

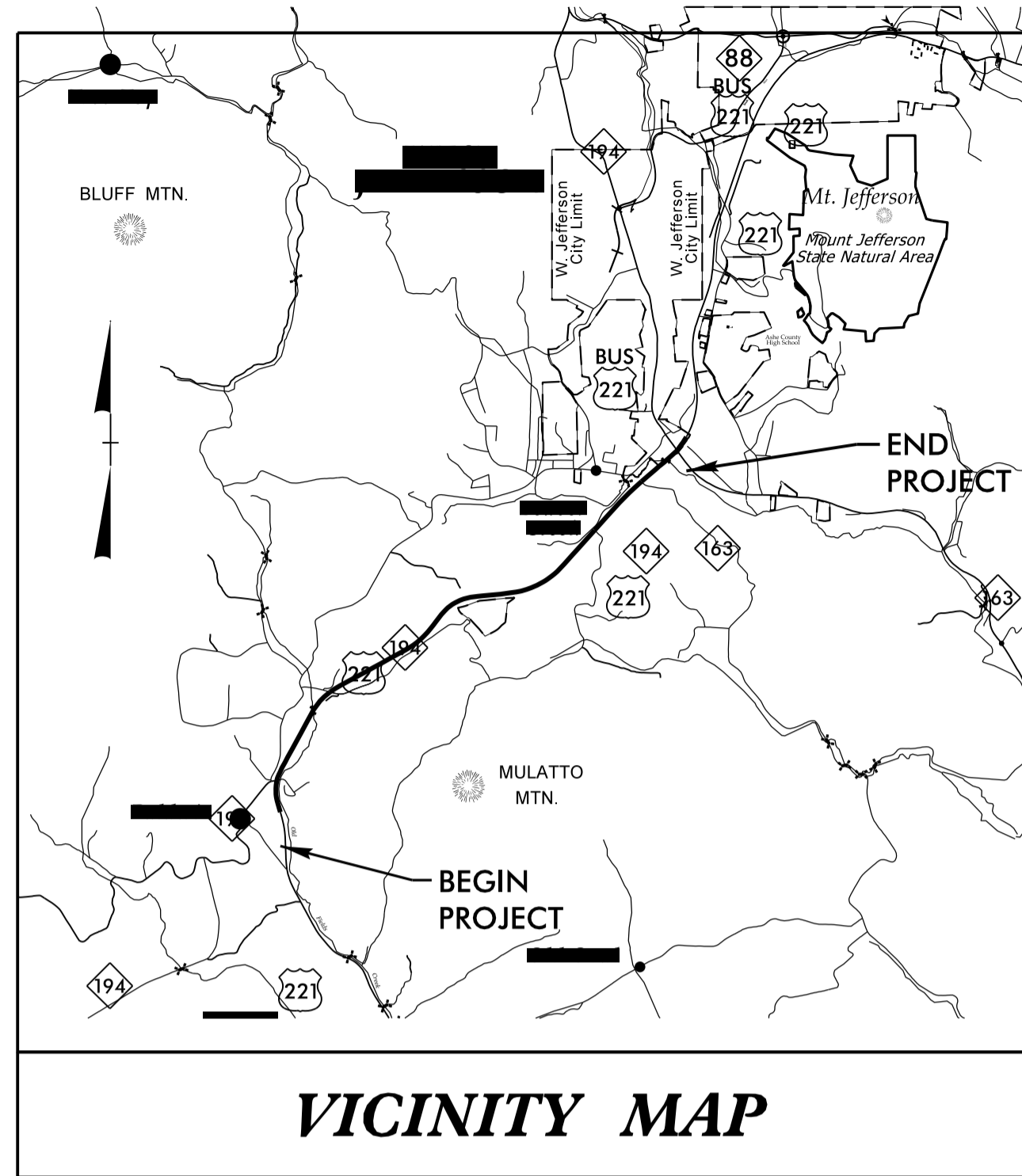
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

UTILITY CONSTRUCTION PLANS ASHE COUNTY

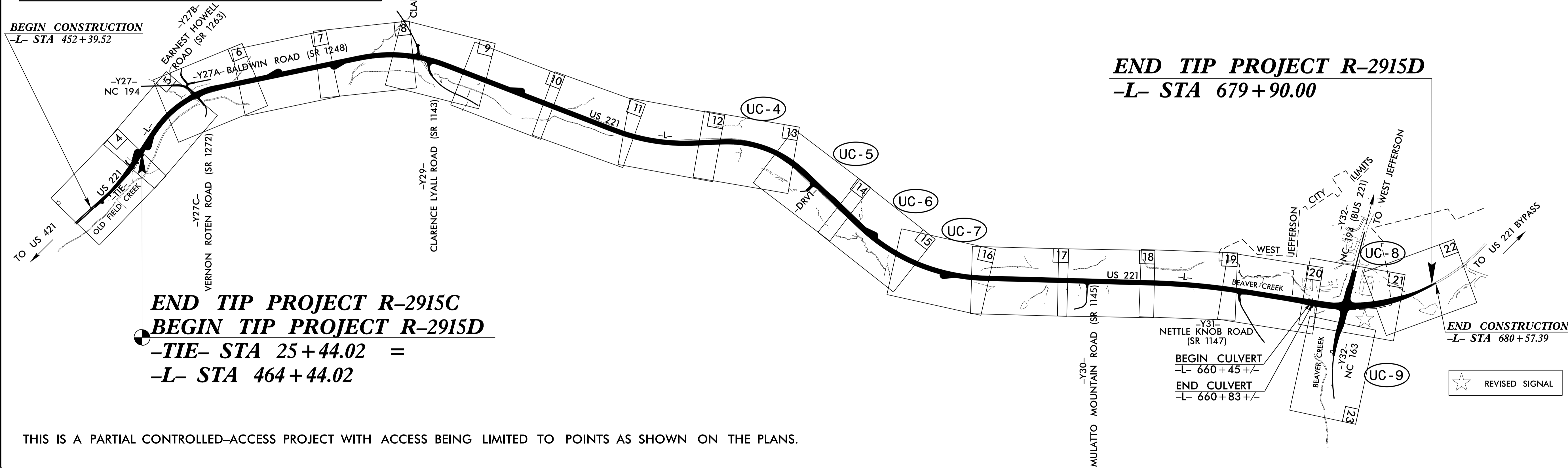
LOCATION: US 221 FROM SOUTH OF NC 194 TO US 221 BYPASS

TYPE OF WORK: WATER AND SEWER RELOCATION

TIP PROJECT: R-2915D



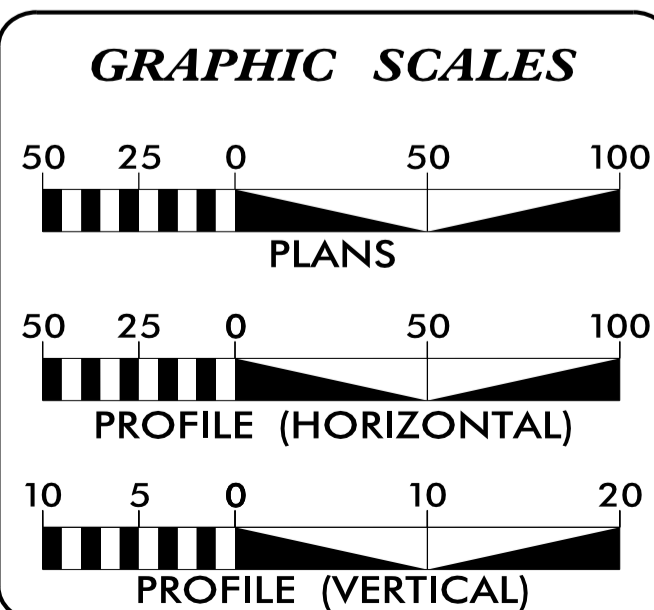
BEGIN CONSTRUCTION
-L- STA 452+39.52



END TIP PROJECT R-2915D
-L- STA 679+90.00

END TIP PROJECT R-2915C
BEGIN TIP PROJECT R-2915D
-TIE- STA 25+44.02 =
-L- STA 464+44.02

THIS IS A PARTIAL CONTROLLED-ACCESS PROJECT WITH ACCESS BEING LIMITED TO POINTS AS SHOWN ON THE PLANS.

