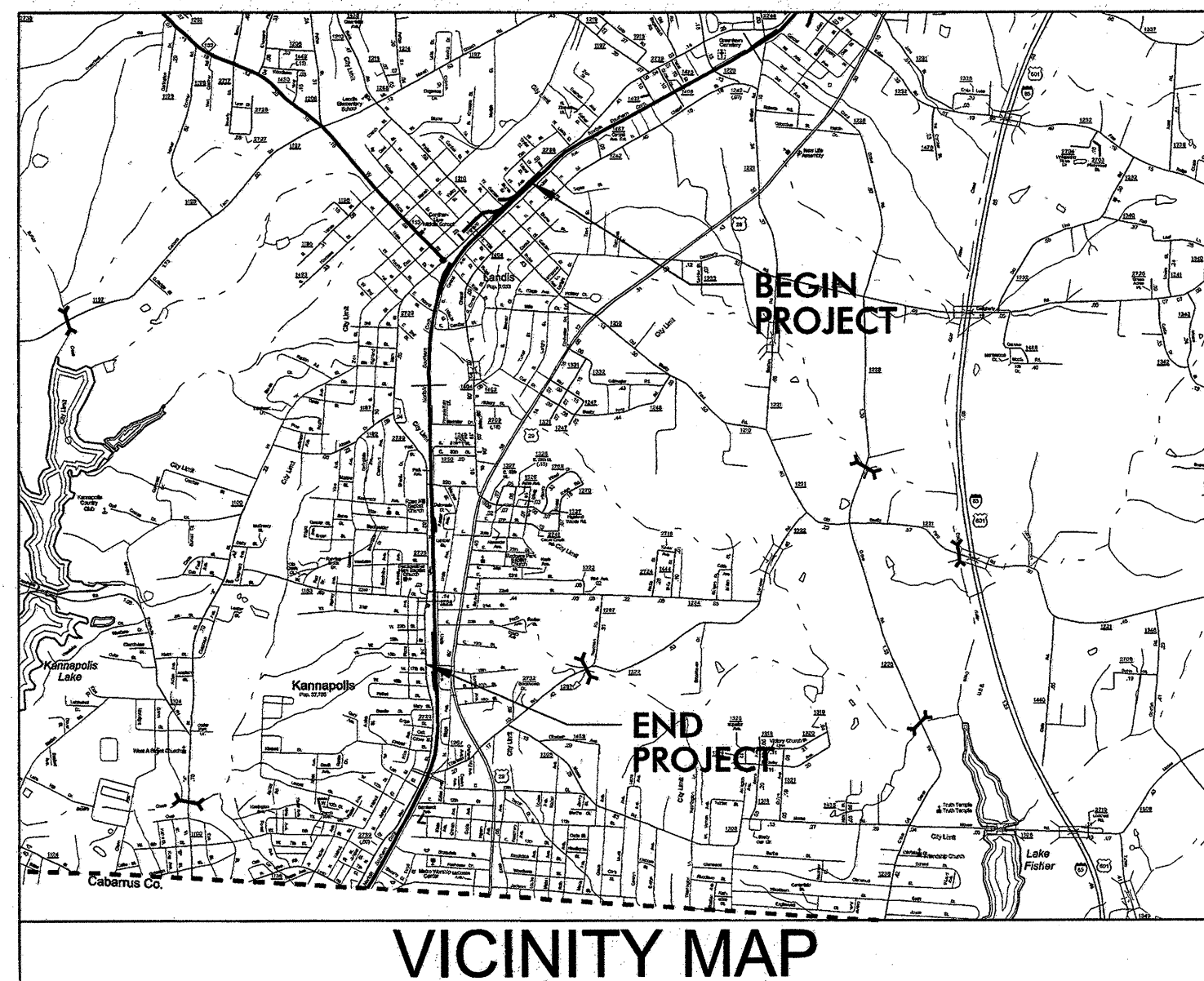


**TIP PROJECT: P-5206D**



VICINITY MAP

STATE OF NORTH CAROLINA  
RAIL DIVISION



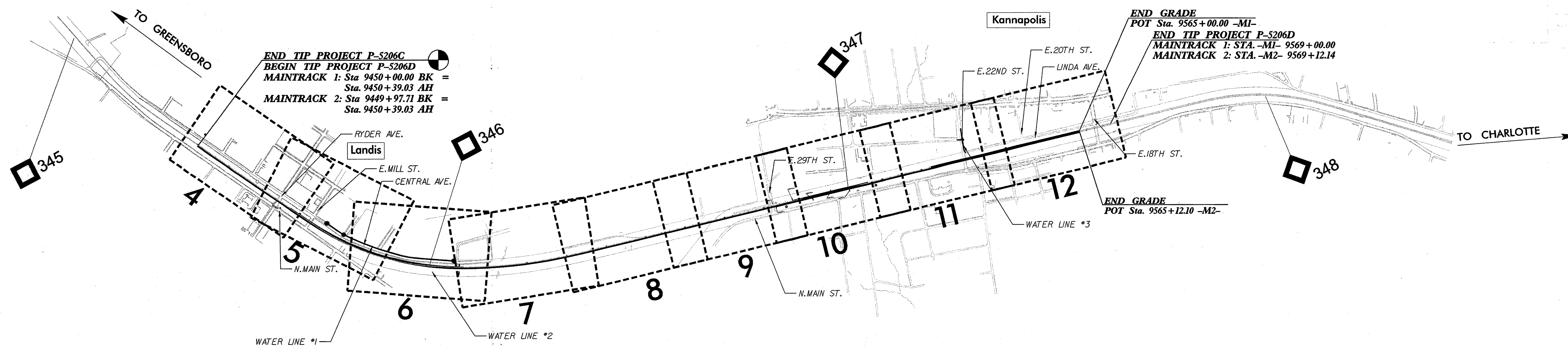
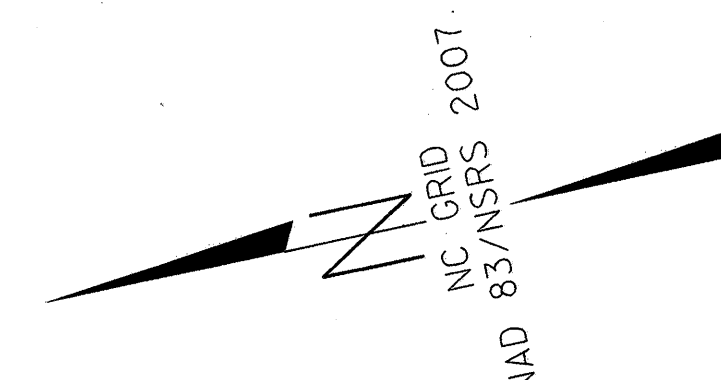
T.I.P. NO.	SHEET NO.
P-5206D	UC-1

# UTILITY CONSTRUCTION PLANS ROWAN COUNTY

**LOCATION: NCRNRS MAINLINE RAILROAD ROADBED FROM NORTH OF RYDER AVE (SR 1210, MP 345.4) TO CP "NORTH KANAPOLIS" (MP 348.3)**

**TYPE OF WORK: UTILITY CONSTRUCTION**

**NCRNRS MAINLINE RAILROAD ROADBED FROM NORTH OF RYDER AVE (SR 1210, MP 345.4) TO CP "NORTH KANAPOLIS" (MP 348.3)**

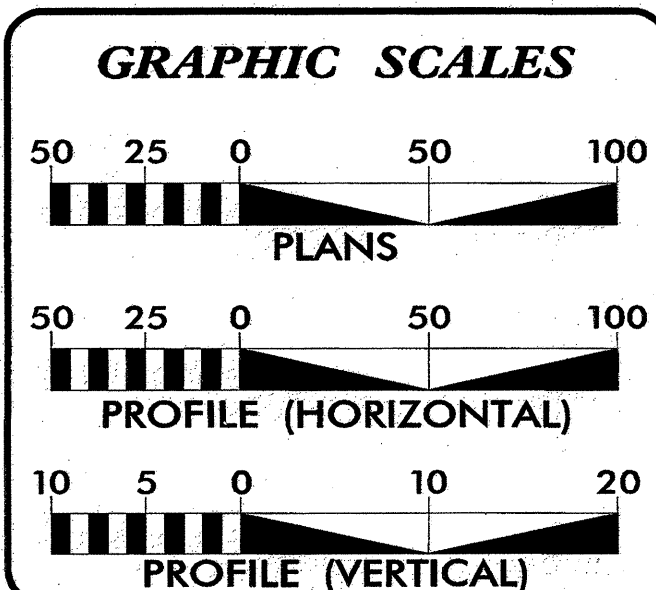


**END TIP PROJECT P-5206C**  
**BEGIN TIP PROJECT P-5206D**  
MAINTRACK 1: Sta. 9450+00.00 BK =  
Sta. 9450+39.03 AH  
MAINTRACK 2: Sta. 9449+97.71 BK =  
Sta. 9450+39.03 AH

**END GRADE**  
POT Sta. 9565+00.00 -M1-  
**END TIP PROJECT P-5206D**  
MAINTRACK 1: STA. -M1- 9569+00.00  
MAINTRACK 2: STA. -M2- 9569+12.14

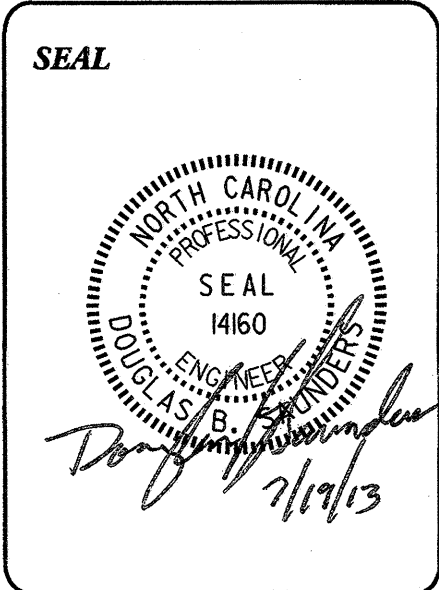
**END GRADE**  
POT Sta. 9565+12.10 -M2-

**CONTRACT:**



SHEET NO.	DESCRIPTION
UC-1	TITLE SHEET
UC-2	SYMBOLGY SHEET
UC-3 THRU 3A	STANDARD DRAWINGS
UC-4 THRU UC-12	UTILITY CONSTRUCTION PLANS
UC-13	PROFILE SHEET

- WATER AND SEWER OWNERS ON PROJECT**
- (1) WATER - TOWN OF LANDIS
  - (2) SANITARY SEWER - TOWN OF LANDIS
  - (3) WATER - CITY OF KANNAPOLIS
  - (4) SEWER - CITY OF KANNAPOLIS



PREPARED IN THE OFFICE OF:

**CDM Smith**  
Camp Dresser & McKee  
5400 Glenwood Avenue, Suite 300  
Raleigh, NC 27612 | Tel: (919) 755-0583  
NC COA No. F-0412

**Roger Worthington, P.E.** UTILITIES SECTION ENGINEER  
**Xxxxx Xxxxx, P.E.** UTILITIES SQUAD LEADER PROJECT ENGINEER  
**Douglas B. Saunders, PE** UTILITIES PROJECT DESIGNER

Note: Not to Scale

\*S.U.E. = Subsurface Utility Engineering

STATE OF NORTH CAROLINA  
RAIL DIVISION

UTILITIES PLAN SHEET SYMBOLS



PROJECT REFERENCE NO.	SHEET NO.
P-5206D	UC-2
DESIGNED BY: THB	
DRAWN BY: THB	
CHECKED BY: THB	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SECTION PHONE: (919) 707-6690 FAX: (919) 250-4151	



UTILITY CONSTRUCTION

Water

Proposed Back Flow Preventor	
Relocate Back Flow Preventor	
Existing Water Valve	
Proposed Valve	
Proposed Tapping Valve	
Existing Water Meter	
Proposed Water Meter	
Proposed Water Meter/Vault	
Relocate Water Meter	
Remove Water Meter	REM WM
Existing Hydrant	
Prop Hydrant	
Relocate Hydrant	
Remove Hydrant	REM FH

Proposed RPZ Back Flow Preventor	
Relocate RPZ Back Flow Preventor	
Water Cross	
Water Plug	
Water Reducer	
Water Tee	
Water Pump Station	
Water Thrust Block	
Blow Off Valve	
Air Release Valve	
Water Line Stop	
Water Line Stop w Bypass	

Utility By Other Symbols

Proposed Tel Pole	
Proposed Power Pole	
Proposed Joint Use Power, Tel Pole	
Proposed Joint Use Power, CATV Pole	
Proposed Joint Use Power, Tel, CATV Pole	
Proposed Joint Use Tel, CATV Pole	

Sewer

Existing Manhole	
Proposed UT Manhole	
Remove UT Manhole	REM UT MH
Abandon Utility Manhole	ABAND MH
Sewer Line Stop	
Sewer Line Stop w Bypass	

Sewer Cross	
Sewer Plug	
Sewer Reducer	
Sewer Tee	
Sewer Pump Station	
Sewer Thrust Block	

PUE Monument	
Concrete Pier	
Steel Pile Pier	
Test Hole (SUE)	
Prop Utility Vault	

# STATE OF NORTH CAROLINA RAIL DIVISION STANDARD DRAWINGS



PROJECT REFERENCE NO.	SHEET NO.
P-5206D	UC-3
DESIGNED BY: THB	
DRAWN BY: THB	
CHECKED BY: THB	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
<b>CDM Smith</b> <small>Utility Construction Plans Only</small>	

UTILITY CONSTRUCTION

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.	<b>WATER METER</b> ENGLISH STANDARD DRAWING FOR	SHEET 1 OF 1 <b>1515.01</b>
<b>NOTES:</b> 1. THIS DETAIL SHOWS THE TYPICAL FINAL WATER METER CONFIGURATION AFTER INSTALLATION OF A PROPOSED WATER METER, RECONNECTION OF AN EXISTING WATER METER, OR RELOCATION OF A WATER METER.		
STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.		

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.	<b>FIRE HYDRANT</b> ENGLISH STANDARD DRAWING FOR	SHEET 1 OF 1 <b>1515.02</b>
<b>NOTES:</b> 1. THIS DETAIL SHOWS THE TYPICAL FINAL FIRE HYDRANT CONFIGURATION AFTER INSTALLATION OF A PROPOSED FIRE HYDRANT, RECONNECTION OF AN EXISTING FIRE HYDRANT, OR RELOCATION OF A FIRE HYDRANT. 2. KEEP DRAIN PORTS FREE FROM OBSTRUCTION. 3. RESTRAIN ALL PIPE JOINTS AND FITTINGS. ACCEPTABLE TYPES OF RESTRAINT INCLUDE RESTRAINING GLANDS, RESTRAINED PUSH-ON JOINTS, AND 3/4" BITUMINOUS COATED ALL-THREAD RESTRAINING RODS. THRUST BLOCKS ARE NOT AN ACCEPTABLE TYPE OF RESTRAINT. 4. FOR RELOCATED OR RECONNECTED FIRE HYDRANTS, VERIFY THE VALVE IS RESTRAINED TO THE MAIN. PROVIDE APPROPRIATE RESTRAINT.		
STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.		

