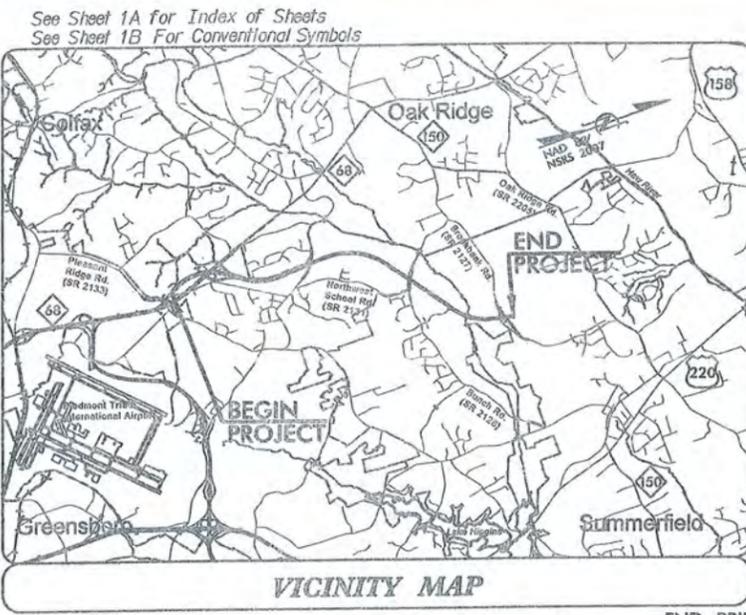


09/28/99

TIP PROJECT: R-2413A



STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

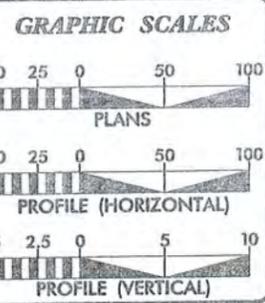
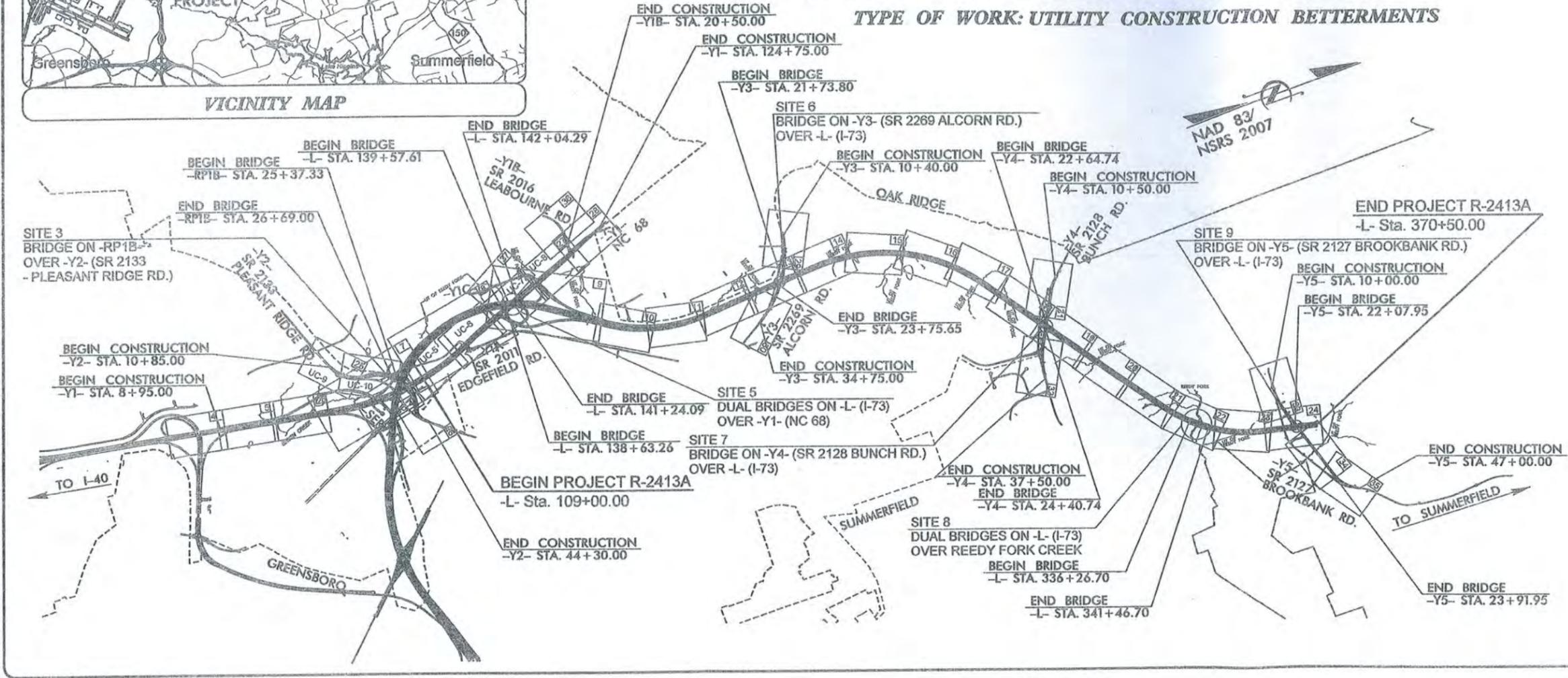
T.I.P. NO.	SHEET NO.
R-2413A	UC-1

# UTILITY CONSTRUCTION PLANS GUILFORD COUNTY

**EXHIBIT B**

**LOCATION: NC 68 FROM PLEASANT RIDGE ROAD (SR 2133) TO LEAUBOURNE ROAD (SR 2016), AND PLEASANT RIDGE ROAD (SR 2133) FROM BRIGHAM ROAD (SR 2012) TO NC 68**

**TYPE OF WORK: UTILITY CONSTRUCTION BETTERMENTS**



SHEET NO.	DESCRIPTION
UC-1	TITLE SHEET
UC-2	UTILITY SYMBOLOGY
UC-2A	EROSION CONTROL PLAN SYMBOLOGY
UC-3	NOTES
UC-3A	DETAILS
UC-4 THRU UC-10	UTILITY CONSTRUCTION PLAN SHEETS
UC-11 THRU UC-16	PROFILE SHEETS

**WATER AND SEWER OWNERS ON PROJECT**

WATER - CITY OF GREENSBORO

SEWER - CITY OF GREENSBORO

PREPARED IN THE OFFICE OF:

**DAVIS • MARTIN • POWELL**  
ENGINEERS & SURVEYORS

6415 OLD PLANK RD., HIGH POINT, NC 27265  
PHONE: (336) 883-4221 FAX: (336) 883-4453  
WWW.DMP-INC.COM LICENSE: F-4015

**Andrew P. Larrick, P.E.** UTILITIES PROJECT MANAGER  
**Andrew P. Larrick, P.E.** UTILITIES PROJECT ENGINEER  
**Andrew P. Larrick, P.E.** UTILITIES PROJECT DESIGNER



**SEAL**

**STATE OF NORTH CAROLINA**  
DEPARTMENT OF TRANSPORTATION

**DIVISION OF HIGHWAYS**  
UTILITIES UNIT  
UTILITIES ENGINEERING

1555 MAIL SERVICE CENTER  
RALEIGH, NC 27609-1555  
PHONE (919) 707-6590  
FAX (919) 250-4151

**Roger Worthington, P.E.** UTILITIES SECTION ENGINEER  
**N/A** UTILITIES SQUAD LEADER PROJECT ENGINEER  
**N/A** UTILITIES PROJECT DESIGNER

\*\*\*\*\*SYSTIME\*\*\*\*\*  
\*\*\*\*\*DUNCAN\*\*\*\*\*  
\*\*\*\*\*PULS\*\*\*\*\*  
\*\*\*\*\*BRUNAME\*\*\*\*\*  
\*\*\*\*\*9999\*\*\*\*\*

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**UTILITIES PLAN SHEET SYMBOLS**

**PROPOSED WATER SYMBOLS**

Water Line (Sized as Shown)	
11¼ Degree Bend	
22½ 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	
Telephone Pole	
Joint Use Pole	
Utility Pole	
Utility Pole with Base	
H-Frame Pole	
Power Transmission Line Tower	
Water Manhole	
Power Manhole	
Telephone Manhole	
Sanitary Sewer Manhole	
Hand Hole for Cable	
Power Transformer	
Telephone Pedestal	
CATV Pedestal	
Gas Valve	
Gas Meter	
Located Miscellaneous Utility Object	
Abandoned According to Utility Records	AATUR
End of Information	E.O.I.

