

NOTES

1. SEE SHEET UC-49 FOR PROFILE OF NEW WATER MAIN.

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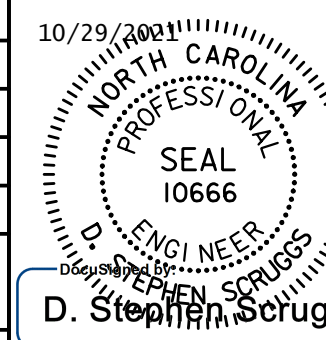


AECOM TECHNICAL SERVICES OF NORTH CAROLINA, INC.
701 CORPORATE CENTER DRIVE, SUITE 475, RALEIGH, NC 27607
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F - 0342

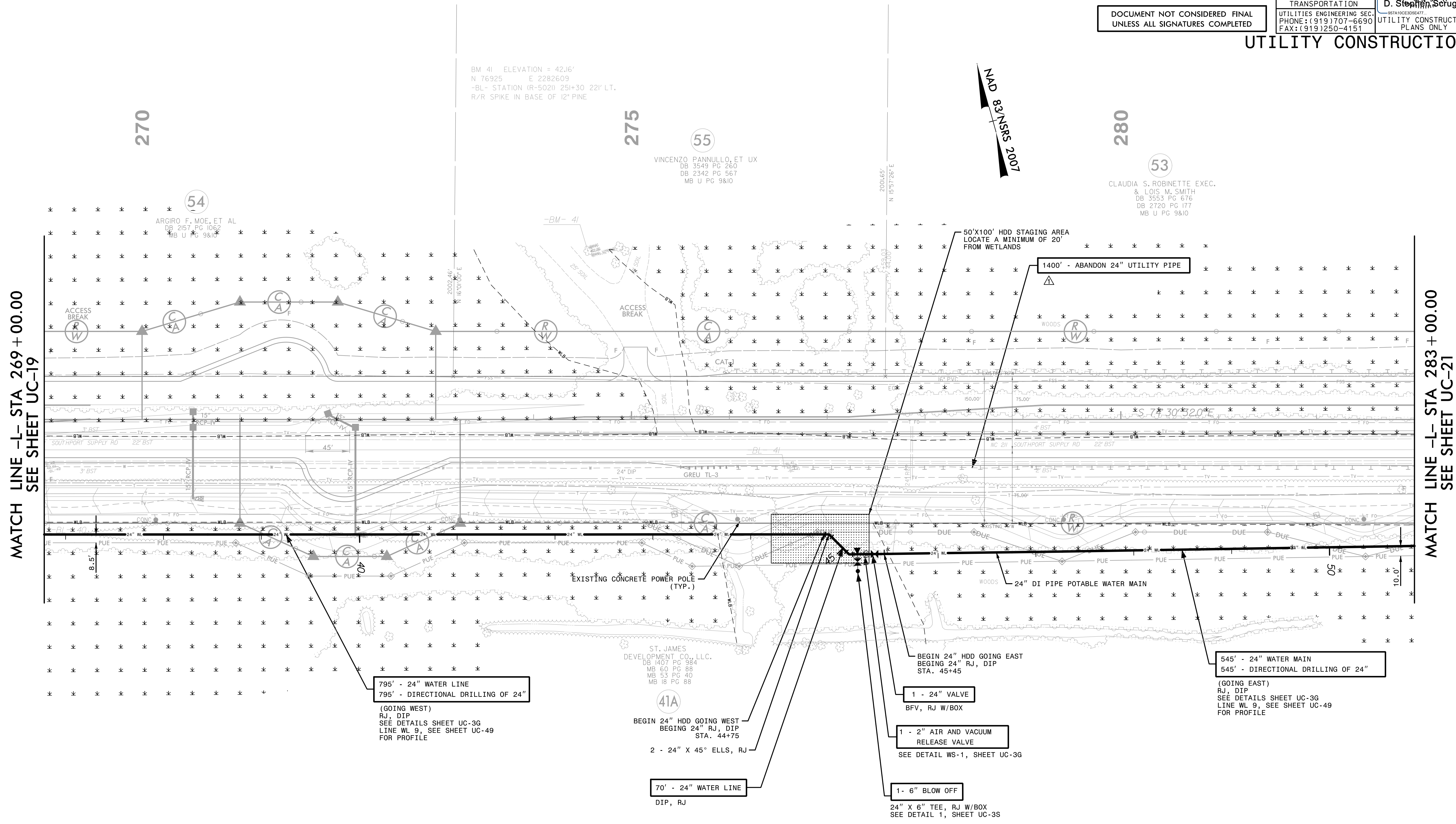
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PROJECT REFERENCE NO. R-5021 SHEET NO. UC-20

DESIGNED BY:	10/29/2001
DRAWN BY:	
CHECKED BY:	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	



UTILITY CONSTRUCTION



MATCH LINE -L- STA 269 + 00.00
SEE SHEET UC-19

MATCH LINE -L- STA 283 + 00.00
SEE SHEET UC-21

BM 41 ELEVATION = 42.16'
N 76925 E 2282609
-BL- STATION (R-502) 251+30 221' LT.
R/R SPIKE IN BASE OF 12" PINE

55
VINCENTO PANNULLO, ET UX
DB 3549 PG 260
DB 2342 PG 567
MB U PG 9810

53
CLAUDIA S. ROBINETTE EXEC.
& LOIS M. SMITH
DB 3553 PG 676
DB 2720 PG 177
MB U PG 9810

54
ARGIRO F. MOE, ET AL
DB 2157 PG 1063
MB U PG 9810

ST. JAMES DEVELOPMENT CO., LLC.
DB 1407 PG 984
MB 60 PG 88
MB 53 PG 40
MB 18 PG 88

41A
BEGIN 24" HDD GOING WEST
BEGIN 24" RJ, DIP
STA. 44+75

BEGIN 24" HDD GOING EAST
BEGIN 24" RJ, DIP
STA. 45+45

545' - 24" WATER MAIN
545' - DIRECTIONAL DRILLING OF 24"

795' - 24" WATER LINE
795' - DIRECTIONAL DRILLING OF 24"

(GOING WEST)
RJ, DIP
SEE DETAILS SHEET UC-36
LINE WL 9, SEE SHEET UC-49
FOR PROFILE

70' - 24" WATER LINE
DIP, RJ

1 - 6" BLOW OFF
24" X 6" TEE, RJ W/BOX
SEE DETAIL 1, SHEET UC-3S

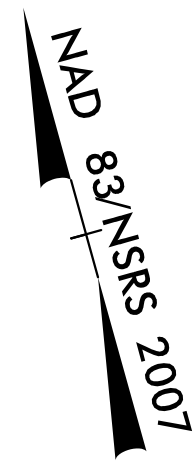
1 - 2" AIR AND VACUUM
RELEASE VALVE
SEE DETAIL WS-1, SHEET UC-3G

1 - 24" VALVE
BFV, RJ W/BOX

The estimated quantity of Ductile Iron Water Pipe Fittings on this plan sheet is 4,005 pounds. The actual quantity and type of fittings will vary based on field conditions.

△ REMOVED NOTE BELOW PAY ITEM FOR ABANDON UTILITY PIPE PER ADDENDUM NO. 1

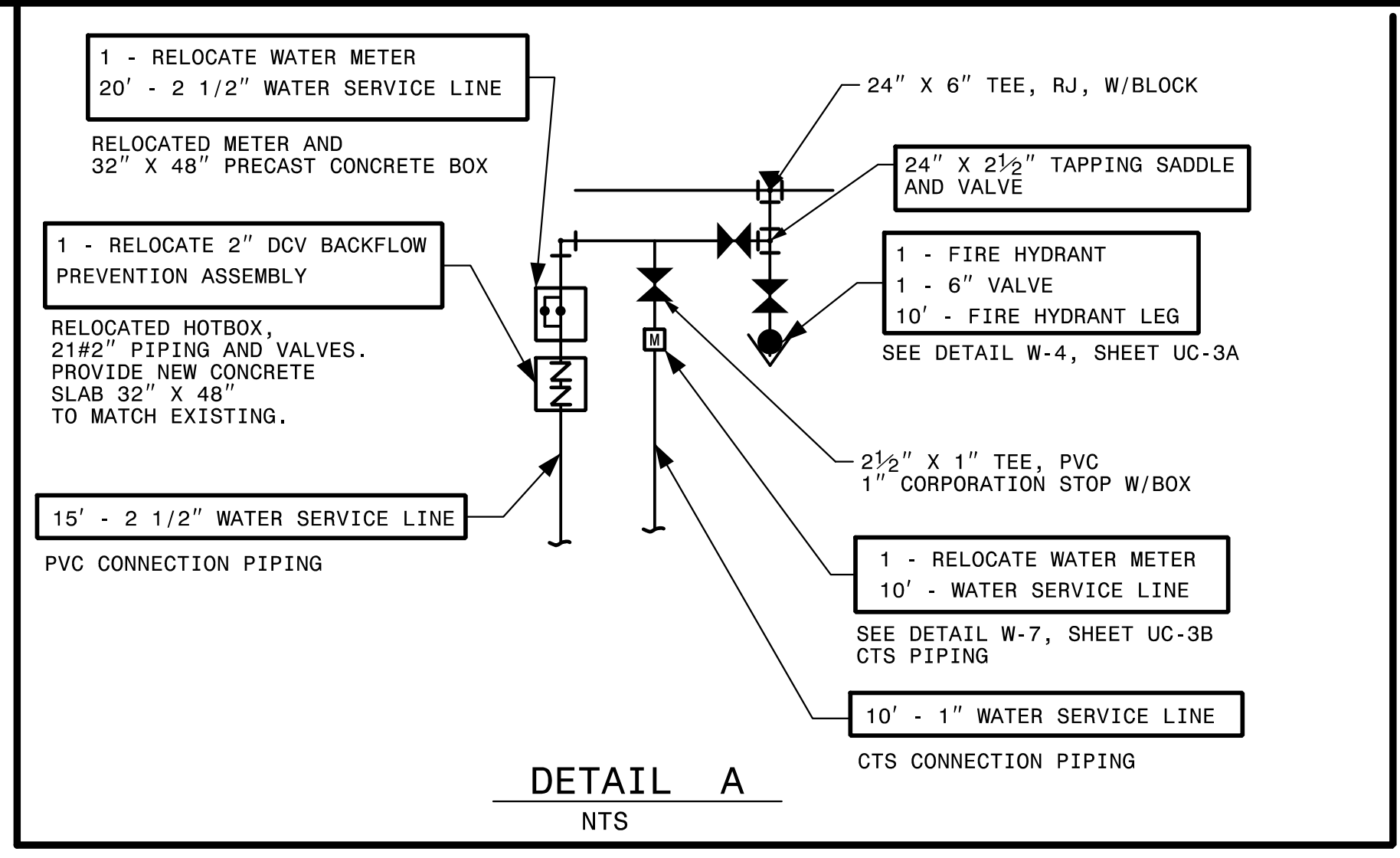
DATE: 10/18/2001
TIME: 2:52:39 PM
DGN: ZVoleigh-USTAL3\ugay\Proj\leas\60428203\900_MerA\915_Utility_Construction\2021_REV\VISIONS\R-5021_UC_20.dgn



285

290

295



- NOTES**
- SEE SHEET UC-50 FOR PROFILE OF NEW WATER MAIN.
 - FIELD LOCATE EXISTING WATER MAINS AND INSTALL NEW 24" WATER MAIN UNDER EXISTING WATER MAINS IN ORDER TO KEEP THE EXISTING IN SERVICE UNTIL THE RECONNECTIONS CAN BE MADE.

Prepared In the Office of:

AECOM

AECOM TECHNICAL SERVICES OF NORTH CAROLINA, INC.
701 CORPORATE CENTER DRIVE, SUITE 475, RALEIGH, NC 27607
919-854-6200 919-854-6259 (fax)
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PROJECT REFERENCE NO. **R-5021** SHEET NO. **UC-21**

DESIGNED BY: 10/29/2007
DRAWN BY:
CHECKED BY:
APPROVED BY:
REVISED:

SEAL 10666
D. Stephen Scroggs
REGISTERED PROFESSIONAL ENGINEER
STATE OF NORTH CAROLINA

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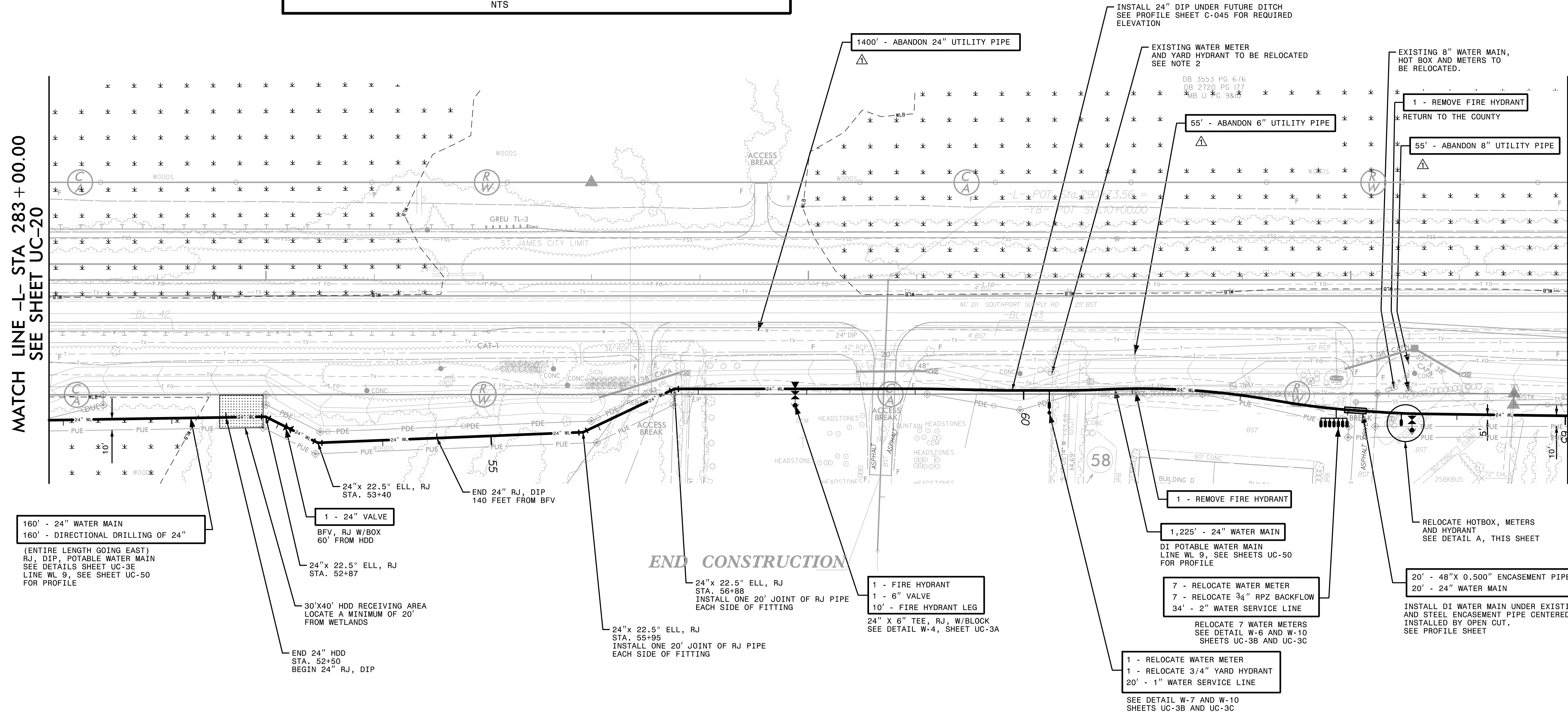
UTILITY ENGINEERING SEC.
PHONE: (919) 707-6690
FAX: (919) 250-4151

UTILITY CONSTRUCTION
PLANS ONLY

UTILITY CONSTRUCTION

MATCH LINE -L- STA 283 + 00.00
SEE SHEET UC-20

MATCH LINE -L- STA 297 + 00.00
SEE SHEET UC-22



160' - 24" WATER MAIN
160' - DIRECTIONAL DRILLING OF 24"
(ENTIRE LENGTH GOING EAST)
RJ, DIP, POTABLE WATER MAIN
SEE DETAILS SHEET UC-3E
LINE WL 9, SEE SHEET UC-50
FOR PROFILE

1 - 24" VALVE
BFV, RJ W/BOX
60' FROM HDD

24"x 22.5° ELL, RJ
STA. 52+87

30'x40' HDD RECEIVING AREA
LOCATE A MINIMUM OF 20'
FROM WETLANDS

END 24" HDD
STA. 52+50
BEGIN 24" RJ, DIP

END 24" RJ, DIP
140 FEET FROM BFV

24"x 22.5° ELL, RJ
STA. 55+95
INSTALL ONE 20' JOINT OF RJ PIPE
EACH SIDE OF FITTING

1 - FIRE HYDRANT
1 - 6" VALVE
10' - FIRE HYDRANT LEG

24" X 6" TEE, RJ, W/BLOCK
SEE DETAIL W-4, SHEET UC-3A

1 - REMOVE FIRE HYDRANT

1,225' - 24" WATER MAIN

DI POTABLE WATER MAIN
LINE WL 9, SEE SHEETS UC-50
FOR PROFILE

7 - RELOCATE WATER METER
7 - RELOCATE 3/4" RPZ BACKFLOW
34' - 2" WATER SERVICE LINE

RELOCATE 7 WATER METERS
SEE DETAIL W-6 AND W-10
SHEETS UC-3B AND UC-3C

1 - RELOCATE WATER METER
1 - RELOCATE 3/4" YARD HYDRANT
20' - 1" WATER SERVICE LINE

SEE DETAIL W-7 AND W-10
SHEETS UC-3B AND UC-3C

20' - 48" X 0.500" ENCASEMENT PIPE
20' - 24" WATER MAIN

INSTALL DI WATER MAIN UNDER EXISTING SEWER,
AND STEEL ENCASEMENT PIPE CENTERED ON SEWER.
INSTALLED BY OPEN CUT.
SEE PROFILE SHEET

END CONSTRUCTION

△ REMOVED NOTE BELOW PAY ITEM FOR ABANDON UTILITY PIPE PER ADDENDUM NO. 1

The estimated quantity of Ductile Iron Water Pipe Fittings on this plan sheet is 6,016 pounds. The actual quantity and type of fittings will vary based on field conditions.

Prepared In the Office of:



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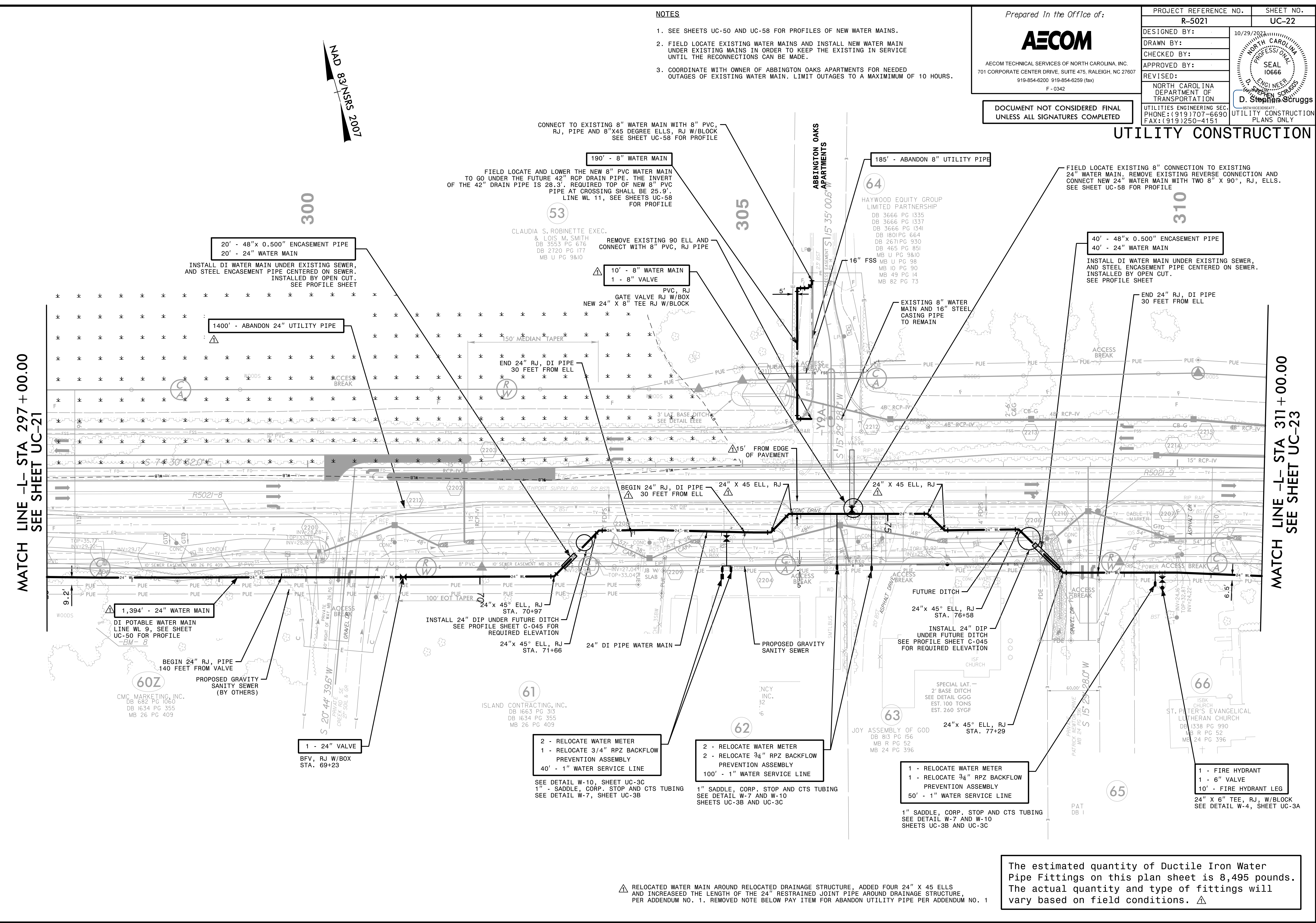
PROJECT REFERENCE NO.	R-5021	SHEET NO.	UC-22
DESIGNED BY:		DATE	10/29/2021
DRAWN BY:			
CHECKED BY:			
APPROVED BY:			
REVISED:			
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION		SEAL 10666	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151		D. Stephen Scroggs REGISTERED PROFESSIONAL ENGINEER NO. 10666	
UTILITY CONSTRUCTION PLANS ONLY			

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UTILITY CONSTRUCTION

NOTES

- SEE SHEETS UC-50 AND UC-58 FOR PROFILES OF NEW WATER MAINS.
- FIELD LOCATE EXISTING WATER MAINS AND INSTALL NEW WATER MAIN UNDER EXISTING MAINS IN ORDER TO KEEP THE EXISTING IN SERVICE UNTIL THE RECONNECTIONS CAN BE MADE.
- COORDINATE WITH OWNER OF ABBINGTON OAKS APARTMENTS FOR NEEDED OUTAGES OF EXISTING WATER MAIN. LIMIT OUTAGES TO A MAXIMUM OF 10 HOURS.



The estimated quantity of Ductile Iron Water Pipe Fittings on this plan sheet is 8,495 pounds. The actual quantity and type of fittings will vary based on field conditions. Δ

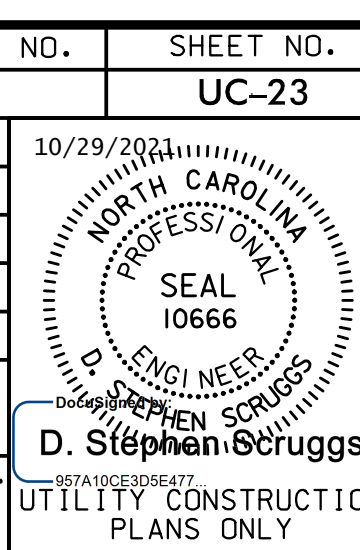
Δ RELOCATED WATER MAIN AROUND RELOCATED DRAINAGE STRUCTURE, ADDED FOUR 24" X 45 ELLS AND INCREASED THE LENGTH OF THE 24" RESTRAINED JOINT PIPE AROUND DRAINAGE STRUCTURE, PER ADDENDUM NO. 1. REMOVED NOTE BELOW PAY ITEM FOR ABANDON UTILITY PIPE PER ADDENDUM NO. 1

DATE: 10/26/2021
TIME: 10:59:38 AM
DGN: Z:\Projects\Utility Construction\2021_Rev\10\MSR-5021_UC_F51422.dgn



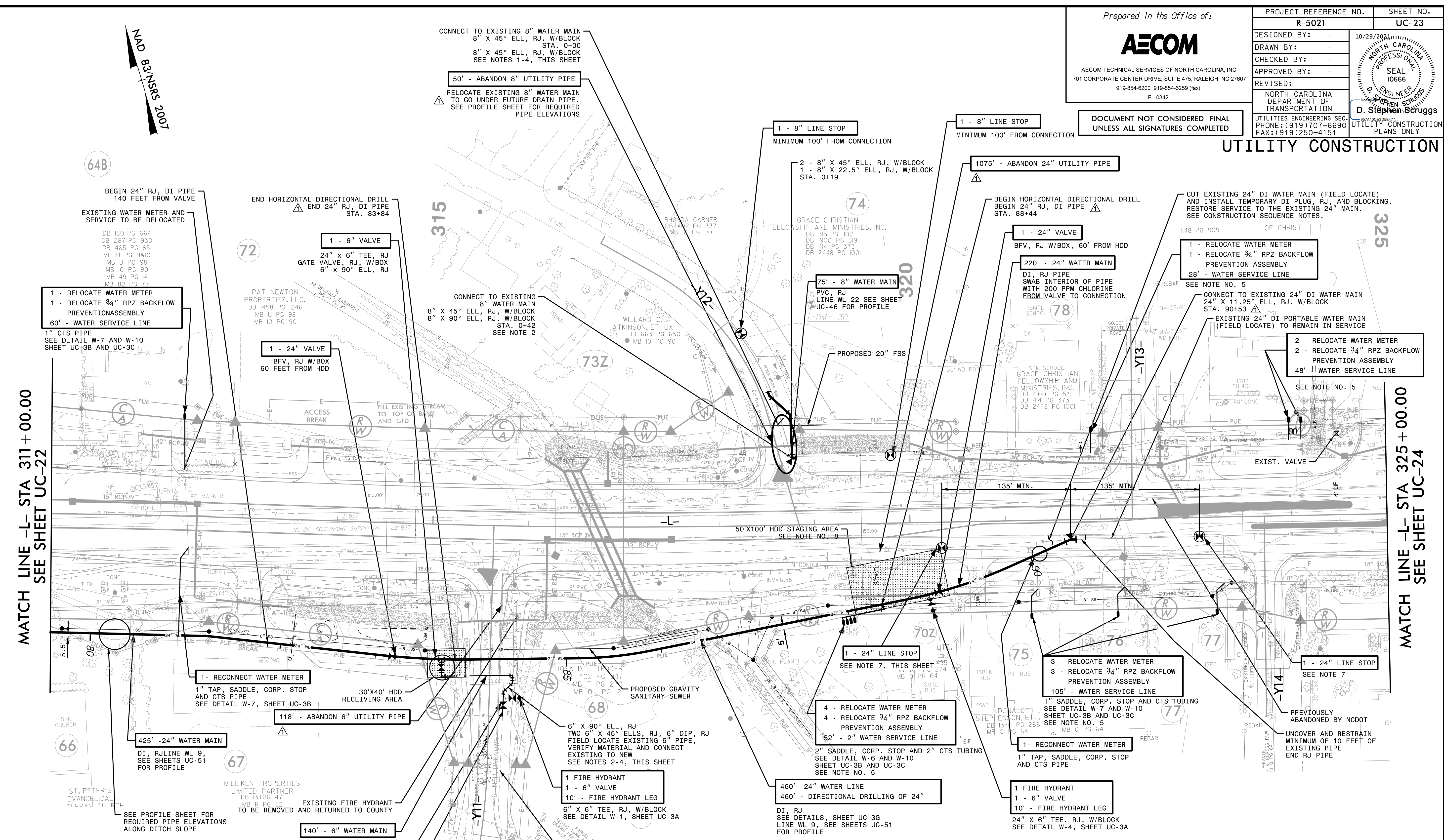
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701 CORPORATE CENTER DRIVE, SUITE 475, RALEIGH, NC 27607
919-854-6200 919-854-6259 (fax)
F-0342

PROJECT REFERENCE NO.	SHEET NO.
R-5021	UC-23
DESIGNED BY:	10/29/2021
DRAWN BY:	
CHECKED BY:	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SECTION	
PHONE: (919) 707-6690	
FAX: (919) 250-4151	



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UTILITY CONSTRUCTION



MATCH LINE -L- STA 311 + 00.00
SEE SHEET UC-22

MATCH LINE -L- STA 325 + 00.00
SEE SHEET UC-24

- NOTES**
- LOWER EXISTING WATER MAIN TO AVOID CONFLICT WITH FUTURE STORM DRAIN DITCH. FIELD LOCATE PIPE AND VERIFY SIZE AND MATERIALS. INSTALL RESTRAINED JOINT WATER MAINS AND FITTINGS IN ORDER TO LOWER EXISTING PIPE. CONNECTIONS TO EXISTING PIPE SHALL BE MADE WITH RESTRAINT COUPLINGS AND 20 FEET OF RESTRAINT JOINT PIPE.
 - KEEP INTERIORS OF NEW PIPES AND FITTINGS CLEAN OF DIRT. SWAB INTERIORS OF PIPES AND FITTINGS WITH 200 PARTS PER MILLION OF CHLORINE SOLUTION. RESTORE WATER SERVICE AND SOON AS POSSIBLE.
 - FIELD LOCATE EXISTING CUT-OFF VALVES AND SHUT OFF WATER. SAW CUT EXISTING PIPE AND INSTALL RESTRAINED PIPE AND FITTINGS, AND CONCRETE BLOCKING.
 - RESTORE DISTURBED AREAS.
 - RELOCATE EXISTING WATER METER, BOX, RPZ BACKFLOW PREVENTION ASSEMBLY AND SERVICE PIPE TO RIGHT-OF-WAY. USE 1" CTS PIPE PER DETAIL W-7 AND W-10, SHEETS UC-3B AND UC-3C.
 - SEE SHEET UC-51 FOR PROFILE OF NEW WATER MAIN.
 - INSTALL LINE STOP TO ALLOW FOR CONNECTION TO BE MADE AND TO ALLOW FOR EXISTING 24" WATER MAIN TO REMAIN IN SERVICE UNTIL ALL SERVICES HAVE BEEN RELOCATED. ALSO SEE NOTE 6, SHEET UC-17.
 - PERFORM THE HDD ON THE WEEKEND WHEN THE EXISTING BUSINESSES ARE CLOSED. REPAIR GRAVEL DRIVE AND MAKE ACCESSABLE BY MONDAY MORNING, START OF BUSINESS.

The estimated quantity of Ductile Iron Water Pipe Fittings on this plan sheet is 5,480 pounds. The actual quantity and type of fittings will vary based on field conditions.

REMOVED NOTE BELOW PAY ITEM FOR ABANDON UTILITY PIPE PER ADDENDUM NO. 1 REVISED WATER MAIN STATIONING AND HORIZONTAL DIRECTIONAL DRILL BEGIN AND END STATIONS AS A RESULT OF PIPE REVISIONS SHOWN ON SHEET UC-22, PER ADDENDUM NO. 1.

