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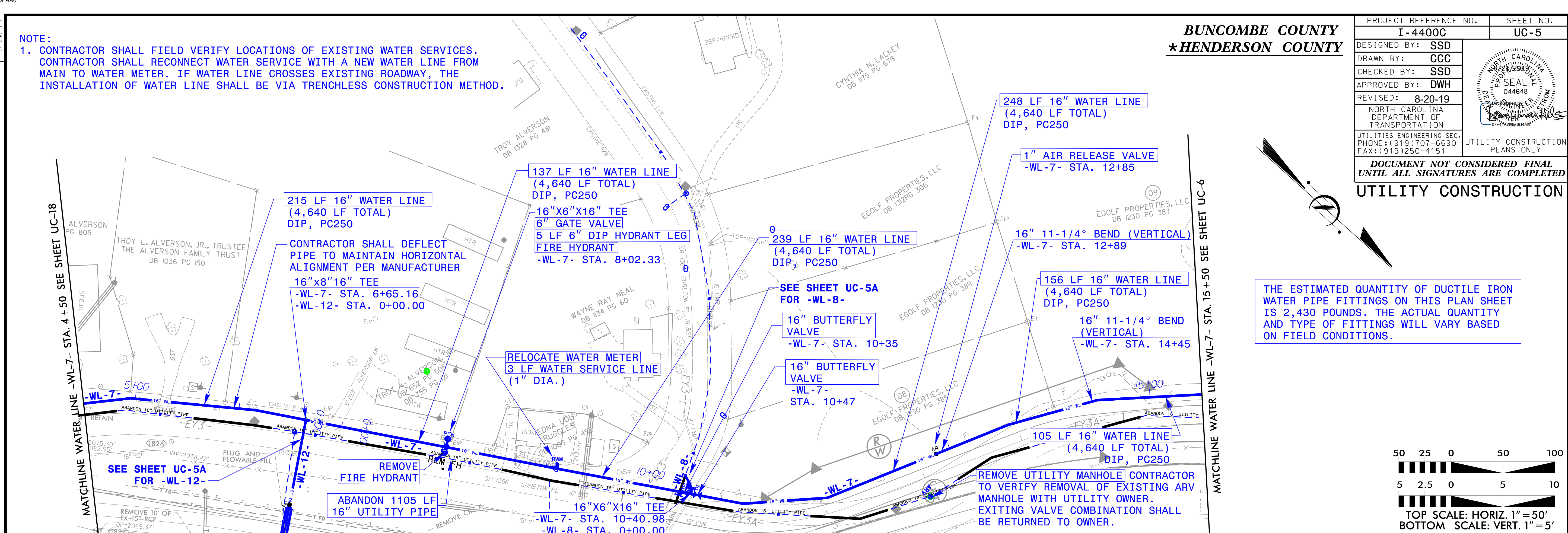
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6-20-19

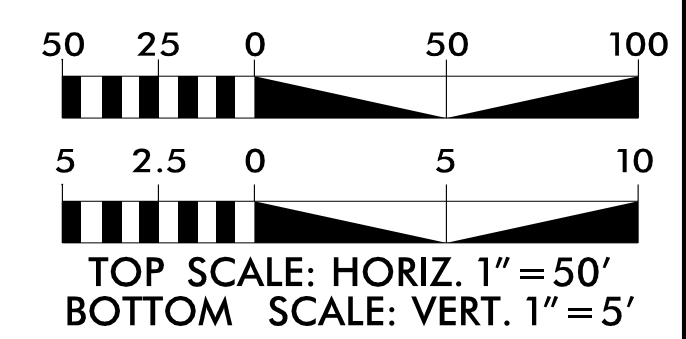
NOTE:
 1. CONTRACTOR SHALL FIELD VERIFY LOCATIONS OF EXISTING WATER SERVICES. CONTRACTOR SHALL RECONNECT WATER SERVICE WITH A NEW WATER LINE FROM MAIN TO WATER METER. IF WATER LINE CROSSES EXISTING ROADWAY, THE INSTALLATION OF WATER LINE SHALL BE VIA TRENCHLESS CONSTRUCTION METHOD.

BUNCOMBE COUNTY
***HENDERSON COUNTY**

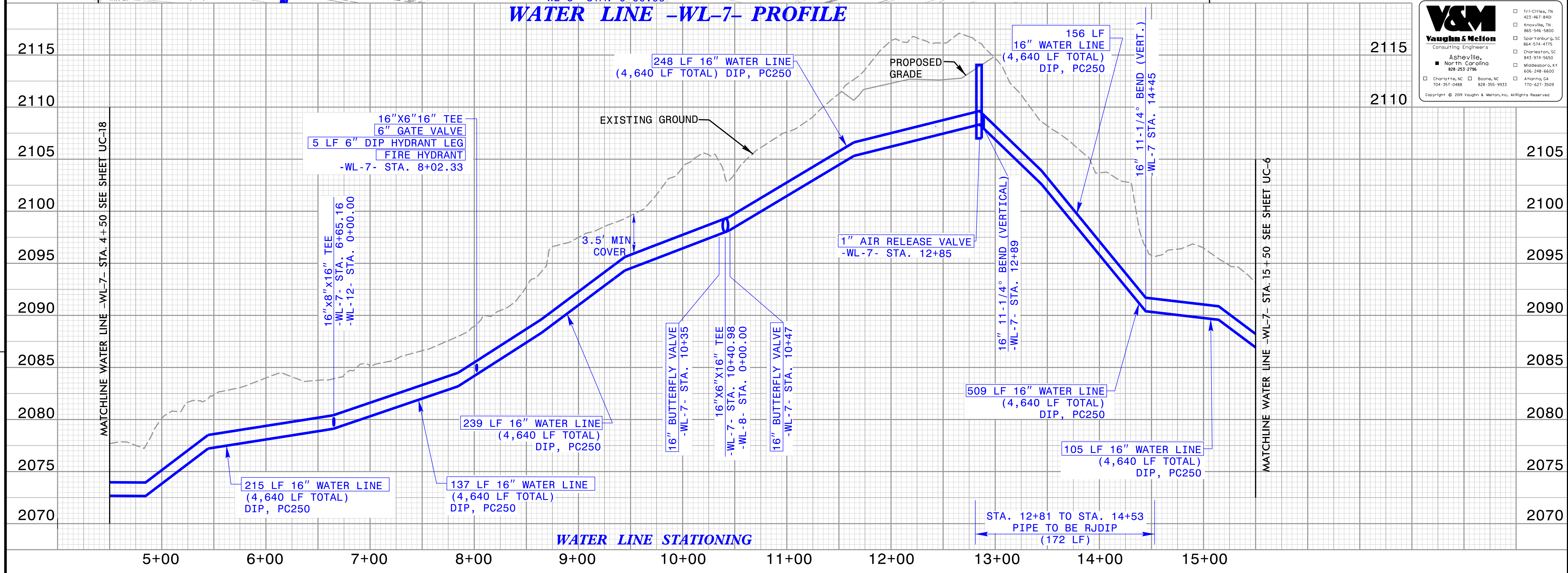
PROJECT REFERENCE NO.	SHEET NO.
I-4400C	UC-5
DESIGNED BY: SSD	
DRAWN BY: CCC	
CHECKED BY: SSD	
APPROVED BY: DWH	
REVISED: 8-20-19	UTILITY CONSTRUCTION PLANS ONLY
UTILITIES ENGINEERING, SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
DOCUMENT NOT CONSIDERED FINAL UNTIL ALL SIGNATURES ARE COMPLETED UTILITY CONSTRUCTION	



THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 2,430 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.



WATER LINE -WL-7- PROFILE



V&M
Vaughn & Melton
 Consulting Engineers

Asheville, NC
 704-357-0488

North Carolina
 828-253-2796

Boone, NC
 828-355-9933

Atlanta, GA
 770-627-3509

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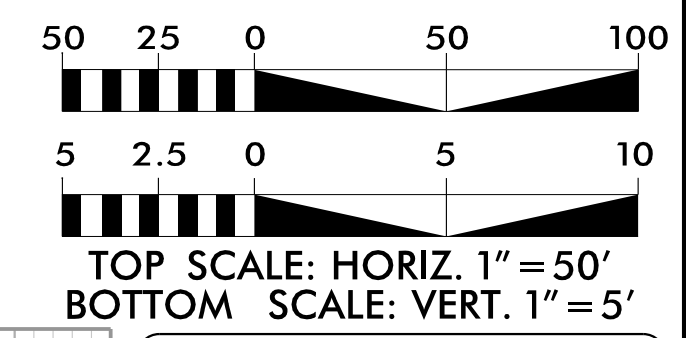
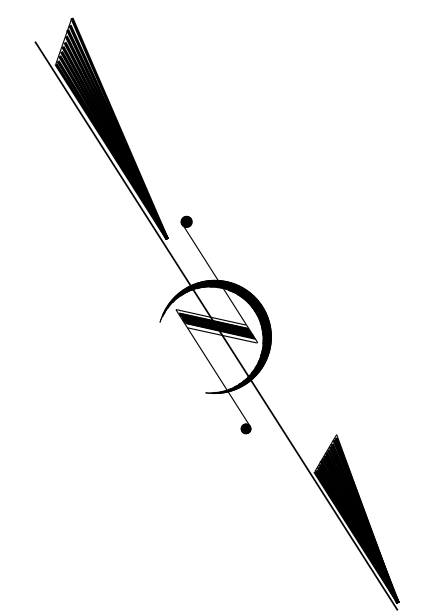
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PROJECT REFERENCE NO. I-4400C	SHEET NO. UC-5B
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UTILITY CONSTRUCTION



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Consulting Engineers

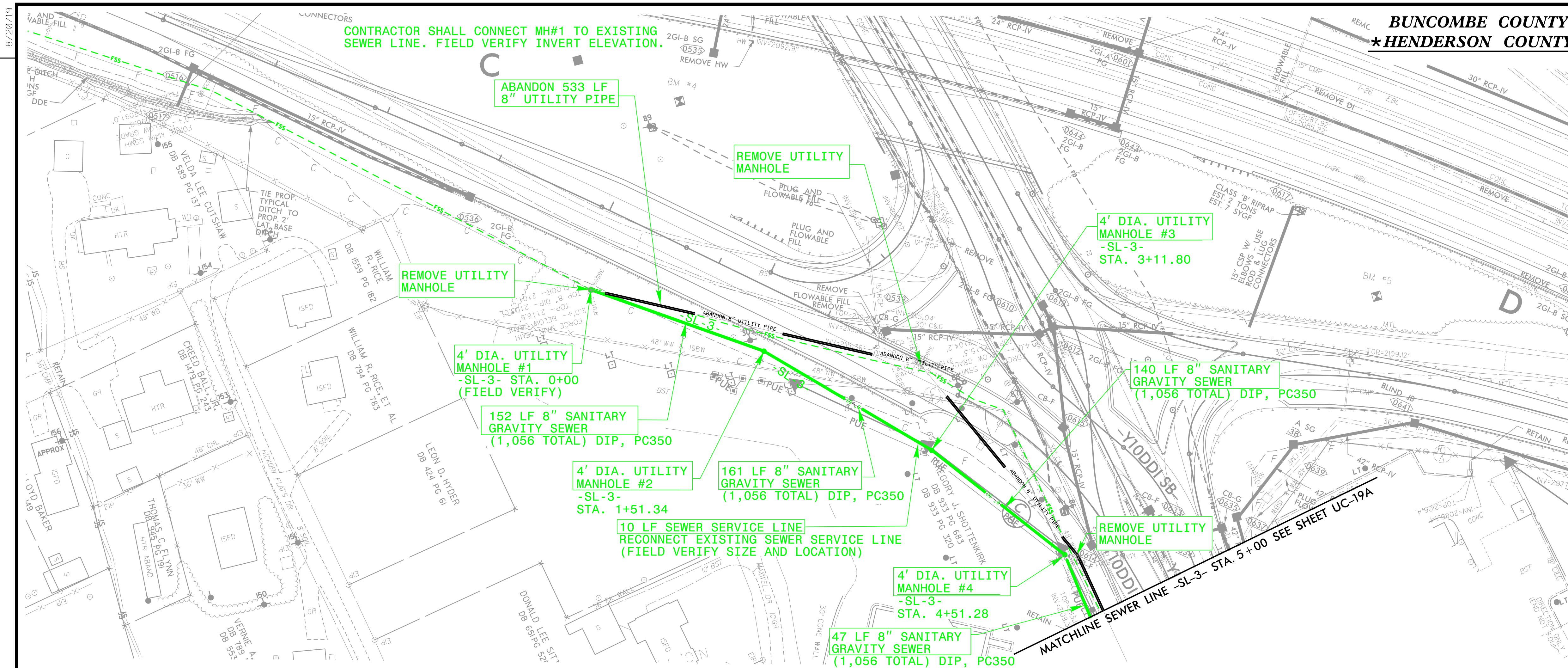
Asheville, NC
704-351-0488

Boone, NC
828-355-9933

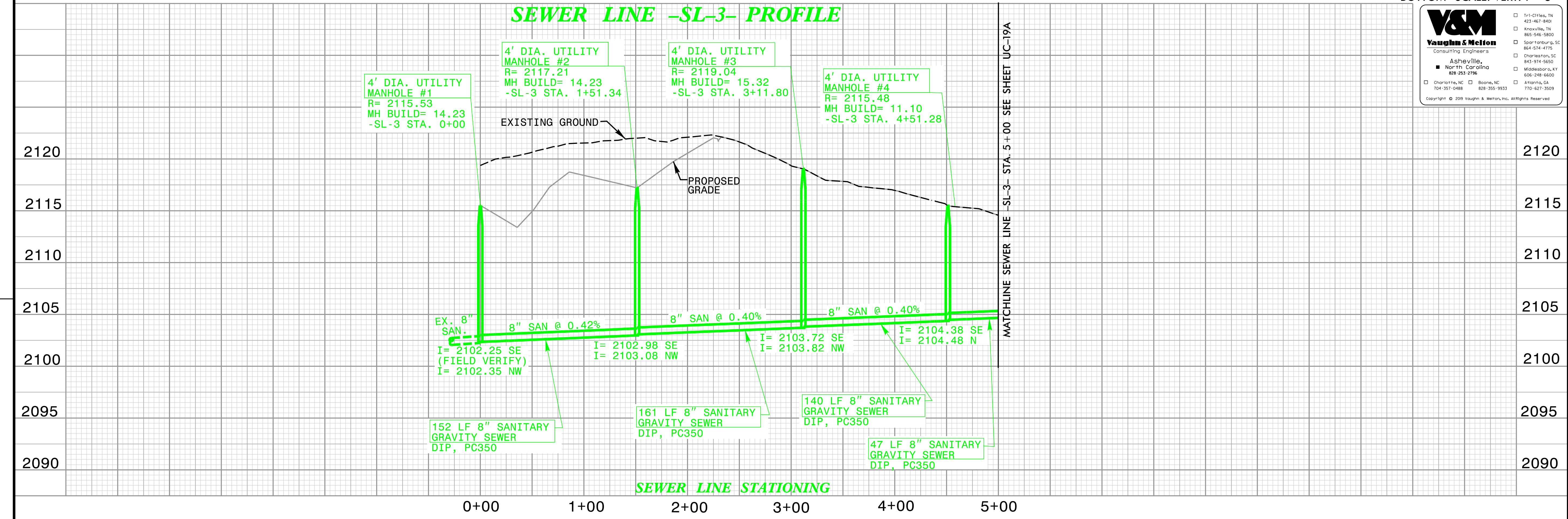
Atlanta, GA
770-627-3509

Other locations: Knoxville, TN; Memphis, TN; Spartanburg, SC; Charleston, SC; Midwestern, KY; Knoxville, TN.

