

TIP PROJECT: R-2233BB

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-2233BB	UC-1	48

STATE OF NORTH CAROLINA

DIVISION OF HIGHWAYS

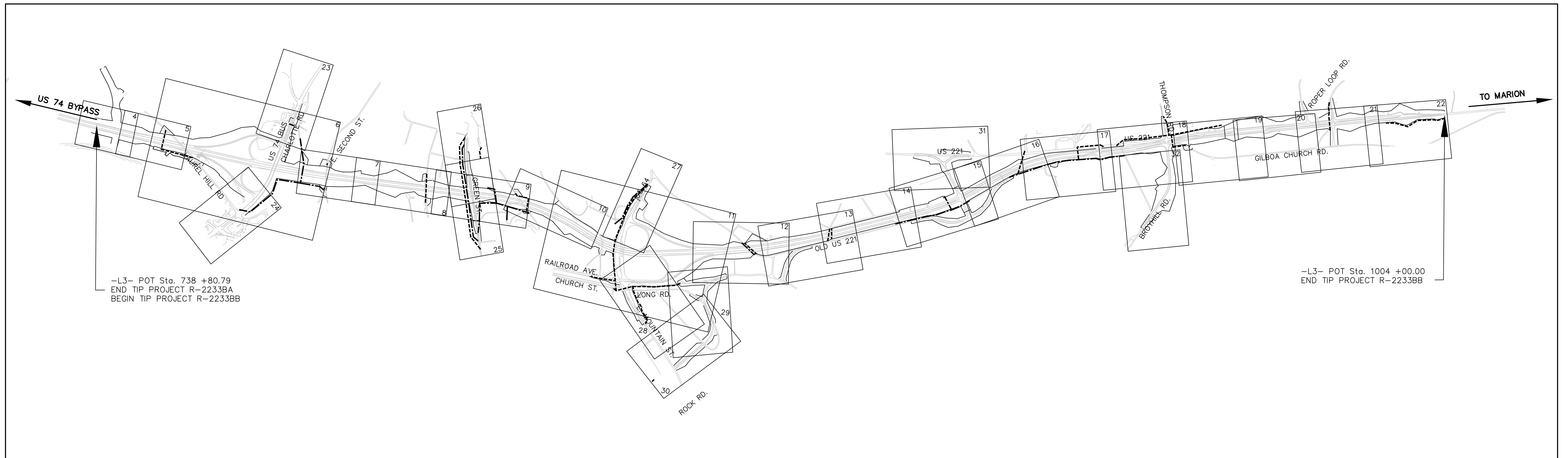
RUTHERFORD COUNTY

TOWN OF RUTHERFORDTON	-----
BRWA	-----

LOCATION: US 221 SOUTH OF US 74 BUSINESS (CHARLOTTE ROAD) TO NORTH OF SR 1366 (ROPER LOOP ROAD)

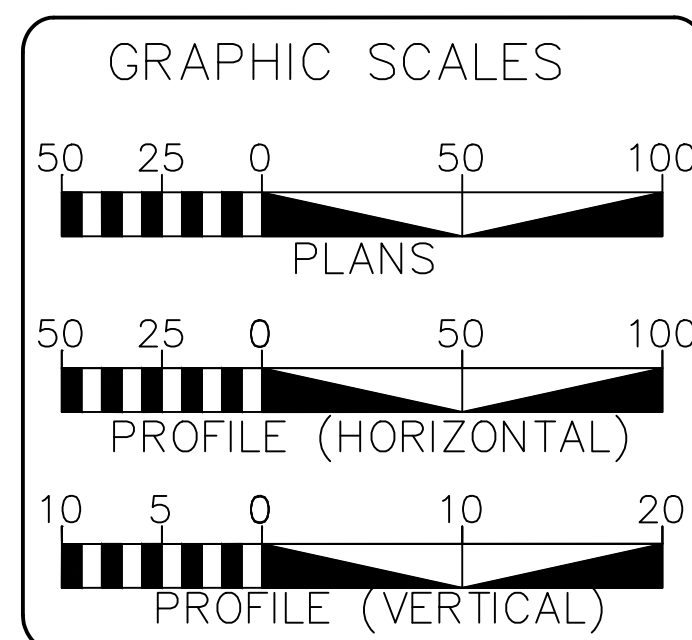
TYPE OF WORK: WATER AND SEWER RELOCATION

NAD 83 / NA2011



-L3- POT Sta. 738 +80.79
END TIP PROJECT R-2233BA
BEGIN TIP PROJECT R-2233BB

-L3- POT Sta. 1004 +00.00
END TIP PROJECT R-2233BB



SHEET NO:	DISCRIPTION:
UC-1	TITLE SHEET
UC-2	UTILITY SYMBOLOLOGY
UC-3	NOTES
UC-3A THRU 3B	DETAILS
UC-5 THRU UC-32	UTILITY CONSTRUCTION
UC-32 THRU UC-38	UTILITY PROFILE

WATER AND SEWER OWNERS ON PROJECT

(A) SANITARY SEWER: TOWN OF RUTHERFORDTON
(B) WATER: BROAD RIVER WATER AUTHORITY

PREPARED IN THE OFFICE OF

Odom Engineering PLLC
169 Oak Street, Forest City, N.C. 28043
ph: 828.247.4495 fax: 828.247.4498
NC Firm#: P-0880

DAVID ODOM CONSULTANT CONTACT #1
LARISSA COLES CONSULTANT CONTACT #2
SCOTT ROACH 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
JONG-TAE YOON UTILITIES ENGINEER
AMY DUPREE YORK UTILITIES AREA COORDINATOR
STEVE C. TREXLER UTILITIES COORDINATOR

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

UTILITIES PLAN SHEET SYMBOLS

PROPOSED WATER SYMBOLS

Water Line (Sized as Shown)	_____
11\+00BC Degree Bend	_____++
22\+00BD Degree Bend	_____+X
45 Degree Bend	_____+X
90 Degree Bend	_____+†
Plug	_____⊥
Tee	_____+†
Cross	_____+†
Reducer	_____▶
Gate Valve	_____GV
Butterfly Valve	_____BV
Tapping Valve	_____TGV
Line Stop	_____LS
Line Stop with Bypass	_____LS/BP
Blow Off	_____BO
Fire Hydrant	_____PFH
Relocate Fire Hydrant	_____RFH
Remove Fire Hydrant	_____REM FH
Water Meter	_____PWM
Relocate Water Meter	_____RWM
Remove Water Meter	_____REM WM
Water Pump Station	_____PS(W)
RPZ Backflow Preventer	_____RPZ
DCV Backflow Preventer	_____DBP
Relocate RPZ Backflow Preventer	_____RRPZ
Relocate DCV Backflow Preventer	_____RDBP

PROPOSED SEWER SYMBOLS

Gravity Sewer Line (Sized as Shown)	_____
Force Main Sewer Line (Sized as Shown)	_____
Manhole (Sized per Note)	_____o
Sewer Pump Station	_____PS(SS)

PROPOSED MISCELLANOUS UTILITIES SYMBOLS

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

Thrust Block	_____□
Air Release Valve	_____AR
Utility Vault	_____UV
Concrete Pier	_____CP
Steel Pier	_____SP
Plan Note	_____
Pay Item Note	_____

NOTE
PAY ITEM

EXISTING UTILITIES SYMBOLS

Power Pole	_____o
Telephone Pole	_____o
Joint Use Pole	_____o
Utility Pole	_____o
Utility Pole with Base	_____□
H-Frame Pole	_____o-o
Power Transmission Line Tower	_____┆
Water Manhole	_____o
Power Manhole	_____o
Telephone Manhole	_____o
Sanitary Sewer Manhole	_____o
Hand Hole for Cable	_____□
Power Transformer	_____□
Telephone Pedestal	_____□
CATV Pedestal	_____□
Gas Valve	_____◇
Gas Meter	_____◇
Located Miscellaneous Utility Object	_____o
Abandoned According to Utility Records	_____AATUR
End of Information	_____E.O.I.

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

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

UTILITY CONSTRUCTION

PROJECT REFERENCE NO. R-2233BB	SHEET NO. UC-3
DESIGNED BY: .	
DRAWN BY: .	
CHECKED BY: .	
APPROVED BY: .	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
UTILITY CONSTRUCTION PLANS ONLY	

GENERAL NOTES:

1. THE PROPOSED UTILITY CONSTRUCTION SHALL MEET THE APPLICABLE REQUIREMENTS OF THE NC DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES" DATED JANUARY 2012.
2. THE EXISTING UTILITIES BELONG TO _____.
3. ALL WATER LINES TO BE INSTALLED WITHIN 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 TO BE INSTALLED WITHIN COMPLIANCE OF THE RULES AND REGULATIONS OF THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL 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 OWNERS' REPRESENTATIVES INFORMED OF WORK PROGRESS AND PROVIDE OPPORTUNITY FOR INSPECTION OF CONSTRUCTION AND TESTING.

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

PROJECT SPECIFIC NOTES:

1. PROPOSED WATER LINE FROM -X- LINE STATION XX+XX TO -X- LINE STATION XX+XX SHALL BE D.I.R.J. (DUCTILE IRON RESTRAINED JOINT) PIPE. (EXAMPLE)
2. NITRILE GASKETS SHALL BE USED FROM -X- LINE STATION XX+XX TO -X- LINE STATION XX+XX DUE TO PETROLEUM CONTAMINATED SOILS. (EXAMPLE)
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. IF HDPE PIPE IS INSTALLED BY DIRECTIONAL DRILL. IT SHALL BE FILLED WITH WATER AND NOT BE CONNECTED TO ANY OTHER PIPE OR FITTINGS FOR ONE WEEK FROM THE TIME OF INSTALLATION.

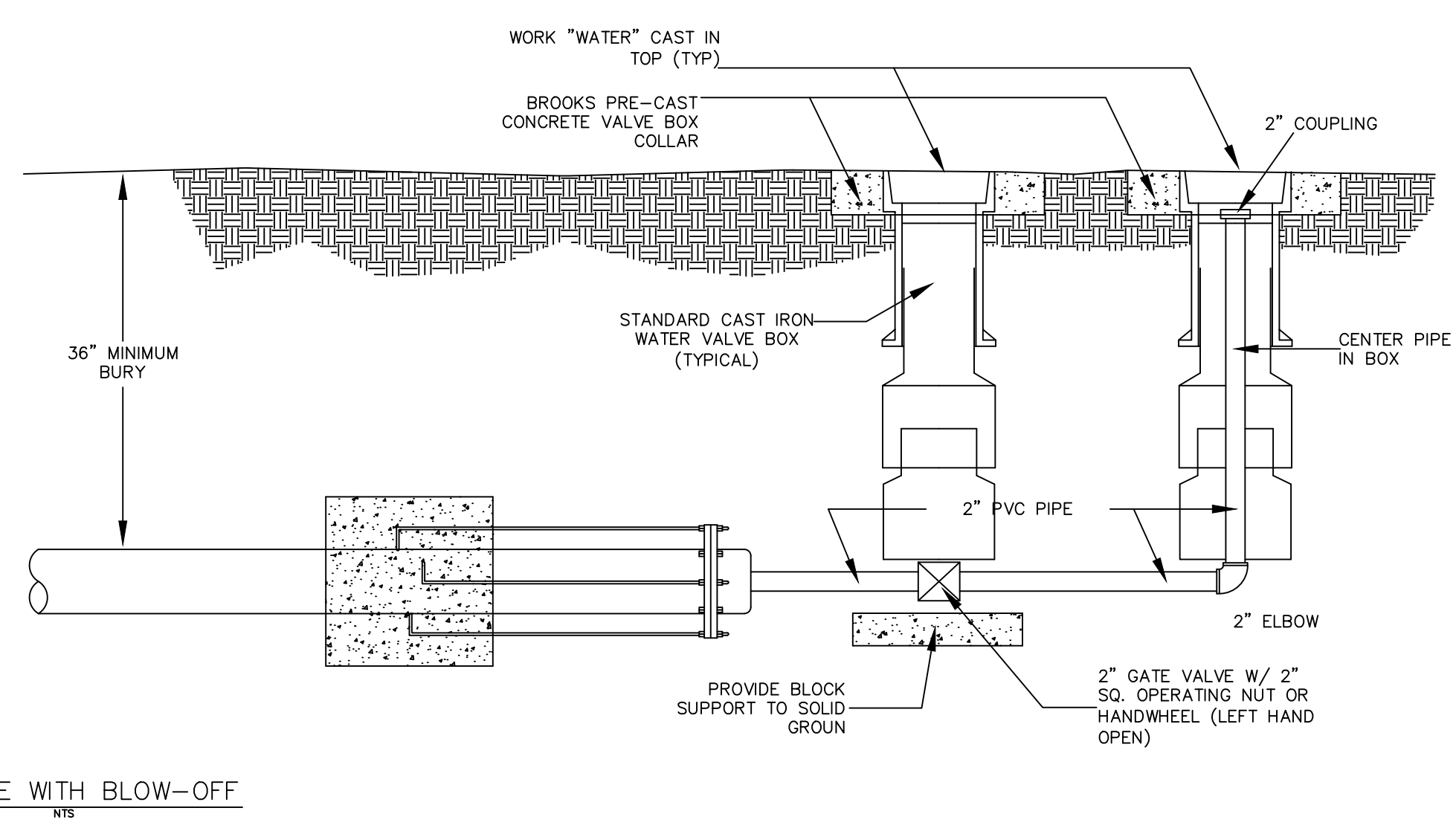
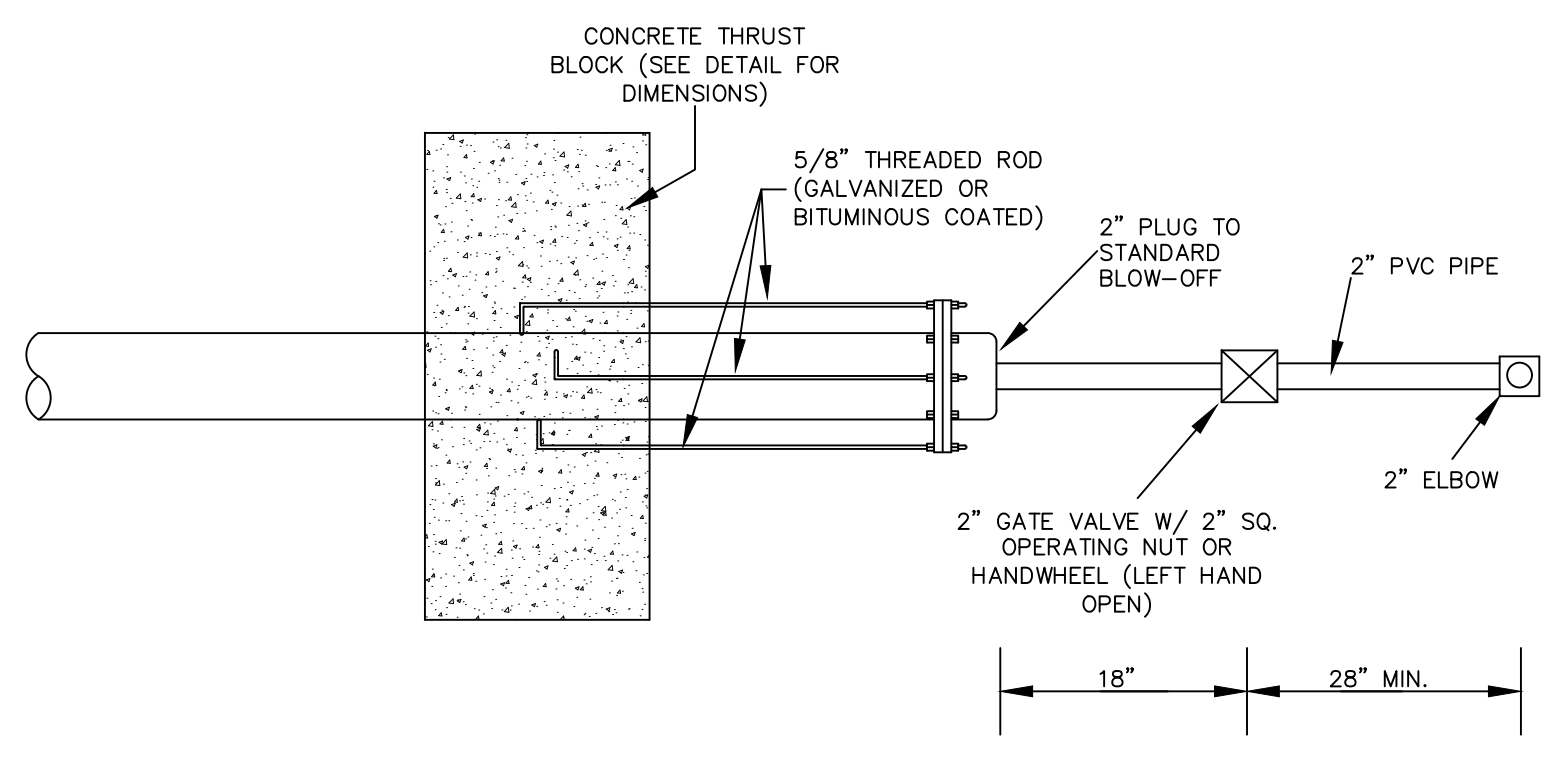
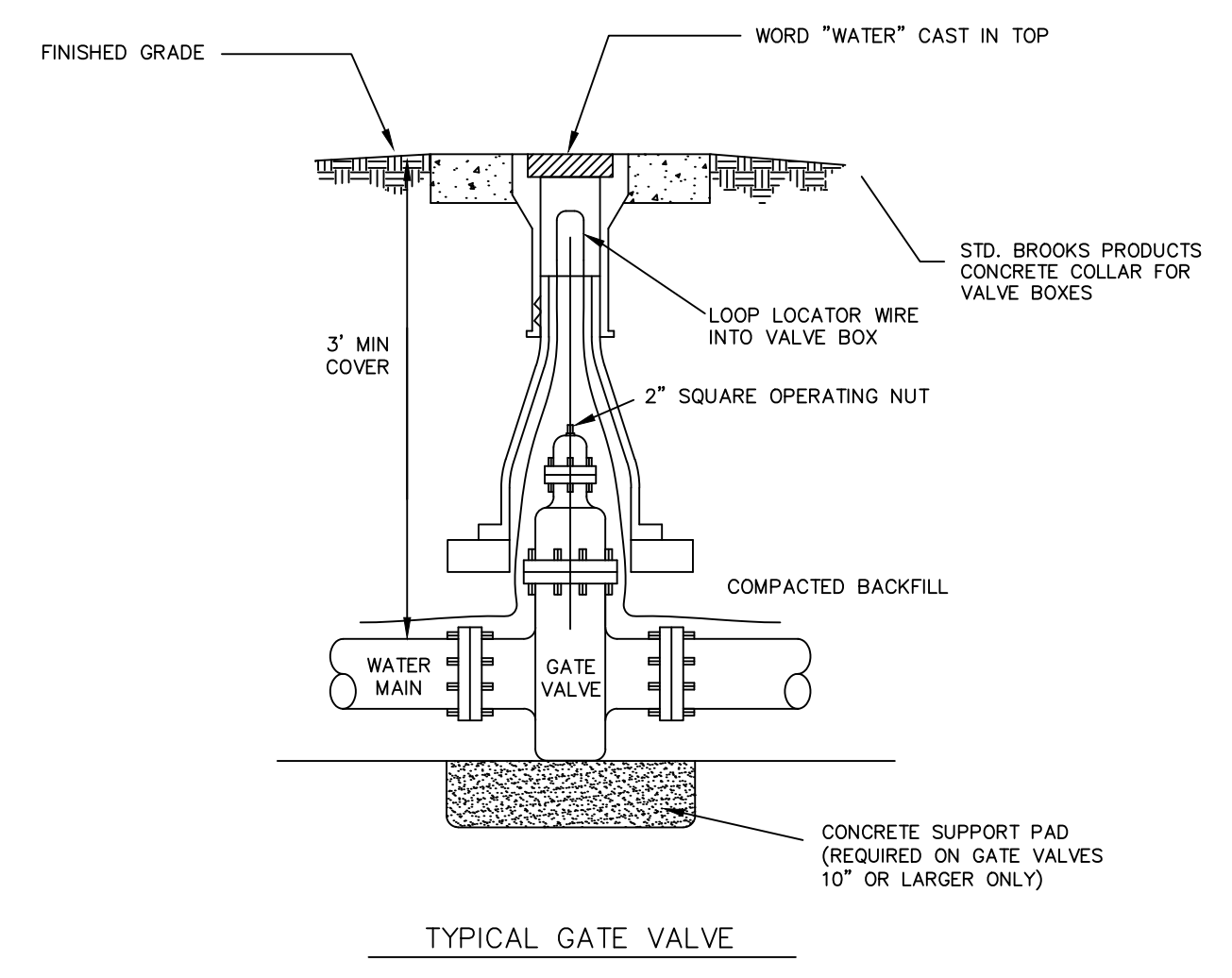
LIST OF STANDARD DRAWINGS

- 1515.01 WATER METER
- 1515.02 FIRE HYDRANT
- 1520.01 SEWER CLEAN OUT
- 1525.06 PRECAST CONCRETE SANITARY SEWER MANHOLE WITH CAST-IN-PLACE BOTTOM

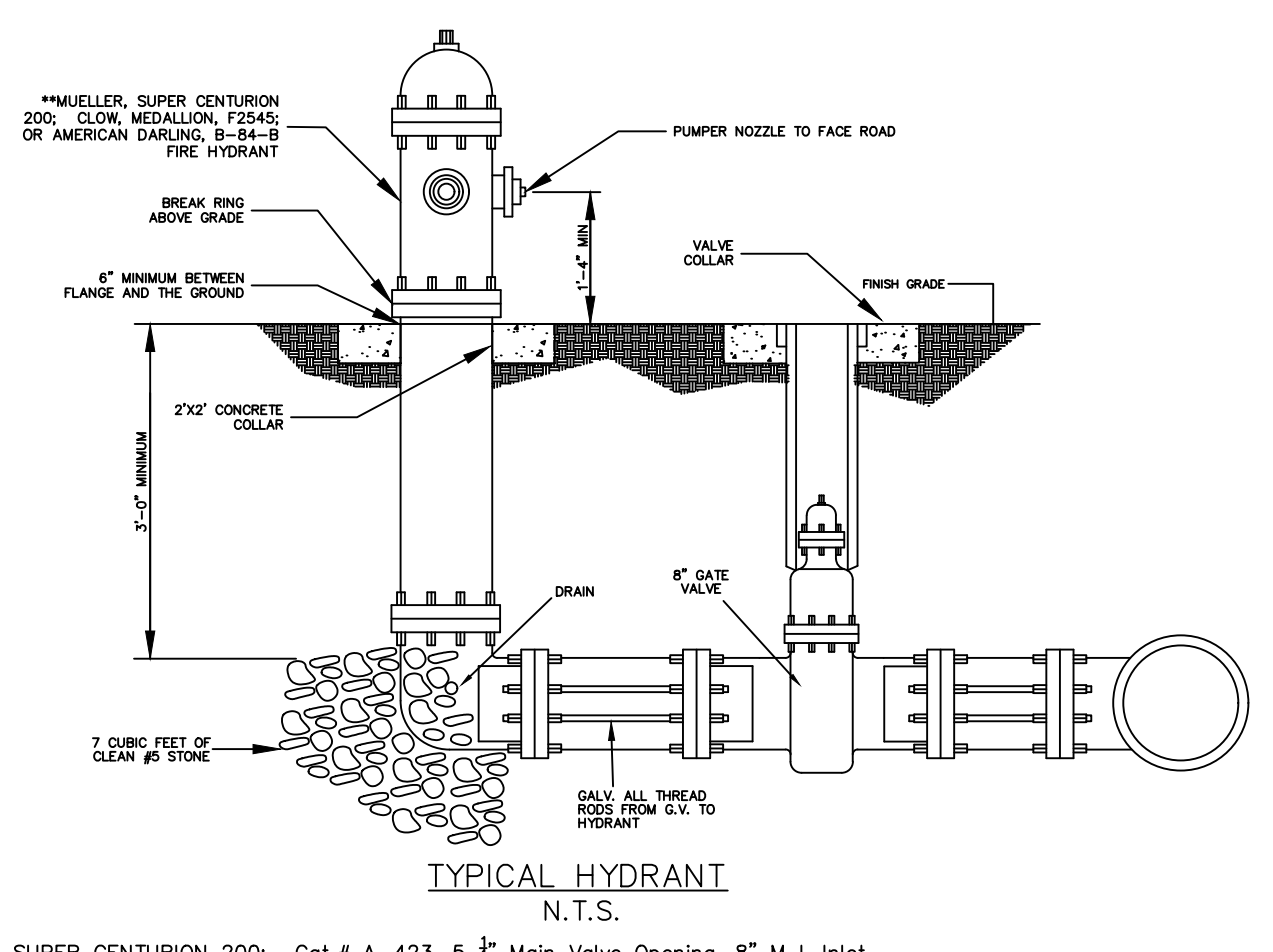
7. (EXAMPLE) SPACE FOR EXTRA NOTES ON END OF COLUMN.

UTILITY CONSTRUCTION

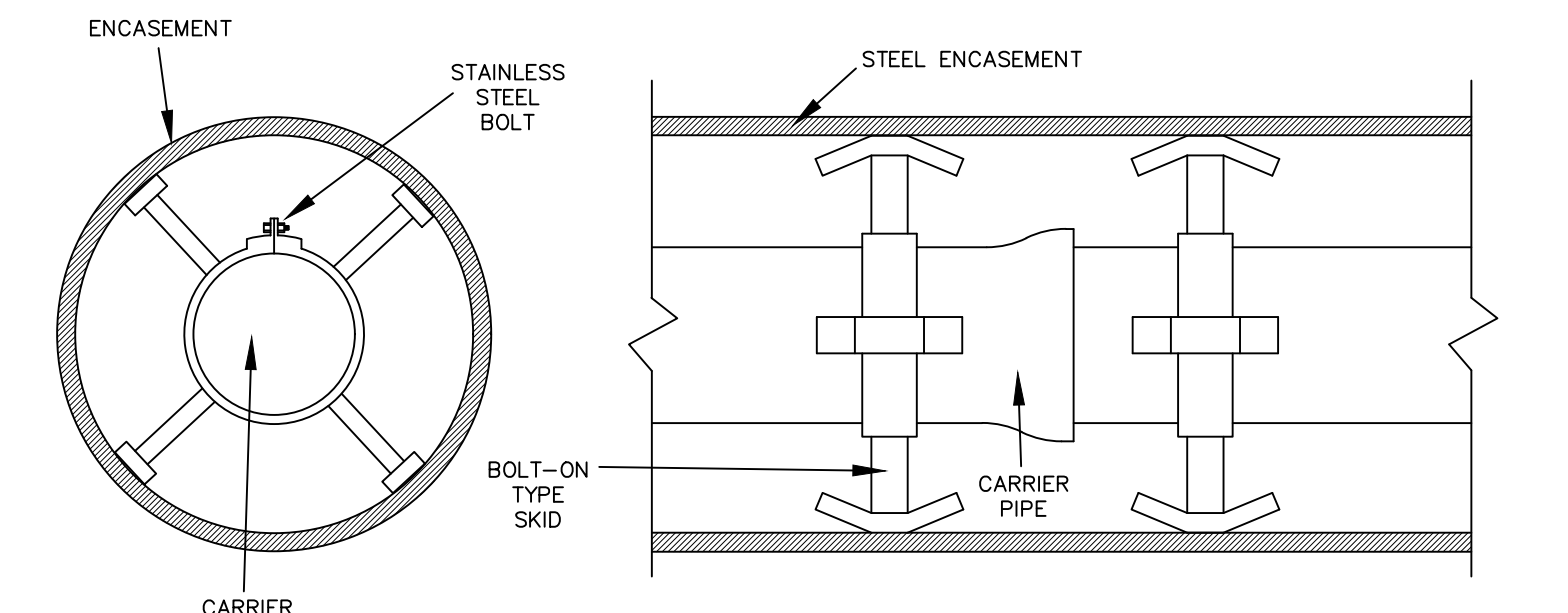
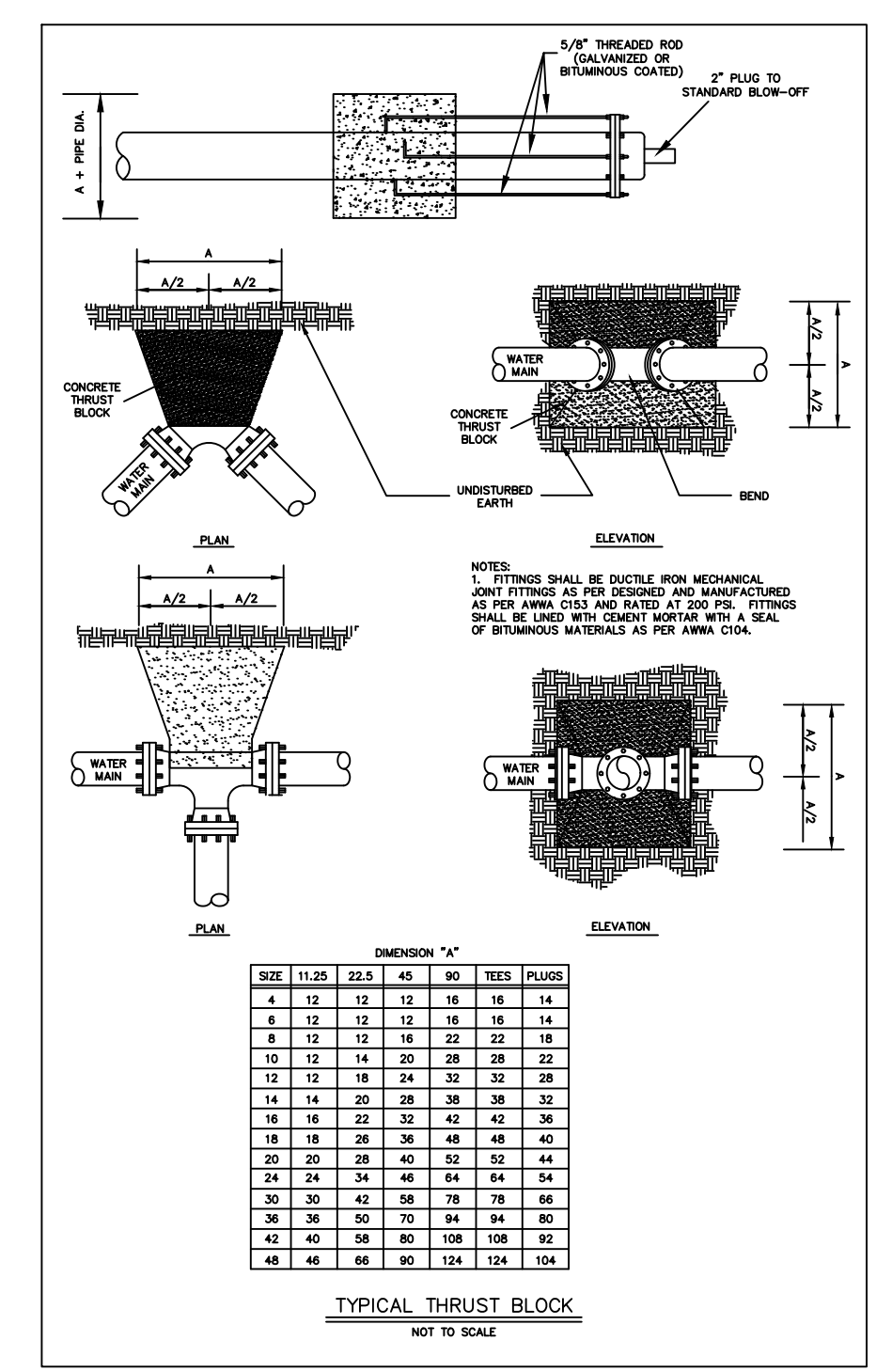
UTILITY CONSTRUCTION



2" VALVE WITH BLOW-OFF
 NTS

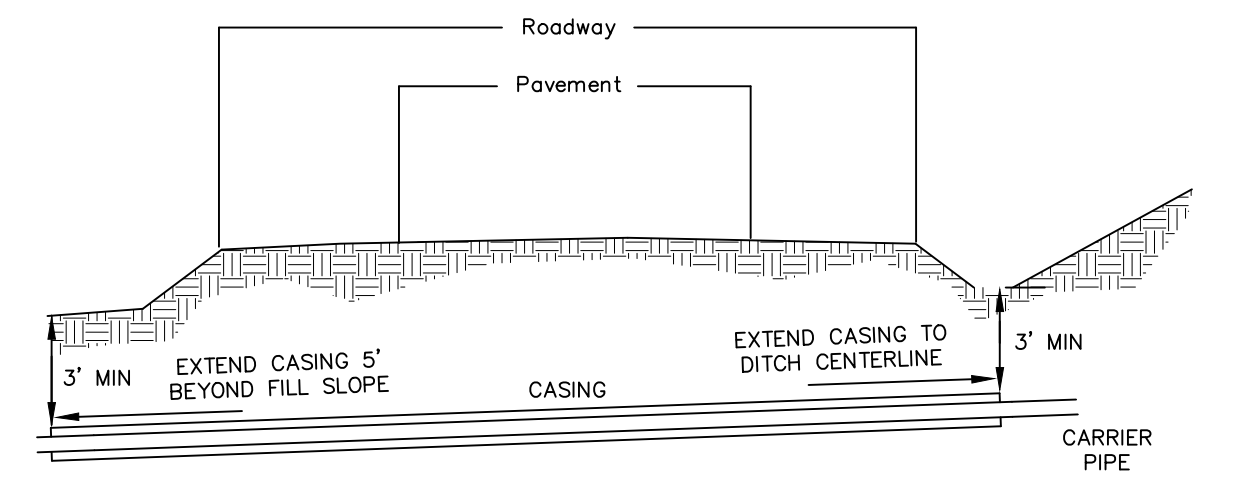


MUELLER, SUPER CENTURION 200; Cat.# A-423, 5 1/2" Main Valve Opening, 8" M.J. Inlet Connection, 3 1/2 ft. Bury, 2-2 1/2" Hose Nozzles, 1-4 8" Pumper Nozzle, National Standard Nozzle Threads, National Standard Operating Nut, Open Left, Color Yellow

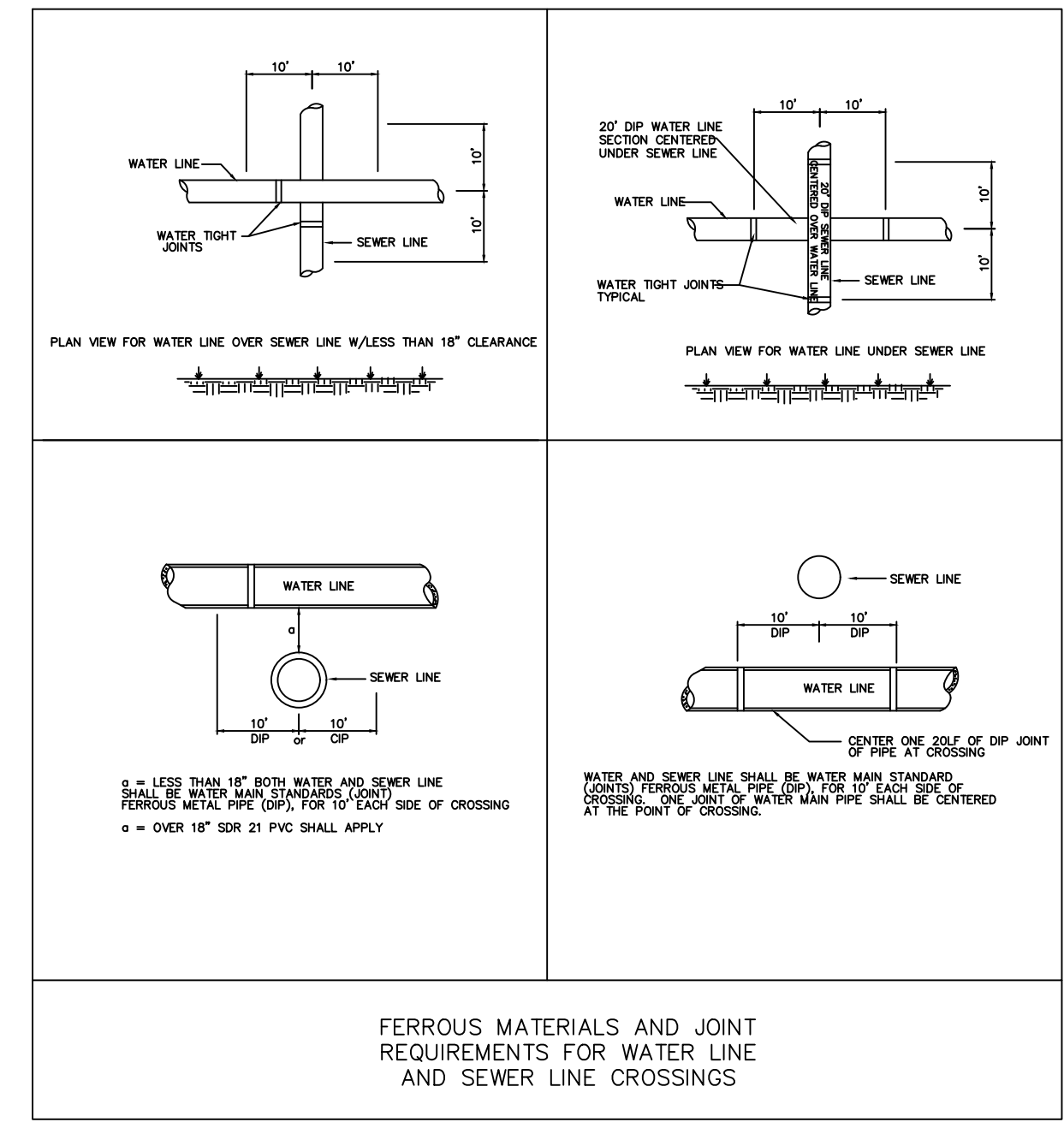
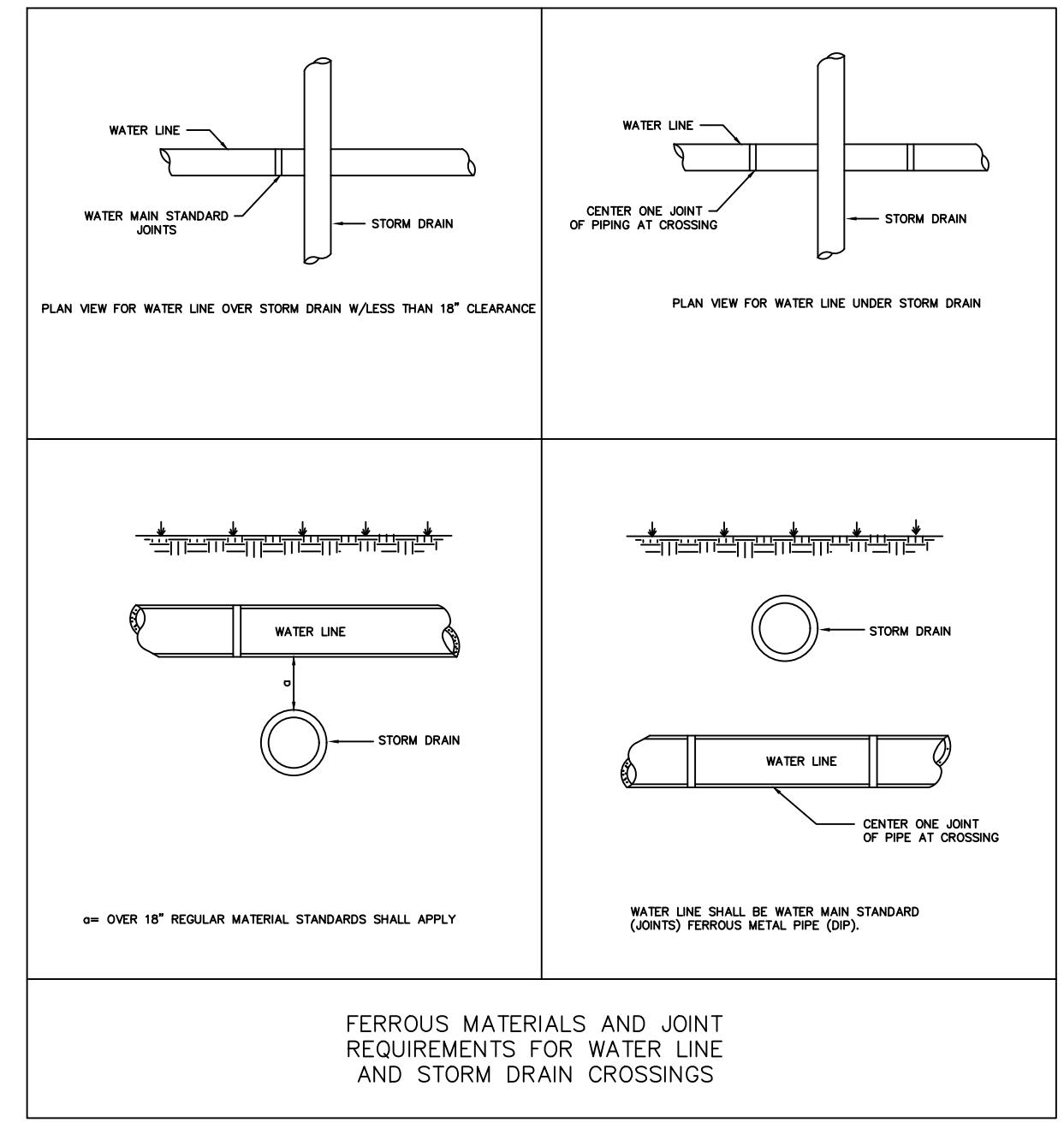
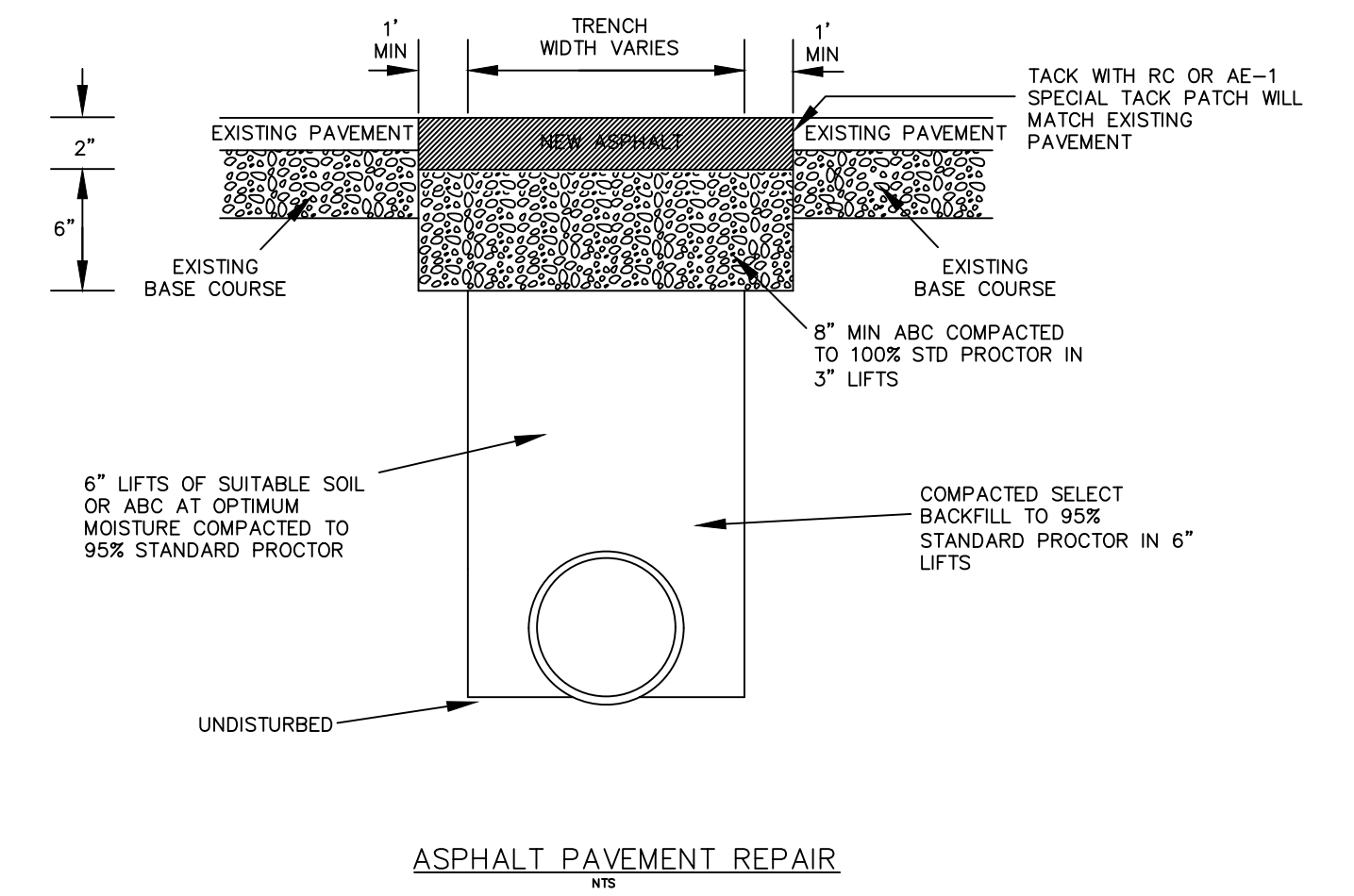


