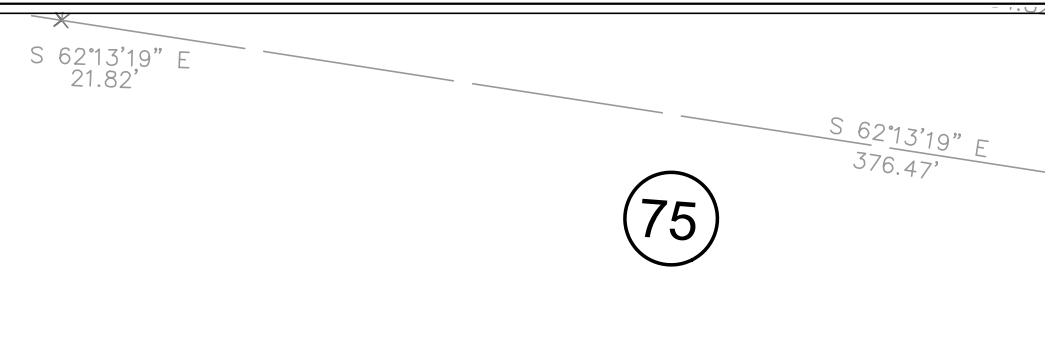


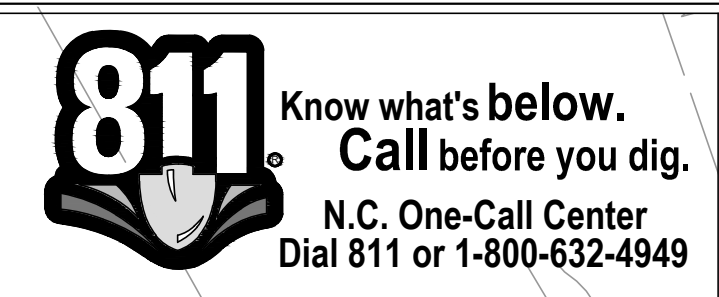
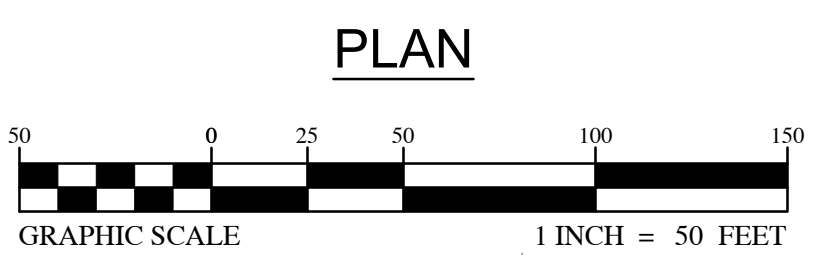
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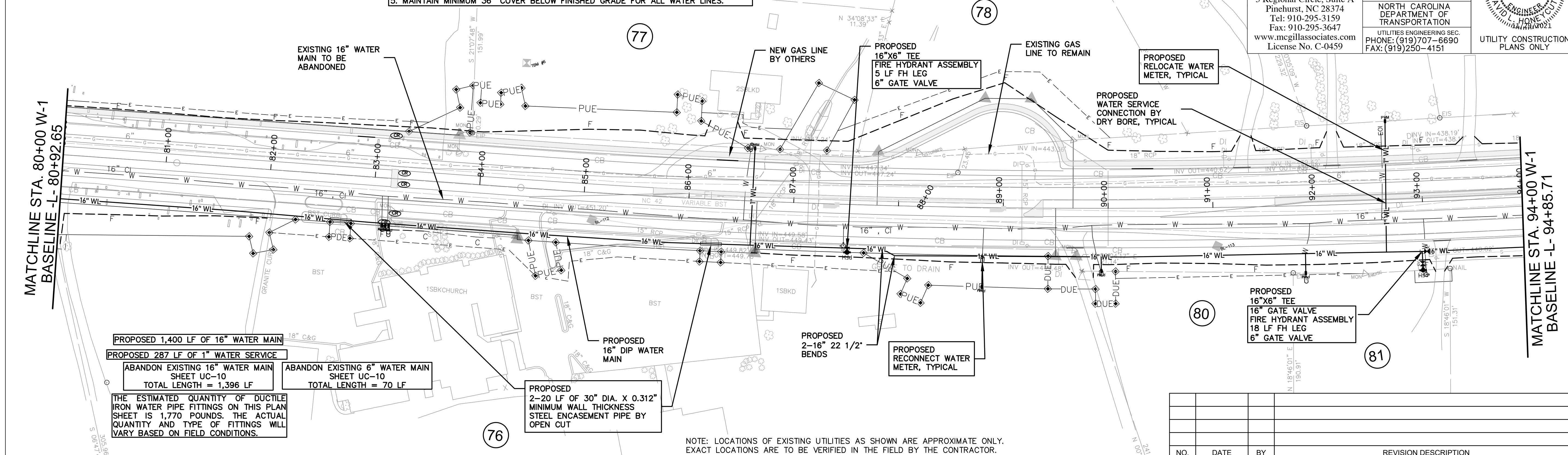


- NOTES:**
1. RELOCATE ALL EXISTING WATER LINE SERVICES TO THE NEW WATER LINE. FOLLOW CITY OF SANFORD STANDARD SERVICE CONNECTION DETAILS. COORDINATE SERVICE TIE OVER WITH PROPERTY OWNER AND CITY OF SANFORD.
  2. PROVIDE 18" MINIMUM VERTICAL CLEARANCE AT ALL DRAINAGE SYSTEM CROSSINGS.
  3. ABANDON WATER LINE IN LOCATIONS SHOWN. ABANDONMENT INCLUDES ALL FITTINGS AND APPURTENANCES. ABANDONMENT OF THE WATER LINE TO BE IN ACCORDANCE WITH THE CITY OF SANFORD'S AND NCDOT'S REQUIREMENTS.
  4. ALL ABANDONED LINES 8" OR LARGER SHALL BE FILLED WITH CDF.
  5. MAINTAIN MINIMUM 36" COVER BELOW FINISHED GRADE FOR ALL WATER LINES.



**mcgill**  
 McGill Associates, P.A.  
 5 Regional Circle, Suite A  
 Pinehurst, NC 28374  
 Tel: 910-295-3159  
 Fax: 910-295-3647  
 www.mcgillassociates.com  
 License No. C-0459

PROJECT REFERENCE NO. R-3830	SHEET NO. UC-10
DESIGNED BY: DLH	
DRAWN BY: WW, MJ, BB	
CHECKED BY: DLH	
APPROVED BY:	UTILITIES ENGINEERING SEC. PHONE: (919)707-6690 FAX: (919)250-4151
REVISD:	UTILITY CONSTRUCTION PLANS ONLY



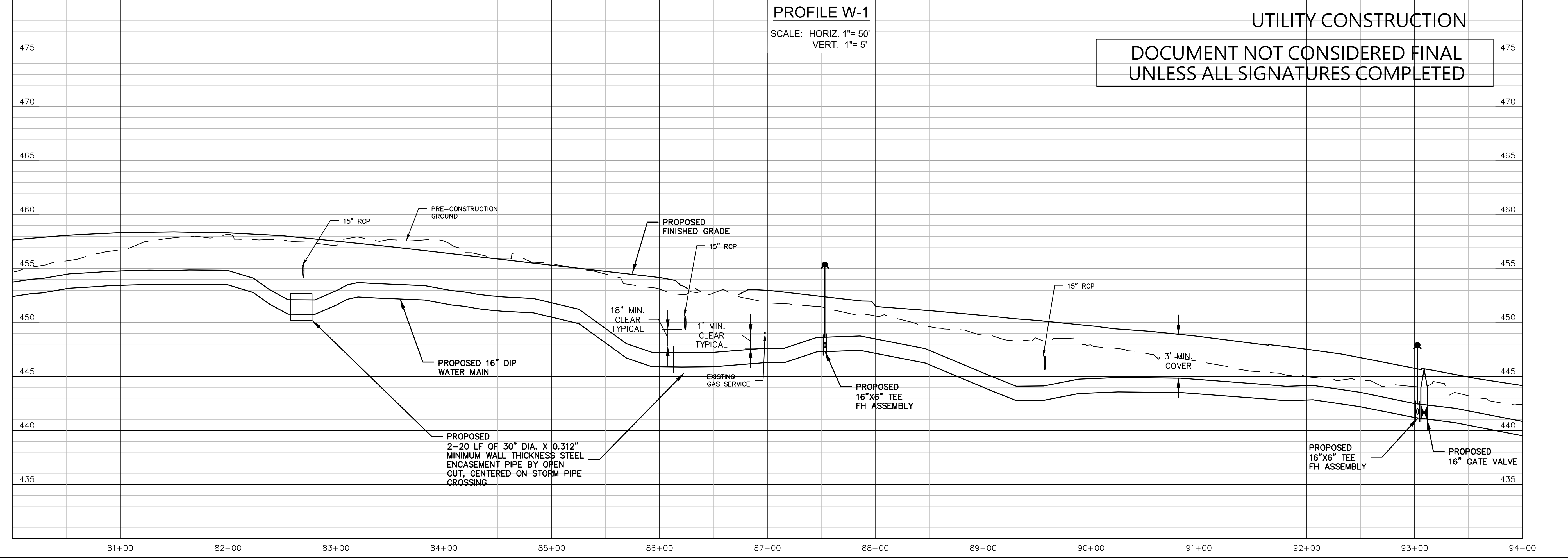
- PROPOSED 1,400 LF OF 16" WATER MAIN
  - PROPOSED 287 LF OF 1" WATER SERVICE
  - ABANDON EXISTING 16" WATER MAIN SHEET UC-10 TOTAL LENGTH = 1,396 LF
  - ABANDON EXISTING 6" WATER MAIN SHEET UC-10 TOTAL LENGTH = 70 LF
- THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 1,770 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

NO.	DATE	BY	REVISION DESCRIPTION

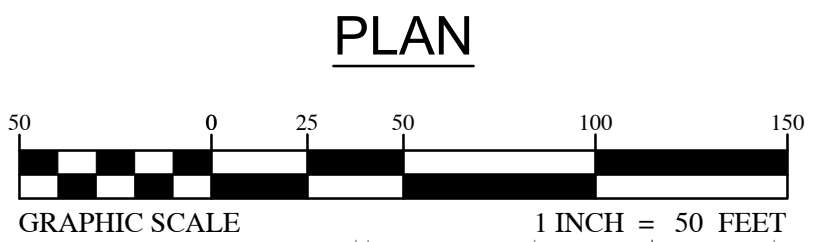
NOTE: LOCATIONS OF EXISTING UTILITIES AS SHOWN ARE APPROXIMATE ONLY. EXACT LOCATIONS ARE TO BE VERIFIED IN THE FIELD BY THE CONTRACTOR.

**PROFILE W-1**  
 SCALE: HORIZ. 1"= 50'  
 VERT. 1"= 5'

**UTILITY CONSTRUCTION**  
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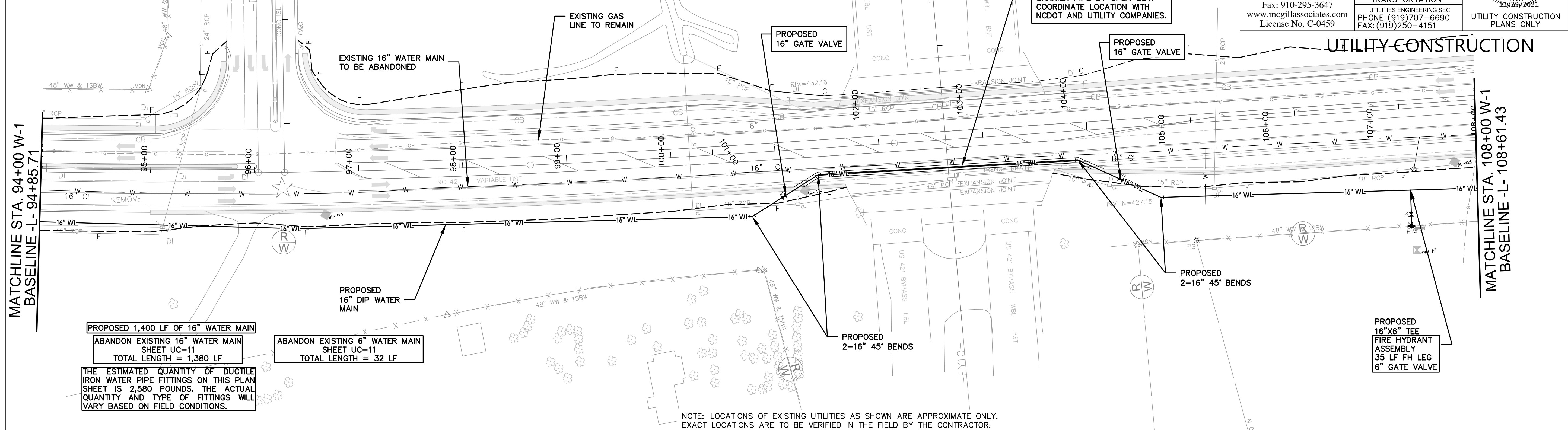
- NOTES:**
1. RELOCATE ALL EXISTING WATER LINE SERVICES TO THE NEW WATER LINE. FOLLOW CITY OF SANFORD STANDARD SERVICE CONNECTION DETAILS. COORDINATE SERVICE TIE OVER WITH PROPERTY OWNER AND CITY OF SANFORD.
  2. PROVIDE 18" MINIMUM VERTICAL CLEARANCE AT ALL DRAINAGE SYSTEM CROSSINGS.
  3. ABANDON WATER LINE IN LOCATIONS SHOWN. ABANDONMENT INCLUDES ALL FITTINGS AND APPURTENANCES. ABANDONMENT OF THE WATER LINE TO BE IN ACCORDANCE WITH THE CITY OF SANFORD'S AND NCDOT'S REQUIREMENTS.
  4. ALL ABANDONED LINES 8" OR LARGER SHALL BE FILLED WITH CDF.
  5. MAINTAIN MINIMUM 36" COVER BELOW FINISHED GRADE FOR ALL WATER LINES.



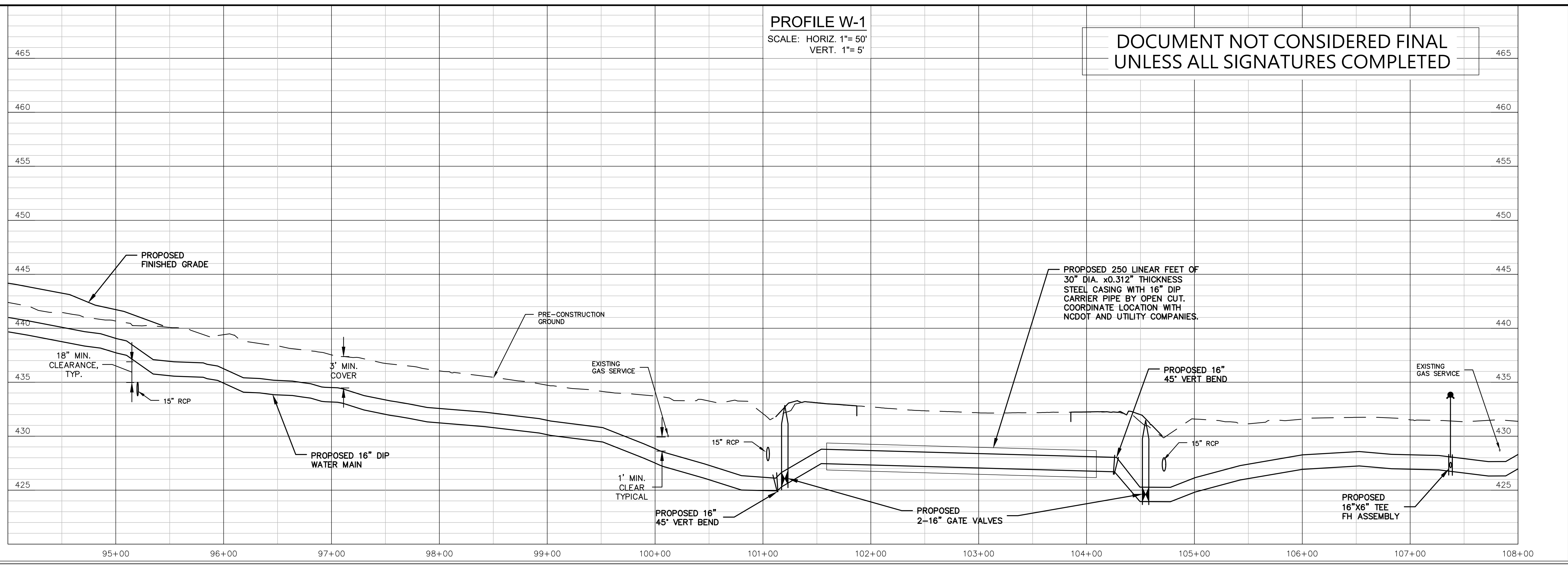
McGill Associates, P.A.  
5 Regional Circle, Suite A  
Pinehurst, NC 28374  
Tel: 910-295-3159  
Fax: 910-295-3647  
www.mcgillassociates.com  
License No. C-0459

PROJECT REFERENCE NO. R-3830	SHEET NO. UC-11
DESIGNED BY: DLH	
DRAWN BY: WW, MJ, BB	
CHECKED BY: DLH	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC.	
PHONE: (919)707-6690	
FAX: (919)250-4151	

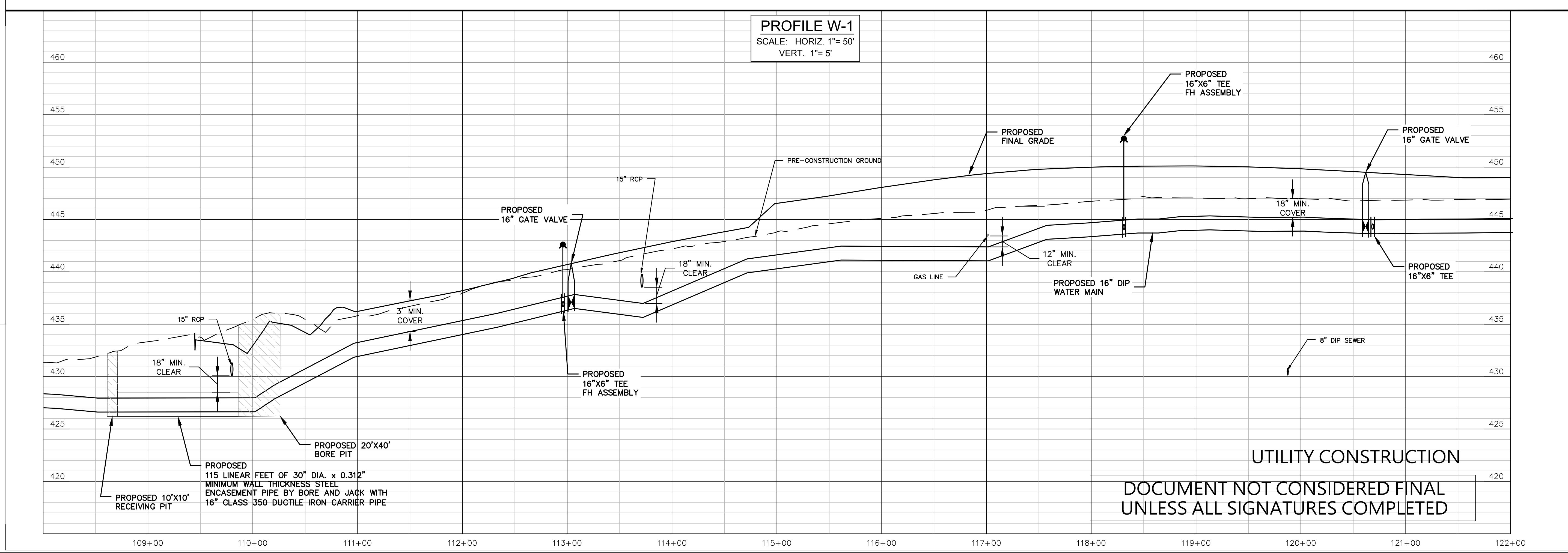
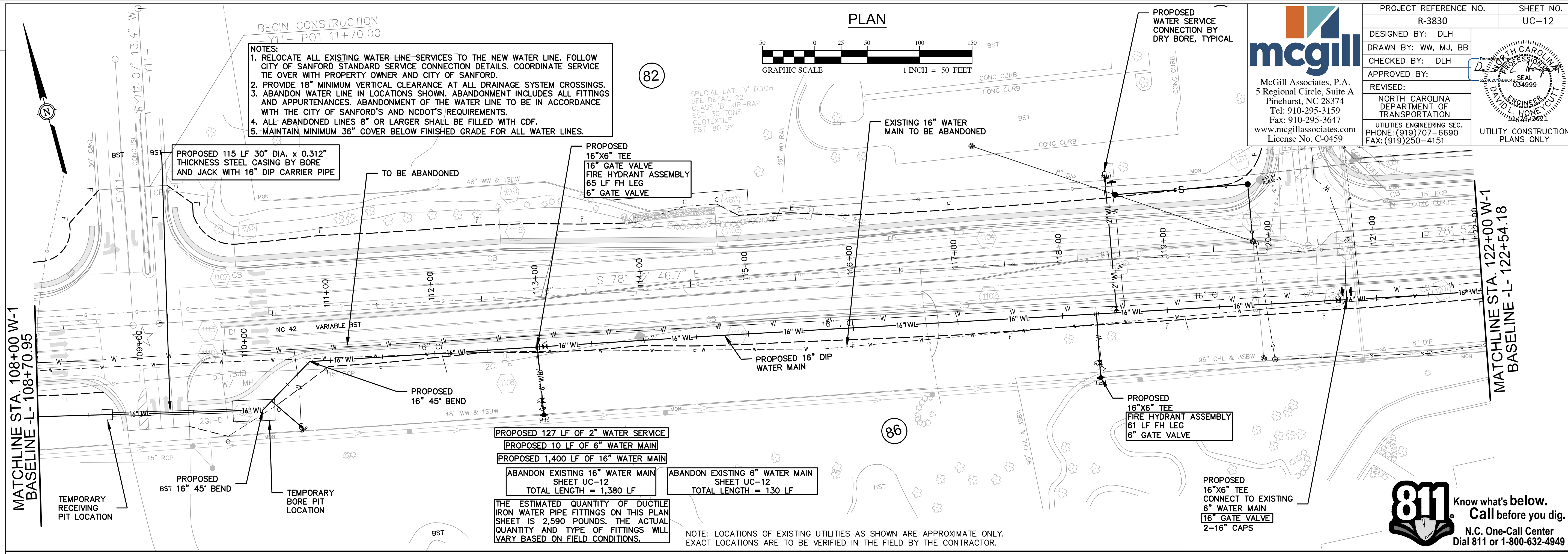
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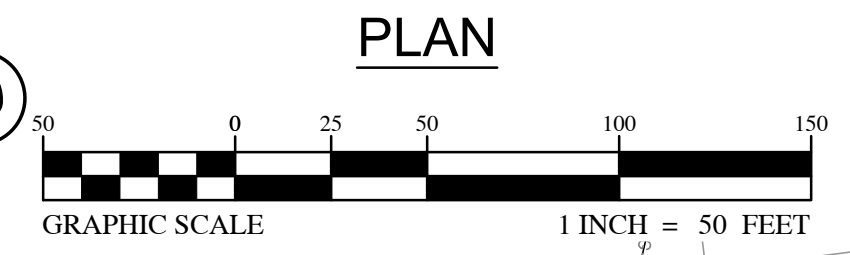
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83

- NOTES:
1. RELOCATE ALL EXISTING WATER LINE SERVICES TO THE NEW WATER LINE. FOLLOW CITY OF SANFORD STANDARD SERVICE CONNECTION DETAILS. COORDINATE SERVICE TIE OVER WITH PROPERTY OWNER AND CITY OF SANFORD.
  2. PROVIDE 18" MINIMUM VERTICAL CLEARANCE AT ALL DRAINAGE SYSTEM CROSSINGS.
  3. ABANDON WATER LINE IN LOCATIONS SHOWN. ABANDONMENT INCLUDES ALL FITTINGS AND APPURTENANCES. ABANDONMENT OF THE WATER LINE TO BE IN ACCORDANCE WITH THE CITY OF SANFORD'S AND NCDOT'S REQUIREMENTS.
  4. ALL ABANDONED LINES 8" OR LARGER SHALL BE FILLED WITH CDF.
  5. MAINTAIN MINIMUM 36" COVER BELOW FINISHED GRADE FOR ALL WATER LINES.

