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PROJECT TYPICAL DETAILS

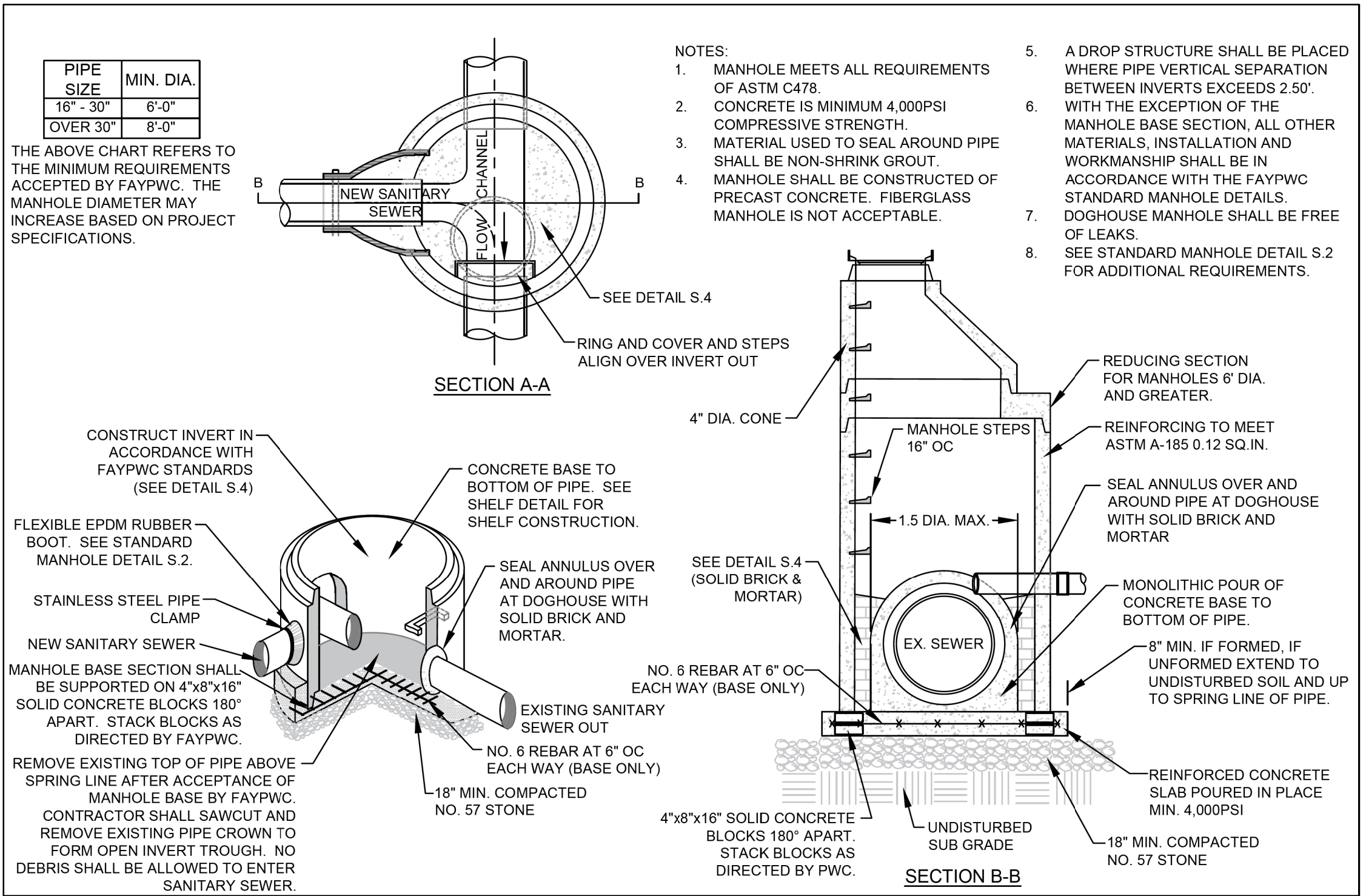


SEWER/STORM ROAD
SHEET NO. 11
SCALE: AS SHOWN
PROJECT: 1914B-2899
NO. COLA: 24202

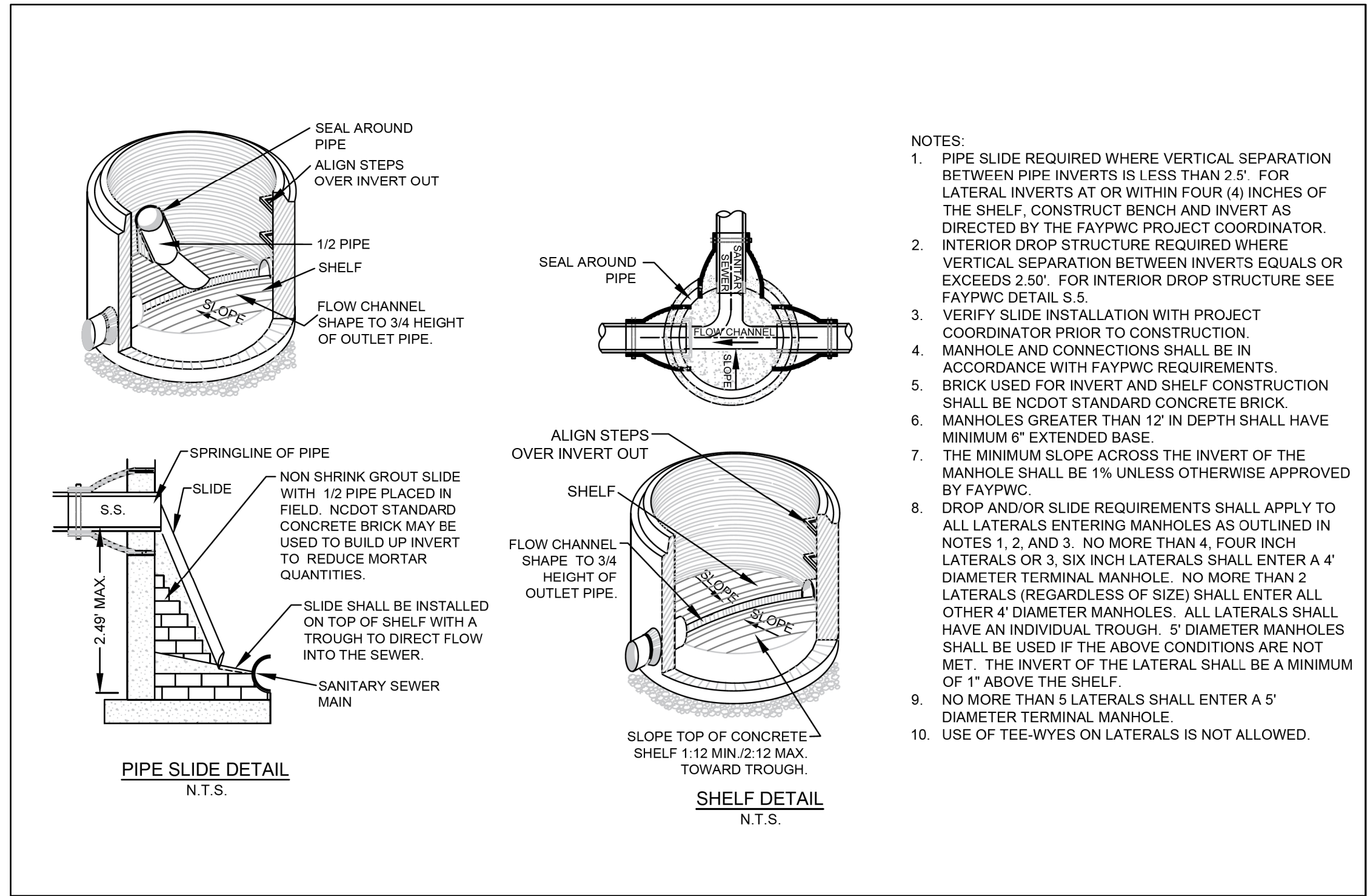
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| PROJECT REFERENCE NO. | SHEET NO. |
| U-2519BB | UC-3K |
| DESIGNED BY: DJ | |
| DRAWN BY: DJ | |
| CHECKED BY: TR | |
| APPROVED BY: TR | |
| REVISED: | 3/24/2022 |
| UTILITY CONSTRUCTION PLANS ONLY | |