MINIMUM WALL THICKNESS OF SMOOTH WALL OR SPIRAL WELDED STEEL ENCASEMENT PIPE FOR BORING AND JACKING IS AS FOLLOWS:

Pipe Sizes (O.D.)	Wall Thickness (In.)
4"-12-3/4"	0.188
16"	0.250
18"	0.250
20"	0.250
24"	0.250
30"	0.250
36"	0.250
48"	0.250

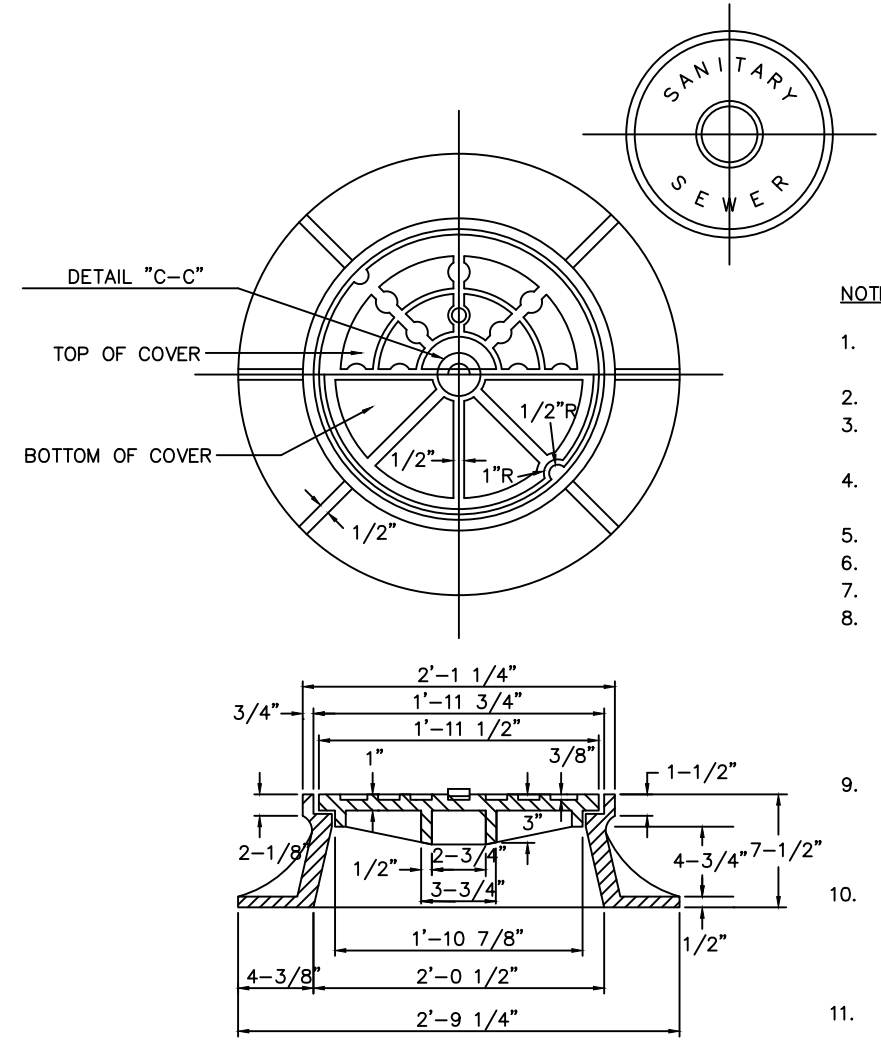


- NOTE:
- SMOOTH WALL STEEL PIPE SHALL BE JACKED THROUGH DRY BORE SLIGHTLY LARGER THAN PIPE AS SPOIL IS MUCKED BY THE AUGER BACK THROUGH THE PIPE. AS THE DRY BORING OPERATION PROGRESSES, EACH NEW SECTION OF THE ENCASEMENT PIPE SHALL BE BUTT-WELDED TO THE SECTION PREVIOUSLY JACKED INTO PLACE. ENCASEMENT SHALL EXTEND FROM DITCH LINE TO DITCH LINE IN CUT SECTIONS, 5' BEYOND THE TOE OF THE SLOPES IN FILL SECTIONS.
 - IF VOIDS ARE ENCOUNTERED OR OCCUR OUTSIDE THE ENCASEMENT PIPE, GROUT HOLES SHALL BE INSTALLED IN THE TOP SECTION OF THE ENCASEMENT PIPE AT 10' CENTERS AND THE VOIDS FILLED WITH 1:3 PORTLAND CEMENT GROUT AT SUFFICIENT PRESSURE TO PREVENT SETTLEMENT IN THE ROADWAY.
 - IN THE EVENT AN OBSTRUCTION IS ENCOUNTERED DURING THE BORING AND JACKING OPERATION, THE AUGER IS TO BE WITHDRAWN AND THE EXCESS PIPE IS TO BE CUT OFF, CAPPED, AND FILLED WITH 1:3 PORTLAND CEMENT GROUT AT SUFFICIENT PRESSURE TO FILL ALL VOIDS BEFORE MOVING TO ANOTHER BORING SITE.
 - CASING PIPE SHALL BE SEALED AT THE ENDS TO PREVENT FLOWING WATER AND DEBRIS FROM ENTERING THE ANNULAR SPACE BETWEEN THE CASING AND THE CARRIER.



- GENERAL NOTES:
- ONLY DISTURB CLEAR OR GRADE AREAS NECESSARY FOR CONSTRUCTION. FLAG OR OTHERWISE DELINEATE AREAS NOT TO BE DISTURBED. EXCLUDE VEHICLES AND CONSTRUCTION EQUIPMENT FROM THESE AREAS TO PRESERVE NATURAL VEGETATION.
 - CLEAR AND GRUB AREAS TO BE FILLED TO REMOVE TREES, VEGETATION, MUCK, ROOTS, OR OTHER OBJECTIONABLE MATERIAL THAT WOULD AFFECT THE PLANTED STABILITY OF THE FILL. PLACE FILL IN LAYERS NOT TO EXCEED 6" IN THICKNESS AND COMPACT THE LAYERS AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, OR OTHER RELATED PROBLEMS.
 - KEEP DIVERSIONS AND CHANNELS AND OTHER WATER CONVEYANCE MEASURES FREE OF SEDIMENT AT ALL TIMES.
 - ROUGHEN THE SURFACE OF ALL SLOPES DURING THE CONSTRUCTION OPERATION TO RETAIN WATER, INCREASE INFILTRATION, AND FACILITATE VEGETATION ESTABLISHMENT.
 - PERMANENTLY STABILIZE ALL GRADED AREAS IMMEDIATELY AFTER FINAL GRADING IS COMPLETED ON EACH AREA. 2:1 OR STEEPER SLOPES MUST HAVE TEMPORARY GROUND COVER WITHIN 7 DAYS. 3:1 SLOPES OR FLATTER SLOPES MUST HAVE TEMPORARY GROUND COVER WITHIN 14 DAYS.

UTILITY CONSTRUCTION



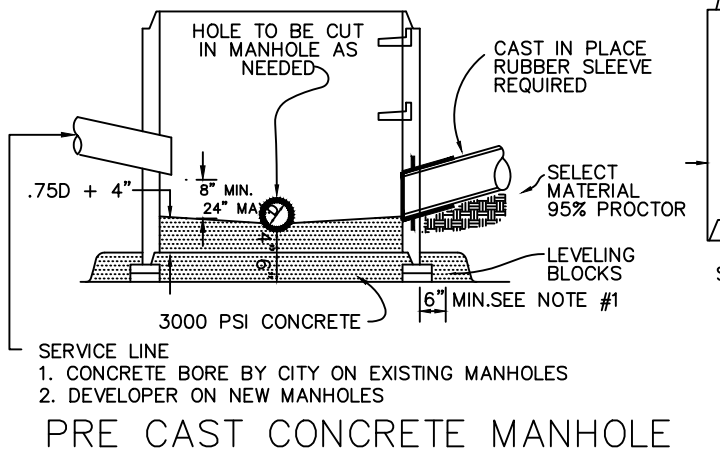
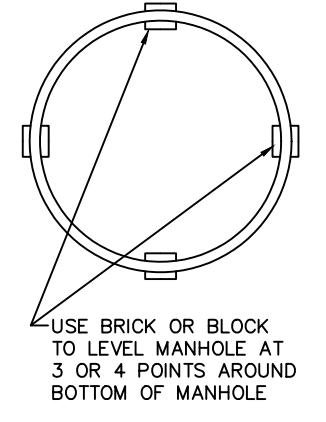
CAST IRON FRAME AND COVER FOR MANHOLE

NOTES:

- All castings to be free from sand holes & no plugging will be allowed.
- Cast with the use of aluminum patterns.
- Casting to be painted while hot with coal tar.
- Covers used for storm drain manholes shall have "storm sewer" cast of them.
- Slight draft allowed on straight faces.
- Covers shall be solid with no vent holes.
- Standard letters unless otherwise specified.
- Approximate weight of FRAME - 190 lbs.
- Approximate weight of COVER - 120 lbs.
- Approximate weight of TOTAL - 310 lbs.
- Dewey Bros. Inc. Standard Manhole Ring & Cover Code No. MH RCR-2001, and the Vulcan Foundry, Inc. V-1384 Ring and Cover meets these specifications.
- When the manhole is exposed to road traffic, the top of the frame is to be flush with the ground. At the other locations it shall be 9" above the ground.
- Rims and covers to be gray cast iron complying to ASTM A48, class 30 iron.

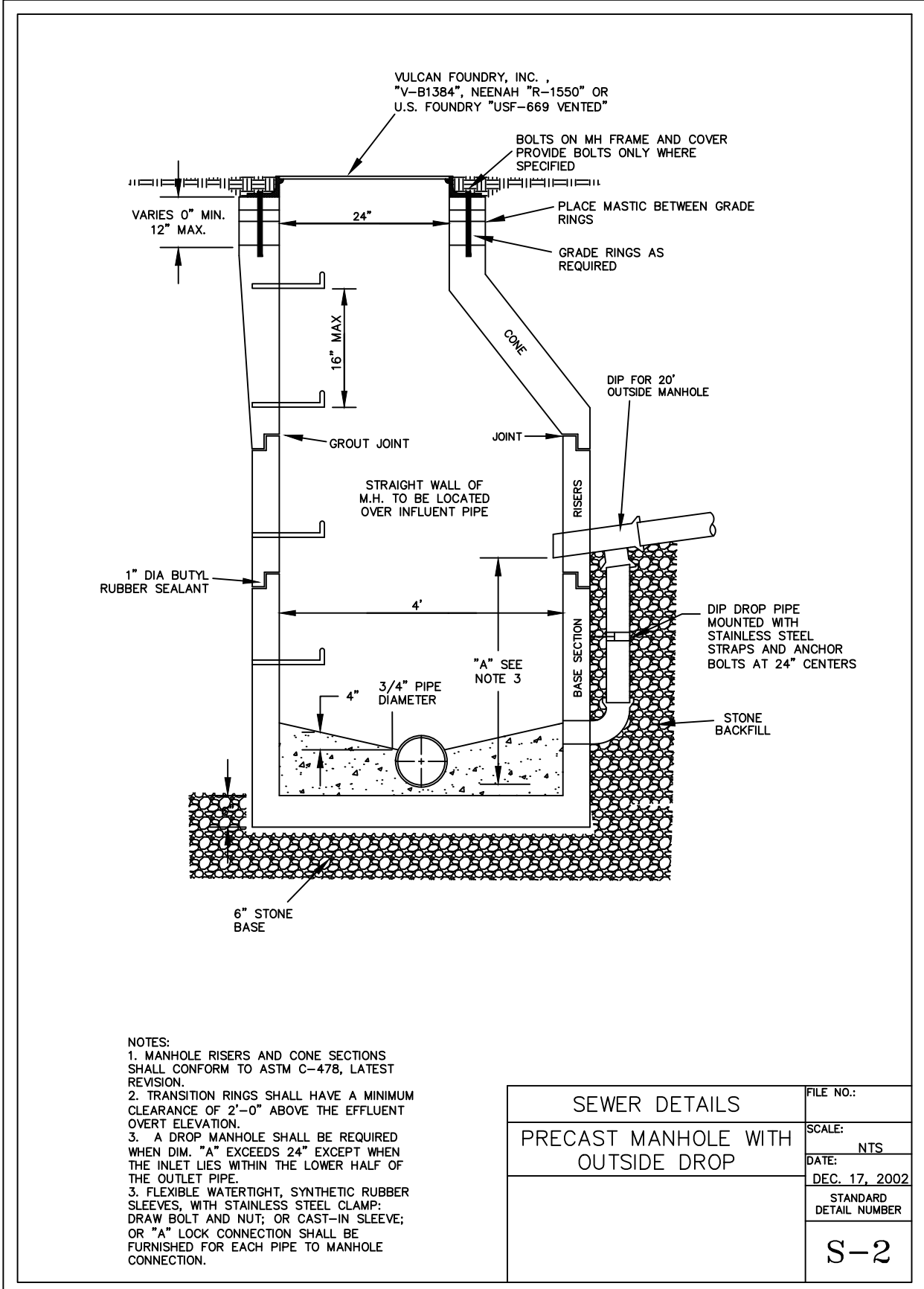
NOTES:

- MIN. CONCRETE SLAB TO BE POURED TO GROUND OUT.
- INVERTS TO IN & OUT PIPES TO BE BUILT AFTER MANHOLE HAS BEEN SET.
- MANHOLE TO BE LEVELLED & ASSEMBLED SO AS TO EVENLY DISTRIBUTE WALL BEARING LOAD.
- SEE DETAIL WS-2 FOR REINFORCING DETAILS AND STEP DETAILS.
- 6" MIN. EXTENSION BEYOND EXTERIOR WALL OF MANHOLE.
- PRE CAST MANHOLE JOINTS TO BE SEALED WITH "O" RING JOINT-ASTM C-443 OR WITH APPROVED BUTYL RUBBER SEALANT.
- CONCRETE SLAB SHALL EXTEND A MIN. OF 5" ABOVE BOTTOM OF FIRST MANHOLE SECTION.
- ALL LIFT HOLES TO BE SEALED WITH TAPERED NEOPRENE PLUGS OR OTHER APPROVED EQUAL. LIFT HOLES TO BE SEALED FROM OUTSIDE.
- PROVIDE REINFORCED CONCRETE FOOTING WHEN MANHOLE IS GREATER THEN 12' OR ON POOR SOIL BASE.
- MANHOLE MUST MEET AASHTO M199.
- MANHOLE SHALL BE PRE CAST CONCRETE WITH CONCENTRIC CONE SECTIONS COMPLYING TO ASTM C-478.
- 4" THICK 95% PROCTOR COMPACTED #57 WASHED STONE TO BE 6" CONCRETE W/OUTSIDE DROP.



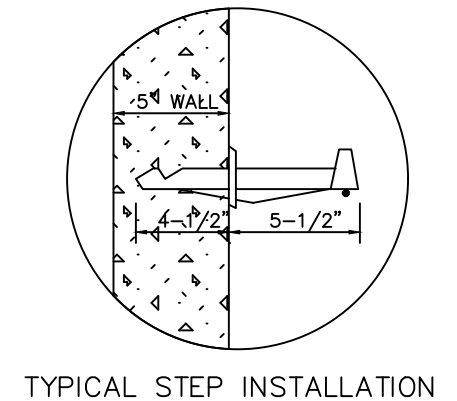
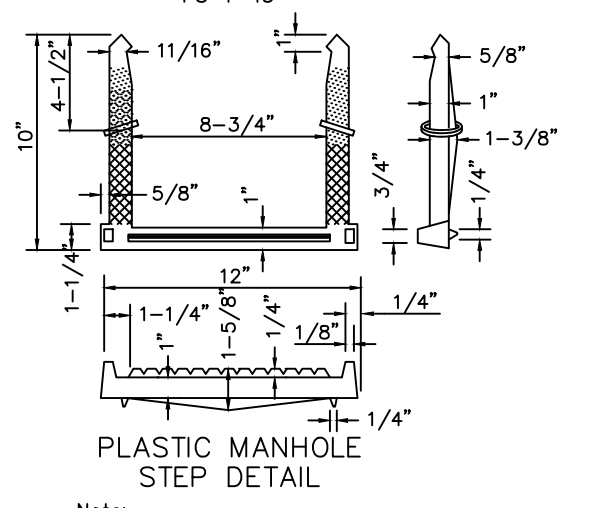
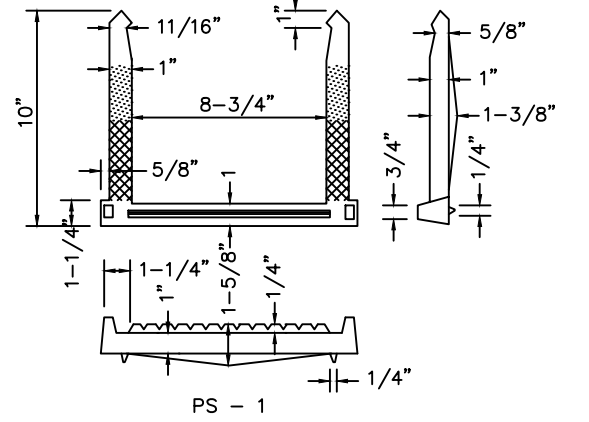
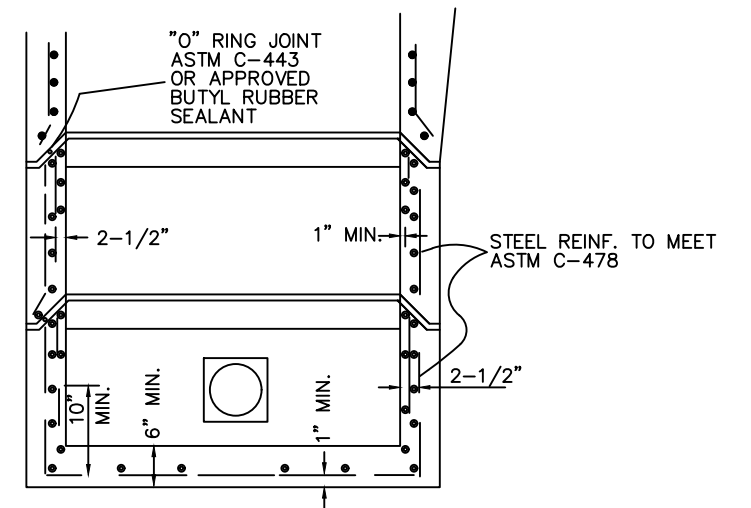
GROUT JOINTS ON INSIDE OF MANHOLE AND WRAP THE OUTSIDE OF THE JOINTS WITH CRETEX MANHOLE WRAP

NOTE: PRE CAST MANHOLE MAY BE CONSTRUCTED TO A MAXIMUM DEPTH OF 14' USING 4' PRE CAST MANHOLE SECTIONS. IF MANHOLE DEPTH EXCEEDS 14', USE 5' MANHOLE SECTIONS AS SHOWN.



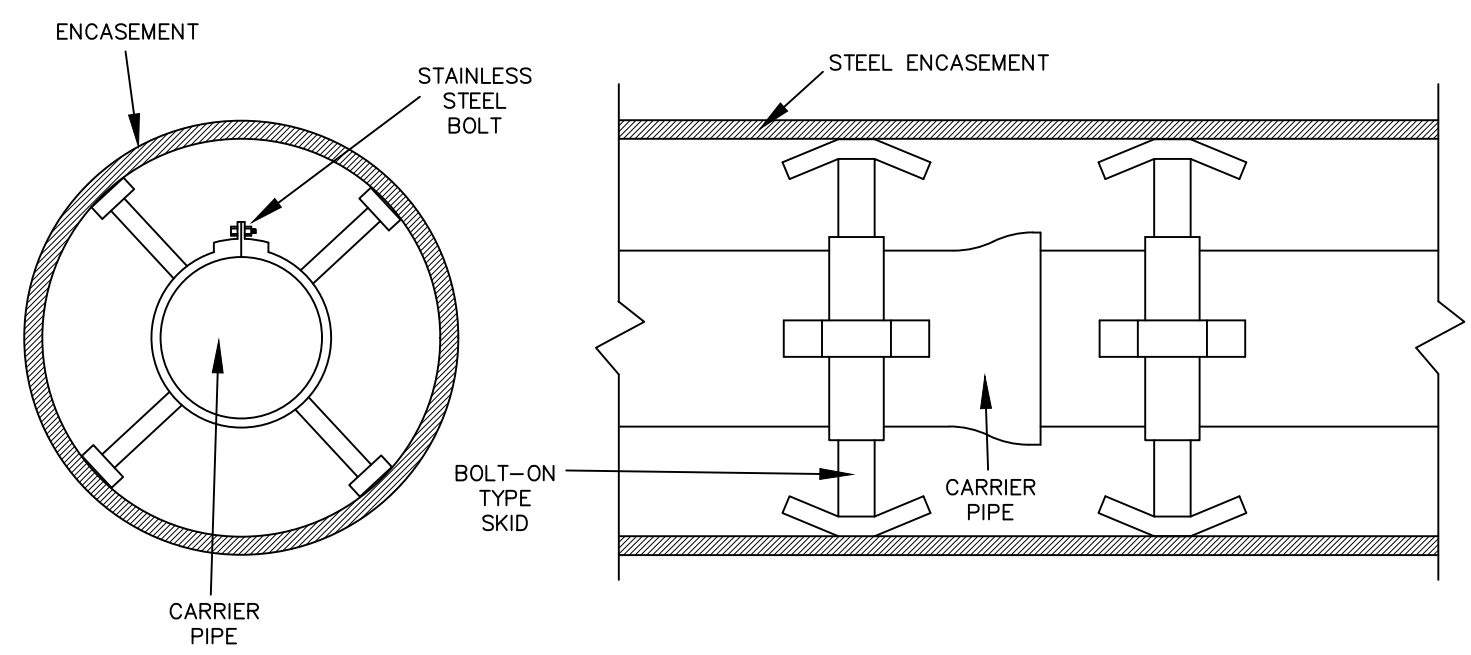
- NOTES:**
- MANHOLE RISERS AND CONE SECTIONS SHALL CONFORM TO ASTM C-478, LATEST REVISION.
 - TRANSITION RINGS SHALL HAVE A MINIMUM CLEARANCE OF 2'-0" ABOVE THE EFFLUENT OVER ELEVATION.
 - A DROP MANHOLE SHALL BE REQUIRED WHEN DIM. "A" EXCEEDS 24" EXCEPT WHEN THE INLET LIES WITHIN THE LOWER HALF OF THE OUTLET PIPE.
 - FLEXIBLE WATER TIGHT, SYNTHETIC RUBBER SLEEVES, WITH STAINLESS STEEL CLAMP, DRAW BOLT AND NUT; OR CAST-IN SLEEVE; OR "A" LOCK CONNECTION SHALL BE FURNISHED FOR EACH PIPE TO MANHOLE CONNECTION.

SEWER DETAILS		FILE NO.:
PRECAST MANHOLE WITH OUTSIDE DROP		SCALE: NTS
		DATE: DEC 17, 2002
		STANDARD DETAIL NUMBER
		S-2



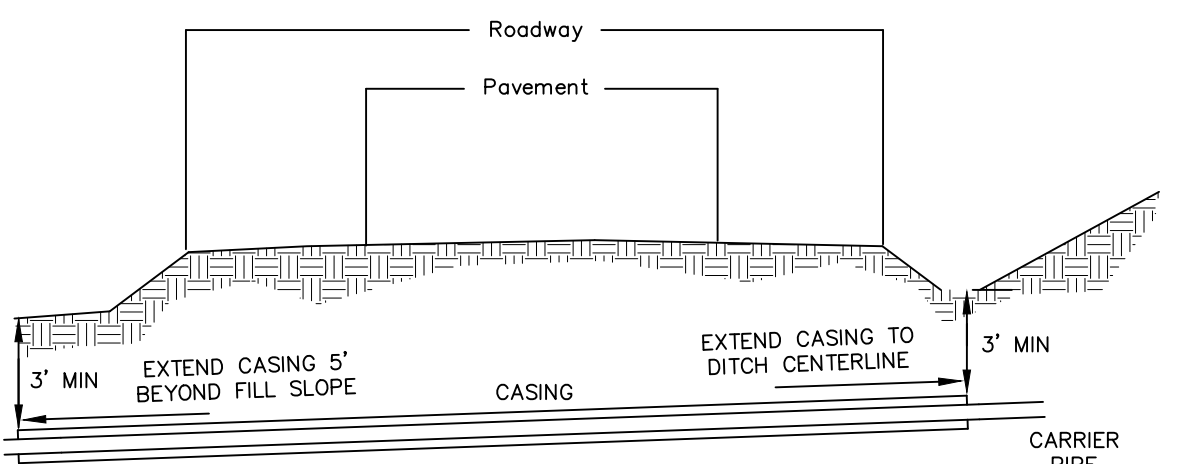
PLASTIC MANHOLE STEP DETAILS
MANHOLE STEEL REINFORCING DETAIL

Note: Steps are to be polypropylene plastic reinforced with 1/2" diameter grade 60 steel rods.



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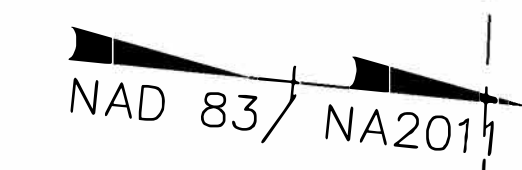
- NOTE:**
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 - CASING PIPE SHALL BE SEALED AT THE ENDS TO PREVENT FLOWING WATER AND DEBRIS FROM ENTERING THE ANNULAR SPACE BETWEEN THE CASING AND THE CARRIER.

TYPICAL HIGHWAY CROSSING

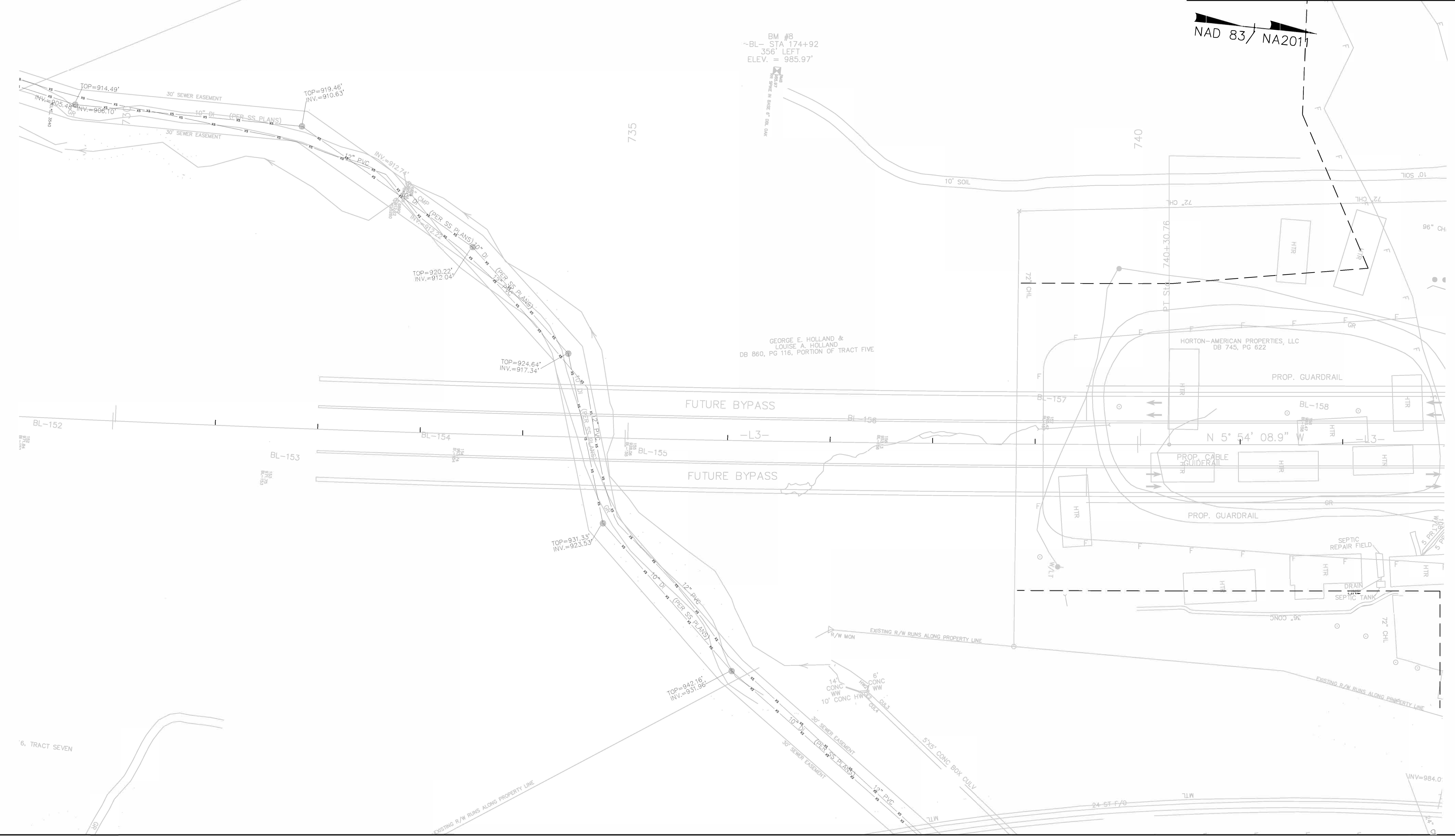
PROJECT REFERENCE NO.	SHEET
R-2233BB	NO. UC-4
DESIGNED BY:	
DRAWN BY:	
CHECKED BY:	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
PLANS ONLY	

UTILITY CONSTRUCTION

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



COUNTY
- 273



BM #8
~BL- STA 174+92
356' LEFT
ELEV. = 985.97'

735

740

GEORGE E. HOLLAND &
LOUISE A. HOLLAND
DB 860, PG 116, PORTION OF TRACT FIVE

HORTON-AMERICAN PROPERTIES, LLC
DB 745, PG 622

FUTURE BYPASS

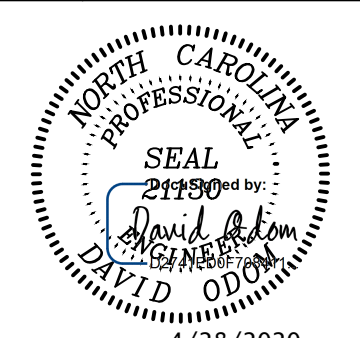
FUTURE BYPASS

N 5° 54' 08.9" W

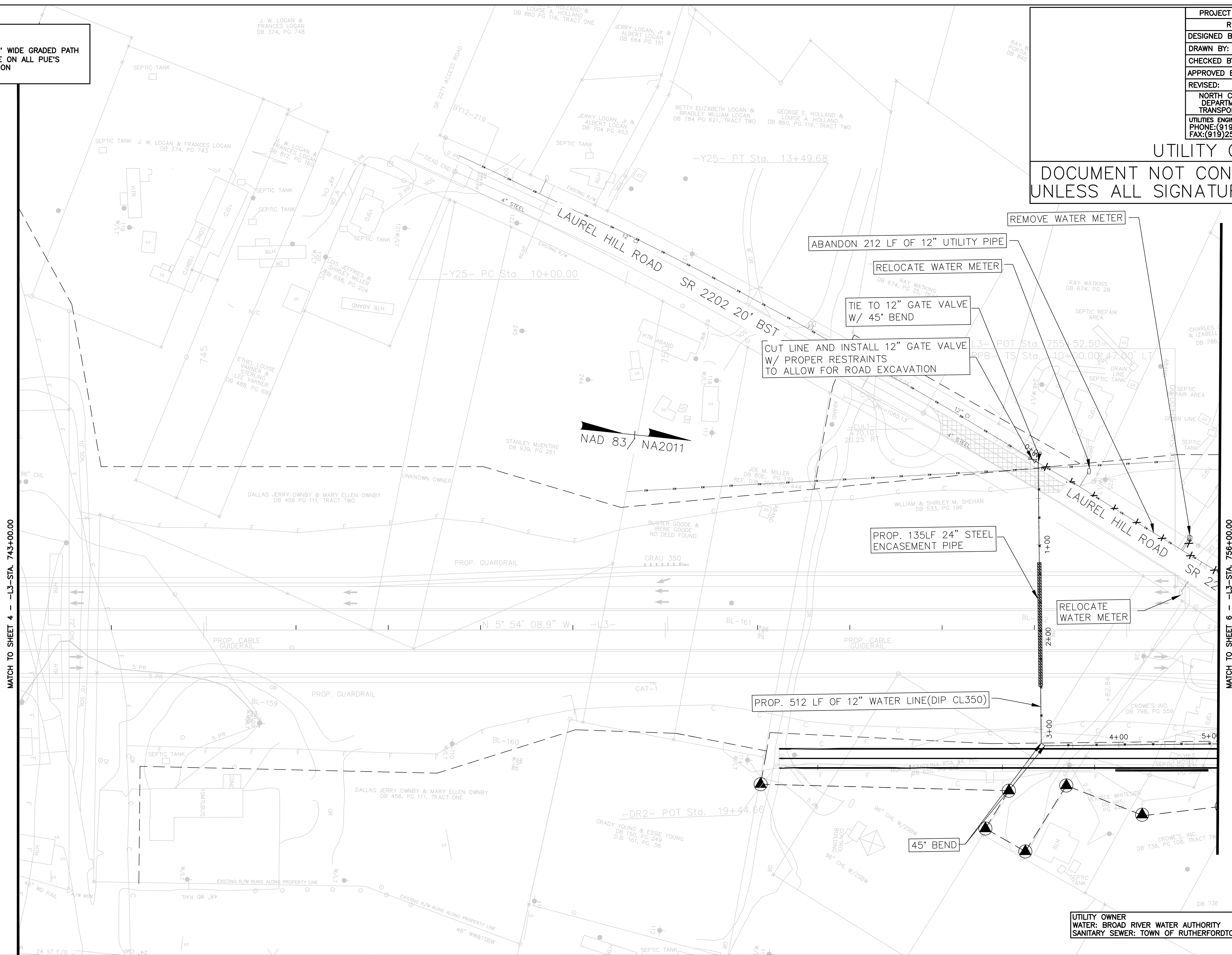
6, TRACT SEVEN

INV=984.0'

NOTE
 CONTRACTOR TO LEAVE 10' WIDE GRADED PATH WITH 8' OF 2" ABC STONE ON ALL PUE'S TO PUBLIC ACCESS LOCATION

PROJECT REFERENCE NO. R-2233BB	SHEET NO. UC-5
DESIGNED BY:	
DRAWN BY:	
CHECKED BY:	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
PLANS ONLY	