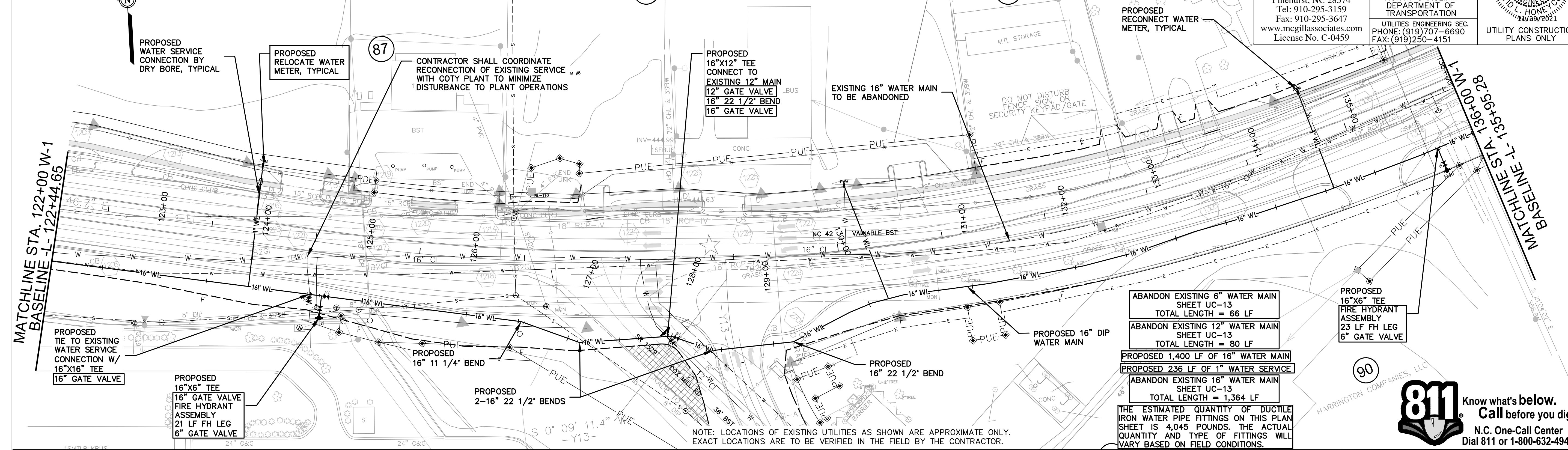
89



93

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www.mcgillassociates.com  
License No. C-0459

PROJECT REFERENCE NO. R-3830	SHEET NO. UC-13
DESIGNED BY: DLH	
DRAWN BY: WW, M.J., BB	
CHECKED BY: DLH	
APPROVED BY:	UTILITY CONSTRUCTION PLANS ONLY
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE: (919)707-6690 FAX: (919)250-4151	



ABANDON EXISTING 6" WATER MAIN  
SHEET UC-13  
TOTAL LENGTH = 66 LF

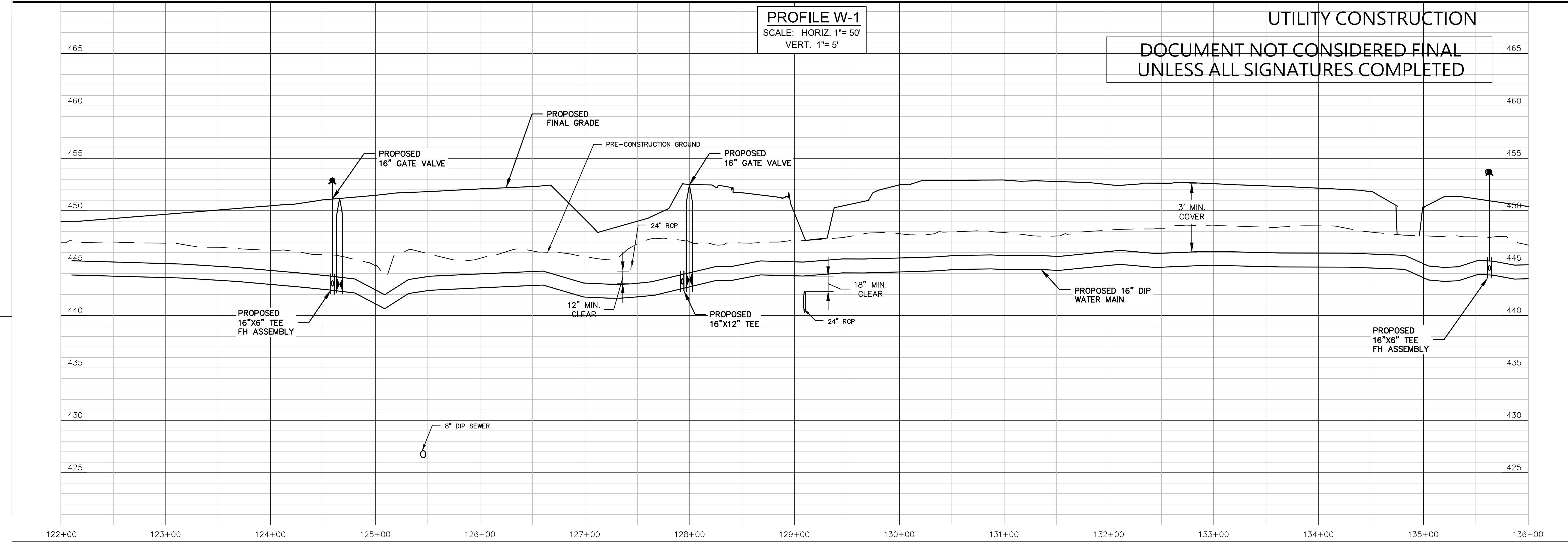
ABANDON EXISTING 12" WATER MAIN  
SHEET UC-13  
TOTAL LENGTH = 80 LF

PROPOSED 1,400 LF OF 16" WATER MAIN  
PROPOSED 236 LF OF 1" WATER SERVICE

ABANDON EXISTING 16" WATER MAIN  
SHEET UC-13  
TOTAL LENGTH = 1,364 LF

THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 4,045 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

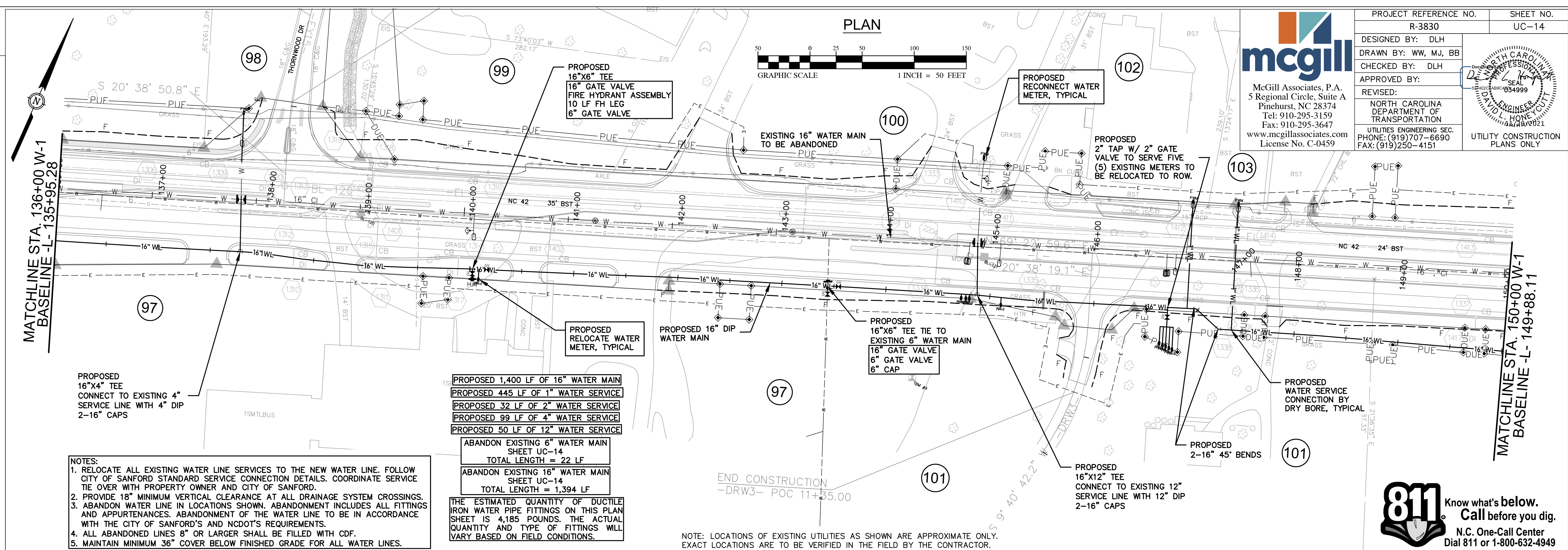
PROPOSED 16"X6" TEE  
FIRE HYDRANT ASSEMBLY  
23 LF FH LEG  
6" GATE VALVE



UTILITY CONSTRUCTION

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REVISIONS



- NOTES:**
1. RELOCATE ALL EXISTING WATER LINE SERVICES TO THE NEW WATER LINE. FOLLOW CITY OF SANFORD STANDARD SERVICE CONNECTION DETAILS. COORDINATE SERVICE TIE OVER WITH PROPERTY OWNER AND CITY OF SANFORD.
  2. PROVIDE 18" MINIMUM VERTICAL CLEARANCE AT ALL DRAINAGE SYSTEM CROSSINGS.
  3. ABANDON WATER LINE IN LOCATIONS SHOWN. ABANDONMENT INCLUDES ALL FITTINGS AND APPURTENANCES. ABANDONMENT OF THE WATER LINE TO BE IN ACCORDANCE WITH THE CITY OF SANFORD'S AND NCDOT'S REQUIREMENTS.
  4. ALL ABANDONED LINES 8" OR LARGER SHALL BE FILLED WITH CDF.
  5. MAINTAIN MINIMUM 36" COVER BELOW FINISHED GRADE FOR ALL WATER LINES.

- PROPOSED 1,400 LF OF 16" WATER MAIN**  
**PROPOSED 445 LF OF 1" WATER SERVICE**  
**PROPOSED 32 LF OF 2" WATER SERVICE**  
**PROPOSED 99 LF OF 4" WATER SERVICE**  
**PROPOSED 50 LF OF 12" WATER SERVICE**
- ABANDON EXISTING 6" WATER MAIN**  
 SHEET UC-14  
**TOTAL LENGTH = 22 LF**
- ABANDON EXISTING 16" WATER MAIN**  
 SHEET UC-14  
**TOTAL LENGTH = 1,394 LF**
- THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 4,185 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

NOTE: LOCATIONS OF EXISTING UTILITIES AS SHOWN ARE APPROXIMATE ONLY. EXACT LOCATIONS ARE TO BE VERIFIED IN THE FIELD BY THE CONTRACTOR.

**PROJECT REFERENCE NO.**  
R-3830

**SHEET NO.**  
UC-14

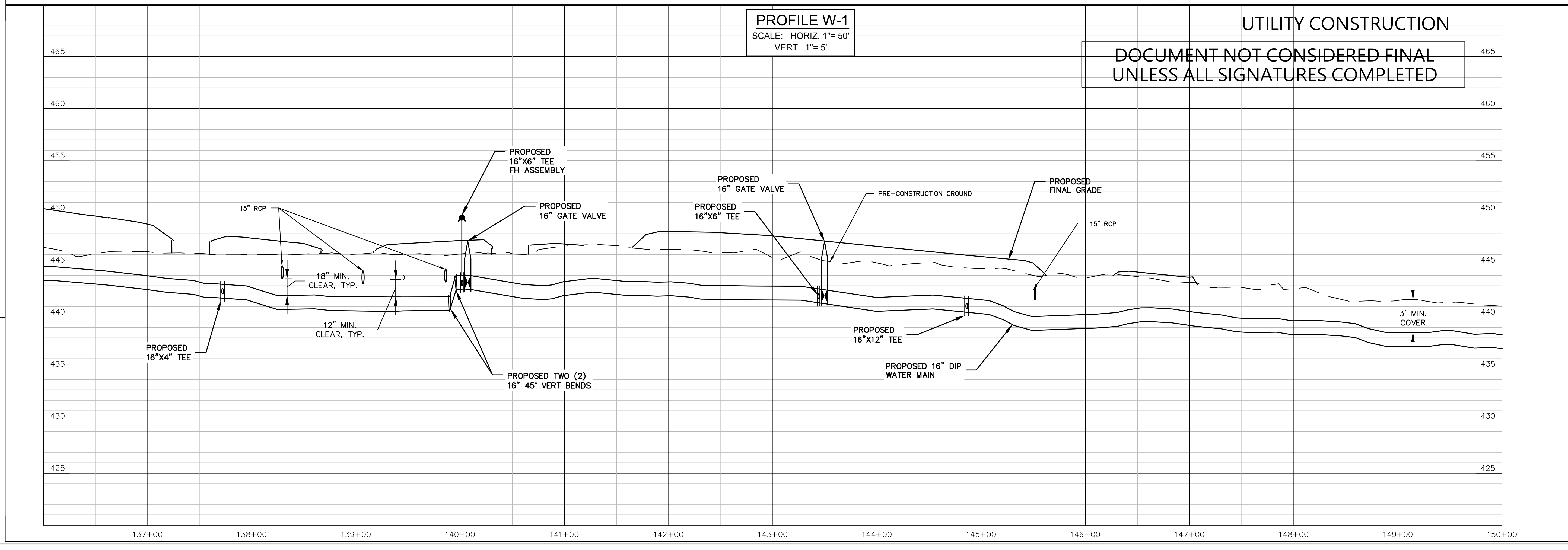
**DESIGNED BY:** DLH  
**DRAWN BY:** WW, MJ, BB  
**CHECKED BY:** DLH  
**APPROVED BY:**

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

**McGill Associates, P.A.**  
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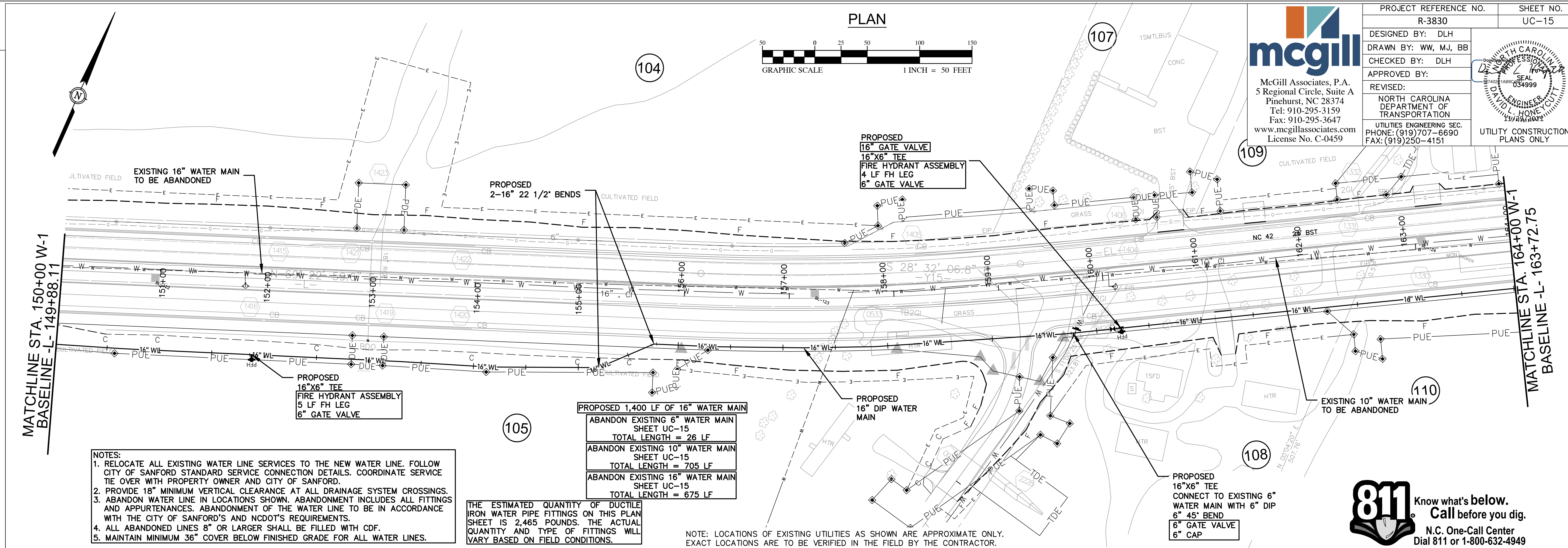
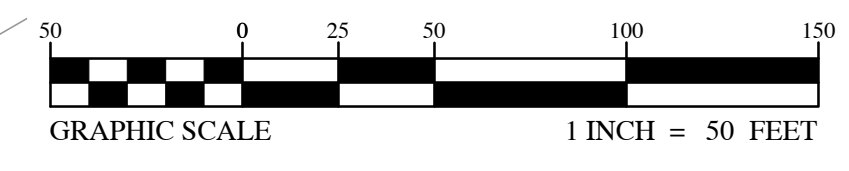


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 N.C. One-Call Center  
 Dial 811 or 1-800-632-4949

### PLAN



- NOTES:**
1. RELOCATE ALL EXISTING WATER LINE SERVICES TO THE NEW WATER LINE. FOLLOW CITY OF SANFORD STANDARD SERVICE CONNECTION DETAILS. COORDINATE SERVICE TIE OVER WITH PROPERTY OWNER AND CITY OF SANFORD.
  2. PROVIDE 18" MINIMUM VERTICAL CLEARANCE AT ALL DRAINAGE SYSTEM CROSSINGS.
  3. ABANDON WATER LINE IN LOCATIONS SHOWN. ABANDONMENT INCLUDES ALL FITTINGS AND APPURTENANCES. ABANDONMENT OF THE WATER LINE TO BE IN ACCORDANCE WITH THE CITY OF SANFORD'S AND NCDOT'S REQUIREMENTS.
  4. ALL ABANDONED LINES 8" OR LARGER SHALL BE FILLED WITH CDF.
  5. MAINTAIN MINIMUM 36" COVER BELOW FINISHED GRADE FOR ALL WATER LINES.

THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 2,465 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

PROPOSED 1,400 LF OF 16" WATER MAIN
ABANDON EXISTING 6" WATER MAIN SHEET UC-15
TOTAL LENGTH = 26 LF
ABANDON EXISTING 10" WATER MAIN SHEET UC-15
TOTAL LENGTH = 705 LF
ABANDON EXISTING 16" WATER MAIN SHEET UC-15
TOTAL LENGTH = 675 LF

NOTE: LOCATIONS OF EXISTING UTILITIES AS SHOWN ARE APPROXIMATE ONLY. EXACT LOCATIONS ARE TO BE VERIFIED IN THE FIELD BY THE CONTRACTOR.

**PROJECT REFERENCE NO.**  
R-3830

**DESIGNED BY:** DLH

**DRAWN BY:** WW, MJ, BB

**CHECKED BY:** DLH

**APPROVED BY:**

**REVISED:**

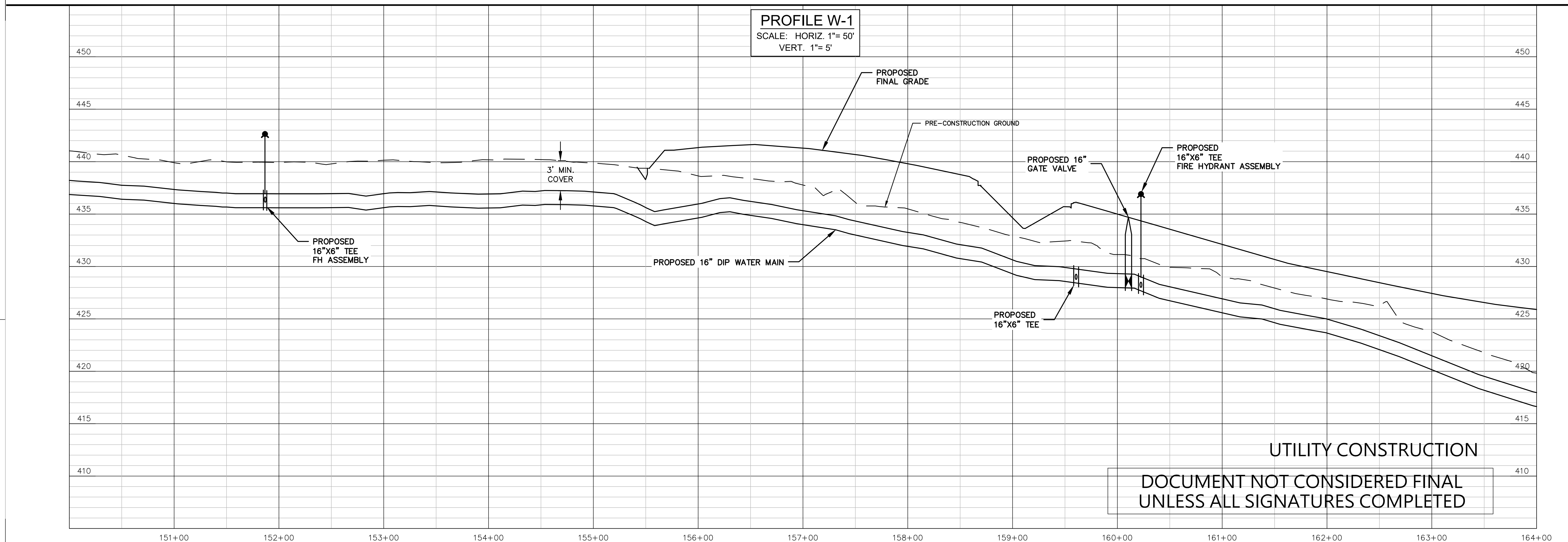
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

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

**SHEET NO.**  
UC-15

McGill Associates, P.A.  
5 Regional Circle, Suite A  
Pinehurst, NC 28374  
Tel: 910-295-3159  
Fax: 910-295-3647  
www.mcgillassociates.com  
License No. C-0459

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Call before you dig.  
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Dial 811 or 1-800-632-4949



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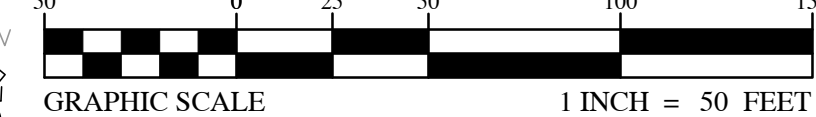
REVISIONS



112 CONNECT TO EXISTING 16" WATER MAIN IN SHOULDER, 16" CAP

EXISTING 10" WATER MAIN TO BE ABANDONED

PLAN



PROJECT REFERENCE NO.	R-3830	SHEET NO.	UC-16
DESIGNED BY:	DLH		
DRAWN BY:	WW, MJ, BB		
CHECKED BY:	DLH		
APPROVED BY:			
REVISED:			
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION			
UTILITIES ENGINEERING SEC.			
PHONE: (919) 707-6690			
FAX: (919) 250-4151			
McGill Associates, P.A. 5 Regional Circle, Suite A Pinehurst, NC 28374 Tel: 910-295-3159 Fax: 910-295-3647 www.mcgillassociates.com License No. C-0459			
UTILITY CONSTRUCTION PLANS ONLY			

MATCHLINE STA. 164+00 W-1  
BASELINE -L- 163+72.75

PROPOSED 40 LF 30" DIA. x 0.312" THICKNESS STEEL ENCASEMENT PIPE BY OPEN CUT WITH 16" DIP CARRIER PIPE

PROPOSED 42 LF 30" DIA. x 0.312" THICKNESS STEEL ENCASEMENT PIPE BY BORE AND JACK WITH 16" DIP CARRIER PIPE

PROPOSED 16"x16" TEE  
16" GATE VALVE  
12" GATE VALVE  
16"x12" REDUCER  
2-10" CAPS

PROPOSED 16"x6" TEE  
FIRE HYDRANT ASSEMBLY  
4 LF FH LEG  
6" GATE VALVE

PROPOSED 1,030 LF OF 12" WATER MAIN  
 PROPOSED 370 LF OF 16" WATER MAIN  
 PROPOSED 270 LF OF 1" WATER SERVICE

ABANDON EXISTING 6" WATER MAIN  
SHEET UC-16  
TOTAL LENGTH = 10 LF

ABANDON EXISTING 10" WATER MAIN  
SHEET UC-16  
TOTAL LENGTH = 1,418 LF

ABANDON EXISTING 16" WATER MAIN  
SHEET UC-16  
TOTAL LENGTH = 50 LF

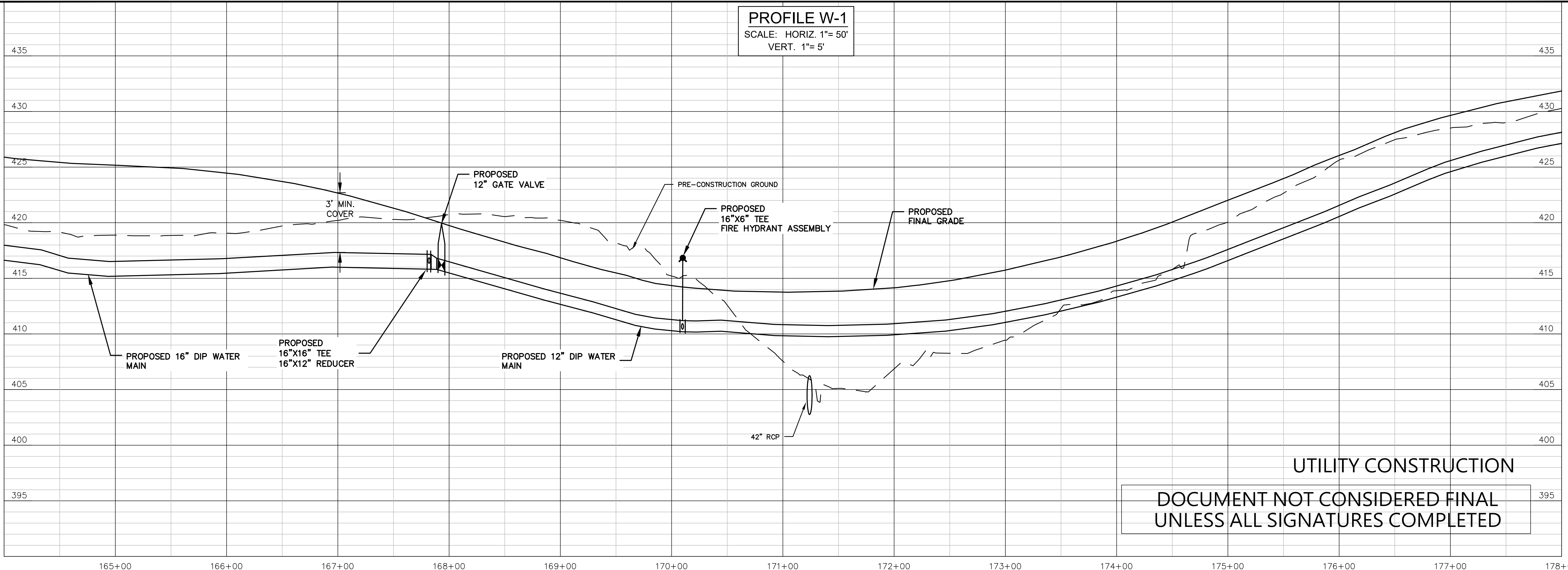
THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 2,375 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

NOTE: LOCATIONS OF EXISTING UTILITIES AS SHOWN ARE APPROXIMATE ONLY. EXACT LOCATIONS ARE TO BE VERIFIED IN THE FIELD BY THE CONTRACTOR.