UTILITY CONSTRUCTION

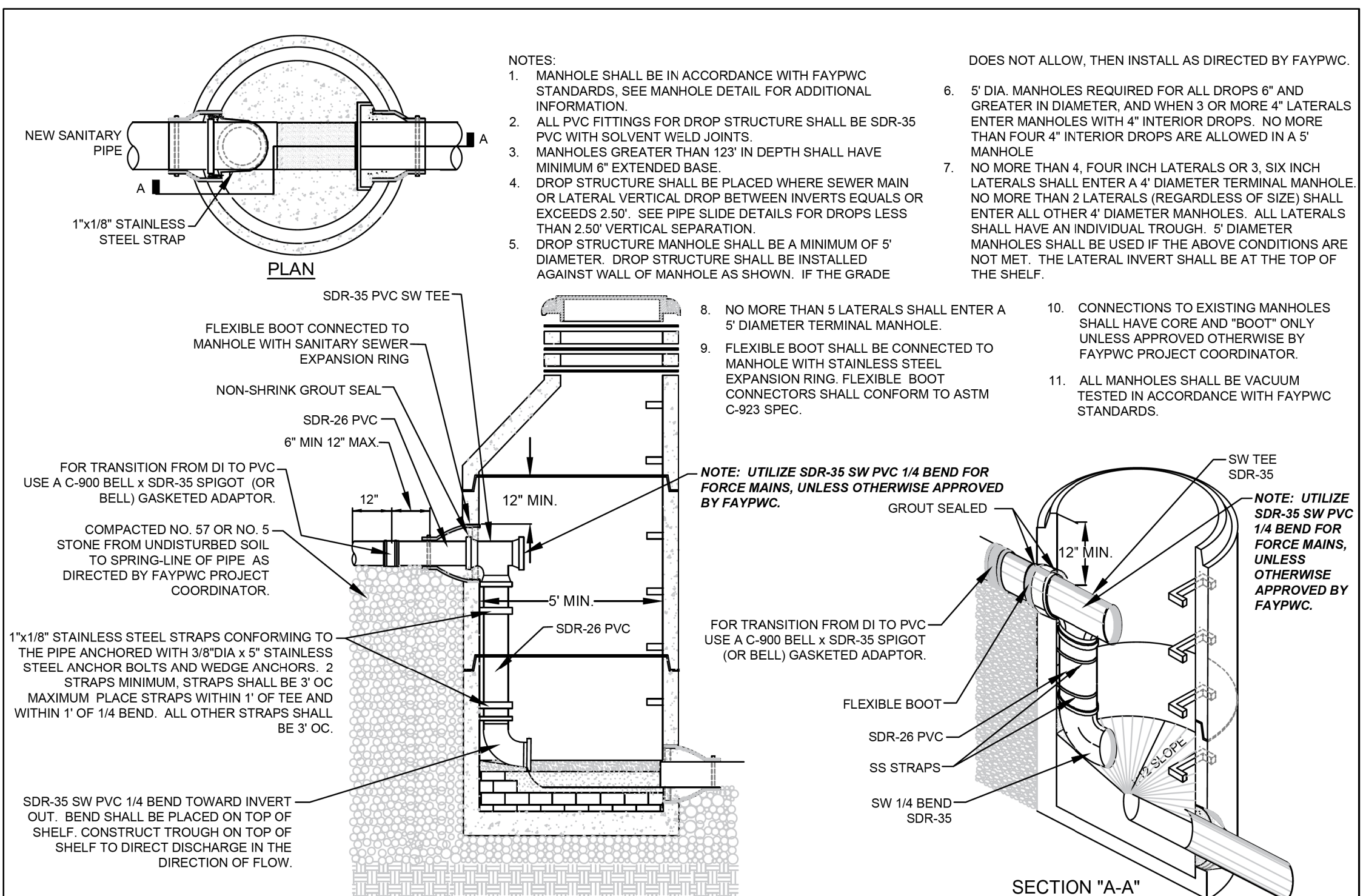
NOTE:
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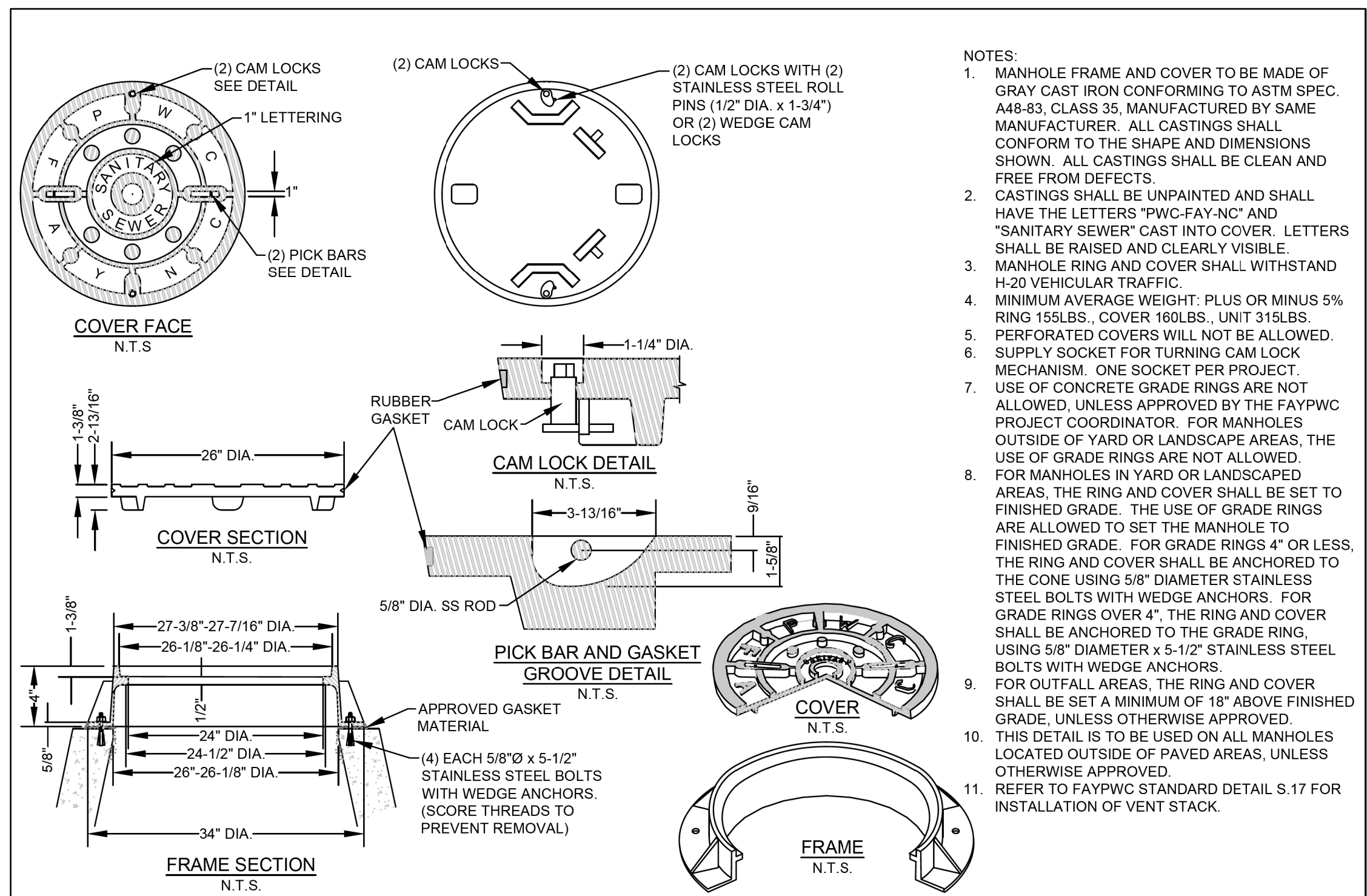
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|--|---------------------|--|---------------|-----|----------|-----------------------|
| DOGHOUSE MANHOLE (MAINS 16" OR LARGER) N.T.S. | | FAYETTEVILLE PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C. | | NO. | DATE | REVISION |
| SHEET NO. 2 OF 2 | DWG. NO. S.3 | DWG. BY: FAYPWC | FAYPWC | 1 | 07/16 | ADDED SHEET 2 |
| | DATE: JAN. 01, 2022 | APPROVED BY: M.M.M. | | 2 | 11/25/08 | MADE CHANGES TO NOTES |
| | | | | 3 | 01/01/19 | ADDED MH CHART |