DATE: 10/26/2021
TIME: 10:24:00 AM
DRAWN BY: ZVW/rlg
PROJECT: USFAL3 Legacy Project 60428203300_MerA915_Utility Construction 2021_REV15015015-2021_UC-F51423.dgn

NOTES

1. SEE SHEET UC-55 FOR PROFILE OF NEW WATER MAIN.

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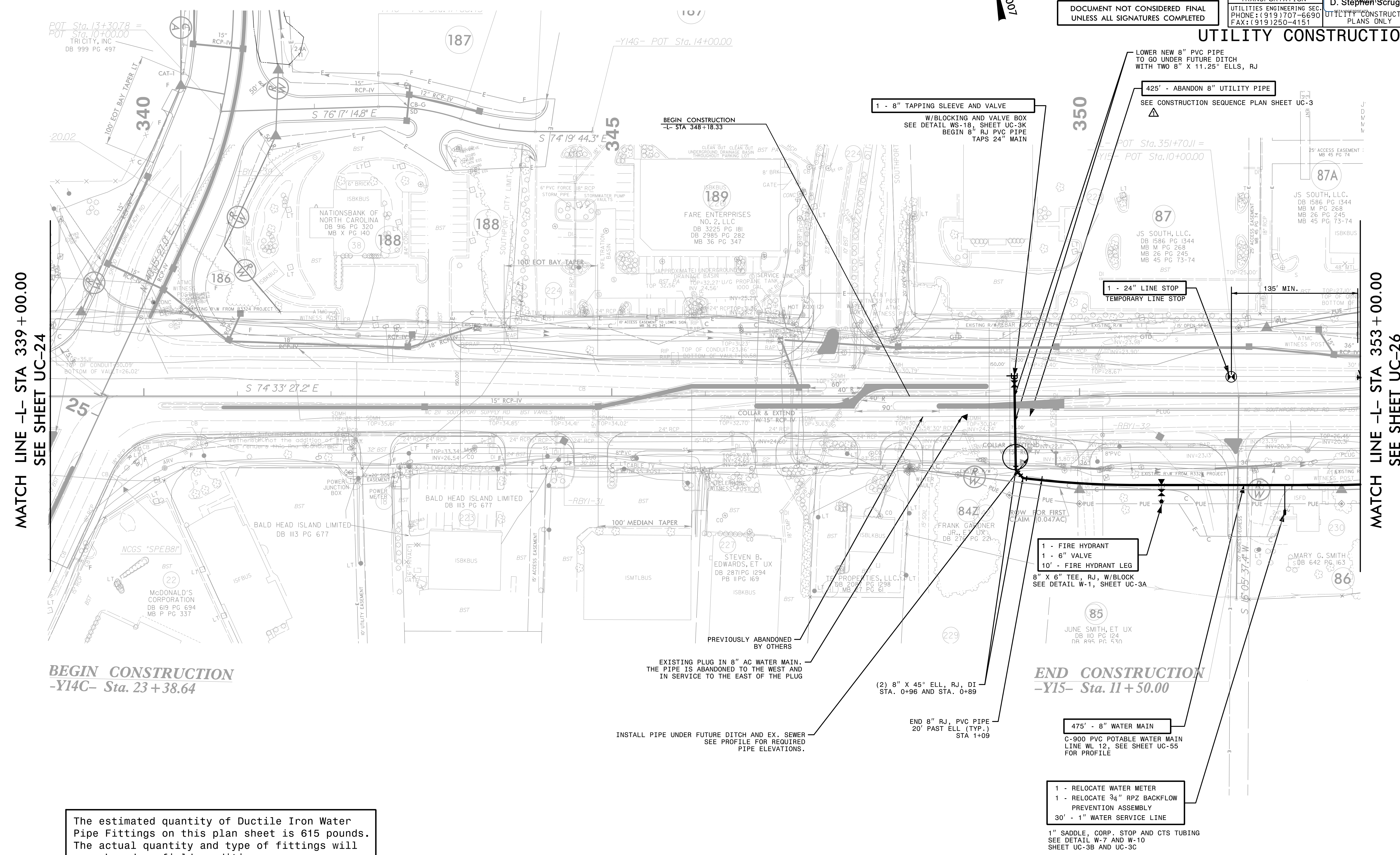


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PROJECT REFERENCE NO.	R-5021	SHEET NO.	UC-25
DESIGNED BY:		DATE:	10/29/2021
DRAWN BY:			
CHECKED BY:			
APPROVED BY:			
REVISED:			
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION		SEAL 10666	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151		D. Stephen Scruggs	

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UTILITY CONSTRUCTION



MATCH LINE -L- STA 339 + 00.00
SEE SHEET UC-24

MATCH LINE -L- STA 353 + 00.00
SEE SHEET UC-26

BEGIN CONSTRUCTION
-Y14C- Sta. 23 + 38.64

END CONSTRUCTION
-Y15- Sta. 11 + 50.00

The estimated quantity of Ductile Iron Water Pipe Fittings on this plan sheet is 615 pounds. The actual quantity and type of fittings will vary based on field conditions.

REMOVED NOTE BELOW PAY ITEM FOR ABANDON UTILITY PIPE PER ADDENDUM NO. 1

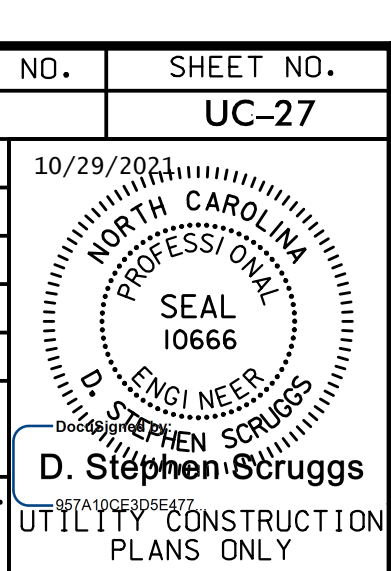
DATE: 10/08/2021
TIME: 4:00:59 PM
DGN: Z:\Voleigh\USFALTY\Legacy\Projects\60428203\900_MerA\915_Utility_Construction\2021_REV\15015015R-5021_UC_25.dgn

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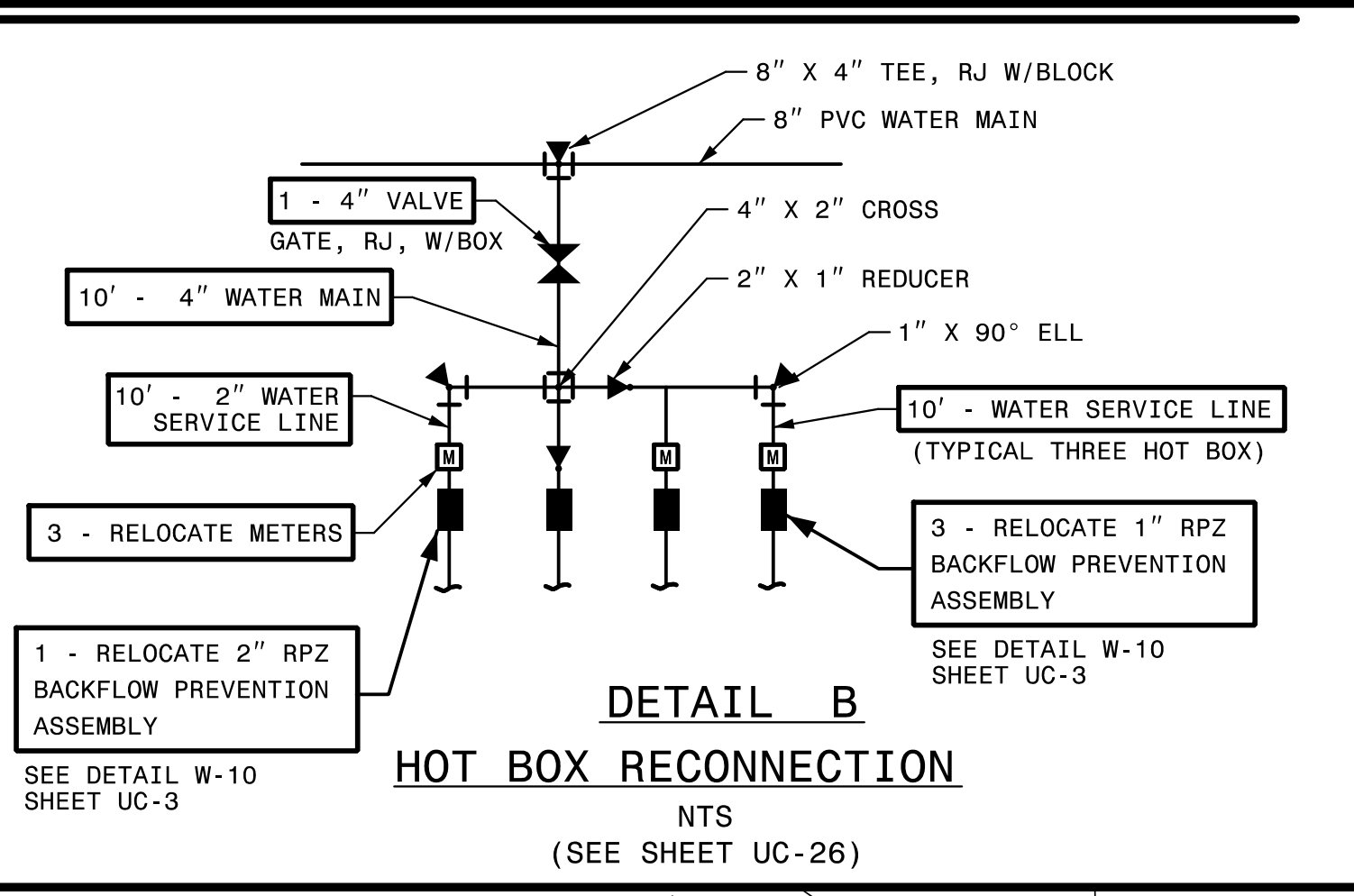
AECOM TECHNICAL SERVICES OF NORTH CAROLINA, INC.
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F - 0342

PROJECT REFERENCE NO.	R-5021	SHEET NO.	UC-27
DESIGNED BY:		DATE:	10/29/2024
DRAWN BY:		PROFESSIONAL SEAL	10666
CHECKED BY:		ENGINEER	
APPROVED BY:		DEPARTMENT OF TRANSPORTATION	
REVISED:		UTILITIES ENGINEERING SEC.	
		PHONE: (919) 707-6690	
		FAX: (919) 250-4151	



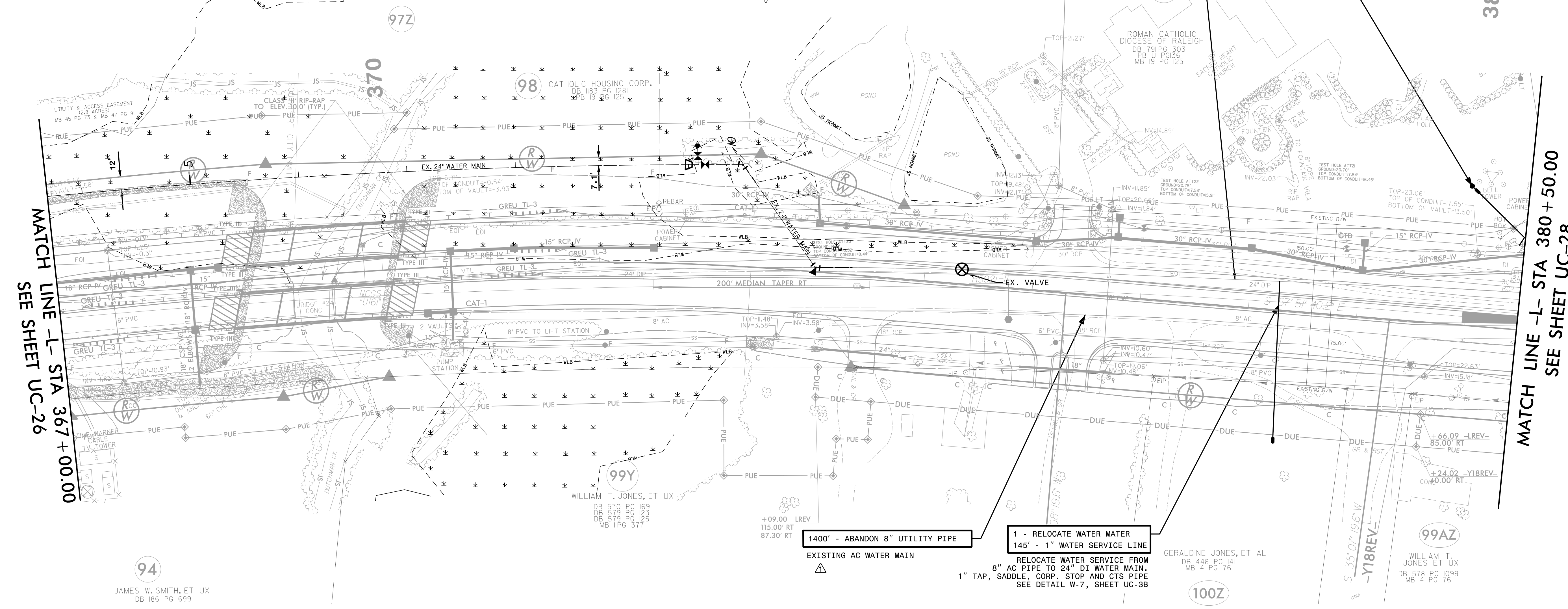
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UTILITY CONSTRUCTION



1 - RELOCATE WATER METER
1 - RELOCATE 2" RPZ BACKFLOW PREVENTION ASSEMBLY
75' - 2" WATER SERVICE LINE

PROVIDE NEW CONCRETE SLAB TO MATCH EXISTING
SEE DETAIL W-7 AND W-10
SHEET UC-3B AND UC-3C



MATCH LINE -L- STA 367 + 00.00
SEE SHEET UC-26

MATCH LINE -L- STA 380 + 50.00
SEE SHEET UC-28

1400' - ABANDON 8" UTILITY PIPE
EXISTING AC WATER MAIN

1 - RELOCATE WATER METER
145' - 1" WATER SERVICE LINE
RELOCATE WATER SERVICE FROM 8" AC PIPE TO 24" DI WATER MAIN. 1" TAP, SADDLE, CORP. STOP AND CTS PIPE SEE DETAIL W-7, SHEET UC-3B

The estimated quantity of Ductile Iron Water Pipe Fittings on this plan sheet is 165 pounds. The actual quantity and type of fittings will vary based on field conditions.

△ REMOVED NOTE BELOW PAY ITEM FOR ABANDON UTILITY PIPE PER ADDENDUM NO. 1

DATE: 10/18/2024
TIME: 4:44 PM
DGN: ZVoleigh-USA/AL3/Utility/Projects/60428203/900_MerA/915_UTILITY CONSTRUCTION/2021_REV/010/MSR-5021_UC_27_UC-27.dgn


94
JAMES W. SMITH, ET UX
DB 186 PG 699

99Y
WILLIAM T. JONES, ET UX
DB 570 PG 169
DB 573 PG 124
DB 576 PG 124
MB 1 PG 377

100Z
GERALDINE JONES, ET AL
DB 446 PG 141
MB 4 PG 76

99AZ
WILLIAM T. JONES ET UX
DB 578 PG 1099
MB 4 PG 76

Prepared In the Office of:



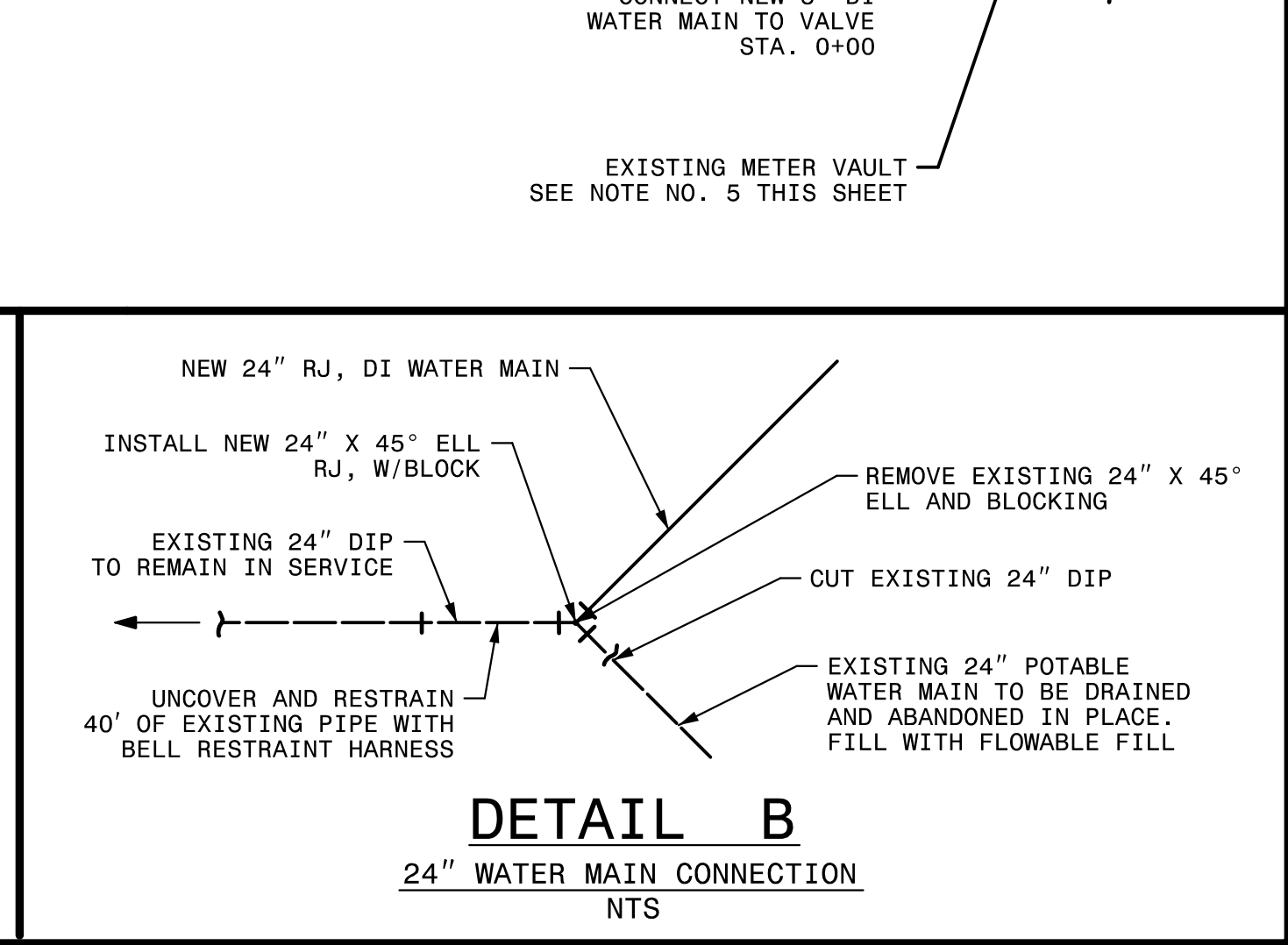
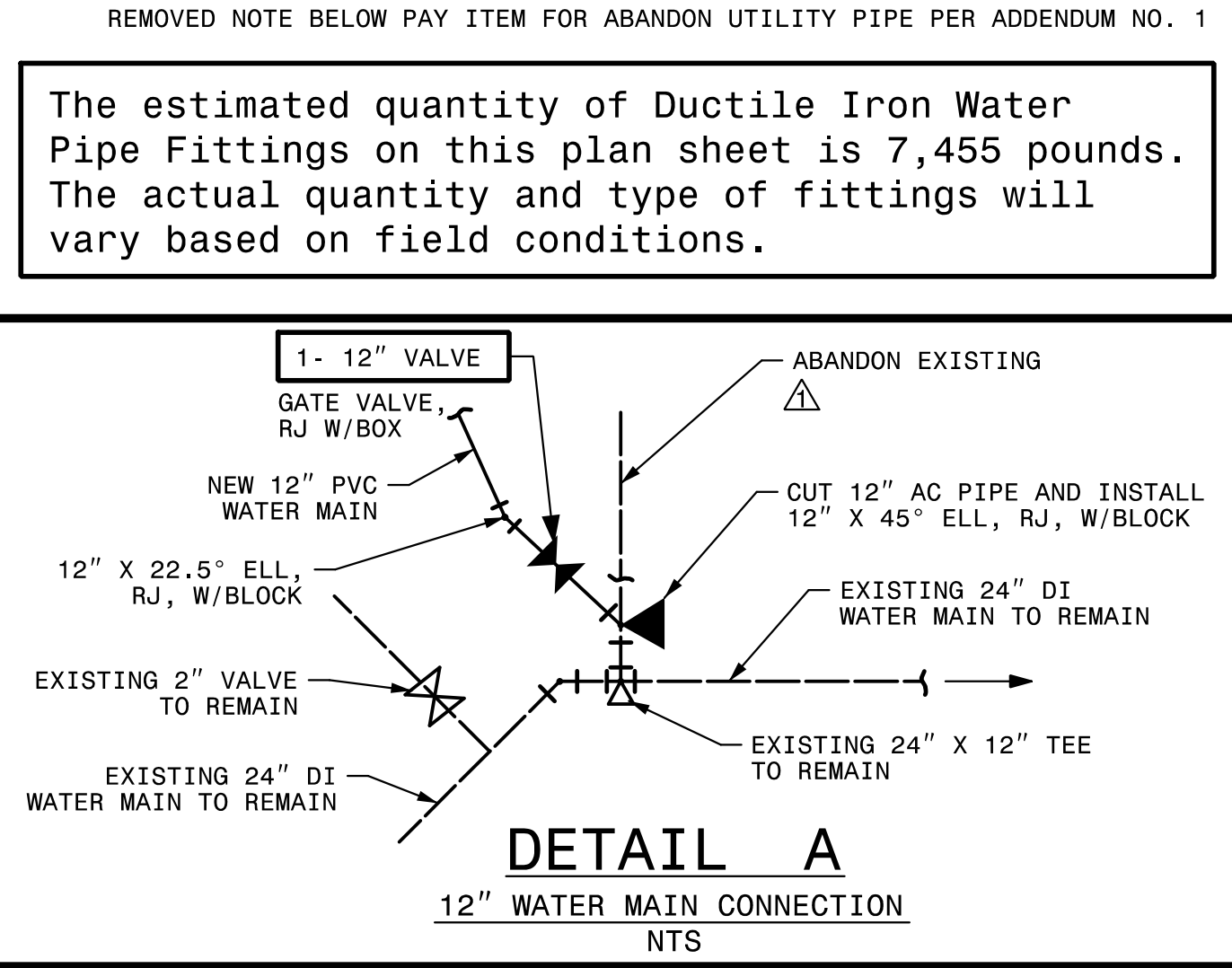
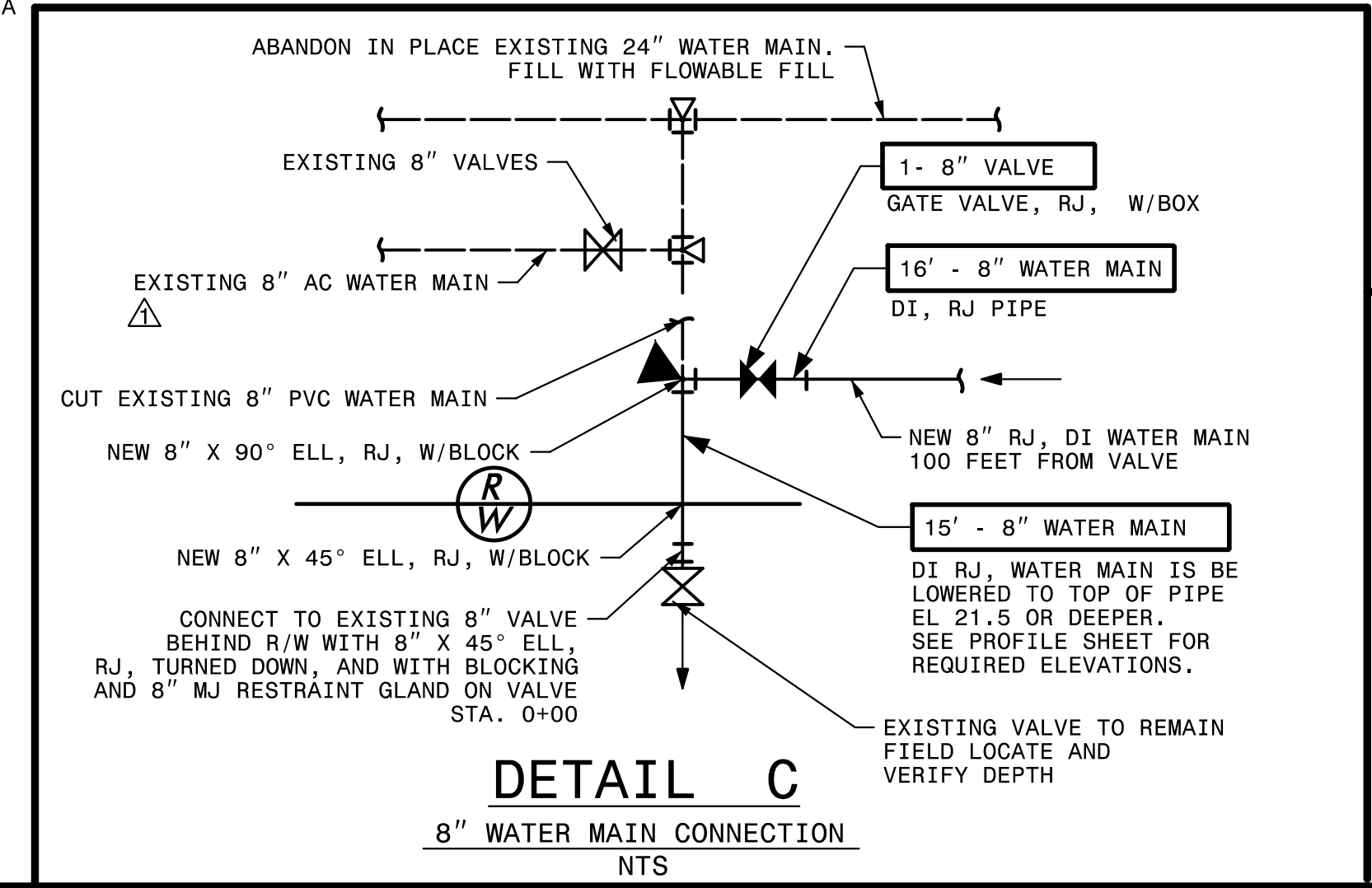
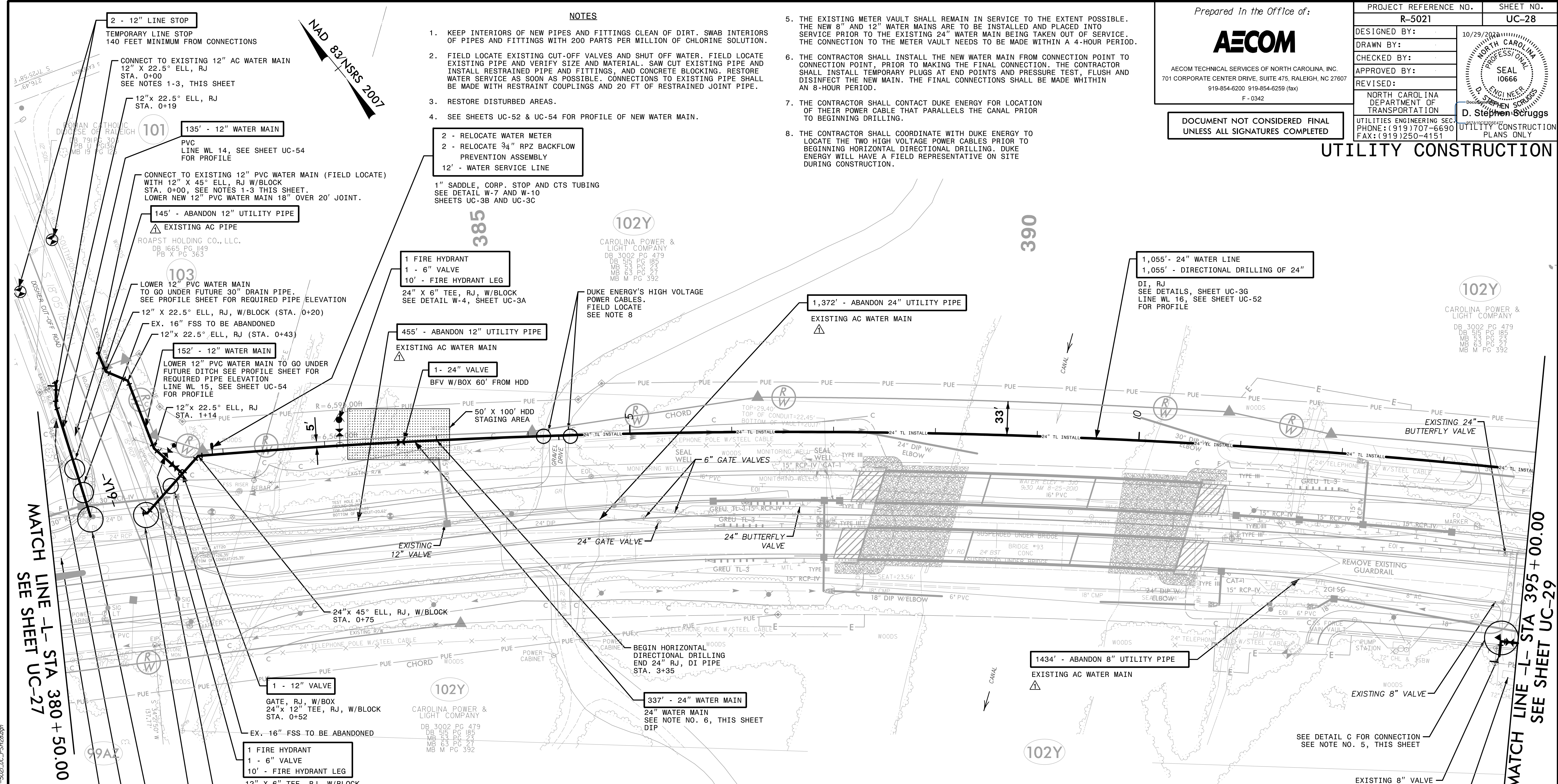
AECOM TECHNICAL SERVICES OF NORTH CAROLINA, INC.
701 CORPORATE CENTER DRIVE, SUITE 475, RALEIGH, NC 27607
919-854-6200 919-854-6259 (fax)
F-0342

PROJECT REFERENCE NO.	R-5021	SHEET NO.	UC-28
DESIGNED BY:		10/29/2021	
DRAWN BY:			
CHECKED BY:			
APPROVED BY:			
REVISED:			
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION		SEAL 10666	
UTILITIES ENGINEERING SECTION		D. Stephen Scruggs	
PHONE: (919) 707-6690		UTILITIES CONSTRUCTION PLANS ONLY	
FAX: (919) 250-4151			

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UTILITY CONSTRUCTION

- NOTES**
- KEEP INTERIORS OF NEW PIPES AND FITTINGS CLEAN OF DIRT. SWAB INTERIORS OF PIPES AND FITTINGS WITH 200 PARTS PER MILLION OF CHLORINE SOLUTION.
 - FIELD LOCATE EXISTING CUT-OFF VALVES AND SHUT OFF WATER. FIELD LOCATE EXISTING PIPE AND VERIFY SIZE AND MATERIAL. SAW CUT EXISTING PIPE AND INSTALL RESTRAINED PIPE AND FITTINGS, AND CONCRETE BLOCKING. RESTORE WATER SERVICE AS SOON AS POSSIBLE. CONNECTIONS TO EXISTING PIPE SHALL BE MADE WITH RESTRAINT COUPLINGS AND 20 FT OF RESTRAINED JOINT PIPE.
 - RESTORE DISTURBED AREAS.
 - SEE SHEETS UC-52 & UC-54 FOR PROFILE OF NEW WATER MAIN.
 - THE EXISTING METER VAULT SHALL REMAIN IN SERVICE TO THE EXTENT POSSIBLE. THE NEW 8" AND 12" WATER MAINS ARE TO BE INSTALLED AND PLACED INTO SERVICE PRIOR TO THE EXISTING 24" WATER MAIN BEING TAKEN OUT OF SERVICE. THE CONNECTION TO THE METER VAULT NEEDS TO BE MADE WITHIN A 4-HOUR PERIOD.
 - THE CONTRACTOR SHALL INSTALL THE NEW WATER MAIN FROM CONNECTION POINT TO CONNECTION POINT, PRIOR TO MAKING THE FINAL CONNECTION. THE CONTRACTOR SHALL INSTALL TEMPORARY PLUGS AT END POINTS AND PRESSURE TEST, FLUSH AND DISINFECT THE NEW MAIN. THE FINAL CONNECTIONS SHALL BE MADE WITHIN AN 8-HOUR PERIOD.
 - THE CONTRACTOR SHALL CONTACT DUKE ENERGY FOR LOCATION OF THEIR POWER CABLE THAT PARALLELS THE CANAL PRIOR TO BEGINNING DRILLING.
 - THE CONTRACTOR SHALL COORDINATE WITH DUKE ENERGY TO LOCATE THE TWO HIGH VOLTAGE POWER CABLES PRIOR TO BEGINNING HORIZONTAL DIRECTIONAL DRILLING. DUKE ENERGY WILL HAVE A FIELD REPRESENTATIVE ON SITE DURING CONSTRUCTION.



REMOVED NOTE BELOW PAY ITEM FOR ABANDON UTILITY PIPE PER ADDENDUM NO. 1

The estimated quantity of Ductile Iron Water Pipe Fittings on this plan sheet is 7,455 pounds. The actual quantity and type of fittings will vary based on field conditions.

DATE: 10/08/2021
TIME: 4:25:52 PM
DGN: Z:\Voleigh\USFALTY\Utility\Projects\60428203\900_MerA\915_UTILITY CONSTRUCTION\2021_REV\1010\SVR-5021_UC_F51128.dgn

NOTES

- SEE SHEET UC-52 FOR PROFILE OF NEW WATER MAIN
- FIELD LOCATE EXISTING WATER MAIN AND VERIFY SIZE AND MATERIAL. INSTALL NEW WATER MAIN UNDER EXISTING IN ORDER TO KEEP EXISTING WATER MAIN IN SERVICE UNTIL THE CONNECTIONS CAN BE MADE.
- WATER SERVICE TO THE METER VAULT SHOWN ON SHEET C-025 NEEDS TO REMAIN IN SERVICE TO THE EXTENT POSSIBLE. THE NEW 8" AND 12" SUPPLY MAINS NEED TO BE INSTALLED AND PLACED INTO SERVICE PRIOR TO TAKING THE 24" WATER MAIN OUT OF SERVICE.
- INSTALL THE TEMPORARY 24" LINE STOP PRIOR TO MAKING THE CONNECTION BETWEEN THE NEW AND EXISTING 24" WATER MAINS. THE LINE STOP IS TO BE CLOSED WHILE THE CONNECTION IS BEING MADE AND REMOVED AFTERWARDS.