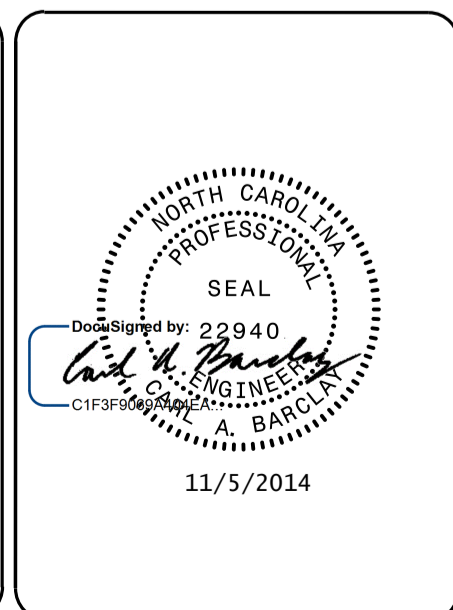


INDEX OF SHEETS

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UC-1	TITLE SHEET
UC-2	UTILITY SYMBOLOGY
UC-3	NOTES
UC-3A	DETAILS
UC-4 THRU UC-9	UTILITY CONSTRUCTION SHEETS
UC-10 THRU UC-12	PROFILE SHEETS

WATER AND SEWER OWNER ON PROJECT

(1) WATER - TOWN OF WEST JEFFERSON
(2) SANITARY SEWER - TOWN OF WEST JEFFERSON



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
Carl Barclay, P.E. UTILITIES SQUAD LEADER PROJECT ENGINEER
James E. Swinson UTILITIES PROJECT DESIGNER

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STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

UTILITIES PLAN SHEET SYMBOLS

PROPOSED WATER SYMBOLS

Water Line (Sized as Shown)	
11 1/4 Degree Bend	
22 1/2 Degree Bend	
45 Degree Bend	
90 Degree Bend	
Plug	
Tee	
Cross	
Reducer	
Gate Valve	
Butterfly Valve	
Tapping Valve	
Line Stop	
Line Stop with Bypass	
Blow Off	
Fire Hydrant	
Relocate Fire Hydrant	
Remove Fire Hydrant	REM FH
Water Meter	
Relocate Water Meter	
Remove Water Meter	REM WM
Water Pump Station	
RPZ Backflow Preventer	
DCV Backflow Preventer	
Relocate RPZ Backflow Preventer	
Relocate DCV Backflow Preventer	

PROPOSED SEWER SYMBOLS

Gravity Sewer Line (Sized as Shown)	
Force Main Sewer Line (Sized as Shown)	
Manhole (Sized per Note)	
Sewer Pump Station	

PROPOSED MISCELLANEOUS UTILITIES SYMBOLS

Power Pole	
Telephone Pole	
Joint Use Pole	
Telephone Pedestal	
Utility Line by Others (Type as Shown)	
Trenchless Installation	
Encasement by Open Cut	
Encasement	

Thrust Block	
Air Release Valve	
Utility Vault	
Concrete Pier	
Steel Pier	
Plan Note	
Pay Item Note	

NOTE
PAY ITEM

EXISTING UTILITIES SYMBOLS

Power Pole		*Underground Power Line	
Telephone Pole		*Underground Telephone Cable	
Joint Use Pole		*Underground Telephone Conduit	
Utility Pole		*Underground Fiber Optics Telephone Cable	
Utility Pole with Base		*Underground TV Cable	
H-Frame Pole		*Underground Fiber Optics TV Cable	
Power Transmission Line Tower		*Underground Gas Pipeline	
Water Manhole		Aboveground Gas Pipeline	
Power Manhole		*Underground Water Line	
Telephone Manhole		Aboveground Water Line	
Sanitary Sewer Manhole		*Underground Gravity Sanitary Sewer Line	
Hand Hole for Cable		Aboveground Gravity Sanitary Sewer Line	
Power Transformer		*Underground SS Forced Main Line	
Telephone Pedestal		Underground Unknown Utility Line	
CATV Pedestal		SUE Test Hole	
Gas Valve		Water Meter	
Gas Meter		Water Valve	
Located Miscellaneous Utility Object		Fire Hydrant	
Abandoned According to Utility Records	AATUR	Sanitary Sewer Cleanout	
End of Information	E.O.I.		

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

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REV: 2/1/2012

UTILITY CONSTRUCTION

PROJECT REFERENCE NO.	SHEET NO.
R-2915D	UC-3
DESIGNED BY: JES	
DRAWN BY: JES	
CHECKED BY: CAB	
APPROVED BY: CAB	
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 UTILITIES BELONG TO THE TOWN OF WEST JEFFERSON .

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

- 1520.01 SEWER CLEAN OUT
- 1525.06 PRECAST CONCRETE SANITARY SEWER MANHOLE WITH CAST-IN-PLACE BOTTOM

DESIGNED BY: JES

DRAWN BY: JES

CHECKED BY: CAB

APPROVED BY: CAB

REVISED:

NORTH CAROLINA
DEPARTMENT OF
TRANSPORTATION

UTILITIES ENGINEERING SEC.
PHONE: (919) 707-6690
FAX: (919) 250-4151

SHEET NO. UC-3A

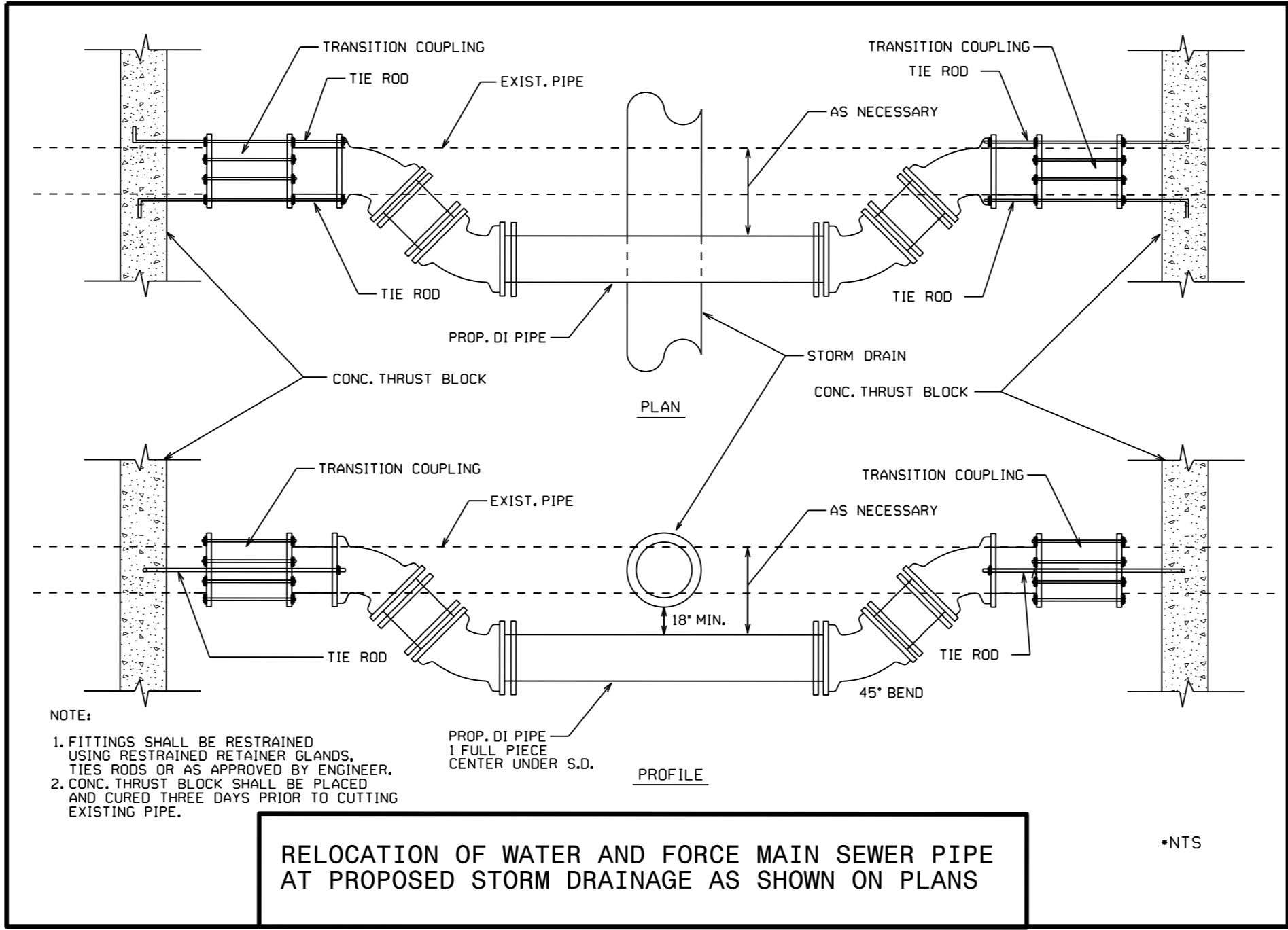
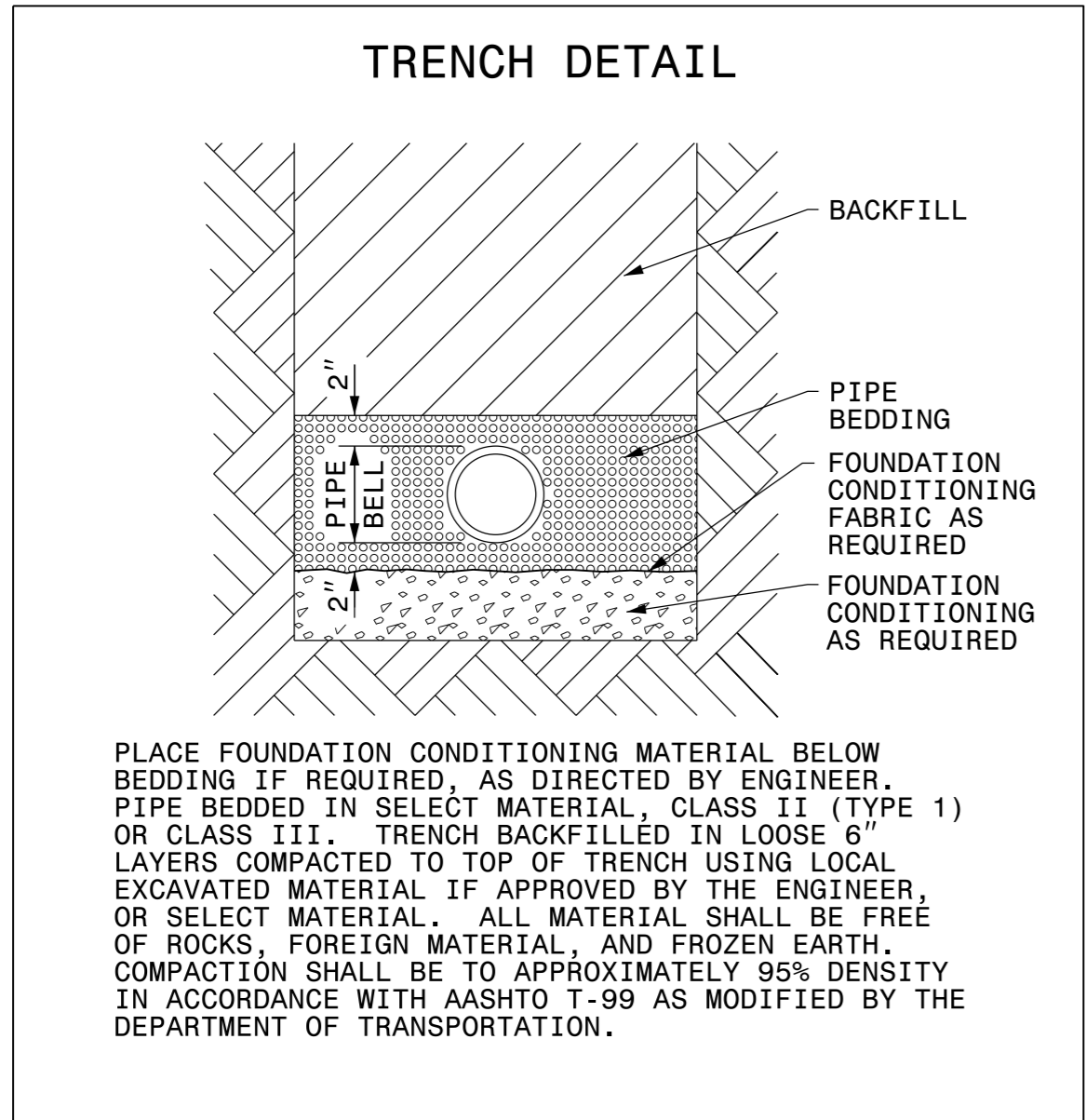
SEAL

Professional Engineer Seal for Carol A. Barclay, No. 22940, State of North Carolina.