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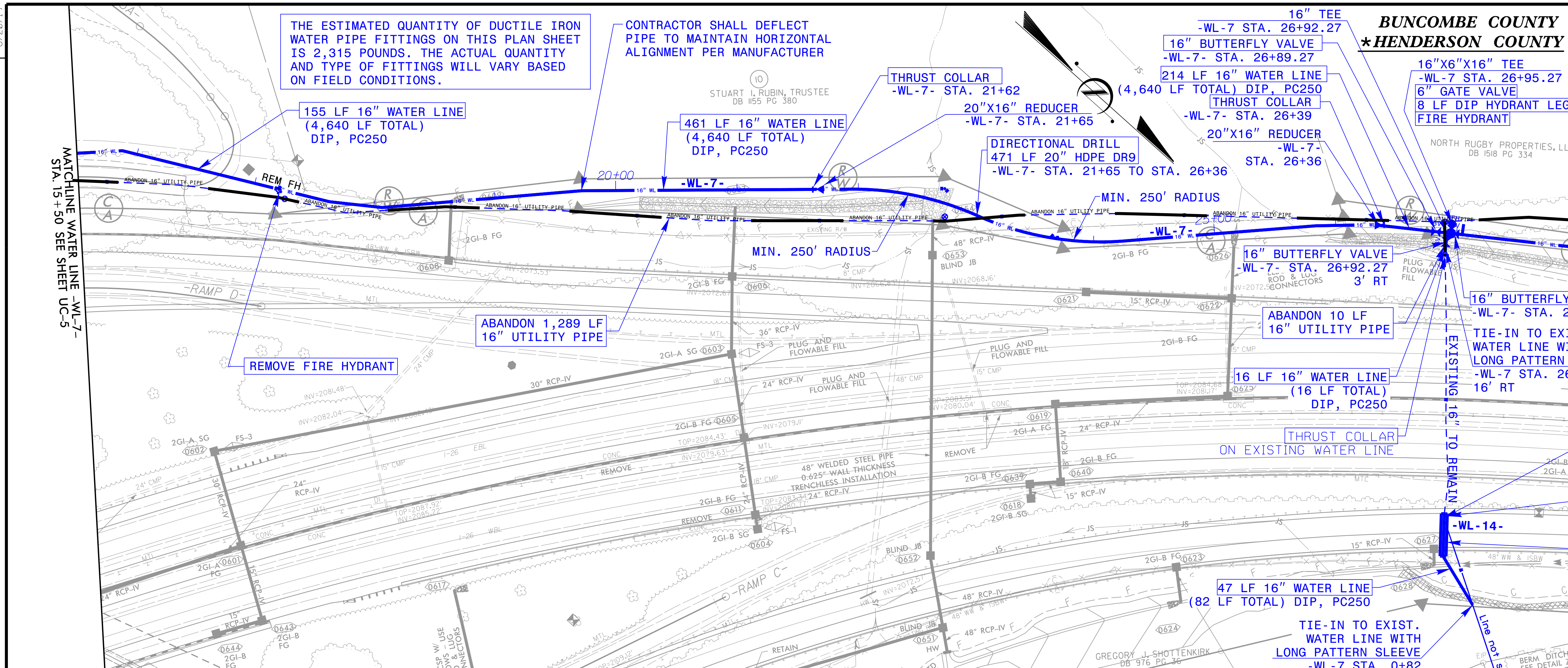


SEWER LINE -SL-3- PROFILE



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8/20/19



PROJECT REFERENCE NO.	SHEET NO.
I-4400C	UC-6
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UTILITY CONSTRUCTION

EXTEND EXISTING DIP AND CASING APPROXIMATELY 35 LF PAST PROPOSED GUARDRAIL TIE-IN TO EXIST. WATER LINE WITH LONG PATTERN SLEEVE -WL-14- STA. 0+00

35 LF 30" STEEL ENCASUREMENT PIPE BY OPEN CUT 0.5" MIN WALL THICKNESS STA. 0+00 TO STA. 0+35

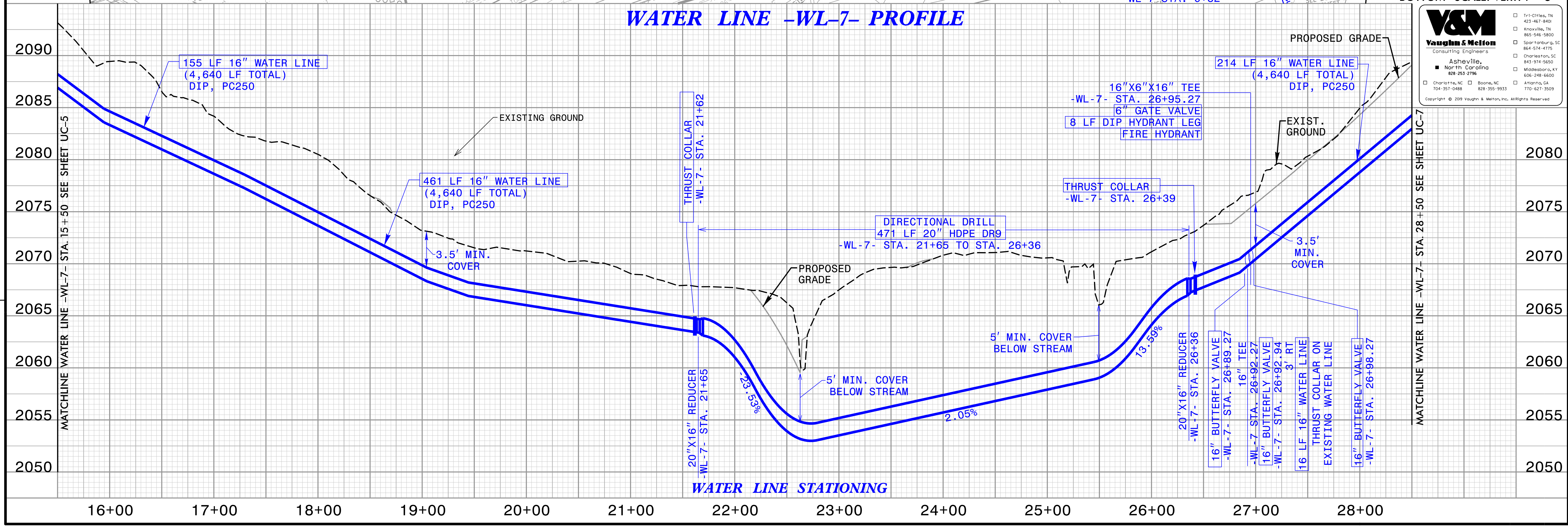
35 LF 16" WATER LINE (82 LF TOTAL) DIP, PC250

50 25 0 50 100

5 2.5 0 5 10

TOP SCALE: HORIZ. 1" = 50'
BOTTOM SCALE: VERT. 1" = 5'

WATER LINE -WL-7- PROFILE



Consulting Engineers

Asheville, North Carolina 828-253-2796

Boone, NC 828-355-9933

1110 Hix, TN 423-462-8400

Knoxville, TN 865-546-5800

Spartanburg, SC 864-574-4775

Charleston, SC 843-974-5650

Middlesboro, KY 606-246-6600

Atlanta, GA 770-627-3509

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NOTE:

1. CONTRACTOR SHALL FIELD VERIFY ANY EXISTING FIRE HYDRANT THAT IS TO BE RELOCATED OR RECONNECTED. IF HYDRANT DOES NOT HAVE NATIONAL STANDARD THREADS (NST) OR IS OLDER THAN 1990 OR IS A US PIPE HYDRANT, THE HYDRANT SHALL BE REPLACED.

CONTRACTOR SHALL USE DEFLECT PIPE TO MAINTAIN HORIZONTAL ALIGNMENT PER MANUFACTURER

THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 1,440 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

BUNCOMBE COUNTY
*HENDERSON COUNTY

PROJECT REFERENCE NO. I-4400C SHEET NO. UC-7

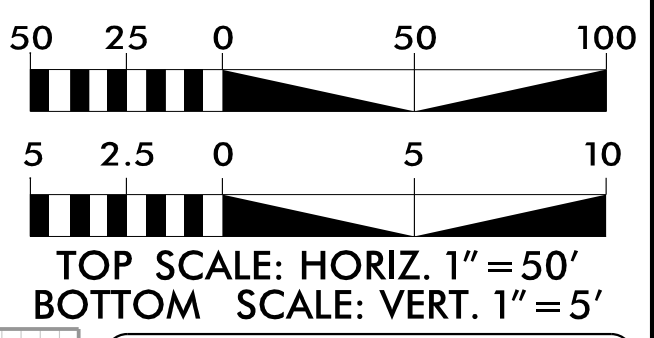
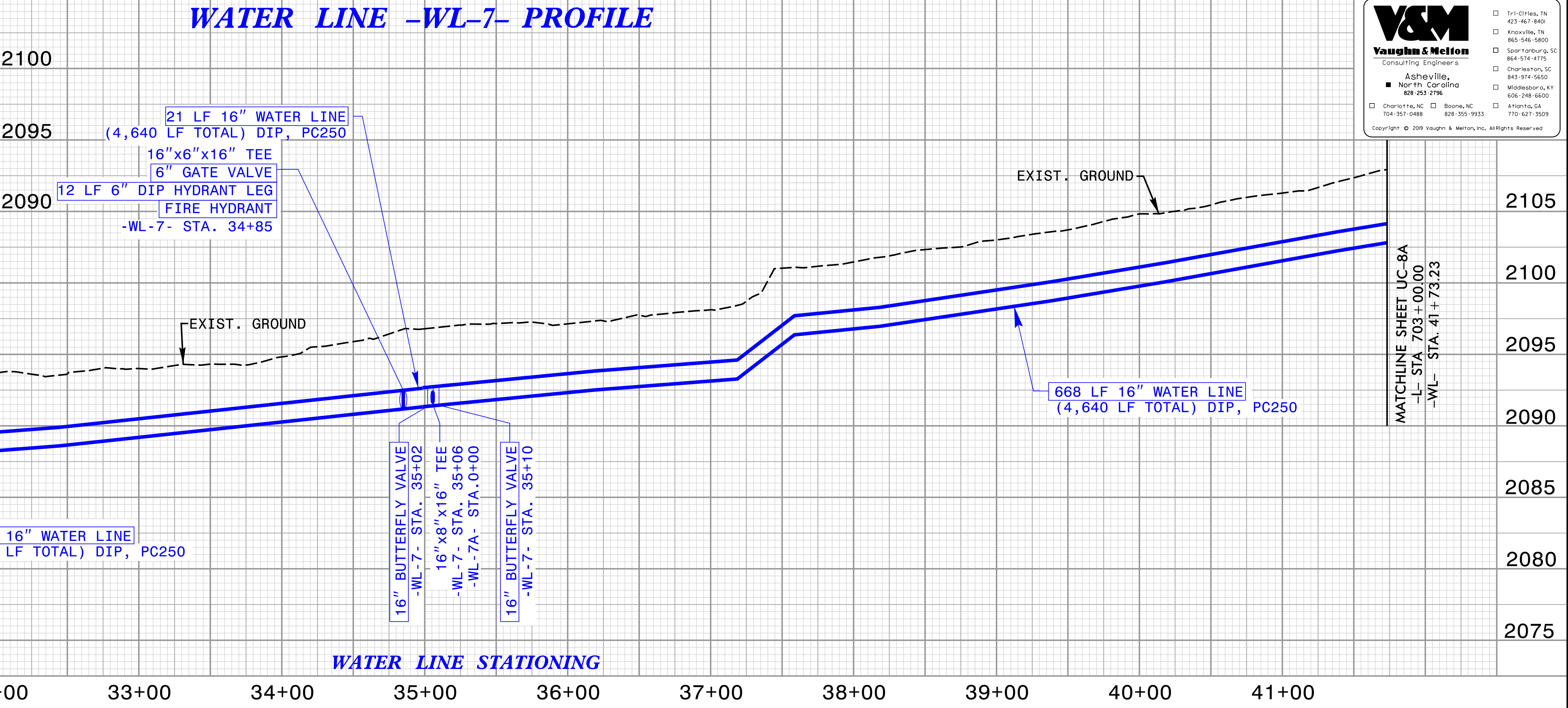
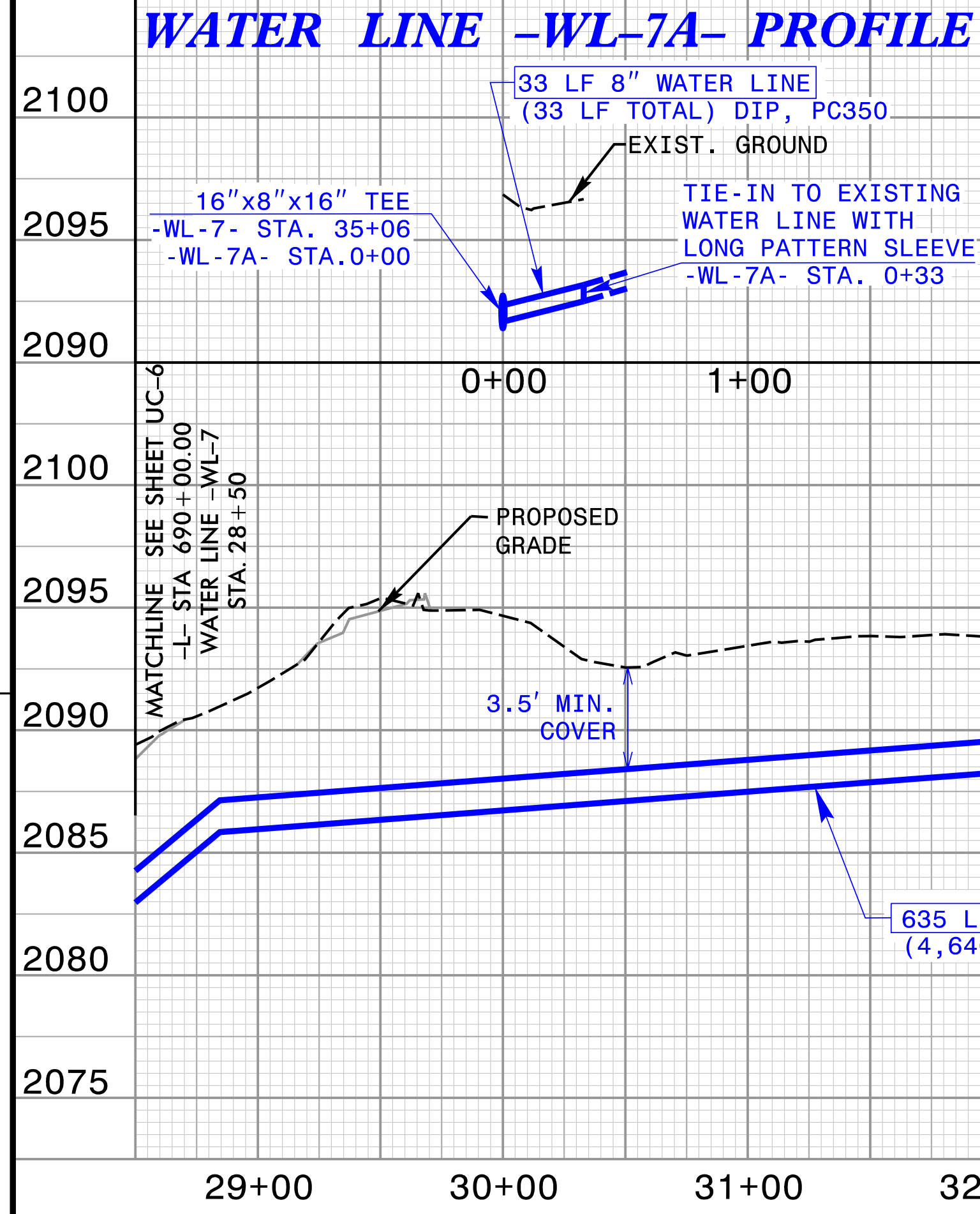
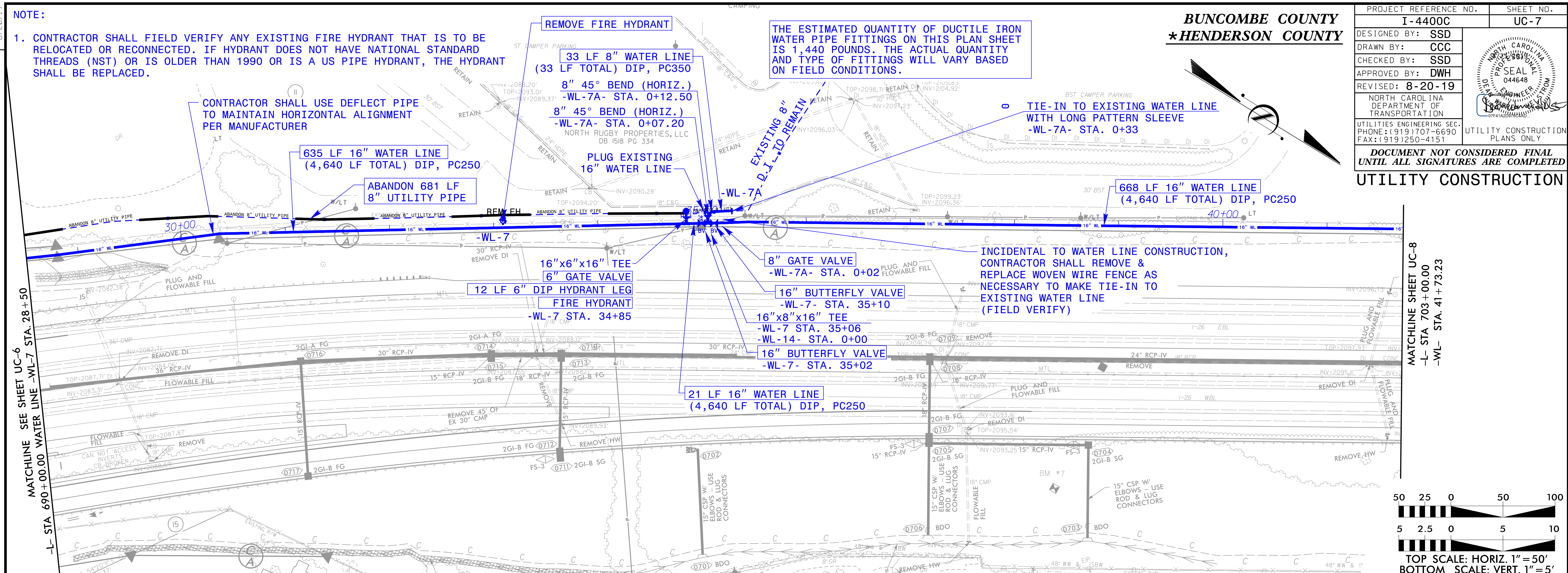
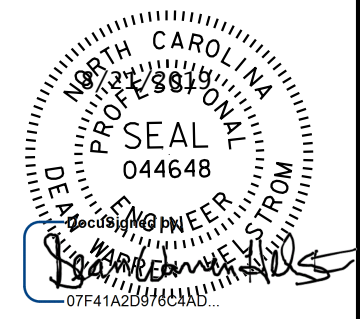
DESIGNED BY: SSD
DRAWN BY: CCC
CHECKED BY: SSD
APPROVED BY: DWH
REVISED: 8-20-19

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UTILITY CONSTRUCTION PLANS ONLY