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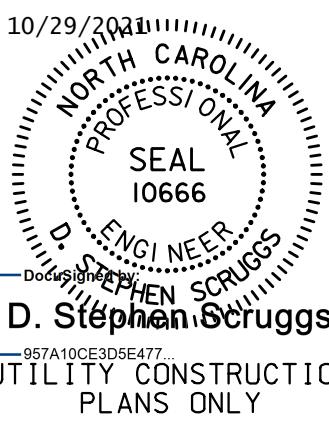


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919-854-6200 919-854-6259 (fax)
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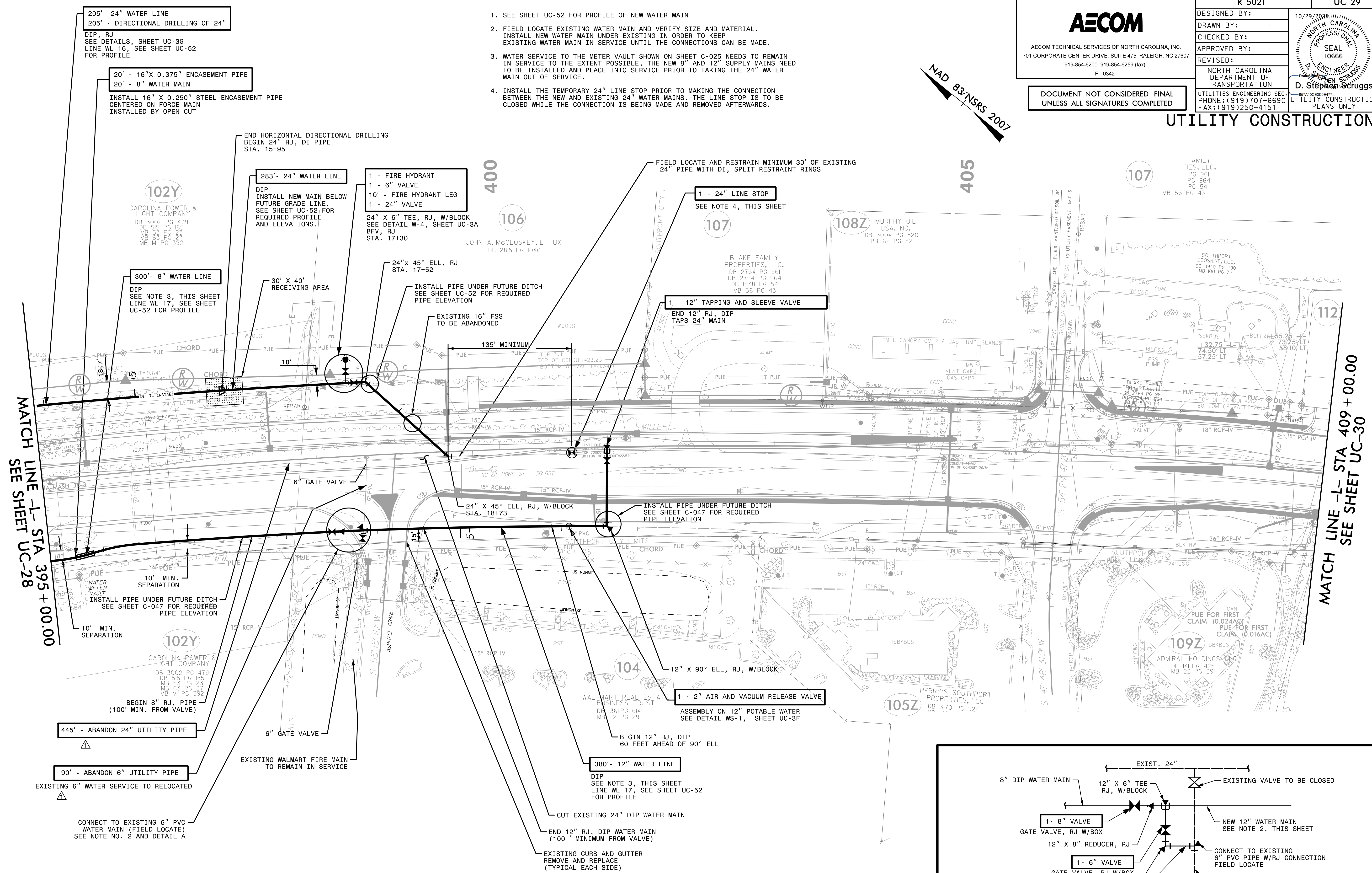
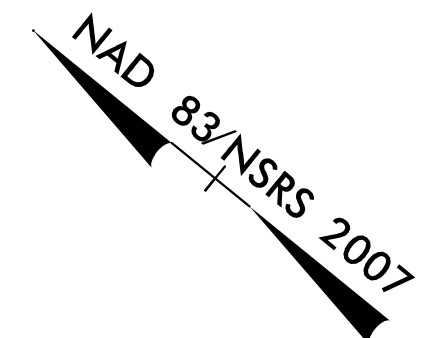
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PROJECT REFERENCE NO. R-5021 SHEET NO. UC-29

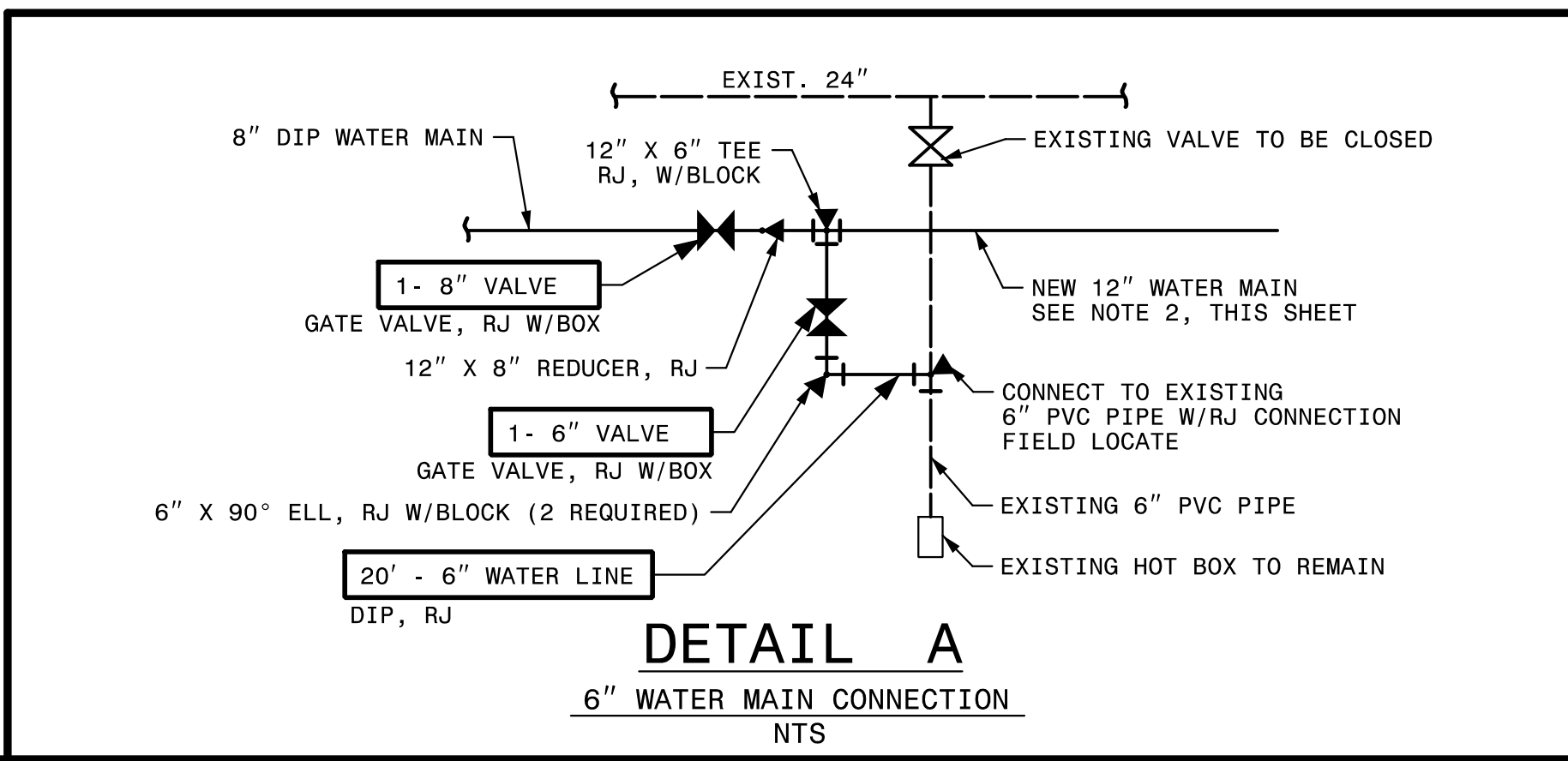
DESIGNED BY:	10/29/2021
DRAWN BY:	
CHECKED BY:	
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REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SECTION PHONE: (919) 707-6690 FAX: (919) 250-4151	



UTILITY CONSTRUCTION



The estimated quantity of Ductile Iron Water Pipe Fittings on this plan sheet is 4,165 pounds. The actual quantity and type of fittings will vary based on field conditions.



REMOVED NOTE BELOW PAY ITEM FOR ABANDON UTILITY PIPE PER ADDENDUM NO. 1

DATE: 10/18/2021
TIME: 4:31:52 PM
DGN: ZV\slight\USFAL3\Legacy\Projects\60428203\900_MerA\916_UTILITY Construction\2021_REV\1010\SVR-5021_UC_F51182.dgn

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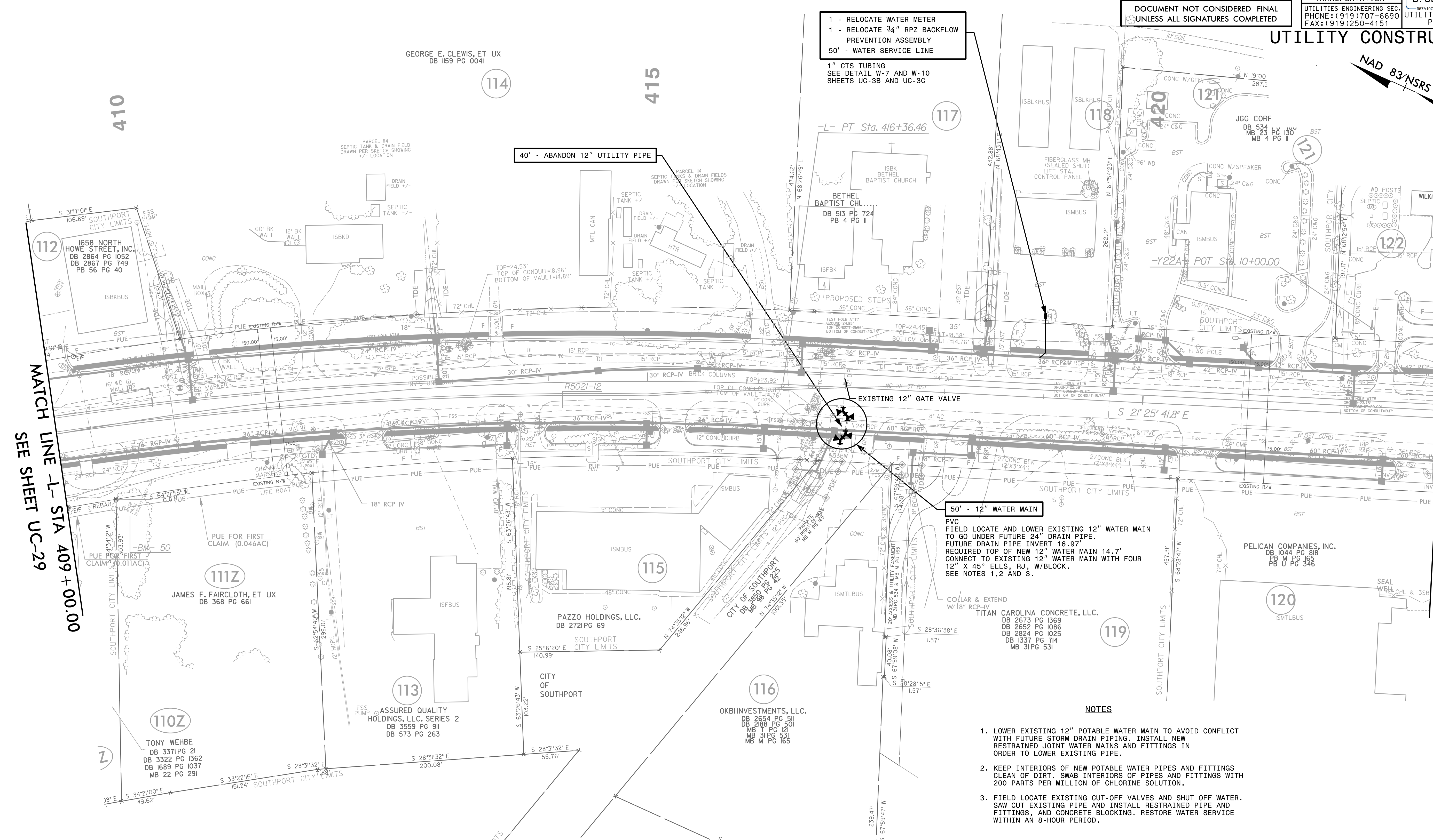
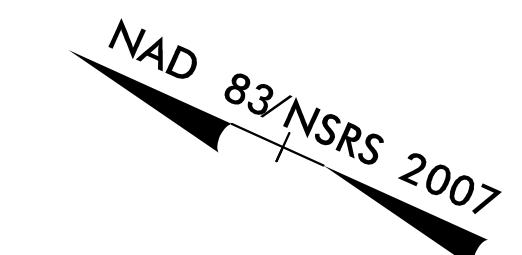


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919-854-6200 919-854-6259 (fax)
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PROJECT REFERENCE NO.	R-5021	SHEET NO.	UC-30
DESIGNED BY:		DATE:	9/9/2021
DRAWN BY:			
CHECKED BY:			
APPROVED BY:			
REVISED:			
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION		SEAL 10666	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151		D. Stephen Scroggs	
		UTILITY CONSTRUCTION PLANS ONLY	

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UTILITY CONSTRUCTION



MATCH LINE -L- STA 409+00.00
SEE SHEET UC-29

MATCH LINE -L- STA 423+00.00
SEE SHEET UC-31

- NOTES**
1. LOWER EXISTING 12" POTABLE WATER MAIN TO AVOID CONFLICT WITH FUTURE STORM DRAIN PIPING. INSTALL NEW RESTRAINED JOINT WATER MAINS AND FITTINGS IN ORDER TO LOWER EXISTING PIPE.
 2. KEEP INTERIORS OF NEW POTABLE WATER PIPES AND FITTINGS CLEAN OF DIRT. SWAB INTERIORS OF PIPES AND FITTINGS WITH 200 PARTS PER MILLION OF CHLORINE SOLUTION.
 3. FIELD LOCATE EXISTING CUT-OFF VALVES AND SHUT OFF WATER. SAW CUT EXISTING PIPE AND INSTALL RESTRAINED PIPE AND FITTINGS. AND CONCRETE BLOCKING. RESTORE WATER SERVICE WITHIN AN 8-HOUR PERIOD.

The estimated quantity of Ductile Iron Water Pipe Fittings on this plan sheet is 860 pounds. The actual quantity and type of fittings will vary based on field conditions.

DATE: 8/16/2021
TIME: 9:04:54 PM
DGN: P:\04042603\000_Works\Utility_Construction\5021_UC_P5130.dgn

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F - 0342

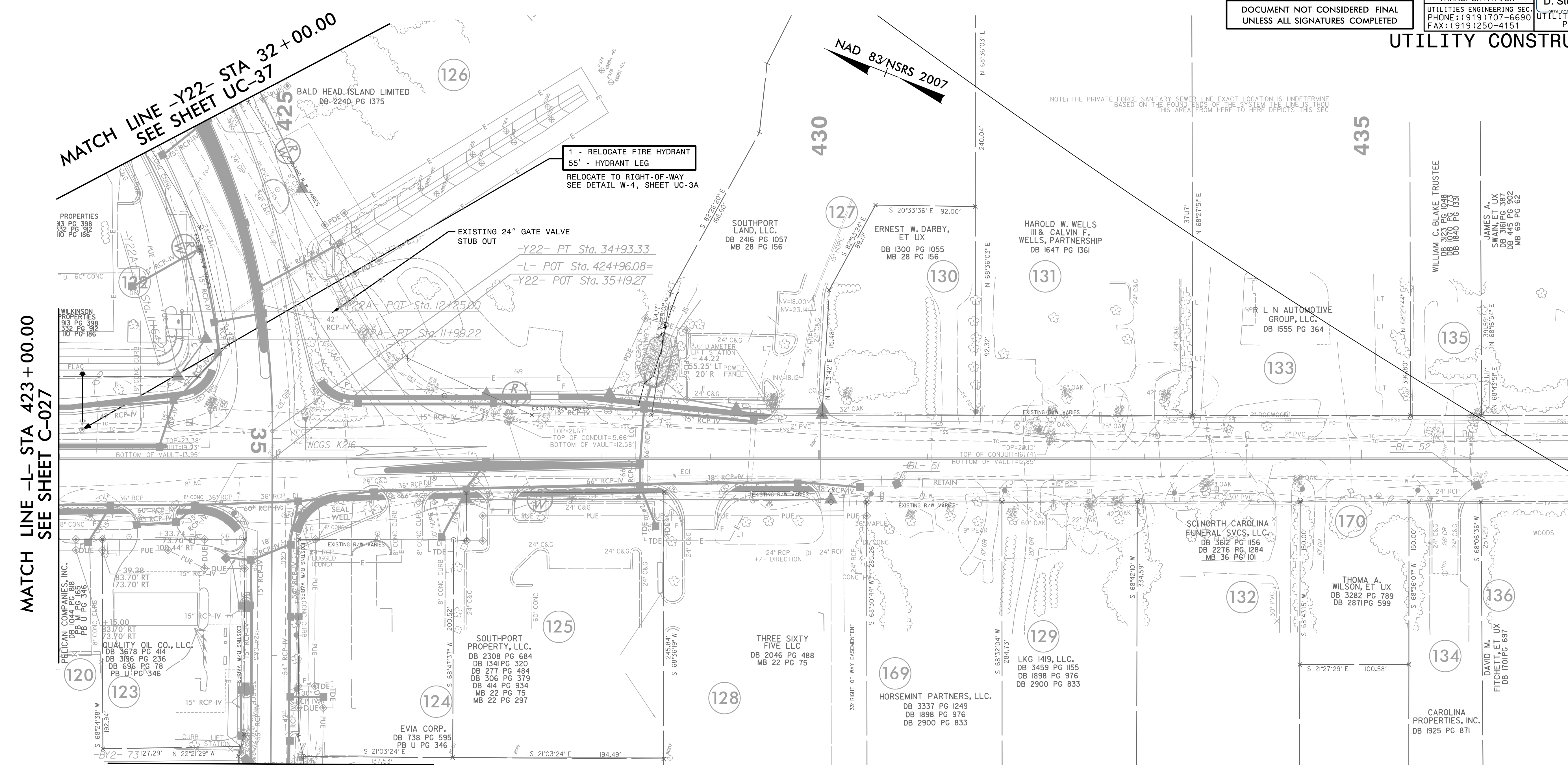
PROJECT REFERENCE NO. R-5021	SHEET NO. UC-31
DESIGNED BY:	9/9/2011
DRAWN BY:	NORTH CAROLINA PROFESSIONAL SEAL 10666
CHECKED BY:	
APPROVED BY:	D. Stephen Scruggs
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	

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NOTES

- KEEP INTERIORS OF NEW PIPES AND FITTINGS CLEAN OF DIRT. SWAB INTERIORS OF PIPES AND FITTINGS WITH 200 PARTS PER MILLION OF CHLORINE SOLUTION.
- RESTORE DISTURBED AREAS.



MATCH LINE -L- STA 423+00.00
SEE SHEET C-027

MATCH LINE -Y22- STA 32+00.00
SEE SHEET UC-37

NO UTILITY RELOCATION

NO UTILITY RELOCATION

DATE: 8/16/2011
TIME: 9:05:13 PM
DGN: P:\040428203\000_Works\915_Limby_Construction\NF-5021_UC_P5131.dgn

NOTES

- SEE SHEET UC-57 AND UC-53 FOR PROFILE OF NEW WATER MAIN, AND SHEET UC-53 FOR SEWER.
- CONTRACTOR SHALL INSTALL NEW PIPE FROM CONNECTION POINT TO CONNECTION POINT. PRIOR TO MAKING THE FINAL CONNECTIONS, THE CONTRACTOR SHALL INSTALL TEMPORARY PLUGS AT EACH POINT AND THEN PRESSURE TEST, FLUSH AND DISINFECT THE NEW MAIN.

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AECOM

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PROJECT REFERENCE NO. R-5021 SHEET NO. UC-32

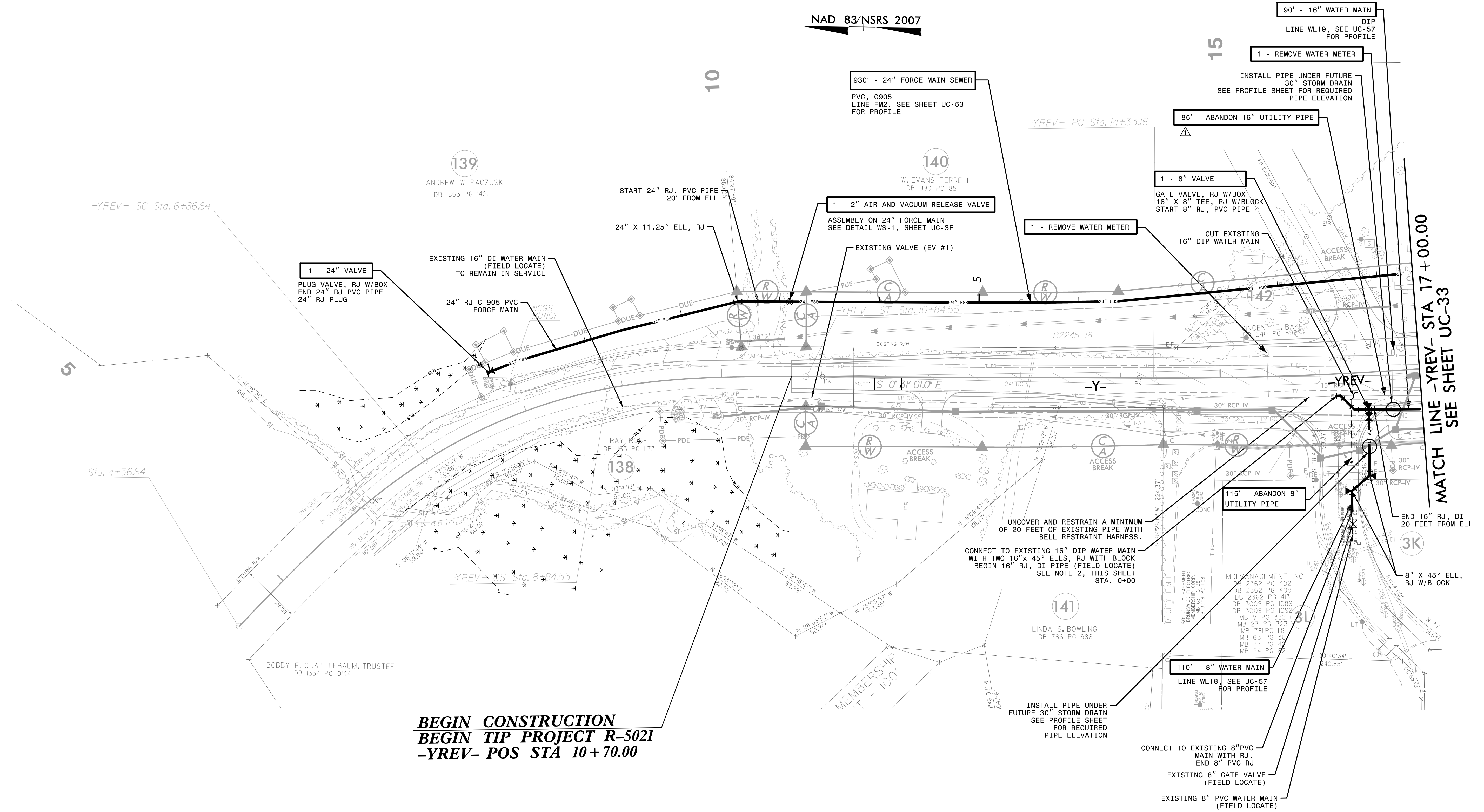
DESIGNED BY: 10/29/2021
DRAWN BY:
CHECKED BY:
APPROVED BY:
REVISED:

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
UTILITIES ENGINEERING SEC.
PHONE: (919) 707-6690
FAX: (919) 250-4151

SEAL 10666
D. Stephen Scruggs
REGISTERED PROFESSIONAL ENGINEER
EXPIRES 12/31/2024
UTILITIES CONSTRUCTION PLANS ONLY

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UTILITY CONSTRUCTION



BEGIN CONSTRUCTION
BEGIN TIP PROJECT R-5021
-YREV- POS STA 10+70.00

The estimated quantity of Ductile Iron Sewer Pipe Fittings on this plan sheet is 984 pounds. The actual quantity and type of fittings will vary based on field conditions.

The estimated quantity of Ductile Iron Water Pipe Fittings on this plan sheet is 1,780 pounds. The actual quantity and type of fittings will vary based on field conditions.

▲ REMOVED NOTE BELOW PAY ITEM FOR ABANDON UTILITY PIPE PER ADDENDUM NO. 1

DATE: 10/19/2021
TIME: 9:55:17 AM
DGN: Z:\Projects\Utility Construction\2021_R-5021\UC-32.dgn

MATCH LINE -YREV- STA 17+00.00
SEE SHEET UC-33

NOTES
1. SEE SHEET UC-57 FOR PROFILE OF NEW WATER MAIN AND SHEET UC-53 FOR SEWER.

The estimated quantity of Ductile Iron Sewer Pipe Fittings on this plan sheet is 7,465 pounds. The actual quantity and type of fittings will vary based on field conditions.

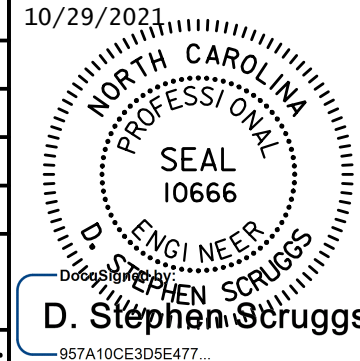
The estimated quantity of Ductile Iron Water Pipe Fittings on this plan sheet is 3,740 pounds. The actual quantity and type of fittings will vary based on field conditions.

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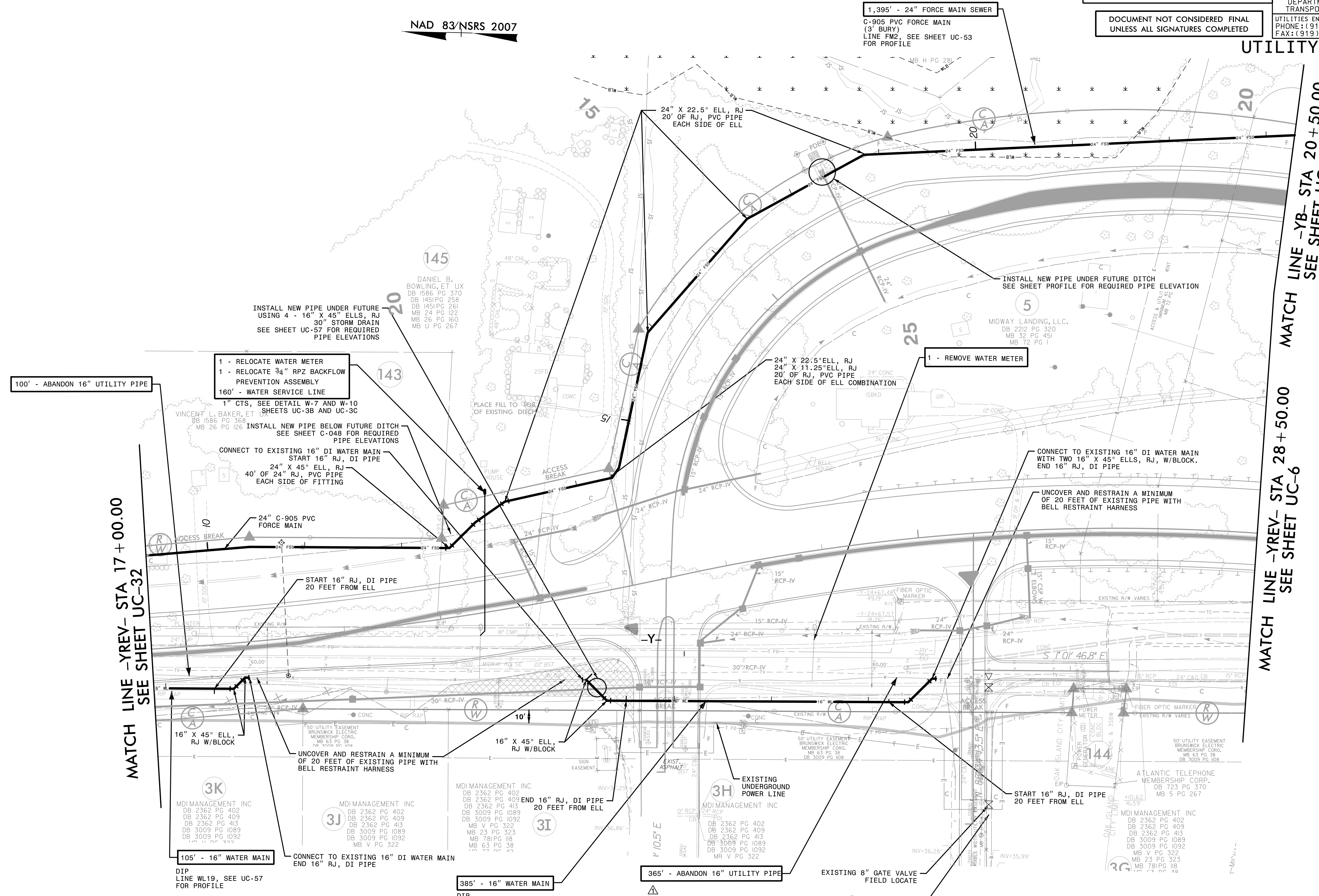
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PROJECT REFERENCE NO.	SHEET NO.
R-5021	UC-33
DESIGNED BY:	10/29/2021
DRAWN BY:	
CHECKED BY:	
APPROVED BY:	
REVISED:	
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UTILITY CONSTRUCTION



100' - ABANDON 16" UTILITY PIPE

1 - RELOCATE WATER METER
1 - RELOCATE 3/4" RPZ BACKFLOW PREVENTION ASSEMBLY
160' - WATER SERVICE LINE

INSTALL NEW PIPE UNDER FUTURE USING 4 - 16" X 45" ELLS, RJ 30" STORM DRAIN SEE SHEET UC-57 FOR REQUIRED PIPE ELEVATIONS

1" CTS, SEE DETAIL W-7 AND W-10 (SHEETS UC-3B AND UC-3C)
INSTALL NEW PIPE BELOW FUTURE DITCH SEE SHEET C-048 FOR REQUIRED PIPE ELEVATIONS

CONNECT TO EXISTING 16" DI WATER MAIN START 16" RJ, DI PIPE 40' OF 24" RJ, PVC PIPE EACH SIDE OF FITTING

24" C-905 PVC FORCE MAIN

START 16" RJ, DI PIPE 20 FEET FROM ELL

16" X 45" ELL, RJ W/BLOCK

UNCOVER AND RESTRAIN A MINIMUM OF 20 FEET OF EXISTING PIPE WITH BELL RESTRAINT HARNESS

105' - 16" WATER MAIN
DIP LINE WL19, SEE UC-57 FOR PROFILE

CONNECT TO EXISTING 16" DI WATER MAIN END 16" RJ, DI PIPE

385' - 16" WATER MAIN
DIP LINE WL20, SEE UC-57 FOR PROFILE

365' - ABANDON 16" UTILITY PIPE

EXISTING 8" GATE VALVE FIELD LOCATE
EXISTING 8" PVC WATER MAIN FIELD LOCATE

1,395' - 24" FORCE MAIN SEWER
C-905 PVC FORCE MAIN (3' BURY)
LINE FM2, SEE SHEET UC-53 FOR PROFILE

24" X 22.5" ELL, RJ
20' OF RJ, PVC PIPE EACH SIDE OF ELL

24" X 22.5" ELL, RJ
24" X 11.25" ELL, RJ
20' OF RJ, PVC PIPE EACH SIDE OF ELL COMBINATION

1 - REMOVE WATER METER

INSTALL NEW PIPE UNDER FUTURE DITCH SEE SHEET PROFILE FOR REQUIRED PIPE ELEVATION

MIDWAY LANDING, LLC.
DB 222 PG 320
MB 32 PG 451
MB 72 PG 1

CONNECT TO EXISTING 16" DI WATER MAIN WITH TWO 16" X 45" ELLS, RJ, W/BLOCK. END 16" RJ, DI PIPE

UNCOVER AND RESTRAIN A MINIMUM OF 20 FEET OF EXISTING PIPE WITH BELL RESTRAINT HARNESS

START 16" RJ, DI PIPE 20 FEET FROM ELL

ATLANTIC TELEPHONE MEMBERSHIP CORP.
DB 723 PG 370
MB 5 PG 267

MDI MANAGEMENT INC
DB 2362 PG 402
DB 2362 PG 409
DB 2362 PG 413
DB 3009 PG 1089
DB 3009 PG 1092
MB V PG 322
MB 23 PG 323
MB 79 PG 118