- NOTES:
1. RELOCATE ALL EXISTING WATER LINE SERVICES TO THE NEW WATER LINE. FOLLOW CITY OF SANFORD STANDARD SERVICE CONNECTION DETAILS. COORDINATE SERVICE TIE OVER WITH PROPERTY OWNER AND CITY OF SANFORD.
  2. PROVIDE 18" MINIMUM VERTICAL CLEARANCE AT ALL DRAINAGE SYSTEM CROSSINGS.
  3. ABANDON WATER LINE IN LOCATIONS SHOWN. ABANDONMENT INCLUDES ALL FITTINGS AND APPURTENANCES. ABANDONMENT OF THE WATER LINE TO BE IN ACCORDANCE WITH THE CITY OF SANFORD'S AND NCDOT'S REQUIREMENTS.
  4. ALL ABANDONED LINES 8" OR LARGER SHALL BE FILLED WITH CDF.
  5. MAINTAIN MINIMUM 36" COVER BELOW FINISHED GRADE FOR ALL WATER LINES.

NO.	DATE	BY	REVISION DESCRIPTION

PROFILE W-1  
SCALE: HORIZ. 1"= 50'  
VERT. 1"= 5'

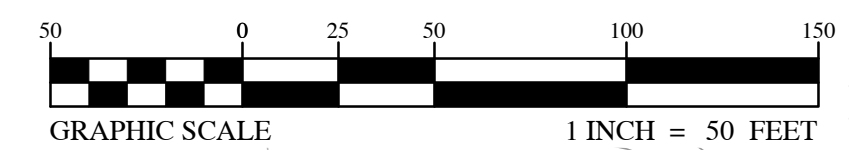


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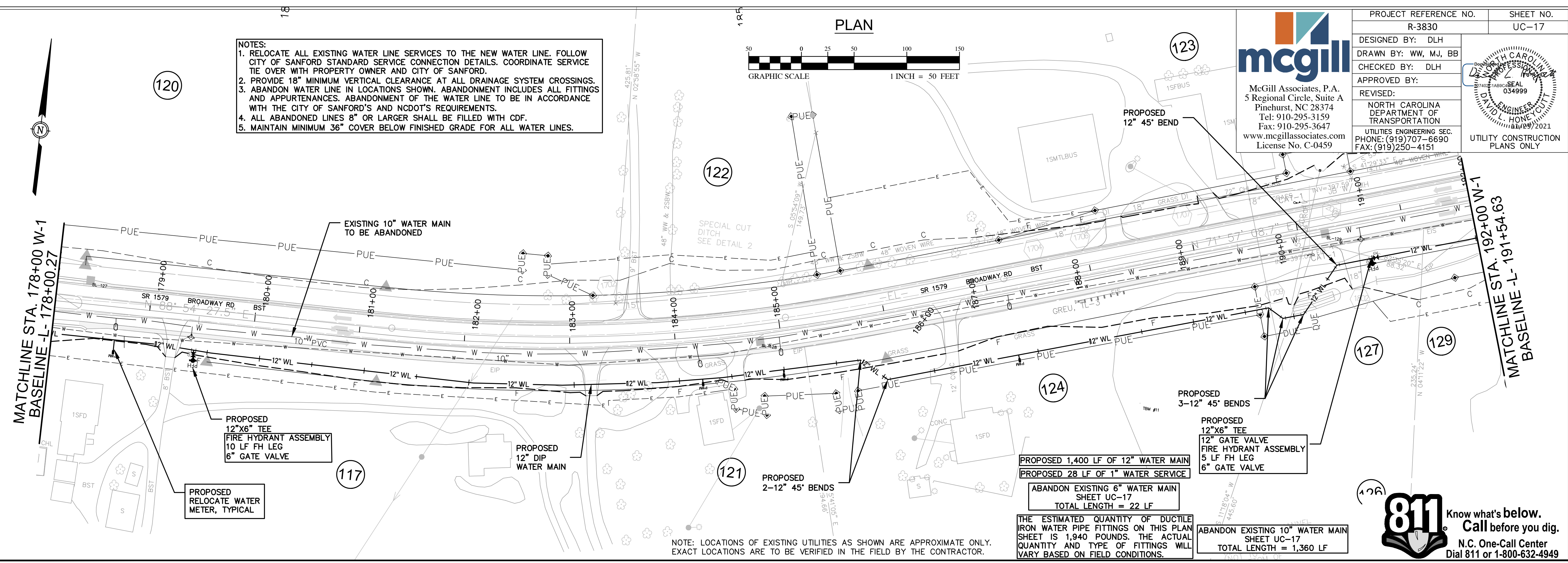
- NOTES:
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  2. PROVIDE 18" MINIMUM VERTICAL CLEARANCE AT ALL DRAINAGE SYSTEM CROSSINGS.
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  4. ALL ABANDONED LINES 8" OR LARGER SHALL BE FILLED WITH CDF.
  5. MAINTAIN MINIMUM 36" COVER BELOW FINISHED GRADE FOR ALL WATER LINES.

PLAN



McGill Associates, P.A.  
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Pinehurst, NC 28374  
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Fax: 910-295-3647  
www.mcgillassociates.com  
License No. C-0459

PROJECT REFERENCE NO. R-3830	SHEET NO. UC-17
DESIGNED BY: DLH	
DRAWN BY: WW, MJ, BB	
CHECKED BY: DLH	
APPROVED BY:	REVISER:
	NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
	UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151
	UTILITY CONSTRUCTION PLANS ONLY



PROPOSED 1,400 LF OF 12" WATER MAIN  
PROPOSED 28 LF OF 1" WATER SERVICE  
ABANDON EXISTING 6" WATER MAIN  
SHEET UC-17  
TOTAL LENGTH = 22 LF

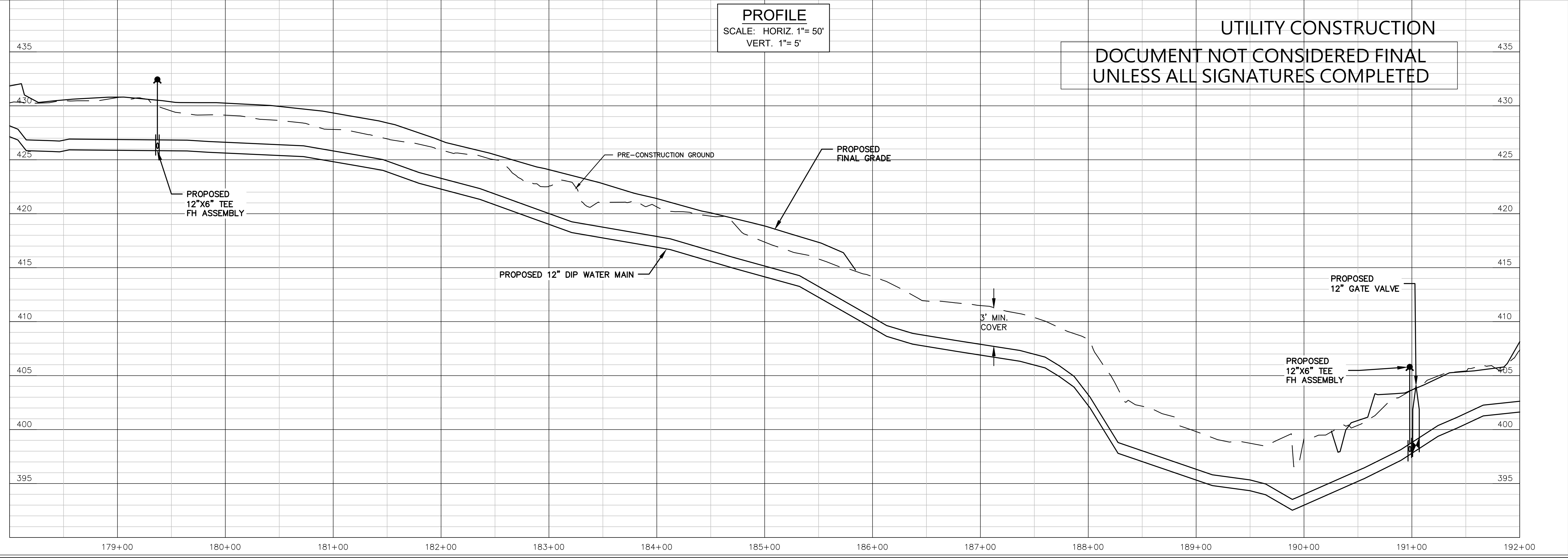
THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 1,940 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

ABANDON EXISTING 10" WATER MAIN  
SHEET UC-17  
TOTAL LENGTH = 1,360 LF

NOTE: LOCATIONS OF EXISTING UTILITIES AS SHOWN ARE APPROXIMATE ONLY. EXACT LOCATIONS ARE TO BE VERIFIED IN THE FIELD BY THE CONTRACTOR.

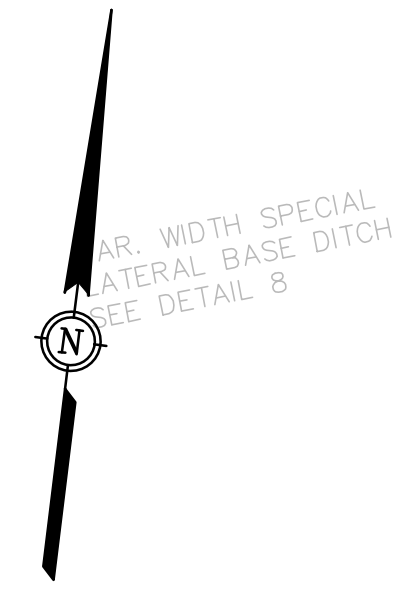
Know what's below.  
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Dial 811 or 1-800-632-4949

PROFILE  
SCALE: HORIZ. 1"= 50'  
VERT. 1"= 5'



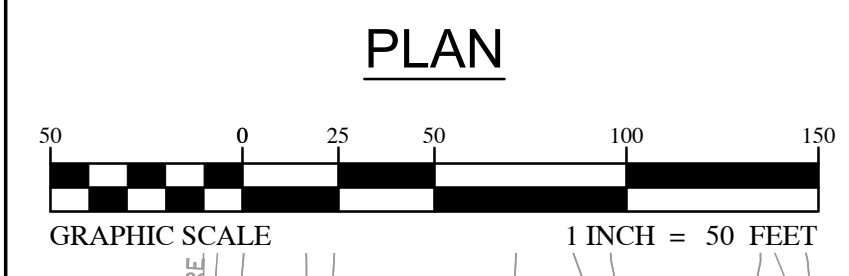
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REVISIONS



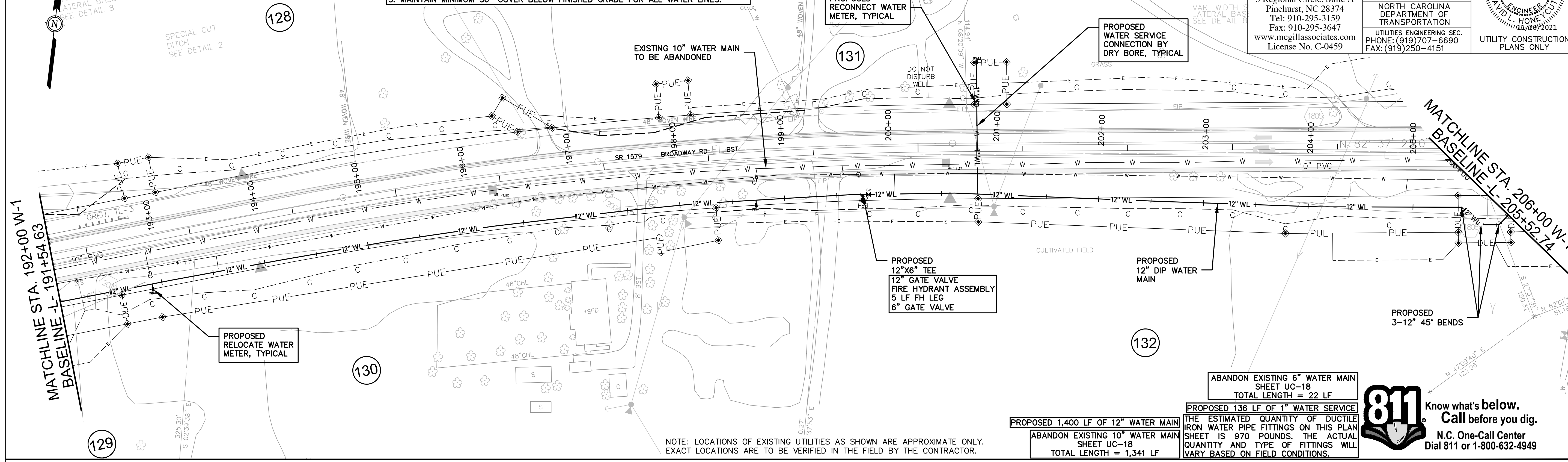
VAR. WIDTH SPECIAL LATERAL BASE DITCH SEE DETAIL 8  
SPECIAL CUT DITCH SEE DETAIL 2

- NOTES:**
1. RELOCATE ALL EXISTING WATER LINE SERVICES TO THE NEW WATER LINE. FOLLOW CITY OF SANFORD STANDARD SERVICE CONNECTION DETAILS. COORDINATE SERVICE TIE OVER WITH PROPERTY OWNER AND CITY OF SANFORD.
  2. PROVIDE 18" MINIMUM VERTICAL CLEARANCE AT ALL DRAINAGE SYSTEM CROSSINGS.
  3. ABANDON WATER LINE IN LOCATIONS SHOWN. ABANDONMENT INCLUDES ALL FITTINGS AND APPURTENANCES. ABANDONMENT OF THE WATER LINE TO BE IN ACCORDANCE WITH THE CITY OF SANFORD'S AND NCDOT'S REQUIREMENTS.
  4. ALL ABANDONED LINES 8" OR LARGER SHALL BE FILLED WITH CDF.
  5. MAINTAIN MINIMUM 36" COVER BELOW FINISHED GRADE FOR ALL WATER LINES.



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www.mcgillassociates.com  
License No. C-0459

PROJECT REFERENCE NO. R-3830	SHEET NO. UC-18
DESIGNED BY: DLH	
DRAWN BY: WW, MJ, BB	
CHECKED BY: DLH	
APPROVED BY:	UTILITY CONSTRUCTION PLANS ONLY
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919)707-6690 FAX: (919)250-4151	



MATCHLINE STA. 192+00 W-1  
BASELINE L- 191+54.63

MATCHLINE STA. 206+00 W-1  
BASELINE L- 205+52.74

PROPOSED 1,400 LF OF 12" WATER MAIN  
ABANDON EXISTING 10" WATER MAIN SHEET UC-18  
TOTAL LENGTH = 1,341 LF

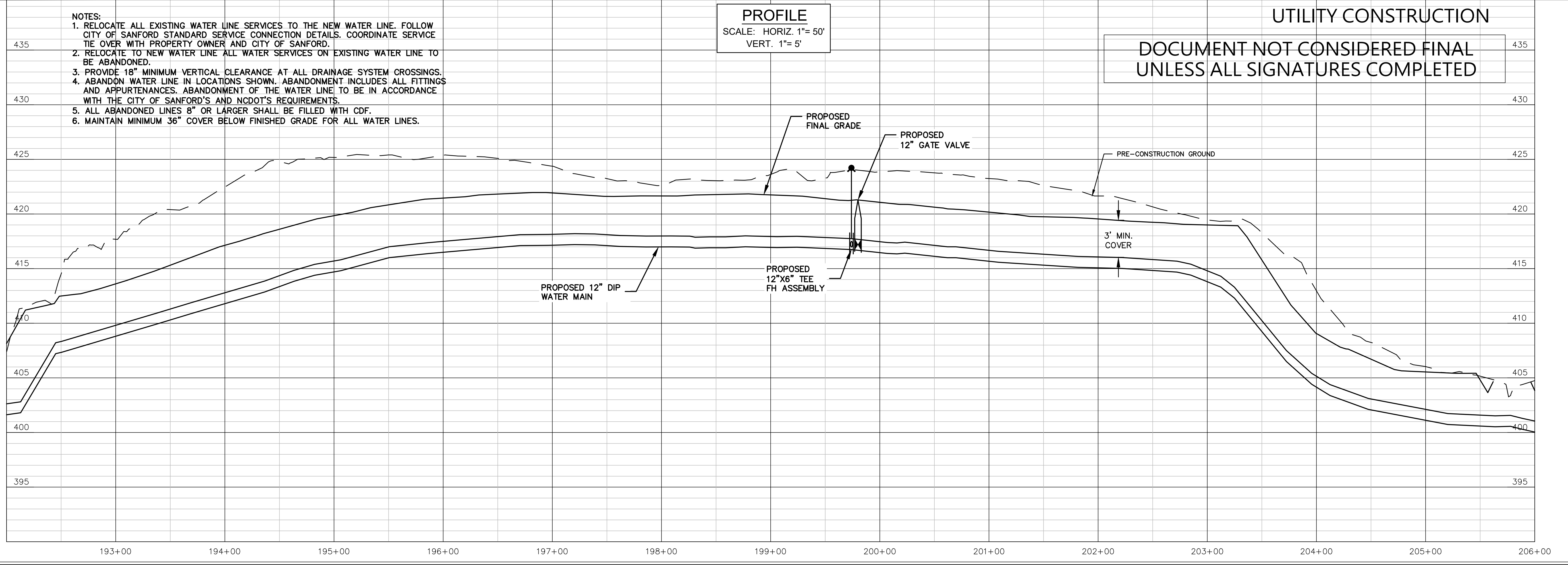
PROPOSED 136 LF OF 1" WATER SERVICE  
THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 970 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

ABANDON EXISTING 6" WATER MAIN SHEET UC-18  
TOTAL LENGTH = 22 LF

**811** Know what's below.  
Call before you dig.  
N.C. One-Call Center  
Dial 811 or 1-800-632-4949

NOTE: LOCATIONS OF EXISTING UTILITIES AS SHOWN ARE APPROXIMATE ONLY. EXACT LOCATIONS ARE TO BE VERIFIED IN THE FIELD BY THE CONTRACTOR.

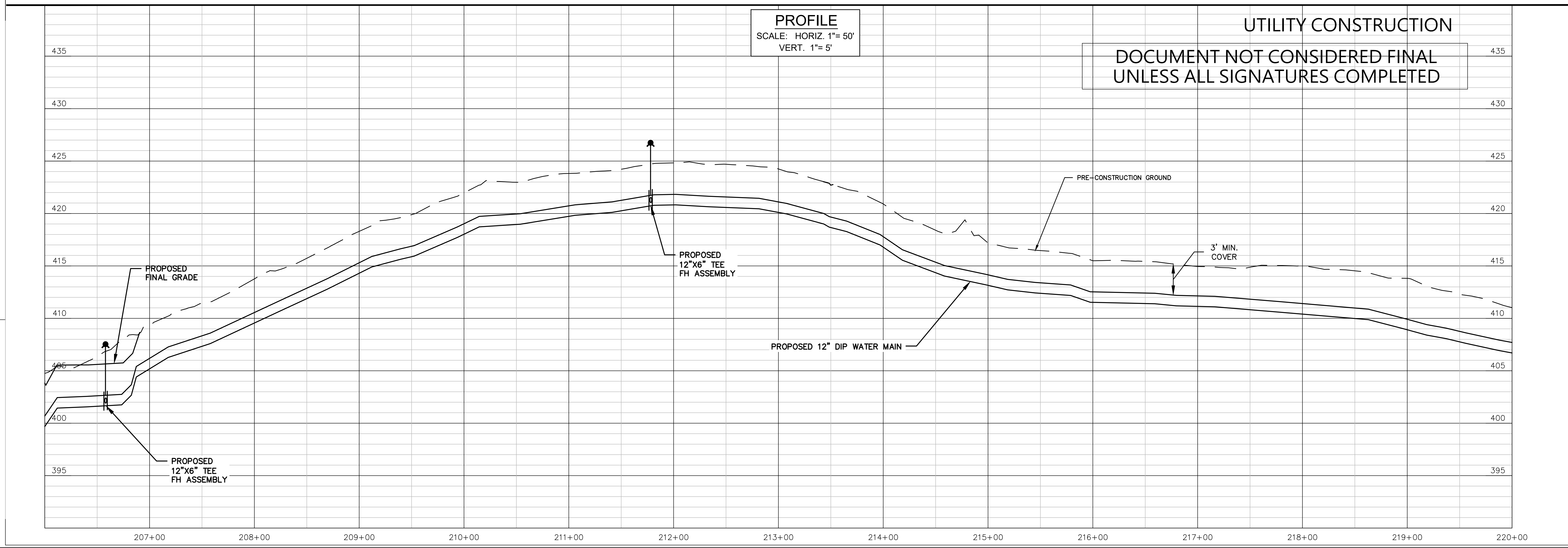
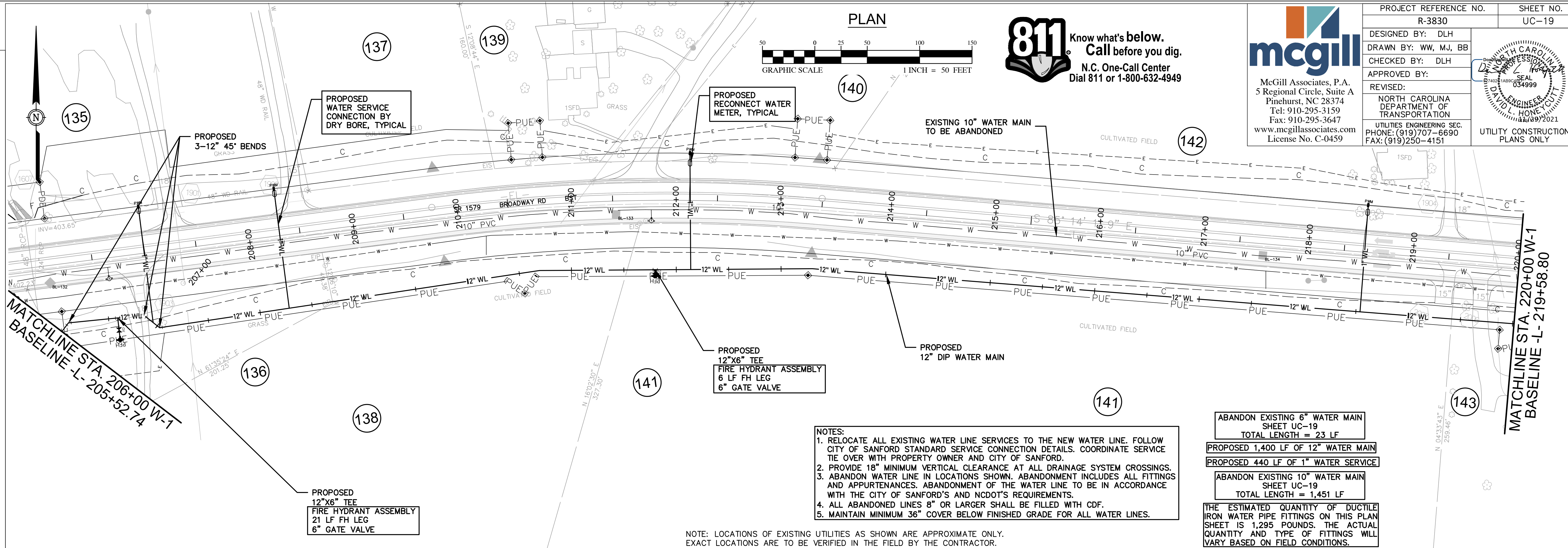
REVISIONS

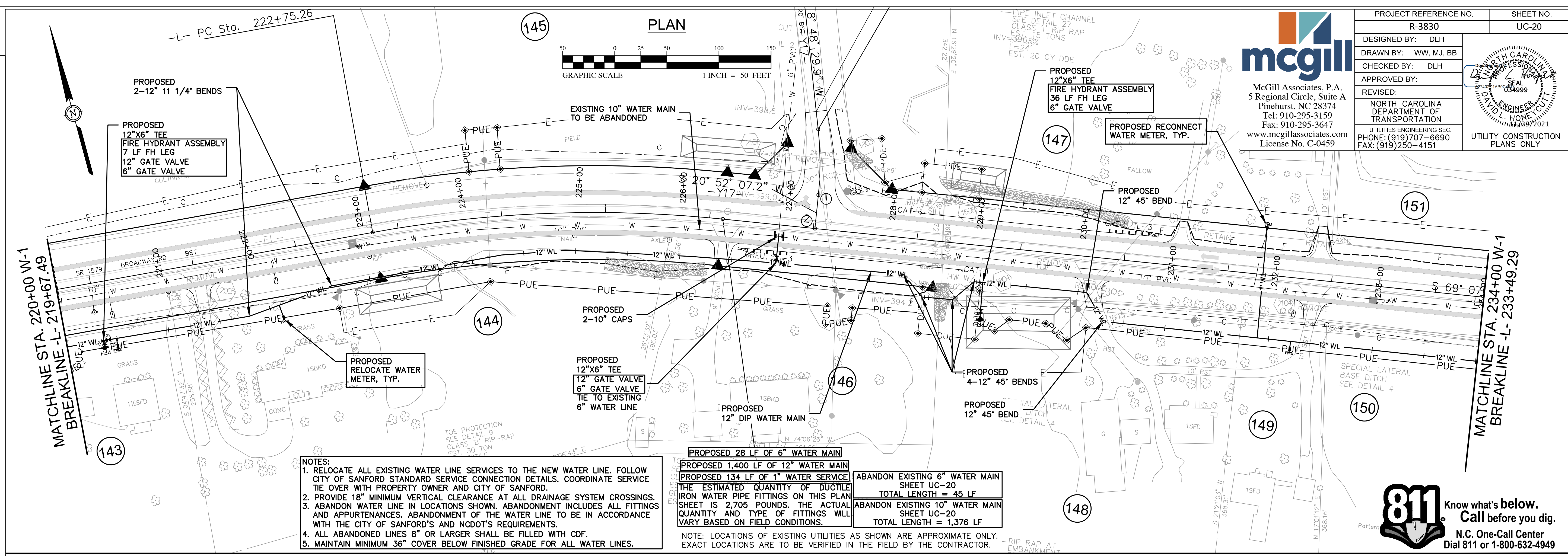


- NOTES:**
1. RELOCATE ALL EXISTING WATER LINE SERVICES TO THE NEW WATER LINE. FOLLOW CITY OF SANFORD STANDARD SERVICE CONNECTION DETAILS. COORDINATE SERVICE TIE OVER WITH PROPERTY OWNER AND CITY OF SANFORD.
  2. RELOCATE TO NEW WATER LINE ALL WATER SERVICES ON EXISTING WATER LINE TO BE ABANDONED.
  3. PROVIDE 18" MINIMUM VERTICAL CLEARANCE AT ALL DRAINAGE SYSTEM CROSSINGS.
  4. ABANDON WATER LINE IN LOCATIONS SHOWN. ABANDONMENT INCLUDES ALL FITTINGS AND APPURTENANCES. ABANDONMENT OF THE WATER LINE TO BE IN ACCORDANCE WITH THE CITY OF SANFORD'S AND NCDOT'S REQUIREMENTS.
  5. ALL ABANDONED LINES 8" OR LARGER SHALL BE FILLED WITH CDF.
  6. MAINTAIN MINIMUM 36" COVER BELOW FINISHED GRADE FOR ALL WATER LINES.