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UTILITY CONSTRUCTION



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Asheville, NC
704-351-0488

North Carolina
828-253-2796

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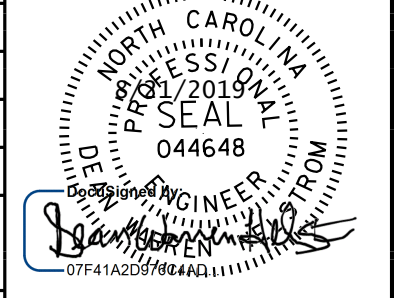
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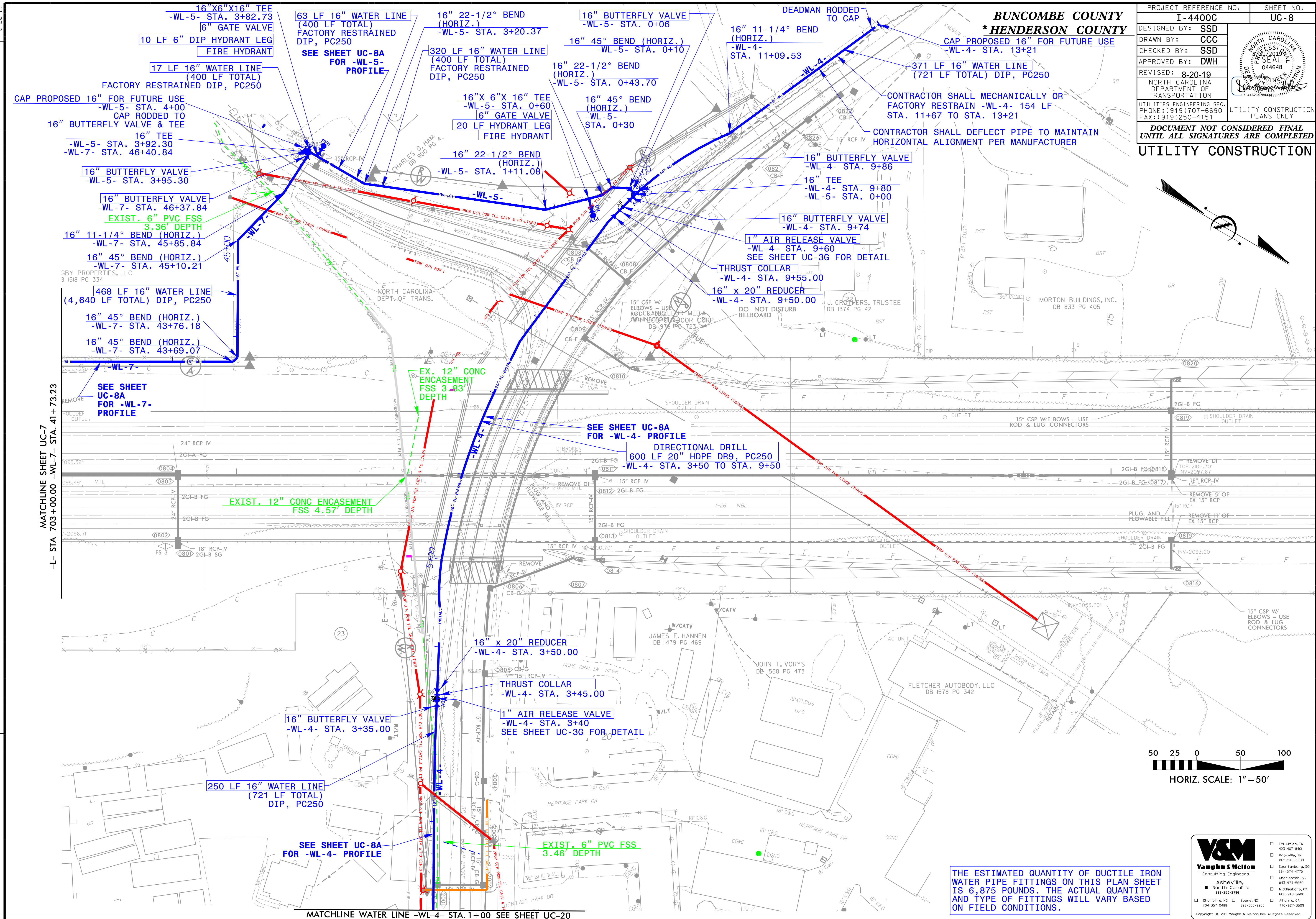
BUNCOMBE COUNTY * HENDERSON COUNTY

PROJECT REFERENCE NO.	I-4400C
SHEET NO.	UC-8
DESIGNED BY:	SSD
DRAWN BY:	CCC
CHECKED BY:	SSD
APPROVED BY:	DWH
REVISED:	8-20-19
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
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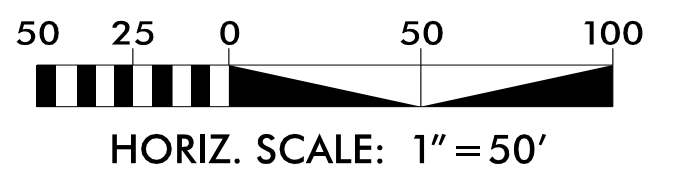
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UTILITY CONSTRUCTION



MATCHLINE SHEET UC-7
-L- STA 703+00.00 -WL-7- STA. 41+73.23

MATCHLINE WATER LINE -WL-4- STA. 1+00 SEE SHEET UC-20



THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 6,875 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

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Asheville, North Carolina
828-253-2796

- Tri-Cities, TN 423-467-8401
- Knoxville, TN 865-946-1900
- Spartanburg, SC 864-574-4775
- Charleston, SC 843-974-5600
- Indianapolis, IN 606-248-6600
- Charlottesville, VA 804-351-0488
- Boone, NC 828-355-9933
- Ashland, VA 770-627-3509

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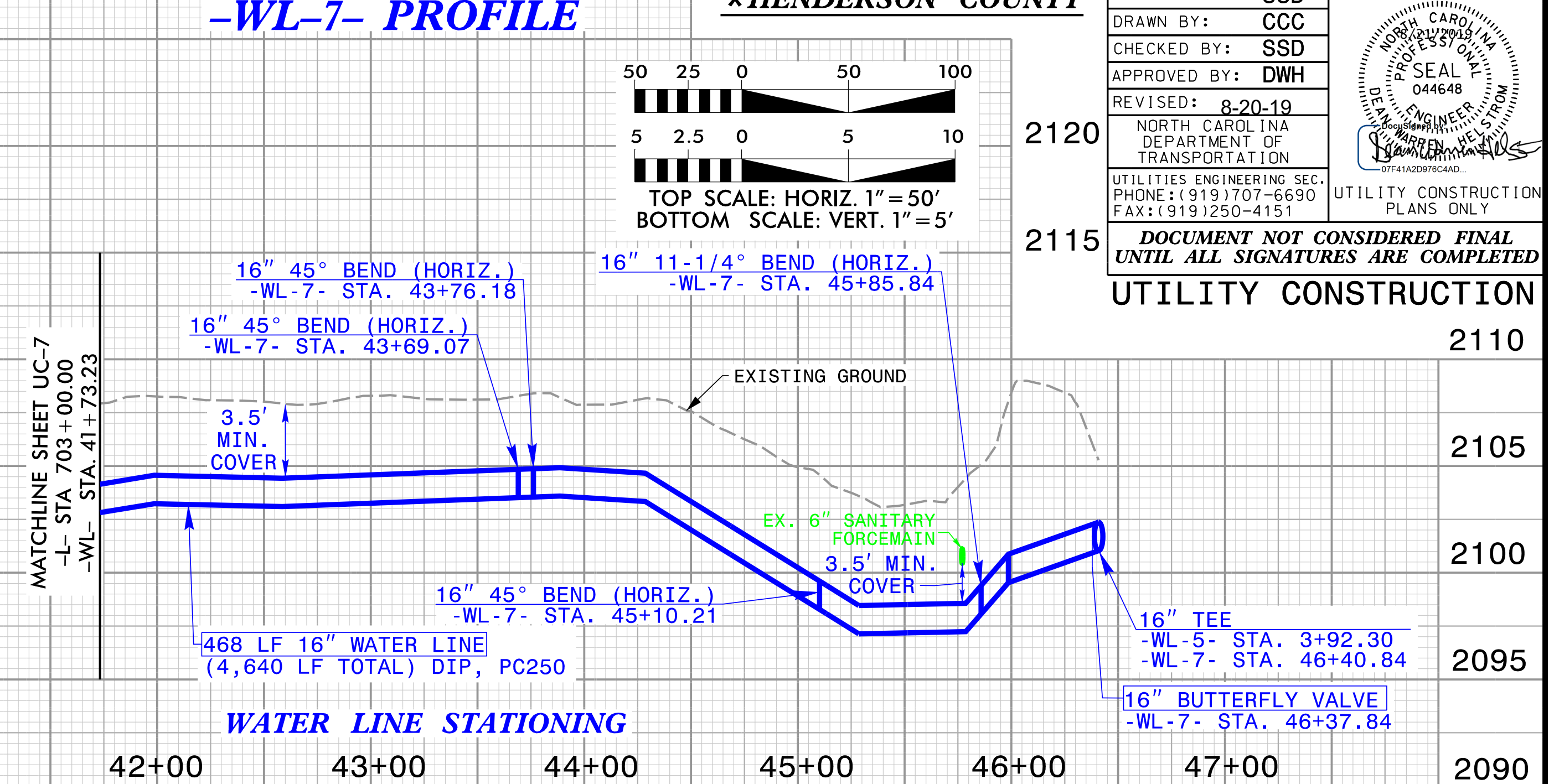
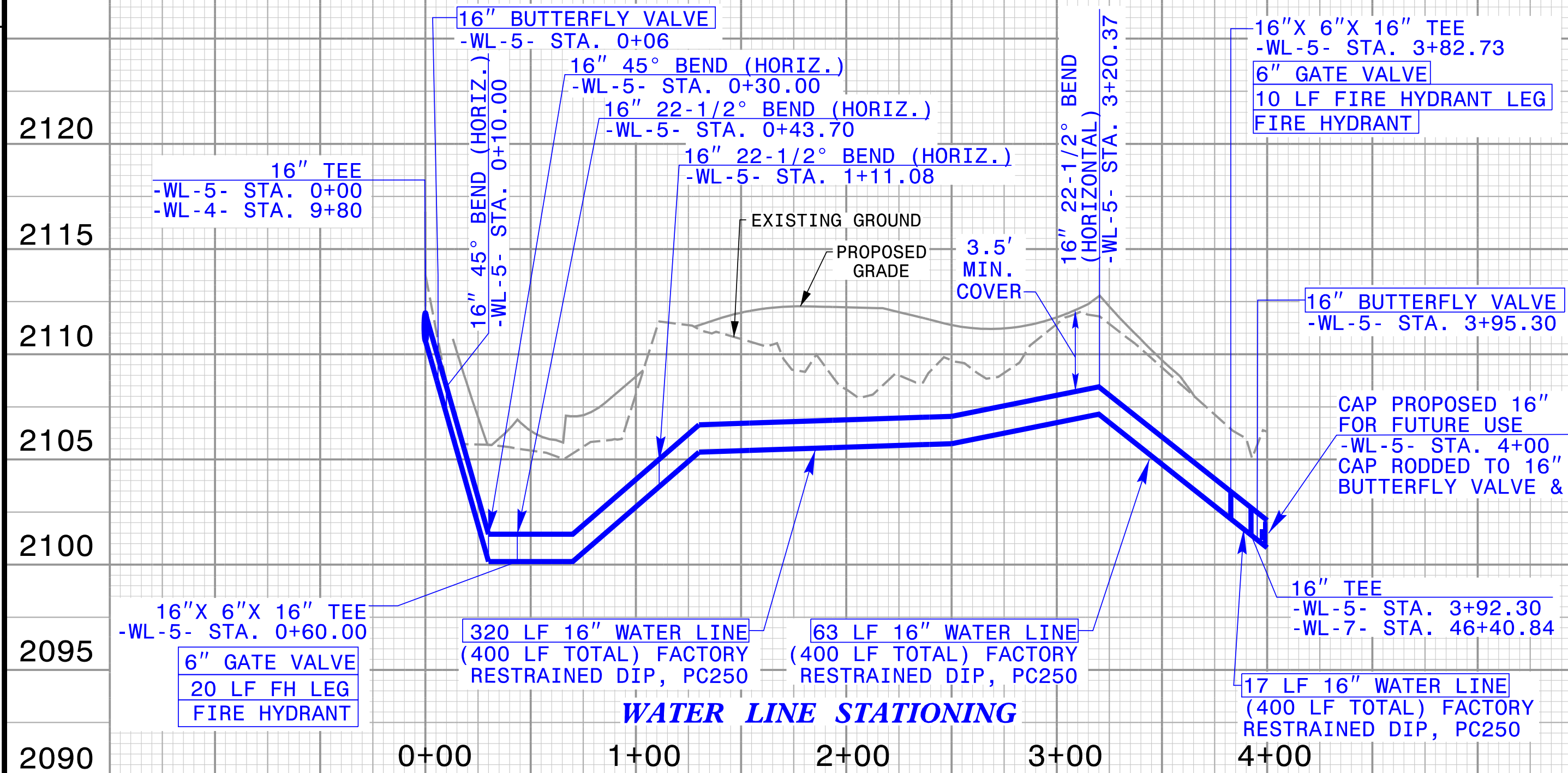
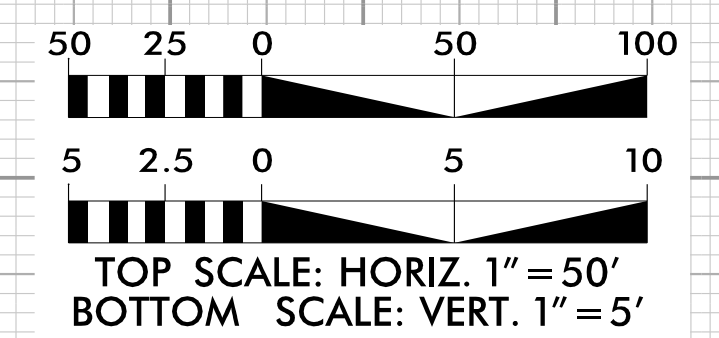
6/20/19

WATER LINE -WL-5- PROFILE

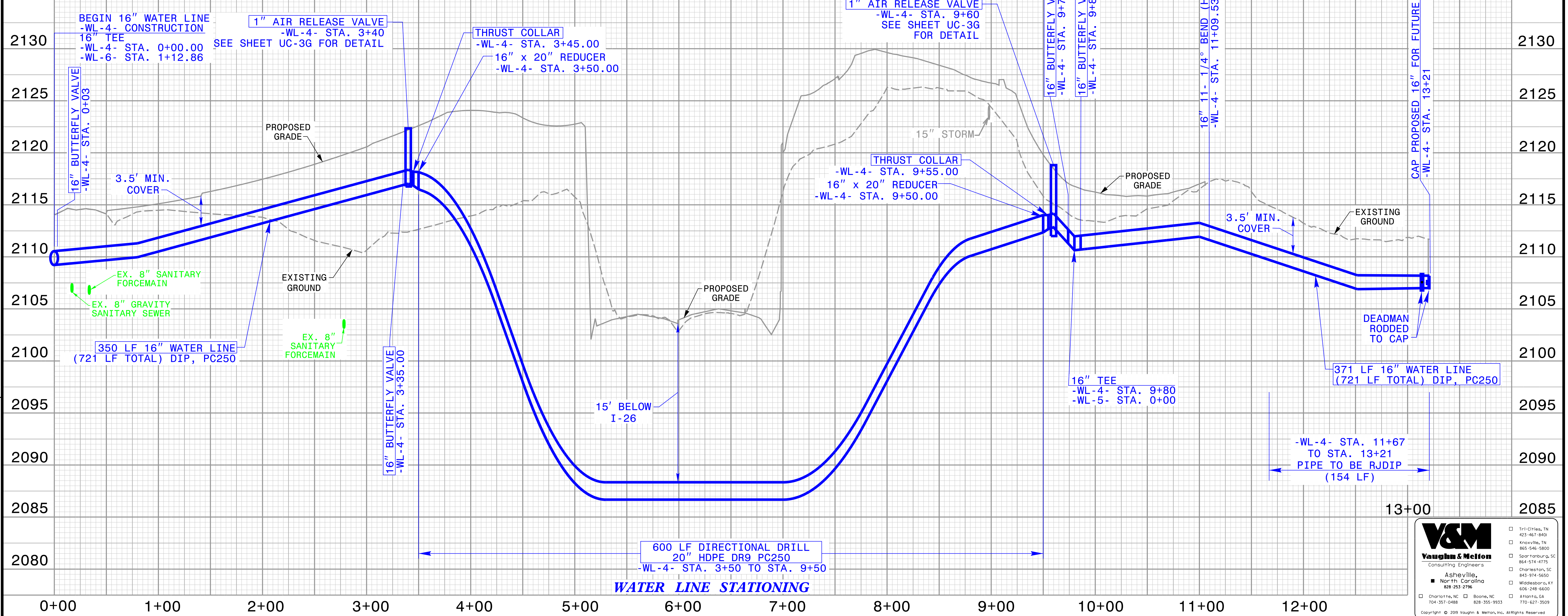
WATER LINE -WL-7- PROFILE

**BUNCOMBE COUNTY
*HENDERSON COUNTY**

PROJECT REFERENCE NO.	SHEET NO.
I-4400C	UC-8A
DESIGNED BY: SSD	
DRAWN BY: CCC	
CHECKED BY: SSD	
APPROVED BY: DWH	
REVISED: 8-20-19	
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WATER LINE -WL-4- PROFILE



REVISIONS

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Vaughn & Melton
Consulting Engineers