DATE: 10/19/2021
TIME: 10:50:56 AM
DB: Z:\Projects\UTILITY\Projects\60428203\900_MerA\916_Utility Construction\2021_REV\REVISED\UC-33.dgn

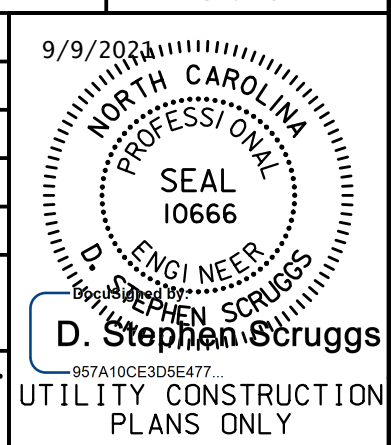
REMOVED NOTE BELOW PAY ITEM FOR ABANDON UTILITY PIPE PER ADDENDUM NO. 1

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PROJECT REFERENCE NO.	R-5021	SHEET NO.	UC-34
DESIGNED BY:		DATE:	9/9/2007
DRAWN BY:		SEAL:	10666
CHECKED BY:		APPROVED BY:	
REVISED:		REVISIONS:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION		UTILITY ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	

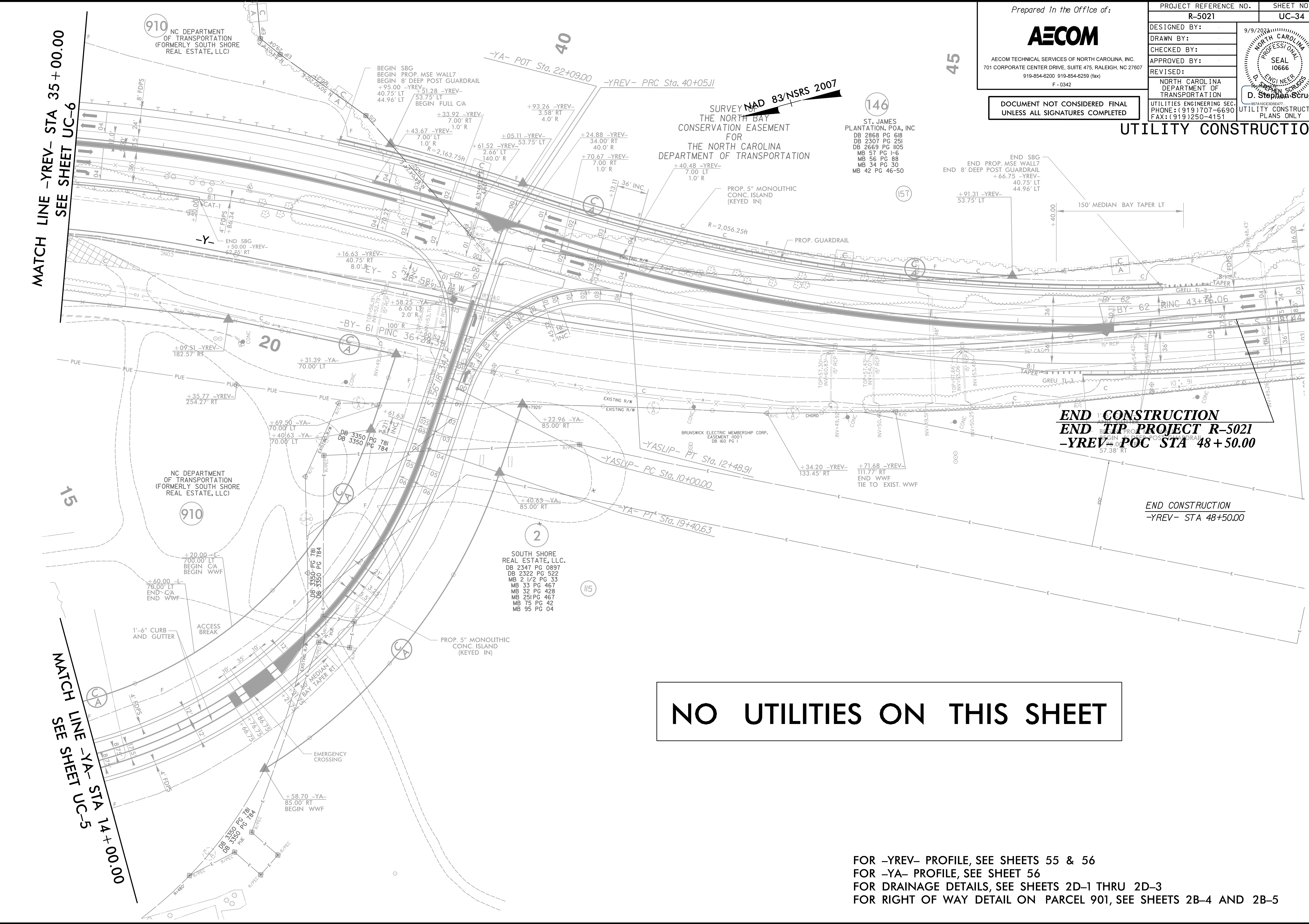


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UTILITY CONSTRUCTION

MATCH LINE -YREV- STA 35+00.00
SEE SHEET UC-6

MATCH LINE -YA- STA 14+00.00
SEE SHEET UC-5



END CONSTRUCTION
END TIP PROJECT R-5021
-YREV- POC STA 48+50.00

END CONSTRUCTION
-YREV- STA 48+50.00

NO UTILITIES ON THIS SHEET

FOR -YREV- PROFILE, SEE SHEETS 55 & 56
FOR -YA- PROFILE, SEE SHEET 56
FOR DRAINAGE DETAILS, SEE SHEETS 2D-1 THRU 2D-3
FOR RIGHT OF WAY DETAIL ON PARCEL 901, SEE SHEETS 2B-4 AND 2B-5

DATE: 8/13/2007
TIME: 10:39:19 AM
C:\Users\jcruggs\Documents\Projects\R-5021\Utility Construction\UC-34.dgn

NOTES

1. SEE SHEET UC-54 FOR PROFILE OF NEW WATER MAIN.

Prepared In the Office of:

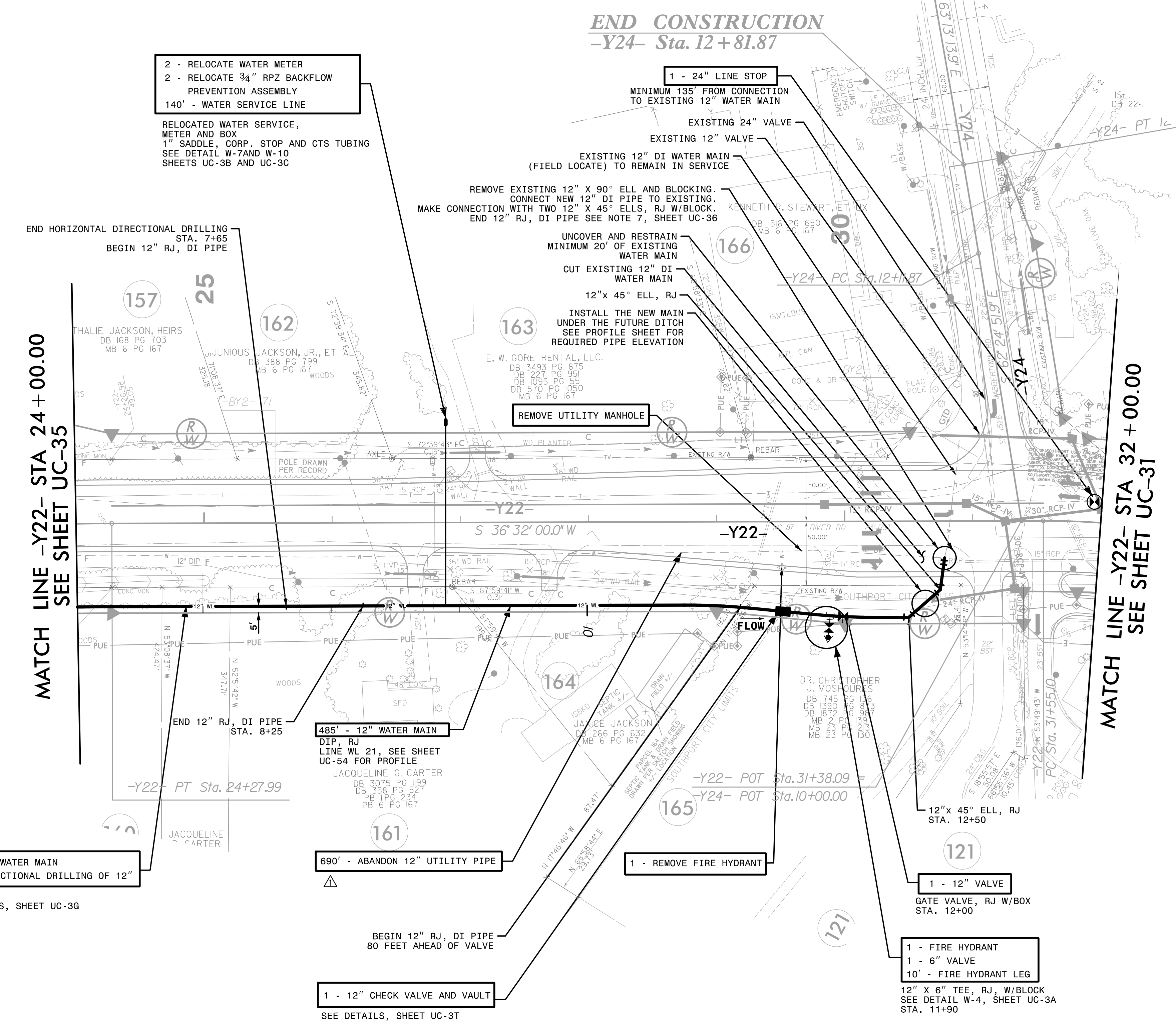
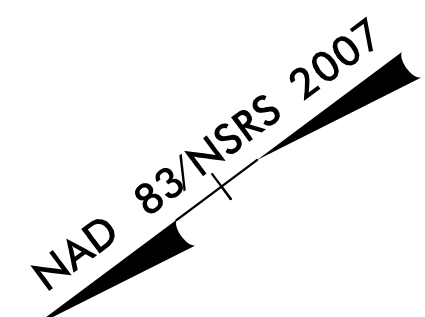


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PROJECT REFERENCE NO.	SHEET NO.
R-5021	UC-36
DESIGNED BY:	
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APPROVED BY:	
REVISED:	NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151

UTILITY CONSTRUCTION



2 - RELOCATE WATER METER
 2 - RELOCATE 3/4" RPZ BACKFLOW PREVENTION ASSEMBLY
 140' - WATER SERVICE LINE

RELOCATED WATER SERVICE, METER AND BOX
 1" SADDLE, CORP. STOP AND CTS TUBING
 SEE DETAIL W-7 AND W-10
 SHEETS UC-3B AND UC-3C

1 - 24" LINE STOP
 MINIMUM 135' FROM CONNECTION TO EXISTING 12" WATER MAIN

EXISTING 24" VALVE
 EXISTING 12" VALVE
 EXISTING 12" DI WATER MAIN (FIELD LOCATE) TO REMAIN IN SERVICE

REMOVE EXISTING 12" X 90° ELL AND BLOCKING. CONNECT NEW 12" DI PIPE TO EXISTING. MAKE CONNECTION WITH TWO 12" X 45° ELLS, RJ W/BLOCK. END 12" RJ, DI PIPE SEE NOTE 7, SHEET UC-36

UNCOVER AND RESTRAIN MINIMUM 20' OF EXISTING WATER MAIN
 CUT EXISTING 12" DI WATER MAIN
 12"x 45° ELL, RJ
 INSTALL THE NEW MAIN UNDER THE FUTURE DITCH SEE PROFILE SHEET FOR REQUIRED PIPE ELEVATION

REMOVE UTILITY MANHOLE

END HORIZONTAL DIRECTIONAL DRILLING STA. 7+65
 BEGIN 12" RJ, DI PIPE

MATCH LINE -Y22- STA 24+00.00
 SEE SHEET UC-35

END 12" RJ, DI PIPE STA. 8+25
 -Y22- PT Sta. 24+27.99

485' - 12" WATER MAIN
 DIP, RJ
 LINE WL 21, SEE SHEET UC-54 FOR PROFILE
 JACQUELINE G. CARTER
 DB 3075 PG 1199
 DB 358 PG 527
 PB 1 PG 234
 PB 6 PG 167

165' - 12" WATER MAIN
 165' - DIRECTIONAL DRILLING OF 12"
 RJ, DIP
 SEE DETAILS, SHEET UC-3G

690' - ABANDON 12" UTILITY PIPE

1 - REMOVE FIRE HYDRANT

BEGIN 12" RJ, DI PIPE 80 FEET AHEAD OF VALVE

1 - 12" CHECK VALVE AND VAULT
 SEE DETAILS, SHEET UC-3T

1 - 12" VALVE
 GATE VALVE, RJ W/BOX STA. 12+00'

1 - FIRE HYDRANT
 1 - 6" VALVE
 10' - FIRE HYDRANT LEG
 12" X 6" TEE, RJ, W/BLOCK
 SEE DETAIL W-4, SHEET UC-3A STA. 11+90

REMOVED NOTE BELOW PAY ITEM FOR ABANDON UTILITY PIPE PER ADDENDUM NO. 1

The estimated quantity of Ductile Iron Water Pipe Fittings on this plan sheet is 1,185 pounds. The actual quantity and type of fittings will vary based on field conditions.

DATE: 10/19/2021
 TIME: 2:40:29 PM
 DGN: Z:\Projects\Utility Construction\2021\REV\1019\NAD-5021_UC-F5136.dgn

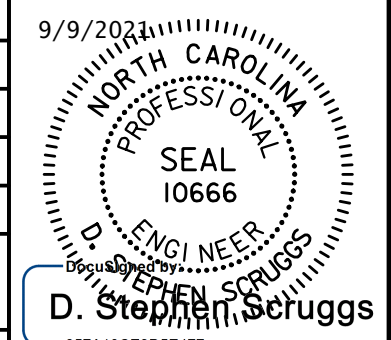
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PROJECT REFERENCE NO. R-5021 SHEET NO. UC-37

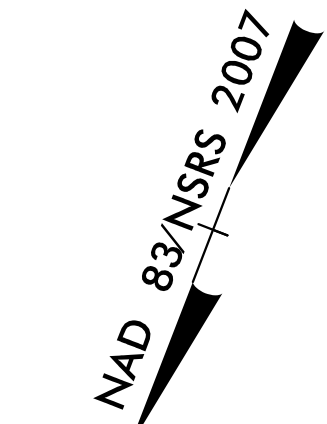
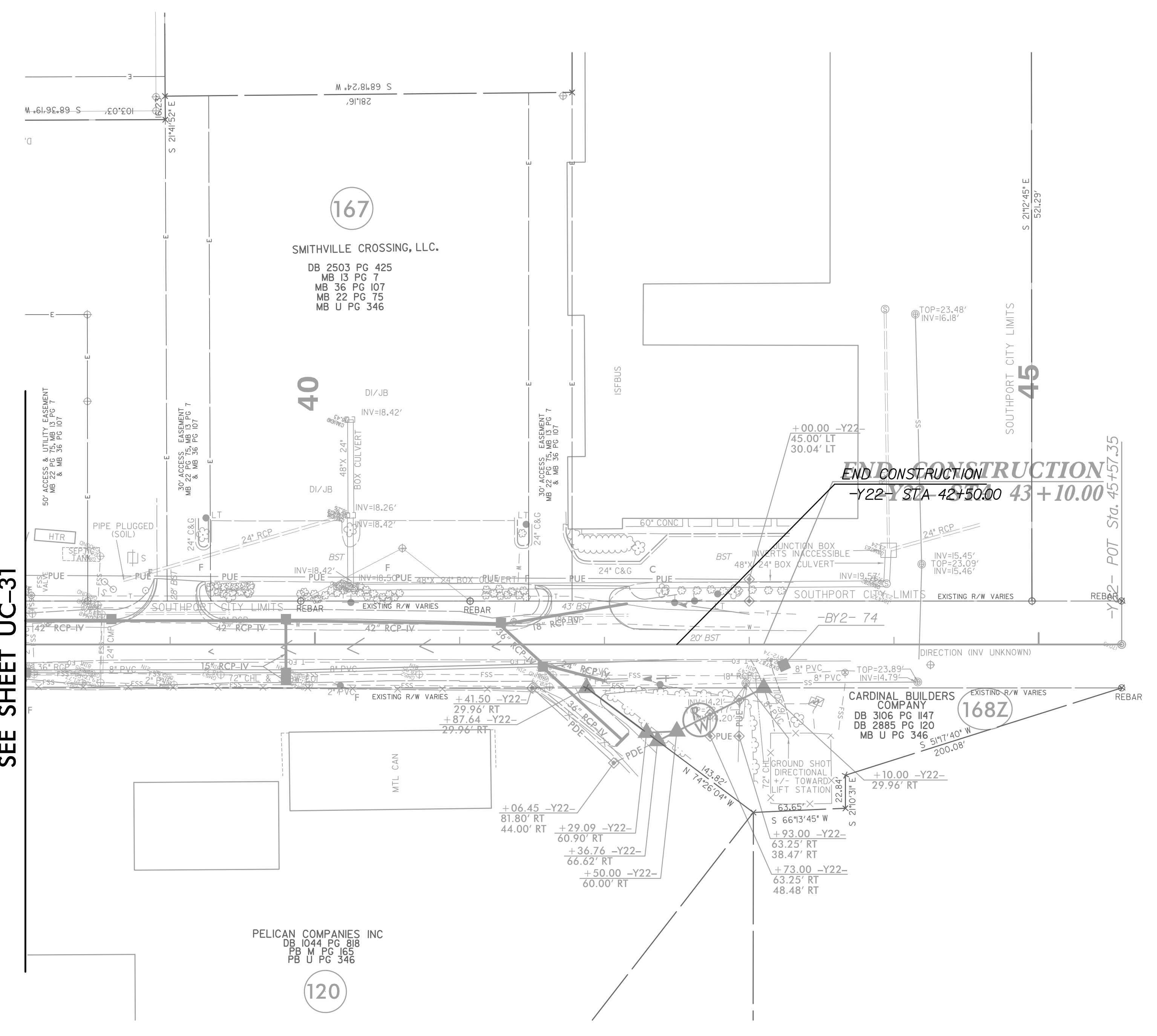
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UTILITY CONSTRUCTION

MATCH LINE -Y22- STA 38 + 00.00
SEE SHEET UC-31



NO UTILITIES ON THIS SHEET

DATE: 8/13/2007
TIME: 10:59 PM
DGN: P:\60482503\900_Work\916_Jiminy_Construction\5021_UC_P5H3T.dgn

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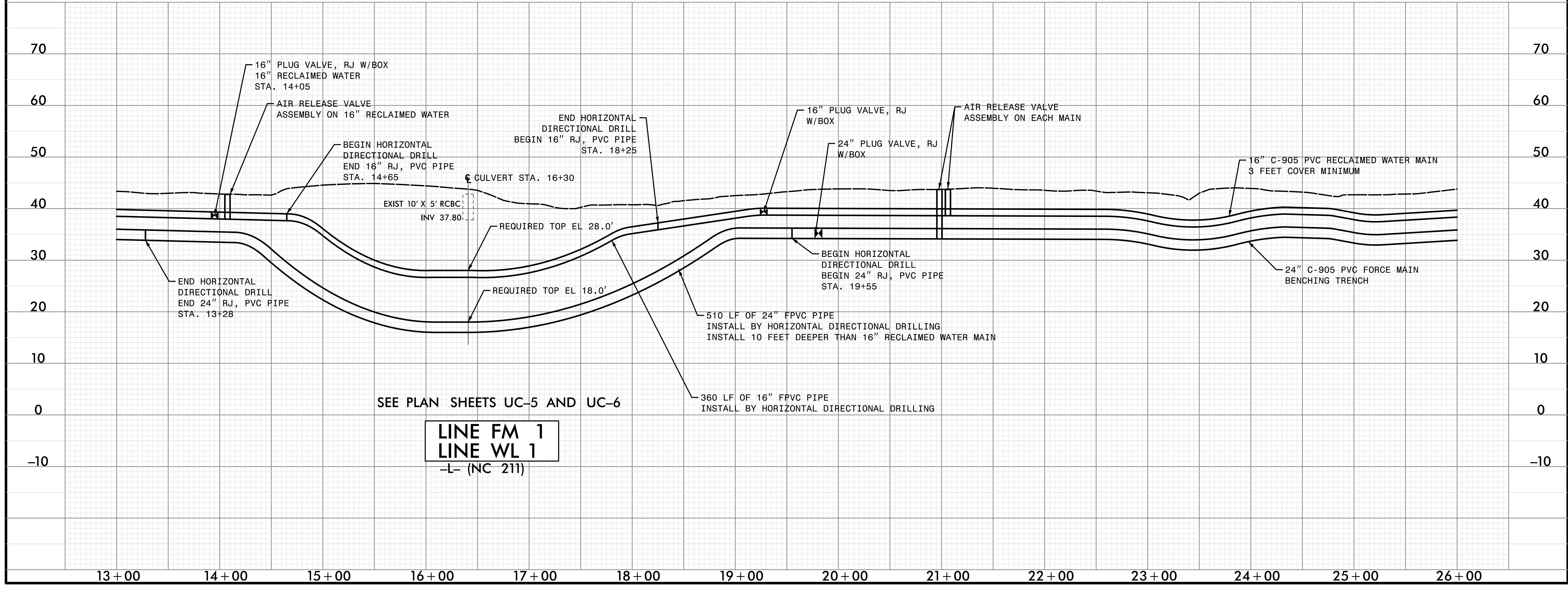
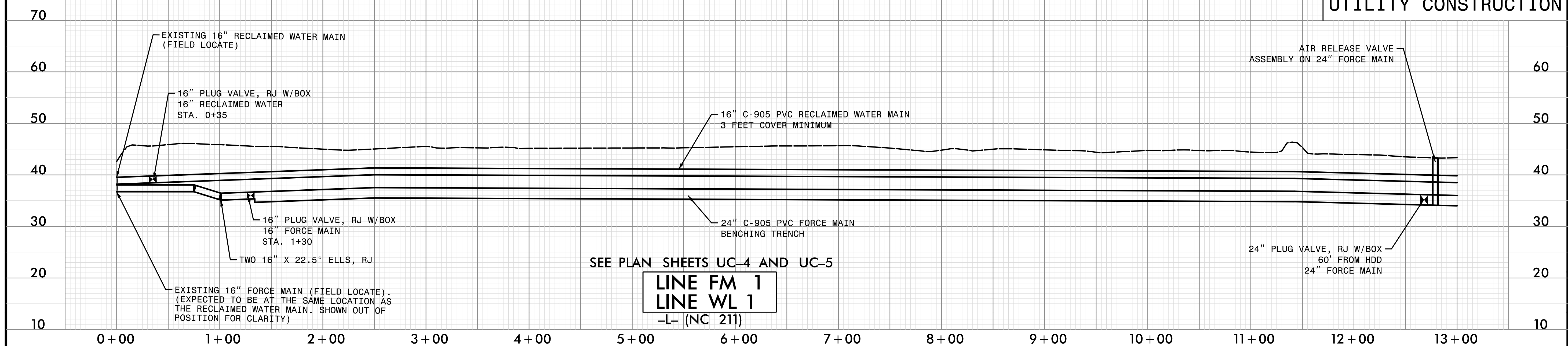
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PROJECT REFERENCE NO. R-5021	SHEET NO. UC-38
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D. Stephen Scruggs	

UTILITY CONSTRUCTION



DATE: 6/17/2002
TIME: 7:48:44 AM

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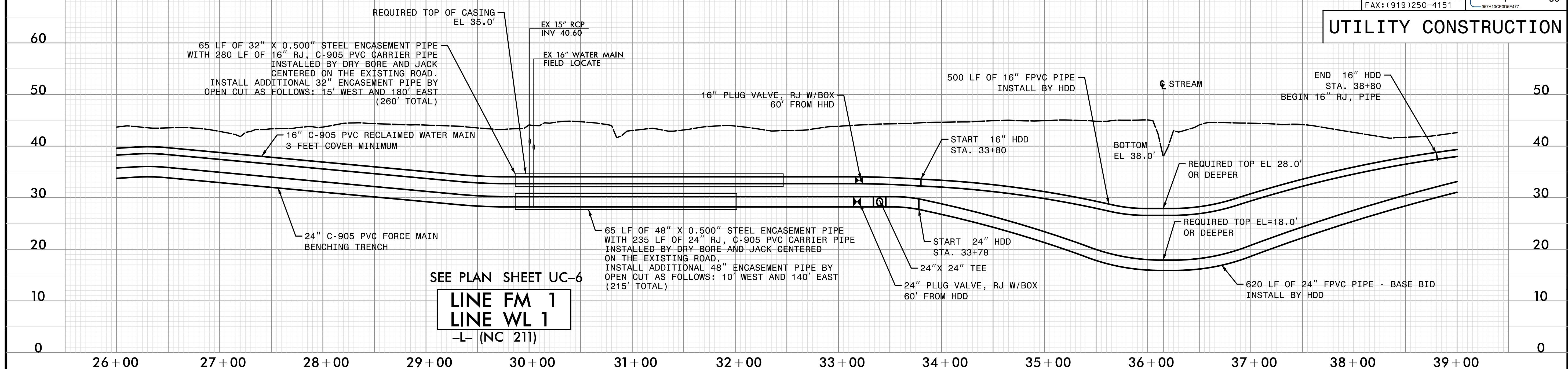
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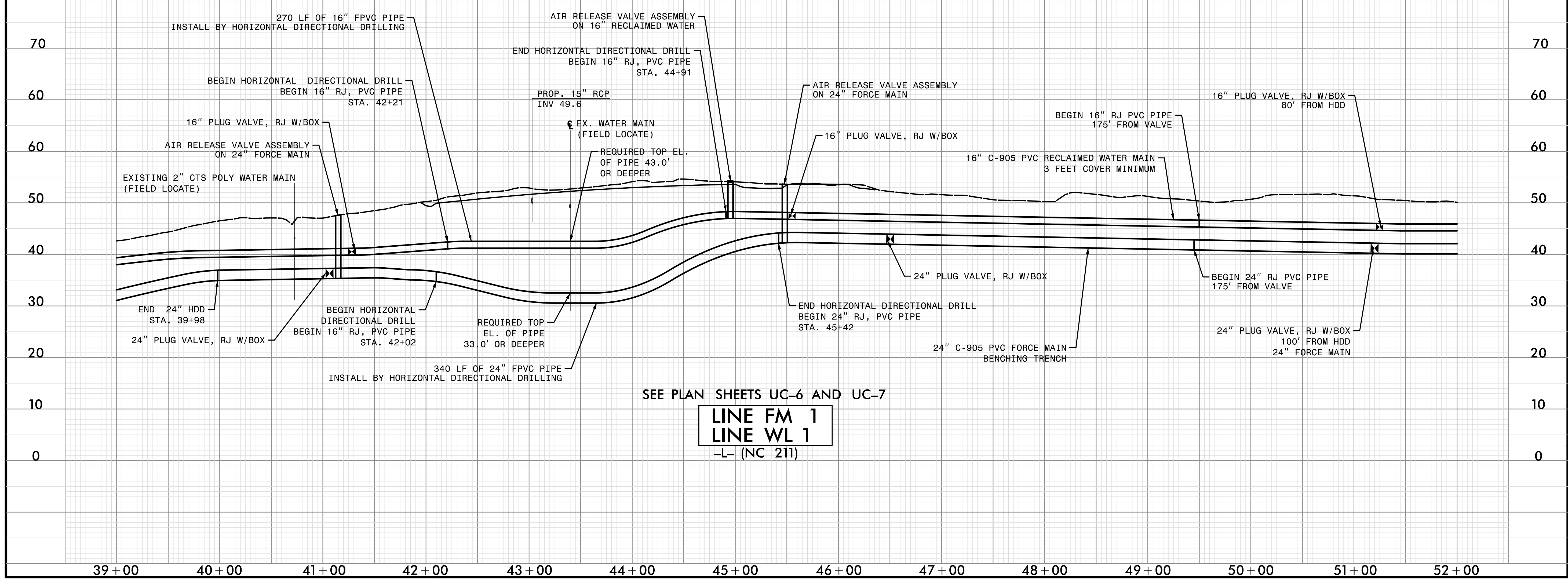
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PROJECT REFERENCE NO. R-5021	SHEET NO. UC-39
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D. Stephen Scruggs <small>957A10C30E477</small>	

UTILITY CONSTRUCTION



SEE PLAN SHEET UC-6
LINE FM 1
LINE WL 1
-L- (NC 211)



SEE PLAN SHEETS UC-6 AND UC-7
LINE FM 1
LINE WL 1
-L- (NC 211)

DATE: 6/21/2009
TIME: 4:28:23 PM

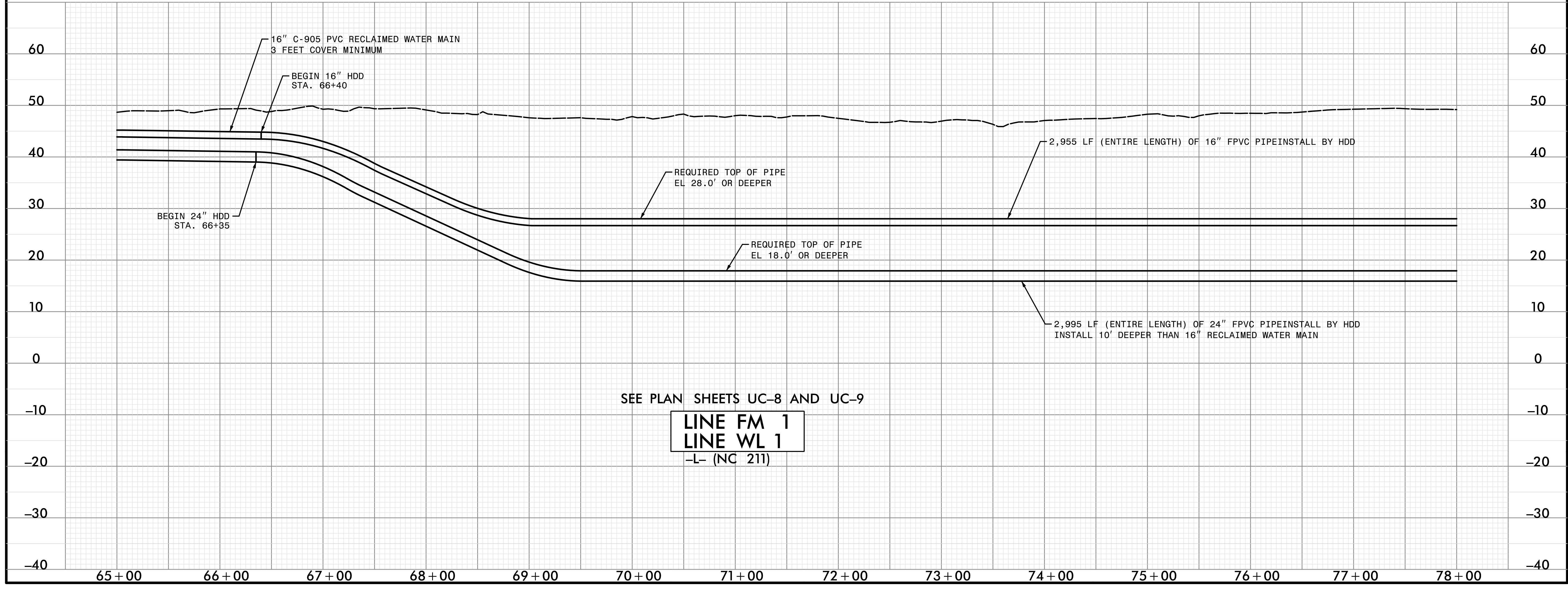
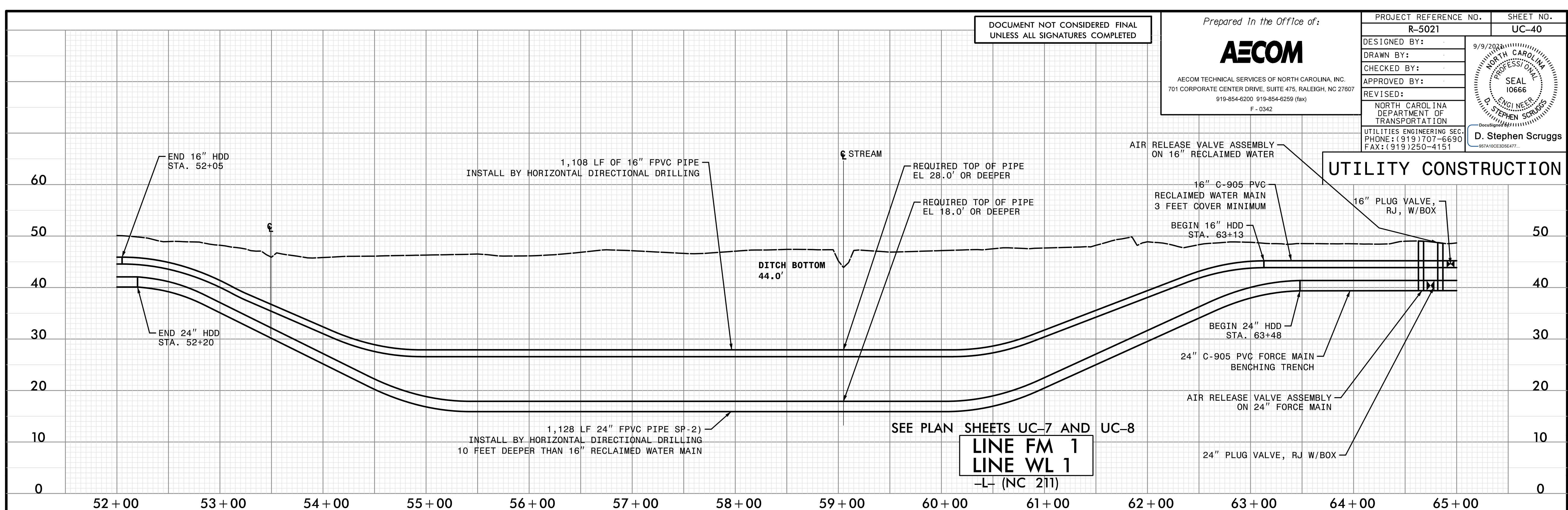
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PROJECT REFERENCE NO. R-5021	SHEET NO. UC-40
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9/9/2021 D. Stephen Scruggs <small>REGISTERED PROFESSIONAL ENGINEER</small>	



