

**TIP PROJECT: P-5206B**

**CONTRACT:**

STATE OF NORTH CAROLINA  
NCDOT RAIL DIVISION

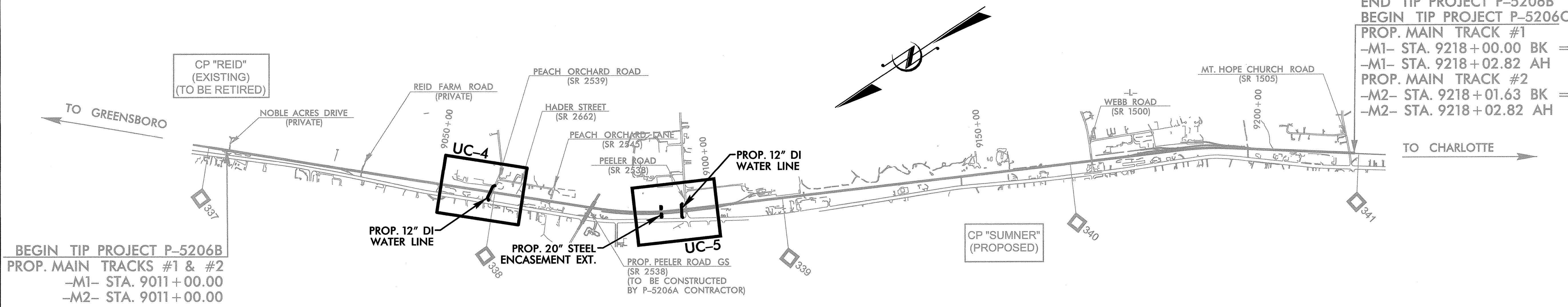
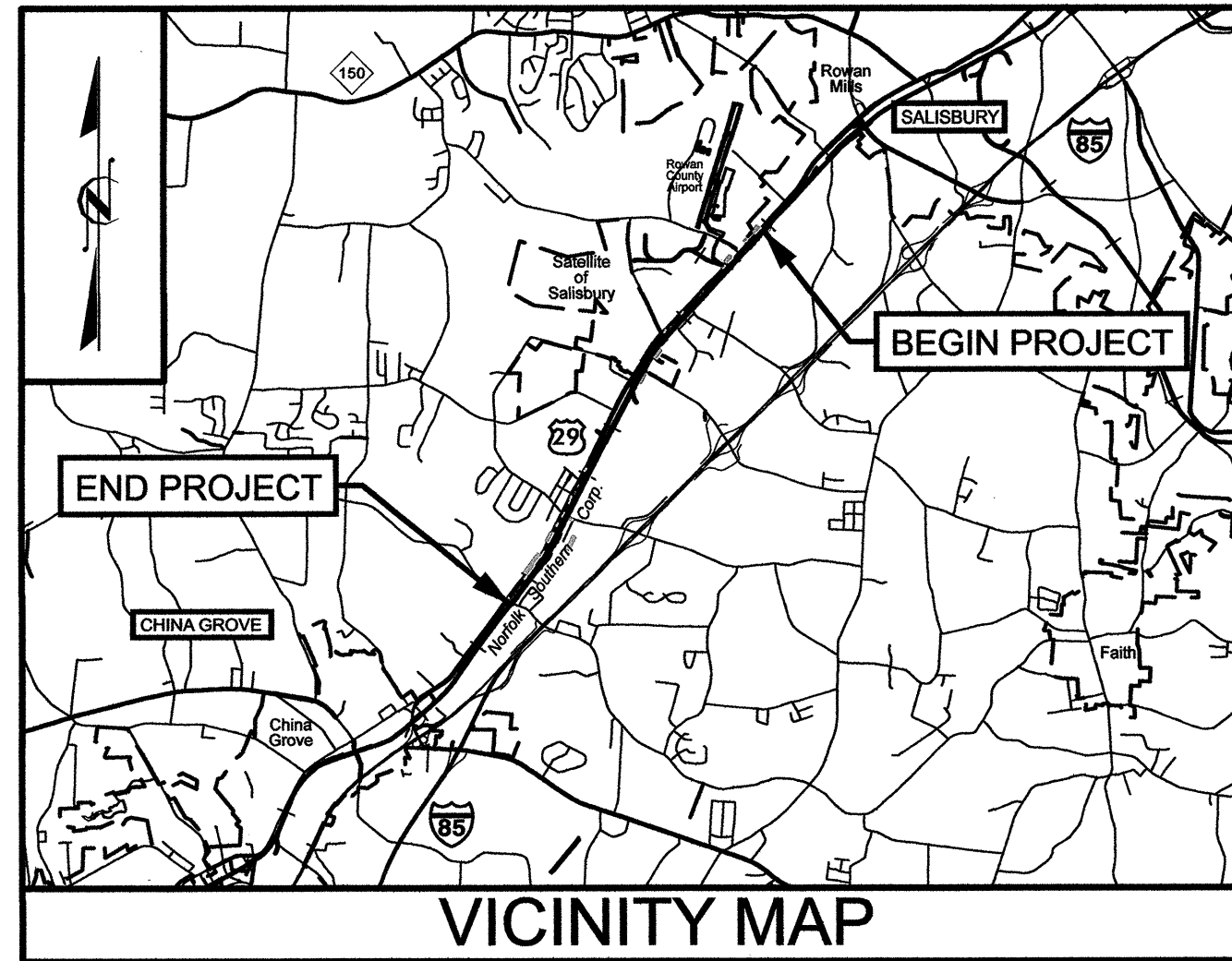
T.I.P. NO.	SHEET NO.
P-5206B	UC-1



# UTILITY CONSTRUCTION PLANS ROWAN COUNTY

**LOCATION: CP "REID" (MP 337.1) TO SOUTH OF MT. HOPE CHURCH ROAD (MP 340.9) ON THE NCRRNS MAINLINE**

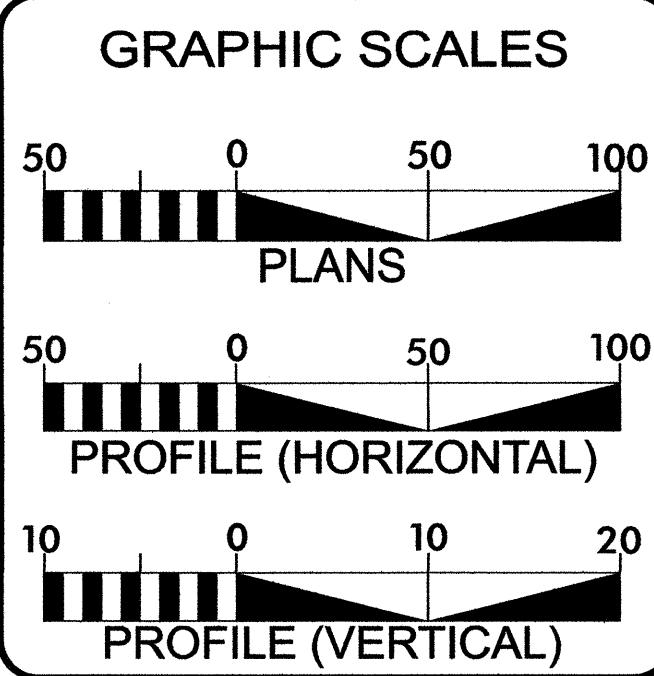
**TYPE OF WORK: UTILITY CONSTRUCTION**



END TIP PROJECT P-5206B  
BEGIN TIP PROJECT P-5206C  
PROP. MAIN TRACK #1  
-M1- STA. 9218+00.00 BK =  
-M1- STA. 9218+02.82 AH  
PROP. MAIN TRACK #2  
-M2- STA. 9218+01.63 BK =  
-M2- STA. 9218+02.82 AH

BEGIN TIP PROJECT P-5206B  
PROP. MAIN TRACKS #1 & #2  
-M1- STA. 9011+00.00  
-M2- STA. 9011+00.00

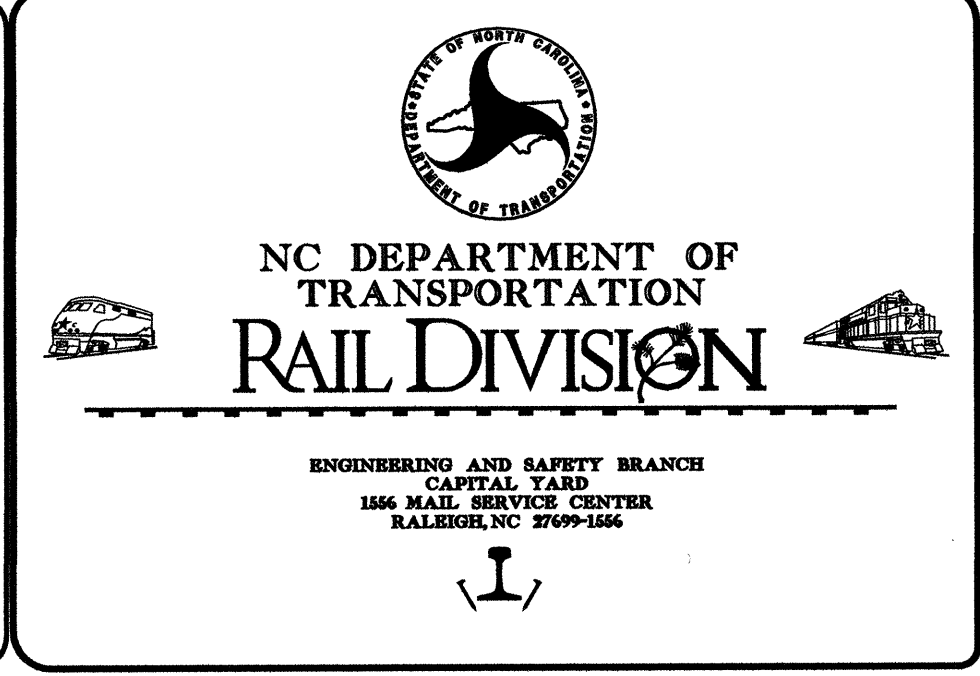
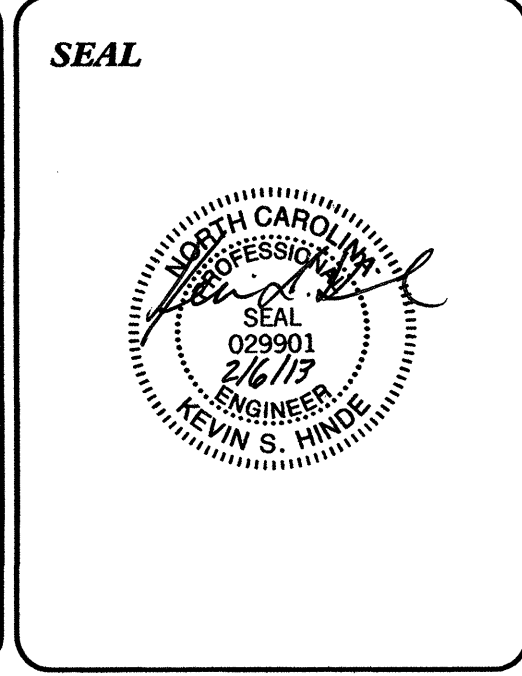
CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED IN METHOD III.  
THIS PROJECT IS WITHIN THE MUNICIPAL BOUNDARIES OF ROWAN COUNTY.



SHEET NO.	DESCRIPTION
UC-1	TITLE SHEET
UC-2	UTILITY SYMBOLOGY SHEET
UC-3	GENERAL NOTES SHEET
UC-4 THRU UC-5	UTILITY CONSTRUCTION SHEETS
UC-6	PROFILE SHEET

**WATER AND SEWER OWNERS ON PROJECT**

(1) WATER - SALISBURY-ROWAN UTILITIES  
(2) SEWER - SALISBURY-ROWAN UTILITIES



STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**UTILITIES PLAN SHEET SYMBOLS**



PROJECT REFERENCE NO. P-5206B	SHEET NO. UC-2
DESIGNED BY: CLS	
DRAWN BY: CLS	
CHECKED BY: KSH	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
UTILITY CONSTRUCTION PLANS ONLY	

**PROPOSED WATER SYMBOLS**

Water Line (Sized as Shown)	----- 12" WL -----
11¼ Degree Bend	----- 11.25 -----
22½ Degree Bend	----- 22.5 -----
45 Degree Bend	----- 45 -----
90 Degree Bend	----- 90 -----
Plug	----- PLUG -----
Tee	----- TEE -----
Cross	----- CROSS -----
Reducer	----- REDUCER -----
Gate Valve	----- GV -----
Butterfly Valve	----- BV -----
Tapping Valve	----- TV -----
Line Stop	----- LS -----
Line Stop with Bypass	----- LS/BP -----
Blow Off	----- BO -----
Fire Hydrant	----- FH -----
Relocate Fire Hydrant	----- REH -----
Remove Fire Hydrant	----- REM FH -----
Water Meter	----- WM -----
Relocate Water Meter	----- RWM -----
Remove Water Meter	----- REM WM -----
Water Pump Station	----- PS(W) -----
RPZ Backflow Preventer	----- PRPZ -----
DCV Backflow Preventer	----- DBFP -----
Relocate RPZ Backflow Preventer	----- RRPZ -----
Relocate DCV Backflow Preventer	----- RDBFP -----

**PROPOSED SEWER SYMBOLS**

Gravity Sewer Line (Sized as Shown)	----- 12" SS -----
Force Main Sewer Line (Sized as Shown)	----- 12" FSS -----
Manhole (Sized per Note)	----- MH -----
Sewer Pump Station	----- PS(SS) -----

**PROPOSED MISCELLANEOUS UTILITIES SYMBOLS**

Power Pole	----- P -----
Telephone Pole	----- TEL -----
Joint Use Pole	----- J -----
Telephone Pedestal	----- TEL PED -----
Utility Line by Others (Type as Shown)	----- PROP O/H POW LINES -----
Trenchless Installation	----- 12" TL INSTALL -----
Encasement by Open Cut	----- 24" ENCAS BY OC -----
Encasement	----- 24" ENCASMENT -----

Thrust Block	----- TB -----
Air Release Valve	----- AR -----
Utility Vault	----- UV -----
Concrete Pier	----- CP -----
Steel Pier	----- SP -----
Plan Note	----- NOTE -----
Pay Item Note	----- PAY ITEM -----