Asheville, NC
704-357-0488

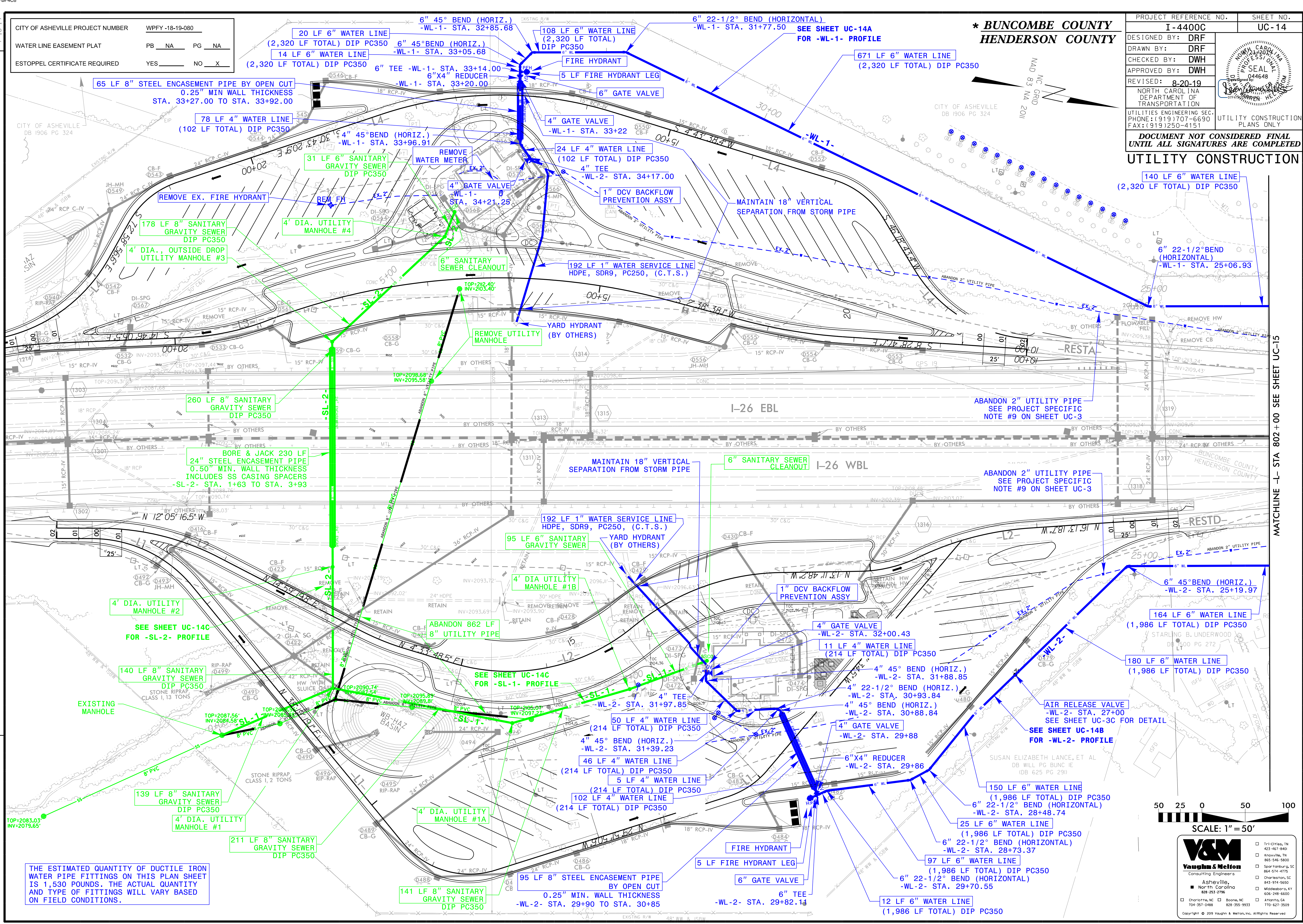
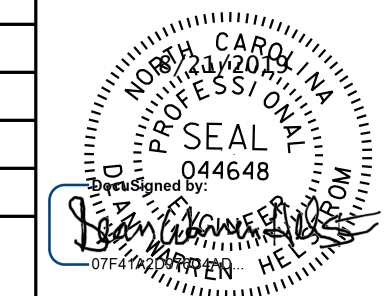
Tri-Cities, TN 423-467-8400
 Knoxville, TN 865-546-5800
 Spartanburg, SC 864-574-0775
 Charleston, SC 843-974-5650
 Middleboro, NY 609-248-5600
 Charlotte, NC 828-253-2796
 Boone, NC 828-355-9933
 Atlanta, GA 770-627-3509

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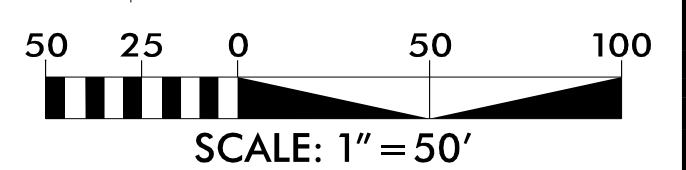
CITY OF ASHEVILLE PROJECT NUMBER	WPFY-18-19-080
WATER LINE EASEMENT PLAT	PB NA PG NA
ESTOPPEL CERTIFICATE REQUIRED	YES NO X

*** BUNCOMBE COUNTY
HENDERSON COUNTY**

PROJECT REFERENCE NO.	I-4400C
SHEET NO.	UC-14
DESIGNED BY:	DRF
DRAWN BY:	DRF
CHECKED BY:	DWH
APPROVED BY:	DWH
REVISED:	8-20-19
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	UTILITY CONSTRUCTION PLANS ONLY
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THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 1,530 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.



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Asheville, NC
North Carolina
828-253-2796

- Tri-Cities, TN 423-461-8401
- Knoxville, TN 865-546-5900
- Spartanburg, SC 864-574-4775
- Charleston, SC 843-374-5650
- Millsboro, DE 302-438-6600
- Atlanta, GA 404-357-0488
- Birmingham, AL 205-988-9933
- 770-627-3509

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7-16-19

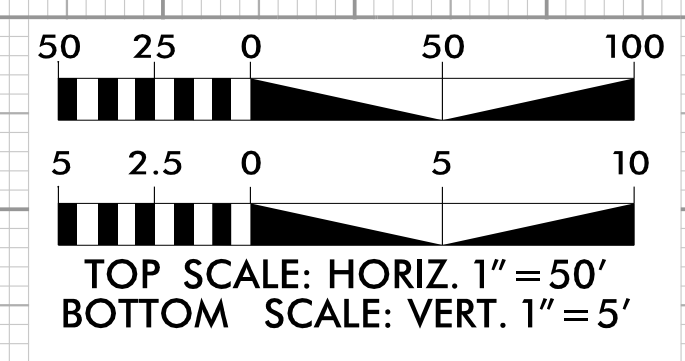
MATCHLINE -L- STA 802+00 SEE SHEET UC-15

WATER LINE -WL-1- PROFILE

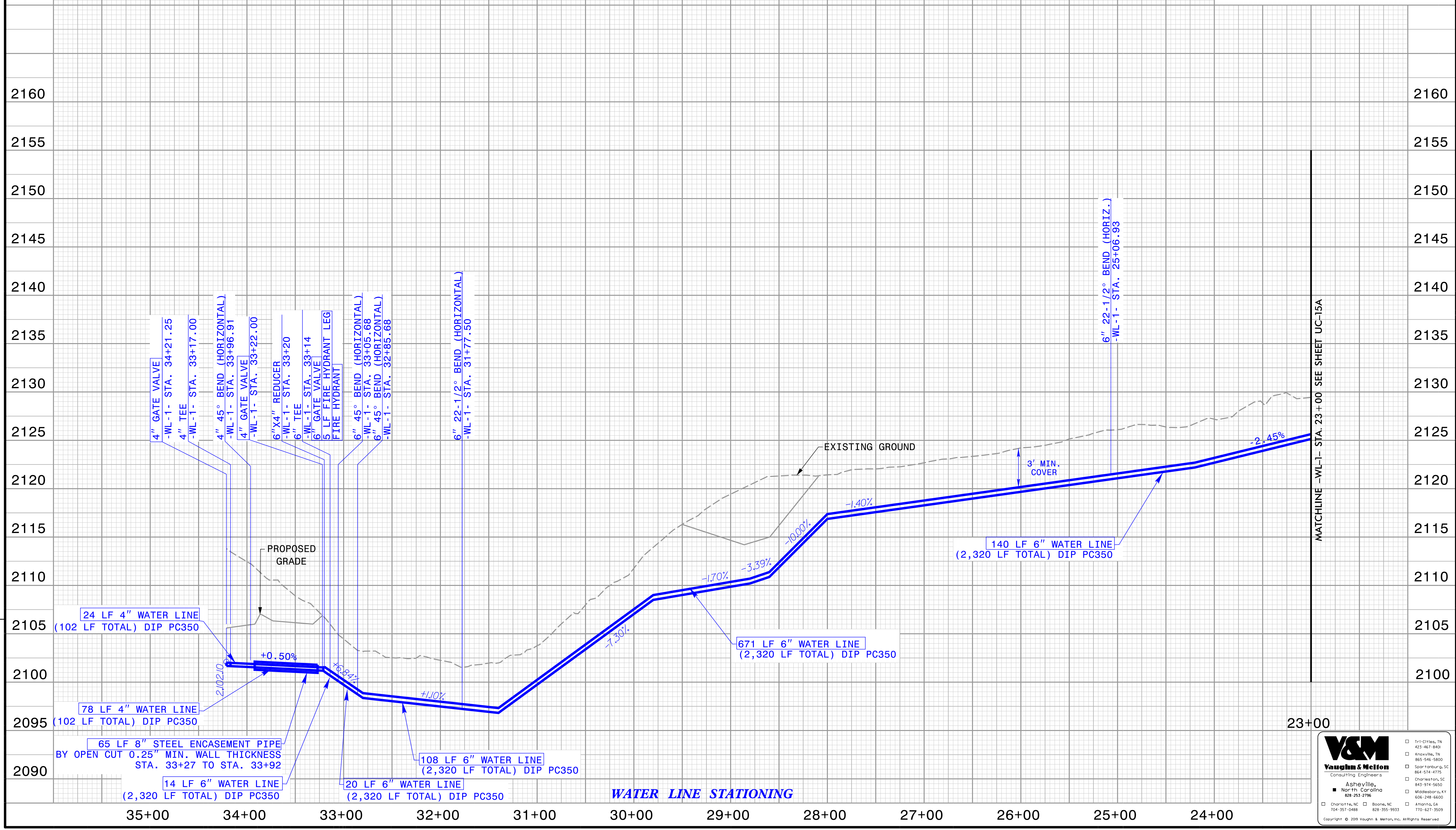
*** BUNCOMBE COUNTY
HENDERSON COUNTY**

PROJECT REFERENCE NO.	SHEET NO.
I-4400C	UC-14A
DESIGNED BY: DRF	
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CHECKED BY: DWH	
APPROVED BY: DWH	
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UTILITY CONSTRUCTION	

CITY OF ASHEVILLE PROJECT NUMBER	WPFY -18-19-080
WATER LINE EASEMENT PLAT	PB <u>NA</u> PG <u>NA</u>
ESTOPPEL CERTIFICATE REQUIRED	YES <u> </u> NO <u>X</u>



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WATER LINE STATIONING

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Asheville, North Carolina
 828-253-2796

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 Knoxville, TN 865-946-5800
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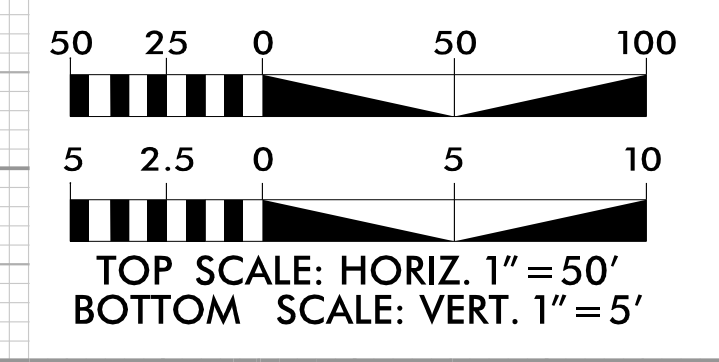
7-3-19

WATER LINE -WL-2- PROFILE

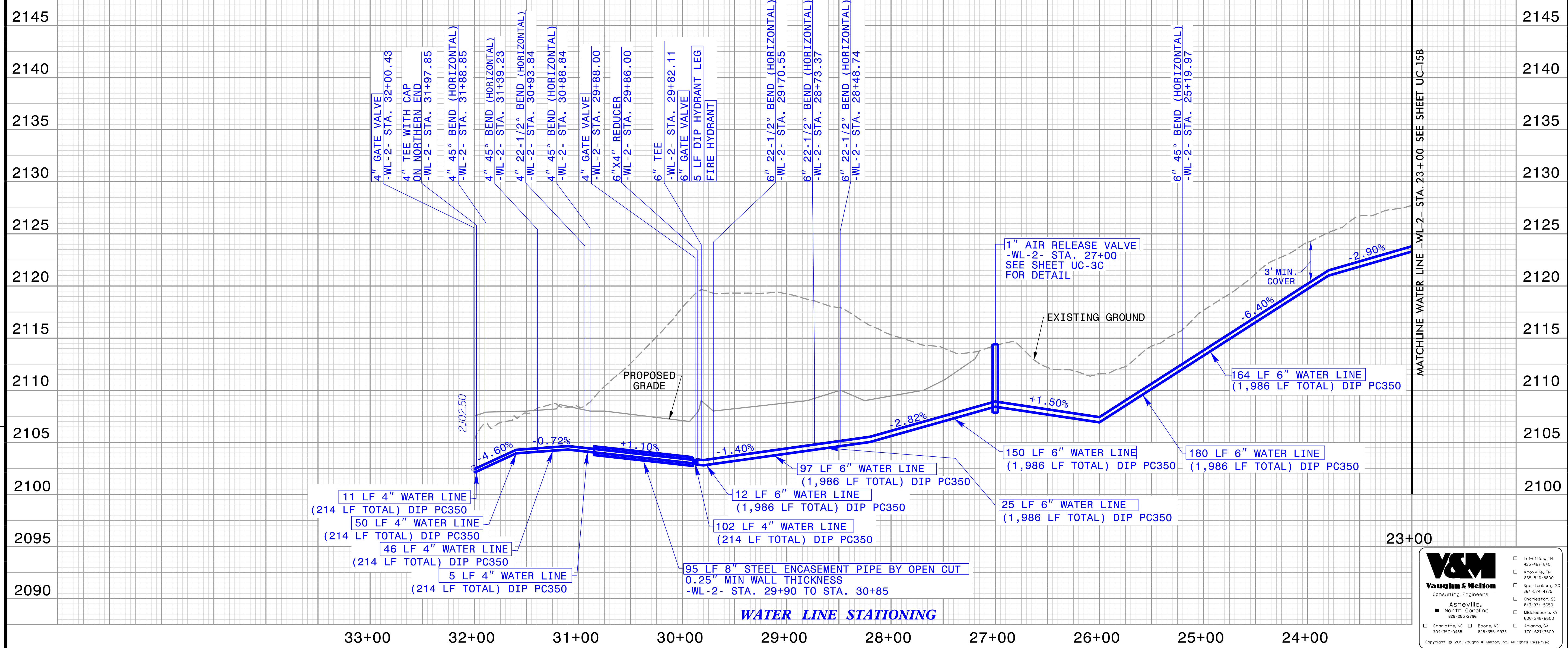
*** BUNCOMBE COUNTY
HENDERSON COUNTY**

PROJECT REFERENCE NO.	SHEET NO.
I-4400C	UC-14B
DESIGNED BY: DRF	
DRAWN BY: DRF	
CHECKED BY: DWH	
APPROVED BY: DWH	
REVISED: 8-20-19	
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CITY OF ASHEVILLE PROJECT NUMBER	WPFY-18-19-080
WATER LINE EASEMENT PLAT	PB <u>NA</u> PG <u>NA</u>
ESTOPPEL CERTIFICATE REQUIRED	YES <u> </u> NO <u>X</u>



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23+00

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 828-253-2796

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- Knockville, TN 865-946-5800
- Spartanburg, SC 864-574-4775
- Charleston, SC 843-974-5650
- Wadesboro, NC 606-248-6600
- Charlotte, NC 704-357-0488
- Boone, NC 828-355-9933
- Athens, GA 770-627-3509

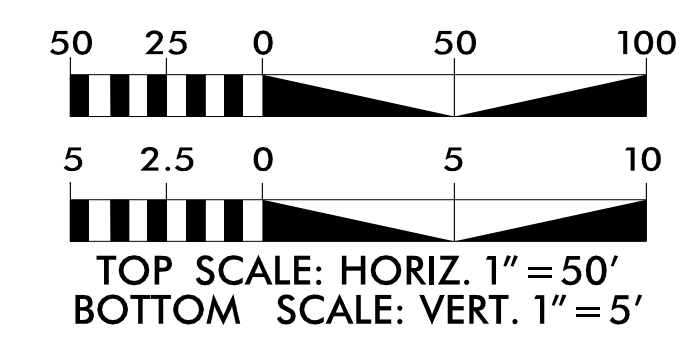
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*** BUNCOMBE COUNTY
HENDERSON COUNTY**