DATE: 8/13/2021
TIME: 10:46 PM

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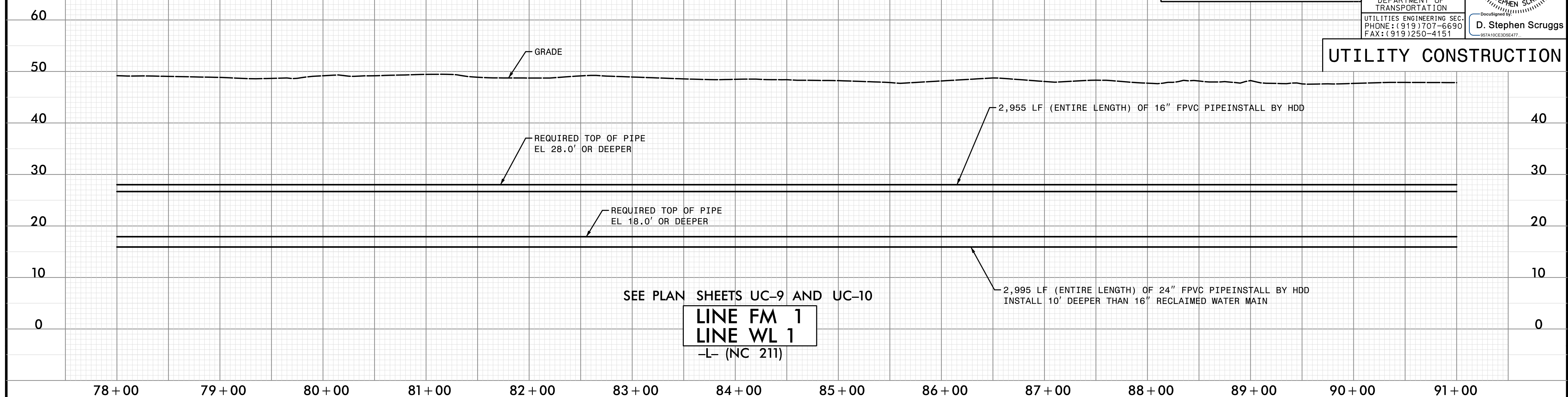
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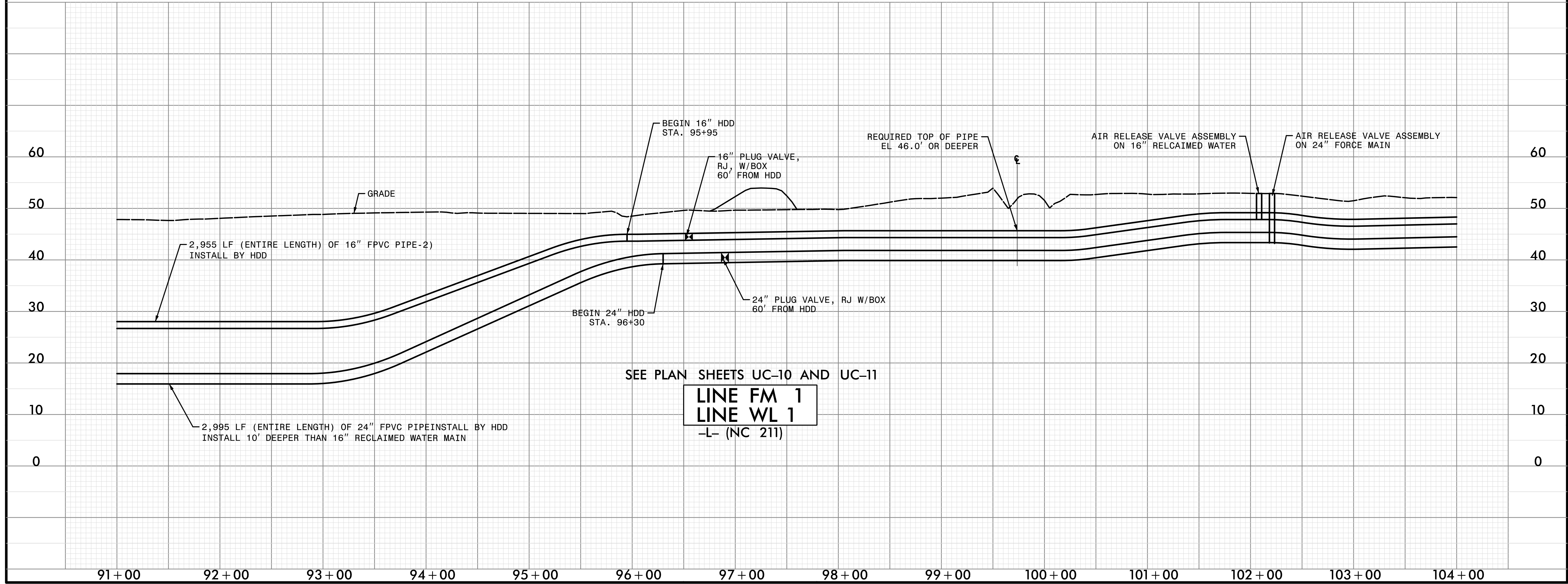
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PROJECT REFERENCE NO. R-5021	SHEET NO. UC-41
DESIGNED BY:	9/9/2021
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APPROVED BY:	
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D. Stephen Scruggs	

UTILITY CONSTRUCTION



SEE PLAN SHEETS UC-9 AND UC-10
LINE FM 1
LINE WL 1
-L- (NC 211)



SEE PLAN SHEETS UC-10 AND UC-11
LINE FM 1
LINE WL 1
-L- (NC 211)

DATE: 9/17/2021
TIME: 10:58 PM

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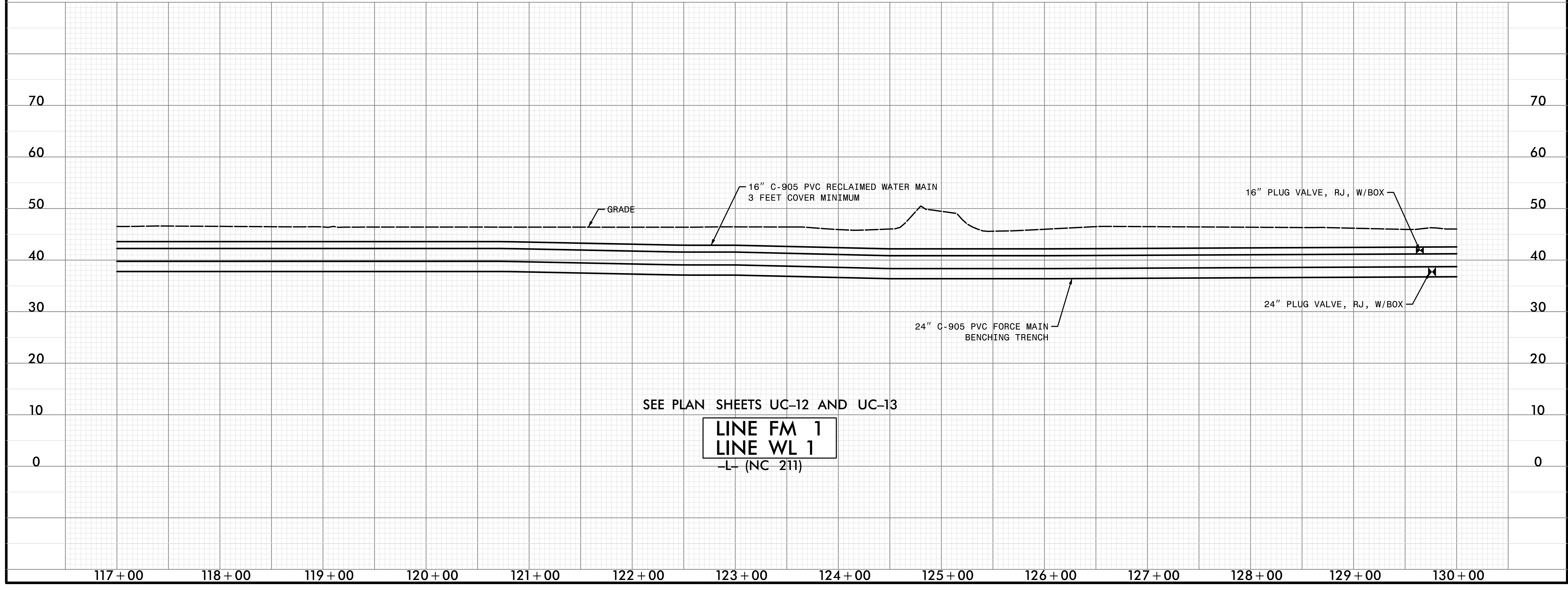
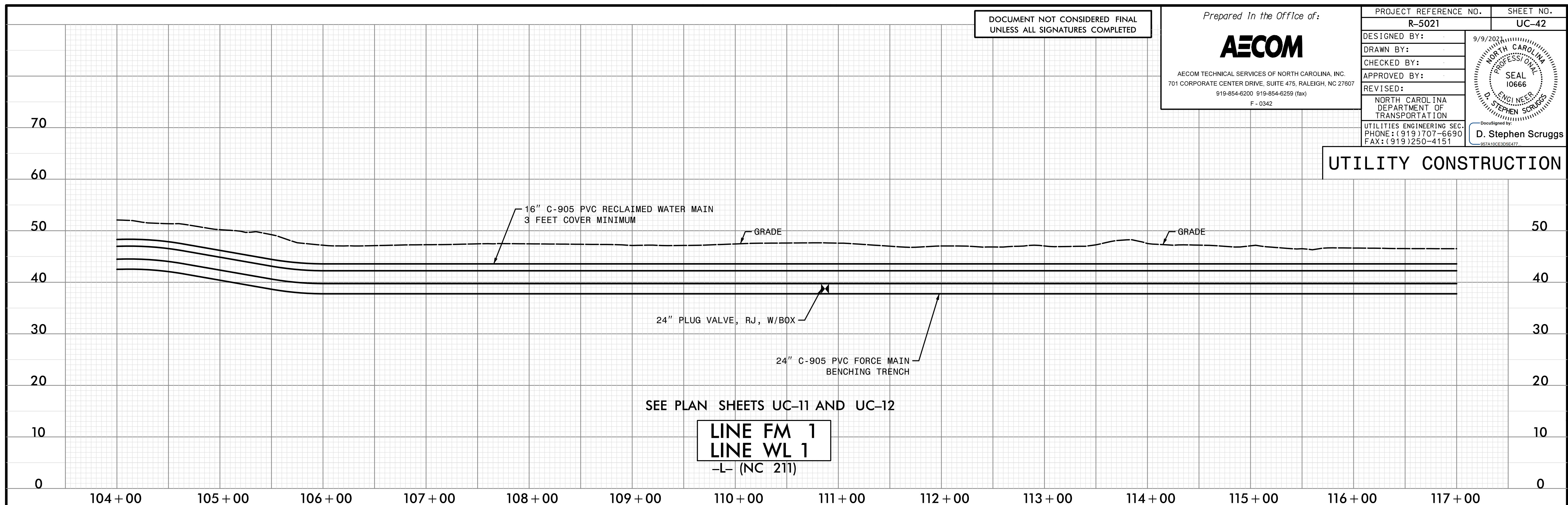
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PROJECT REFERENCE NO. R-5021	SHEET NO. UC-42
DESIGNED BY:	9/9/2021
DRAWN BY:	
CHECKED BY:	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
DocuSigned by: D. Stephen Scruggs 957A10CE305E477	

UTILITY CONSTRUCTION



DATE: 9/17/2021
TIME: 10:51 PM

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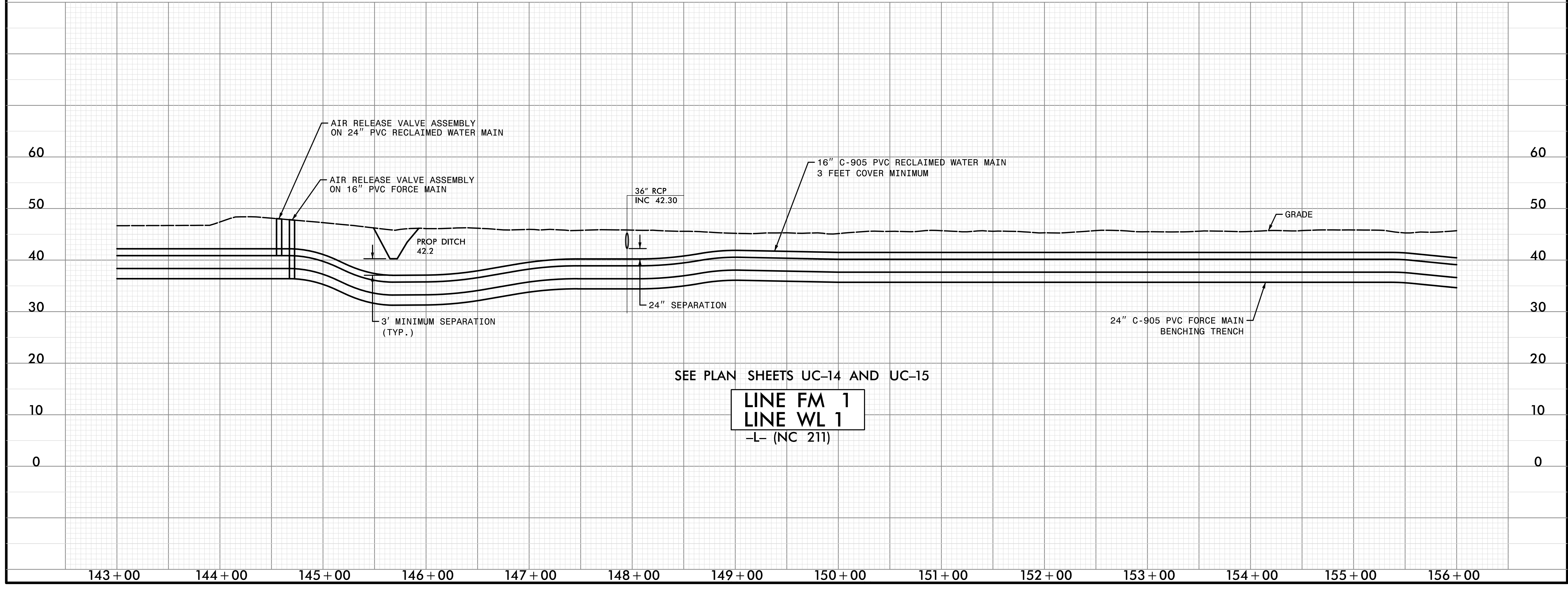
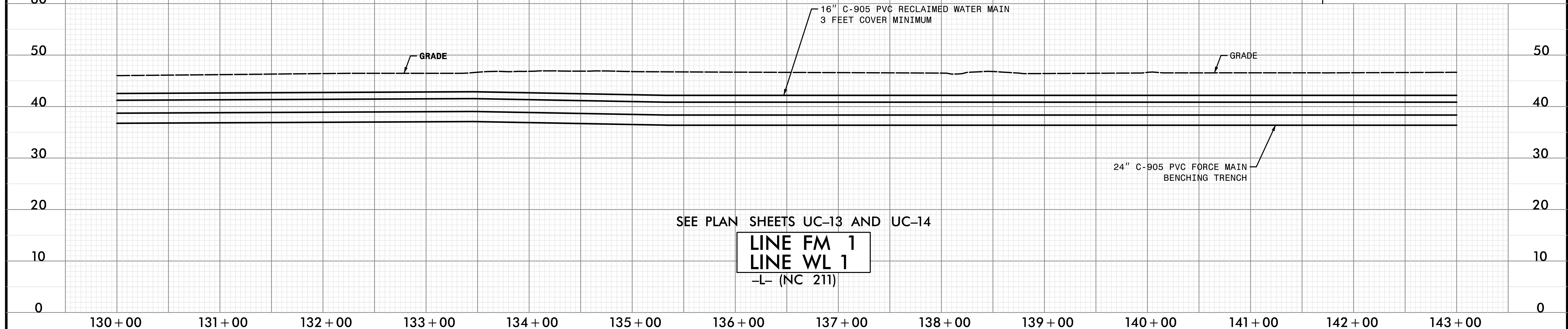
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PROJECT REFERENCE NO. R-5021	SHEET NO. UC-43
DESIGNED BY:	
DRAWN BY:	
CHECKED BY:	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
DocuSigned by: D. Stephen Scruggs 957A10CE3D6E477	

UTILITY CONSTRUCTION

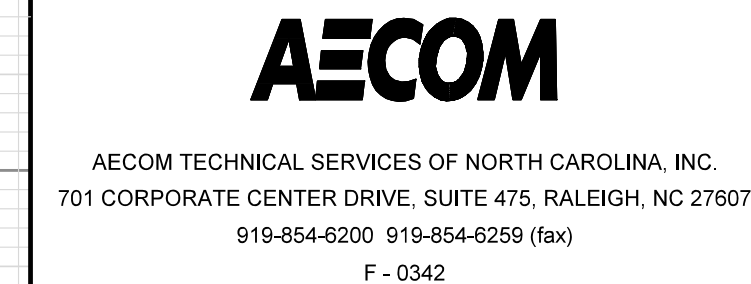


DATE: 07/17/2021
TIME: 10:32 PM

Designed by:
D. Stephen Scruggs

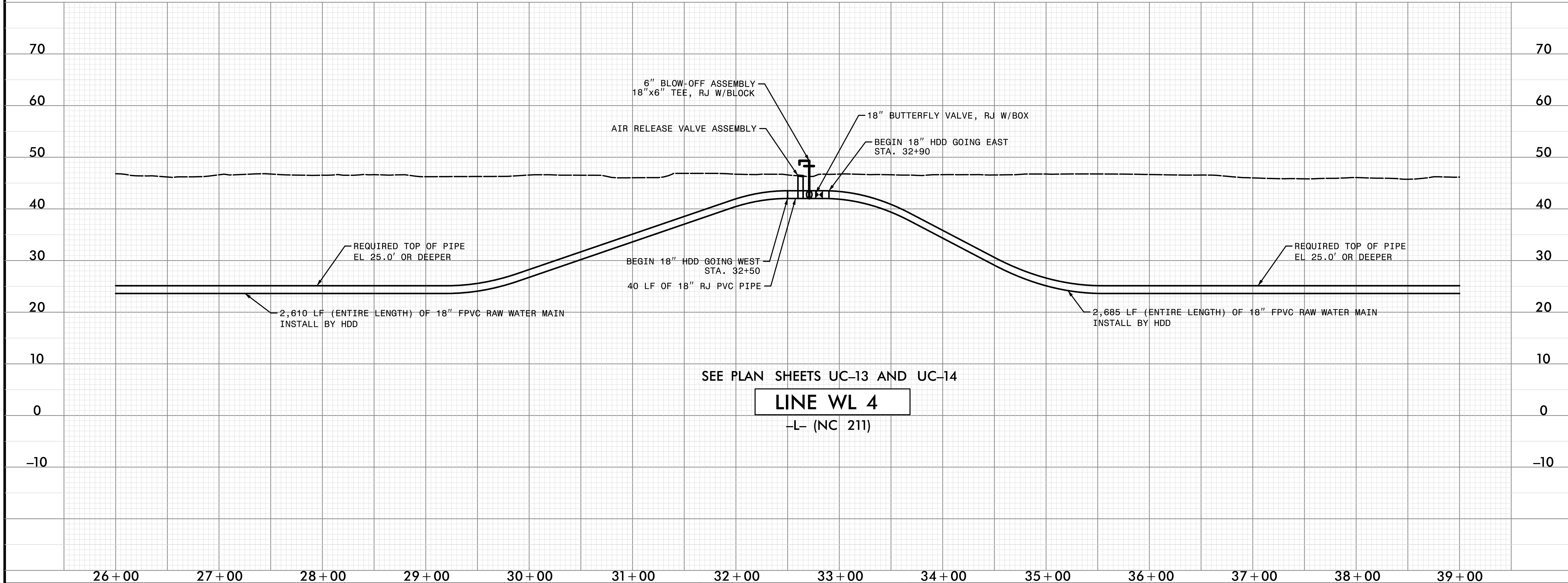
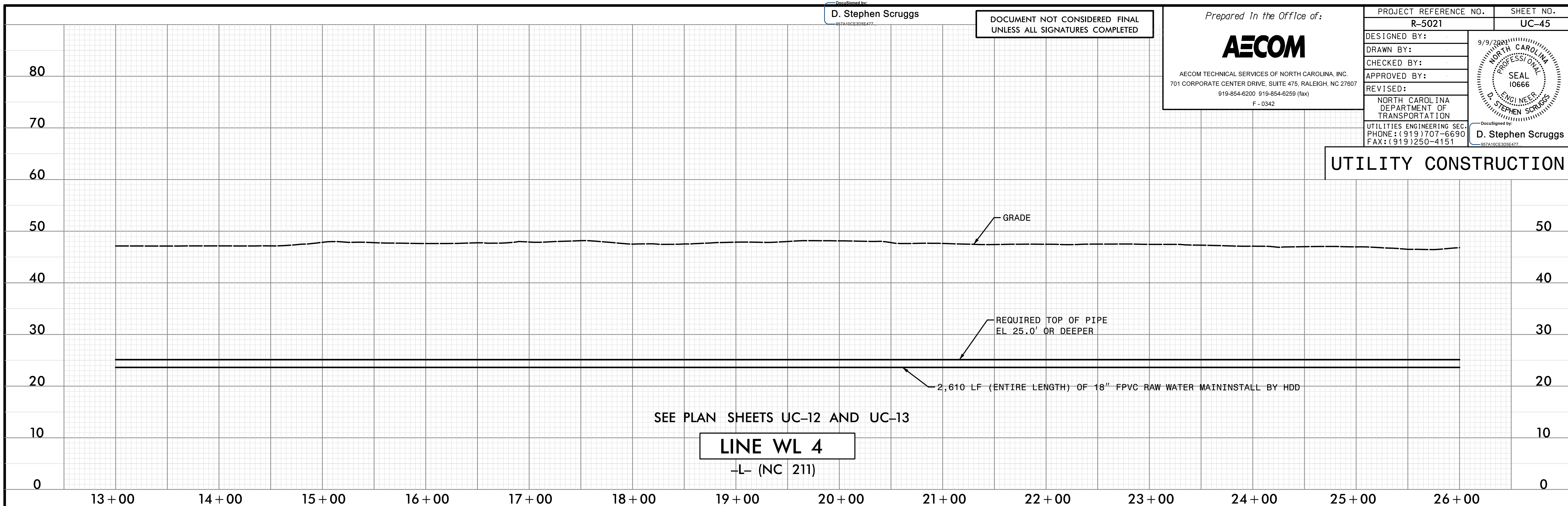
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PROJECT REFERENCE NO. R-5021	SHEET NO. UC-45
DESIGNED BY:	
DRAWN BY:	
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APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
DocuSigned by: D. Stephen Scruggs <small>927A10CE3D5E477</small>	

UTILITY CONSTRUCTION



DATE: 8/17/2021
TIME: 10:26 PM

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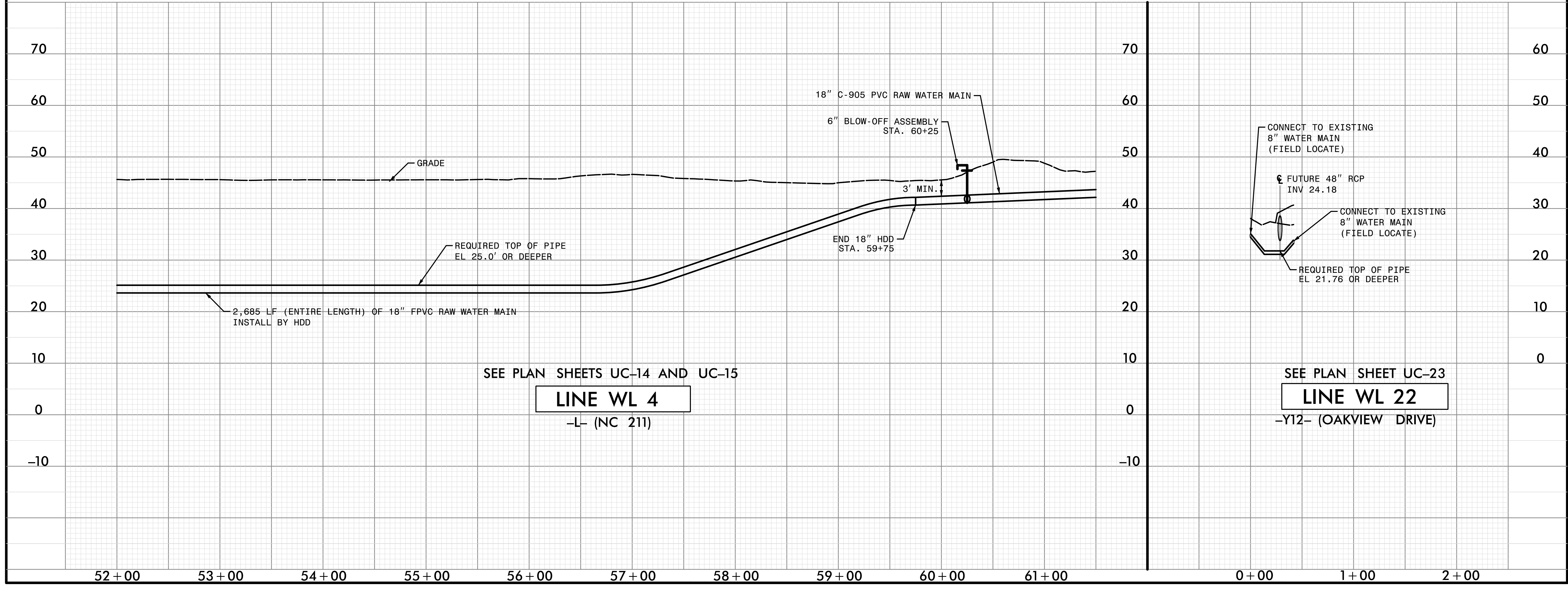
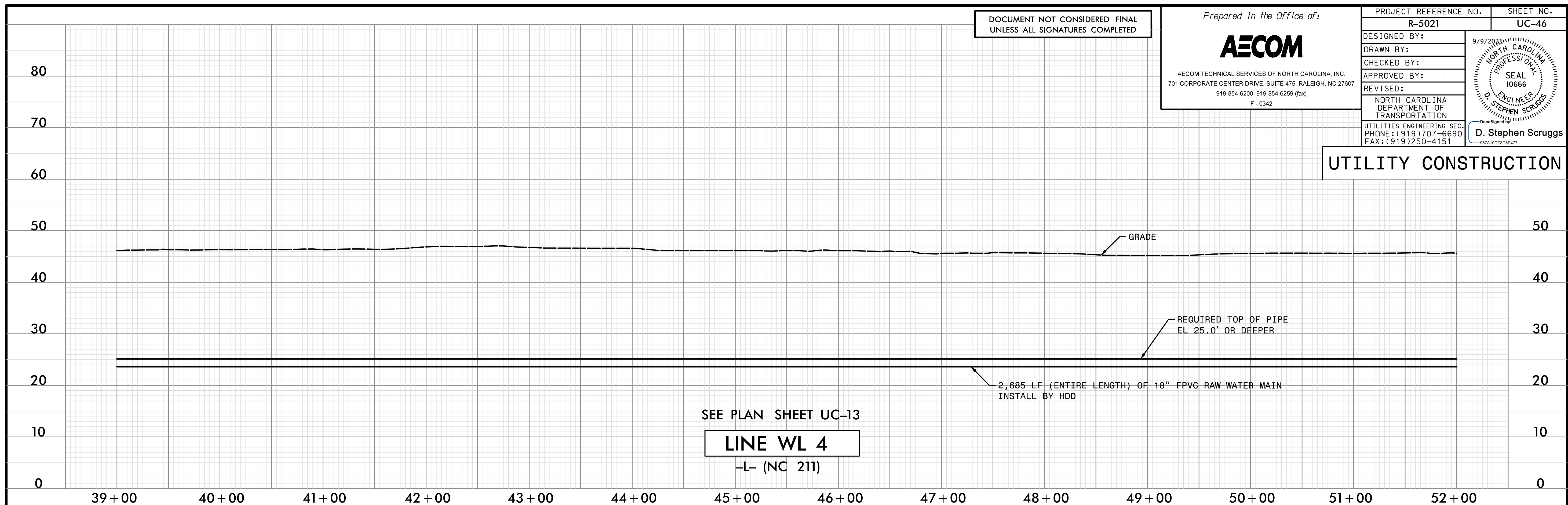
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701 CORPORATE CENTER DRIVE, SUITE 475, RALEIGH, NC 27607
919-854-6200 919-854-6259 (fax)
F- 0342

PROJECT REFERENCE NO. R-5021	SHEET NO. UC-46
DESIGNED BY:	
DRAWN BY:	
CHECKED BY:	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
D. Stephen Scruggs <small>957A10CE305E477</small>	

UTILITY CONSTRUCTION



DATE: 07/17/2021
TIME: 4:53:39 PM

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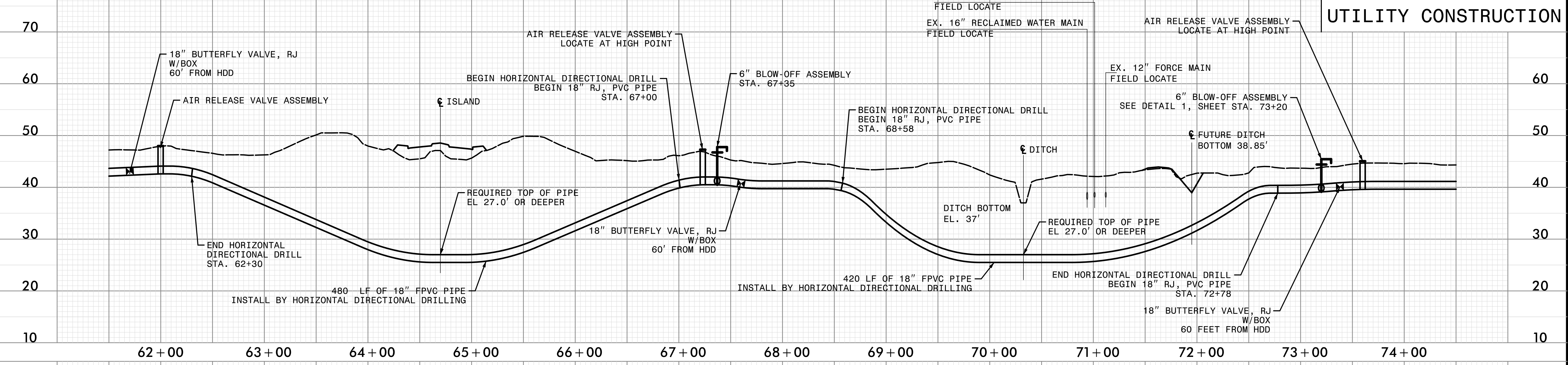
AECOM TECHNICAL SERVICES OF NORTH CAROLINA, INC.
701 CORPORATE CENTER DRIVE, SUITE 475, RALEIGH, NC 27607
919-854-6200 919-854-6259 (fax)
F-0342

PROJECT REFERENCE NO. R-5021	SHEET NO. UC-47
DESIGNED BY:	9/9/2023
DRAWN BY:	
CHECKED BY:	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
D. Stephen Scruggs	