STATE OF NORTH CAROLINA  
RAIL DIVISION

STANDARD DRAWINGS  
(USE ON CITY OF KANNAPOLIS FACILITIES)



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

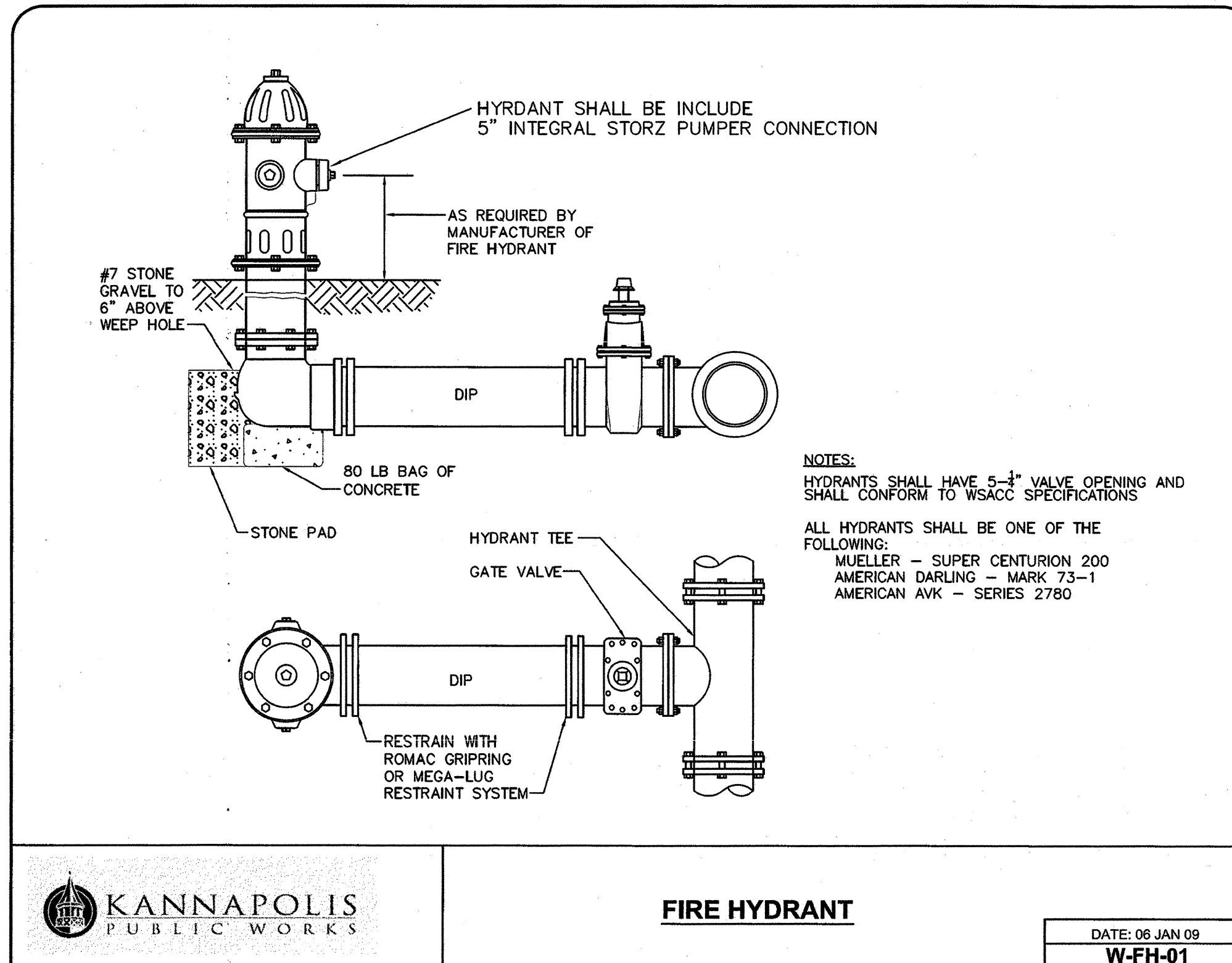
CDM Smith  
Civil Engineer & Architect  
3000 Research Triangle Park  
Raleigh, NC 27609  
NC State License No. F-2412

UTILITY CONSTRUCTION

KANNAPOLIS

The following notes should be added to the Utility Cover Sheet

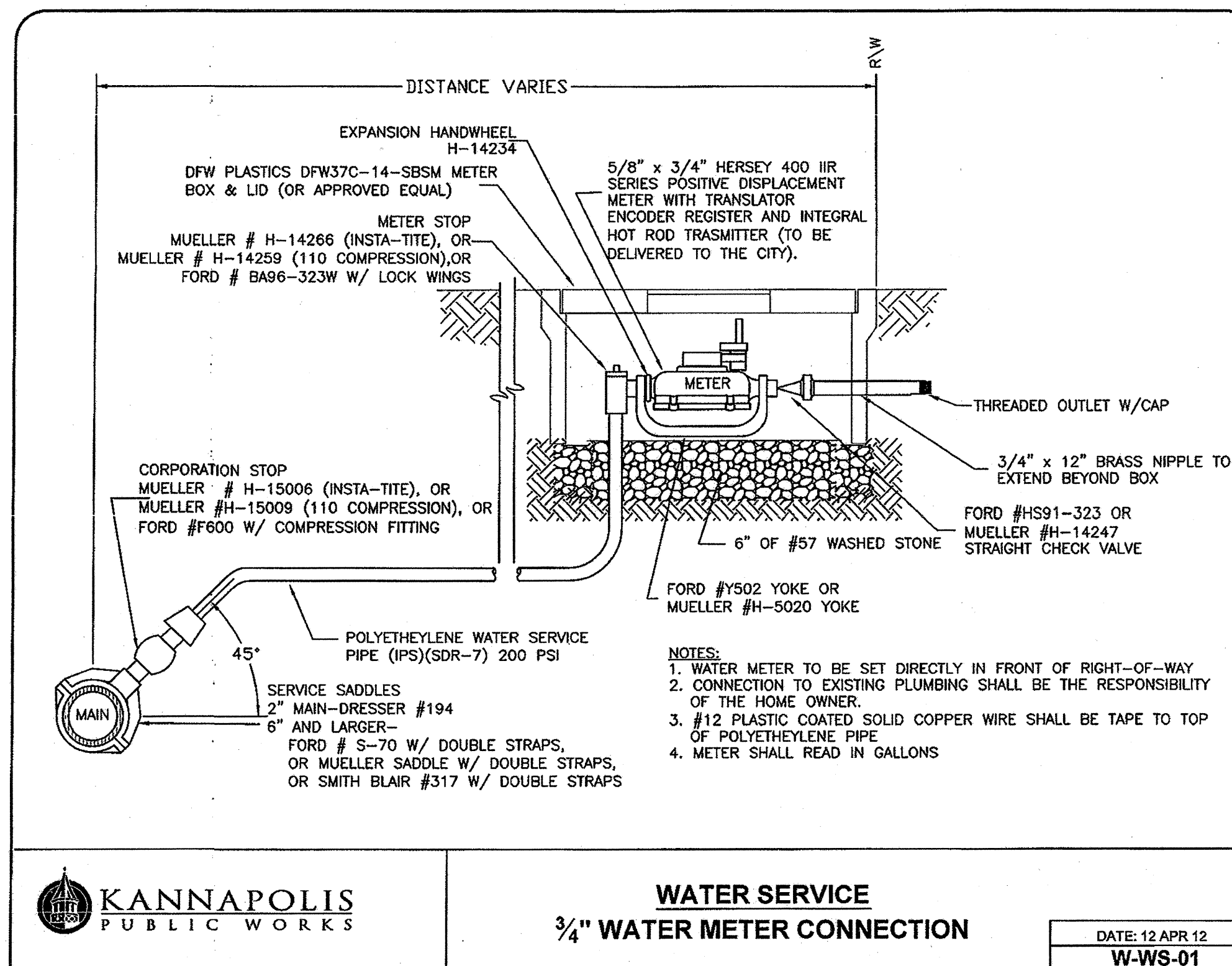
- All water main and sanitary sewer work shall be in accordance with Standard Specifications for Wastewater Collection and Water Distribution for the Water and Sewer Authority of Cabarrus County (WSACC). Contractor shall have a copy of these specifications on site at all times.
- All existing water and sewer mains are owned and operated by the City of Kannapolis. Contact the Kannapolis Public Works Department at 704-920-4200 prior to at least 48 hours prior to making any connection to the existing system.
- Sanitary sewer laterals and water meter locations are approximate and are subject to relocation due to field locations. Under no circumstances will cleanouts and meters be located in driveways.
- Water meters will meet City of Kannapolis standards. Contractor is responsible for installing meter boxes. Contractor shall coordinate with Jeanie Childers (704) 933-1133 to have water meters delivered to the Water and Sewer billing department.
- The developer will be responsible for paying applicable water and sewer connection fees before the final plat can be recorded.
- Contractor is fully responsible for contacting all appropriate parties assuring that utilities are located prior to commencement of construction. Call NC One call at 1-800-632-4949 for utility locating services 48 hours prior to commencement of any work. Contractor shall verify location and depth of all existing utilities prior to construction.
- Contractor shall be responsible for sewer overflows that occur due to activities initiated by them and shall be responsible for, but not limited to the costs associated with performing remedial work of/or environmental impacts and/or the paying of fines assessed by regulatory agencies and/or third party claims.
- All water mains shall have a minimum cover of 36-inches.
- Bedding for the sewer mains should be WSACC Class B bedding.
- Unless otherwise noted, waterlines shall be PVC C900 for 6"-12" diameter and PVC SDR 13.5 for 2"-4" diameter per WSACC standards.
- Unless otherwise noted, sewer mains shall be PVC SDR 35 per WSACC standards.
- Ductile iron pipe shall be required for both water and sanitary sewer if the following clearances are not met:
  - Waterline crossing under sanitary sewer (for any clearance)
  - 18-inch vertical for waterline installed above sewer line.
  - 10-foot horizontal separation for waterline parallel to sewer line (or 18-inch vertical separation in separate ditches).
  - For waterline 12-inch clearance with storm drains, gas mains, telephone ducts, and underground cables.
- Initial connection to the existing water main shall be in accordance with the City of Kannapolis detail for a temporary by-pass connection for filling new water mains. The temporary jumper connection shall be removed and the waterline connected to the existing system only after the proposed system has been pressure tested, chlorinated and accepted by the City of Kannapolis. No other connections will be allowed the existing system until the proposed system has been accepted.



KANNAPOLIS  
PUBLIC WORKS

FIRE HYDRANT

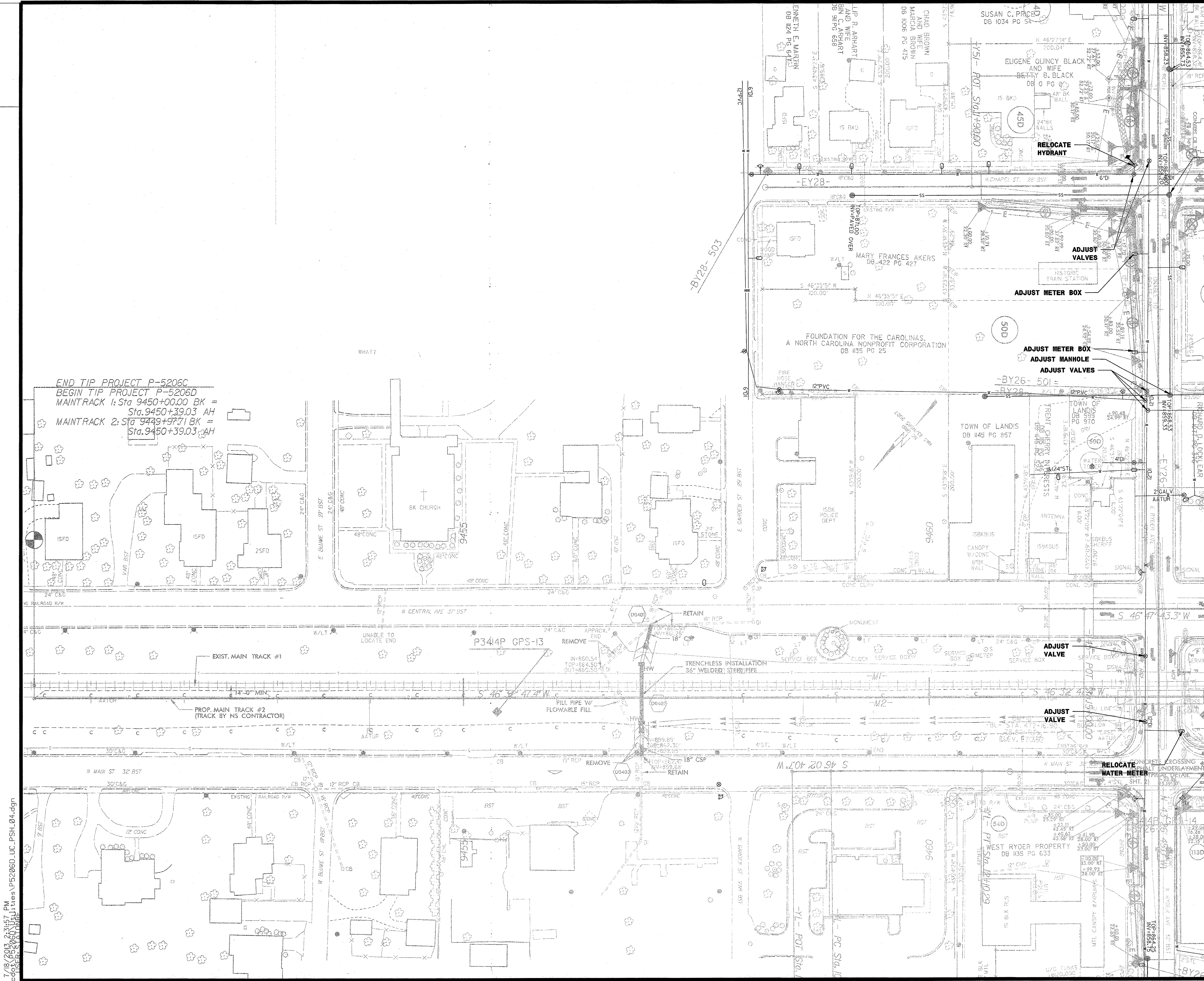
DATE: 06 JAN 09  
W-FH-01



KANNAPOLIS  
PUBLIC WORKS

WATER SERVICE  
3/4" WATER METER CONNECTION

DATE: 12 APR 12  
W-WS-01



END TIP PROJECT P-5206C  
 BEGIN TIP PROJECT P-5206D  
 MAINTRACK 1: Sta 9450+00.00 BK =  
 Sta.9450+39.03 AH  
 MAINTRACK 2: Sta 9449+97.71 BK =  
 Sta.9450+39.03 AH

PROJECT REFERENCE NO. P-5206D	SHEET NO. UC-4
DESIGNED BY: THB	
DRAWN BY: THB	
CHECKED BY: THB	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919)707-6690 FAX: (919)250-4151	
<b>CDM Smith</b> Utility Construction PLANS ONLY	

**UTILITY CONSTRUCTION**

GENERAL NOTES:  
 1. ALL WORK TO BE PERFORMED INSIDE NCCR RIGHT OF WAY WILL BE IN ACCORDANCE WITH NCCR STANDARD SPECIFICATIONS 101, 102 AND 103.  
 2. COORDINATE TEMPORARY SHUT OFF WITH OWNER OF UTILITY, INCLUDING THE TOWN OF LANDIS, THE CITY OF KANNAPOLIS, AND ANY PRIVATE OWNER.