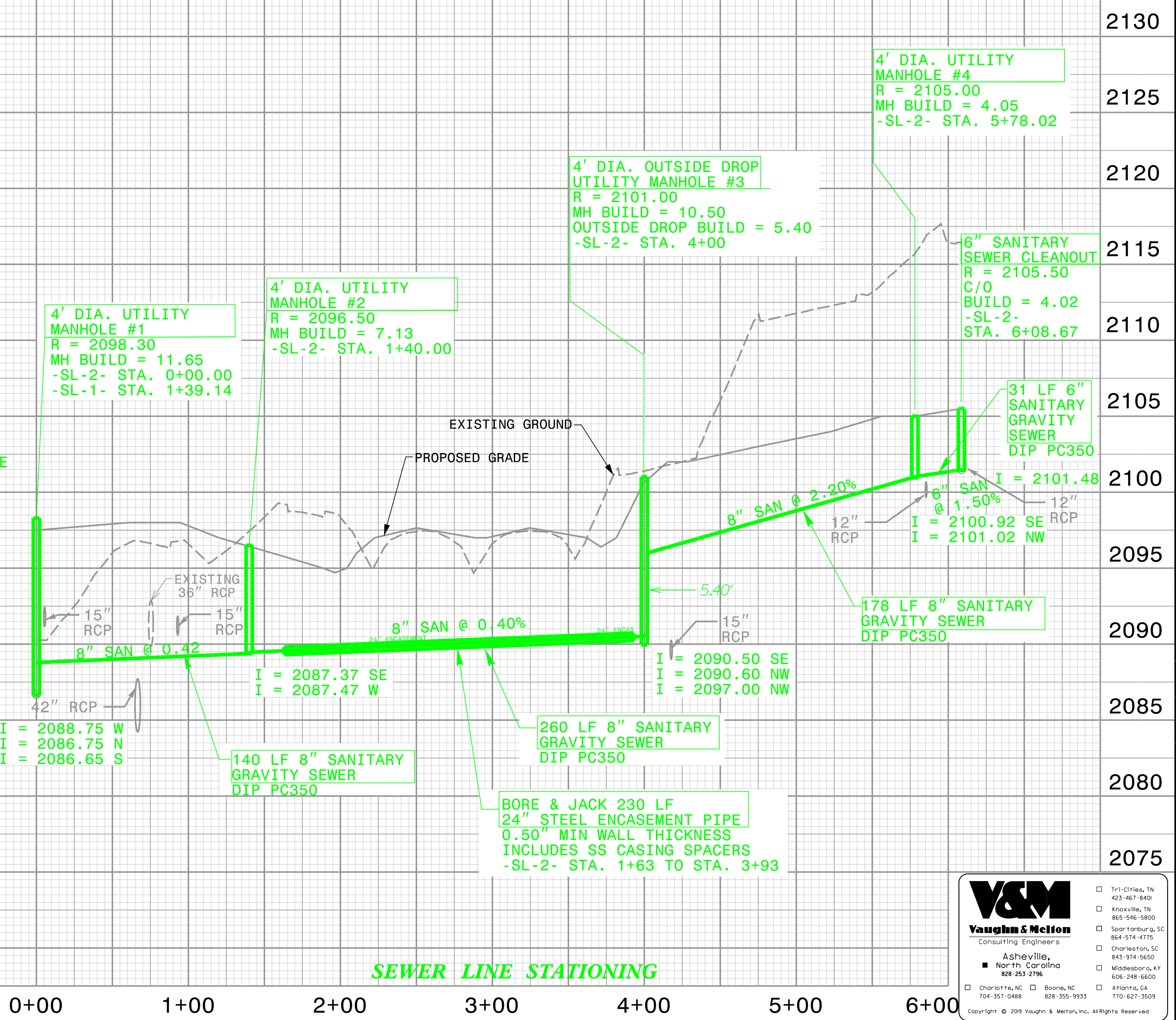
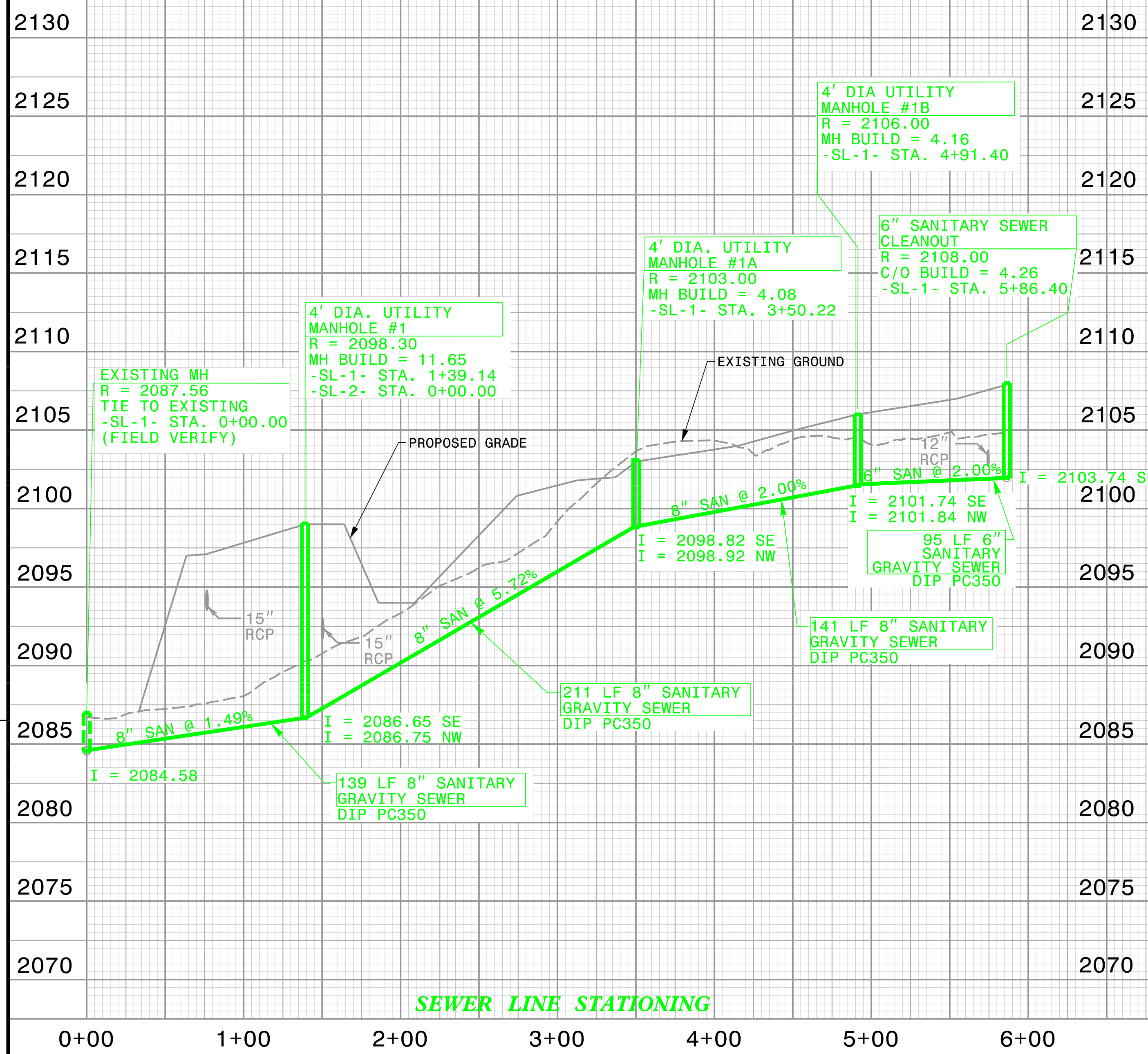
PROJECT REFERENCE NO. I-4400C	SHEET NO. UC-14C
DESIGNED BY: DRF	
DRAWN BY: DRF	
CHECKED BY: DWH	
APPROVED BY: DWH	
REVISED: 8-20-19	
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UTILITY CONSTRUCTION	

CITY OF ASHEVILLE PROJECT NUMBER	WPFY-18-19-080
WATER LINE EASEMENT PLAT	PB NA PG NA
ESTOPPEL CERTIFICATE REQUIRED	YES _____ NO <u>X</u>



SEWER LINE -SL-1- PROFILE

SEWER LINE -SL-2- PROFILE



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Vaughn & Melton
Consulting Engineers
Asheville, North Carolina
828-253-2796

Tri-Cities, TN
 Knoxville, TN
 Spartanburg, SC
 Charleston, SC
 Hendersonville, NC
 Asheville, NC
 Charlotte, NC
 Boone, NC
 Winston-Salem, NC

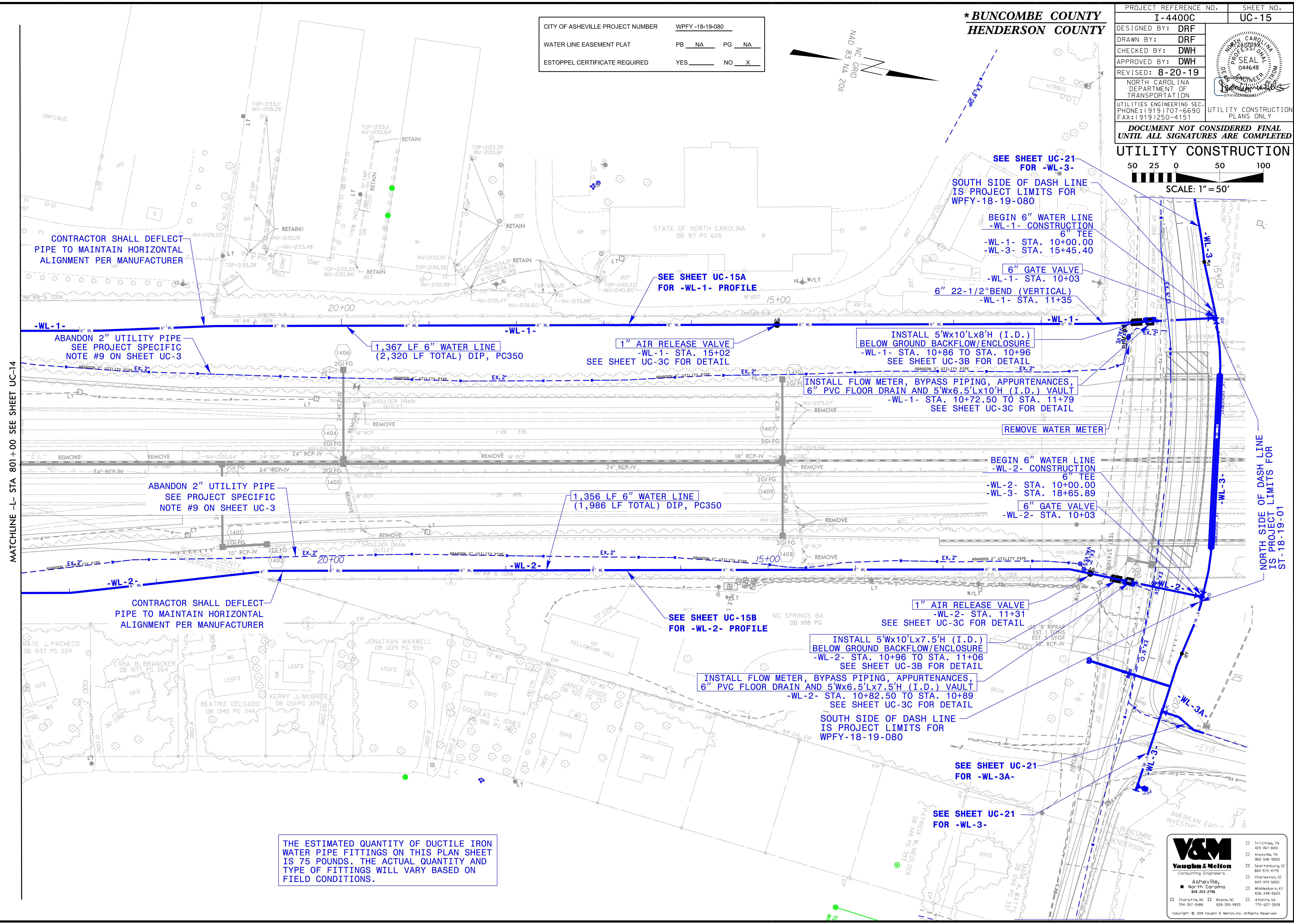
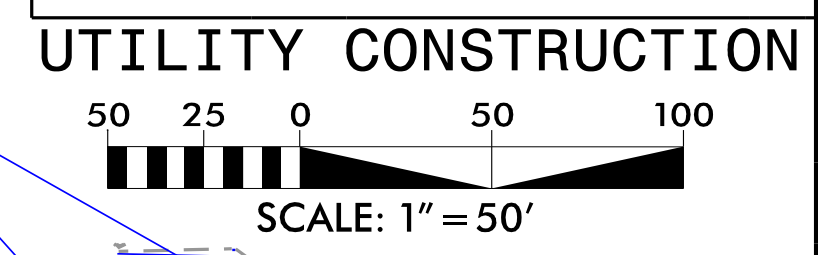
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8/20/19

CITY OF ASHEVILLE PROJECT NUMBER	WPFY-18-19-080
WATER LINE EASEMENT PLAT	PB NA PG NA
ESTOPPEL CERTIFICATE REQUIRED	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>

***BUNCOMBE COUNTY
HENDERSON COUNTY**

PROJECT REFERENCE NO.	SHEET NO.
I-4400C	UC-15
DESIGNED BY: DRF	
DRAWN BY: DRF	
CHECKED BY: DWH	
APPROVED BY: DWH	
REVISED: 8-20-19	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITY CONSTRUCTION PLANS ONLY	
DOCUMENT NOT CONSIDERED FINAL UNTIL ALL SIGNATURES ARE COMPLETED	



CONTRACTOR SHALL DEFLECT PIPE TO MAINTAIN HORIZONTAL ALIGNMENT PER MANUFACTURER

ABANDON 2" UTILITY PIPE SEE PROJECT SPECIFIC NOTE #9 ON SHEET UC-3

ABANDON 2" UTILITY PIPE SEE PROJECT SPECIFIC NOTE #9 ON SHEET UC-3

CONTRACTOR SHALL DEFLECT PIPE TO MAINTAIN HORIZONTAL ALIGNMENT PER MANUFACTURER

THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 75 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

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MATCHLINE -L- STA 801+00 SEE SHEET UC-14

NORTH SIDE OF DASH LINE IS PROJECT LIMITS FOR ST-18-19-01

V&M
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Consulting Engineers
Asheville, North Carolina
828-253-2796

<input type="checkbox"/> Tri-Cities, TN 423-467-8401	<input type="checkbox"/> Knoxville, TN 865-546-5900
<input type="checkbox"/> Spartanburg, SC 864-574-4775	<input type="checkbox"/> Charleston, SC 843-974-5650
<input type="checkbox"/> Charlotte, NC 704-357-0488	<input type="checkbox"/> Midlandsboro, KY 606-248-6600
<input type="checkbox"/> Atlanta, GA 404-357-0488	<input type="checkbox"/> Atlanta, GA 404-357-0488

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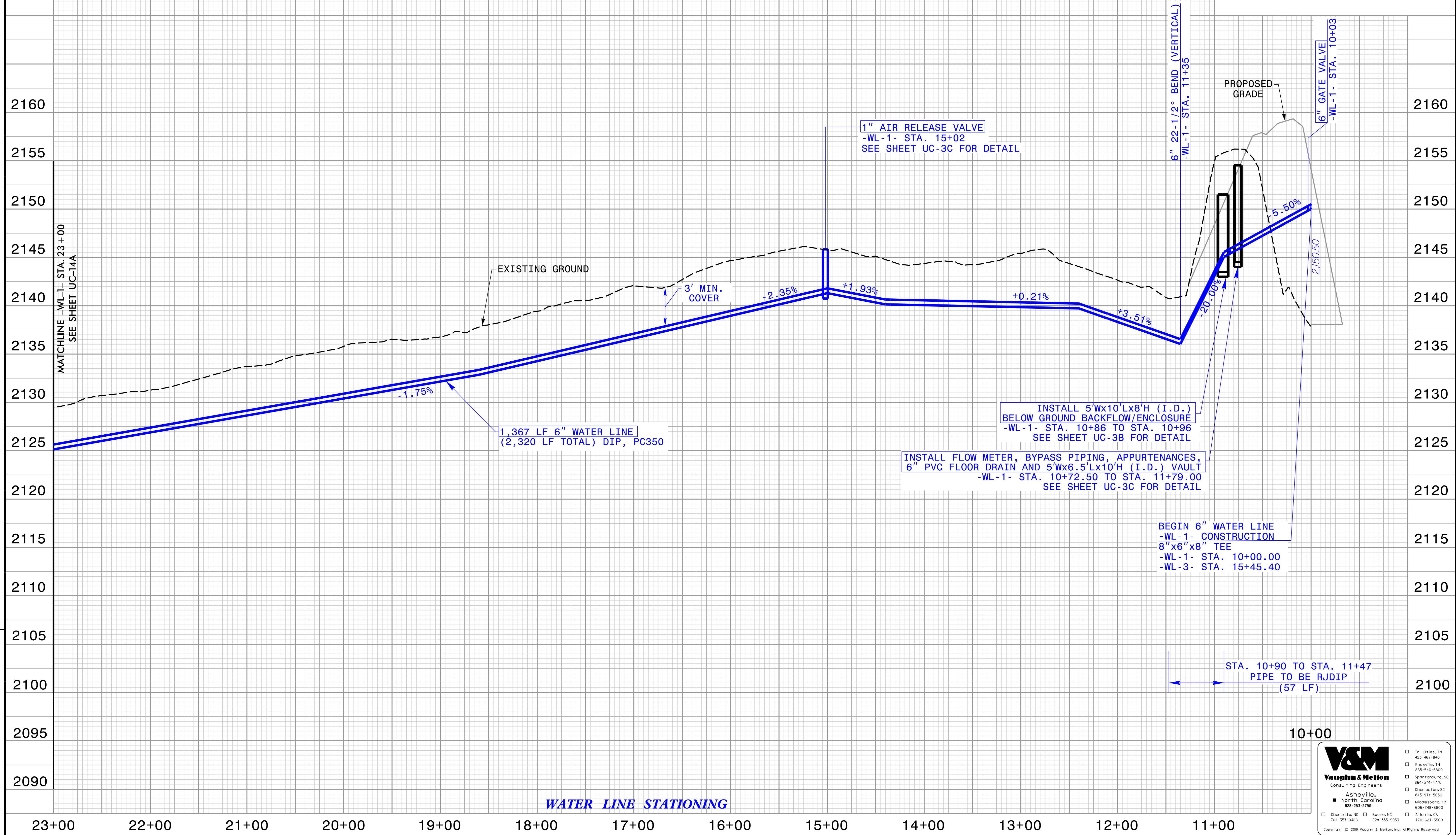
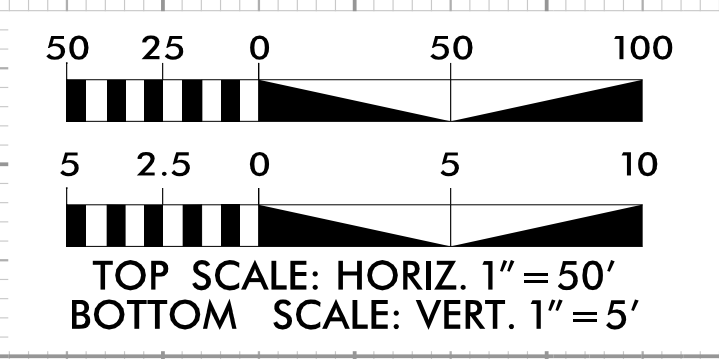
8/20/19

