

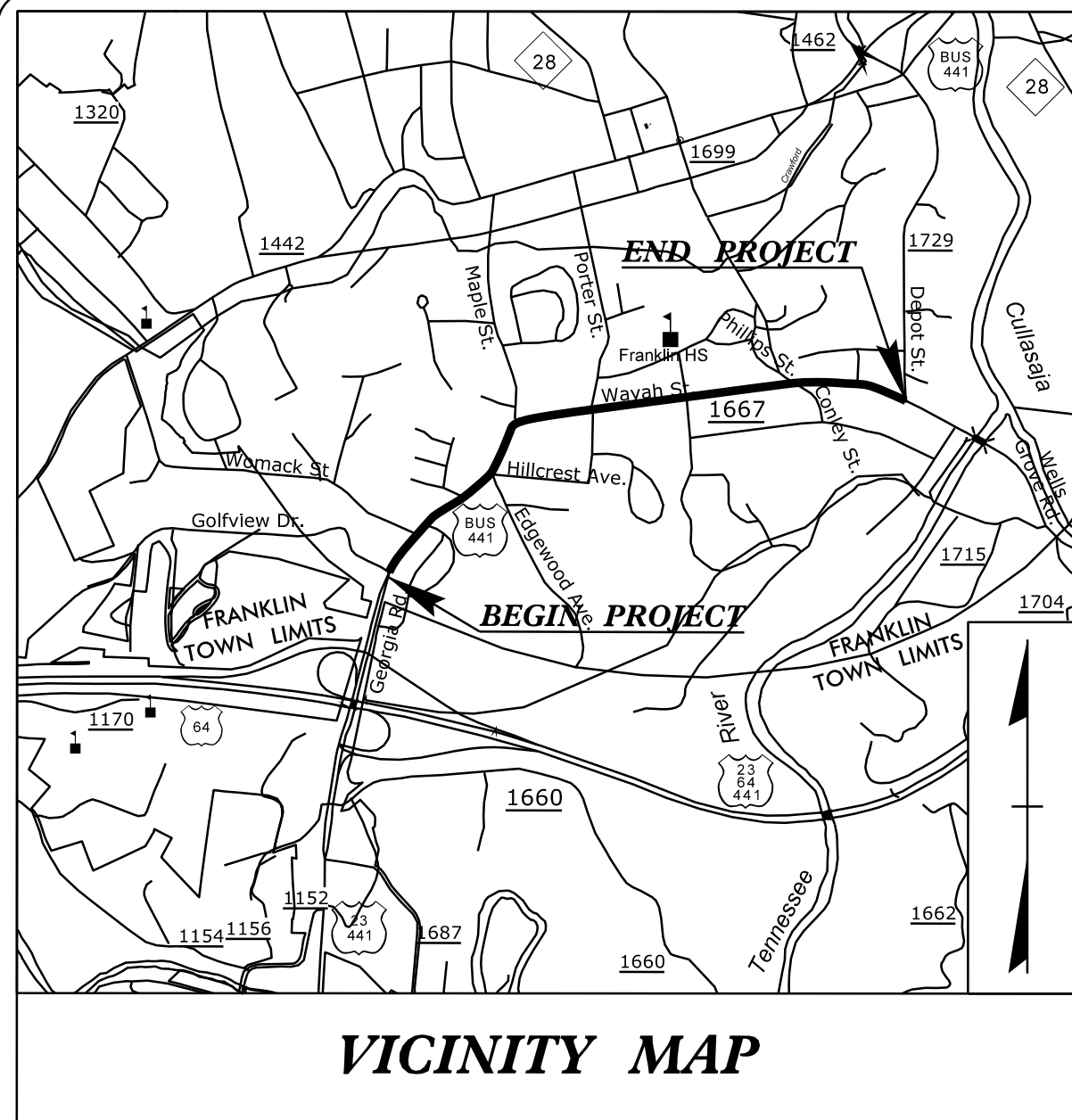
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T.I.P. NO.	SHEET NO.
U-5604	UC-1

TIP PROJECT: U-5604



STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

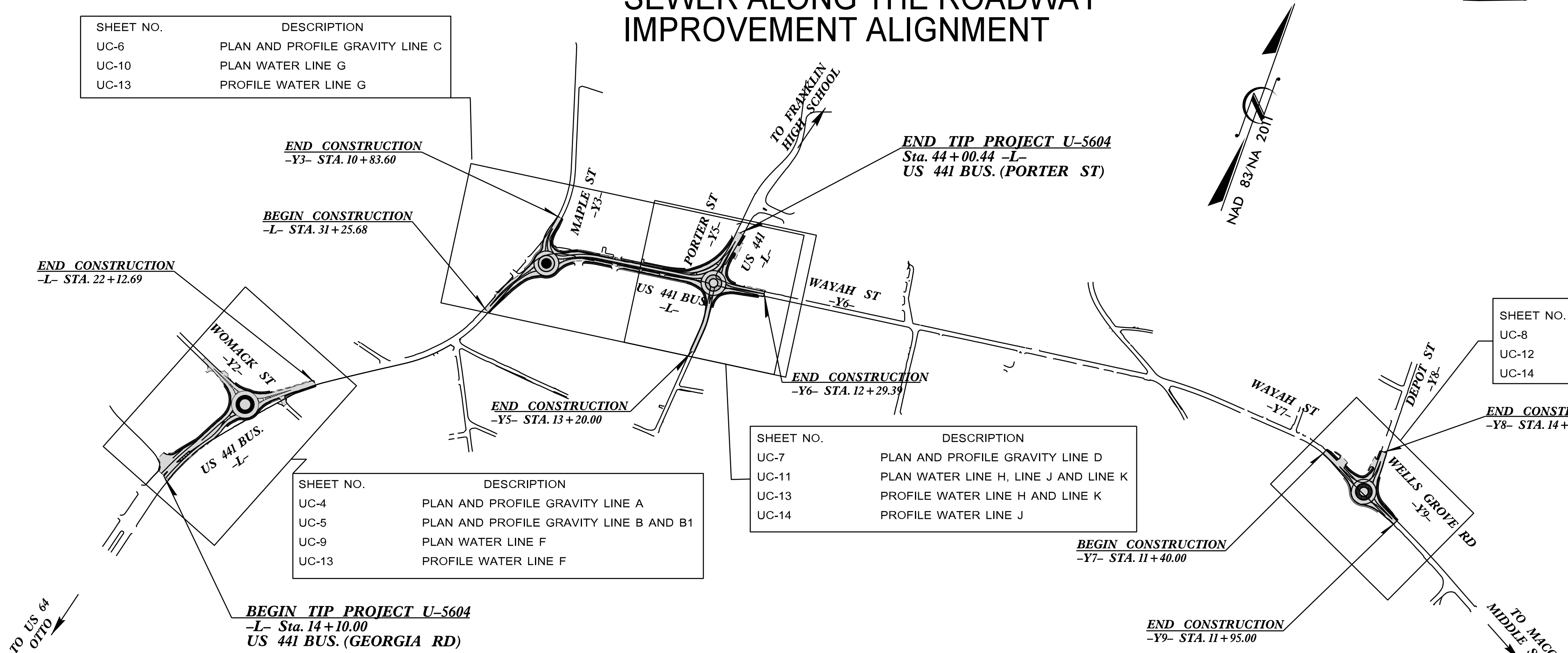
UTILITY CONSTRUCTION PLANS MACON COUNTY

LOCATION: US 441 BUSINESS INTERSECTION IMPROVEMENTS AT WOMACK STREET, MAPLE STREET, PORTER STREET, AND DEPOT STREET

TYPE OF WORK: UTILITY RELOCATES FOR WATER AND SEWER ALONG THE ROADWAY IMPROVEMENT ALIGNMENT



SHEET NO.	DESCRIPTION
UC-6	PLAN AND PROFILE GRAVITY LINE C
UC-10	PLAN WATER LINE G
UC-13	PROFILE WATER LINE G



SHEET NO.	DESCRIPTION
UC-4	PLAN AND PROFILE GRAVITY LINE A
UC-5	PLAN AND PROFILE GRAVITY LINE B AND B1
UC-9	PLAN WATER LINE F
UC-13	PROFILE WATER LINE F

SHEET NO.	DESCRIPTION
UC-7	PLAN AND PROFILE GRAVITY LINE D
UC-11	PLAN WATER LINE H, LINE J AND LINE K
UC-13	PROFILE WATER LINE H AND LINE K
UC-14	PROFILE WATER LINE J

SHEET NO.	DESCRIPTION
UC-8	PLAN AND PROFILE GRAVITY LINE E
UC-12	PLAN WATER LINE L AND LINE M
UC-14	PROFILE WATER LINE L AND LINE M

A PORTION OF THIS PROJECT IS WITHIN THE MUNICIPAL BOUNDARIES OF FRANKLIN.
CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD II.
THIS IS A NO CONTROL OF ACCESS PROJECT

DOCUMENT NOT CONSIDERED FINAL
UNTIL ALL SIGNATURES ARE COMPLETED

GRAPHIC SCALES

VARIES SEE SCLAES
EACH SHEET

INDEX OF SHEETS

SHEET NO.:	DESCRIPTION:
UC-1	TITLE SHEET
UC-1A THRU 1B	ALIGNMENTS
UC-2	UTILITY SYMBOLOGY
UC-3	NOTES
UC-3A THRU 3E	DETAILS
UC-4 THRU UC-8	SEWER PLAN AND PROFILE
UC-9 THRU UC-14	WATER PLAN AND PROFILE

WATER AND SEWER OWNERS ON PROJECT

TOWN OF FRANKLIN
95 E. MAIN STREET
FRANKLIN, NC 28734

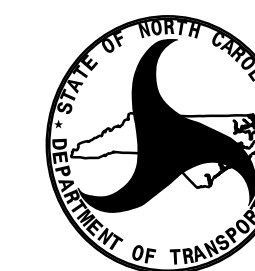
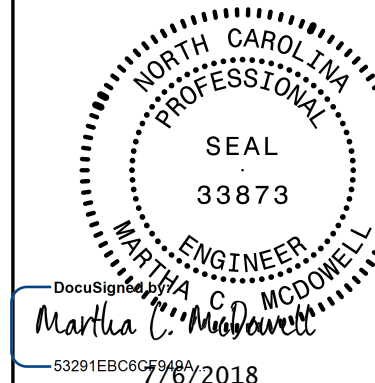
PREPARED IN THE OFFICE OF



STANTEC CONSULTING SERVICES INC.
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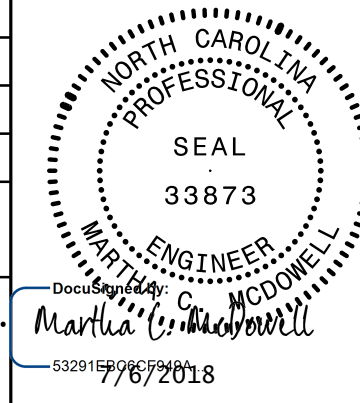
STEVE SMALLWOOD	CONSULTANT CONTACT #1
CAROL MCDOWELL	CONSULTANT CONTACT #2
WESLEY HARROD	CONSULTANT CONTACT #3

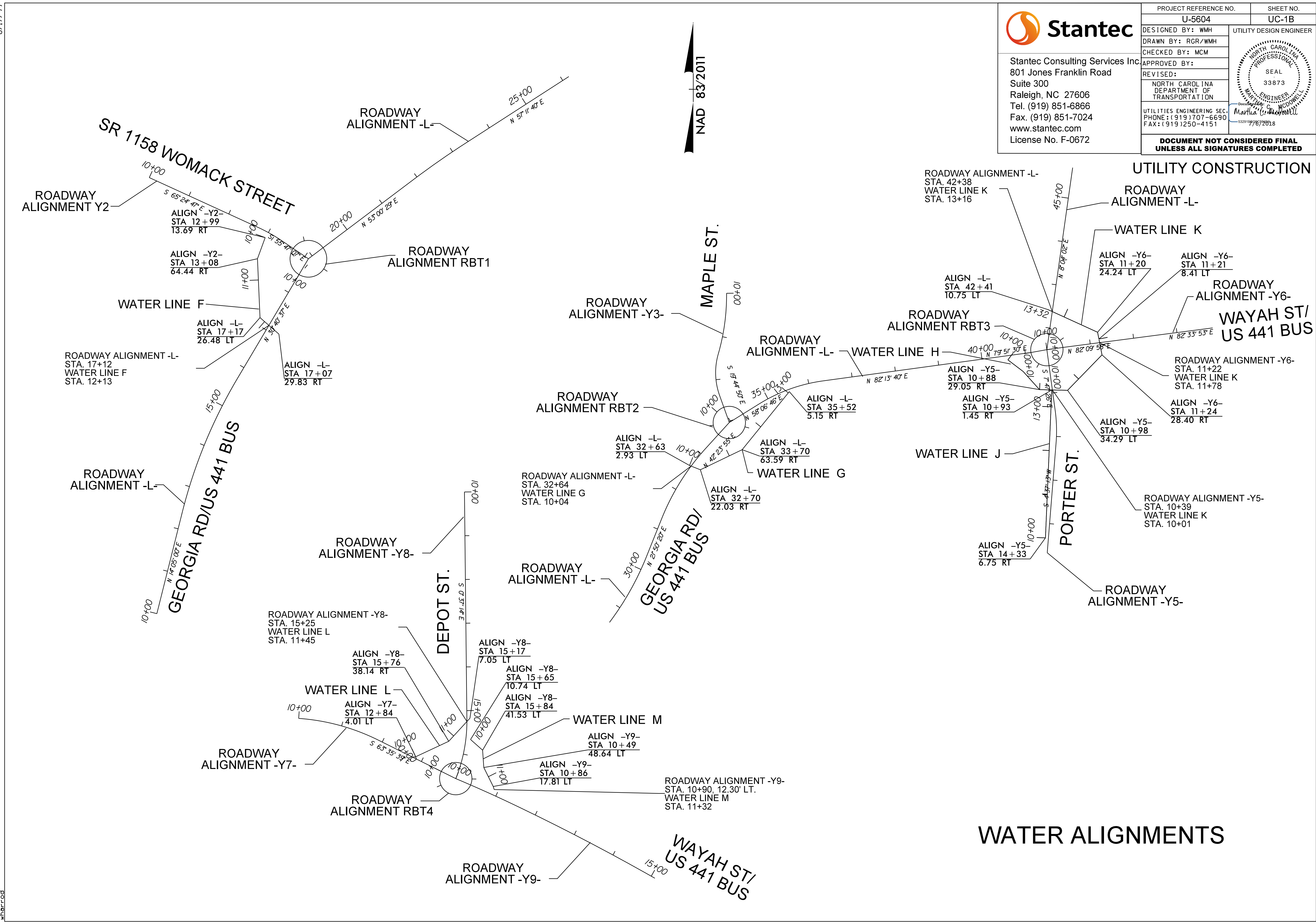
SEAL



**DIVISION OF HIGHWAYS
UTILITIES UNIT**
1555 MAIL SERVICES CENTER
RALEIGH, NC 27699-1555
PHONE (919) 707-6690
FAX (919) 250-4151

MICHAEL BRIGHT	UTILITIES REGIONAL ENGINEER
BOB GOLDING	UTILITIES ENGINEER
AMY G. DUPREE	UTILITIES AREA COORDINATOR
STEVE C. TREXLER	UTILITIES COORDINATOR

	PROJECT REFERENCE NO.	SHEET NO.
	U-5604	UC-1B
DESIGNED BY: WMH	UTILITY DESIGN ENGINEER	
DRAWN BY: RGR/WMH		
CHECKED BY: MCM		
APPROVED BY:		
REVISSED:		
Stantec Consulting Services Inc. 801 Jones Franklin Road Suite 300 Raleigh, NC 27606 Tel. (919) 851-6866 Fax. (919) 851-7024 www.stantec.com License No. F-0672		
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151		
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WATER ALIGNMENTS

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STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

UTILITIES PLAN SHEET SYMBOLS

PROPOSED WATER SYMBOLS

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

PROPOSED SEWER SYMBOLS

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

PROPOSED MISCELLANEOUS UTILITIES SYMBOLS

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

Thrust Block	
Air Release Valve	
Utility Vault	
Abandon Utility (Sized as Shown)	
Concrete Pier	
Steel Pier	
Plan Note	
Pay Item Note	

EXISTING UTILITIES SYMBOLS

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

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

UTILITY CONSTRUCTION

GENERAL NOTES:

1. THE PROPOSED UTILITY CONSTRUCTION WILL MEET THE APPLICABLE REQUIREMENTS OF THE NC DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES" DATED JANUARY 2018.
2. THE EXISTING UTILITIES BELONG TO THE TOWN OF FRANKLIN, NC.
3. ALL WATER LINES WILL BE INSTALLED IN COMPLIANCE OF THE RULES AND REGULATIONS OF THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY, DIVISION OF WATER RESOURCES, PUBLIC WATER SUPPLY SECTION. ALL SEWER LINES WILL BE INSTALLED WITHIN COMPLIANCE OF THE RULES AND REGULATIONS OF THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT QUALITY, DIVISION OF WATER RESOURCES, WATER QUALITY SECTION. PERFORM ALL WORK IN ACCORDANCE WITH THE APPLICABLE PLUMBING CODES.
4. THE UTILITY OWNER OWNS THE EXISTING UTILITY FACILITIES AND WILL OWN THE NEW UTILITY FACILITIES AFTER ACCEPTANCE BY THE DEPARTMENT. THE DEPARTMENT OWNS THE CONSTRUCTION CONTRACT AND HAS ADMINISTRATIVE AUTHORITY. COMMUNICATIONS AND DECISIONS BETWEEN THE CONTRACTOR AND UTILITY OWNER ARE NOT BINDING UPON THE DEPARTMENT OR THIS CONTRACT UNLESS AUTHORIZED BY THE ENGINEER. AGREEMENTS BETWEEN THE UTILITY OWNER AND CONTRACTOR FOR THE WORK THAT IS NOT PART OF THIS CONTRACT OR IS SECONDARY TO THIS CONTRACT ARE ALLOWED, BUT ARE NOT BINDING UPON THE DEPARTMENT.
5. PROVIDE ACCESS FOR THE DEPARTMENT PERSONNEL AND THE OWNER'S REPRESENTATIVES TO ALL PHASES OF CONSTRUCTION. NOTIFY DEPARTMENT PERSONNEL AND THE UTILITY OWNER TWO WEEKS PRIOR TO COMMENCEMENT OF ANY WORK AND ONE WEEK PRIOR TO SERVICE INTERRUPTION. KEEP UTILITY OWNER'S REPRESENTATIVES INFORMED OF WORK PROGRESS AND PROVIDE OPPORTUNITY FOR INSPECTION OF CONSTRUCTION AND TESTING.


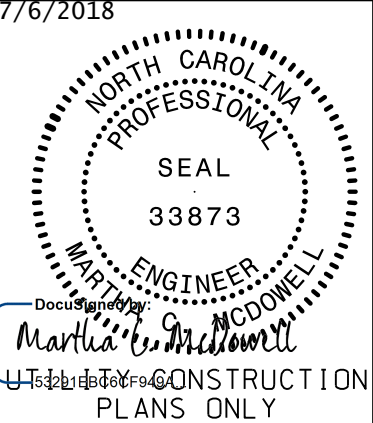
6. THE PLANS DEPICT THE BEST AVAILABLE INFORMATION FOR THE LOCATION, SIZE, AND TYPE OF MATERIAL FOR ALL EXISTING UTILITIES. MAKE INVESTIGATIONS FOR DETERMINING THE EXACT LOCATION, SIZE, AND TYPE MATERIAL OF THE EXISTING FACILITIES AS NECESSARY FOR THE CONSTRUCTION OF THE PROPOSED UTILITIES AND FOR AVOIDING DAMAGE TO EXISTING FACILITIES. REPAIR ANY DAMAGE INCURRED TO EXISTING FACILITIES TO THE ORIGINAL OR BETTER CONDITION AT NO ADDITIONAL COST TO THE DEPARTMENT.
7. MAKE FINAL CONNECTIONS OF THE NEW WORK TO THE EXISTING SYSTEM WHERE INDICATED ON THE PLANS, AS REQUIRED TO FIT THE ACTUAL CONDITIONS, OR AS DIRECTED.
8. MAKE CONNECTIONS BETWEEN EXISTING AND PROPOSED UTILITIES AT TIMES MOST CONVENIENT TO THE PUBLIC, WITHOUT ENDANGERING THE UTILITY SERVICE, AND IN ACCORDANCE WITH THE UTILITY OWNER'S REQUIREMENTS. MAKE CONNECTIONS ON WEEKENDS, AT NIGHT, AND ON HOLIDAYS IF NECESSARY.
9. ALL UTILITY MATERIALS WILL BE APPROVED PRIOR TO DELIVERY TO THE PROJECT. SEE 1500-7, " SUBMITTALS AND RECORDS" IN SECTION 1500 OF THE STANDARD SPECIFICATIONS.

STANDARD DETAIL DRAWINGS

1. STANDARD DETAILS ARE PROVIDED FOR THE PROJECT. TOWN OF FRANKLIN STANDARD DETAILS ARE TO BE USED WHEN APPLICABLE. A COPY OF TOWN STANDARD DETAILS ARE AVAILABLE ON LINE: www.franklinnc.com
2. IF NO STANDARD DETAILS ARE PROVIDED IN DRAWINGS OR BY TOWN, THEN USE NCDOT STANDARD SPECIFICATIONS, DIVISION 15 STANDARD DETAILS FOR UTILITY CONSTRUCTION.

PROJECT SPECIFIC NOTES:

1. ALL NEW WATER LINE WILL BE RJD1 (RESTRAINED JOINT DUCTILE IRON) PIPE UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
2. WATER MAINS OR SEWER LINES CROSSING UNDER STORM DRAIN PIPE WILL HAVE 18" MINIMUM VERTICAL CLEARANCE UNLESS SPECIFIED ON THE PLAN/PROFILE DRAWINGS.
3. CONTRACTOR'S ATTENTION IS DIRECTED TO SECTIONS 102, 107, AND 1550 OF THE STANDARD SPECIFICATIONS CONCERNING TRENCHLESS INSTALLATION. IT IS CONTRACTOR'S RESPONSIBILITY TO HAVE BORE DESIGNED AND SEALED BY A LICENSED NORTH CAROLINA PROFESSIONAL ENGINEER. NO DAMAGE IS ALLOWED TO RIVER, WETLANDS, OR BUFFER ZONES.
4. ALL MATERIALS AND CONSTRUCTION PERTAINING TO WATER AND SEWER LINE CONSTRUCTION WILL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF TOWN OF FRANKLIN.
5. CONTRACTOR WILL OBTAIN THE LATEST STANDARDS, SPECIFICATIONS, AND STANDARD DETAILS DRAWINGS OF TOWN OF FRANKLIN AND NCDOT.