**EXISTING UTILITIES SYMBOLS**

Power Pole	----- P -----	*Underground Power Line	----- P -----
Telephone Pole	----- TEL -----	*Underground Telephone Cable	----- T -----
Joint Use Pole	----- J -----	*Underground Telephone Conduit	----- TC -----
Utility Pole	----- U -----	*Underground Fiber Optics Telephone Cable	----- T FO -----
Utility Pole with Base	----- U -----	*Underground TV Cable	----- TV -----
H-Frame Pole	----- H -----	*Underground Fiber Optics TV Cable	----- TV FO -----
Power Transmission Line Tower	----- X -----	*Underground Gas Pipeline	----- G -----
Water Manhole	----- W -----	Aboveground Gas Pipeline	----- A/G Gas -----
Power Manhole	----- P -----	*Underground Water Line	----- W -----
Telephone Manhole	----- T -----	Aboveground Water Line	----- A/G Water -----
Sanitary Sewer Manhole	----- S -----	*Underground Gravity Sanitary Sewer Line	----- SS -----
Hand Hole for Cable	----- H -----	Aboveground Gravity Sanitary Sewer Line	----- A/G Sanitary Sewer -----
Power Transformer	----- T -----	*Underground SS Forced Main Line	----- FSS -----
Telephone Pedestal	----- TEL -----	Underground Unknown Utility Line	----- RUTL -----
CATV Pedestal	----- CATV -----	SUE Test Hole	----- SUE -----
Gas Valve	----- G -----	Water Meter	----- W -----
Gas Meter	----- G -----	Water Valve	----- W -----
Located Miscellaneous Utility Object	----- L -----	Fire Hydrant	----- FH -----
Abandoned According to Utility Records	----- AATUR -----	Sanitary Sewer Cleanout	----- SSC -----
End of Information	----- E.O.I. -----		

\*For Existing Utilities  
 Utility Line Drawn from Record .....  
 (Type as Shown)  
 Designated Utility Line .....  
 (Type as Shown)

**UTILITY CONSTRUCTION**



7520 E. Independence Blvd., Suite 230 Charlotte, NC 28227

LOCATION: CP "REID" (MP 337.1) TO SOUTH OF MT. HOPE CHURCH ROAD (MP 340.9) ON THE NCR RN5 MAINLINE	
TIP NO.: P-5206B	COUNTY: ROWAN
DESIGNED BY: CLS	
CHECKED BY: KSH	DATE: 2-6-2013

# UTILITY CONSTRUCTION



PROJECT REFERENCE NO. P-5206B	SHEET NO. UC-3
DESIGNED BY: CLS	
DRAWN BY: CLS	
CHECKED BY: KSH	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	

## UTILITY CONSTRUCTION



### GENERAL NOTES:

1. THE PROPOSED UTILITY CONSTRUCTION SHALL MEET THE APPLICABLE REQUIREMENTS OF THE NC DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES" DATED JANUARY 2012.
2. THE EXISTING WATER AND SEWER FACILITIES BELONG TO THE CITY OF SALIBURY.
3. ALL WATER LINES TO BE INSTALLED WITHIN COMPLIANCE OF THE RULES AND REGULATIONS OF THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL AND NATURAL RESOURCES, DIVISION OF ENVIRONMENTAL HEALTH. ALL SEWER LINES TO BE INSTALLED WITHIN COMPLIANCE OF THE RULES AND REGULATIONS OF THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES, DIVISION OF WATER QUALITY. PERFORM ALL WORK IN ACCORDANCE WITH THE APPLICABLE PLUMBING CODES.
4. THE UTILITY OWNER OWNS THE EXISTING UTILITY FACILITIES AND WILL OWN THE NEW UTILITY FACILITIES AFTER ACCEPTANCE BY THE DEPARTMENT. THE DEPARTMENT OWNS THE CONSTRUCTION CONTRACT AND HAS ADMINISTRATIVE AUTHORITY. COMMUNICATIONS AND DECISIONS BETWEEN THE CONTRACTOR AND UTILITY OWNER ARE NOT BINDING UPON THE DEPARTMENT OR THIS CONTRACT UNLESS AUTHORIZED BY THE ENGINEER. AGREEMENTS BETWEEN THE UTILITY OWNER AND CONTRACTOR FOR THE WORK THAT IS NOT PART OF THIS CONTRACT OR IS SECONDARY TO THIS CONTRACT ARE ALLOWED, BUT ARE NOT BINDING UPON THE DEPARTMENT.
5. PROVIDE ACCESS FOR THE DEPARTMENT PERSONNEL AND THE OWNER'S REPRESENTATIVES TO ALL PHASES OF CONSTRUCTION. NOTIFY DEPARTMENT PERSONNEL AND THE UTILITY OWNER TWO WEEKS PRIOR TO COMMENCEMENT OF ANY WORK AND ONE WEEK PRIOR TO SERVICE INTERRUPTION. KEEP UTILITY OWNERS' REPRESENTATIVES INFORMED OF WORK PROGRESS AND PROVIDE OPPROTUNITY FOR INSPECTION OF CONSTRUCTION AND TESTING.

6. THE PLANS DEPICT THE BEST AVAILABLE INFORMATION FOR THE LOCATION, SIZE, AND TYPE OF MATERIAL FOR ALL EXISTING UTILITIES. MAKE INVESTIGATIONS FOR DETERMINING THE EXACT LOCATION, SIZE, AND TYPE MATERIAL OF THE EXISTING FACILITIES AS NECESSARY FOR THE CONSTRUCTION OF THE PROPOSED UTILITIES AND FOR AVOIDING DAMAGE TO EXISTING FACILITIES. REPAIR ANY DAMAGE INCURRED TO EXISTING FACILITIES TO THE ORIGINAL OR BETTER CONDITION AT NO ADDITIONAL COST TO THE DEPARTMENT.
7. MAKE FINAL CONNECTIONS OF THE NEW WORK TO THE EXISTING SYSTEM WHERE INDICATED ON THE PLANS, AS REQUIRED TO FIT THE ACTUAL CONDITIONS, OR AS DIRECTED.
8. MAKE CONNECTIONS BETWEEN EXISTING AND PROPOSED UTILITIES AT TIMES MOST CONVENIENT TO THE PUBLIC, WITHOUT ENDANGERING THE UTILITY SERVICE, AND IN ACCORDANCE WITH THE UTILITY OWNER'S REQUIREMENTS. MAKE CONNECTIONS ON WEEKENDS, AT NIGHT, AND ON HOLIDAYS IF NECESSARY.
9. ALL UTILITY MATERIALS SHALL BE APPROVED PRIOR TO DELIVERY TO THE PROJECT. SEE 1500-7, " SUBMITTALS AND RECORDS" IN SECTION 1500 OF THE STANDARD SPECIFICATIONS.

### LIST OF STANDARD DRAWINGS

- 1515.01 WATER METER
- 1515.02 FIRE HYDRANT
- 1520.01 SEWER CLEAN OUT

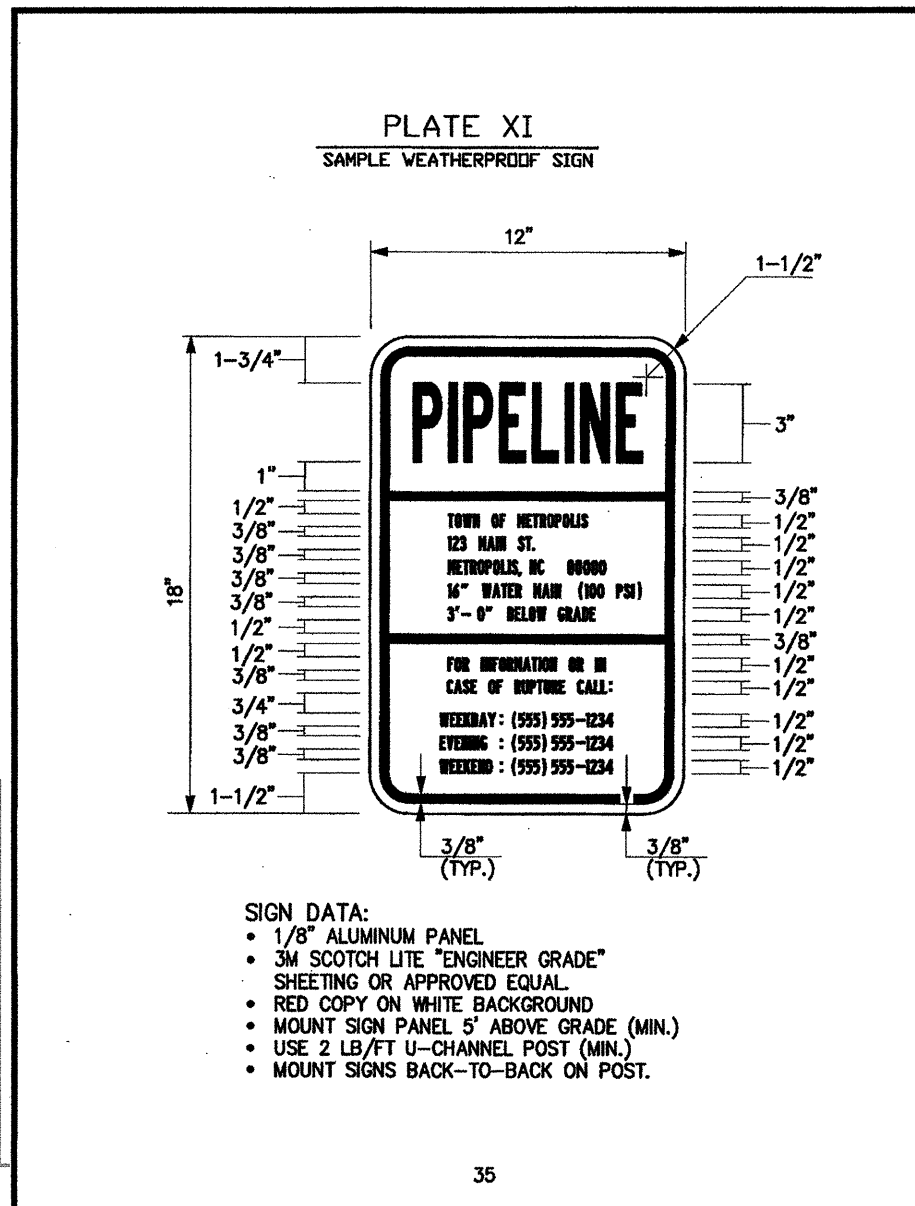
### PROJECT SPECIFIC NOTES:

1. ALL WORK WITHIN NCRR R/W TO BE PERFORMED IN ACCORDANCE WITH NORTH CAROLINA RAILROAD SPECIFICATIONS NCR 101, 102 AND 103.
2. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH "CITY OF SALISBURY UNIFORM CONSTRUCTION STANDARDS AND SPECIFICATIONS".
3. THE UTILITY OWNER (CITY OF SALISBURY/SALISBURY-ROWAN UTILITIES) INSPECTOR SHALL BE PRESENT FOR ALL WATER AND SEWER TESTING, CHLORINATION OF THE WATER LINES, AND ALL TIE-INS. (SRU) INSPECTOR WILL ALSO BE COLLECTING WATER SAMPLES FOR BACTERIOLOGICAL TESTING AT THE WATER PLANT (STATE CERTIFIED LAB).
4. NO WATER TIE-INS SHALL BE COMPLETED UNTIL ALL LINES HAVE BEEN PRESSURE TESTED, STERILIZED, PASSED BACTERIOLOGICAL TESTING, AND APPROVED BY THE CITY/SRU.

LOCATION: CP "REID" (MP 337.1) TO SOUTH OF MT. HOPE CHURCH ROAD (MP 340.9) ON THE NCRRNS MAINLINE	
TIP NO.: P-5206B	COUNTY: ROWAN
DESIGNED BY: CLS	
CHECKED BY: KSH	DATE: 2-6-2013

REVISIONS		
1	4-3-13	REMOVED AIR RELEASE VALVES, MODIFIED NOTES, DIMENSIONS, ETC. PER NCRR COMMENTS

**NCRR STANDARD DETAIL**  
NCR 102 4.7



- SIGN DATA:**
- 1/8" ALUMINUM PANEL
  - 3M SCOTCH LITE "ENGINEER GRADE" SHEETING OR APPROVED EQUAL
  - RED COPY ON WHITE BACKGROUND
  - MOUNT SIGN PANEL 5" ABOVE GRADE (MIN.)
  - USE 2 LB/FT U-CHANNEL POST (MIN.)
  - MOUNT SIGNS BACK-TO-BACK ON POST.