UTILITY OWNERS THIS SHEET  
 SEWER TOWN OF LANDIS  
 WATER TOWN OF LANDIS

MATCH TO SHEET UC-5 - Y51- POT 14 + 43.81

MATCH TO SHEET UC-5 - M2- POT 9463 + 00.00

0164DEL P10b2

PROJECT REFERENCE NO.	SHEET NO.
P-5206D	UC-5
DESIGNED BY: THB	
DRAWN BY: THB	
CHECKED BY: THB	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SECTION PHONE: (919) 707-6690 FAX: (919) 250-4151	

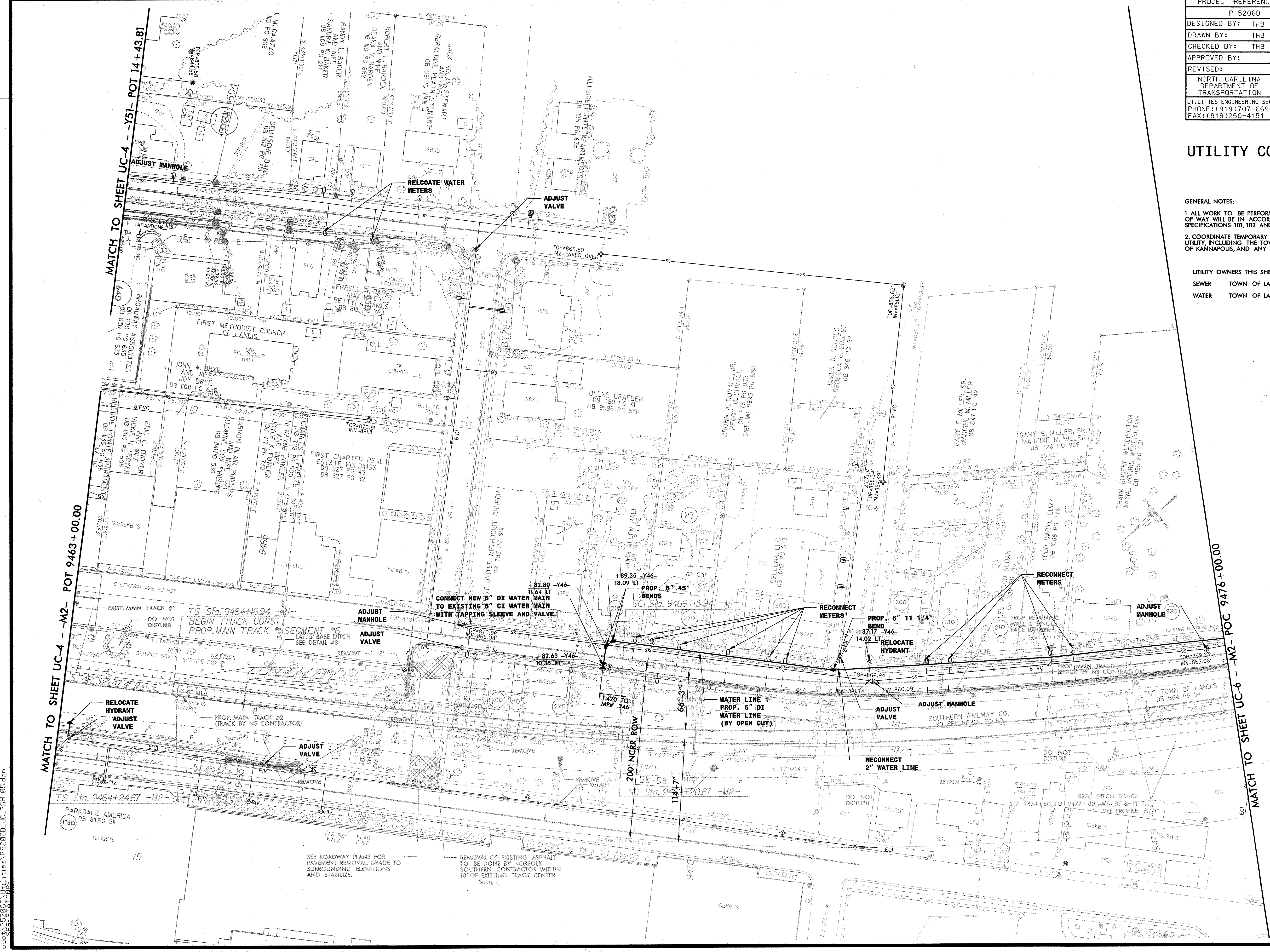
### UTILITY CONSTRUCTION

GENERAL NOTES:

- ALL WORK TO BE PERFORMED INSIDE NCRR RIGHT OF WAY WILL BE IN ACCORDANCE WITH NCRR STANDARD SPECIFICATIONS 101, 102 AND 103.
- COORDINATE TEMPORARY SHUT OFF WITH OWNER OF UTILITY, INCLUDING THE TOWN OF LANDIS, THE CITY OF KANNAPOLIS, AND ANY PRIVATE OWNER.

UTILITY OWNERS THIS SHEET

SEWER	TOWN OF LANDIS
WATER	TOWN OF LANDIS



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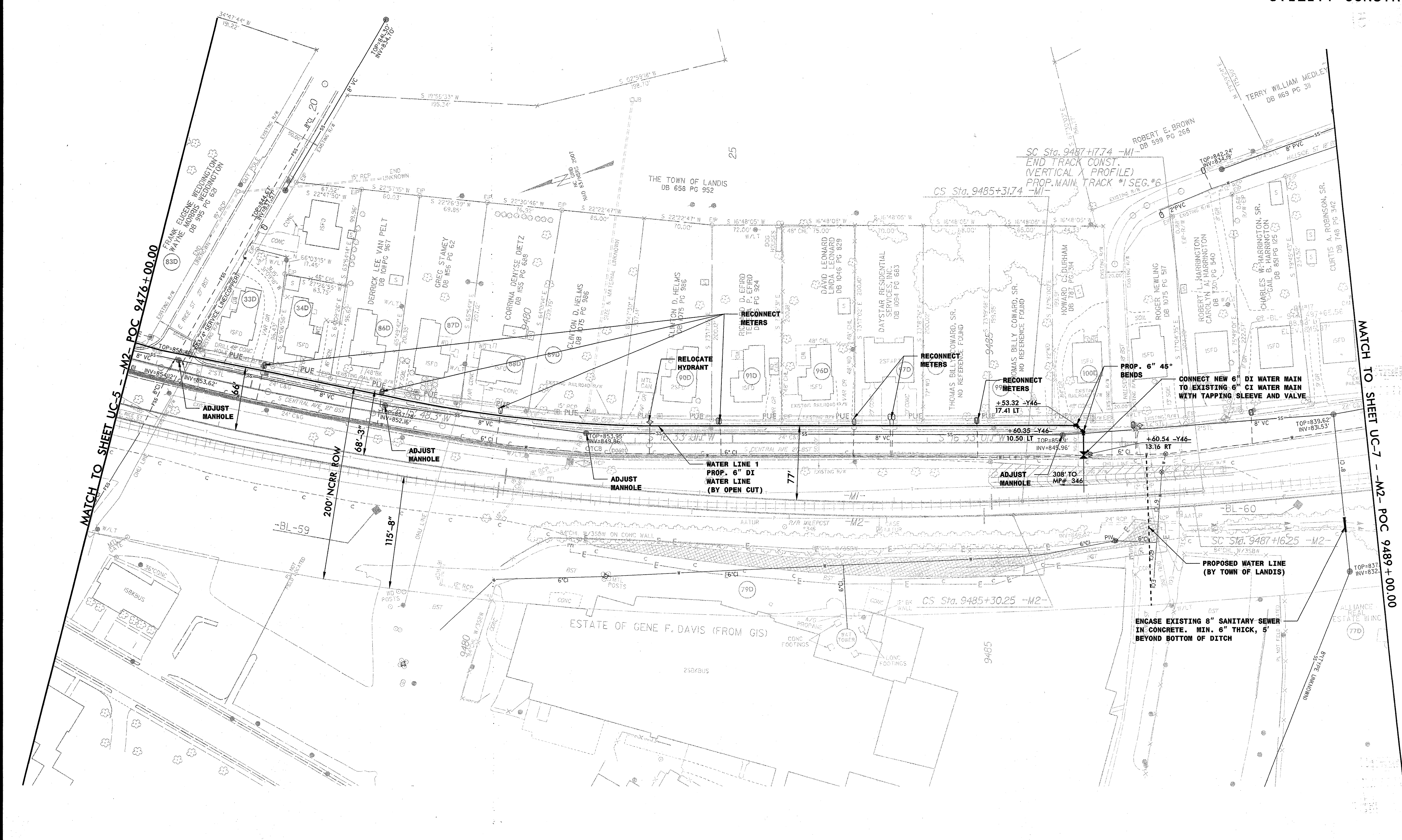
PROJECT REFERENCE NO.	P-5206D	SHEET NO.	UC-6
DESIGNED BY:	THB		
DRAWN BY:	THB		
CHECKED BY:	THB		
APPROVED BY:	THB		
REVISED:			
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151		UTILITY CONSTRUCTION PLANS ONLY	

**GENERAL NOTES:**

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- COORDINATE TEMPORARY SHUT OFF WITH OWNER OF UTILITY INCLUDING THE TOWN OF LANDIS, THE CITY OF KANNAPOLIS, AND ANY PRIVATE OWNER.

**UTILITY OWNERS THIS SHEET**

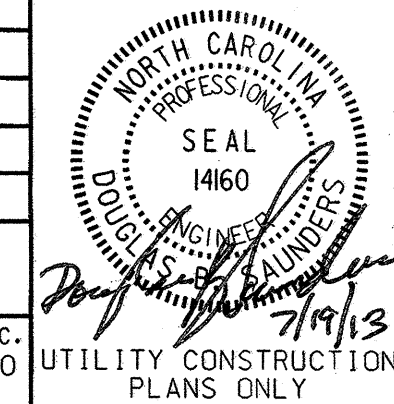
SEWER TOWN OF LANDIS  
 WATER TOWN OF LANDIS



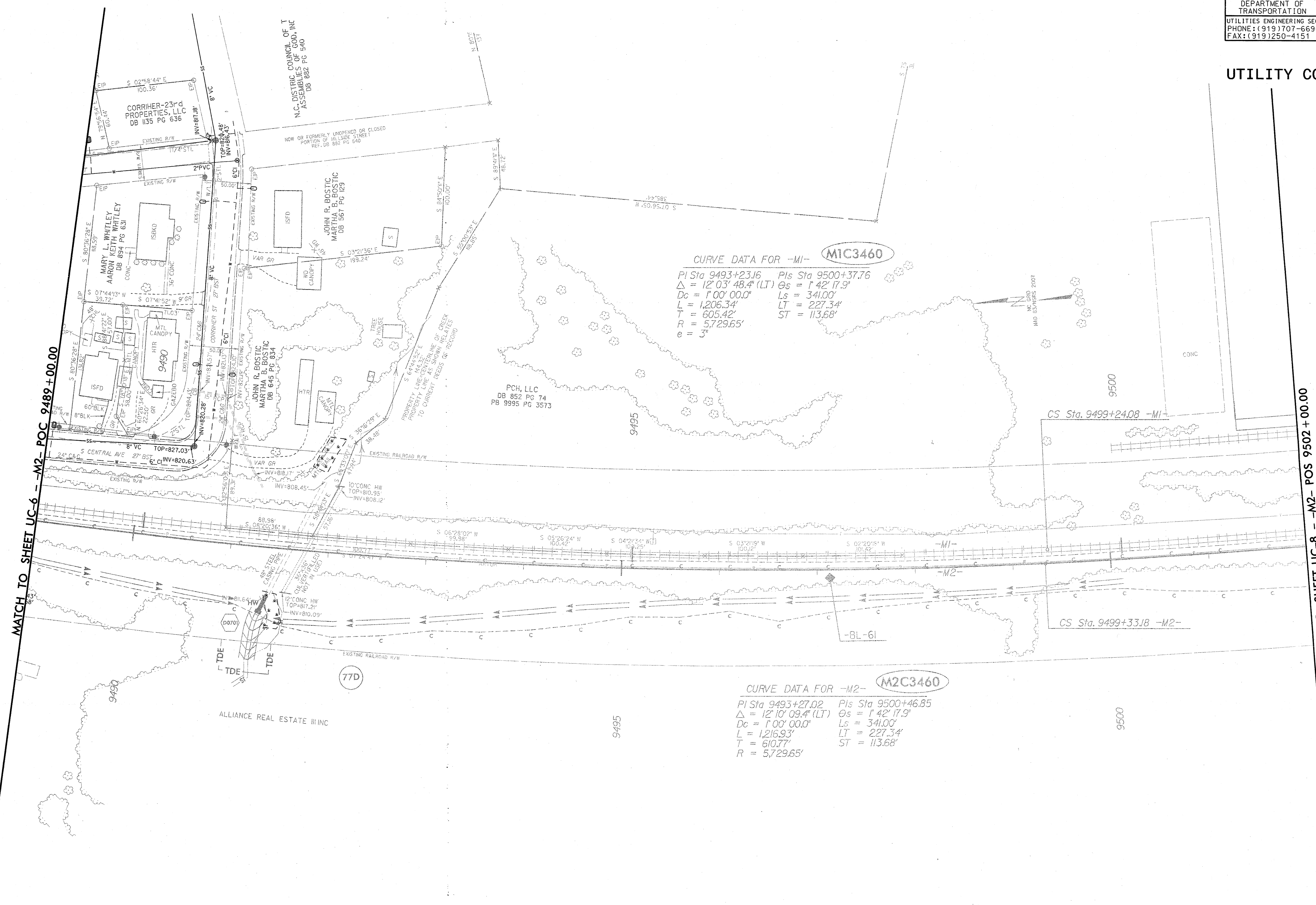
UTILITY CONSTRUCTION

GENERAL NOTES:  
1. ALL WORK TO BE PERFORMED INSIDE NCCR RIGHT OF WAY WILL BE IN ACCORDANCE WITH NCCR STANDARD SPECIFICATIONS 101, 102 AND 103.  
UTILITY OWNERS THIS SHEET  
SEWER TOWN OF LANDIS  
WATER TOWN OF LANDIS