**UTILITY CONSTRUCTION**

**DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED**





- NOTES:**
1. RELOCATE ALL EXISTING WATER LINE SERVICES TO THE NEW WATER LINE. FOLLOW CITY OF SANFORD STANDARD SERVICE CONNECTION DETAILS. COORDINATE SERVICE TIE OVER WITH PROPERTY OWNER AND CITY OF SANFORD.
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  4. ALL ABANDONED LINES 8" OR LARGER SHALL BE FILLED WITH CDF.
  5. MAINTAIN MINIMUM 36" COVER BELOW FINISHED GRADE FOR ALL WATER LINES.

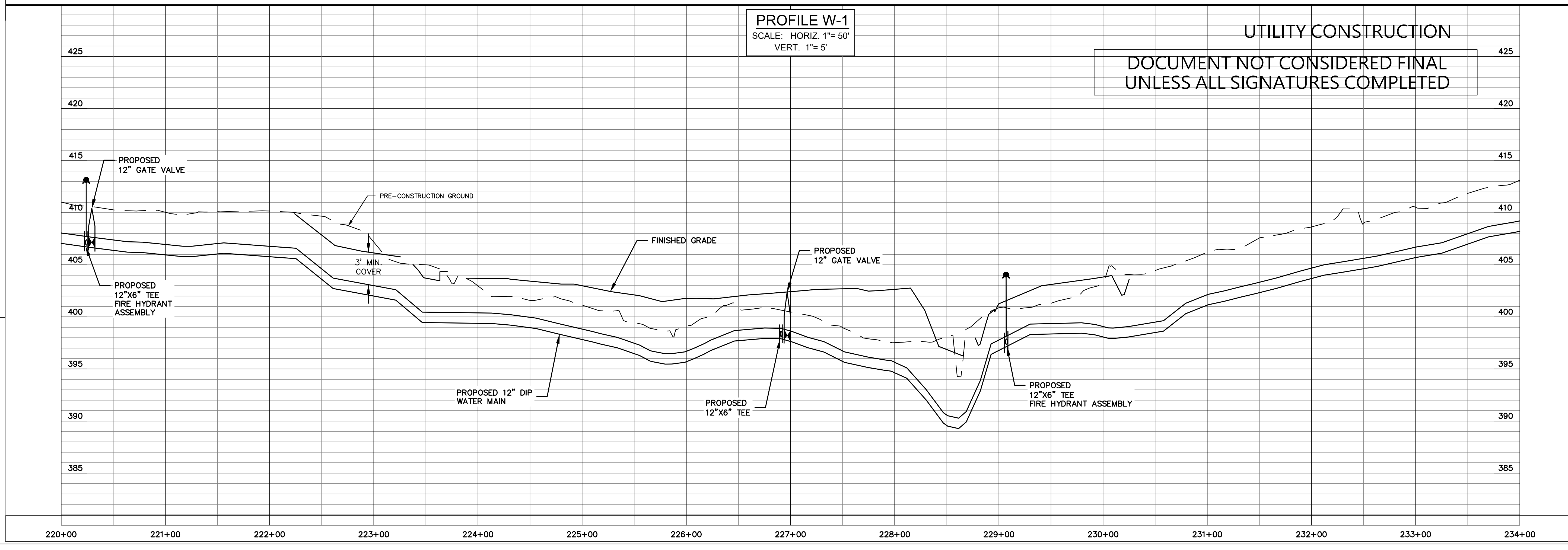
**mcgill**  
 McGill Associates, P.A.  
 5 Regional Circle, Suite A  
 Pinehurst, NC 28374  
 Tel: 910-295-3159  
 Fax: 910-295-3647  
 www.mcgillassociates.com  
 License No. C-0459

PROJECT REFERENCE NO. R-3830  
 SHEET NO. UC-20

DESIGNED BY: DLH  
 DRAWN BY: WW, MJ, BB  
 CHECKED BY: DLH  
 APPROVED BY:

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

UTILITY CONSTRUCTION PLANS ONLY

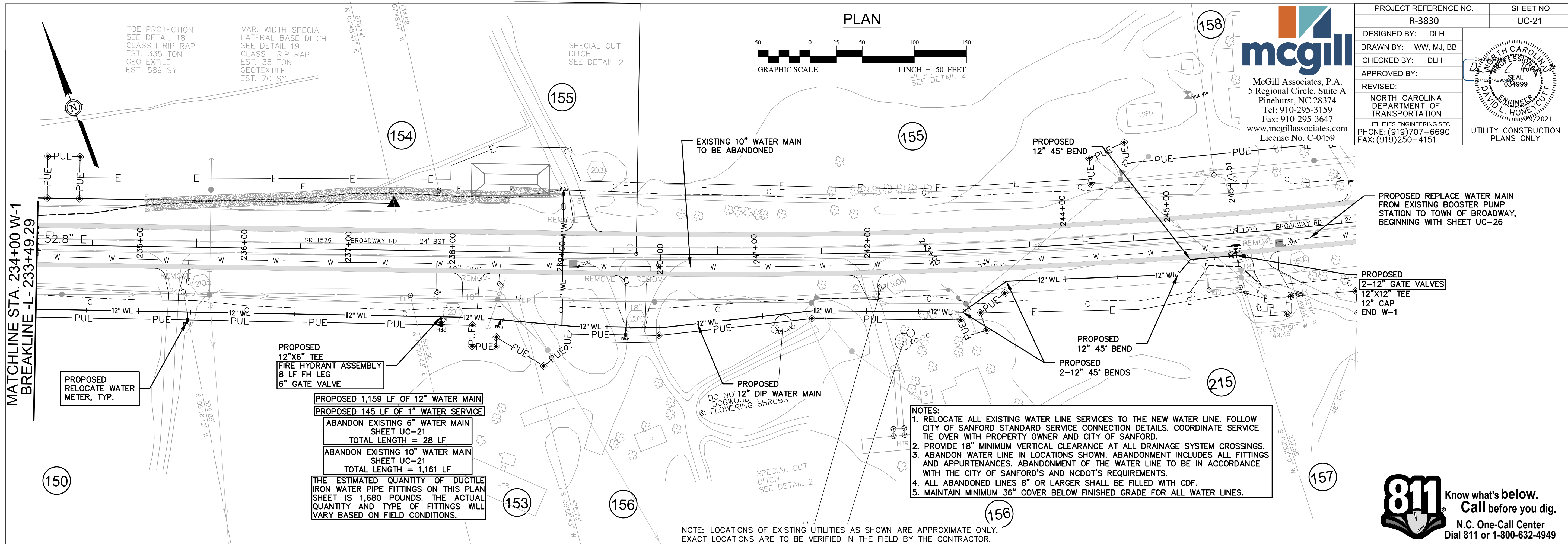


**UTILITY CONSTRUCTION**

DOCUMENT NOT CONSIDERED FINAL  
 UNLESS ALL SIGNATURES COMPLETED

**811** Know what's below.  
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 N.C. One-Call Center  
 Dial 811 or 1-800-632-4949

REVISIONS



PROJECT REFERENCE NO. R-3830	SHEET NO. UC-21
DESIGNED BY: DLH	
DRAWN BY: WW, MJ, BB	
CHECKED BY: DLH	NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919)707-6690 FAX: (919)250-4151
APPROVED BY:	
REVISER:	UTILITY CONSTRUCTION PLANS ONLY

REVISIONS

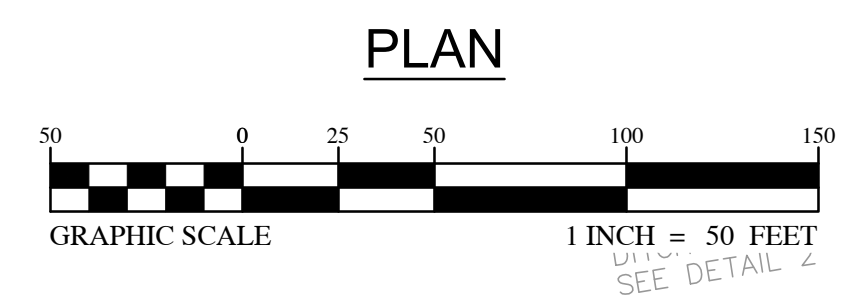
MATCHLINE STA. 234+00 W-1  
BREAKLINE -L- 233+49.29

150

TOE PROTECTION  
SEE DETAIL 18  
CLASS 1 RIP RAP  
EST. 335 TON  
GEOTEXTILE  
EST. 589 SY

VAR. WIDTH SPECIAL  
LATERAL BASE DITCH  
SEE DETAIL 19  
CLASS 1 RIP RAP  
EST. 38 TON  
GEOTEXTILE  
EST. 70 SY

SPECIAL CUT  
DITCH  
SEE DETAIL 2



158

**mcgill**  
McGill Associates, P.A.  
5 Regional Circle, Suite A  
Pinehurst, NC 28374  
Tel: 910-295-3159  
Fax: 910-295-3647  
www.mcgillassociates.com  
License No. C-0459

PROPOSED REPLACE WATER MAIN  
FROM EXISTING BOOSTER PUMP  
STATION TO TOWN OF BROADWAY,  
BEGINNING WITH SHEET UC-26

PROPOSED  
2-12" GATE VALVES  
12"x12" TEE  
12" CAP  
END W-1

PROPOSED  
RELOCATE WATER  
METER, TYP.

PROPOSED  
12"x6" TEE  
FIRE HYDRANT ASSEMBLY  
8 LF FH LEG  
6" GATE VALVE

PROPOSED 1,159 LF OF 12" WATER MAIN  
PROPOSED 145 LF OF 1" WATER SERVICE

ABANDON EXISTING 6" WATER MAIN  
SHEET UC-21  
TOTAL LENGTH = 28 LF

ABANDON EXISTING 10" WATER MAIN  
SHEET UC-21  
TOTAL LENGTH = 1,161 LF

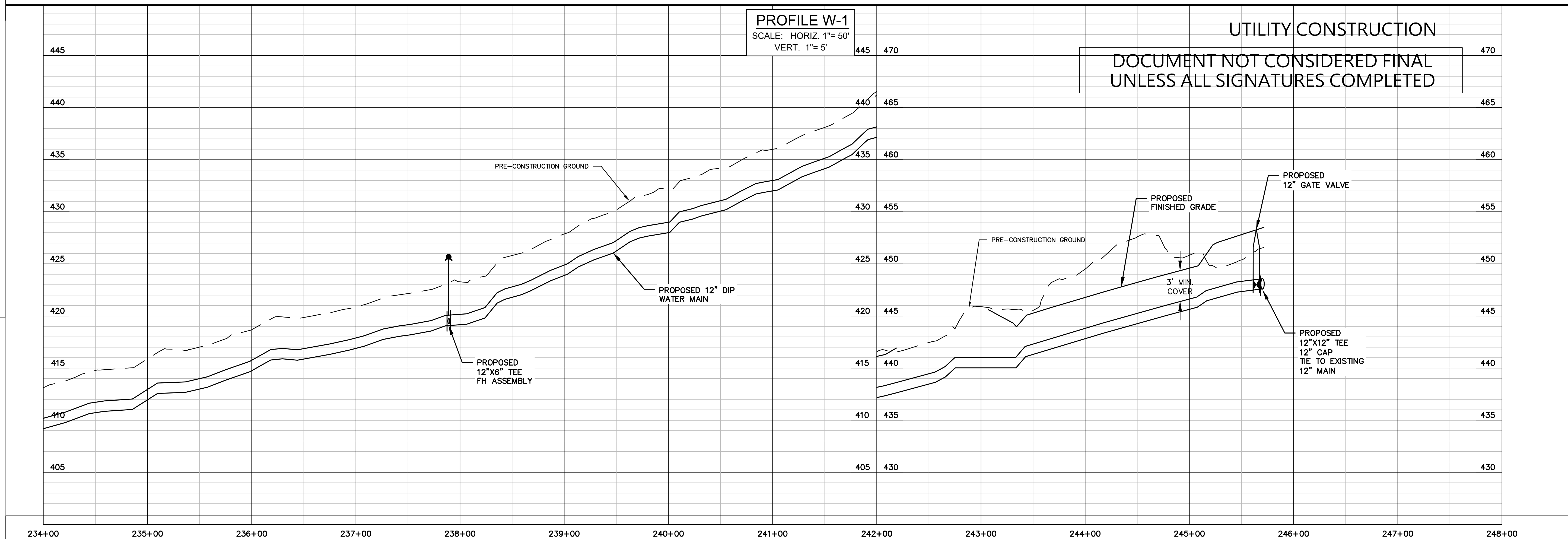
THE ESTIMATED QUANTITY OF DUCTILE  
IRON WATER PIPE FITTINGS ON THIS PLAN  
SHEET IS 1,680 POUNDS. THE ACTUAL  
QUANTITY AND TYPE OF FITTINGS WILL  
VARY BASED ON FIELD CONDITIONS.

DO NOT 12" DIP WATER MAIN  
DOGWOOD  
& FLOWERING SHRUBS

- NOTES:
1. RELOCATE ALL EXISTING WATER LINE SERVICES TO THE NEW WATER LINE. FOLLOW CITY OF SANFORD STANDARD SERVICE CONNECTION DETAILS. COORDINATE SERVICE TIE OVER WITH PROPERTY OWNER AND CITY OF SANFORD.
  2. PROVIDE 18" MINIMUM VERTICAL CLEARANCE AT ALL DRAINAGE SYSTEM CROSSINGS.
  3. ABANDON WATER LINE IN LOCATIONS SHOWN. ABANDONMENT INCLUDES ALL FITTINGS AND APPURTENANCES. ABANDONMENT OF THE WATER LINE TO BE IN ACCORDANCE WITH THE CITY OF SANFORD'S AND NCDOT'S REQUIREMENTS.
  4. ALL ABANDONED LINES 8" OR LARGER SHALL BE FILLED WITH CDF.
  5. MAINTAIN MINIMUM 36" COVER BELOW FINISHED GRADE FOR ALL WATER LINES.

NOTE: LOCATIONS OF EXISTING UTILITIES AS SHOWN ARE APPROXIMATE ONLY.  
EXACT LOCATIONS ARE TO BE VERIFIED IN THE FIELD BY THE CONTRACTOR.

Know what's below.  
Call before you dig.  
N.C. One-Call Center  
Dial 811 or 1-800-632-4949

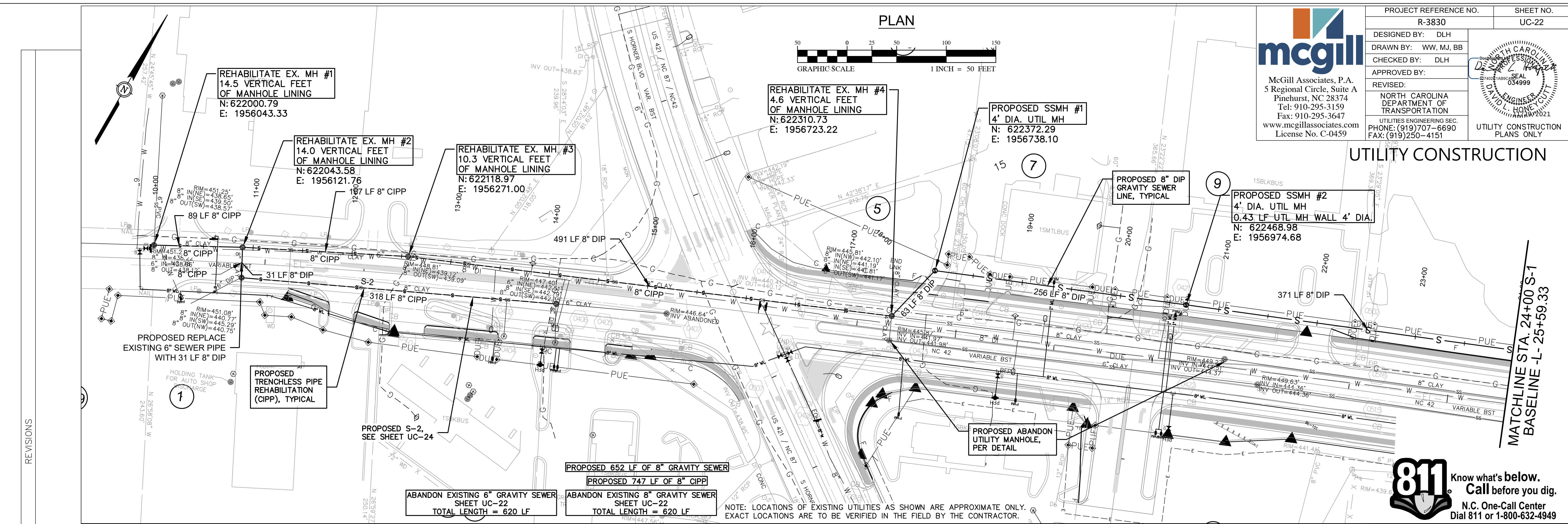


**PROFILE W-1**  
SCALE: HORIZ. 1"= 50'  
VERT. 1"= 5'

UTILITY CONSTRUCTION  
DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

**mcgill**  
 McGill Associates, P.A.  
 5 Regional Circle, Suite A  
 Pinehurst, NC 28374  
 Tel: 910-295-3159  
 Fax: 910-295-3647  
 www.mcgillassociates.com  
 License No. C-0459

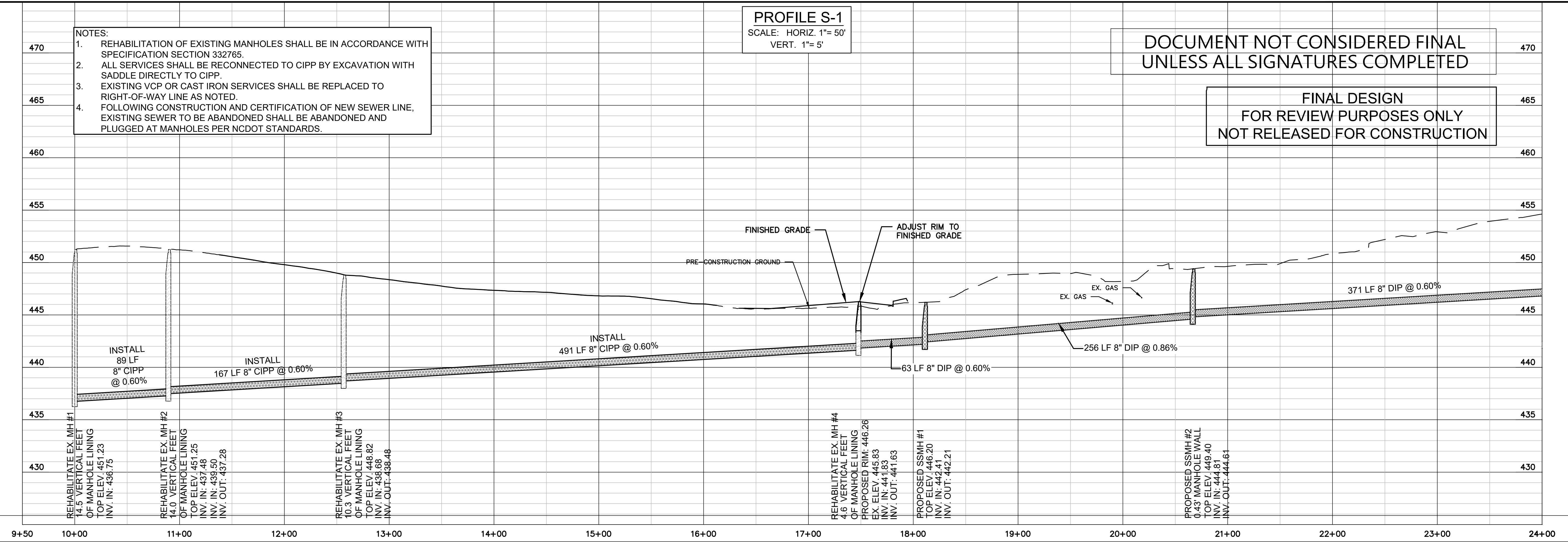
PROJECT REFERENCE NO. R-3830	SHEET NO. UC-22
DESIGNED BY: DLH	
DRAWN BY: WW, MJ, BB	
CHECKED BY: DLH	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE: (919)707-6690 FAX: (919)250-4151	UTILITY CONSTRUCTION PLANS ONLY



REVISIONS

MATCHLINE STA. 24+00 S-1  
BASELINE -L- 25+59.33

**811** Know what's below.  
 Call before you dig.  
 N.C. One-Call Center  
 Dial 811 or 1-800-632-4949





PROJECT REFERENCE NO. R-3830	SHEET NO. UC-23
DESIGNED BY: DLH	
DRAWN BY: WW, MJ, BB	
CHECKED BY: DLH	
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**

**DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED**

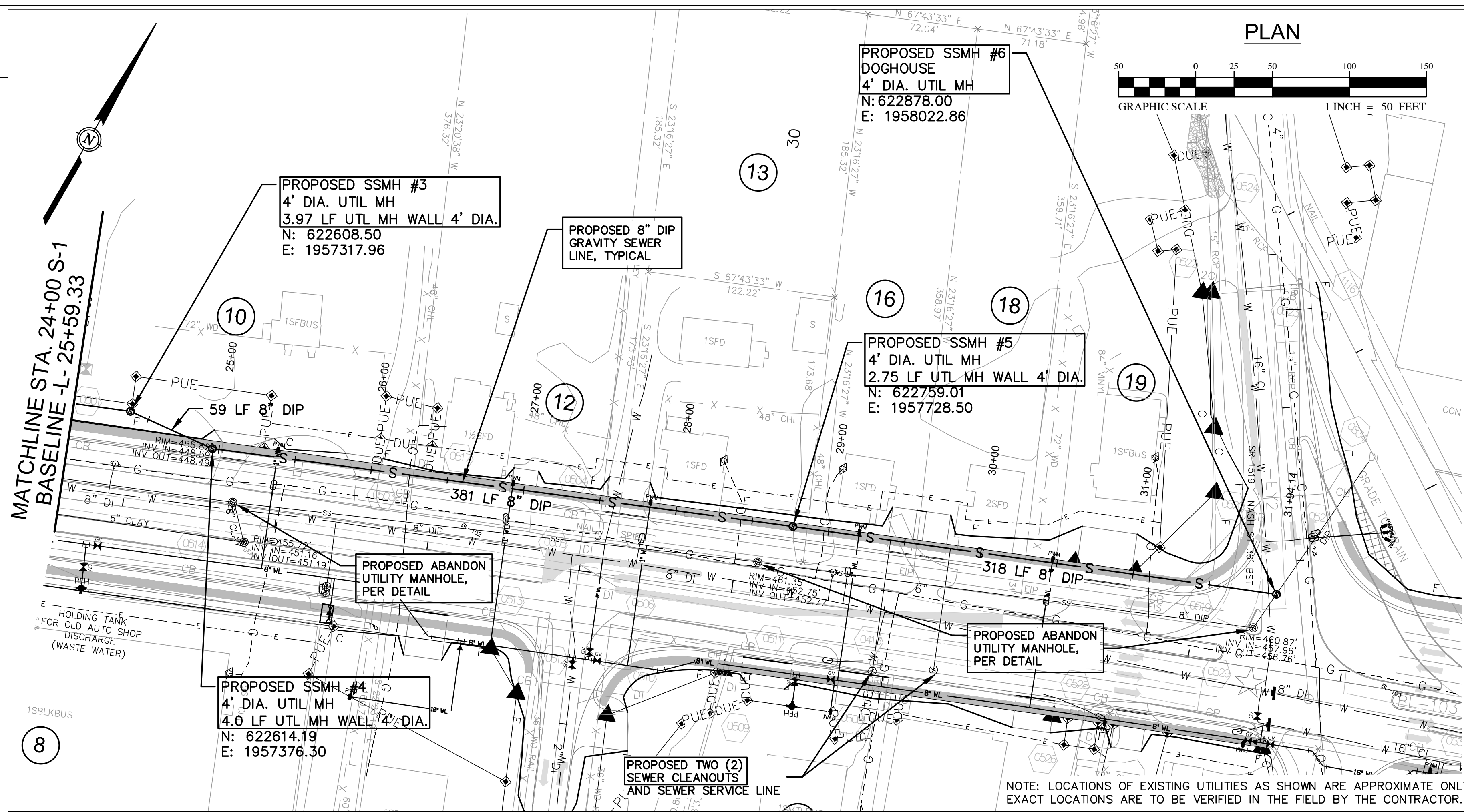
**FINAL DESIGN  
FOR REVIEW PURPOSES ONLY  
NOT RELEASED FOR CONSTRUCTION**

- NOTES:
- REHABILITATION OF EXISTING MANHOLES SHALL BE IN ACCORDANCE WITH SPECIFICATION SECTION 332765.
  - ALL SERVICES SHALL BE RECONNECTED TO CIPP BY EXCAVATION WITH SADDLE DIRECTLY TO CIPP.
  - EXISTING VCP OR CAST IRON SERVICES SHALL BE REPLACED TO RIGHT-OF-WAY LINE AS NOTED.
  - FOLLOWING CONSTRUCTION AND CERTIFICATION OF NEW SEWER LINE, EXISTING SEWER TO BE ABANDONED SHALL BE ABANDONED AND PLUGGED AT MANHOLES PER NCDOT STANDARDS.

