PROJECT REFERENCE NO.	SHEET NO.
R-4429C	UT-1
R/W SHEET NO.	

ROADWAY DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 29248 ENGINEER GREGORY C. HEATH
12-1-06

PB PARSONS BRINCKERHOFF

NAD 83

PROP.
109' OF ¾" PE WATER TUBING, SDR 9, 200# WP
2 - 12" X ¾" TAPPING SADDLE
2 - ¾" CORPORATION STOP
CONNECT USING NECESSARY FITTINGS

PROP.
59' OF 6" PVC WATER PIPE, SDR 21, 200# WP
1 - 6" GATE VALVE AND VALVE BOX, 200# WP
1 - 12" X 6" DI TEE
1 - 12" X 6" REDUCER
1 - 6" DI PLUG
CONNECT USING NECESSARY FITTINGS

PROP.
96' OF ¾" PE WATER TUBING, SDR 9, 200# WP
2 - 12" X ¾" TAPPING SADDLES
2 - ¾" CORPORATION STOPS
CONNECT USING NECESSARY FITTINGS

Begin Project
Sta. 441+19.51

POT Sta. 440+67.85

PCSta. 442+91.34

PCSta. 10+00.00

BEGIN CONSTRUCTION
-EY6- STA 10+00.00

PT Sta. 445+96.66

PT Sta. 10+84.52

PCSta. 451+37.26

THOMAS J. HOUSTON
DB 366 PG 797
926

BRIAN E. HUDGINS
DB 395 PG 874
920

BILLY J. WILLIAMS
DB 353 PG 750
912

HARRY R. SEYMOUR
DB 474 PG 039
906

SUSAN COLEMAN KAY
DB 164 PG 159

CHARLES D. JARVIS
DB 243 PG 78

KENNETH R. VAHLE, et ux
DB 380 PG 640

GILBERT ANTHONY HAID, JR, et ux
DB 445 PG 173

MICHEAL L. STINNETTE, JR, et ux
DB 496 PG 454

BARRY JOESPH MELANSON
DB 245 PG 692

SR 1222 TULLS CREEK RD 19' BST

N48°25'15"W

N57°34'50"W

-EL- POT STA 443+61.40
-EY6- POT STA 11+13.61

MATCHLINE STA. 453+00.00 SEE SHEET UT-2

APPROXIMATE LOCATION
PROPOSED 12" WATERLINE
PROJECT R-4429 B

APPROXIMATE LOCATION EXISTING
8" WATERLINE

PROP.
38' OF 12" PVC WATER PIPE
SDR 21, 200# WP
1 - 12" X 6" CROSS
2 - 12" GATE VALVES
PLUG EXISTING 8" WATER PIPE

BEGIN UTILITY CONSTRUCTION PROJECT R-4429 C
-EL- POT STA. 441+38

PROP.
1120' OF 12" PVC WATER PIPE, SDR 21, 200# WP
3 - 12" GATE VALVE AND VALVE BOX, 200# WP

PROP.
18' OF ¾" PE WATER TUBING, SDR 9, 200# WP
1 - 12" X ¾" TAPPING SADDLE
1 - ¾" CORPORATION STOP
CONNECT USING NECESSARY FITTINGS

NOTES:

1. PROPOSED WATERLINE TO BE INSTALLED AS CLOSE TO THE EXISTING RIGHT OF WAY LINE AS POSSIBLE UNLESS OTHERWISE SPECIFIED ON THE PLANS BY STATION AND OFFSET.
2. QUANTITY CALL-OUTS FOR TUBING, TAPPING SADDLES, CORPORATION STOPS, ETC. ARE SHOWN FOR ESTIMATING PURPOSES ONLY. DETERMINATION OF ACTUAL QUANTITIES NEEDED FOR INSTALLATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

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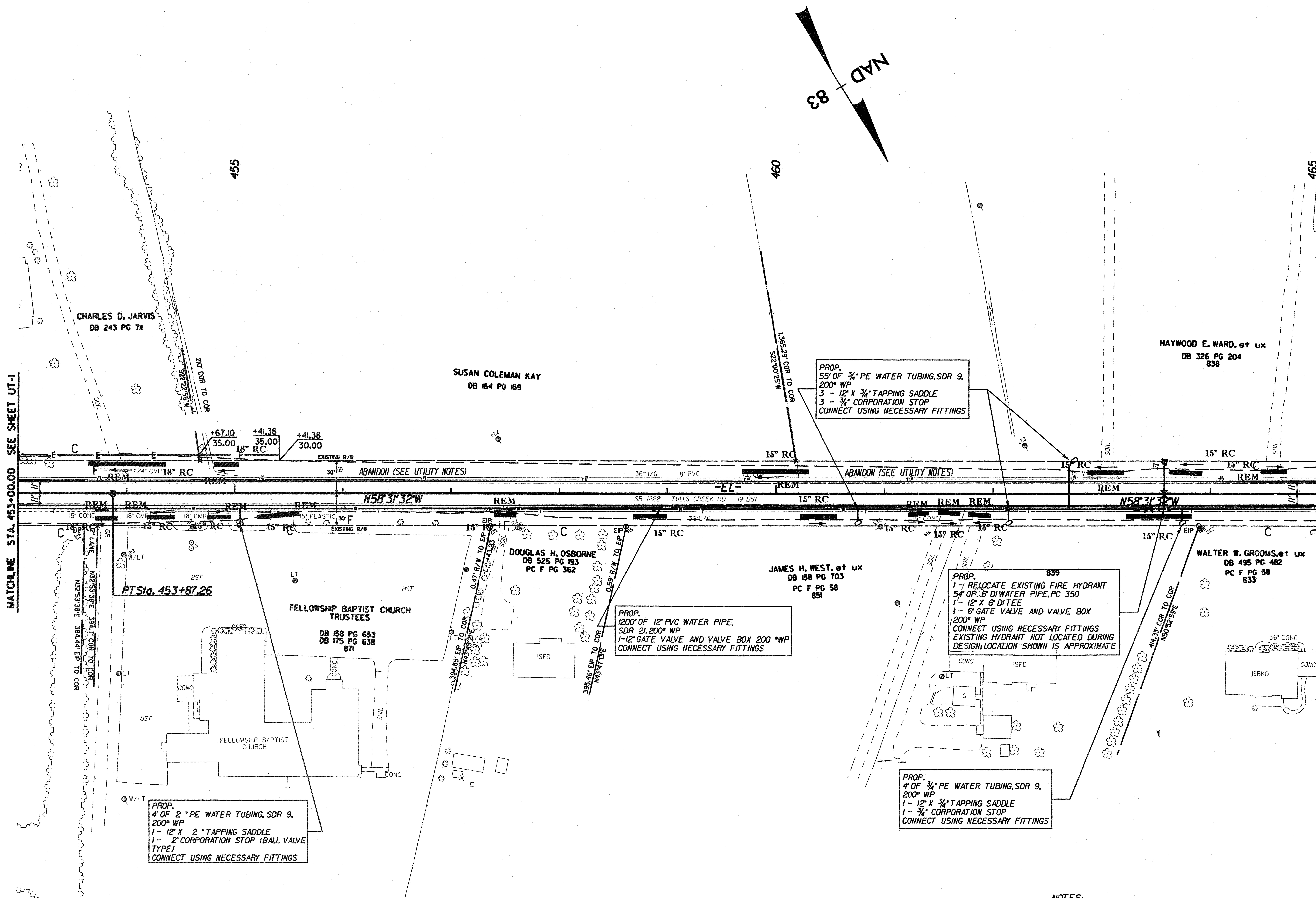
12/5/2006

PROJECT REFERENCE NO.	SHEET NO.
R-4429C	UT-2
R/W SHEET NO.	

ROADWAY DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 29243 GREGORY C. HENTZ 12-11-06

PARSONS BRINCKERHOFF



NAD 83
455
460
465
MATCHLINE STA. 453+00.00 SEE SHEET UT-1
MATCHLINE STA. 465+00.00 SEE SHEET UT-3
CHARLES D. JARVIS
DB 243 PG 711
SUSAN COLEMAN KAY
DB 164 PG 159
HAYWOOD E. WARD, et ux
DB 326 PG 204
838
FELLOWSHIP BAPTIST CHURCH TRUSTEES
DB 158 PG 653
DB 175 PG 638
871
FELLOWSHIP BAPTIST CHURCH
DOUGLAS H. OSBORNE
DB 526 PG 193
PC F PG 362
JAMES H. WEST, et ux
DB 158 PG 703
PC F PG 58
851
WALTER W. GROOMS, et ux
DB 495 PG 482
PC F PG 58
833
PT Sta. 453+87.26
N58°31'32"W
SR 1222 TULLS CREEK RD 19' BST
ABANDON (SEE UTILITY NOTES)
-EL-
PROP.
55' OF ¾" PE WATER TUBING, SDR 9, 200# WP
3 - 12" X ¾" TAPPING SADDLE
3 - ¾" CORPORATION STOP
CONNECT USING NECESSARY FITTINGS
PROP.
1200' OF 12" PVC WATER PIPE, SDR 21, 200# WP
1-12" GATE VALVE AND VALVE BOX 200 #WP
CONNECT USING NECESSARY FITTINGS
PROP.
1 - RELOCATE EXISTING FIRE HYDRANT
54' OF 6" DI WATER PIPE, PC 350
1 - 12" X 6" DI TEE
1 - 6" GATE VALVE AND VALVE BOX 200# WP
CONNECT USING NECESSARY FITTINGS
EXISTING HYDRANT NOT LOCATED DURING DESIGN; LOCATION SHOWN IS APPROXIMATE
PROP.
4' OF 2" PE WATER TUBING, SDR 9, 200# WP
1 - 12" X 2" TAPPING SADDLE
1 - 2" CORPORATION STOP (BALL VALVE TYPE)
CONNECT USING NECESSARY FITTINGS
PROP.
4' OF ¾" PE WATER TUBING, SDR 9, 200# WP
1 - 12" X ¾" TAPPING SADDLE
1 - ¾" CORPORATION STOP
CONNECT USING NECESSARY FITTINGS

NOTES:

1. PROPOSED WATERLINE TO BE INSTALLED AS CLOSE TO THE EXISTING RIGHT OF WAY LINE AS POSSIBLE UNLESS OTHERWISE SPECIFIED ON THE PLANS BY STATION AND OFFSET.
2. QUANTITY CALL-OUTS FOR TUBING, TAPPING SADDLES, CORPORATION STOPS, ETC. ARE SHOWN FOR ESTIMATING PURPOSES ONLY. DETERMINATION OF ACTUAL QUANTITIES NEEDED FOR INSTALLATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

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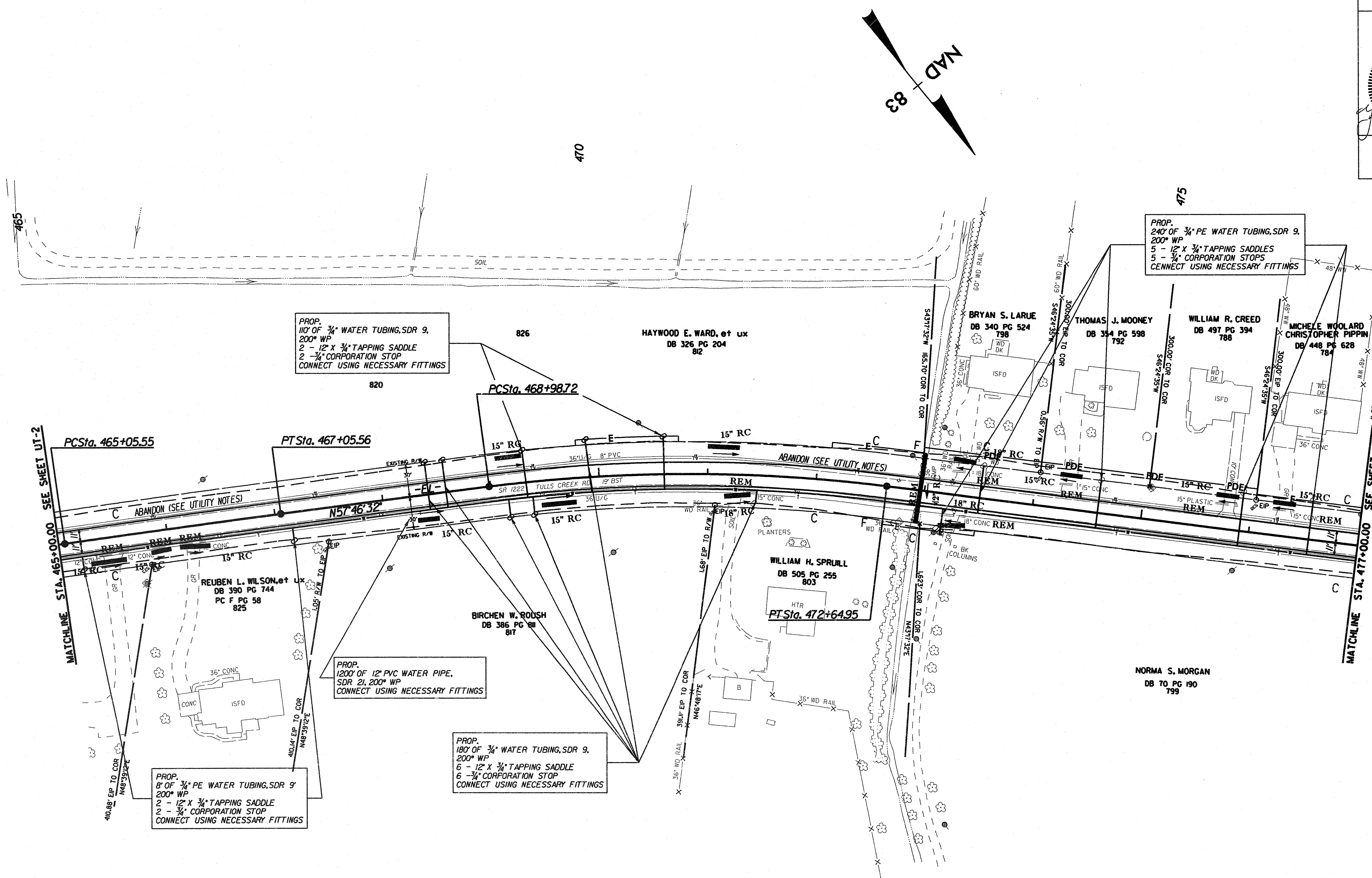
12/5/2006

PROJECT REFERENCE NO.	SHEET NO.
R-4429C	UT-3
R/W SHEET NO.	

ROADWAY DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 29243 ENGINEER GREGORY C. HEWITT 12-11-06

PARSONS BRINCKERHOFF



NAD 83
465
470
475
SOIL
PROP.
110' OF 3/4" WATER TUBING, SDR 9, 200# WP
2 - 12" X 3/4" TAPPING SADDLE
2 - 3/4" CORPORATION STOP
CONNECT USING NECESSARY FITTINGS
820
826
HAYWOOD E. WARD, et ux
DB 326 PG 204
812
PCSta. 468+98.72
PCSta. 465+05.55
PTSta. 467+05.56
ABANDON (SEE UTILITY NOTES)
N57°46'32"
15" RC
REM
SR 1222 TULLS CREEK RD 19' BST
MATCHLINE STA. 465+00.00 SEE SHEET UT-2
REUBEN L. WILSON, et ux
DB 390 PG 744
PC F PG 58
825
BIRCHEN W. ROUSH
DB 386 PG 611
817
PROP.
1200' OF 12" PVC WATER PIPE,
SDR 21, 200# WP
CONNECT USING NECESSARY FITTINGS
PROP.
8' OF 3/4" PE WATER TUBING, SDR 9'
200# WP
2 - 12" X 3/4" TAPPING SADDLE
2 - 3/4" CORPORATION STOP
CONNECT USING NECESSARY FITTINGS
PROP.
180' OF 3/4" WATER TUBING, SDR 9,
200# WP
6 - 12" X 3/4" TAPPING SADDLE
6 - 3/4" CORPORATION STOP
CONNECT USING NECESSARY FITTINGS
WILLIAM H. SPRUILL
DB 505 PG 255
803
PTSta. 472+64.95
PLANTERS
BK COLUMNS
NORMA S. MORGAN
DB 70 PG 190
799
PROP.
240' OF 3/4" PE WATER TUBING, SDR 9,
200# WP
5 - 12" X 3/4" TAPPING SADDLES
5 - 3/4" CORPORATION STOPS
CENNECT USING NECESSARY FITTINGS
BRYAN S. LARUE
DB 340 PG 524
798
THOMAS J. MOONEY
DB 354 PG 598
792
WILLIAM R. CREED
DB 497 PG 394
786
MICHELE WOOLARD
CHRISTOPHER PIPPIN
DB 448 PG 628
784
ISFD
PDE
18" RC
MATCHLINE STA. 477+00.00 SEE SHEET UT-4

NOTES:

1. PROPOSED WATERLINE TO BE INSTALLED AS CLOSE TO THE EXISTING RIGHT OF WAY LINE AS POSSIBLE UNLESS OTHERWISE SPECIFIED ON THE PLANS BY STATION AND OFFSET.

2. QUANTITY CALL-OUTS FOR TUBING, TAPPING SADDLES, CORPORATION STOPS, ETC. ARE SHOWN FOR ESTIMATING PURPOSES ONLY. DETERMINATION OF ACTUAL QUANTITIES NEEDED FOR INSTALLATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

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12/5/2006

PROJECT REFERENCE NO.	SHEET NO.
R-4429C	UT-4
R/W SHEET NO.	

ROADWAY DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 29243 ENGINEER GREGORY C. HERR
12/1/06

PB PARSONS BRINCKERHOFF

NAD 83

MATCHLINE STA. 477+00.00 SEE SHEET UT-3

MATCHLINE STA. 490+00.00 SEE SHEET UT-5

480 485 490

PROP.
415' OF ¾" PEA WATER TUBING, SDR 9, 200# WPM
7 - 12" X ¾" TAPPING SADDLES
7 - ¾" CORPORATION STOPS
CONNECT USING NECESSARY FITTINGS

PROP.
305' OF ¾" PE WATER TUBING, SDR 9, 200# WP
6 - 12" X ¾" TAPPING SADDLES
6 - ¾" CORPORATION STOPS
CONNECT USING NECESSARY FITTINGS

VINCENT C. NIXON
DB 384 PG 205
780

ELVIN L. LINDSEY, et ux
DB 429 PG 758
776

DIANA M. FASSEL
DORIS SPICER
DB 463 PG 828
772

JAMES E. YOUNG, et ux
DB 403 PG 288
768

MARK GRAHAM, et ux
DB 330 PG 466
764

RODNEY O. MIDGETTE, et ux
DB 388 PG 111
760

DONALD M. LETNER
DB 373 PG 274
756

CLARENCE O. WHITE, et ux
DB 284 PG 849
752

MARGARET M. GARRETT
MARK GARRETT TRUSTEE
DB 360 PG 197
748

HOWARD F. DAVIS
DB 400 PG 498
744

GORDEN E. BEACH
DB 387 PG 459
740

WENDELL P. RAWSON, et ux
DB 358 PG 801
736

HAYWOOD E. WARD
DB 209 PG 494
PC D SL 216

NORMA S. MORGAN
DB 70 PG 190
749

NORMA S. MORGAN
DB 70 PG 190
749

PROP.
1 - RELOCATE EXISTING FIRE HYDRANT
54' OF 6" DIWATER PIPE, PC 350
1 - 12" X 6" DITEE
1 - 6" GATE VALVE AND VALVE BOX 200# WP
CONNECT USING NECESSARY FITTINGS
EXISTING HYDRANT NOT LOCATED DURING DESIGN; LOCATION SHOWN IS APPROXIMATE

PROP.
1300' OF 12" PVC WATER PIPE, SDR 21, 200# WP
1-12" GATE VALVE AND VALVE BOX 200 #WP
CONNECT USING NECESSARY FITTINGS

ABANDON (SEE UTILITY NOTES)

SR 1222 TULLS CREEK RD

PCSta. 488+92.61

NOTES:

1. PROPOSED WATERLINE TO BE INSTALLED AS CLOSE TO THE EXISTING RIGHT OF WAY LINE AS POSSIBLE UNLESS OTHERWISE SPECIFIED ON THE PLANS BY STATION AND OFFSET.