UTILITY CONSTRUCTION
 DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED



MATCH TO SHEET 4 - -L3--STA. 743+00.00

MATCH TO SHEET 6 - -L3--STA. 756+00.00

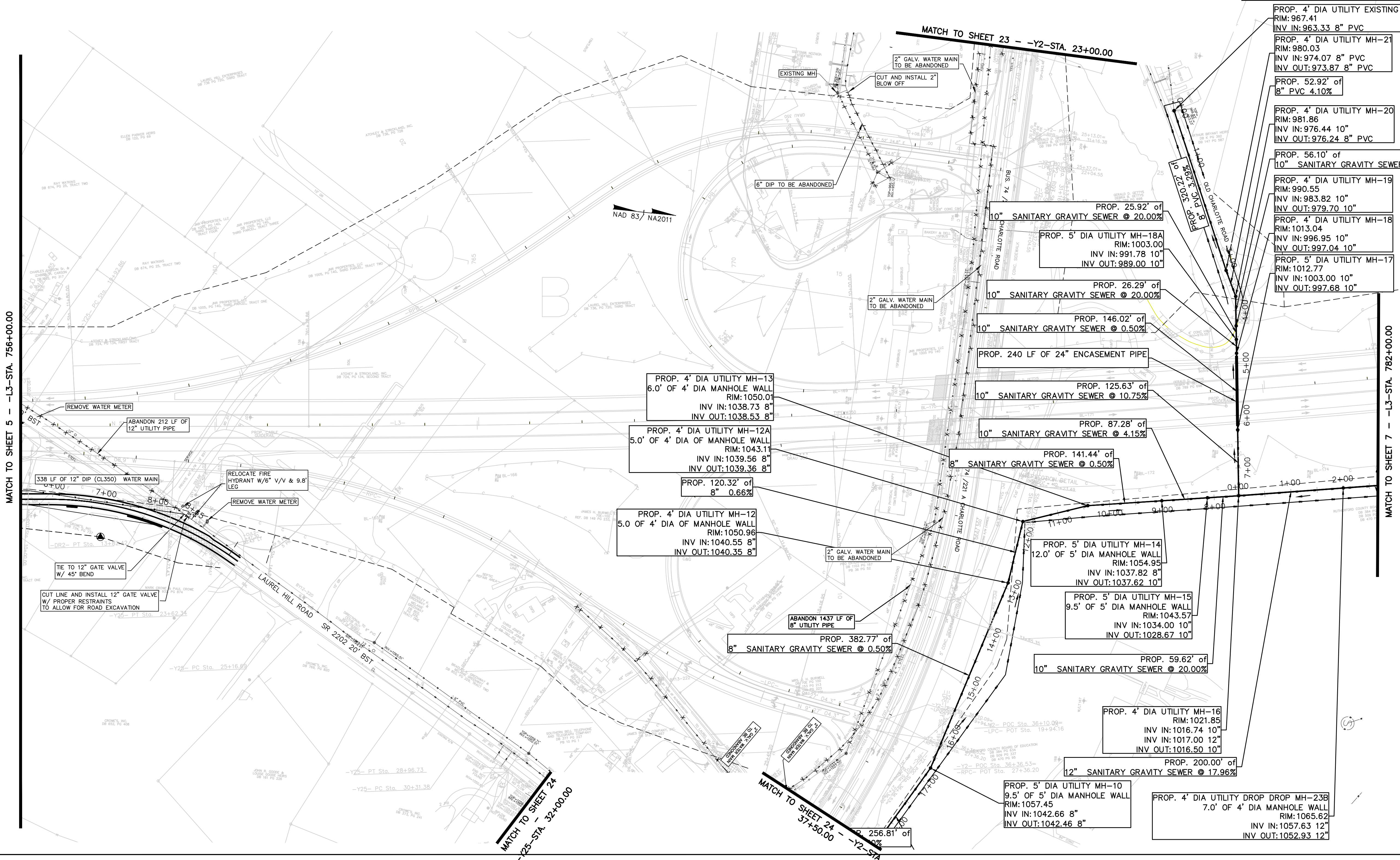
UTILITY OWNER
 WATER: BROAD RIVER WATER AUTHORITY
 SANITARY SEWER: TOWN OF RUTHERFORDTON

PROFILE
 SEE UC-33 FOR WATER PROFILE
 STA. 0 +00 TO 8 + 65

NOTE
 CONTRACTOR TO LEAVE 10' WIDE GRADED PATH WITH 8" OF 2" ABC STONE ON ALL PUE'S TO PUBLIC ACCESS LOCATION

PROJECT REFERENCE NO. R-2233BB	SHEET NO. UC-6
DESIGNED BY:	
DRAWN BY:	
CHECKED BY:	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
PLANS ONLY	

UTILITY CONSTRUCTION
 DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED



UTILITY OWNER
 WATER: BROAD RIVER WATER AUTHORITY
 SANITARY SEWER: TOWN OF RUTHERFORDTON

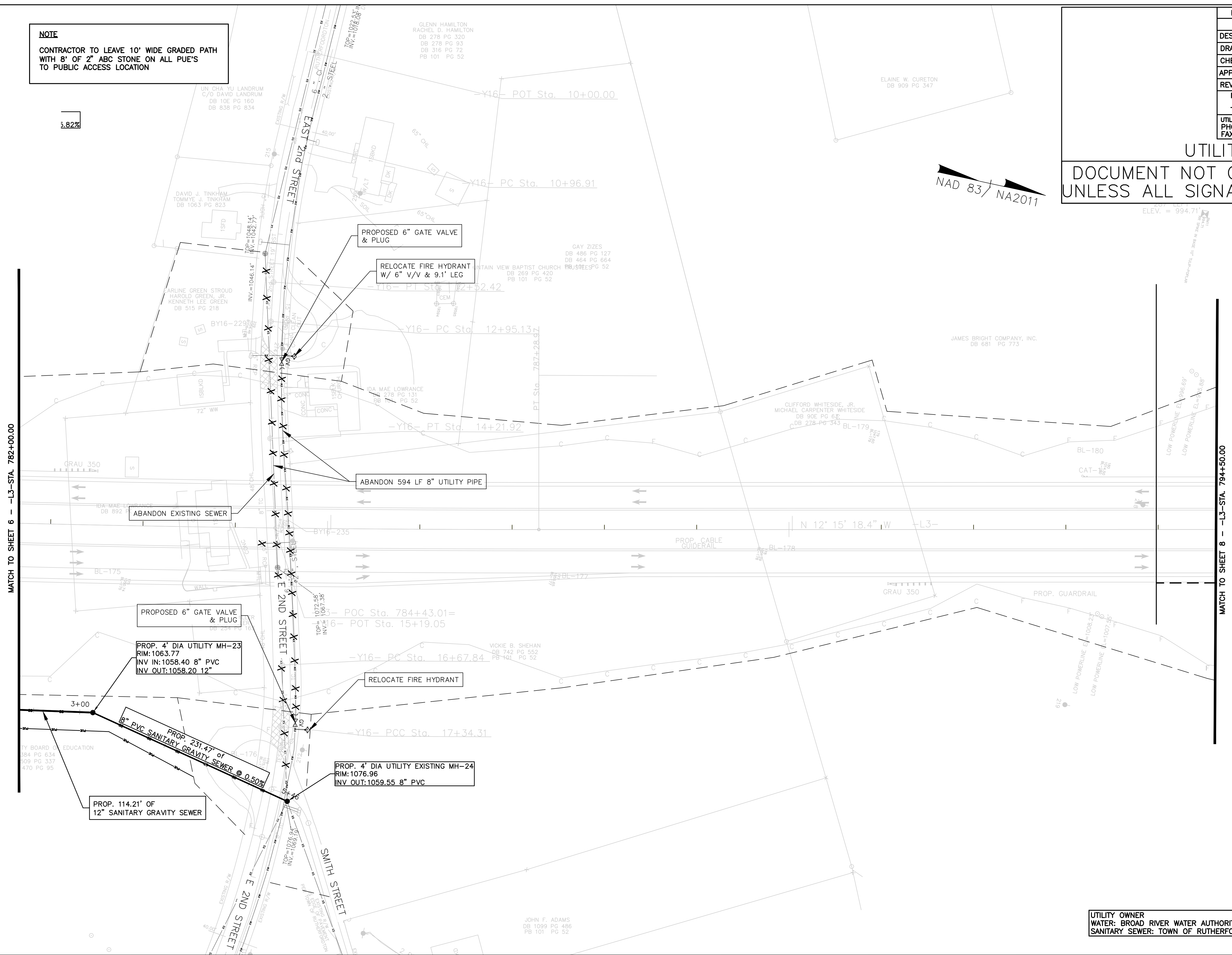
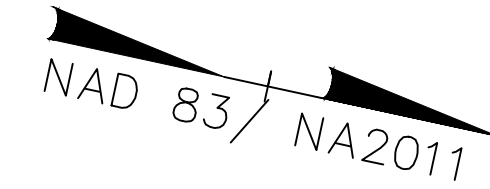
PROFILE
 SEE UC-33 FOR WATER PROFILE
 STA. 0 +00 TO 8 + 65
 SEE UC-34 & 35 FOR SEWER
 PROFILE STA. 0 +00 TO 21 + 17
 SEE UC-35 FOR SEWER PROFILE
 STA. 0 +00 TO 5 + 46

NOTE
 CONTRACTOR TO LEAVE 10' WIDE GRADED PATH WITH 8' OF 2" ABC STONE ON ALL PUE'S TO PUBLIC ACCESS LOCATION

5.82%

PROJECT REFERENCE NO. R-2233BB	SHEET NO. UC-7
DESIGNED BY:	
DRAWN BY:	
CHECKED BY:	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
PLANS ONLY	

UTILITY CONSTRUCTION
 DOCUMENT NOT CONSIDERED FINAL
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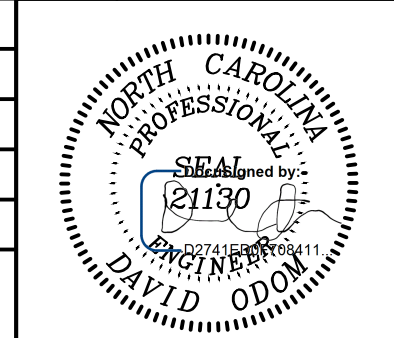


MATCH TO SHEET 6 -- L3-- STA. 782+00.00

MATCH TO SHEET 8 -- L3-- STA. 794+50.00

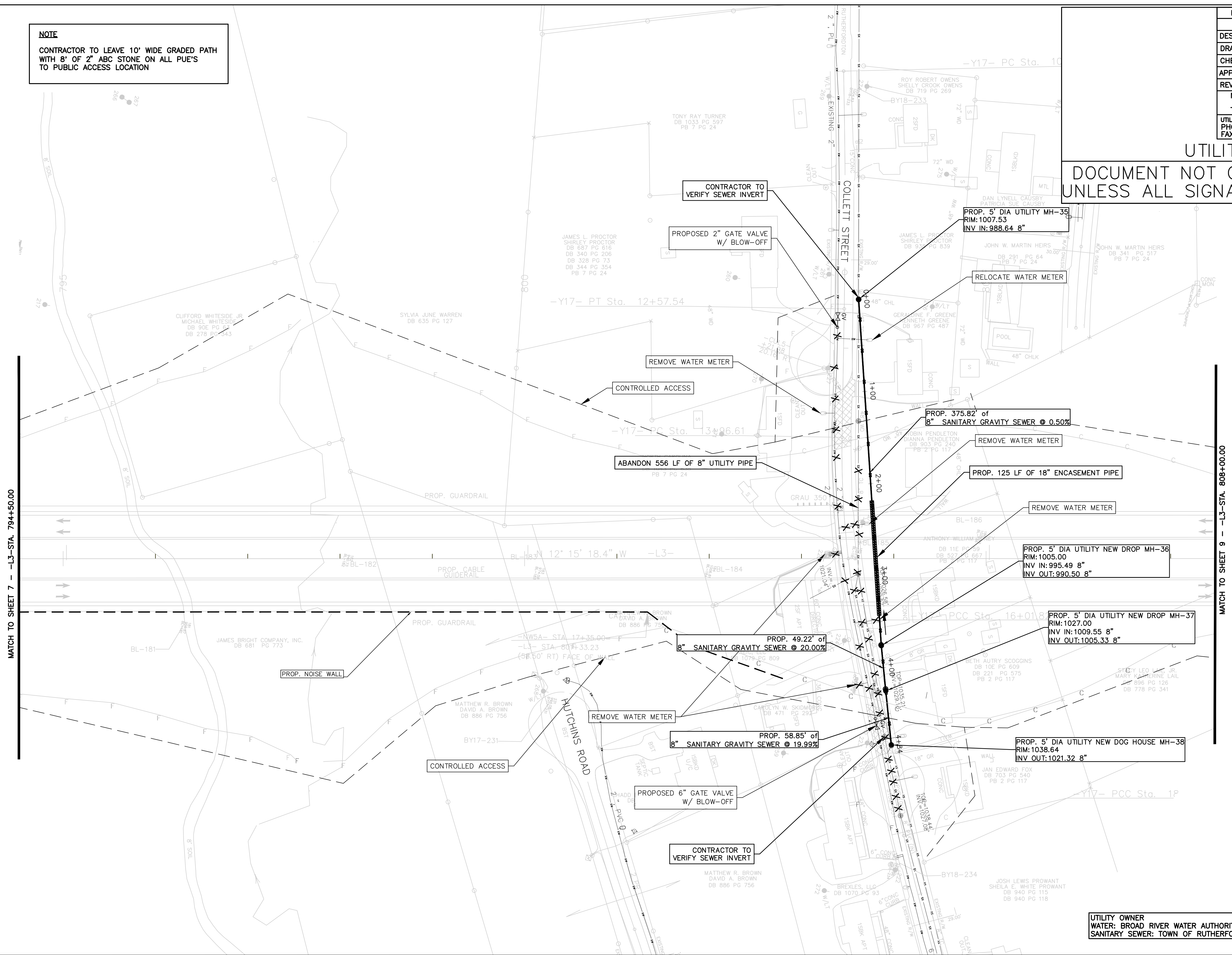
UTILITY OWNER
 WATER: BROAD RIVER WATER AUTHORITY
 SANITARY SEWER: TOWN OF RUTHERFORDTON

PROFILE
 SEE UC-35 FOR SEWER PROFILE
 STA. 0 +00 TO 5 + 46

PROJECT REFERENCE NO. R-2233BB	SHEET NO. UC-8
DESIGNED BY:	
DRAWN BY:	
CHECKED BY:	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
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UTILITY CONSTRUCTION
 DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED

NOTE
 CONTRACTOR TO LEAVE 10' WIDE GRADED PATH
 WITH 8" OF 2" ABC STONE ON ALL PUE'S
 TO PUBLIC ACCESS LOCATION



MATCH TO SHEET 7 - -L3--STA. 794+50.00

MATCH TO SHEET 9 - -L3--STA. 808+00.00

UTILITY OWNER
 WATER: BROAD RIVER WATER AUTHORITY
 SANITARY SEWER: TOWN OF RUTHERFORDTON

PROFILE
 SEE UC-36 FOR SEWER PROFILE
 STA. 0 +00 TO 4 + 84

NOTE
 CONTRACTOR TO LEAVE 10' WIDE GRADED PATH WITH 8" OF 2" ABC STONE ON ALL PUE'S TO PUBLIC ACCESS LOCATION

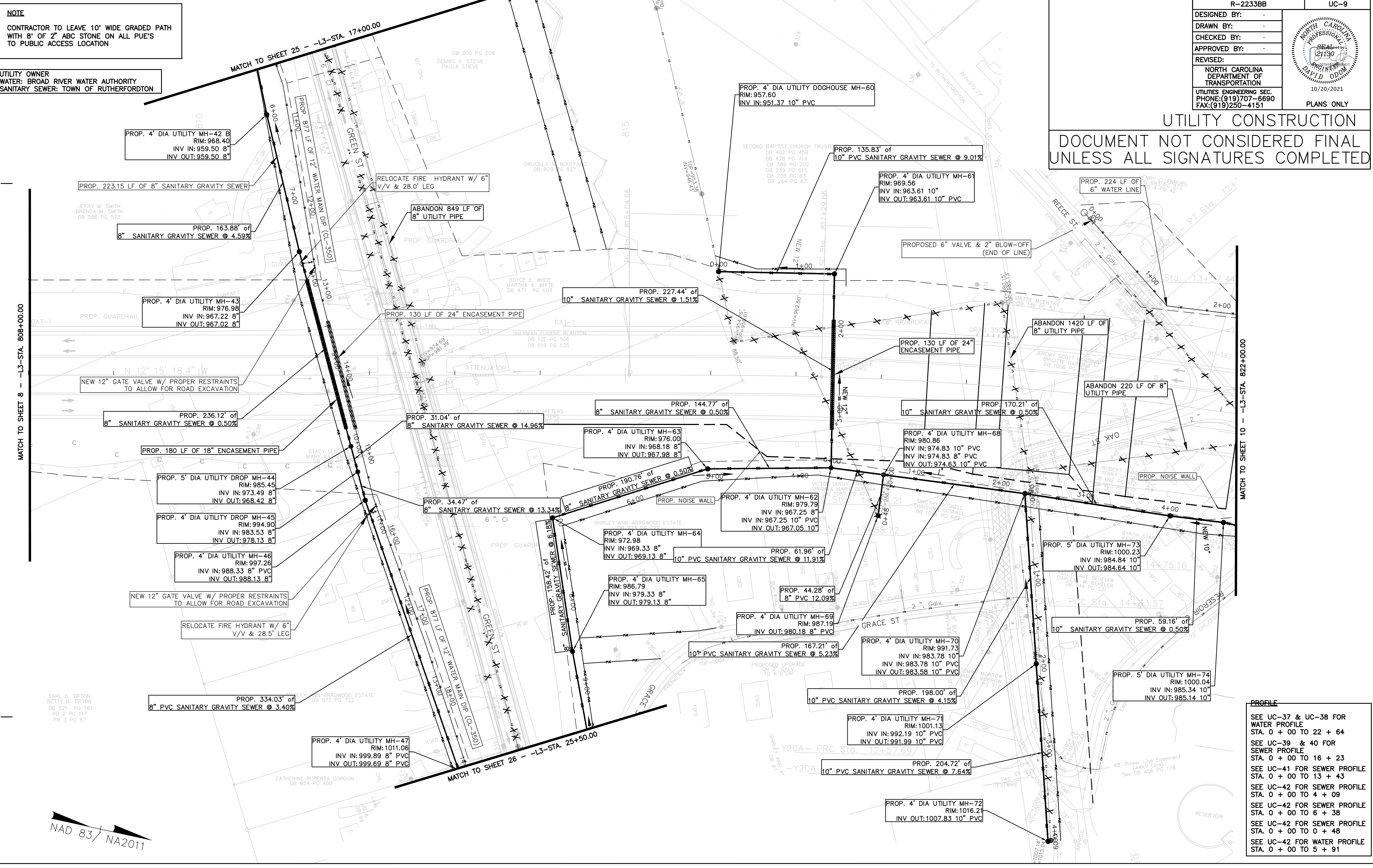
UTILITY OWNER
 WATER: BROAD RIVER WATER AUTHORITY
 SANITARY SEWER: TOWN OF RUTHERFORDTON

PROJECT REFERENCE NO. R-2233BB	SHEET NO. UC-9
DESIGNED BY:	
DRAWN BY:	
CHECKED BY:	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151 10/20/2021 PLANS ONLY	

UTILITY CONSTRUCTION
 DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED

MATCH TO SHEET 8 - -L3- STA. 808+00.00

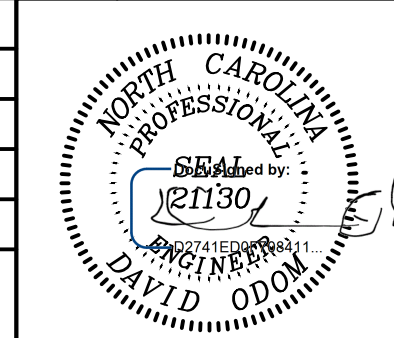
MATCH TO SHEET 10 - -L3- STA. 822+00.00



PROFILE
 SEE UC-37 & UC-38 FOR WATER PROFILE
 STA. 0 + 00 TO 22 + 64
 SEE UC-39 & 40 FOR SEWER PROFILE
 STA. 0 + 00 TO 13 + 43
 SEE UC-41 FOR SEWER PROFILE
 STA. 0 + 00 TO 4 + 09
 SEE UC-42 FOR SEWER PROFILE
 STA. 0 + 00 TO 6 + 38
 SEE UC-42 FOR SEWER PROFILE
 STA. 0 + 00 TO 0 + 48
 SEE UC-42 FOR WATER PROFILE
 STA. 0 + 00 TO 5 + 91

NAD 83 / NA2011

NOTE
 CONTRACTOR TO LEAVE 10' WIDE GRADED PATH WITH 8' OF 2" ABC STONE ON ALL PUE'S TO PUBLIC ACCESS LOCATION

PROJECT REFERENCE NO.	R-2233BB	SHEET NO.	UC-10
DESIGNED BY:			
DRAWN BY:			
CHECKED BY:			
APPROVED BY:			
REVISED:			
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION		10/15/2021	
UTILITIES ENGINEERING SEC. PHONE:(919)707-6690 FAX:(919)250-4151		PLANS ONLY	

UTILITY CONSTRUCTION
 DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED

NAD 83/NA2011

MATCH TO SHEET 11 - -Y18-STA. 10+75.00

MATCH TO SHEET 11 - -L3-STA. 834+00.00

PROPOSED (2)45° BEND

PROP. 336 LF OF 6" WATER LINE

PROP. 128 LF OF 18" ENCASEMENT PIPE

PROPOSED 6 X 6 X 6 TEE W/ 6" GATE VALVE

RELOCATE FIRE HYDRANT W/6" V/V & 14.5' LEG

TIE TO EXISTING 6" DIP W/ 45° BEND & 6" GATE VALVE

PROP. 4' DIA UTILITY NEW DOGHOUSE MH-75
 RM: 993.87
 INV OUT: 986.19 10"

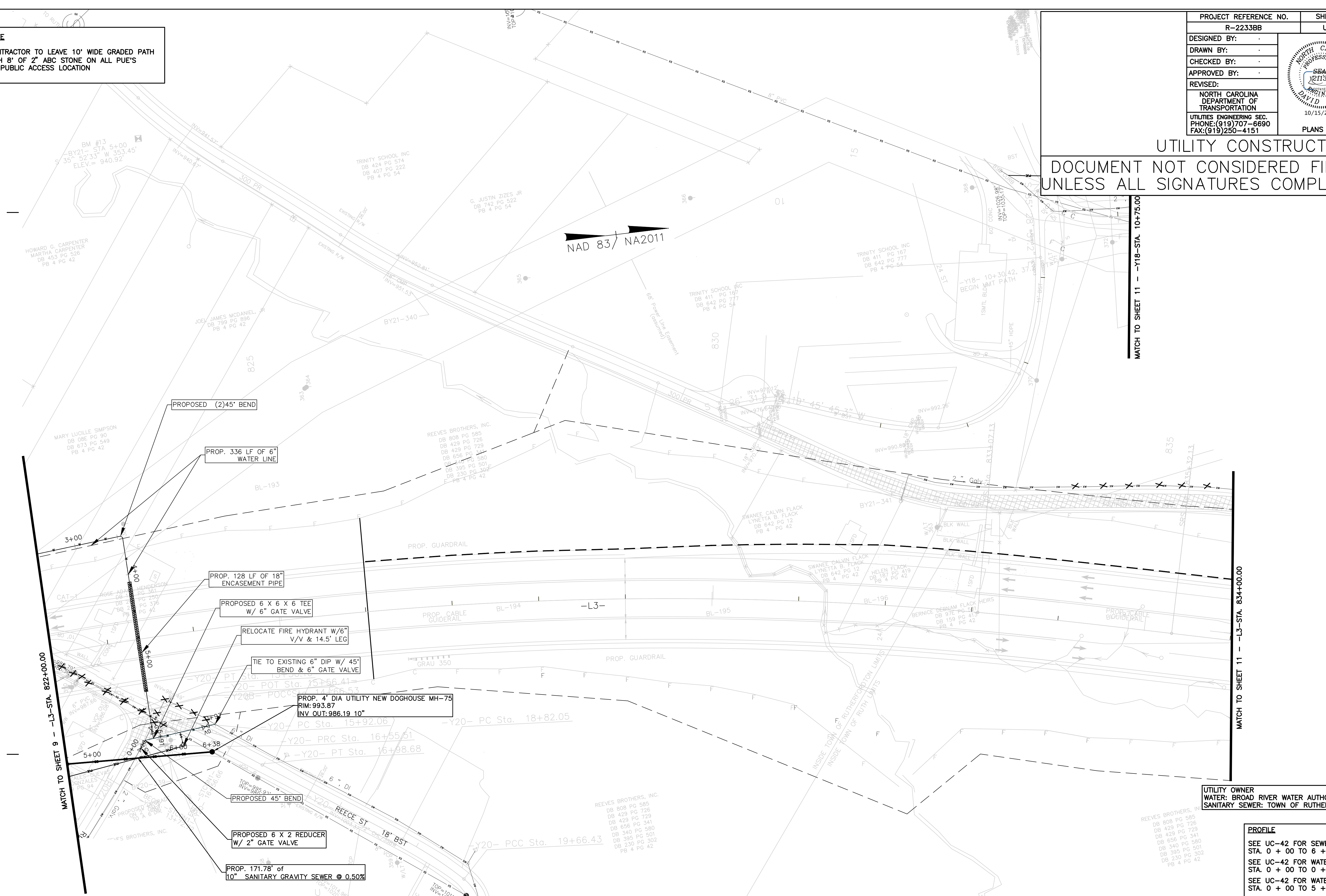
PROPOSED 45° BEND

PROPOSED 6 X 2 REDUCER W/ 2" GATE VALVE

PROP. 171.78' of 10" SANITARY GRAVITY SEWER @ 0.50%

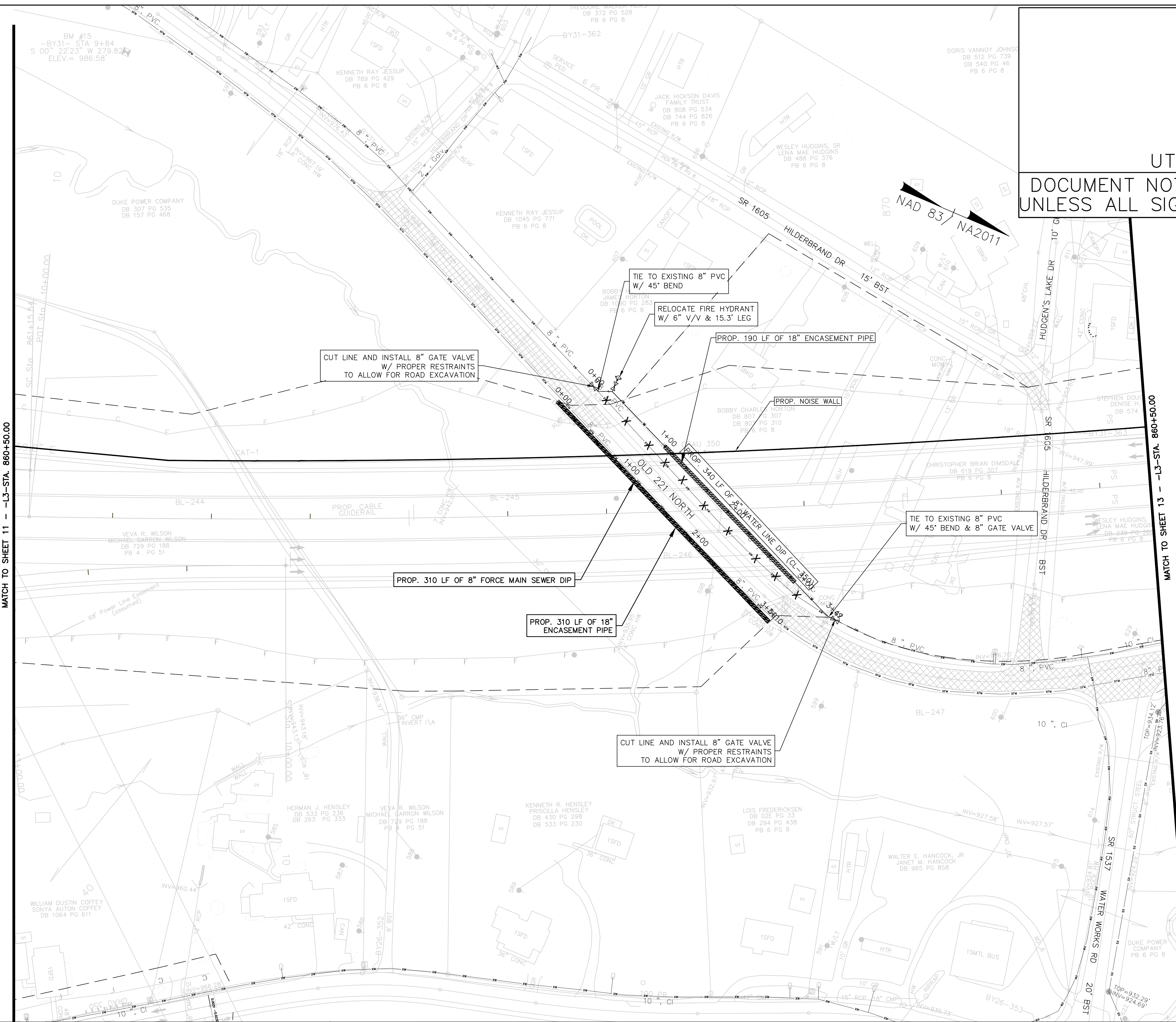
UTILITY OWNER
 WATER: BROAD RIVER WATER AUTHORITY
 SANITARY SEWER: TOWN OF RUTHERFORDTON

PROFILE
 SEE UC-42 FOR SEWER PROFILE STA. 0 + 00 TO 6 + 38
 SEE UC-42 FOR WATER PROFILE STA. 0 + 00 TO 0 + 97
 SEE UC-42 FOR WATER PROFILE STA. 0 + 00 TO 5 + 91



PROJECT REFERENCE NO.	R-2233BB	SHEET NO.	UC-12
DESIGNED BY:			
DRAWN BY:			
CHECKED BY:			
APPROVED BY:			
REVISED:			
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION		PLANS ONLY	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151			

UTILITY CONSTRUCTION
DOCUMENT NOT CONSIDERED FINAL
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MATCH TO SHEET 11 - -L3--STA. 860+50.00

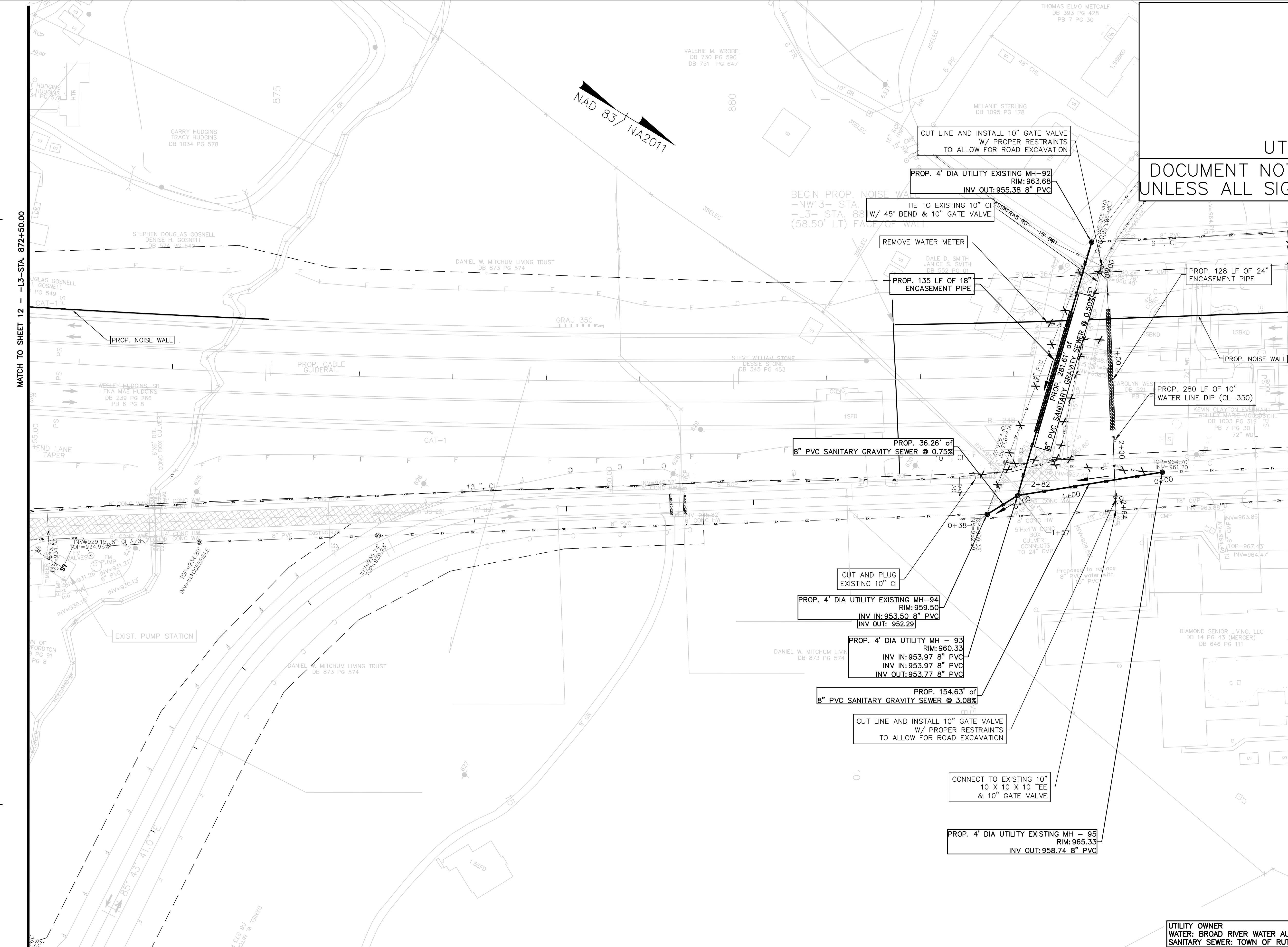
MATCH TO SHEET 13 - -L3--STA. 860+50.00

UTILITY OWNER
WATER: BROAD RIVER WATER AUTHORITY
SANITARY SEWER: TOWN OF RUTHERFORDTON

PROFILE
SEE UC-45 FOR SEWER FORCE MAIN PROFILE
STA. 0 + 00 TO 3 + 10
SEE UC-44 FOR WATER PROFILE
STA. 0 + 00 TO 3 + 42

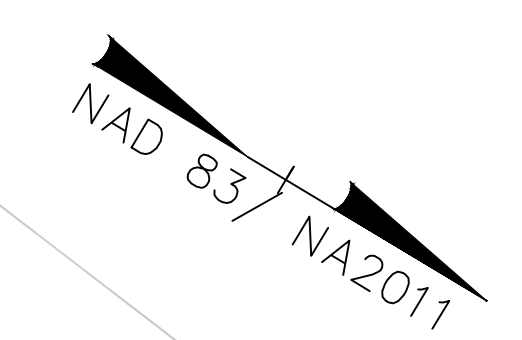
PROJECT REFERENCE NO.	SHEET NO.
R-2233BB	UC-13
DESIGNED BY:	
DRAWN BY:	
CHECKED BY:	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
PLANS ONLY	

UTILITY CONSTRUCTION
 DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED




MATCH TO SHEET 12 - -L3--STA. 872+50.00

MATCH TO SHEET 14 - -L3--STA. 886+00.00

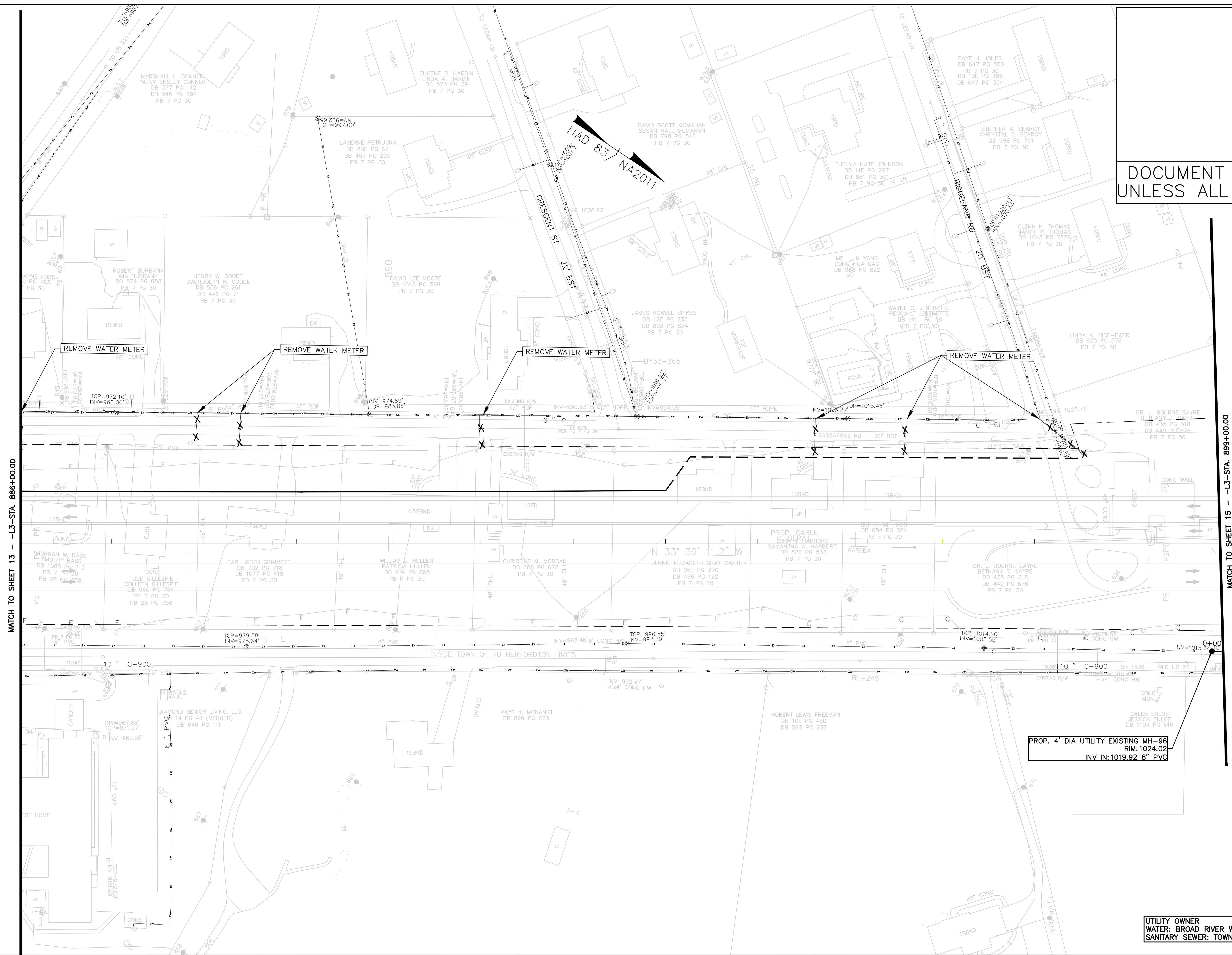


PROFILE
SEE UC-45 FOR SEWER PROFILE STA. 0 + 00 TO 1 + 57
SEE UC-45 FOR SEWER PROFILE STA. 0 + 00 TO 0 + 38
SEE UC-44 FOR SEWER PROFILE STA. 0 + 00 TO 2 + 82
SEE UC-45 FOR WATER PROFILE STA. 0 + 00 TO 2 + 64

UTILITY OWNER
 WATER: BROAD RIVER WATER AUTHORITY
 SANITARY SEWER: TOWN OF RUTHERFORDTON

PROJECT REFERENCE NO.	SHEET NO.
R-2233BB	UC-14
DESIGNED BY:	
DRAWN BY:	
CHECKED BY:	
APPROVED BY:	
REVISED:	10/15/2021
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
PLANS ONLY	