*Underground Power Line	
*Underground Telephone Cable	
*Underground Telephone Conduit	
*Underground Fiber Optics Telephone Cable	
*Underground TV Cable	
*Underground Fiber Optics TV Cable	
*Underground Gas Pipeline	
Aboveground Gas Pipeline	
*Underground Water Line	
Aboveground Water Line	
*Underground Gravity Sanitary Sewer Line	
Aboveground Gravity Sanitary Sewer Line	
*Underground SS Forced Main Line	
Underground Unknown Utility Line	
SUE Test Hole	
Water Meter	
Water Valve	
Fire Hydrant	
Sanitary Sewer Cleanout	

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

REVISIONS

8/17/99

REV: 2/1/2012

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**EROSION & SEDIMENTATION CONTROL  
PLAN SHEET SYMBOL LEGEND**

8/17/99

REVISIONS

2012 STANDARD DRAWINGS			
1604.01	Railroad Erosion Control Detail	1632.01	Rock Inlet Sediment Trap Type A
1605.01	Temporary Silt Fence	1632.02	Rock Inlet Sediment Trap Type B
1606.01	Special Sediment Control Fence	1632.03	Rock Inlet Sediment Trap Type C
1607.01	Gravel Construction Entrance	1633.01	Temporary Rock Silt Check Type A
1622.01	Temporary Berms and Slope Drains	1633.02	Temporary Rock Silt Check Type B
1630.01	Riser Basin	1634.01	Temporary Rock Sediment Dam Type A
1630.02	Silt Basin Type B	1634.02	Temporary Rock Sediment Dam Type B
1630.03	Temporary Silt Ditch	1635.01	Rock Pipe Inlet Sediment Trap Type A
1630.04	Stilling Basin	1635.02	Rock Pipe Inlet Sediment Trap Type B
1630.05	Temporary Diversion	1649.01	Coir Fiber Baffle
1630.06	Special Stilling Basin	1645.01	Temporary Stream Crossing
1631.01	Matting Installation		

Std. #	Description	Symbol
1605.01	Temporary Silt Fence	
1606.01	Special Sediment Control Fence	
1622.01	Temporary Berms and Slope Drains	
1630.02	Silt Basin Type B	
1630.03	Temporary Silt Ditch	
1630.05	Temporary Diversion	
1630.06	Special Stilling Basin	
1632.03	Rock Inlet Sediment Trap Type C	
1633.01	Temporary Rock Silt Check Type-A	
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)	
1633.02	Temporary Rock Silt Check Type-B	
	Wattle	
	Wattle with Polyacrylamide (PAM)	
1634.02	Temporary Rock Sediment Dam Type-B	
1635.01	Rock Pipe Inlet Sediment Trap Type-A	

**NOTE:**  
THESE PLANS SHOW THE PROPOSED EROSION CONTROL DEVICES TO BE INSTALLED AS PART OF THE I-5110 & R-2413A ROADWAY PROJECTS, AND THE SUPPLEMENTAL EROSION CONTROL DEVICES TO BE INSTALLED AS PART OF THE CITY OF GREENSBORO WATER LINE DETOURMENTS THAT WILL BE INSTALLED IN CONJUNCTION WITH THE ROADWAY PROJECTS.

REVISIONS

PROJECT REFERENCE NO. R-2413A	SHEET NO. UC-3
DESIGNED BY: DMP	
DRAWN BY: DMP	
CHECKED BY: DMP	
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

## 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 UTILITIES BELONG TO THE CITY OF GREENSBORO.
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 OPPORTUNITY FOR INSPECTION OF CONSTRUCTION AND TESTING.

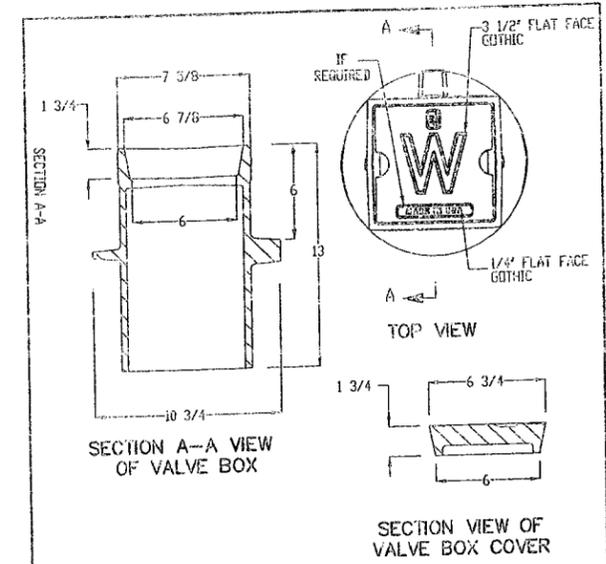
6. THE PLANS DEPICT THE BEST AVAILABLE INFORMATION FOR THE LOCATION, SIZE, AND TYPE OF MATERIAL FOR ALL EXISTING UTILITIES. MAKE INVESTIGATIONS FOR DETERMINING THE EXACT LOCATION, SIZE, AND TYPE MATERIAL OF THE EXISTING FACILITIES AS NECESSARY FOR THE CONSTRUCTION OF THE PROPOSED UTILITIES AND FOR AVOIDING 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.

## PROJECT SPECIFIC NOTES:

1. PIPE AND FITTINGS FOR PROPOSED WATER LINES 3" THRU 12" SHALL BE DUCTILE IRON, PC 350.
2. PIPE AND FITTINGS FOR PROPOSED WATER LINES 16" AND LARGER SHALL BE DUCTILE IRON, PC 250.
3. WATER LINE VALVES SHALL BE RESILIENT-SEAT GATE VALVES CONFORMING TO ANSI/AWWA C509, RATED FOR 200 PSI MINIMUM WORKING PRESSURE.

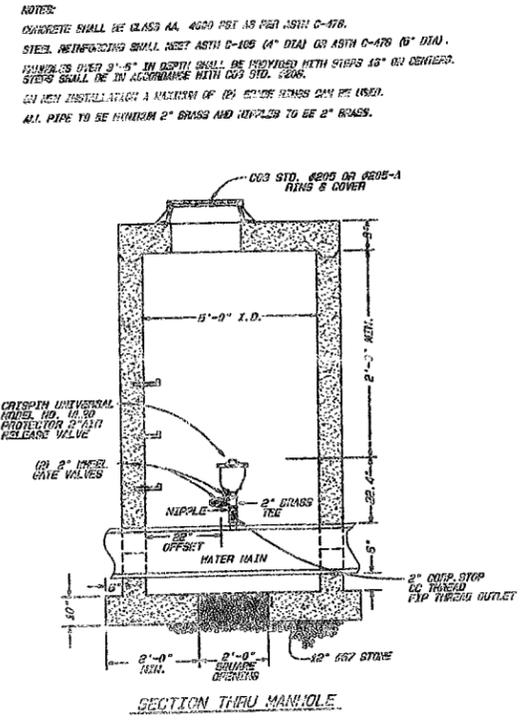
## LIST OF STANDARD DRAWINGS

- 1515.01 WATER METER
- 1515.02 FIRE HYDRANT

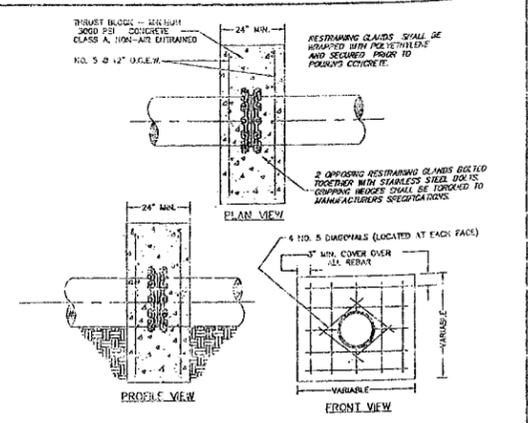


- NOTES:  
 1. VALVE BOX EXTENSION SHALL BE EITHER 6" DIA. SOIL PIPE OR SCH. 40 PVC PIPE.  
 2. EXTENSION TO BE ONE SOLID PIECE OF PIPE UNLESS SHOWN OTHERWISE. DEPTH IS GREATER THAN STANDARD LENGTH OF PIPE. A BELL OR COUPLING SHALL BE UTILIZED AT THE TOP OF VALVE CONNECTION (SEE COG STD. #101).  
 3. LETTER HEIGHT 3/16".  
 4. COUNTERSINK LETTER 3/16".  
 5. TO BE USED IN PAVED OR NON-PAVED AREAS.  
 6. ALL CASTINGS SHALL MEET THE REQUIREMENTS OF AASHTO M200.  
 7. DUE TO VARIATIONS IN CASTINGS OF DIFFERENT MANUFACTURERS, DIMENSIONS SHALL BE WITHIN REASONABLE TOLERANCES AS PER APPROVED BY GREENSBORO WATER RESOURCES DEPARTMENT AND/OR FIELD INSPECTOR PRIOR TO INSTALLATION.  
 8. VALVE BOX MAY BE REQUIRED TO BE "MADE IN U.S.A." IF FEDERAL FUNDS ARE INVOLVED.

CITY OF GREENSBORO  
 WATER VALVE BOX AND EXTENSION  
 STD. NO. 102  
 REV. 03-93 03-12 06-02 12-12 09-10 03-15



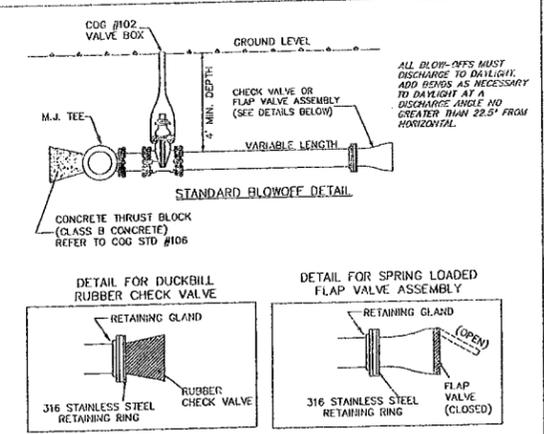
CITY OF GREENSBORO  
 STANDARD AIR RELIEF VALVE WITH ASSEMBLY AND MANHOLE FOR WATER LINES  
 STD. NO. 116  
 REV. 06-93 08-95 08-95 08-95



- NOTES:  
 1. SEE CITY OF GREENSBORO - WATER LINE AND SEWER LINE STANDARD CONSTRUCTION SPECIFICATIONS, SUB-ARTICLE 3.02 & 3.03 FOR (MINOR AND MAJOR) AND (TRENCH STABILIZATION) REQUIREMENTS.  
 2. THRUST BLOCK SHALL BE ORIENTED APPROPRIATELY CENTER OF PIPE JOINT.  
 3. "SPALL" A WELDED COLLAR INSTALLED BY PIPE MANUFACTURER MAY BE USED IN LIEU OF RESTRAINING GLANDS. ALL OTHER DESIGN REQUIREMENTS SHALL APPLY AS SHOWN.  
 4. FOR PIPES LARGER THAN 12" DIAMETER, THE DEADMAN THRUST RESTRAINT WITH MASS WEIGHT MUST BE DESIGNED AND SEALED BY A P.E. PROFESSIONAL ENGINEER.  
 5. ANY PROPOSED MODIFICATIONS TO THIS STANDARD PASTED ON THE FIELD CONDITIONS MUST BE PRE-APPROVED BY THE CITY OF GREENSBORO FIELD INSPECTOR AND/OR THE ENGINEER OF RECORD.  
 6. QUANTITIES SHOWN BELOW ARE TO THE NEAREST QUARTER TON AND ARE BASED ON USDOH 1008 TEST REQUIREMENTS OF THE TEST PRESSURES SHOWN.