2. QUANTITY CALL-OUTS FOR TUBING, TAPPING SADDLES, CORPORATION STOPS, ETC. ARE SHOWN FOR ESTIMATING PURPOSES ONLY. DETERMINATION OF ACTUAL QUANTITIES NEEDED FOR INSTALLATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

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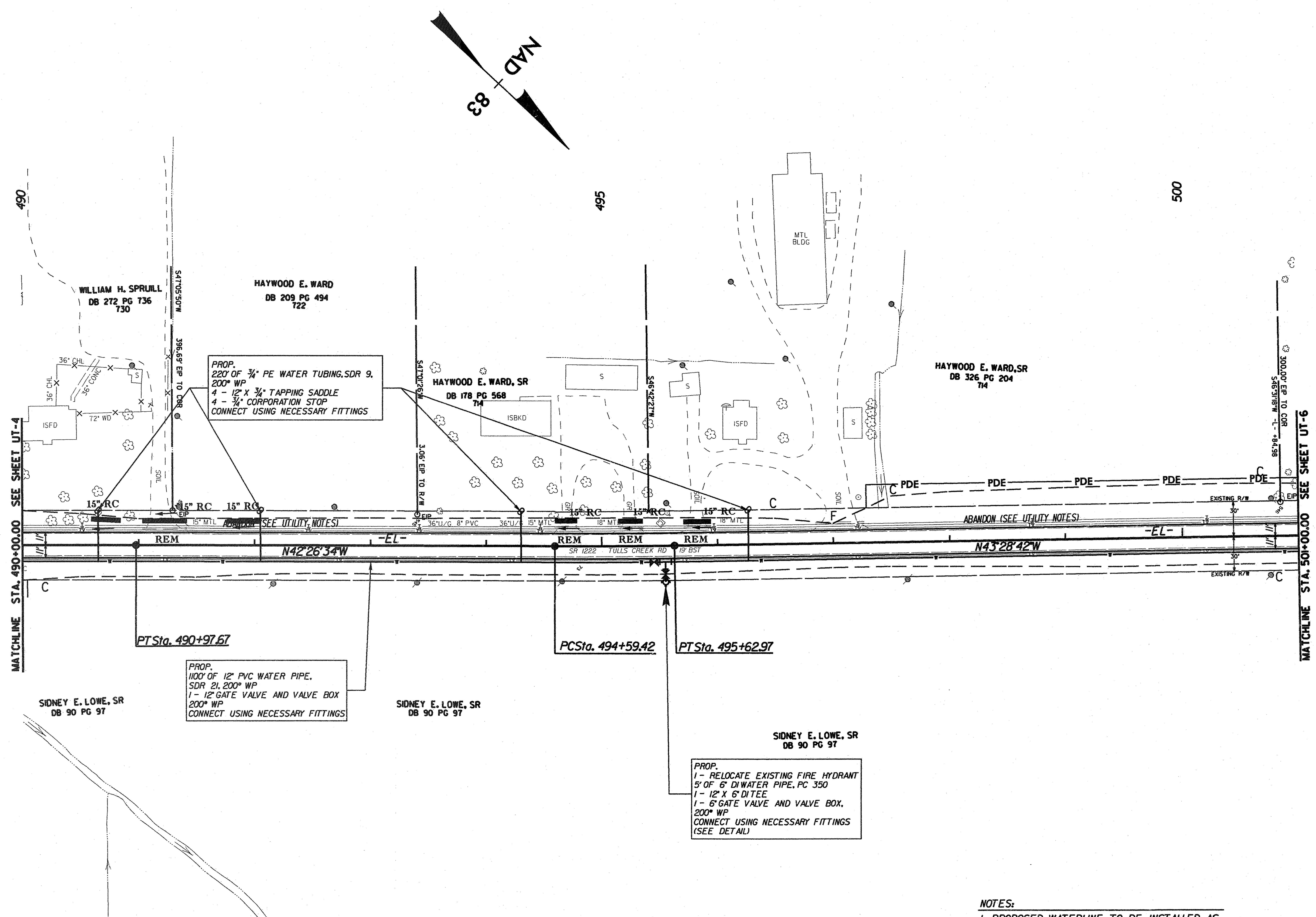
12/6/2006

PROJECT REFERENCE NO.	SHEET NO.
R-4429C	UT-5
R/W SHEET NO.	

ROADWAY DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 29243 ENGINEER GREGORY C. HEINEY 12-11-06

PARSONS BRINCKERHOFF



NOTES:

1. PROPOSED WATERLINE TO BE INSTALLED AS CLOSE TO THE EXISTING RIGHT OF WAY LINE AS POSSIBLE UNLESS OTHERWISE SPECIFIED ON THE PLANS BY STATION AND OFFSET.
2. QUANTITY CALL-OUTS FOR TUBING, TAPPING SADDLES, CORPORATION STOPS, ETC. ARE SHOWN FOR ESTIMATING PURPOSES ONLY. DETERMINATION OF ACTUAL QUANTITIES NEEDED FOR INSTALLATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

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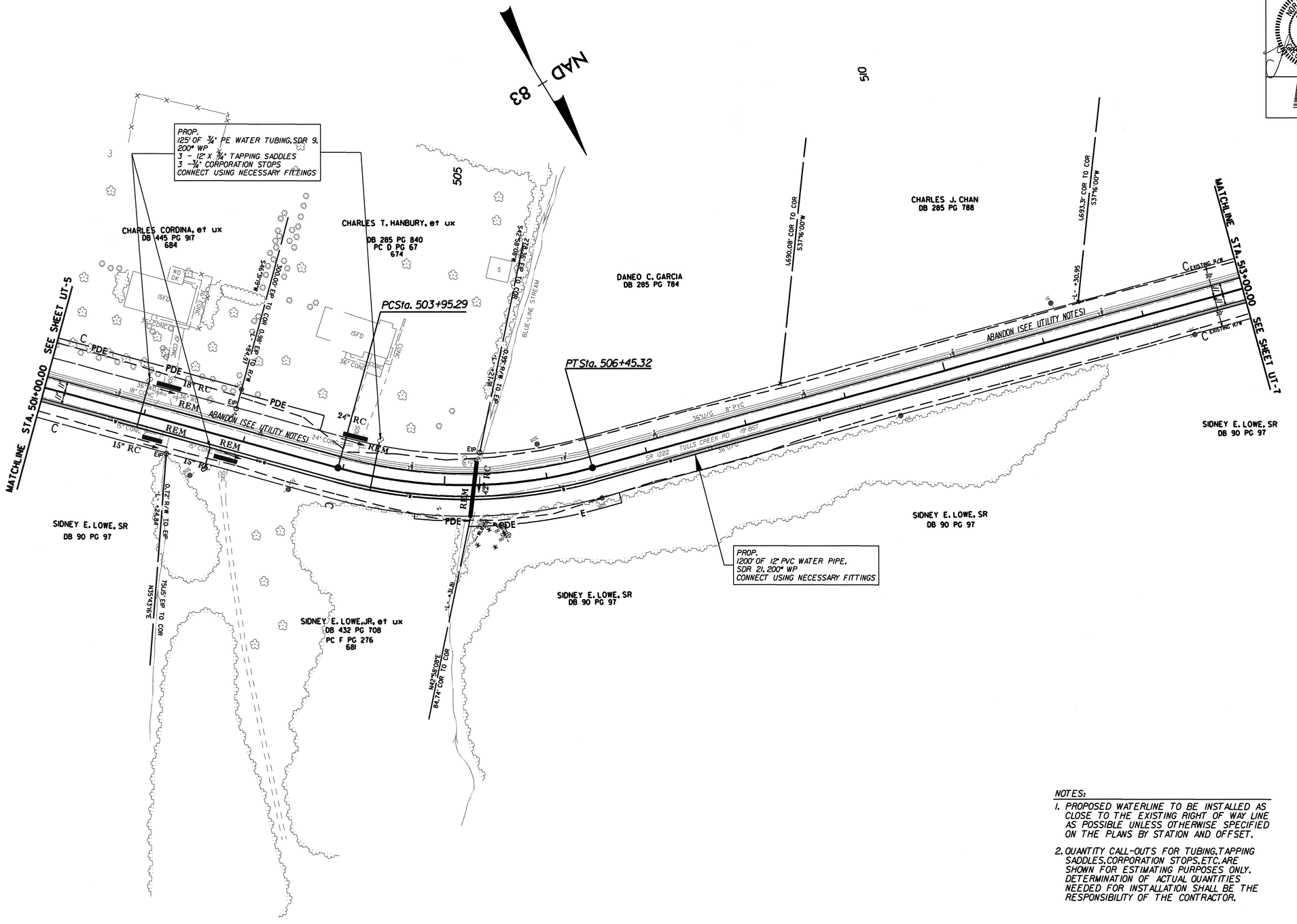
12/5/2006

PROJECT REFERENCE NO.	SHEET NO.
R-4429C	UT-6
R/W SHEET NO.	

ROADWAY DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 29243 ENGINEER GREGORY C KENT
3-1-07

PB PARSONS BRINCKERHOFF



NOTES:

1. PROPOSED WATERLINE TO BE INSTALLED AS CLOSE TO THE EXISTING RIGHT OF WAY LINE AS POSSIBLE UNLESS OTHERWISE SPECIFIED ON THE PLANS BY STATION AND OFFSET.
2. QUANTITY CALL-OUTS FOR TUBING, TAPPING SADDLES, CORPORATION STOPS, ETC. ARE SHOWN FOR ESTIMATING PURPOSES ONLY. DETERMINATION OF ACTUAL QUANTITIES NEEDED FOR INSTALLATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

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2/26/2007

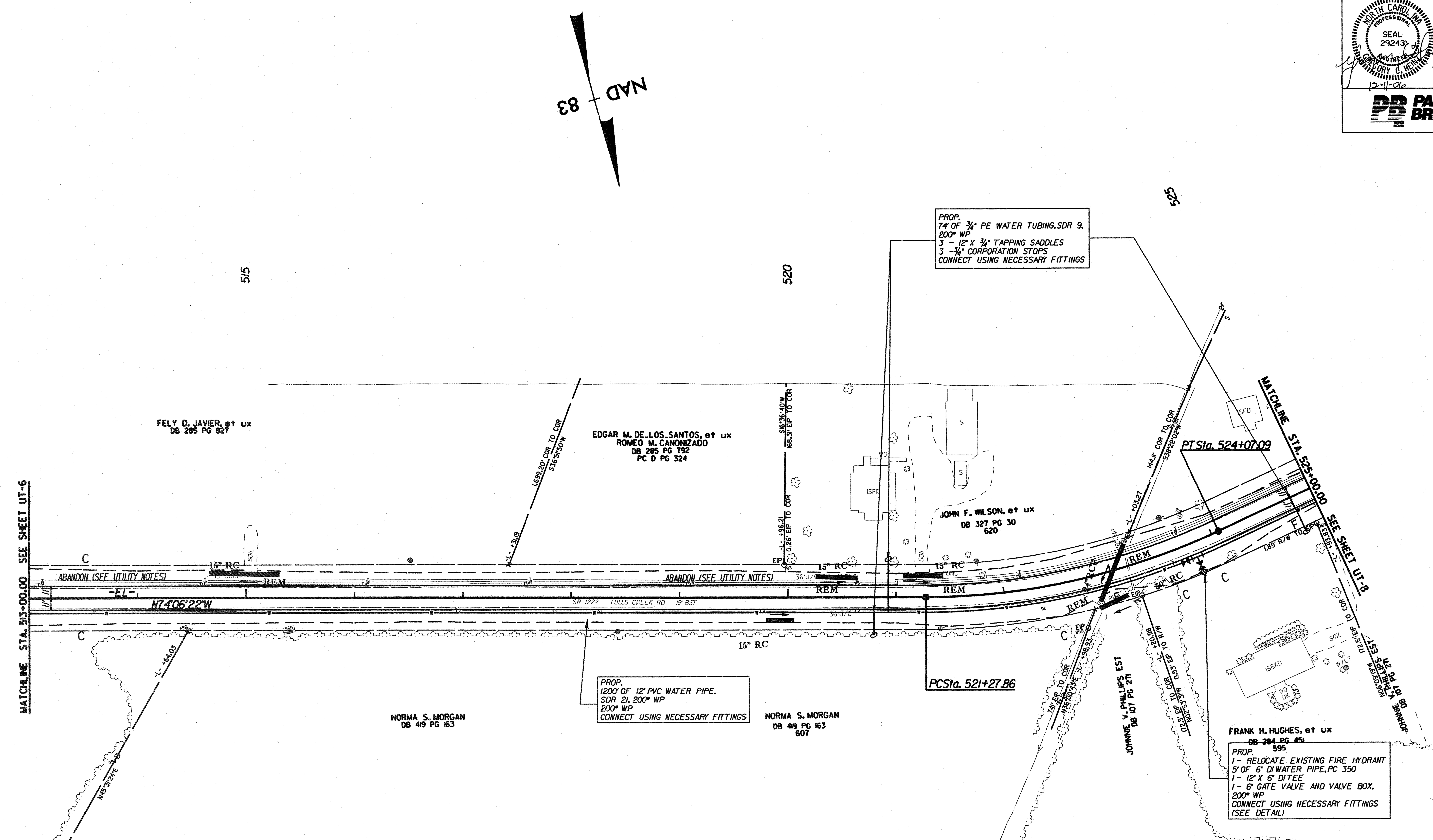
PROJECT REFERENCE NO.	SHEET NO.
R-4429C	UT-7
R/W SHEET NO.	

ROADWAY DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 29243 GREGORY C. HEINZ

12-11-06

PARSONS BRINCKERHOFF



NAD 83
515
520
525
MATCHLINE STA. 513+00.00 SEE SHEET UT-6
MATCHLINE STA. 525+00.00 SEE SHEET UT-8
FELY D. JAVIER, et ux
DB 285 PG 827
EDGAR M. DE.LOS.SANTOS, et ux
ROMEO M. CANONIZADO
DB 285 PG 792
PC D PG 324
JOHN F. WILSON, et ux
DB 327 PG 30
620
NORMA S. MORGAN
DB 419 PG 163
NORMA S. MORGAN
DB 419 PG 163
607
JOHNNIE V. PHILLIPS EST
DB 107 PG 271
FRANK H. HUGHES, et ux
DB 284 PG 451
595
-EL-
N74°06'22"W
SR 1222 TULLS CREEK RD 19' BST
ABANDON (SEE UTILITY NOTES)
ABANDON (SEE UTILITY NOTES)
15" RC
REM
PT Sta. 524+07.09
PC Sta. 521+27.86
PROP.
74' OF ¾" PE WATER TUBING, SDR 9.
200# WP
3 - 12" X ¾" TAPPING SADDLES
3 - ¾" CORPORATION STOPS
CONNECT USING NECESSARY FITTINGS
PROP.
1200' OF 12" PVC WATER PIPE.
SDR 21, 200# WP
200# WP
CONNECT USING NECESSARY FITTINGS
PROP.
1 - RELOCATE EXISTING FIRE HYDRANT
5' OF 6" DI WATER PIPE, PC 350
1 - 12" X 6" DI TEE
1 - 6" GATE VALVE AND VALVE BOX.
200# WP
CONNECT USING NECESSARY FITTINGS
(SEE DETAIL)

NOTES:

1. PROPOSED WATERLINE TO BE INSTALLED AS CLOSE TO THE EXISTING RIGHT OF WAY LINE AS POSSIBLE UNLESS OTHERWISE SPECIFIED ON THE PLANS BY STATION AND OFFSET.

2. QUANTITY CALL-OUTS FOR TUBING, TAPPING SADDLES, CORPORATION STOPS, ETC. ARE SHOWN FOR ESTIMATING PURPOSES ONLY. DETERMINATION OF ACTUAL QUANTITIES NEEDED FOR INSTALLATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

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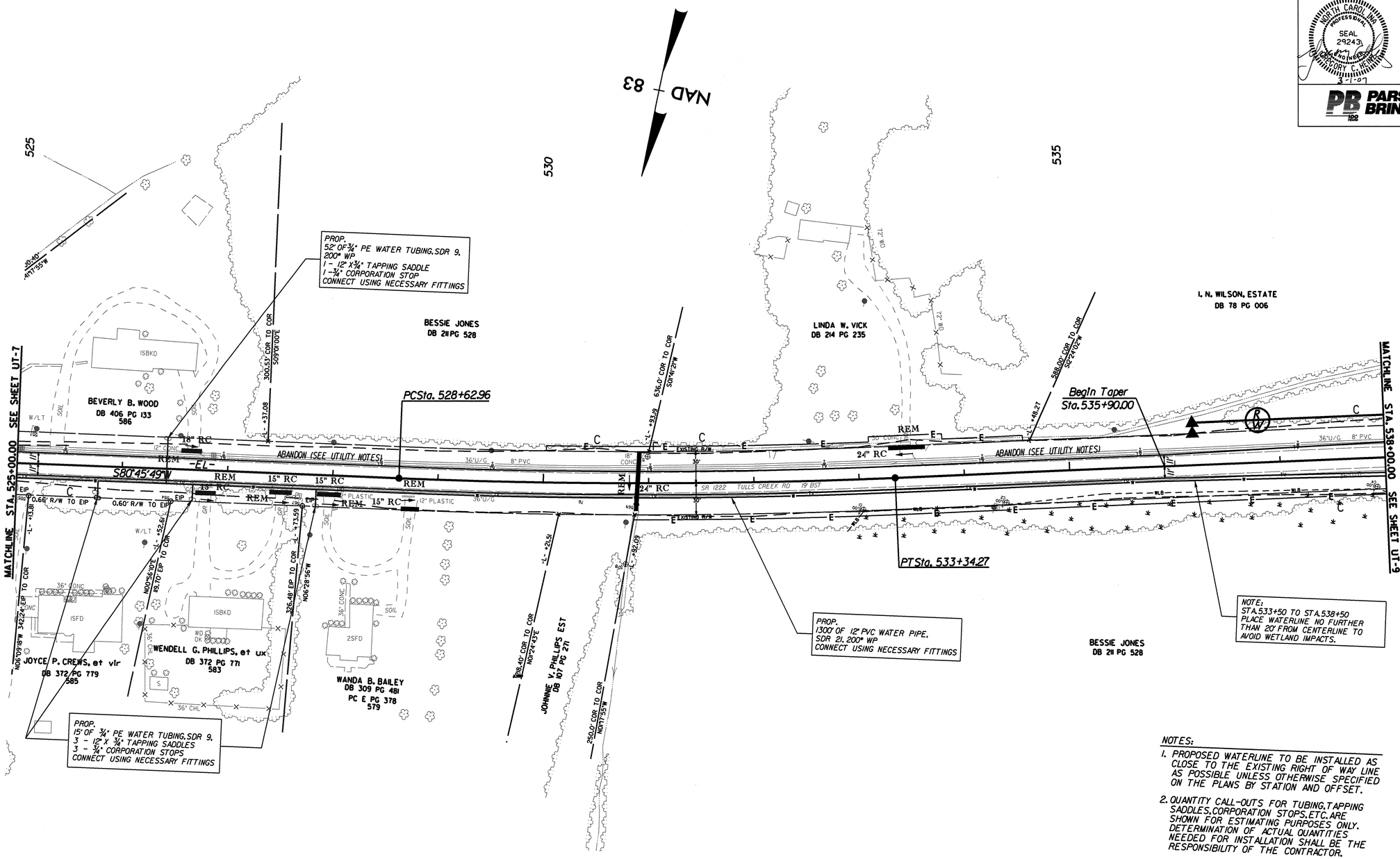
12/6/2006

PROJECT REFERENCE NO.	SHEET NO.
R-4429C	UT-8
R/W SHEET NO.	