UTILITY CONSTRUCTION
 DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED




MATCH TO SHEET 13 - L3-STA. 886+00.00

MATCH TO SHEET 15 - L3-STA. 899+00.00

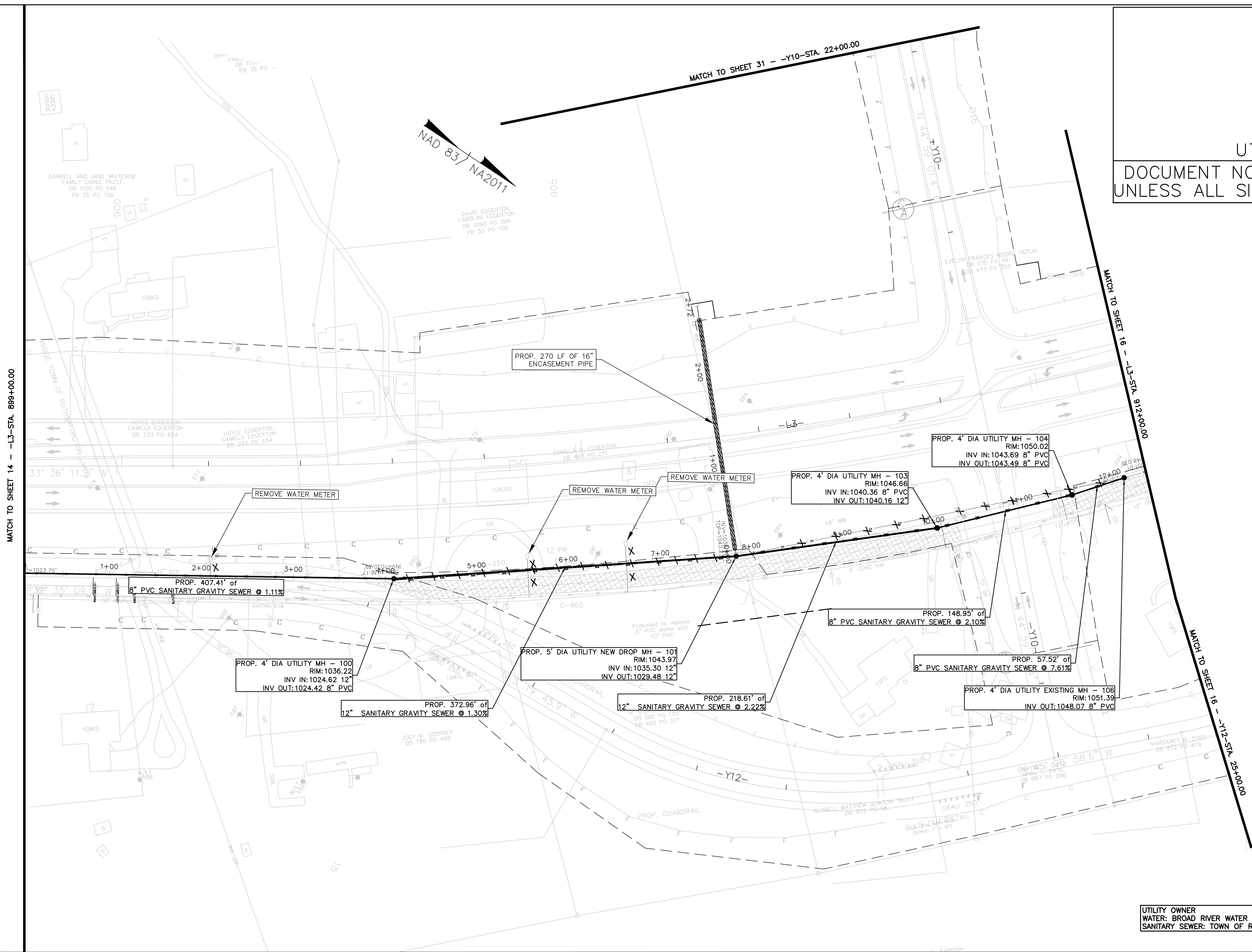
PROP. 4" DIA UTILITY EXISTING MH-96
 RIM: 1024.02
 INV IN: 1019.92 8" PVC

UTILITY OWNER
 WATER: BROAD RIVER WATER AUTHORITY
 SANITARY SEWER: TOWN OF RUTHERFORDTON

PROFILE
 SEE UC-45 FOR SEWER PROFILE
 STA. 0 + 00 TO 12 + 13

PROJECT REFERENCE NO.	SHEET NO.
R-2233BB	UC-15
DESIGNED BY:	
DRAWN BY:	
CHECKED BY:	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
10/20/2021 PLANS ONLY	

UTILITY CONSTRUCTION
 DOCUMENT NOT CONSIDERED FINAL
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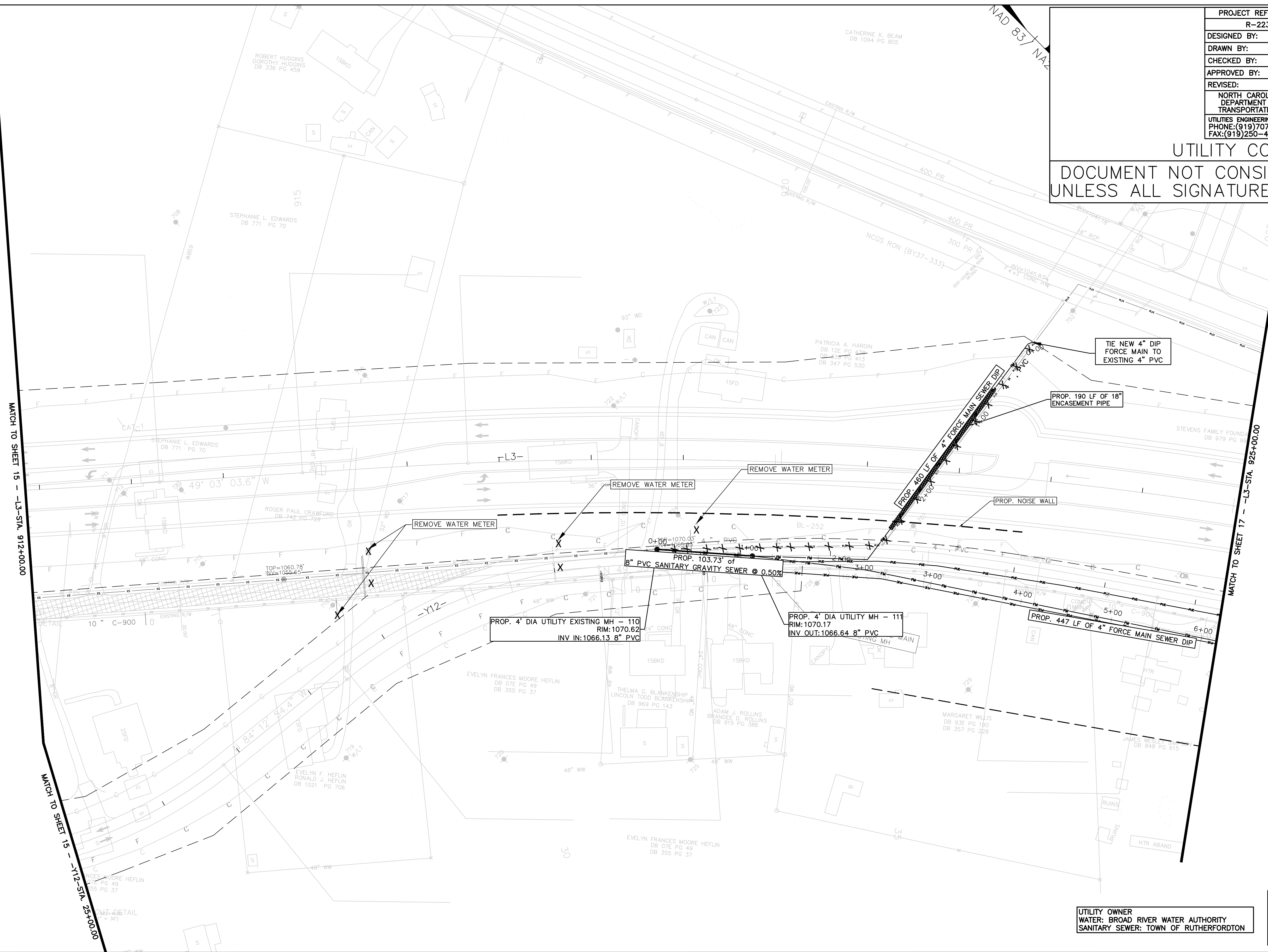
UTILITY OWNER
 WATER: BROAD RIVER WATER AUTHORITY
 SANITARY SEWER: TOWN OF RUTHERFORDTON

PROFILE
 SEE UC-44 FOR SEWER
 ENCASEMENT PIPE PROFILE
 STA. 0 + 00 TO 2 + 72
 SEE UC-45 FOR SEWER PROFILE
 STA. 0 + 00 TO 12 + 13

PROJECT REFERENCE NO.	SHEET NO.
R-2233BB	UC-16
DESIGNED BY:	
DRAWN BY:	
CHECKED BY:	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
PLANS ONLY	

UTILITY CONSTRUCTION

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED




MATCH TO SHEET 15 - L3-STA. 912+00.00

MATCH TO SHEET 15 - Y12-STA. 251+00.00

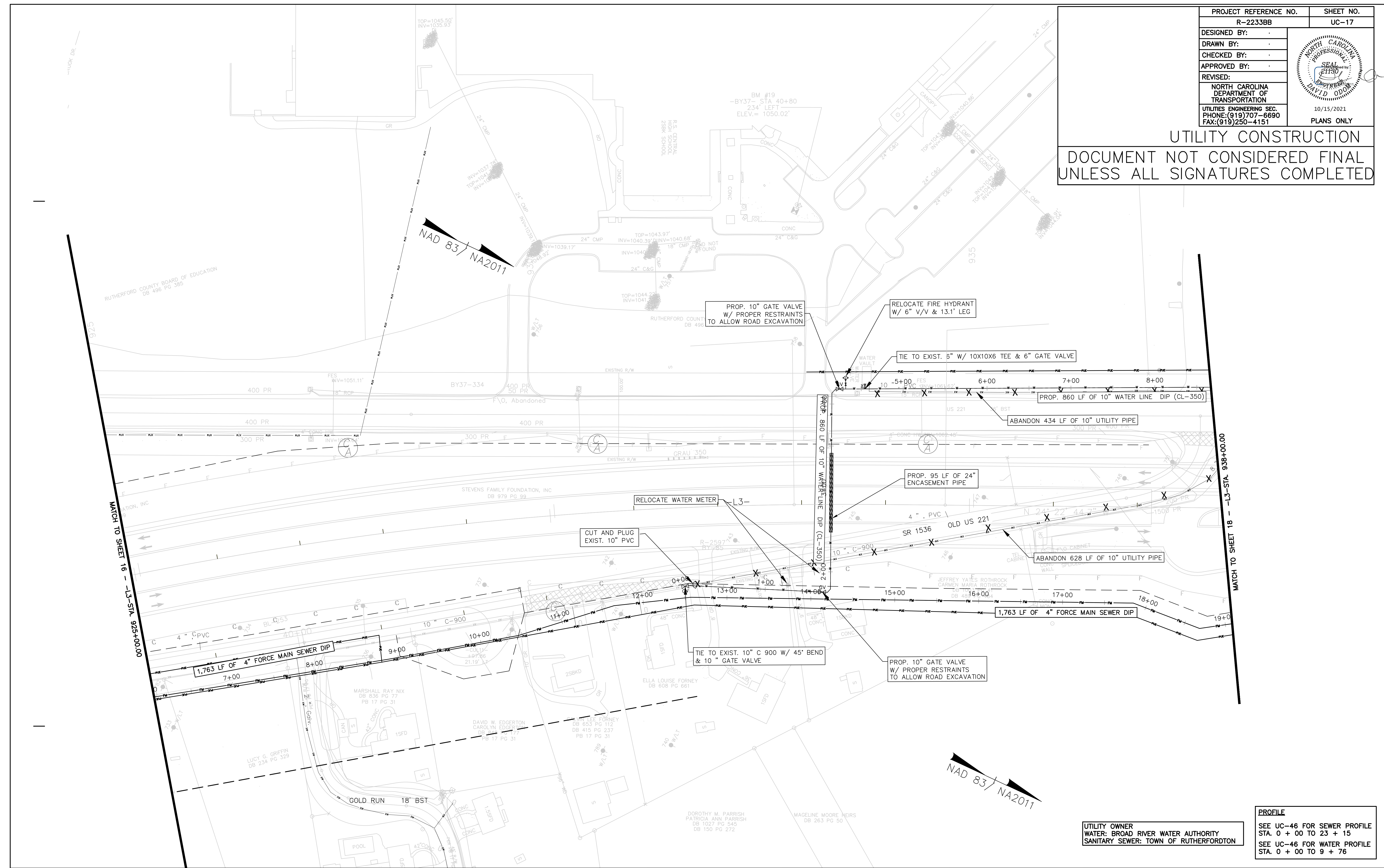
MATCH TO SHEET 17 - L3-STA. 925+00.00

UTILITY OWNER
 WATER: BROAD RIVER WATER AUTHORITY
 SANITARY SEWER: TOWN OF RUTHERFORDTON

PROFILE
 SEE UC-45 FOR SEWER PROFILE
 STA. 0 + 00 TO 4 + 22
 SEE UC-46 FOR SEWER PROFILE
 STA. 0 + 00 TO 23 + 15

PROJECT REFERENCE NO.	R-2233BB	SHEET NO.	UC-17
DESIGNED BY:			
DRAWN BY:			
CHECKED BY:			
APPROVED BY:			
REVISED:			
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION		10/15/2021	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151		PLANS ONLY	

UTILITY CONSTRUCTION
DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



RUTHERFORD COUNTY BOARD OF EDUCATION
DB 496 PG 385

NAD 83 / NA2011

NAD 83 / NA2011

MATCH TO SHEET 16 - L3-STA. 925+00.00

MATCH TO SHEET 18 - L3-STA. 938+00.00

UTILITY OWNER
WATER: BROAD RIVER WATER AUTHORITY
SANITARY SEWER: TOWN OF RUTHERFORDTON

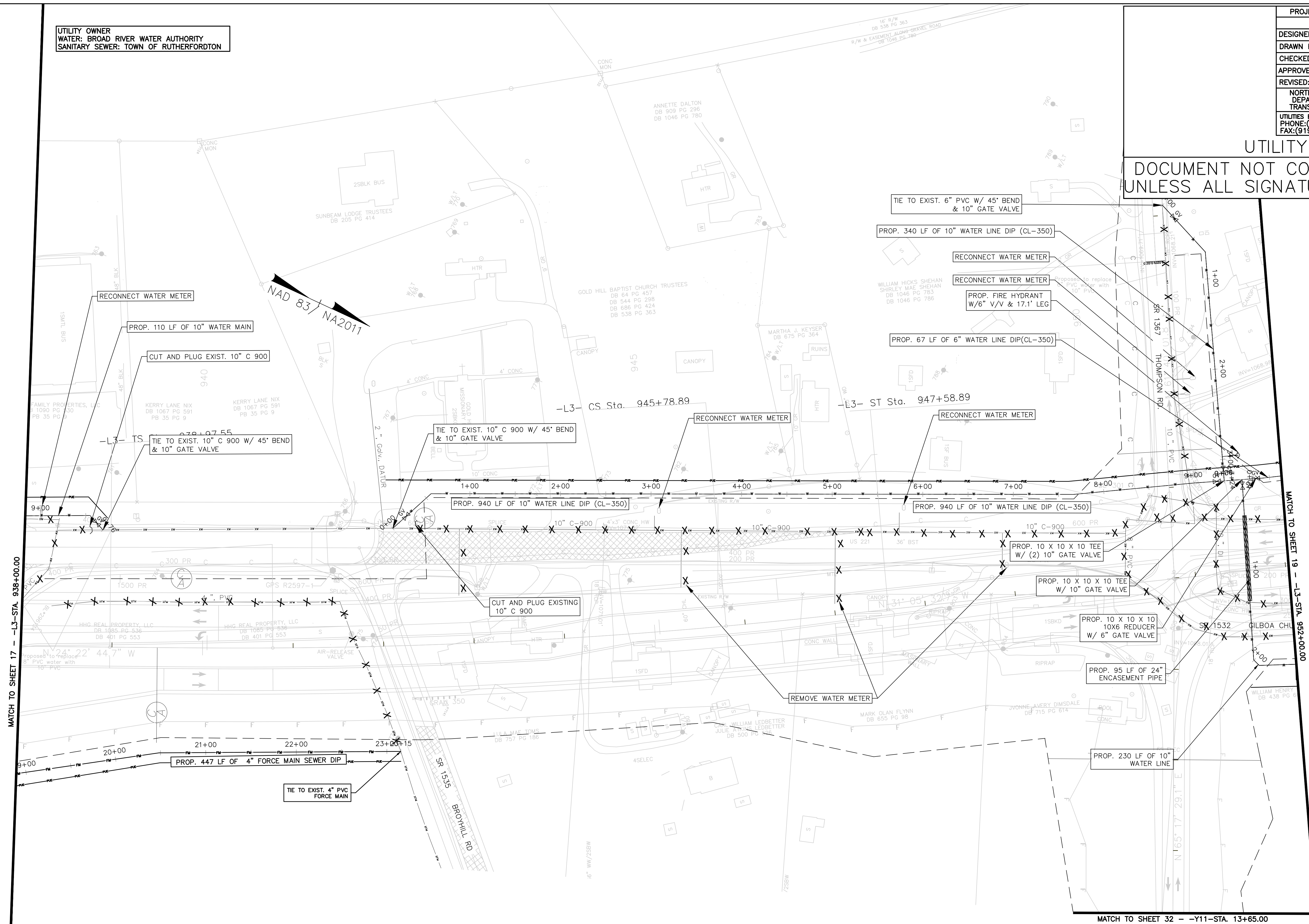
PROFILE
SEE UC-46 FOR SEWER PROFILE
STA. 0 + 00 TO 23 + 15
SEE UC-46 FOR WATER PROFILE
STA. 0 + 00 TO 9 + 76

UTILITY OWNER
 WATER: BROAD RIVER WATER AUTHORITY
 SANITARY SEWER: TOWN OF RUTHERFORDTON

PROJECT REFERENCE NO. R-2233BB	SHEET NO. UC-18
DESIGNED BY:	
DRAWN BY:	
CHECKED BY:	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
PLANS ONLY	


UTILITY CONSTRUCTION

DOCUMENT NOT CONSIDERED FINAL
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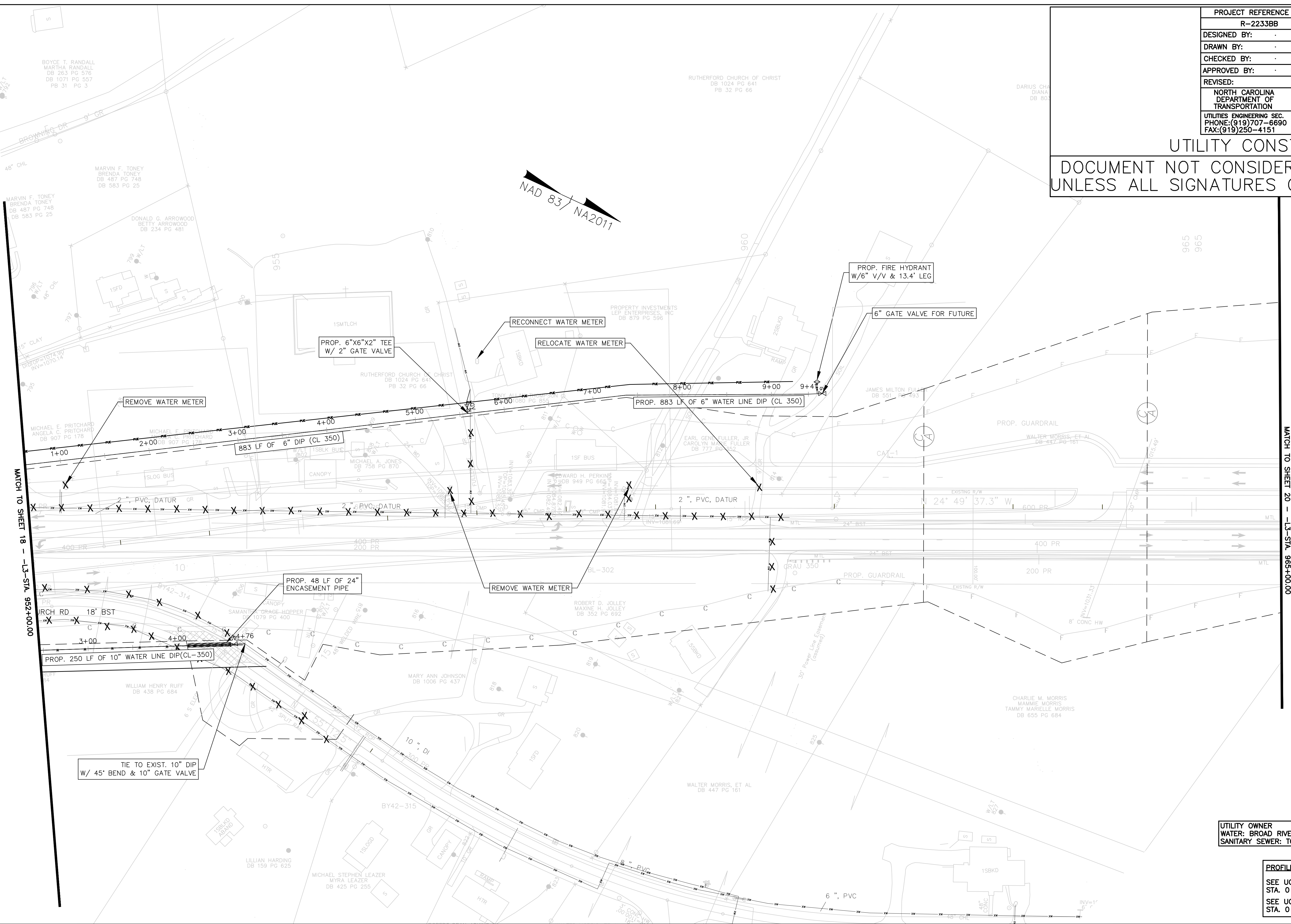
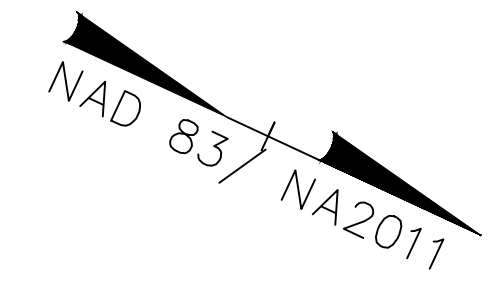


PROFILE

- SEE UC-46 FOR SEWER PROFILE STA. 0 + 00 TO 23 + 15
- SEE UC-46 FOR WATER PROFILE STA. 0 + 00 TO 9 + 76
- SEE UC-47 FOR WATER PROFILE STA. 0 + 00 TO 9 + 34
- SEE UC-47 FOR WATER PROFILE STA. 0 + 00 TO 3 + 24
- SEE UC-47 FOR WATER PROFILE STA. 0 + 00 TO 9 + 41
- SEE UC-47 FOR WATER PROFILE STA. 0 + 00 TO 4 + 76

PROJECT REFERENCE NO.	R-2233BB	SHEET NO.	UC-19
DESIGNED BY:			
DRAWN BY:			
CHECKED BY:			
APPROVED BY:			
REVISED:			
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION		10/15/2021	
UTILITIES ENGINEERING SEC.		PLANS ONLY	
PHONE: (919) 707-6690			
FAX: (919) 250-4151			

UTILITY CONSTRUCTION
DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



MATCH TO SHEET 18 - L3-STA. 952+00.00

MATCH TO SHEET 20 - L3-STA. 965+00.00

UTILITY OWNER
WATER: BROAD RIVER WATER AUTHORITY
SANITARY SEWER: TOWN OF RUTHERFORDTON

PROFILE
 SEE UC-47 FOR SEWER PROFILE
 STA. 0 + 00 TO 9 + 41
 SEE UC-47 FOR WATER PROFILE
 STA. 0 + 00 TO 4 + 76

NAD 83 / NA2011

PROJECT REFERENCE NO.	SHEET NO.
R-2233BB	UC-20
DESIGNED BY:	
DRAWN BY:	
CHECKED BY:	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
PLANS ONLY	

UTILITY CONSTRUCTION

DOCUMENT NOT CONSIDERED FINAL
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MATCH TO SHEET 19 - -L3-STA. 965+00.00

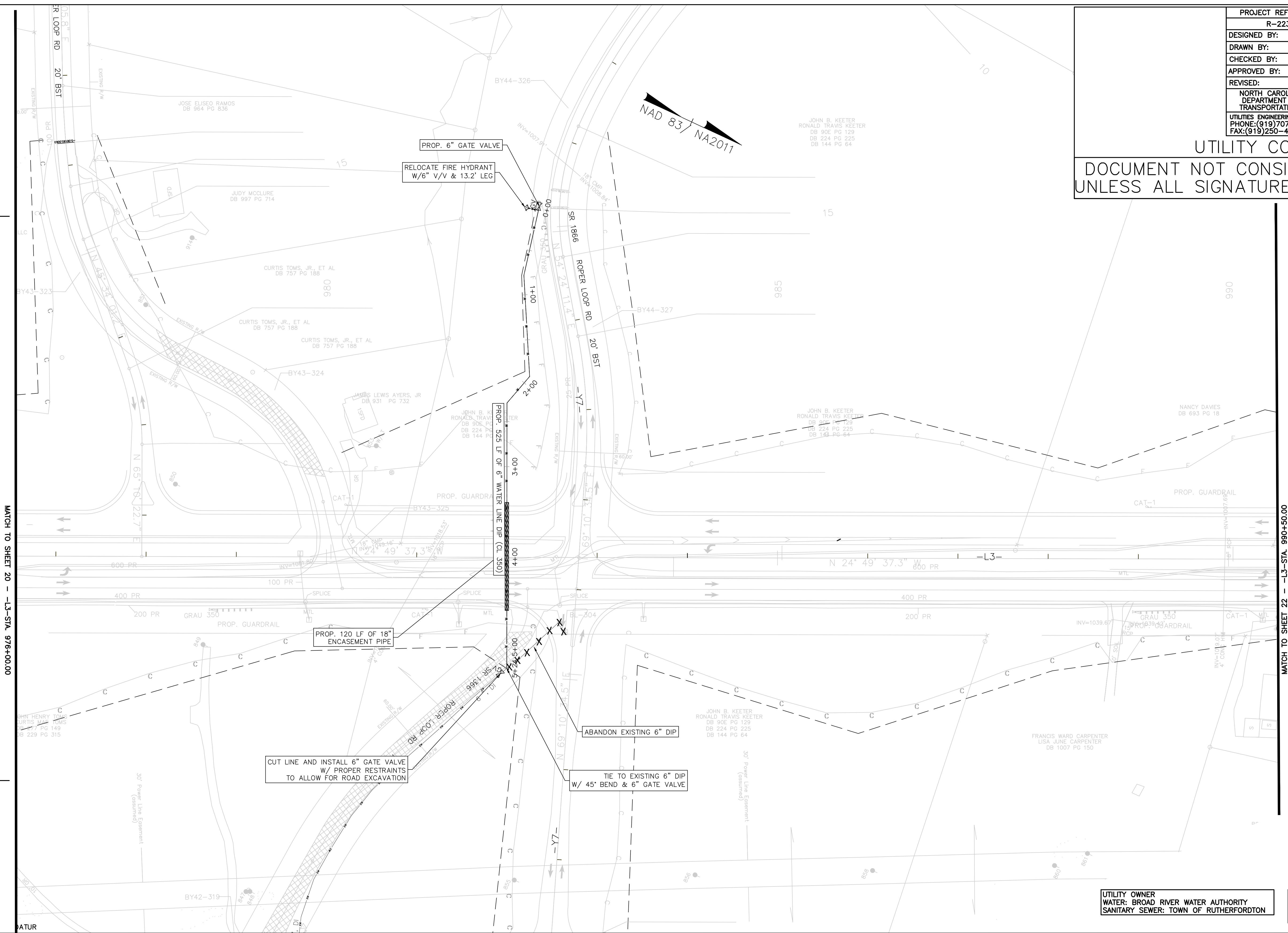
MATCH TO SHEET 21 - -L3-STA. 976+50.00

UTILITY OWNER
 WATER: BROAD RIVER WATER AUTHORITY
 SANITARY SEWER: TOWN OF RUTHERFORDTON

PROJECT REFERENCE NO.	SHEET NO.
R-2233BB	UC-21
DESIGNED BY:	
DRAWN BY:	
CHECKED BY:	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
PLANS ONLY	

UTILITY CONSTRUCTION

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED




MATCH TO SHEET 20 - -L3--STA. 976+00.00

MATCH TO SHEET 22 - -L3--STA. 990+50.00

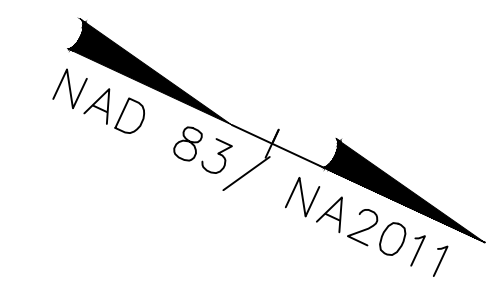
UTILITY OWNER
 WATER: BROAD RIVER WATER AUTHORITY
 SANITARY SEWER: TOWN OF RUTHERFORDTON

PROFILE
 SEE UC-47 FOR WATER PROFILE
 STA. 0 + 00 TO 5 + 24

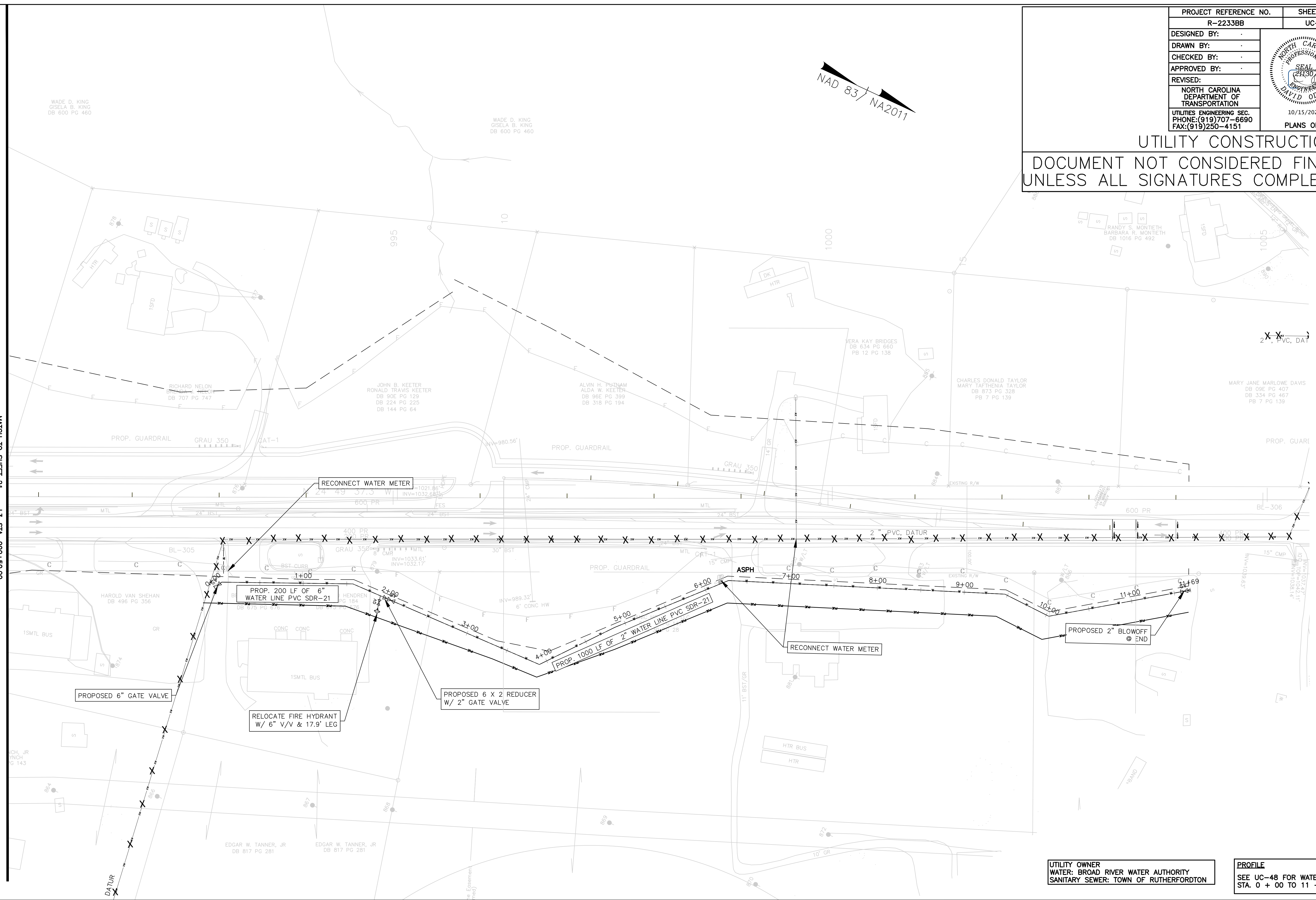
PROJECT REFERENCE NO.	R-2233BB	SHEET NO.	UC-22
DESIGNED BY:			
DRAWN BY:			
CHECKED BY:			
APPROVED BY:			
REVISED:			
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION		10/15/2021	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151		PLANS ONLY	

UTILITY CONSTRUCTION

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED




MATCH TO SHEET 21 - L3-STA. 990+50.00



UTILITY OWNER
WATER: BROAD RIVER WATER AUTHORITY
SANITARY SEWER: TOWN OF RUTHERFORDTON

PROFILE
SEE UC-48 FOR WATER PROFILE
STA. 0 + 00 TO 11 + 69

PROJECT REFERENCE NO.	SHEET NO.
R-2233BB	UC-23
DESIGNED BY:	
DRAWN BY:	
CHECKED BY:	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
10/15/2021 PLANS ONLY	

UTILITY CONSTRUCTION
DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

NAD 83/ NA2011

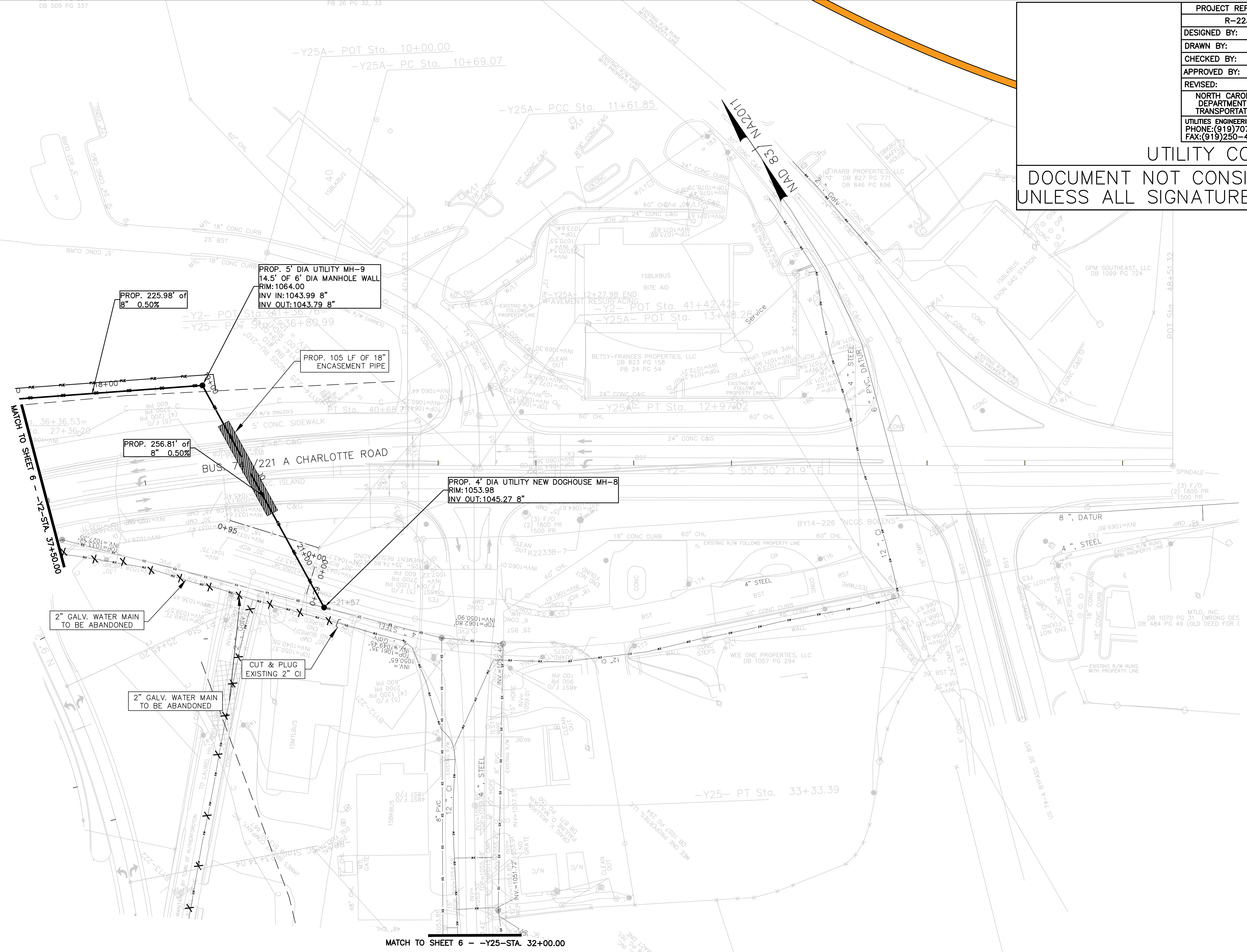


MATCH TO SHEET 6 - 12-STA. 23+00.00

PROFILE
 SEE UC-48 FOR WATER PROFILE
 STA. 0 + 00 TO 1 + 52

PROJECT REFERENCE NO.	SHEET NO.
R-2233BB	UC-24
DESIGNED BY:	
DRAWN BY:	
CHECKED BY:	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
10/15/2021 PLANS ONLY	

UTILITY CONSTRUCTION
 DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED



PROP. 5' DIA UTILITY MH-9
 14.5' OF 6" DIA MANHOLE WALL
 RIM: 1064.00
 INV IN: 1043.99 8"
 INV OUT: 1043.79 8"

PROP. 225.98' of
 8" 0.50%

PROP. 105 LF OF 18"
 ENCASUREMENT PIPE

PROP. 256.81' of
 8" 0.50%

PROP. 4' DIA UTILITY NEW DOGHOUSE MH-8
 RIM: 1053.98
 INV OUT: 1045.27 8"