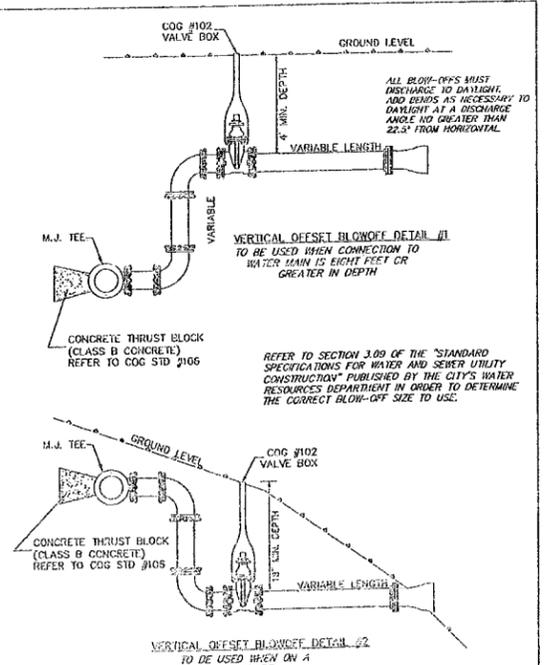
PIPE DIAMETER	150 PSI TEST PRESS.	300 PSI TEST PRESS.	250 PSI TEST PRESS.
6"	1.00	1.50	1.75
8"	2.00	2.50	3.25
10"	3.00	4.00	5.00
12"	4.25	5.50	7.00

CITY OF GREENSBORO  
 DEADMAN THRUST RESTRAINT WITH MASS WEIGHT BLOCKING FOR DUCTILE IRON PIPE  
 STD. NO. 118  
 REV. 06/13

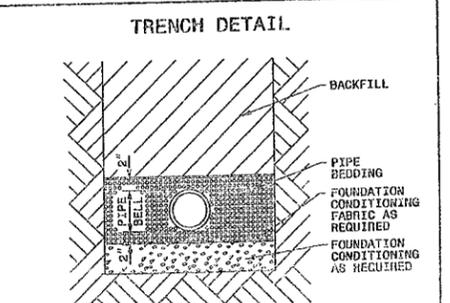


- GENERAL NOTES:  
 1. ALL MECHANICAL JOINTS SHALL BE RESTRAINING GLANDS, TORQUED AS PER MANUFACTURERS SPECIFICATIONS.  
 2. ADDITIONAL BENDS MAY BE REQUIRED TO CONFORM TO EXISTING TERRAIN, OR AS DIRECTED BY THE FIELD ENGINEER.  
 3. BLOW-OFF DISCHARGE SHALL CONFORM TO THE LATEST EDITION OF THE STORM DRAINAGE DESIGN MANUAL FOR RFP-RAP ENERGY DISPATGOR DESIGN AND AS DIRECTED BY THE FIELD ENGINEER.  
 4. ALL MATERIALS SHALL CONFORM TO THE LATEST EDITION OF THE CITY OF GREENSBORO WATER LINE AND SEWER LINE STANDARD CONSTRUCTION SPECIFICATIONS.  
 5. ANY PROPOSED MODIFICATIONS TO THIS STANDARD BASED ON THE FIELD CONDITIONS MUST BE PRE-APPROVED BY THE CITY OF GREENSBORO FIELD INSPECTOR AND/OR THE ENGINEER OF RECORD.  
 6. ALL BLOW-OFFS MUST DISCHARGE TO DAYLIGHT. ADD BENDS AS NECESSARY TO DAYLIGHT AT A DISCHARGE ANGLE NO GREATER THAN 22.5° FROM HORIZONTAL.  
 7. REFER TO SECTION 3.09 OF THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER UTILITY CONSTRUCTION" PUBLISHED BY THE CITY'S WATER RESOURCES DEPARTMENT IN ORDER TO DETERMINE THE CORRECT BLOW-OFF SIZE TO USE.

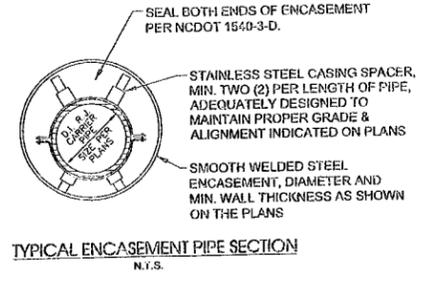
CITY OF GREENSBORO  
 BLOW-OFF DETAIL (4", 6" & 8")  
 STD. NO. 119  
 REV. 06/13



CITY OF GREENSBORO  
 BLOW-OFF DETAIL (4", 6" & 8")  
 STD. NO. 119  
 REV. 06/13



PLACE FOUNDATION CONDITIONING MATERIAL BELOW BEDDING IF REQUIRED, AS DIRECTED BY ENGINEER.  
 PIPE BEDDED IN SELECT MATERIAL, CLASS II (TYPE 1) OR CLASS III. TRENCH BACKFILLED IN LOOSE 2" LAYERS COMPACTED TO TOP OF TRENCH USING LOCAL EXCAVATED MATERIAL IF APPROVED BY THE ENGINEER, OR SELECT MATERIAL. ALL MATERIAL SHALL BE FREE OF ROCKS, FOREIGN MATERIAL, AND FROZEN EARTH.  
 COMPACTED TO APPROXIMATELY 95% DENSITY IN ACCORDANCE WITH AASHTO T-99 AS MODIFIED BY THE DEPARTMENT OF TRANSPORTATION.

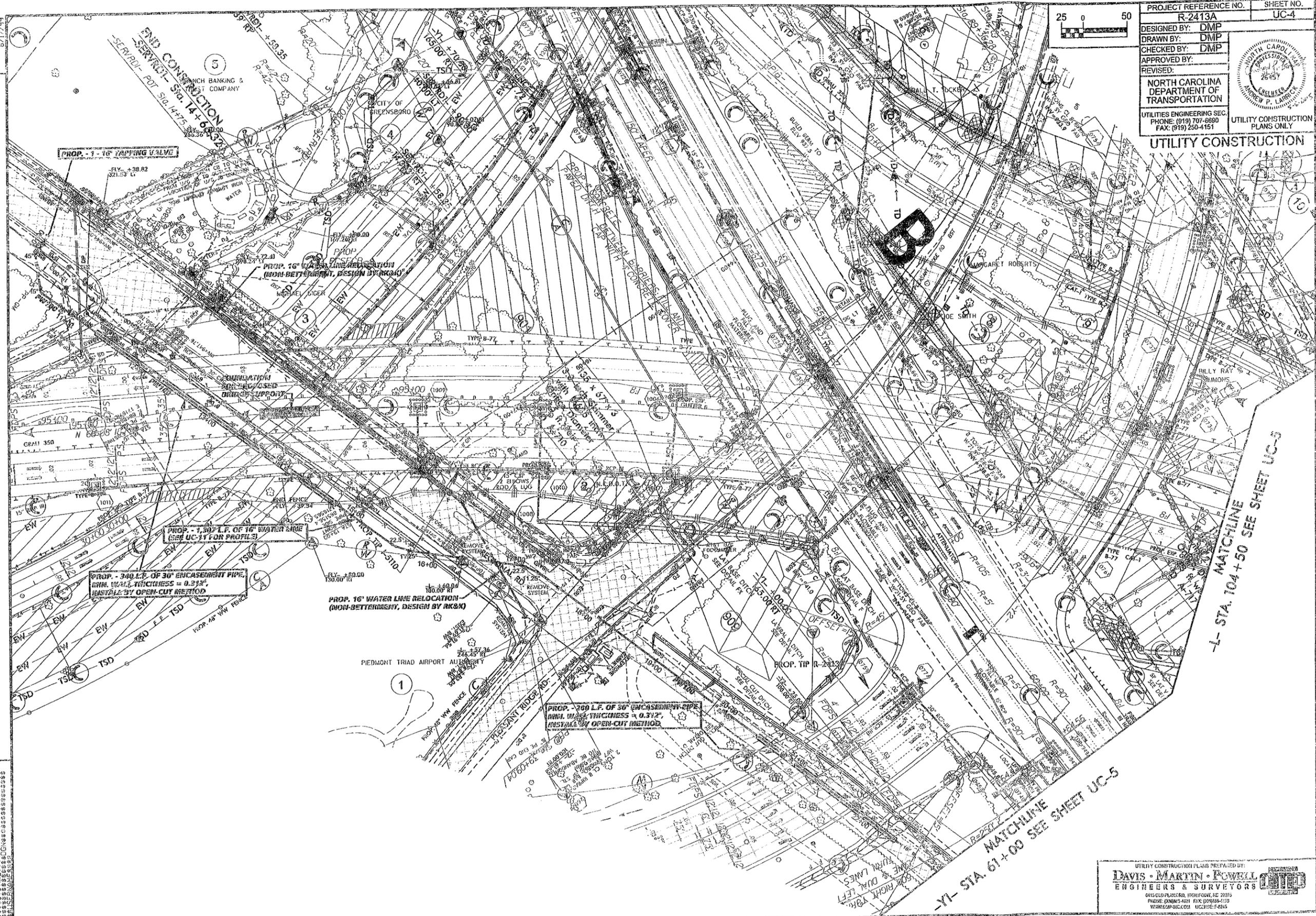
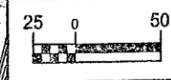