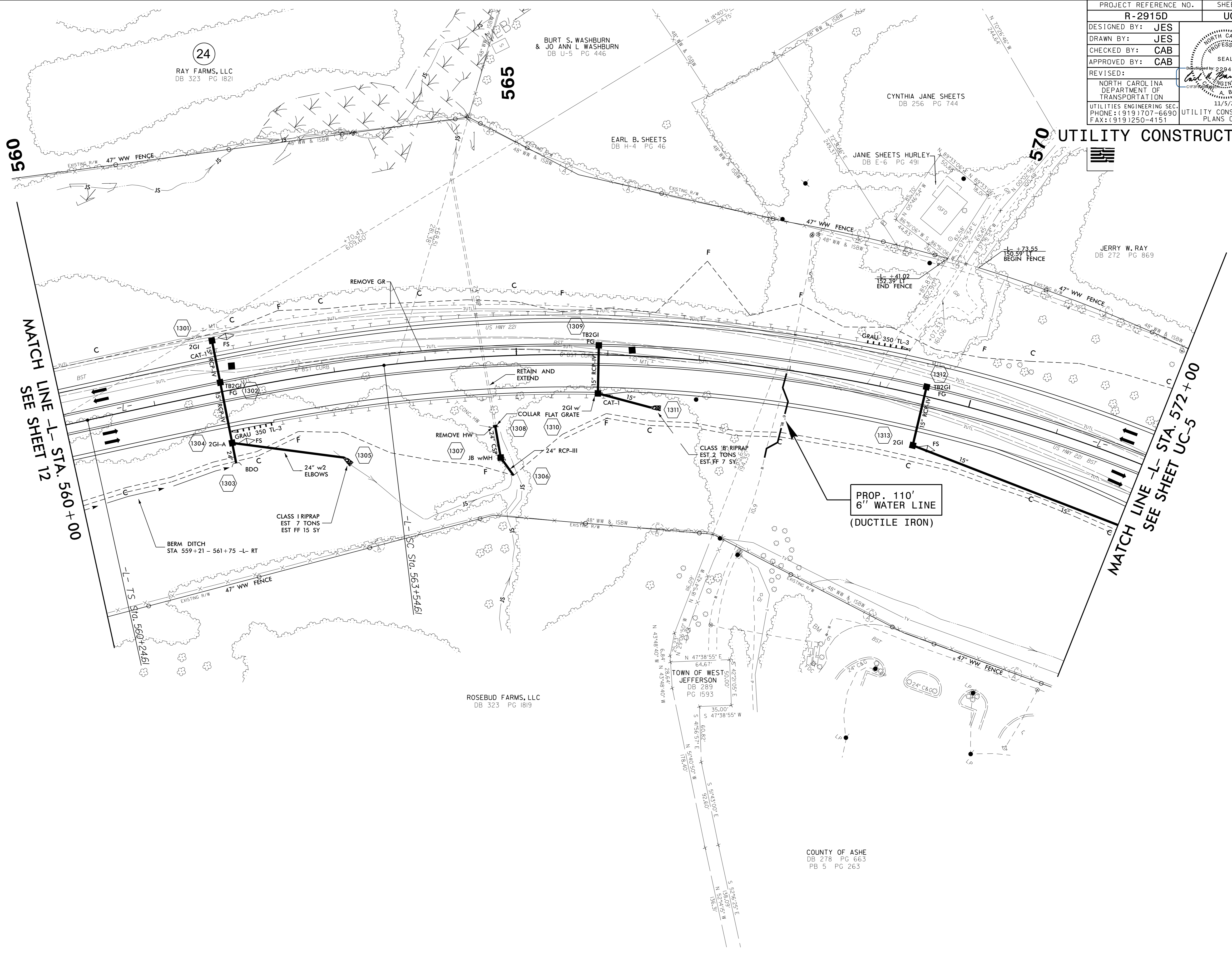
11/5/2014

UTILITY CONSTRUCTION
PLANS ONLY

PROJECT TYPICAL DETAILS



PROJECT REFERENCE NO.	SHEET NO.
R-2915D	UC-4
DESIGNED BY: JES	
DRAWN BY: JES	
CHECKED BY: CAB	
APPROVED BY: CAB	
REVISED:	NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151
UTILITY CONSTRUCTION PLANS ONLY	



MATCH LINE -L- STA. 560+00
SEE SHEET 12

MATCH LINE -L- STA. 572+00
SEE SHEET UC-5

PROP. 110'
6" WATER LINE
(DUCTILE IRON)

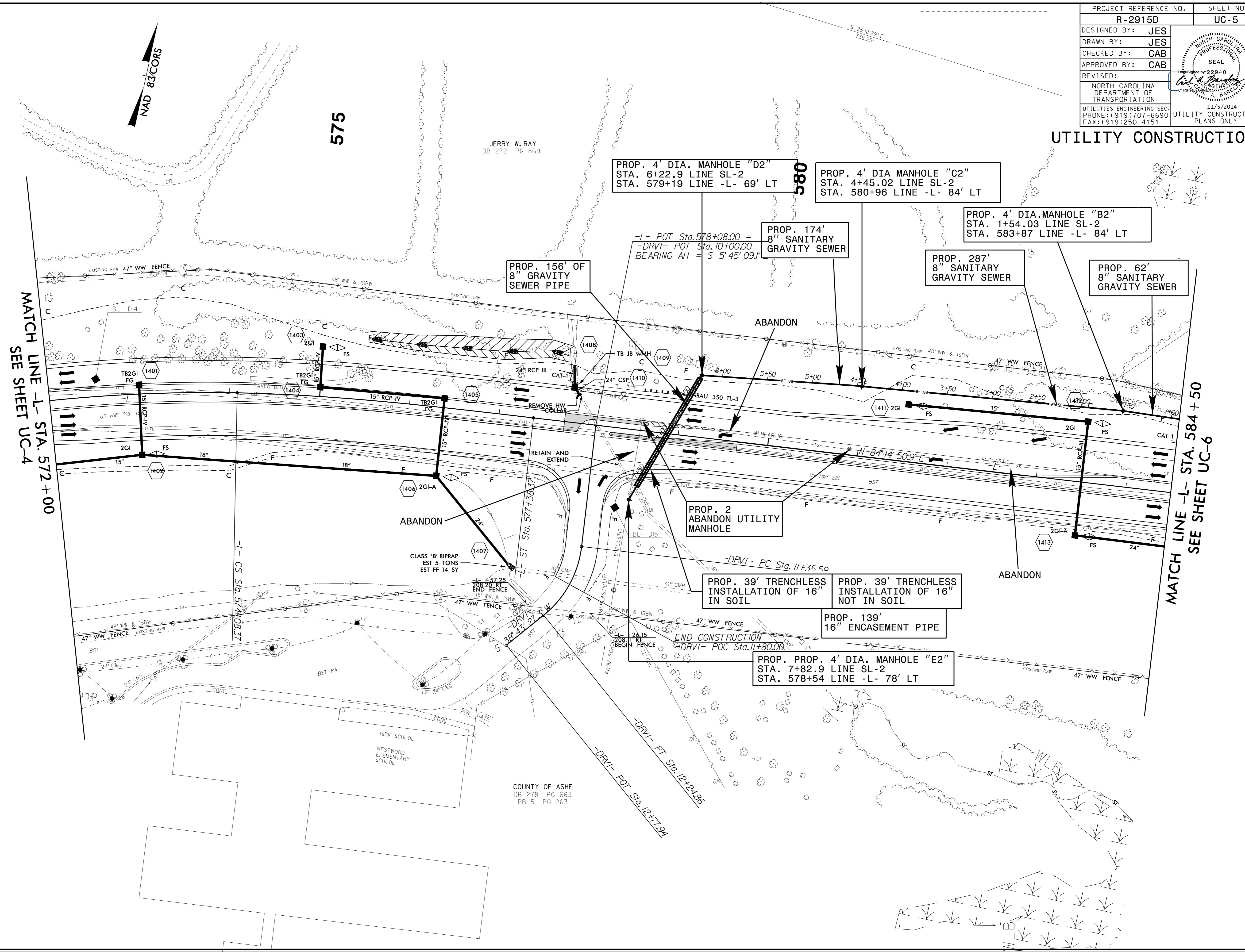
COUNTY OF ASHE
DB 278 PG 663
PB 5 PG 263