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	U-5604	UC-3
	DESIGNED BY: MCM	
	DRAWN BY: RGR/MCM	
	CHECKED BY: MCM	
	APPROVED BY:	
REVISED:		
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151		UTILITY CONSTRUCTION PLANS ONLY
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UTILITY CONSTRUCTION

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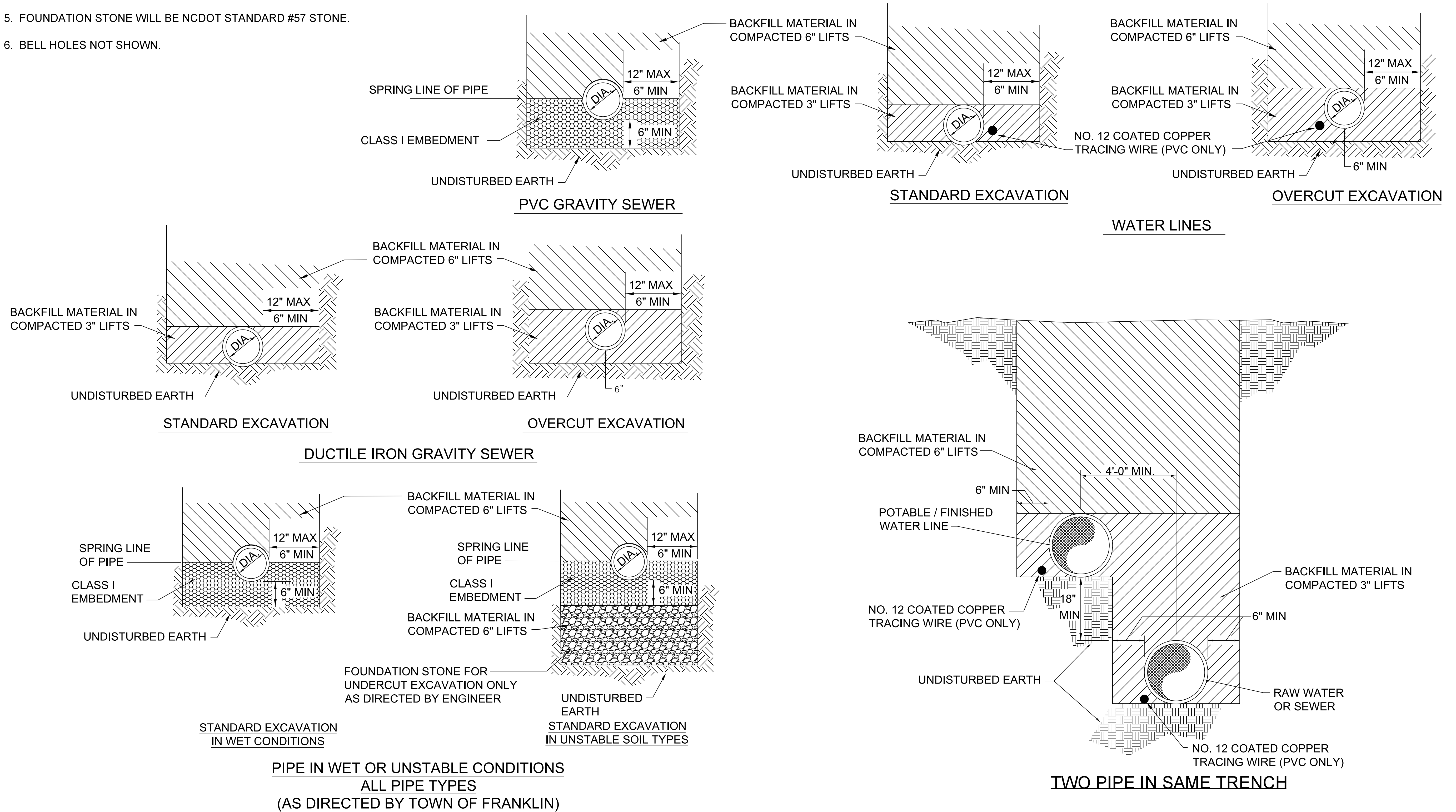
PROJECT TYPICAL DETAILS - TOWN OF FRANKLIN

NOTES:

1. CONSTRUCTION OF TRENCHES WILL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL SAFETY AND HEALTH REGULATIONS WHICH HAVE JURISDICTION AT THE PROJECT SITE. IT IS THE CONTRACTORS RESPONSIBILITY TO BE FAMILIAR WITH THE APPLICABLE REGULATION AND FOLLOW THEM ACCORDINGLY.
2. PAYMENT FOR ROCK EXCAVATION AND SELECT BACKFILL IN TRENCH WILL BE FOR ACTUAL QUANTITIES AND WILL NOT EXCEED THE WIDTH OF TRENCH SHOWN IN THE DETAILS.
3. PVC PIPE INSTALLTION: CONTRACTOR WILL FURNISH AND INSTALL METALLIC WIRING TAPE 24-INCHES ABOVE THE PIPE AND COPPER TRACING WIRE.
4. CLASS I EMBEDMENT WILL BE NCDOT STANDARD #57 STONE OR APPROVED EQUAL.
5. FOUNDATION STONE WILL BE NCDOT STANDARD #57 STONE.
6. BELL HOLES NOT SHOWN.

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	DESIGNED BY: MCM	7/6/2018
	DRAWN BY: RGR/MCM	
	CHECKED BY: MCM	
	APPROVED BY:	
	REVISD:	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151		NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  UTILITY CONSTRUCTION PLANS ONLY
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UTILITY CONSTRUCTION



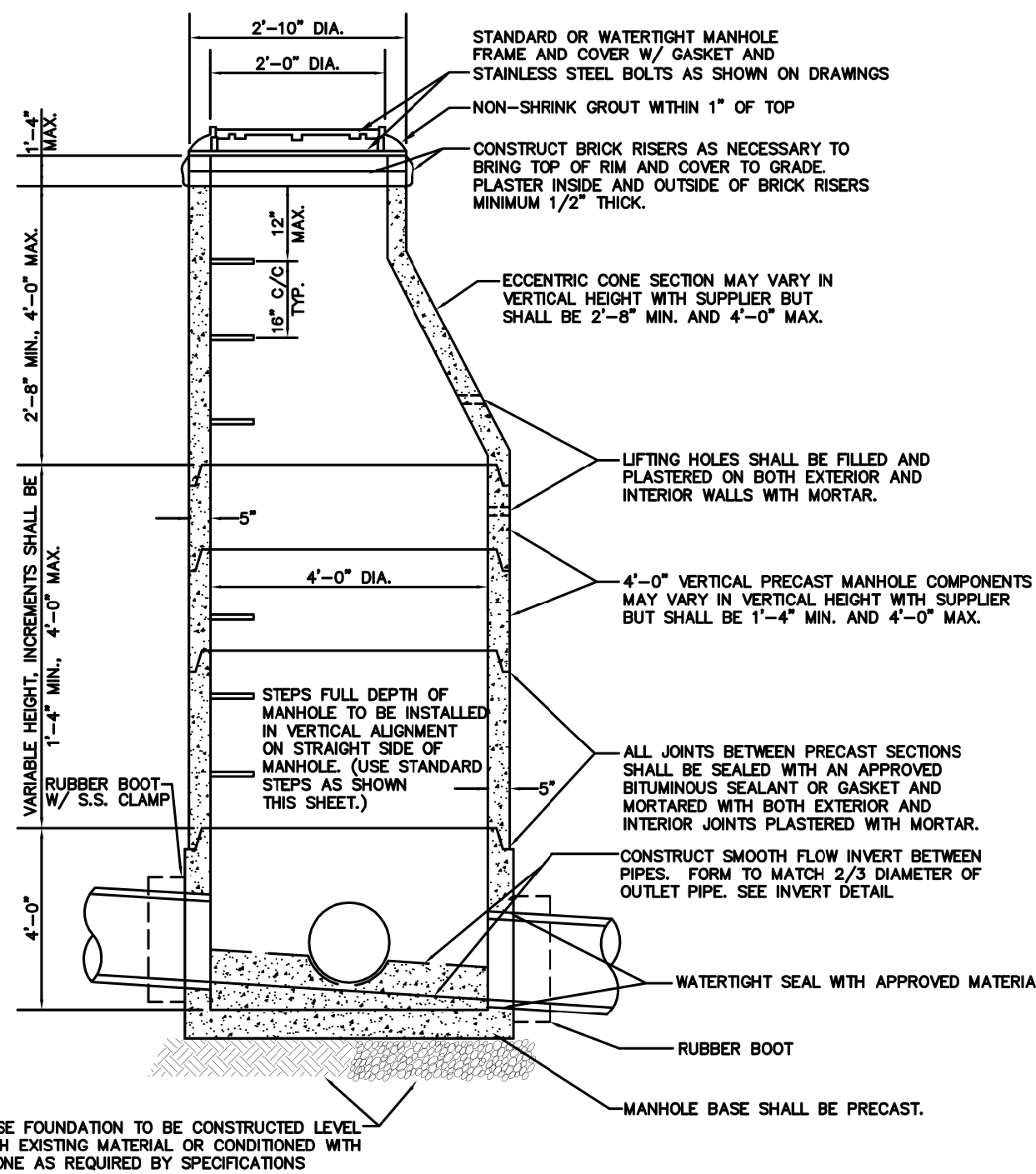
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PROJECT TYPICAL DETAILS - TOWN OF FRANKLIN



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PROJECT REFERENCE NO. U-5604	SHEET NO. UC-3C
DESIGNED BY: MCM	7/6/2018
DRAWN BY: RGR/MCM	
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NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
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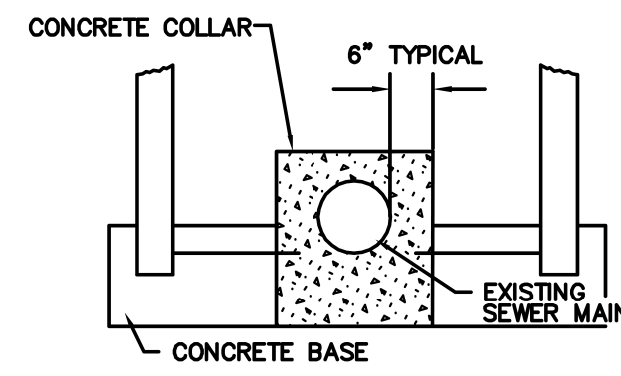


ELEVATION VIEW

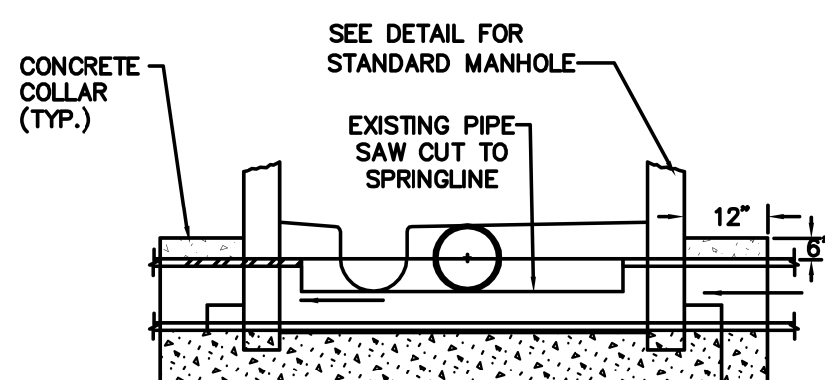
PRECAST MANHOLE NOTES:

1. ALL PRECAST MANHOLE COMPONENTS SHALL MEET REQUIREMENTS OF ASTM C-478, LATEST REVISION.
2. ALL MANHOLES SHALL BE CONSTRUCTED PLUMB.
3. ALL MANHOLE GRADES SHOWN ON THE PLANS ARE FOR THE INVERT OF THE MANHOLE CENTER.
4. IF MANHOLE IS SET IN LOCATION OF HIGH WATER TABLE OR UNDERGROUND WATER IS ENCOUNTERED, THE CONTRACTOR SHALL INSTALL STAKEORAINS AND STONE AS DIRECTED IN THE FIELD BY THE ENGINEER.
5. STEPS SHALL BE INSTALLED ON STRAIGHT SIDE OF MANHOLE.

PRECAST CONCRETE MANHOLE



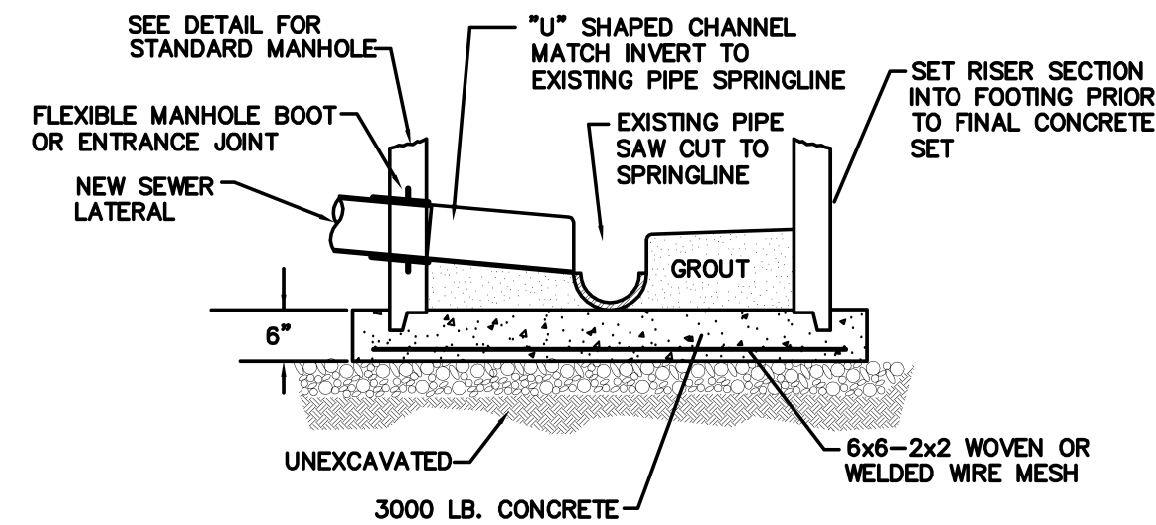
SECTION "C - C"



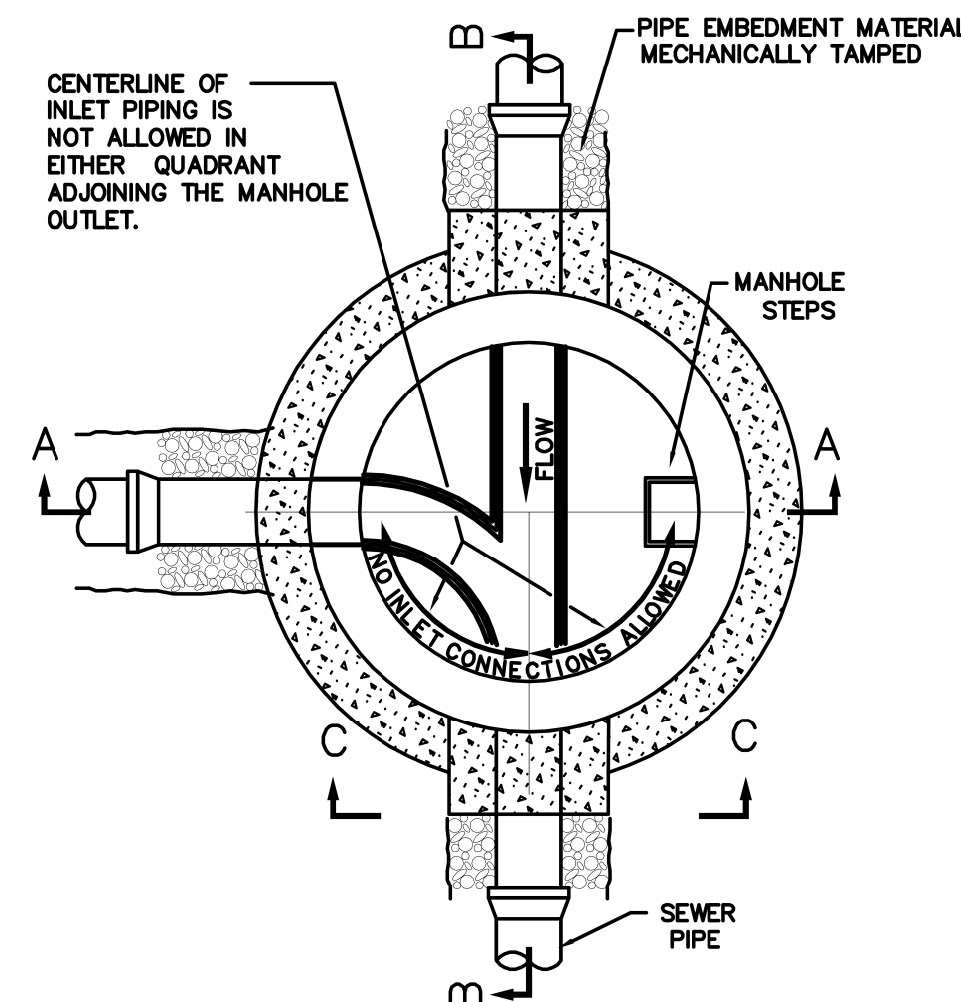
SECTION "B - B"

- NOTES:**
1. THIS DETAIL MUST BE USED FOR CONSTRUCTION OF ALL MANHOLES OVER EXISTING SEWER MAINS.
 2. LATERALS 6" AND LARGER SHALL BE CONNECTED AT MANHOLES ONLY.
 3. FLOW SHALL BE MAINTAINED DURING CONSTRUCTION.
 4. MANHOLE BASE SHALL BE CAST IN PLACE.

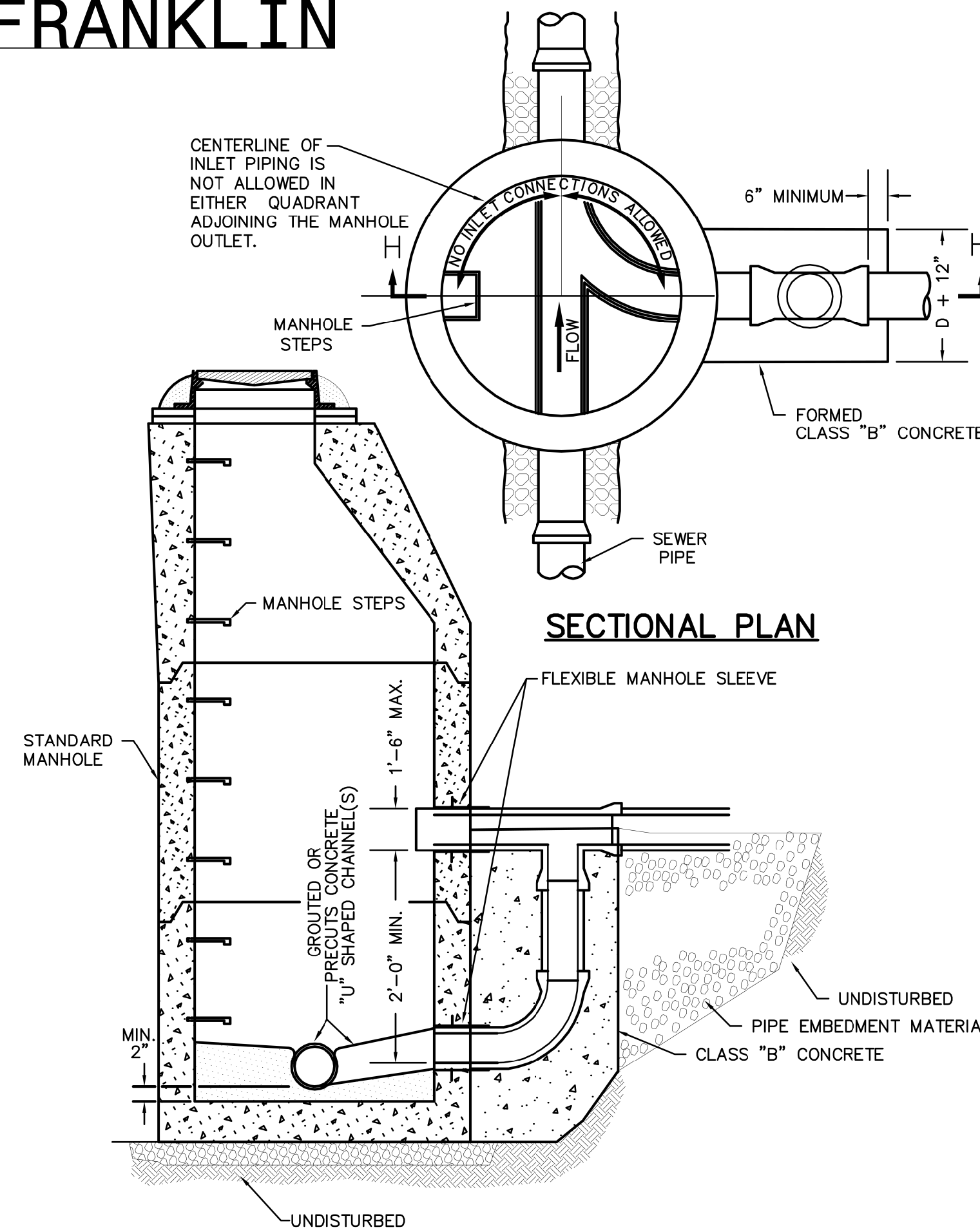
MANHOLE OVER EXISTING SEWER LINE



SECTION "A - A"



SECTIONAL PLAN



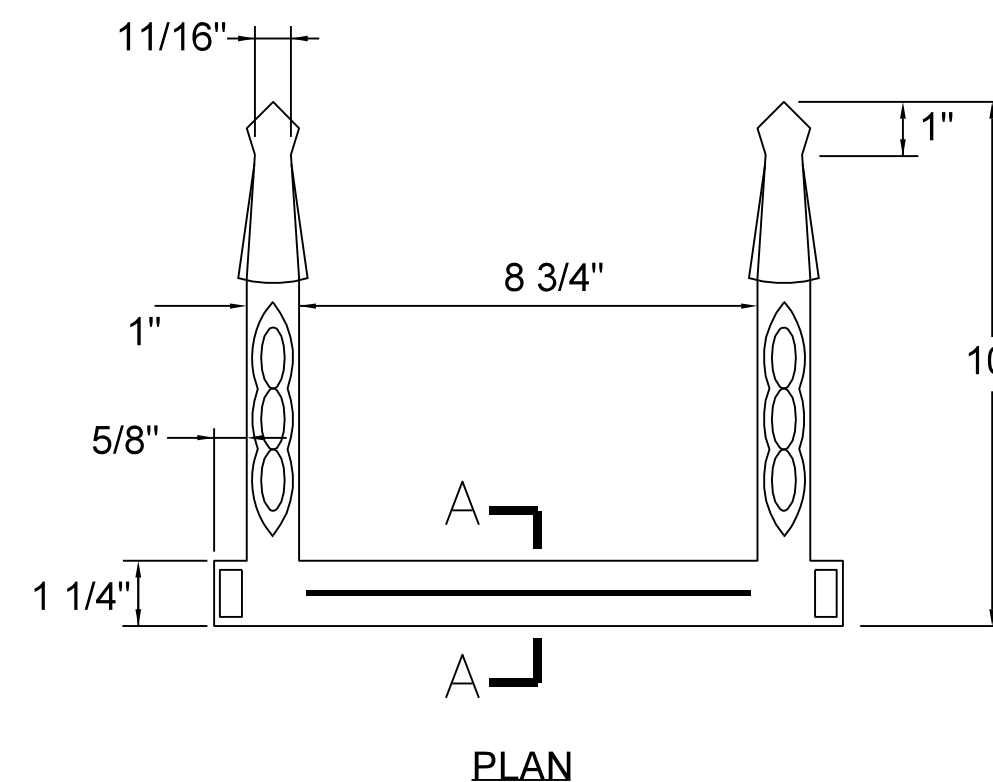
SECTIONAL PLAN

SECTION H-H

NOTE:

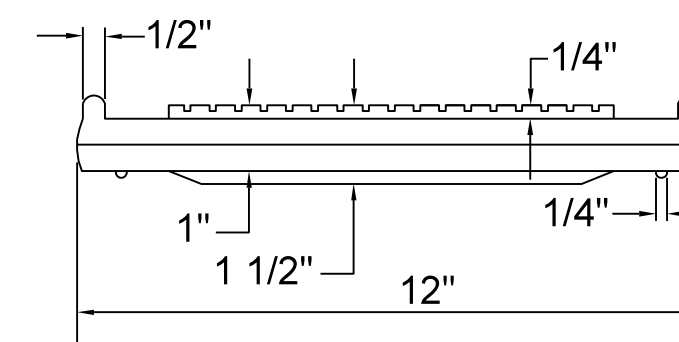
1. DROP CONNECTION IS NOT PERMITTED FOR HIGH VELOCITY SEWER MAINS MAINTAIN MINIMUM OF 8" OF CLEARANCE BETWEEN DROP CONNECTION AND MANHOLE STEPS.
2. BASE FOUNDATION TO CONSTRUCTED LEVEL WITH EXISTING MATERIAL OR WITH STONE AS REQUIRED BY SPECIFICATIONS

DROP MANHOLE DETAIL

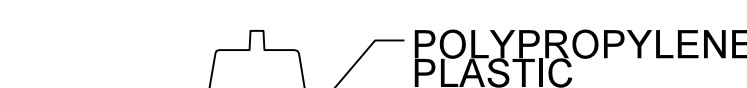


PLAN

SIDE ELEVATION



ELEVATION

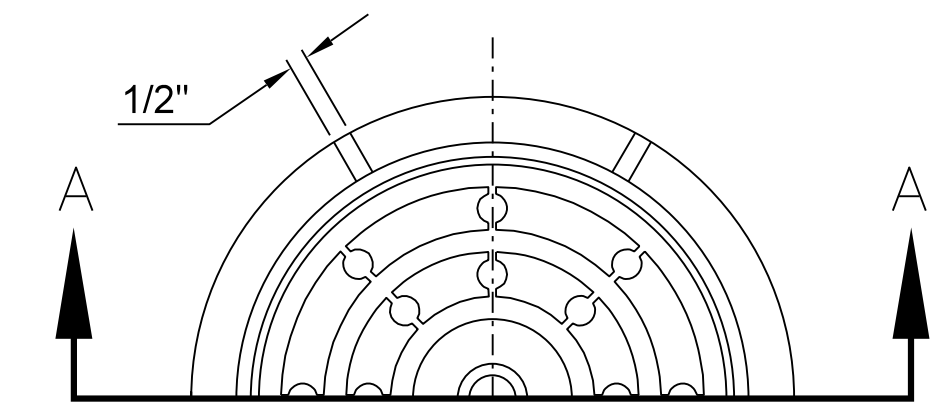


SECTION A-A

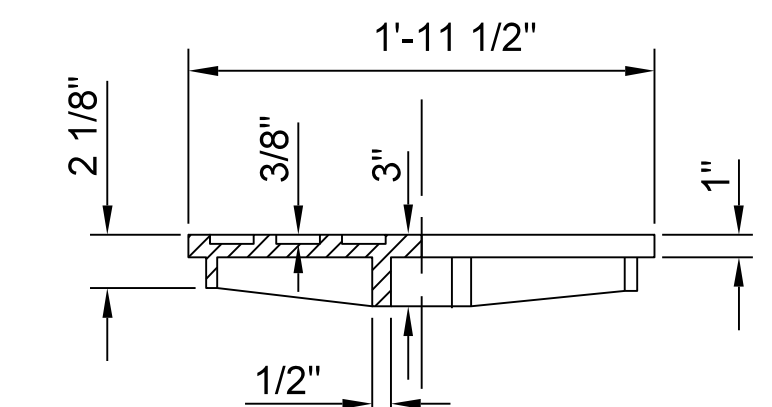
MANHOLE STEPS

- MAN HOLE STEPS CONSTRUCTION NOTES:**
1. ALL STEPS WILL PROTRUDE A MINIMUM OF 5" AND A MAXIMUM OF 7" FROM INSIDE FACE OF STRUCTURAL WALL.
 2. STEPS DIFFERING IN DIMENSIONS, CONFIGURATION, OR MATERIALS FROM THOSE SHOWN MAY ALSO BE USED PROVIDED THE CONTRACTOR HAS FURNISHED CITY WITH DETAILS OF THE PROPOSED STEPS AND HAS RECEIVED PRIOR WRITTEN APPROVAL FORM THE CITY ENGINEER FOR THE USE OF SAID STEPS.

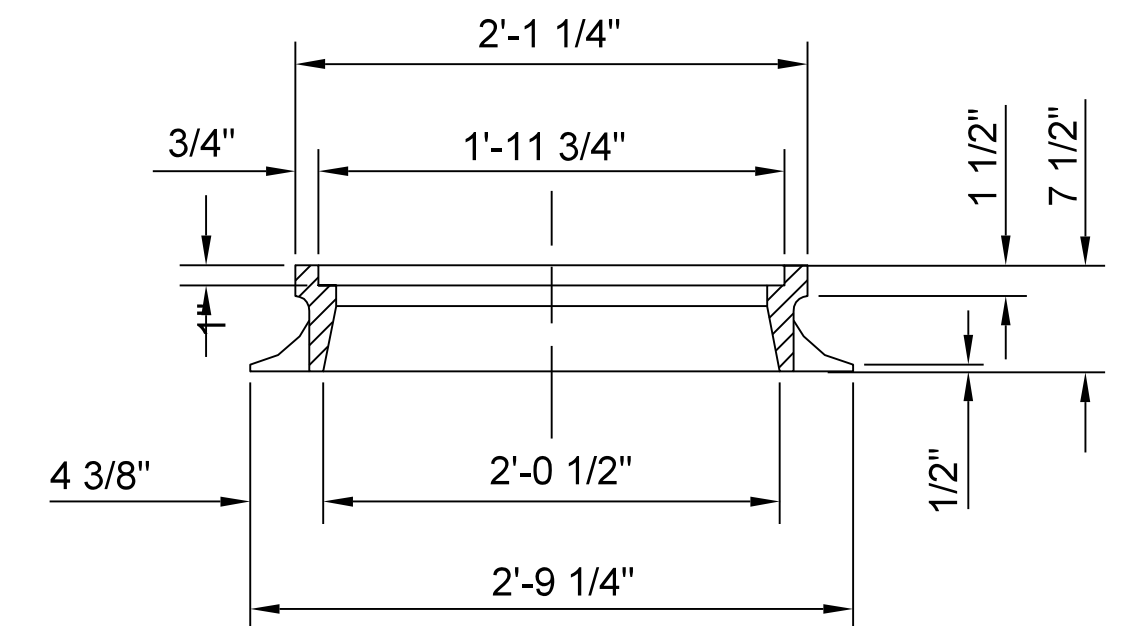
UTILITY CONSTRUCTION



HALF PLAN OF MANHOLE RING AND COVER



SECTION A-A MANHOLE COVER




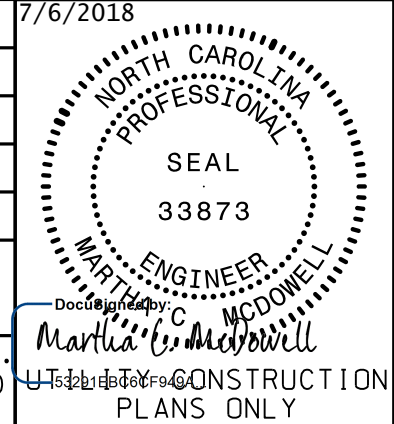
SECTION A-A MANHOLE RING

- NOTES:**
1. TRAFFIC BEARING RING AND COVER.
 2. MINIMUM WEIGHT 315 POUNDS.

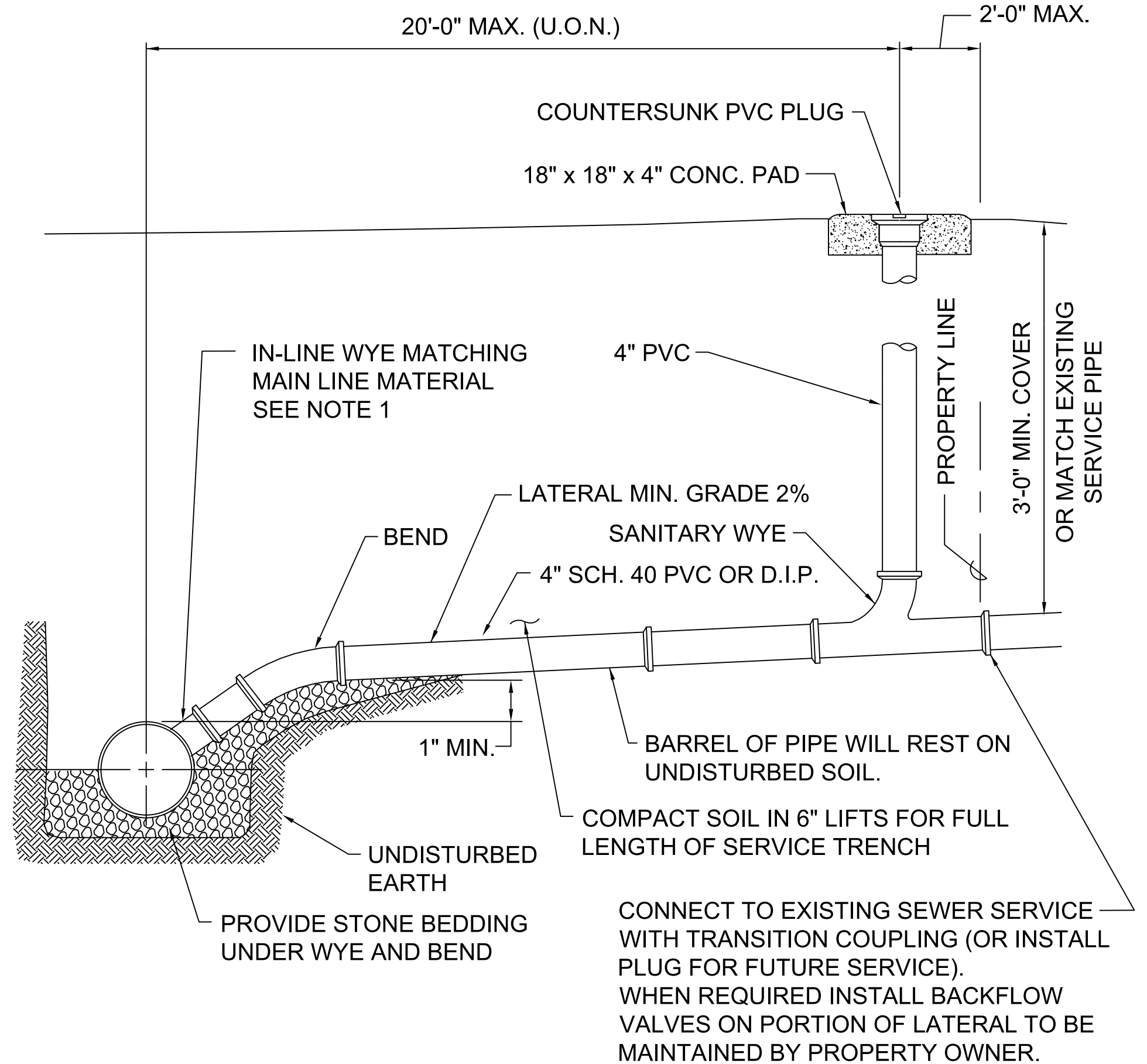
MANHOLE RING AND COVER

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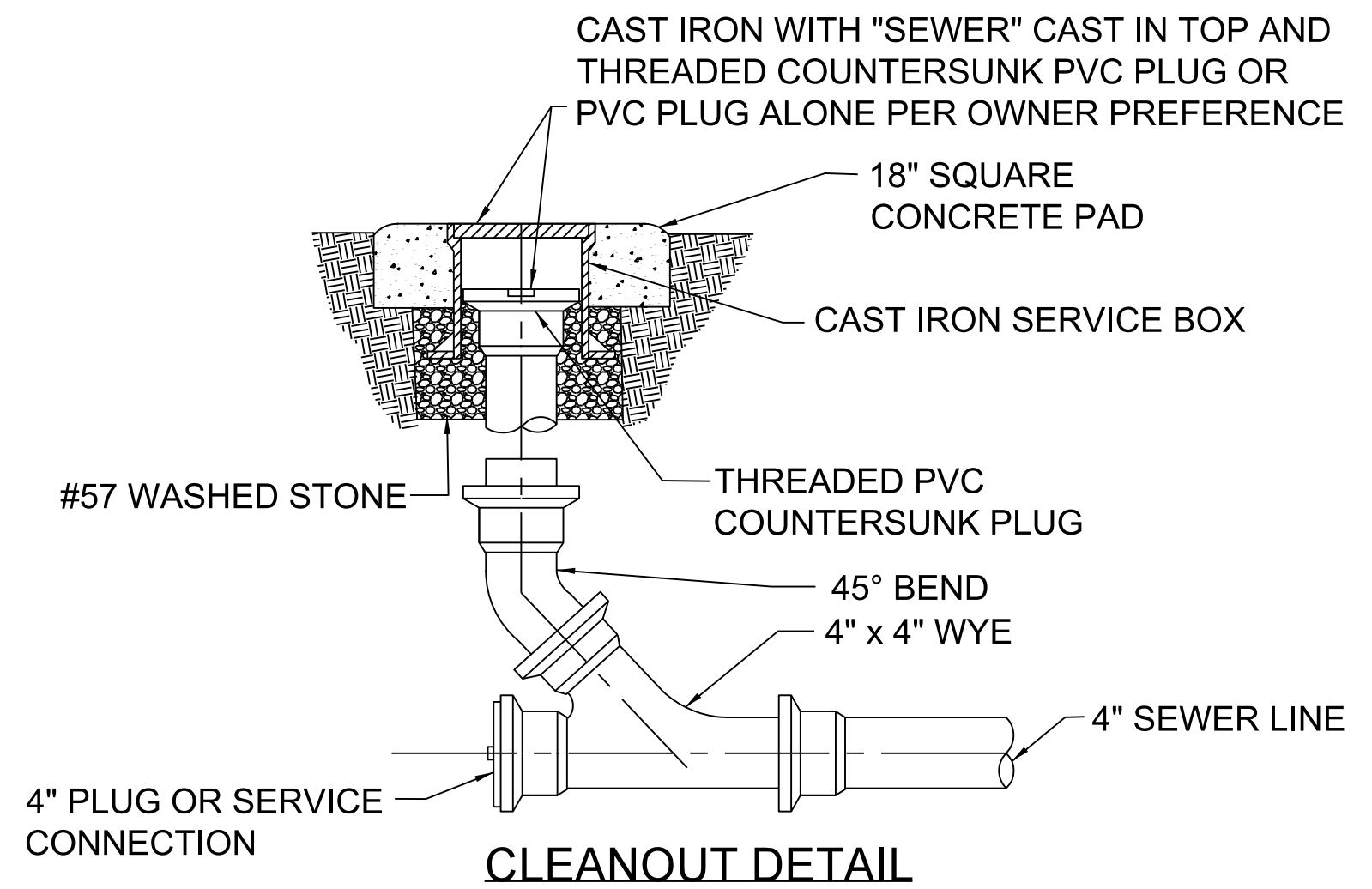
PROJECT TYPICAL DETAILS - TOWN OF FRANKLIN

 <p>Stantec Consulting Services Inc. 801 Jones Franklin Road Suite 300 Raleigh, NC 27606 Tel. (919) 851-6866 Fax. (919) 851-7024 www.stantec.com License No. F-0672</p>	PROJECT REFERENCE NO.	SHEET NO.
	U5604	UC-3D
	DESIGNED BY: WMH	7/6/2018
	DRAWN BY: RGR	
	CHECKED BY: MCM	
	APPROVED BY:	
REVISED:		
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151		NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 33873 Matthew C. McDaniel LICENSE NO. 100001 CIVIL ENGINEER PLANS ONLY