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|--|---------------------|--|---------------|-----|-------|--|
| PIPE SLIDE AND SHELF DETAILS N.T.S. | | FAYETTEVILLE PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C. | | NO. | DATE | REVISION |
| SHEET NO. 1 OF 1 | DWG. NO. S.4 | DWG. BY: FAYPWC | FAYPWC | 1 | 01/05 | ADDED NOTE 8 |
| | DATE: JAN. 01, 2022 | APPROVED BY: M.M.M. | | 2 | 02/07 | REVISED NOTE 8, SLIDE DETAIL, ADDED NOTES 10,11,12 |
| | | | | 3 | 01/18 | DELETED MORTAR SLIDE, REVISED NOTES |



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|---|---------------------|--|---------------|-----|-------|---------------------------------------|
| INTERIOR DROP STRUCTURE SEWER MAINS AND LATERALS | | FAYETTEVILLE PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C. | | NO. | DATE | REVISION |
| SHEET NO. 1 OF 1 | DWG. NO. S.5 | DWG. BY: FAYPWC | FAYPWC | 4 | 11/08 | REVISED FITTING MATERIAL |
| | DATE: JAN. 01, 2022 | APPROVED BY: M.M.M. | | 5 | 07/12 | REVISED NOTES 5, 6, AND HUB ON INVERT |
| | | | | 6 | 07/14 | ADDED FORCE MAIN NOTE |



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|---|---------------------|--|---------------|-----|-------|---|
| STANDARD NON-TRAFFIC AREA MANHOLE RING AND COVER WITH WIPER GASKET AND CAM LOCK N.T.S. | | FAYETTEVILLE PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C. | | NO. | DATE | REVISION |
| SHEET NO. 1 OF 1 | DWG. NO. S.6 | DWG. BY: FAYPWC | FAYPWC | 1 | 07/09 | REVISED NOTES ON FRAME SECTION/REVISED NOTE 3 |
| | DATE: JAN. 01, 2022 | APPROVED BY: M.M.M. | | 2 | 07/17 | ADDED NOTE ON WEDGE CAM LOCKS |
| | | | | 3 | 01/18 | UPDATED NOTES 7 AND 8 |

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5/14/19

PROJECT TYPICAL DETAILS

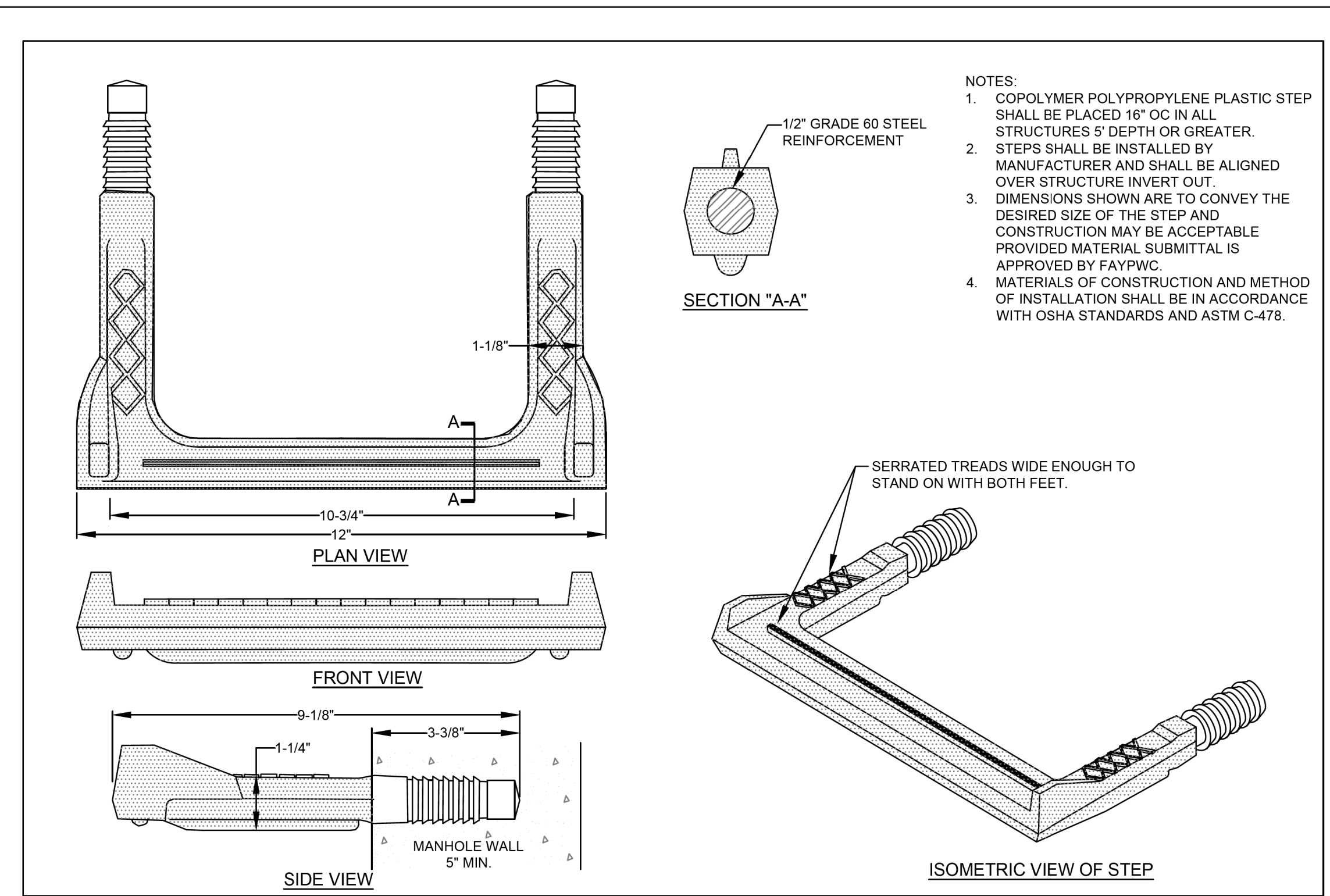


3500 WOODHURST ROAD
RALEIGH, NC 27607
PHONE: 919.891.3889
NC CONTRACTOR LICENSE
046000

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| PROJECT REFERENCE NO. | SHEET NO. |
| U-2519BB | UC-3L |
| DESIGNED BY: DJ | |
| DRAWN BY: DJ | |
| CHECKED BY: TR | |
| APPROVED BY: TR | |
| REVISED: | 3/24/2021 |
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UTILITY CONSTRUCTION