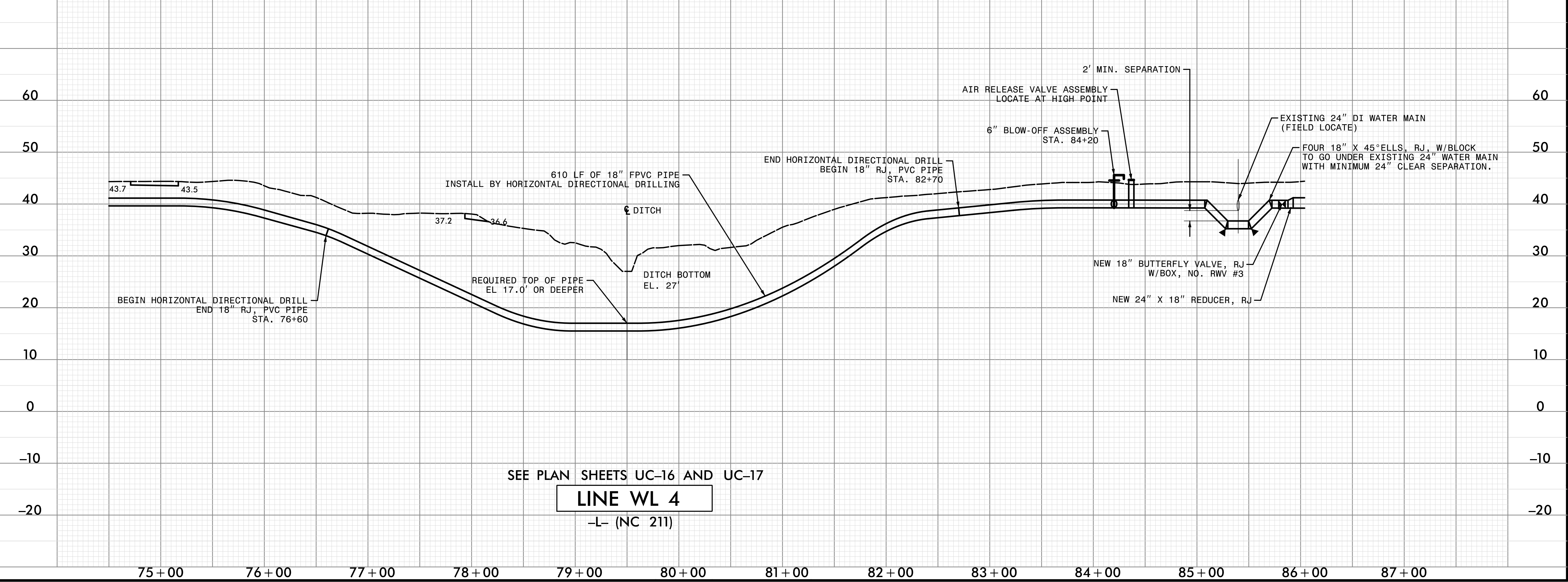
SEE PLAN SHEETS UC-15 AND UC-16

LINE WL 4

-L- (NC 211)



UTILITY CONSTRUCTION



SEE PLAN SHEETS UC-16 AND UC-17

LINE WL 4

-L- (NC 211)

DATE: 9/13/2023
TIME: 10:42 PM

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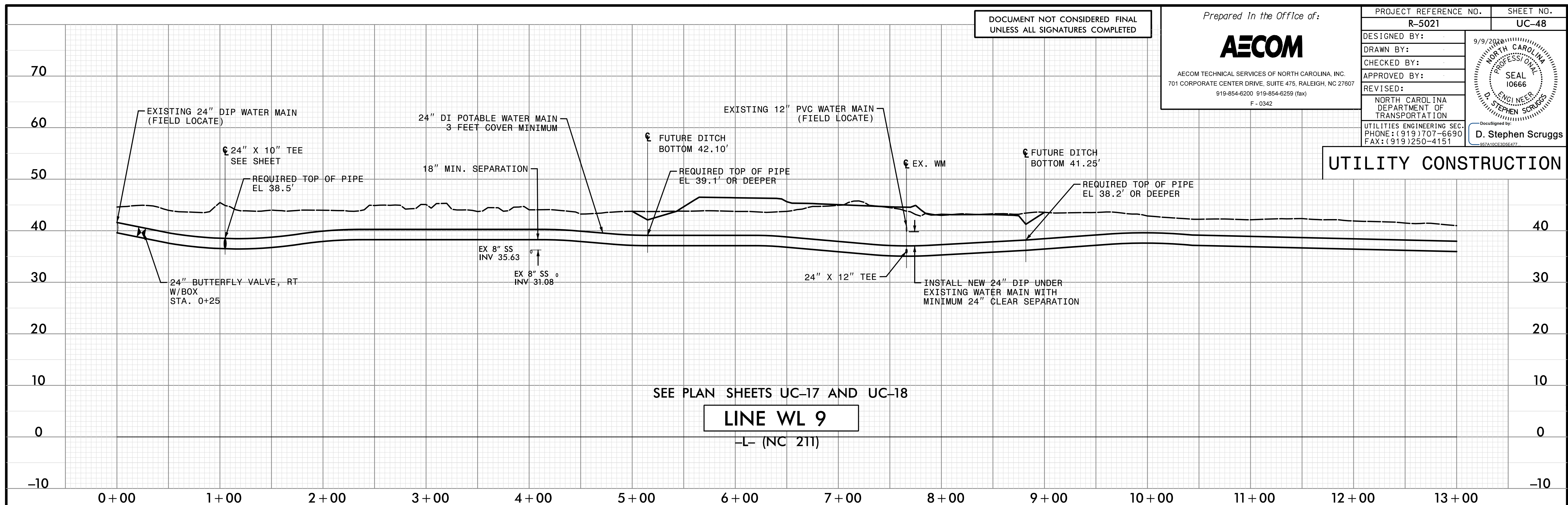
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701 CORPORATE CENTER DRIVE, SUITE 475, RALEIGH, NC 27607
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F-0342

PROJECT REFERENCE NO. R-5021	SHEET NO. UC-48
DESIGNED BY:	
DRAWN BY:	
CHECKED BY:	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
DocuSigned by: D. Stephen Scruggs <small>997A10E3305E477</small>	

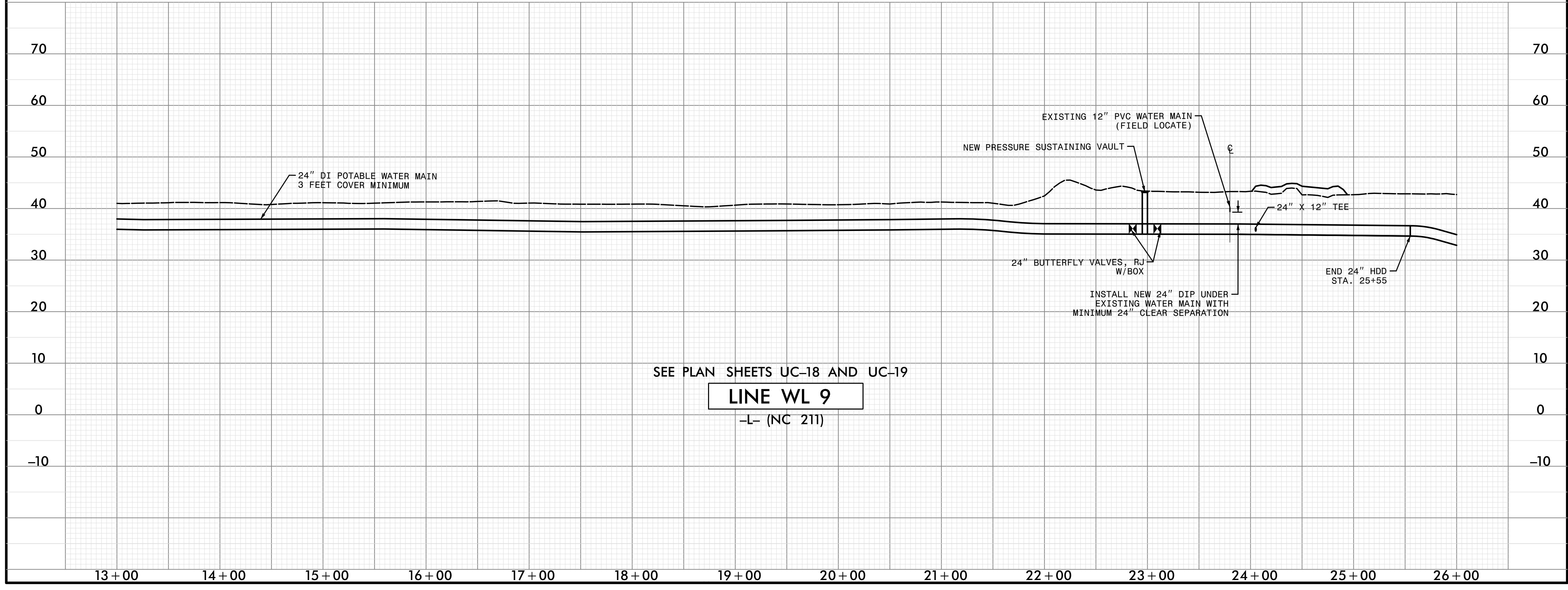
UTILITY CONSTRUCTION



SEE PLAN SHEETS UC-17 AND UC-18

LINE WL 9

-L- (NC 211)



SEE PLAN SHEETS UC-18 AND UC-19

LINE WL 9

-L- (NC 211)

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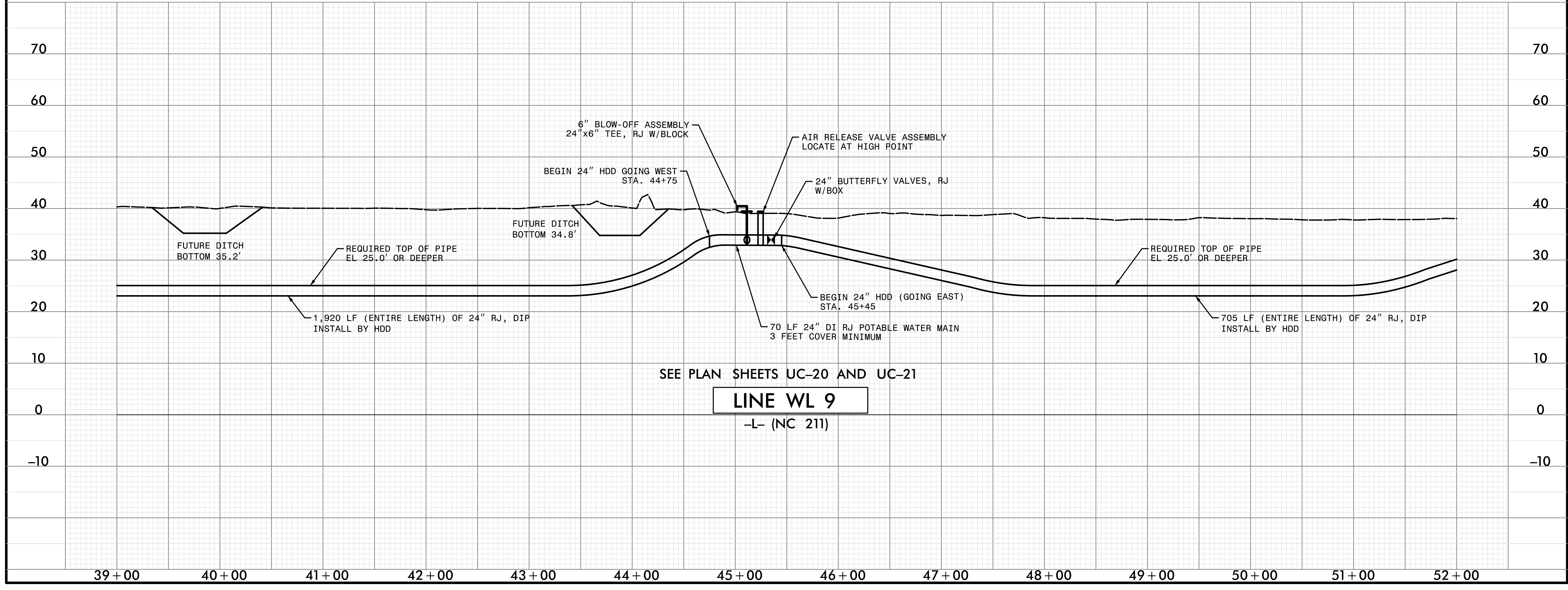
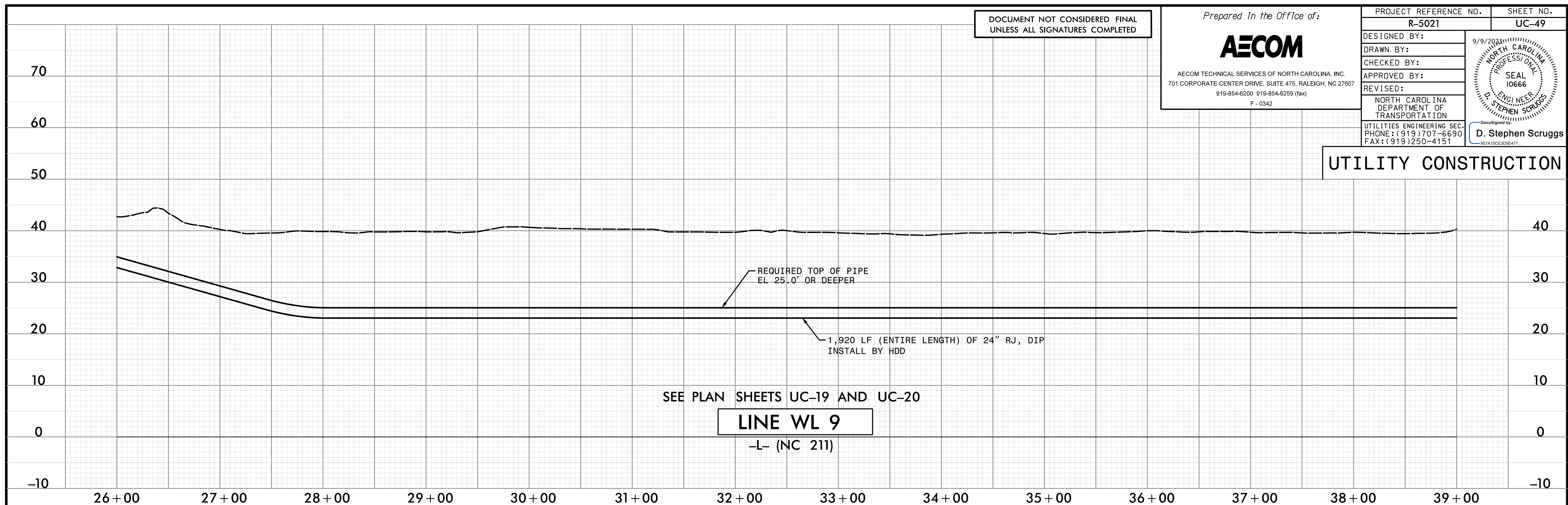
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F-0342

PROJECT REFERENCE NO. R-5021	SHEET NO. UC-49
DESIGNED BY:	
DRAWN BY:	
CHECKED BY:	
APPROVED BY:	
REVISED:	
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DocuSigned by: D. Stephen Scruggs 957A10CE305E477	

UTILITY CONSTRUCTION



DATE: 8/17/2021
TIME: 10:39 PM

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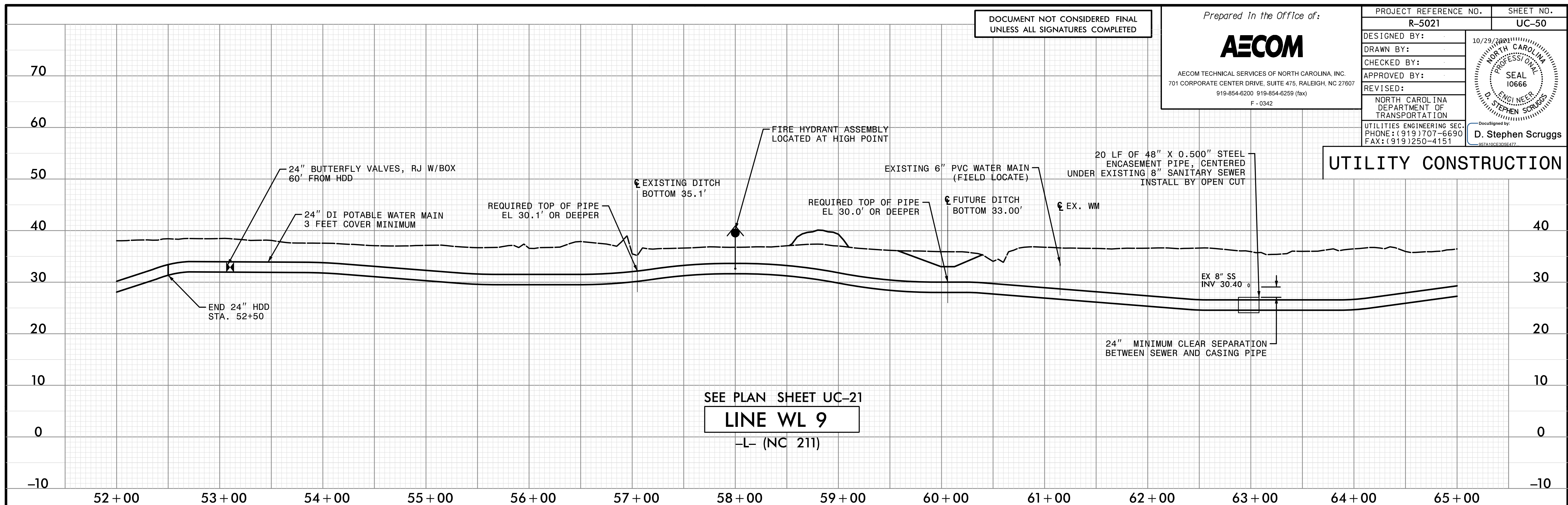
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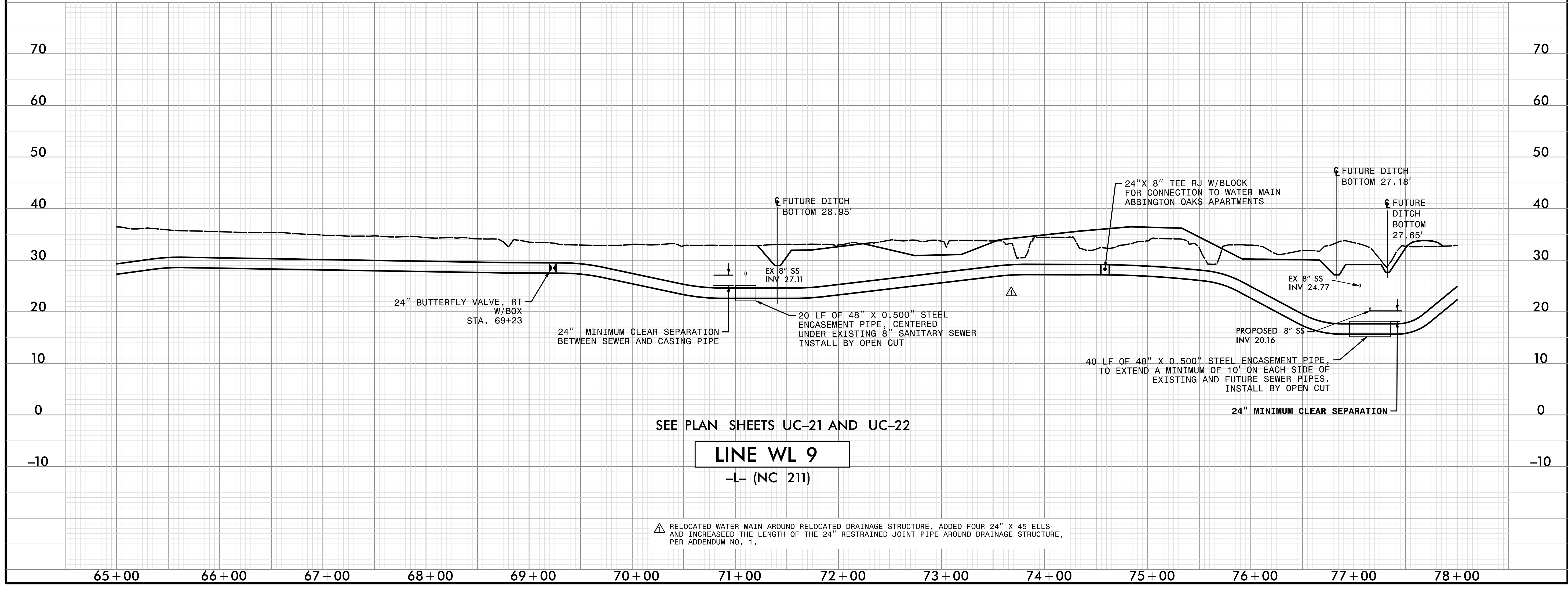
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701 CORPORATE CENTER DRIVE, SUITE 475, RALEIGH, NC 27607
919-854-6200 919-854-6259 (fax)
F-0342

PROJECT REFERENCE NO. R-5021	SHEET NO. UC-50
DESIGNED BY:	10/29/2001
DRAWN BY:	
CHECKED BY:	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
DocuSigned by: D. Stephen Scruggs 927A10CE306477	

UTILITY CONSTRUCTION



SEE PLAN SHEET UC-21
LINE WL 9
-L- (NC 211)



SEE PLAN SHEETS UC-21 AND UC-22
LINE WL 9
-L- (NC 211)

△ RELOCATED WATER MAIN AROUND RELOCATED DRAINAGE STRUCTURE. ADDED FOUR 24" X 45 ELLS AND INCREASED THE LENGTH OF THE 24" RESTRAINED JOINT PIPE AROUND DRAINAGE STRUCTURE, PER ADDENDUM NO. 1.

DATE: 10/21/2001
TIME: 3:52:31 PM

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

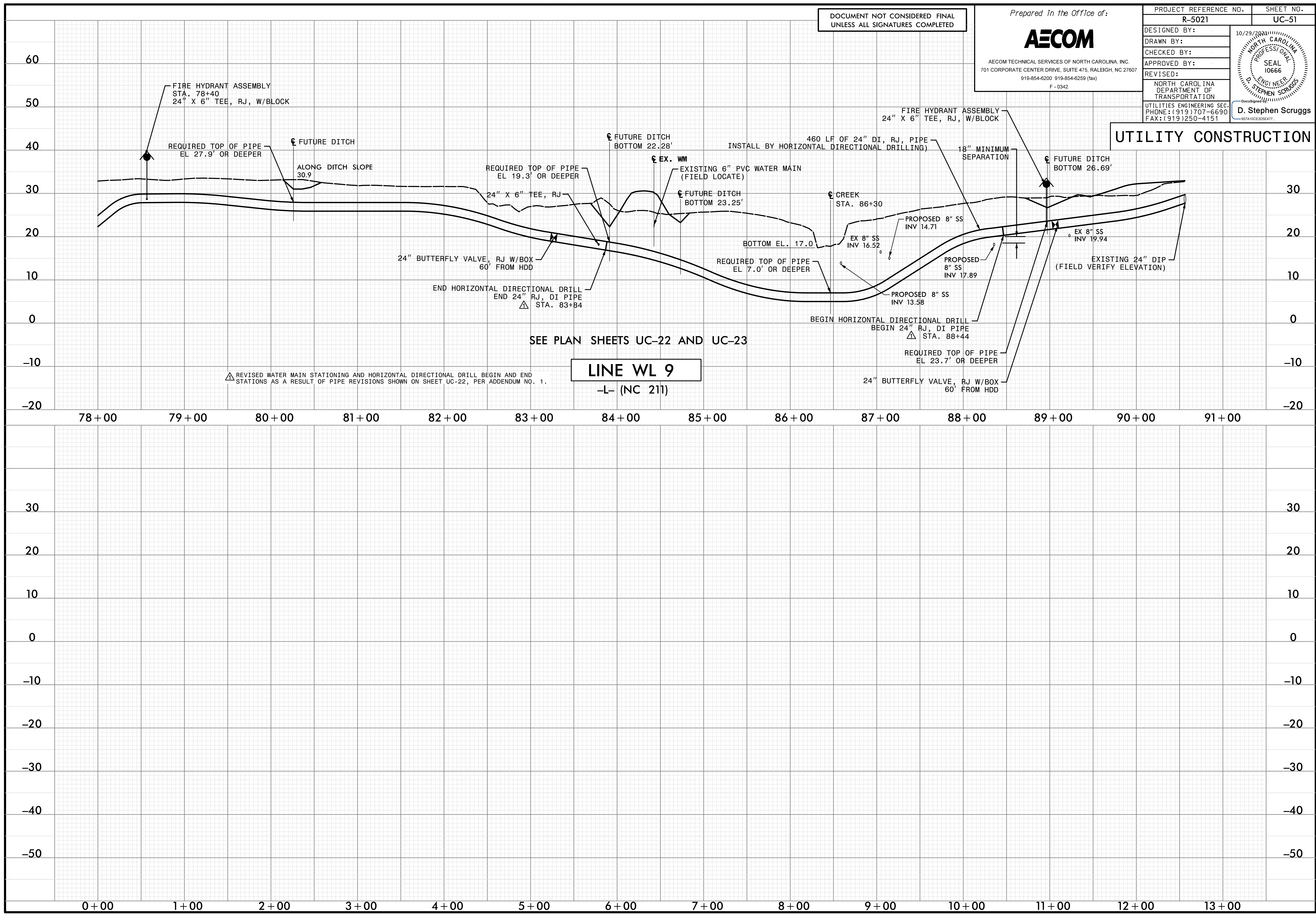
Prepared in the Office of:



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919-854-6200 919-854-6259 (fax)
F-0342

PROJECT REFERENCE NO. R-5021	SHEET NO. UC-51
DESIGNED BY:	10/29/2021
DRAWN BY:	
CHECKED BY:	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
D. Stephen Scruggs 987A10CE305E477	

UTILITY CONSTRUCTION



DATE: 10/26/2021
TIME: 10:25:05 AM

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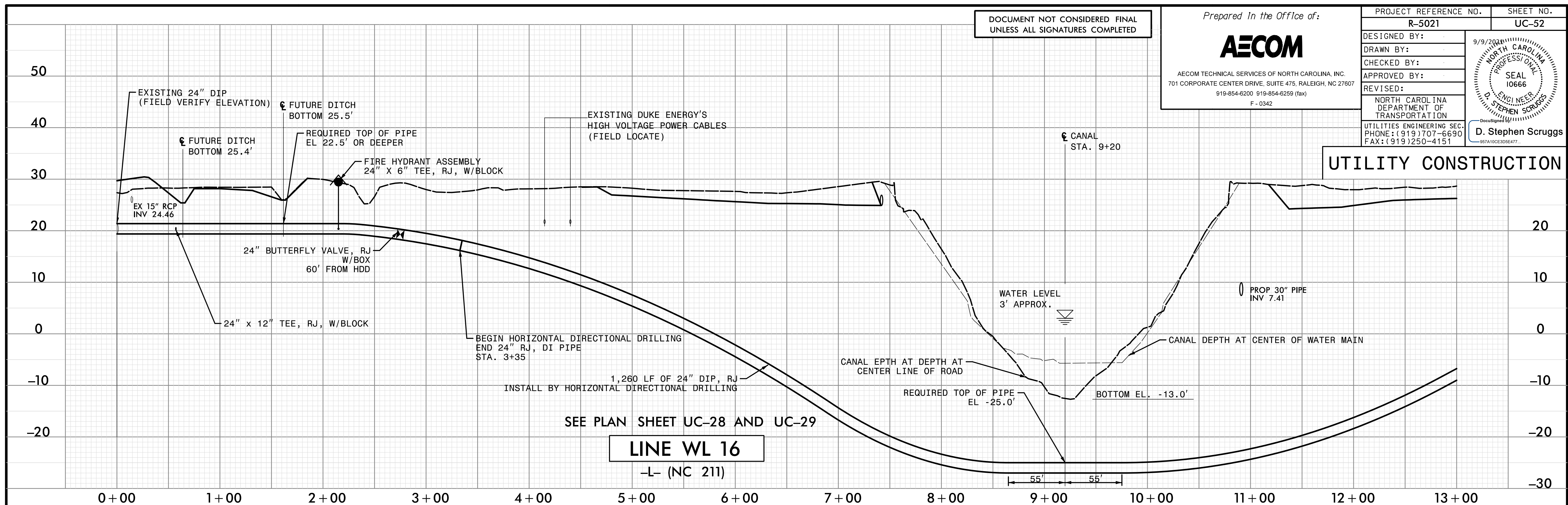
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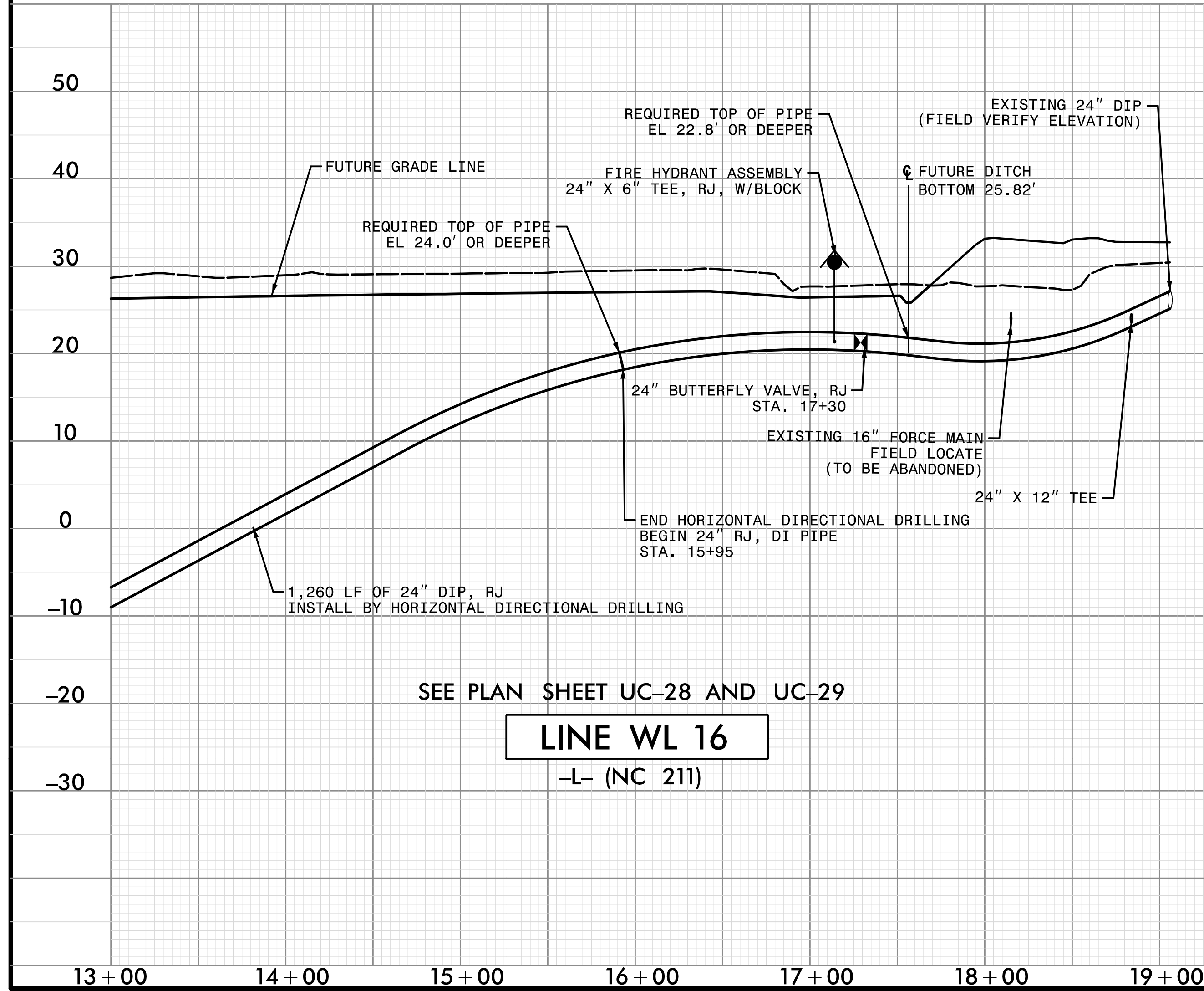
AECOM TECHNICAL SERVICES OF NORTH CAROLINA, INC.
701 CORPORATE CENTER DRIVE, SUITE 475, RALEIGH, NC 27607
919-854-6200 919-854-6259 (fax)
F-0342

PROJECT REFERENCE NO. R-5021	SHEET NO. UC-52
DESIGNED BY:	
DRAWN BY:	
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APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
D. Stephen Scruggs <small>9/9/2021</small>	