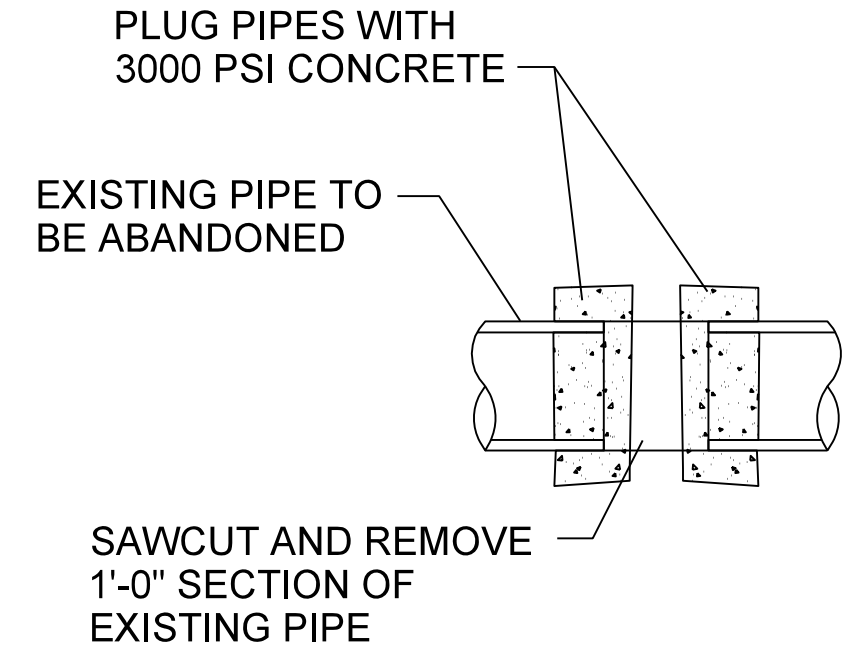
UTILITY CONSTRUCTION



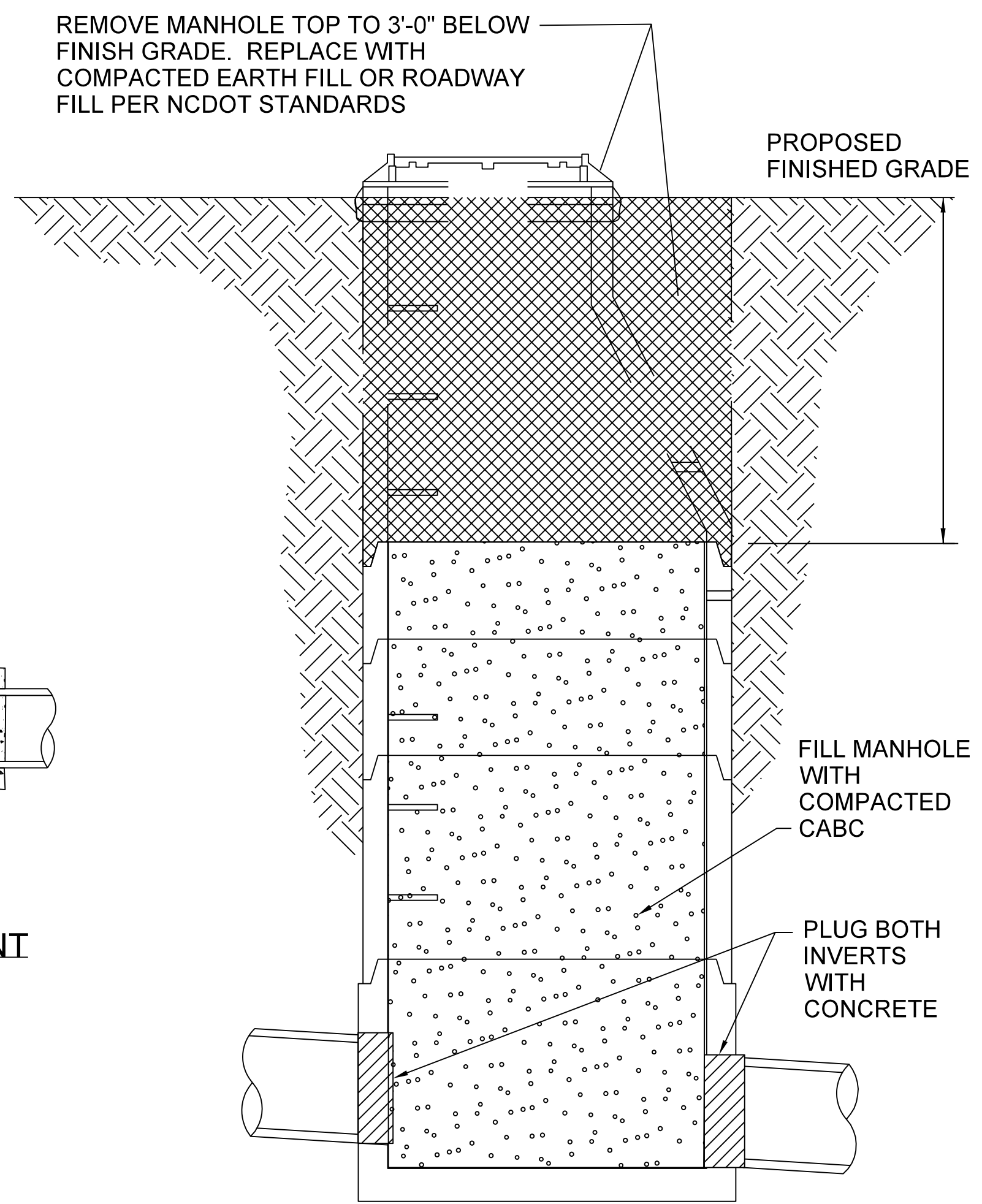
SANITARY SEWER SERVICE DETAIL



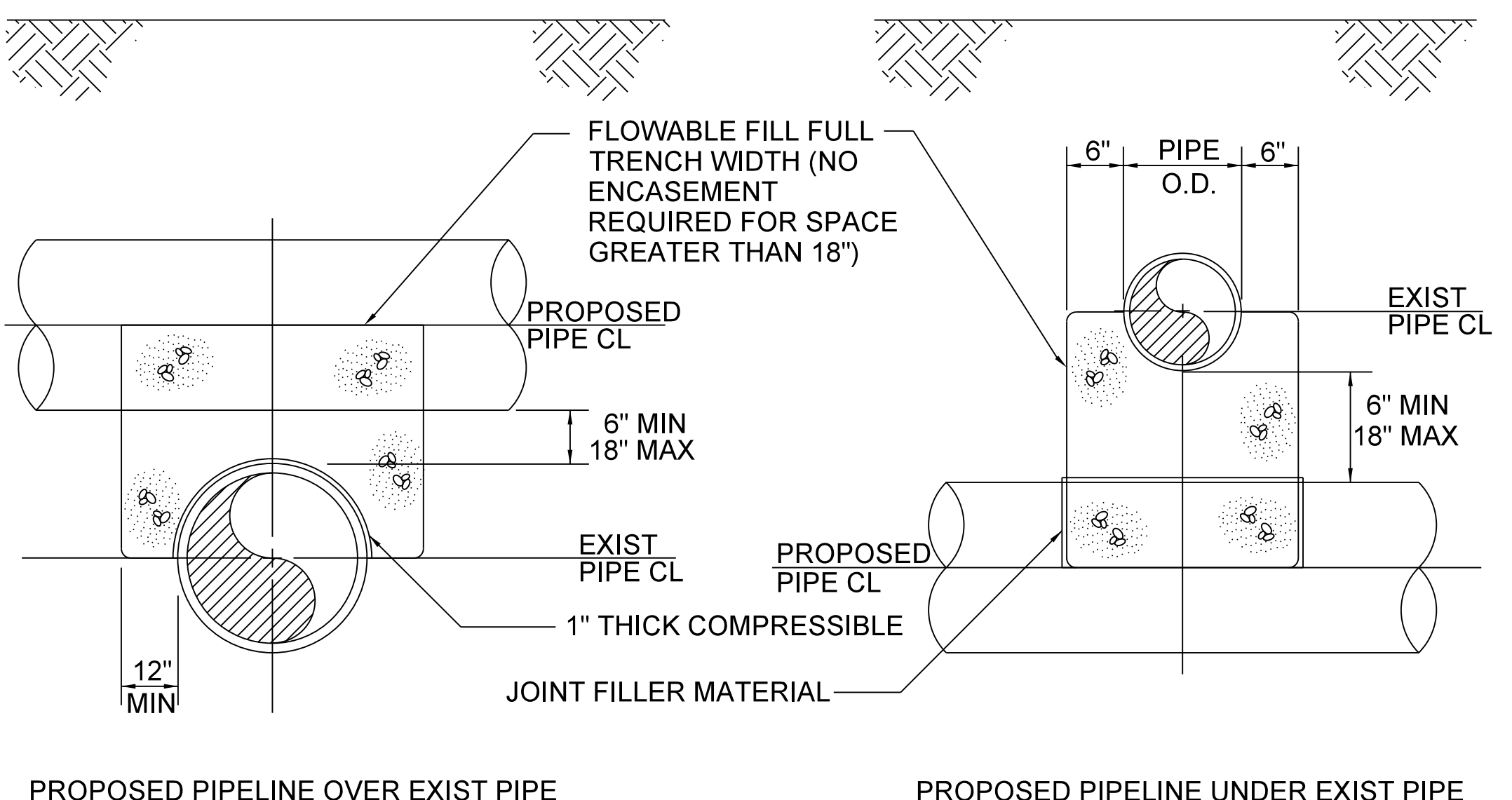
CLEANOUT DETAIL



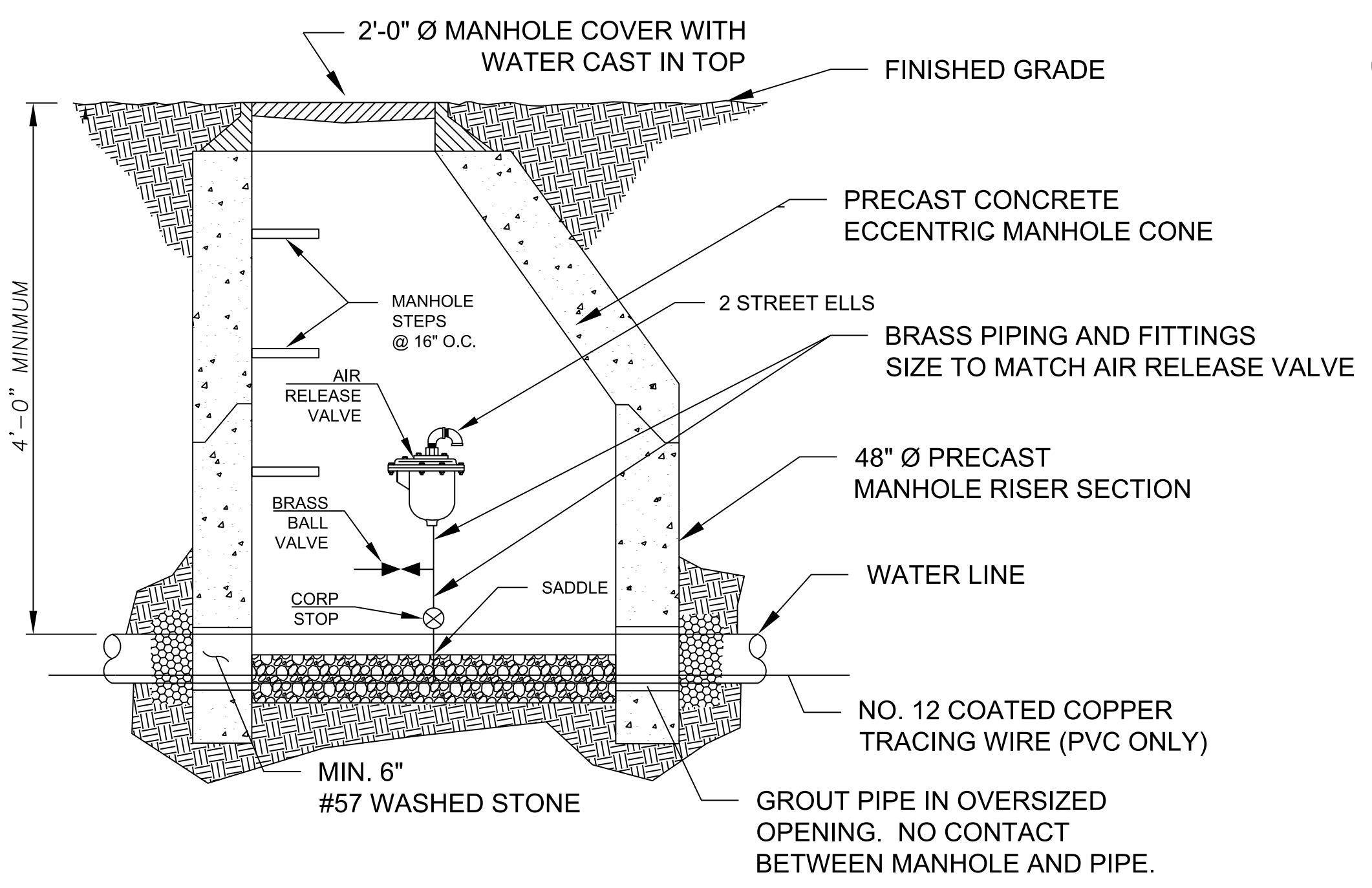
SEWER LINE ABANDONMENT



ELEVATION VIEW
MANHOLE DEMOLITION AND ABANDONMENT



PIPE OVER PIPE DETAIL



TYPICAL AIR RELEASE VALVE INSTALLATION

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PROJECT TYPICAL DETAILS - TOWN OF FRANKLIN

THRUST BLOCK NOTES:

1. FITTING JOINTS SHALL NOT BE POURED IN CONCRETE OR HAVE CONCRETE SPILLED ON THE BOLTS OR NUTS. THE FITTING SHALL BE WRAPPED IN A LAYER OF POLYETHYLENE PLASTIC PRIOR TO POURING THE THRUST BLOCK.

2. ROD AND EYE BOLT DIAMETER SHALL BE MINIMUM OF 3/4" AND SHALL MATCH THE SIZE OF THE BOLT PROVIDED WITH THE FITTING.

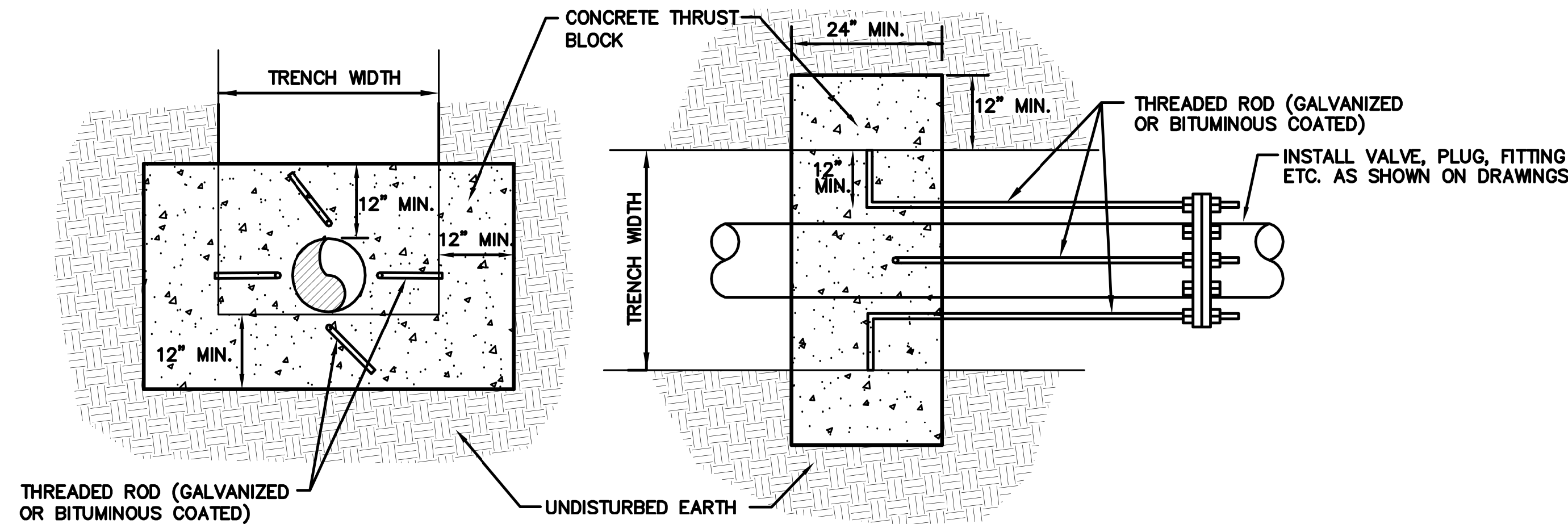
3. CONTRACTOR SHALL REPLACE FITTING BOLTS WITH THREADED ROD FOR 1/2 OF THE BOLTS SUPPLIED WITH EACH FITTING. RODS SHALL BE EQUALLY SPACED.



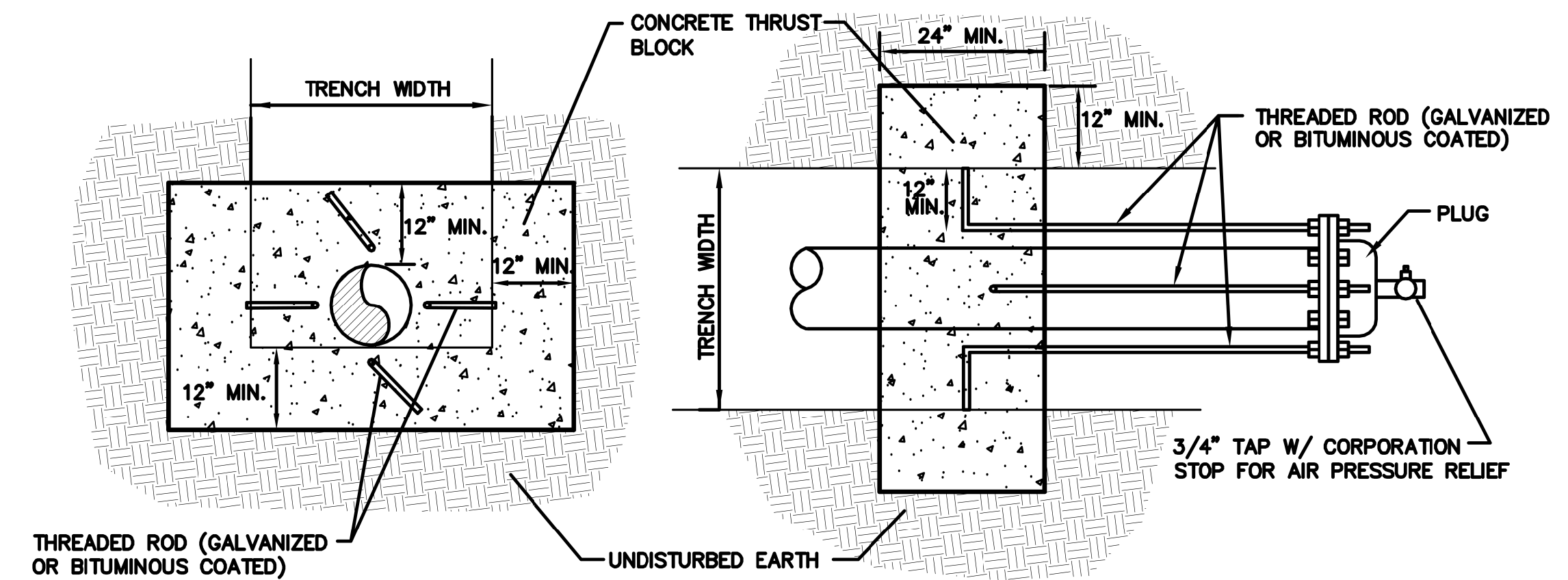
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Fax. (919) 851-7024
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PROJECT REFERENCE NO. U5604	SHEET NO. UC-3E
DESIGNED BY: WMH	7/6/2018
DRAWN BY: RGR	
CHECKED BY: MCM	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
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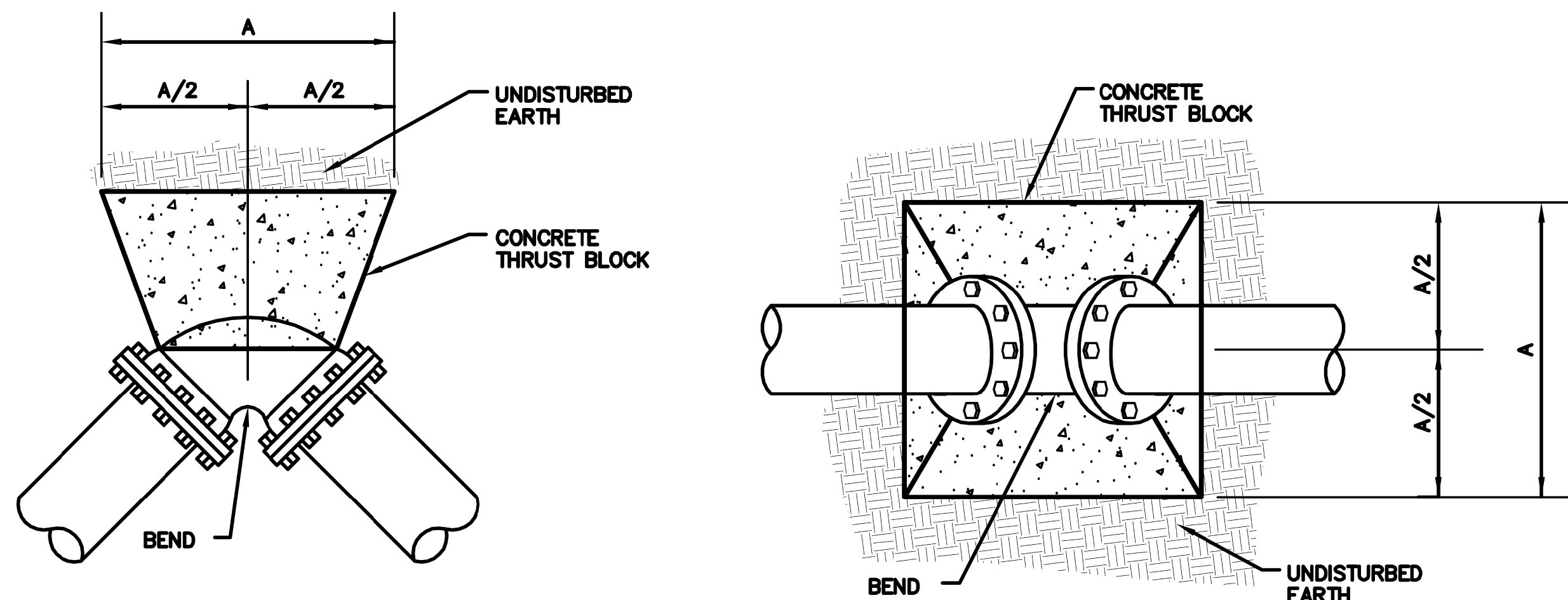
UTILITY CONSTRUCTION



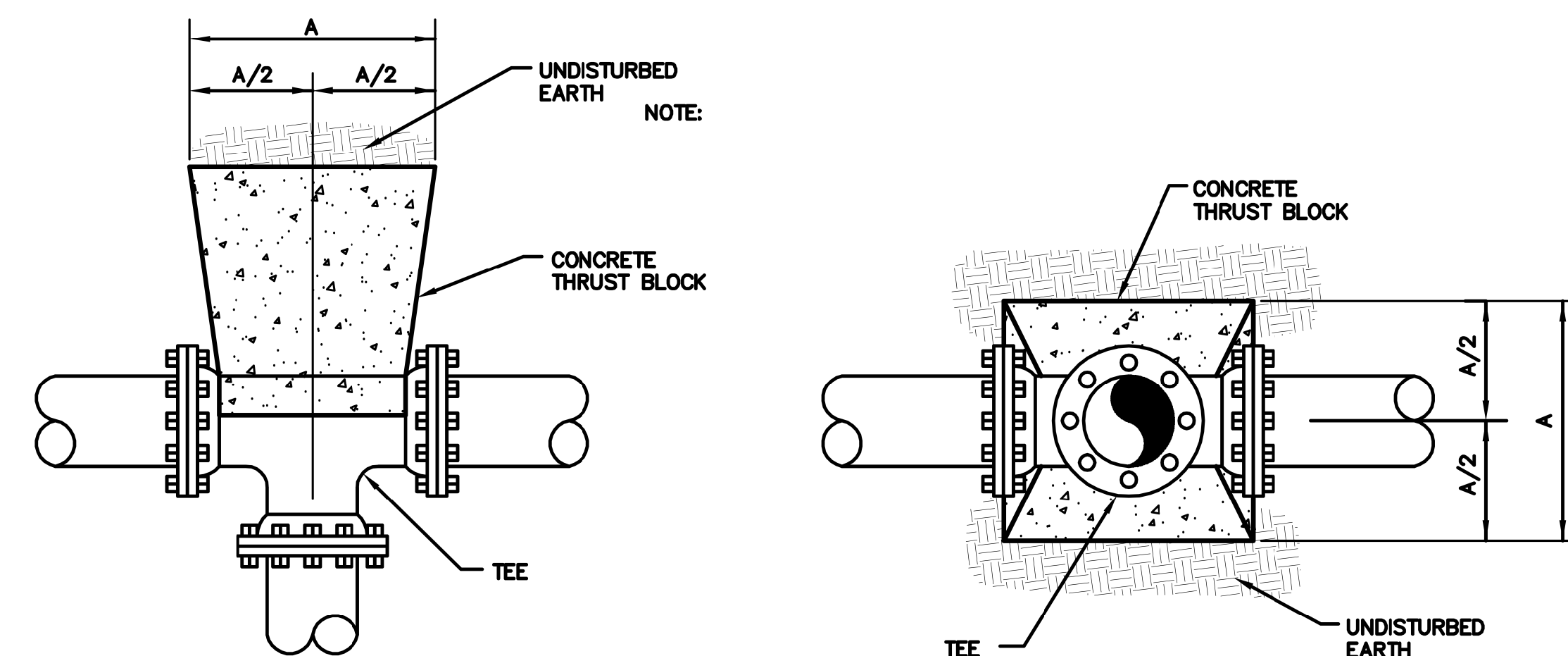
TYPICAL DEADMAN THRUST BLOCK



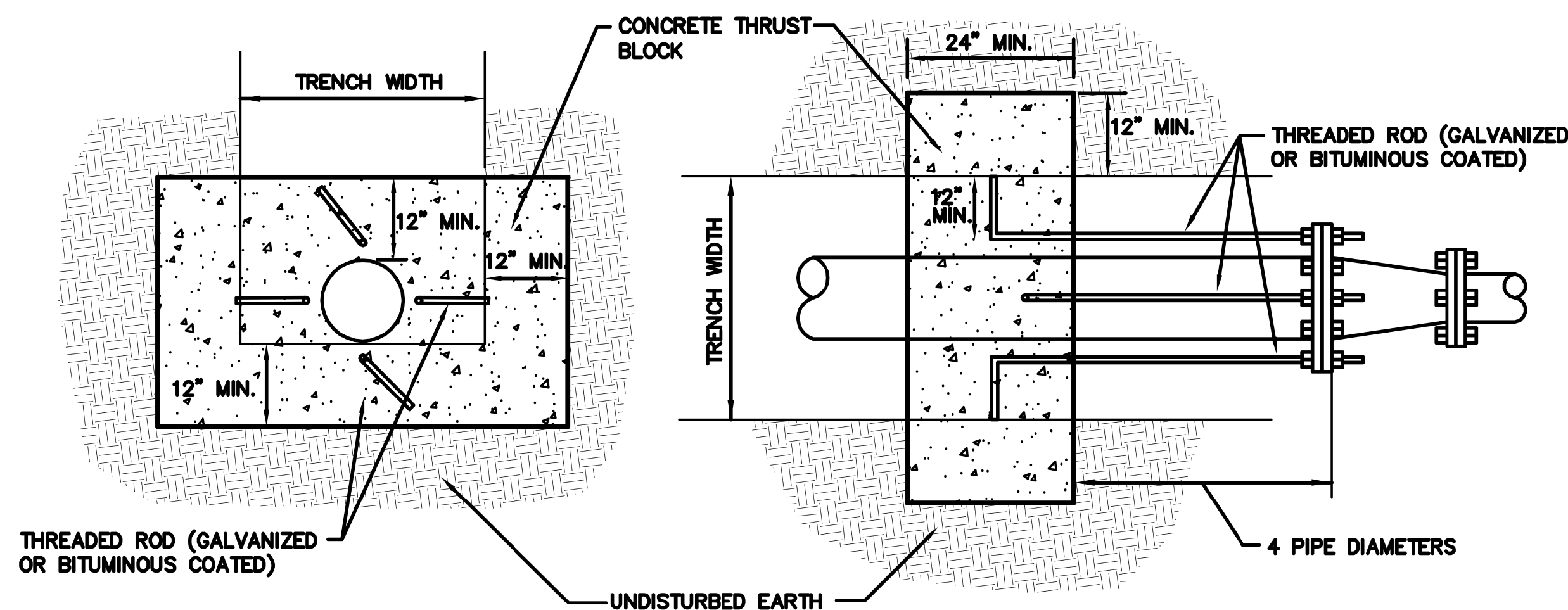
TYPICAL THRUST BLOCK FOR PLUGS



TYPICAL THRUST BLOCKS FOR BENDS



TYPICAL THRUST BLOCK DETAILS



TYPICAL THRUST BLOCK FOR REDUCER

SIZE	TYPE					
	11-1/4' BEND	22-1/2' BEND	45' BEND	90' BEND	TEE	PLUG
2-6	12	12	12	16	16	14
8	12	12	16	22	22	18
10	12	14	20	28	28	22
12	12	18	24	32	32	28
14	14	20	28	38	38	32
16	16	22	32	42	42	36
18	18	26	36	48	48	40
20	20	28	40	52	52	44
24	24	34	46	64	64	54
30	30	42	58	78	78	66
36	36	50	70	94	94	80
42	40	58	80	108	108	92
48	46	66	90	124	124	104