PROJECT REFERENCE NO.	P-5206D	SHEET NO.	UC-7
DESIGNED BY:	THB		
DRAWN BY:	THB		
CHECKED BY:	THB		
APPROVED BY:			
REVISED:			
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION			
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4191			
UTILITY CONSTRUCTION PLANS ONLY			



UTILITY CONSTRUCTION



CURVE DATA FOR -M1- MIC3460  
 PI Sta 9493+23.16 Pls Sta 9500+37.76  
 $\Delta = 12^\circ 03' 48.4''$  (LT)  $\Theta_s = 1^\circ 42' 17.9''$   
 $D_c = 1^\circ 00' 00.0''$   $L_s = 341.00'$   
 $L = 1,206.34'$   $LT = 227.34'$   
 $T = 605.42'$   $ST = 113.68'$   
 $R = 5,729.65'$   
 $e = 3'$

CURVE DATA FOR -M2- M2C3460  
 PI Sta 9493+27.02 Pls Sta 9500+46.85  
 $\Delta = 12^\circ 10' 09.4''$  (LT)  $\Theta_s = 1^\circ 42' 17.9''$   
 $D_c = 1^\circ 00' 00.0''$   $L_s = 341.00'$   
 $L = 1,216.93'$   $LT = 227.34'$   
 $T = 610.77'$   $ST = 113.68'$   
 $R = 5,729.65'$

MATCH TO SHEET UC-6 -M2- POC 9489+00.00

MATCH TO SHEET UC-8 -M2- POS 9502+00.00



PCN

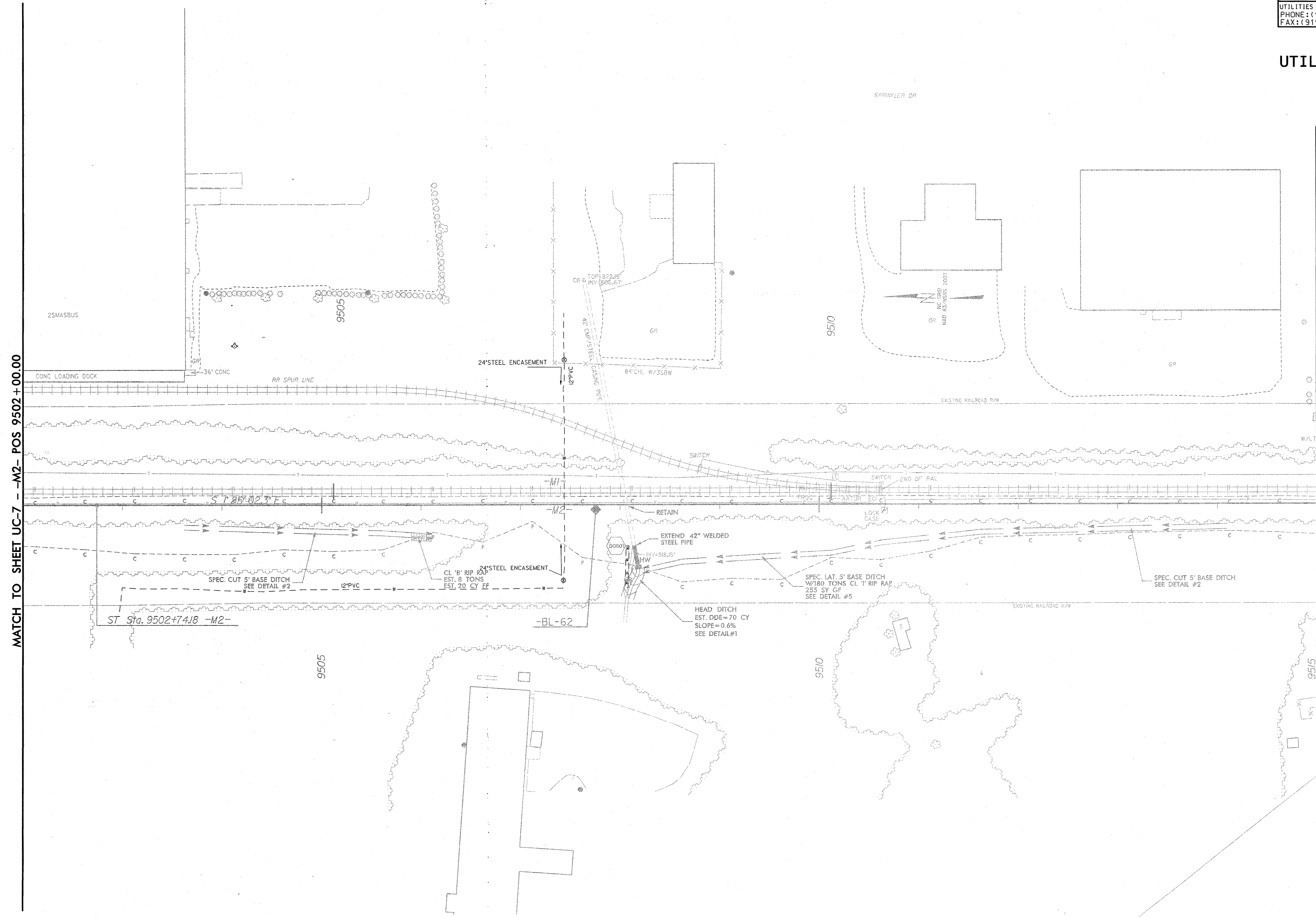
0164DEL P10b2

GENERAL NOTES:  
 1. ALL WORK TO BE PERFORMED INSIDE NCRR RIGHT OF WAY WILL BE IN ACCORDANCE WITH NCRR STANDARD SPECIFICATIONS 101, 102 AND 103.

UTILITY OWNERS THIS SHEET  
 SEWER TOWN OF LANDIS  
 WATER TOWN OF LANDIS

PROJECT REFERENCE NO.	SHEET NO.
P-5206D	UC-8
DESIGNED BY: THB	
DRAWN BY: THB	
CHECKED BY: THB	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919)707-6690 FAX: (919)250-4151	

UTILITY CONSTRUCTION



MATCH TO SHEET UC-7 --M2-- POS 9502+00.00

MATCH TO SHEET UC-9 --M2-- POT 9515+00.00

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**GENERAL NOTES:**  
 1. ALL WORK TO BE PERFORMED INSIDE NCCR RIGHT OF WAY WILL BE IN ACCORDANCE WITH NCCR STANDARD SPECIFICATIONS 101, 102 AND 103.  
 2. COORDINATE TEMPORARY SHUT OFF WITH OWNER OF UTILITY, INCLUDING THE TOWN OF LANDIS, THE CITY OF KANNAPOLIS, AND ANY PRIVATE OWNER.

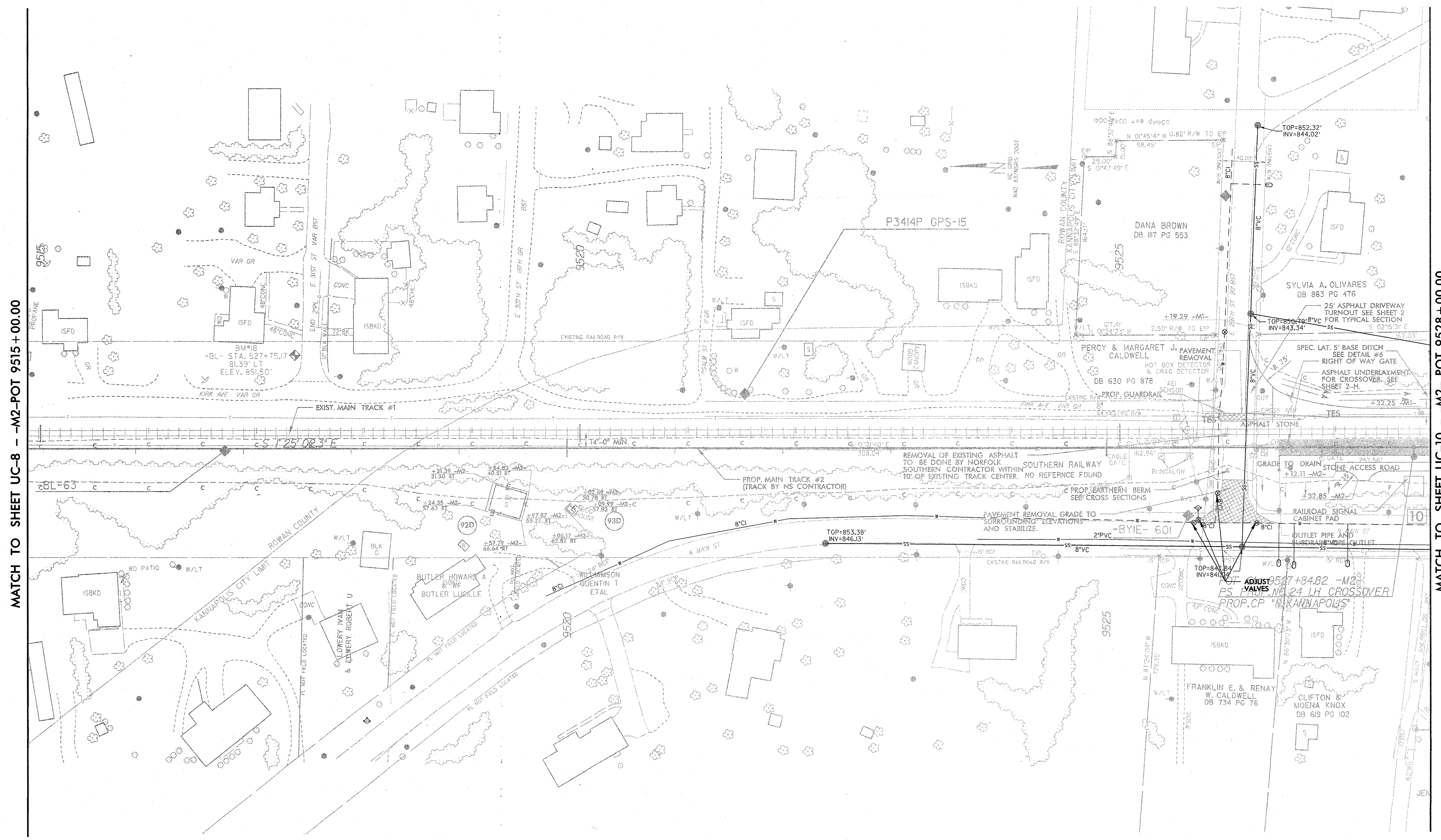
**UTILITY OWNERS THIS SHEET**  
 SEWER CITY OF KANNAPOLIS  
 WATER CITY OF KANNAPOLIS

DESIGNED BY: THB	
DRAWN BY: THB	
CHECKED BY: THB	
APPROVED BY:	
REVISED:	

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
 UTILITIES ENGINEERING SEC.  
 PHONE: (919) 707-6690  
 FAX: (919) 1250-4151



**UTILITY CONSTRUCTION**



MATCH TO SHEET UC-8 -- M2-POT 9515 + 00.00

MATCH TO SHEET UC-10 -- M2-POT 9528 + 00.00

0164DEL P10b2

GENERAL NOTES:

1. ALL WORK TO BE PERFORMED INSIDE NCCR RIGHT OF WAY WILL BE IN ACCORDANCE WITH NCCR STANDARD SPECIFICATIONS 101, 102 AND 103.

2. COORDINATE TEMPORARY SHUT OFF WITH OWNER OF UTILITY, INCLUDING THE TOWN OF LANDIS, THE CITY OF KANNAPOLIS, AND ANY PRIVATE OWNER.

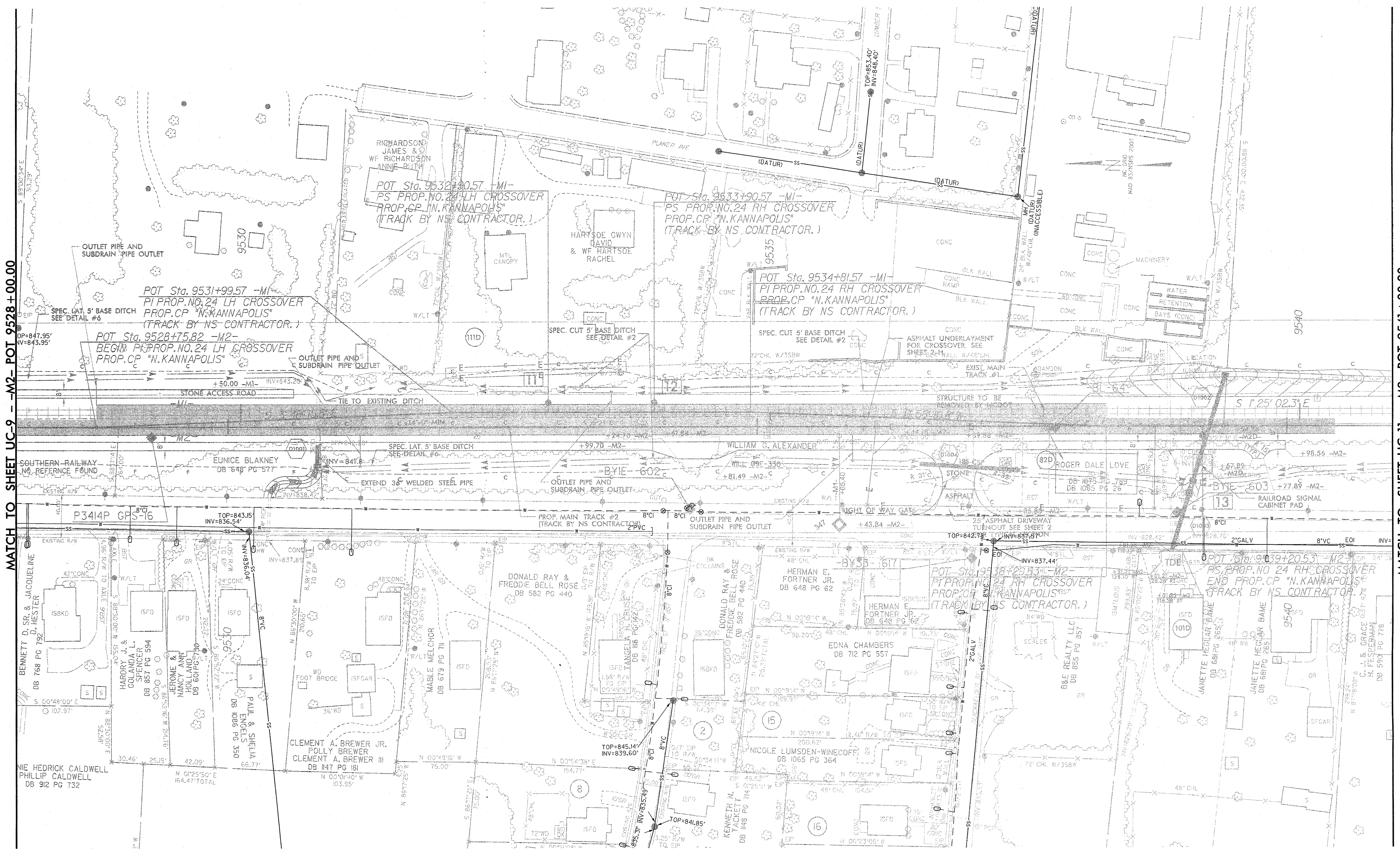
UTILITY OWNERS THIS SHEET

SEWER CITY OF KANNAPOLIS  
WATER CITY OF KANNAPOLIS

PROJECT REFERENCE NO.	SHEET NO.
P-5206D	UC-10
DESIGNED BY: THB	
DRAWN BY: THB	
CHECKED BY: THB	
APPROVED BY:	
REVISED:	NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151