2" GALV. WATER MAIN
 TO BE ABANDONED

2" GALV. WATER MAIN
 TO BE ABANDONED

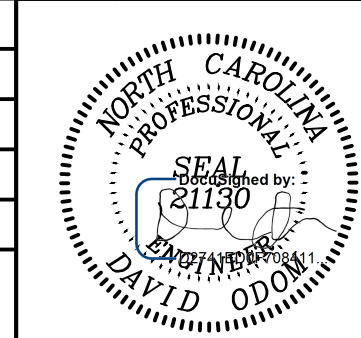
CUT & PLUG
 EXISTING 2" CI

MATCH TO SHEET 6 --Y25--STA. 32+00.00

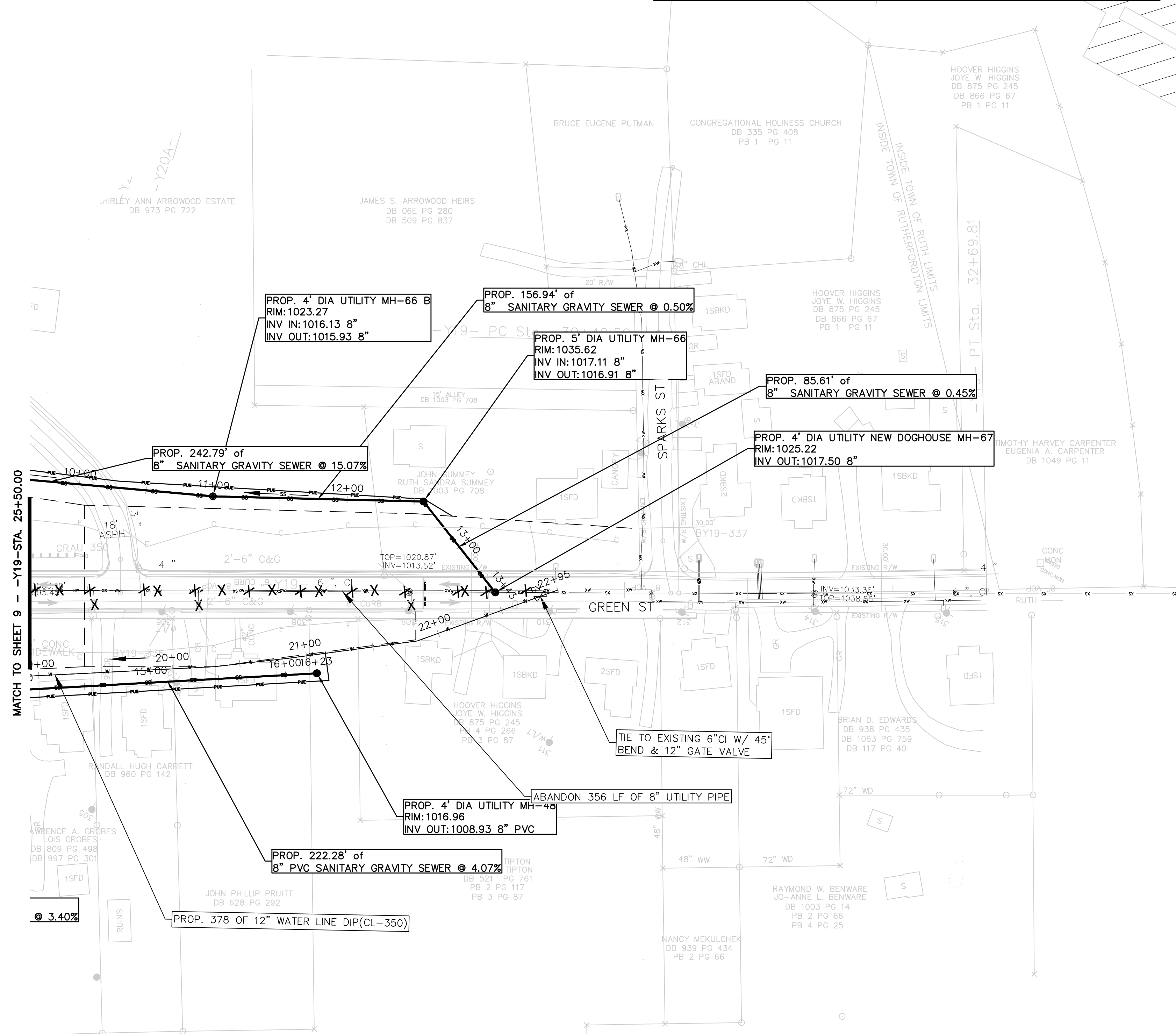
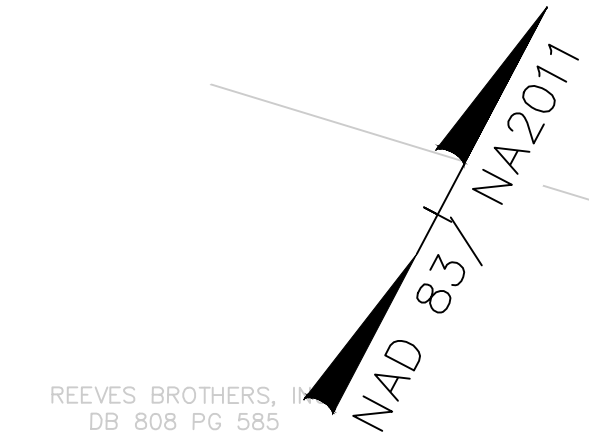
MATCH TO SHEET 6 --Y2--STA. 37+50.00

UTILITY OWNER
 WATER: BROAD RIVER WATER AUTHORITY
 SANITARY SEWER: TOWN OF RUTHERFORDTON

PROFILE
 SEE UC-34 & UC-35 FOR
 SEWER PROFILE
 STA. 0 + 00 TO 21 + 17


PROJECT REFERENCE NO.	R-2233BB	SHEET NO.	UC-26
DESIGNED BY:			
DRAWN BY:			
CHECKED BY:			
APPROVED BY:			
REVISED:			
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION		10/20/2021	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151		PLANS ONLY	

UTILITY CONSTRUCTION
DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



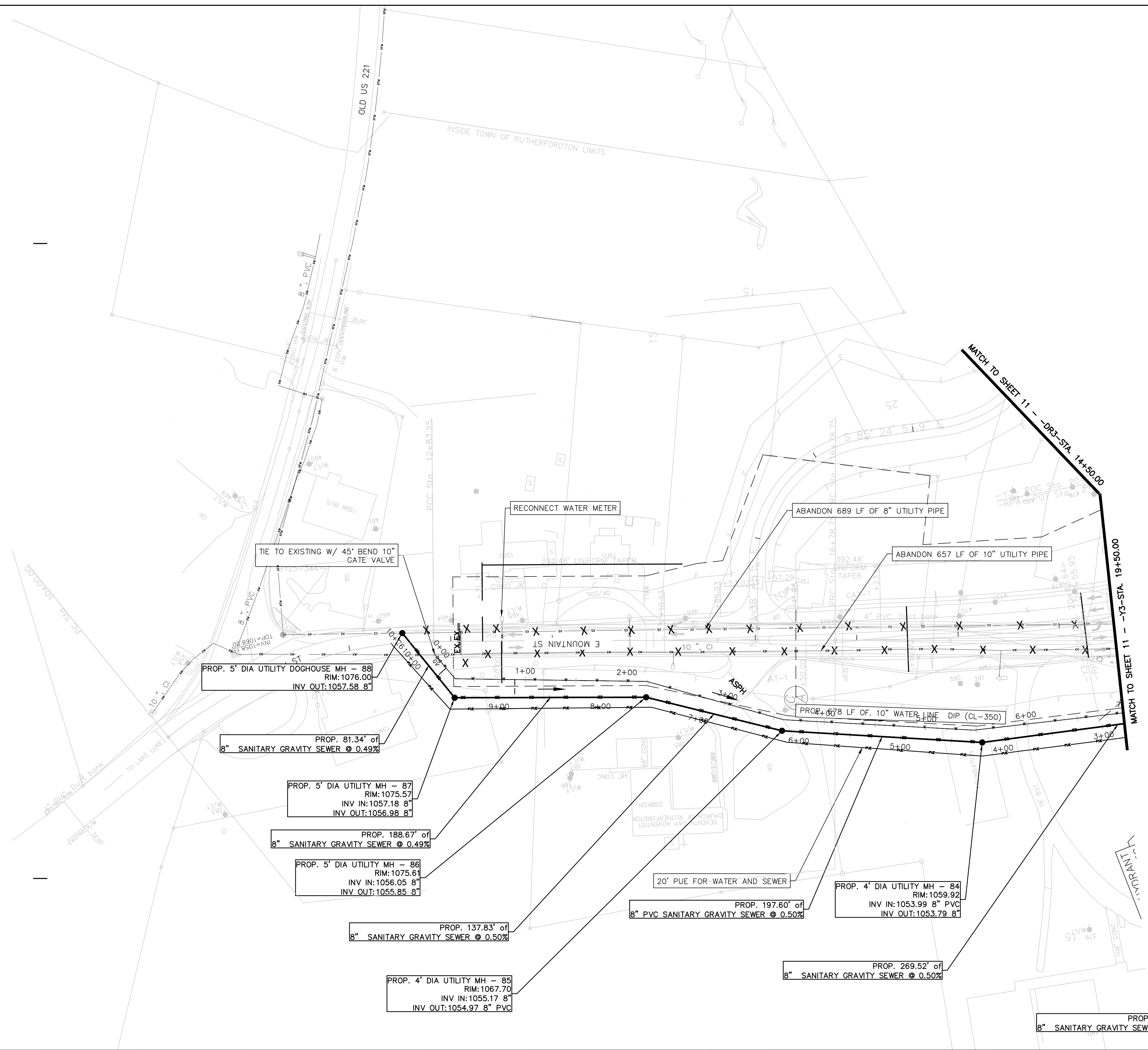
PROFILE
SEE UC-37 & UC-38 FOR WATER PROFILE
STA. 0 + 00 TO 22 + 64
SEE UC-39 & UC-40 FOR SEWER PROFILE
STA. 0 + 00 TO 16 + 23
SEE UC-42 FOR SEWER PROFILE
STA. 0 + 00 TO 4 + 09
SEE UC-41 FOR SEWER PROFILE
STA. 0 + 00 TO 13 + 43

UTILITY OWNER
WATER: BROAD RIVER WATER AUTHORITY
SANITARY SEWER: TOWN OF RUTHERFORDTON

PROJECT REFERENCE NO.	R-2233BB	SHEET NO.	UC-27
DESIGNED BY:			
DRAWN BY:			
CHECKED BY:			
APPROVED BY:			
REVISED:			
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION		10/20/2021	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151		PLANS ONLY	


UTILITY CONSTRUCTION

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UTILITY OWNER
WATER: BROAD RIVER WATER AUTHORITY
SANITARY SEWER: TOWN OF RUTHERFORDTON

PROFILE
SEE UC-43 FOR WATER PROFILE
STA. 0 + 00 TO 22 + 12
SEE UC-44 FOR SEWER PROFILE
STA. 0 + 00 TO 10 + 23

PROJECT REFERENCE NO.	R-2233BB	SHEET NO.	UC-28
DESIGNED BY:			
DRAWN BY:			
CHECKED BY:			
APPROVED BY:			
REVISD:			
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION		10/15/2021	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151		PLANS ONLY	

UTILITY CONSTRUCTION
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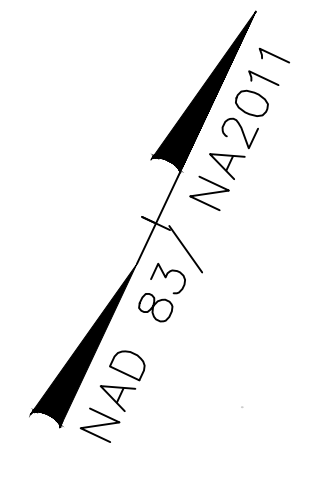
W/ (2) 10" VALVES

UTILITY OWNER
WATER: BROAD RIVER WATER AUTHORITY
SANITARY SEWER: TOWN OF RUTHERFORDTON

PROFILE
SEE UC-43 FOR WATER PROFILE
STA. 0 + 00 TO 6 + 19

PROJECT REFERENCE NO.	SHEET NO.
R-2233BB	UC-29
DESIGNED BY:	
DRAWN BY:	
CHECKED BY:	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
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MATCH TO SHEET 11 -- Y23--STA. 33+60.00

MATCH TO SHEET 30 -- Y6--STA. 24+50.00

MATCH TO SHEET 30 -- Y23A--STA. 49+00.00



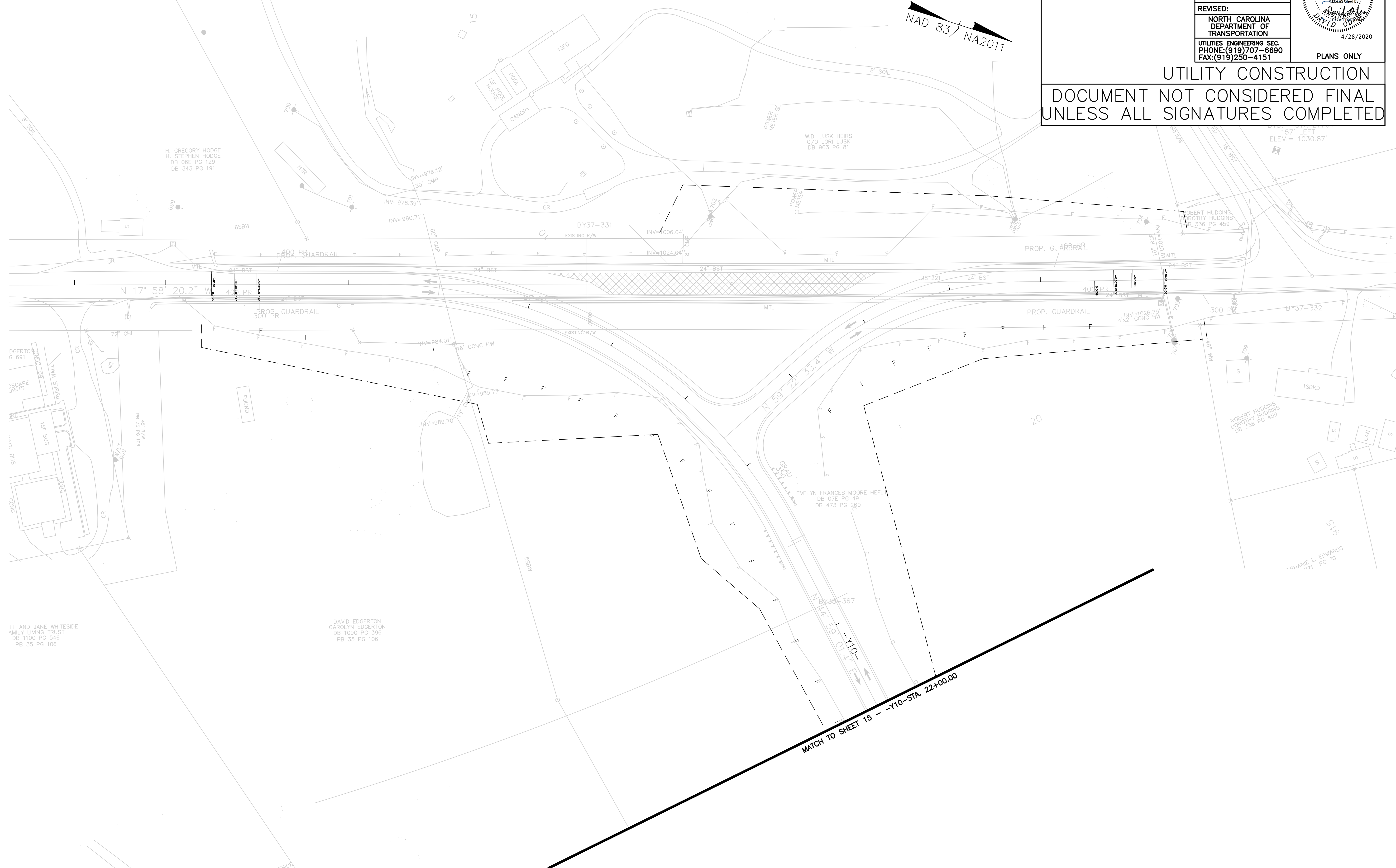
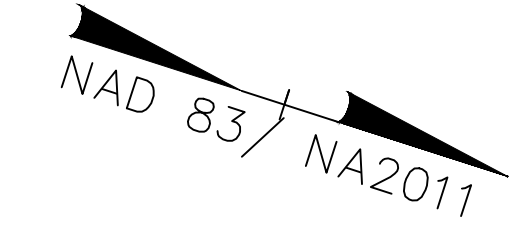
PROJECT REFERENCE NO.	SHEET NO.
R-2233BB	UC-30
DESIGNED BY:	
DRAWN BY:	
CHECKED BY:	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
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PROJECT REFERENCE NO.	SHEET NO.
R-2233BB	UC-31
DESIGNED BY:	
DRAWN BY:	
CHECKED BY:	
APPROVED BY:	
REVISED:	4/28/2020
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
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UTILITY CONSTRUCTION
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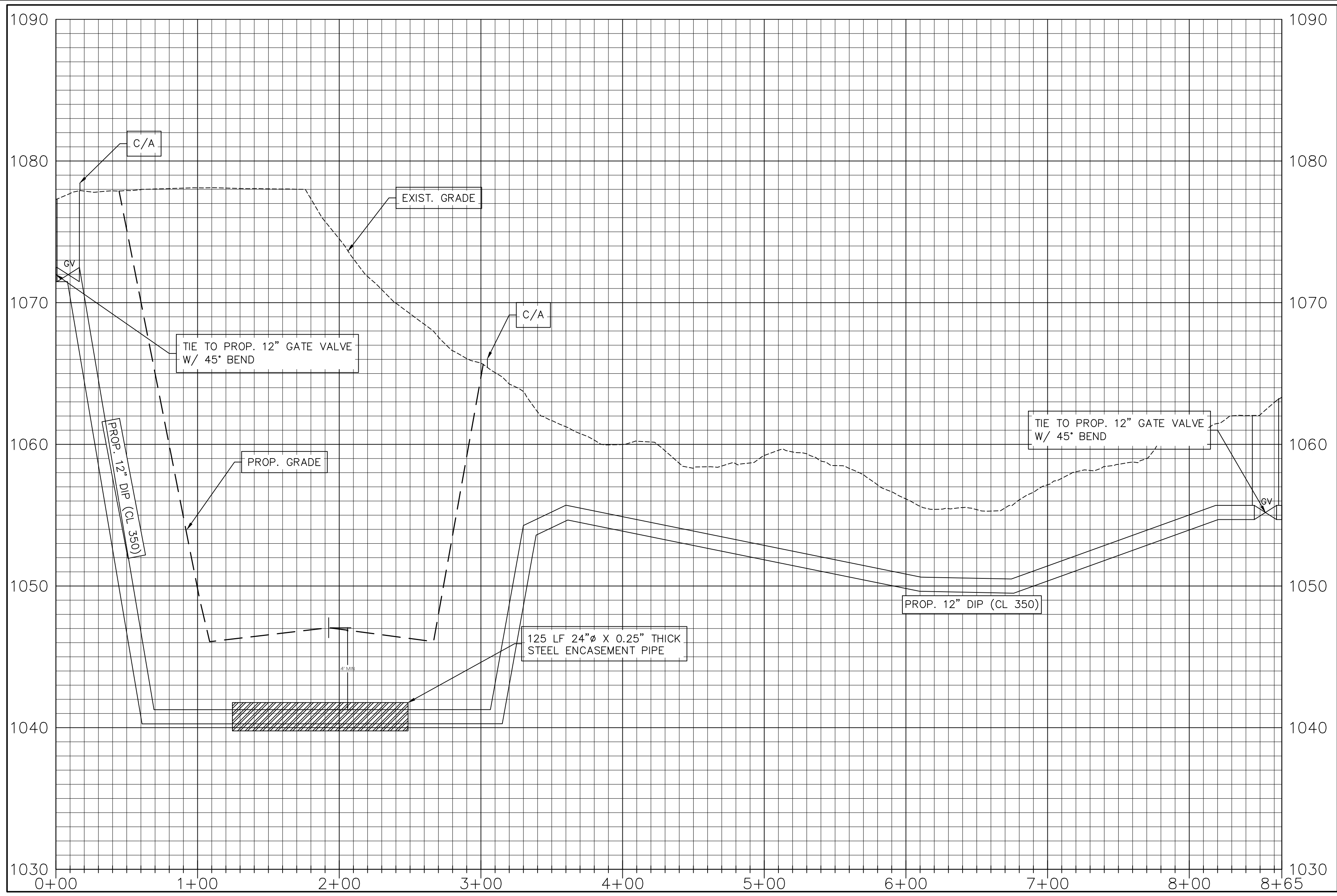
MATCH TO SHEET 15 -- Y10--STA. 22+00.00

PROJECT REFERENCE NO.	SHEET NO.
R-2233BB	UC-32
DESIGNED BY:	
DRAWN BY:	
CHECKED BY:	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
PLANS ONLY	

UTILITY CONSTRUCTION

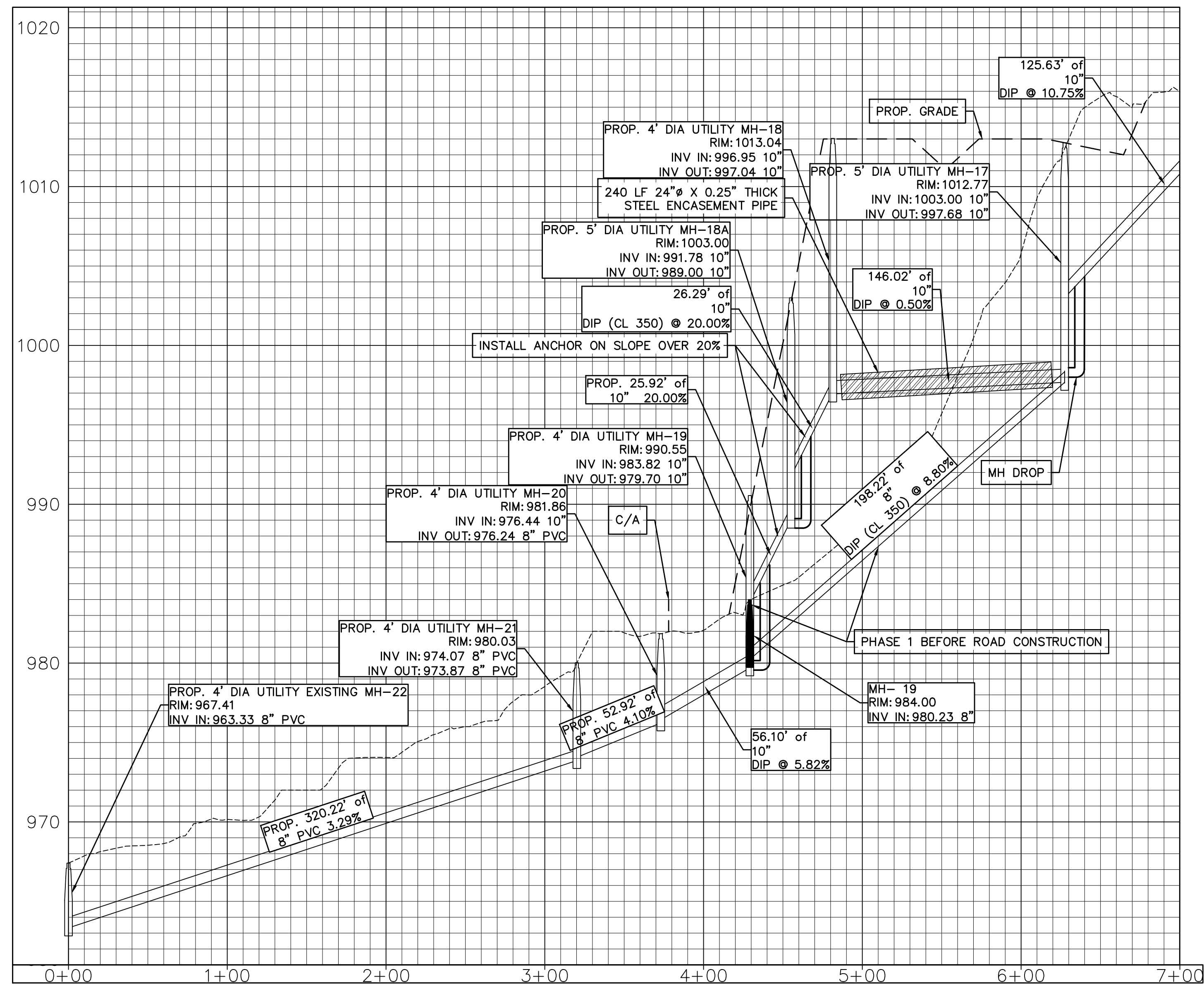
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PROJECT REFERENCE NO. R-2233BB	SHEET NO. UC-33
DESIGNED BY: .	
DRAWN BY: .	
CHECKED BY: .	
APPROVED BY: .	
REVISED:	
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UTILITY CONSTRUCTION
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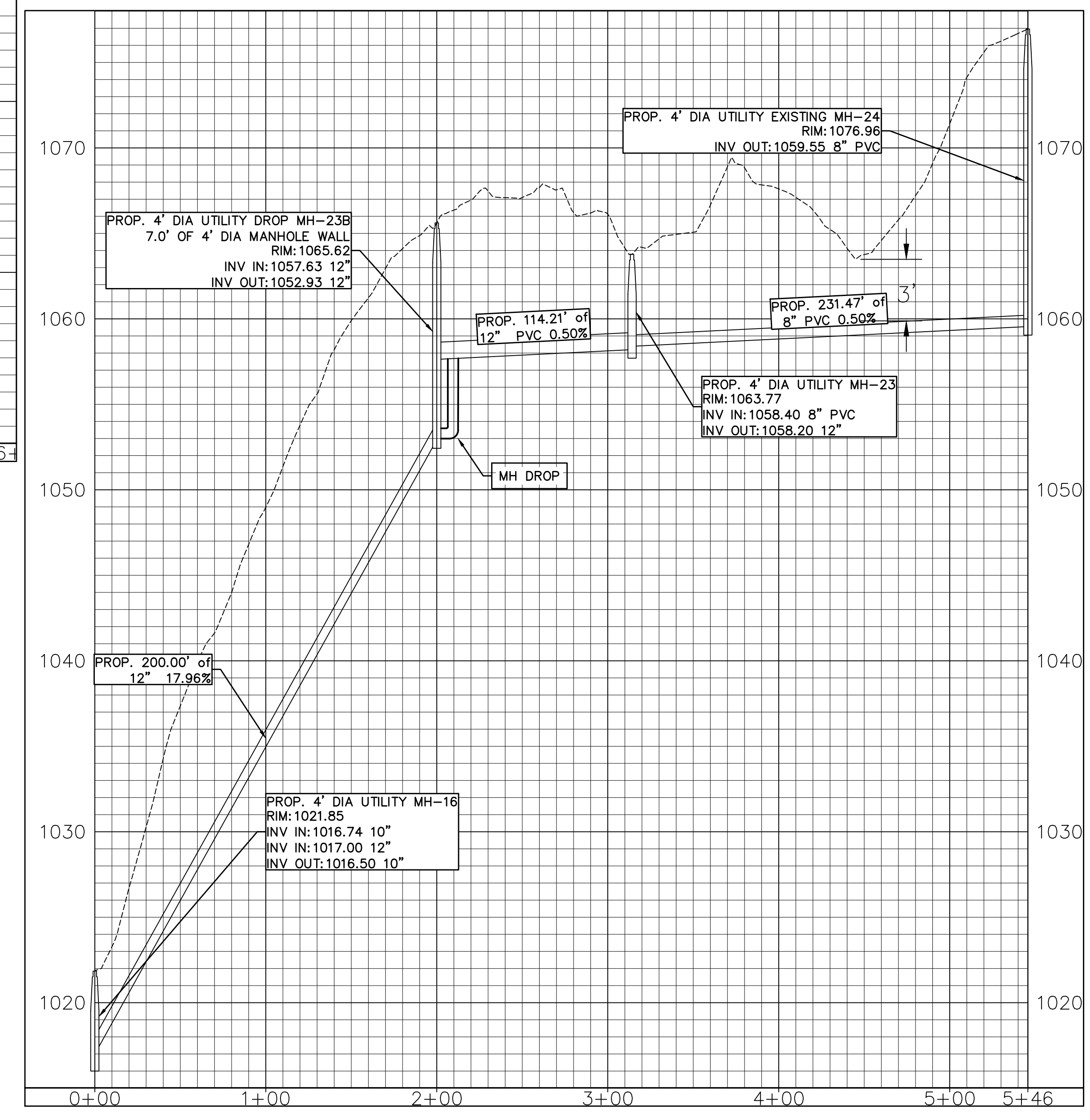
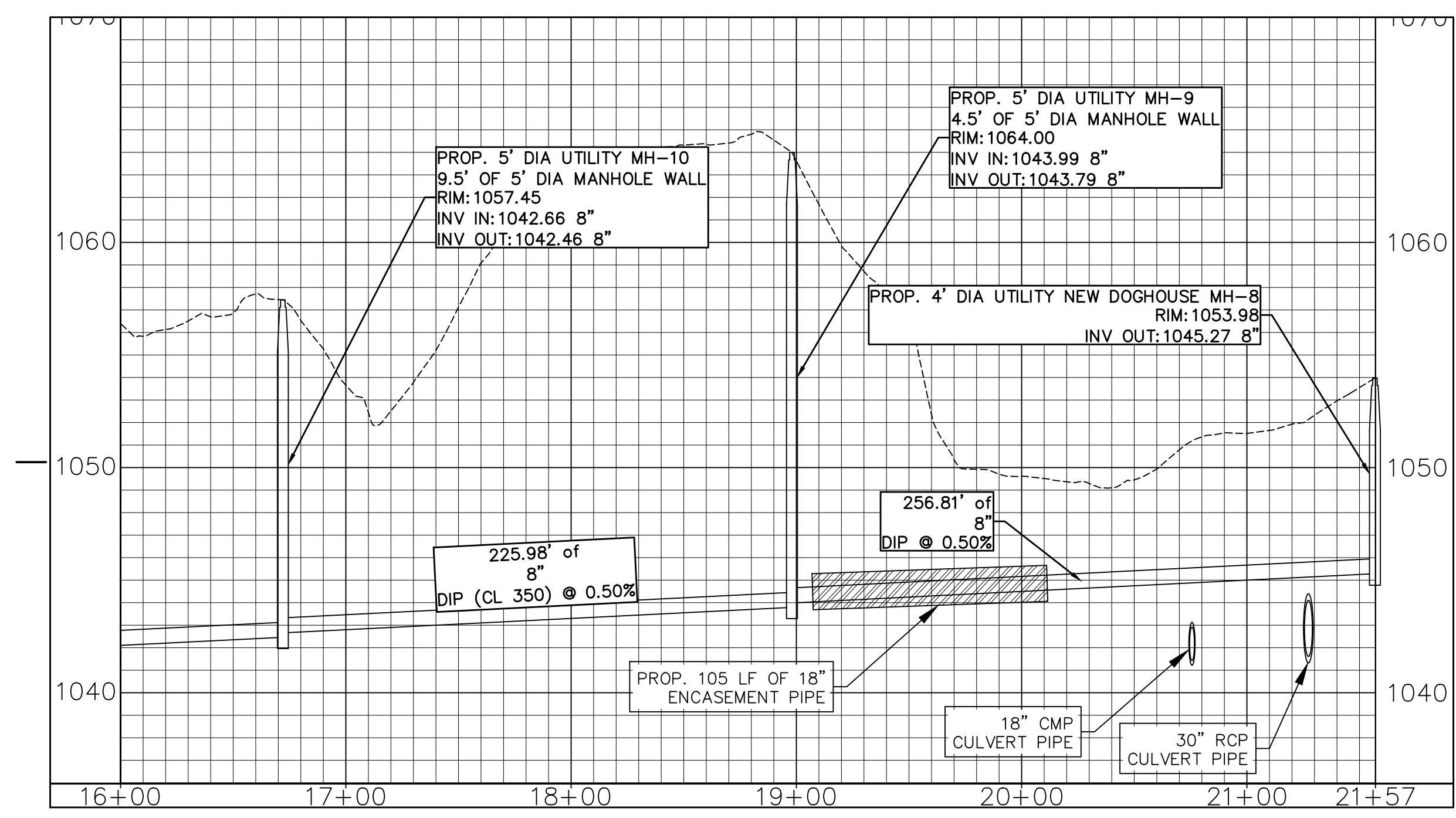
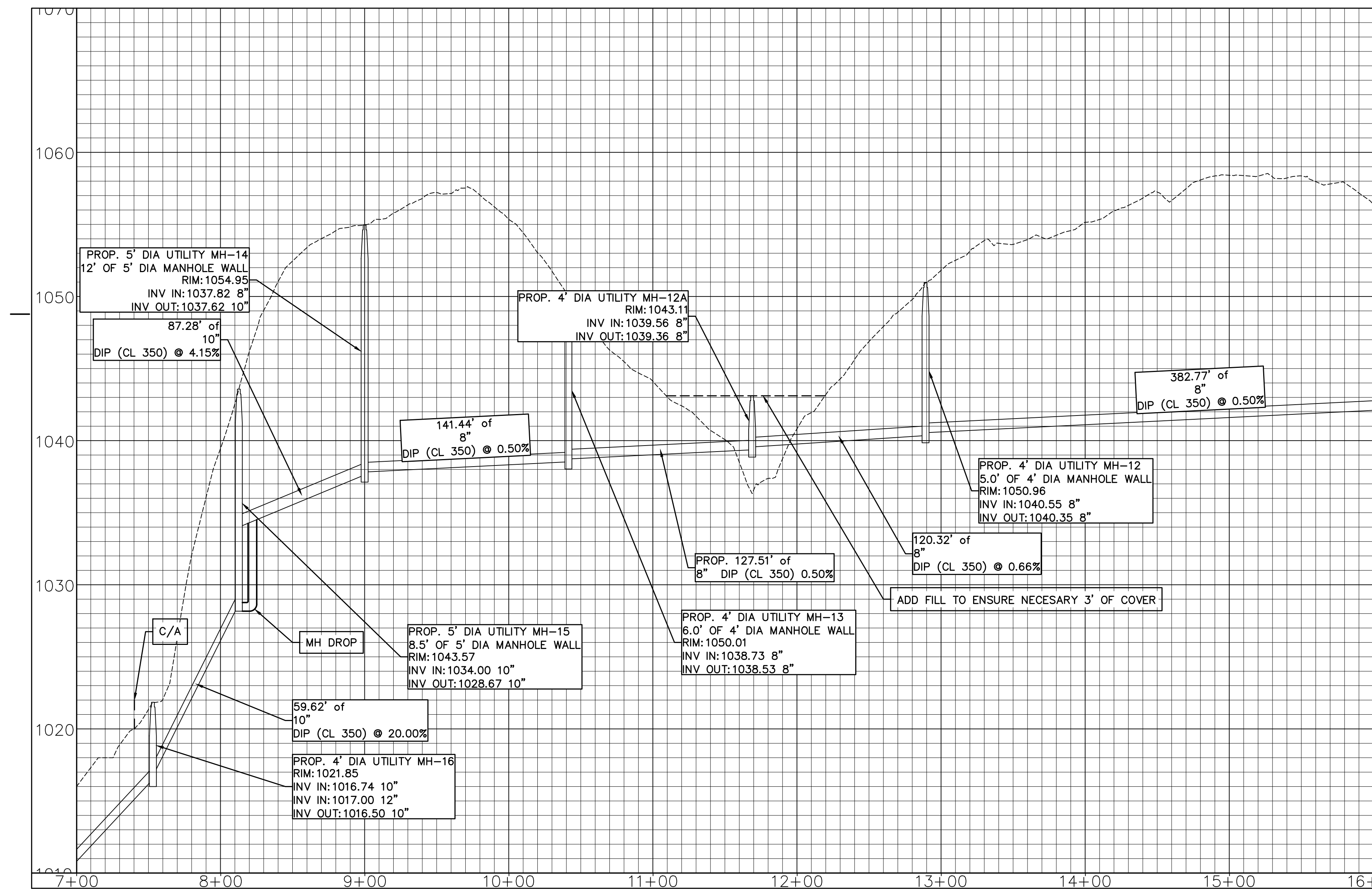
PROJECT REFERENCE NO. R-2233BB	SHEET NO. UC-34
DESIGNED BY:	
DRAWN BY:	
CHECKED BY:	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	

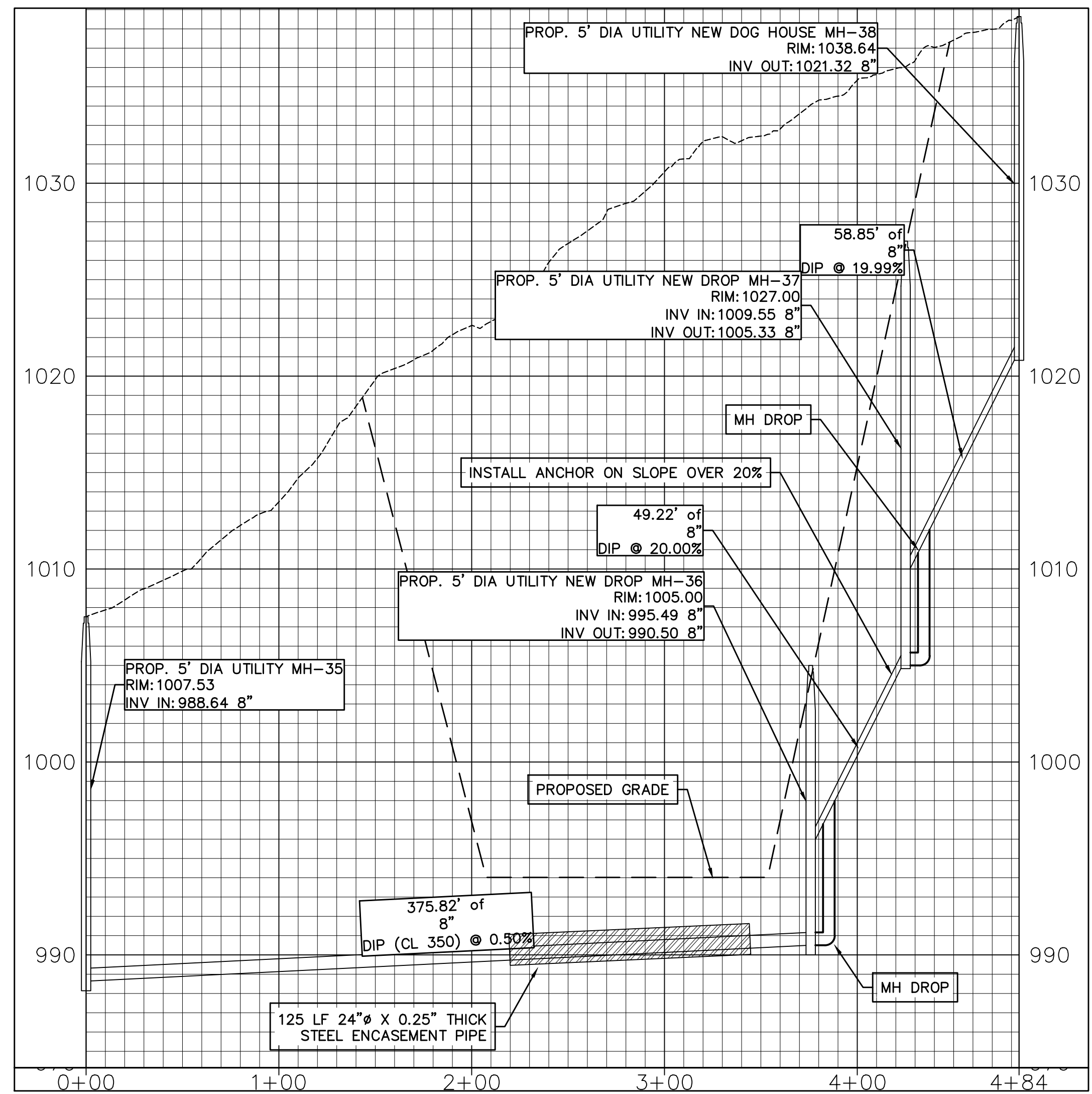
UTILITY CONSTRUCTION

DOCUMENT NOT CONSIDERED FINAL
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PROJECT REFERENCE NO.	R-2233BB	SHEET NO.	UC-35
DESIGNED BY:			
DRAWN BY:			
CHECKED BY:			
APPROVED BY:			
REVISED:			
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION		10/15/2021	PLANS ONLY
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UTILITY CONSTRUCTION
DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