WATER LINE -WL-1- PROFILE

*** BUNCOMBE COUNTY
HENDERSON COUNTY**

PROJECT REFERENCE NO.	SHEET NO.
I-4400C	UC-15A
DESIGNED BY: DRF	
DRAWN BY: DRF	
CHECKED BY: DWH	
APPROVED BY: DWH	
REVISED: 8-20-19	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
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CITY OF ASHEVILLE PROJECT NUMBER	WPFY-18-19-080
WATER LINE EASEMENT PLAT	PB <u>NA</u> PG <u>NA</u>
ESTOPPEL CERTIFICATE REQUIRED	YES <u> </u> NO <u>X</u>



WATER LINE STATIONING

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828-253-2796

- Tri-Cities, TN 423-467-8401
- Knoxville, TN 865-946-5800
- Spartanburg, SC 864-574-4775
- Charleston, SC 843-974-5650
- Wadesboro, NC 704-627-3509
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- Athens, GA 770-627-3509

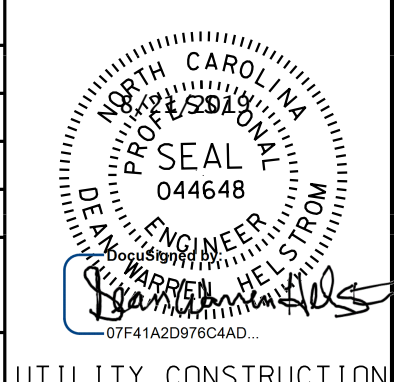
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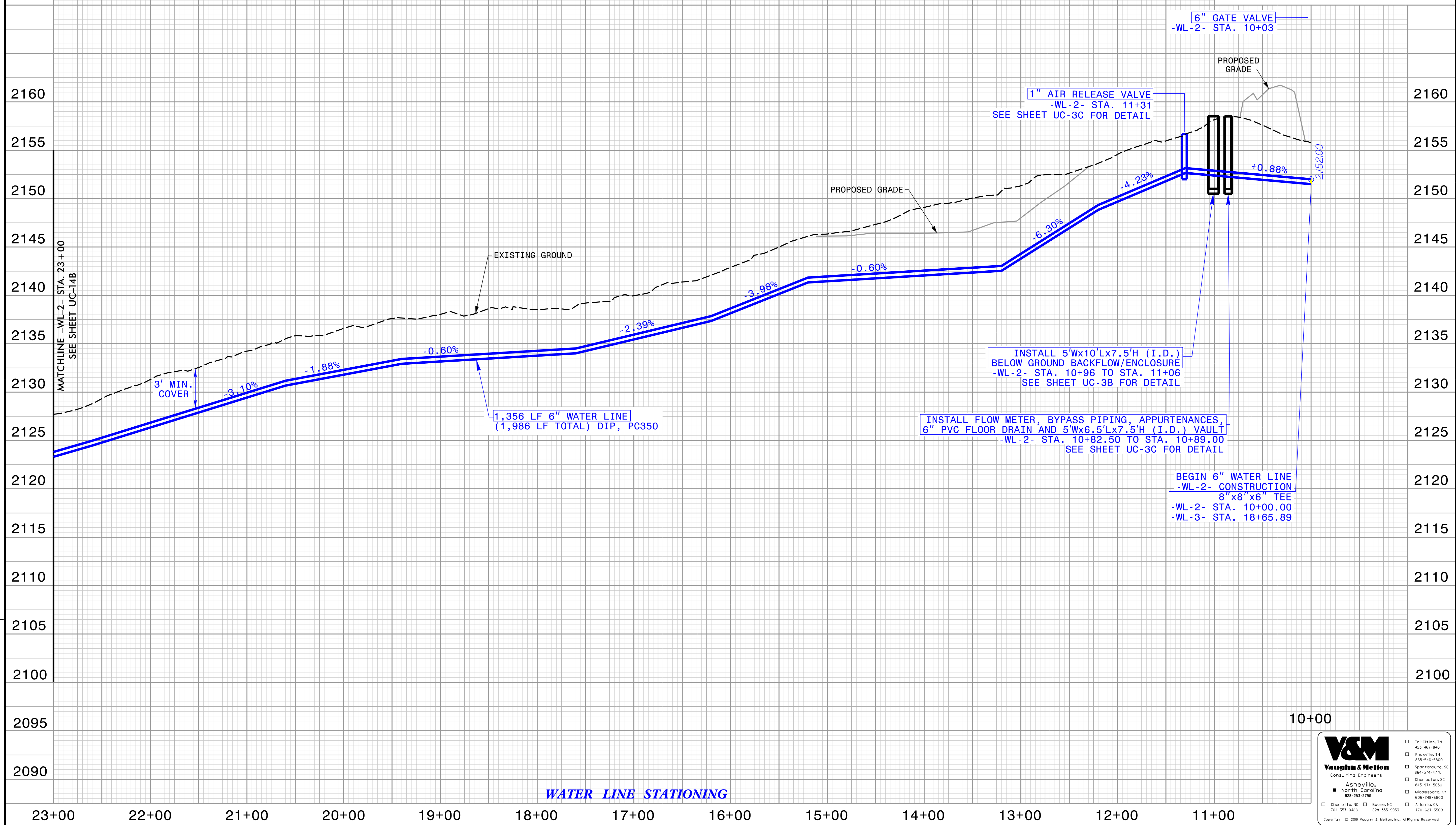
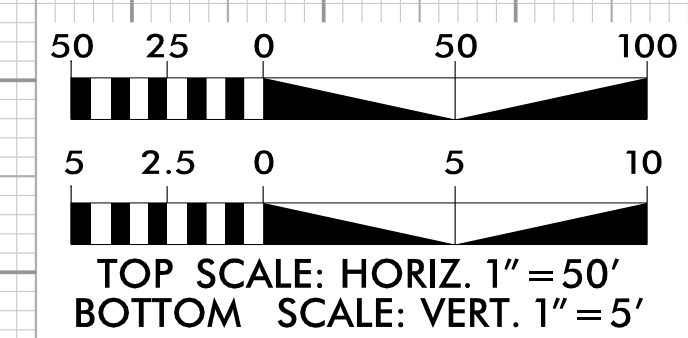
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WATER LINE -WL-2- PROFILE

***BUNCOMBE COUNTY
HENDERSON COUNTY**

PROJECT REFERENCE NO. I-4400C	SHEET NO. UC-15B
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CITY OF ASHEVILLE PROJECT NUMBER	WPFY-18-19-080	
WATER LINE EASEMENT PLAT	PB <u>NA</u>	PG <u>NA</u>
ESTOPPEL CERTIFICATE REQUIRED	YES <u> </u>	NO <u>X</u>



WATER LINE STATIONING

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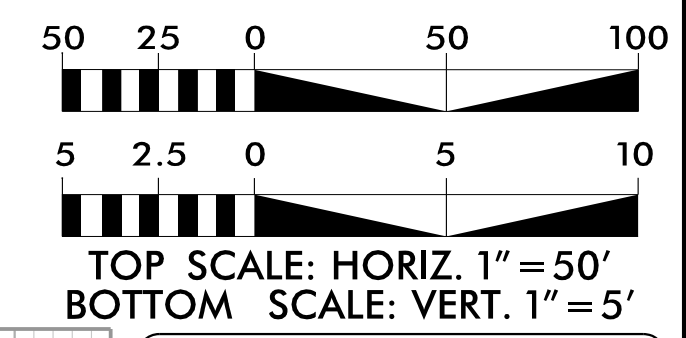
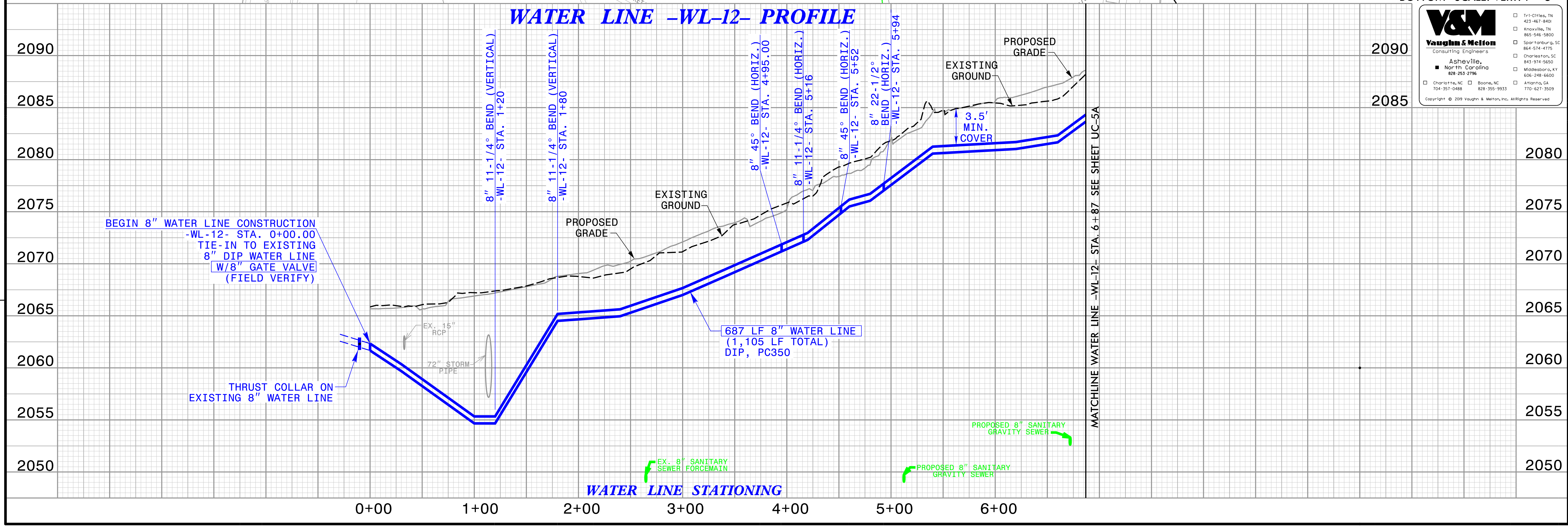
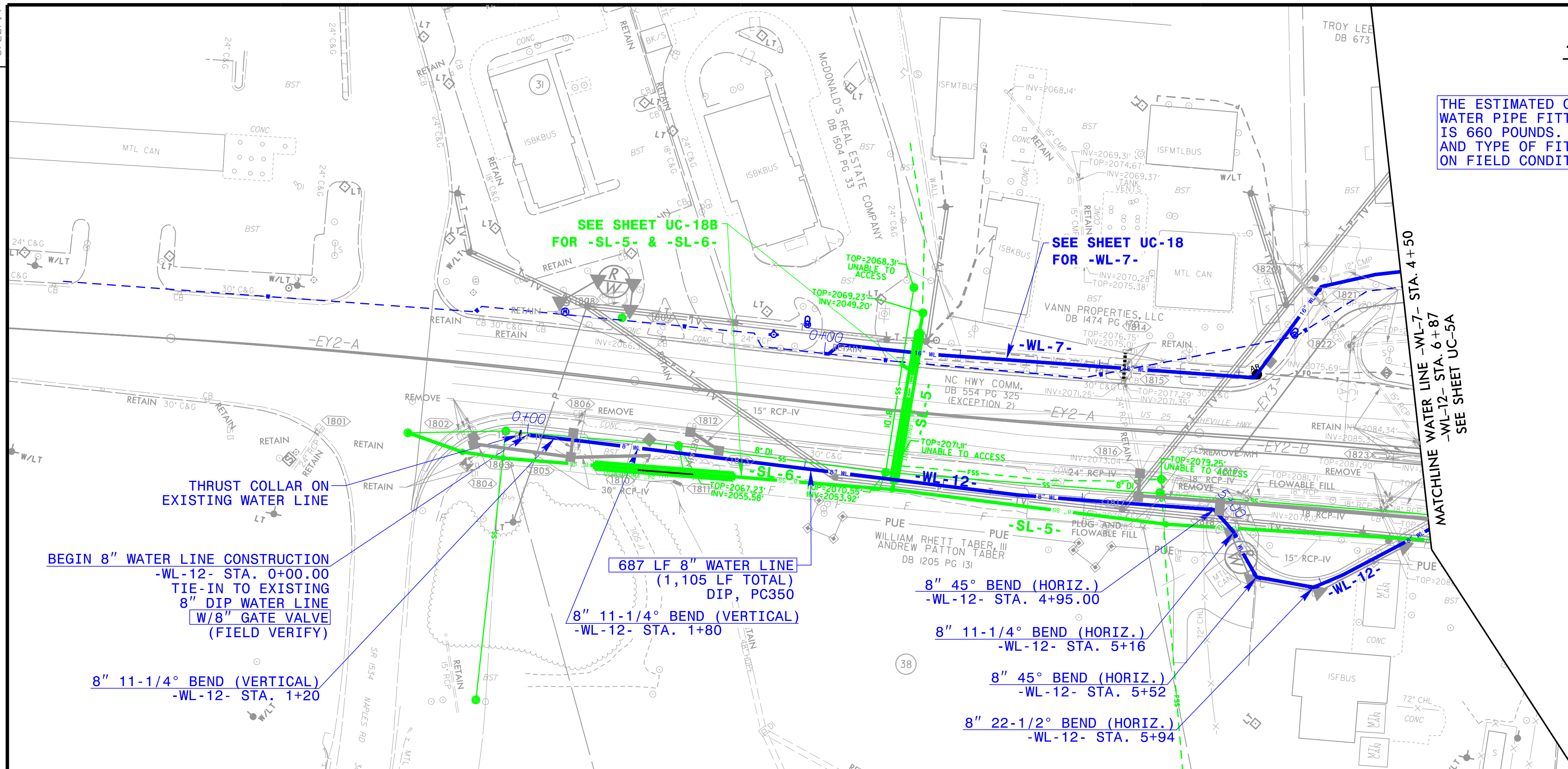
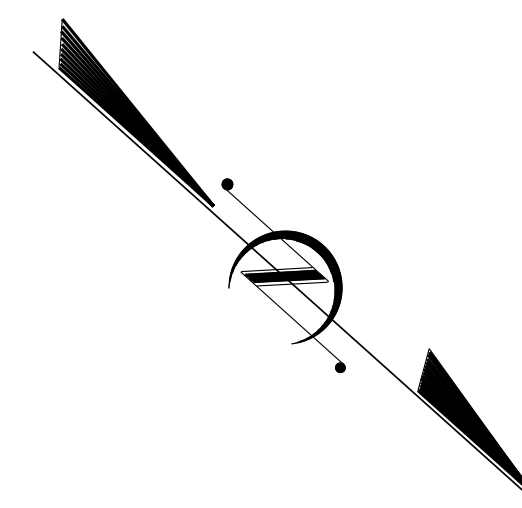
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BUNCOMBE COUNTY *HENDERSON COUNTY

PROJECT REFERENCE NO. I-4400C	SHEET NO. UC-18A
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THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 660 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.