PLAN SHEET UC-4 CORRESPONDS TO RAIL DESIGN SHEET 7

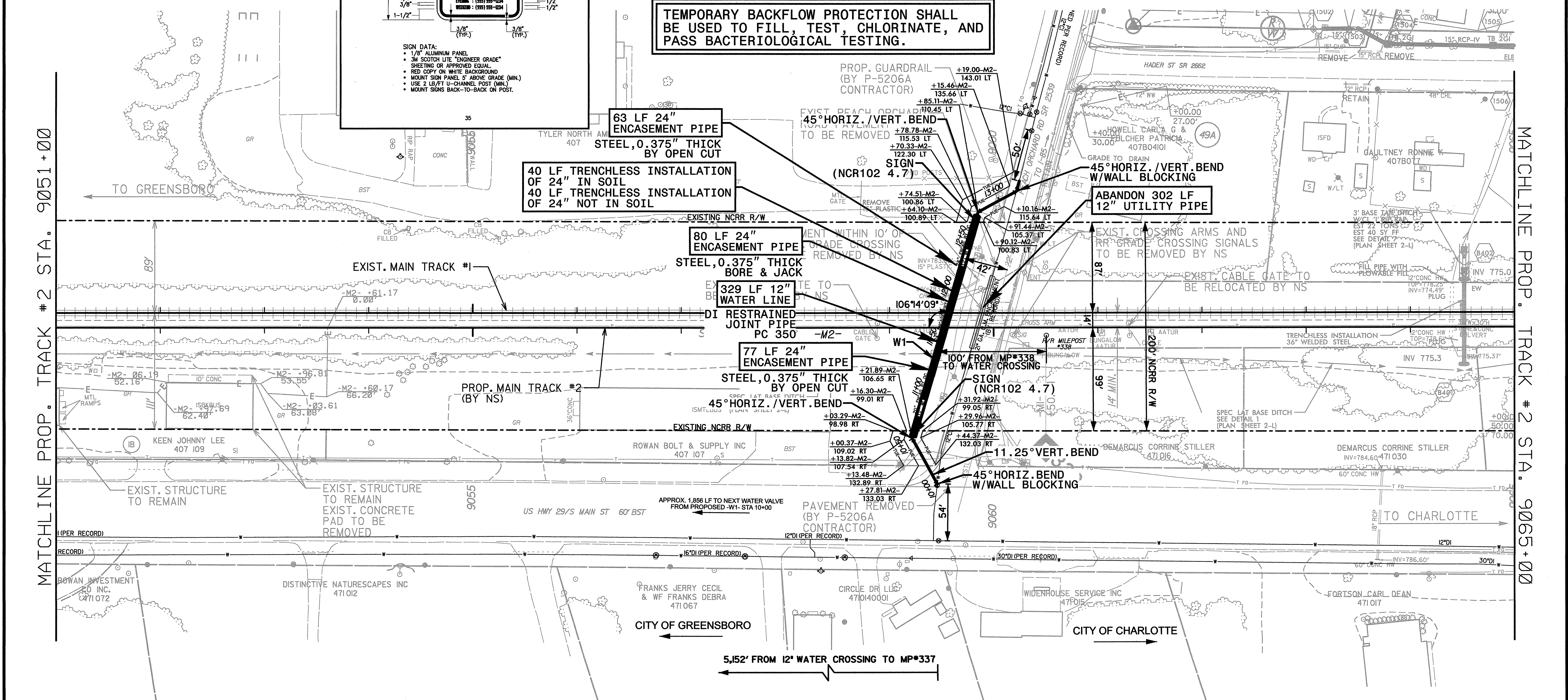


PROJECT REFERENCE NO. P-5206B	SHEET NO. UC-4
DESIGNED BY: CLS	
DRAWN BY: CLS	
CHECKED BY: KSH	
APPROVED BY:	
REVISER:	UTILITY CONSTRUCTION PLANS ONLY
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	

**UTILITY CONSTRUCTION**



AAR/DOT# - 724-367W



TEMPORARY BACKFLOW PROTECTION SHALL BE USED TO FILL, TEST, CHLORINATE, AND PASS BACTERIOLOGICAL TESTING.

63 LF 24" ENCASUREMENT PIPE  
STEEL, 0.375" THICK BY OPEN CUT

40 LF TRENCHLESS INSTALLATION OF 24" IN SOIL  
40 LF TRENCHLESS INSTALLATION OF 24" NOT IN SOIL

80 LF 24" ENCASUREMENT PIPE  
STEEL, 0.375" THICK BORE & JACK

329 LF 12" WATER LINE  
RESTRAINED JOINT PIPE  
PC 350

77 LF 24" ENCASUREMENT PIPE  
STEEL, 0.375" THICK BY OPEN CUT

45° HORIZ. / VERT. BEND

ABANDON 302 LF 12" UTILITY PIPE

11.25° VERT. BEND

45° HORIZ. BEND W/WALL BLOCKING

EXISTING WATER & SEWER LINES WITHIN NCRR R/W TO BE REPLACED SHALL BE ABANDONED AND FILLED IN ACCORDANCE WITH NORTH CAROLINA RAILROAD SPECIFICATIONS NCR 102 SECTION 2.6.

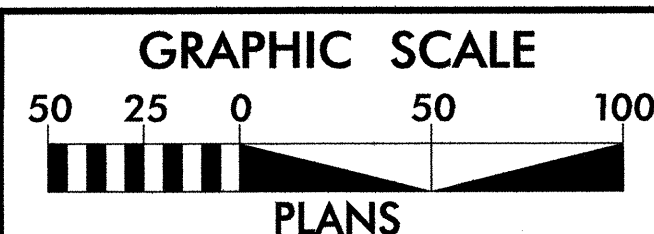
ALL WORK WITHIN NCRR R/W TO BE PERFORMED IN ACCORDANCE WITH NORTH CAROLINA RAILROAD SPECIFICATIONS NCR 101, 102 AND 103.

LOCATION:  
CP "REID" (MP 337.1) TO SOUTH OF MT. HOPE CHURCH ROAD (MP 340.9) ON THE NCRR'S MAINLINE

TIP NO.: P-5206B COUNTY: ROWAN

DESIGNED BY: CLS

CHECKED BY: KSH DATE: 2-6-2013



REVISIONS		
1	4-3-13	EXTENDED 20" ENCASUREMENT, REMOVED AIR RELEASE VALVE, MODIFIED NOTES, DIMENSIONS, ETC. PER NCRR COMMENTS

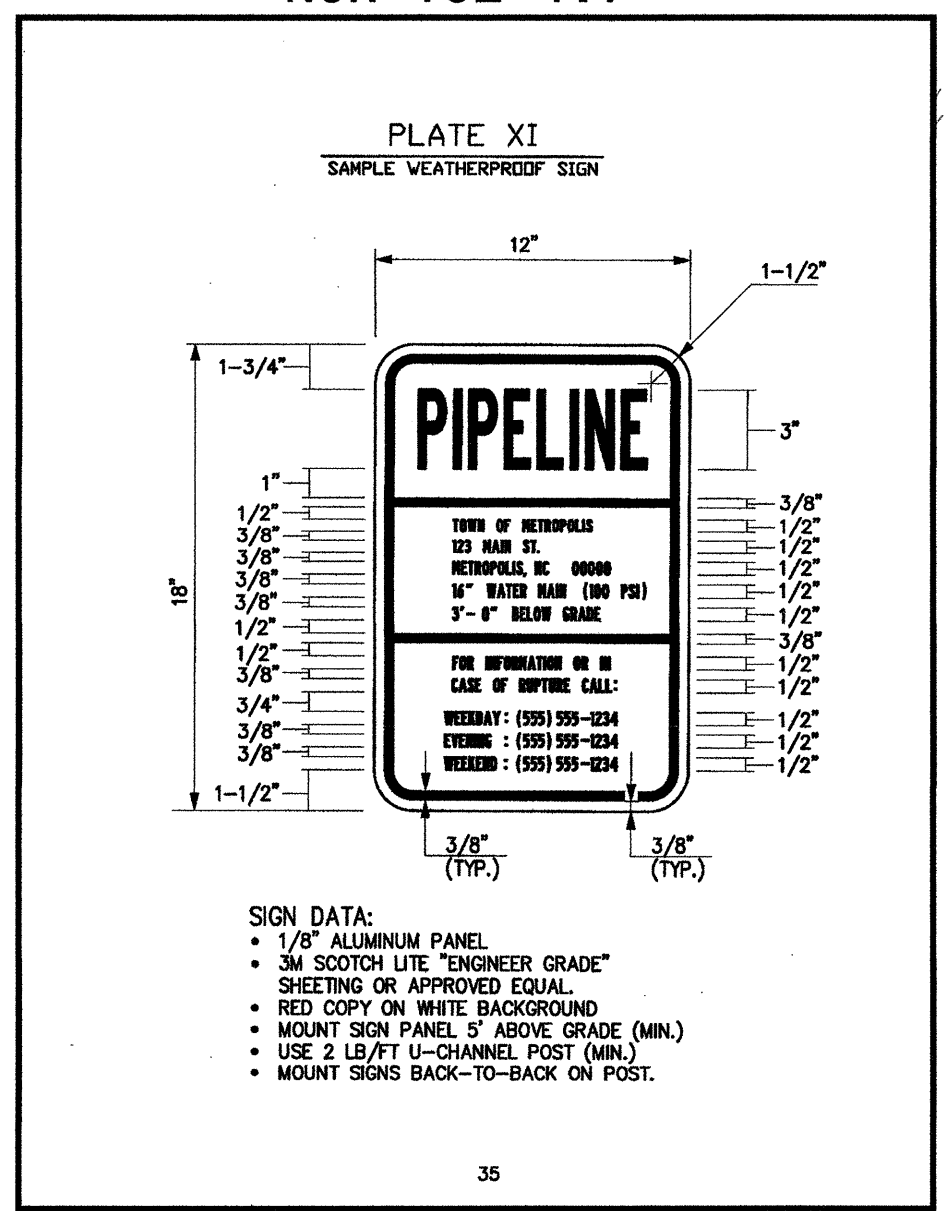
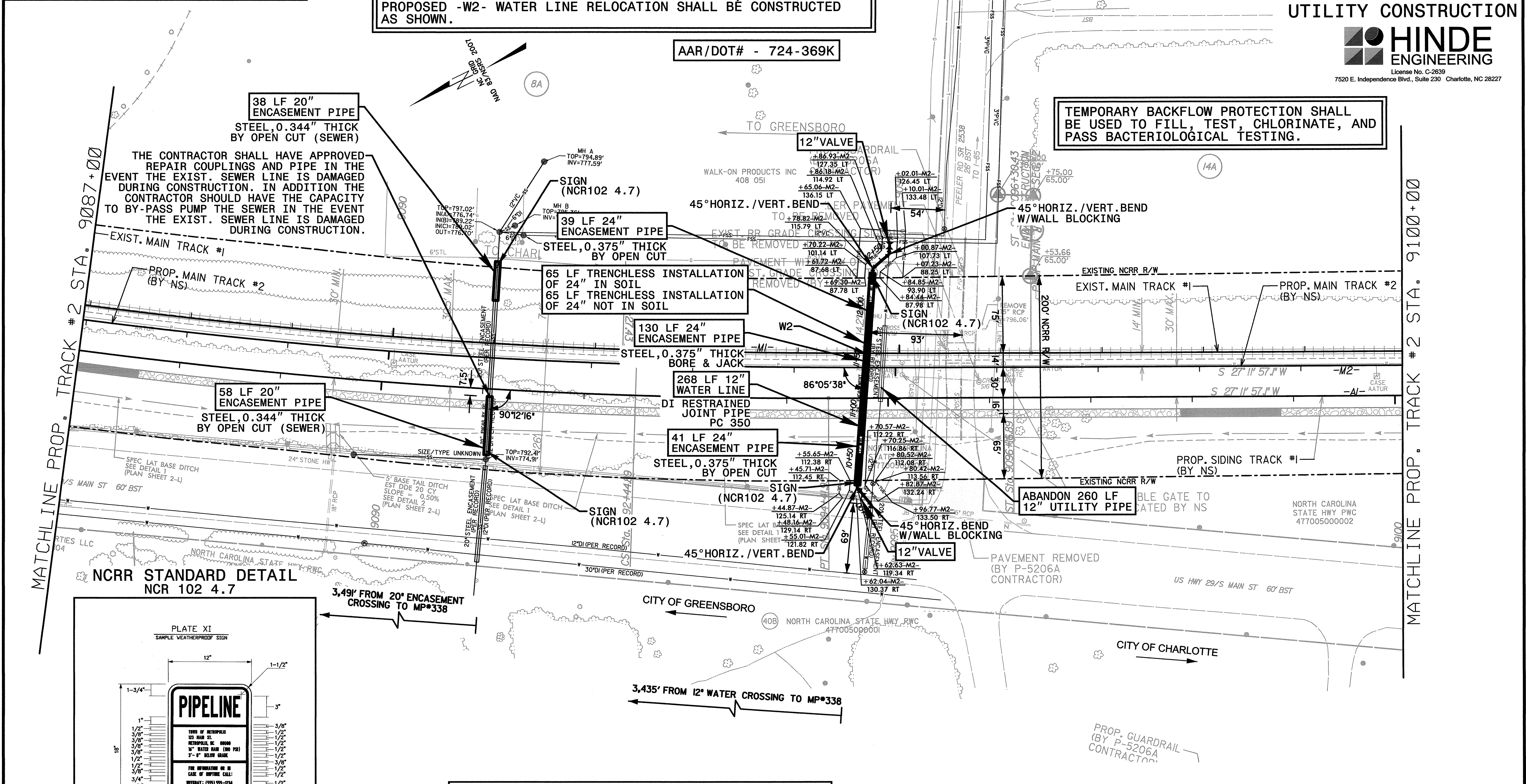
CONTRACTOR SHALL VERIFY THE DEPTH OF THE EXISTING 12" DI WATER LINE AT -M2- STA 9094+82.27 (68.96 RT). IF 3.0 FEET OF COVER CAN BE MAINTAINED OVER THE EXISTING 12" DI WATER LINE AFTER THE PROPOSED DITCH IS CONSTRUCTED, THEN THE PROPOSED -W2- WATER LINE RELOCATION AND ASSOCIATED APPURTENANCES CAN BE ELIMINATED. IF 3.0 FEET OF COVER CANNOT BE MAINTAINED OVER THE EXISTING 12" DI WATER LINE AFTER THE PROPOSED DITCH IS CONSTRUCTED, THEN THE PROPOSED -W2- WATER LINE RELOCATION SHALL BE CONSTRUCTED AS SHOWN.

PLAN SHEET UC-5 CORRESPONDS TO RAIL DESIGN SHEETS 9 & 10



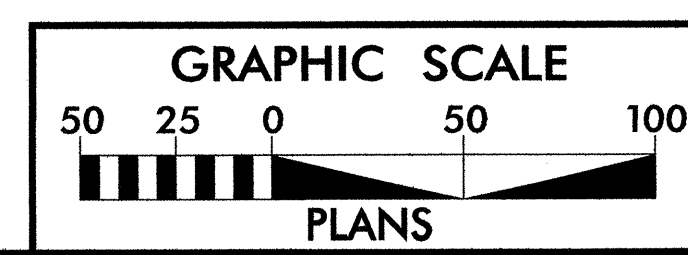
PROJECT REFERENCE NO. P-5206B	SHEET NO. UC-5
DESIGNED BY: CLS	DRAWN BY: CLS
CHECKED BY: KSH	APPROVED BY:
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
UTILITY CONSTRUCTION PLANS ONLY	

UTILITY CONSTRUCTION  
**HINDE ENGINEERING**  
 License No. C-2639  
 7520 E. Independence Blvd., Suite 230 Charlotte, NC 28227



EXISTING WATER & SEWER LINES WITHIN NCRR R/W TO BE REPLACED SHALL BE ABANDONED AND FILLED IN ACCORDANCE WITH NORTH CAROLINA RAILROAD SPECIFICATIONS NCR 102 SECTION 2.6.