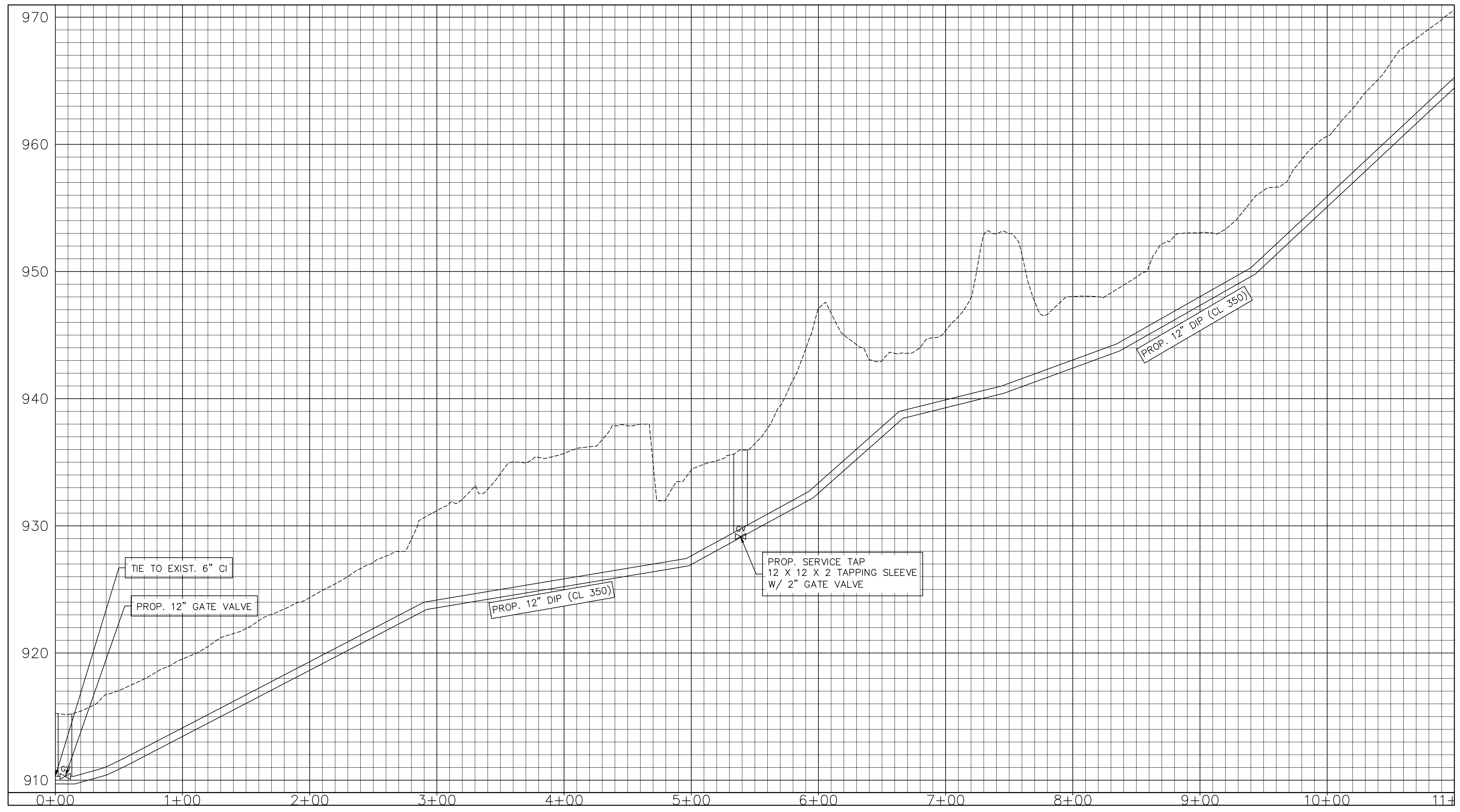




PROJECT REFERENCE NO.	SHEET NO.
R-2233BB	UC-36
DESIGNED BY:	
DRAWN BY:	
CHECKED BY:	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
10/20/2021	
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UTILITY CONSTRUCTION

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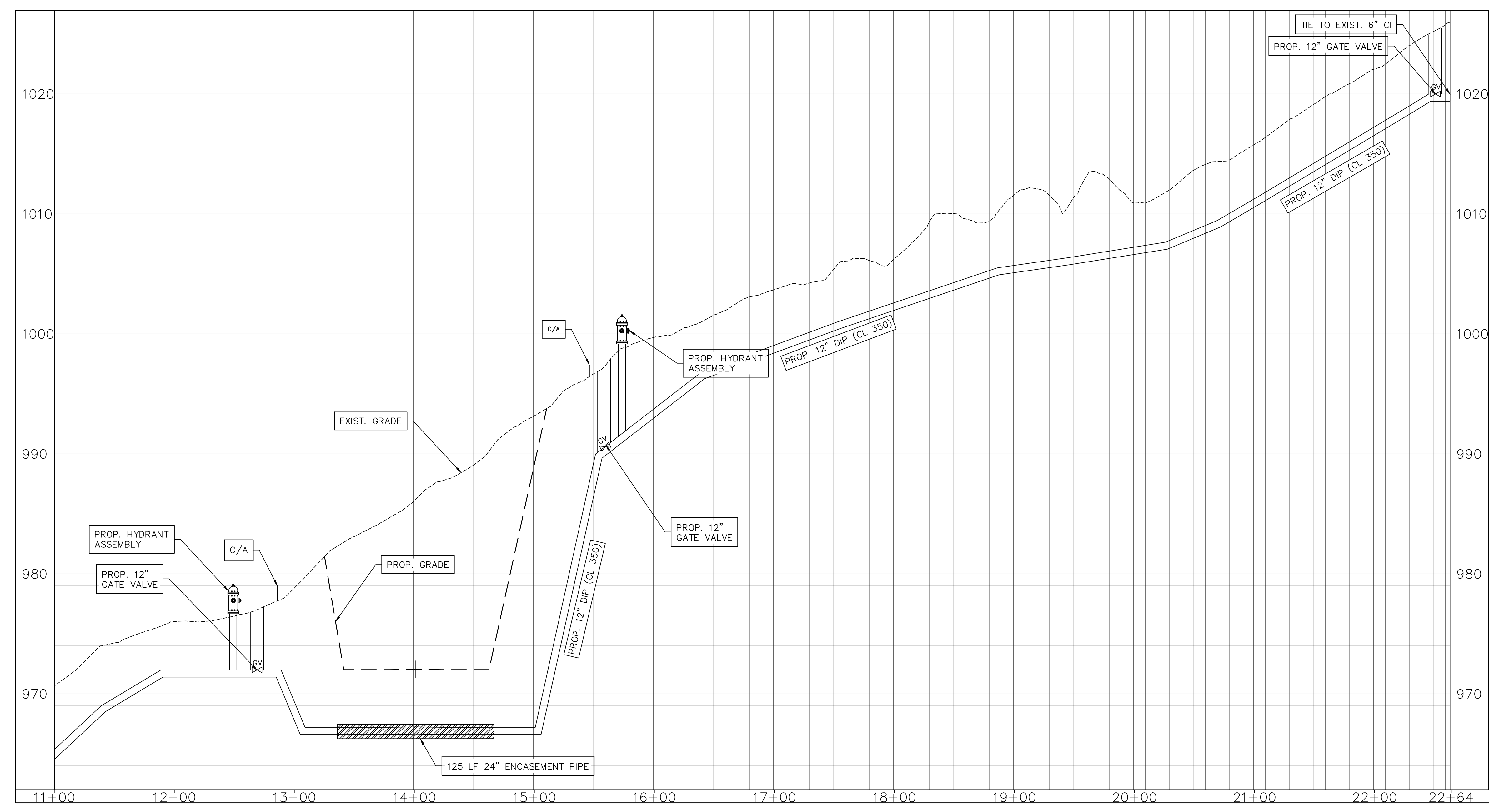
PROJECT REFERENCE NO. R-2233BB	SHEET NO. UC-37
DESIGNED BY: .	
DRAWN BY: .	
CHECKED BY: .	
APPROVED BY: .	
REVISED:	
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4/28/2020	
PLANS ONLY	

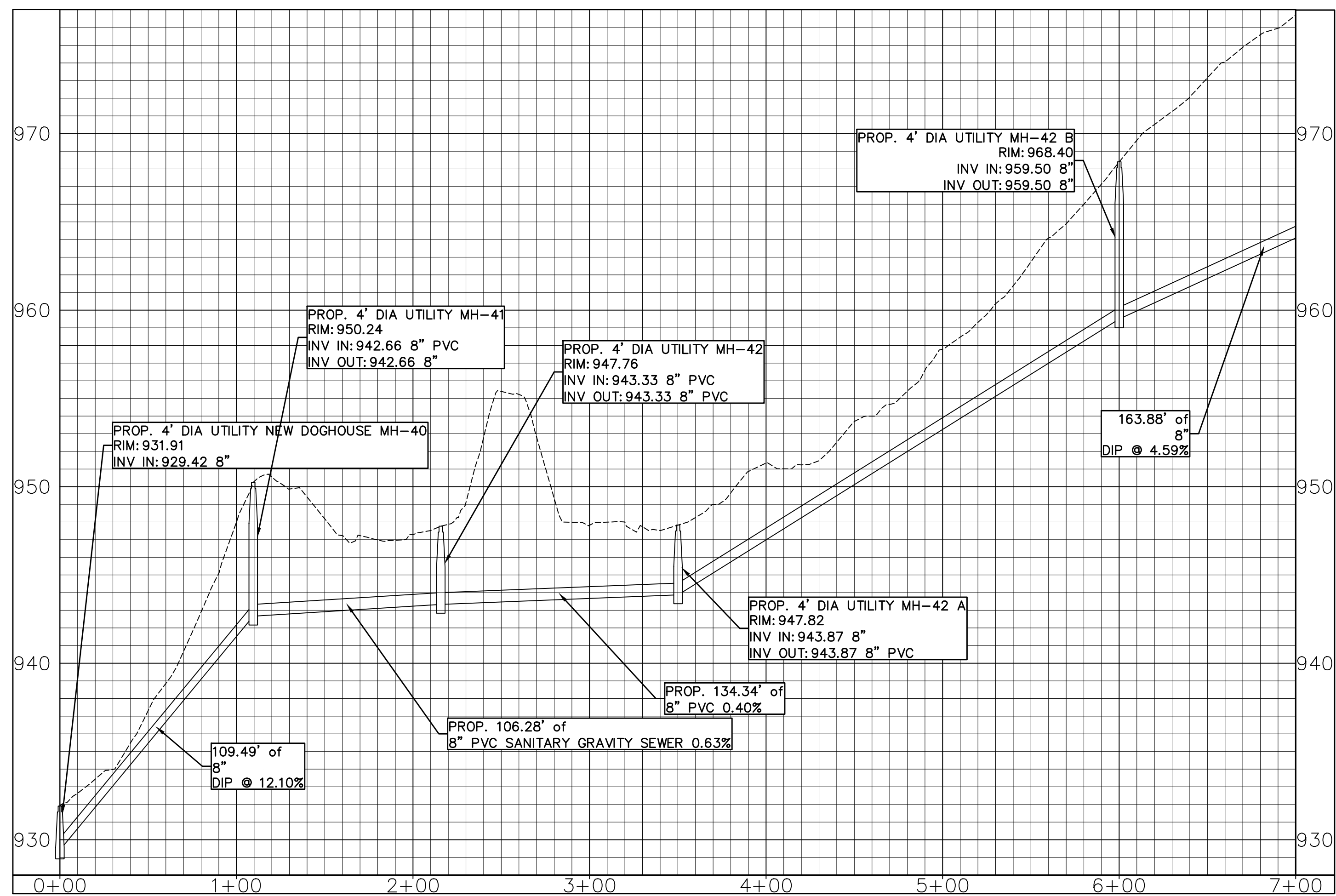
UTILITY CONSTRUCTION

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

PROJECT REFERENCE NO.	SHEET NO.
R-2233BB	UC-38
DESIGNED BY:	
DRAWN BY:	
CHECKED BY:	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
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PROJECT REFERENCE NO. R-2233BB	SHEET NO. UC-39
DESIGNED BY: .	
DRAWN BY: .	
CHECKED BY: .	
APPROVED BY: .	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
PLANS ONLY	

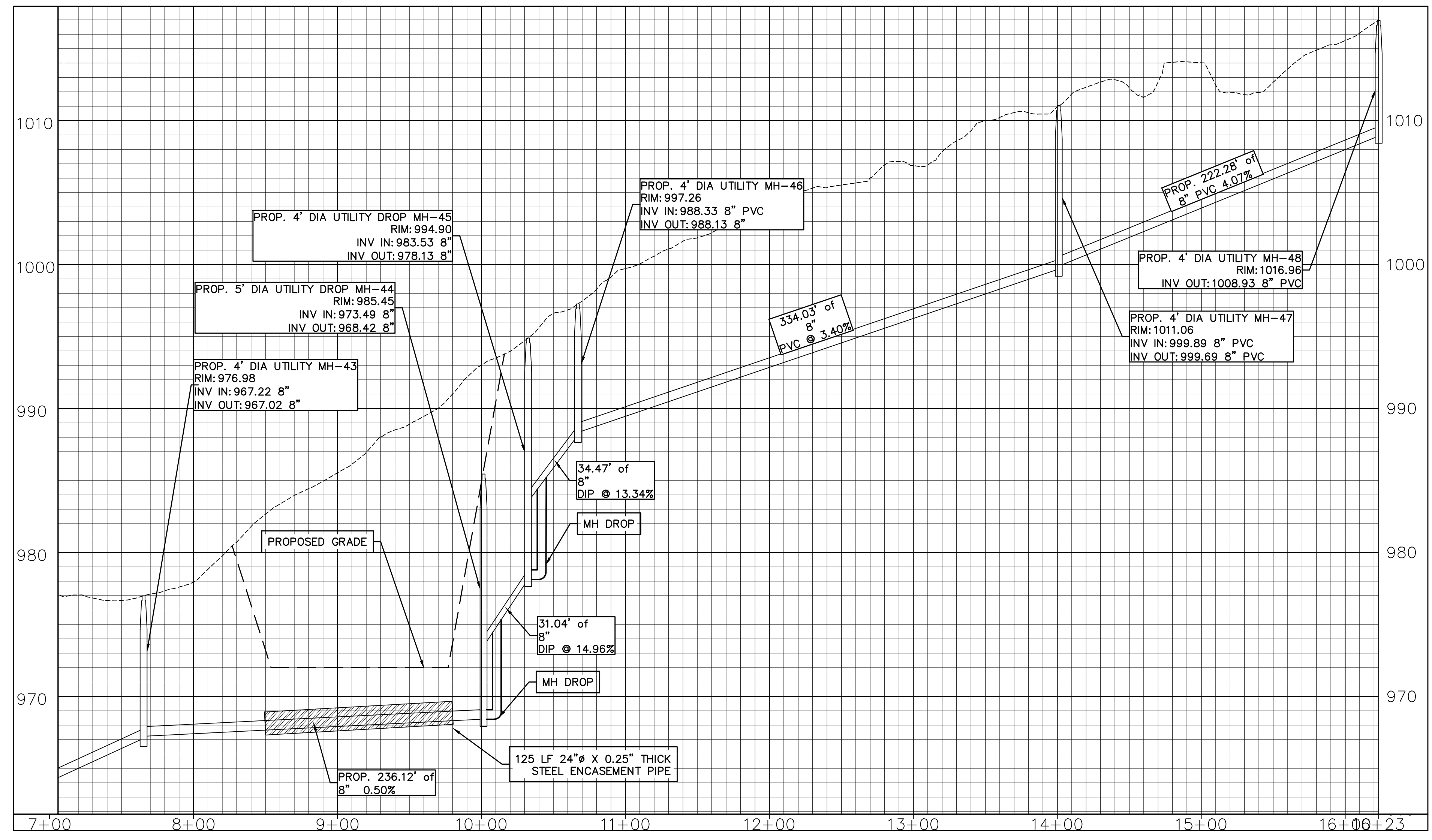
UTILITY CONSTRUCTION


DOCUMENT NOT CONSIDERED FINAL
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PROJECT REFERENCE NO.	SHEET NO.
R-2233BB	UC-40
DESIGNED BY:	
DRAWN BY:	
CHECKED BY:	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE:(919)707-6690 FAX:(919)250-4151	
10/20/2021	
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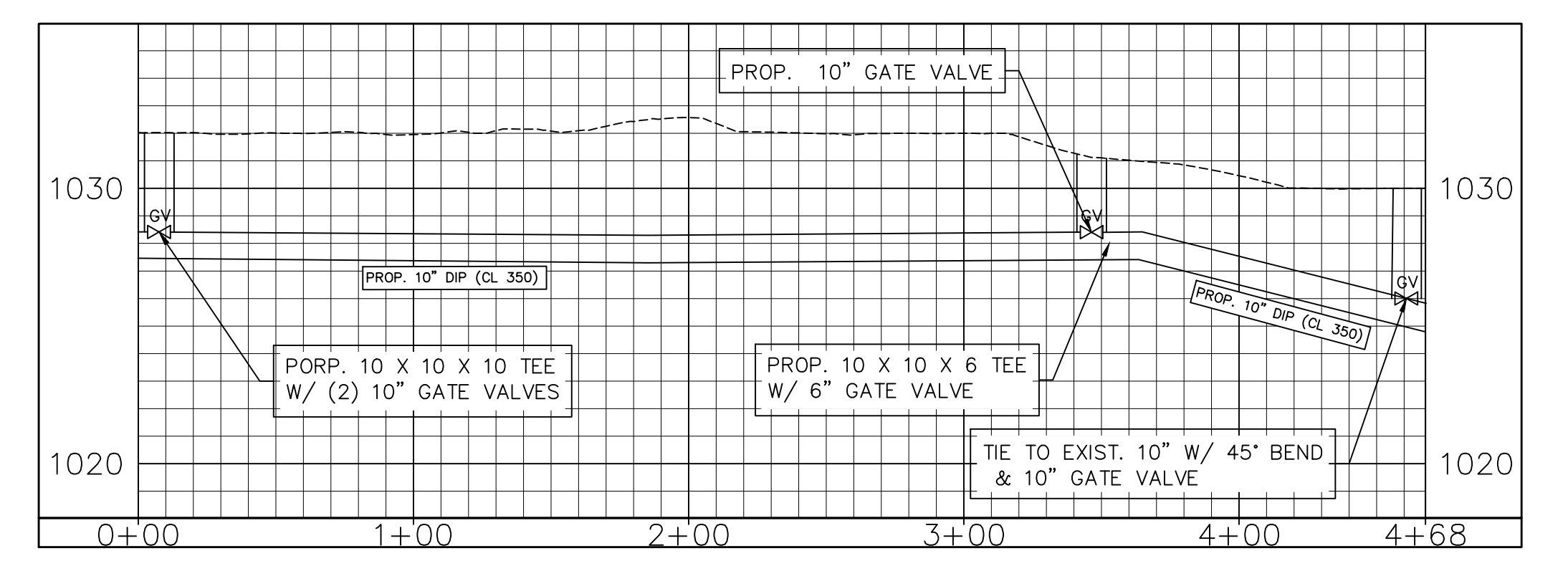
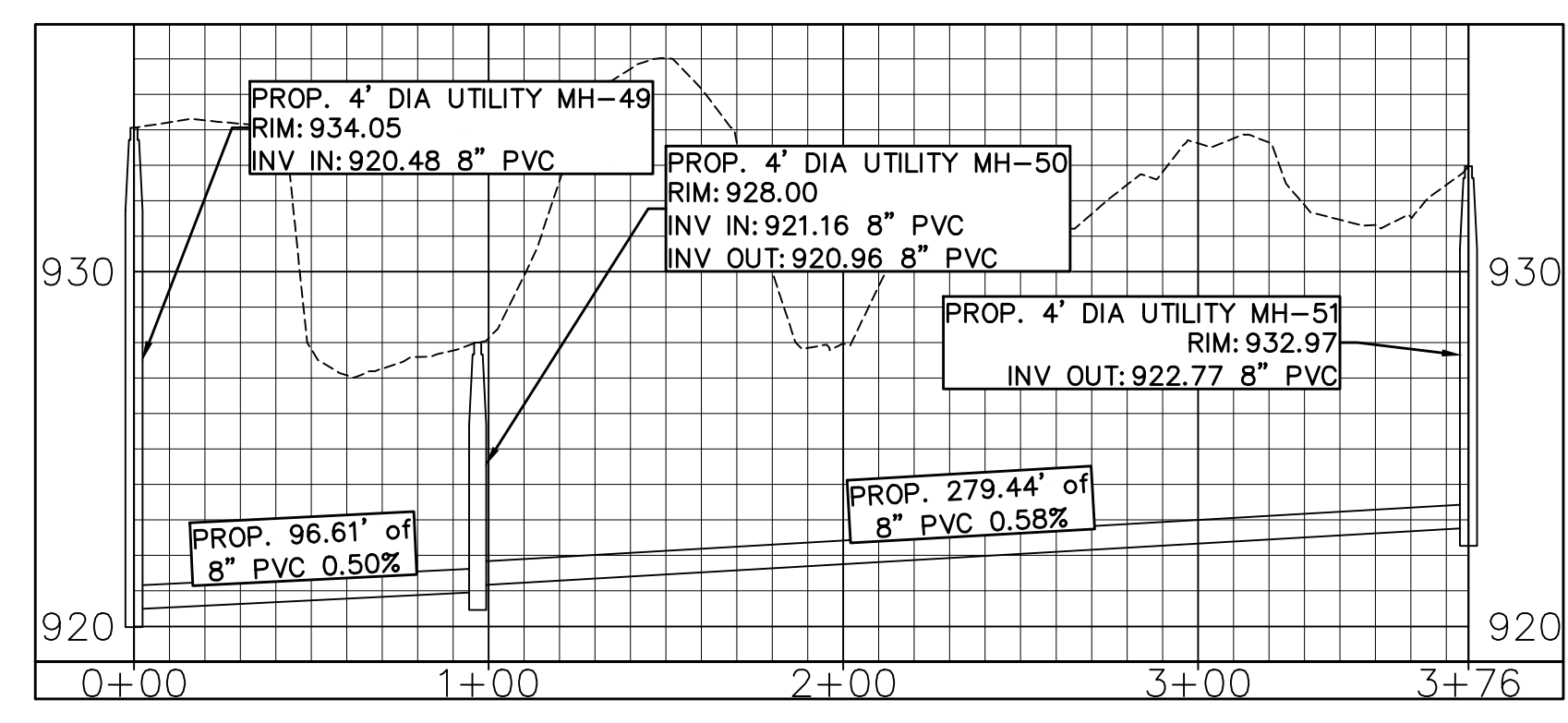
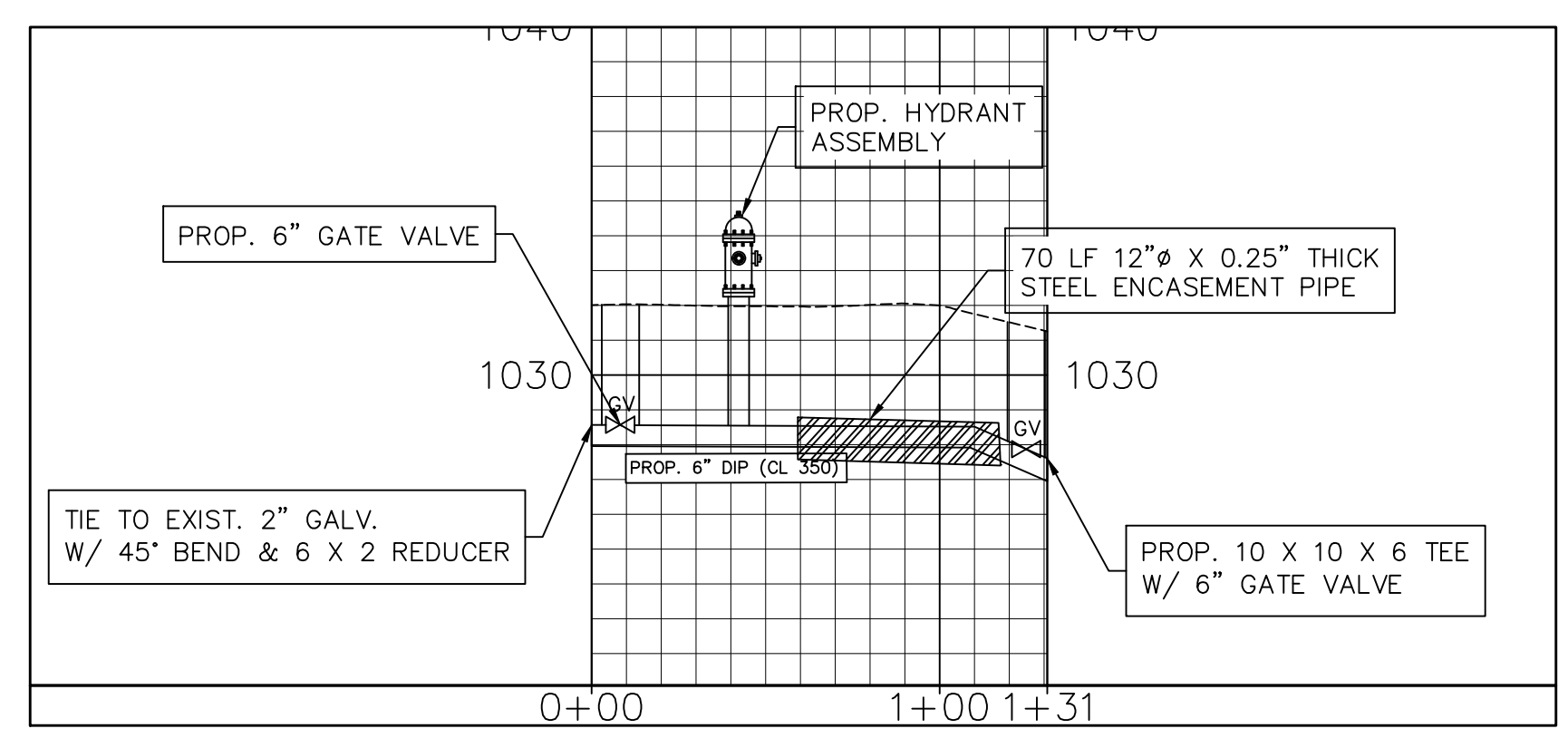
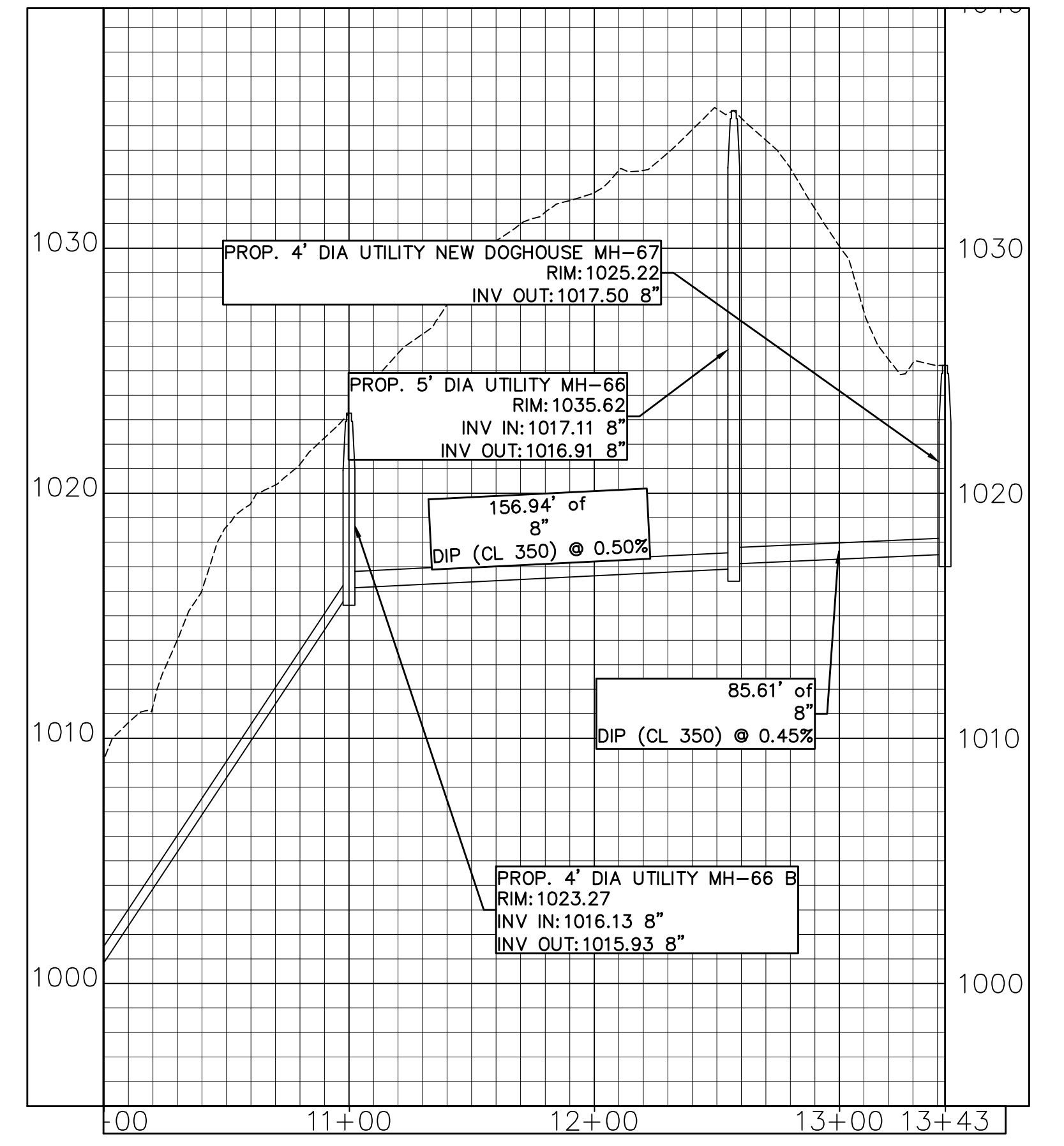
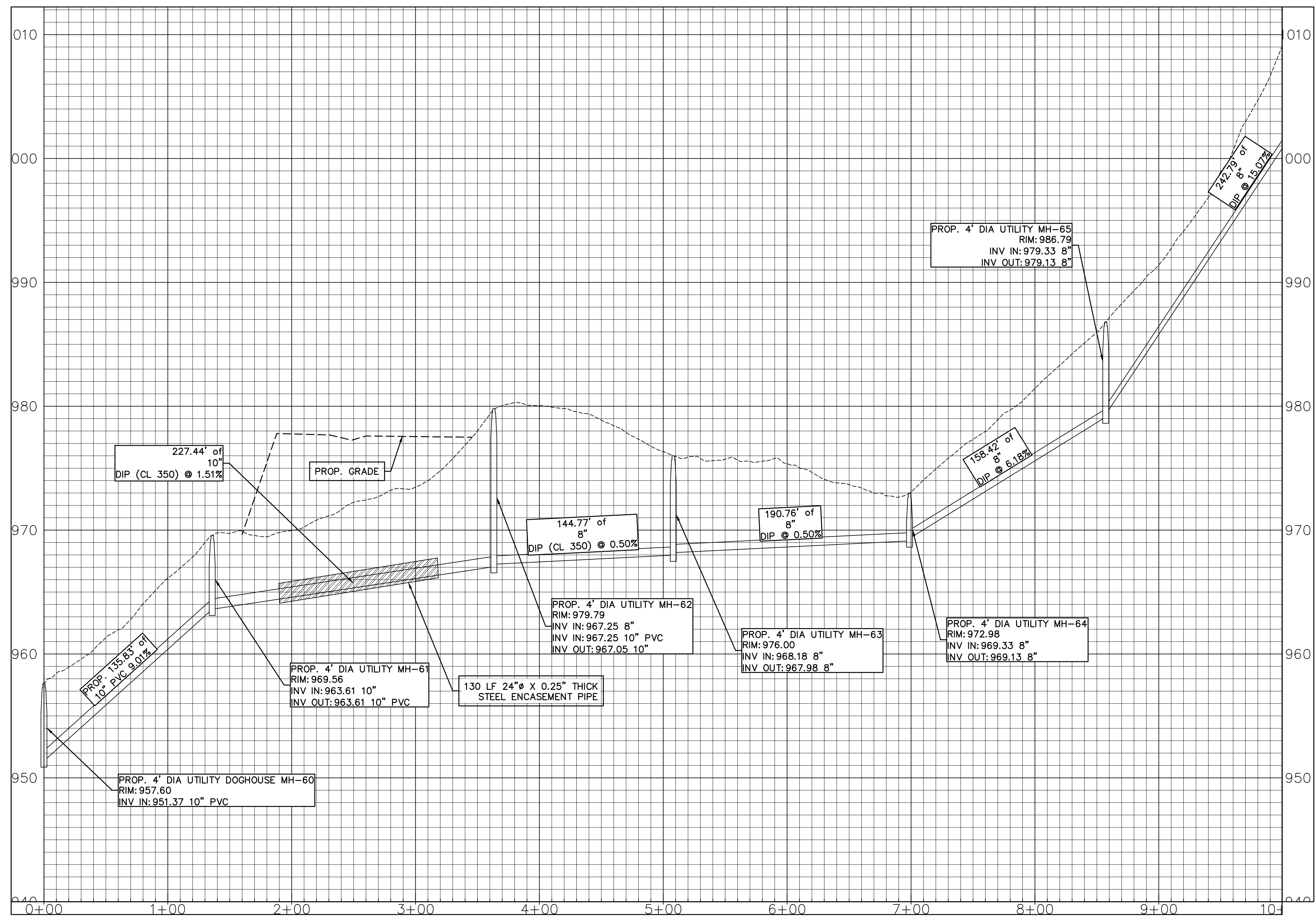
UTILITY CONSTRUCTION