THRUST BLOCK DIMENSION "A"

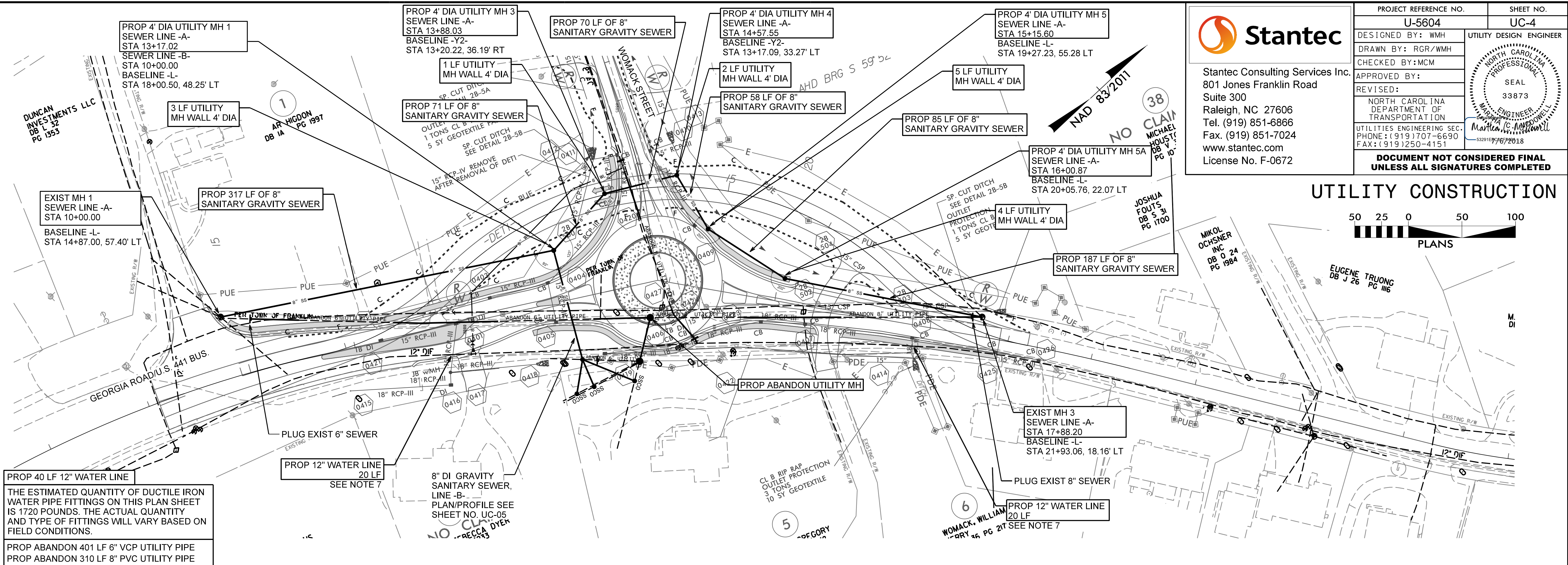
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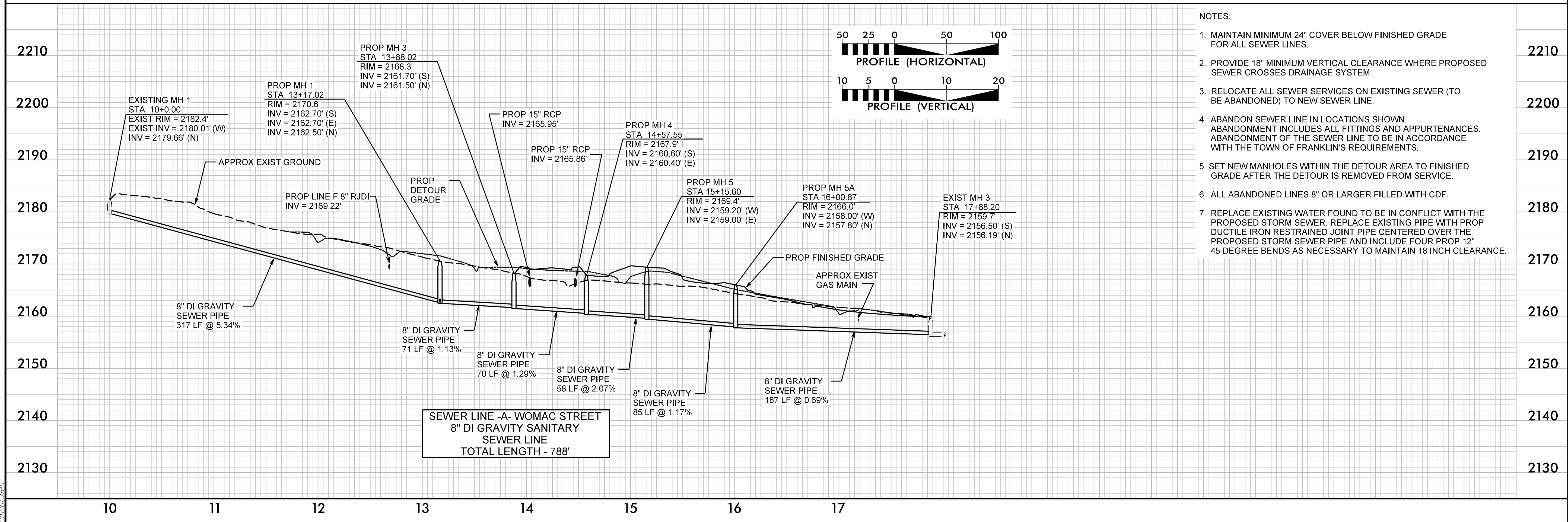
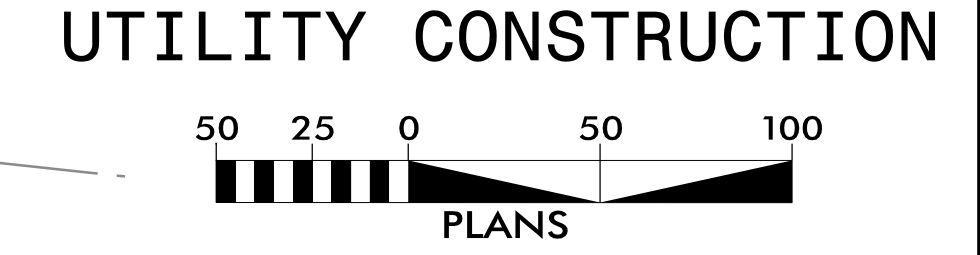
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PROJECT REFERENCE NO. U-5604	SHEET NO. UC-4
DESIGNED BY: WMH	UTILITY DESIGN ENGINEER
DRAWN BY: RGR/WMH	 NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 33873 MARTIN C. MCDONNELL 53291 E.F. 16/2018
CHECKED BY: MCM	
APPROVED BY:	NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
REVISED:	UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151

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PROP 40 LF 12" WATER LINE
THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 1720 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.
PROP ABANDON 401 LF 6" VCP UTILITY PIPE
PROP ABANDON 310 LF 8" PVC UTILITY PIPE



- NOTES:
1. MAINTAIN MINIMUM 24" COVER BELOW FINISHED GRADE FOR ALL SEWER LINES.
 2. PROVIDE 18" MINIMUM VERTICAL CLEARANCE WHERE PROPOSED SEWER CROSSES DRAINAGE SYSTEM.
 3. RELOCATE ALL SEWER SERVICES ON EXISTING SEWER (TO BE ABANDONED) TO NEW SEWER LINE.
 4. ABANDON SEWER LINE IN LOCATIONS SHOWN. ABANDONMENT INCLUDES ALL FITTINGS AND APPURTENANCES. ABANDONMENT OF THE SEWER LINE TO BE IN ACCORDANCE WITH THE TOWN OF FRANKLIN'S REQUIREMENTS.
 5. SET NEW MANHOLES WITHIN THE DETOUR AREA TO FINISHED GRADE AFTER THE DETOUR IS REMOVED FROM SERVICE.
 6. ALL ABANDONED LINES 8" OR LARGER FILLED WITH CDF.
 7. REPLACE EXISTING WATER FOUND TO BE IN CONFLICT WITH THE PROPOSED STORM SEWER. REPLACE EXISTING PIPE WITH PROP DUCTILE IRON RESTRAINED JOINT PIPE CENTERED OVER THE PROPOSED STORM SEWER PIPE AND INCLUDE FOUR PROP 12" 45 DEGREE BENDS AS NECESSARY TO MAINTAIN 18 INCH CLEARANCE.

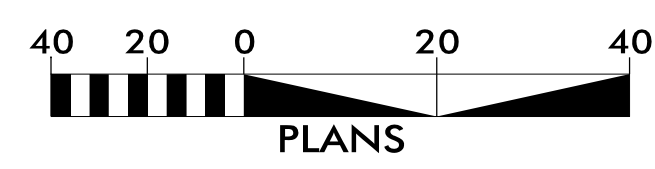
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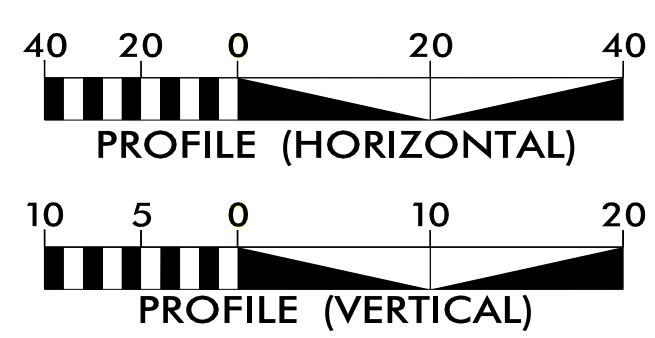
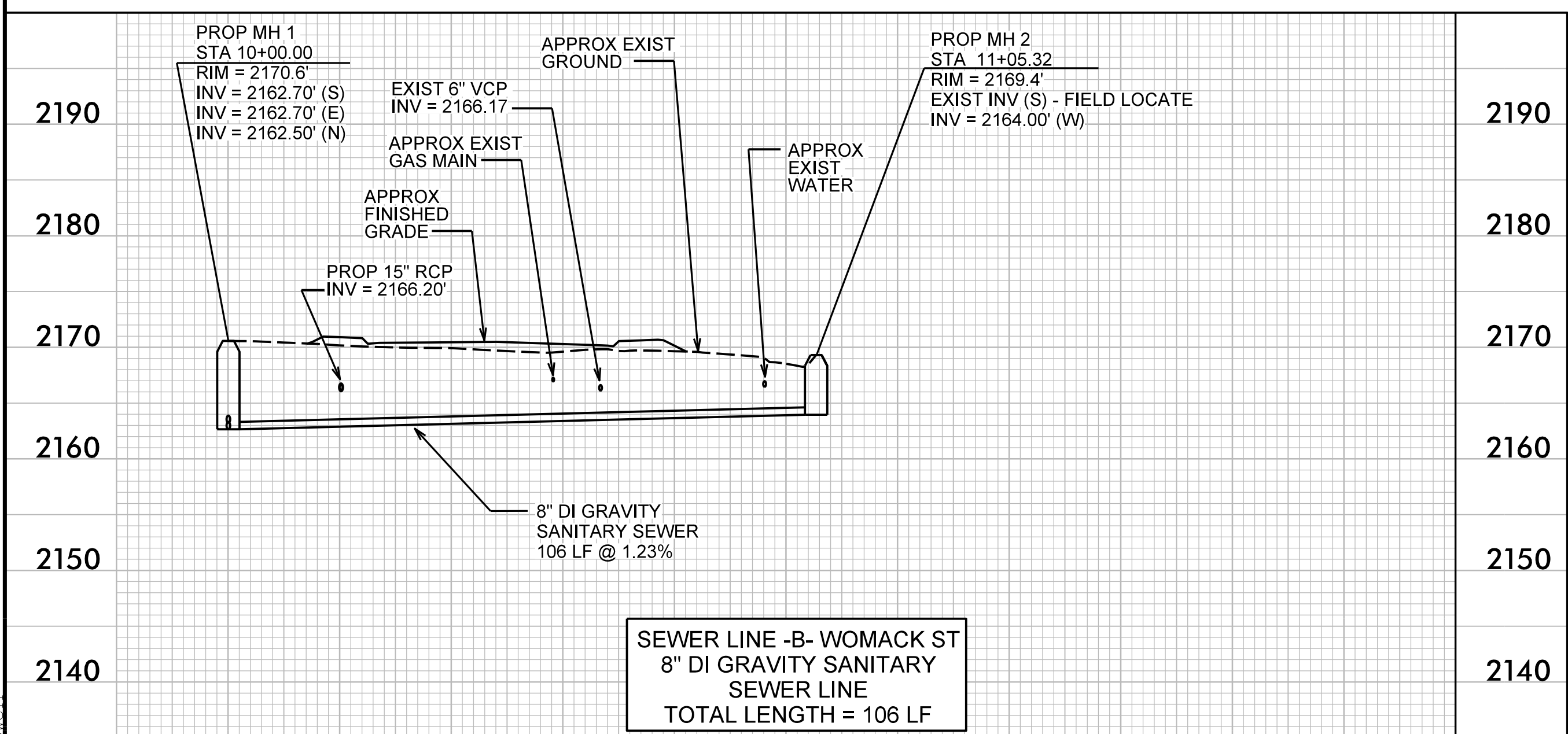
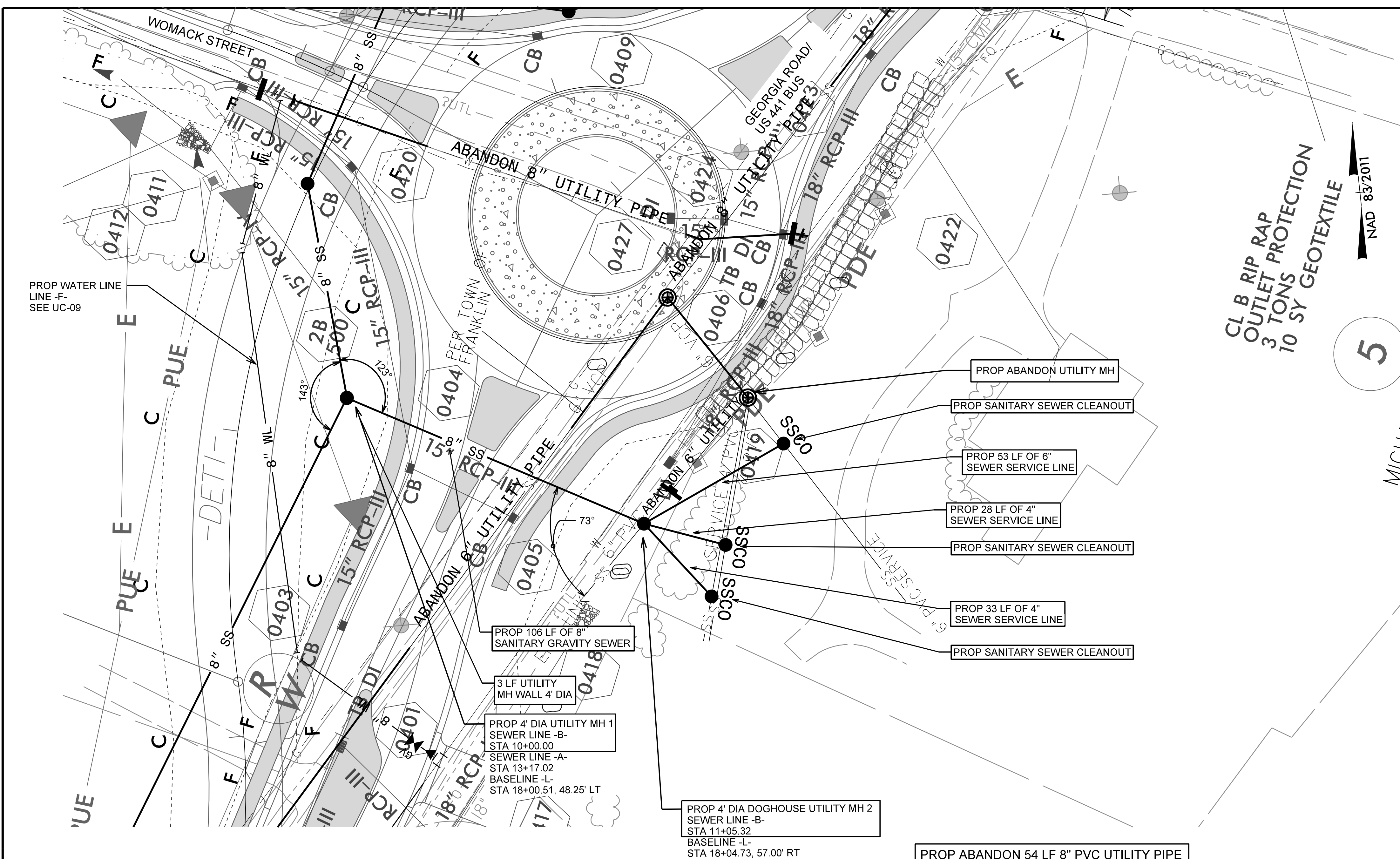
PROJECT REFERENCE NO.	U-5604	SHEET NO.	UC-5
DESIGNED BY: WMH	7/6/2011	UTILITY DESIGN ENGINEER	
DRAWN BY: RGR/WMH			
CHECKED BY: MCM			
APPROVED BY:			
REVISED:			
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION		SEAL	
		33873	
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UTILITY CONSTRUCTION



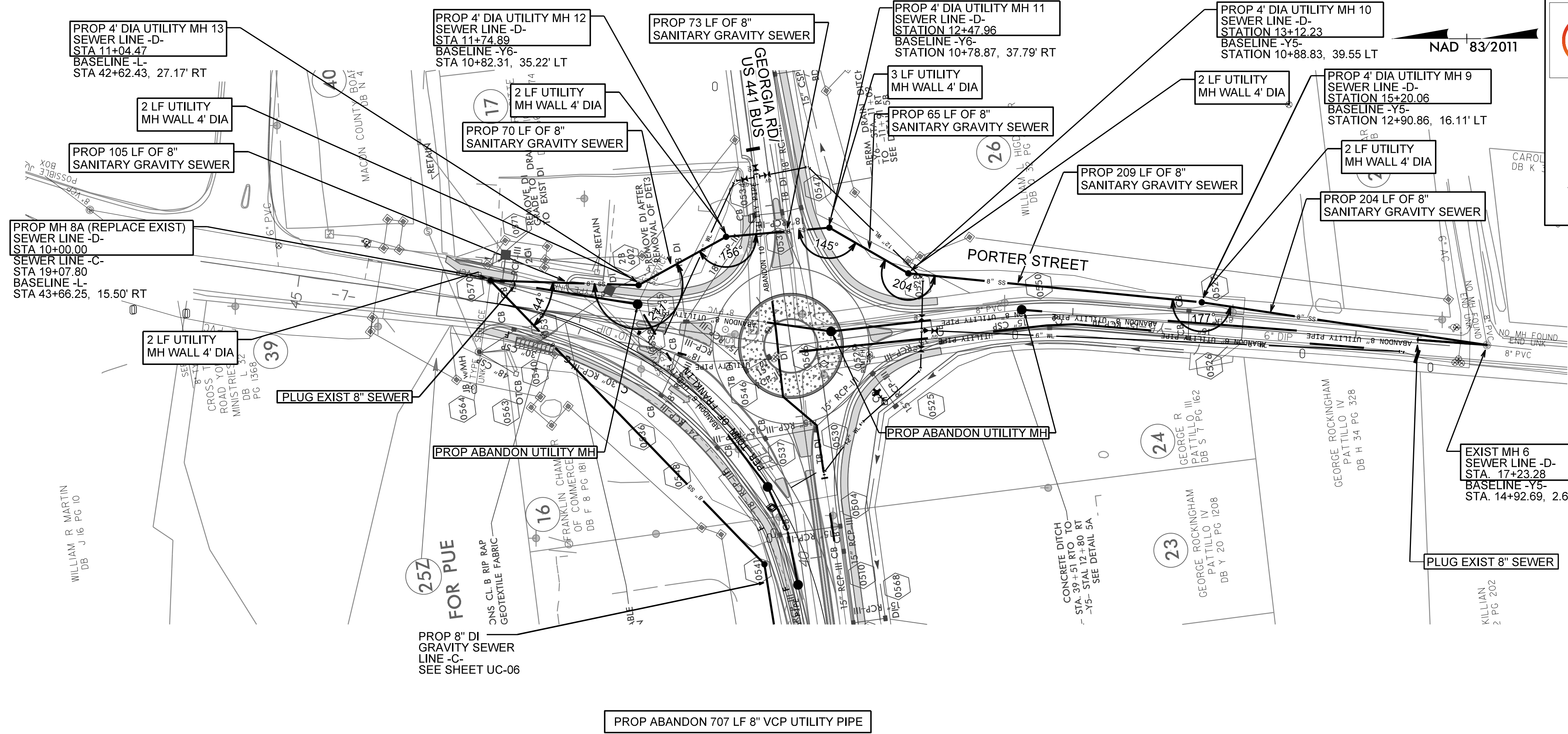
5

MICHAEL B GREGORY
 DB E 33 PG 2248



- NOTES:
1. MAINTAIN MINIMUM 24" COVER BELOW FINISHED GRADE FOR ALL SEWER LINES.
 2. PROVIDE 18" MINIMUM VERTICAL CLEARANCE WHERE PROPOSED SEWER CROSSES DRAINAGE SYSTEM.
 3. RELOCATE ALL SEWER SERVICES ON EXISTING SEWER (TO BE ABANDONED) TO NEW SEWER LINE.
 4. ABANDON SEWER LINE IN LOCATIONS SHOWN. ABANDONMENT INCLUDES ALL FITTINGS AND APPURTENANCES. ABANDONMENT OF THE SEWER LINE TO BE IN ACCORDANCE WITH THE TOWN OF FRANKLIN'S REQUIREMENTS.
 5. SET NEW MANHOLES WITHIN THE DETOUR AREA TO FINISHED GRADE AFTER THE DETOUR IS REMOVED FROM SERVICE.
 6. ALL ABANDONED LINES 8" OR LARGER FILL WITH CDF.
 7. FOR CLEANOUTS AT PARCELS 4 & 5 MAINTAIN EXISTING UPSTREAM SERVICE LINE GRADES.