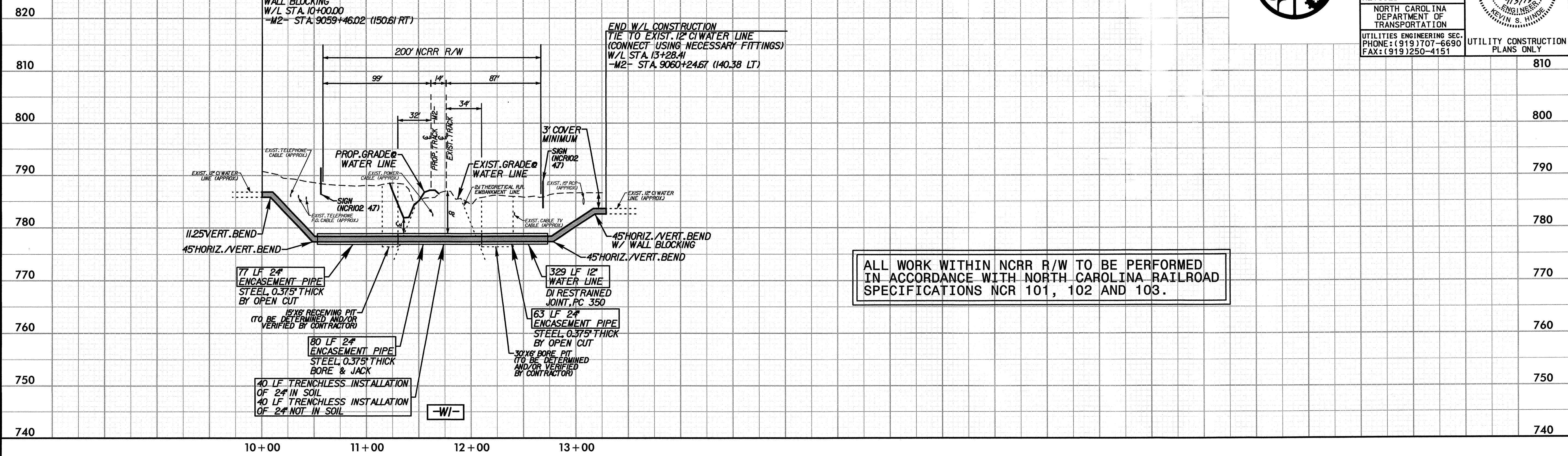
ALL WORK WITHIN NCRR R/W TO BE PERFORMED IN ACCORDANCE WITH NORTH CAROLINA RAILROAD SPECIFICATIONS NCR 101, 102 AND 103.



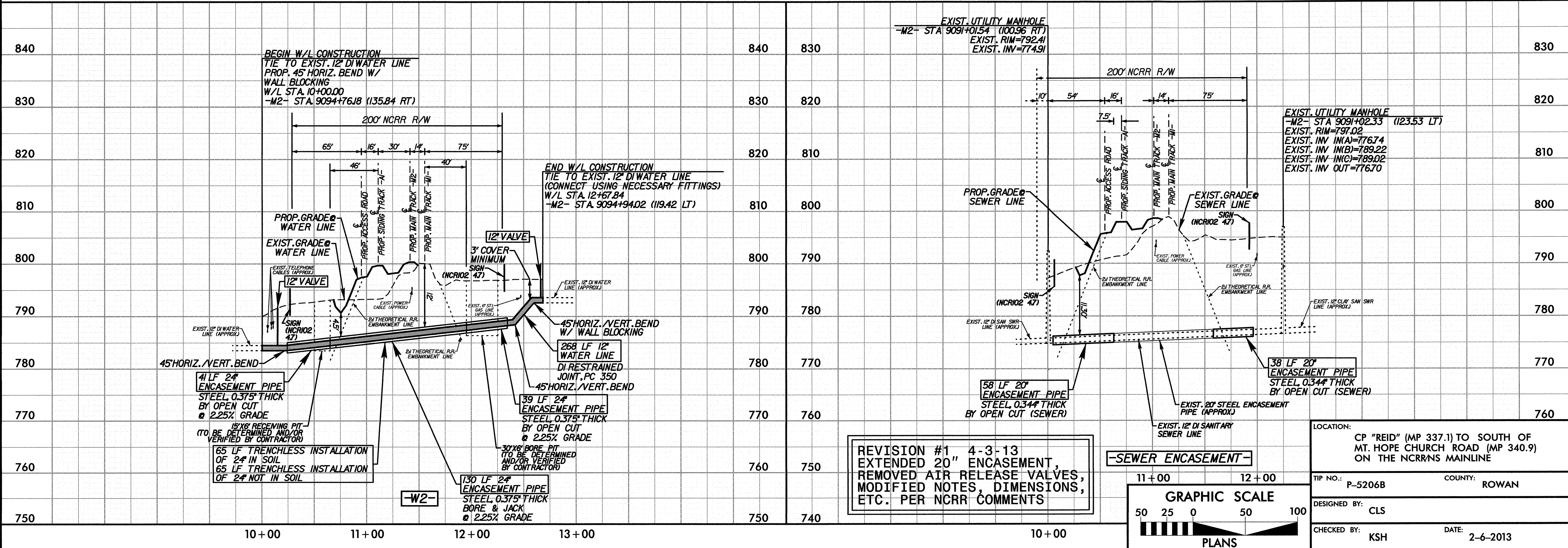
LOCATION: CP "REID" (MP 337.1) TO SOUTH OF MT. HOPE CHURCH ROAD (MP 340.9) ON THE NCRRS MAINLINE
TIP NO.: P-5206B COUNTY: ROWAN
DESIGNED BY: CLS
CHECKED BY: KSH DATE: 2-6-2013



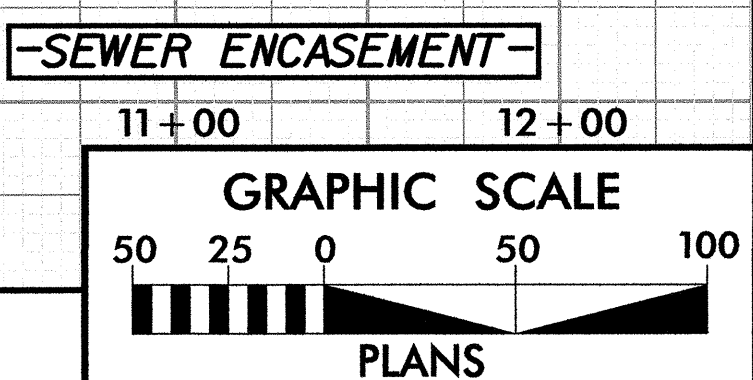
PROJECT REFERENCE NO. P-5206B	SHEET NO. UC-6
DESIGNED BY: CLS	
DRAWN BY: CLS	
CHECKED BY: KSH	
APPROVED BY:	
REVISED:	NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	UTILITY CONSTRUCTION PLANS ONLY



ALL WORK WITHIN NCRR R/W TO BE PERFORMED IN ACCORDANCE WITH NORTH CAROLINA RAILROAD SPECIFICATIONS NCR 101, 102 AND 103.



REVISION #1 4-3-13  
EXTENDED 20" ENCASEMENT,  
REMOVED AIR RELEASE VALVES,  
MODIFIED NOTES, DIMENSIONS,  
ETC. PER NCRR COMMENTS

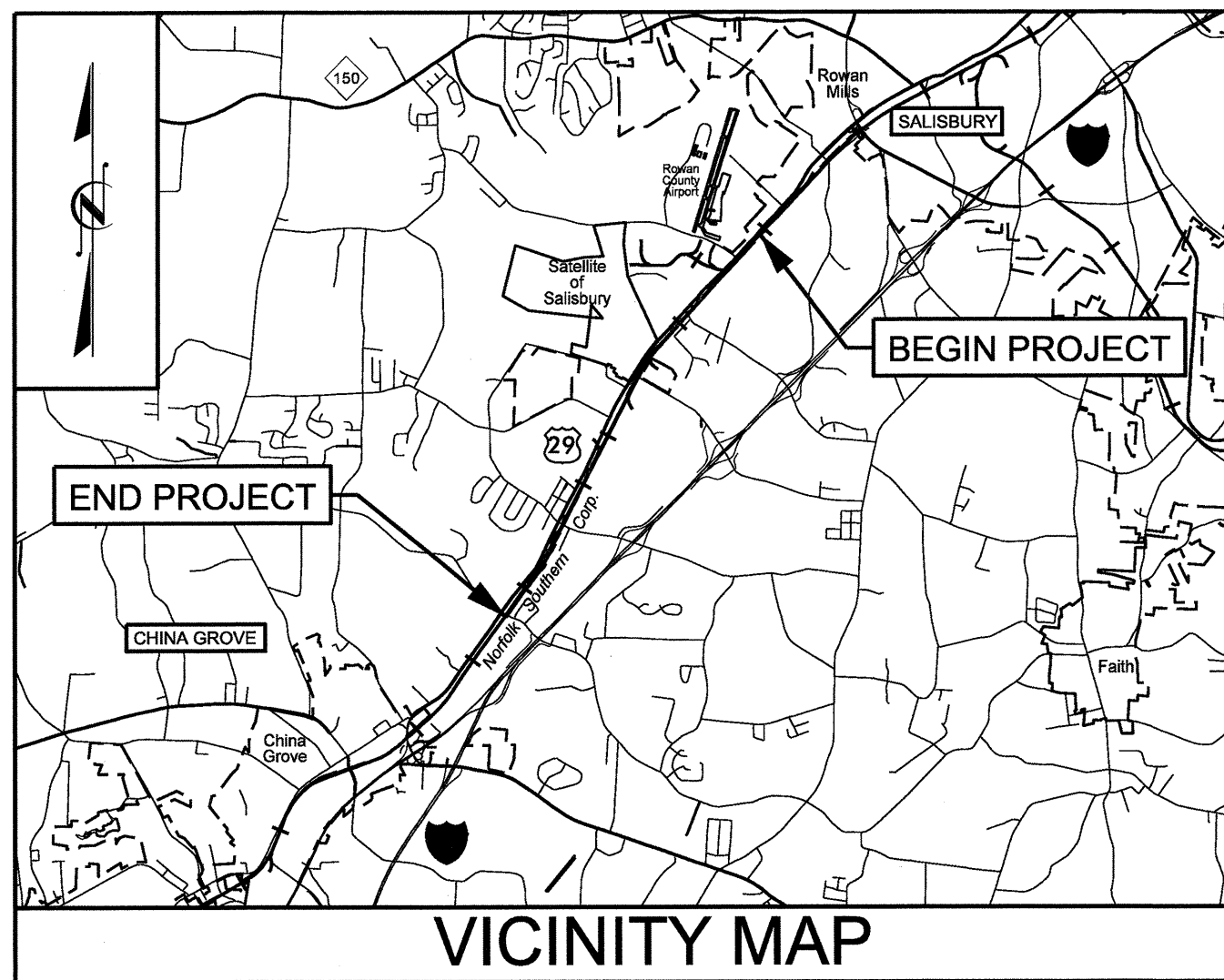


LOCATION: CP "REID" (MP 337.1) TO SOUTH OF MT. HOPE CHURCH ROAD (MP 340.9) ON THE NCRR'S MAINLINE
TIP NO.: P-5206B COUNTY: ROWAN
DESIGNED BY: CLS
CHECKED BY: KSH DATE: 2-6-2013

0164DEL\_P10B2

**TIP PROJECT: P-5206B**

**C203207**



STATE OF NORTH CAROLINA  
RAIL DIVISIONS

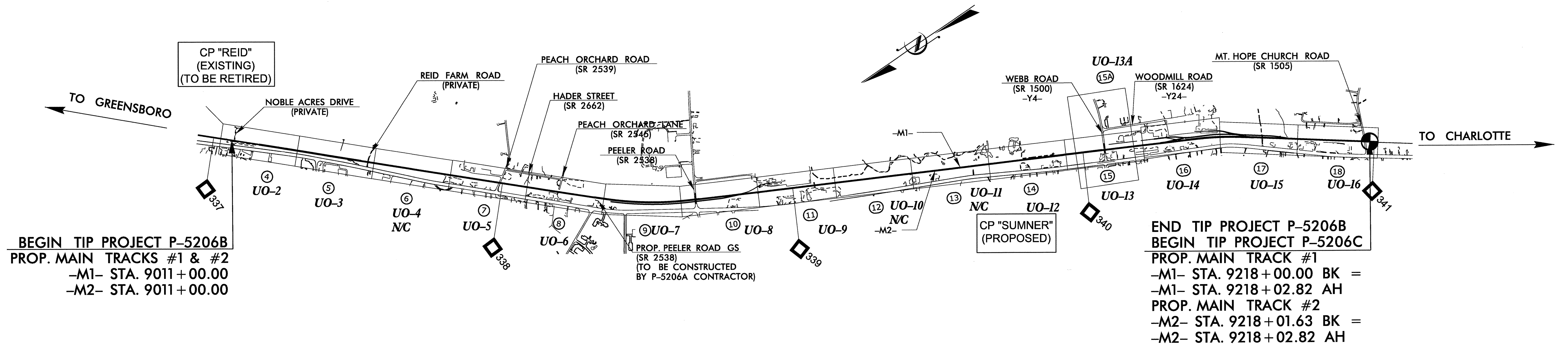
**ROWAN COUNTY**

**LOCATION: NS MAINLINE RAILROAD ROADBED FROM CP "REID" (MP 337.0)  
TO SOUTH OF MT. HOPE CHURCH ROAD (SR 1505, MP 340.9)**

**TYPE OF WORK: GRADING, DRAINAGE, PAVING, AND CURB AND GUTTER**

T.I.P. NO.	SHEET NO.
<b>P-5206B</b>	<b>UO-1</b>

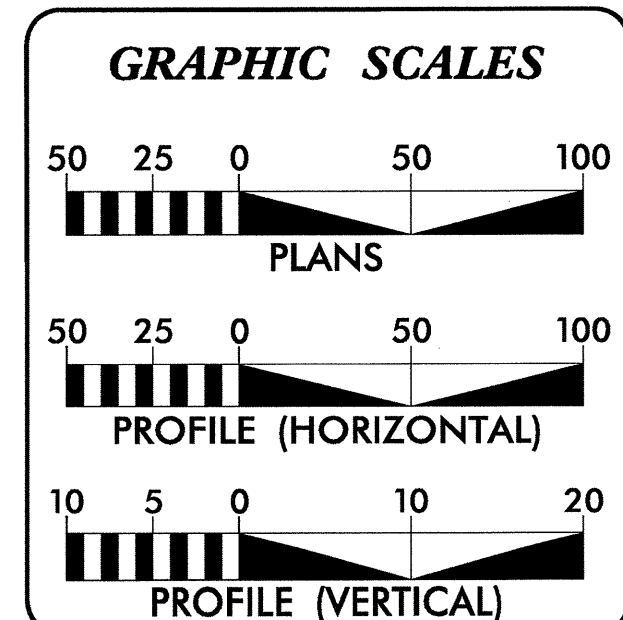
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION
52000.1.STROSTIB		PE,UTL PE
52000.1.STRO6T3		PE,UTL PE
43219.2.STRO8P5206		ROW
52000.3.STRO2T4D	FRA-FR-HSR-0006-10-01-000	UTL CONST, CONST