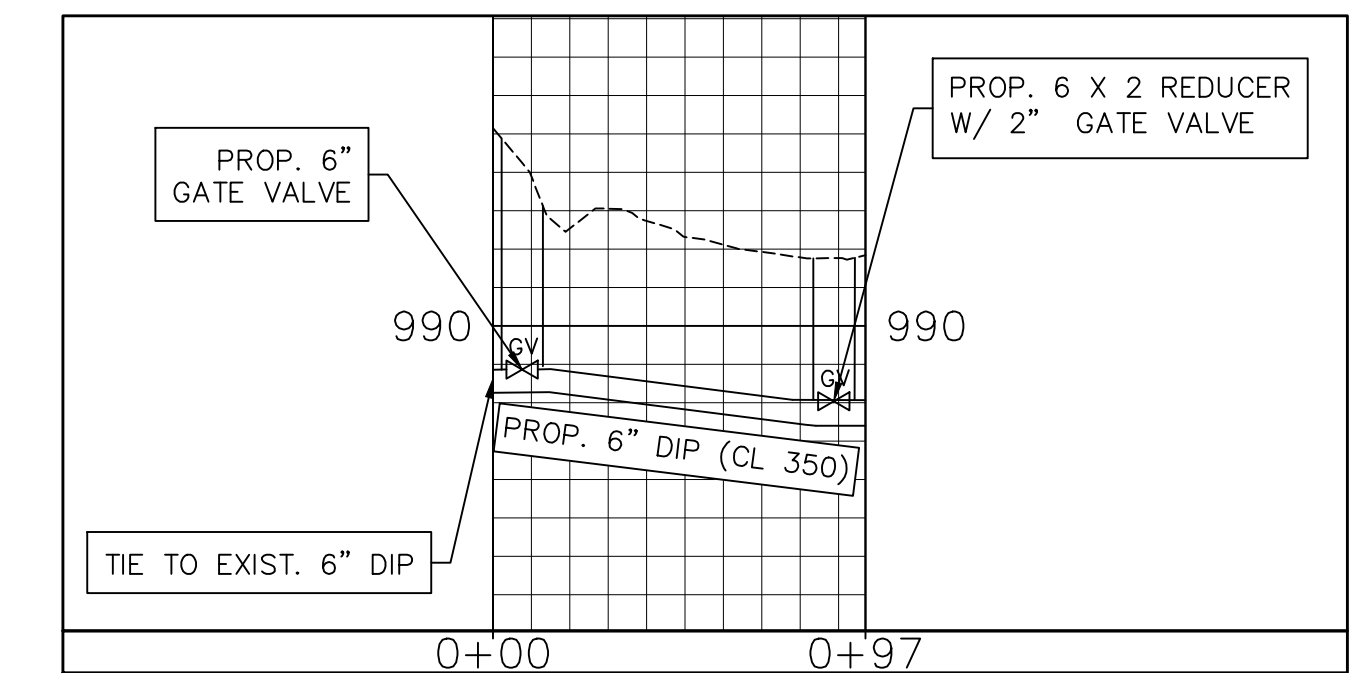
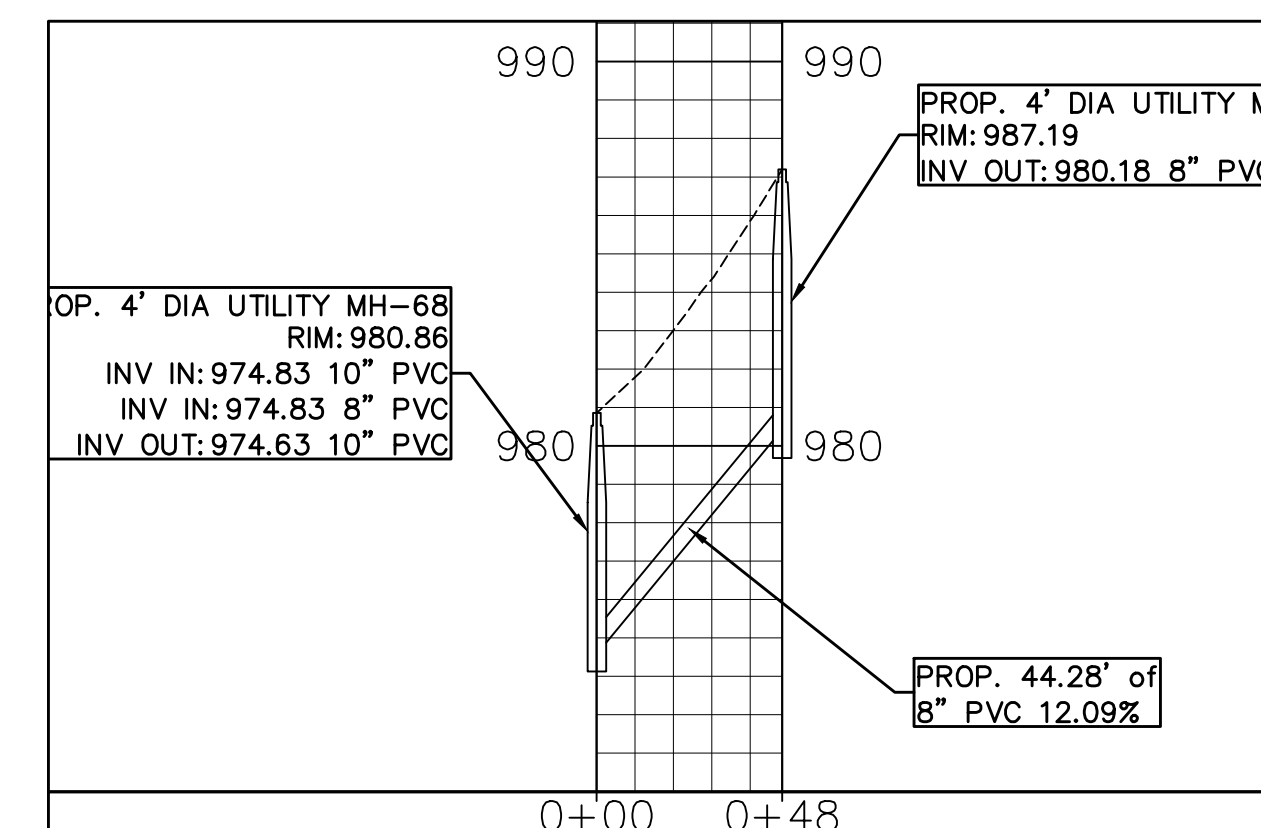
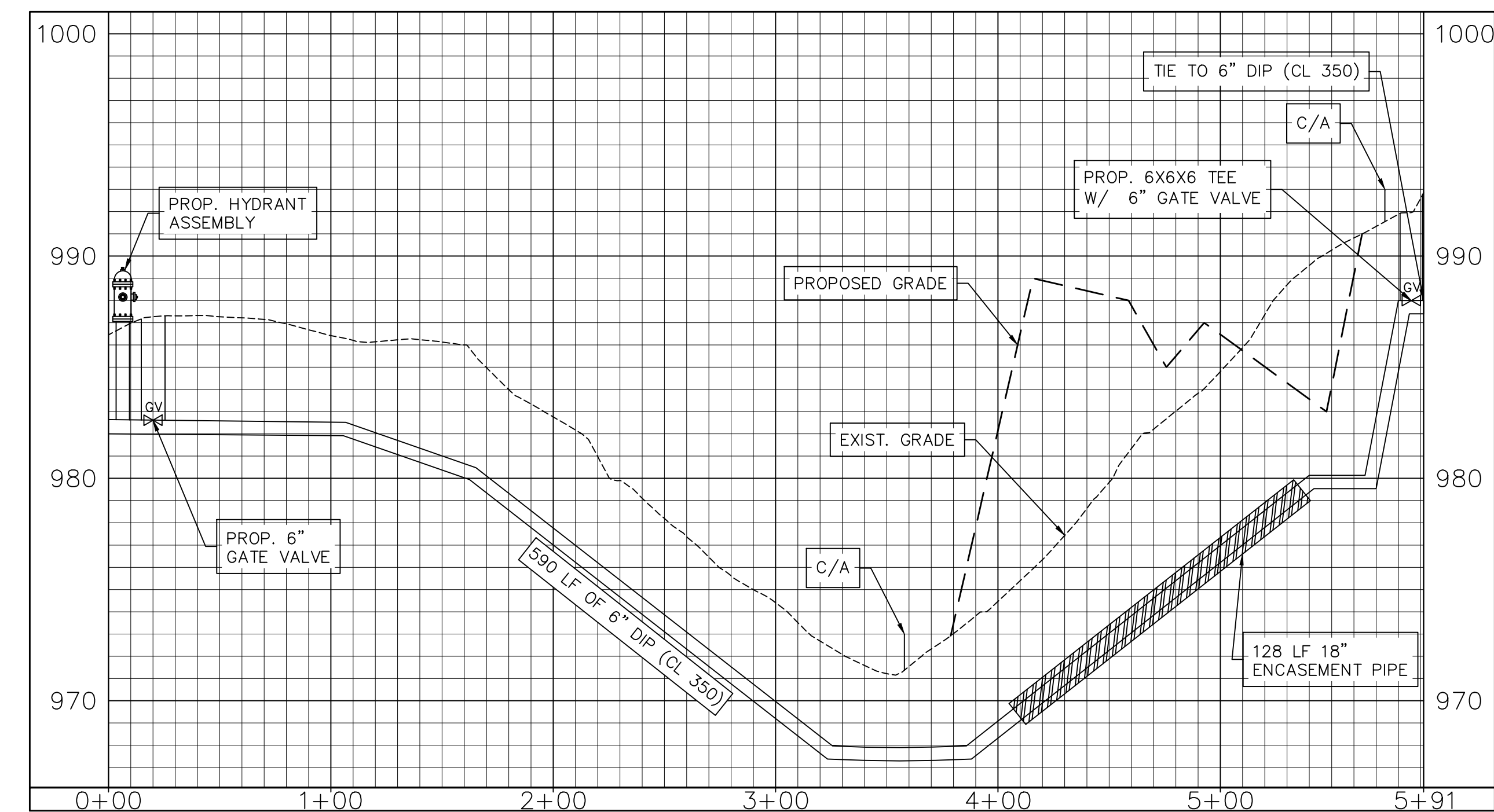
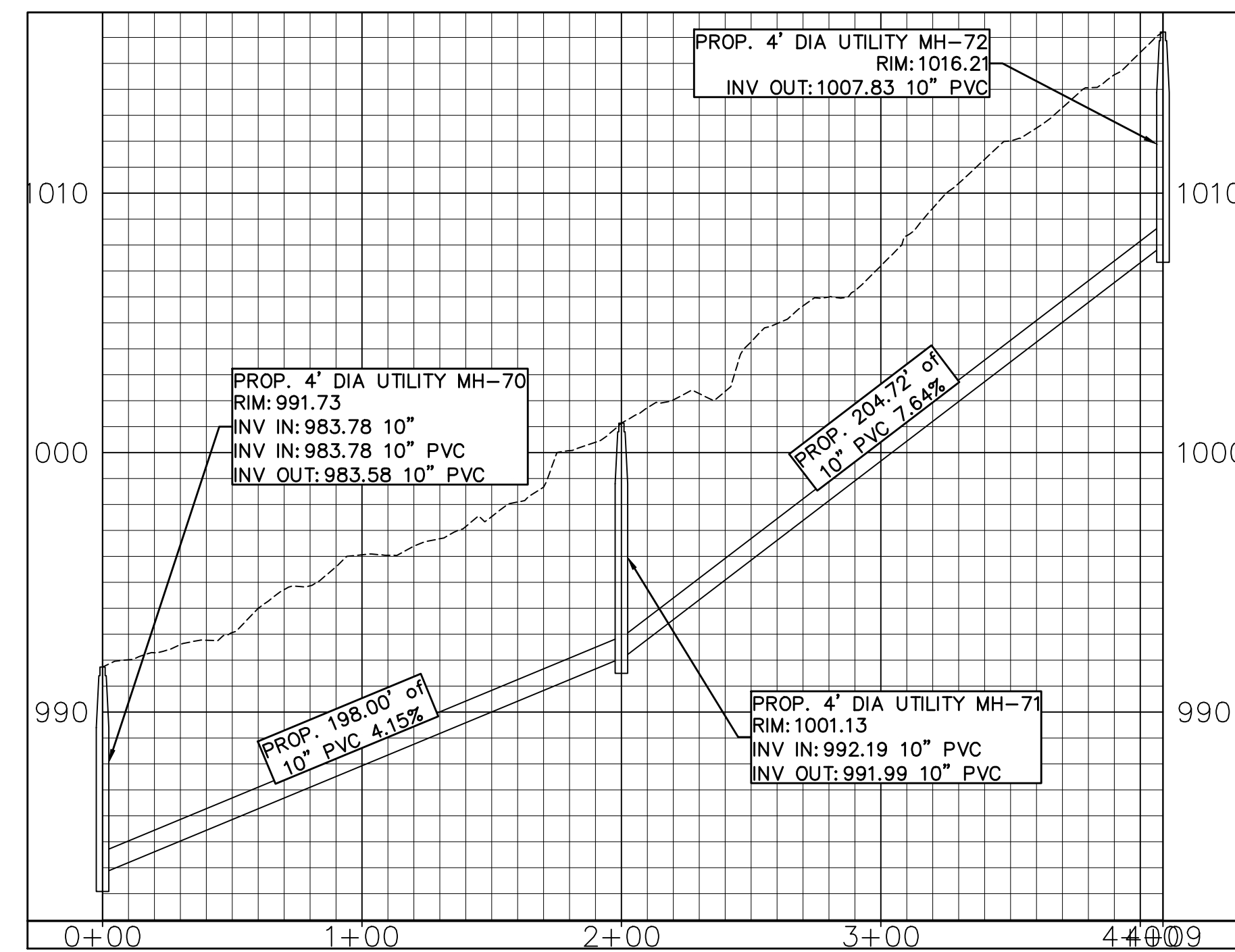
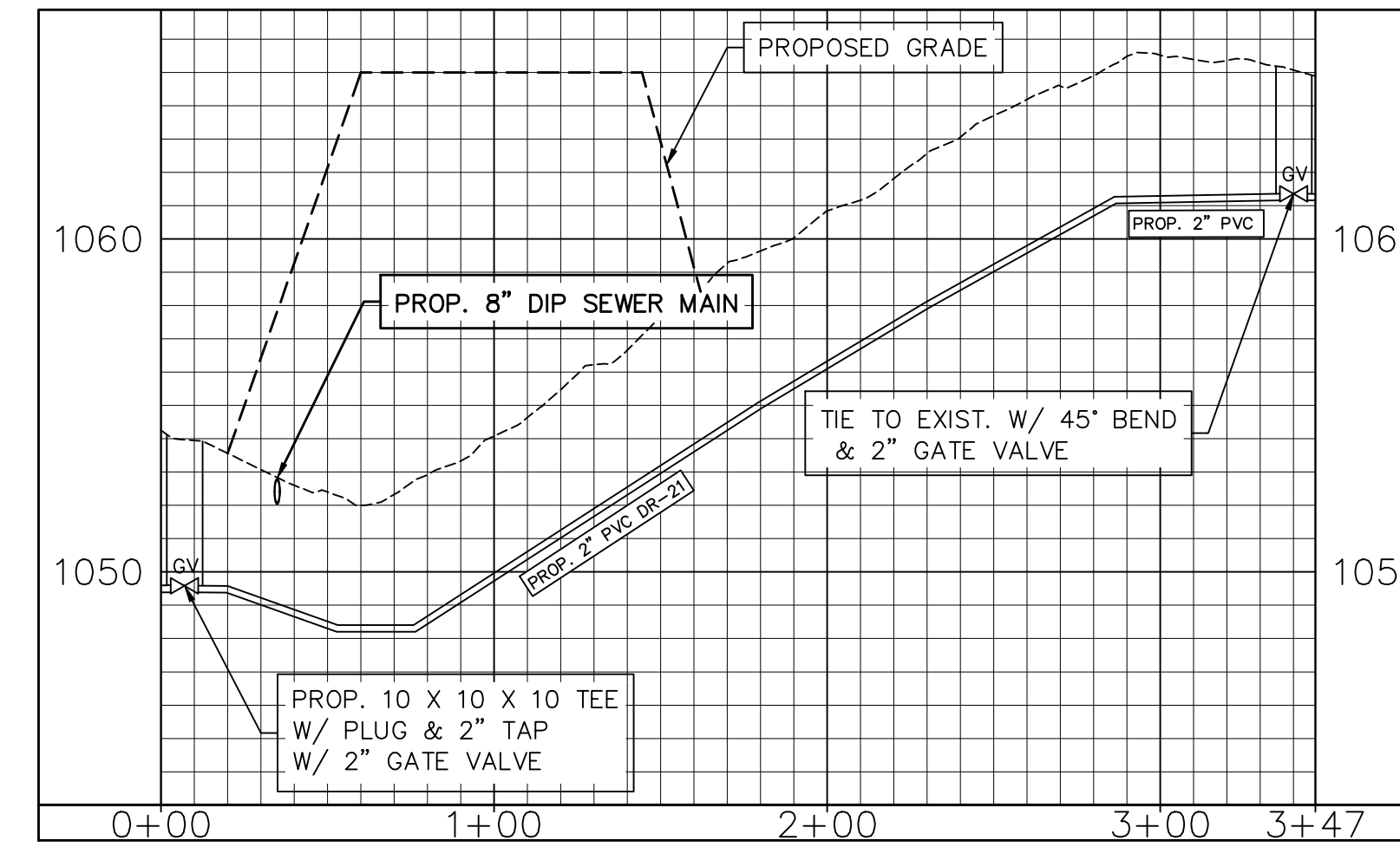
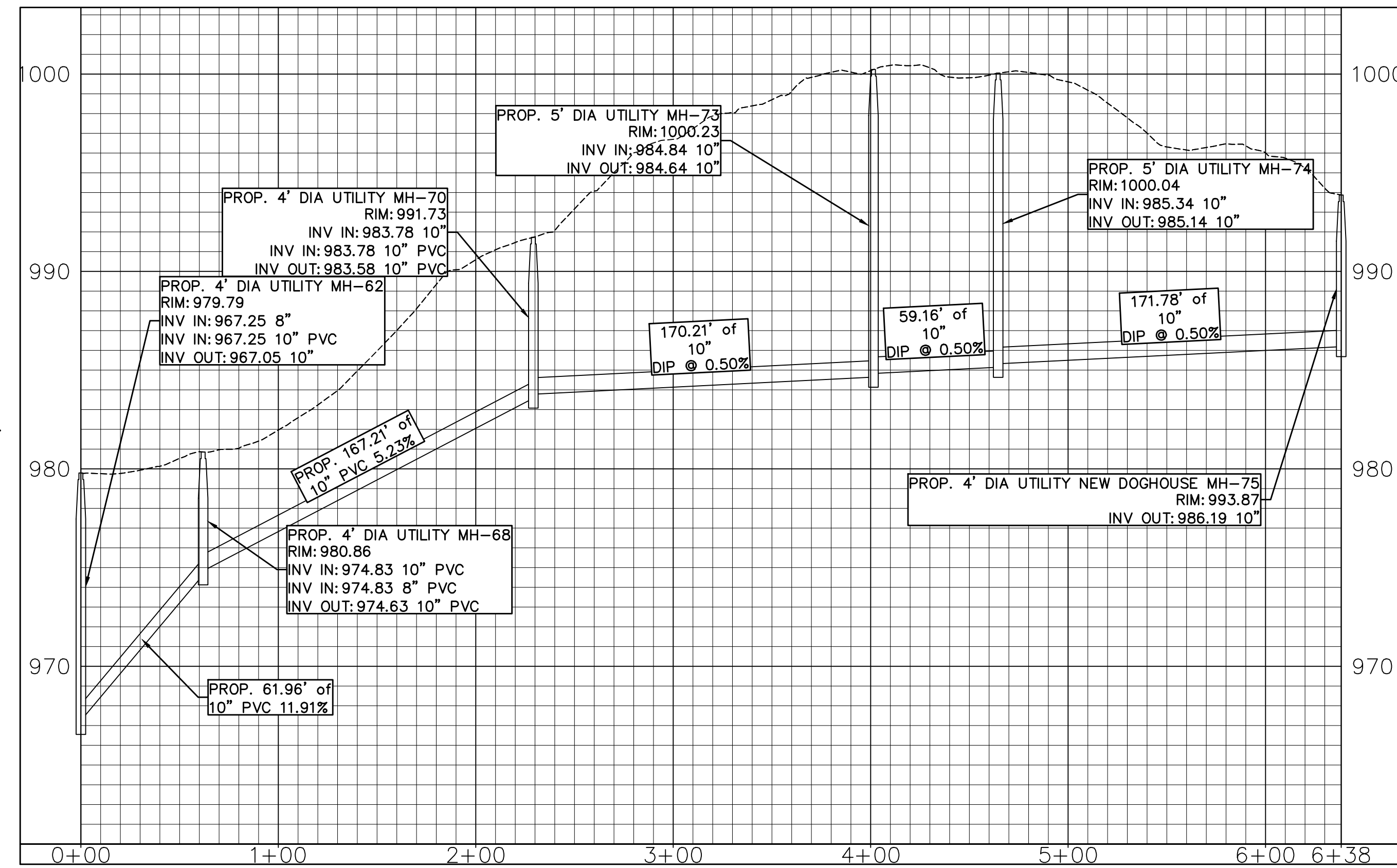
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PROJECT REFERENCE NO.	R-2233BB	SHEET NO.	UC-41
DESIGNED BY:			
DRAWN BY:			
CHECKED BY:			
APPROVED BY:			
REVISED:			
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION		10/20/2021	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151		PLANS ONLY	

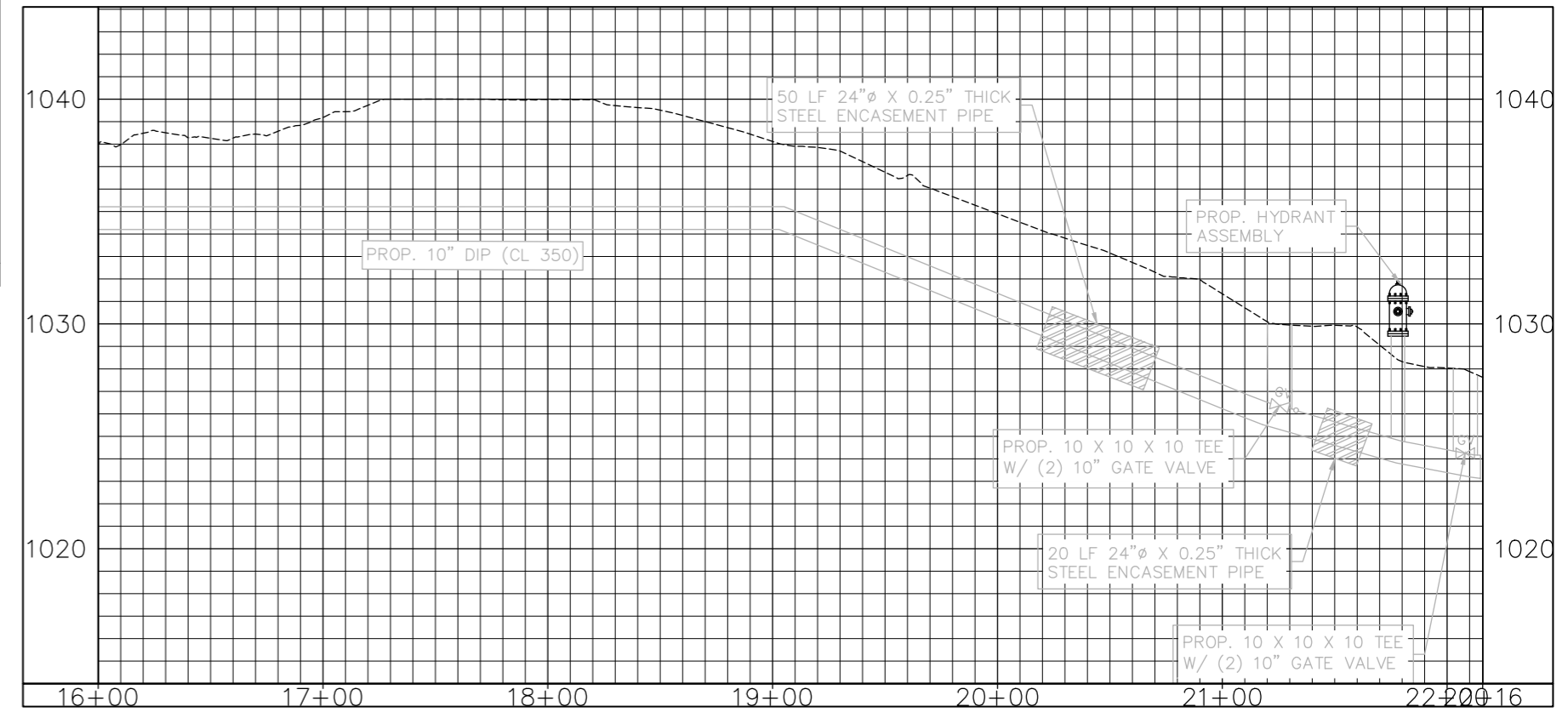
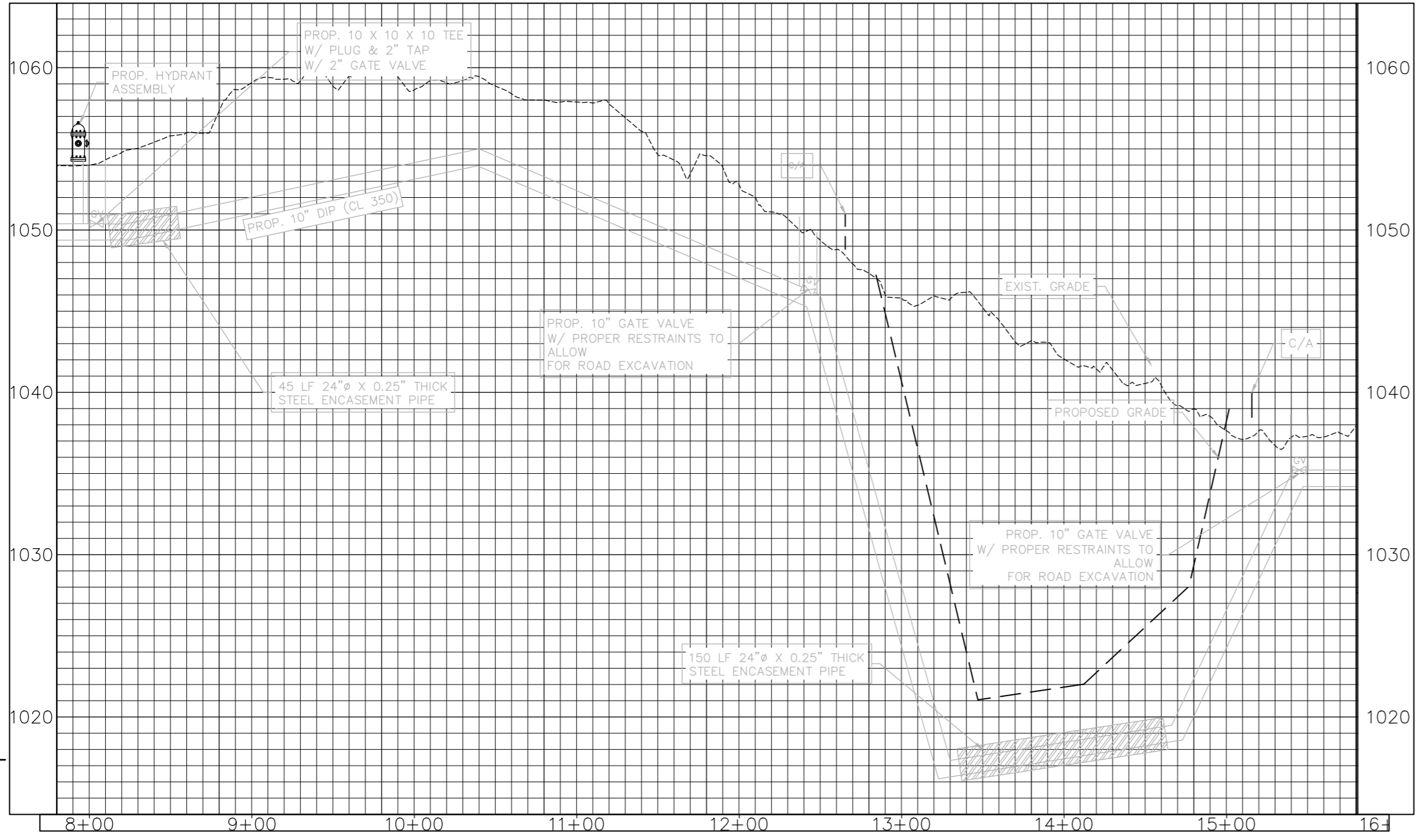
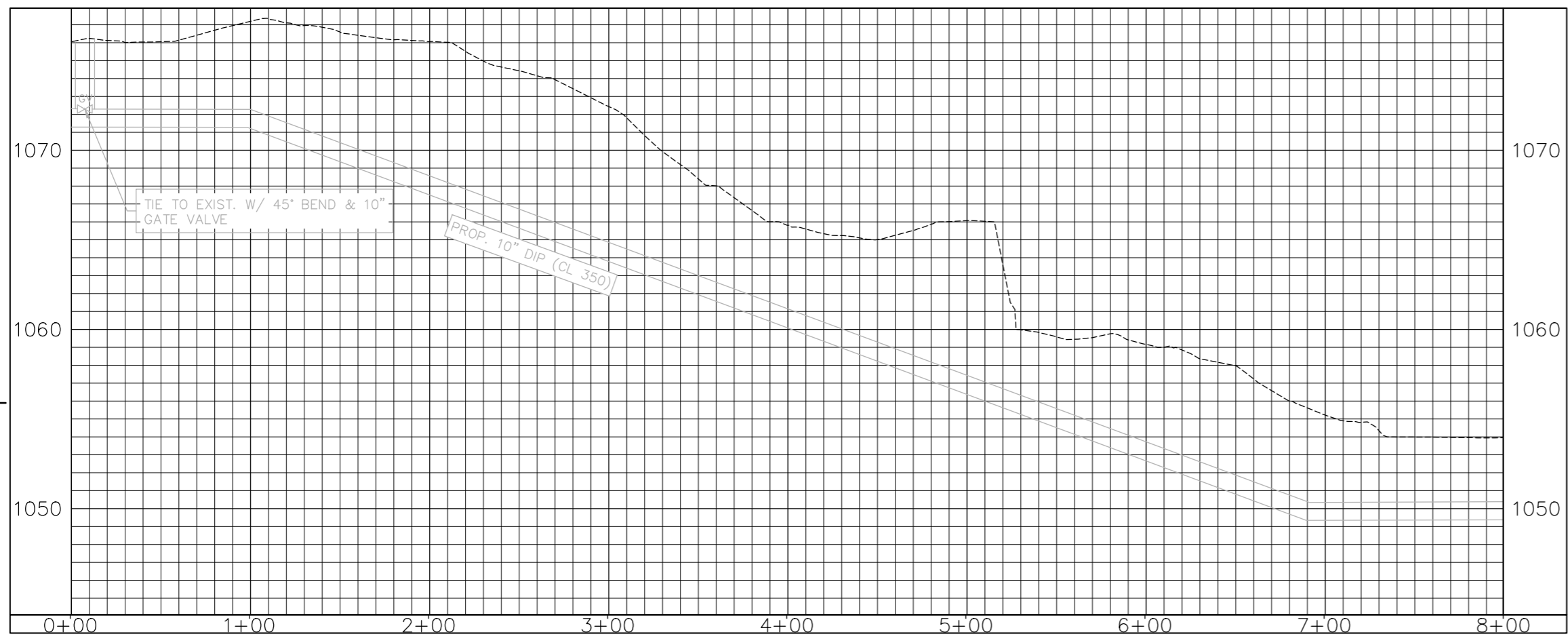
UTILITY CONSTRUCTION
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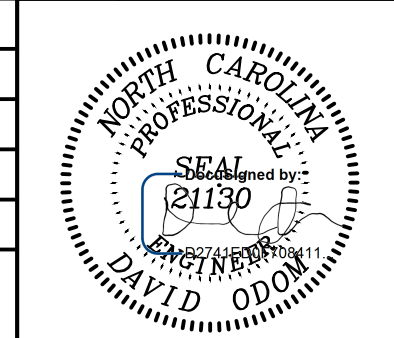
PROJECT REFERENCE NO. R-2233BB	SHEET NO. UC-42
DESIGNED BY:	
DRAWN BY:	
CHECKED BY:	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
PLANS ONLY	