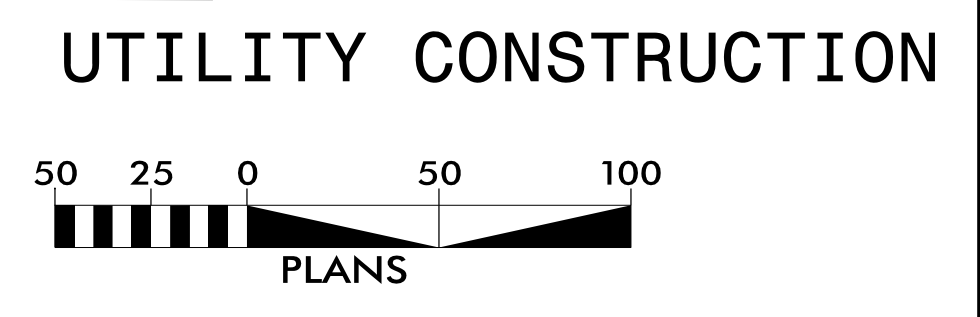
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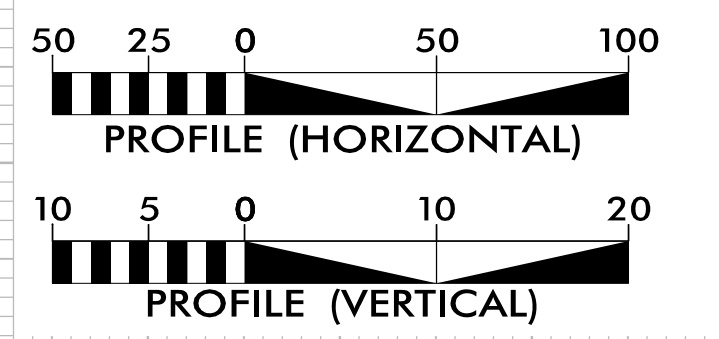
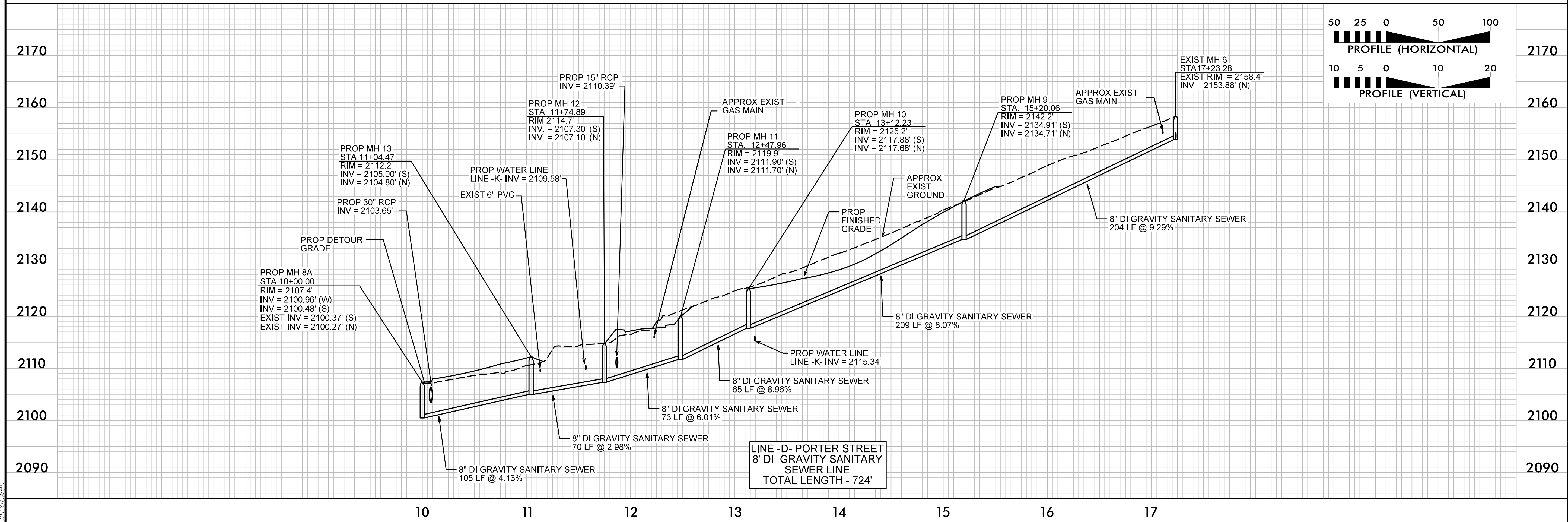
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PROJECT REFERENCE NO. U-5604	SHEET NO. UC-7
DESIGNED BY: WMH	UTILITY DESIGN ENGINEER
DRAWN BY: RGR/WMH	
CHECKED BY: MCM	
APPROVED BY:	
REVISED:	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	

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- NOTES:
1. MAINTAIN MINIMUM 24" COVER BELOW FINISHED GRADE FOR ALL SEWER LINES.
 2. PROVIDE 18" MINIMUM VERTICAL CLEARANCE WHERE PROPOSED SEWER CROSSES DRAINAGE SYSTEM.
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 5. SET NEW MANHOLES WITHIN THE DETOUR AREA TO FINISHED GRADE AFTER THE DETOUR IS REMOVED FROM SERVICE.
 6. ALL ABANDONED LINES 8" OR LARGER FILLED WITH CDF.



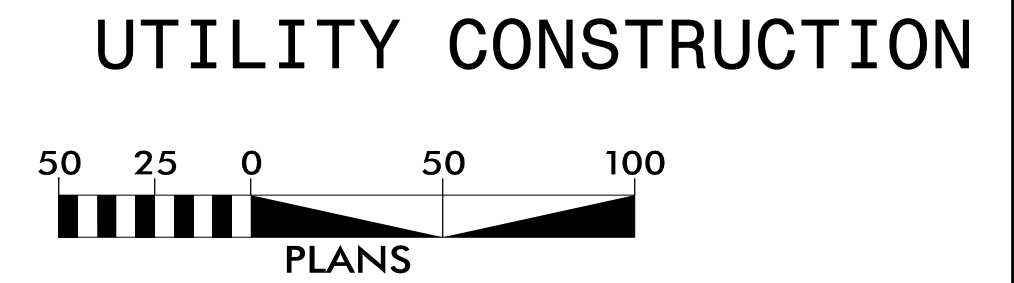
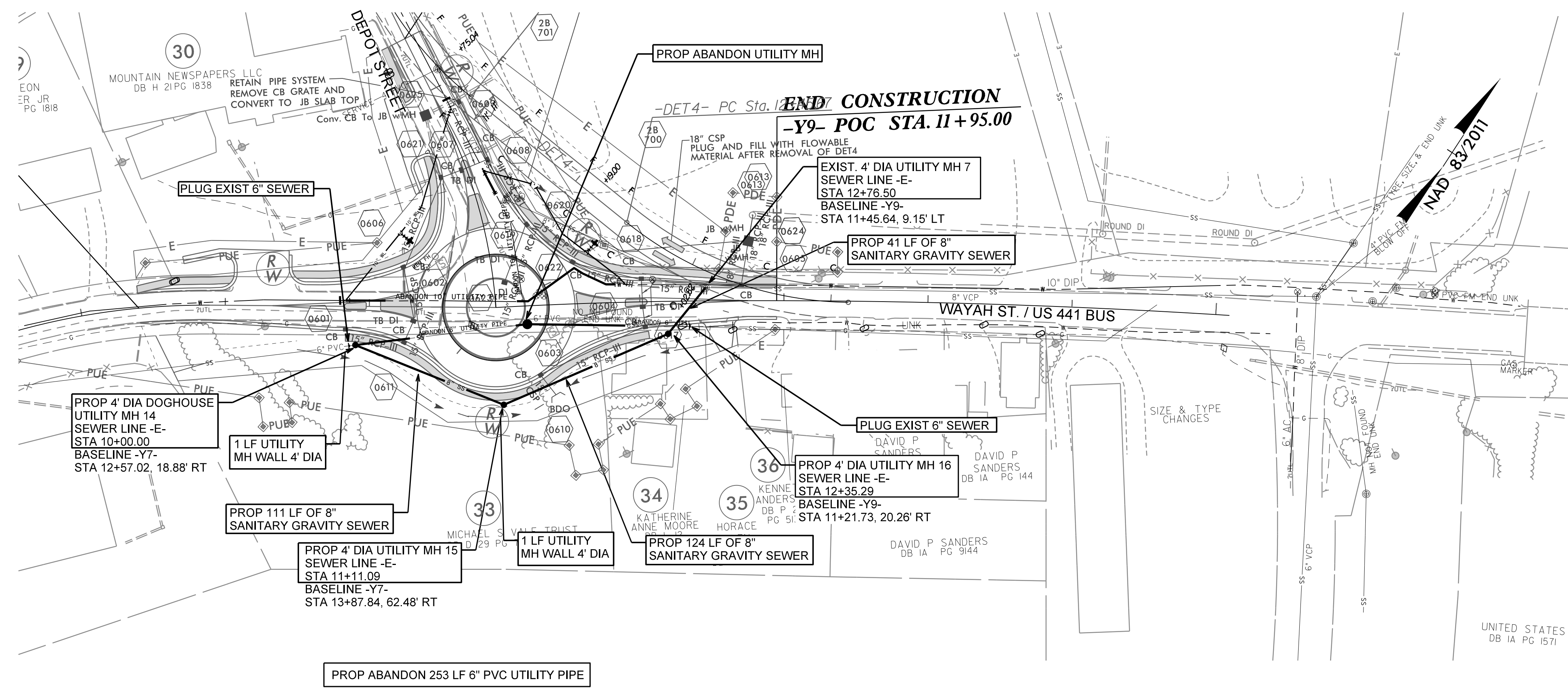
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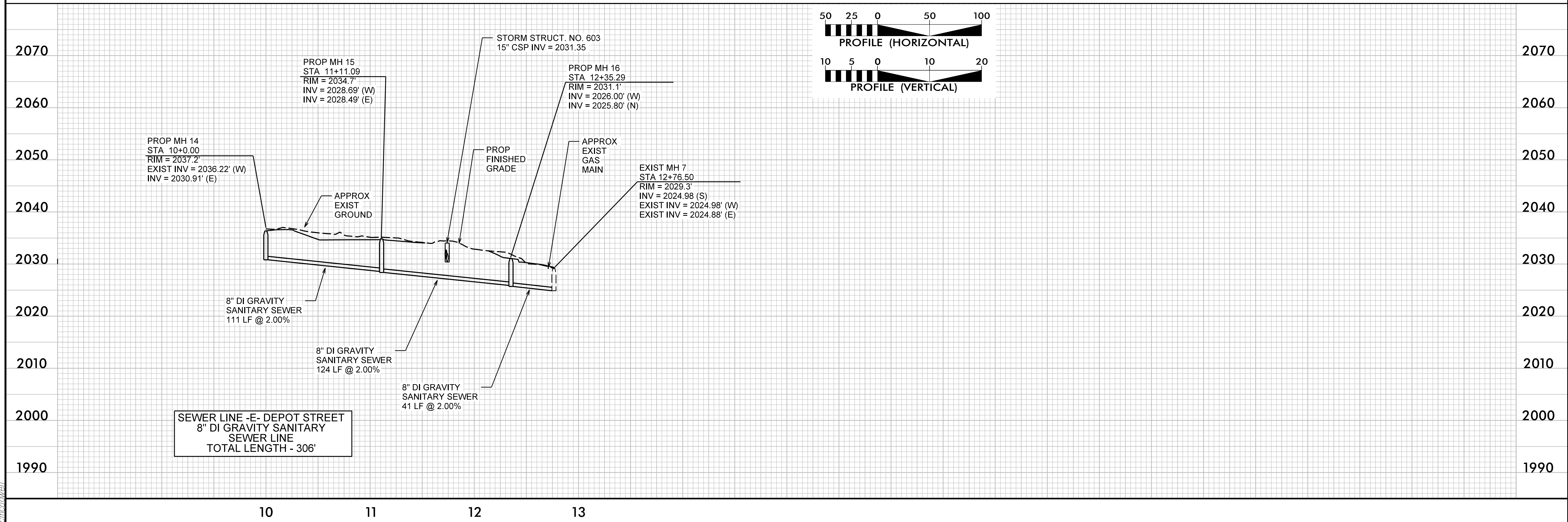
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PROJECT REFERENCE NO. U-5604	SHEET NO. UC-8
DESIGNED BY: WMH	UTILITY DESIGN ENGINEER
DRAWN BY: RGR/WMH	
CHECKED BY: MCM	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	

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- NOTES:
1. MAINTAIN MINIMUM 24" COVER BELOW FINISHED GRADE FOR ALL SEWER LINES.
 2. PROVIDE 18" MINIMUM VERTICAL CLEARANCE WHERE PROPOSED SEWER CROSSES DRAINAGE SYSTEM.
 3. RELOCATE ALL SEWER SERVICES ON EXISTING SEWER (TO BE ABANDONED) TO NEW SEWER LINE.
 4. ABANDON SEWER LINE IN LOCATIONS SHOWN. ABANDONMENT INCLUDES ALL FITTINGS AND APPURTENANCES. ABANDONMENT OF THE SEWER LINE TO BE IN ACCORDANCE WITH THE TOWN OF FRANKLIN'S REQUIREMENTS.
 5. SET NEW MANHOLES WITHIN THE DETOUR AREA TO FINISHED GRADE AFTER THE DETOUR IS REMOVED FROM SERVICE.
 6. ALL ABANDONED LINES 8" OR LARGER FILLED WITH CDF.

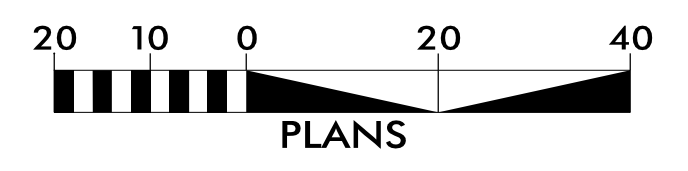


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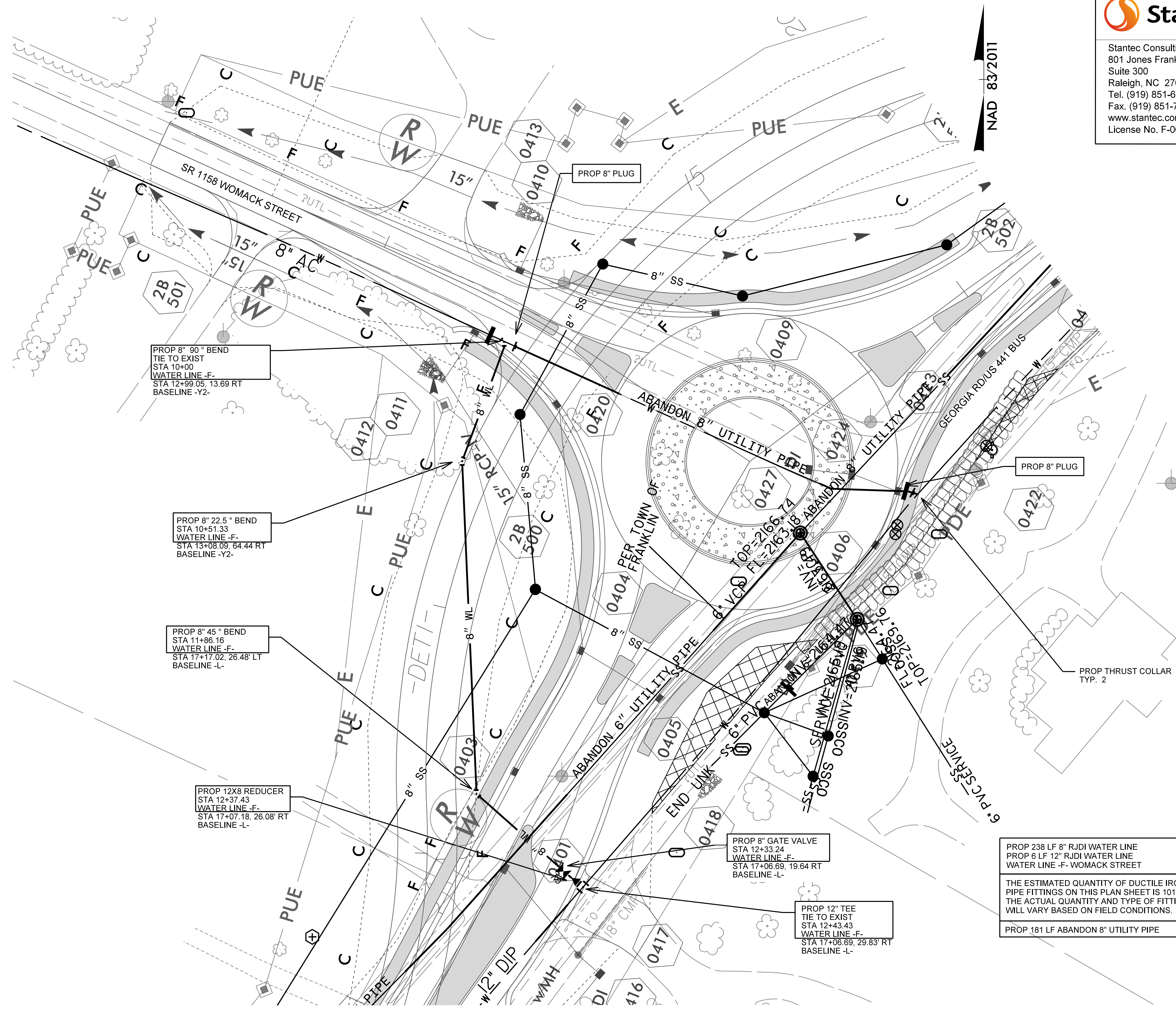
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PROJECT REFERENCE NO.	U-5604	SHEET NO.	UC-9
DESIGNED BY:	WMH	DATE:	7/6/2018
DRAWN BY:	RGR/WMH		
CHECKED BY:	MCM		
APPROVED BY:			
REVISED:			
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION			
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NOTES:

1. MAINTAIN MINIMUM 36 INCH COVER BELOW FINISHED GRADE FOR ALL PROPOSED WATER LINES.
2. ALL THE LOCATIONS WHERE PROPOSED WATER LINE CROSSES DRAINAGE SYSTEMS, PROVIDE MINIMUM 18" VERTICAL CLEARANCE.
3. ALL PROPOSED WATER LINE PIPE IS RESTRAINED JOINT DUCTILE IRON (RJD).
4. ABANDON IN PLACE ALL FITTINGS AND APPURTENANCES CONNECTED TO OR SUPPLIED BY THE DESIGNATED ABANDONED UTILITY PIPE.
5. ALL ABANDONED EXIST WATER LINE 8" OR LARGER, FILL WITH CDF.