**BEGIN TIP PROJECT P-5206B**  
PROP. MAIN TRACKS #1 & #2  
-M1- STA. 9011+00.00  
-M2- STA. 9011+00.00

**END TIP PROJECT P-5206B**  
**BEGIN TIP PROJECT P-5206C**  
PROP. MAIN TRACK #1  
-M1- STA. 9218+00.00 BK =  
-M1- STA. 9218+02.82 AH  
PROP. MAIN TRACK #2  
-M2- STA. 9218+01.63 BK =  
-M2- STA. 9218+02.82 AH

**UCC**  
**UTILITY COORDINATION CONSULTANTS**  
P.O. BOX 450  
MINERAL SPRINGS N.C. 28108  
(704) 844-9093



**INDEX OF SHEETS**

SHEET NO.	DESCRIPTION
UO-1	TITLE SHEET
UO-2 THRU UO-16	UTILITY BY OTHERS PLAN SHEETS

- UTILITY OWNERS ON PROJECT**
- (1) DUKE ENERGY.....POWER
  - (2) WINDSTREAM.....COMMUNICATIONS
  - (3) AT&T.....COMMUNICATIONS
  - (4) PSNC ENERGY.....GAS
  - (5) PIEDMONT NATURAL GAS.....GAS
  - (6) TIME WARNER CABLE.....CABLE TV
  - (7) NCDOT-ITS.....COMMUNICATIONS

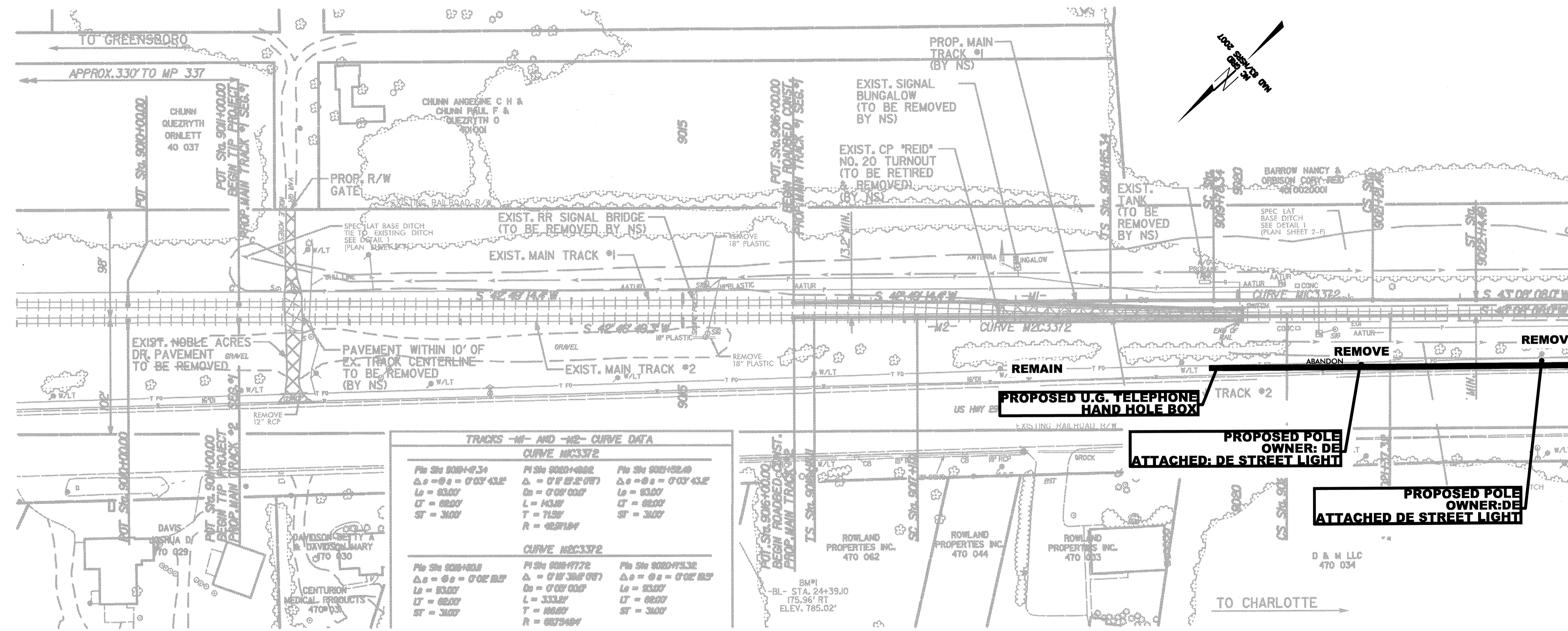
PREPARED IN THE OFFICE OF:  
**DIVISION OF HIGHWAYS**  
**UTILITIES UNIT**  
**UTILITIES ENGINEERING**

1555 MAIL SERVICES CENTER  
RALEIGH NC 27699-1555  
PHONE (919) 707-6690  
FAX (919) 250-4151

**Roger Worthington, P.E.** UTILITIES SECTION ENGINEER

# UTILITIES BY OTHERS

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

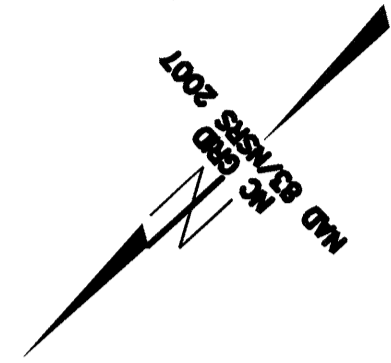


TRACKS #1- AND #2- CURVE DATA

CURVE M2C3372		
PI Stn 900+07.34	PI Stn 900+000	PI Stn 900+02.10
$\Delta = 0^\circ - 01' - 43.2"$	$\Delta = 0^\circ - 01' - 20.7"$	$\Delta = 0^\circ - 01' - 43.2"$
$L = 93.00'$	$D = 0^\circ - 09' - 00.0"$	$L = 93.00'$
$U = 69.00'$	$L = 143.8'$	$U = 69.00'$
$ST = 31.00'$	$T = 71.36'$	$ST = 31.00'$
$R = 4871.04'$		

CURVE M2C3372		
PI Stn 900+000	PI Stn 900+177.2	PI Stn 900+152.32
$\Delta = 0^\circ - 01' - 43.2"$	$\Delta = 0^\circ - 11' - 30.6"$	$\Delta = 0^\circ - 01' - 43.2"$
$L = 93.00'$	$D = 0^\circ - 09' - 00.0"$	$L = 93.00'$
$U = 69.00'$	$L = 333.2'$	$U = 69.00'$
$ST = 31.00'$	$T = 166.7'$	$ST = 31.00'$
$R = 6073.104'$		