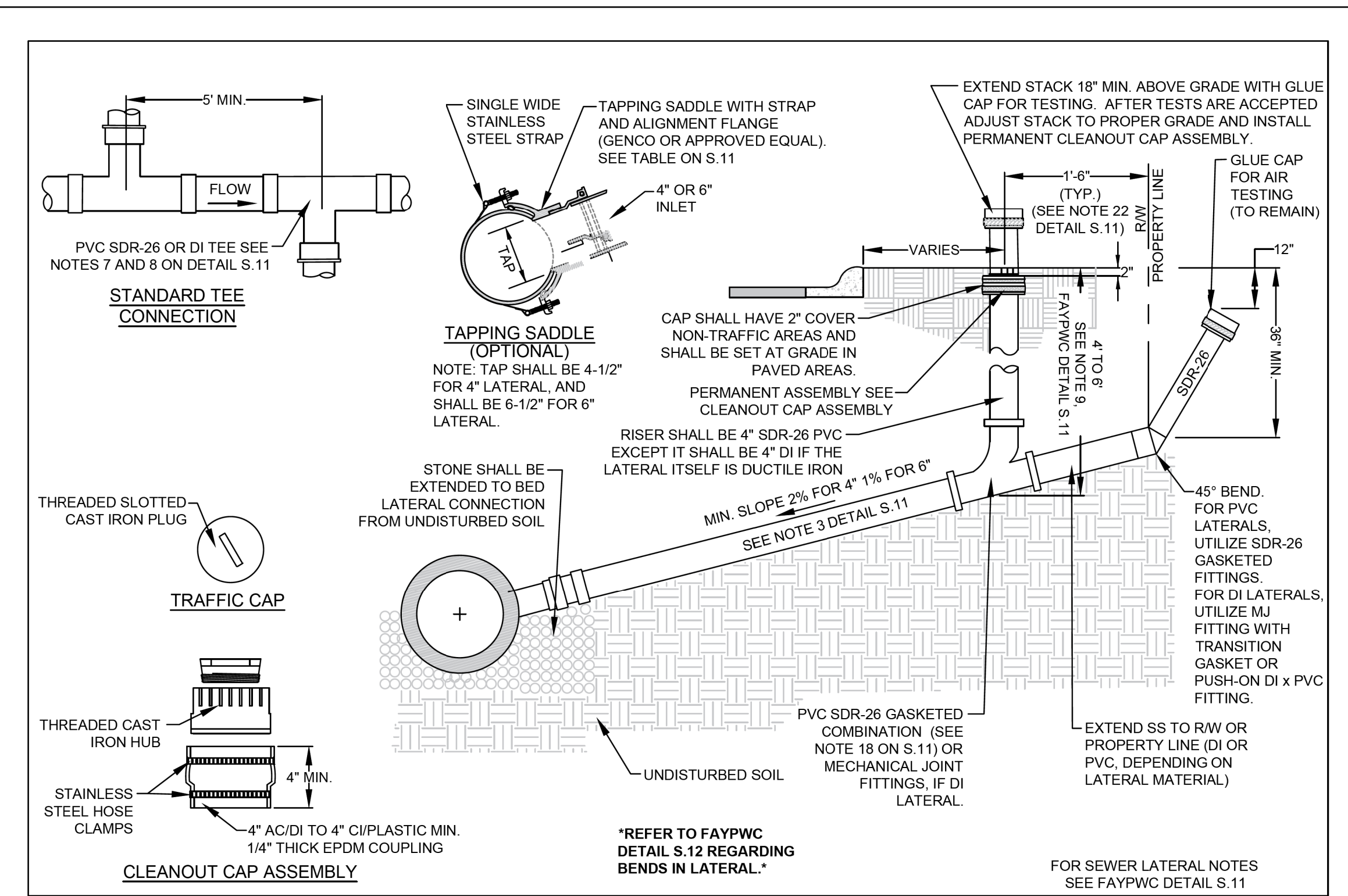
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- NOTES:
- COPOLYMER POLYPROPYLENE PLASTIC STEP SHALL BE PLACED 16" OC IN ALL STRUCTURES 5' DEPTH OR GREATER.
 - STEPS SHALL BE INSTALLED BY MANUFACTURER AND SHALL BE ALIGNED OVER STRUCTURE INVERT OUT. DIMENSIONS SHOWN ARE TO CONVEY THE DESIRED SIZE OF THE STEP AND CONSTRUCTION MAY BE ACCEPTABLE PROVIDED MATERIAL SUBMITTAL IS APPROVED BY FAYPWC.
 - MATERIALS OF CONSTRUCTION AND METHOD OF INSTALLATION SHALL BE IN ACCORDANCE WITH OSHA STANDARDS AND ASTM C-478.

| | | | | | |
|--------------------------|-------------------------------------|---|---|-------------------|--|
| STRUCTURE STEP N.T.S. | | FAYETTEVILLE PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C. | | NO. DATE REVISION | |
| SHEET NO. 1 OF 1 | DWG. NO. S.8 DATE: JAN. 01, 2022 | DWG. BY: FAYPWC APPROVED BY: M.M.M. | WATER RESOURCES ENGINEERING DEPARTMENT | | |

S8-STEP.dwg



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|--|--------------------------------------|---|---|-------------------|--|
| SEWER LATERAL (4-INCH AND 6-INCH) N.T.S. | | FAYETTEVILLE PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C. | | NO. DATE REVISION | |
| SHEET NO. 1 OF 1 | DWG. NO. S.10 DATE: JAN. 01, 2022 | DWG. BY: FAYPWC APPROVED BY: M.M.M. | WATER RESOURCES ENGINEERING DEPARTMENT | | |

S10-RESSLAT.dwg

SEWER LATERAL NOTES

- HOLE IN SANITARY SEWER MAIN MUST BE CUT WITH SHELL CUTTER NO HAMMER TAPS ALLOWED.
- LATERAL SHALL CONFORM TO ASTM SPECS. D-3034 SDR-26 UNLESS OTHERWISE INDICATED AS DI.
- ALL PIPE AND FITTINGS SHALL BE 4" OR 6" UNLESS OTHERWISE SPECIFIED.
- ALL DI PIPE SHALL HAVE AN INTERIOR LINING OF CERAMIC EPOXY (PROTECTO 401). THE ENTIRE DI LATERAL SHALL BE COMPRISED OF DI PIPE AND MECHANICAL JOINT FITTINGS.
- ALL CONNECTIONS SHALL HAVE RUBBER GASKET SEALS INSTALLED.
- SANITARY SEWER LATERAL CLEANOUT STACK SHALL BE LOCATED 18" FROM WATER LATERAL LOCK VALVE WHEN IN THE SAME DITCH.
- INSTALLATION OTHER THAN AS SHOWN MUST BE APPROVED BY THE FAYPWC.
- CONNECTIONS TO THE TOP OF MAIN SHALL NOT BE ALLOWED, UNLESS OTHERWISE APPROVED BY THE FAYPWC PROJECT COORDINATOR.
- THE DESIGN ENGINEER SHALL DETERMINE THE SLOPE AND DEPTH OF THE LATERAL BASED ON THE TOPOGRAPHY OF THE LOT.
- LATERAL SHALL CONFORM TO 2% MINIMUM SLOPE FOR 4" OR 1% MINIMUM SLOPE FOR 6". THE MAXIMUM LENGTH OF A SEWER LATERAL SHALL BE 60 FEET, UNLESS OTHERWISE APPROVED BY FAYPWC.
- SEE INTERIOR DROP STRUCTURE OR SLIDE, MORTAR SLIDE AND SHELF DETAIL FOR VERTICAL DROPS OF MAINS AND LATERALS.
- LATERALS LESS THAN 3' IN DEPTH OR GREATER TAN 20' DEPTH SHALL UTILIZE DUCTILE IRON PIPE AND FITTINGS WITH CERAMIC EPOXY (PROTECTO 401), OR WHEN SEPARATION REQUIREMENTS CANNOT BE MET.
- ENTIRE SEWER LATERAL ASSEMBLY SHALL BE AIR TESTED CONCURRENTLY WITH SEWER MAIN.
- INDIVIDUAL LATERALS SHALL BE CLEANED AND FLUSHED PRIOR TO FLUSHING SANITARY SEWER MAINS.
- LATERAL SHALL NOT BE BACK-FILLED UNTIL INSPECTED BY THE FAYPWC PROJECT COORDINATOR.
- WYE CONNECTIONS SHALL NOT BE USED TO TIE LATERALS INTO A MANHOLE.
- IF BENDS ARE APPROVED BY THE PROJECT COORDINATOR, STONE BEDDING IS REQUIRED TO BE INSTALLED FROM UNDISTURBED (SEE DETAIL S.12) SOIL TO BOTTOM OF BEND.
- PVC COMBINATION SHALL BE A MOLDED WYE AND BEND, GASKETED, SDR-26, AS MANUFACTURED BY HARCO, GPK, PLASTIC TRENDS, OR APPROVED EQUAL.
- NO MORE THAN 4, FOUR-INCH LATERALS OR 3, SIX-INCH LATERALS SHALL ENTER A 4' DIAMETER TERMINAL MANHOLE. NO MORE THAN 2 LATERALS (REGARDLESS OF SIZE) SHALL ENTER ALL OTHER 4' DIAMETER MANHOLES. ALL LATERALS SHALL HAVE AN INDIVIDUAL TROUGH. 5' DIAMETER MANHOLES SHALL BE USED IF THE ABOVE CONDITIONS ARE NOT MET.
- ALL LATERALS (4" AND 6") SHALL UTILIZE A 4" RISER (STACK).
- REFER TO DETAIL S.12 FOR SEPARATION REQUIREMENTS.
- FOR SINGLE FAMILY RESIDENTIAL LOTS, CLEANOUT SHALL BE LOCATED 18" FROM RIGHT-OF-WAY OR EASEMENT. FOR ALL NON-SINGLE FAMILY LOTS, CLEANOUT SHALL BE NO CLOSER THAN 10' TO FRONT OF BUILDING, UNLESS OTHERWISE APPROVED BY FAYPWC.