ROADWAY DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 29243 ENGINEER GREGORY C. HOWARD
3-1-07

PB 122 PARSONS BRINCKERHOFF



NOTES:

1. PROPOSED WATERLINE TO BE INSTALLED AS CLOSE TO THE EXISTING RIGHT OF WAY LINE AS POSSIBLE UNLESS OTHERWISE SPECIFIED ON THE PLANS BY STATION AND OFFSET.
2. QUANTITY CALL-OUTS FOR TUBING, TAPPING SADDLES, CORPORATION STOPS, ETC. ARE SHOWN FOR ESTIMATING PURPOSES ONLY. DETERMINATION OF ACTUAL QUANTITIES NEEDED FOR INSTALLATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

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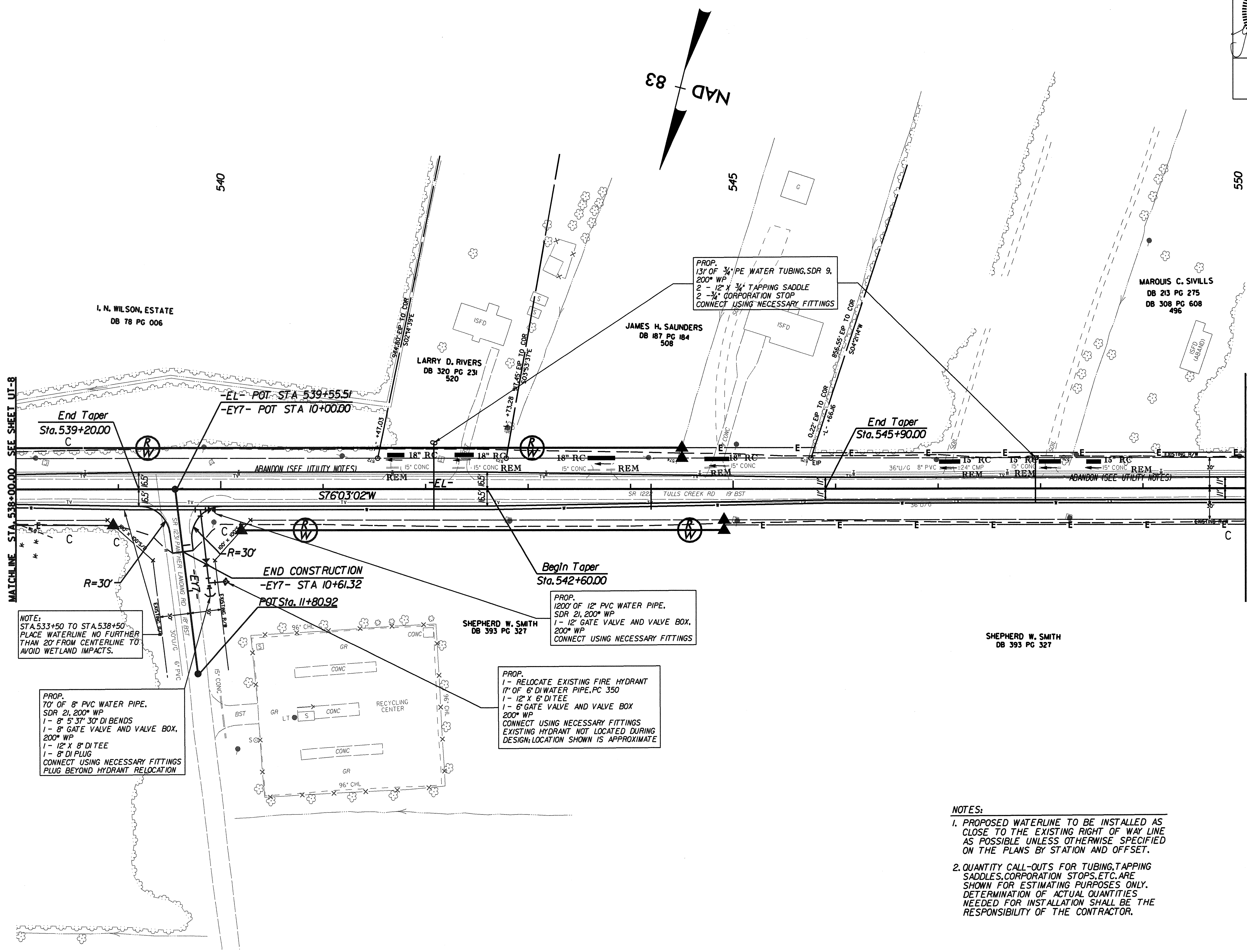
2/26/2007

PROJECT REFERENCE NO.	SHEET NO.
R-4429C	UT-9
R/W SHEET NO.	___

ROADWAY DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 29243 GREGORY C. HEINS 3-1-07

PARSONS BRINCKERHOFF



NAD 83
540
545
550
I. N. WILSON, ESTATE
DB 78 PG 006
LARRY D. RIVERS
DB 320 PG 231
520
JAMES H. SAUNDERS
DB 187 PG 184
508
MARQUIS C. SIVILLS
DB 213 PG 275
DB 308 PG 608
496
SHEPHERD W. SMITH
DB 393 PG 327
SHEPHERD W. SMITH
DB 393 PG 327
MATCHLINE STA. 538+00.00 SEE SHEET UT-8
MATCHLINE STA. 550+00.00 SEE SHEET UT-10
End Taper
Sta.539+20.00
-EL- POT STA 539+55.51
-EY7- POT STA 10+00.00
End Taper
Sta.545+90.00
Begin Taper
Sta.542+60.00
END CONSTRUCTION
-EY7- STA 10+61.32
POT Sta. 11+80.92
R=30'
R=30'
-EL-
-EY7-
S76°03'02"W
SR 1222 TULLS CREEK RD 19' BST
SR 1231 PANTHER LANDING RD
ABANDON (SEE UTILITY NOTES)
ABANDON (SEE UTILITY NOTES)
18" RC
15" RC
REM
RECYCLING CENTER
96" CHL
CONC
GR
BST
ISFD
ISFD (ABAND)
PROP.
131' OF 3/4" PE WATER TUBING, SDR 9, 200# WP
2 - 12" X 3/4" TAPPING SADDLE
2 - 3/4" CORPORATION STOP
CONNECT USING NECESSARY FITTINGS
PROP.
1200' OF 12" PVC WATER PIPE, SDR 21, 200# WP
1 - 12" GATE VALVE AND VALVE BOX, 200# WP
CONNECT USING NECESSARY FITTINGS
PROP.
1 - RELOCATE EXISTING FIRE HYDRANT
17' OF 6" DI WATER PIPE, PC 350
1 - 12" X 6" DI TEE
1 - 6" GATE VALVE AND VALVE BOX 200# WP
CONNECT USING NECESSARY FITTINGS
EXISTING HYDRANT NOT LOCATED DURING DESIGN; LOCATION SHOWN IS APPROXIMATE
PROP.
70' OF 8" PVC WATER PIPE, SDR 21, 200# WP
1 - 8" 5°37' 30" DI BENDS
1 - 8" GATE VALVE AND VALVE BOX, 200# WP
1 - 12" X 8" DI TEE
1 - 8" DI PLUG
CONNECT USING NECESSARY FITTINGS
PLUG BEYOND HYDRANT RELOCATION
NOTE:
STA.533+50 TO STA.538+50 PLACE WATERLINE NO FURTHER THAN 20' FROM CENTERLINE TO AVOID WETLAND IMPACTS.

NOTES:

1. PROPOSED WATERLINE TO BE INSTALLED AS CLOSE TO THE EXISTING RIGHT OF WAY LINE AS POSSIBLE UNLESS OTHERWISE SPECIFIED ON THE PLANS BY STATION AND OFFSET.
2. QUANTITY CALL-OUTS FOR TUBING, TAPPING SADDLES, CORPORATION STOPS, ETC. ARE SHOWN FOR ESTIMATING PURPOSES ONLY. DETERMINATION OF ACTUAL QUANTITIES NEEDED FOR INSTALLATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

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2/26/2007

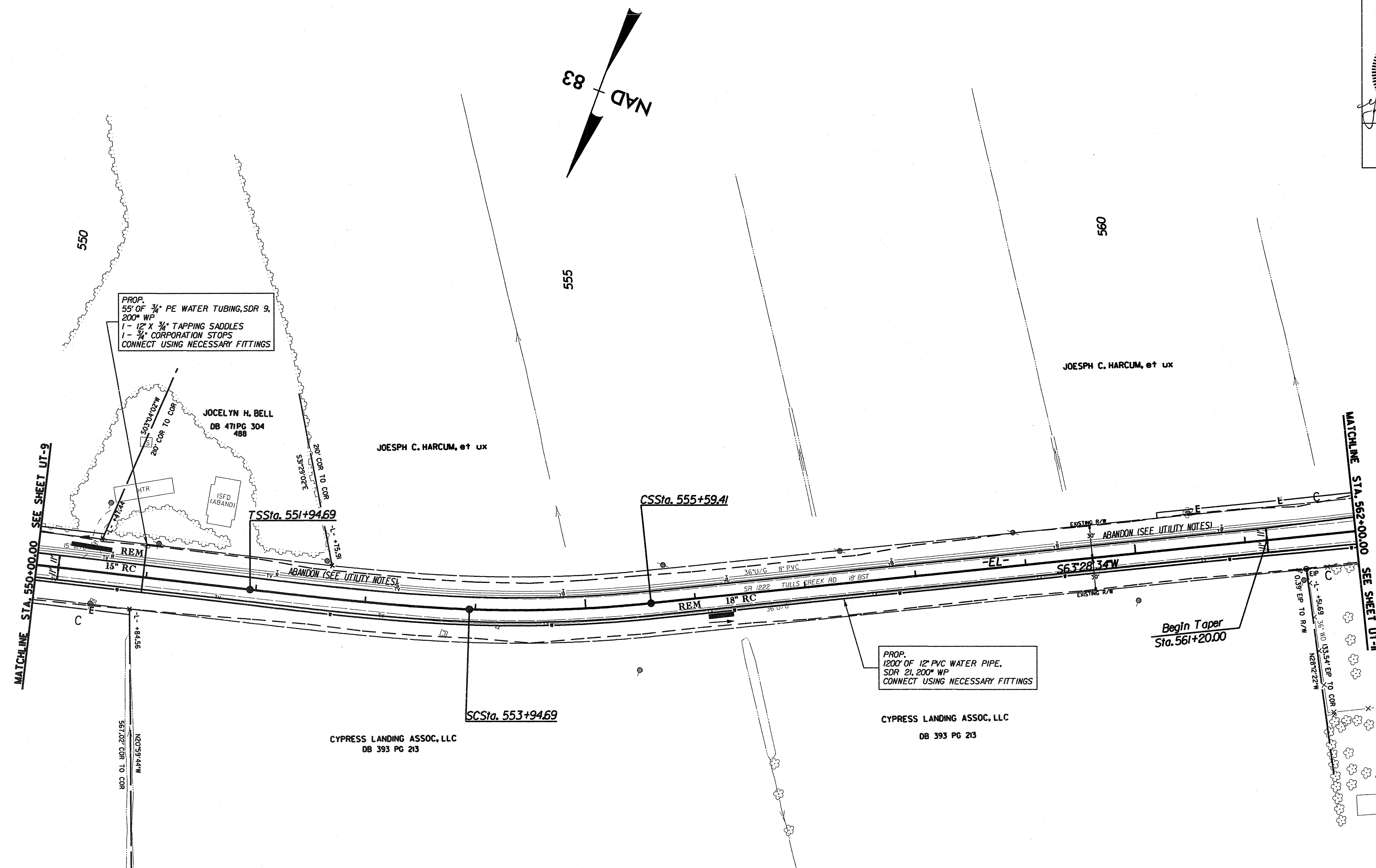
PROJECT REFERENCE NO.	SHEET NO.
R-4429C	UT-10
R/W SHEET NO.	

ROADWAY DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 29243 ENGINEER GREGORY C. HENRY

12-11-06

PARSONS BRINCKERHOFF



NAD 83
550
555
560
PROP.
55' OF 3/4" PE WATER TUBING, SDR 9, 200# WP
1 - 12" X 3/4" TAPPING SADDLES
1 - 3/4" CORPORATION STOPS
CONNECT USING NECESSARY FITTINGS
JOCELYN H. BELL
DB 471 PG 304 488
JOESPH C. HARCUM, et ux
HTR
ISFD (ABAND)
TSSta. 551+94.69
CSSta. 555+59.41
SCSta. 553+94.69
MATCHLINE STA. 550+00.00 SEE SHEET UT-9
MATCHLINE STA. 562+00.00 SEE SHEET UT-11
REM
15" RC
18" RC
ABANDON (SEE UTILITY NOTES)
EXISTING R/W
-EL-
S63°28'34"W
SR 1222 TULLS CREEK RD 18' BST
36"U/G 8" PVC
Begin Taper
Sta. 561+20.00
PROP.
1200' OF 12" PVC WATER PIPE,
SDR 21, 200# WP
CONNECT USING NECESSARY FITTINGS
CYPRESS LANDING ASSOC., LLC
DB 393 PG 213
S67°02'22"E
N20°59'44"W
567.02' COR TO COR
20' COR TO COR
-L- +84.56
-L- +75.91
-L- +51.69
N28°12'22"W

NOTES:

1. PROPOSED WATERLINE TO BE INSTALLED AS CLOSE TO THE EXISTING RIGHT OF WAY LINE AS POSSIBLE UNLESS OTHERWISE SPECIFIED ON THE PLANS BY STATION AND OFFSET.
2. QUANTITY CALL-OUTS FOR TUBING, TAPPING SADDLES, CORPORATION STOPS, ETC. ARE SHOWN FOR ESTIMATING PURPOSES ONLY. DETERMINATION OF ACTUAL QUANTITIES NEEDED FOR INSTALLATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

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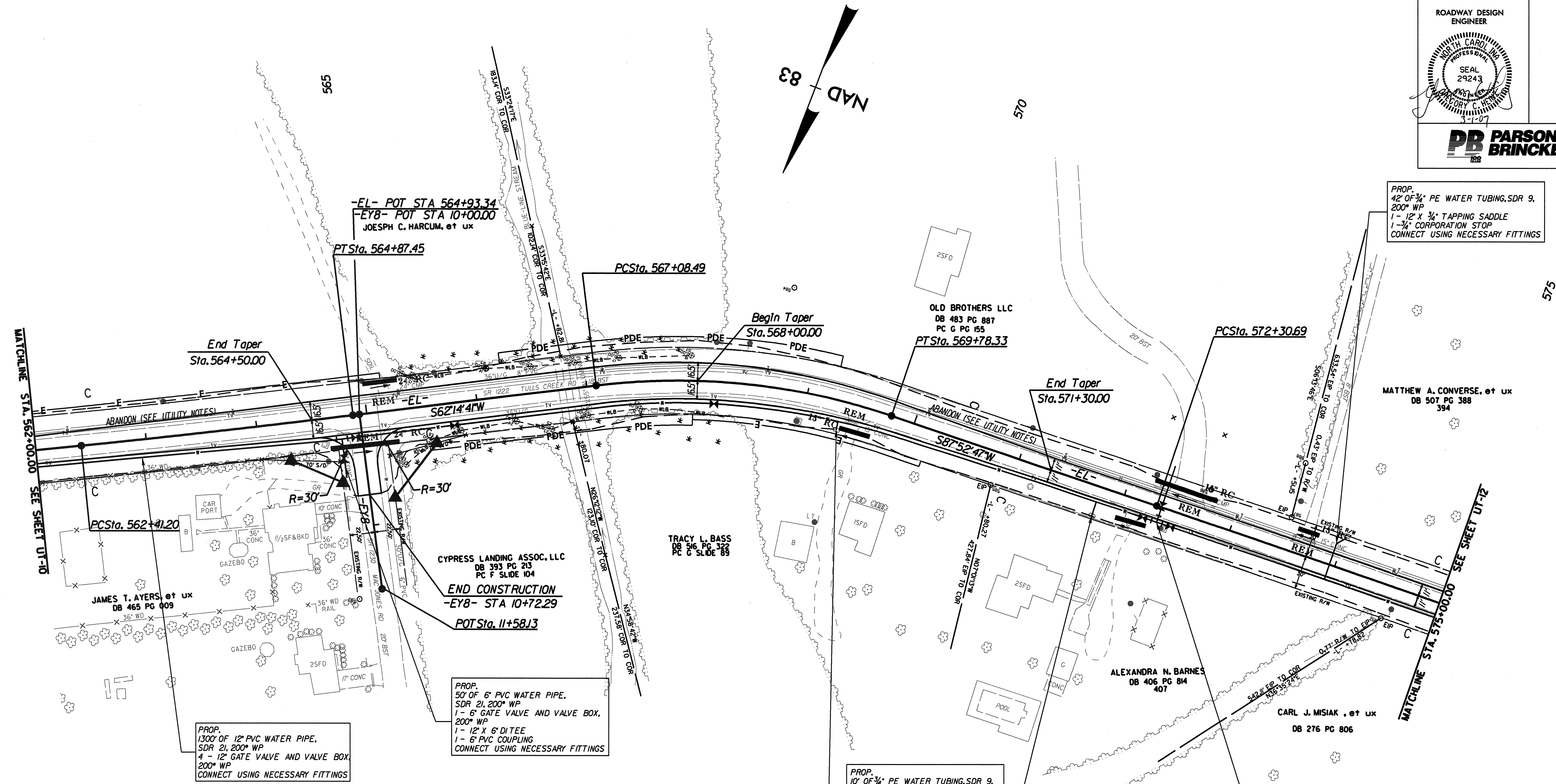
12/5/2006

PROJECT REFERENCE NO.	SHEET NO.
R-4429C	UT-11
R/W SHEET NO.	