UTILITY CONSTRUCTION



MATCH TO SHEET UC-9 - M2 - POT 9528+00.00

MATCH TO SHEET UC-11 - M2 - POT 9541+00.00

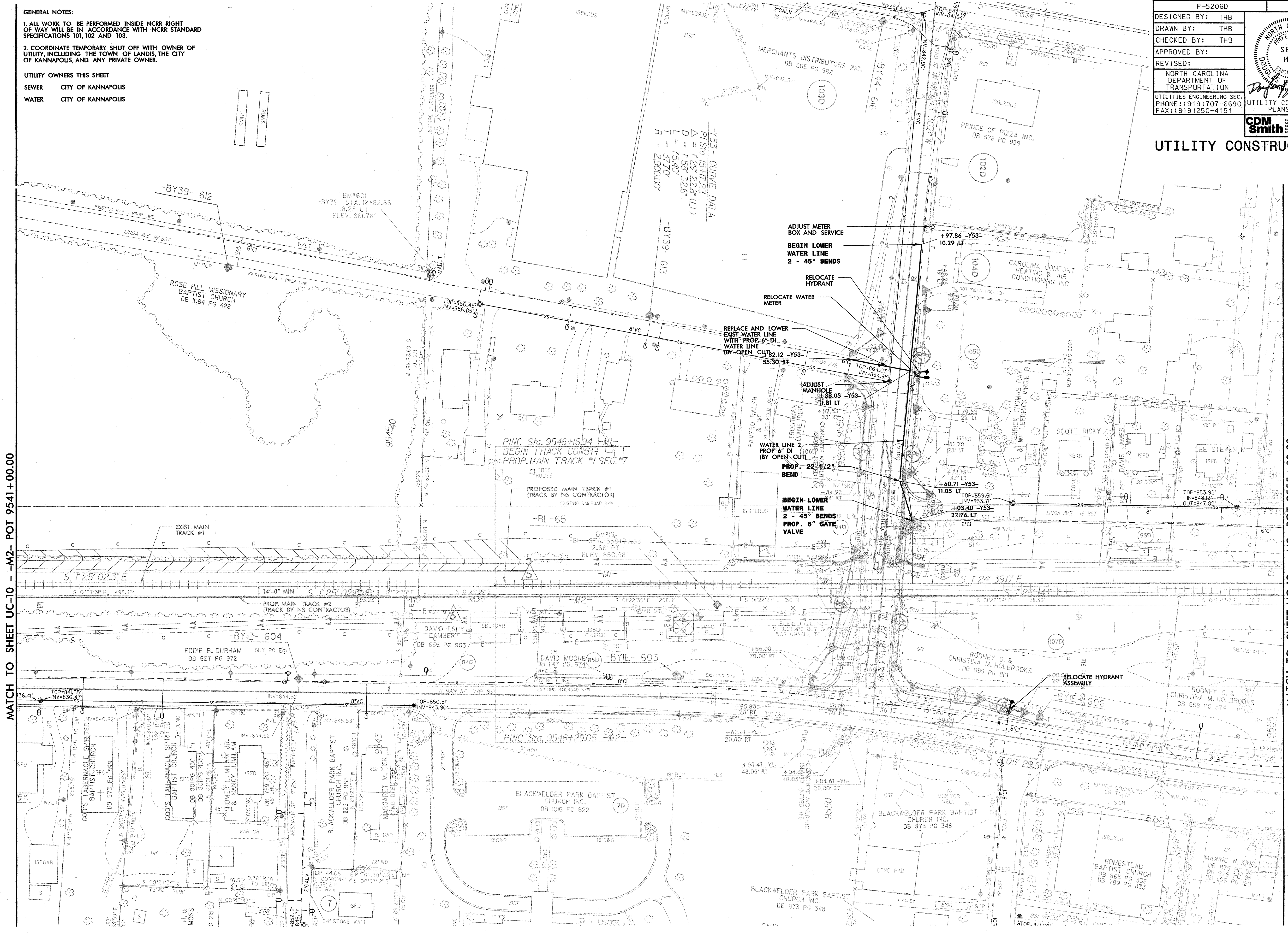
**GENERAL NOTES:**  
 1. ALL WORK TO BE PERFORMED INSIDE NCCR RIGHT OF WAY WILL BE IN ACCORDANCE WITH NCCR STANDARD SPECIFICATIONS 101, 102 AND 103.  
 2. COORDINATE TEMPORARY SHUT OFF WITH OWNER OF UTILITY, INCLUDING THE TOWN OF LANDIS, THE CITY OF KANNAPOLIS, AND ANY PRIVATE OWNER.  
**UTILITY OWNERS THIS SHEET**  
 SEWER CITY OF KANNAPOLIS  
 WATER CITY OF KANNAPOLIS

PROJECT REFERENCE NO.	SHEET NO.
P-5206D	UC-11
DESIGNED BY: THB	
DRAWN BY: THB	
CHECKED BY: THB	
APPROVED BY:	
REVISIONS:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	

**UTILITY CONSTRUCTION**

MATCH TO SHEET UC-10 - -M2- POT 9541+00.00

MATCH TO SHEET UC-12 - -M2- POT 9555+00.00

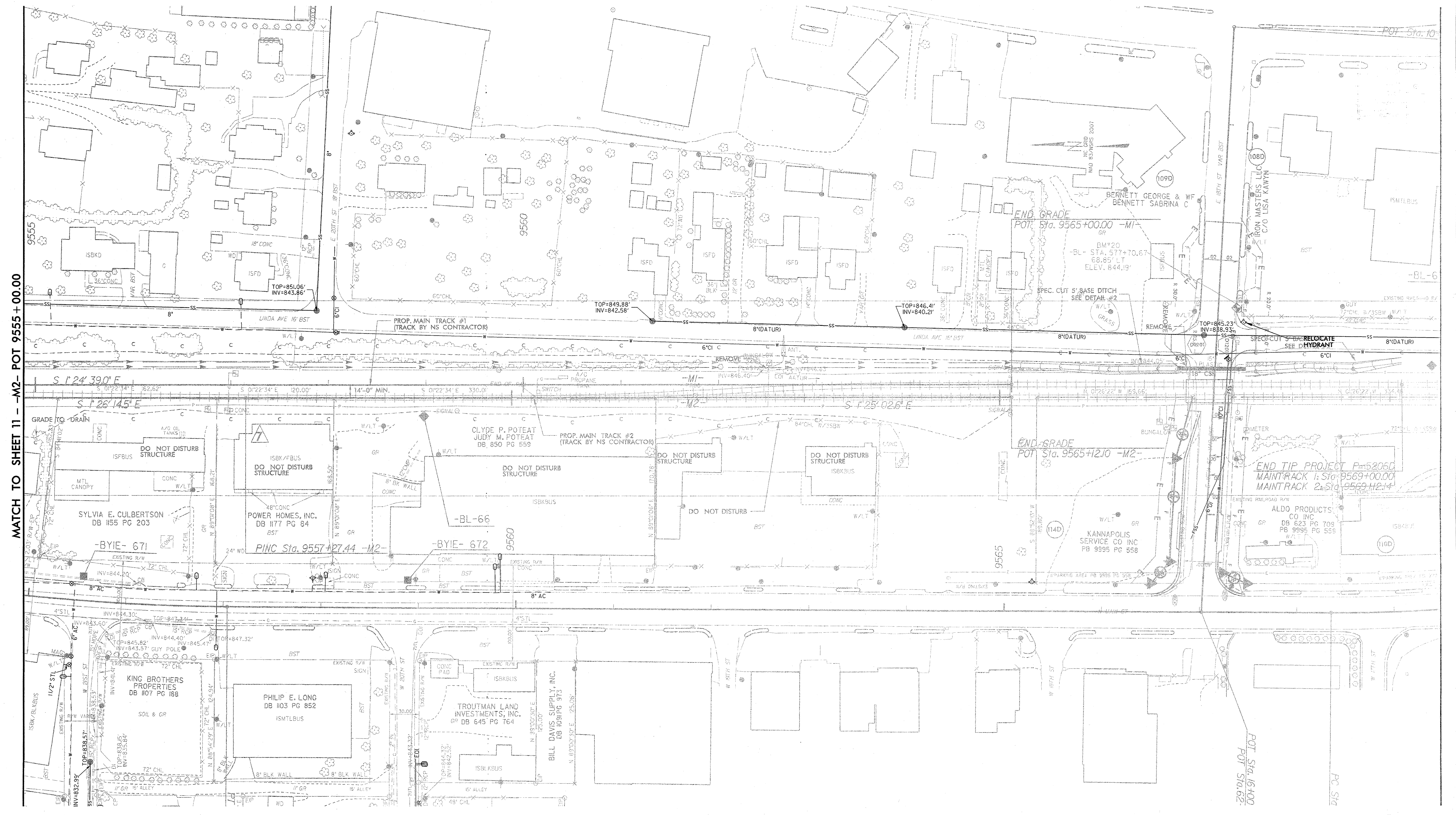


**GENERAL NOTES:**  
 1. ALL WORK TO BE PERFORMED INSIDE NCR RIGHT OF WAY WILL BE IN ACCORDANCE WITH NCR STANDARD SPECIFICATIONS 101, 102 AND 103.  
 2. COORDINATE TEMPORARY SHUT OFF WITH OWNER OF UTILITY, INCLUDING THE TOWN OF LANDIS, THE CITY OF KANNAPOLIS, AND ANY PRIVATE OWNER.

**UTILITY OWNERS THIS SHEET**  
 SEWER CITY OF KANNAPOLIS  
 WATER CITY OF KANNAPOLIS

PROJECT REFERENCE NO.	P-5206D	SHEET NO.	UC-12
DESIGNED BY:	THB		
DRAWN BY:	THB		
CHECKED BY:	THB		
APPROVED BY:			
REVISED:			
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION		UTILITY CONSTRUCTION PLANS ONLY	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151		CDM Smith	

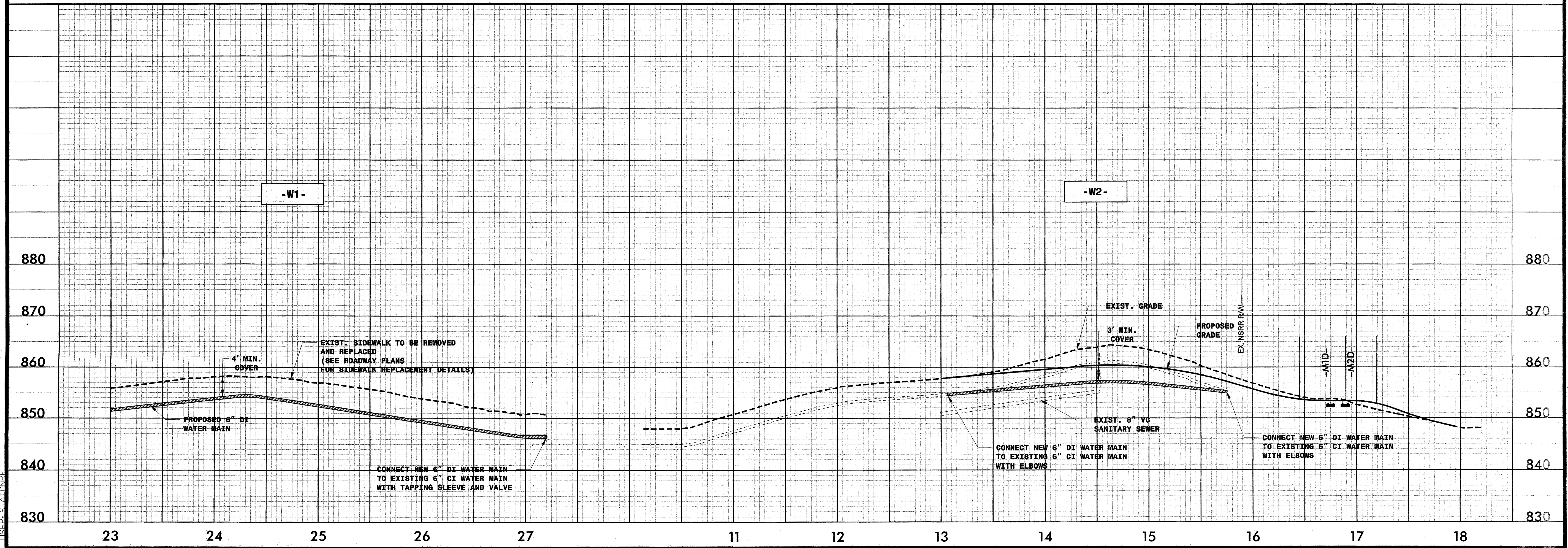
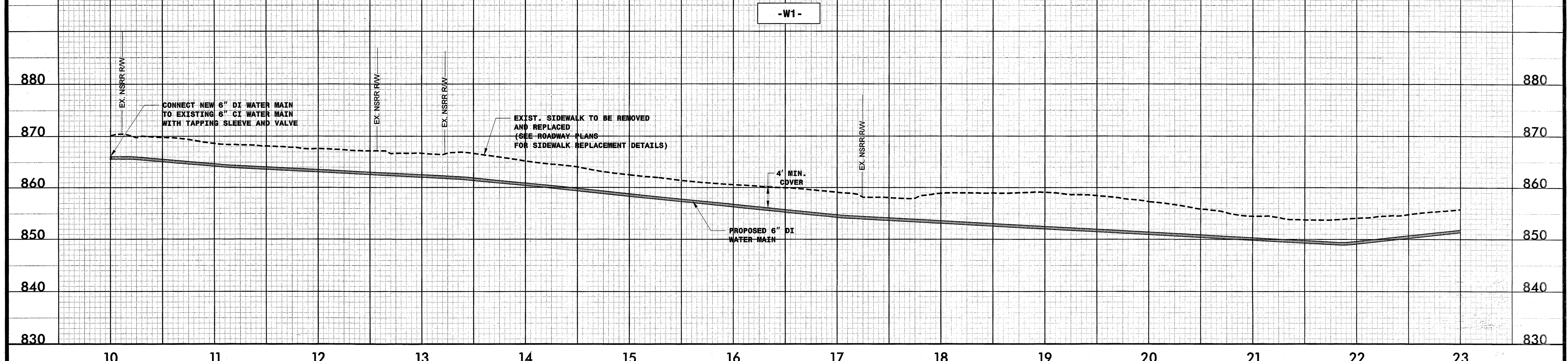
**UTILITY CONSTRUCTION**