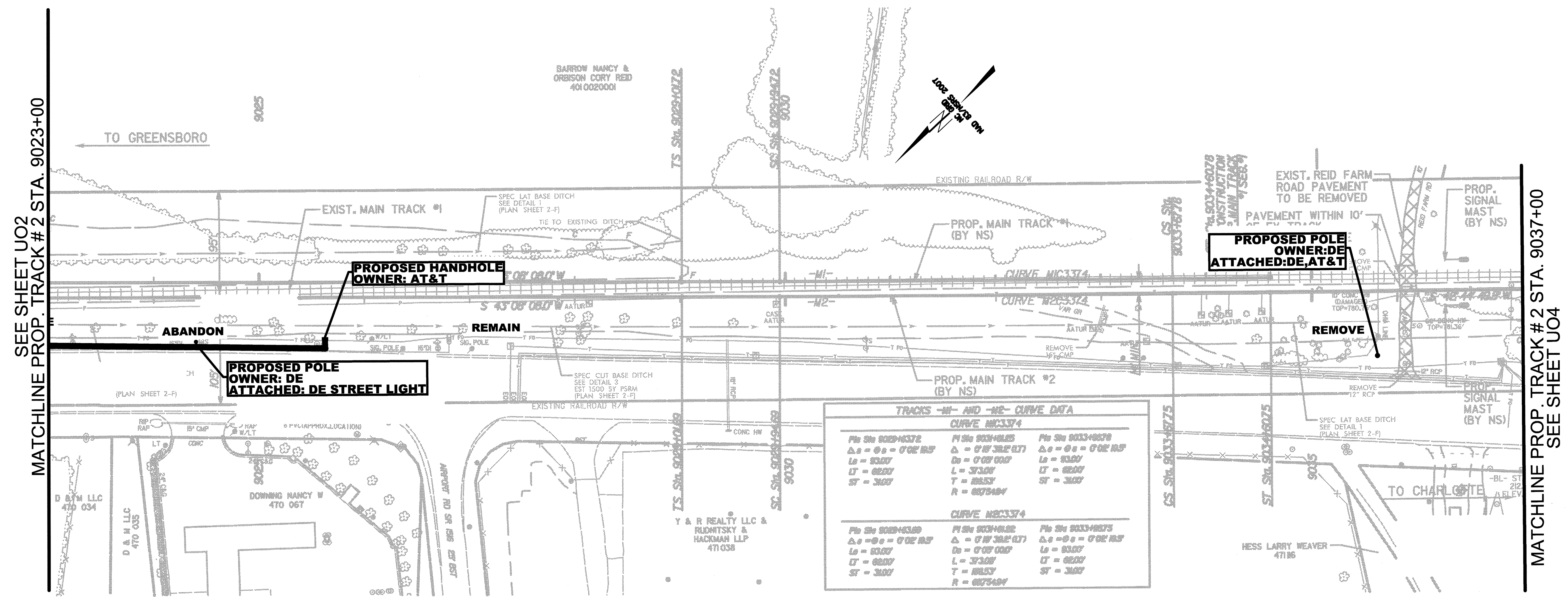


MATCHLINE PROP. TRACK # 2 STA. 9023+00 SEE UO3



### UTILITIES BY OTHERS

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

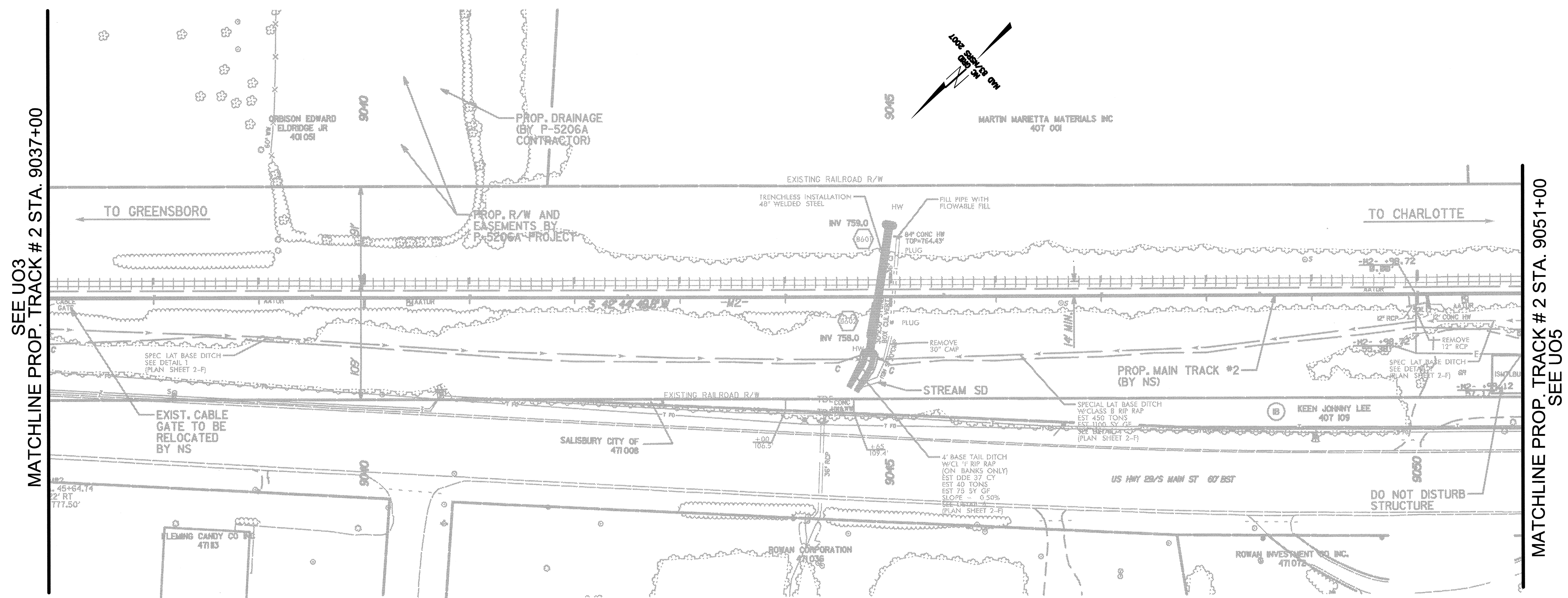


SEE SHEET U02  
MATCHLINE PROP. TRACK #2 STA. 9023+00

MATCHLINE PROP. TRACK #2 STA. 9037+00  
SEE SHEET U04

### UTILITIES BY OTHERS

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

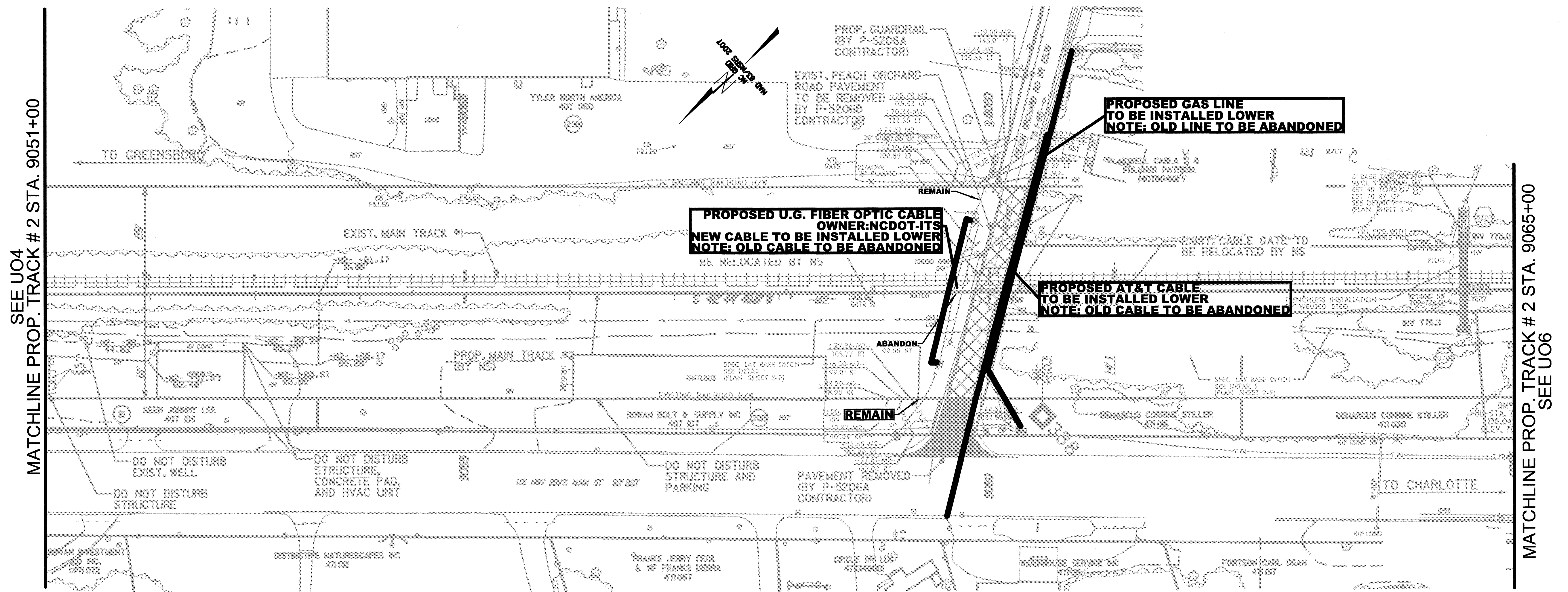


SEE UO3  
MATCHLINE PROP. TRACK # 2 STA. 9037+00

MATCHLINE PROP. TRACK # 2 STA. 9051+00  
SEE UO5

### UTILITIES BY OTHERS

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



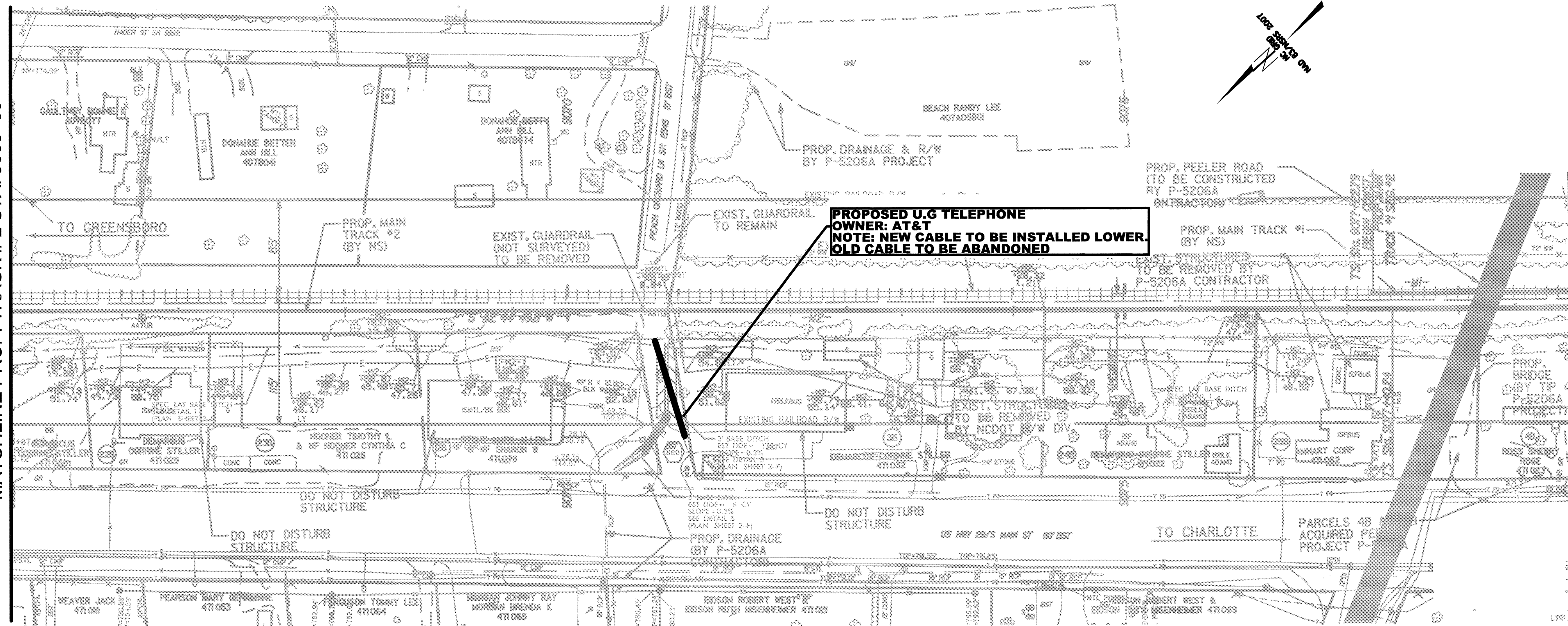
SEE U04  
MATCHLINE PROP. TRACK # 2 STA. 9051+00

MATCHLINE PROP. TRACK # 2 STA. 9065+00  
SEE U06

### UTILITIES BY OTHERS

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

SEE U05  
MATCHLINE PROP. TRACK # 2 STA. 9065+00

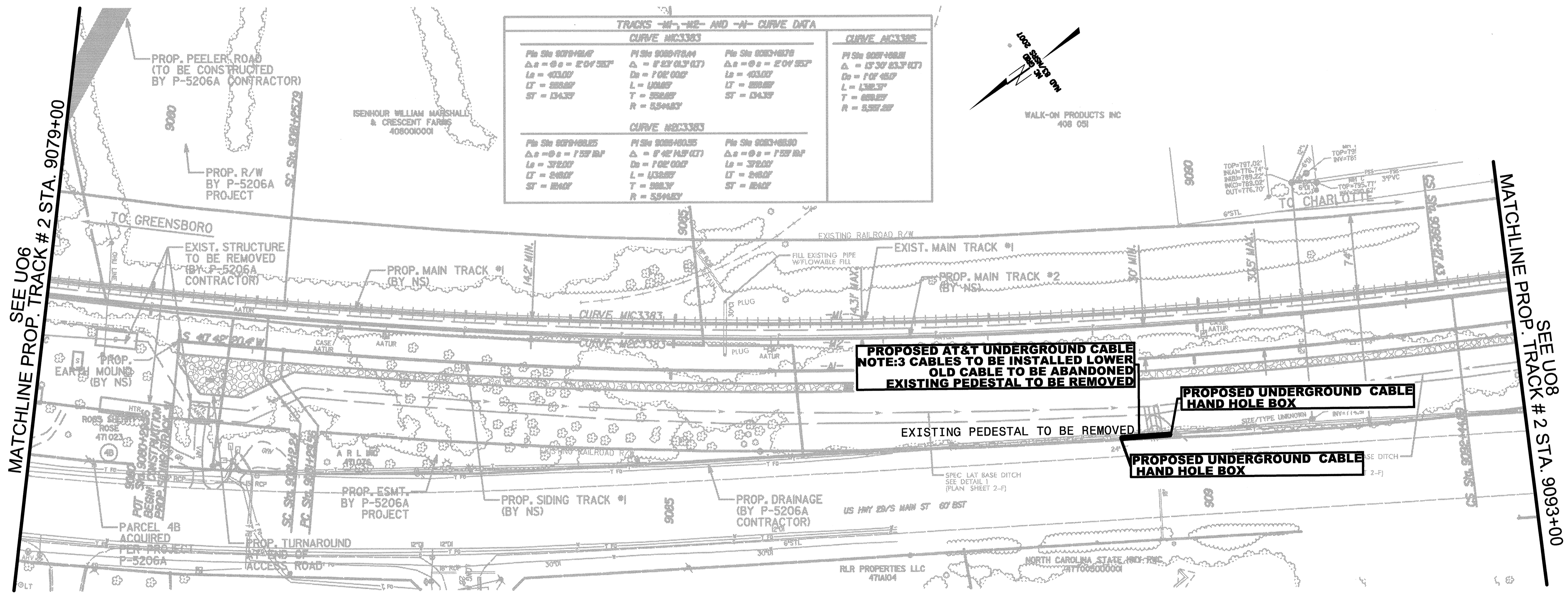


MATCHLINE PROP. TRACK # 2 STA. 9079+00  
SEE U07



### UTILITIES BY OTHERS

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



TRACKS -M-, -ME- AND -A- CURVE DATA			
CURVE MC3383		CURVE AC3385	
PI Stn 9079+64.4	PI Stn 9080+78.4	PI Stn 9082+80.6	PI Stn 9087+68.8
$\Delta = 90 = 204.357'$	$\Delta = 82.5 = 204.357'$	$\Delta = 90 = 204.357'$	$\Delta = 15.30 = 204.357'$
$L = 403.00'$	$L = 403.00'$	$L = 403.00'$	$L = 138.37'$
$LT = 388.87'$	$L = 403.00'$	$LT = 388.87'$	$T = 69.67'$
$ST = 134.37'$	$T = 388.87'$	$ST = 134.37'$	$R = 5387.28'$
CURVE MC3383		CURVE AC3385	
PI Stn 9079+62.5	PI Stn 9080+60.5	PI Stn 9082+62.7	PI Stn 9087+50.9
$\Delta = 90 = 173.187'$	$\Delta = 82.5 = 173.187'$	$\Delta = 90 = 173.187'$	$\Delta = 15.30 = 173.187'$
$L = 372.00'$	$L = 372.00'$	$L = 372.00'$	$L = 138.37'$
$LT = 342.00'$	$L = 372.00'$	$LT = 342.00'$	$T = 69.67'$
$ST = 124.00'$	$T = 342.00'$	$ST = 124.00'$	$R = 5387.28'$

MATCHLINE PROP. TRACK # 2 STA. 9079+00

MATCHLINE PROP. TRACK # 2 STA. 9093+00

**PROPOSED AT&T UNDERGROUND CABLE**  
NOTE: 3 CABLES TO BE INSTALLED LOWER  
OLD CABLE TO BE ABANDONED  
EXISTING PEDESTAL TO BE REMOVED

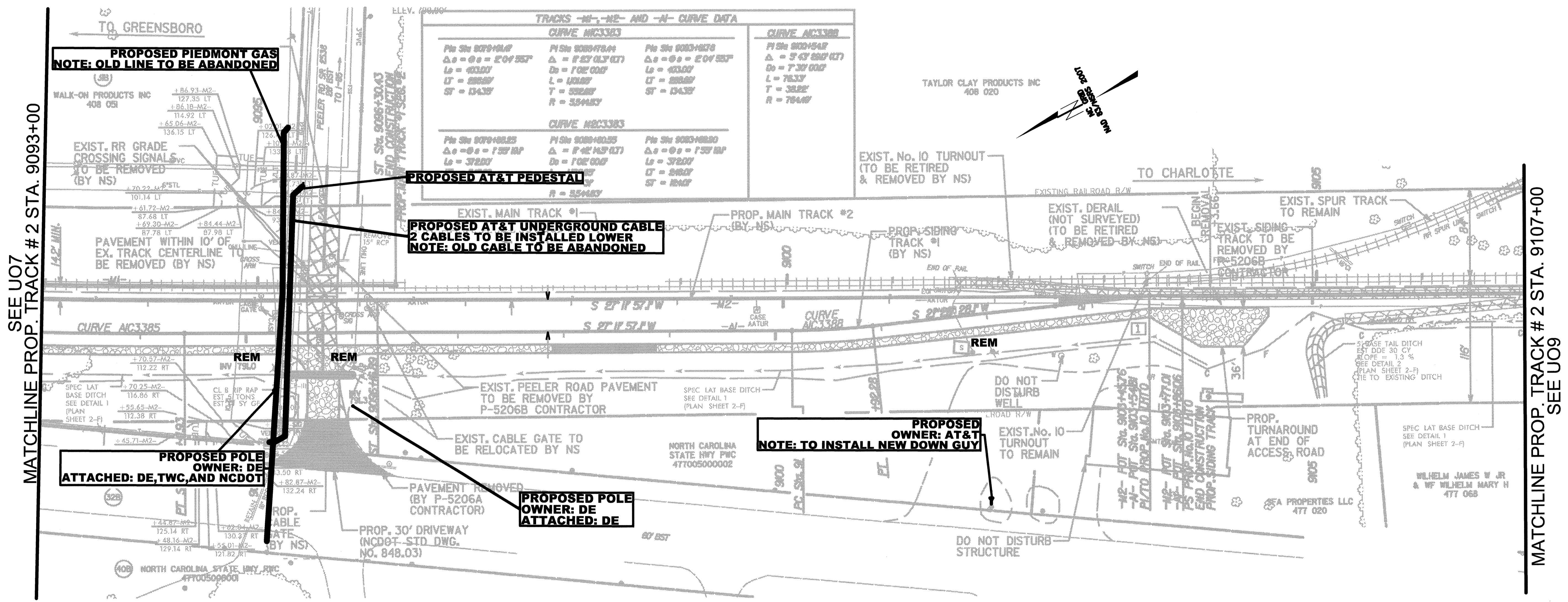
**PROPOSED UNDERGROUND CABLE**  
HAND HOLE BOX