5/14/99

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PROJECT REFERENCE NO.	SHEET NO.
R-2915D	UC-5
DESIGNED BY: JES	
DRAWN BY: JES	
CHECKED BY: CAB	
APPROVED BY: CAB	
REVISED:	11/5/2014
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
UTILITY CONSTRUCTION PLANS ONLY	

UTILITY CONSTRUCTION



MATCH LINE -L- STA. 572+00
SEE SHEET UC-4

MATCH LINE -L- STA. 584+50
SEE SHEET UC-6

JERRY W. RAY
DB 272 PG 869

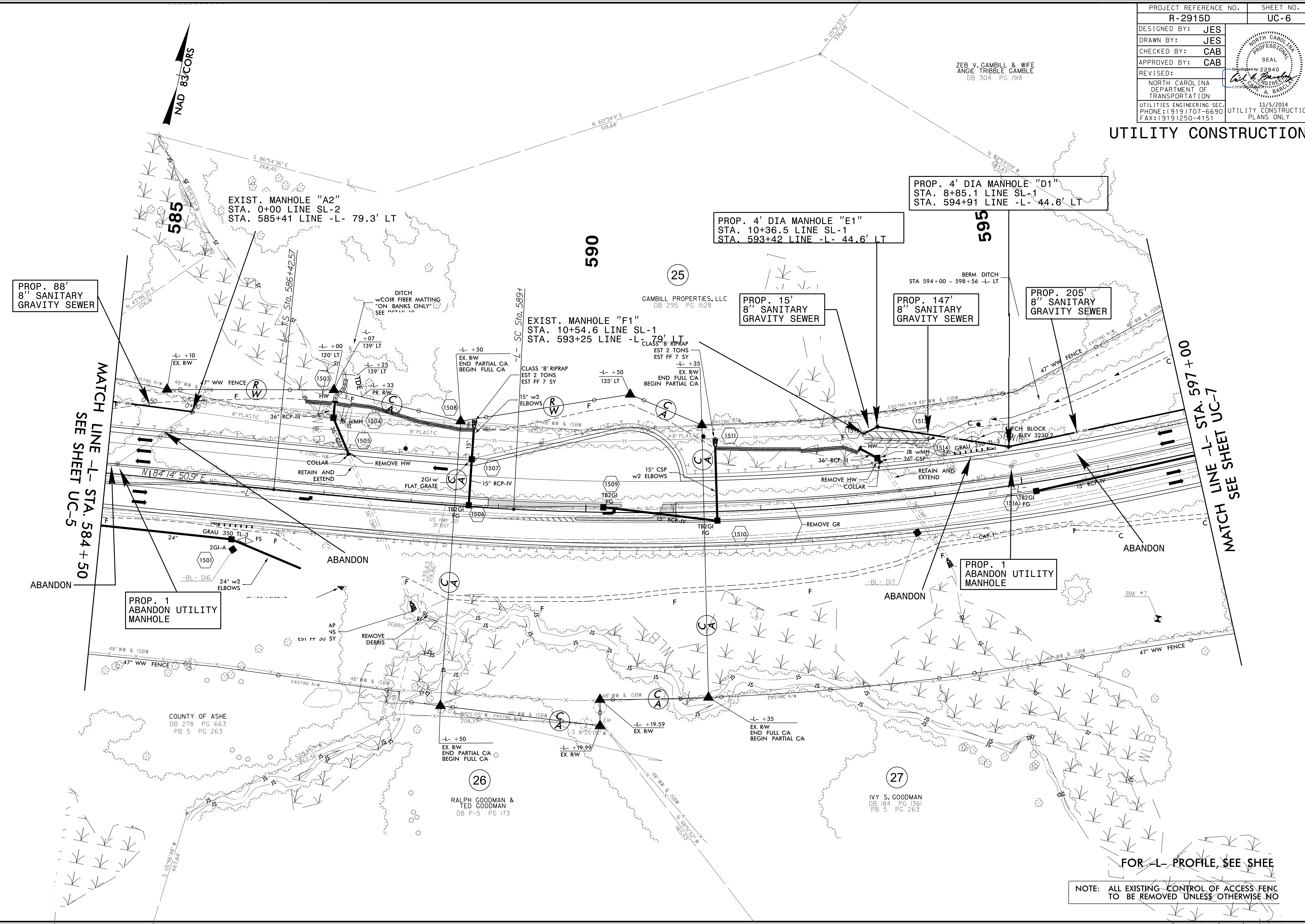
COUNTY OF ASHE
DB 278 PG 663
PB 5 PG 263

5/14/99

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PROJECT REFERENCE NO.	SHEET NO.
R-2915D	UC-6
DESIGNED BY: JES	
DRAWN BY: JES	
CHECKED BY: CAB	
APPROVED BY: CAB	
REVISED:	NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151
11/5/2014 UTILITY CONSTRUCTION PLANS ONLY	