MATCH TO SHEET 11 - M2 - POT 9555 + 00.00

END TIP PROJECT P-5206D  
 MAINTRACK 1: Sta. 9569+00.00  
 MAINTRACK 2: Sta. 9569+12.14

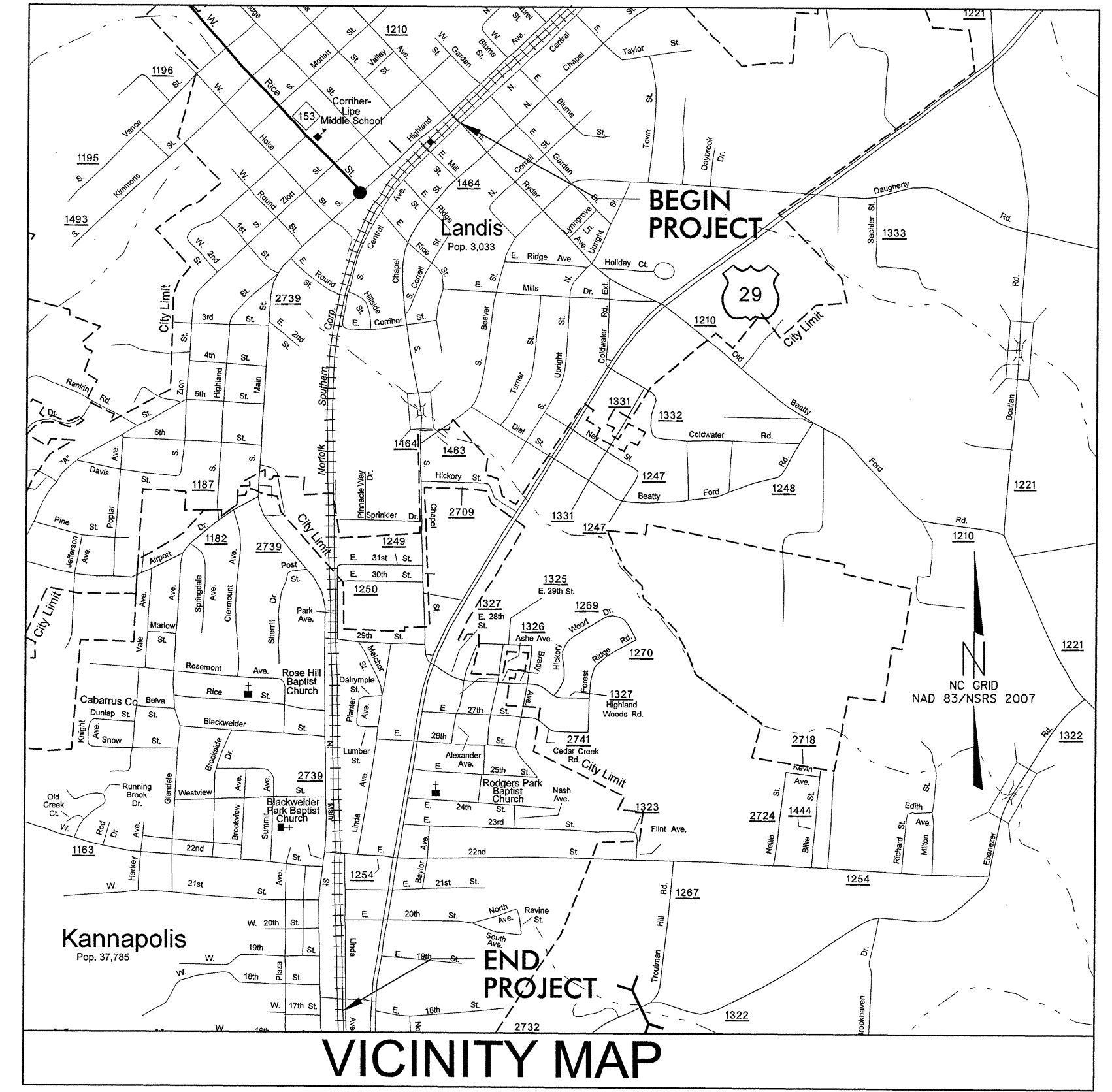
PROJECT REFERENCE NO.	SHEET NO.
P-5206D	UC-13
DESIGNED BY: THB	
DRAWN BY: THB	
CHECKED BY: THB	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	



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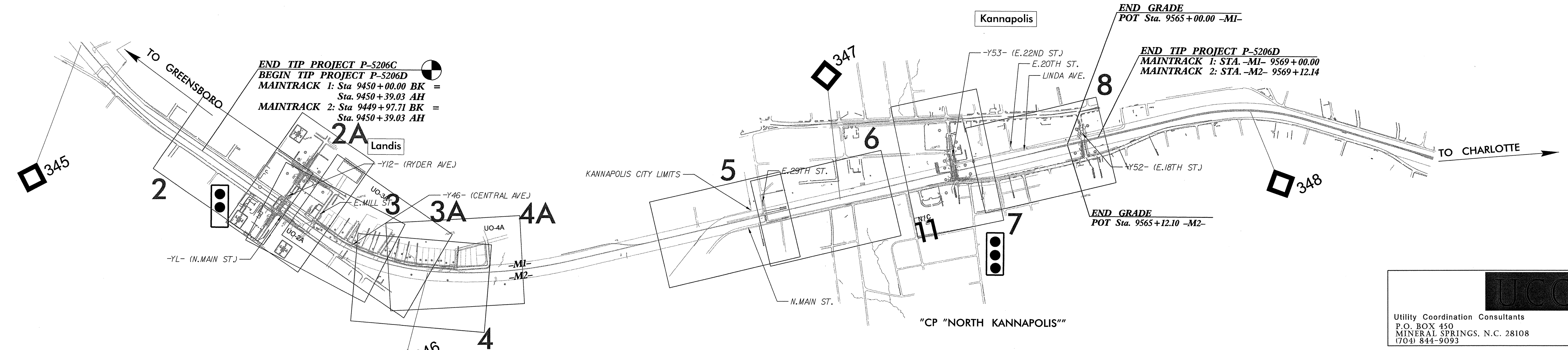
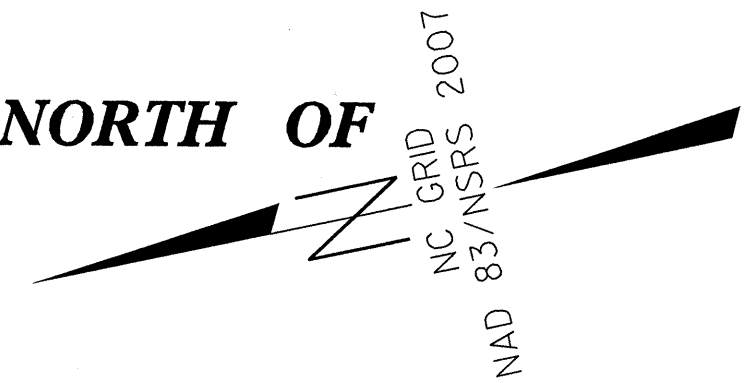
**TIP PROJECT: P-5206D**  
**CONTRACT: C203207**



STATE OF NORTH CAROLINA  
 DIVISION OF HIGHWAYS  
**UTILITIES BY OTHERS PLANS**  
**ROWAN COUNTY**

T.I.P. NO.		SHEET NO.
P-5206D		UO-1
52001.1.STRO9T1B		PE, UTL, PE
52001.1.STR10T3		PE, UTL, PE
43219.2.STRO8P5206		ROW
52000.3.STR02T4D	FRA-FR-HSR-0006-10-01-00	UTL CONST, CONST

**LOCATION: NCRR/NS MAINLINE RAILROAD ROADBED FROM NORTH OF RYDER AVE (SR 1210, MP 345.4) TO CP "NORTH KANAPOLIS" (MP 348.3)**  
**TYPE OF WORK: RELOCATION OF POWER, TELEPHONE, GAS, AND CATV**



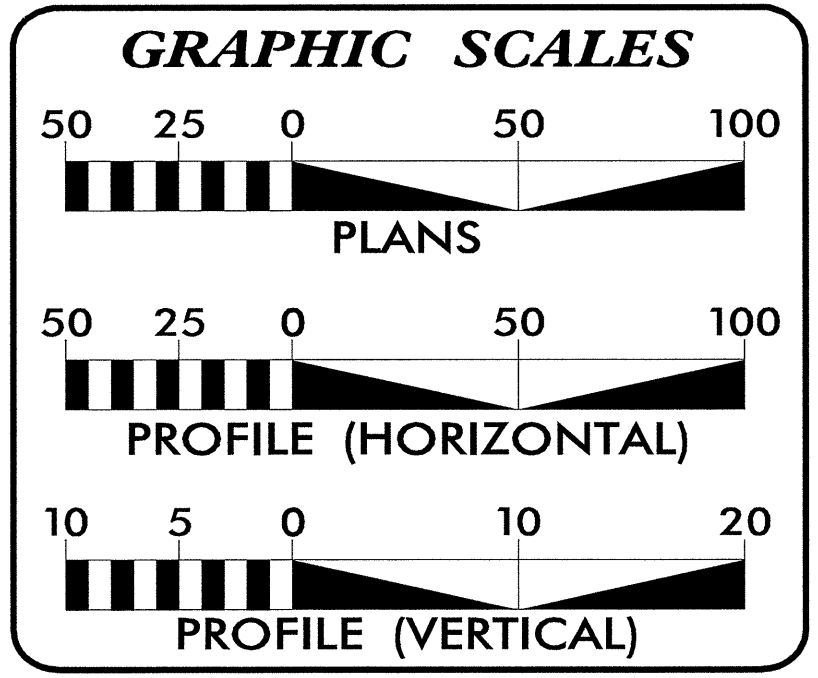
**END TIP PROJECT P-5206C**  
**BEGIN TIP PROJECT P-5206D**  
**MAINTRACK 1: Sta. 9450+00.00 BK = Sta. 9450+39.03 AH**  
**MAINTRACK 2: Sta. 9449+97.71 BK = Sta. 9450+39.03 AH**

**END GRADE**  
**POT Sta. 9565+00.00 -M1-**  
**END TIP PROJECT P-5206D**  
**MAINTRACK 1: STA. -M1- 9569+00.00**  
**MAINTRACK 2: STA. -M2- 9569+12.14**

**END GRADE**  
**POT Sta. 9565+12.10 -M2-**

**UCC**  
 Utility Coordination Consultants  
 P.O. BOX 450  
 MINERAL SPRINGS, N.C. 28108  
 (704) 844-9093

**THESE PLANS DEPICT ESTIMATED LOCATIONS ONLY, AND ARE SUBJECT TO CHANGE. THIS DATA REPRESENTS A BEST GUESS REPRESENTATION .**



**INDEX OF SHEETS**

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

**UTILITY OWNERS ON PROJECT**

(A) DUKE ENERGY.....	POWER
(B) TOWN OF LANDIS.....	POWER
(C) WINDSTREAM.....	COMMUNICATION
(D) TIME WARNER CABLE.....	CATV
(E) TW TELECOM.....	COMMUNICATIONS
(F) PSNC.....	GAS

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

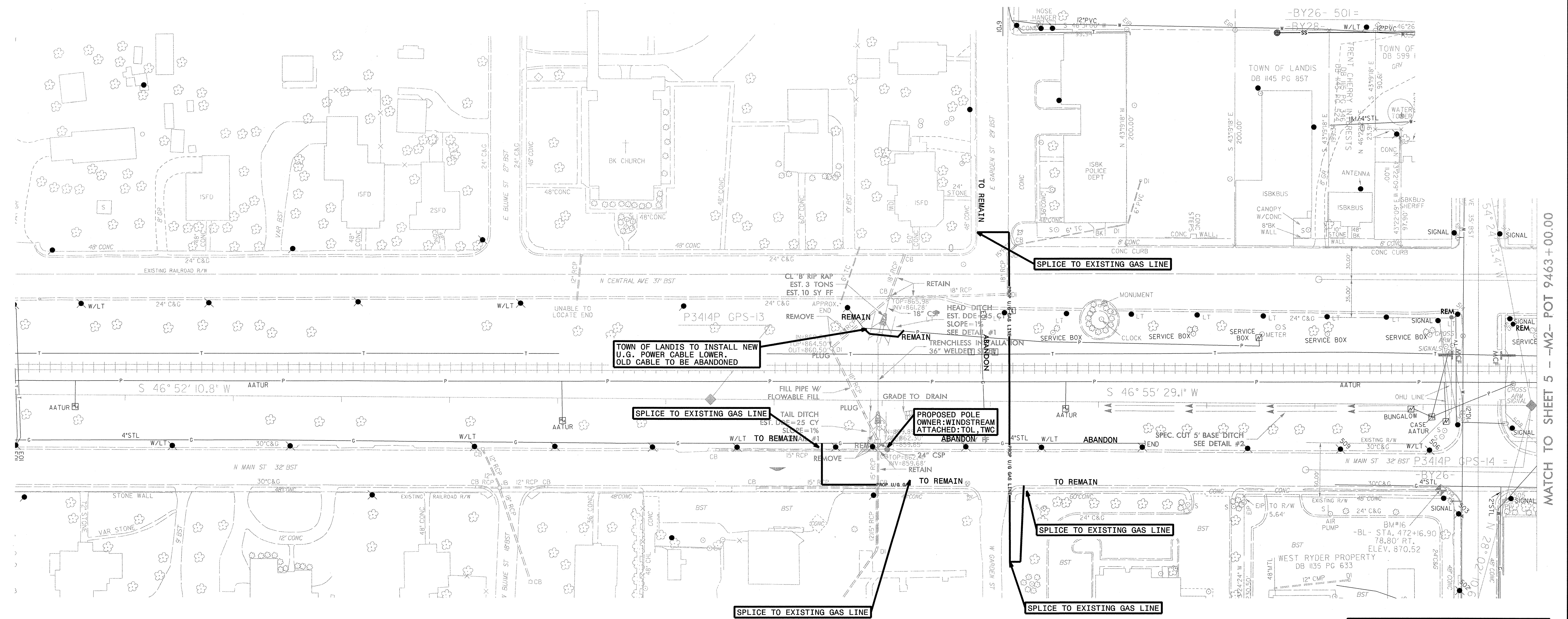
DCN  
0164DEL\_P10b2

5/14/99

PROJECT REFERENCE NO.	SHEET NO.
P-5206D	U0-2

### UTILITIES BY OTHERS

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



MATCH TO SHEET 5 -- M2 - POT 9463 + 00.00

SEE SHEET U0-2A FOR ROADWAY PLANS

22-AUG-2003 10:50 D:\engr\180 D-oung\1\From Mike\REVISED U0 PER MATT SIMONS 07-23-13\AP5206D.dwg U02.PSH.dgn  
1-Local 11-11-03 11:11 AM