MAXIMUM TRENCH WIDTH AT TOP OF PIPE

NOMINAL PIPE SIZE (INCHES)	TRENCH WIDTH (INCHES)	NOMINAL PIPE SIZE (INCHES)	TRENCH WIDTH (INCHES)
4	28	20	44
6	30	24	48
8	32	30	54
10	34	36	60
12	36	42	66
14	38	48	72
16	40	54	78
18	42		

UTILITY CONSTRUCTION PLANS PREPARED BY:  
 DAVIS • MARTIN • FOWELL  
 ENGINEERS & SURVEYORS  
 615 COLLEMAN BLVD., SUITE 100, NC 27255  
 PHONE: (919) 487-4821 FAX: (919) 487-4825  
 WWW.DMFSG.COM LICENSE: P-0215

PROJECT REFERENCE NO.	SHEET NO.
R-2413A	UC-4
DESIGNED BY: DMP	
DRAWN BY: DMP	
CHECKED BY: DMP	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-8880 FAX: (919) 250-4151	
UTILITY CONSTRUCTION PLANS ONLY	



REVISIONS

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UTILITY CONSTRUCTION PLANS PREPARED BY:  
**DAVIS - MARTIN - POWELL**  
 ENGINEERS & SURVEYORS

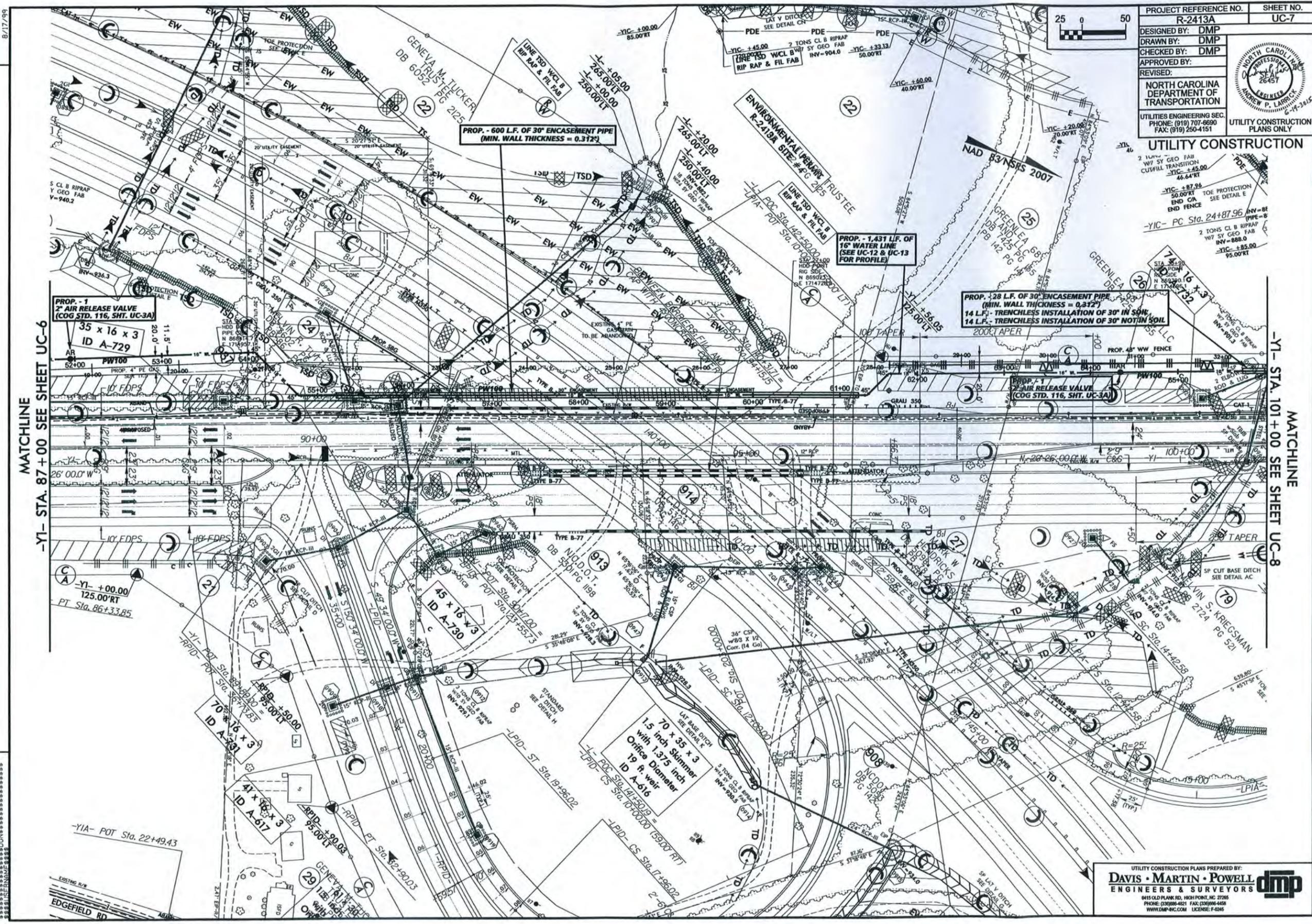
6415 OLD PLANK RD., 15TH FLOOR, NC 27695  
 PHONE: (919) 433-4211 FAX: (919) 433-4210  
 WWW.DMP-INC.COM LIC# 050615-0015





PROJECT REFERENCE NO.	SHEET NO.
R-2413A	UC-7
DESIGNED BY: DMP	
DRAWN BY: DMP	
CHECKED BY: DMP	
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**



MATCHLINE  
-Y1- STA. 87 + 00 SEE SHEET UC-6

MATCHLINE  
-Y1- STA. 101 + 00 SEE SHEET UC-8

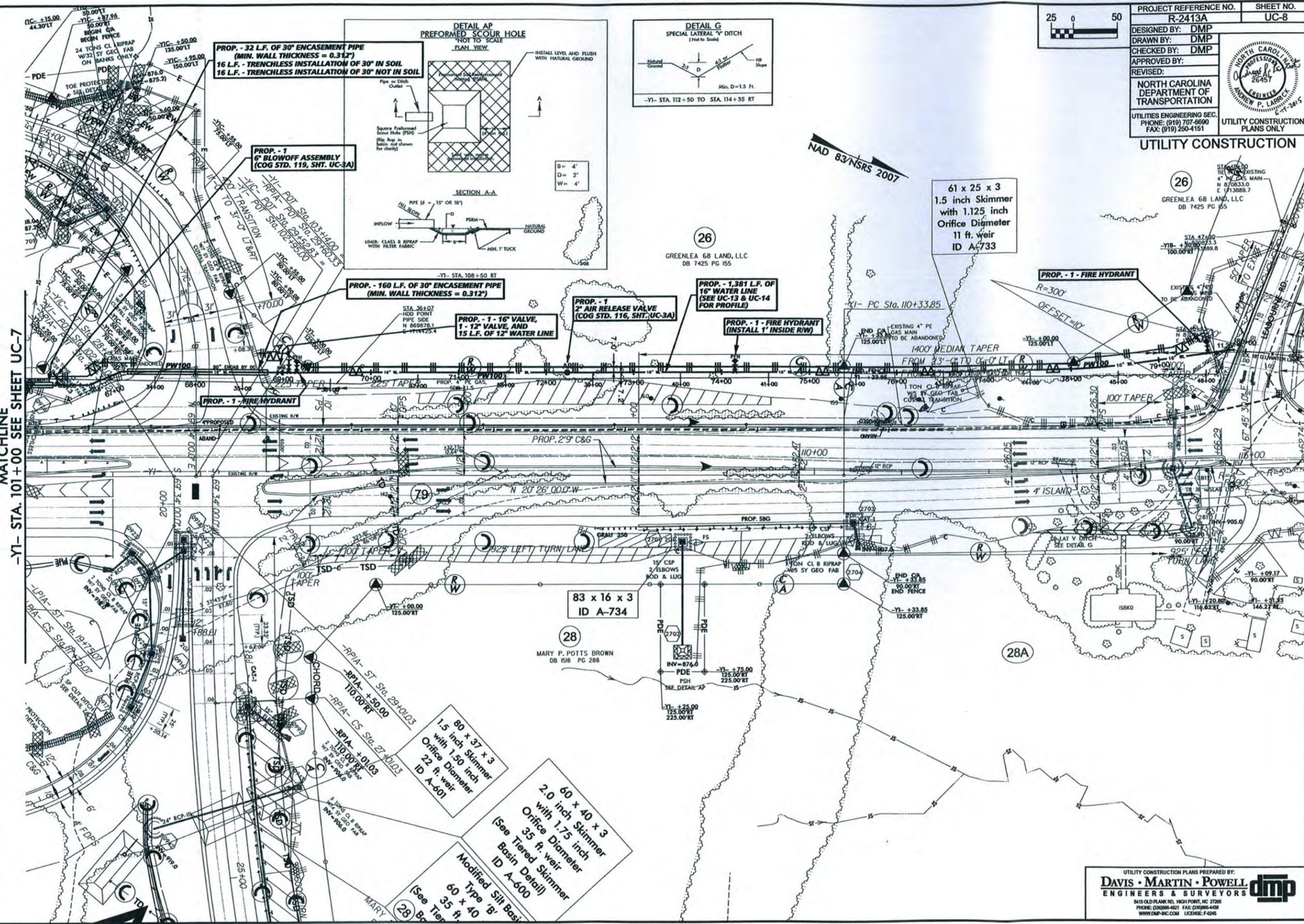
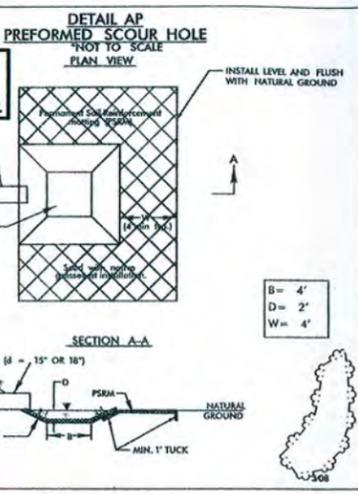
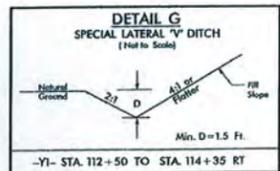
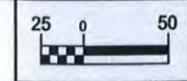
UTILITY CONSTRUCTION PLANS PREPARED BY:

**DAVIS • MARTIN • POWELL**  
 ENGINEERS & SURVEYORS

6415 OLD PLANK RD., HIGH POINT, NC 27285  
 PHONE: (336) 886-4821 FAX: (336) 886-4458  
 WWW.DMP-INC.COM LICENSE: F-6265

8/17/99

PROJECT REFERENCE NO. R-2413A	SHEET NO. UC-8
DESIGNED BY: DMP	
DRAWN BY: DMP	
CHECKED BY: DMP	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
UTILITY CONSTRUCTION PLANS ONLY	

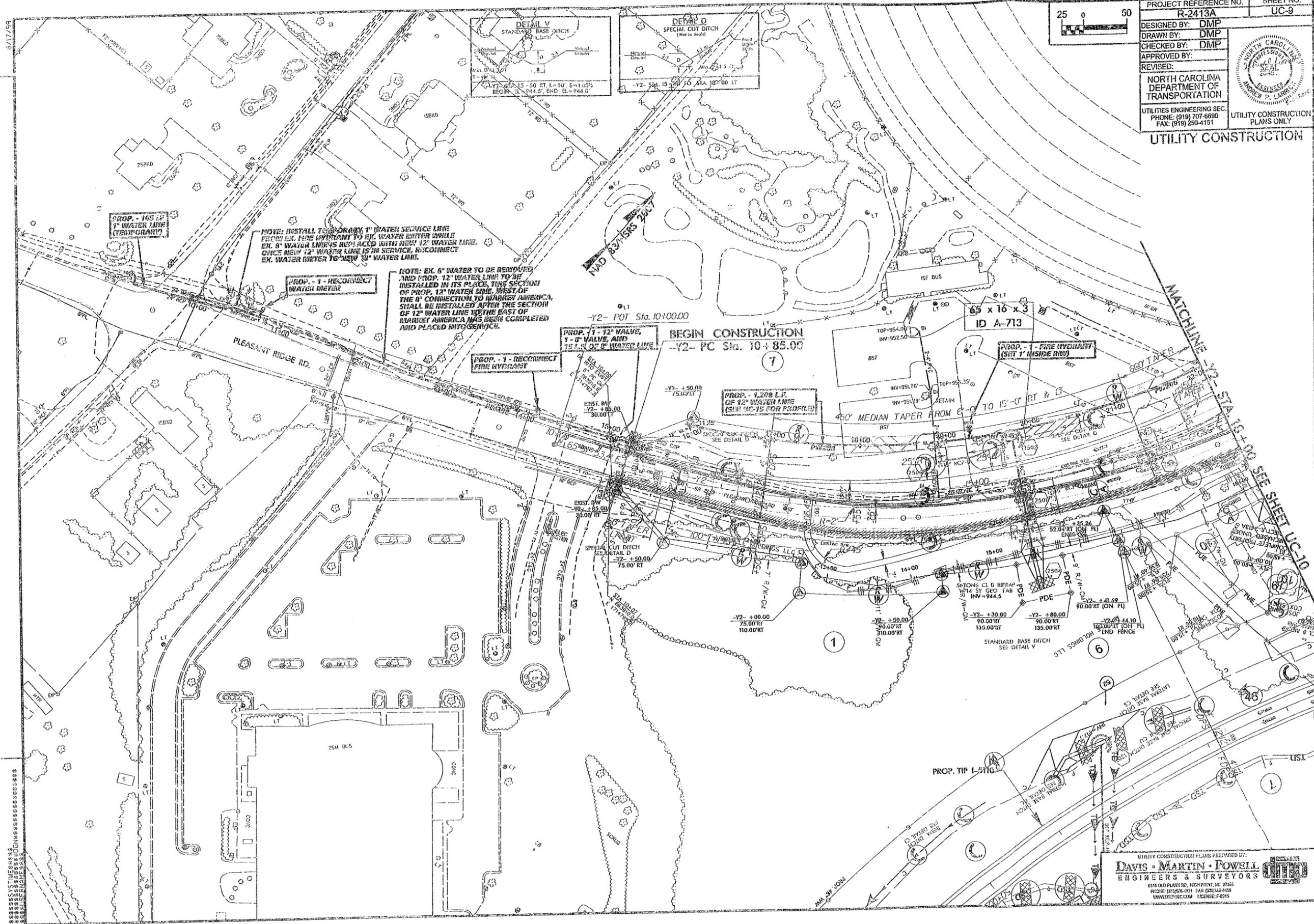
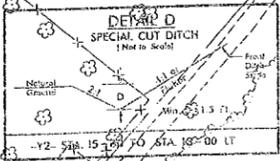
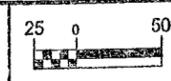


MATCHLINE  
-YI- STA. 101+00 SEE SHEET UC-7

REVISIONS

UTILITY CONSTRUCTION PLANS PREPARED BY:  
**DAVIS • MARTIN • POWELL**  
 ENGINEERS & SURVEYORS   
 5415 OLD PLANK RD., HIGH POINT, NC 27265  
 PHONE: (336) 885-4821 FAX: (336) 885-4458  
 WWW.DMP-INC.COM LICENSE: F-6245

PROJECT REFERENCE NO.	R-2413A	SHEET NO.	UC-9
DESIGNED BY:	DMP		
DRAWN BY:	DMP		
CHECKED BY:	DMP		
APPROVED BY:			
REVISED:			
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION		UTILITY CONSTRUCTION PLANS ONLY	
UTILITIES ENGINEERING SEC.		PHONE: (919) 707-6990	
		FAX: (919) 250-4151	
<b>UTILITY CONSTRUCTION</b>			



NOTE: INSTALL TEMPORARY 1" WATER SERVICE LINE FROM EX. FIRE HYDRANT TO EX. WATER METER WHILE EX. 6" WATER LINE'S REPLACED WITH NEW 12" WATER LINE. ONCE NEW 12" WATER LINE IS IN SERVICE, RECONNECT EX. WATER METER TO NEW 12" WATER LINE.

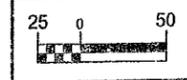
NOTE: EX. 6" WATER TO BE REMOVED AND FROM 12" WATER LINE TO BE INSTALLED IN ITS PLACE, THIS SECTION OF PROP. 12" WATER LINE, WEST OF THE 8" CONNECTION TO MARKET AMERICA, SHALL BE INSTALLED AFTER THE SECTION OF 12" WATER LINE TO THE EAST OF MARKET AMERICA HAS BEEN COMPLETED AND PLACED INTO SERVICE.