UTILITY CONSTRUCTION



PROP. 88'
8" SANITARY
GRAVITY SEWER

EXIST. MANHOLE "A2"
STA. 0+00 LINE SL-2
STA. 585+41 LINE -L- 79.3' LT

EXIST. MANHOLE "F1"
STA. 10+54.6 LINE SL-1
STA. 593+25 LINE -L- 79' LT

PROP. 4' DIA MANHOLE "E1"
STA. 10+36.5 LINE SL-1
STA. 593+42 LINE -L- 44.6' LT

PROP. 4' DIA MANHOLE "D1"
STA. 8+85.1 LINE SL-1
STA. 594+91 LINE -L- 44.6' LT

PROP. 15'
8" SANITARY
GRAVITY SEWER

PROP. 147'
8" SANITARY
GRAVITY SEWER

PROP. 205'
8" SANITARY
GRAVITY SEWER

MATCH LINE -L- STA. 584 + 50
SEE SHEET UC-5

MATCH LINE -L- STA. 597 + 00
SEE SHEET UC-7

PROP. 1
ABANDON UTILITY
MANHOLE

PROP. 1
ABANDON UTILITY
MANHOLE

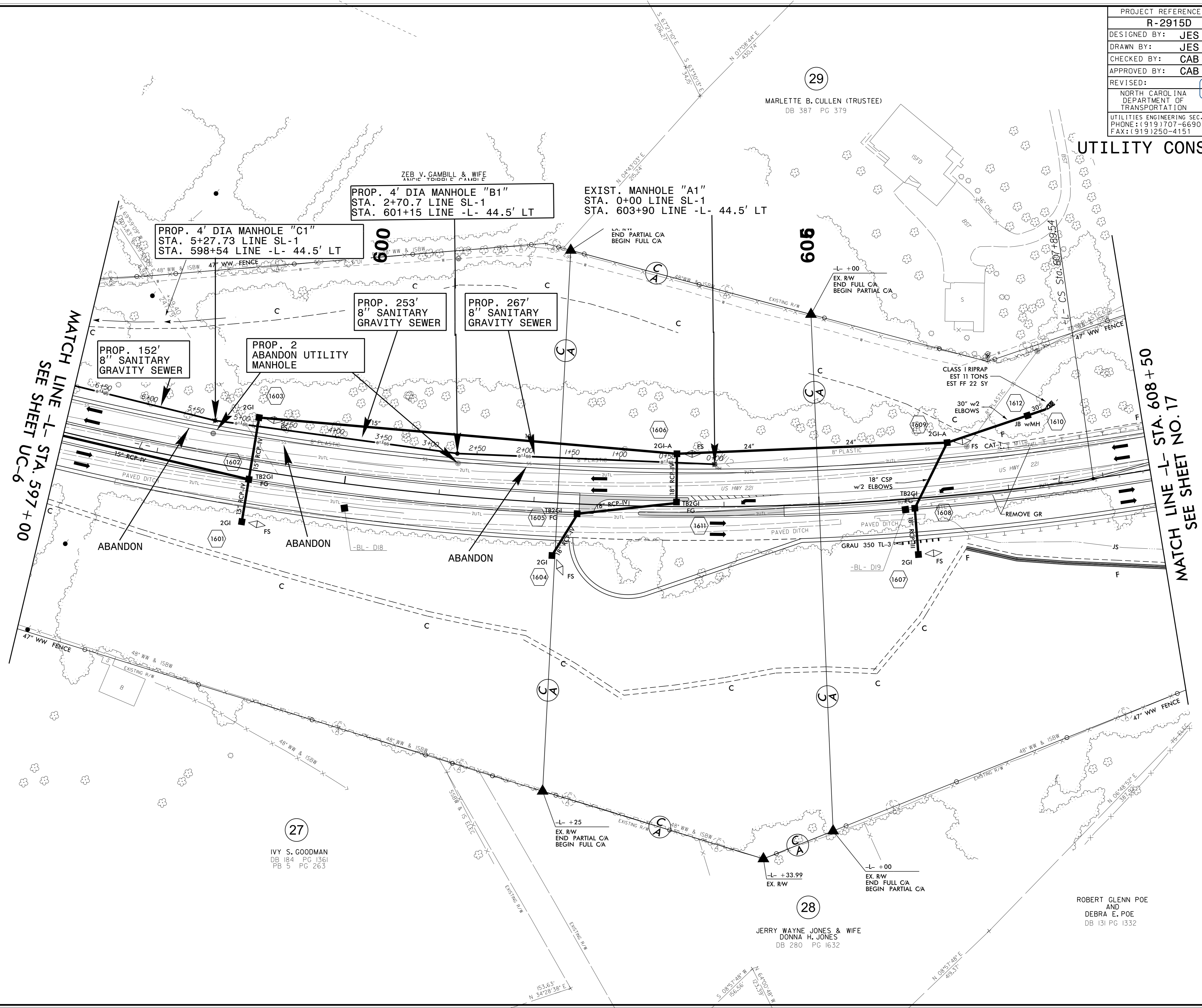
FOR -L- PROFILE, SEE SHEET

NOTE: ALL EXISTING CONTROL OF ACCESS FENCE TO BE REMOVED UNLESS OTHERWISE NOTED

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 PROJECT: R-2915D UC-6

PROJECT REFERENCE NO.	SHEET NO.
R-2915D	UC-7
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APPROVED BY: CAB	
REVISED:	11/5/2014
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
UTILITY CONSTRUCTION PLANS ONLY	

UTILITY CONSTRUCTION



MATCH LINE -L- STA. 597 + 00
SEE SHEET UC-6

MATCH LINE -L- STA. 608 + 50
SEE SHEET NO. 17

27
 IVY S. GOODMAN
 DB 184 PG 1361
 PB 5 PG 263

28
 JERRY WAYNE JONES & WIFE
 DONNA H. JONES
 DB 280 PG 1632

ROBERT GLENN POE
 AND
 DEBRA E. POE
 DB 131 PG 1332

5/14/99

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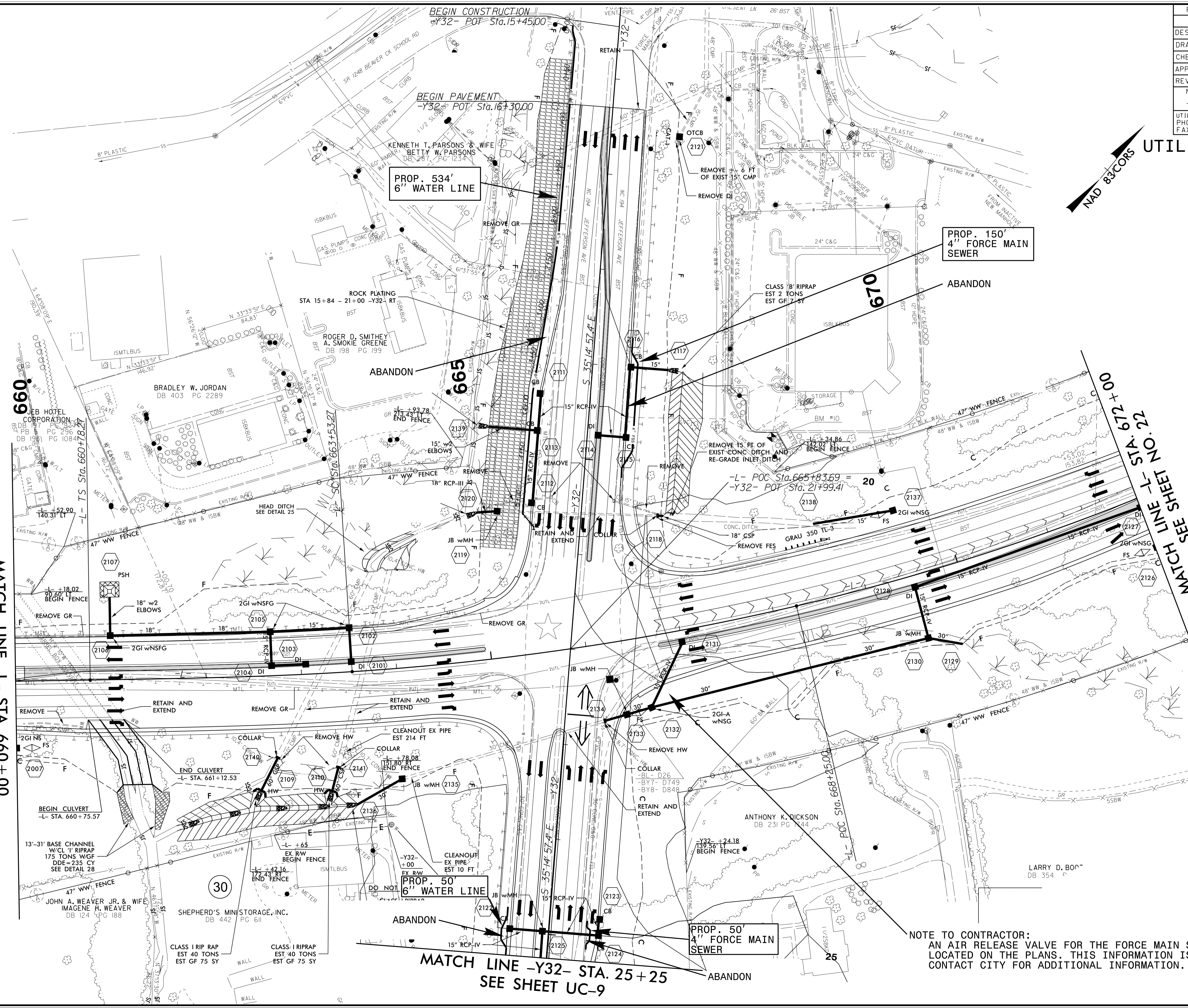
PROJECT REFERENCE NO.	SHEET NO.
R-2915D	UC-8
DESIGNED BY: JES	
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UTILITY CONSTRUCTION PLANS ONLY	