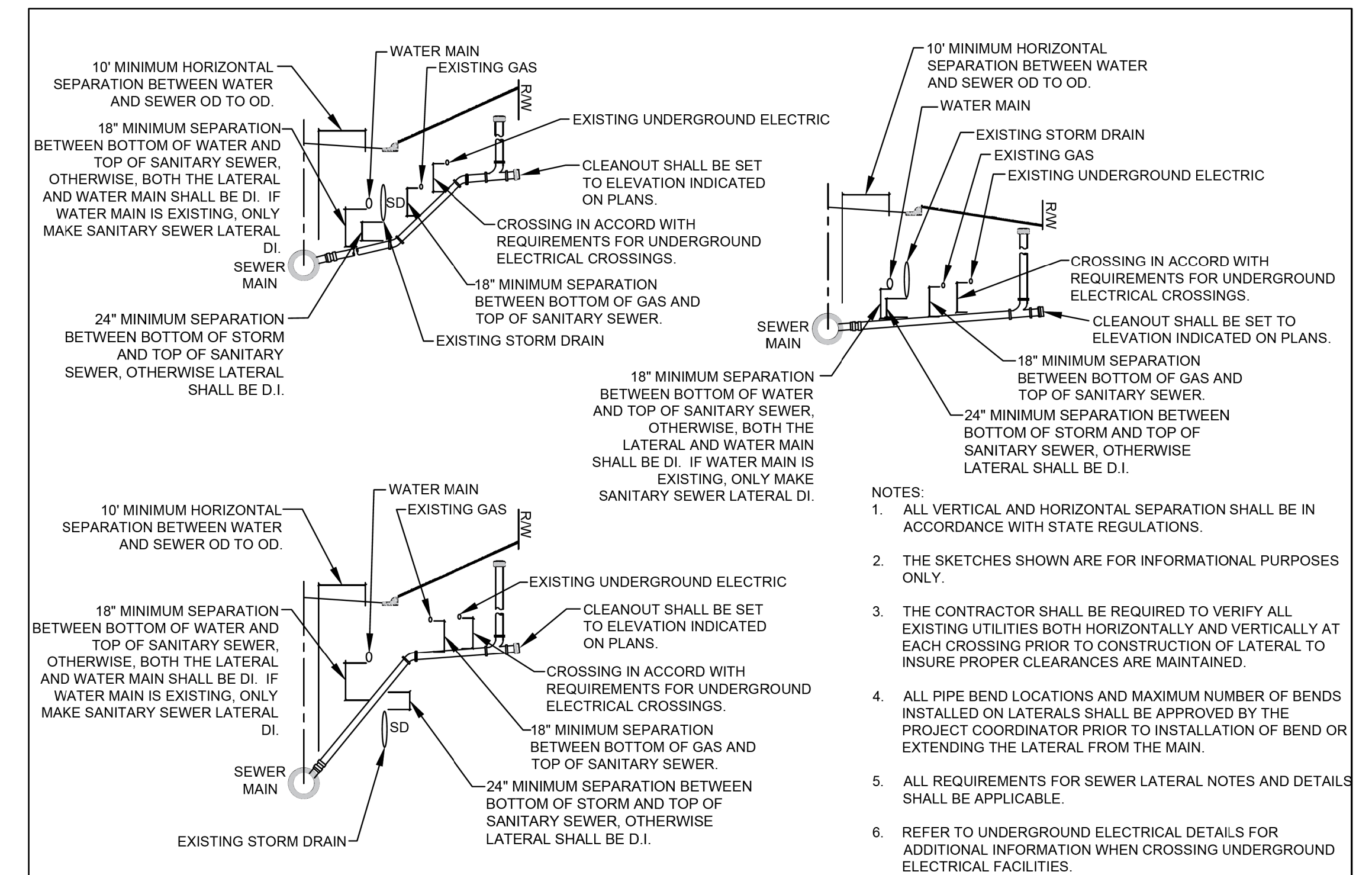
THE FOLLOWING TABLE SUMMARIZES THE MATERIALS TO BE UTILIZED FOR SEWER MAIN TO LATERAL CONNECTIONS.

| | |
|-------------|--|
| PVC Main | DI Main |
| DI Lateral | MJ fitting or approved saddle |
| PVC Lateral | MJ fitting with transition gasket or approved saddle |

NOTE: REFER TO FAYPWC TECHNICAL SPECIFICATIONS FOR ADDITIONAL INFORMATION.

| | | | | | |
|--|--------------------------------------|---|---|-------------------|--|
| SEWER LATERAL NOTES (4-INCH AND 6-INCH) | | FAYETTEVILLE PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C. | | NO. DATE REVISION | |
| SHEET NO. 1 OF 1 | DWG. NO. S.11 DATE: JAN. 01, 2022 | DWG. BY: FAYPWC APPROVED BY: M.M.M. | WATER RESOURCES ENGINEERING DEPARTMENT | | |

S11-RESSLAT-NOTES.dwg



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|--|--------------------------------------|---|---|-------------------|--|
| SEWER LATERAL UTILITY CONFLICT SEPARATION REQUIREMENTS N.T.S. | | FAYETTEVILLE PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C. | | NO. DATE REVISION | |
| SHEET NO. 1 OF 1 | DWG. NO. S.12 DATE: JAN. 01, 2022 | DWG. BY: FAYPWC APPROVED BY: M.M.M. | WATER RESOURCES ENGINEERING DEPARTMENT | | |