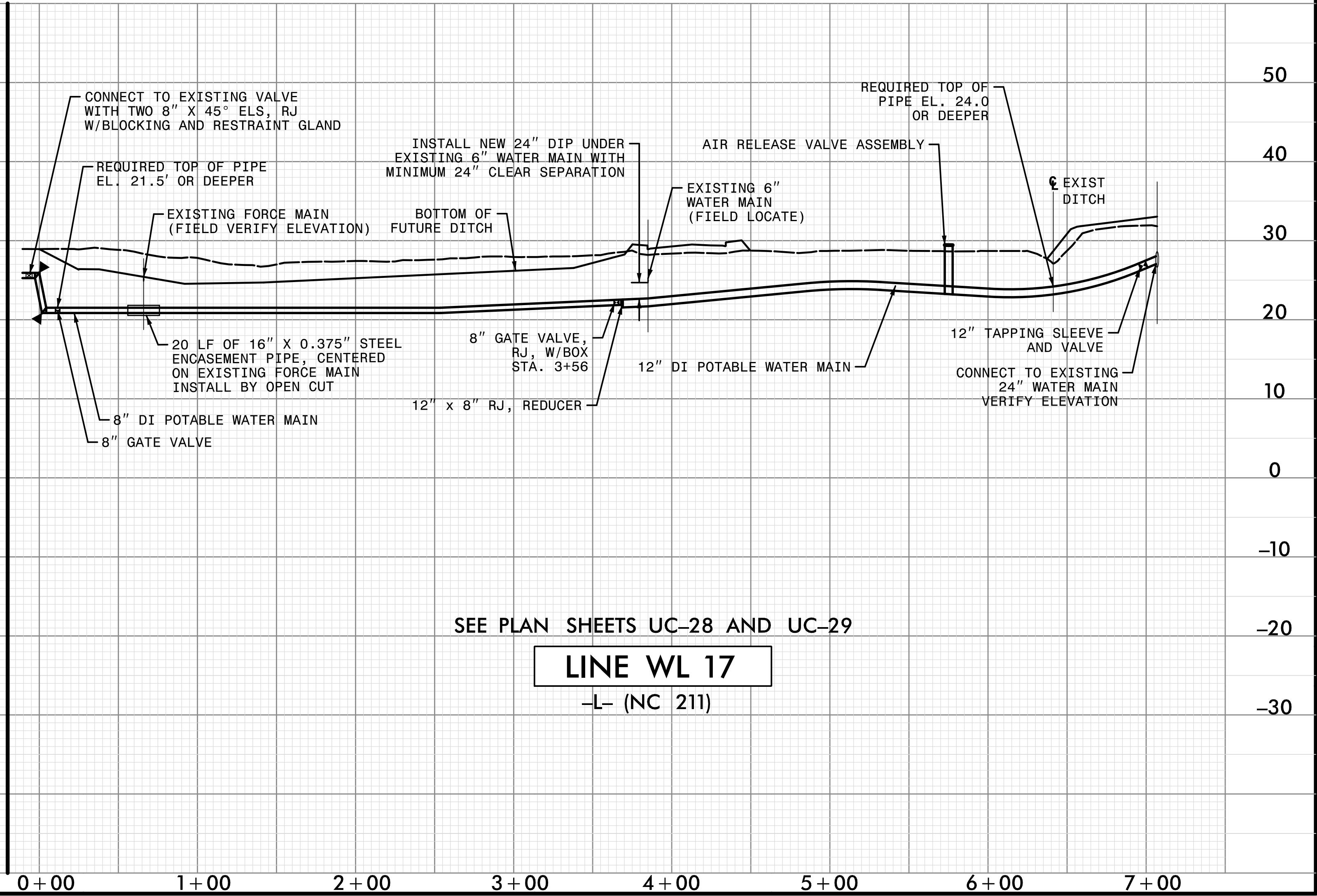
UTILITY CONSTRUCTION



LINE WL 16
-L- (NC 211)



LINE WL 16
-L- (NC 211)



LINE WL 17
-L- (NC 211)

DATE: 8/17/2021
TIME: 12:28:59 PM

DOCUMENT NOT CONSIDERED FINAL
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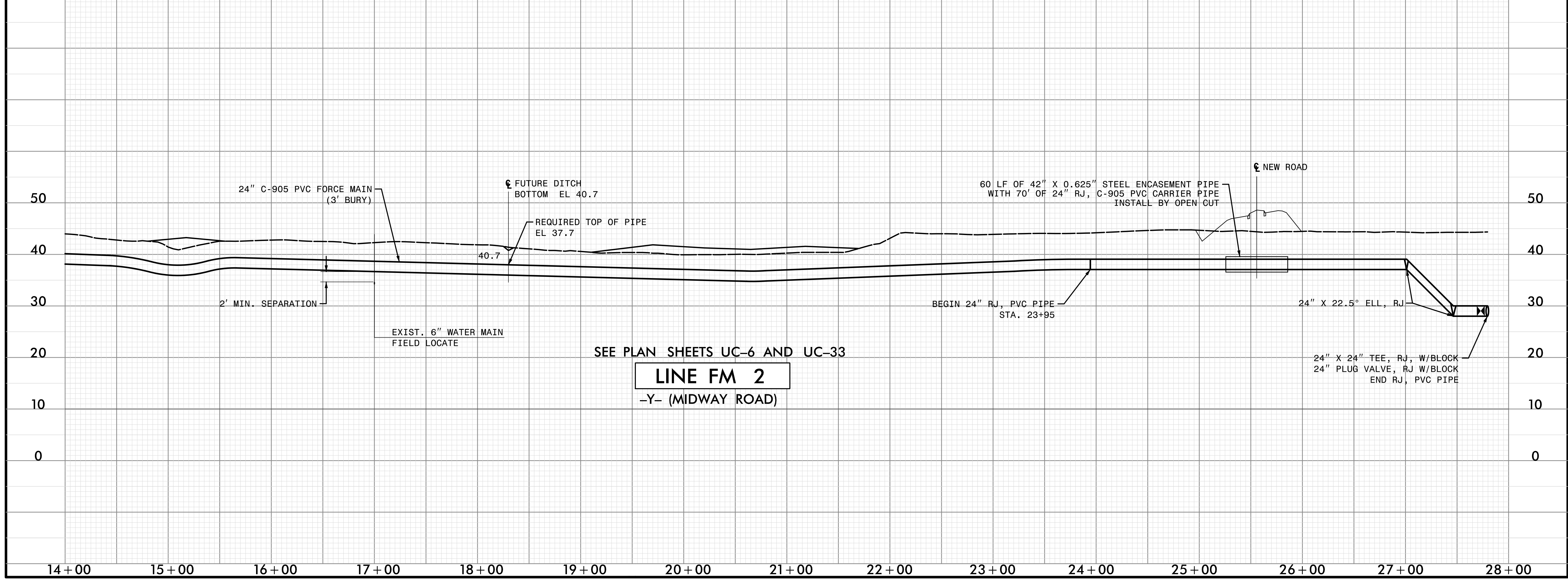
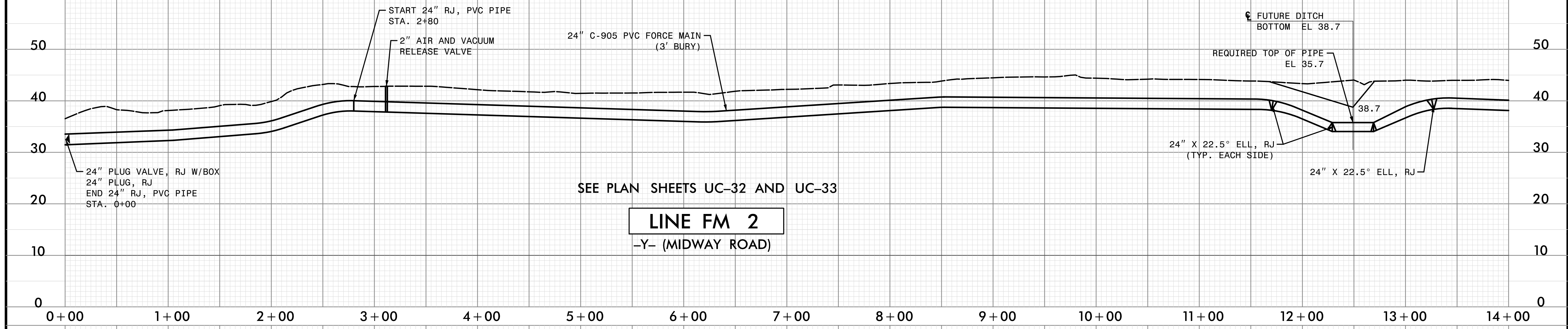
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F-0342

PROJECT REFERENCE NO. R-5021	SHEET NO. UC-53
DESIGNED BY:	
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UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
D. Stephen Scruggs	

UTILITY CONSTRUCTION



DATE: 6/20/2021
TIME: 9:00:38 AM

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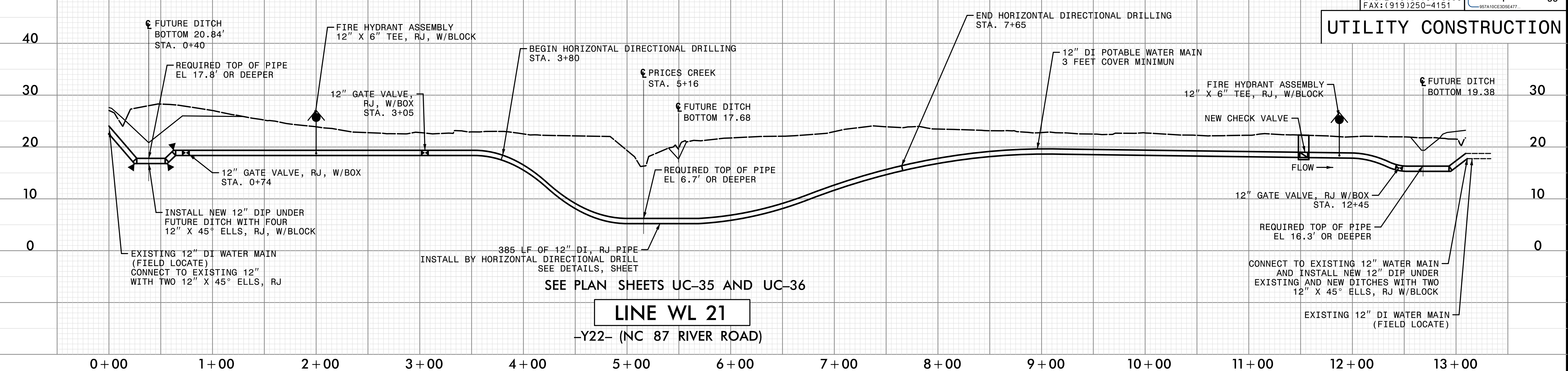
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919-854-6200 919-854-6259 (fax)
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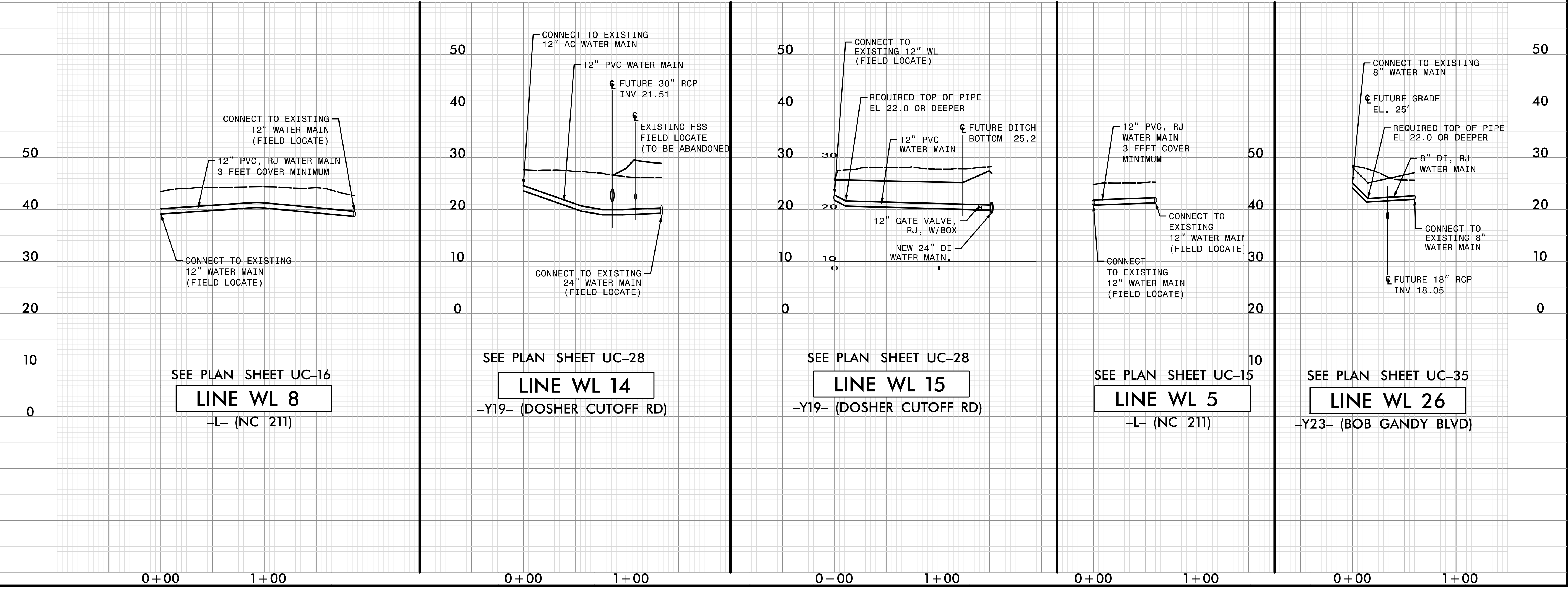
PROJECT REFERENCE NO. R-5021	SHEET NO. UC-54
DESIGNED BY:	9/9/2021
DRAWN BY:	
CHECKED BY:	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
D. Stephen Scruggs	

UTILITY CONSTRUCTION



LINE WL 21

-Y22- (NC 87 RIVER ROAD)



LINE WL 8

-L- (NC 211)

LINE WL 14

-Y19- (DOSHER CUTOFF RD)

LINE WL 15

-Y19- (DOSHER CUTOFF RD)

LINE WL 5

-L- (NC 211)

LINE WL 26

-Y23- (BOB GANDY BLVD)

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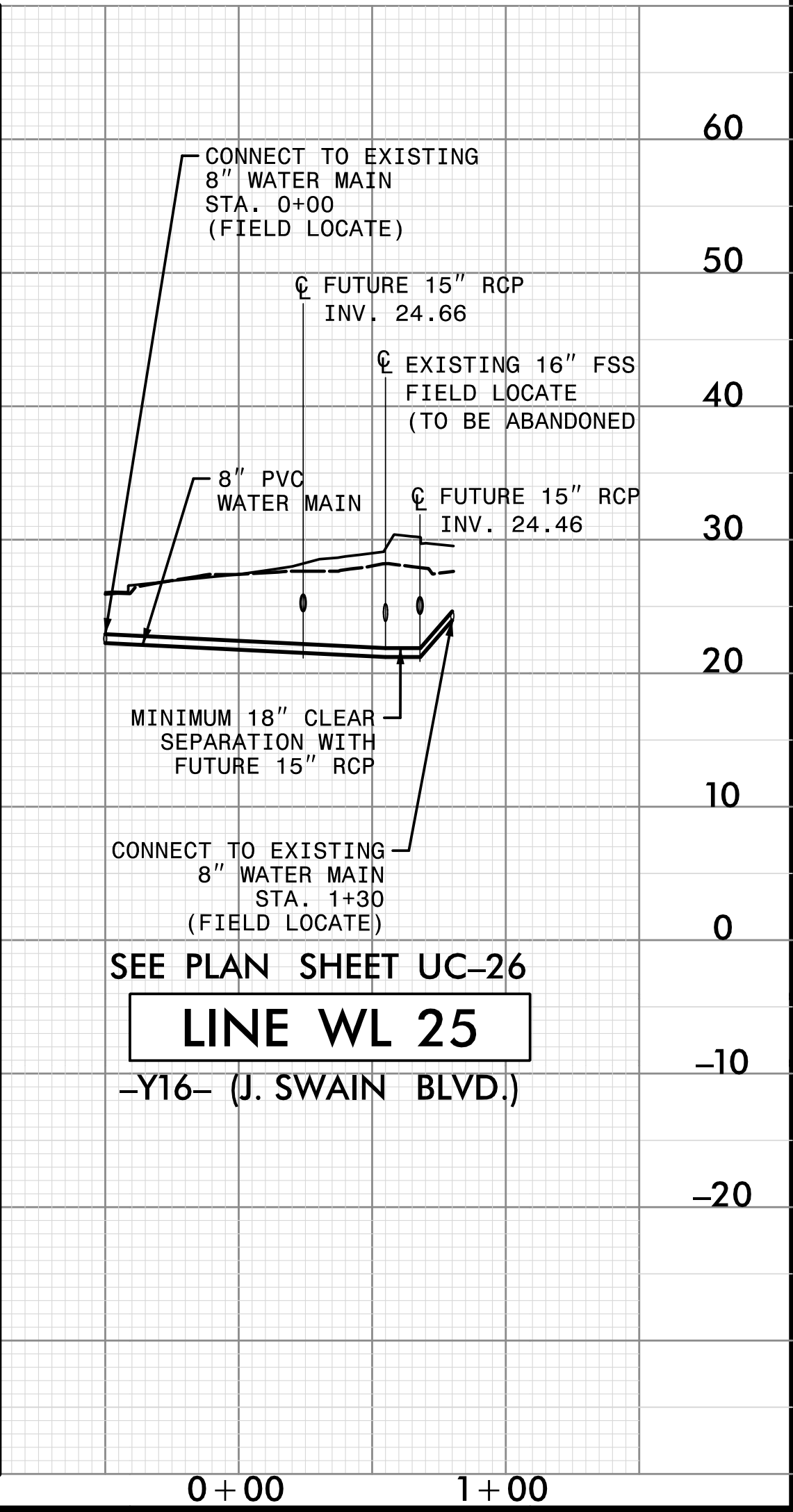
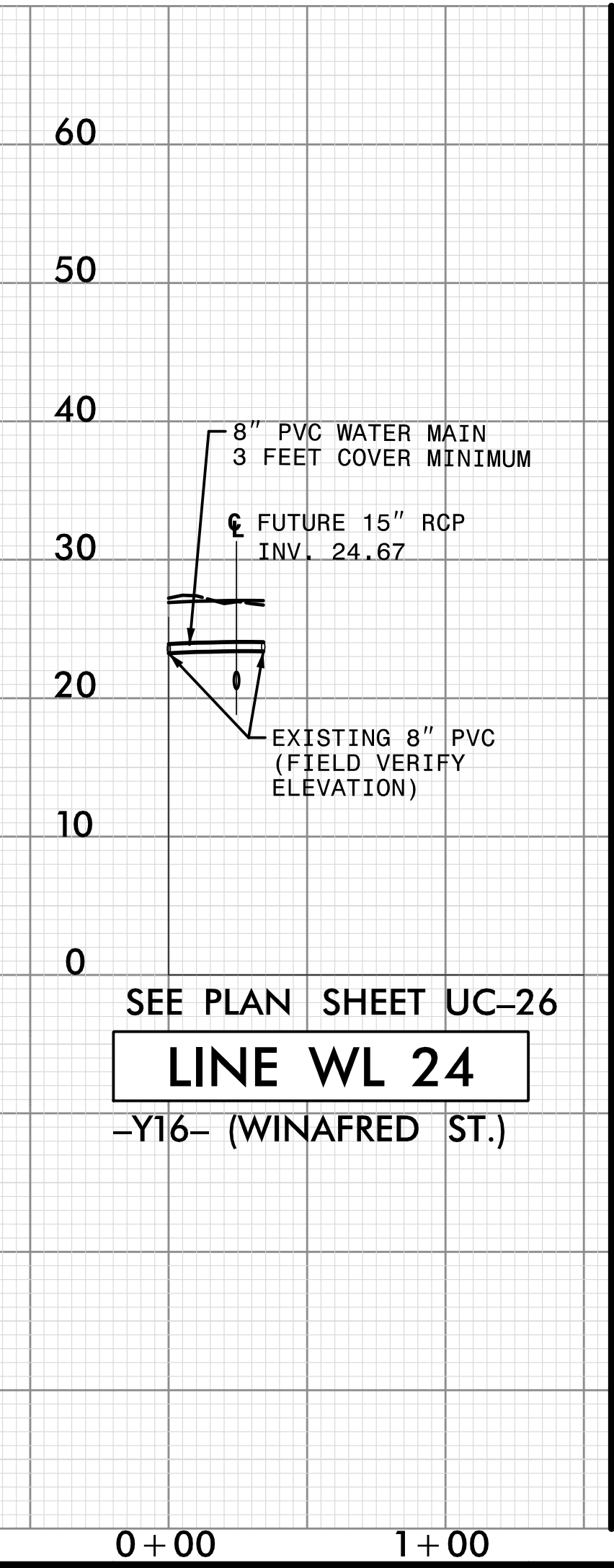
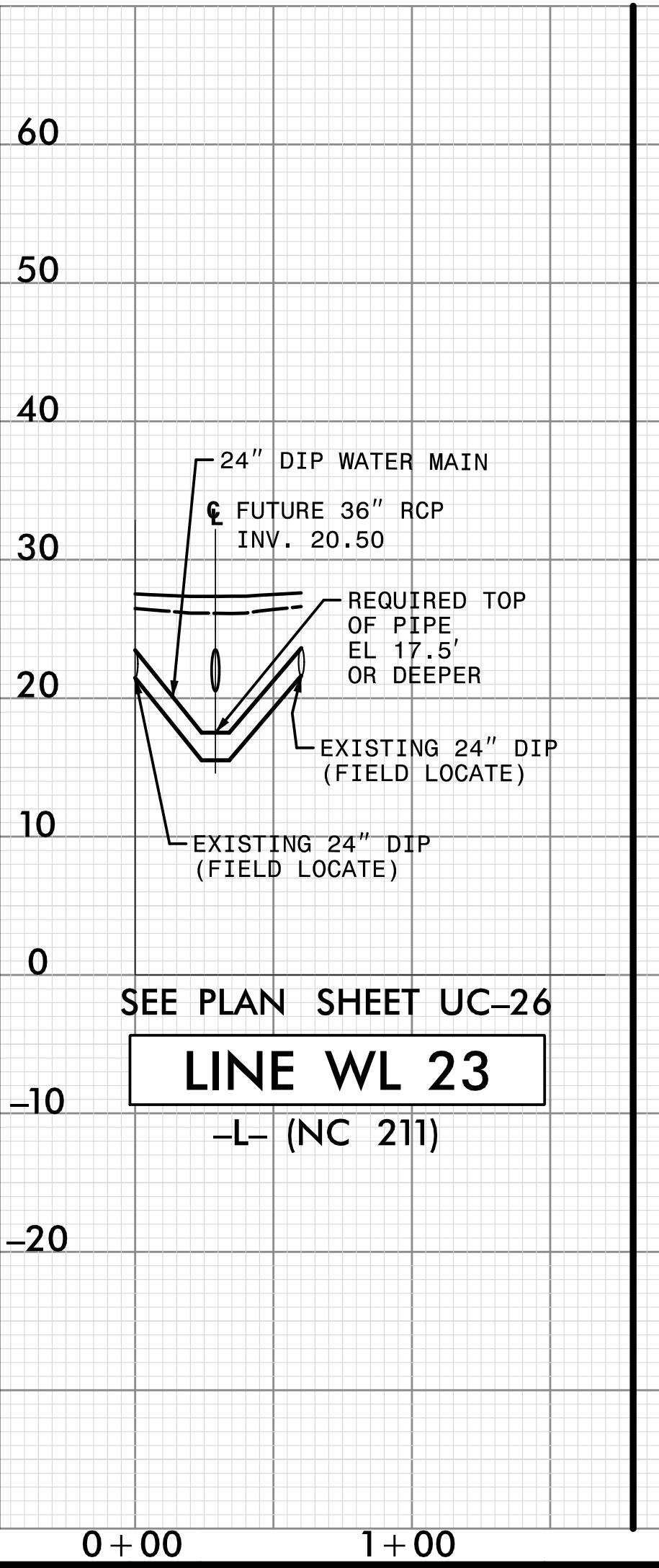
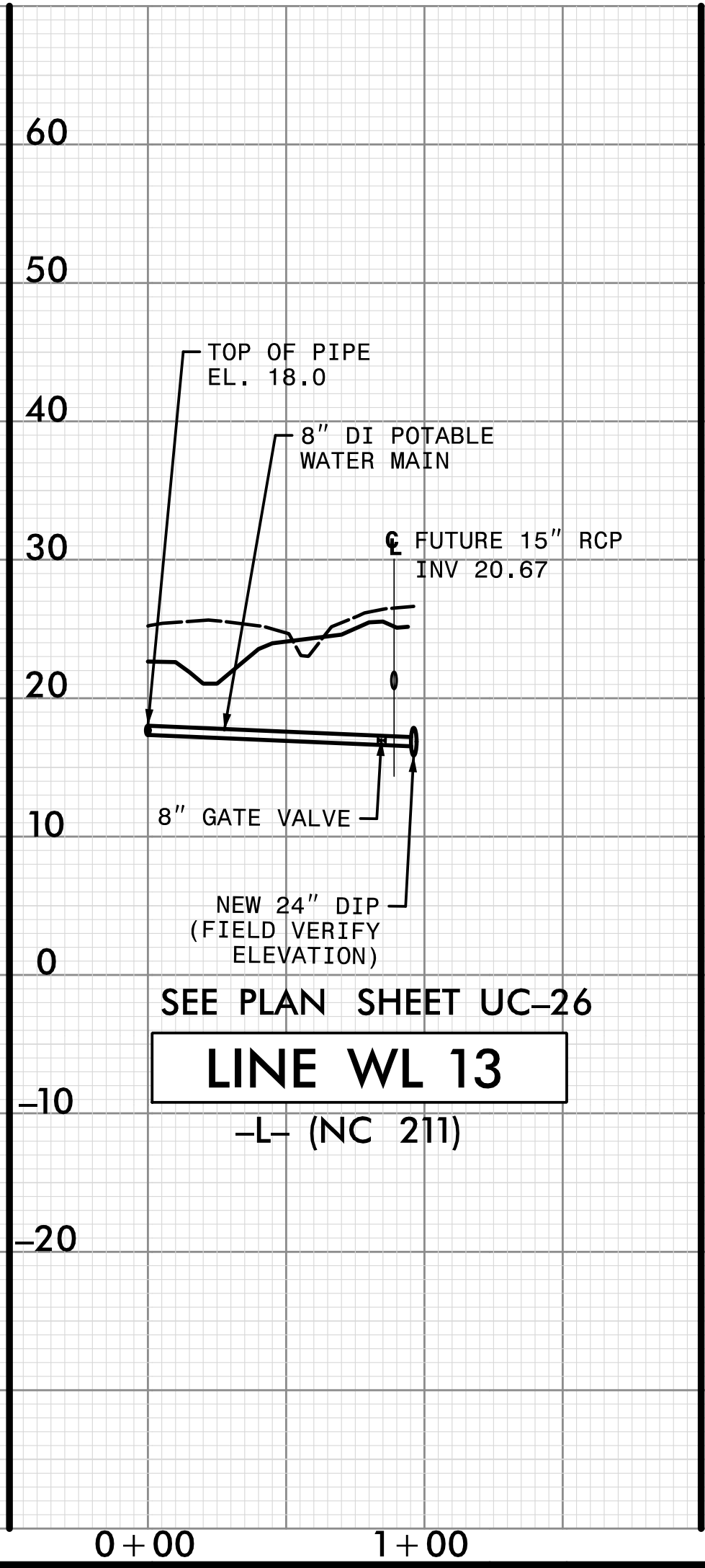
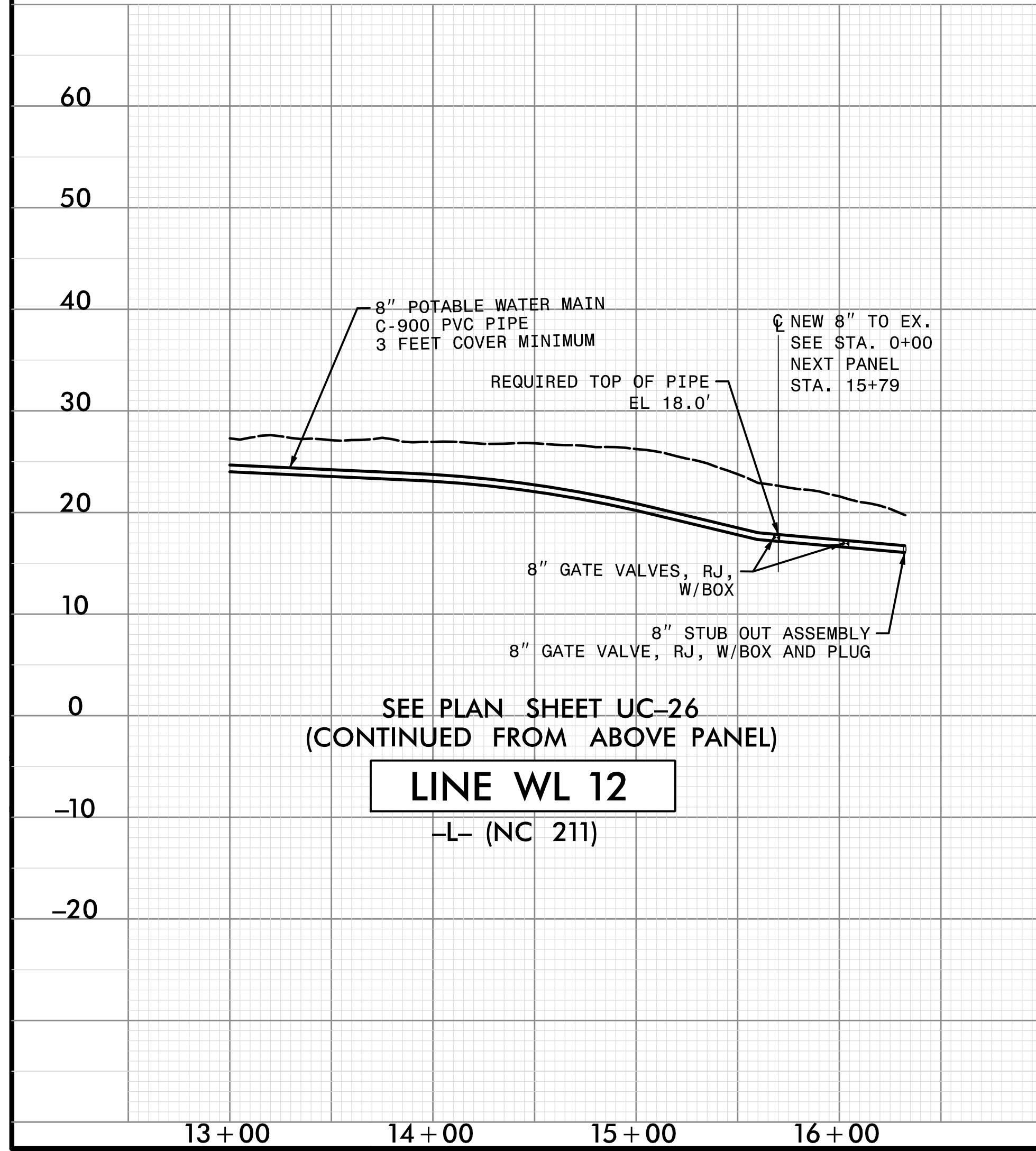
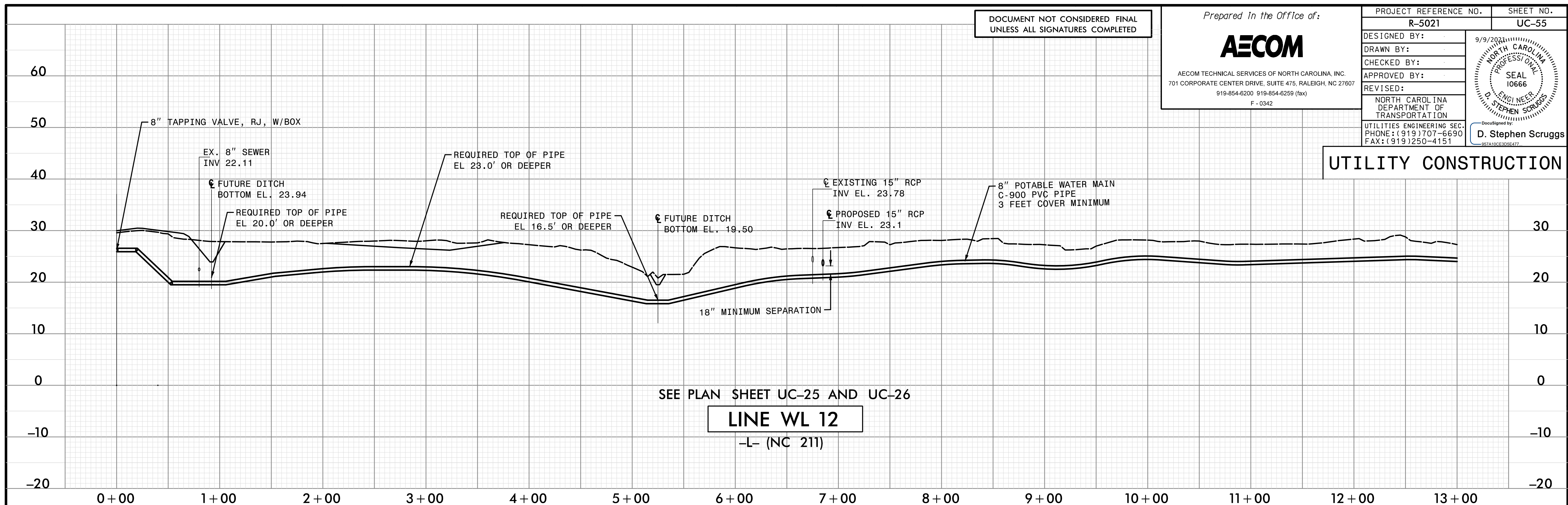
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PROJECT REFERENCE NO. R-5021	SHEET NO. UC-55
DESIGNED BY:	
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REVISED:	
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DocuSigned by: D. Stephen Scruggs <small>957A10CE3D5E477</small>	