EXISTING PEDESTAL TO BE REMOVED

**PROPOSED UNDERGROUND CABLE**  
HAND HOLE BOX

### UTILITIES BY OTHERS

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



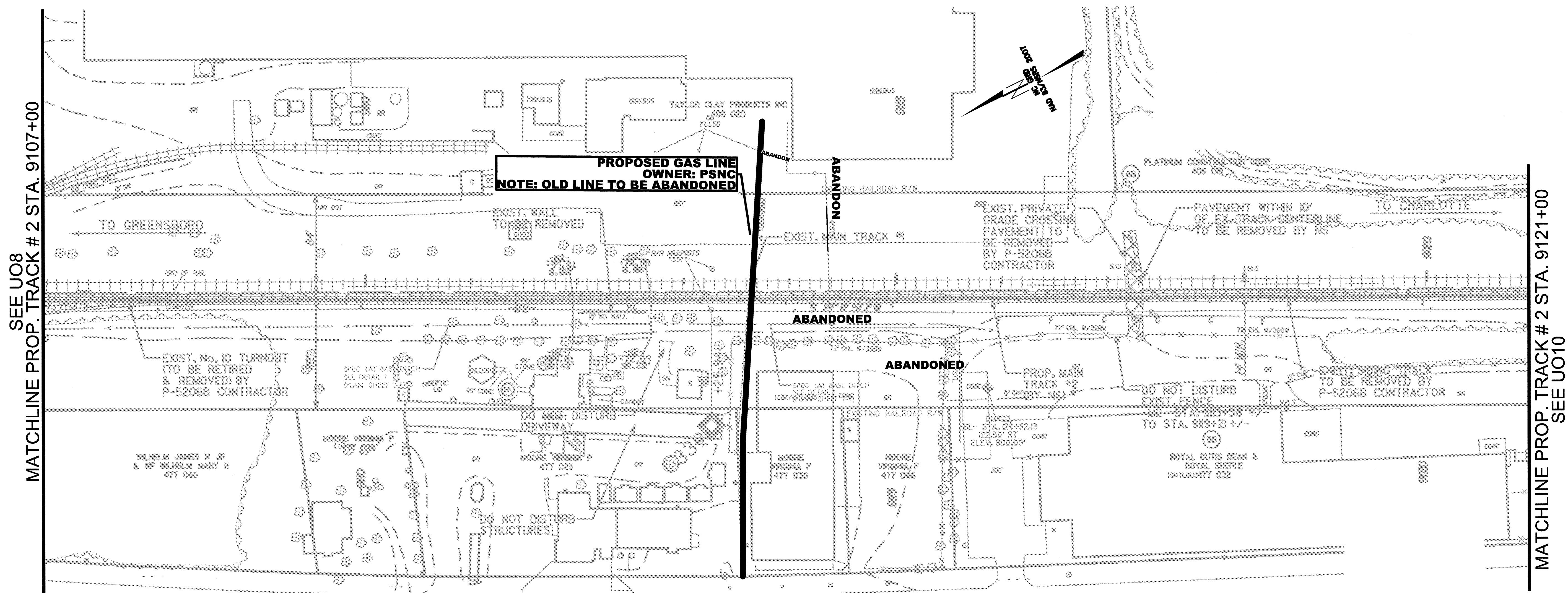
TRACKS -M1-, -M2- AND -A- CURVE DATA

CURVE AC3383			CURVE AC3388		
PI Sta 9079+19.67	PI Sta 9080+78.44	PI Sta 9083+167.8	PI Sta 9080+94.2		
$\Delta_s = \theta_s = 2'04'35.7"$	$\Delta_s = \theta_s = 1'42'16.57"$	$\Delta_s = \theta_s = 2'04'35.7"$	$\Delta_s = \theta_s = 2'04'35.7"$		
$L_s = 433.07'$	$L_s = 372.07'$	$L_s = 433.07'$	$L_s = 763.37'$		
$LT = 286.89'$	$LT = 239.27'$	$LT = 286.89'$	$LT = 382.2'$		
$ST = 134.35'$	$ST = 132.80'$	$ST = 134.35'$	$ST = 794.48'$		
$R = 35148.7'$	$R = 35148.7'$	$R = 35148.7'$	$R = 70448'$		



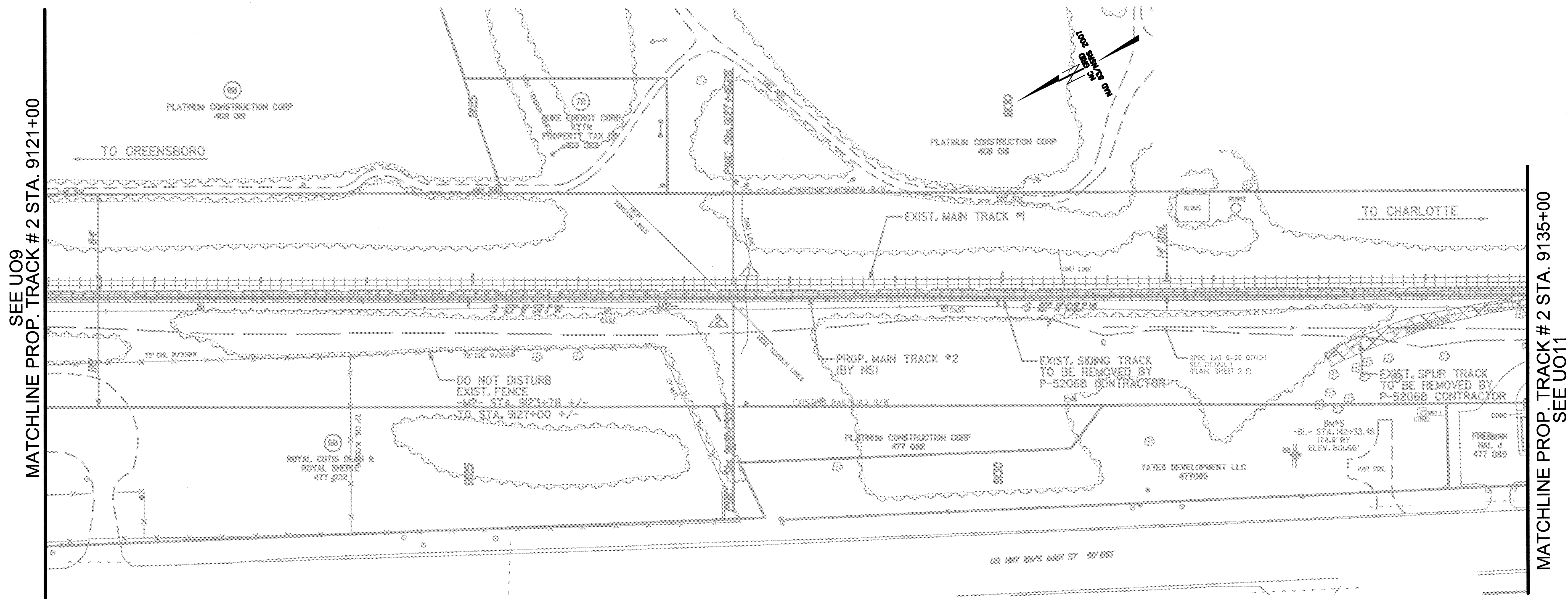
### UTILITIES BY OTHERS

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



### UTILITIES BY OTHERS

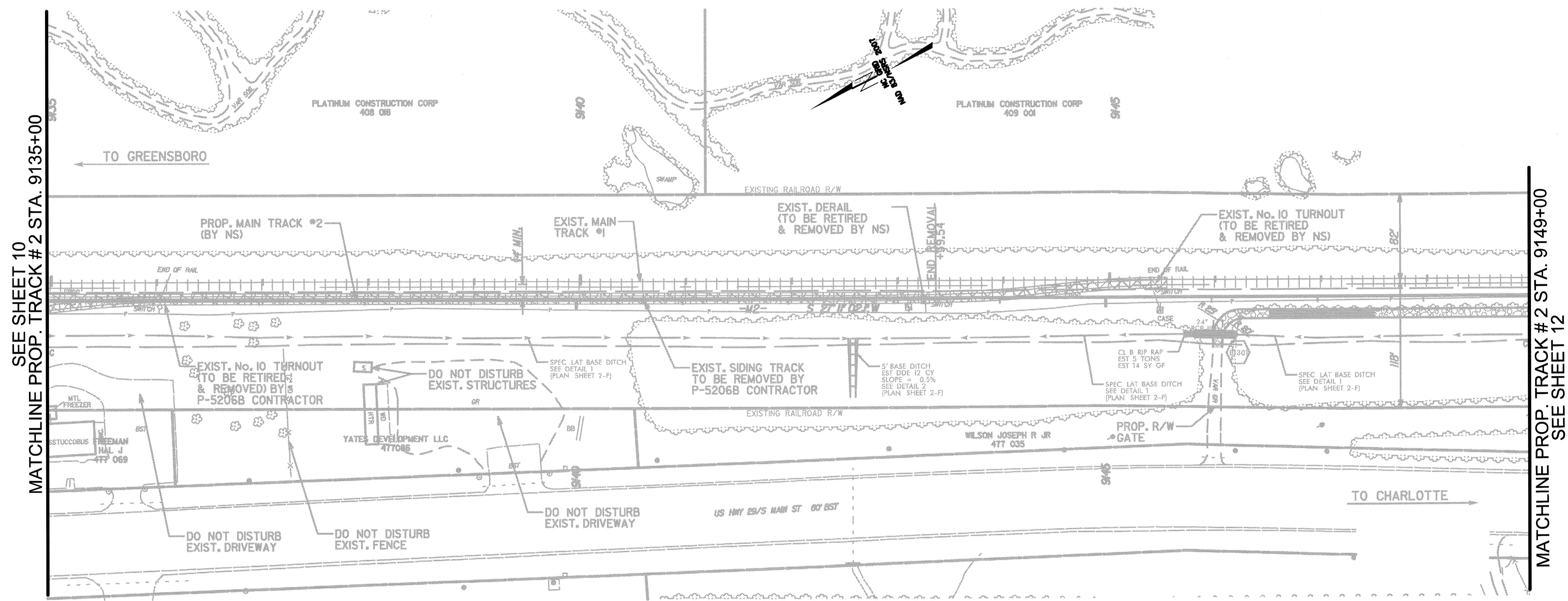
NOTE:  
ALL PROPOSED UTILITY WORK  
SHOWN ON THIS SHEET WILL  
BE DONE BY OTHERS