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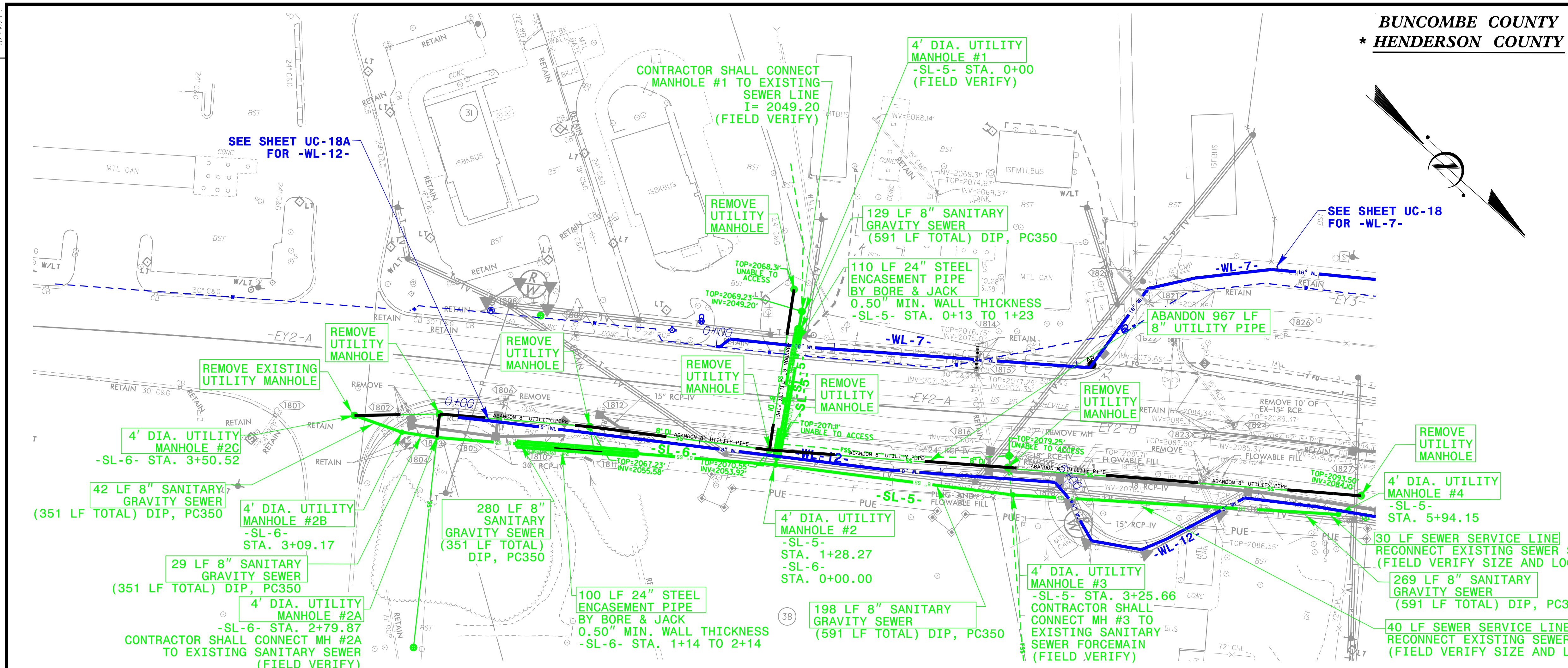
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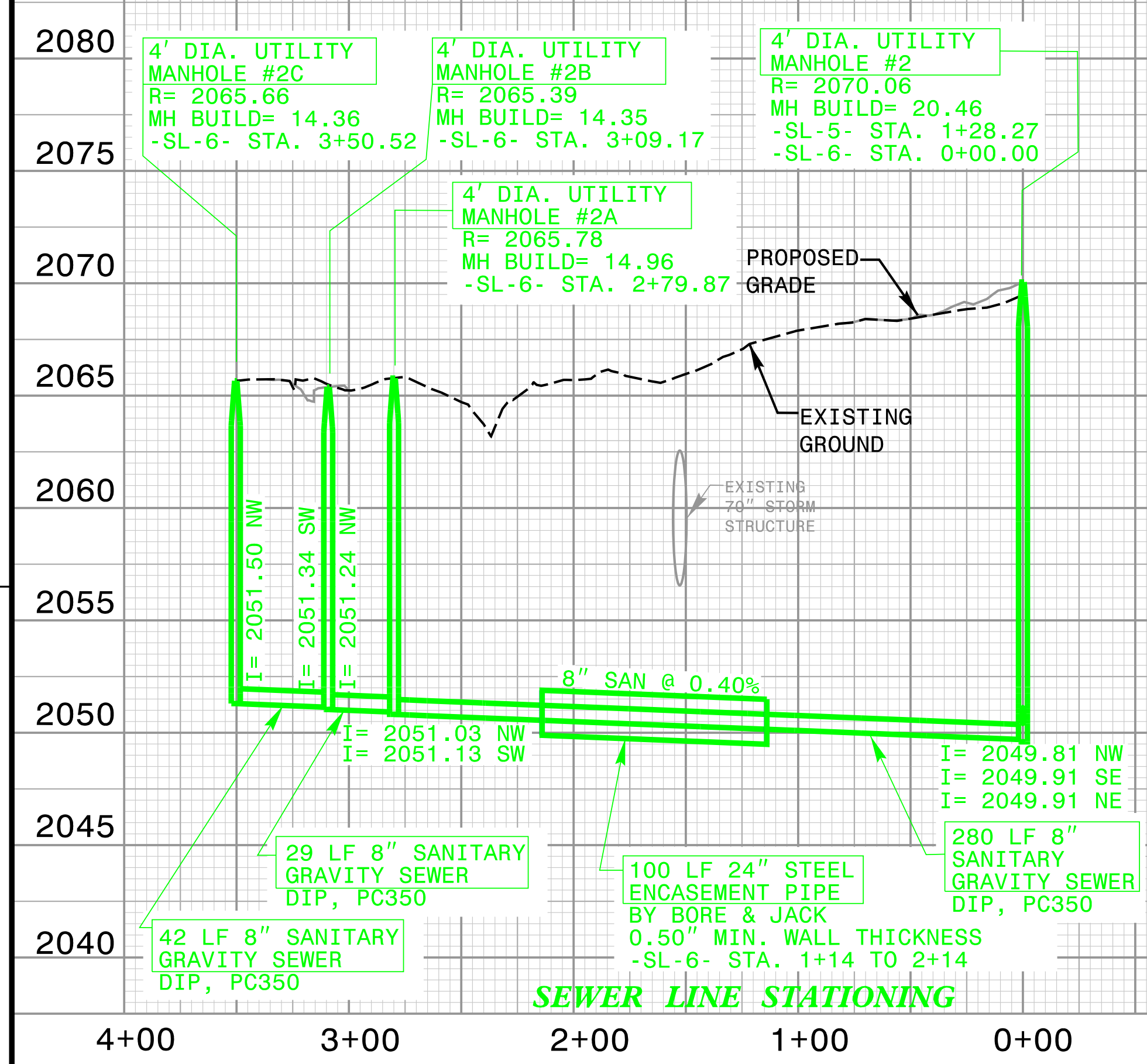
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BUNCOMBE COUNTY * HENDERSON COUNTY

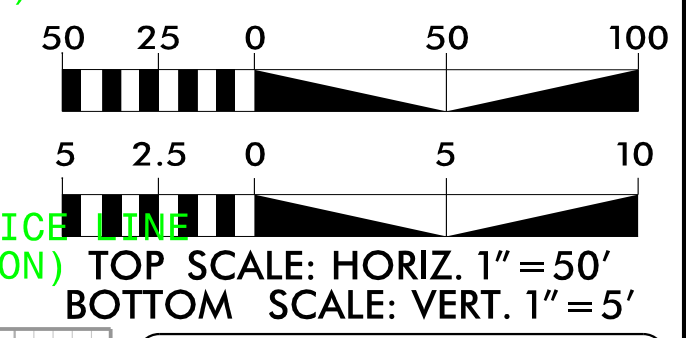
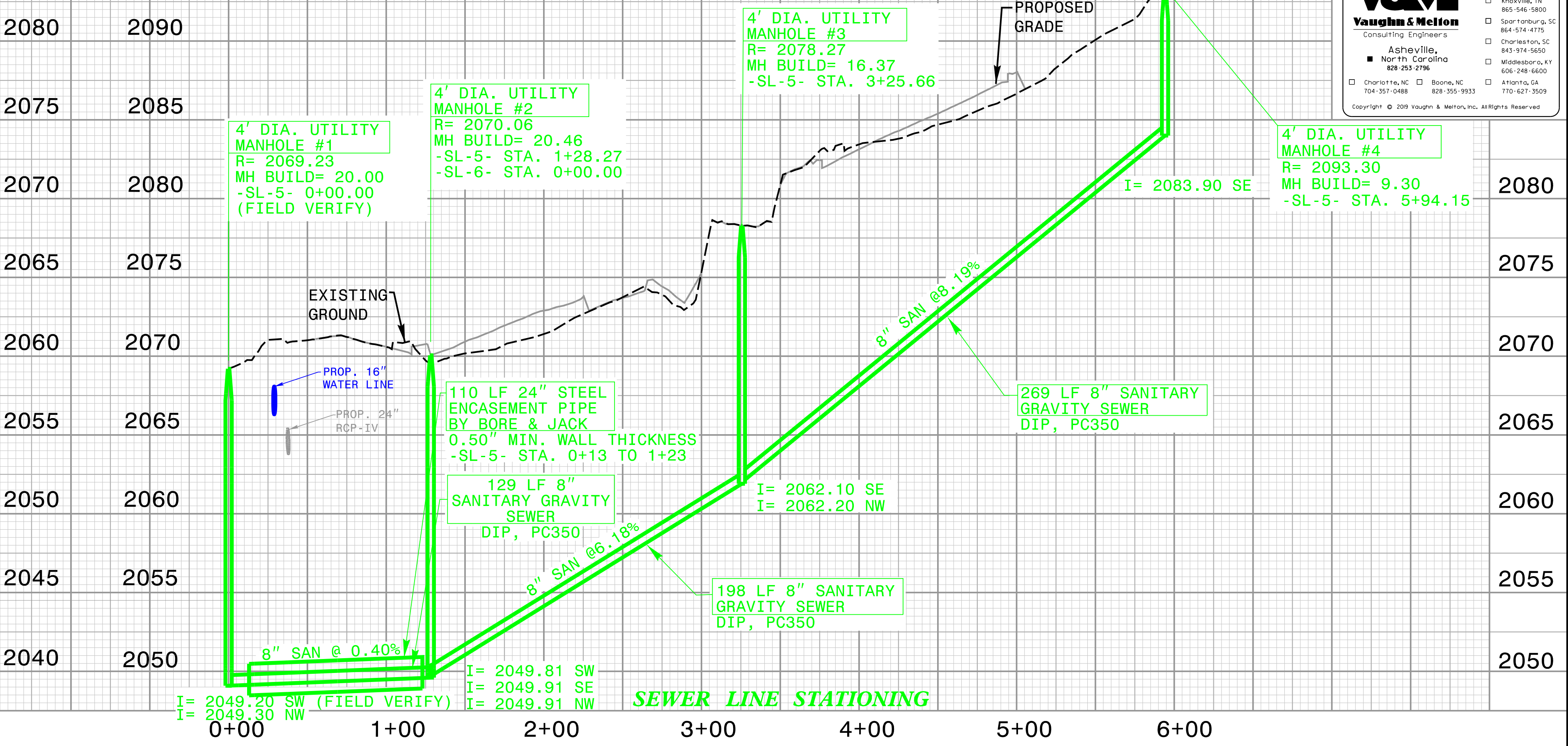
PROJECT REFERENCE NO.	I-4400C	SHEET NO.	UC-18B
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APPROVED BY:	DWH		
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SEWER LINE -SL-6- PROFILE



SEWER LINE -SL-5- PROFILE

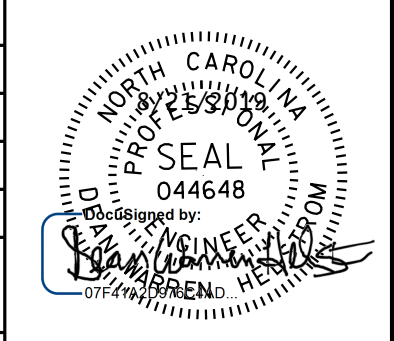


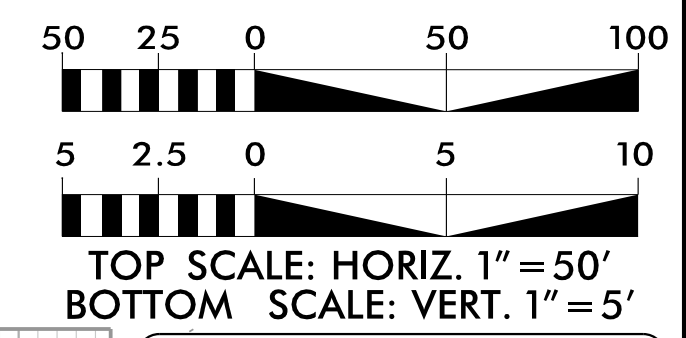
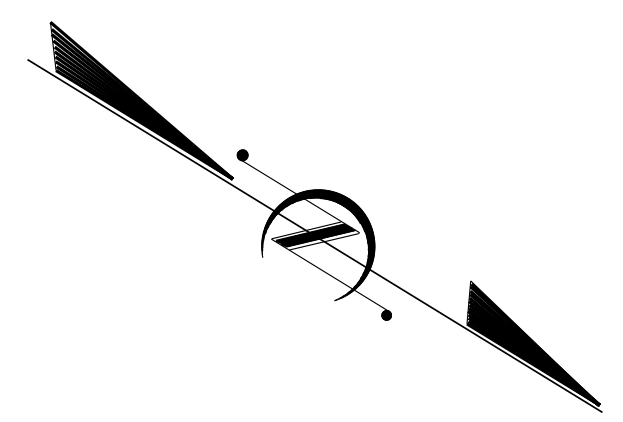
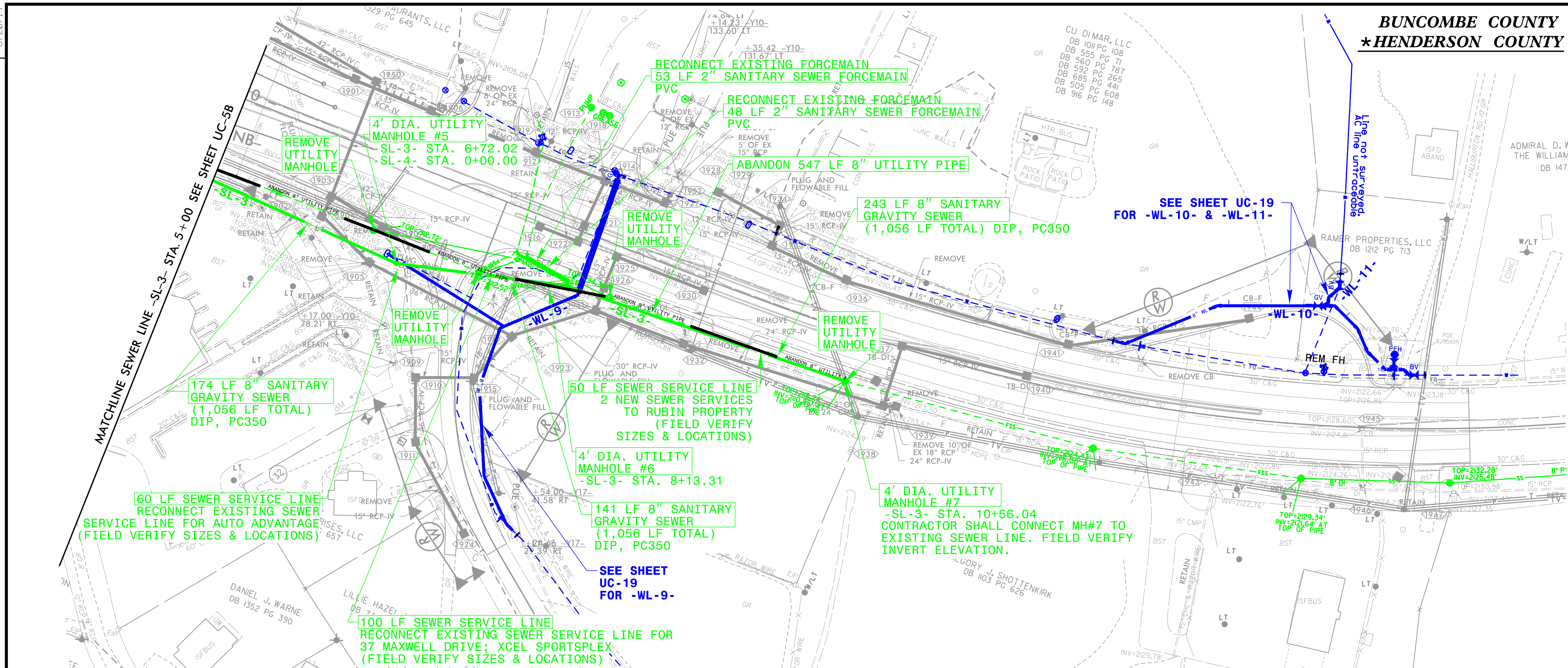
SEWER LINE STATIONING

8/20/19

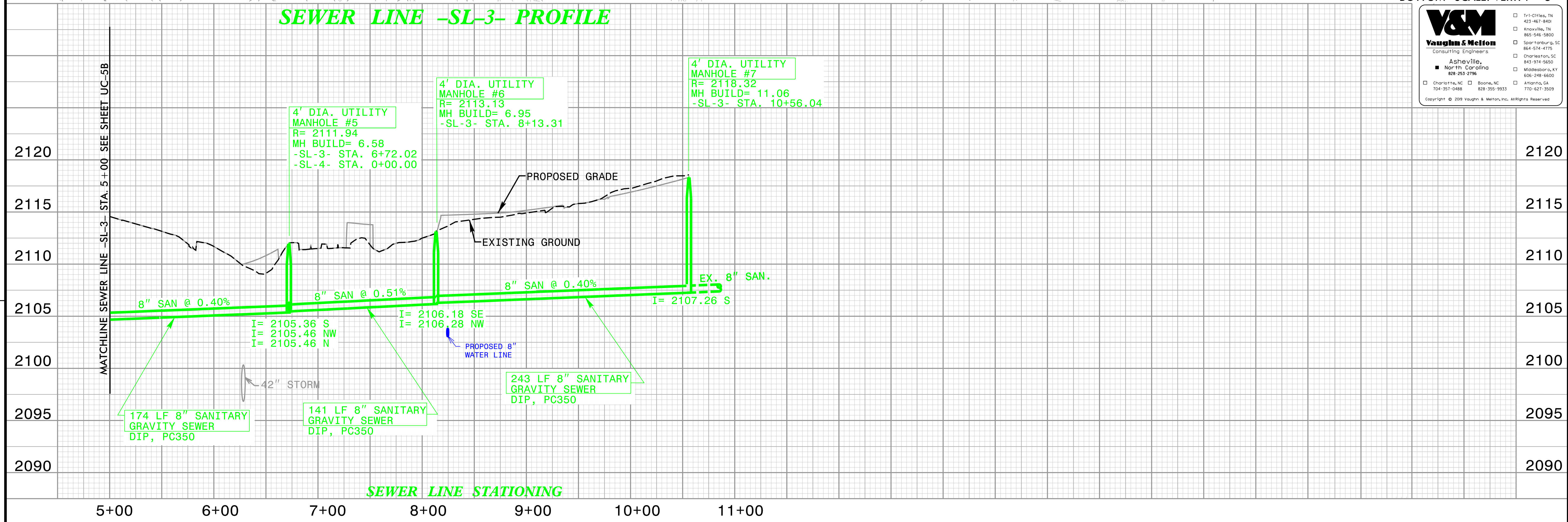
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BUNCOMBE COUNTY *HENDERSON COUNTY