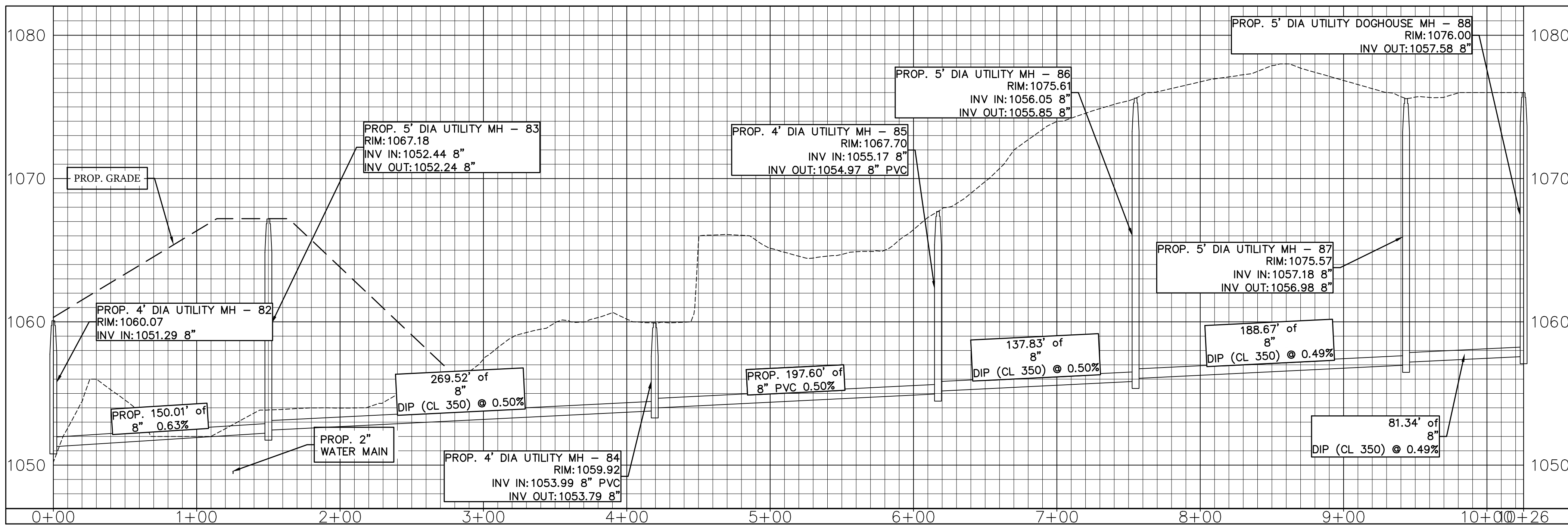
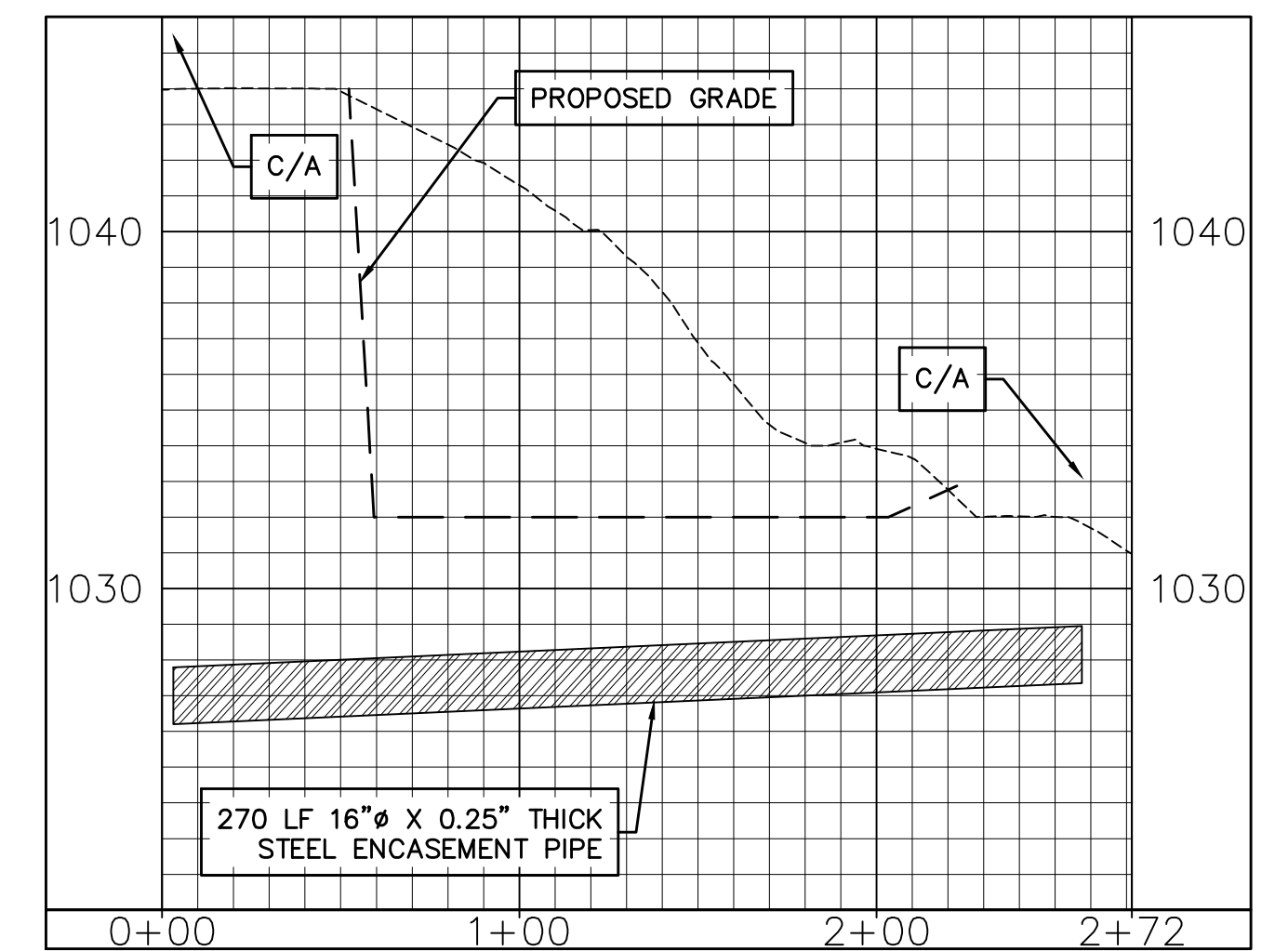
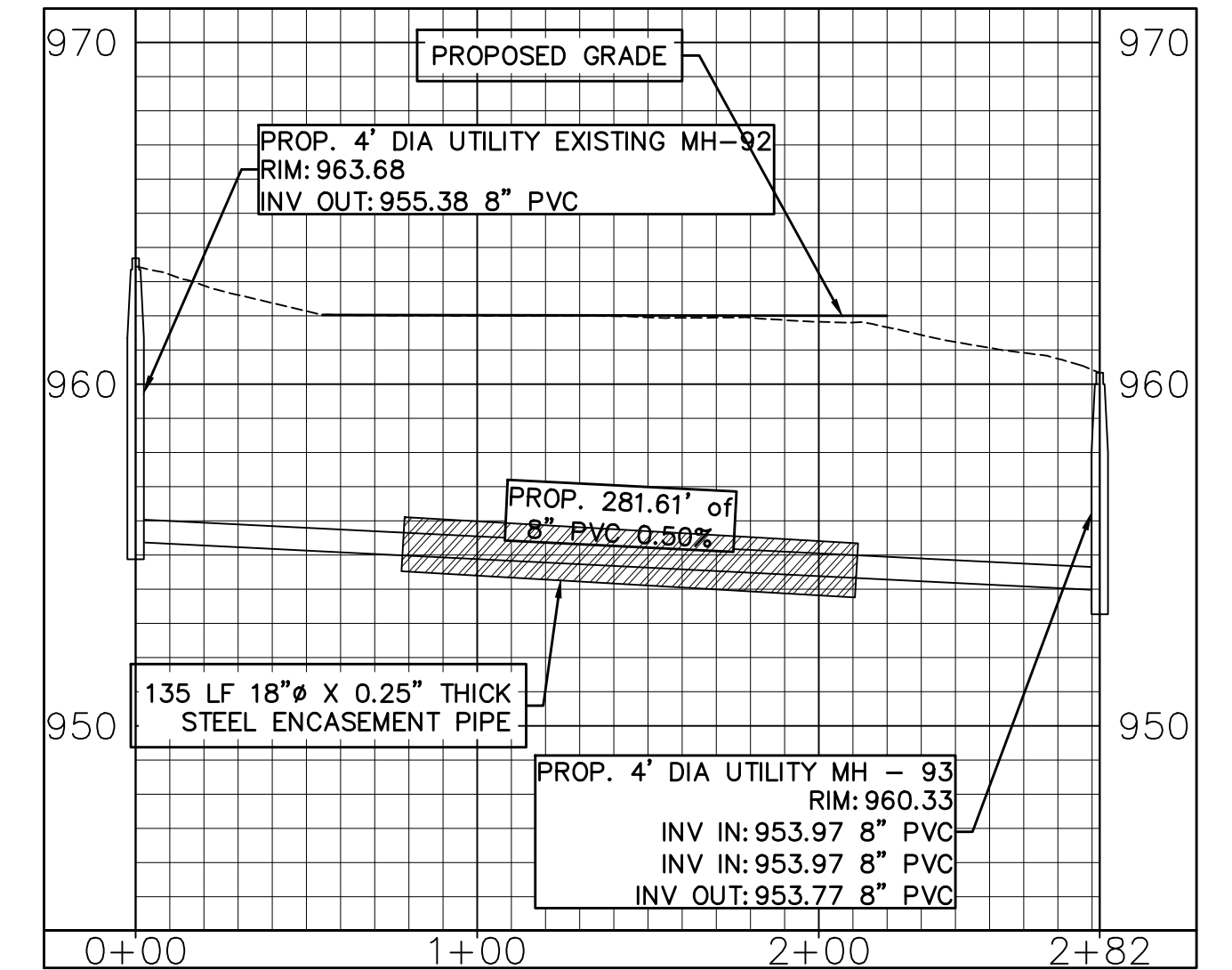
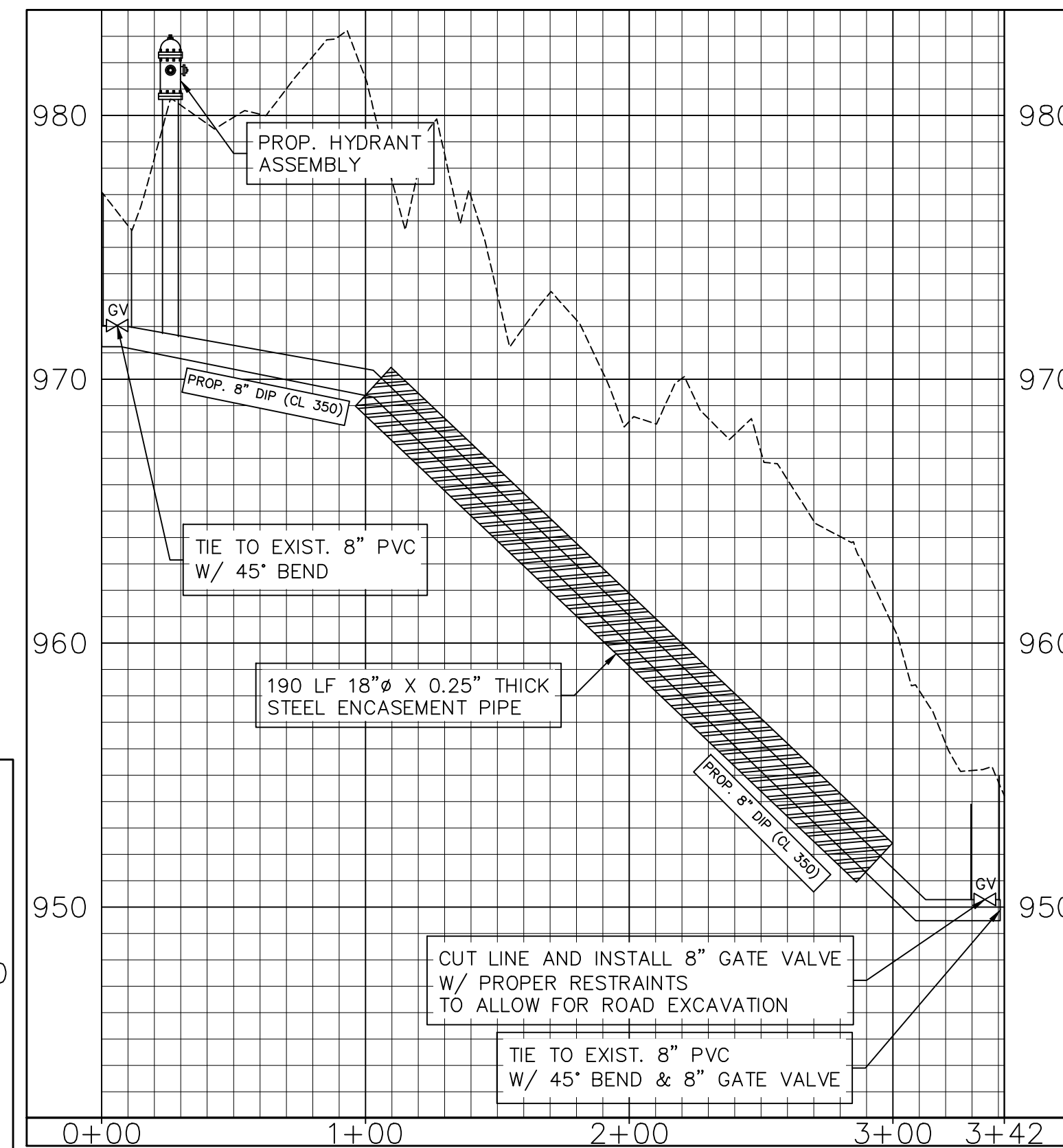
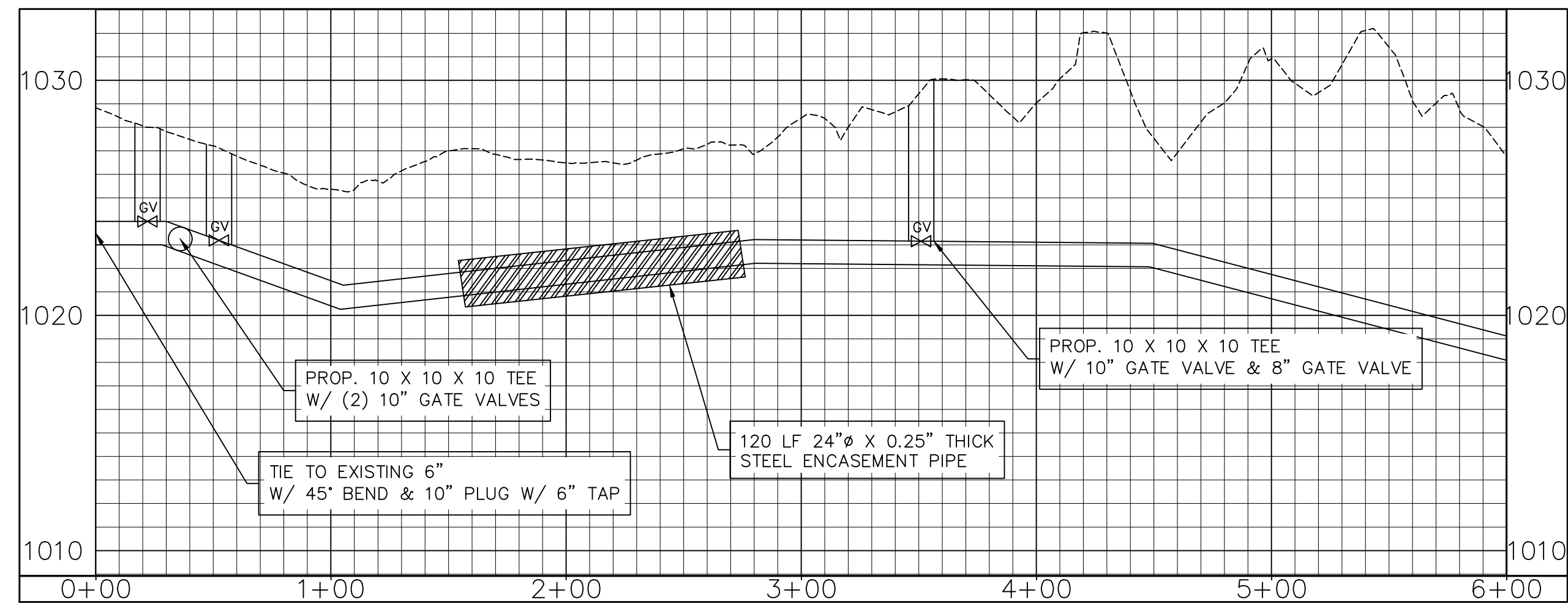
UTILITY CONSTRUCTION
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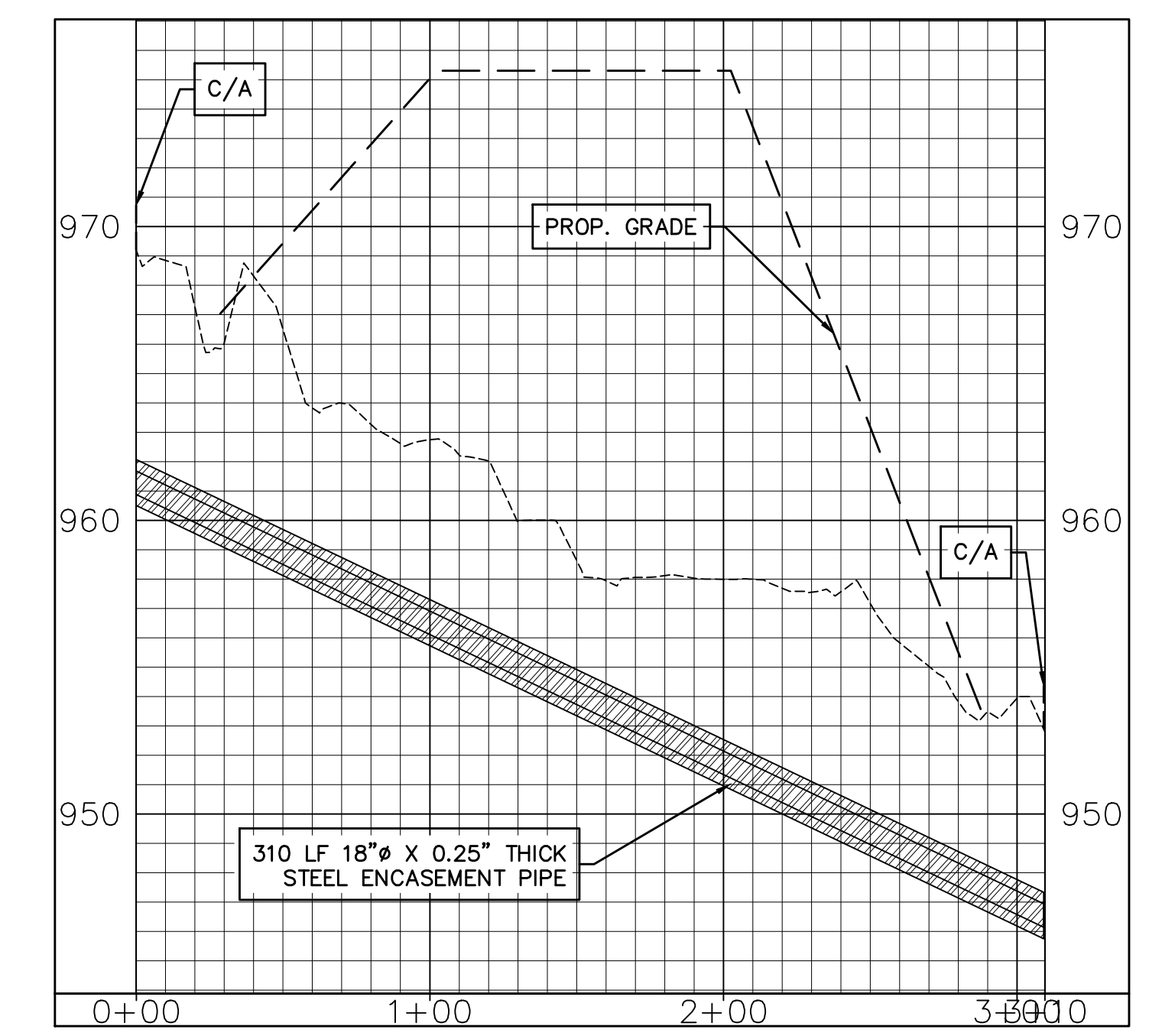
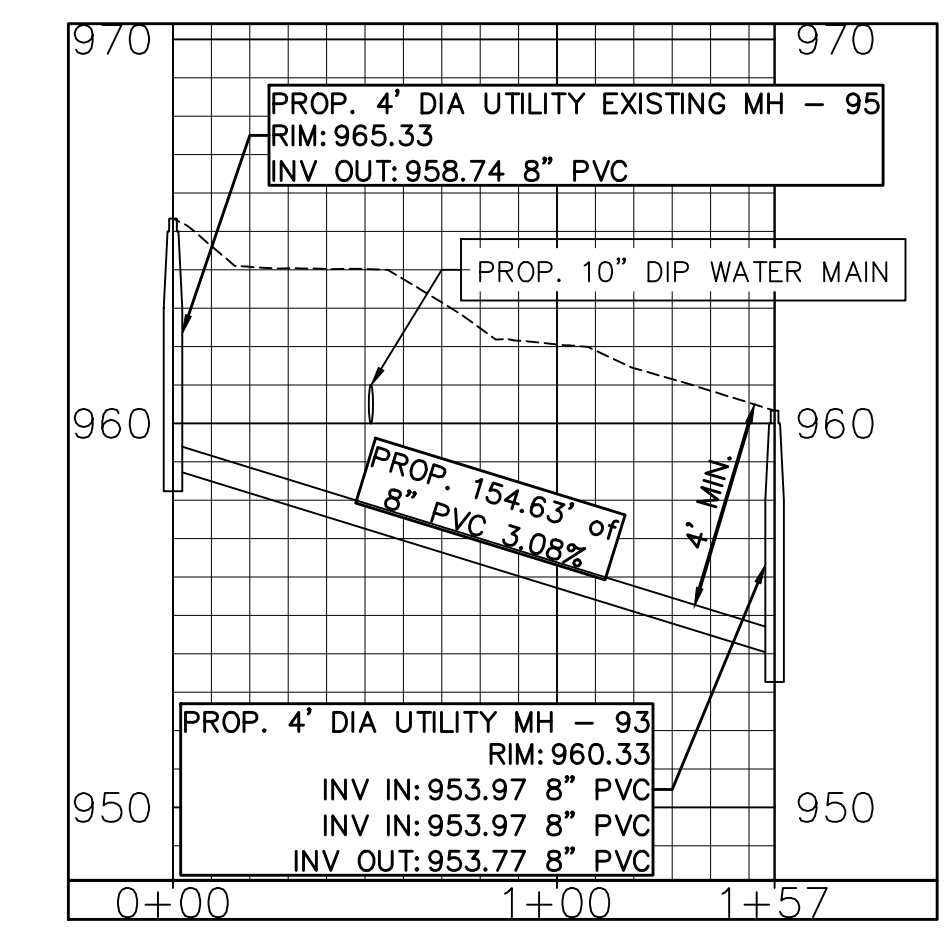
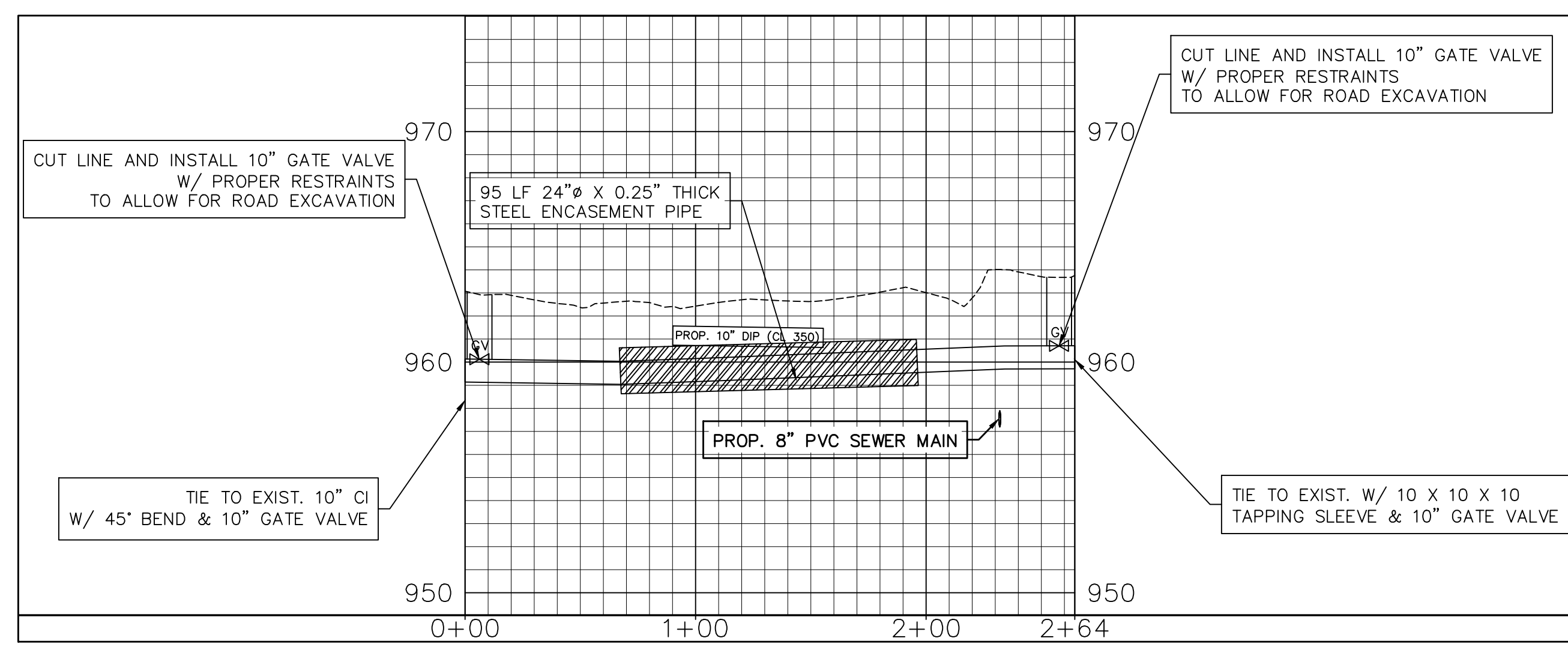
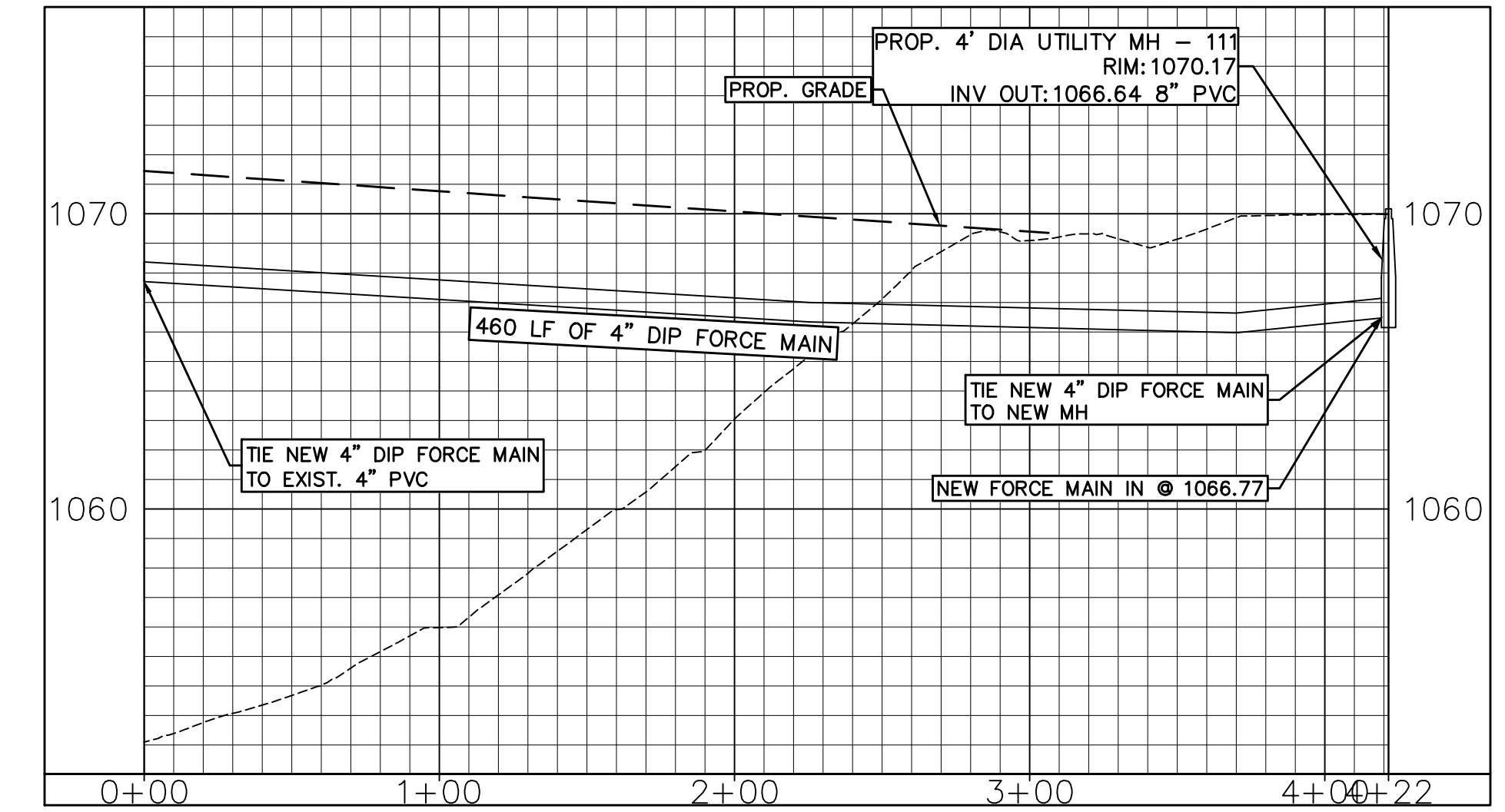
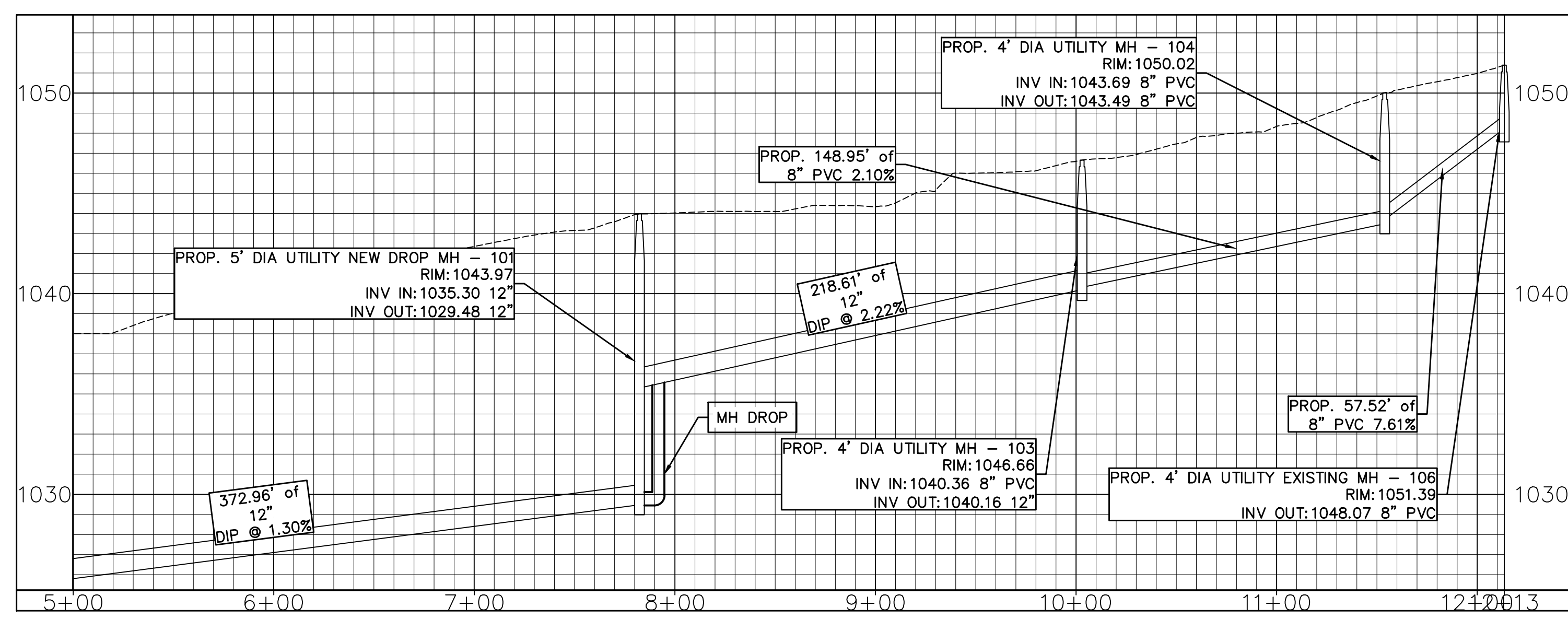
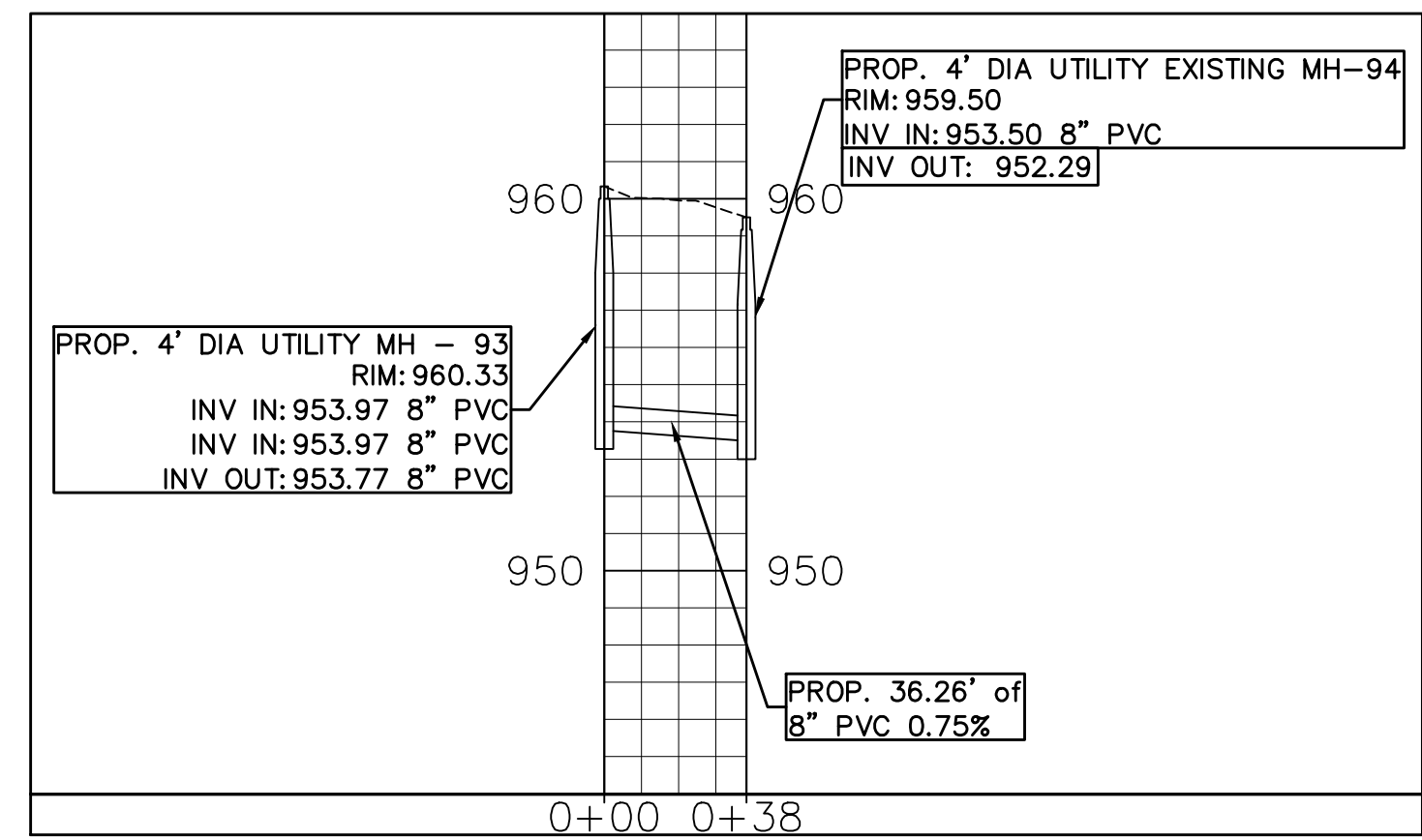
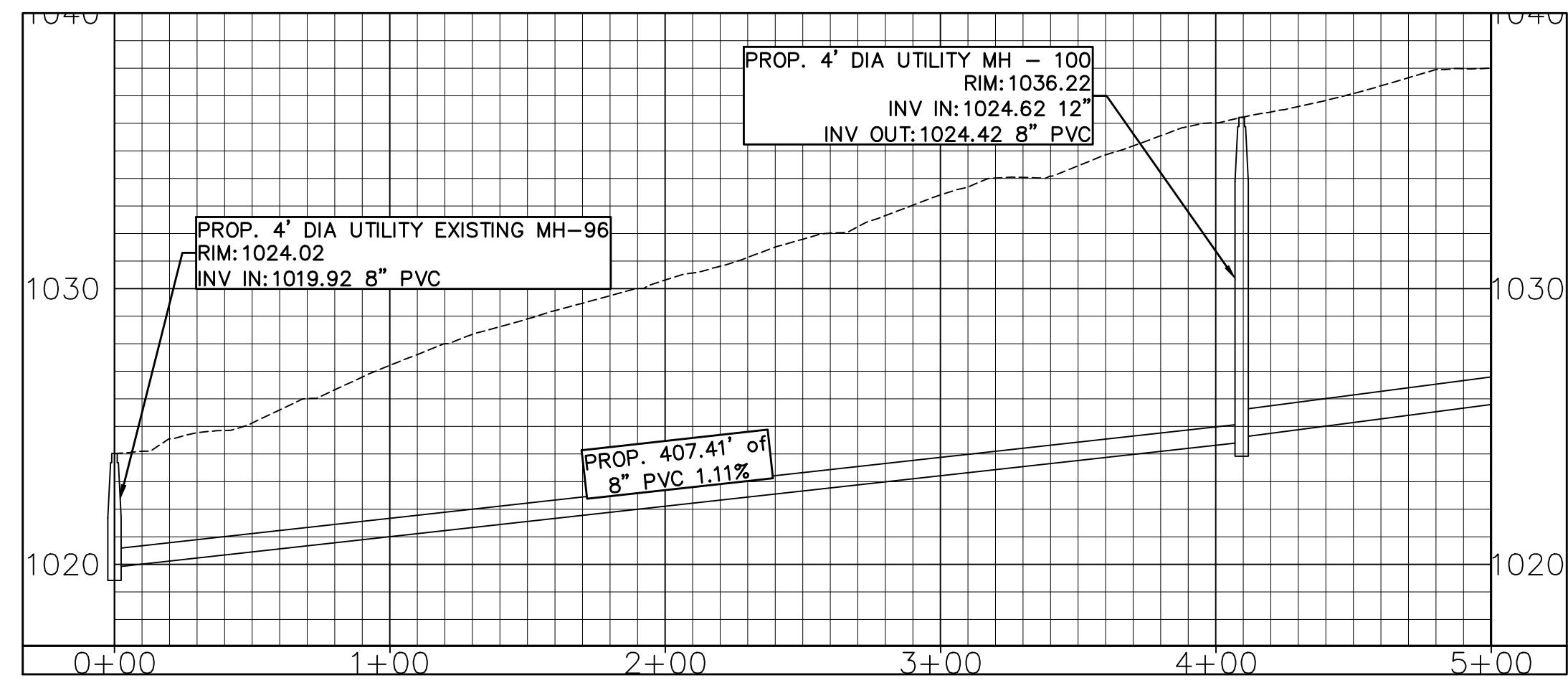


PROJECT REFERENCE NO. R-2233BB	SHEET NO. UC-43
DESIGNED BY: .	
DRAWN BY: .	
CHECKED BY: .	
APPROVED BY: .	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
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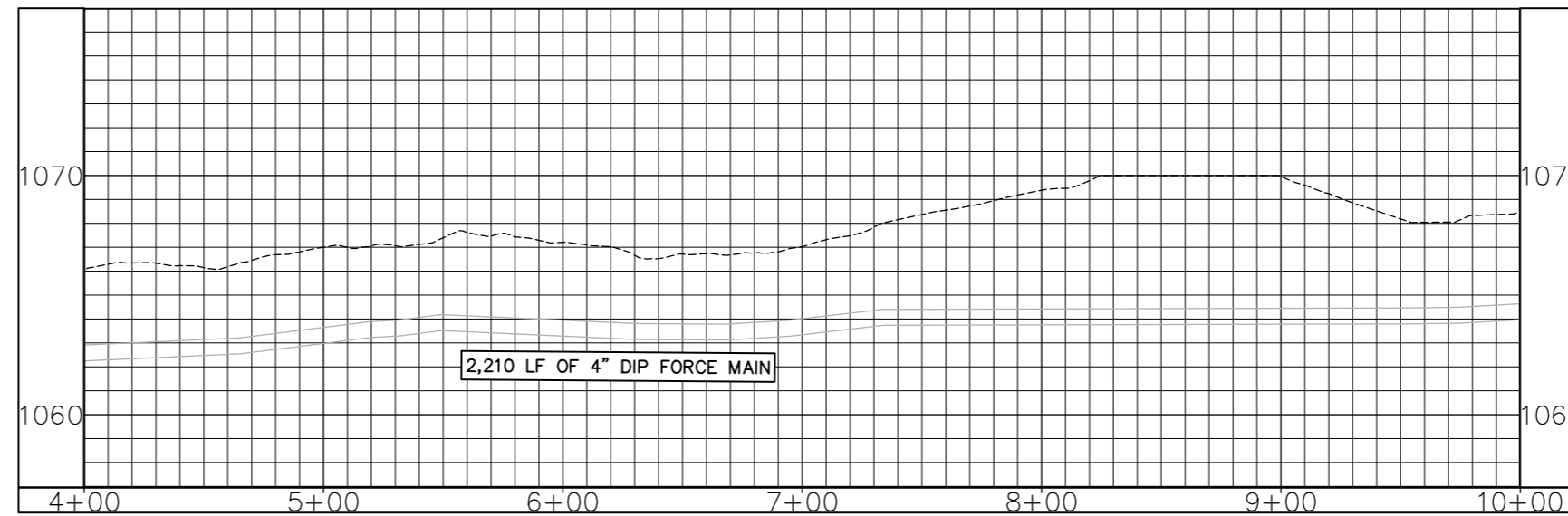
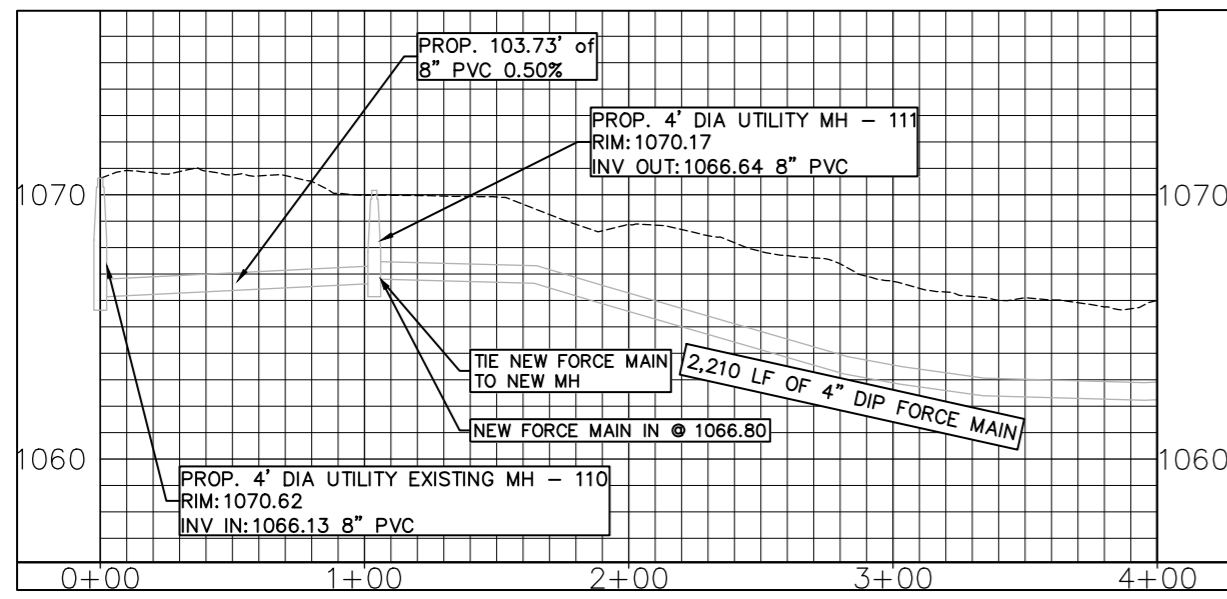
PROJECT REFERENCE NO. R-2233BB		SHEET NO. UC-44	
DESIGNED BY:			
DRAWN BY:			
CHECKED BY:			
APPROVED BY:			
REVISED:			
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION		10/20/2021 PLANS ONLY	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151			
UTILITY CONSTRUCTION			
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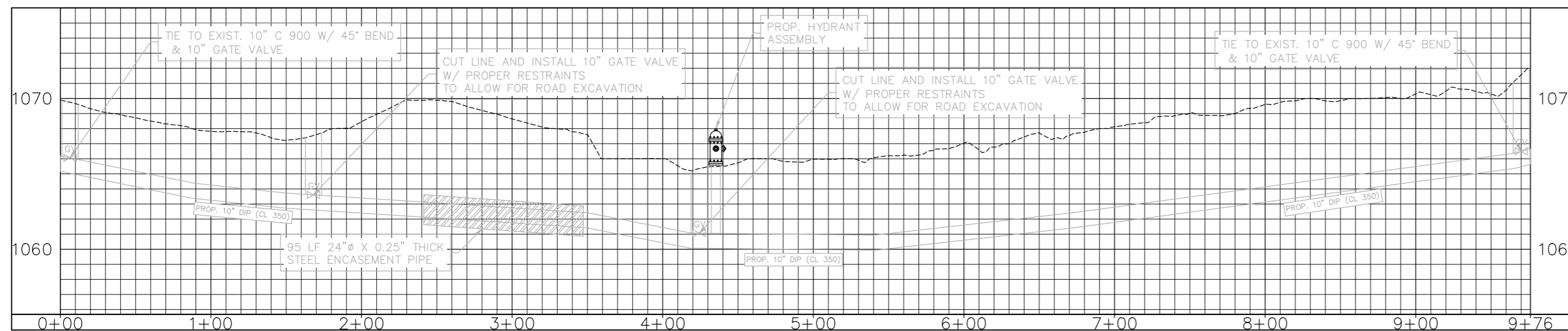
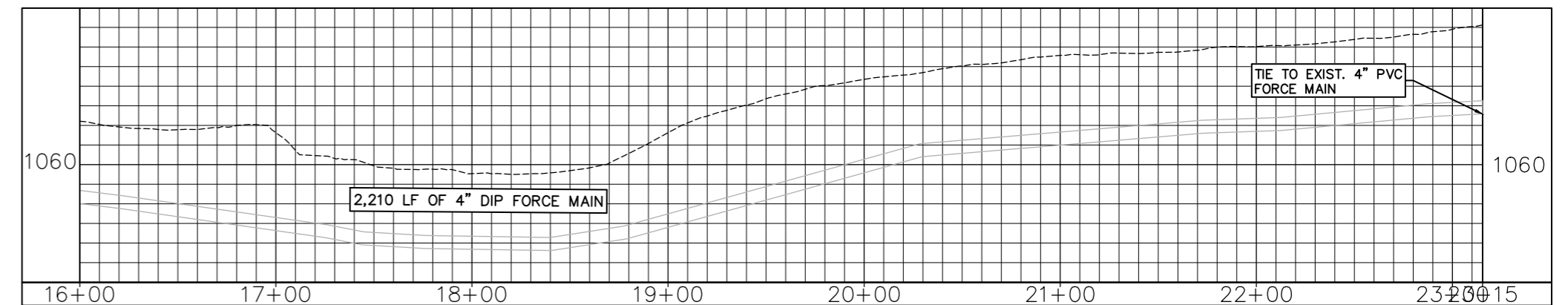
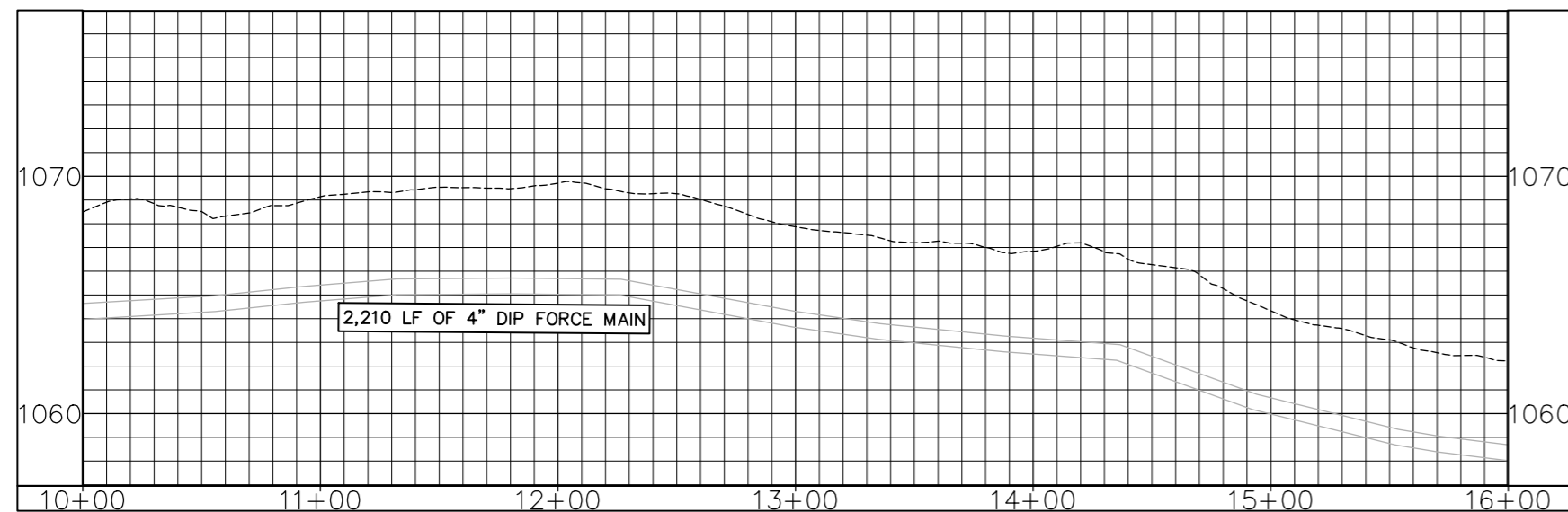


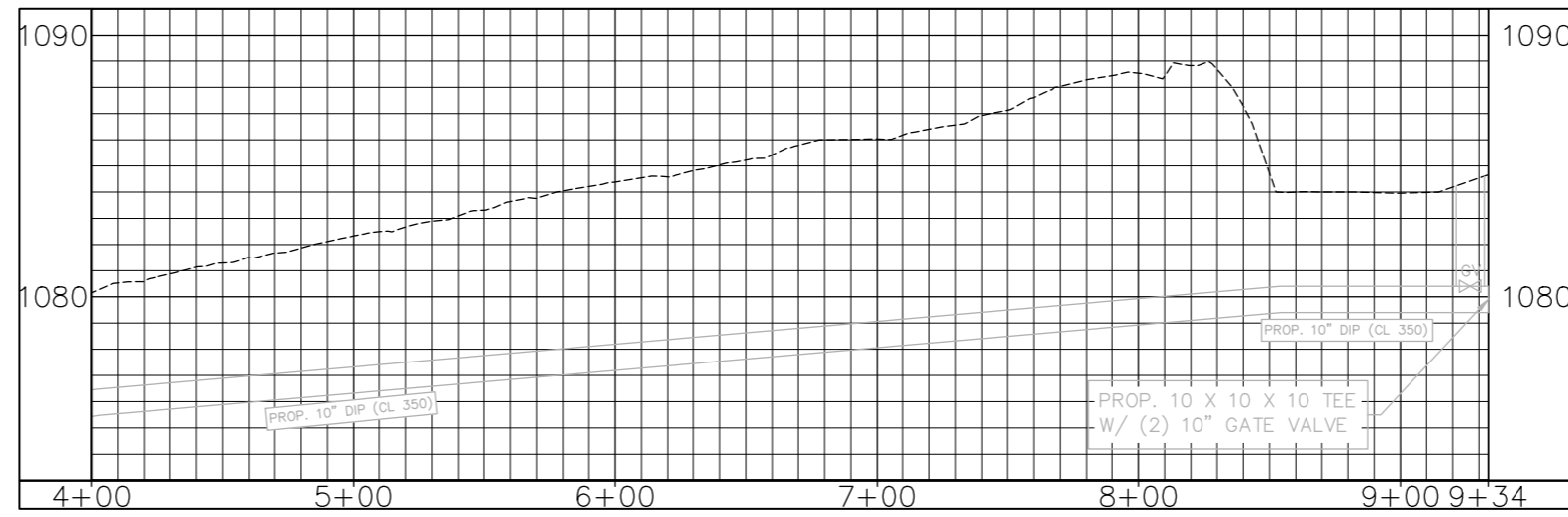
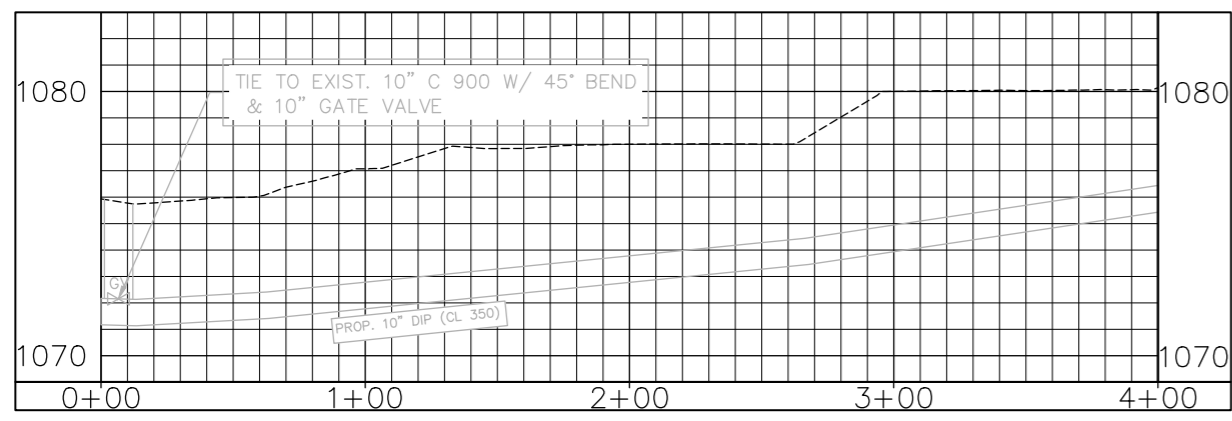
PROJECT REFERENCE NO. R-2233BB	SHEET NO. UC-45
DESIGNED BY:	
DRAWN BY:	
CHECKED BY:	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
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PROJECT REFERENCE NO. R-2233BB	SHEET NO. UC-46
DESIGNED BY:	
DRAWN BY:	
CHECKED BY:	
APPROVED BY:	
REVISED:	
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PROJECT REFERENCE NO. R-2233BB	SHEET NO. UC-47
DESIGNED BY: .	
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APPROVED BY: .	
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