S12-UTIL-CONFLICT.dwg

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PROJECT TYPICAL DETAILS

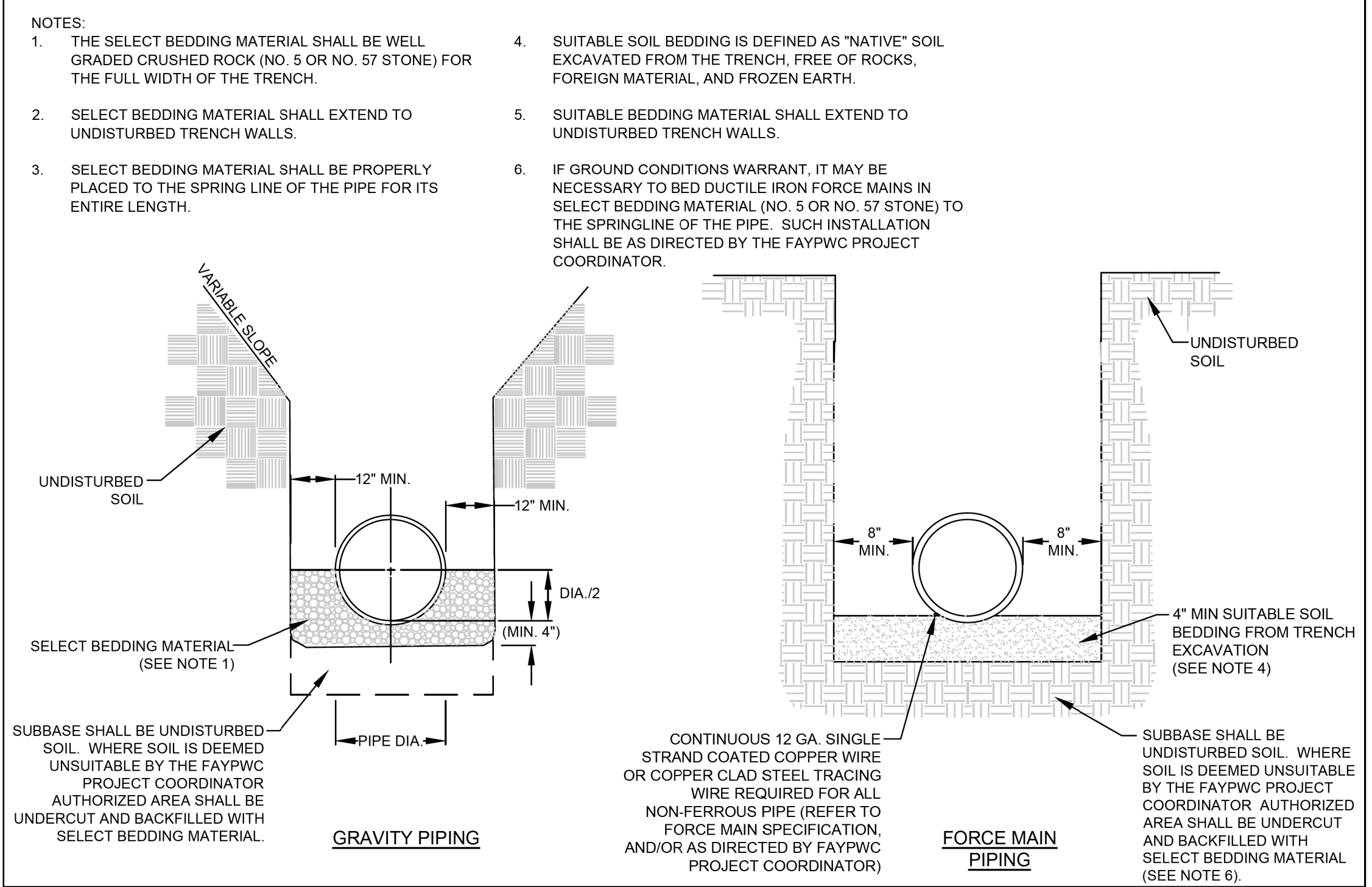


2505 WOODCREEK ROAD
FAYETTEVILLE, NC 28404
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| PROJECT REFERENCE NO. | SHEET NO. |
| U-2519BB | UC-3M |
| DESIGNED BY: DJ | |
| DRAWN BY: DJ | |
| CHECKED BY: TR | |
| APPROVED BY: TR | |
| REVISED: | 3/24/2022 |
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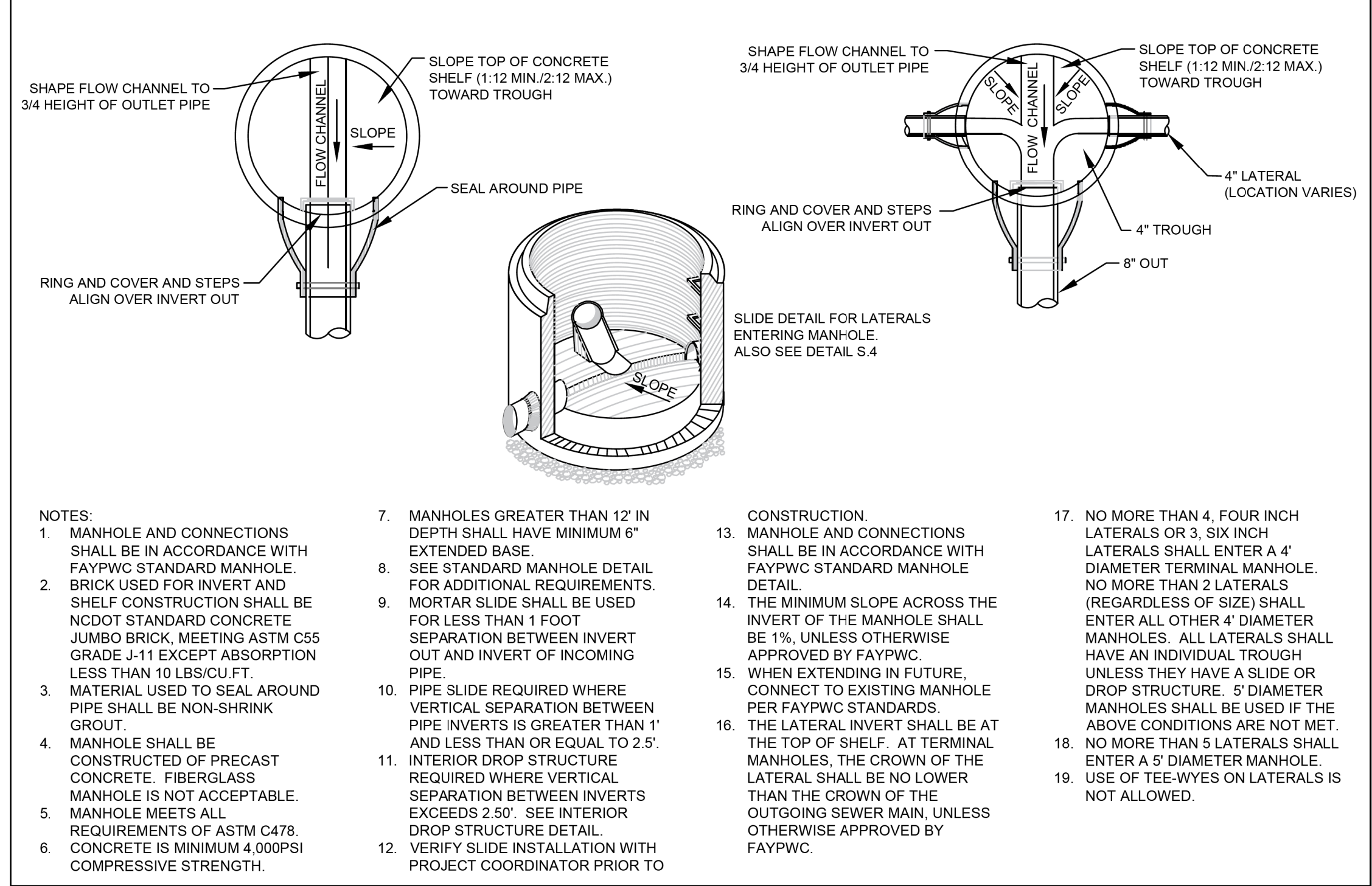
UTILITY CONSTRUCTION

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|-------------------------|---------------------|---------------------|---|--|--|--|-----|----------|---------------|
| SEWER BEDDING N.T.S. | | | FAYETTEVILLE PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C. | | | | NO. | DATE | REVISION |
| SHEET NO. 1 OF 1 | DWG. NO. S.13 | DWG. BY: FAYPWC | WATER RESOURCES ENGINEERING DEPARTMENT | | | | 1 | 01/01/05 | REVISED NOTES |
| | DATE: JAN. 01, 2022 | APPROVED BY: M.M.M. | | | | | 2 | 01/01/16 | REVISED NOTES |

S13-SEWER-BEDDING.dwg



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| TERMINAL MANHOLE N.T.S. | | | FAYETTEVILLE PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C. | | | | NO. | DATE | REVISION |
| SHEET NO. 1 OF 1 | DWG. NO. S.20 | DWG. BY: FAYPWC | WATER RESOURCES ENGINEERING DEPARTMENT | | | | | | |
| | DATE: JAN. 01, 2022 | APPROVED BY: M.M.M. | | | | | | | |

S20-TERMINAL-MANHOLE.dwg

- NOTES:
- THE SELECT BEDDING MATERIAL SHALL BE WELL GRADED CRUSHED ROCK (NO. 5 OR NO. 57 STONE) FOR THE FULL WIDTH OF THE TRENCH.
 - SELECT BEDDING MATERIAL SHALL EXTEND TO UNDISTURBED TRENCH WALLS.
 - SELECT BEDDING MATERIAL SHALL BE PROPERLY PLACED TO THE SPRING LINE OF THE PIPE FOR ITS ENTIRE LENGTH.

- SUITABLE SOIL BEDDING IS DEFINED AS "NATIVE" SOIL EXCAVATED FROM THE TRENCH, FREE OF ROCKS, FOREIGN MATERIAL, AND FROZEN EARTH.
- SUITABLE BEDDING MATERIAL SHALL EXTEND TO UNDISTURBED TRENCH WALLS.
- IF GROUND CONDITIONS WARRANT, IT MAY BE NECESSARY TO BED DUCTILE IRON FORCE MAINS IN SELECT BEDDING MATERIAL (NO. 5 OR NO. 57 STONE) TO THE SPRINGLINE OF THE PIPE. SUCH INSTALLATION SHALL BE AS DIRECTED BY THE FAYPWC PROJECT COORDINATOR.

- NOTES:
- MANHOLE AND CONNECTIONS SHALL BE IN ACCORDANCE WITH FAYPWC STANDARD MANHOLE.
 - BRICK USED FOR INVERT AND SHELF CONSTRUCTION SHALL BE NCDOT STANDARD CONCRETE JUMBO BRICK, MEETING ASTM C55 GRADE J-11 EXCEPT ABSORPTION LESS THAN 10 LBS/CU.FT.
 - MATERIAL USED TO SEAL AROUND PIPE SHALL BE NON-SHRINK GROUT.
 - MANHOLE SHALL BE CONSTRUCTED OF PRECAST CONCRETE. FIBERGLASS MANHOLE IS NOT ACCEPTABLE.
 - MANHOLE MEETS ALL REQUIREMENTS OF ASTM C478.
 - CONCRETE IS MINIMUM 4,000PSI COMPRESSIVE STRENGTH.