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SEWER LINE -SL-3- PROFILE



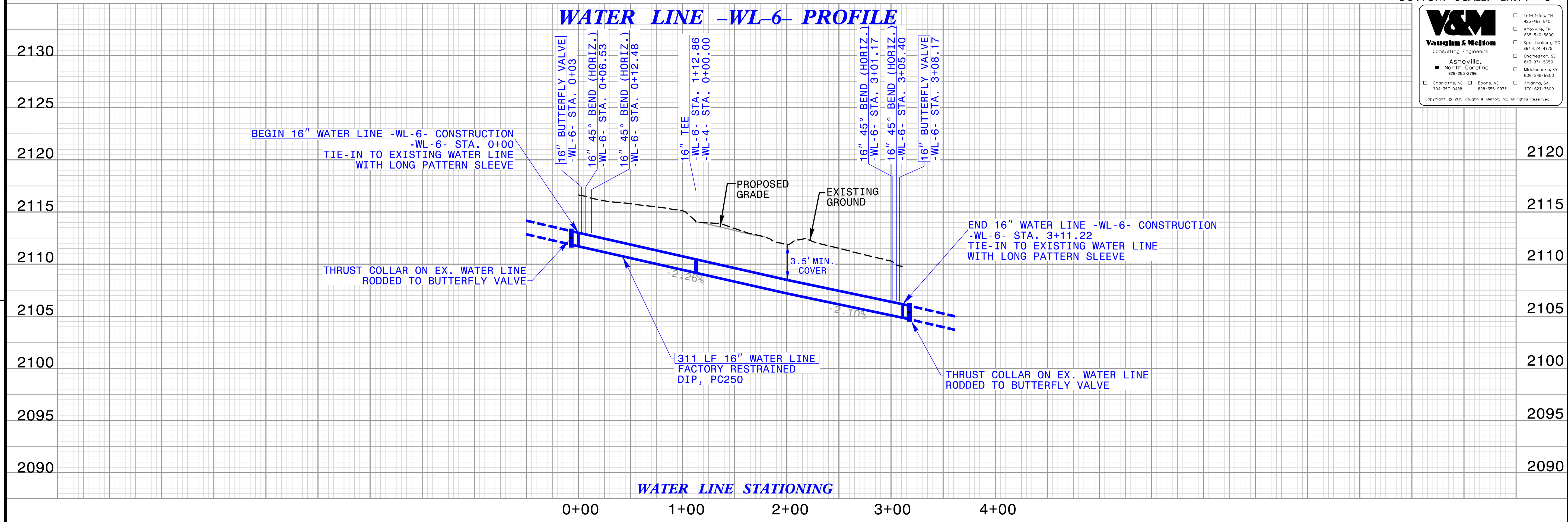
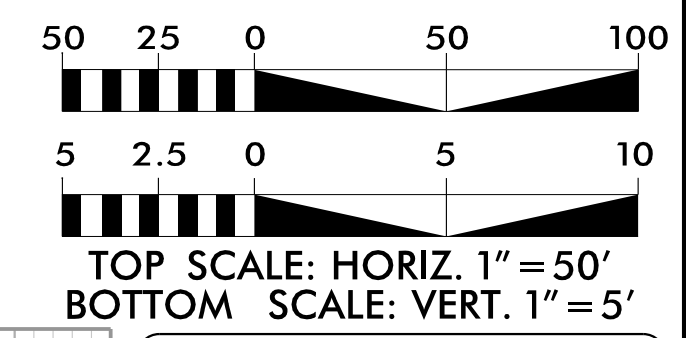
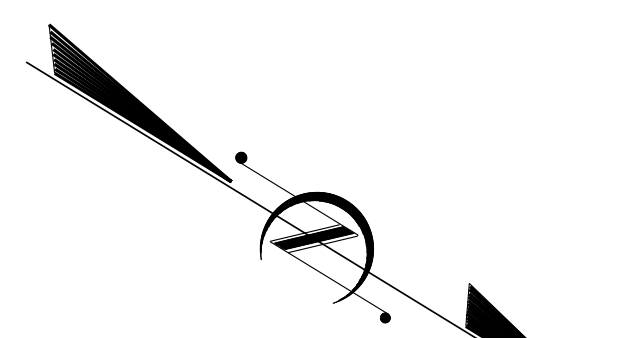
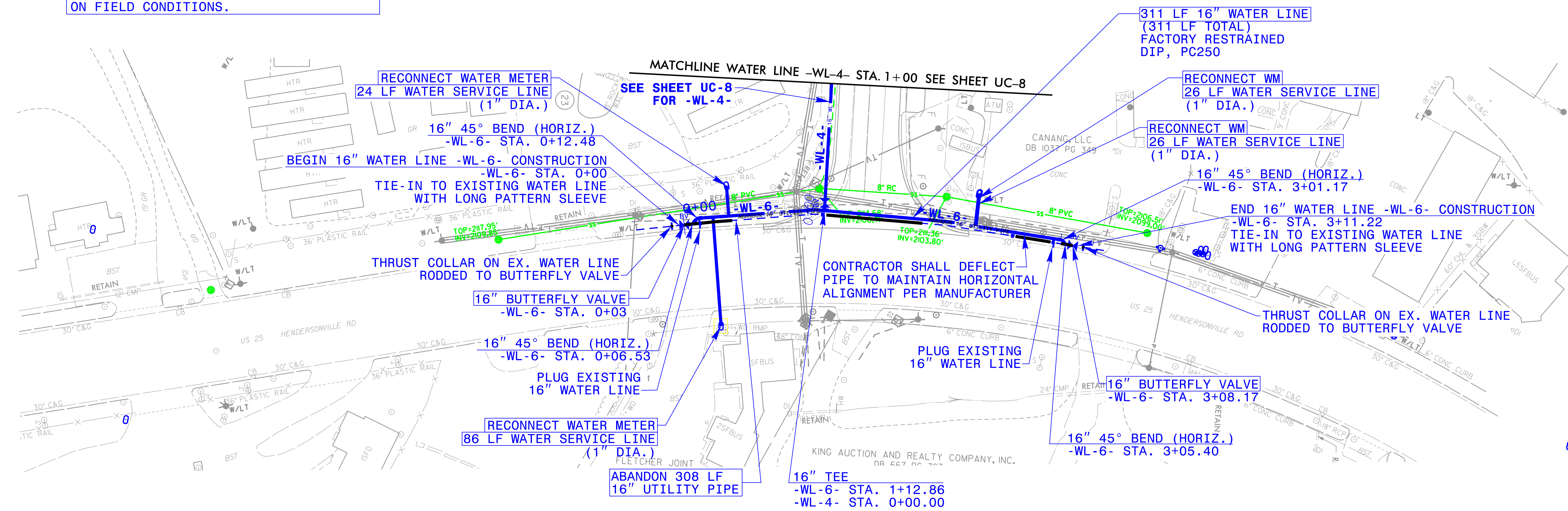
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PROJECT REFERENCE NO.	SHEET NO.
I-4400C	UC-20
DESIGNED BY: SSD	
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UTILITY CONSTRUCTION	

THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 2,770 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.



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8/20/19

CITY OF ASHEVILLE PROJECT NUMBER	ST-18-19-01
WATER LINE EASEMENT PLAT	PB NA PG NA
ESTOPPEL CERTIFICATE REQUIRED	YES NO X

NORTH SIDE OF DASH LINE IS PROJECT LIMITS FOR ST-18-19-01

1" AIR RELEASE VALVE -WL-3- STA. 14+80
SEE SHEET UC-3C FOR DETAIL

6" TEE & 8"x6" MJ REDUCER -WL-3- STA. 10+85.00
BEGIN WATER LINE
-WL-3B- CONSTRUCTION
-WL-3B- STA. 10+00.00

2" BALL VALVE

NEW WATER METER

10 LF WATER SERVICE LINE

482 LF 6" WATER LINE (1,102 LF TOTAL) DIP, PC350

6" 45° BEND (VERT.) -WL-3- STA. 15+94.00

6" 45° BEND (VERT.) -WL-3- STA. 15+75.00

6" TEE -WL-3- STA. 15+45.40
BEGIN 6" WATER LINE
-WL-1- CONSTRUCTION
-WL-1- STA. 10+00.00

SOUTH SIDE OF DASH LINE IS PROJECT LIMITS FOR WPFY-18-19-080

6" GATE VALVE -WL-3- STA. 15+47.40

6" TEE -WL-3- STA. 15+45.40
BEGIN 6" WATER LINE
-WL-1- CONSTRUCTION
-WL-1- STA. 10+00.00

6" TEE -WL-3- STA. 18+65.89
BEGIN 6" WATER LINE
-WL-2- CONSTRUCTION
-WL-2- STA. 10+00.00

6" 45° BEND (VERT.) -WL-3- STA. 18+26.00

6" 45° BEND (VERT.) -WL-3- STA. 18+48.00

6" GATE VALVE -WL-3- STA. 18+63.89

6" TEE -WL-3- STA. 18+63.89
BEGIN 6" WATER LINE
-WL-2- CONSTRUCTION
-WL-2- STA. 10+00.00

1" AIR RELEASE VALVE -WL-3- STA. 19+35
SEE SHEET UC-3C FOR DETAIL
DEADMAN ON EX. 6" WL
RODDED TO 22 1/2" BEND

150 LF 6" WATER LINE (1,102 LF TOTAL) DIP, PC350

6" 22 1/2° BEND (HORIZ.) -WL-3A- STA. 10+42.50

50 LF 6" WATER LINE (50 LF TOTAL) DIP, PC350
PLUG EX. 6" WATER LINE
6" 22 1/2° BEND (HORIZ.) -WL-3A- STA. 10+20.00

6" GATE VALVE -WL-3A- STA. 10+02

END 6" WATER LINE -WL-3- CONSTRUCTION
-WL-3- STA. 21+00.00
INSTALL DEADMAN/END OF LINE PLUG (FOR FUTURE CONNECTION)
SEE SHEET UC-3C FOR DETAIL

NORTH SIDE OF DASH LINE IS PROJECT LIMITS FOR ST-18-19-01

6" GATE VALVE -WL-3- STA. 18+63.89

6" TEE -WL-3- STA. 18+63.89
BEGIN 6" WATER LINE
-WL-2- CONSTRUCTION
-WL-2- STA. 10+00.00

1" AIR RELEASE VALVE -WL-3- STA. 19+35
SEE SHEET UC-3C FOR DETAIL
DEADMAN ON EX. 6" WL
RODDED TO 22 1/2" BEND

150 LF 6" WATER LINE (1,102 LF TOTAL) DIP, PC350

6" 22 1/2° BEND (HORIZ.) -WL-3A- STA. 10+42.50

50 LF 6" WATER LINE (50 LF TOTAL) DIP, PC350
PLUG EX. 6" WATER LINE
6" 22 1/2° BEND (HORIZ.) -WL-3A- STA. 10+20.00

6" GATE VALVE -WL-3A- STA. 10+02

END 6" WATER LINE -WL-3- CONSTRUCTION
-WL-3- STA. 21+00.00
INSTALL DEADMAN/END OF LINE PLUG (FOR FUTURE CONNECTION)
SEE SHEET UC-3C FOR DETAIL

PROJECT REFERENCE NO. I-4400C SHEET NO. UC-21

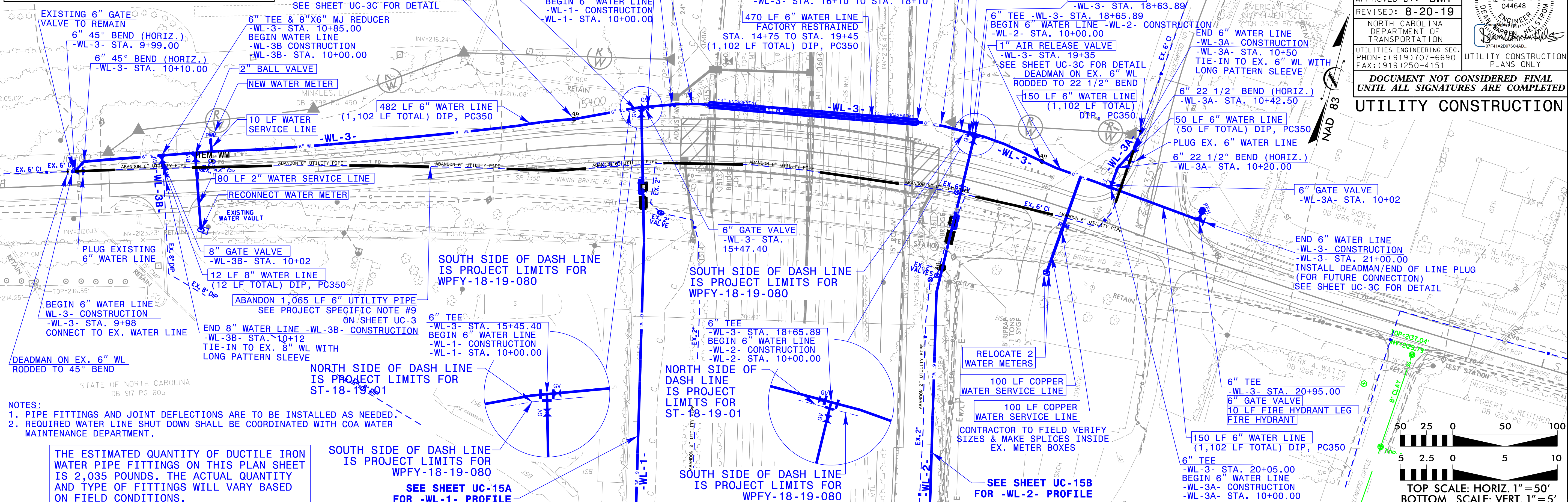
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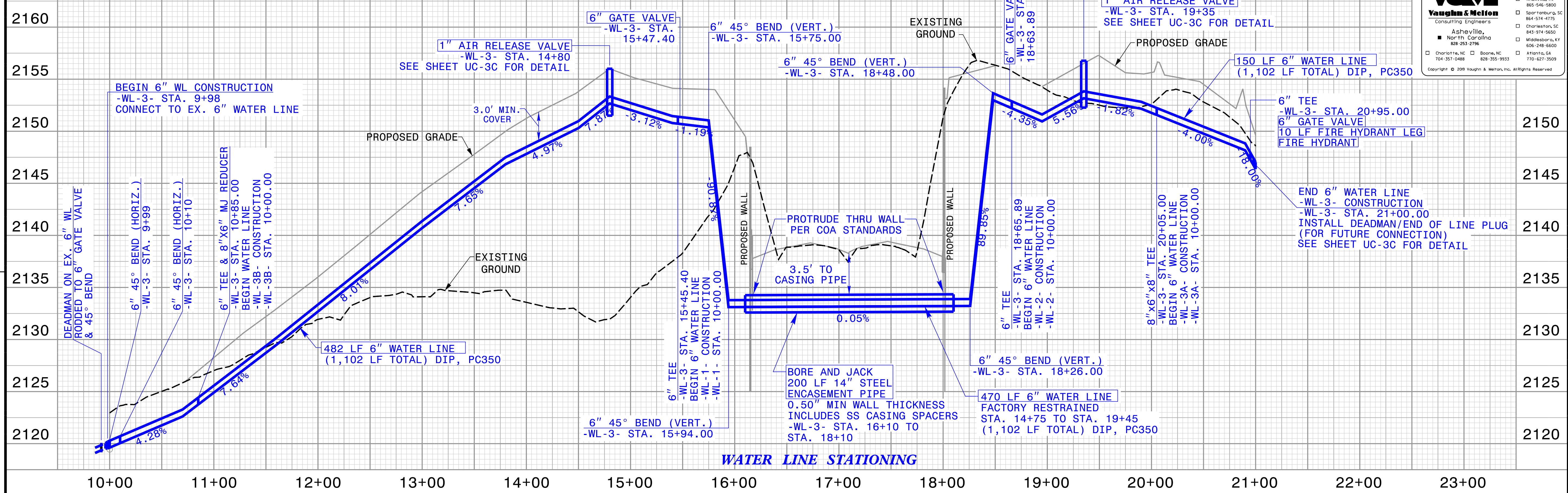
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UTILITY CONSTRUCTION



WATER LINE -WL-3- PROFILE



WATER LINE STATIONING

TOP SCALE: HORIZ. 1"=50'
BOTTOM SCALE: VERT. 1"=5'

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