PROP 8" 90° BEND
TIE TO EXIST
STA 10+00
WATER LINE -F-
STA 12+99.05, 13.69 RT
BASELINE -Y2-

PROP 8" 22.5° BEND
STA 10+51.33
WATER LINE -F-
STA 13+08.09, 64.44 RT
BASELINE -Y2-

PROP 8" 45° BEND
STA 11+86.16
WATER LINE -F-
STA 17+17.02, 26.48 LT
BASELINE -L-

PROP 12X8 REDUCER
STA 12+37.43
WATER LINE -F-
STA 17+07.18, 26.08 RT
BASELINE -L-

PROP 8" GATE VALVE
STA 12+33.24
WATER LINE -F-
STA 17+06.69, 19.64 RT
BASELINE -L-

PROP 12" TEE
TIE TO EXIST
STA 12+43.43
WATER LINE -F-
STA 17+06.69, 29.83 RT
BASELINE -L-

PROP 238 LF 8" RJD WATER LINE
PROP 6 LF 12" RJD WATER LINE
WATER LINE -F- WOMACK STREET

THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 1010 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

PROP 181 LF ABANDON 8" UTILITY PIPE

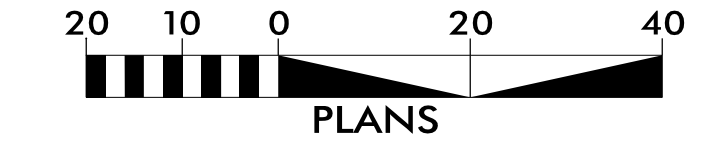
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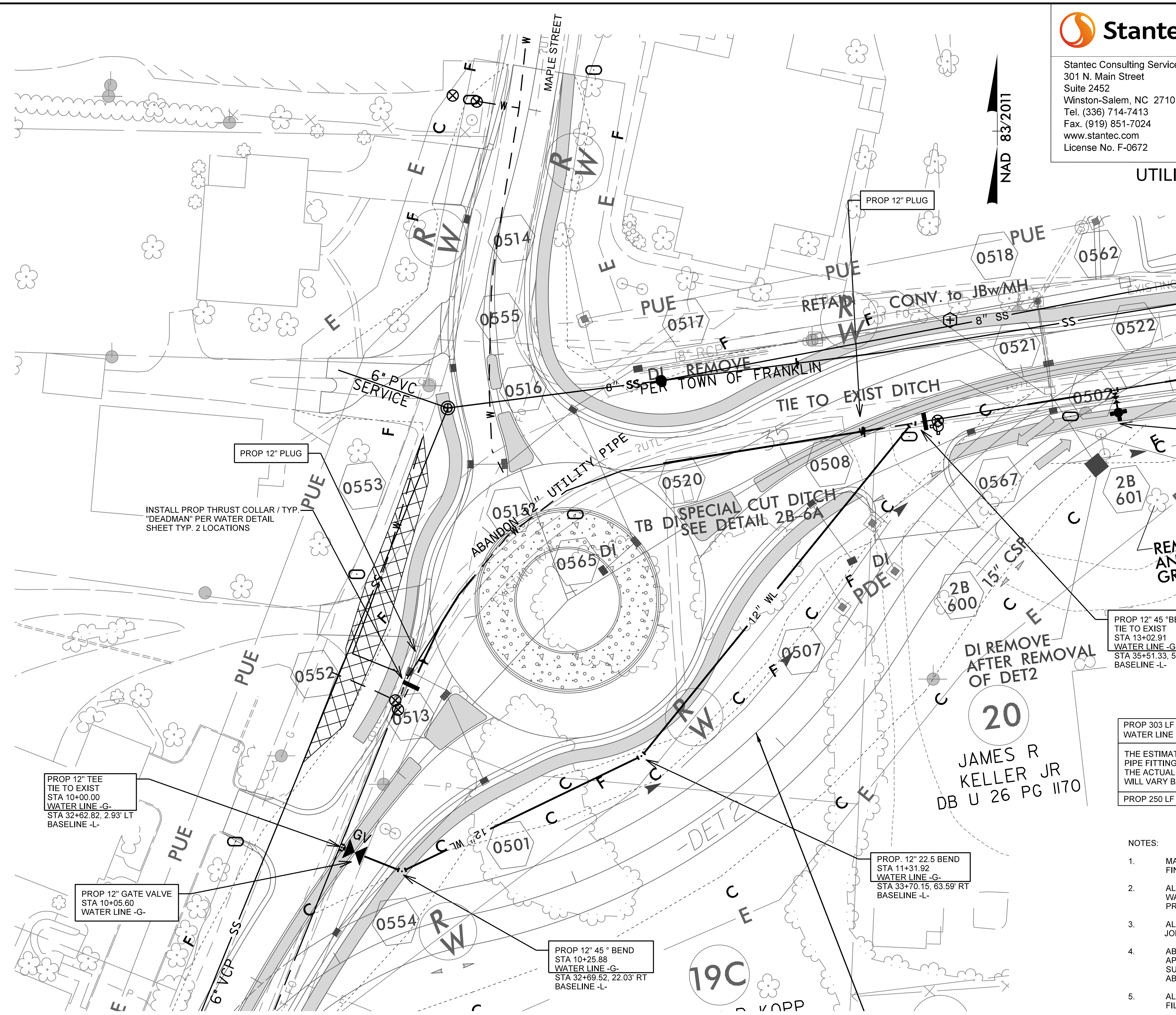
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PROJECT REFERENCE NO.	U-5604	SHEET NO.	UC-10
DESIGNED BY:	WMH	DATE:	7/6/2018
DRAWN BY:	RGR/WMH	CHECKED BY:	MCM
APPROVED BY:		REVISI	
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 33873		NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SECTION	
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UTILITY CONSTRUCTION



NAD 83/2011



INSTALL PROP THRUST COLLAR / TYP. "DEADMAN" PER WATER DETAIL SHEET TYP. 2 LOCATIONS

PROP 12" TEE
TIE TO EXIST
STA 10+00.00
WATER LINE -G-
STA 32+62.82, 2.93' LT
BASELINE -L-

PROP 12" GATE VALVE
STA 10+05.60
WATER LINE -G-

PROP 12" 45° BEND
STA 10+25.88
WATER LINE -G-
STA 32+69.52, 22.03' RT
BASELINE -L-

PROP. 12" 22.5° BEND
STA 11+31.92
WATER LINE -G-
STA 33+70.15, 63.59' RT
BASELINE -L-

PROP 12" 45° BEND
TIE TO EXIST
STA 13+02.91
WATER LINE -G-
STA 35+51.33, 5.15' RT
BASELINE -L-


PROP 303 LF 12" RJDI WATER LINE
WATER LINE -G- MAPLE STREET

THE ESTIMATED QUANTITY OF DUCTILE IRON WATER
PIPE FITTINGS ON THIS PLAN SHEET IS 1230 POUNDS.
THE ACTUAL QUANTITY AND TYPE OF FITTINGS
WILL VARY BASED ON FIELD CONDITIONS.

PROP 250 LF ABANDON 12" WATER LINE

- NOTES:
1. MAINTAIN MINIMUM 36 INCH COVER BELOW FINISHED GRADE FOR ALL PROPOSED WATER LINES.
 2. ALL THE LOCATIONS WHERE PROPOSED WATER LINE CROSSES DRAINAGE SYSTEMS, PROVIDE MINIMUM 18" VERTICAL CLEARANCE.
 3. ALL PROPOSED WATER LINE PIPE IS RESTRAINED JOINT DUCTILE IRON (RJDI).
 4. ABANDON IN PLACE ALL FITTINGS AND APPURTENANCES CONNECTED TO OR SUPPLIED BY THE DESIGNATED ABANDONED UTILITY PIPE.
 5. ALL ABANDONED WATER LINES 8" OR LARGER, FILL WITH CDF.

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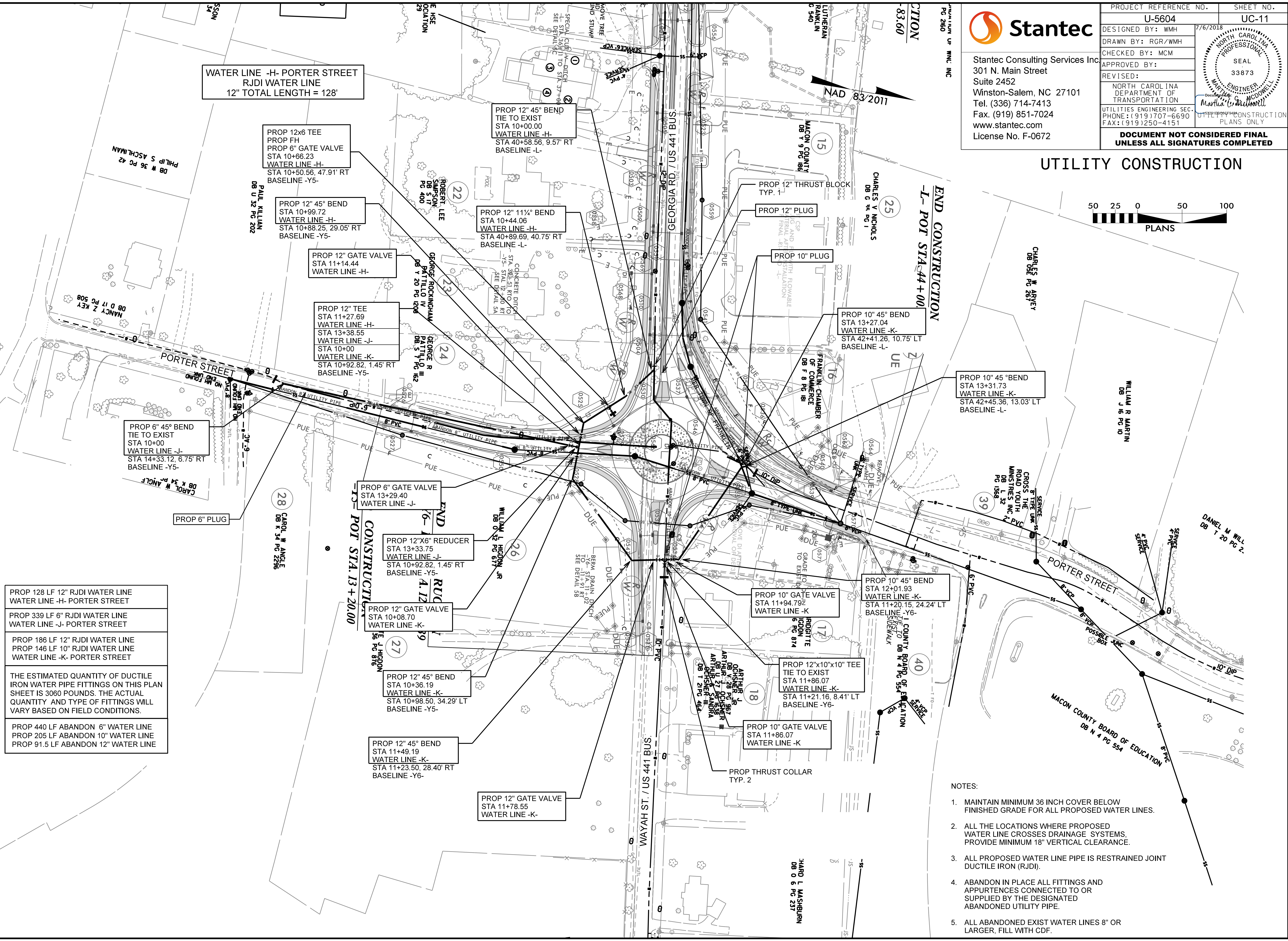
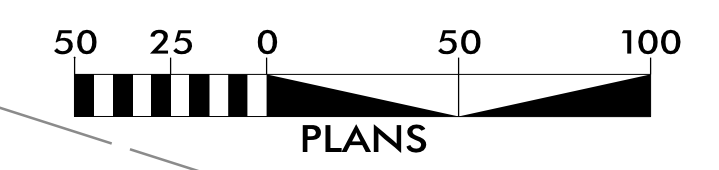


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PROJECT REFERENCE NO.	U-5604	SHEET NO.	UC-11
DESIGNED BY:	WMH	DATE	7/6/2018
DRAWN BY:	RGR/WMH		
CHECKED BY:	MCM		
APPROVED BY:			
REVISION:			
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION		SEAL	
UTILITIES ENGINEERING SEC.		33873	
PHONE: (919) 707-6690		MAR 16 2018	
FAX: (919) 250-4151		MAR 16 2018	

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UTILITY CONSTRUCTION



- PROP 128 LF 12" RJD WATER LINE WATER LINE -H- PORTER STREET
- PROP 339 LF 6" RJD WATER LINE WATER LINE -J- PORTER STREET
- PROP 186 LF 12" RJD WATER LINE WATER LINE -K- PORTER STREET
- PROP 146 LF 10" RJD WATER LINE WATER LINE -K- PORTER STREET
- THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 3060 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.
- PROP 440 LF ABANDON 6" WATER LINE
- PROP 205 LF ABANDON 10" WATER LINE
- PROP 91.5 LF ABANDON 12" WATER LINE

- NOTES:
1. MAINTAIN MINIMUM 36 INCH COVER BELOW FINISHED GRADE FOR ALL PROPOSED WATER LINES.
 2. ALL THE LOCATIONS WHERE PROPOSED WATER LINE CROSSES DRAINAGE SYSTEMS, PROVIDE MINIMUM 18" VERTICAL CLEARANCE.
 3. ALL PROPOSED WATER LINE PIPE IS RESTRAINED JOINT DUCTILE IRON (RJD).
 4. ABANDON IN PLACE ALL FITTINGS AND APPURTENANCES CONNECTED TO OR SUPPLIED BY THE DESIGNATED ABANDONED UTILITY PIPE.
 5. ALL ABANDONED EXIST WATER LINES 8" OR LARGER, FILL WITH CDF.

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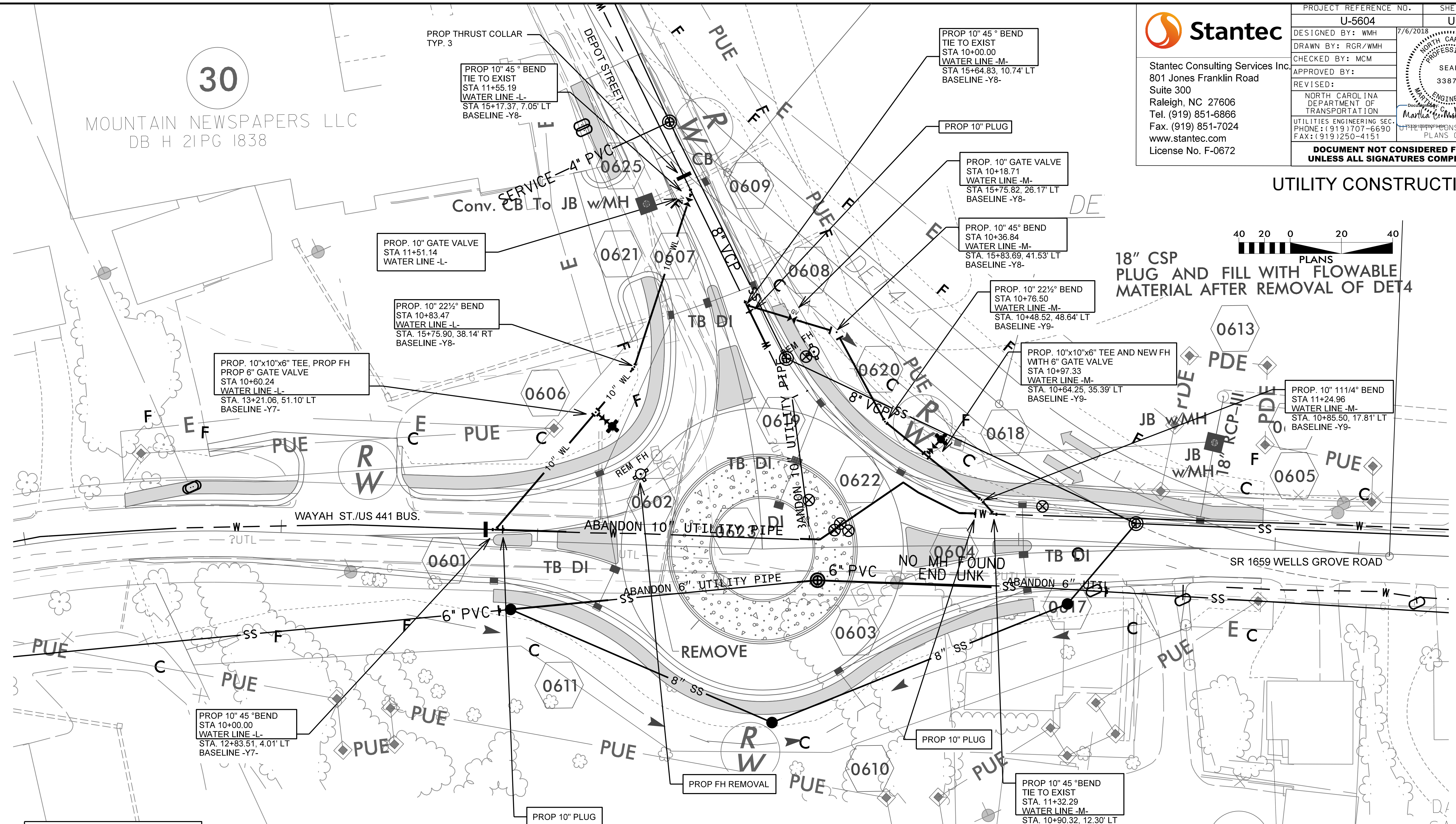
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PROJECT REFERENCE NO.	U-5604	SHEET NO.	UC-12
DESIGNED BY:	WMH	DATE:	7/6/2018
DRAWN BY:	RGR/WMH		
CHECKED BY:	MCM		
APPROVED BY:			
REVISED:			
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION		SEAL 33873	
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UTILITY CONSTRUCTION



18" CSP
PLUG AND FILL WITH FLOWABLE
MATERIAL AFTER REMOVAL OF DET



PROP 156 LF 10" RDI WATER LINE WATER LINE -L- DEPOT STREET
PROP 133 LF 10" RDI WATER LINE WATER LINE -M- DEPOT STREET
THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 1950 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.
PROP 301 LF ABANDON 10" WATER LINE

- NOTES:
1. MAINTAIN MINIMUM 36 INCH COVER BELOW FINISHED GRADE FOR ALL PROPOSED WATER LINES.
 2. ALL THE LOCATIONS WHERE PROPOSED WATER LINE CROSSES DRAINAGE SYSTEMS, PROVIDE MINIMUM 18" VERTICAL CLEARANCE.
 3. ALL PROPOSED WATER LINE PIPE IS RESTRAINED JOINT DUCTILE IRON (RDI).
 4. ABANDON IN PLACE ALL FITTINGS AND APPURTENANCES CONNECTED TO OR SUPPLIED BY THE DESIGNATED ABANDONED UTILITY PIPE.
 5. ALL ABANDONED EXIST WATER LINES 8" OR LARGER FILL WITH CDF.