**UCC**

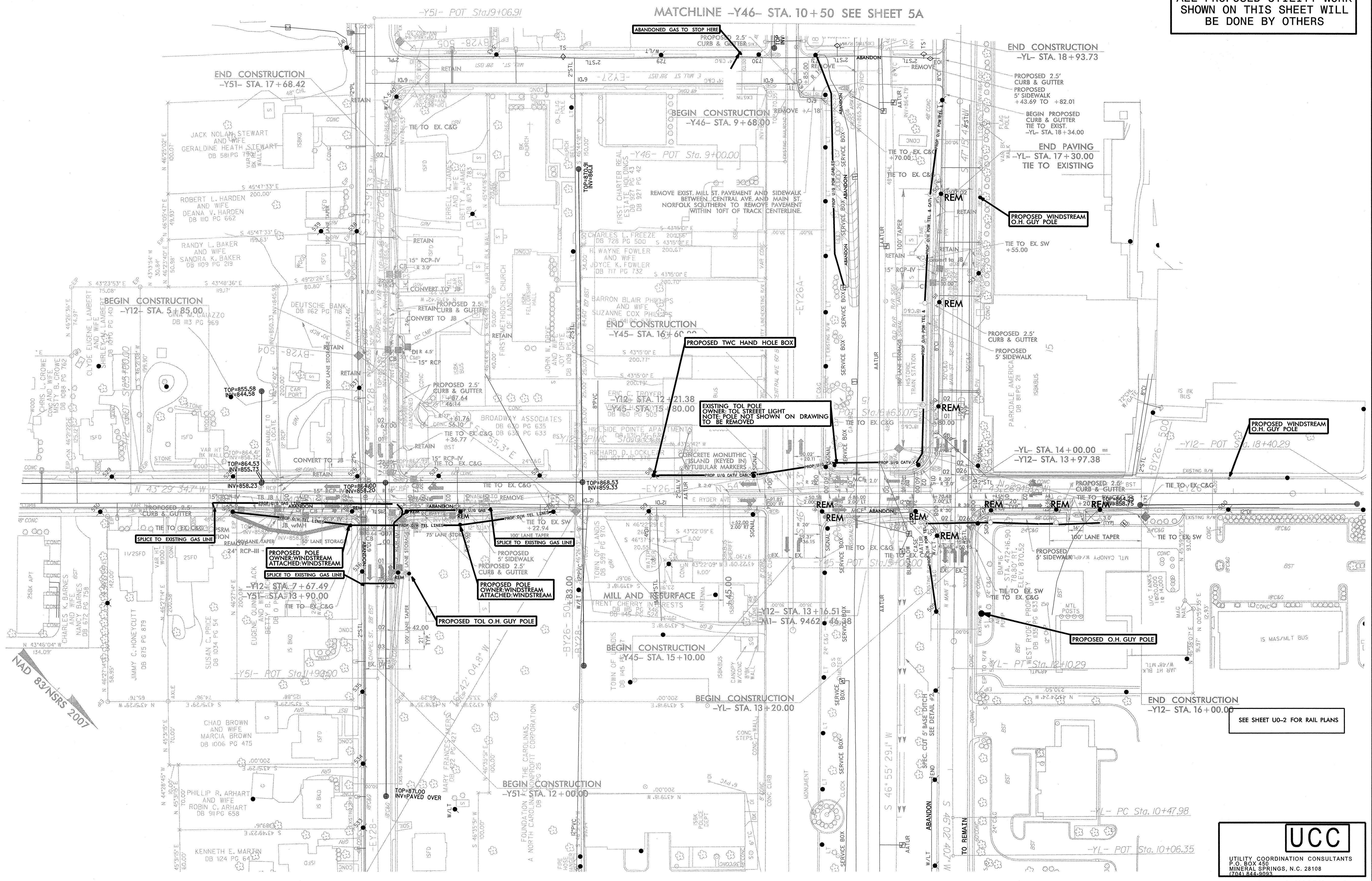
UTILITY COORDINATION CONSULTANTS  
P.O. BOX 450  
MINERAL SPRINGS, N.C. 28108  
(704) 844-9093



### UTILITIES BY OTHERS

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

5/14/99  
 DCN  
 0164DEL\_P10b2  
 Project P-5206D - AUG-2003 1525  
 Drawings From Mike P-5206D UO-2-A-23-13-AP-5206D.rvt UO-2A.PSH.dgn  
 URS  
 NAD 83/NSRS 2007



SEE SHEET UO-2 FOR RAIL PLANS

**UCC**  
 UTILITY COORDINATION CONSULTANTS  
 P.O. BOX 450  
 MINERAL SPRINGS, N.C. 28108  
 (704) 844-8084

# UTILITIES BY OTHERS

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



MATCH TO SHEET 4 - M2 - POT 9463 + 00.00

MATCH TO SHEET 6 - M2 - POC 9476 + 00.00

SEE SHEET UO-2A AND UO-3A  
FOR ROADWAY PLANS

UCC

Utility Coordination Consultants  
P.O. BOX 450  
MINERAL SPRINGS, N.C. 28108  
(704) 844-9093

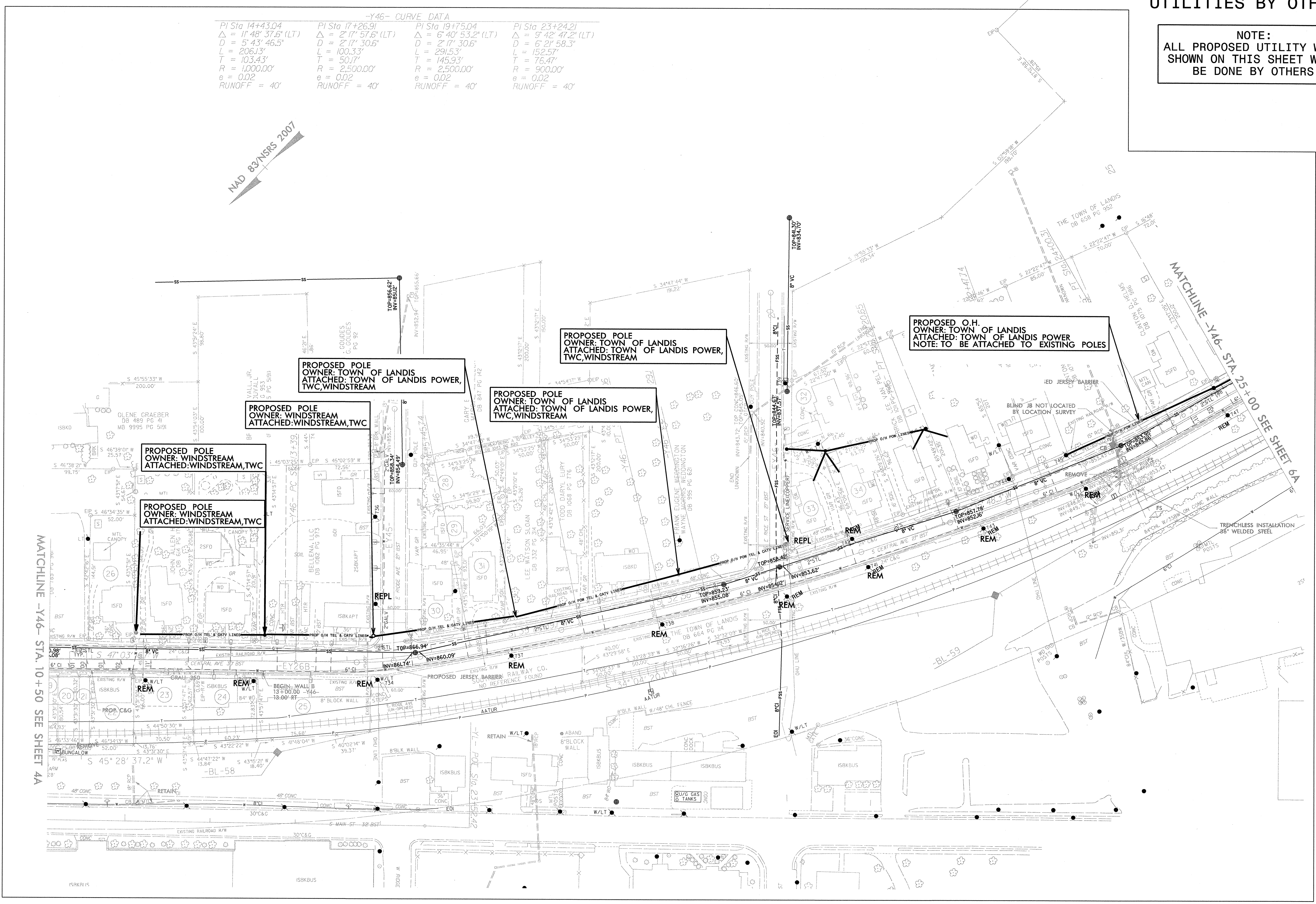
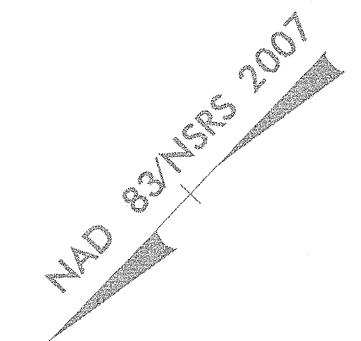
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 8/17/99  
 RR Bed Project P-5206D-Landis\Drawings\UBO Drawings\From Mike\REVISED UO PER MATT SIMONS 07-23-13\F5206D.rdy5.UO3.PSH.dgn  
 Sm.th

**UTILITIES BY OTHERS**

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

-Y46- CURVE DATA

PI Sta 14+43.04 Δ = 1° 48' 37.6" (LT) D = 5' 43" 46.5" L = 206.13' T = 103.43' R = 1,000.00' e = 0.02 RUNOFF = 40'	PI Sta 17+26.91 Δ = 2° 17' 57.6" (LT) D = 2' 17" 30.6" L = 100.33' T = 50.17' R = 2,500.00' e = 0.02 RUNOFF = 40'	PI Sta 19+75.04 Δ = 6° 40' 53.2" (LT) D = 2' 17" 30.6" L = 291.53' T = 145.93' R = 2,500.00' e = 0.02 RUNOFF = 40'	PI Sta 23+24.21 Δ = 9° 42' 47.2" (LT) D = 6' 21" 58.3" L = 152.57' T = 76.47' R = 900.00' e = 0.02 RUNOFF = 40'
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DCN  
0164DEL\_P10b2

23 AUG 2013 14:17 PROJECTS\CDM Smth RR Bed Project P-5206D-Landis\Drawings\UBO Drawings\From Mike\REVISED UD PER MATT SIMONS 07-23-13\PE206D-djfa\_LU03A\_PSH.dgn

MATCHLINE -Y46- STA. 10+50 SEE SHEET 4A

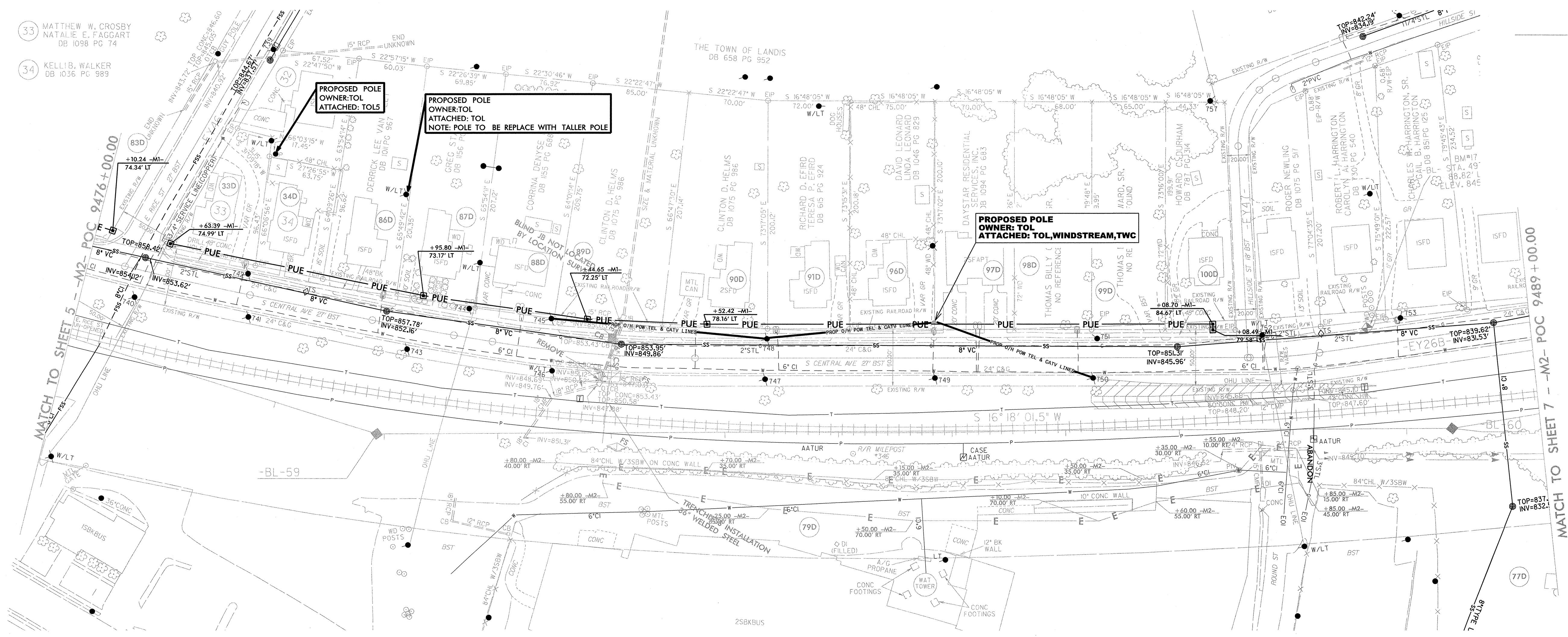
MATCHLINE -Y46- STA 25+00 SEE SHEET 6A

### UTILITIES BY OTHERS

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

DCN  
0164DEL\_P10b2

5/14/99  
J:\Projects\2013\07-23-13\PS206D.rvt.dwg U04.PSD.dgn  
22-AUG-2013 10:40 D:\enging\From Mike\REVISED UO PER MATT SIMONS 07-23-13\PS206D.rvt.dwg U04.PSD.dgn