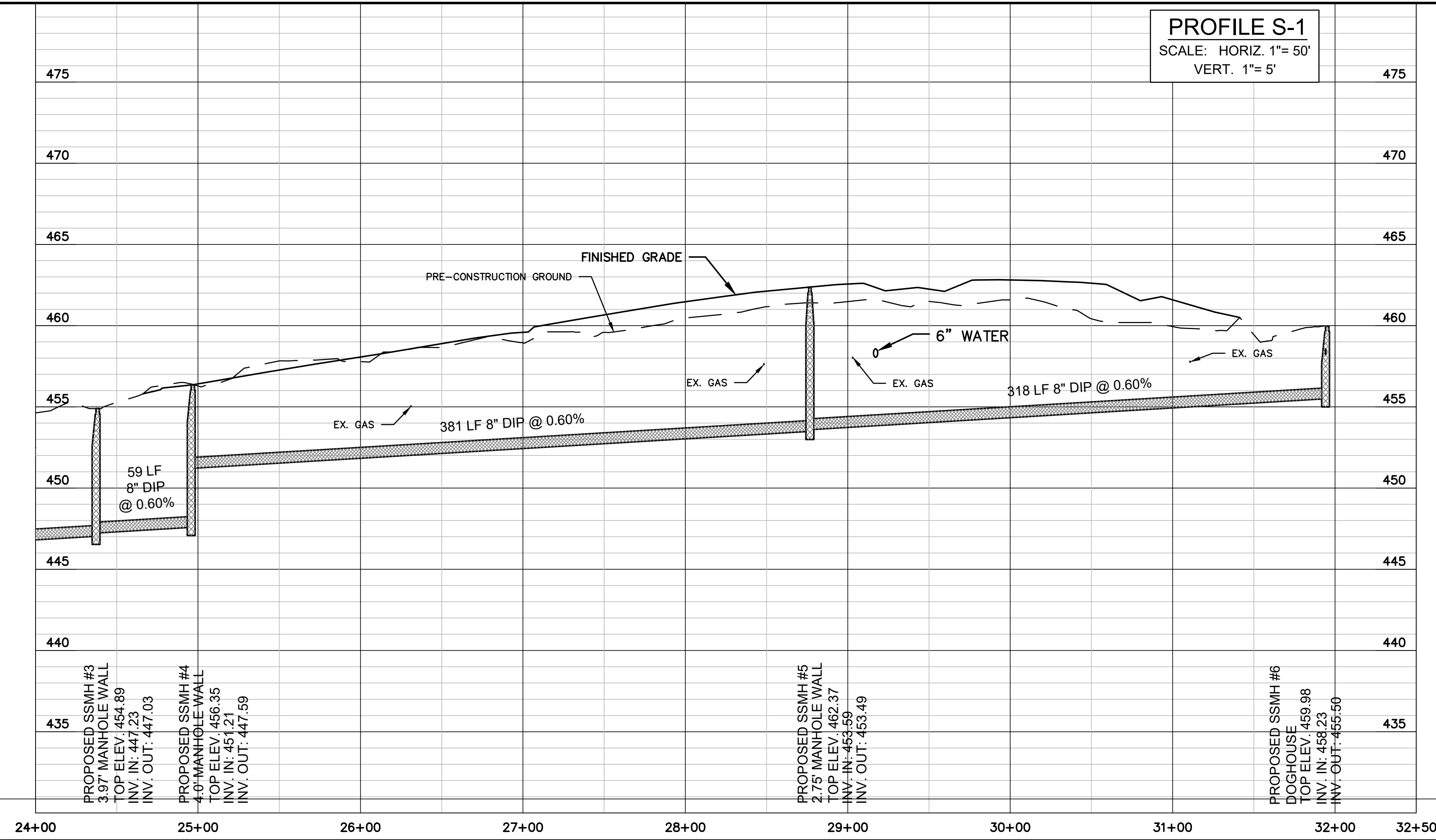
**PROPOSED 796 LF OF 8" GRAVITY SEWER**  
 ABANDON EXISTING 8" GRAVITY SEWER  
 SHEET UC-23  
 TOTAL LENGTH = 805 LF

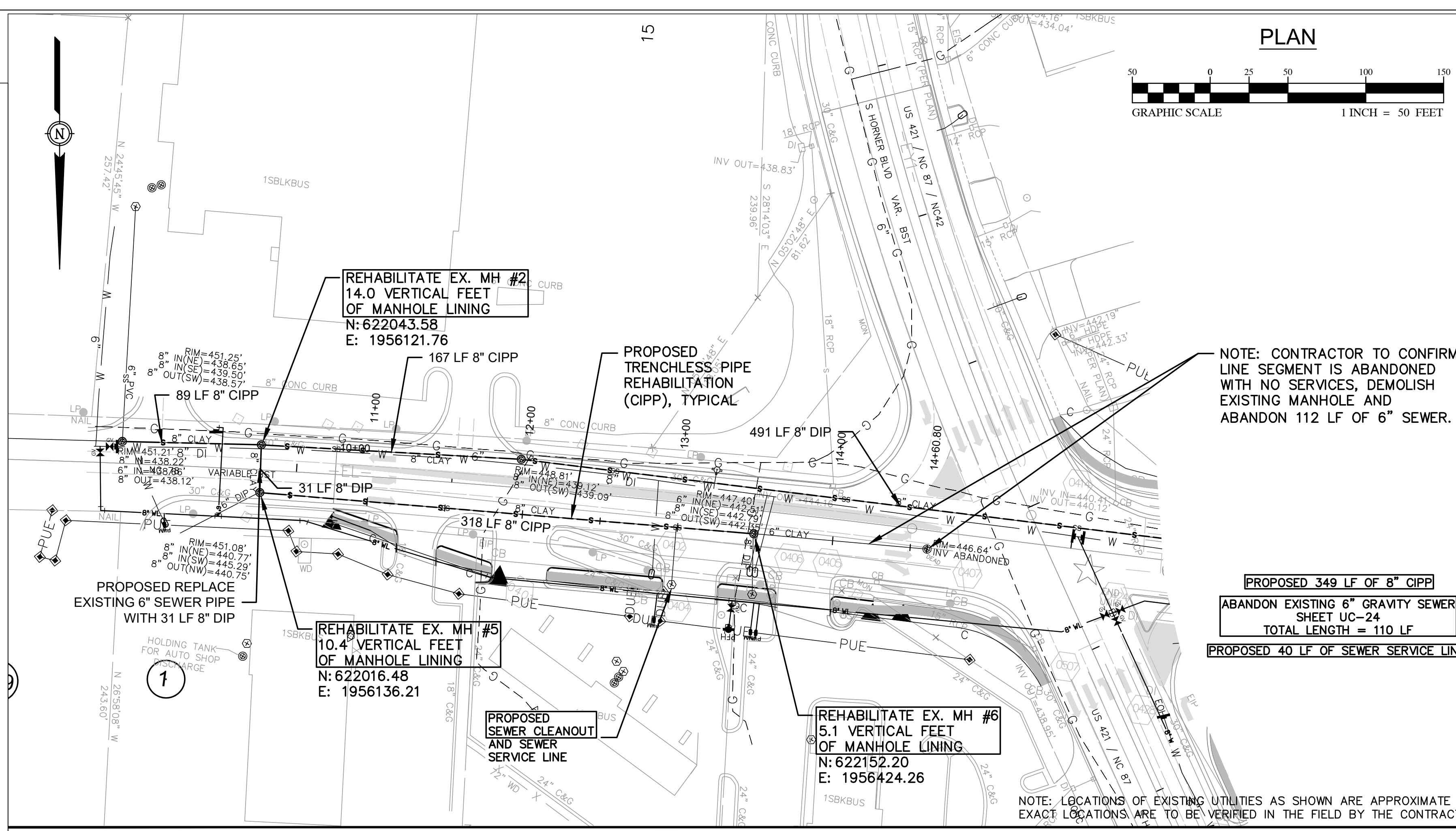
**ABANDON EXISTING 6" GRAVITY SEWER**  
 SHEET UC-23  
 TOTAL LENGTH = 185 LF

**PROPOSED 166 LF OF SEWER SERVICE LINE**



REVISIONS





**mcgill**  
 McGill Associates, P.A.  
 5 Regional Circle, Suite A  
 Pinehurst, NC 28374  
 Tel: 910-295-3159  
 Fax: 910-295-3647  
 www.mcgillassociates.com  
 License No. C-0459

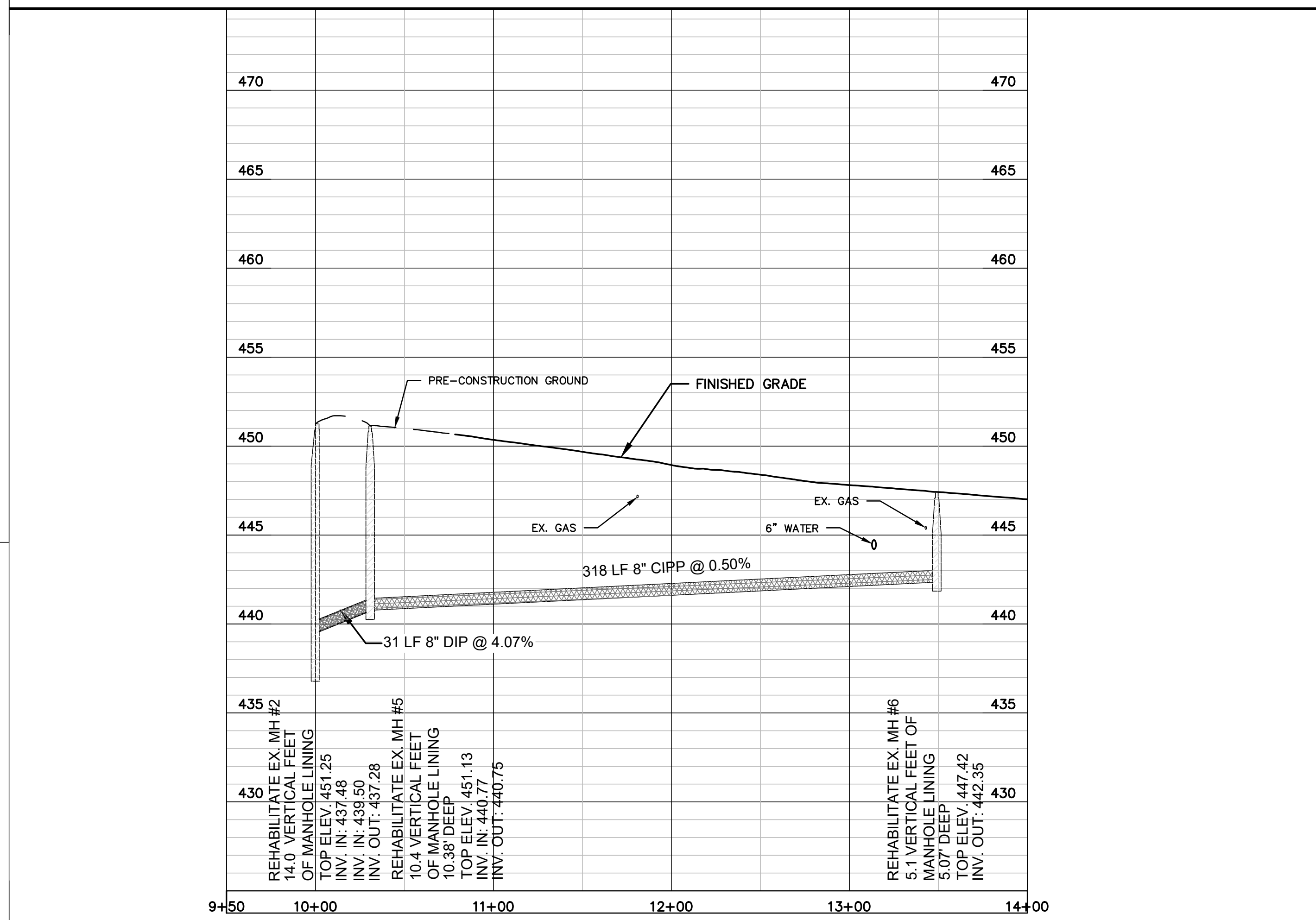
PROJECT REFERENCE NO. R-3830	SHEET NO. UC-24
DESIGNED BY: DLH	
DRAWN BY: WW, MJ, BB	
CHECKED BY: DLH	
APPROVED BY:	UTILITY CONSTRUCTION PLANS ONLY
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC.	
PHONE: (919) 707-6690	
FAX: (919) 250-4151	

### UTILITY CONSTRUCTION

**DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED**

**FINAL DESIGN FOR REVIEW PURPOSES ONLY NOT RELEASED FOR CONSTRUCTION**

- NOTES:
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  - ALL SERVICES SHALL BE RECONNECTED TO CIPP BY EXCAVATION WITH SADDLE DIRECTLY TO CIPP.
  - EXISTING VCP OR CAST IRON SERVICES SHALL BE REPLACED TO RIGHT-OF-WAY LINE AS NOTED.
  - FOLLOWING CONSTRUCTION AND CERTIFICATION OF NEW SEWER LINE, EXISTING SEWER TO BE ABANDONED SHALL BE ABANDONED AND PLUGGED AT MANHOLES PER NCDOT STANDARDS.



**PROFILE S-2**  
 SCALE: HORIZ. 1"= 50'  
 VERT. 1"= 5'

REVISIONS

1





PROJECT REFERENCE NO. R-3830	SHEET NO. UC-25
DESIGNED BY: DLH	
DRAWN BY: WW, MJ, BB	
CHECKED BY: DLH	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC.	
PHONE: (919)707-6690	UTILITY CONSTRUCTION PLANS ONLY
FAX: (919)250-4151	

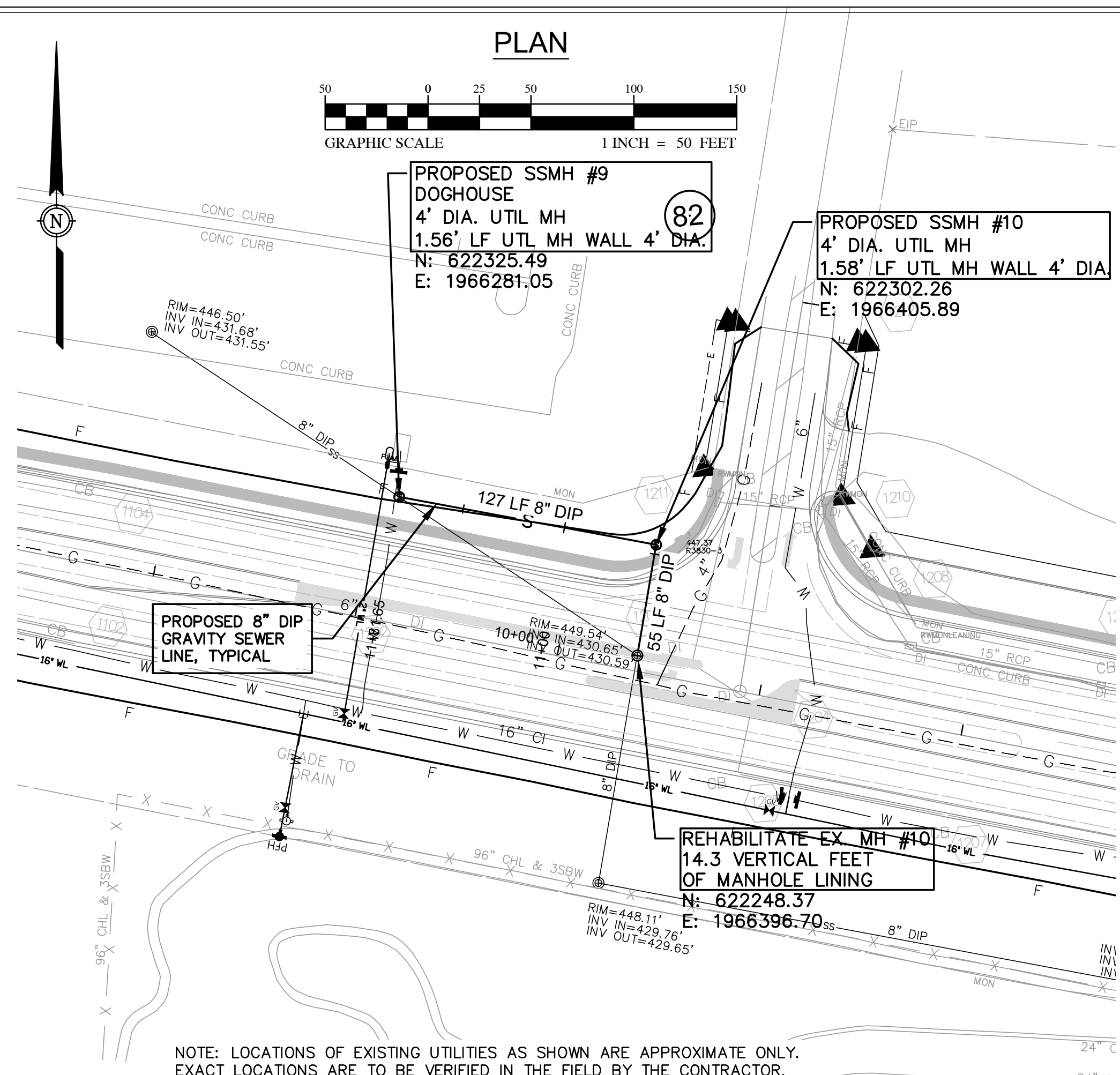
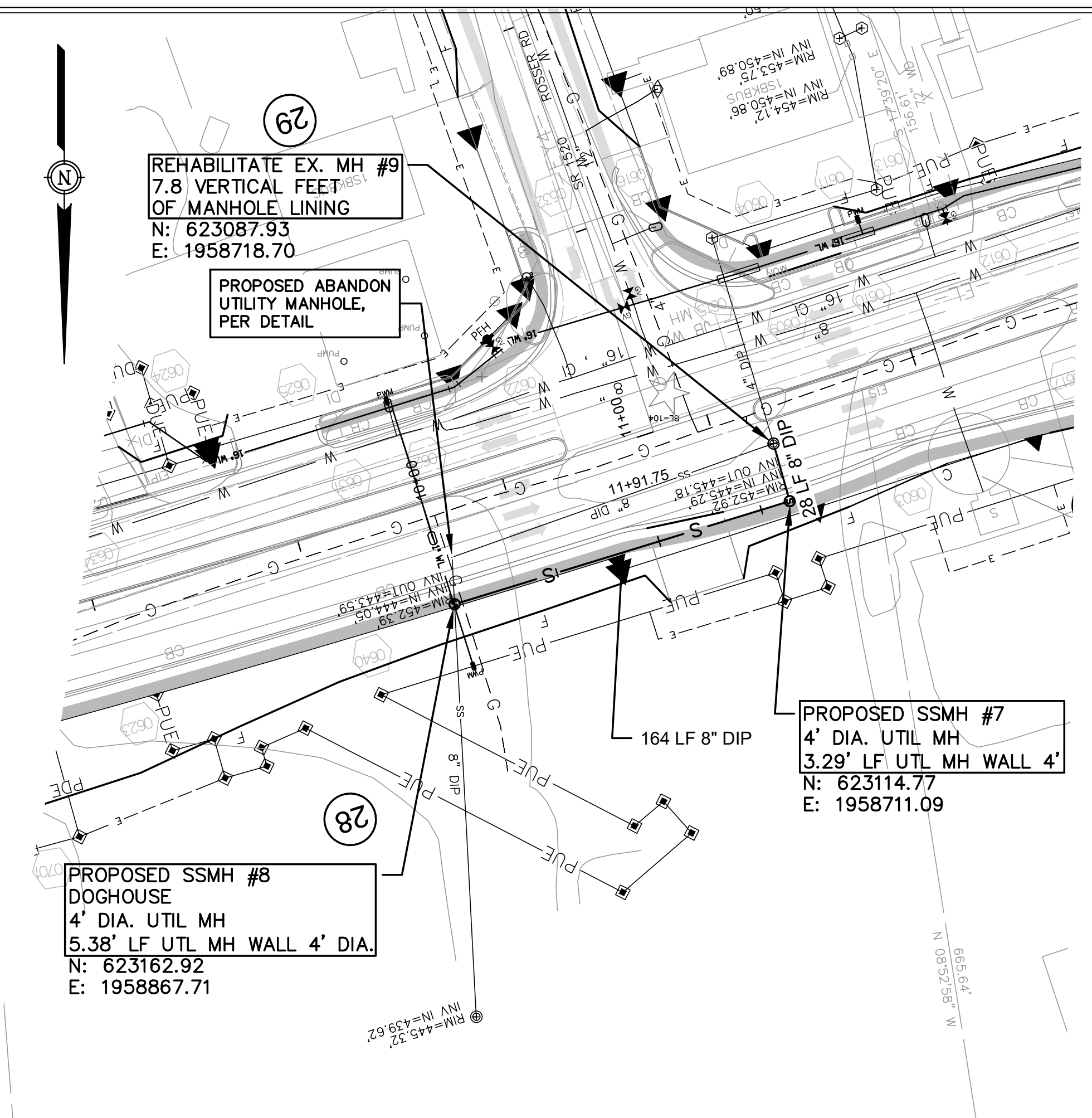
**UTILITY CONSTRUCTION**

**DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED**

**FINAL DESIGN FOR REVIEW PURPOSES ONLY NOT RELEASED FOR CONSTRUCTION**

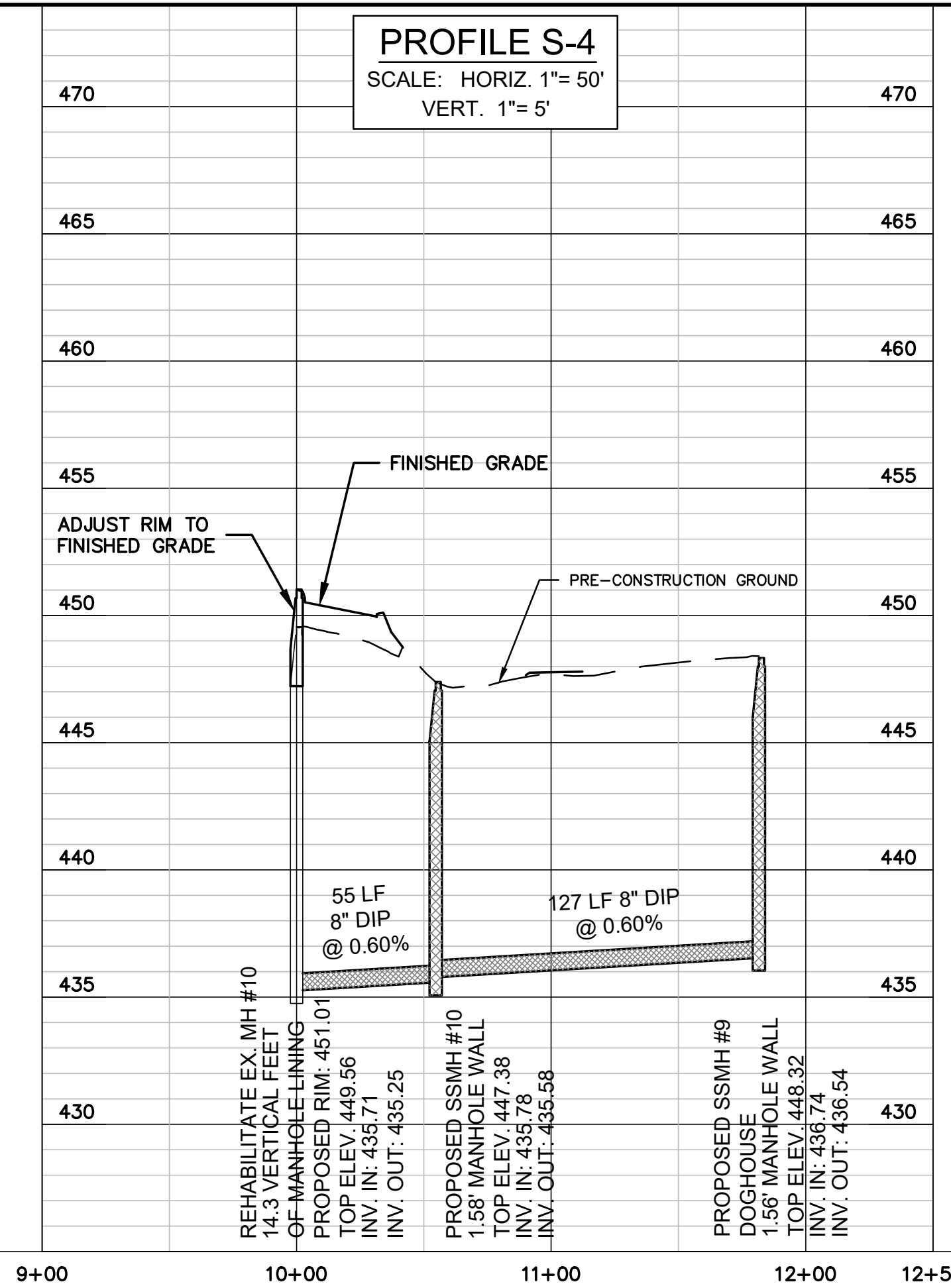
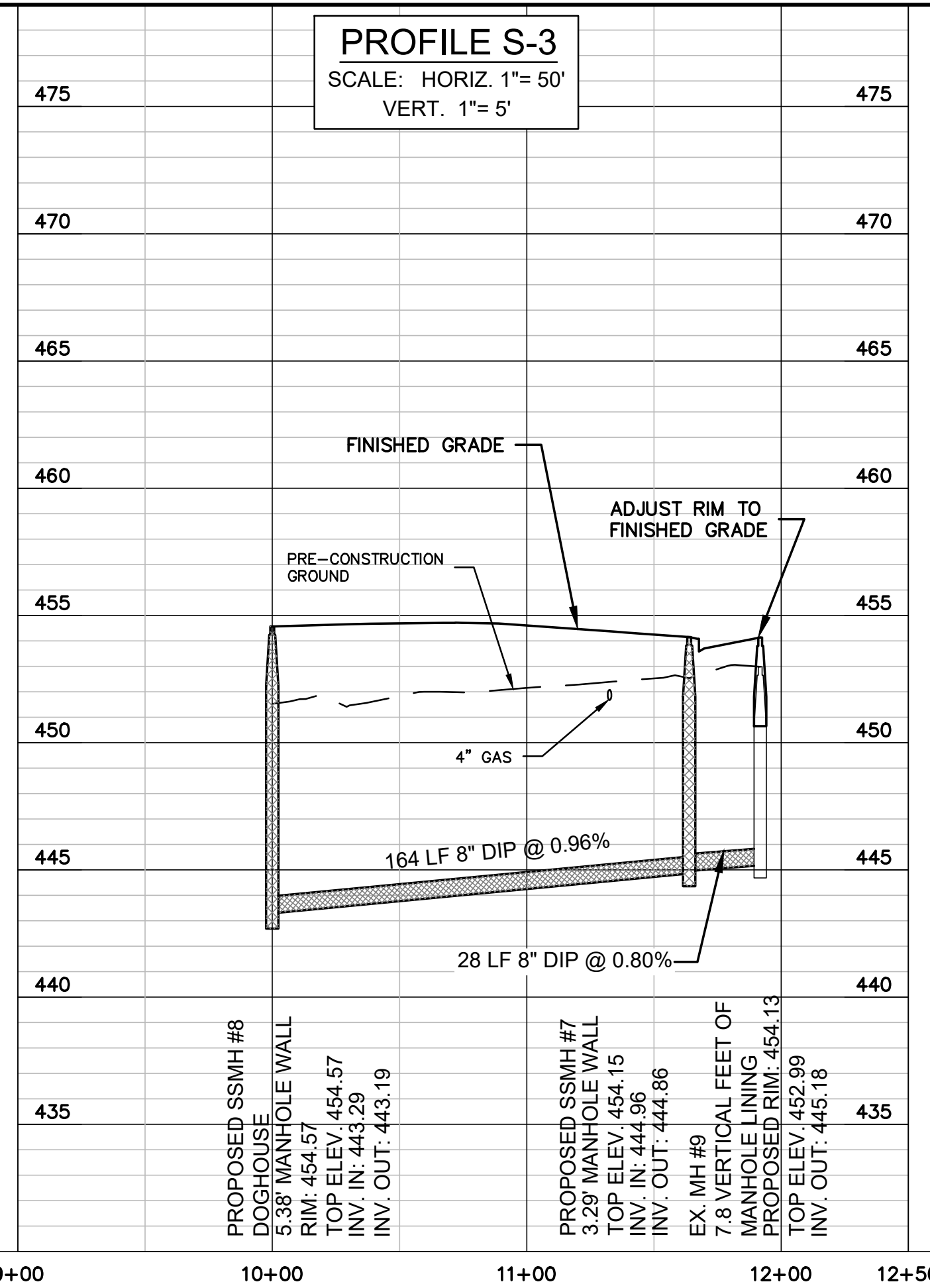
- NOTES:
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  - ALL SERVICES SHALL BE RECONNECTED TO CIPP BY EXCAVATION WITH SADDLE DIRECTLY TO CIPP.
  - EXISTING VCP OR CAST IRON SERVICES SHALL BE REPLACED TO RIGHT-OF-WAY LINE AS NOTED.
  - FOLLOWING CONSTRUCTION AND CERTIFICATION OF NEW SEWER LINE, EXISTING SEWER TO BE ABANDONED SHALL BE ABANDONED AND PLUGGED AT MANHOLES PER NCDOT STANDARDS.

PROPOSED 374 LF OF 8" GRAVITY SEWER  
ABANDON EXISTING 8" GRAVITY SEWER SHEET UC-25  
TOTAL LENGTH = 315 LF



NOTE: LOCATIONS OF EXISTING UTILITIES AS SHOWN ARE APPROXIMATE ONLY. EXACT LOCATIONS ARE TO BE VERIFIED IN THE FIELD BY THE CONTRACTOR.

REVISIONS



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UNLESS ALL SIGNATURES COMPLETED

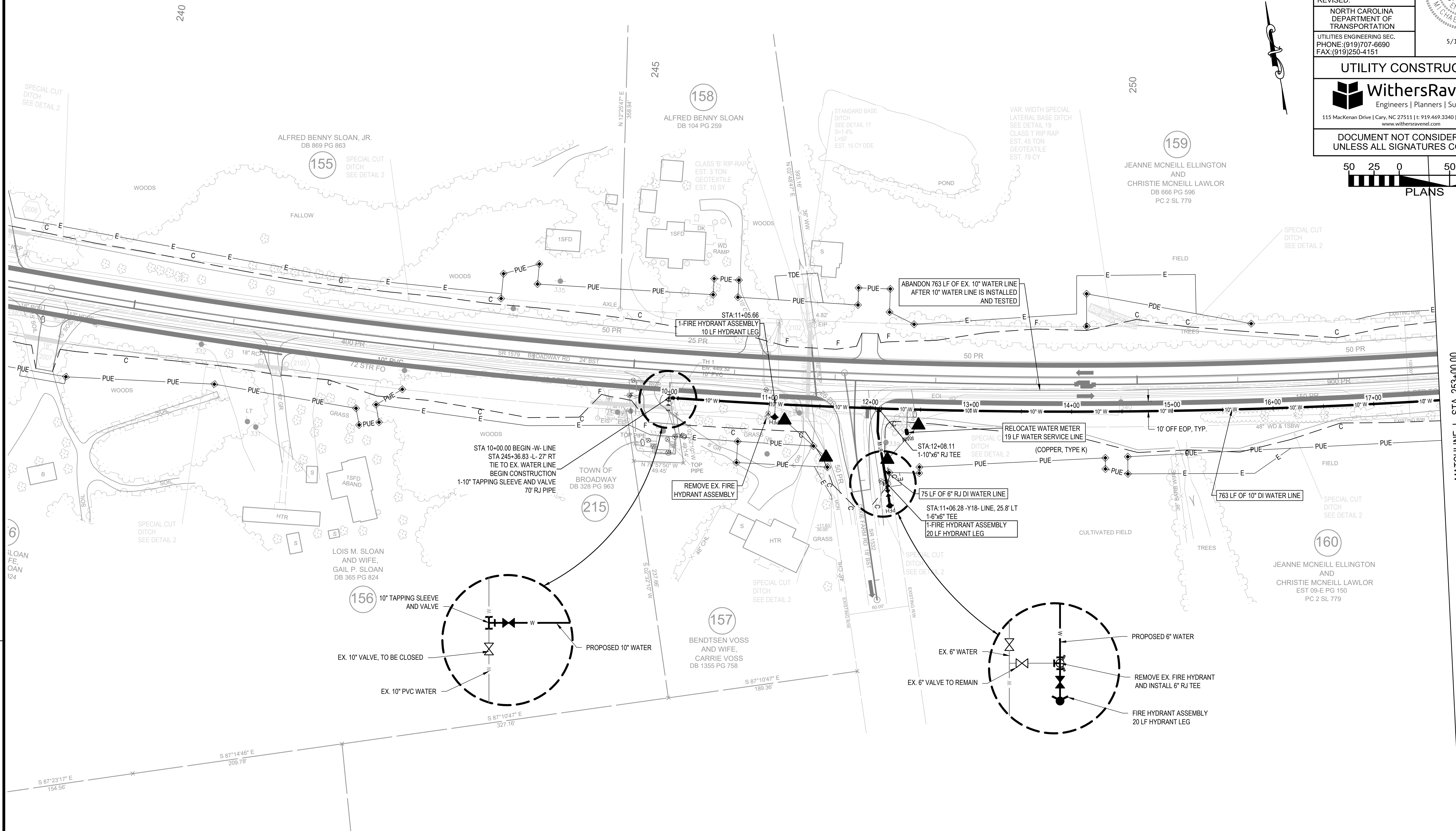
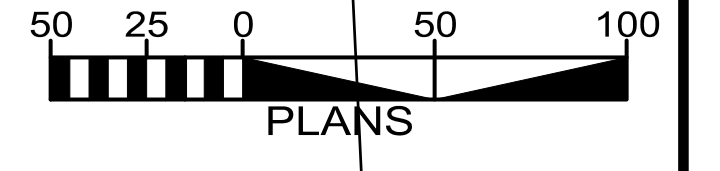
PROJECT REFERENCE NO.	R-3830	SHEET NO.	UC-26
DESIGNED BY:	MCW		
DRAWN BY:	PAP		
CHECKED BY:	JWW		
APPROVED BY:			
REVISED:			
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION		5/12/2022	
UTILITIES ENGINEERING SEC.			
PHONE: (919)707-6690			
FAX: (919)250-4151			

UTILITY CONSTRUCTION

**WithersRavenel**  
Engineers | Planners | Surveyors

115 MacKenan Drive | Cary, NC 27511 | P: 919.469.3340 | License #: C-0832 | www.withersravenel.com

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UNLESS ALL SIGNATURES COMPLETED



REVISIONS

MATCHLINE -L- STA. 253+00.00  
SEE SHEET UC-27

K:\17-0070\170078-town of Broadway sewer improve\CAD\civil drawings\R-3830\_uc\_26\_uc21-25\_swh.dwg - Thursday, May 12, 2022 11:54:20 AM - PETERSON, PATRICK

- CONSTRUCTION NOTES:
- CONTRACTOR TO VERIFY LONG AND SHORT WATER SERVICE REQUIREMENTS PRIOR TO CONSTRUCTION.
  - RELOCATE/CONNECT ALL WATER SERVICES ON EXISTING WATER (TO BE ABANDONED) TO NEW WATER LINE.
  - CONTRACTOR TO VERIFY LONG AND SHORT SEWER SERVICE REQUIREMENTS PRIOR TO CONSTRUCTION.
  - RELOCATE/CONNECT ALL SEWER SERVICES ON EXISTING SEWER (TO BE ABANDONED) TO NEW SEWER LINE. EACH PROPERTY WITHIN TOWN LIMITS ALONG THE SEWER REPLACEMENT ALIGNMENT SHALL HAVE A NEW SEWER SERVICE CONNECTED PER TOWN OF BROADWAY ORDINANCE.
  - ABANDON WATER AND SEWER LINE IN LOCATIONS SHOWN. ABANDONMENTS INCLUDE ALL FITTINGS AND APPURTENANCES. ABANDONMENT OF THE WATER AND SEWER LINE TO BE IN ACCORDANCE WITH NCDOT REQUIREMENTS.
  - ALL ABANDONED LINES LARGER THAN 8" TO BE FILLED WITH CDF.
  - PROPOSED STORM DRAINAGE PIPES AND STRUCTURES ARE TO BE INSTALLED WITHIN THE AREA OF THE NEW SEWER AND WATER LINES. CONTRACTOR TO DETERMINE BEST METHOD AND TIMING FOR INSTALLATION OF WATER, SEWER AND STORM DRAINAGE.

NOTE:  
THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 580 LBS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS. (250# MIN WP)

DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

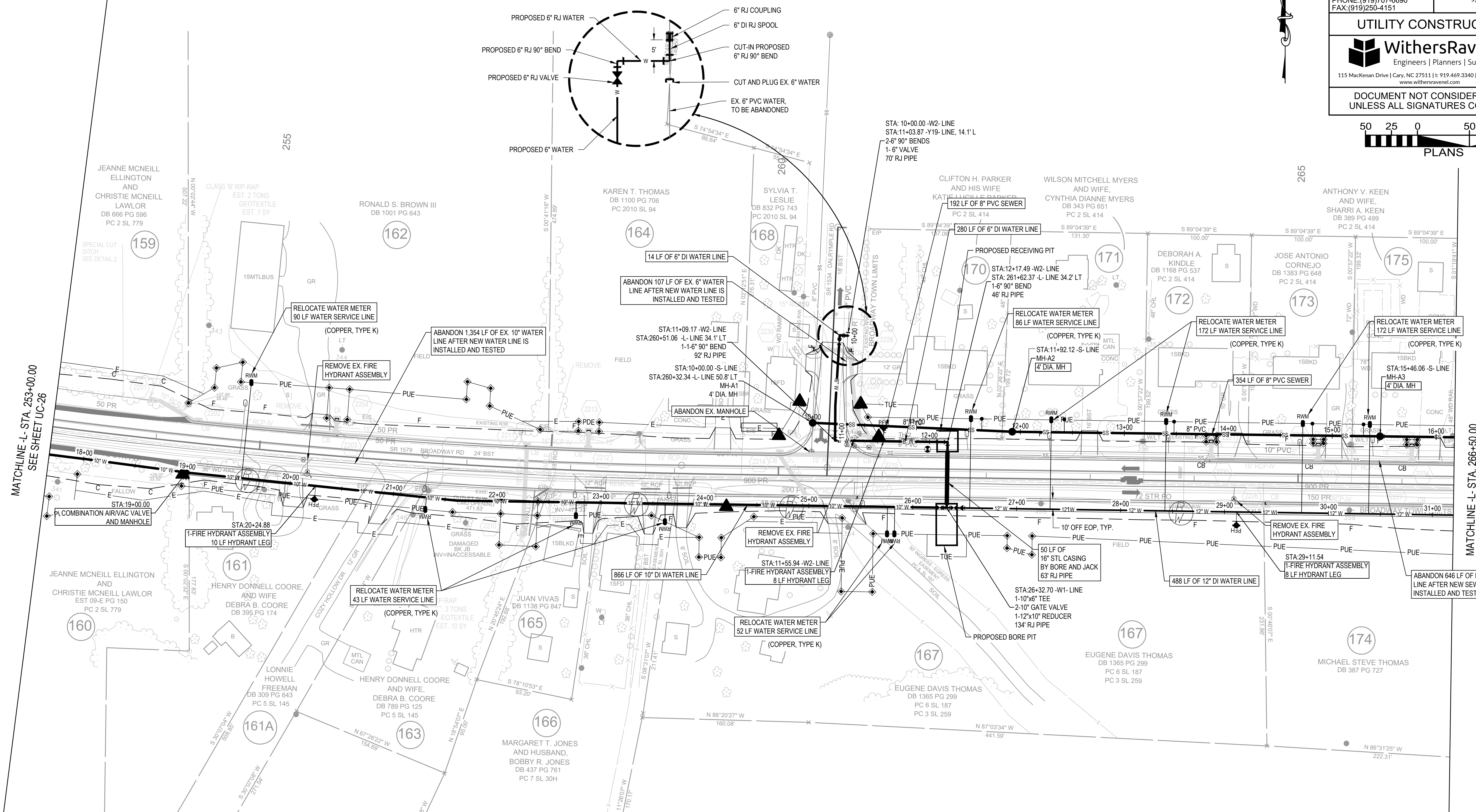
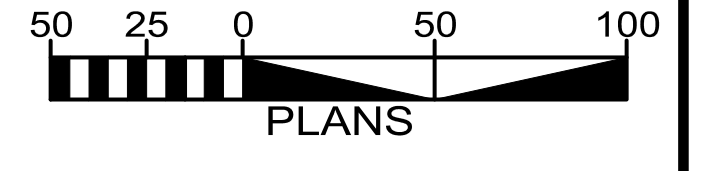
PROJECT REFERENCE NO.	R-3830	SHEET NO.	UC-27
DESIGNED BY:	MCW	DocuSigned by:	Michael Wicker
DRAWN BY:	PAP	SEAL	CF2CEAE2882C404
CHECKED BY:	JWW	ENGINEER	MICHAEL C. WICKER
APPROVED BY:			
REVISED:			
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION		5/12/2022	
UTILITIES ENGINEERING SEC. PHONE: (919)707-6690 FAX: (919)250-4151			

UTILITY CONSTRUCTION

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Engineers | Planners | Surveyors

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UNLESS ALL SIGNATURES COMPLETED



- CONSTRUCTION NOTES:
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NOTE:  
THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 770 LBS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS. (250# MIN WP)

REVISIONS

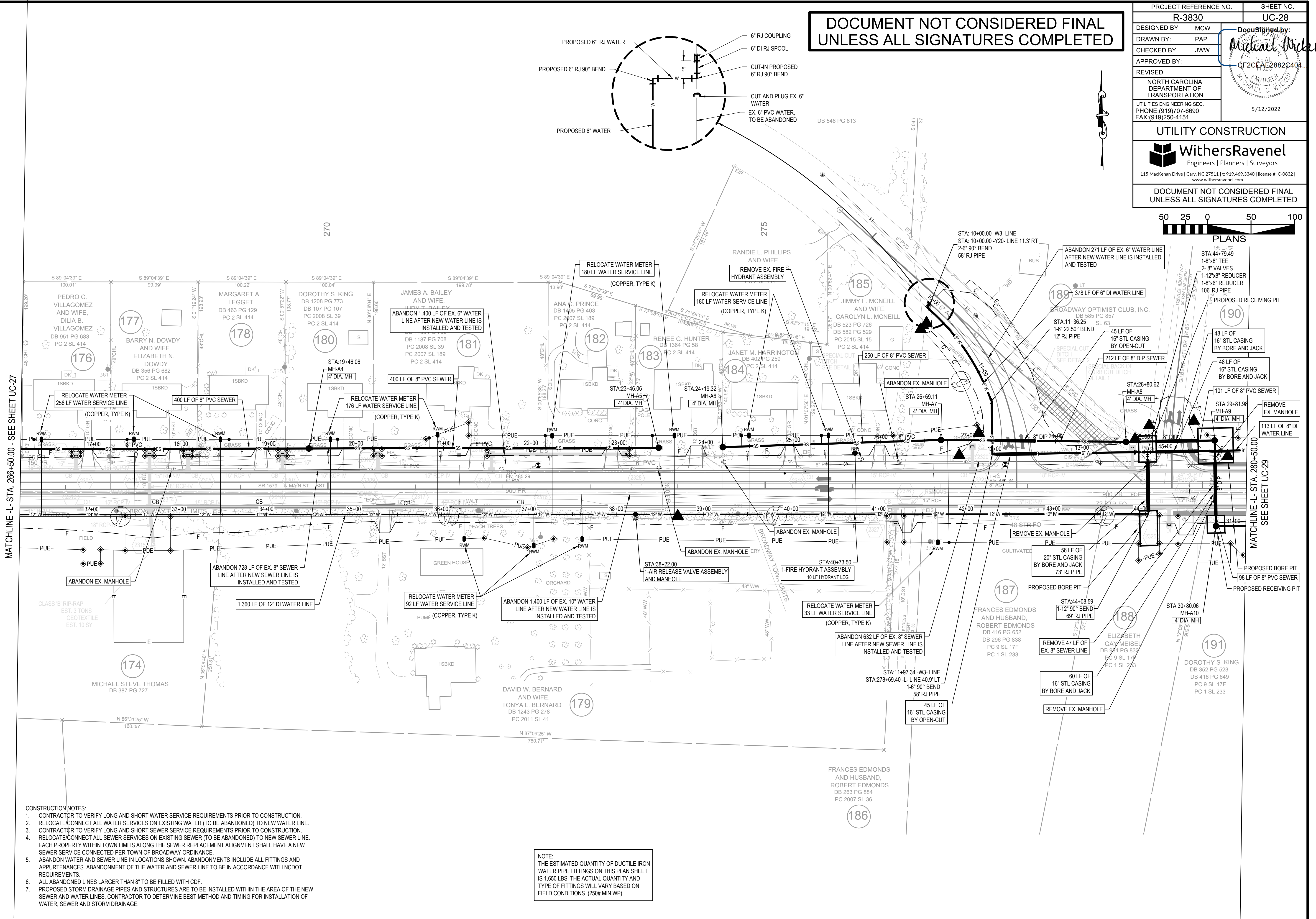
K:\17-0010\170078-town of broadway sewer improve\CAD\civil drawings\R-3830\_uc\_27-25\_sph.dwg - Thursday, May 12, 2022 11:54:49 AM - PETERSON, PATRICK

DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

PROJECT REFERENCE NO.	R-3830	SHEET NO.	UC-28
DESIGNED BY:	MCW	DocuSigned by:	<i>Michael Wicker</i>
DRAWN BY:	PAP	CHECKED BY:	JWW
APPROVED BY:		REVISIONS:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION		5/12/2022	
UTILITIES ENGINEERING SEC. PHONE: (919)707-6690 FAX: (919)250-4151		www.withersravenel.com	
UTILITY CONSTRUCTION			
 WithersRavenel Engineers   Planners   Surveyors 115 MacKenan Drive   Cary, NC 27511   T: 919.469.3340   License #: C-0832   www.withersravenel.com			
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PLANS



MATCHLINE -L- STA. 266+50.00 - SEE SHEET UC-27

MATCHLINE -L- STA. 280+50.00 - SEE SHEET UC-29

- CONSTRUCTION NOTES:
- CONTRACTOR TO VERIFY LONG AND SHORT WATER SERVICE REQUIREMENTS PRIOR TO CONSTRUCTION.
  - RELOCATE/CONNECT ALL WATER SERVICES ON EXISTING WATER (TO BE ABANDONED) TO NEW WATER LINE.
  - CONTRACTOR TO VERIFY LONG AND SHORT SEWER SERVICE REQUIREMENTS PRIOR TO CONSTRUCTION.
  - RELOCATE/CONNECT ALL SEWER SERVICES ON EXISTING SEWER (TO BE ABANDONED) TO NEW SEWER LINE.
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  - ALL ABANDONED LINES LARGER THAN 8" TO BE FILLED WITH CDF.
  - PROPOSED STORM DRAINAGE PIPES AND STRUCTURES ARE TO BE INSTALLED WITHIN THE AREA OF THE NEW SEWER AND WATER LINES. CONTRACTOR TO DETERMINE BEST METHOD AND TIMING FOR INSTALLATION OF WATER, SEWER AND STORM DRAINAGE.