NAD 83 CORRS

MATCH LINE -L- STA. 660+00
SEE SHEET NO. 20

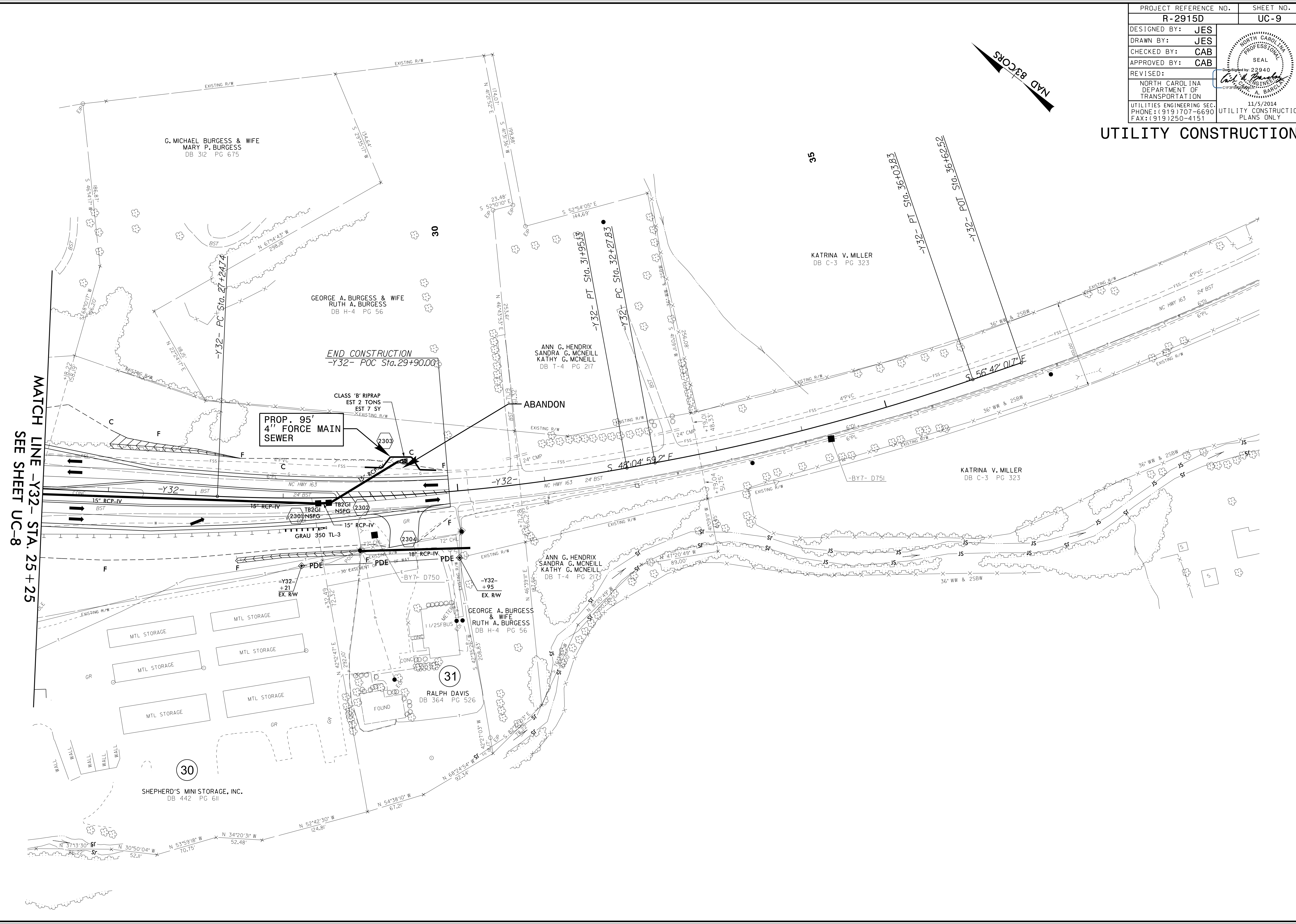
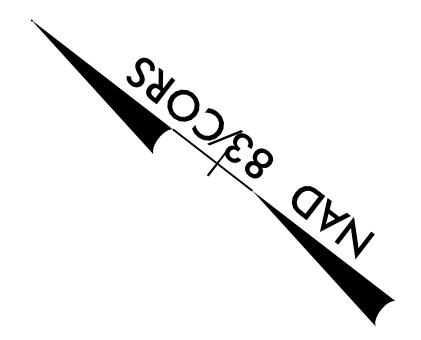
MATCH LINE -Y32- STA. 25+25
SEE SHEET UC-9

NOTE TO CONTRACTOR:
AN AIR RELEASE VALVE FOR THE FORCE MAIN SEWER IS NOT LOCATED ON THE PLANS. THIS INFORMATION IS BEING ACQUIRED. CONTACT CITY FOR ADDITIONAL INFORMATION.



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PROJECT REFERENCE NO.	SHEET NO.
R-2915D	UC-9
DESIGNED BY: JES	
DRAWN BY: JES	
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APPROVED BY: CAB	
REVISED:	NORTH CAROLINA DEPARTMENT OF TRANSPORTATION 11/5/2014 UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151
UTILITY CONSTRUCTION	