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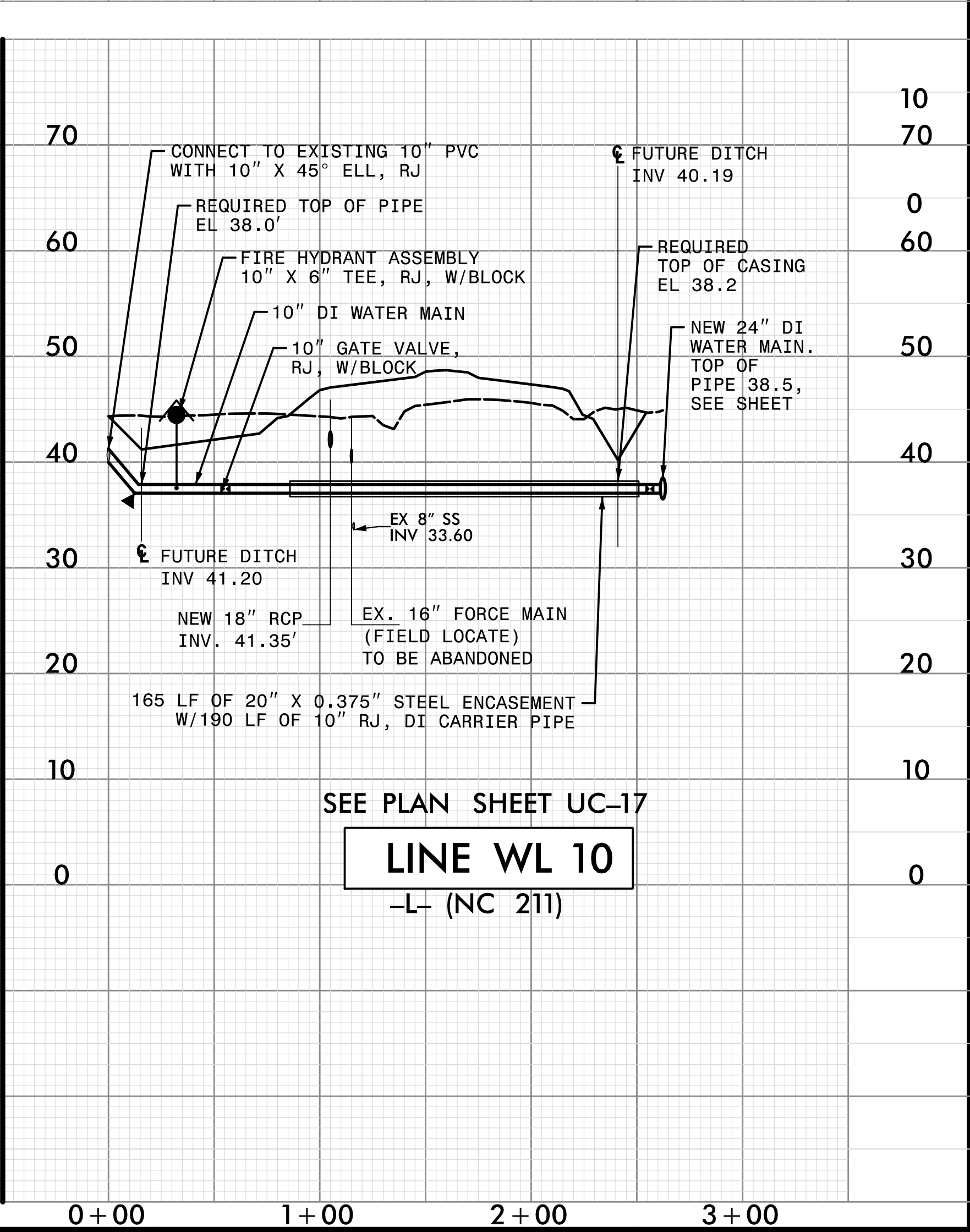
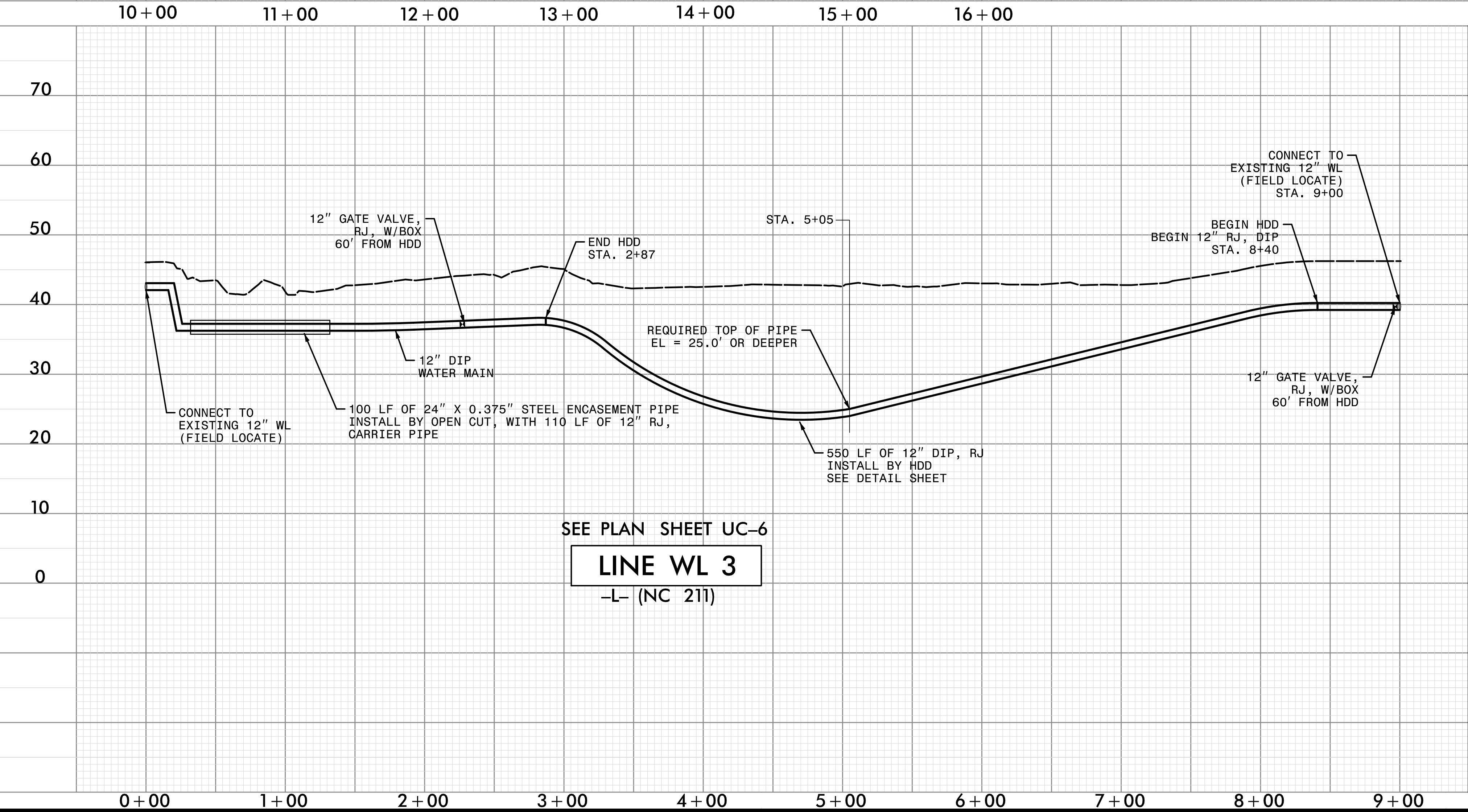
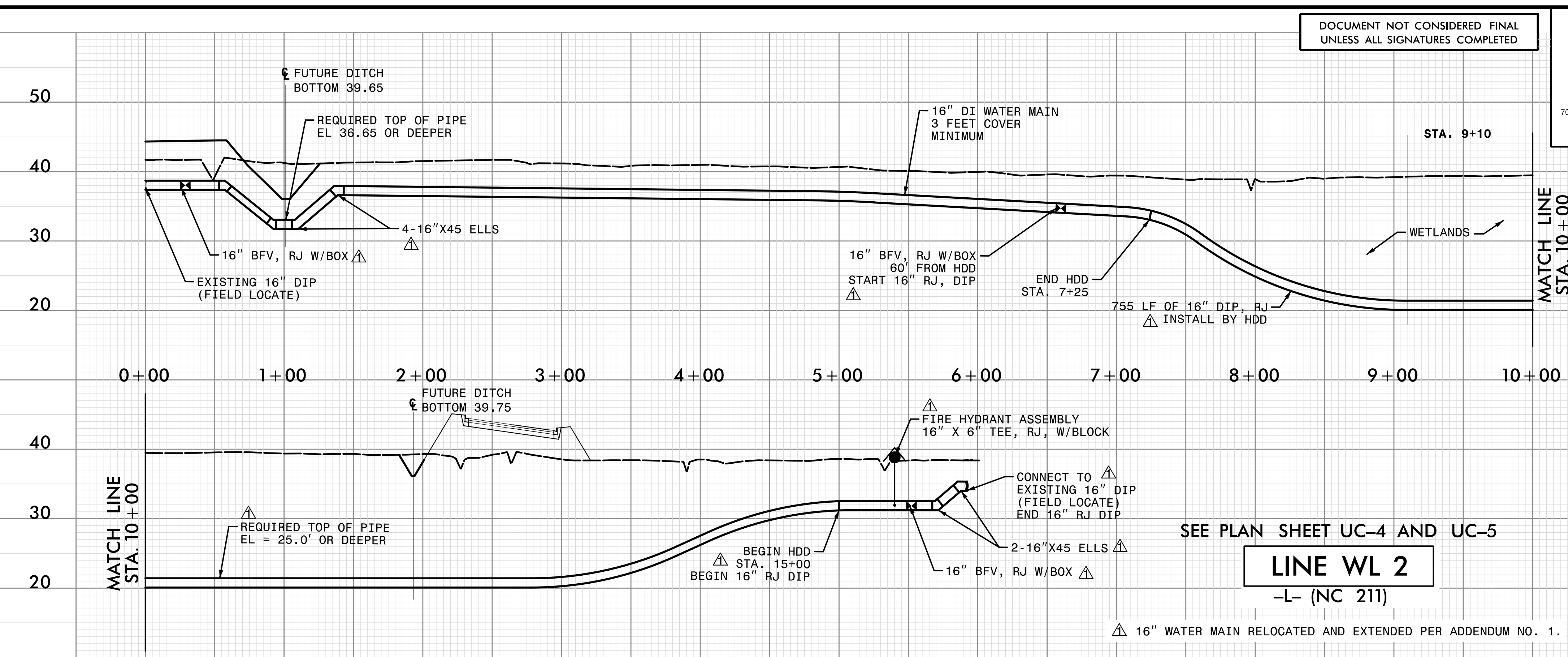
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PROJECT REFERENCE NO. R-5021	SHEET NO. UC-56
DESIGNED BY:	10/29/2020
DRAWN BY:	
CHECKED BY:	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
D. Stephen Scruggs 957A10C30E477	

UTILITY CONSTRUCTION



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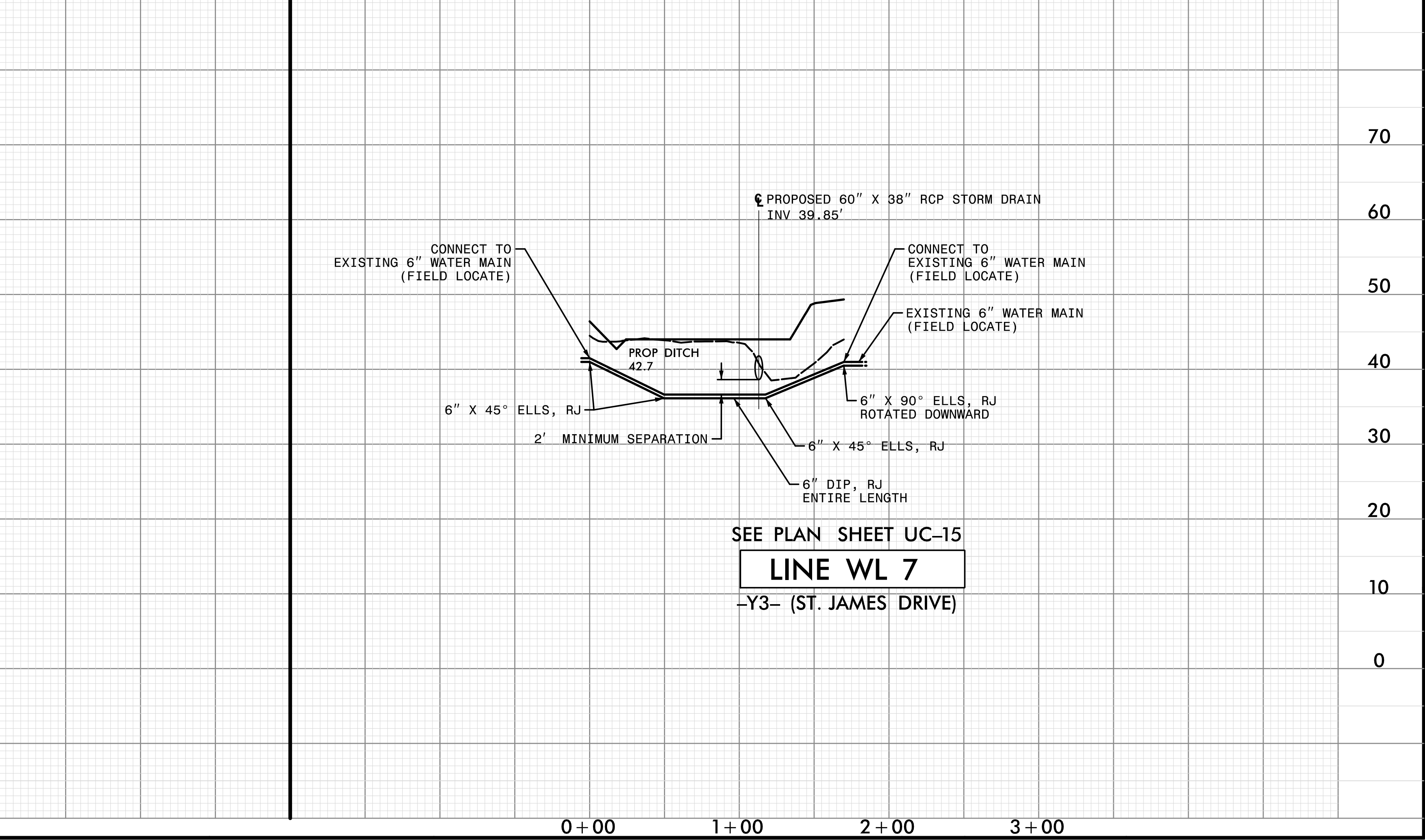
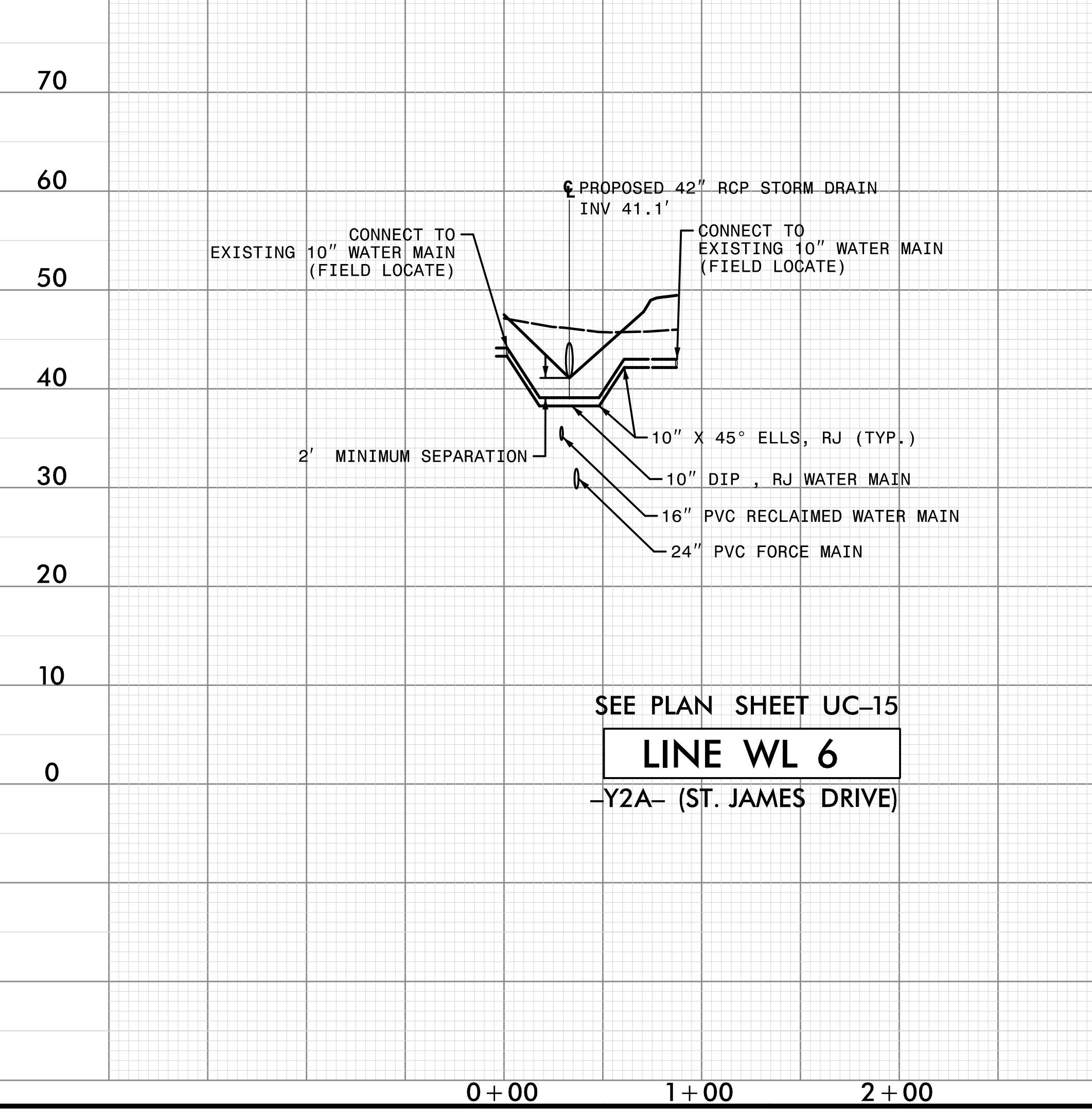
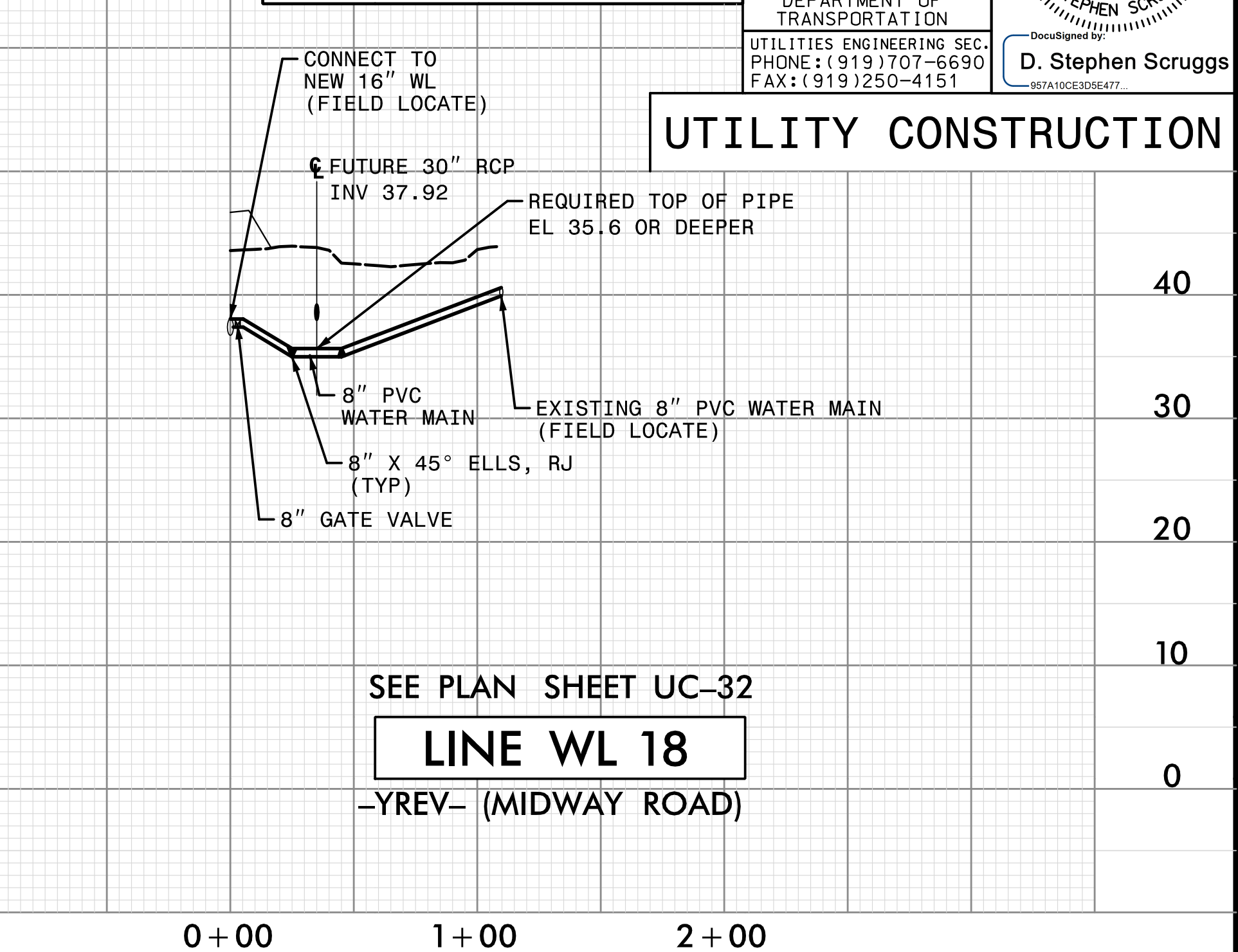
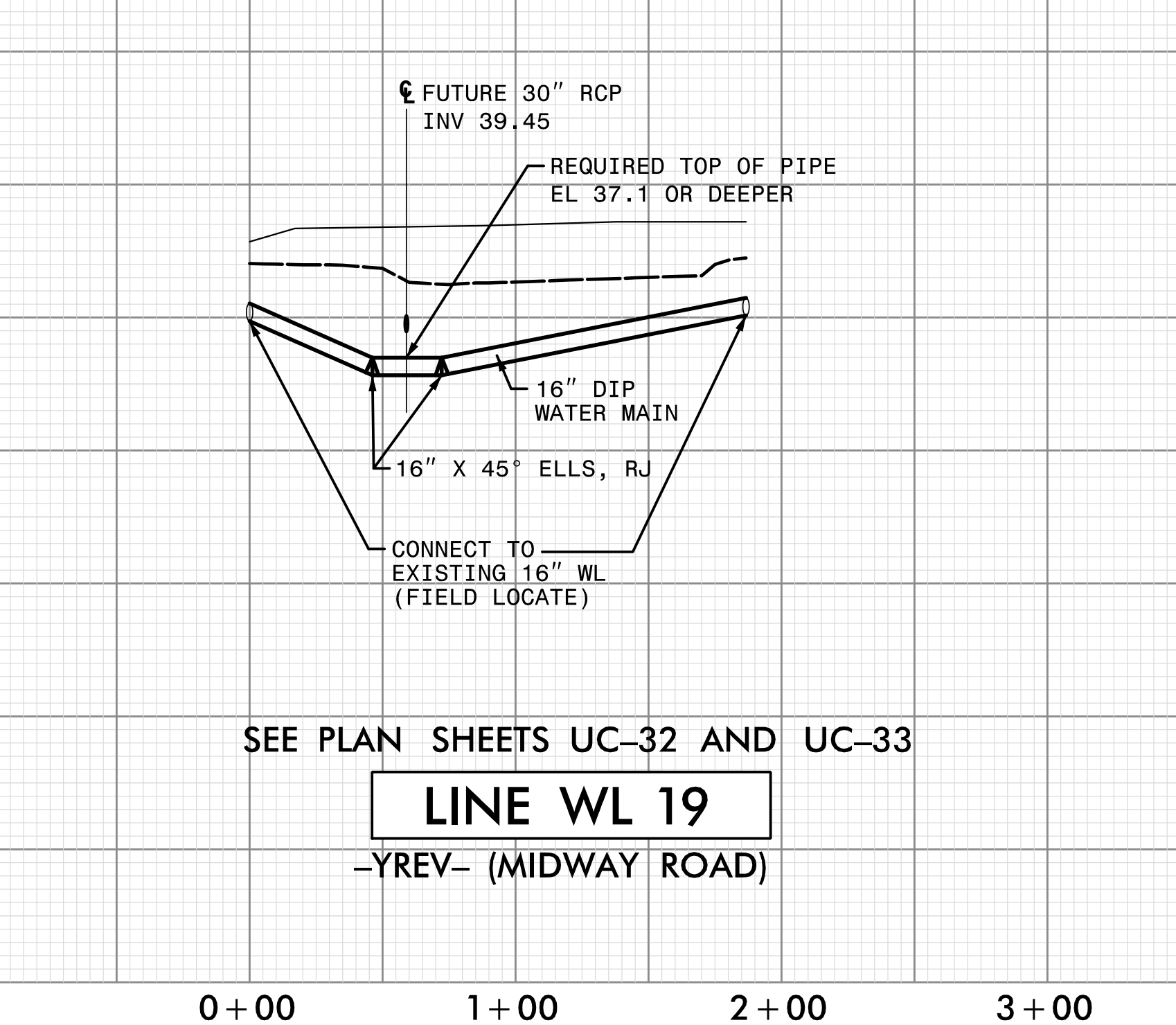
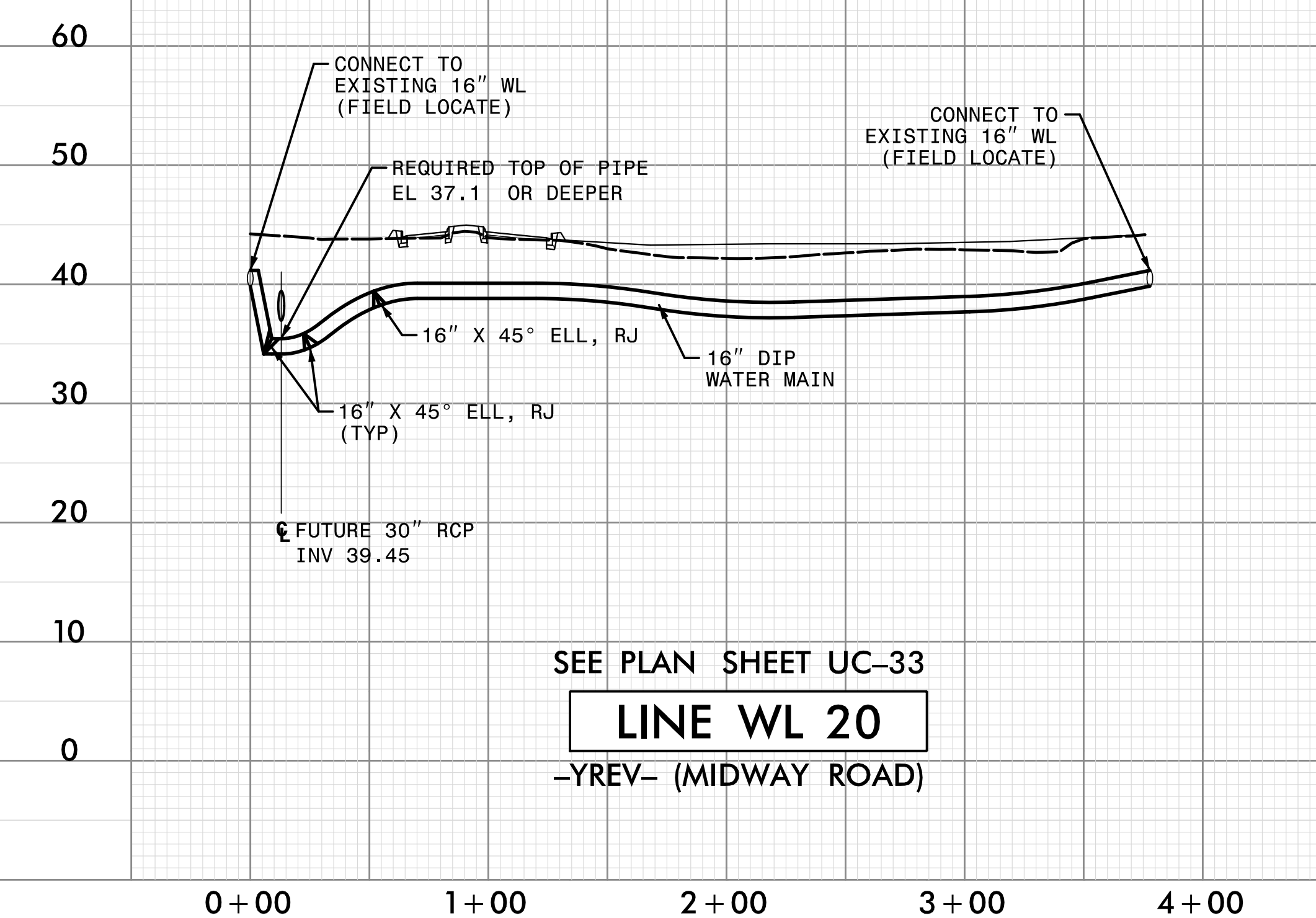
Prepared in the Office of:



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919-854-6200 919-854-6259 (fax)
F-0342

PROJECT REFERENCE NO. R-5021	SHEET NO. UC-57
DESIGNED BY:	
DRAWN BY:	
CHECKED BY:	
APPROVED BY:	
REVISED:	
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D. Stephen Scruggs <small>957A10C30E477</small>	

UTILITY CONSTRUCTION



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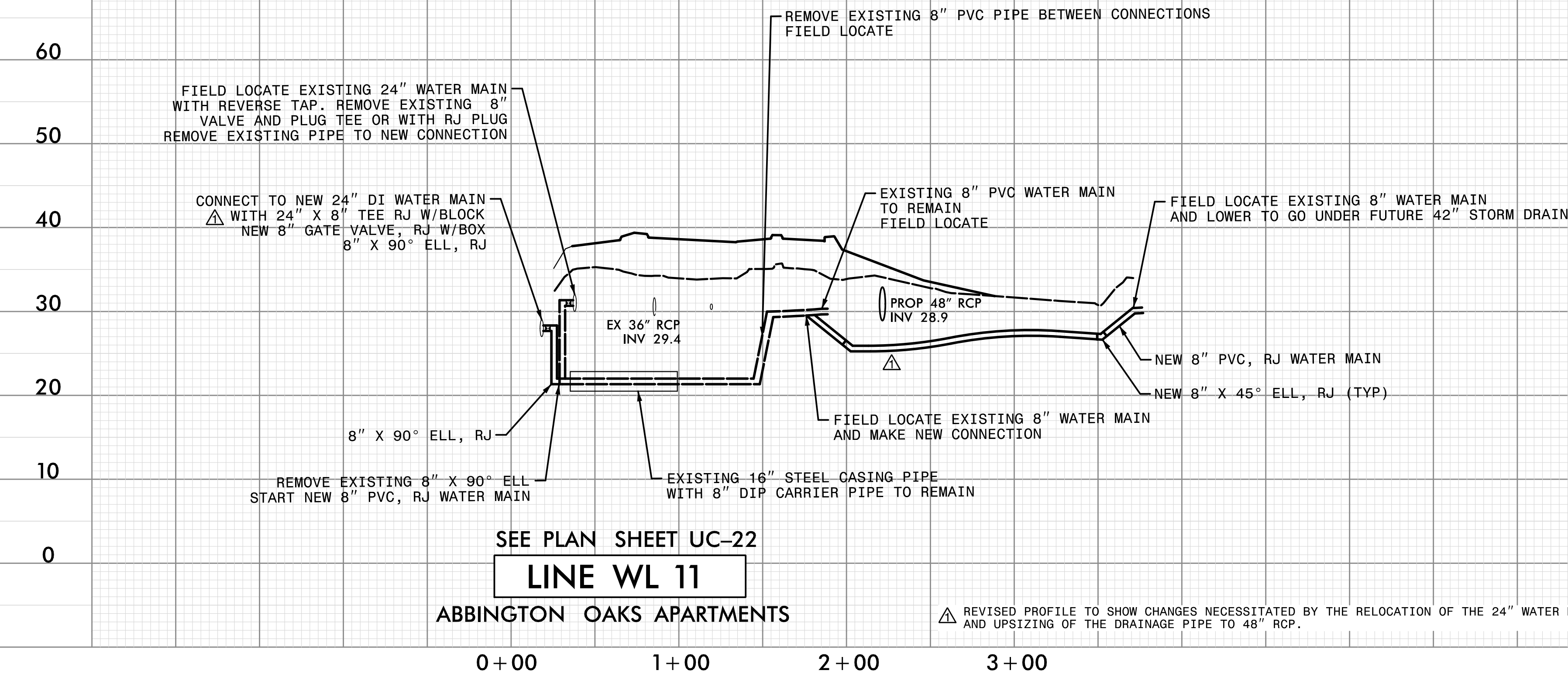
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F-0342

PROJECT REFERENCE NO. R-5021	SHEET NO. UC-58
DESIGNED BY:	10/29/2021
DRAWN BY:	
CHECKED BY:	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
DocuSigned by: D. Stephen Scruggs 957A10CE3D5E477	

UTILITY CONSTRUCTION



△ REVISED PROFILE TO SHOW CHANGES NECESSITATED BY THE RELOCATION OF THE 24" WATER MAIN AND UPSIZING OF THE DRAINAGE PIPE TO 48" RCP.