# UTILITIES BY OTHERS

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

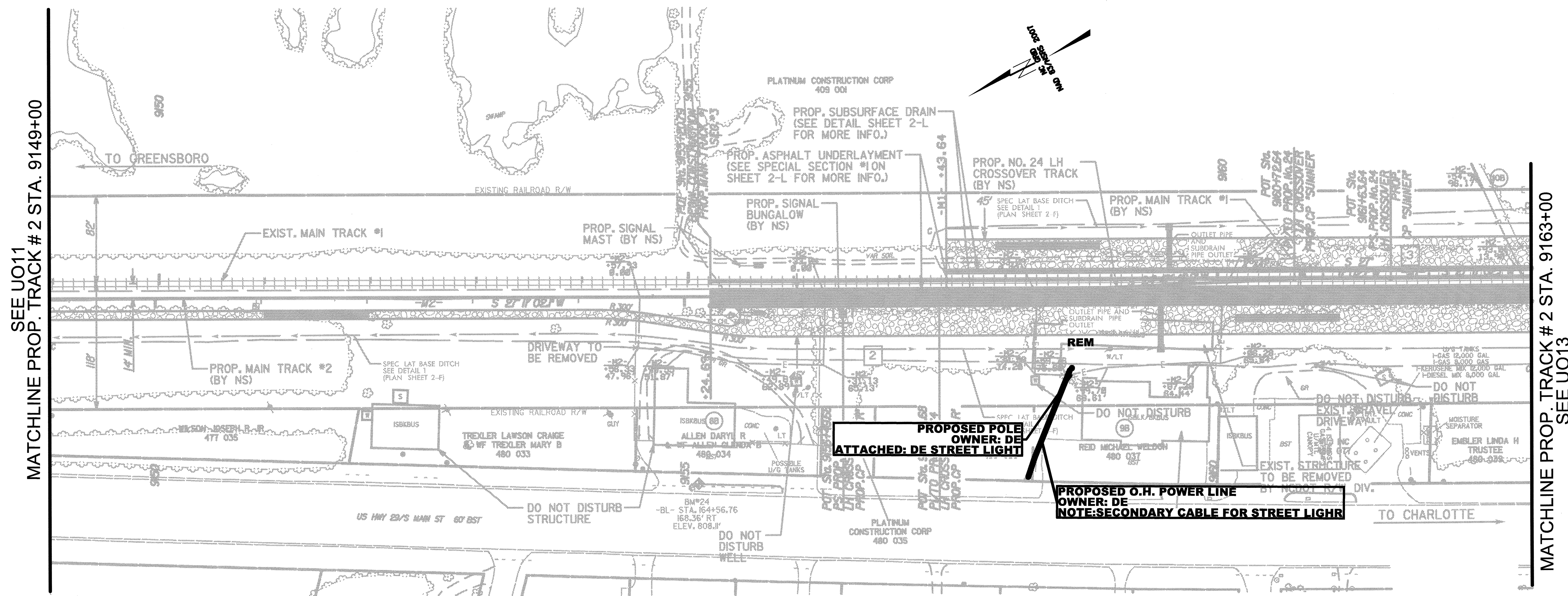


SEE SHEET 10  
MATCHLINE PROP. TRACK # 2 STA. 9135+00

MATCHLINE PROP. TRACK # 2 STA. 9149+00  
SEE SHEET 12

### UTILITIES BY OTHERS

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



SEE UO11  
MATCHLINE PROP. TRACK # 2 STA. 9149+00

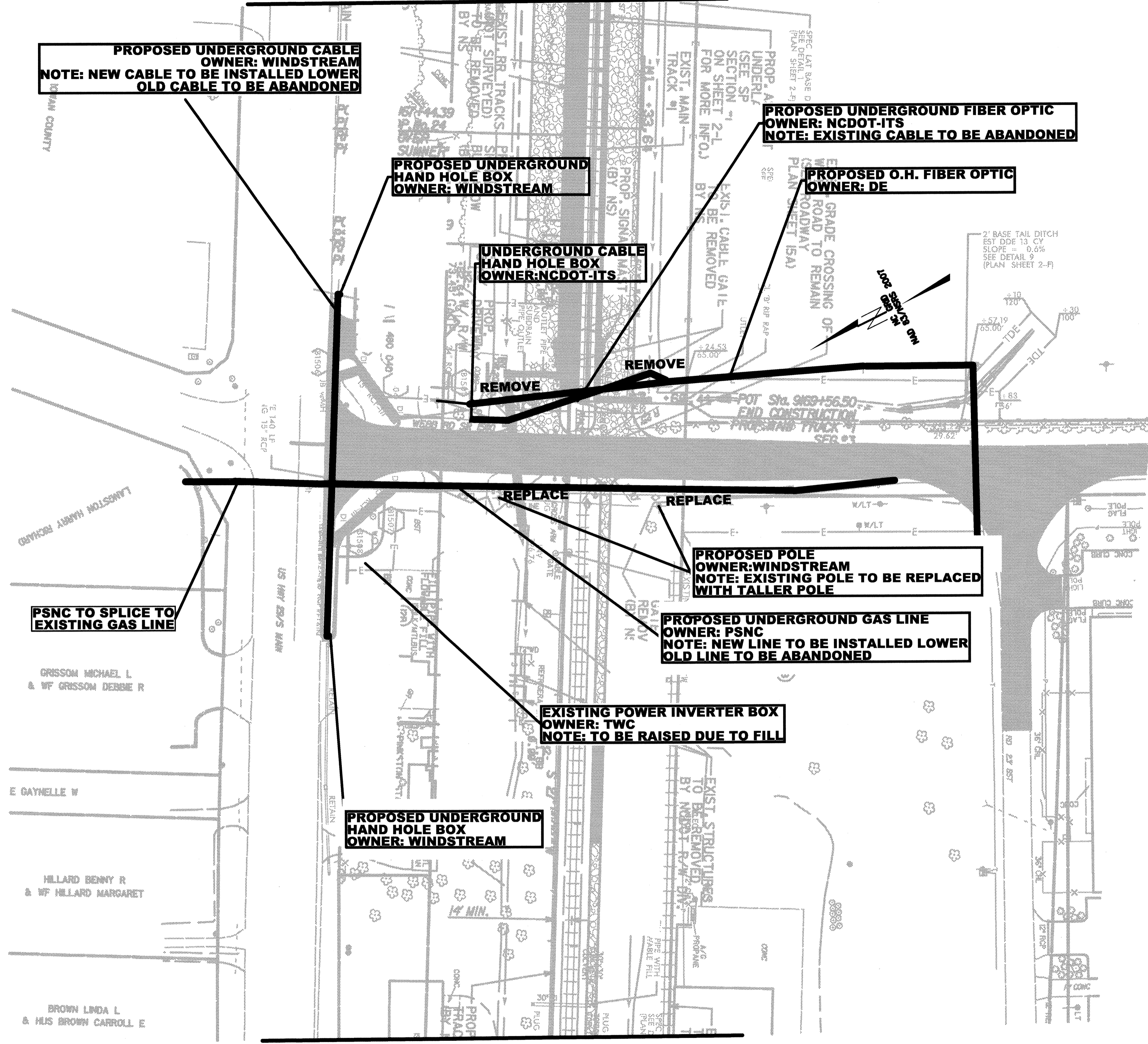
MATCHLINE PROP. TRACK # 2 STA. 9163+00  
SEE UO13

**PROPOSED POLE  
OWNER: DE  
ATTACHED: DE STREET LIGHT**

**PROPOSED O.H. POWER LINE  
OWNER: DE  
NOTE: SECONDARY CABLE FOR STREET LIGHT**

### UTILITIES BY OTHERS

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



UTILITIES BY OTHERS

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

**Y-4 CURVE DATA**

PI Sta	13+42.87
Δ	24° 04' (LT)
D	645.502'
L	357.95'
T	178.97'
R	7500.00'
Runoff	N/A

**PROPOSED UNDERGROUND CABLE**  
OWNER: WINDSTREAM  
NOTE: NEW CABLE TO BE INSTALLED LOWER  
OLD CABLE TO BE ABANDONED

**PROPOSED UNDERGROUND FIBER OPTIC**  
OWNER: NCDOT-ITS  
NOTE: EXISTING CABLE TO BE ABANDONED

**PROPOSED UNDERGROUND HAND HOLE BOX**  
OWNER: WINDSTREAM

**PROPOSED O.H. FIBER OPTIC**  
OWNER: DE

**UNDERGROUND CABLE HAND HOLE BOX**  
OWNER: NCDOT-ITS

ISLANDS WILL NOT BE CONSTRUCTED UNTIL TRACK AND PANELS ARE COMPLETE. COORDINATE WITH RS

**PSNC TO SPLICE TO EXISTING GAS LINE**

**PROPOSED POLE**  
OWNER: WINDSTREAM  
NOTE: EXISTING POLE TO BE REPLACED WITH TALLER POLE

**PROPOSED UNDERGROUND GAS LINE**  
OWNER: PSNC  
NOTE: NEW LINE TO BE INSTALLED LOWER  
OLD LINE TO BE ABANDONED

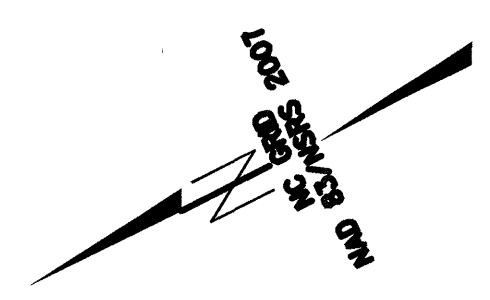
**EXISTING POWER INVERTER BOX**  
OWNER: TWC  
NOTE: TO BE RAISED DUE TO FILL

**PROPOSED UNDERGROUND HAND HOLE BOX**  
OWNER: WINDSTREAM

DCN: 0164DEL\_P1062

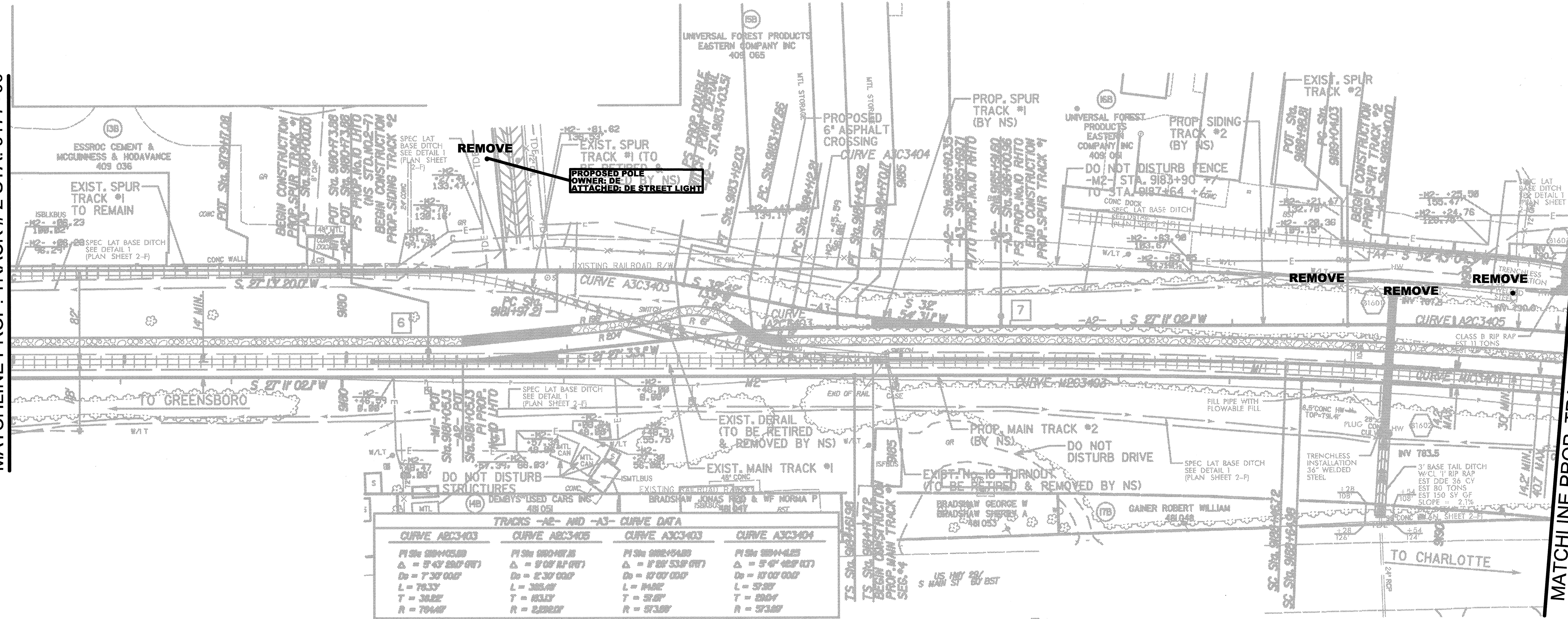
### UTILITIES BY OTHERS

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



SEE U013  
MATCHLINE PROP. TRACK # 2 STA. 9177+00

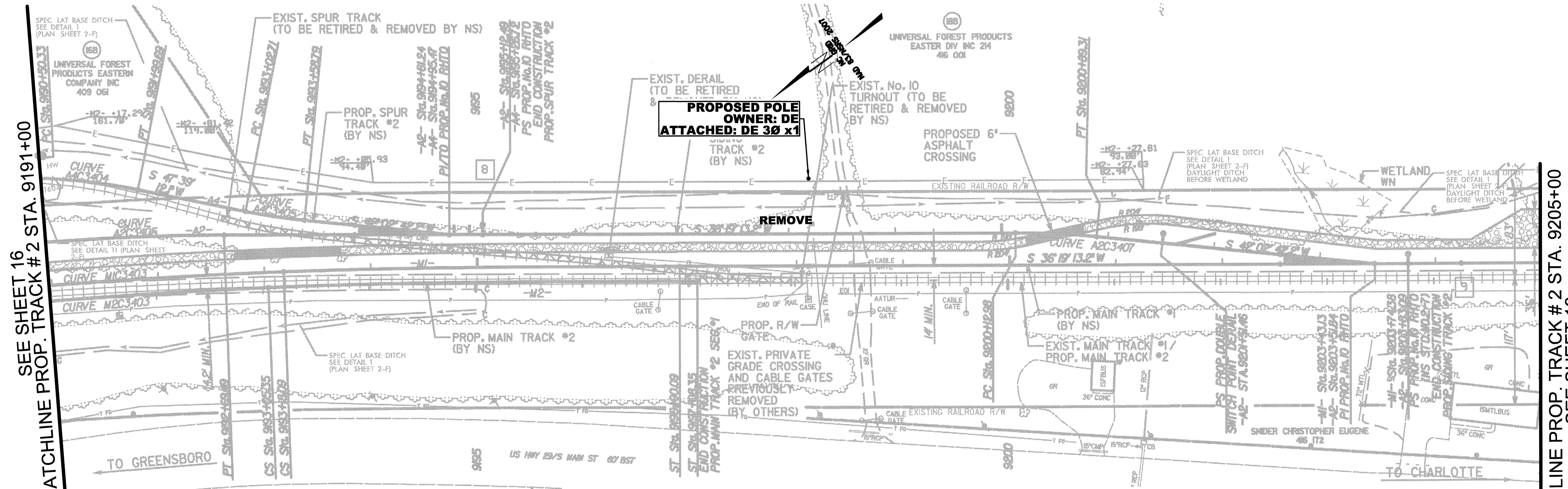
MATCHLINE PROP. TRACK # 2 STA. 9191+00  
SEE U015



TRACKS -A2- MID -A3- CURVE DATA			
CURVE ABC3403	CURVE ABC3405	CURVE A3C3403	CURVE A3C3404
PI Sta 9184+05.89	PI Sta 9180+71.25	PI Sta 9186+54.89	PI Sta 9184+42.23
$\Delta = 9^{\circ} 47' 29.07''$ (RT)	$\Delta = 9^{\circ} 08' 41.97''$	$\Delta = 9^{\circ} 08' 53.97''$ (RT)	$\Delta = 5^{\circ} 47' 42.97''$ (RT)
$D_0 = 7^{\circ} 30' 00.00''$	$D_0 = 8^{\circ} 30' 00.00''$	$D_0 = 10^{\circ} 00' 00.00''$	$D_0 = 10^{\circ} 00' 00.00''$
L = 76.33'	L = 305.48'	L = 144.82'	L = 57.98'
T = 36.82'	T = 153.17'	T = 57.87'	T = 29.67'
R = 704.47'	R = 239.02'	R = 973.87'	R = 373.87'

UTILITIES BY OTHERS

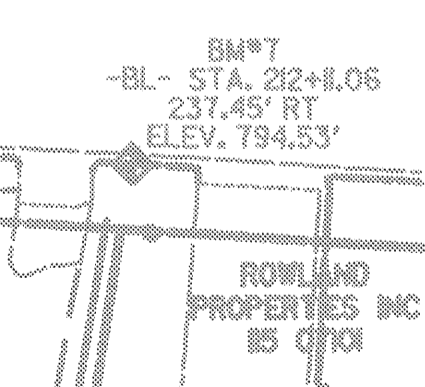
NOTE:  
ALL PROPOSED UTILITY WORK  
SHOWN ON THIS SHEET WILL  
BE DONE BY OTHERS



SEE SHEET 16  
MATCHLINE PROP. TRACK # 2 STA. 9191+00

MATCHLINE PROP. TRACK # 2 STA. 9205+00  
SEE SHEET 16

TRACKS -M-, -M2-, -A2- AND -M- CURVE DATA							
CURVE MC3403		CURVE MC3403		CURVE ABC3405		CURVE MC3405	
PI Sta 9191+00	PI Sta 9200+00	PI Sta 9200+00	PI Sta 9200+00	PI Sta 9200+00	PI Sta 9200+00	PI Sta 9200+00	PI Sta 9200+00
Δ = 90°	Δ = 90°	Δ = 90°	Δ = 90°	Δ = 90°	Δ = 90°	Δ = 90°	Δ = 90°
L = 3720'	L = 3720'	L = 3720'	L = 3720'	L = 3720'	L = 3720'	L = 3720'	L = 3720'
T = 2400'	T = 2400'	T = 2400'	T = 2400'	T = 2400'	T = 2400'	T = 2400'	T = 2400'
ST = 1200'	ST = 1200'	ST = 1200'	ST = 1200'	ST = 1200'	ST = 1200'	ST = 1200'	ST = 1200'
R = 5000'	R = 5000'	R = 5000'	R = 5000'	R = 5000'	R = 5000'	R = 5000'	R = 5000'



### UTILITIES BY OTHERS

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