BEGIN CONSTRUCTION  
-Y2- PC Sta. 10+85.00

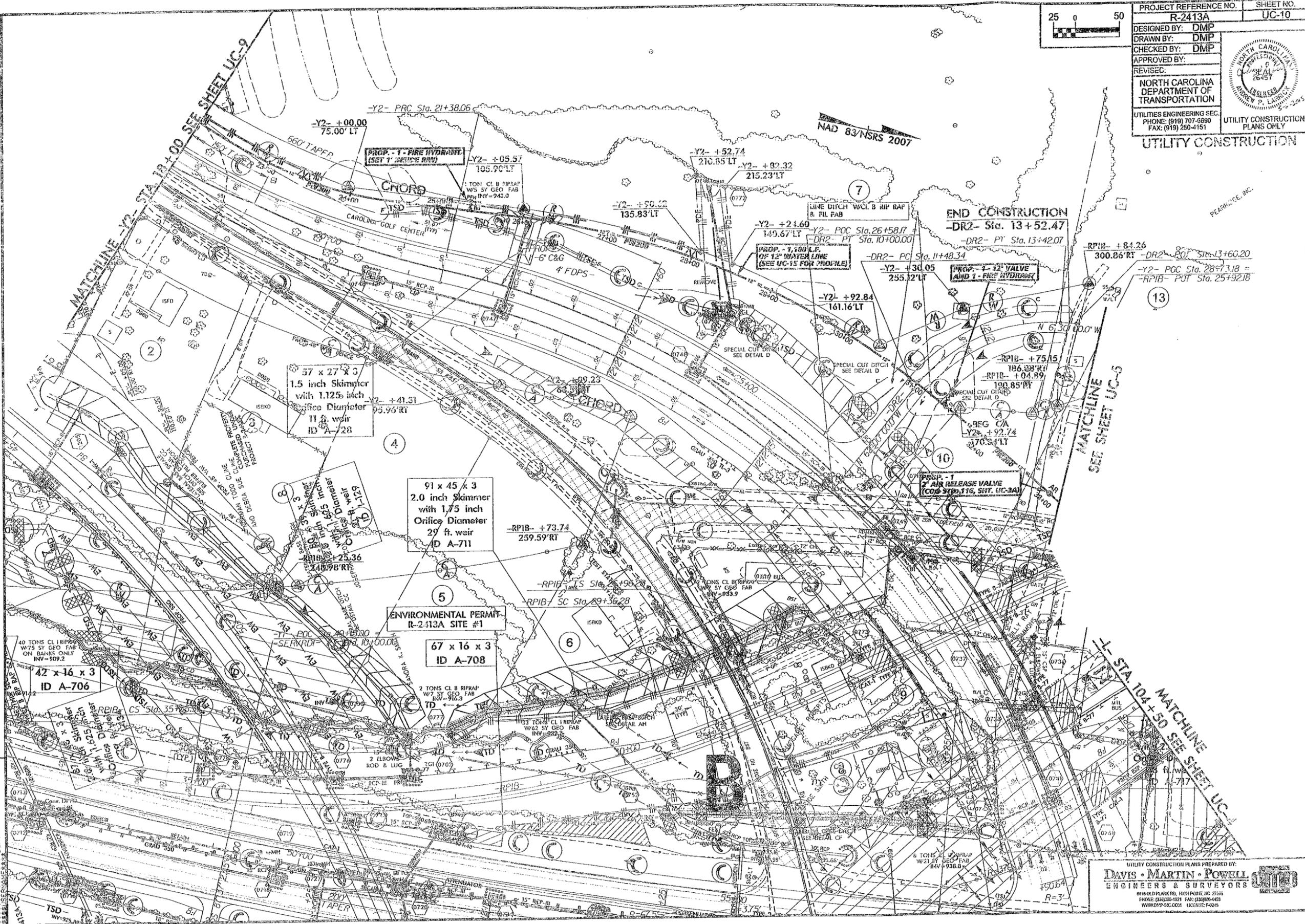
REVISIONS

UTILITY CONSTRUCTION PLANS PREPARED BY:  
**DAVIS • MARTIN • POWELL**  
 ENGINEERS & SURVEYORS  
 6115 OLD PLAZA RD., HIGH POINT, NC 27036  
 PHONE: (813) 906-1921 FAX: (813) 906-1925  
 WWW.DMP-NC.COM LICENSE: F-2015

8/17/99



PROJECT REFERENCE NO.	SHEET NO.
R-2413A	UC-10
DESIGNED BY: DMP	
DRAWN BY: DMP	
CHECKED BY: DMP	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
UTILITY CONSTRUCTION PLANS ONLY	



MATCHLINE Y2 STA 19+00 SEE SHEET UC-9

MATCHLINE SEE SHEET UC-5

MATCHLINE STA. 104+50 SEE SHEET UC-11

37 x 27 x 3  
 1.5 inch Skimmer  
 with 1.125 inch  
 Orifice Diameter  
 11 ft. weir  
 ID A-728

91 x 45 x 3  
 2.0 inch Skimmer  
 with 1.75 inch  
 Orifice Diameter  
 29 ft. weir  
 ID A-711

ENVIRONMENTAL PERMIT  
 R-2413A SITE #1

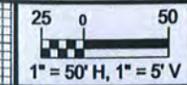
67 x 16 x 3  
 ID A-708

42 x 16 x 3  
 ID A-706

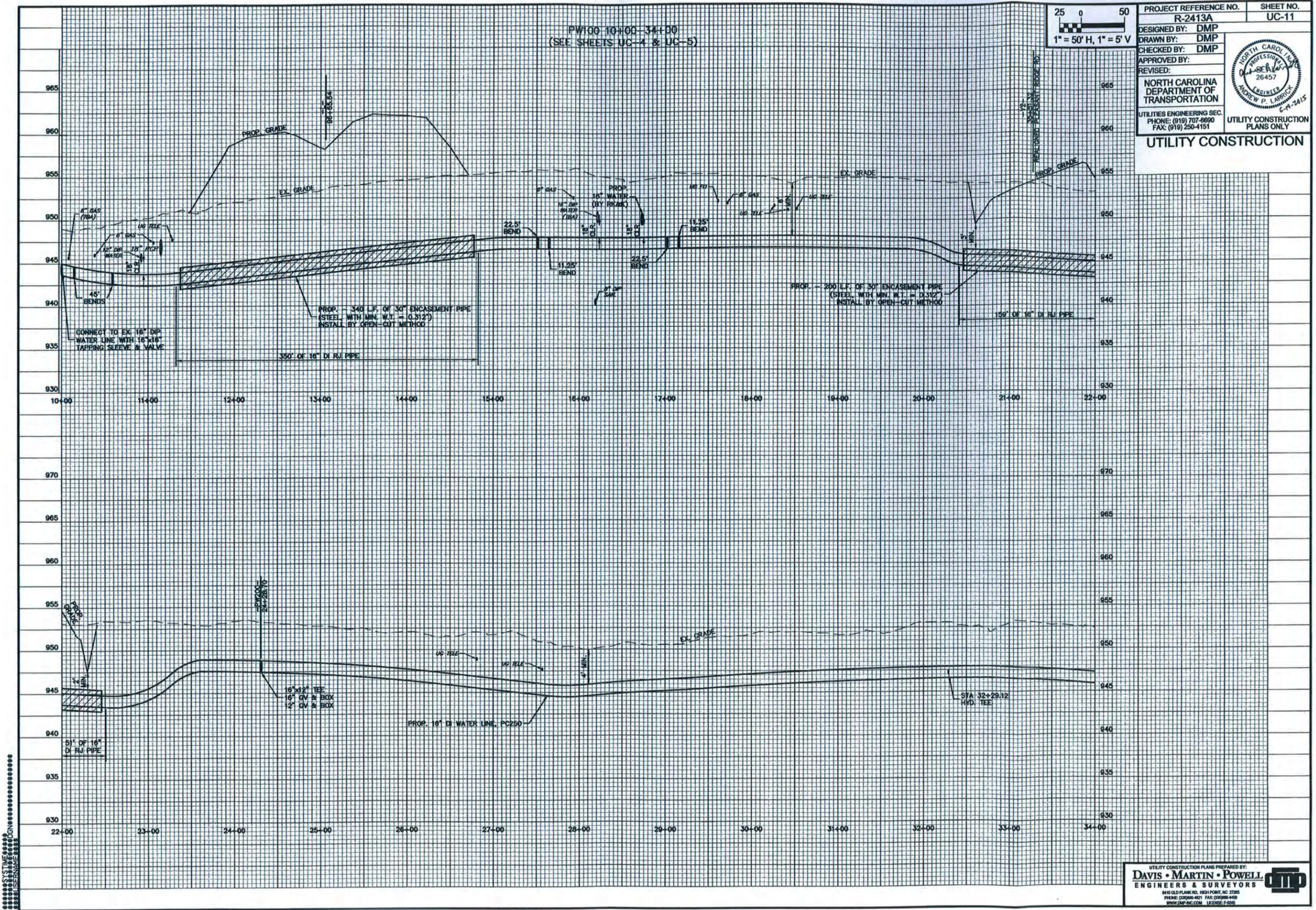
UTILITY CONSTRUCTION PLANS PREPARED BY:  
**DAVIS · MARTIN · POWELL**  
 ENGINEERS & SURVEYORS

815 OLD FLANK RD., HIGH POINT, NC 27535  
 PHONE: (336) 335-1021 FAX: (336) 335-4453  
 WWW.DMP-INC.COM LICENSE: F-2625

PW100 10+00-34+00  
(SEE SHEETS UC-4 & UC-5)



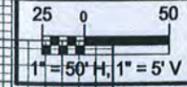
PROJECT REFERENCE NO. R-2413A	SHEET NO. UC-11
DESIGNED BY: DMP	
DRAWN BY: DMP	
CHECKED BY: DMP	
APPROVED BY:	
REVISED:	
<b>NORTH CAROLINA DEPARTMENT OF TRANSPORTATION</b>	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
UTILITY CONSTRUCTION PLANS ONLY	