NOTE:  
THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 1,650 LBS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS. (250# MIN WP)

REVISIONS

K:\1717-0010\17078-town of Broadway sewer improve\CAD\civil drawings\R-3830\_uc\_28-uc29-25.mxd - Thursday, May 12, 2022, 11:55:19 AM - PETERSON, PATRICK

**DOCUMENT NOT CONSIDERED FINAL  
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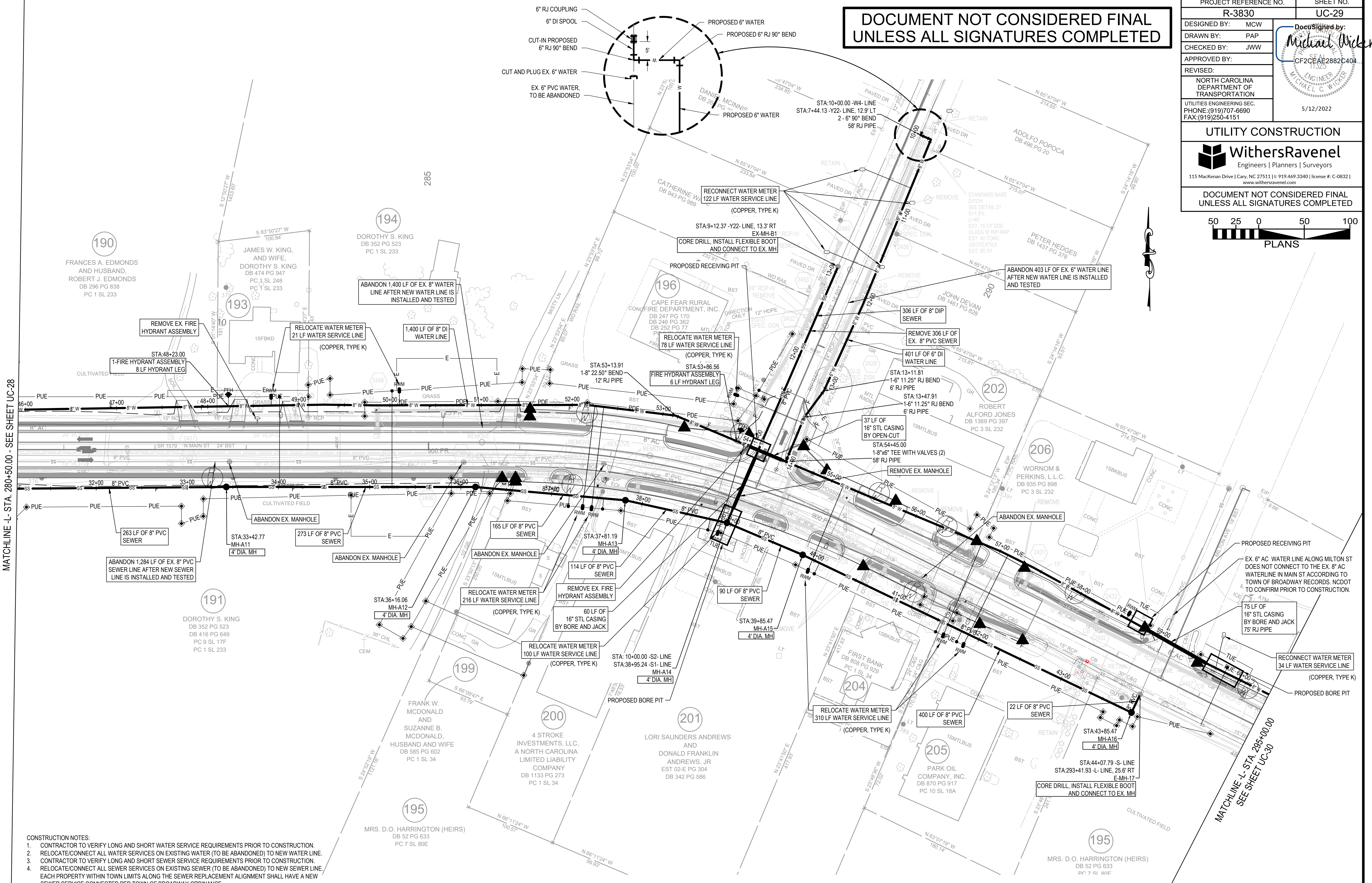
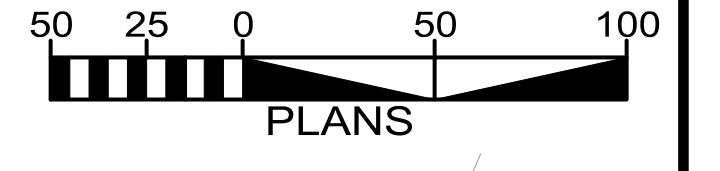
PROJECT REFERENCE NO.	R-3830	SHEET NO.	UC-29
DESIGNED BY:	MCW	Checked by:	<i>Michael Wicker</i>
DRAWN BY:	PAP	CF2CEAE2882C403	
CHECKED BY:	JWW		
APPROVED BY:			
REVISED:			
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION		5/12/2022	
UTILITIES ENGINEERING SEC. PHONE: (919)707-6690 FAX: (919)250-4151			

**UTILITY CONSTRUCTION**

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- CONSTRUCTION NOTES:**
1. CONTRACTOR TO VERIFY LONG AND SHORT WATER SERVICE REQUIREMENTS PRIOR TO CONSTRUCTION.
  2. RELOCATE/CONNECT ALL WATER SERVICES ON EXISTING WATER (TO BE ABANDONED) TO NEW WATER LINE.
  3. CONTRACTOR TO VERIFY LONG AND SHORT SEWER SERVICE REQUIREMENTS PRIOR TO CONSTRUCTION.
  4. RELOCATE/CONNECT ALL SEWER SERVICES ON EXISTING SEWER (TO BE ABANDONED) TO NEW SEWER LINE. EACH PROPERTY WITHIN TOWN LIMITS ALONG THE SEWER REPLACEMENT ALIGNMENT SHALL HAVE A NEW SEWER SERVICE CONNECTED PER TOWN OF BROADWAY ORDINANCE.
  5. ABANDON WATER AND SEWER LINE IN LOCATIONS SHOWN. ABANDONMENTS INCLUDE ALL FITTINGS AND APPURTENANCES. ABANDONMENT OF THE WATER AND SEWER LINE TO BE IN ACCORDANCE WITH NCDOT REQUIREMENTS.
  6. ALL ABANDONED LINES LARGER THAN 8" TO BE FILLED WITH CDF.
  7. PROPOSED STORM DRAINAGE PIPES AND STRUCTURES ARE TO BE INSTALLED WITHIN THE AREA OF THE NEW SEWER AND WATER LINES. CONTRACTOR TO DETERMINE BEST METHOD AND TIMING FOR INSTALLATION OF WATER, SEWER AND STORM DRAINAGE.

**NOTE:**  
THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 720 LBS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS. (250# MIN WP)

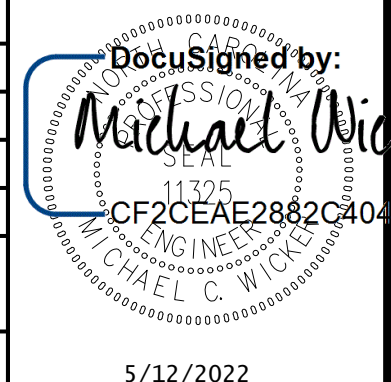
REVISIONS

MATCHLINE -L- STA. 280+50.00 - SEE SHEET UC-28

MATCHLINE -L- STA. 295+00.00  
SEE SHEET UC-30

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PROJECT REFERENCE NO.	R-3830	SHEET NO.	UC-30
DESIGNED BY:	MCW		
DRAWN BY:	PAP		
CHECKED BY:	JWW		
APPROVED BY:			
REVISIONS:		11/25/2021	CF2CEAE2862C404
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION		5/12/2022	
UTILITIES ENGINEERING SEC.			
PHONE: (919) 707-6690			
FAX: (919) 250-4151			

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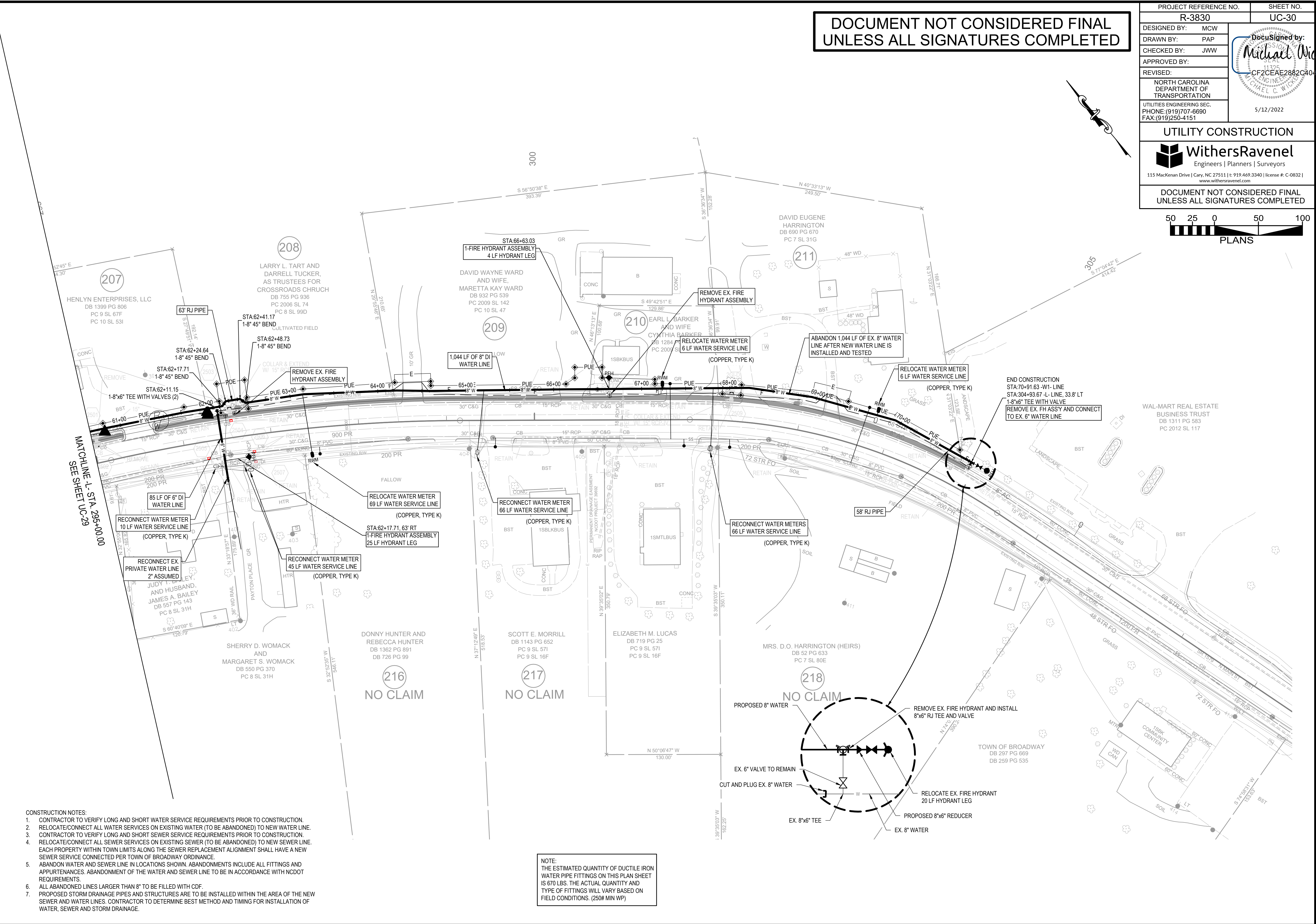
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- CONSTRUCTION NOTES:
- CONTRACTOR TO VERIFY LONG AND SHORT WATER SERVICE REQUIREMENTS PRIOR TO CONSTRUCTION.
  - RELOCATE/CONNECT ALL WATER SERVICES ON EXISTING WATER (TO BE ABANDONED) TO NEW WATER LINE.
  - CONTRACTOR TO VERIFY LONG AND SHORT SEWER SERVICE REQUIREMENTS PRIOR TO CONSTRUCTION.
  - RELOCATE/CONNECT ALL SEWER SERVICES ON EXISTING SEWER (TO BE ABANDONED) TO NEW SEWER LINE. EACH PROPERTY WITHIN TOWN LIMITS ALONG THE SEWER REPLACEMENT ALIGNMENT SHALL HAVE A NEW SEWER SERVICE CONNECTED PER TOWN OF BROADWAY ORDINANCE.
  - ABANDON WATER AND SEWER LINE IN LOCATIONS SHOWN. ABANDONMENTS INCLUDE ALL FITTINGS AND APPURTENANCES. ABANDONMENT OF THE WATER AND SEWER LINE TO BE IN ACCORDANCE WITH NCDOT REQUIREMENTS.
  - ALL ABANDONED LINES LARGER THAN 8" TO BE FILLED WITH CDF.
  - PROPOSED STORM DRAINAGE PIPES AND STRUCTURES ARE TO BE INSTALLED WITHIN THE AREA OF THE NEW SEWER AND WATER LINES. CONTRACTOR TO DETERMINE BEST METHOD AND TIMING FOR INSTALLATION OF WATER, SEWER AND STORM DRAINAGE.

NOTE:  
THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 670 LBS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS. (250# MIN WP)

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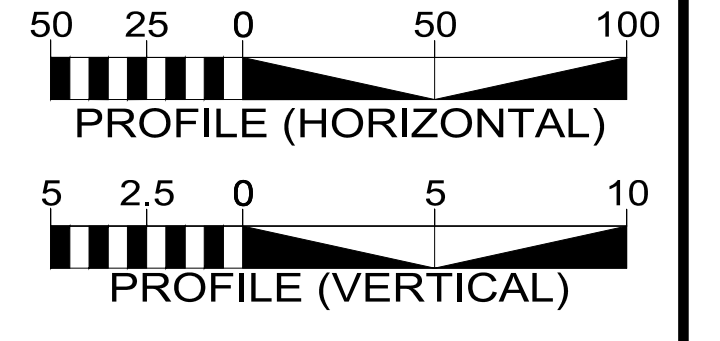
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UNLESS ALL SIGNATURES COMPLETED

PROJECT REFERENCE NO.	R-3830	SHEET NO.	UC-31
DESIGNED BY:	MCW		
DRAWN BY:	PAP		
CHECKED BY:	JWW		
APPROVED BY:			
REVISED:		5/12/2022	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION			
UTILITIES ENGINEERING SEC. PHONE: (919)707-6690 FAX: (919)250-4151			

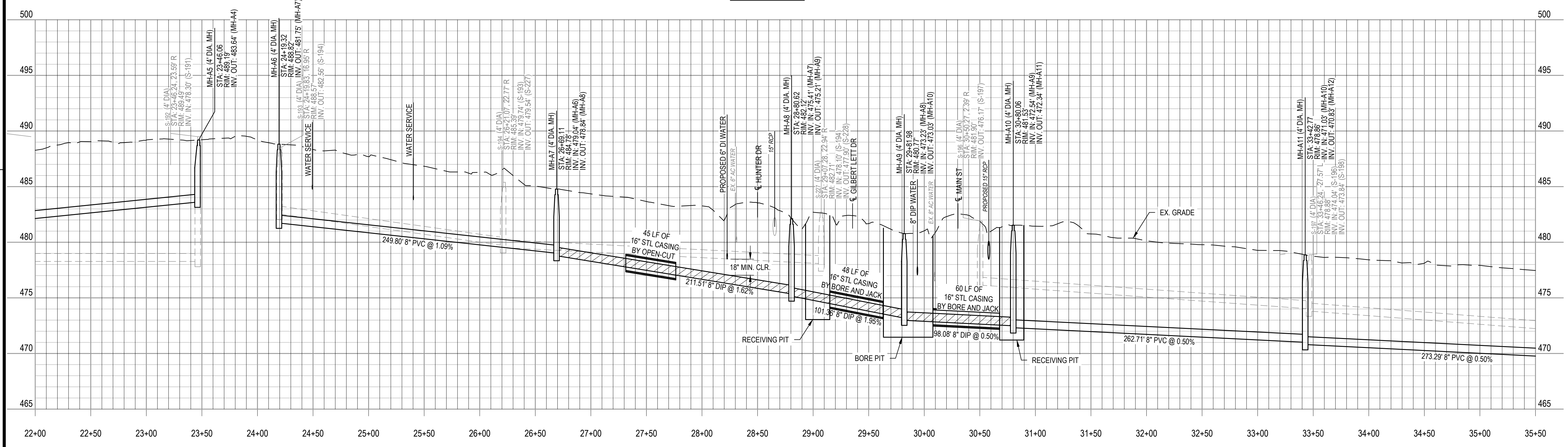
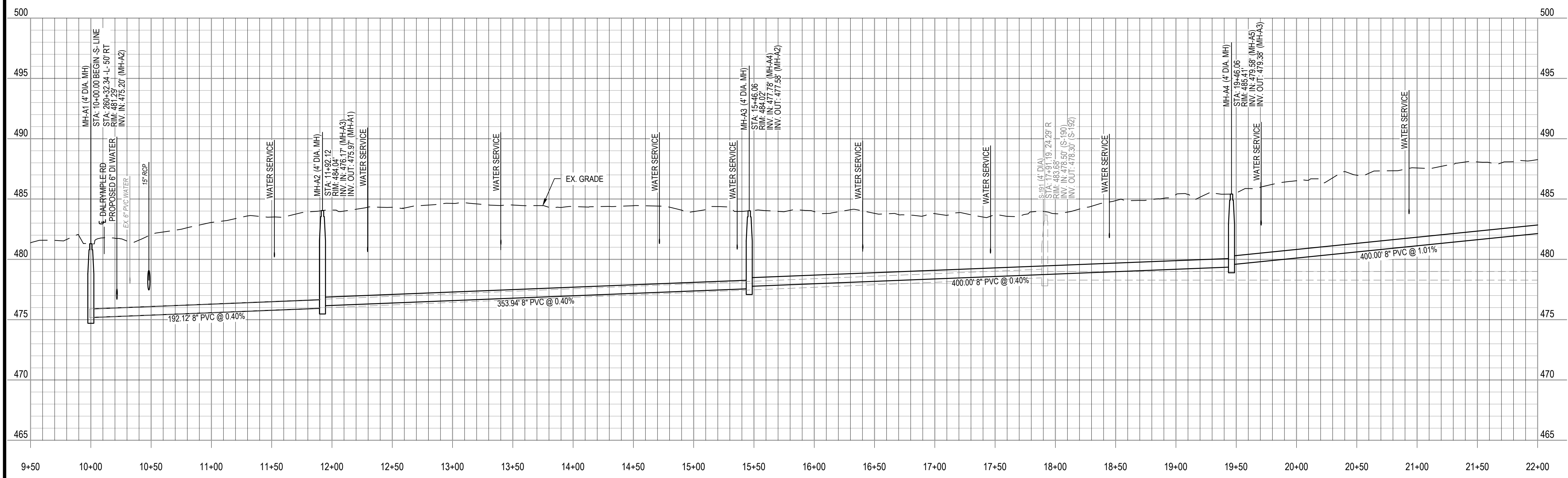
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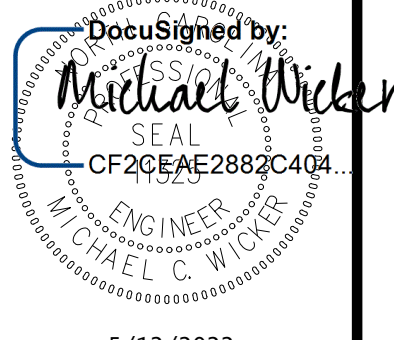


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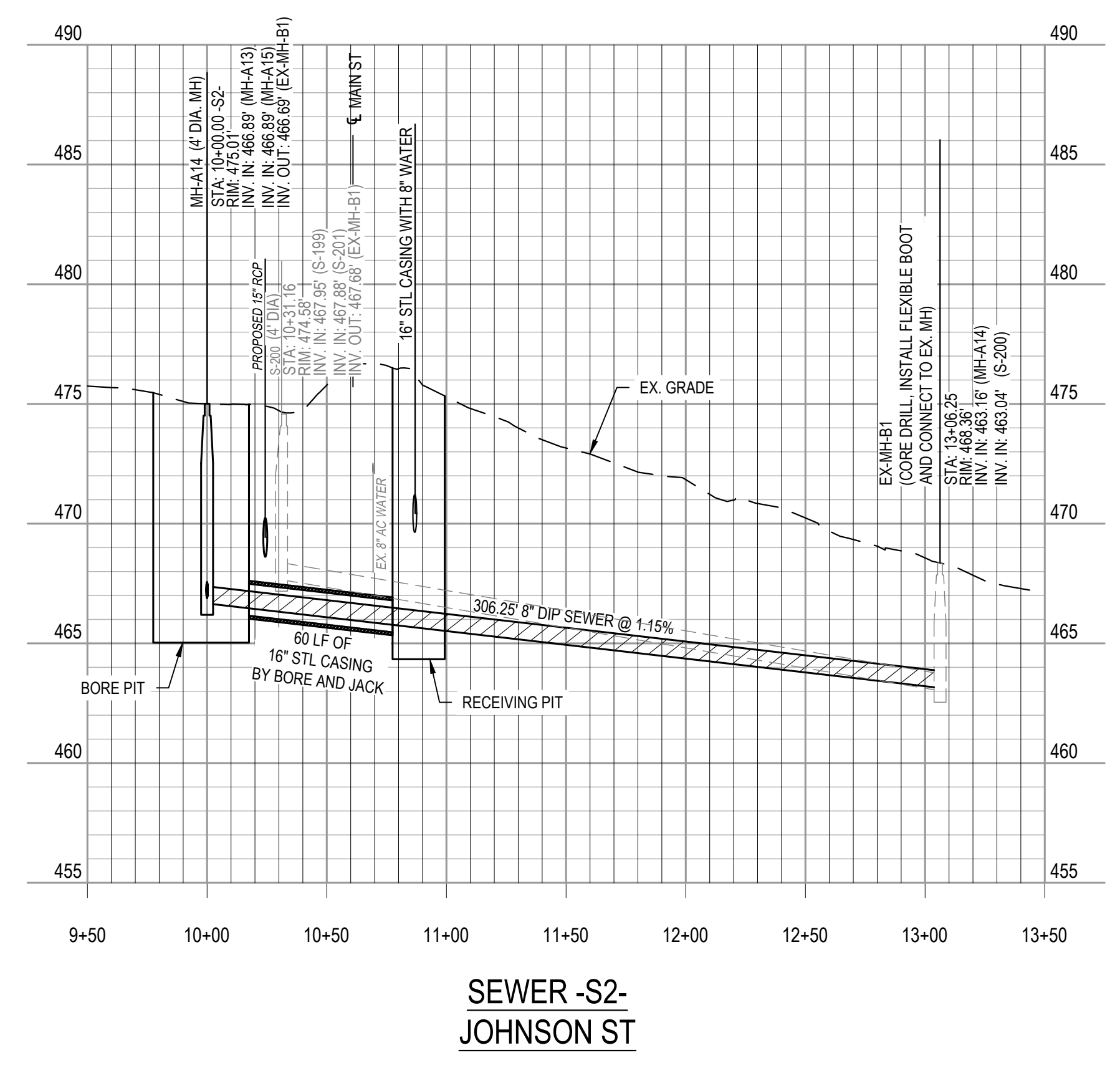
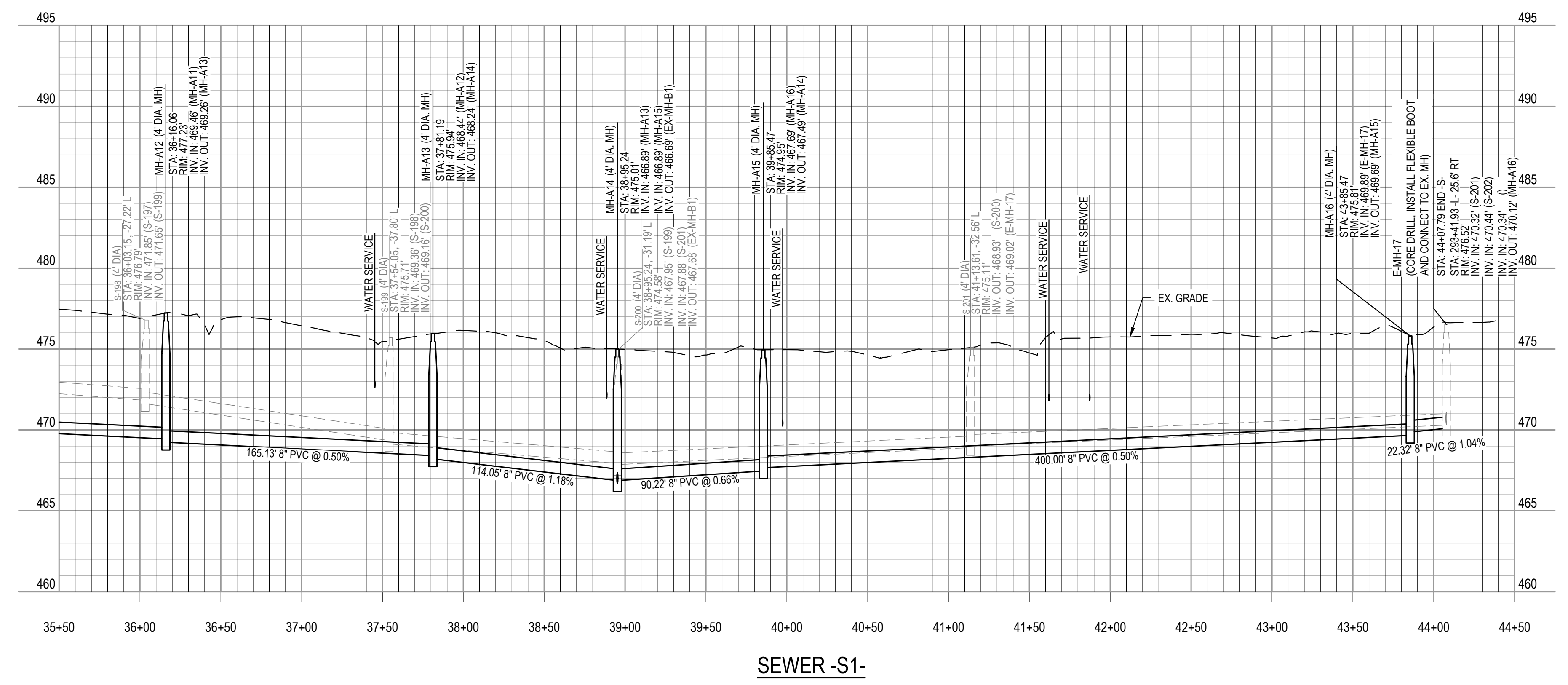
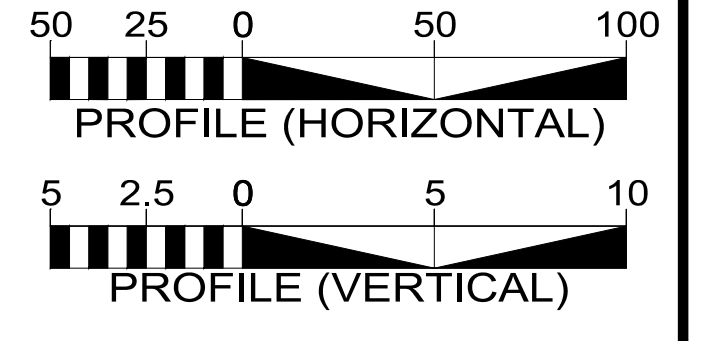
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DESIGNED BY: MCW	 <p>DocuSigned by: Michael Wither CF20EAE2882C404</p>
DRAWN BY: PAP	
CHECKED BY: JWW	
APPROVED BY:	
REVISIONS:	
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UTILITIES ENGINEERING SEC. PHONE: (919)707-6690 FAX: (919)250-4151	
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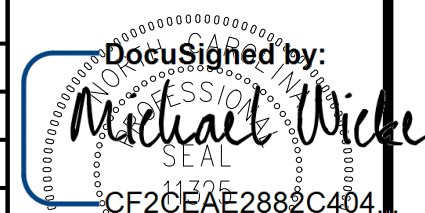