- MANHOLES GREATER THAN 12' IN DEPTH SHALL HAVE MINIMUM 6" EXTENDED BASE.
- SEE STANDARD MANHOLE DETAIL FOR ADDITIONAL REQUIREMENTS.
- MORTAR SLIDE SHALL BE USED FOR LESS THAN 1 FOOT SEPARATION BETWEEN INVERT OUT AND INVERT OF INCOMING PIPE.
- PIPE SLIDE REQUIRED WHERE VERTICAL SEPARATION BETWEEN PIPE INVERTS IS GREATER THAN 1' AND LESS THAN OR EQUAL TO 2.5'.
- INTERIOR DROP STRUCTURE REQUIRED WHERE VERTICAL SEPARATION BETWEEN INVERTS EXCEEDS 2.50'. SEE INTERIOR DROP STRUCTURE DETAIL.
- VERIFY SLIDE INSTALLATION WITH PROJECT COORDINATOR PRIOR TO CONSTRUCTION.

- CONSTRUCTION.
- MANHOLE AND CONNECTIONS SHALL BE IN ACCORDANCE WITH FAYPWC STANDARD MANHOLE DETAIL.
 - THE MINIMUM SLOPE ACROSS THE INVERT OF THE MANHOLE SHALL BE 1%, UNLESS OTHERWISE APPROVED BY FAYPWC.
 - WHEN EXTENDING IN FUTURE, CONNECT TO EXISTING MANHOLE PER FAYPWC STANDARDS.
 - THE LATERAL INVERT SHALL BE AT THE TOP OF SHELF. AT TERMINAL MANHOLES, THE CROWN OF THE LATERAL SHALL BE NO LOWER THAN THE CROWN OF THE OUTGOING SEWER MAIN, UNLESS OTHERWISE APPROVED BY FAYPWC.

- NO MORE THAN 4, FOUR INCH LATERALS OR 3, SIX INCH LATERALS SHALL ENTER A 4' DIAMETER TERMINAL MANHOLE. NO MORE THAN 2 LATERALS (REGARLESS OF SIZE) SHALL ENTER ALL OTHER 4' DIAMETER MANHOLES. ALL LATERALS SHALL HAVE AN INDIVIDUAL TROUGH UNLESS THEY HAVE A SLIDE OR DROP STRUCTURE. 5' DIAMETER MANHOLES SHALL BE USED IF THE ABOVE CONDITIONS ARE NOT MET.
- NO MORE THAN 5 LATERALS SHALL ENTER A 5' DIAMETER MANHOLE.
- USE OF TEE-WYES ON LATERALS IS NOT ALLOWED.

5/14/22

PROJECT TYPICAL DETAILS

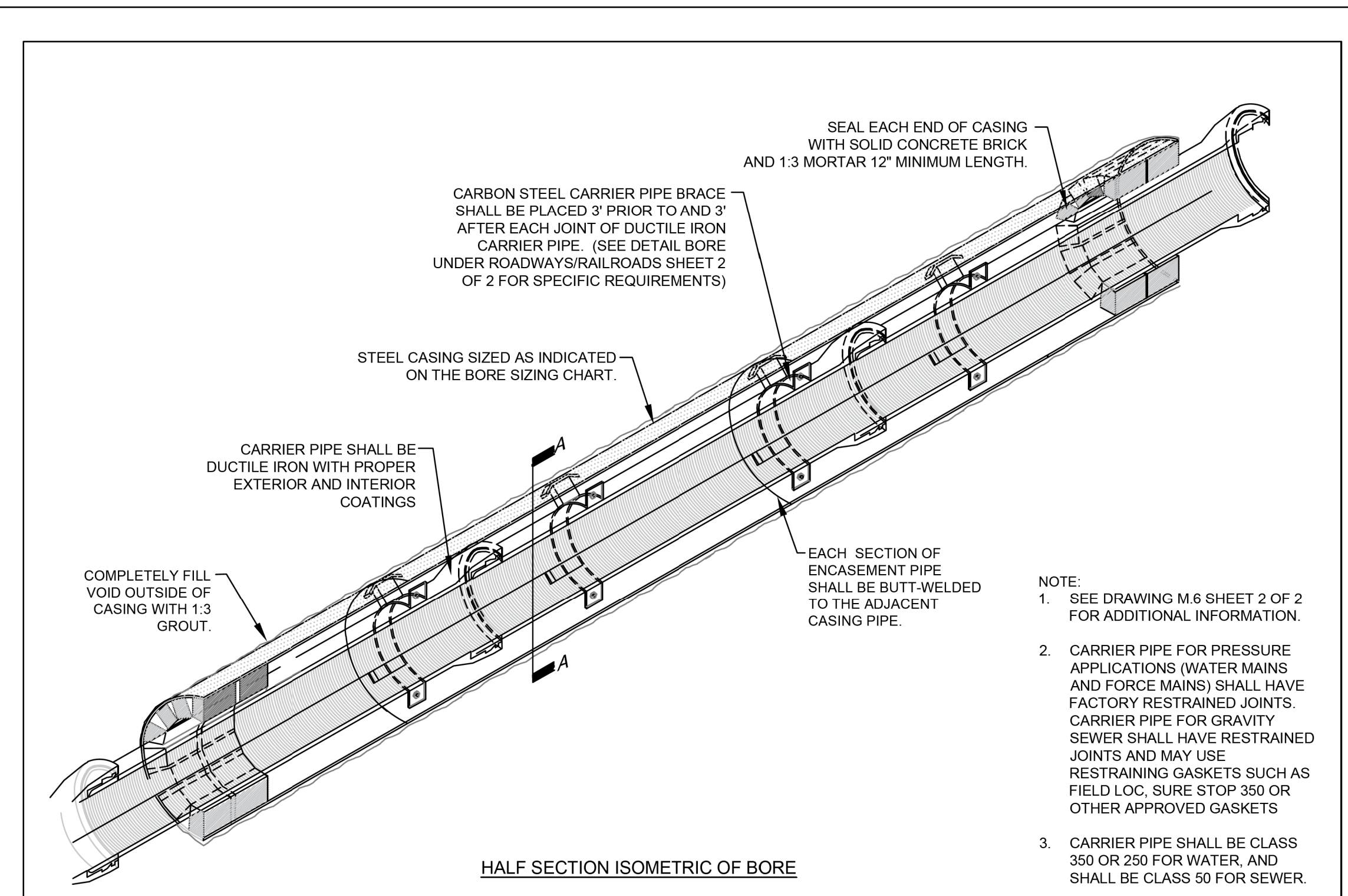


2505 WILLOW ROAD
SUITE 110
RALEIGH, NC 27607
PHONE: 919.891.8899
NC COLA NO. F4802

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| PROJECT REFERENCE NO. | SHEET NO. |
| U-2519BB | UC-3N |
| DESIGNED BY: DJ | |
| DRAWN BY: DJ | |
| CHECKED BY: TR | |
| APPROVED BY: TR | |
| REVISED: | |
| | 3/24/2022 |
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UTILITY CONSTRUCTION