ROADWAY DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 29243 GREGORY C. HEIN 3-1-07

PARSONS BRINCKERHOFF



NAD 83
565
570
575
MATCHLINE STA. 562+00.00 SEE SHEET UT-10
MATCHLINE STA. 575+00.00 SEE SHEET UT-12
-EL- POT STA 564+93.34
-EY8- POT STA 10+00.00
JOESPH C. HARCUM, et ux
PT Sta. 564+87.45
PC Sta. 567+08.49
Begin Taper Sta. 568+00.00
PT Sta. 569+78.33
PC Sta. 572+30.69
End Taper Sta. 564+50.00
End Taper Sta. 571+30.00
S62°14'41"W
S87°52'42"W
ABANDON (SEE UTILITY NOTES)
SR 1222 TULLS CREEK RD
PC Sta. 562+41.20
R=30'
END CONSTRUCTION
-EY8- STA 10+72.29
POT Sta. 11+58.13
CYPRESS LANDING ASSOC. LLC DB 393 PG 213 PC F SLIDE 104
TRACY L. BASS DB 516 PG 322 PC G SLIDE 89
OLD BROTHERS LLC DB 483 PG 887 PC G PG 155
MATTHEW A. CONVERSE, et ux DB 507 PG 388 394
ALEXANDRA N. BARNES DB 406 PG 814 407
CARL J. MISIAK, et ux DB 276 PG 806
JAMES T. AYERS, et ux DB 465 PG 009
PROP. 1300' OF 12" PVC WATER PIPE, SDR 21, 200# WP 4 - 12" GATE VALVE AND VALVE BOX, 200# WP CONNECT USING NECESSARY FITTINGS
PROP. 50' OF 6" PVC WATER PIPE, SDR 21, 200# WP 1 - 6" GATE VALVE AND VALVE BOX, 200# WP 1 - 12" X 6" DI TEE 1 - 6" PVC COUPLING CONNECT USING NECESSARY FITTINGS
PROP. 10' OF 3/4" PE WATER TUBING, SDR 9, 200# WP 2 - 12" X 3/4" TAPPING SADDLE 2 - 3/4" CORPORATION STOP CONNECT USING NECESSARY FITTINGS
PROP. 64' OF 6" PVC WATER PIPE, SDR 21, 200# WP 1 - 6" GATE VALVE AND VALVE BOX, 200# WP 1 - 12" X 6" DI TEE 2 - 12" VALVE AND VALVE BOXE CONNECT USING NECESSARY FITTINGS
PROP. 42' OF 3/4" PE WATER TUBING, SDR 9, 200# WP 1 - 12" X 3/4" TAPPING SADDLE 1 - 3/4" CORPORATION STOP CONNECT USING NECESSARY FITTINGS

NOTES:

1. PROPOSED WATERLINE TO BE INSTALLED AS CLOSE TO THE EXISTING RIGHT OF WAY LINE AS POSSIBLE UNLESS OTHERWISE SPECIFIED ON THE PLANS BY STATION AND OFFSET.
2. QUANTITY CALL-OUTS FOR TUBING, TAPPING SADDLES, CORPORATION STOPS, ETC. ARE SHOWN FOR ESTIMATING PURPOSES ONLY. DETERMINATION OF ACTUAL QUANTITIES NEEDED FOR INSTALLATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

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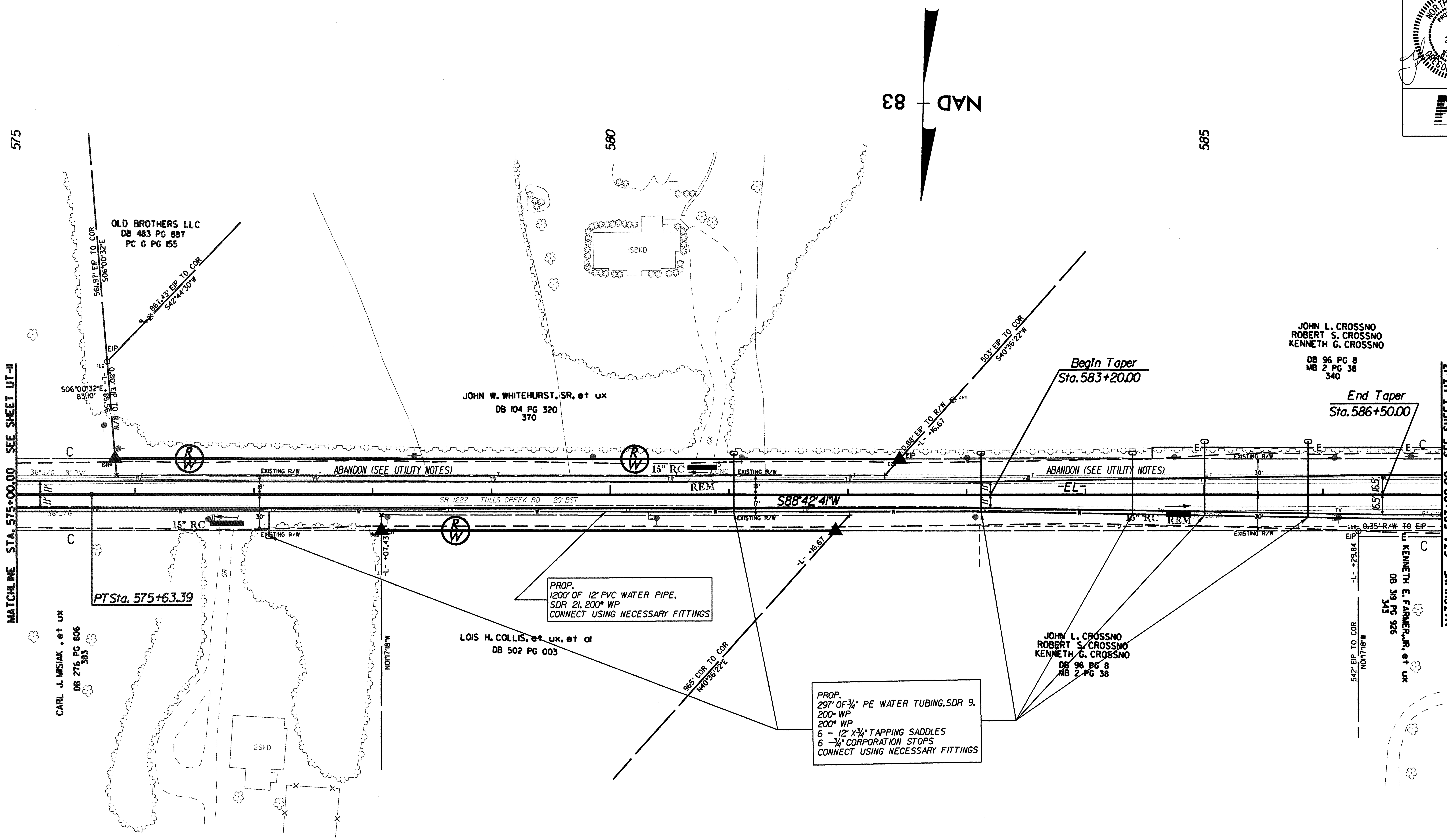
2/26/2007

PROJECT REFERENCE NO.	SHEET NO.
R-4429C	UT-12
R/W SHEET NO.	

ROADWAY DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 29243 ENGINEER GREGORY C. HEINTZ 3-1-07

PARSONS BRINCKERHOFF



NAD 83
575
580
585
MATCHLINE STA. 575+00.00 SEE SHEET UT-11
MATCHLINE STA. 587+00.00 SEE SHEET UT-13
OLD BROTHERS LLC
DB 483 PG 887
PC G PG 155
JOHN W. WHITEHURST, SR. et ux
DB 104 PG 320
370
JOHN L. CROSSNO
ROBERT S. CROSSNO
KENNETH G. CROSSNO
DB 96 PG 8
MB 2 PG 38
340
Begin Taper
Sta. 583+20.00
End Taper
Sta. 586+50.00
ABANDON (SEE UTILITY NOTES)
EXISTING R/W
SR 1222 TULLS CREEK RD 20' BST
S88°42'41"W
-EL-
15" RC
REM
PT Sta. 575+63.39
PROP.
1200' OF 12" PVC WATER PIPE,
SDR 21, 200# WP
CONNECT USING NECESSARY FITTINGS
LOIS H. COLLIS, et ux, et al
DB 502 PG 003
CARL J. MISIAK, et ux
DB 276 PG 806
383
PROP.
297' OF 3/4" PE WATER TUBING, SDR 9,
200# WP
200# WP
6 - 12" X 3/4" TAPPING SADDLES
6 - 3/4" CORPORATION STOPS
CONNECT USING NECESSARY FITTINGS
JOHN L. CROSSNO
ROBERT S. CROSSNO
KENNETH G. CROSSNO
DB 96 PG 8
MB 2 PG 38
KENNETH E. FARMER, JR. et ux
DB 39 PG 926
343
1SBKD
2SFD

NOTES:

1. PROPOSED WATERLINE TO BE INSTALLED AS CLOSE TO THE EXISTING RIGHT OF WAY LINE AS POSSIBLE UNLESS OTHERWISE SPECIFIED ON THE PLANS BY STATION AND OFFSET.
2. QUANTITY CALL-OUTS FOR TUBING, TAPPING SADDLES, CORPORATION STOPS, ETC. ARE SHOWN FOR ESTIMATING PURPOSES ONLY. DETERMINATION OF ACTUAL QUANTITIES NEEDED FOR INSTALLATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

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PROJECT REFERENCE NO.	SHEET NO.
R-4429C	UT-13
R/W SHEET NO.	

ROADWAY DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 29243 ENGINEER GREGORY C. PENNINGTON
5-1-07

PB PARSONS BRINCKERHOFF

NAD - 83

CEMETERY

SR 1222 SAWYER TOWN RD 18' BST

590

595

10

WESLEY E. MCPHERSON, JR, et ux
DB 292 PG 185
318

CHRISTIAN HOME BAPTIST CHURCH
DB 33 PG 279
326

PILGRIM JOURNEY A.M.E. ZION CHURCH

GRACE O. POYNER
DB 62 PG 362
ESTATE FILE 87-E-37

KENNETH E. FARMER, JR, et ux
DB 39 PG 926
343

JOHN L. CROSSNO, et ux
DB 96 PG 8

PROP.
65' OF 10" PVC WATER PIPE,
SDR 21, 200# WP
1 - 10" GATE VALVE AND VALVE BOX,
200# WP
1 - 12" X 10" DI TEE
CONNECT USING NECESSARY FITTINGS

PROP.
158' OF ¾" PE WATER TUBING, SDR 9,
200# WP
3 - 12" X ¾" TAPPING SADDLES
3 - ¾" CORPORATION STOPS
CONNECT USING NECESSARY FITTINGS

POT Sta. 10+00.00

BEGIN CONSTRUCTION
-EY9- STA 11+15.94

R=30'

R=30'

-EY9-

-EL- POT STA 589+51.72
-EY9- POT STA 11+76.85

BEGIN TAPER
Sta. 592+15.00

END TAPER
Sta. 595+45.00

-EL- PC Sta. 593+15.18

-EL- PT Sta. 594+32.23

PROP.
76' OF ¾" PE WATER TUBING, SDR 9,
200# WP
2 - 12" X ¾" TAPPING SADDLES
2 - ¾" CORPORATION STOPS
CONNECT USING NECESSARY FITTINGS

PROP.
1200' OF 12" PVC WATER PIPE,
SDR 21, 200# WP
2 - 12" GATE VALVE AND VALVE BOX
200# WP
CONNECT USING NECESSARY FITTINGS

PROP.
1 - NEW FIRE HYDRANT
76' OF 6" DI WATER PIPE, PC 350
1 - 12" X 6" DI TEE
1 - 6" GATE VALVE AND VALVE BOX
200# WP
CONNECT USING NECESSARY FITTINGS

ABANDON (SEE UTILITY NOTES)

MATCHLINE STA. 587+00.00 SEE SHEET UT-12

MATCHLINE STA. 599+00.00 SEE SHEET UT-14

NOTES:

1. PROPOSED WATERLINE TO BE INSTALLED AS CLOSE TO THE EXISTING RIGHT OF WAY LINE AS POSSIBLE UNLESS OTHERWISE SPECIFIED ON THE PLANS BY STATION AND OFFSET.
2. QUANTITY CALL-OUTS FOR TUBING, TAPPING SADDLES, CORPORATION STOPS, ETC. ARE SHOWN FOR ESTIMATING PURPOSES ONLY. DETERMINATION OF ACTUAL QUANTITIES NEEDED FOR INSTALLATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

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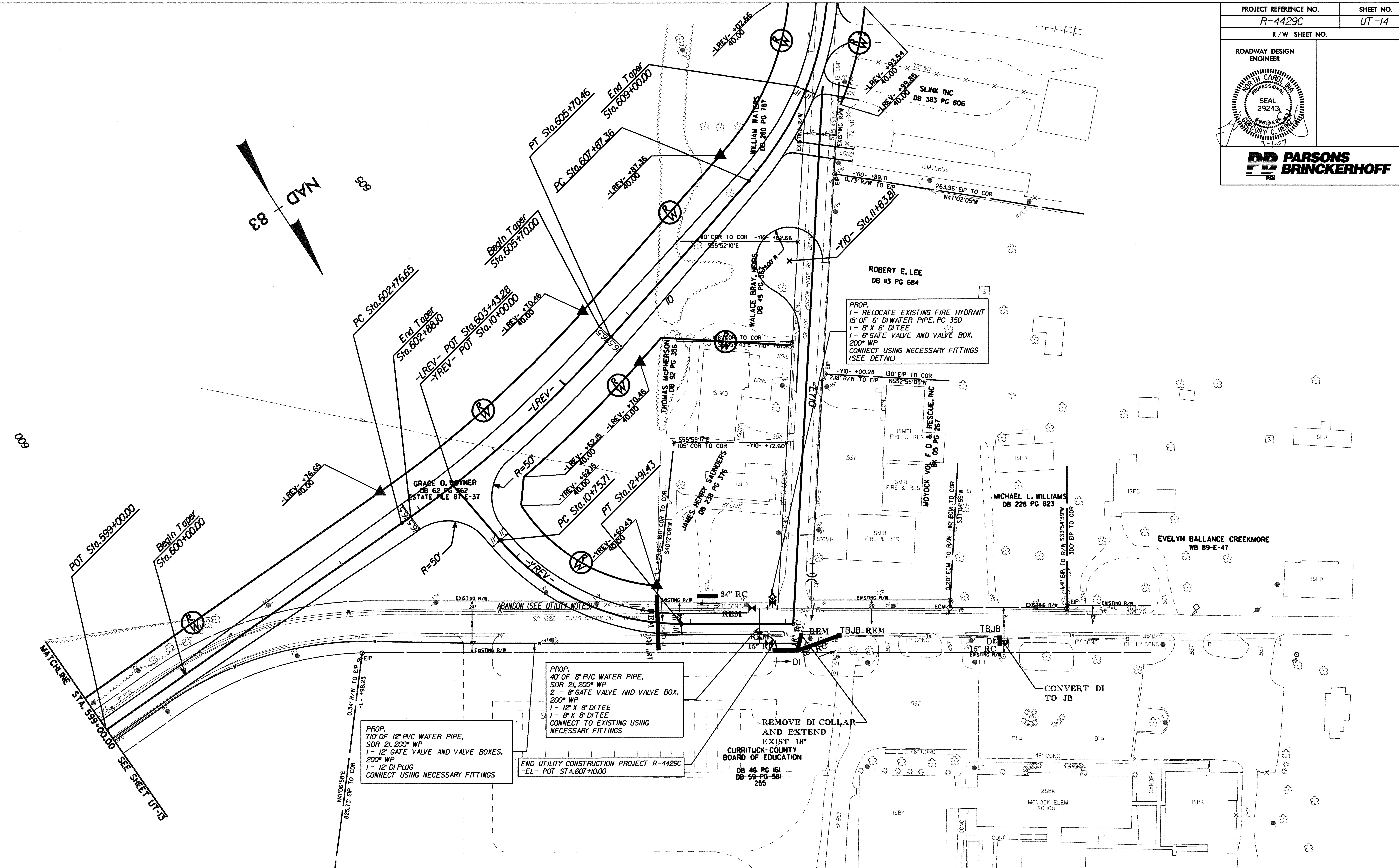
2/26/2007

PROJECT REFERENCE NO.	SHEET NO.
R-4429C	UT-14
R/W SHEET NO.	

ROADWAY DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 29243 GREGORY C. HEINZ 3-1-07

PB PARSONS BRINCKERHOFF



NAD 83
PT Sta.605+70.46
End Taper Sta.609+00.00
PC Sta.607+87.36
Begin Taper Sta.605+70.00
PC Sta.602+76.65
End Taper Sta.602+88.10
-LREV- POT Sta.603+43.28
-YREV- POT Sta.10+00.00
POT Sta.599+00.00
Begin Taper Sta.600+00.00
MATCHLINE STA. 599+00.00
SEE SHEET UT-13
-Y10- Sta.11+83.81
PC Sta.10+75.71
PT Sta.12+91.43
R=50'
WILLIAM WATERS DB 280 PG 787
SLINK INC DB 383 PG 806
ROBERT E. LEE DB 113 PG 684
WALACE BRAY, HEIRS DB 45 PG 362
THOMAS McPHERSON DB 92 PG 356
JAMES HENRY SAUNDERS DB 238 PG 376
GRACE O. BOYNER DB 62 PG 362 ESTATE FILE 87-E-37
MOYOCK VOL F D & RESCUE, INC BK 05 PG 267
MICHAEL L. WILLIAMS DB 228 PG 823
EVELYN BALLANCE CREEKMORE WB 89-E-47
CURRITUCK COUNTY BOARD OF EDUCATION DB 46 PG 161 DB 59 PG 581 255
MOYOCK ELEM SCHOOL
SR 1222 TULLS CREEK RD
SR 1216 PUDDIN RIDGE RD
ABANDON (SEE UTILITY NOTES)
PROP.
1 - RELOCATE EXISTING FIRE HYDRANT
15' OF 6" DI WATER PIPE, PC 350
1 - 8" X 6" DI TEE
1 - 6" GATE VALVE AND VALVE BOX, 200# WP
CONNECT USING NECESSARY FITTINGS (SEE DETAIL)
PROP.
40' OF 8" PVC WATER PIPE, SDR 21, 200# WP
2 - 8" GATE VALVE AND VALVE BOX, 200# WP
1 - 12" X 8" DI TEE
1 - 8" X 8" DI TEE
CONNECT TO EXISTING USING NECESSARY FITTINGS
PROP.
710' OF 12" PVC WATER PIPE, SDR 21, 200# WP
1 - 12" GATE VALVE AND VALVE BOXES, 200# WP
1 - 12" DI PLUG
CONNECT USING NECESSARY FITTINGS
END UTILITY CONSTRUCTION PROJECT R-4429C
-EL- POT STA.607+10.00
REMOVE DI COLLAR AND EXTEND EXIST 18"
CONVERT DI TO JB
24" RC
REM
TBJB
15" RC

NOTES:

1. PROPOSED WATERLINE TO BE INSTALLED AS CLOSE TO THE EXISTING RIGHT OF WAY LINE AS POSSIBLE UNLESS OTHERWISE SPECIFIED ON THE PLANS BY STATION AND OFFSET.
2. QUANTITY CALL-OUTS FOR TUBING, TAPPING SADDLES, CORPORATION STOPS, ETC. ARE SHOWN FOR ESTIMATING PURPOSES ONLY. DETERMINATION OF ACTUAL QUANTITIES NEEDED FOR INSTALLATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

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2/28/2007

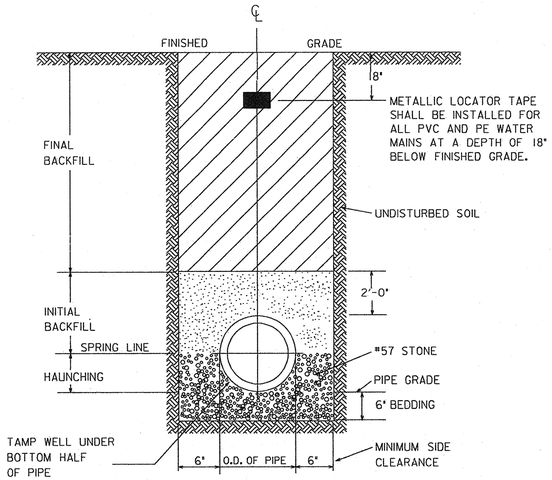
PROJECT REFERENCE NO.	SHEET NO.
R-4429C	UT-15
R/W SHEET NO.	

ROADWAY DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 29243 ENGINEER GREGORY C. HEATH

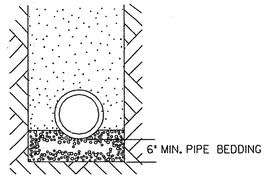
12-11-06

PB PARSONS BRINCKERHOFF



MAXIMUM TRENCH WIDTH AT TOP OF PIPE

NOMINAL PIPE SIZE (INCHES)	TRENCH WIDTH (INCHES)
4	28
6	30
8	32
10	34
12	36



CLASS C

(BEDDING FOR P.V.C. PIPE)

GENERAL NOTES:

1. NO ROCKS OR BOULDERS 4" OR LARGER TO BE USED IN INITIAL BACKFILL.
2. BACKFILL SHALL BE TAMPED IN 6" LIFTS (MAX.).
3. ALL BACKFILL MATERIAL SHALL BE NATIVE MATERIAL.
4. FOR TRENCHES REQUIRING SHORING AND BRACING, DIMENSIONS SHALL BE TAKEN FROM THE INSIDE FACE OF THE SHORING AND THE BRACING.
5. PIPE SHALL BE BEDDED IN LOOSE MATERIAL, LIGHTLY TAMPED WITH A MINIMUM OF 6" UNDER PIPE.
6. ALL BACKFILL MATERIAL SHALL BE FREE OF FOREIGN MATERIAL, FROZEN EARTH, AND ORGANICS.
7. COMPACTION SHALL BE TO APPROXIMATELY 95% DENSITY IN ACCORDANCE WITH AASHTO T-99 AS MODIFIED BY THE NCDOT.

TRENCH AND BACKFILLING DETAILS

N.T.S.

GENERAL NOTES PERTAINING TO WATERWORKS CONSTRUCTION

1. ALL WATERWORKS RELATED CONSTRUCTION SHALL COMPLY WITH APPLICABLE NCDOT, CURRITUCK COUNTY, AND NCDENR (DIVISION OF ENVIRONMENTAL HEALTH, PUBLIC WATER SUPPLY SECTION) STANDARDS.