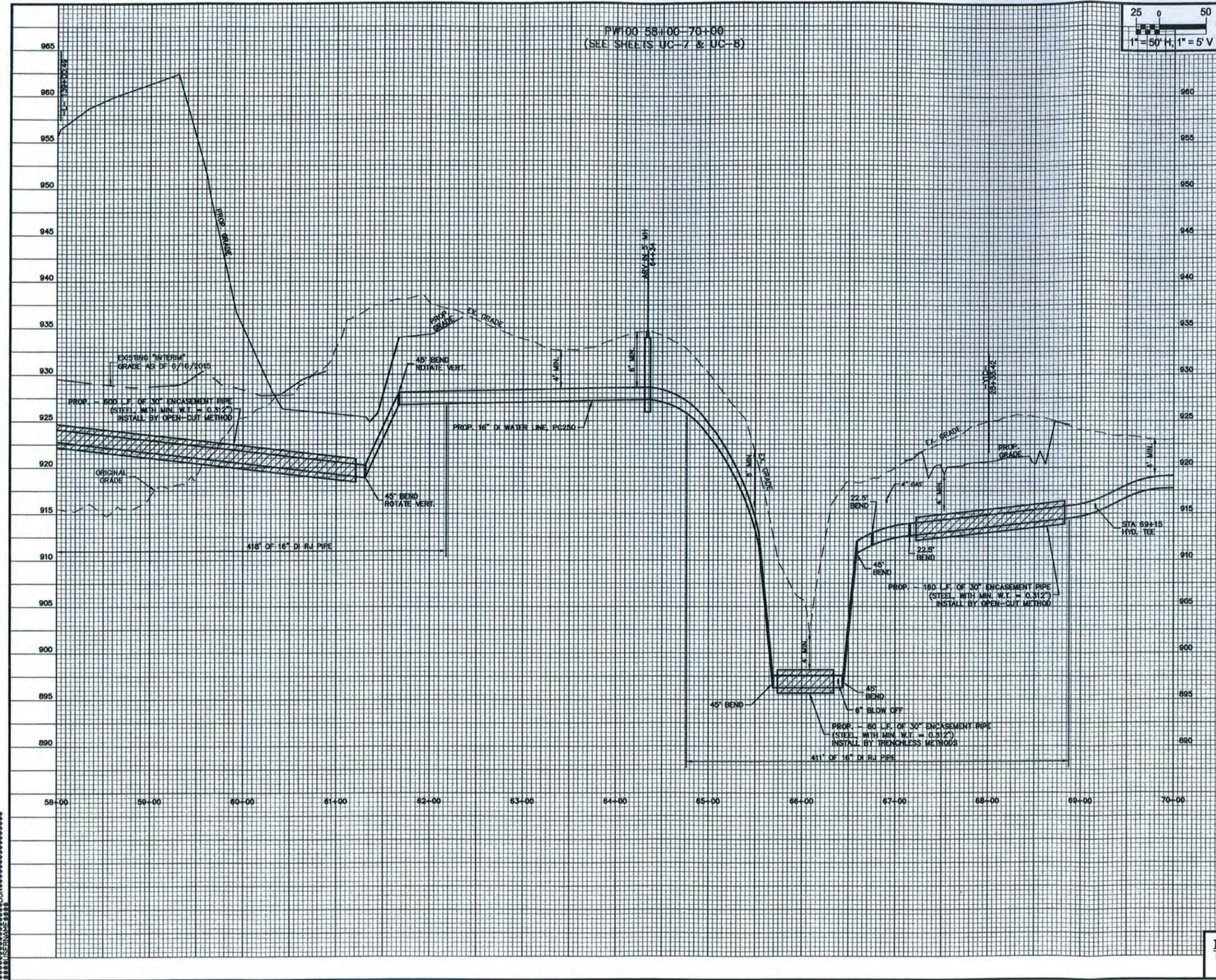
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SYSTEMS  
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PW00 58+00-70+00  
(SEE SHEETS UC-7 & UC-8)



PROJECT REFERENCE NO. R-2413A	SHEET NO. UC-13
DESIGNED BY: DMP	
DRAWN BY: DMP	
CHECKED BY: DMP	
APPROVED BY: DMP	
REVISER:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
UTILITY CONSTRUCTION PLANS ONLY	

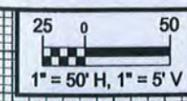


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SYSTEM TIME: 06/16/2015 10:00:00  
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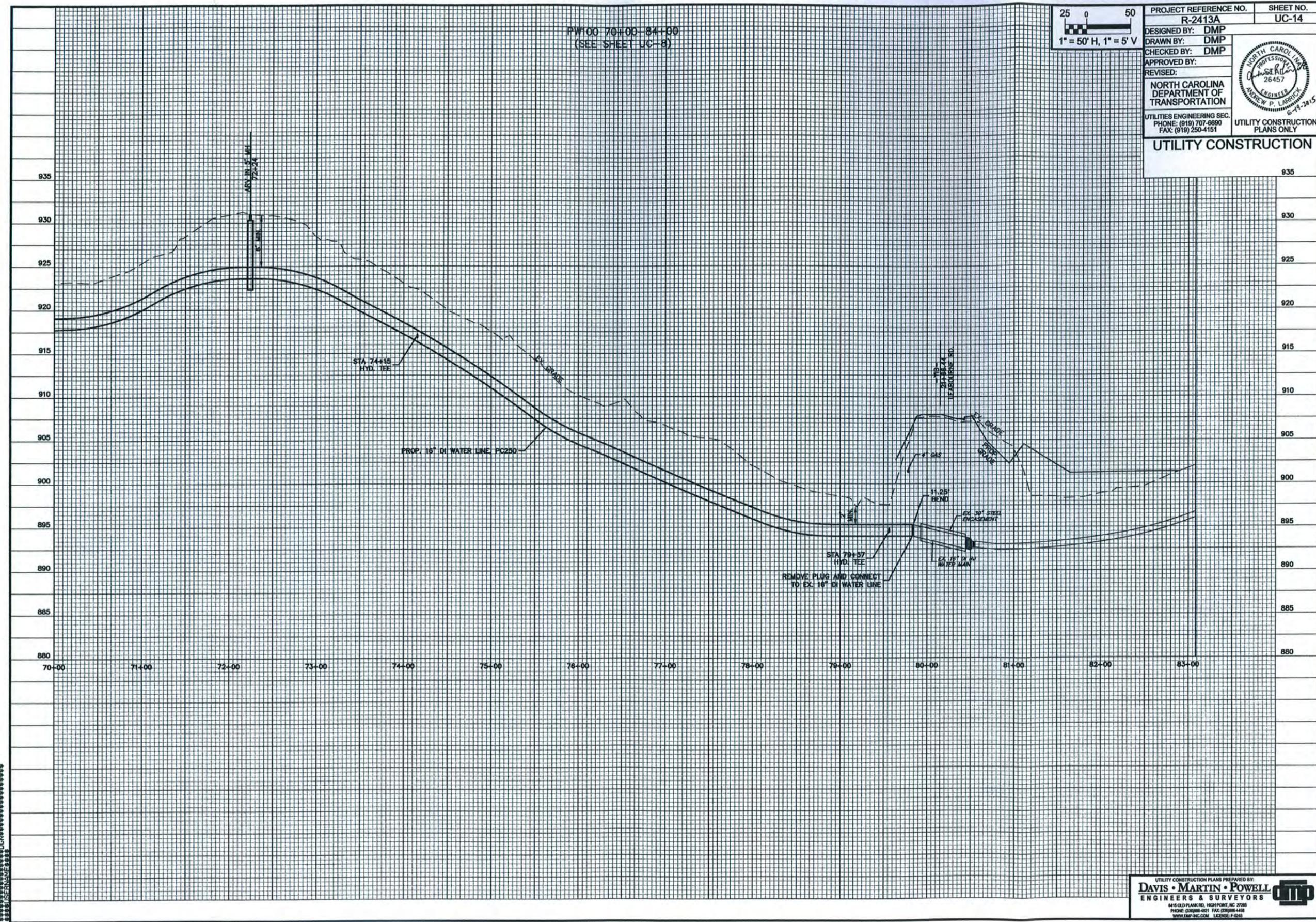
UTILITY CONSTRUCTION PLANS PREPARED BY:  
**DAVIS • MARTIN • POWELL**  
 ENGINEERS & SURVEYORS

6415 OLD PLANK RD, HIGH POINT, NC 27285  
 PHONE: (336) 885-8211 FAX: (336) 885-4458  
 WWW.DMP-NC.COM LICENSE: F-5065

PWF00 70+00-84+00  
(SEE SHEET UC-8)

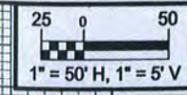


PROJECT REFERENCE NO. R-2413A	SHEET NO. UC-14
DESIGNED BY: DMP	
DRAWN BY: DMP	
CHECKED BY: DMP	
APPROVED BY:	
REVISER:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
UTILITY CONSTRUCTION PLANS ONLY	