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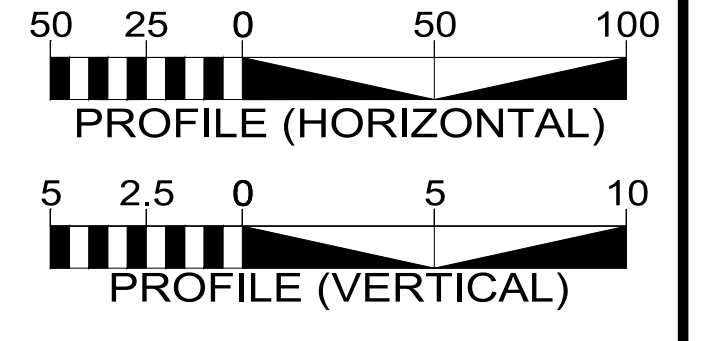
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PROJECT REFERENCE NO. R-3830	SHEET NO. UC-33
DESIGNED BY: MCW	DocuSigned by:  Michael C. Wickers PE CF2CEAE2882C404
DRAWN BY: PAP	
CHECKED BY: JWW	
APPROVED BY:	
REVISER:	
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UTILITIES ENGINEERING SEC. PHONE: (919)707-6690 FAX: (919)250-4151	
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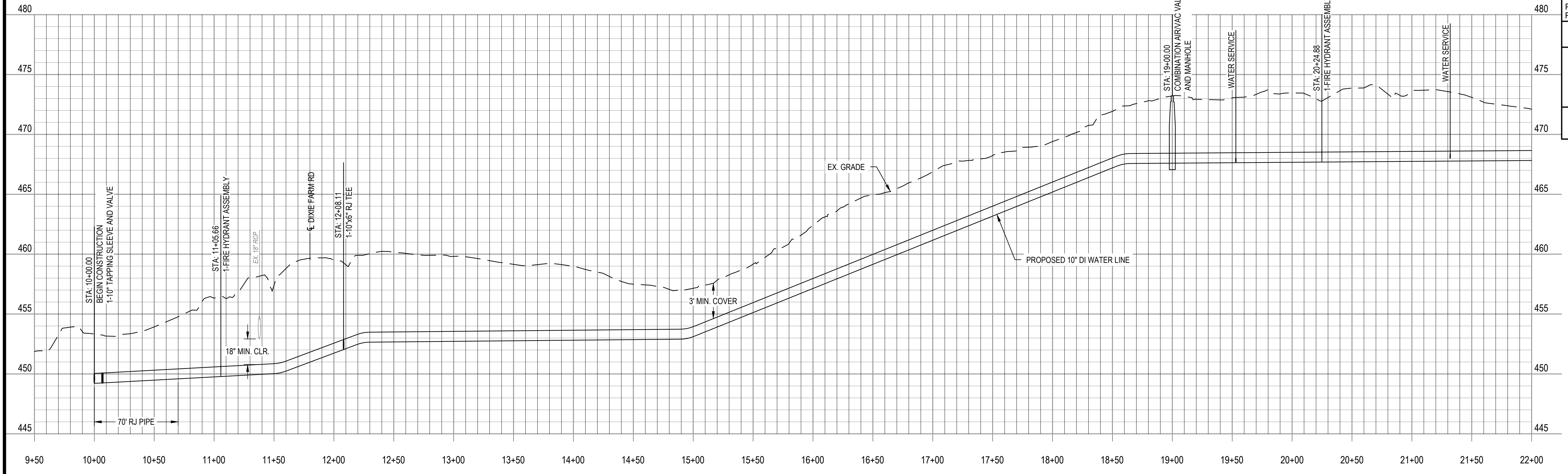
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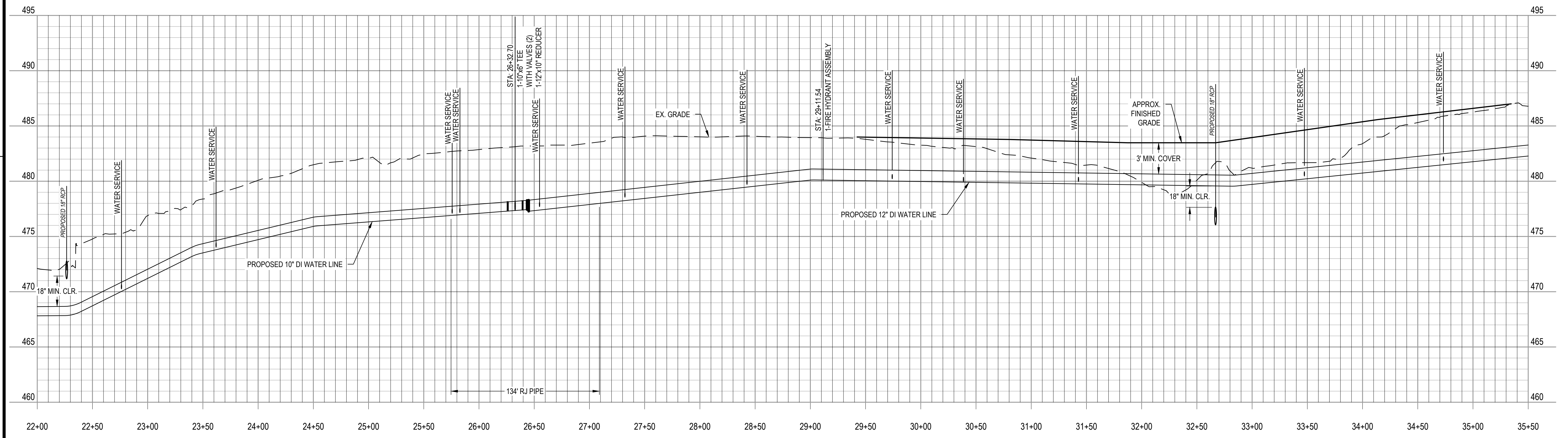
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REVISIONS



WATER -W1-



WATER -W1-

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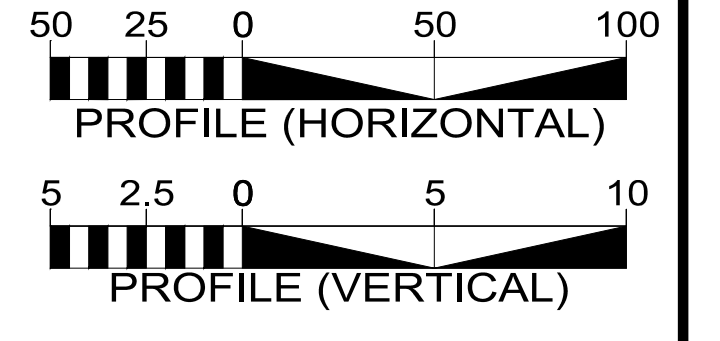
PROJECT REFERENCE NO.	R-3830	SHEET NO.	UC-34
DESIGNED BY:	MCW		
DRAWN BY:	PAP		
CHECKED BY:	JWW		
APPROVED BY:			
REVISED:			
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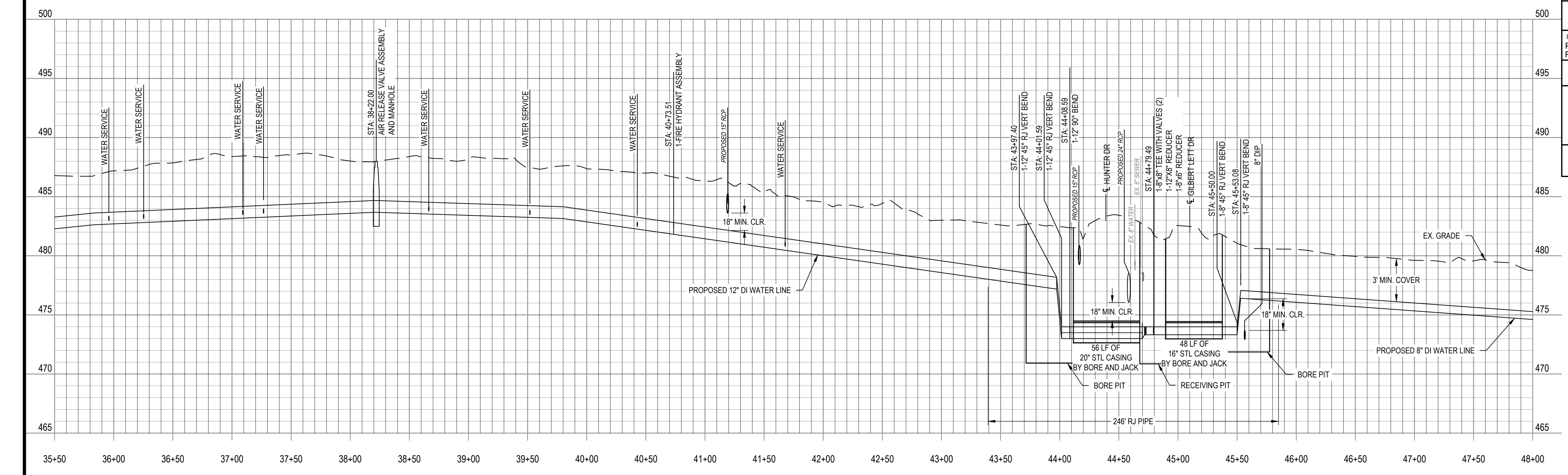
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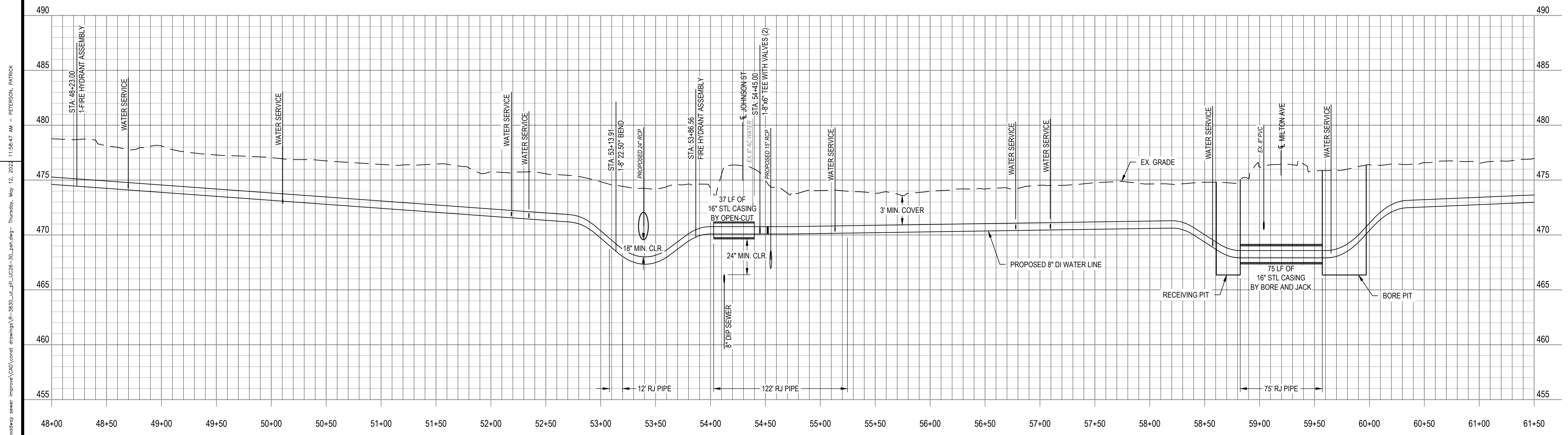
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REVISIONS



WATER-W1-



WATER-W1-

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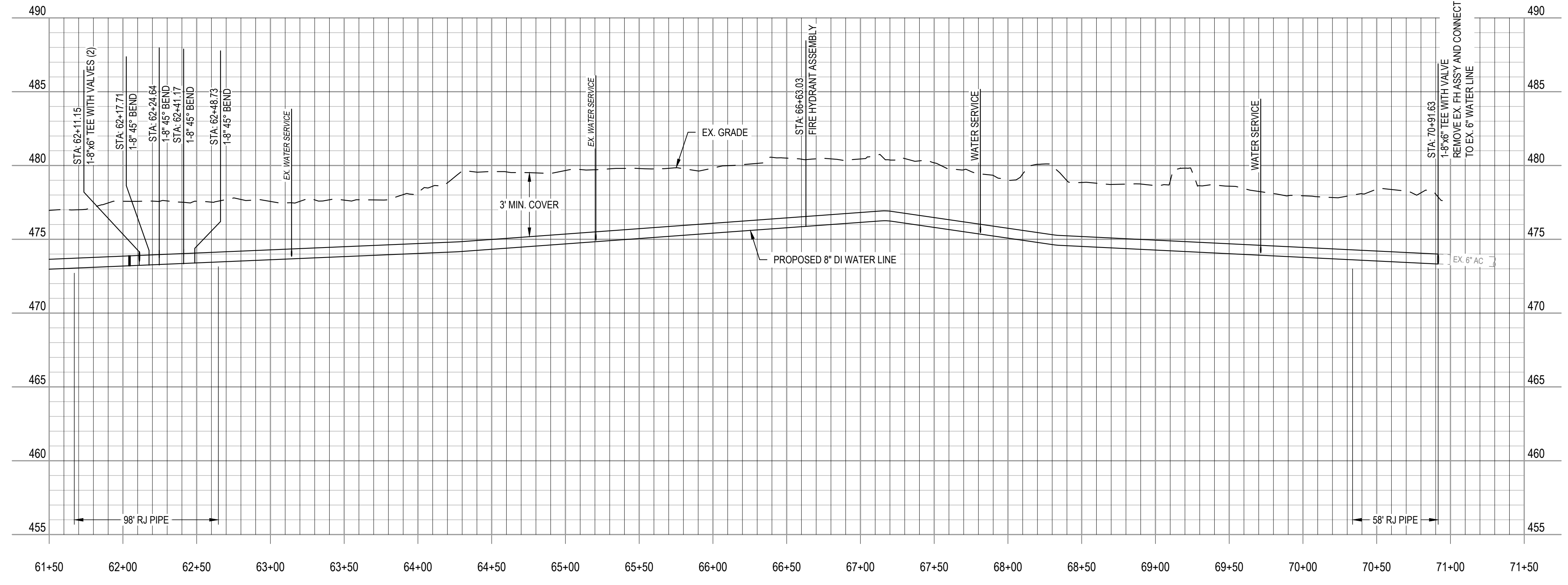
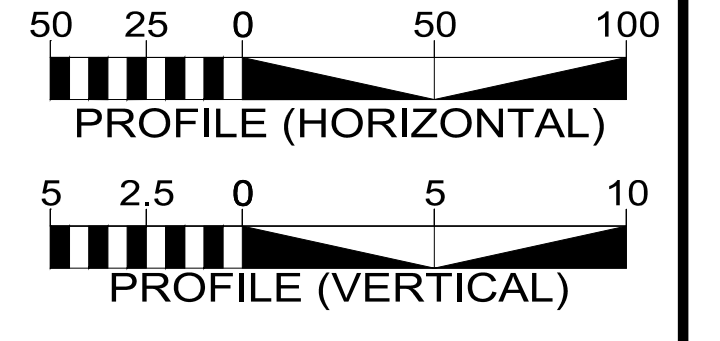
PROJECT REFERENCE NO. R-3830	SHEET NO. UC-35
DESIGNED BY: MCW	DocuSigned by: <i>Michael Wicker</i> SEAL CF2CEAE2882C404...
DRAWN BY: PAP	
CHECKED BY: JWW	
APPROVED BY:	
REVISED:	
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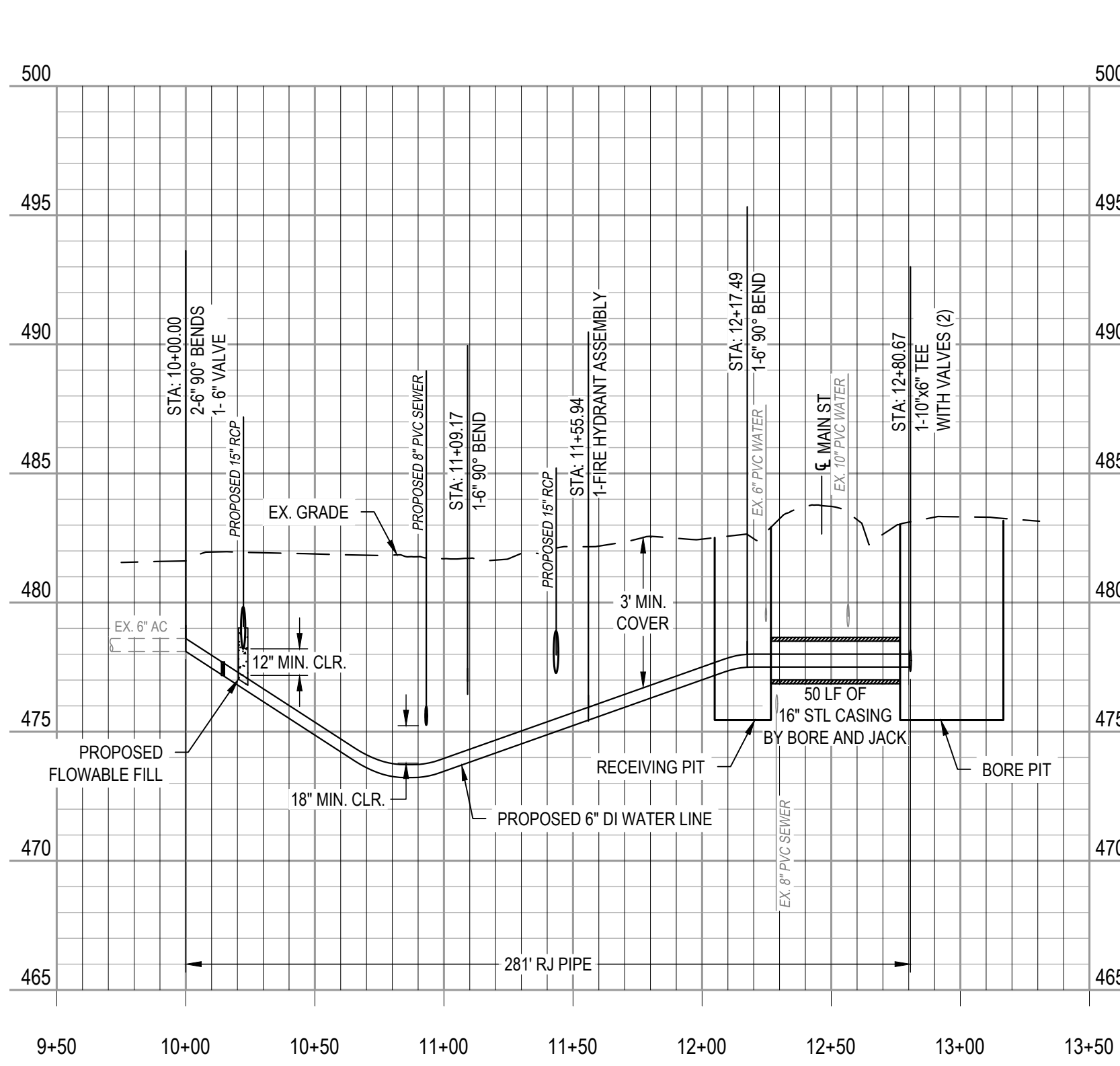
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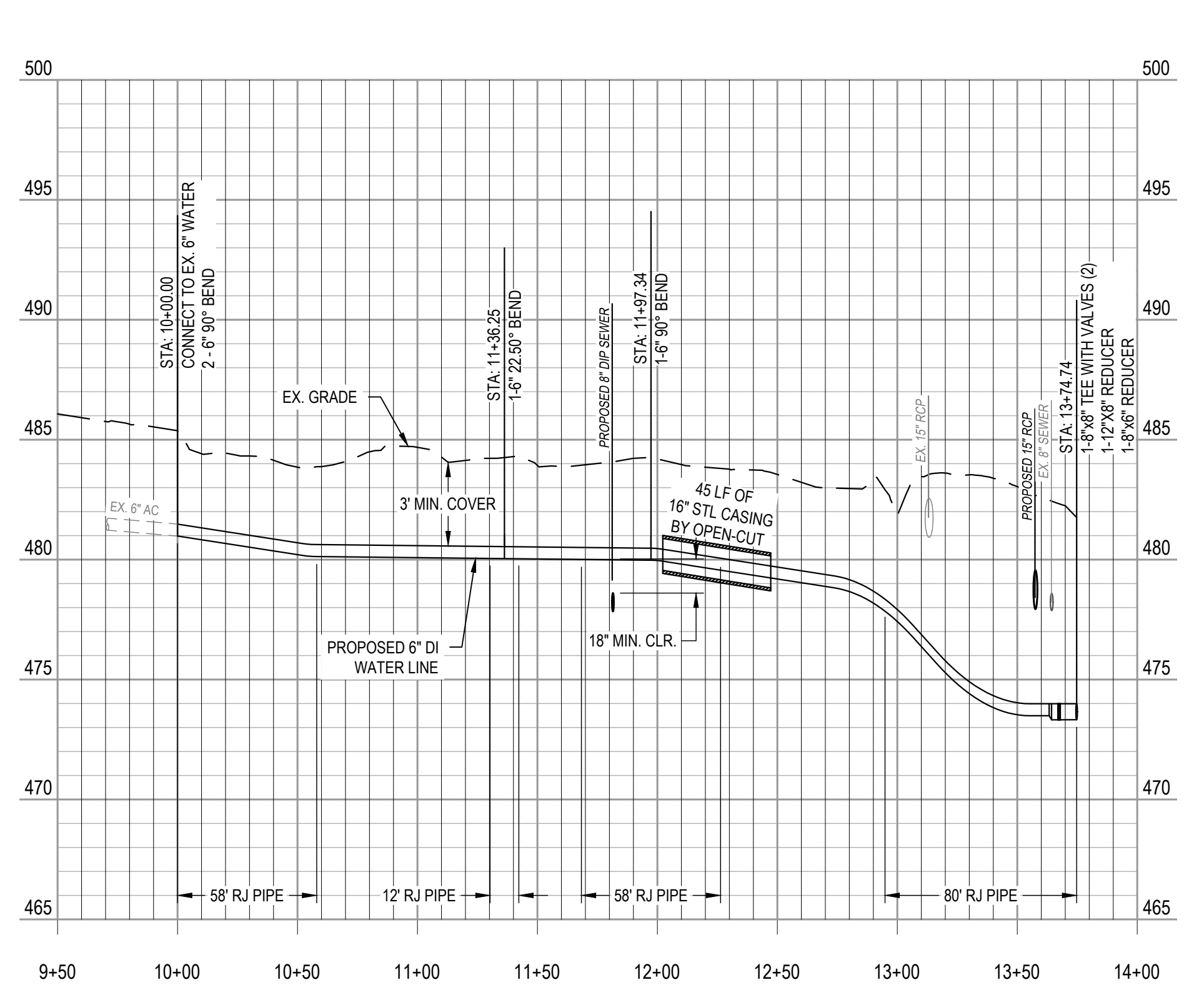
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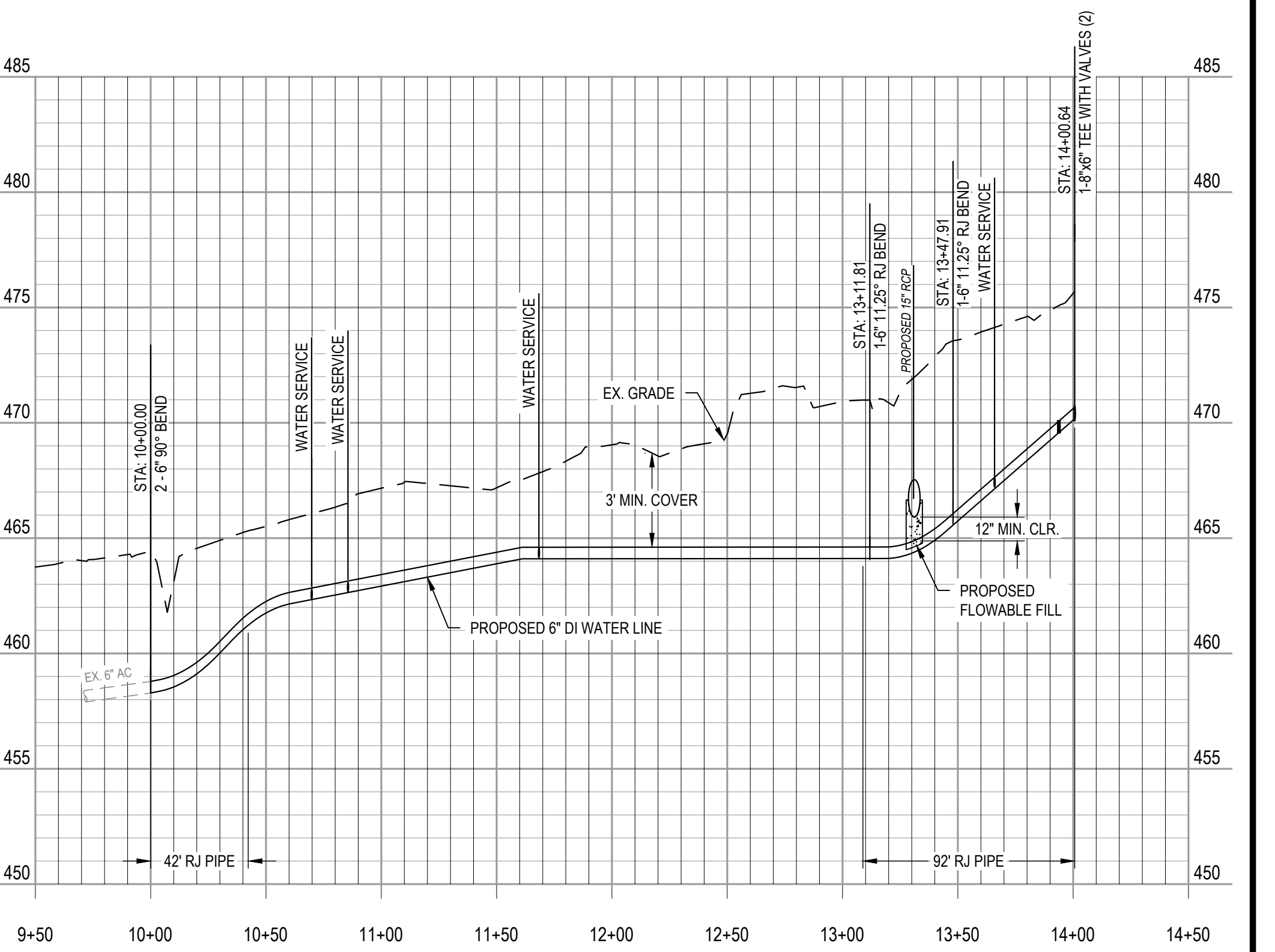
WATER -W1-



WATER -W2-



WATER -W3-



WATER -W4-

REVISIONS

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