2. MINIMUM COVER FROM FINISHED GRADE FOR ALL WATER LINES SHALL BE 3'.

3. UTILITIES ARE ILLUSTRATED FOR INFORMATION PURPOSES ONLY. NCDOT WILL NOT BE HELD RESPONSIBLE FOR THE ACCURACY OF UTILITY LOCATIONS, SIZES, DEPTHS, OR THE COMPLETENESS OF UTILITY INFORMATION. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL UTILITY INFORMATION.

4. CONTRATOR IS RESPONSIBLE FOR COORDINATING ALL INTERUPTION OF WATER SERVICE WITH AFFECTED BUSINESSES AND RESIDENTS AT LEAST 48 HOURS PRIOR TO THE PLANNED INTERRUPTION OF SERVICE.

5. CONTRACTOR SHALL PHASE WATERWORKS CONSTRUCTION TO MINIMIZE THE FREQUENCY AND DURATION OF WATER SERVICE INTERRUPTIONS.

6. CONTRACTOR SHALL PERFORM WATER LINE ACCEPTANCE TESTING IN ACCORDANCE WITH NCDOT, CURRITUCK COUNTY, AND NCDENR (DIVISION OF ENVIRONMENTAL HEALTH, PUBLIC WATER SUPPLY SECTION SECTION) REQUIREMENTS.

7. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL NOTIFY ALL UTILITY OWNERS WHOSE FACILTIES WILL BE AFFECTED TO DETERMINE UTILITY LOCATIONS. CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL EXISTING WATER SERVICES AND ENSURING THAT ALL EXISTING WATER SERVICES, WITHIN THE LIMITS OF THE PROPOSED WATER MAIN RELOCATION, ARE RECONNECTED TO THE NEW NEW WATER MAIN.

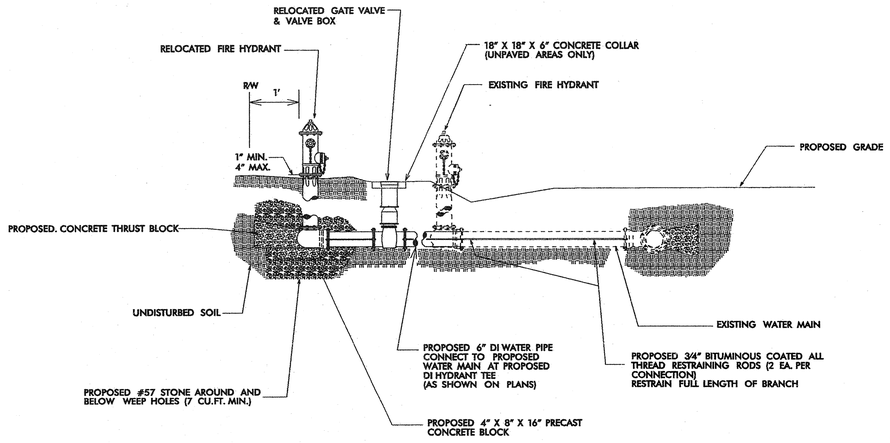
8. CONTRACTOR SHALL PROTECT ALL UTILITIES FROM DAMAGE CAUSED BY HIS OPERATIONS OF THOSE OF HIS AGENTS. CONTRACTOR SHALL HOLD THE NCDOT HARMLESS FOR ANY THIRD PARTY INCONVENIENCE CREATED BY WORK OF HIS OWN FORCES OR THAT OF HIS AGENTS.

9. CONTRACTOR SHALL ADJUST VALVE BOXES, MANHOLES, AND OTHER UTILITIES TO THE FINISHED GRADE AS NECESSARY.

10. EXISTING WATERWORKS THAT ARE REMOVED FROM SERVICE SHALL BE PLUGGED AND ABANDONDED IN PLACE.

11. THE CONTRACTOR SHALL NOTE THAT GRAPHICAL REPRESENTATIONS OF VALVE, TEE, HYDRANT, METER, ETC. LOCATIONS SHOWN IN PLANS ARE APPROXIMATE ONLY. WHEN POSSIBLE, CARE SHOULD BE TAKEN TO AVOID PLACING VALVES WITHIN PAVEMENT AREAS; ADDITIONALLY, FIRE HYDRANTS SHALL BE PLACED ONE FOOT INSIDE THE AVAILABLE RIGHT-OF-WAY AS NEAR TO THE LOCATION DEPICTED IN THE PLANS AS IS FEASIBLE, AND WATER METERS SHALL BE PLACED INSIDE AVAILABLE RIGHT-OF-WAY OR EASEMENTS.

12. EXISTING WATER METERS SHALL BE RELOCATED AS SHOWN IN THE PLANS WHERE FEASIBLE; OTHERWISE, NEW METERS SHALL BE INSTALLED.

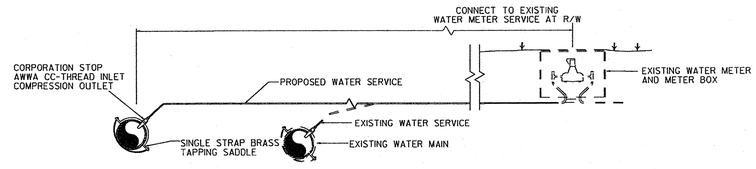


GENERAL NOTES:

1. FIRE HYDRANTS SHALL BE PLACED A DISTANCE OF 1 FEET INSIDE OF R/W AND 6 FEET BACK OF DITCH IN ROADWAY SECTIONS. PUMPER NOZZLE SHALL BE PERPENDICULAR TO ROADWAY.
2. ALL CONCRETE SHALL BE CLASS "B".
3. HYDRANT BRANCH LINE SHALL HAVE THE SAME COVER AS THE MAIN (36" MINIMUM).

FIRE HYDRANT RELOCATION DETAIL

N.T.S.



GENERAL NOTES:

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

TYPICAL SERVICE RECONNECT

N.T.S.

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12/6/2006

PROJECT REFERENCE NO.	SHEET NO.
R-4429C	UT-16
R/W SHEET NO.	

ROADWAY DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 29243 ENGINEER GREGORY T. VICINI

12-1-06

PB PARSONS BRINCKERHOFF

BASED ON TEST PRESSURE OF 200 P.S.I.

HORIZONTAL RESTRAINT

(ALL AREAS GIVEN ARE IN SQUARE FEET)

PIPE SIZE	DEGREE OF BEND	LBS. STATIC THRUST *	ALLOWABLE SOIL BEARING (PSF)							
			1000	2000	3000	4000	5000	6000	7000	8000
4"	11 1/4°	616	1	1	1	1	1	1	1	1
	22 1/2°	1,226	1	1	1	1	1	1	1	1
	45°	2,405	2	1	1	1	1	1	1	1
	90°	4,444	4	2	1	1	1	1	1	1
	TEE/PLUG	3,143	3	2	1	1	1	1	1	1
6"	11 1/4°	1,385	2	1	1	1	1	1	1	1
	22 1/2°	2,758	3	2	1	1	1	1	1	1
	45°	5,409	5	3	2	2	1	1	1	1
	90°	9,999	10	5	3	3	2	2	2	1
	TEE/PLUG	7,068	7	4	3	2	2	1	1	1
8"	11 1/4°	2,424	3	1	1	1	1	1	1	1
	22 1/2°	4,904	5	3	2	1	1	1	1	1
	45°	9,619	10	5	3	2	2	2	2	1
	90°	17,773	18	9	6	4	4	3	3	2
	TEE/PLUG	12,568	13	6	4	3	3	2	2	2
10"	11 1/4°	3,846	4	2	2	1	1	1	1	1
	22 1/2°	7,661	8	4	3	2	2	2	1	1
	45°	15,028	15	8	5	4	3	3	2	2
	90°	27,768	28	14	9	7	6	5	4	3
	TEE/PLUG	19,635	20	10	7	5	4	3	3	2
12"	11 1/4°	5,543	6	3	2	2	1	1	1	1
	22 1/2°	11,032	11	6	4	3	2	2	2	2
	45°	21,641	22	11	7	5	4	4	3	3
	90°	39,987	40	20	13	10	8	7	6	5
	TEE/PLUG	28,274	28	14	9	7	6	5	4	4
14"	11 1/4°	7,544	8	4	3	2	2	2	1	1
	22 1/2°	15,016	15	8	5	4	3	3	2	2
	45°	29,455	29	15	10	7	6	5	4	4
	90°	54,426	54	27	18	14	11	9	8	7
	TEE/PLUG	38,485	38	19	13	10	8	6	5	5
16"	11 1/4°	9,854	10	5	3	3	2	2	2	2
	22 1/2°	19,612	20	10	7	5	4	3	3	3
	45°	38,471	38	17	13	10	8	6	5	5
	90°	71,085	71	36	24	18	14	12	10	8
	TEE/PLUG	50,265	50	25	17	13	10	8	7	6

* INCLUDES 1.25 SAFETY FACTOR

GENERAL NOTES:

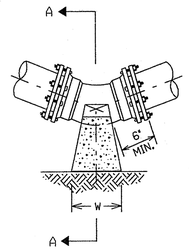
1. CONCRETE SHALL BE CLASS "B".
2. CONCRETE SHALL NOT CONTACT BOLTS ENDS OF MECHANICAL JOINT FITTINGS.
3. ALLOWABLE SOIL BEARING SHALL BE DETERMINED BY THE CONTRACTOR.

VERTICAL RESTRAINT

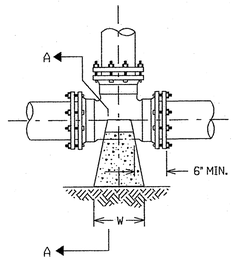
(ALL VOLUMES GIVEN ARE IN CUBIC YARDS)**

PIPE SIZE	RESTRAINING RODS		DEGREE OF BEND		
	NO.REQ'D	DIA.	11 1/4°	22 1/2°	45°
4"	2	1/2"	0.25	0.50	0.75
6"	2	1/2"	0.50	1.0	1.75
8"	2	5/8"	0.75	1.50	3.0
10"	2	3/4"	1.25	2.25	4.50
12"	2	7/8"	1.75	3.25	6.50
14"	4	5/8"	2.25	4.50	8.75
16"	4	3/4"	3.0	6.0	11.50

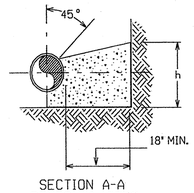
**INCLUDES 1.50 SAFETY FACTOR



PLAN (BENDS)

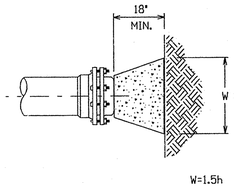


PLAN (TEES)

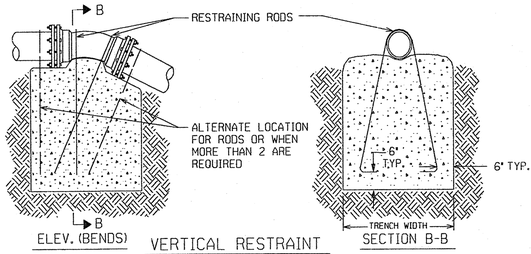


SECTION A-A
BENDS & TEES

HORIZONTAL RESTRAINT



PLAN & ELEV. (PLUGS)



ELEV. (BENDS)

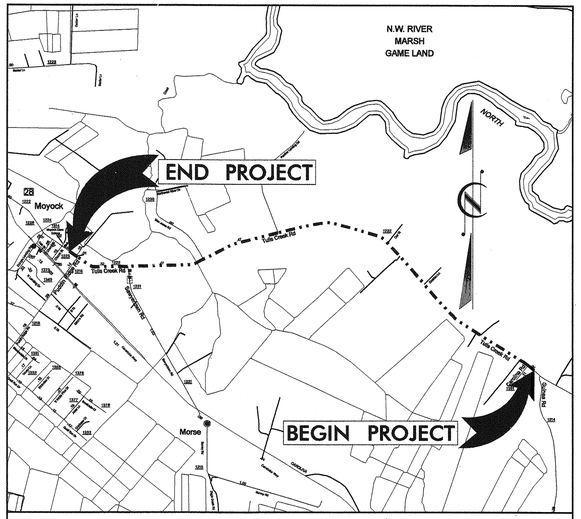
VERTICAL RESTRAINT

SECTION B-B

THRUST RESTRAINT FOR WATER MAINS

N.T.S.

G:\Projects\20344\R-4429C\CADD\4429C_RDY_UTL_16.dgn
prf
12/5/2006



09/08/99

TIP PROJECT: R-4429C

PROJECT: 34622.3.5

15-MAR-2007 11:26
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$$$$USERNAME$$$$

T.I.P. NO.	SHEET NO.
R-4429C	UO-1

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

UTILITY BY OTHERS PLANS
CURRITUCK COUNTY

LOCATION: SR 1222 (TULLS CREEK ROAD)
FROM SR 1214 (GUINEA ROAD) TO SR 1216 (PUDDIN RIDGE ROAD)

TYPE OF WORK: POWER, TELEPHONE, GAS

VICINITY MAP

BEGIN STATE PROJECT 34622.3.5
-L- POT Sta. 441+19.51

END STATE PROJECT 34622.3.5
-L- POT Sta. 611+40.00

GRAPHIC SCALES

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
UO-1	TITLE SHEET
UO-2 THRU UO-15	UTILITIES BY OTHERS PLAN SHEETS

UTILITY OWNERS ON PROJECT

(1) DOMINION POWER
(2) CT&T TELEPHONE
(3) MIDIA-COM
4) PIEDMONT NATURAL GAS

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
Carl Barclay, P.E.	UTILITIES SQUAD LEADER PROJECT ENGINEER
Ali Koucheki	UTILITIES PROJECT DESIGNER

SIGNATURE:

PROJECT REFERENCE NO.	SHEET NO.
R-4429C	U0-2

UTILITIES BY OTHERS

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

-EL-
PI Sta 444+44.32
△ = 9° 09' 34.9" (LT)
D = 3° 00' 00.0"
L = 305.32'
T = 152.99'
R = 1,909.86'

-EL-
PI Sta 452+62.27
△ = 0° 56' 42.2" (LT)
D = 0° 22' 40.9"
L = 250.00'
T = 125.00'
R = 15,156.62'

-EY6-
PI Sta 10+42.26
△ = 1° 41' 25.1" (RT)
D = 2° 00' 00.0"
L = 84.52'
T = 42.26'
R = 2,864.79'

NAD 83

Begin Project
Sta. 441+19.51

POT Sta. 440+67.85

PC Sta. 442+91.34

PC Sta. 10+00.00

BEGIN CONSTRUCTION
-EY6- STA 10+00.00

PT Sta. 445+96.66

PT Sta. 10+84.52

PC Sta. 451+37.26

STA. 448+87
OFFSET 32' RT

MATCHLINE STA. 453+00.00
SEE SHEET U0-3

① THOMAS J. HOUSTON
DB 366 PG 797
926

② BRIAN E. HUDGINS
DB 395 PG 874
920

③ BILLY J. WILLIAMS
DB 353 PG 750
912

④ HARRY R. SEYMOUR
DB 474 PG 039
906

⑤ SUSAN COLEMAN KAY
DB 164 PG 159

⑥ CHARLES D. JARVIS
DB 243 PG 711

⑦ KENNETH R. VAHLE, et ux
DB 380 PG 640

⑧ GILBERT ANTHONY HAID, JR, et ux
DB 445 PG 173

⑨ MICHEAL L. STINNETTE, JR, et ux
DB 496 PG 454

⑩ BARRY JOESPH MELANSON
DB 245 PG 692

ABANDON

REM.

DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY OTHERS FOR MONUMENT "HYDRANT" WITH NAD 1983/95 STATE PLANE GRID COORDINATES OF NORTHING: 1010625.899 (ft) EASTING: 2860510.122 (ft)
THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 1.0001084
THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "HYDRANT" TO -L- STATION 440+67.85 IS N 64°46'07" W 17,017.0403 FT.
ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES
VERTICAL DATUM USED IS NGVD 29

GRADE DITCHES AS FOLLOWS:

441+20 (TIE TO EXIST.) ← WATER FLOW ← 446+50 (GRADE BREAK) LEFT SIDE
441+20 (TIE TO EXIST.) ← WATER FLOW ← 448+60 (GRADE BREAK) RIGHT SIDE
446+50 (GRADE BREAK) → WATER FLOW → 449+20 (CROSS LINE) LEFT SIDE
448+60 (GRADE BREAK) → WATER FLOW → 449+20 (OUTLET DITCH) RIGHT SIDE
449+20 (CROSS LINE) ← WATER FLOW ← 459+00 (GRADE BREAK) LEFT SIDE
449+20 (OUTLET DITCH) ← WATER FLOW ← 455+45 (GRADE BREAK) RIGHT SIDE

5/14/99

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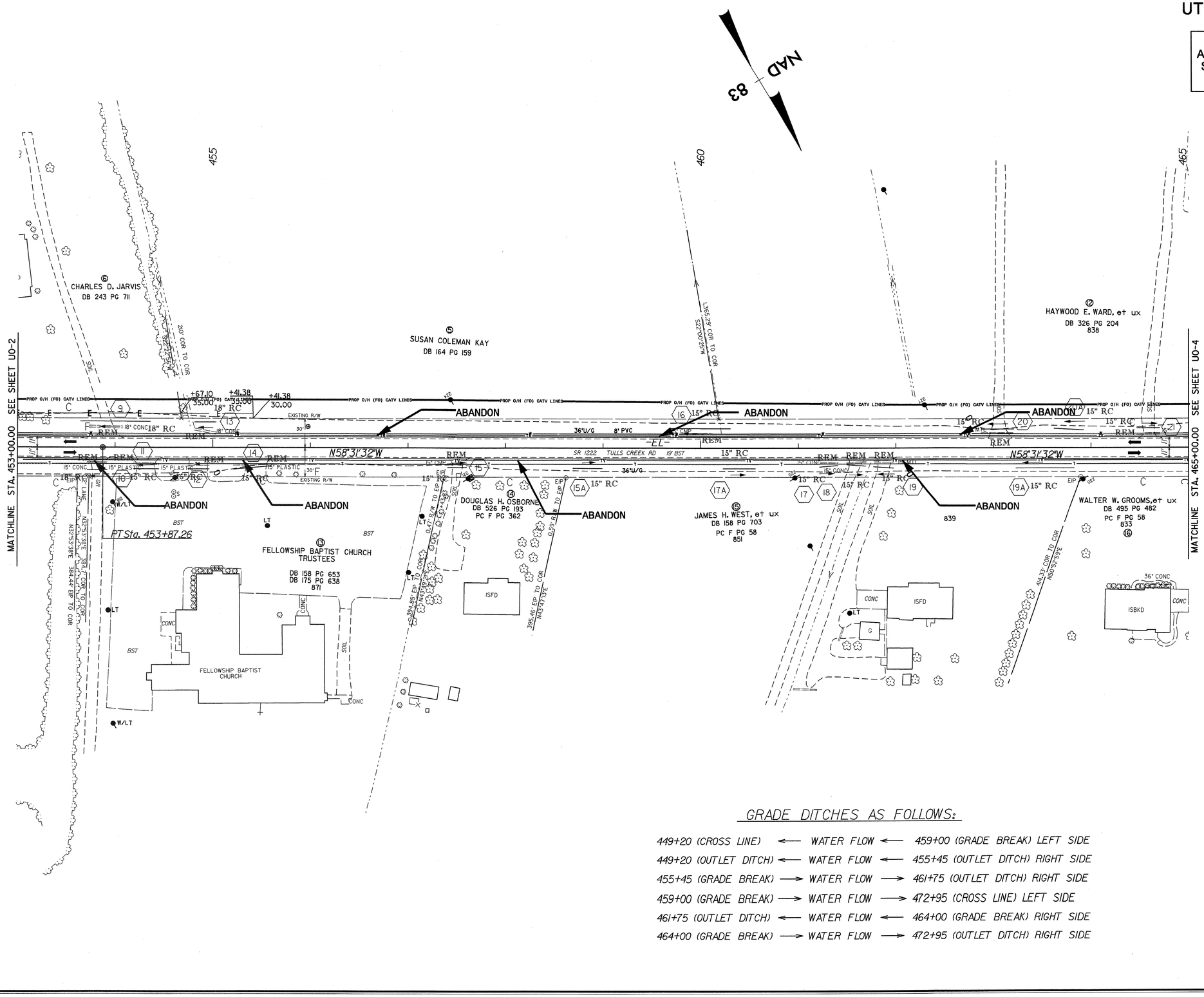
PROJECT REFERENCE NO.	SHEET NO.
R-4429C	U0-3