MATCH LINE -Y32- STA. 25+25
SEE SHEET UC-8

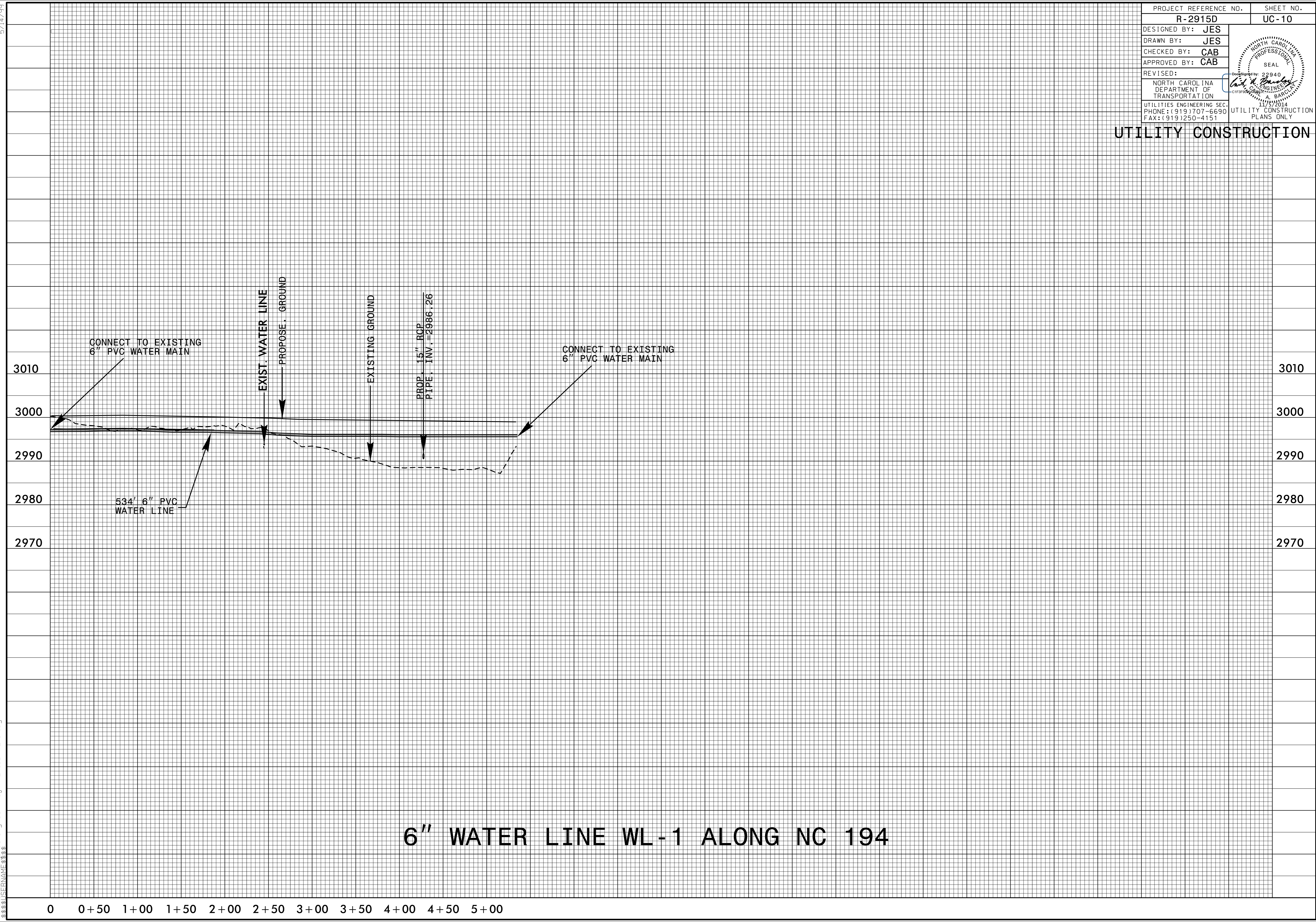
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R-2915D	UC-10
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11/5/2014 UTILITY CONSTRUCTION PLANS ONLY	

UTILITY CONSTRUCTION

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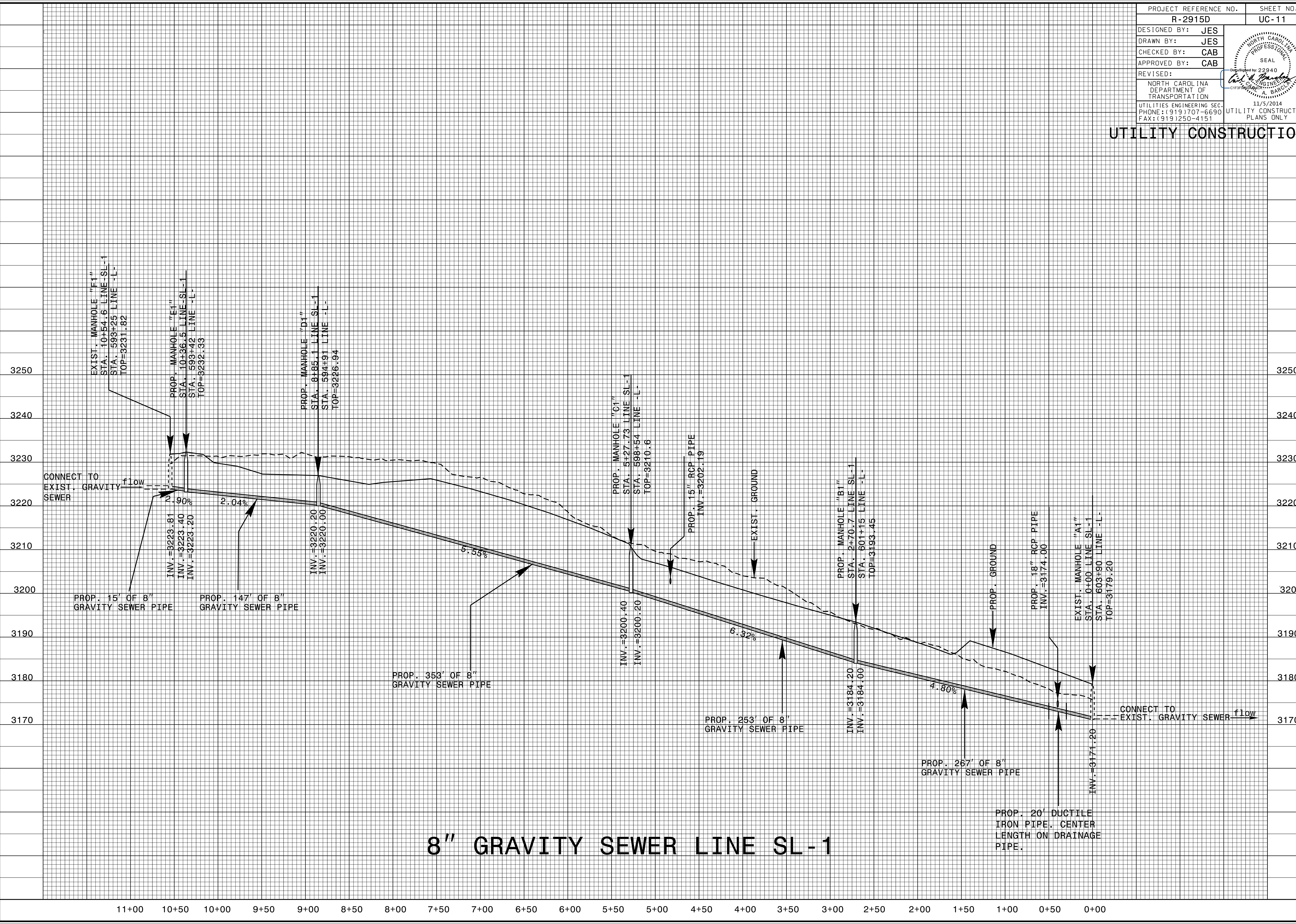


6" WATER LINE WL-1 ALONG NC 194

0 0+50 1+00 1+50 2+00 2+50 3+00 3+50 4+00 4+50 5+00

PROJECT REFERENCE NO.	SHEET NO.
R-2915D	UC-11
DESIGNED BY: JES	
DRAWN BY: JES	
CHECKED BY: CAB	
APPROVED BY: CAB	
REVISED:	11/5/2014
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
UTILITY CONSTRUCTION PLANS ONLY	

UTILITY CONSTRUCTION



8" GRAVITY SEWER LINE SL-1

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PROJECT REFERENCE NO.	SHEET NO.
R-2915D	UC-12
DESIGNED BY: JES	
DRAWN BY: JES	
CHECKED BY: CAB	
APPROVED BY: CAB	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
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