SEE SHEET UO-3A AND SHEET UO-4A FOR ROADWAY

**UTILITIES BY OTHERS**

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

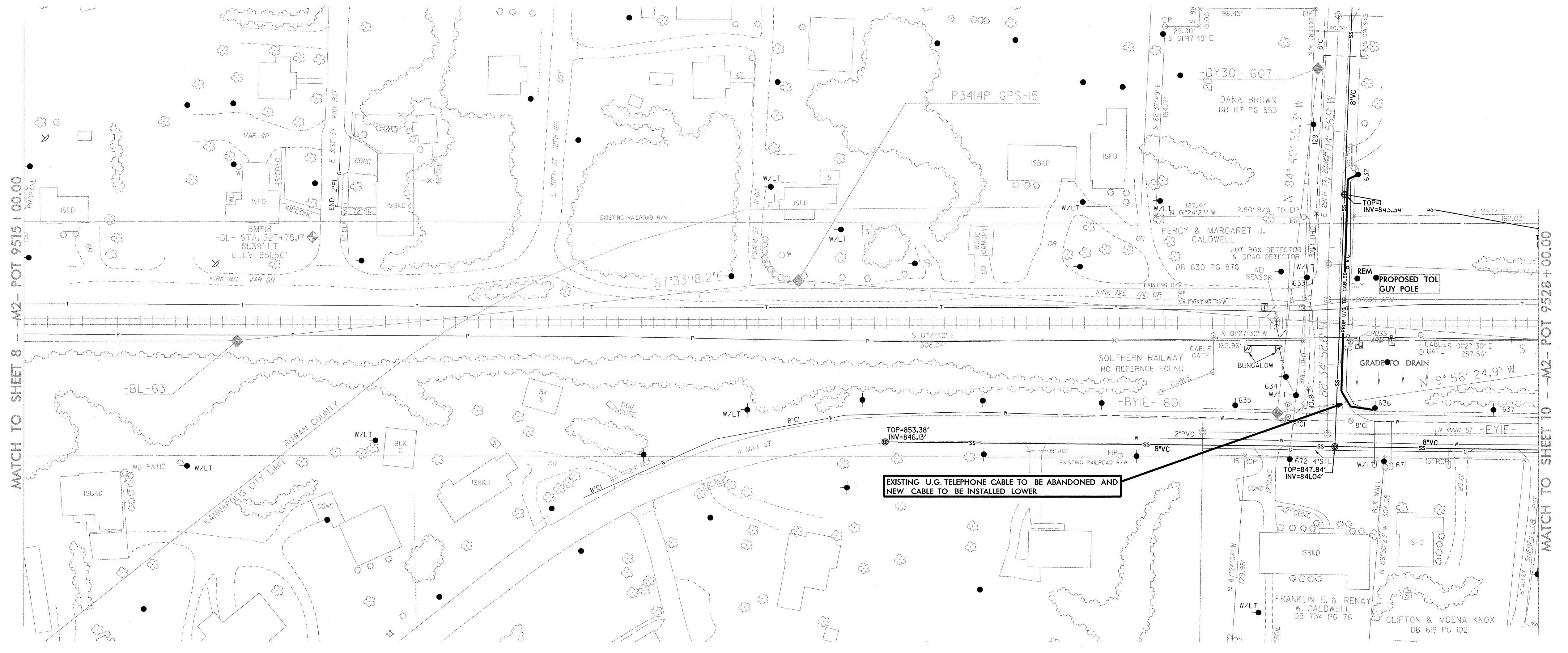


5/11/99  
 DCN  
 0164DEL\_P10b2  
 22-AUG-2013 10:01 AM  
 350-Lead-131V-2313V-2306D-r-dg6A.UO4A\_PSH.dgn  
 PER MATT SIMONS 07-23-13V-2306D-r-dg6A.UO4A\_PSH.dgn

**UCC**  
 UTILITY COORDINATION CONSULTANTS  
 P.O. BOX 450  
 MINERAL SPRINGS, N.C. 28108  
 770.41.844.8093

### UTILITIES BY OTHERS

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



EXISTING U.G. TELEPHONE CABLE TO BE ABANDONED AND  
NEW CABLE TO BE INSTALLED LOWER

MATCH TO SHEET 8 - M2 - POT 9515 + 00.00

MATCH TO SHEET 10 - M2 - POT 9528 + 00.00

DCN  
0164DEL\_P10b2

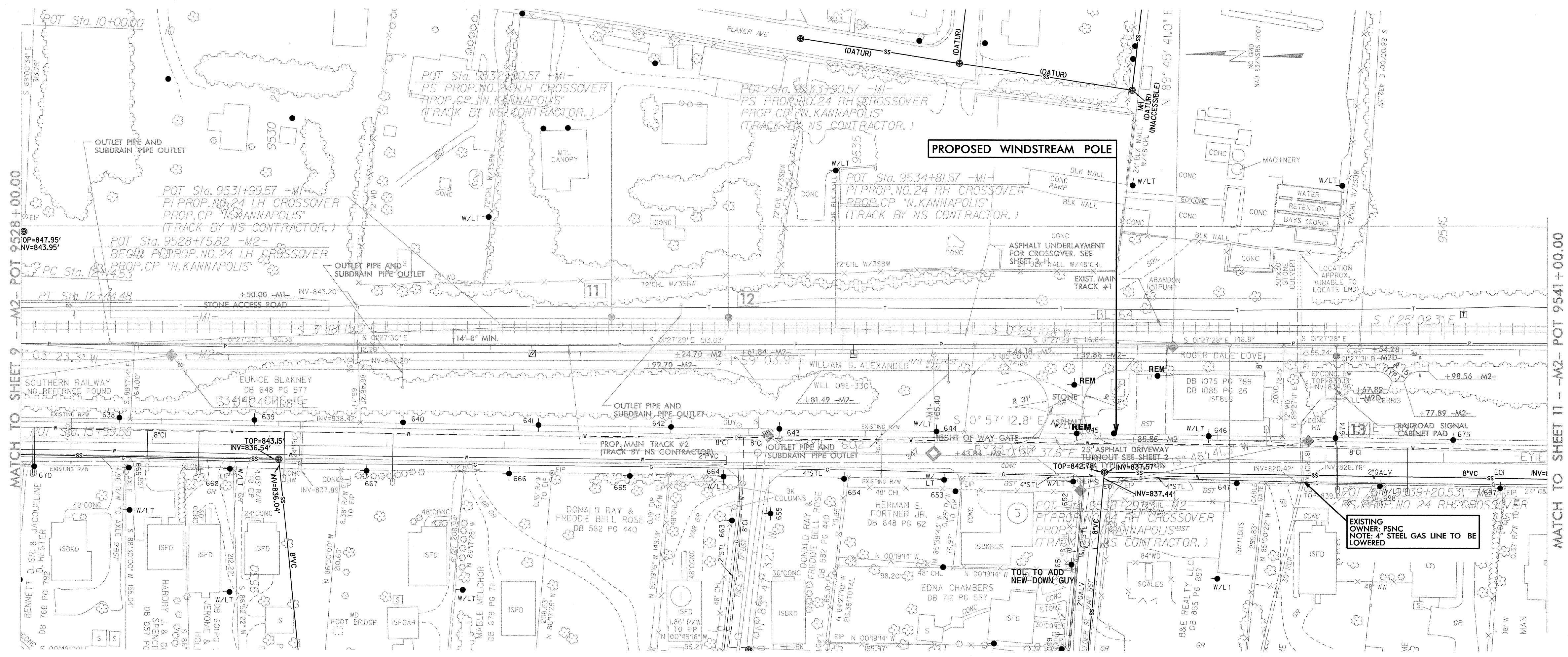
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### UTILITIES BY OTHERS

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

DCN  
0164DEL\_P1052

23-AUG-2013 14:51  
P:\Projects\5206D\Drawings\Frm Mike\REVISED UO PER MATT SIMONS 07-23-13\5206D.dwg UO6.PSH - Copy.dgn  
5/14/99



**UCC**

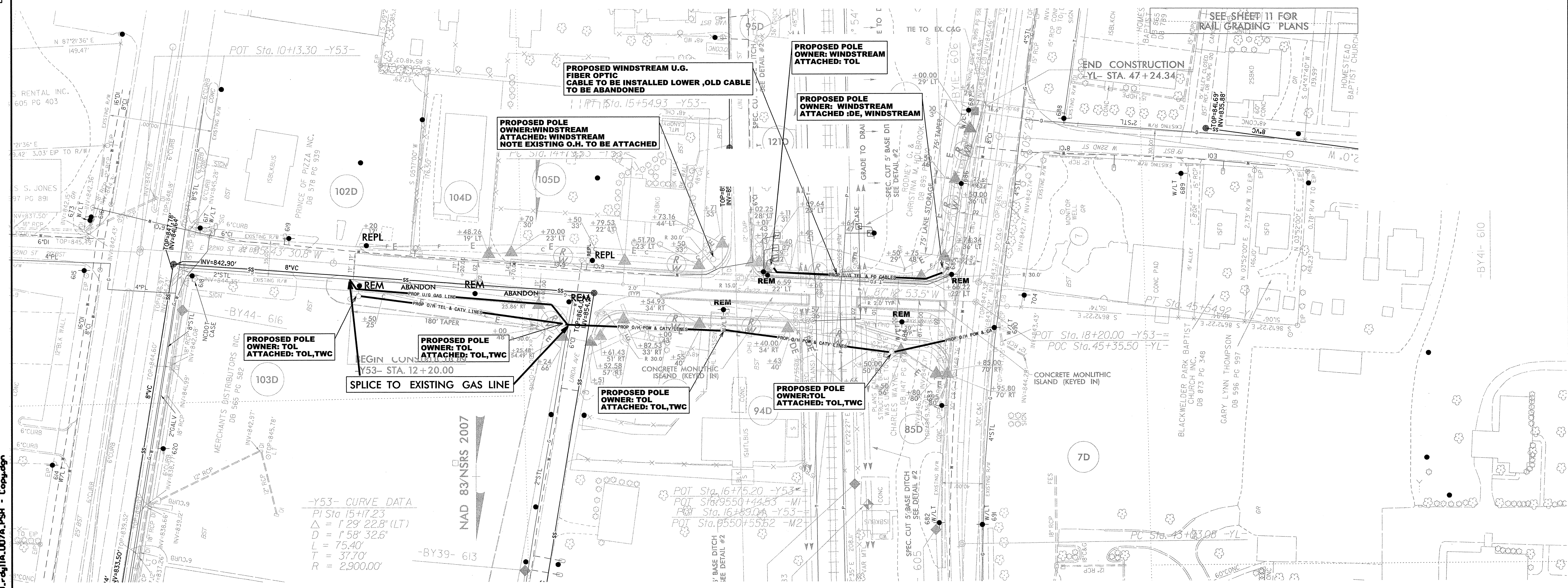
UTILITY COORDINATION CONSULTANTS  
P.O. BOX 450  
MINERAL SPRINGS, N.C. 28108  
(704) 844-8083

UTILITIES BY OTHERS

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

DCN  
0164DEL P10b2

5/14/99  
05-SEP-2013 06:41  
P-5206D-1.dwg  
05-SEP-2013 06:41  
U80 Drawings From Mike\VP-5206D\_UO.8-23-13\VP-5206D.dwg\11A\_U07A\_PSH - Copy.dgn



-Y53- CURVE DATA  
PI Sta 15+17.23  
Δ = 1° 29' 22.8" (LT)  
D = 158' 32.6"  
L = 75.40'  
T = 37.70'  
R = 2,900.00'

NAD 83 NSRS 2007

UCC

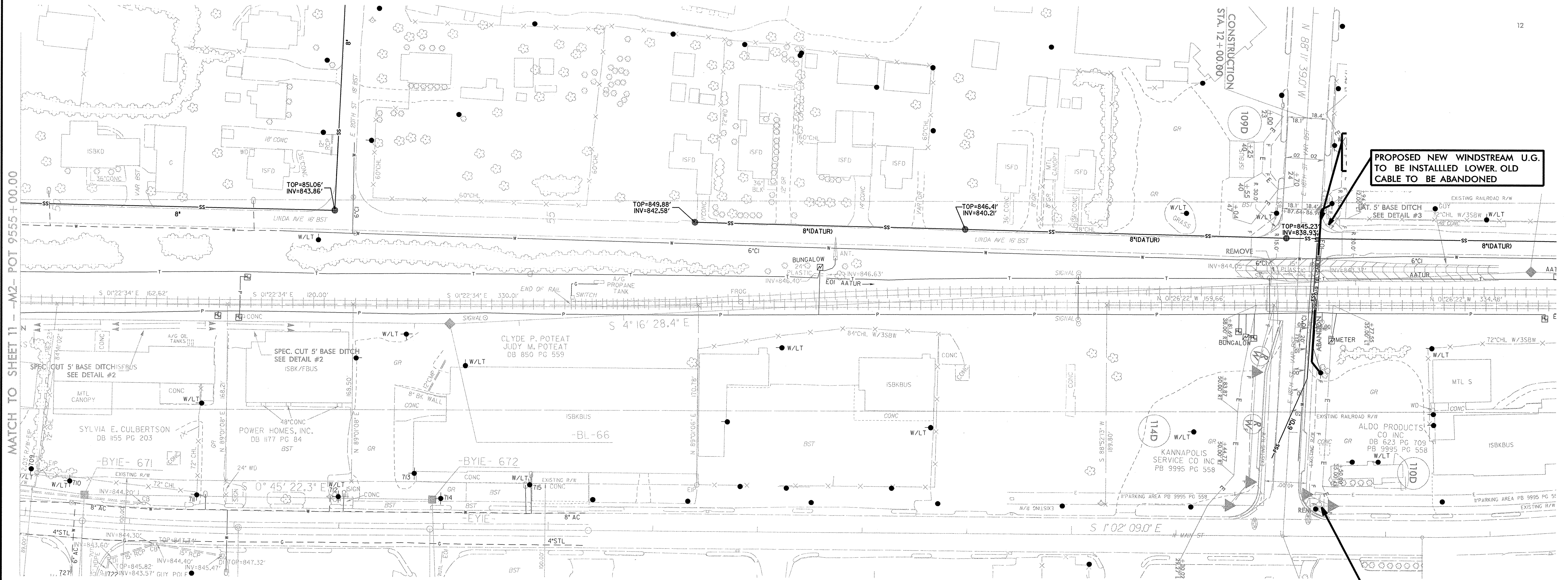
UTILITY COORDINATION CONSULTANTS  
P.O. BOX 450  
MINERAL SPRINGS, N.C. 28108  
(704) 844-9083



### UTILITIES BY OTHERS

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

DCN  
0164DEL\_P10b2  
5/14/99  
Project P-5206D - Linda Ave. from Mike's Revised UO per Matt Simons 07-23-13 P-5206D - 0712.U08.PSU.dgn  
23-AUG-2013 10:11 AM  
C:\Users\mike\Documents\Projects\5206D\Drawings\From Mike's Revised UO per Matt Simons 07-23-13 P-5206D - 0712.U08.PSU.dgn



PROPOSED NEW WINDSTREAM U.G.  
TO BE INSTALLED LOWER. OLD  
CABLE TO BE ABANDONED

PROPOSED POLE  
OWNER: WINDSTREAM  
ATTACHED: WINDSTREAM, DE  
NOTE: TO BE INSTALLED

**UCC**

UTILITY COORDINATION CONSULTANTS  
P.O. BOX 450  
MINERAL SPRINGS, N.C. 28108  
770.444.9883