UTILITIES BY OTHERS

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



GRADE DITCHES AS FOLLOWS:

449+20 (CROSS LINE) ← WATER FLOW ← 459+00 (GRADE BREAK) LEFT SIDE
449+20 (OUTLET DITCH) ← WATER FLOW ← 455+45 (OUTLET DITCH) RIGHT SIDE
455+45 (GRADE BREAK) → WATER FLOW → 461+75 (OUTLET DITCH) RIGHT SIDE
459+00 (GRADE BREAK) → WATER FLOW → 472+95 (CROSS LINE) LEFT SIDE
461+75 (OUTLET DITCH) ← WATER FLOW ← 464+00 (GRADE BREAK) RIGHT SIDE
464+00 (GRADE BREAK) → WATER FLOW → 472+95 (OUTLET DITCH) RIGHT SIDE

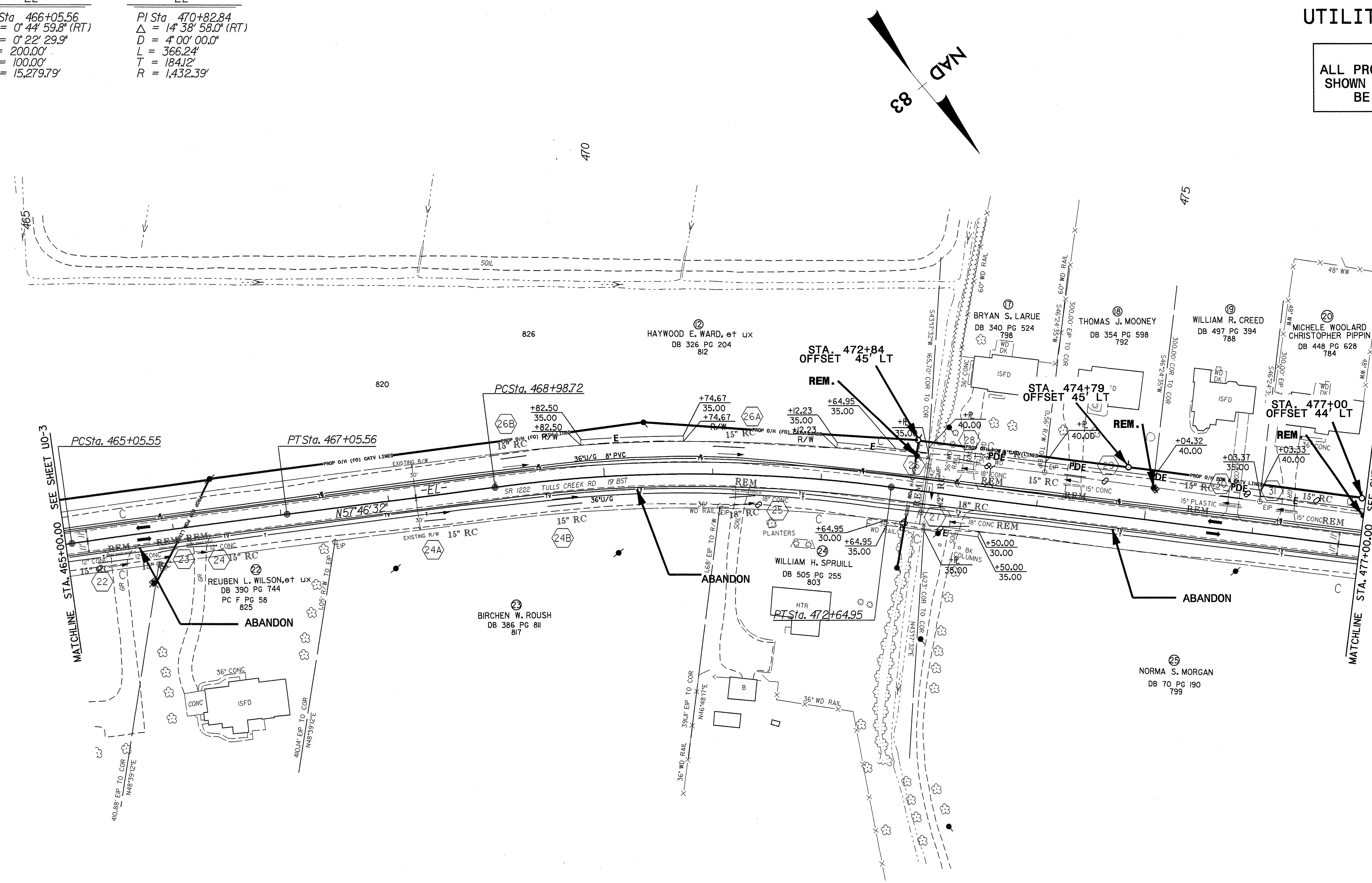
PROJECT REFERENCE NO.	SHEET NO.
R-4429C	UO-4

UTILITIES BY OTHERS

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

-EL-
PI Sta 466+05.56
△ = 0° 44' 59.8" (RT)
D = 0° 22' 29.9"
L = 200.00'
T = 100.00'
R = 15,279.79'

-EL-
PI Sta 470+82.84
△ = 14° 38' 58.0" (RT)
D = 4° 00' 00.0"
L = 366.24'
T = 184.12'
R = 1,432.39'



NAD 83
MATCHLINE STA. 465+00.00 SEE SHEET UO-3
MATCHLINE STA. 477+00.00 SEE SHEET UO-5
PCSta. 465+05.55
PTSta. 467+05.56
PCSta. 468+98.72
PTSta. 472+64.95
N57°46'32"
SR 1222 TULLS CREEK RD 19' BST
STA. 472+84 OFFSET 45' LT
STA. 474+79 OFFSET 45' LT
STA. 477+00 OFFSET 44' LT
REM.
ABANDON
HAYWOOD E. WARD, et ux DB 326 PG 204 812
BRYAN S. LARUE DB 340 PG 524 798
THOMAS J. MOONEY DB 354 PG 598 792
WILLIAM R. CREED DB 497 PG 394 788
MICHELE WOOLARD CHRISTOPHER PIPPIN DB 448 PG 628 784
REUBEN L. WILSON, et ux DB 390 PG 744 PC F PG 58 825
BIRCHEN W. ROUSH DB 386 PG 811 817
WILLIAM H. SPRUILL DB 505 PG 255 803
NORMA S. MORGAN DB 70 PG 190 799

GRADE DITCHES AS FOLLOWS:

464+00 (GRADE BREAK) ⟶ WATER FLOW ⟶ 472+95 (OUTLET DITCH) LEFT SIDE
459+00 (GRADE BREAK) ⟶ WATER FLOW ⟶ 472+95 (CROSS LINE) RIGHT SIDE
472+95 (OUTLET DITCH) ⟵ WATER FLOW ⟵ 475+00 (GRADE BREAK) RIGHT SIDE
472+95 (CROSS LINE) ⟵ WATER FLOW ⟵ 482+00 (GRADE BREAK) LEFT SIDE
475+00 (GRADE BREAK) ⟶ WATER FLOW ⟶ 489+70 (OUTLET DITCH) RIGHT SIDE

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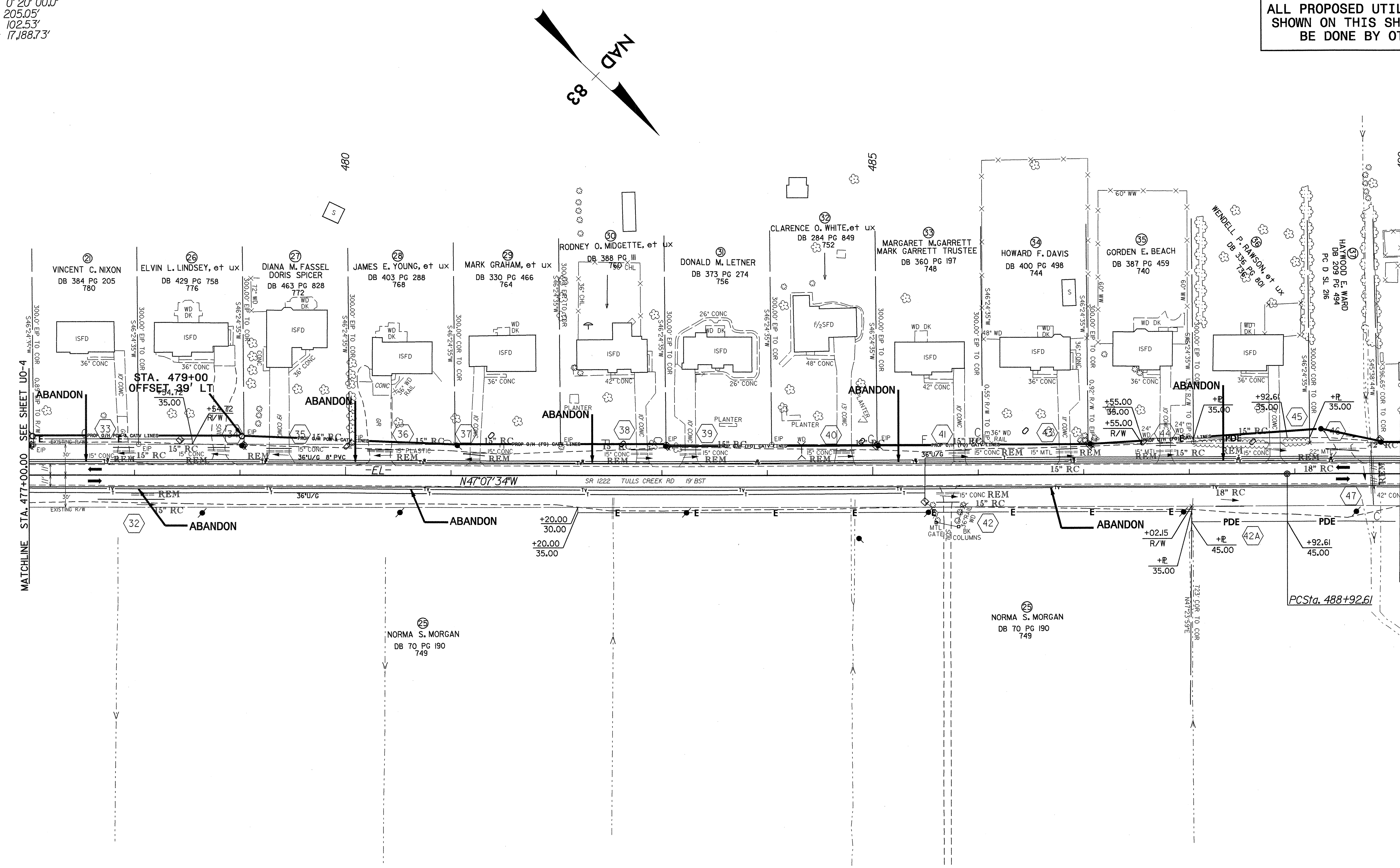
PROJECT REFERENCE NO.	SHEET NO.
R-4429C	UO-5

UTILITIES BY OTHERS

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

-EL-

PI Sta 489+95.14
△ = 0° 41' 00.6" (RT)
D = 0° 20' 00.0"
L = 205.05'
T = 102.53'
R = 17,188.73'



GRADE DITCHES AS FOLLOWS:

472+95 (CROSS LINE) ⟵ WATER FLOW ⟵ 482+00 (GRADE BREAK) LEFT SIDE
482+00 (GRADE BREAK) ⟶ WATER FLOW ⟶ 489+70 (CROSS LINE) LEFT SIDE
475+00 (GRADE BREAK) ⟶ WATER FLOW ⟶ 489+70 (OUTLET DITCH) RIGHT SIDE
489+70 (CROSS LINE) ⟵ WATER FLOW ⟵ 497+00 (GRADE BREAK) LEFT SIDE
489+70 (OUTLET DITCH) ⟵ WATER FLOW ⟵ 497+00 (GRADE BREAK) RIGHT SIDE

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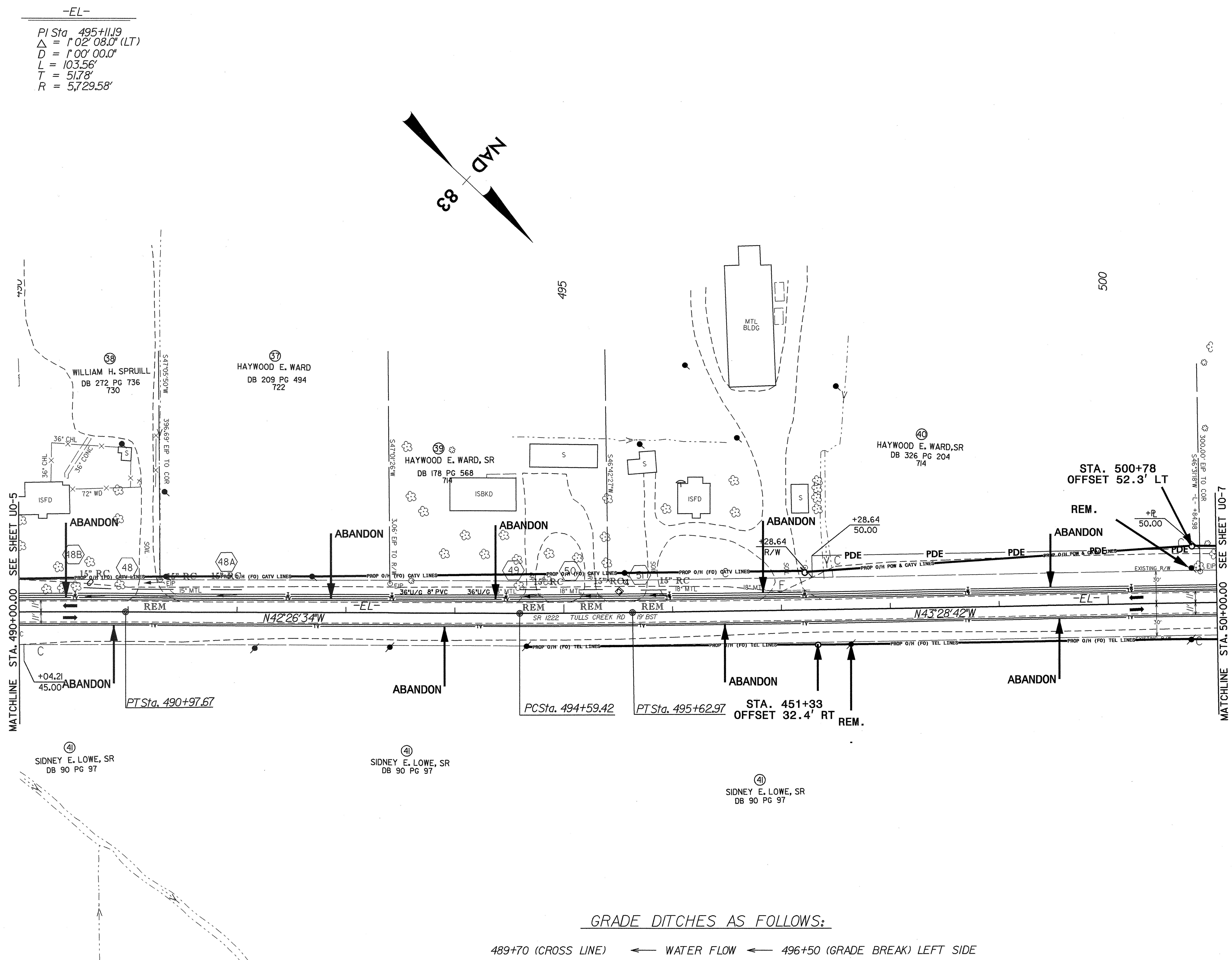
PROJECT REFERENCE NO.	SHEET NO.
R-4429C	U0-6

UTILITIES BY OTHERS

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



-EL-
PI Sta 495+11.19
△ = 1°02' 08.0" (LT)
D = 1°00' 00.0"
L = 103.56'
T = 51.78'
R = 5,729.58'
NAD 83
495
500
WILLIAM H. SPRUILL
DB 272 PG 736
730
HAYWOOD E. WARD
DB 209 PG 494
722
HAYWOOD E. WARD, SR
DB 178 PG 568
714
HAYWOOD E. WARD,SR
DB 326 PG 204
714
MTL BLDG
ISFD
ISBKD
ABANDON
ABANDON
ABANDON
ABANDON
ABANDON
ABANDON
ABANDON
ABANDON
ABANDON
REM.
REM.
STA. 500+78
OFFSET 52.3' LT
STA. 451+33
OFFSET 32.4' RT
PDE
N42°26'34"W
N43°28'42"W
SR 1222 TULLS CREEK RD
PT Sta. 490+97.67
PC Sta. 494+59.42
PT Sta. 495+62.97
MATCHLINE STA. 490+00.00 SEE SHEET U0-5
MATCHLINE STA. 501+00.00 SEE SHEET U0-7
SIDNEY E. LOWE, SR
DB 90 PG 97
SIDNEY E. LOWE, SR
DB 90 PG 97
SIDNEY E. LOWE, SR
DB 90 PG 97

GRADE DITCHES AS FOLLOWS:

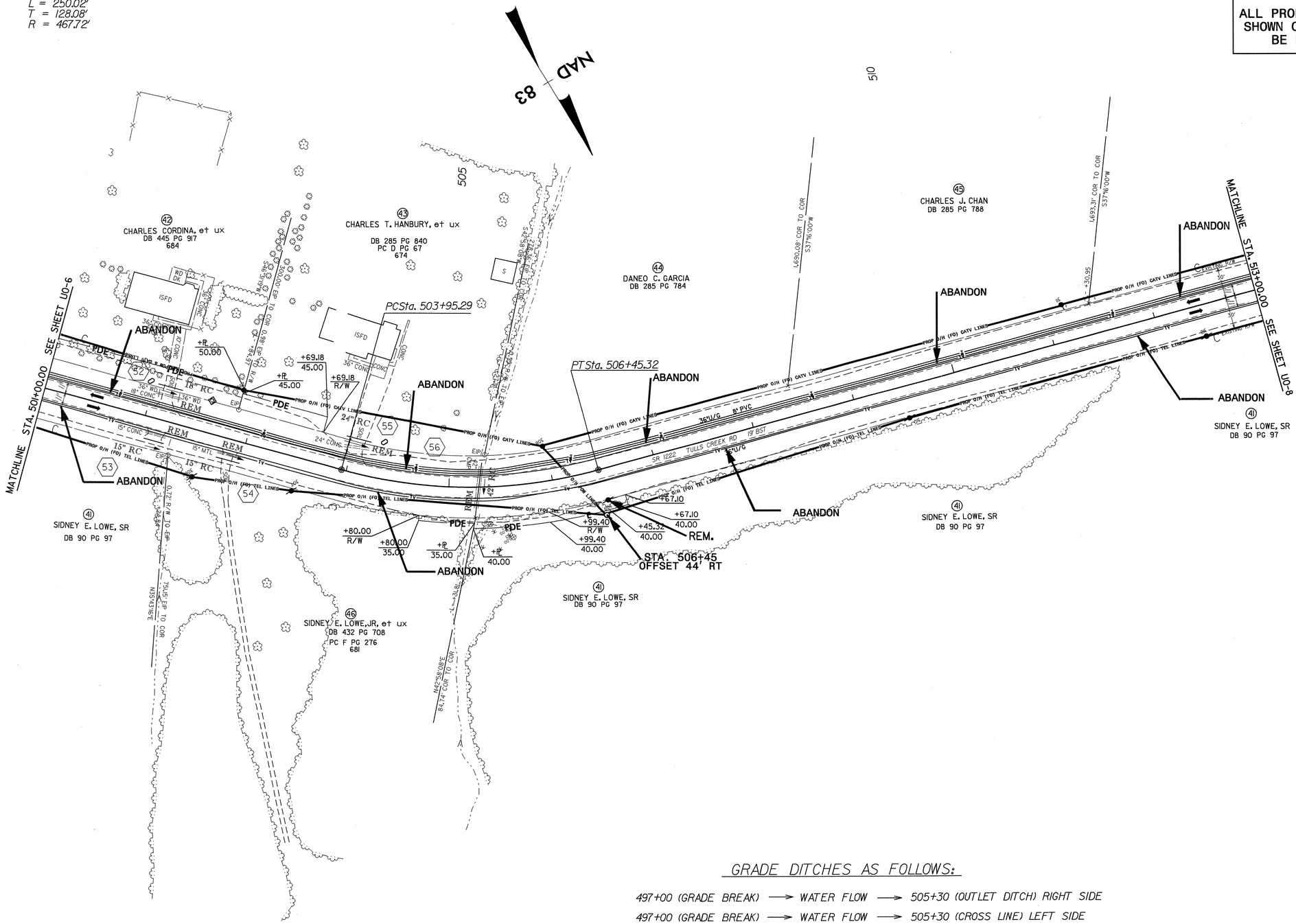
489+70 (CROSS LINE) ⟵ WATER FLOW ⟵ 496+50 (GRADE BREAK) LEFT SIDE
489+70 (OUTLET DITCH) ⟵ WATER FLOW ⟵ 497+50 (GRADE BREAK) RIGHT SIDE
497+00 (GRADE BREAK) ⟶ WATER FLOW ⟶ 505+30 (OUTLET DITCH) RIGHT SIDE
497+00 (GRADE BREAK) ⟶ WATER FLOW ⟶ 505+30 (CROSS LINE) LEFT SIDE