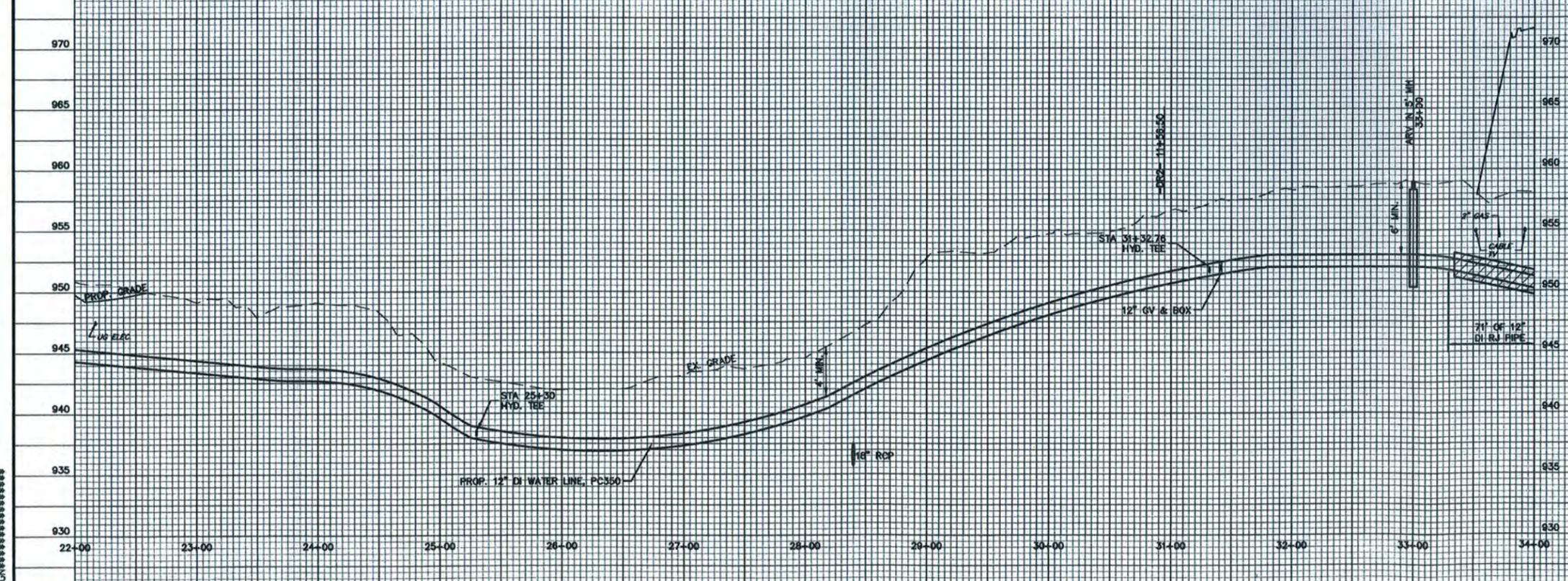
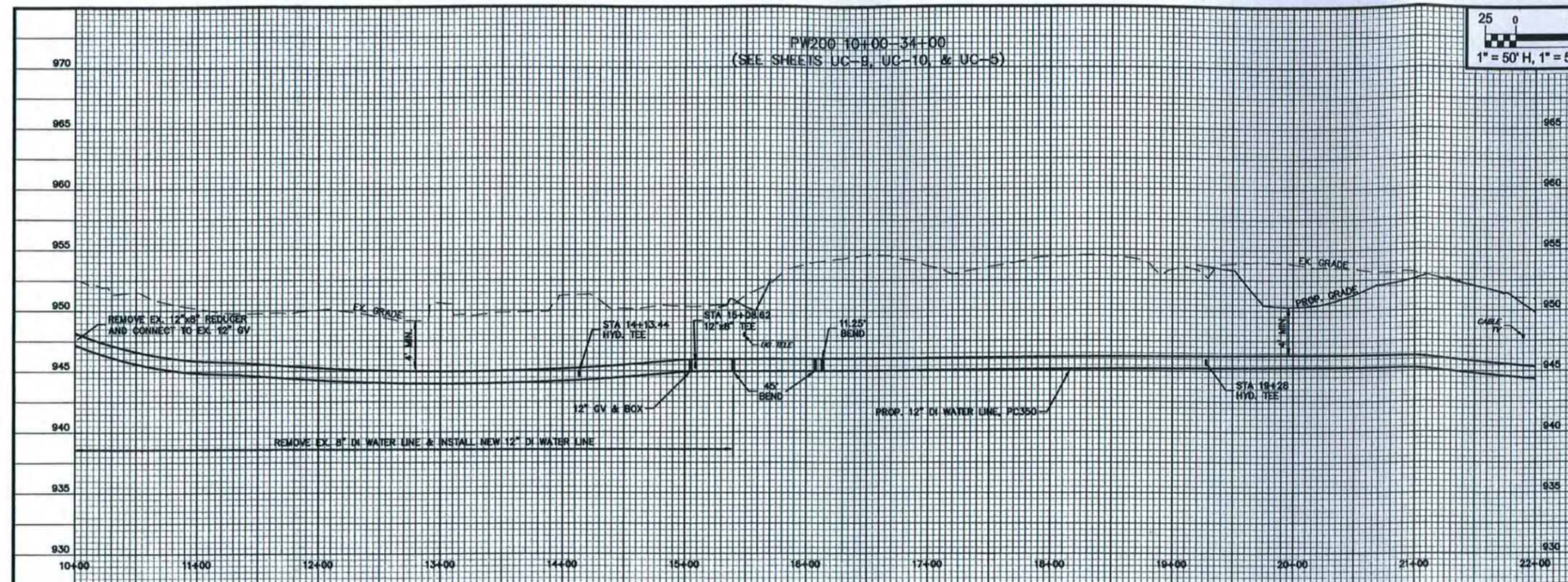


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SYSTEM TIME \*\*\*\*\*  
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PW200 10+00-34+00  
 (SEE SHEETS UC-8, UC-10, & UC-5)

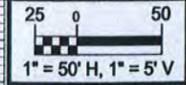


PROJECT REFERENCE NO. R-2413A	SHEET NO. UC-15
DESIGNED BY: DMP	
DRAWN BY: DMP	
CHECKED BY: DMP	
APPROVED BY:	
REVISI:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
UTILITY CONSTRUCTION PLANS ONLY	

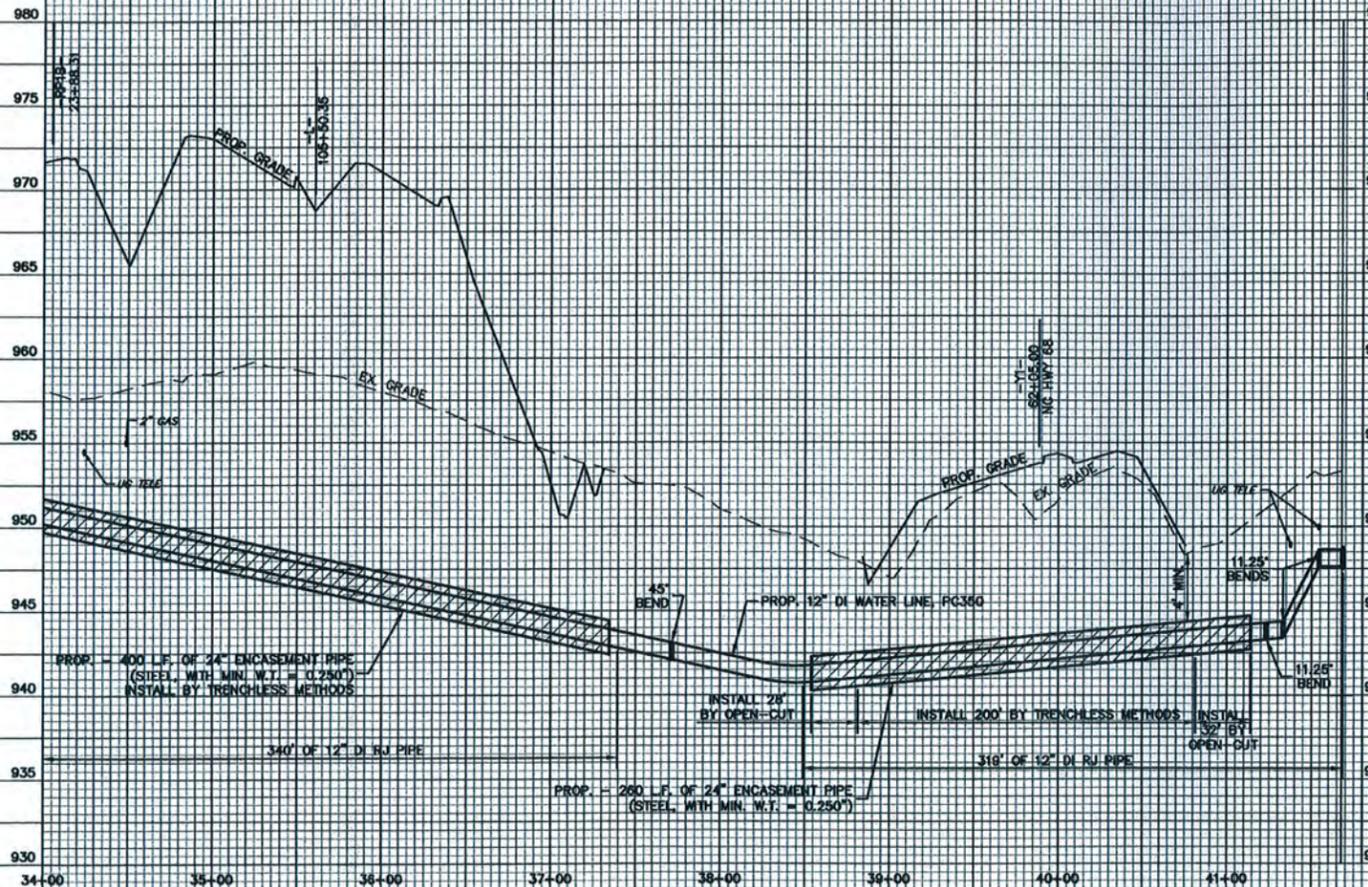


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 SYSTEM \*\*\*\*\*  
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PW200 34+00-43+00  
 (SEE SHEETS UC-10 AND UC-5)



PROJECT REFERENCE NO. R-2413A	SHEET NO. UC-16
DESIGNED BY: DMP	
DRAWN BY: DMP	
CHECKED BY: DMP	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
UTILITY CONSTRUCTION PLANS ONLY	



\*\*\*\*\*  
 SYSTEMS \*\*\*\*\*  
 DESIGN \*\*\*\*\*  
 \*\*\*\*\*

UTILITY CONSTRUCTION PLANS PREPARED BY:  
**DAVIS • MARTIN • POWELL**  
 ENGINEERS & SURVEYORS

6415 OLD PLANK RD., HIGH POINT, NC 27285  
 PHONE: (336) 886-4601 FAX: (336) 886-4408  
 WWW.DMP-NC.COM LICENSE: E-0264