33
MICHAEL S VALE TRUST
DB D 29 PG 793

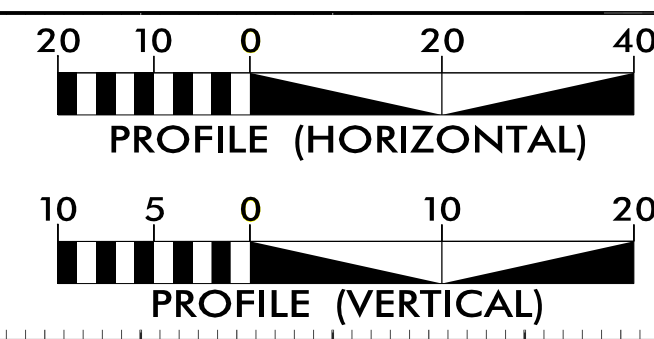
34
KATHERINE ANNE MOORE
DB L 12 PG 149

35
HORACE ALLEN HURST
DB J 7 PG III

36
KENNETH ANDERSON
DB P 28 PG 513

30
MOUNTAIN NEWSPAPERS LLC
DB H 21PG 1838

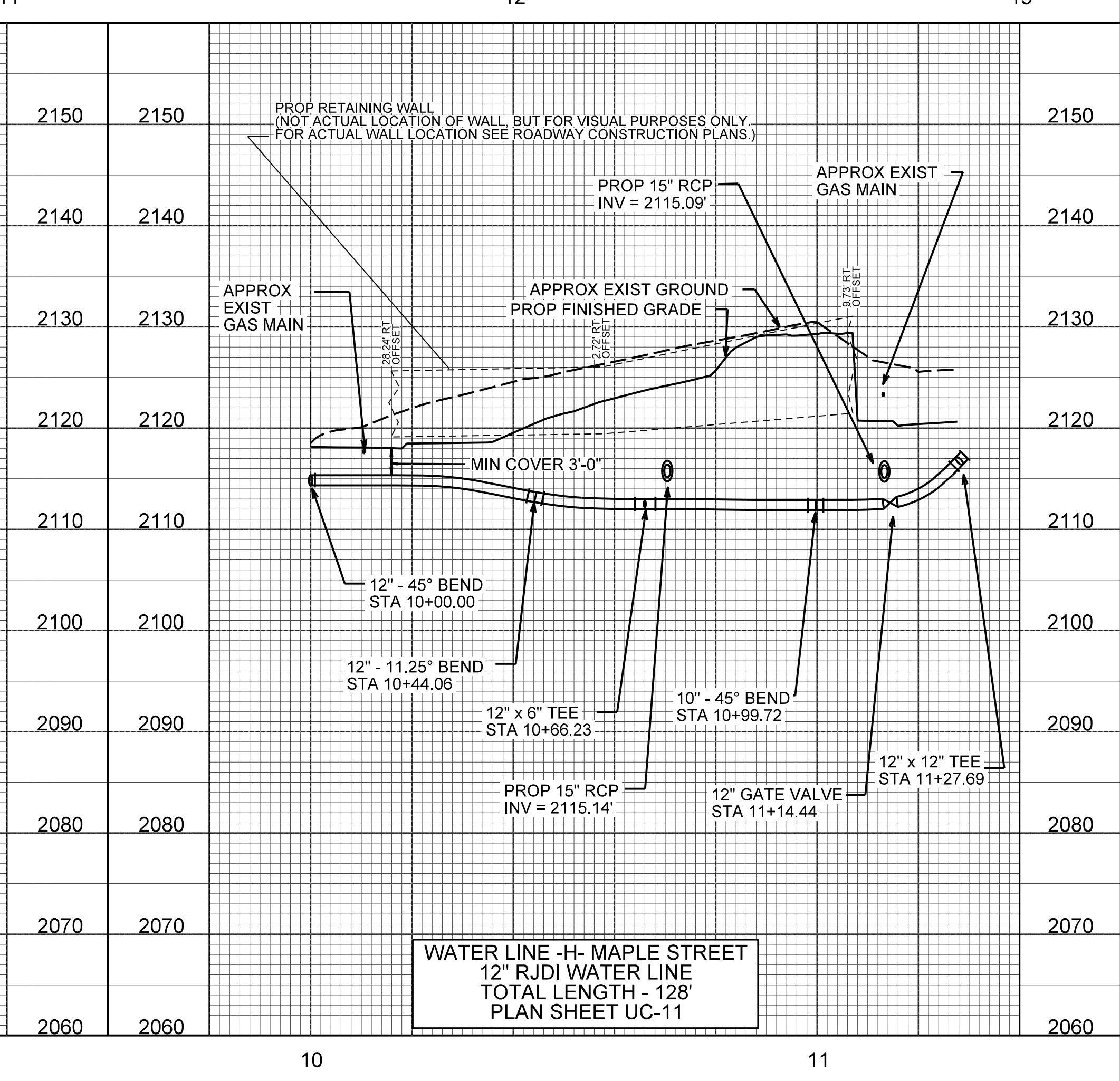
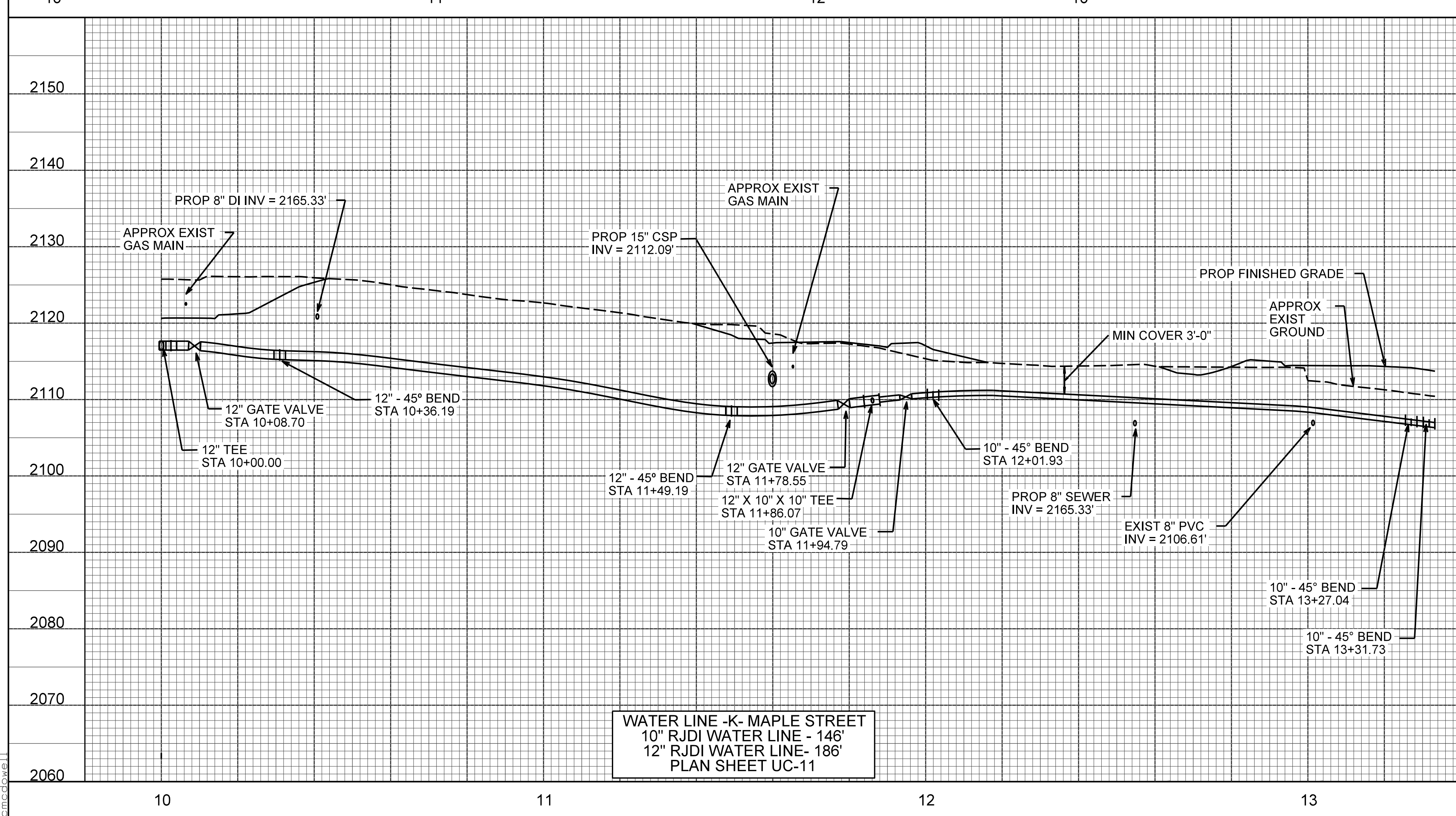
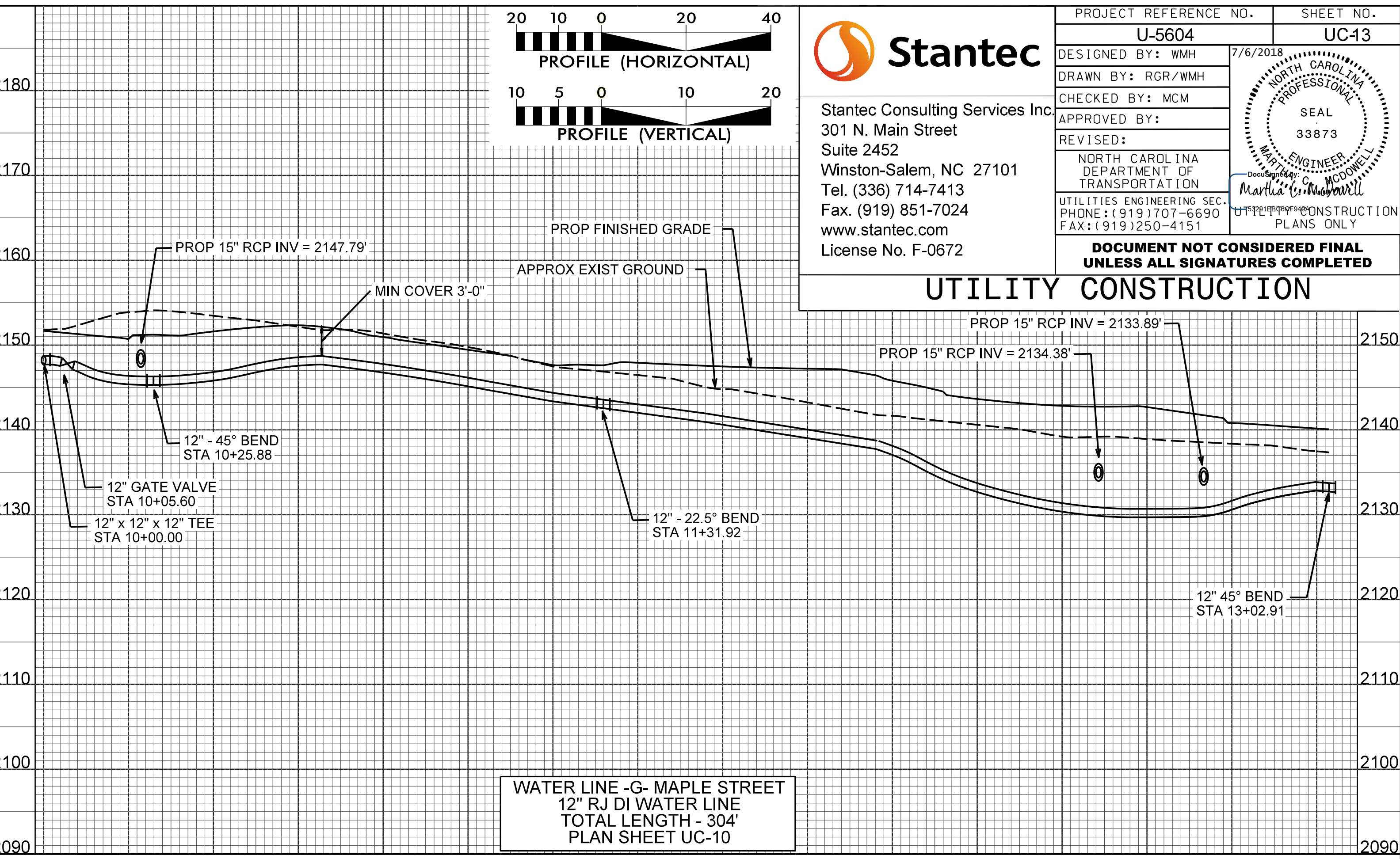
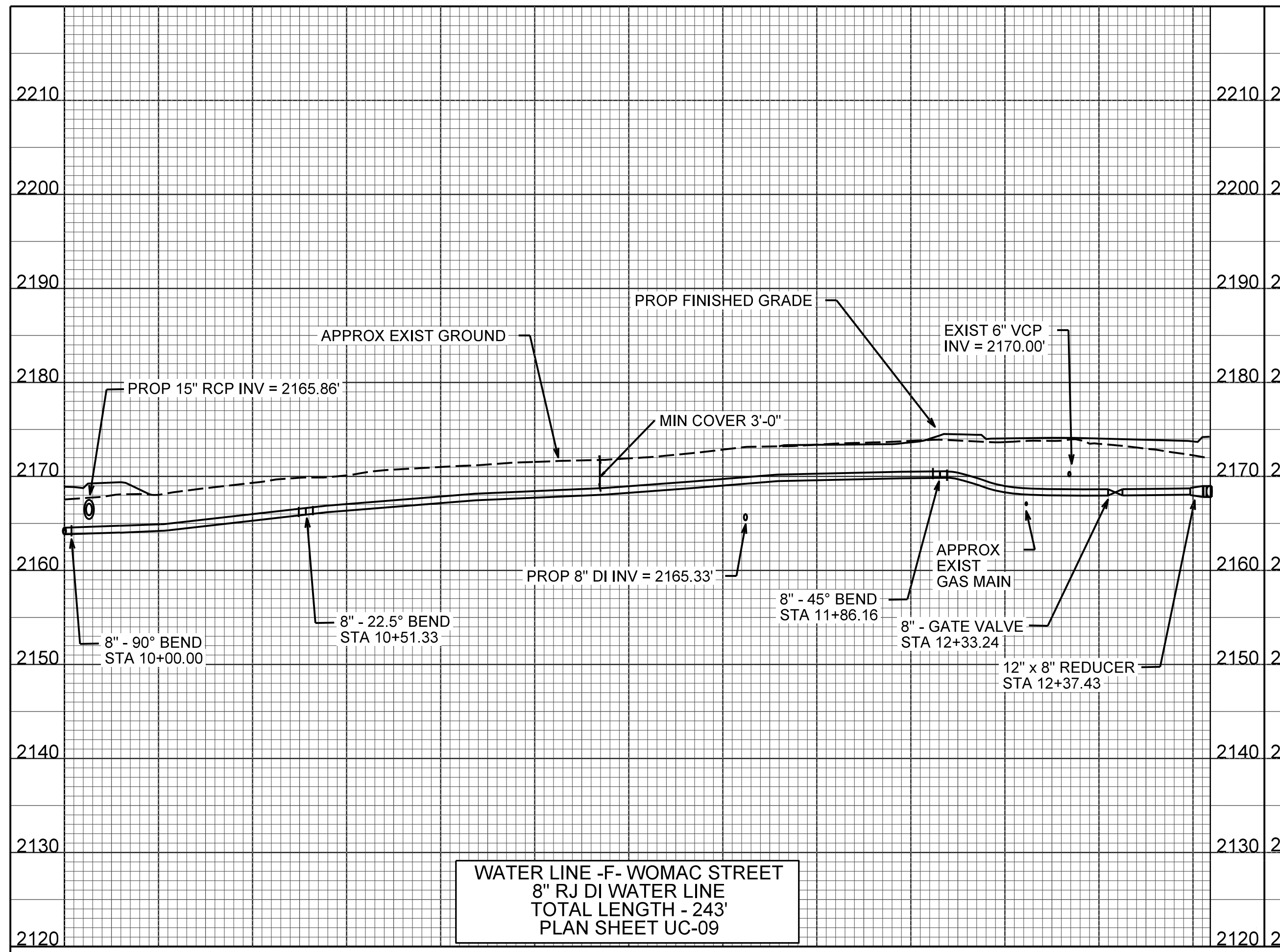
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Stantec
 Stantec Consulting Services Inc.
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 www.stantec.com
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PROJECT REFERENCE NO. U-5604	SHEET NO. UC-13
DESIGNED BY: WMH	7/6/2018
DRAWN BY: RGR/WMH	
CHECKED BY: MCM	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SECTION PHONE: (919) 707-6690 FAX: (919) 250-4151 UTILITY CONSTRUCTION PLANS ONLY	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

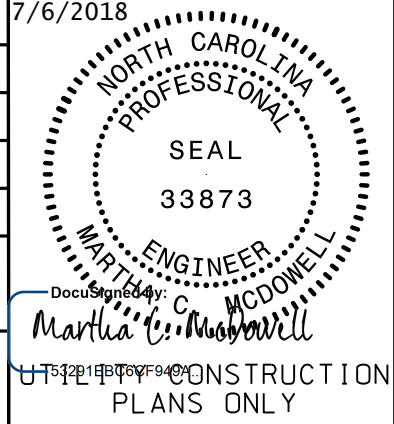
UTILITY CONSTRUCTION



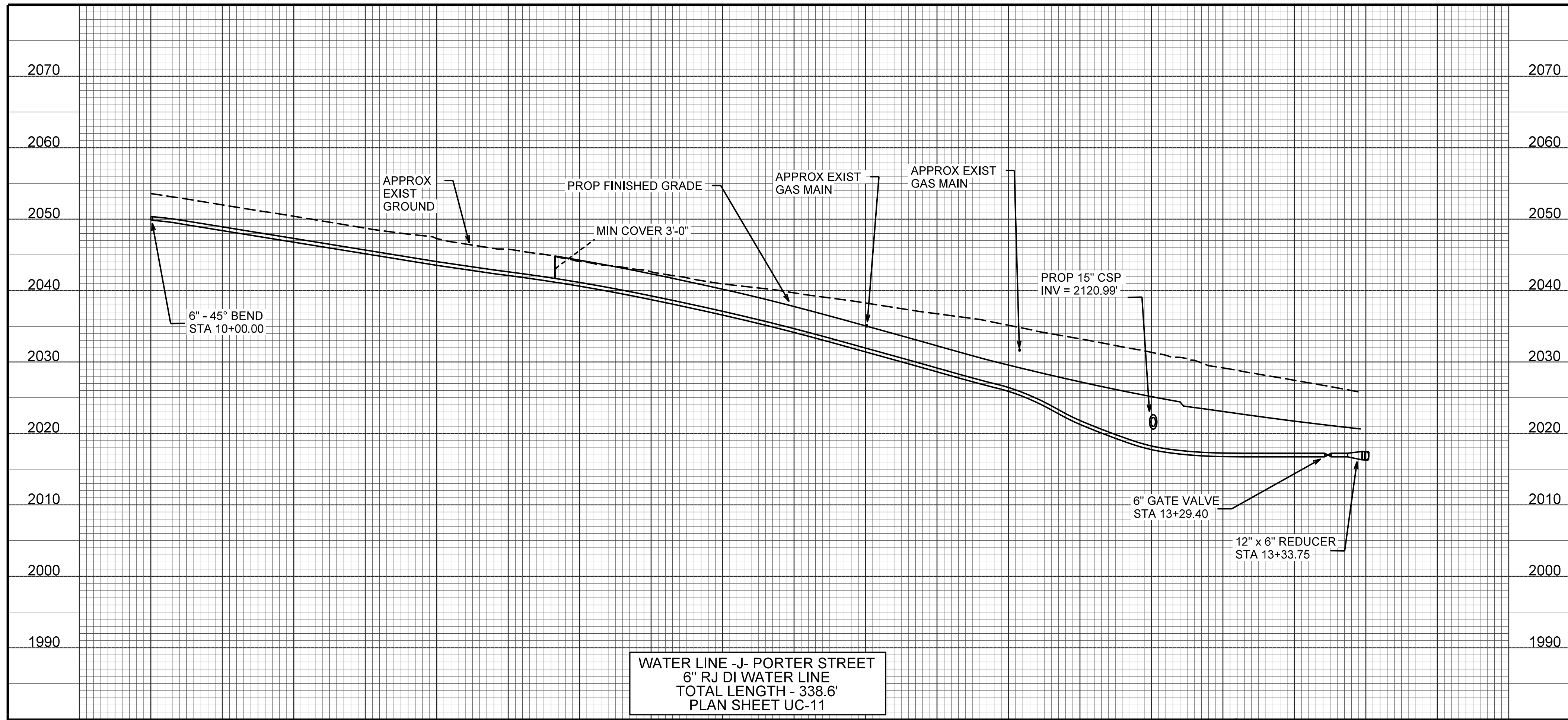
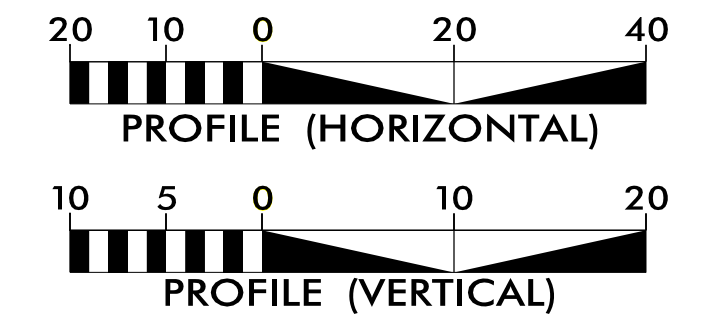
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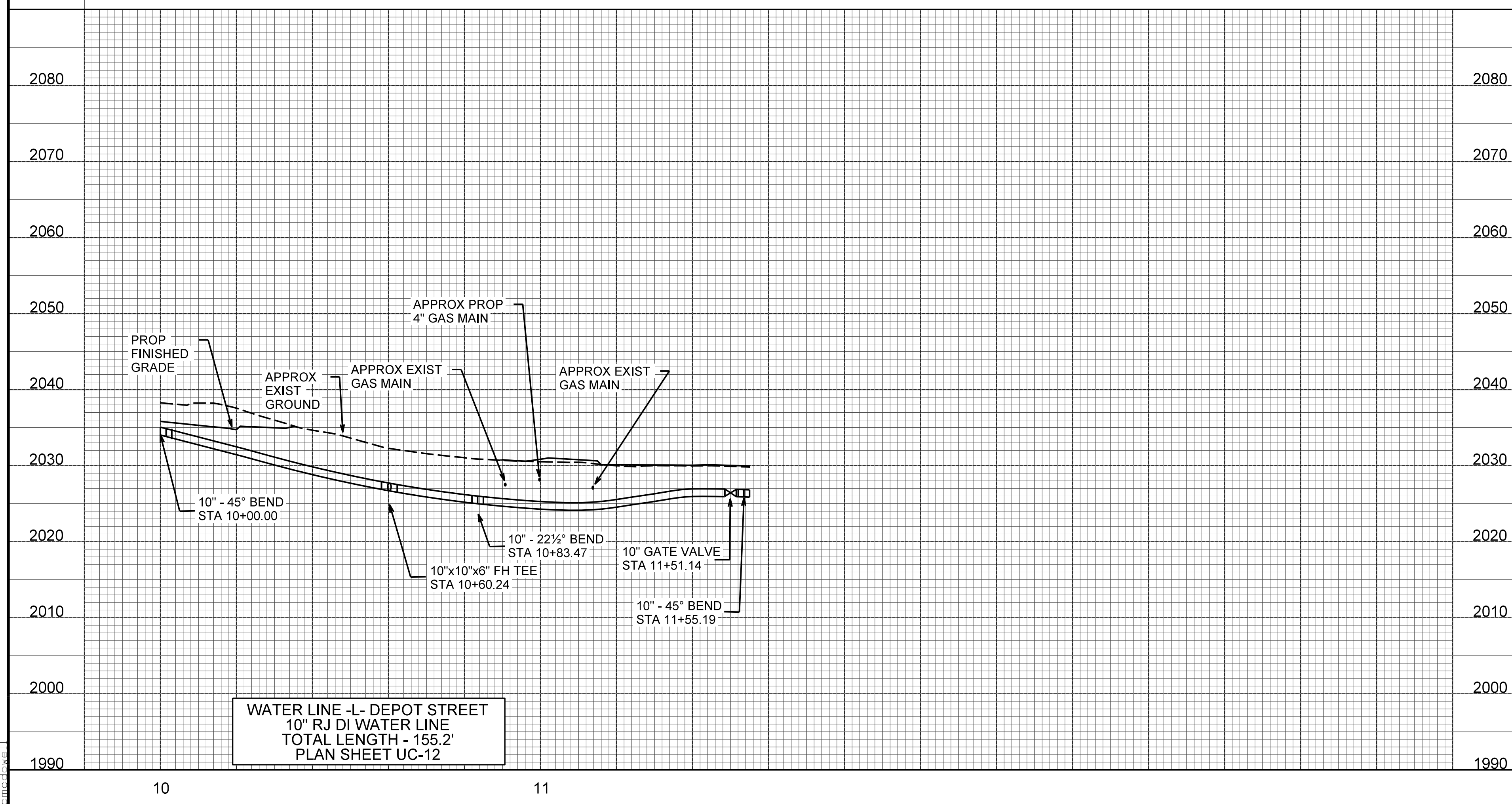
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PROJECT REFERENCE NO.	U-5604	SHEET NO.	UC-14
DESIGNED BY:	RGR/WMH	7/6/2018	
DRAWN BY:	RGR/WMH		
CHECKED BY:	MCM		
APPROVED BY:			
REVISID:			
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SECTION PHONE: (919) 707-6690 FAX: (919) 250-4151			
			
<p>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</p>			

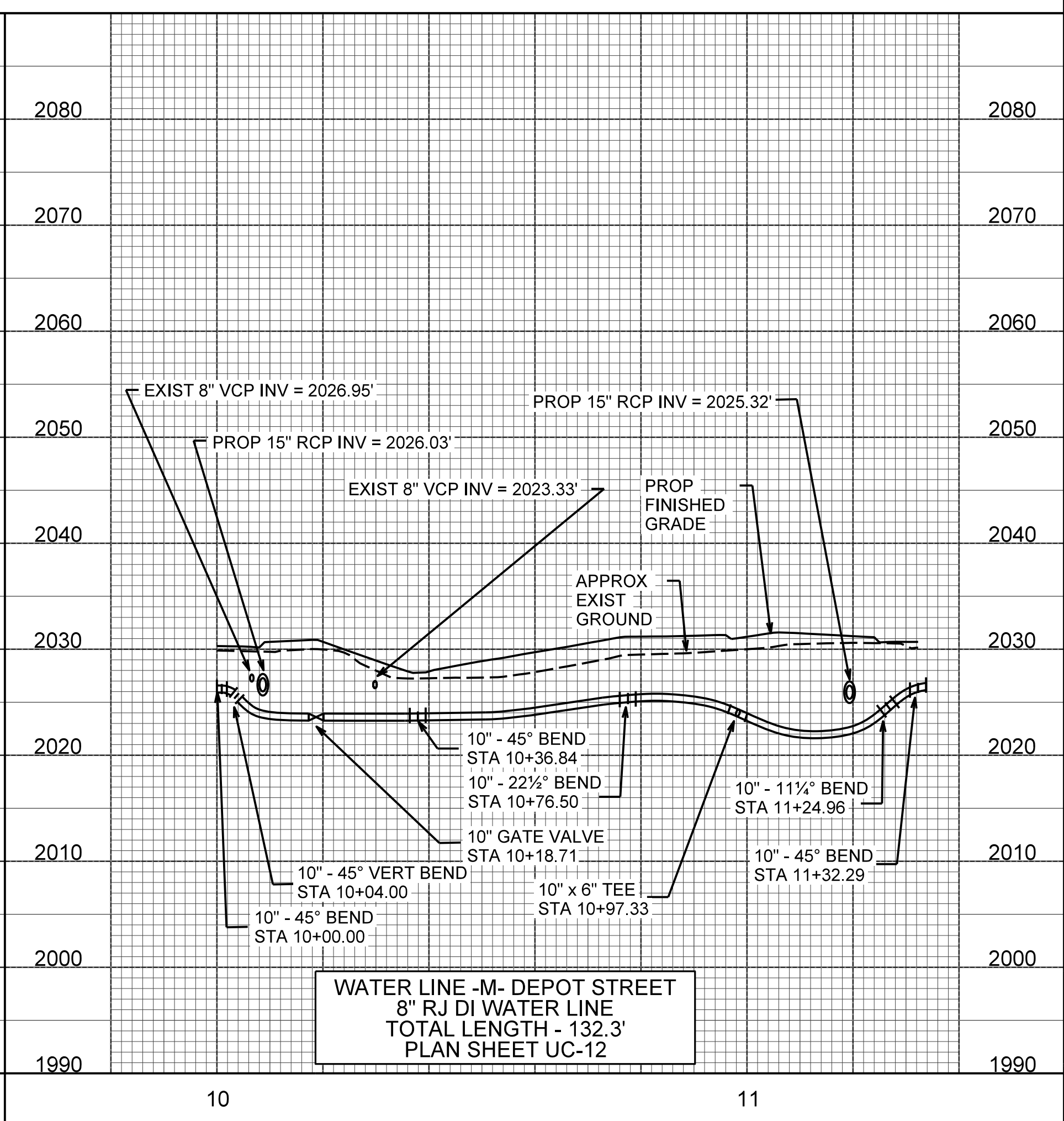
UTILITY CONSTRUCTION



WATER LINE -J- PORTER STREET
6" RJ DI WATER LINE
TOTAL LENGTH - 338.6'
PLAN SHEET UC-11



WATER LINE -L- DEPOT STREET
10" RJ DI WATER LINE
TOTAL LENGTH - 155.2'
PLAN SHEET UC-12



WATER LINE -M- DEPOT STREET
8" RJ DI WATER LINE
TOTAL LENGTH - 132.3'
PLAN SHEET UC-12

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