PROJECT REFERENCE NO.	SHEET NO.
R-4429C	U0-7

UTILITIES BY OTHERS

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

-EL-
PI Sta 505+23.37
△ = 30° 37' 40.3" (LT)
D = 12° 15' 00.0"
L = 250.02'
T = 128.08'
R = 467.72'



GRADE DITCHES AS FOLLOWS:

497+00 (GRADE BREAK) → WATER FLOW → 505+30 (OUTLET DITCH) RIGHT SIDE
497+00 (GRADE BREAK) → WATER FLOW → 505+30 (CROSS LINE) LEFT SIDE
505+30 (CROSS LINE) ← WATER FLOW ← 517+00 (GRADE BREAK) LEFT SIDE
505+30 (OUTLET DITCH) ← WATER FLOW ← 517+00 (GRADE BREAK) RIGHT SIDE
517+00 (GRADE BREAK) → WATER FLOW → 522+80 (OUTLET DITCH) RIGHT SIDE
517+00 (GRADE BREAK) → WATER FLOW → 523+10 (CROSS LINE) LEFT SIDE

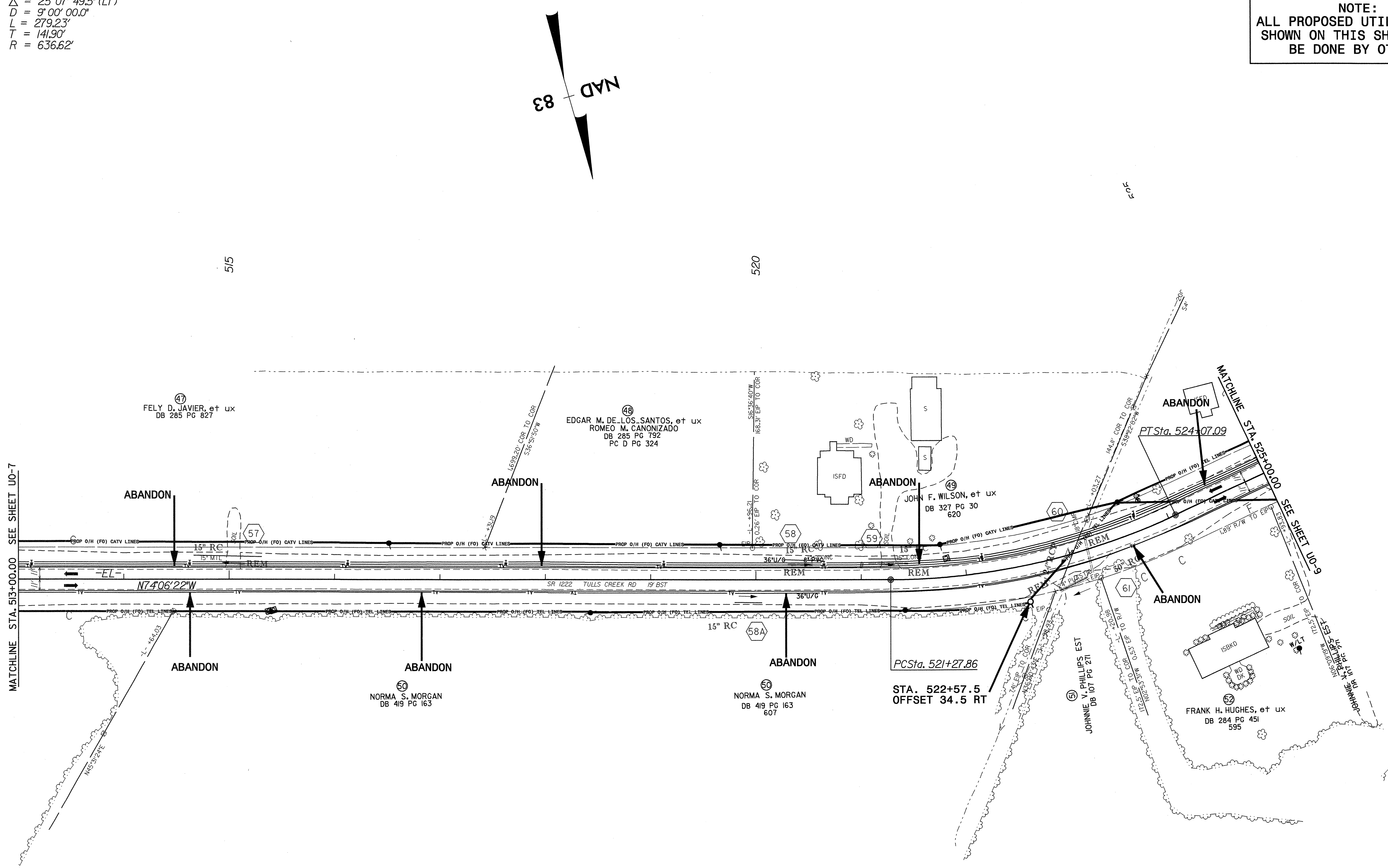
PROJECT REFERENCE NO.	SHEET NO.
R-4429C	UO-8

UTILITIES BY OTHERS

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

-EL-

PI Sta 522+69.75
Δ = 25° 07' 49.5" (LT)
D = 9° 00' 00.0"
L = 279.23'
T = 141.90'
R = 636.62'



NAD 83
515
520
MATCHLINE STA. 513+00.00 SEE SHEET UO-7
MATCHLINE STA. 525+00.00 SEE SHEET UO-9
ABANDON
ABANDON
ABANDON
ABANDON
ABANDON
ABANDON
ABANDON
ABANDON
ABANDON
FELY D. JAVIER, et ux
DB 285 PG 827
EDGAR M. DE LOS SANTOS, et ux
ROMEO M. CANONIZADO
DB 285 PG 792
PC D PG 324
JOHN F. WILSON, et ux
DB 327 PG 30
620
NORMA S. MORGAN
DB 419 PG 163
NORMA S. MORGAN
DB 419 PG 163
607
JOHNNIE V. PHILLIPS EST
DB 107 PG 271
FRANK H. HUGHES, et ux
DB 284 PG 451
595
-EL-
N74°06'22"W
SR 1222 TULLS CREEK RD 19' BST
PROP O/H (FO) CATV LINES
PROP O/H (FO) TEL LINES
15" RC
36"U/G
REM
PT Sta. 524+07.09
PC Sta. 521+27.86
STA. 522+57.5
OFFSET 34.5 RT

GRADE DITCHES AS FOLLOWS:

517+00 (GRADE BREAK) ⟶ WATER FLOW ⟶ 523+10 (CROSS LINE) LEFT SIDE
517+00 (GRADE BREAK) ⟶ WATER FLOW ⟶ 522+80 (OUTLET DITCH) RIGHT SIDE
523+10 (CROSS LINE) ⟵ WATER FLOW ⟵ 525+40 (GRADE BREAK) LEFT SIDE
522+80 (OUTLET DITCH) ⟵ WATER FLOW ⟵ 525+00 (GRADE BREAK) RIGHT SIDE

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PROJECT REFERENCE NO.	SHEET NO.
R-4429C	U0-9

UTILITIES BY OTHERS

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

-EL-

PI Sta 530+98.75
△ = 4° 42' 47.0" (LT)
D = 1° 00' 00.0"
L = 471.31'
T = 235.79'
R = 5,729.58'

NAD 83

530

535

MATCHLINE STA. 525+00.00 SEE SHEET U0-8

MATCHLINE STA. 538+00.00 SEE SHEET U0-10

ISBKD

ABANDON

53 BEVERLY B. WOOD DB 406 PG 133 586

54 BESSIE JONES DB 211 PG 528

55 LINDA W. VICK DB 214 PG 235

56 I. N. WILSON, ESTATE DB 78 PG 006

REM. PCSta. 528+62.96

STA. 529+52.76 OFFSET 37.62 LT

Begin Taper Sta. 535+90.00

PTSta. 533+34.27

REM.

STA. 534+27.3 OFFSET 40' RT

STA. 537+66.6 OFFSET 40.6 RT

SR 1822 TULLS CREEK RD 19' BST

S80°45'49"W

ISFD

2SFD

57 JOYCE P. CREWS, et vir DB 372 PG 779 585

58 WENDELL G. PHILLIPS, et ux DB 372 PG 771 583

59 WANDA B. BAILEY DB 309 PG 481 PC E PG 378 579

60 JOHNNIE V. PHILLIPS EST DB 107 PG 271

61 BESSIE JONES DB 211 PG 528

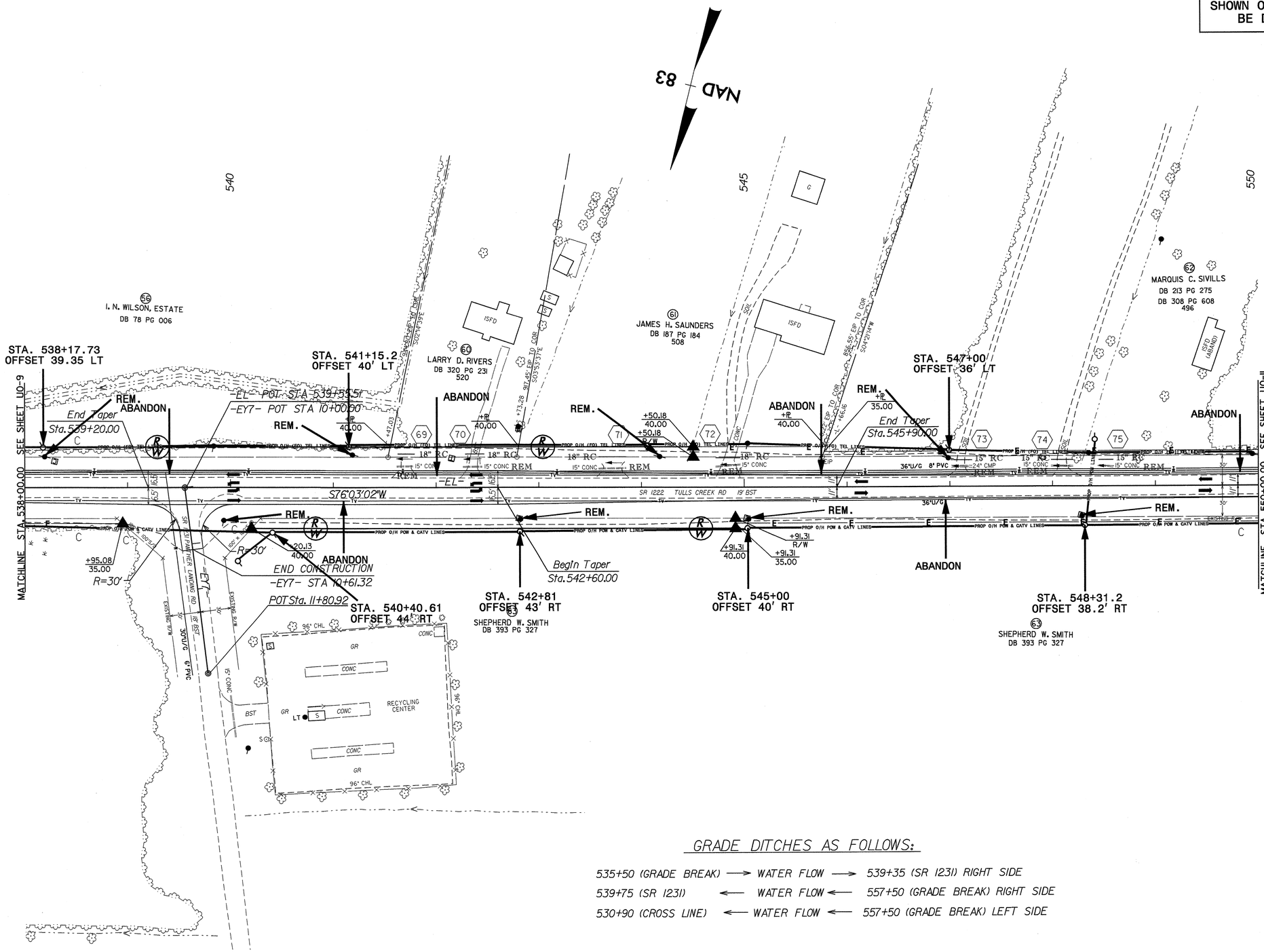
GRADE DITCHES AS FOLLOWS:

523+10 (CROSS LINE) ← WATER FLOW ← 525+40 (GRADE BREAK) LEFT SIDE
525+40 (GRADE BREAK) → WATER FLOW → 530+90 (OUTLET DITCH) RIGHT SIDE
527+00 (SHOULDER EDGE) → WATER FLOW → 530+90 (CROSS LINE) LEFT SIDE
530+90 (CROSS LINE) ← WATER FLOW ← 557+50 (GRADE BREAK) LEFT SIDE
530+90 (OUTLET DITCH) ← WATER FLOW ← 535+50 (GRADE BREAK) RIGHT SIDE
535+50 (GRADE BREAK) → WATER FLOW → 539+35 (OUTLET DITCH) RIGHT SIDE

PROJECT REFERENCE NO.	SHEET NO.
R-4429C	U0-10

UTILITIES BY OTHERS

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



GRADE DITCHES AS FOLLOWS:

535+50 (GRADE BREAK) ⟶ WATER FLOW ⟶ 539+35 (SR 1231) RIGHT SIDE

539+75 (SR 1231) ⟵ WATER FLOW ⟵ 557+50 (GRADE BREAK) RIGHT SIDE

530+90 (CROSS LINE) ⟵ WATER FLOW ⟵ 557+50 (GRADE BREAK) LEFT SIDE

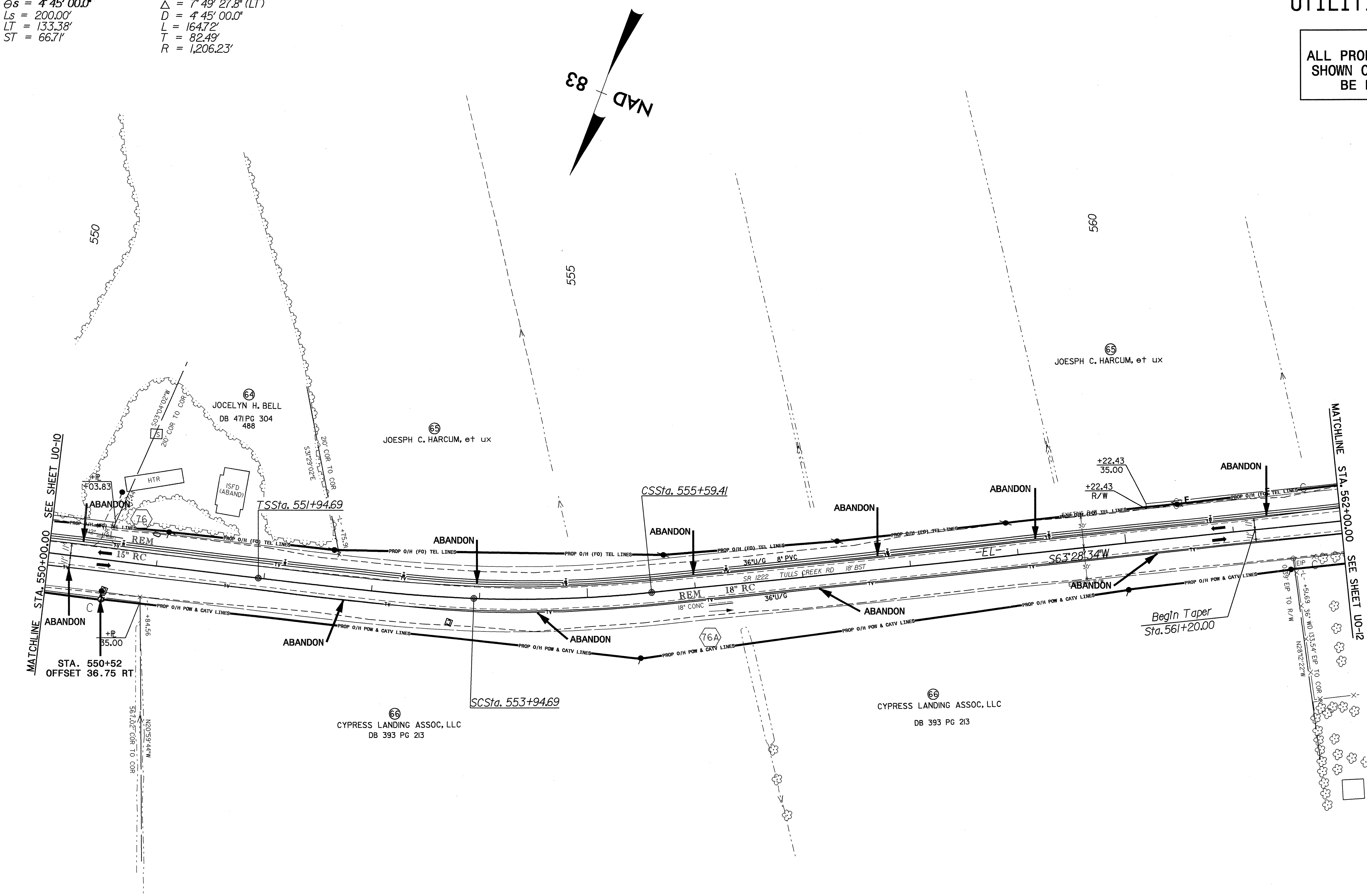
PROJECT REFERENCE NO.	SHEET NO.
R-4429C	UO-11

UTILITIES BY OTHERS

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

-EL-
PIs Sta 553+28.07
Θs = 4°45′00.0″
Ls = 200.00′
LT = 133.38′
ST = 66.71′

-EL-
PI Sta 554+77.18
Δ = 7°49′27.8″ (LT)
D = 4°45′00.0″
L = 164.72′
T = 82.49′
R = 1,206.23′



GRADE DITCHES AS FOLLOWS:

557+50 (GRADE BREAK) ⟶ WATER FLOW ⟶ 566+80 (CROSS LINE) LEFT SIDE

557+50 (GRADE BREAK) ⟶ WATER FLOW ⟶ 566+80 (OUTLET DITCH) RIGHT SIDE

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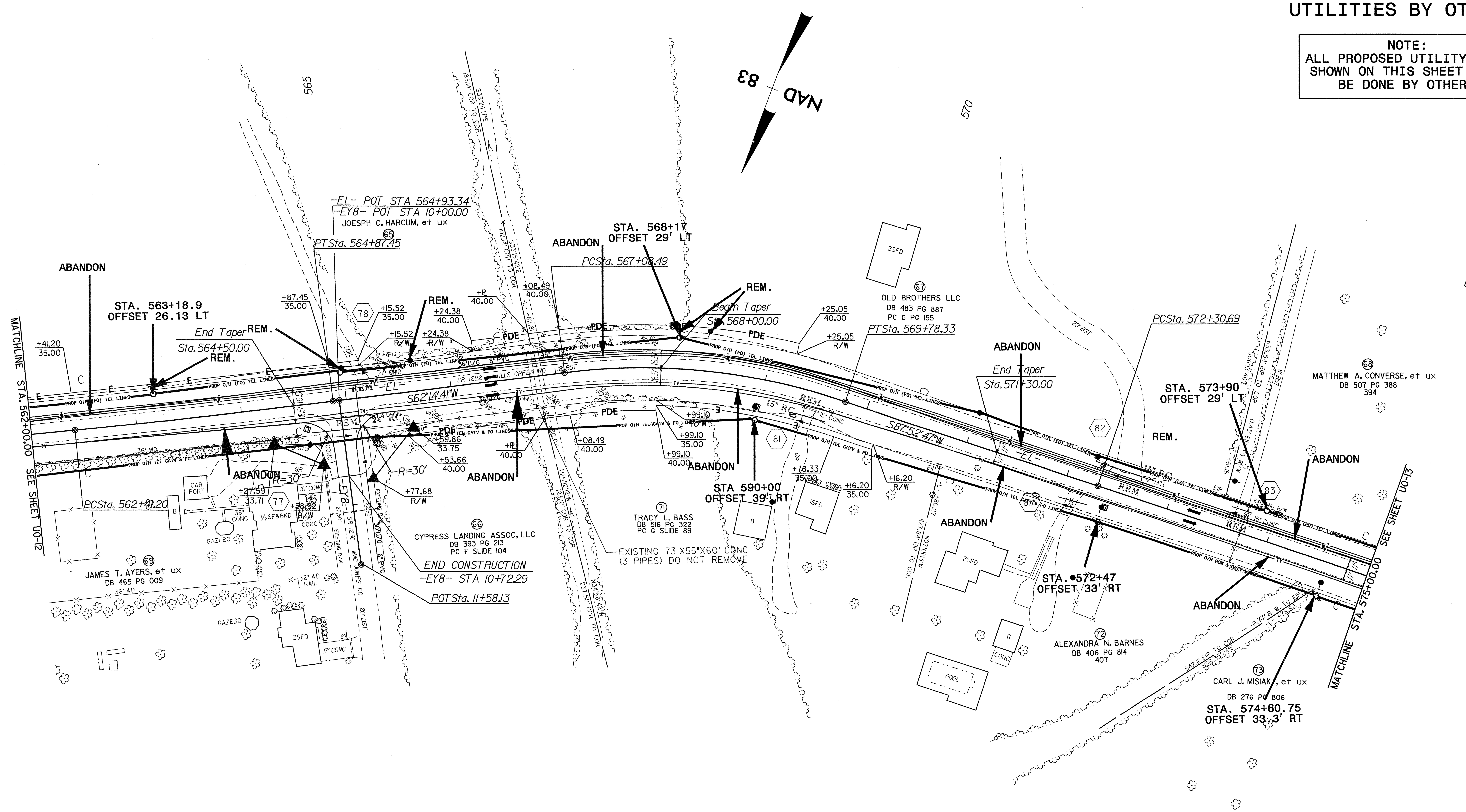
$$$$$USERNAME$$$$

PROJECT REFERENCE NO.	SHEET NO.
R-4429C	UO-12

UTILITIES BY OTHERS

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



-EL-	-EL-	-EL-
PI Sta 563+64.33	PI Sta 568+45.71	PI Sta 573+97.04
Δ = 1° 13' 52.4" (LT)	Δ = 25° 38' 05.6" (RT)	Δ = 0° 49' 54.2" (RT)
D = 0° 30' 00.0"	D = 9° 30' 00.0"	D = 0° 15' 00.0"
L = 246.24'	L = 269.84'	L = 332.69'
T = 123.13'	T = 137.22'	T = 166.35'
R = 11,459.16'	R = 603.11'	R = 22,918.31'

GRADE DITCHES AS FOLLOWS:

557+50 (GRADE BREAK) ⟶ WATER FLOW ⟶ 566+80 (CROSS LINE) LEFT SIDE
557+50 (GRADE BREAK) ⟶ WATER FLOW ⟶ 566+80 (OUTLET DITCH) RIGHT SIDE
566+80 (CROSS LINE) ⟵ WATER FLOW ⟵ 585+50 (GRADE BREAK) LEFT SIDE
566+80 (OUTLET DITCH) ⟵ WATER FLOW ⟵ 585+50 (GRADE BREAK) RIGHT SIDE

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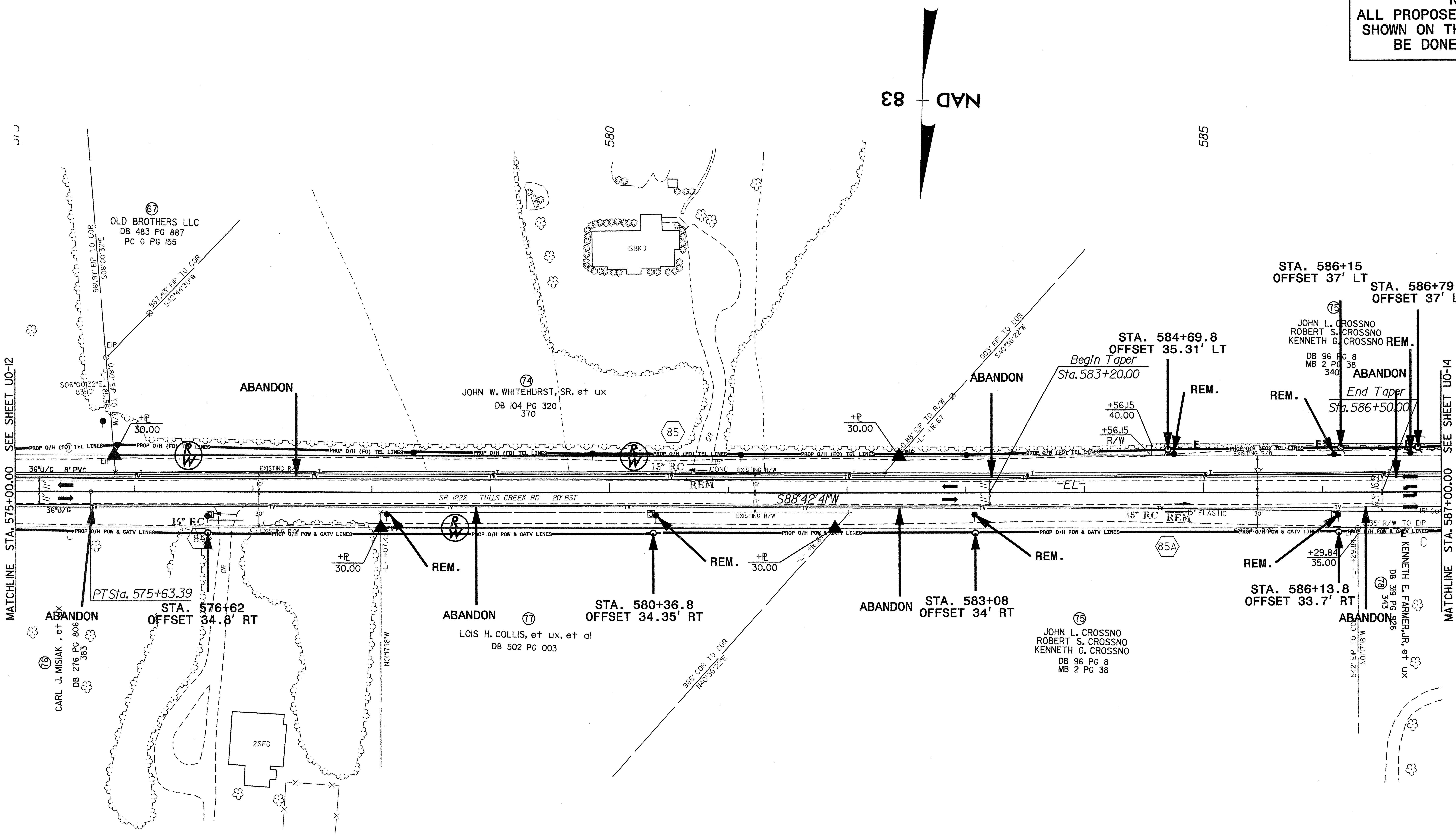
PROJECT REFERENCE NO.	SHEET NO.
R-4429C	UO-13

UTILITIES BY OTHERS

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



GRADE DITCHES AS FOLLOWS:

566+80 (CROSS LINE) ⟵ WATER FLOW ⟵ 585+00 (GRADE BREAK) LEFT SIDE
566+80 (OUTLET DITCH) ⟵ WATER FLOW ⟵ 585+00 (GRADE BREAK) RIGHT SIDE
585+00 (GRADE BREAK) ⟶ WATER FLOW ⟶ 590+40 (CROSS LINE) LEFT SIDE
585+00 (GRADE BREAK) ⟶ WATER FLOW ⟶ 590+40 (OUTLET DITCH) RIGHT SIDE

5/14/99

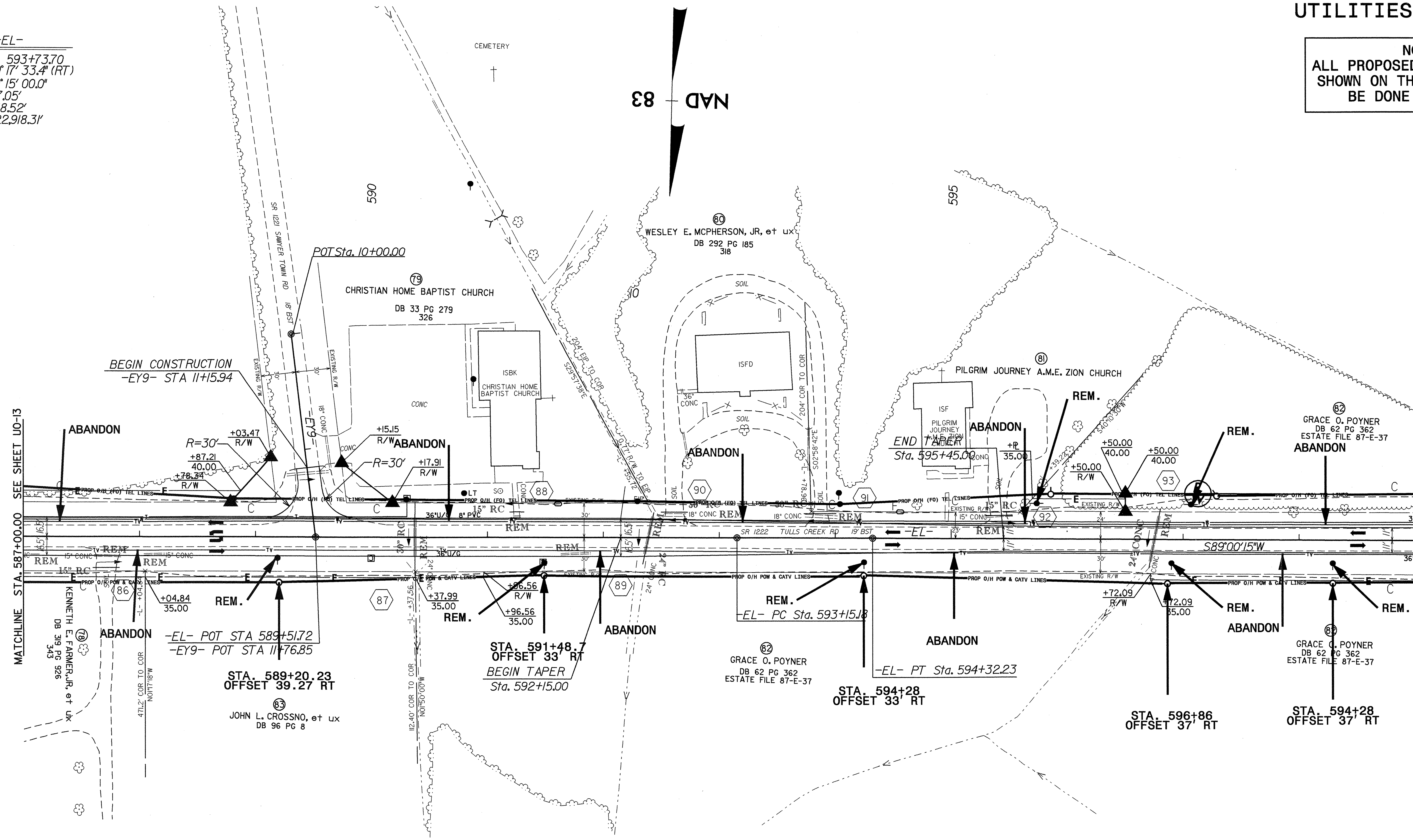
28-FEB-2007 14:56

PROJECT REFERENCE NO.	SHEET NO.
R-4429C	UO-14

UTILITIES BY OTHERS

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

-EL-
PI Sta 593+73.70
Δ = 0° 17' 33.4" (RT)
D = 0° 15' 00.0"
L = 117.05'
T = 58.52'
R = 22,918.31'



GRADE DITCHES AS FOLLOWS:

585+00 (GRADE BREAK)	⟶	WATER FLOW	⟶	590+40 (CROSS LINE) LEFT SIDE
585+00 (GRADE BREAK)	⟶	WATER FLOW	⟶	590+40 (OUTLET DITCH) RIGHT SIDE
590+40 (CROSS LINE)	⟵	WATER FLOW	⟵	591+25 (GRADE BREAK) LEFT SIDE
590+40 (OUTLET DITCH)	⟵	WATER FLOW	⟵	591+75 GRADE BREAK) RIGHT SIDE
591+25 (GRADE BREAK)	⟶	WATER FLOW	⟶	592+45 (CROSS LINE) LEFT SIDE
591+75 (GRADE BREAK)	⟶	WATER FLOW	⟶	592+35 (OUTLET DITCH) RIGHT SIDE
592+35 (OUTLET DITCH)	⟵	WATER FLOW	⟵	596+55 (GRADE BREAK) RIGHT SIDE
592+45 (CROSS LINE)	⟵	WATER FLOW	⟵	595+00 (GRADE BREAK) LEFT SIDE
596+55 (GRADE BREAK)	⟶	WATER FLOW	⟶	596+80 (OUTLET DITCH) RIGHT SIDE
595+00 (GRADE BREAK)	⟶	WATER FLOW	⟶	596+80 (CROSS LINE) LEFT SIDE
596+80 (OUTLET DITCH)	⟵	WATER FLOW	⟵	600+00 (GRADE BREAK) RIGHT SIDE
596+80 (CROSS LINE)	⟵	WATER FLOW	⟵	600+00 (GRADE BREAK) LEFT SIDE

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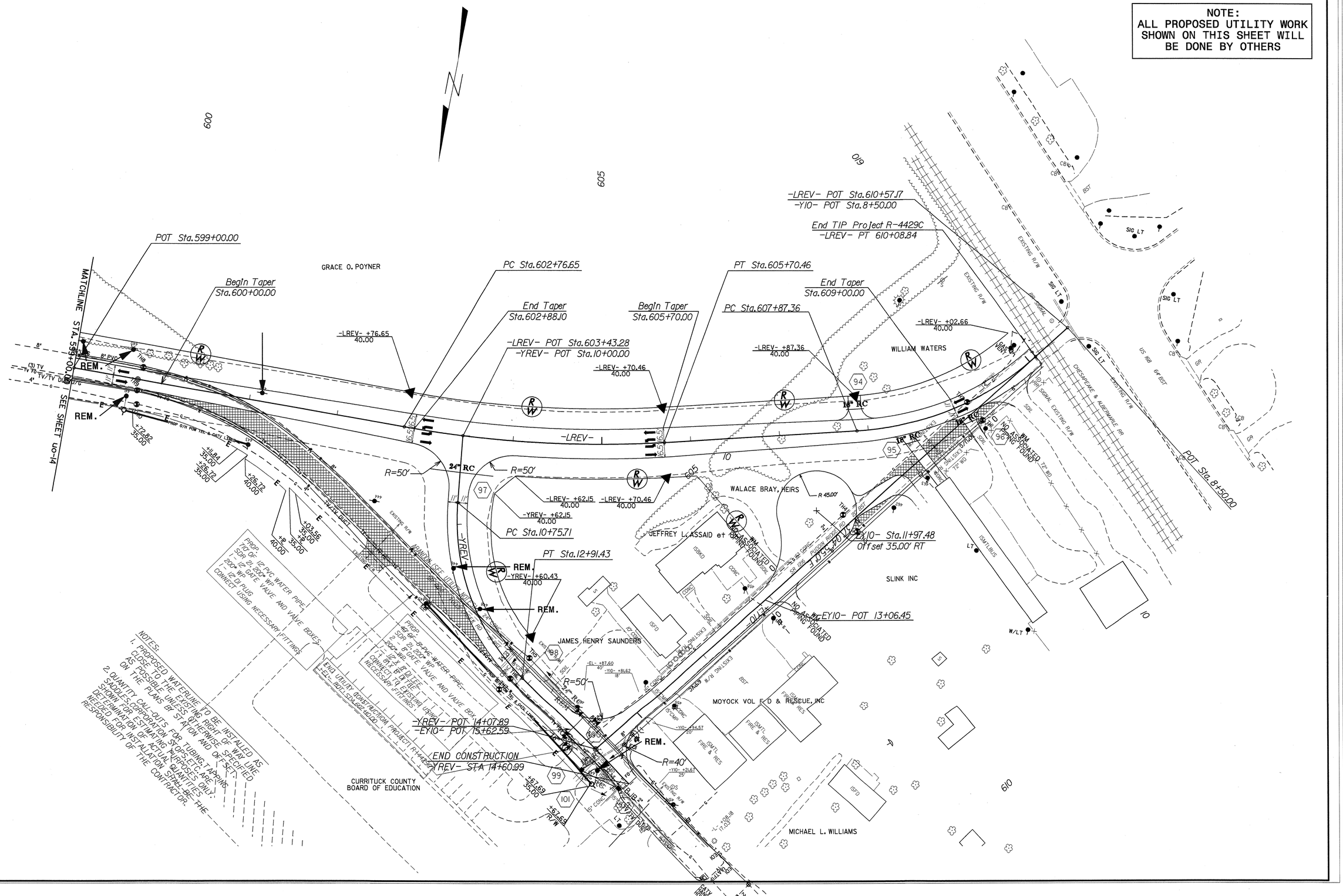
PROJECT REFERENCE NO.	SHEET NO.
R-4429C	UO-15

UTILITIES BY OTHERS

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



PROP.
710' OF 12" PVC WATER PIPE,
SDR 21, 200# WP
1 - 12" GATE VALVE AND VALVE BOXES,
200# WP
1 - 12" DI PLUG
CONNECT USING NECESSARY FITTINGS

PROP.
~~40' OF 8" PVC WATER PIPE,~~
SDR 21, 200# WP
2 - 8" GATE VALVE AND VALVE BOX,
200# WP
1 - 12" X 8" DI TEE
1 - 8" X 8" DI TEE
CONNECT TO EXISTING USING
NECESSARY FITTINGS.

NOTES:

1. PROPOSED WATERLINE TO BE INSTALLED AS CLOSE TO THE EXISTING RIGHT OF WAY LINE AS POSSIBLE UNLESS OTHERWISE SPECIFIED ON THE PLANS BY STATION AND OFFSET.
2. QUANTITY CALL-OUTS FOR TUBING, TAPPING SADDLES, CORPORATION STOPS, ETC. ARE SHOWN FOR ESTIMATING PURPOSES ONLY. DETERMINATION OF ACTUAL QUANTITIES NEEDED FOR INSTALLATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

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