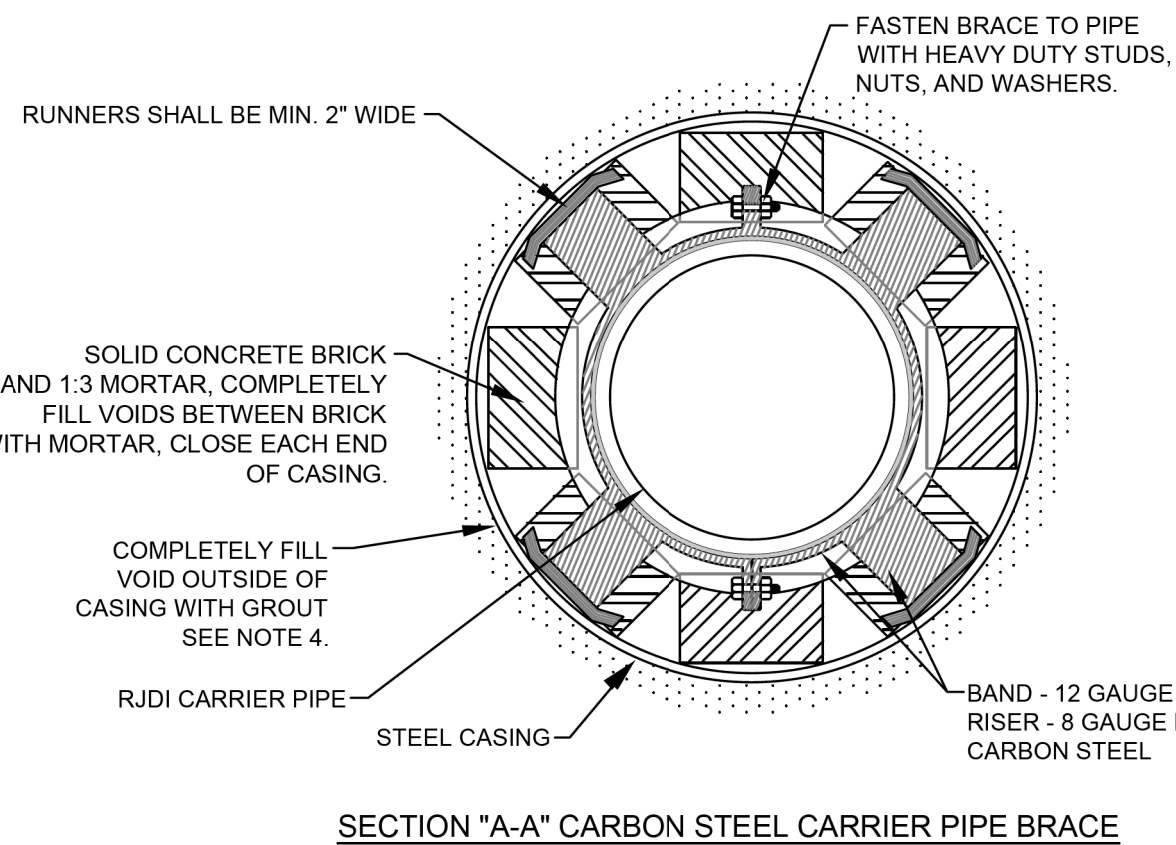
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|---|--|---|---|--|-----|-------|---------------------|
| BORE UNDER ROADWAYS/RAILROADS N.T.S. | | FAYETTEVILLE PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C. | | | NO. | DATE | REVISION |
| SHEET NO. 1 OF 2 | DWG. NO. M.6 DATE: JAN. 01, 2022 | DWG. BY: FAYPWC APPROVED BY: M.M.M. | WATER RESOURCES ENGINEERING DEPARTMENT | | 1 | 01/05 | ADDED NOTES 2 AND 3 |
| M6-BORE-ROAD-RAIL.dwg | | | | | | | |

| CARRIER PIPE SIZE | MIN. CASING SIZE | ROADWAYS MIN. WALL THICKNESS | RAILROADS MIN. WALL THICKNESS |
|-------------------|------------------|---------------------------------|----------------------------------|
| 4" | 10" | 0.188" | 0.188" |
| 6" | 12" | 0.25" | 0.281" |
| 8" | 16" | 0.25" | 0.281" |
| 12" | 24" | 0.25" | 0.375" |
| 16" | 30" | 0.312" | 0.469" |
| 18" | 30" | 0.312" | 0.469" |
| 24" | 36" | 0.375" | 0.532" |
| 30" | 42" | 0.500" | 0.625" |
| 36" | 48" | 0.500" | 0.688" |

*CONTRACTOR MAY SUBSTITUTE A LARGER SIZE CASING PIPE HAVING THE MINIMUM WALL THICKNESS SHOWN FOR SEWER MAINS. ALL ADDITIONAL COSTS SHALL BE INCLUDED IN THE NET PRICE BID FOR BORING AND JACKING.



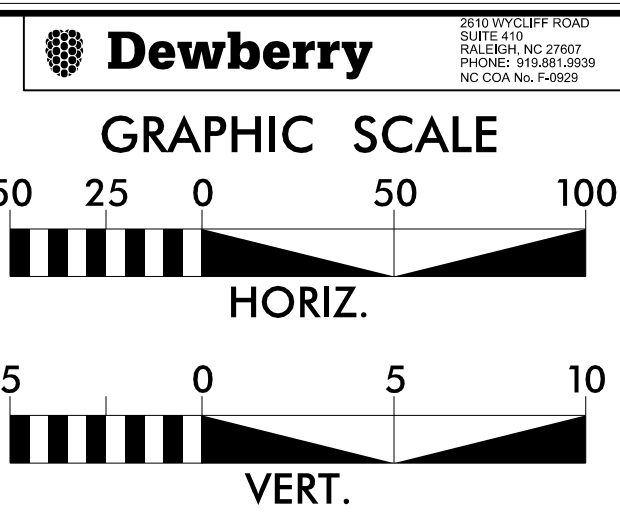
NOTES:

- INSTALLATION SHALL BE DRY BORE AND JACKING OF SMOOTH WALL STEEL PIPE. JETTING OR WET BORING WITH WATER SHALL NOT BE ALLOWED.
- SEE BORE SIZING CHART FOR CARRIER PIPE SIZE AND STEEL CASING SIZE, MINIMUM DIAMETER, AND WALL THICKNESS.
- CASING PIPE SHALL BE IN ACCORDANCE WITH ASTM A-53, GRADE B WITH A MINIMUM YIELD STRENGTH OF 35,000PSI.
- EACH END OF ENCASMENT TO BE PLUGGED WITH BRICK. ALL VOIDS OUTSIDE THE CASING PIPE SHALL BE COMPLETELY FILLED WITH 1:3 PORTLAND CEMENT GROUT AT SUFFICIENT PRESSURE TO INSURE NO SETTLEMENT OF ROADWAY/RAILROAD. METHOD OF GROUTING SHALL BE AS APPROVED BY THE PERMITTING AGENCY.
- IT IS RECOMMENDED THAT THE BORE BE ACCOMPLISHED BEFORE PIPE CONSTRUCTION BEGINS.
- THE BORING SHALL BE PERFORMED FROM "UPSTREAM" TO "DOWNSTREAM" DIRECTION MAINTAINING THE CRITICAL DOWNSTREAM INVERT ELEVATION. SHOULD THE BORE NOT BE ON GRADE, A REVISED PLAN SHALL BE SUBMITTED TO FAYPWC FOR APPROVAL.
- THE BORING OPERATION SHALL BE CONDUCTED IN A MANNER THAT THE FLOW OF TRAFFIC IS NOT IMPEDED OR IN SUCH A MANNER SO AS NOT TO CREATE A HAZARD.
- IF AN OBSTRUCTION IS ENCOUNTERED DURING THE BORING OPERATION, THE AUGER SHALL BE WITHDRAWN, THE EXCESS CASING PIPE CUT-OFF, CAPPED AND THE INTERIOR AND EXTERIOR VOIDS SHALL BE COMPLETELY FILLED WITH 1:3 PORTLAND CEMENT GROUT UNDER PRESSURE. NO SEPARATE PAYMENT FOR UNSUCCESSFUL BORES.
- CONTRACTOR SHALL FIELD ADJUST AND INSTALL PROPER PIPE BRACES TO ACCOMPLISH GRADE AND INVERTS AS SHOWN ON THE DRAWINGS.
- A MANUAL CONTROL STEERING HEAD OR OTHER GUIDANCE SYSTEM IS RECOMMENDED FOR BORES 30" DIAMETER AND/OR LARGER AND FOR BORES EXCEEDING 100' IN LENGTH OR AS SPECIFIED.
- SUBCONTRACTORS SHALL ADHERE TO ALL PERMIT REQUIREMENTS AND SHALL PROVIDE APPROVED INSURANCE CERTIFICATES AS REQUIRED.
- CONTRACTOR SHALL EXECUTE AND PERFORM ALL REQUIREMENTS AND CONDITIONS STIPULATED BY THE PERMITTING AGENCY.
- SEE DRAWING M.6 SHEET 1 OF 2 FOR ADDITIONAL INFORMATION.
- CARRIER PIPE FOR PRESSURE APPLICATIONS (WATER MAINS AND FORCE MAINS) SHALL HAVE FACTORY RESTRAINED JOINTS. CARRIER PIPE FOR GRAVITY SEWER SHALL HAVE RESTRAINED JOINTS AND MAY USE RESTRAINING GASKETS SUCH AS FIELD LOC, SURE STOP 350, GRIPRING, OR OTHER APPROVED GASKETS.

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|---|--|---|---|--|-----|----------|--|
| BORE UNDER ROADWAYS/RAILROADS N.T.S. | | FAYETTEVILLE PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C. | | | NO. | DATE | REVISION |
| SHEET NO. 2 OF 2 | DWG. NO. M.6 DATE: JAN. 01, 2022 | DWG. BY: FAYPWC APPROVED BY: M.M.M. | WATER RESOURCES ENGINEERING DEPARTMENT | | 1 | 02/11/04 | ADDED 6" CARRIER PIPE TO BORE SIZING CHART |
| M6-BORE-ROAD-RAIL.dwg | | | | | | | |

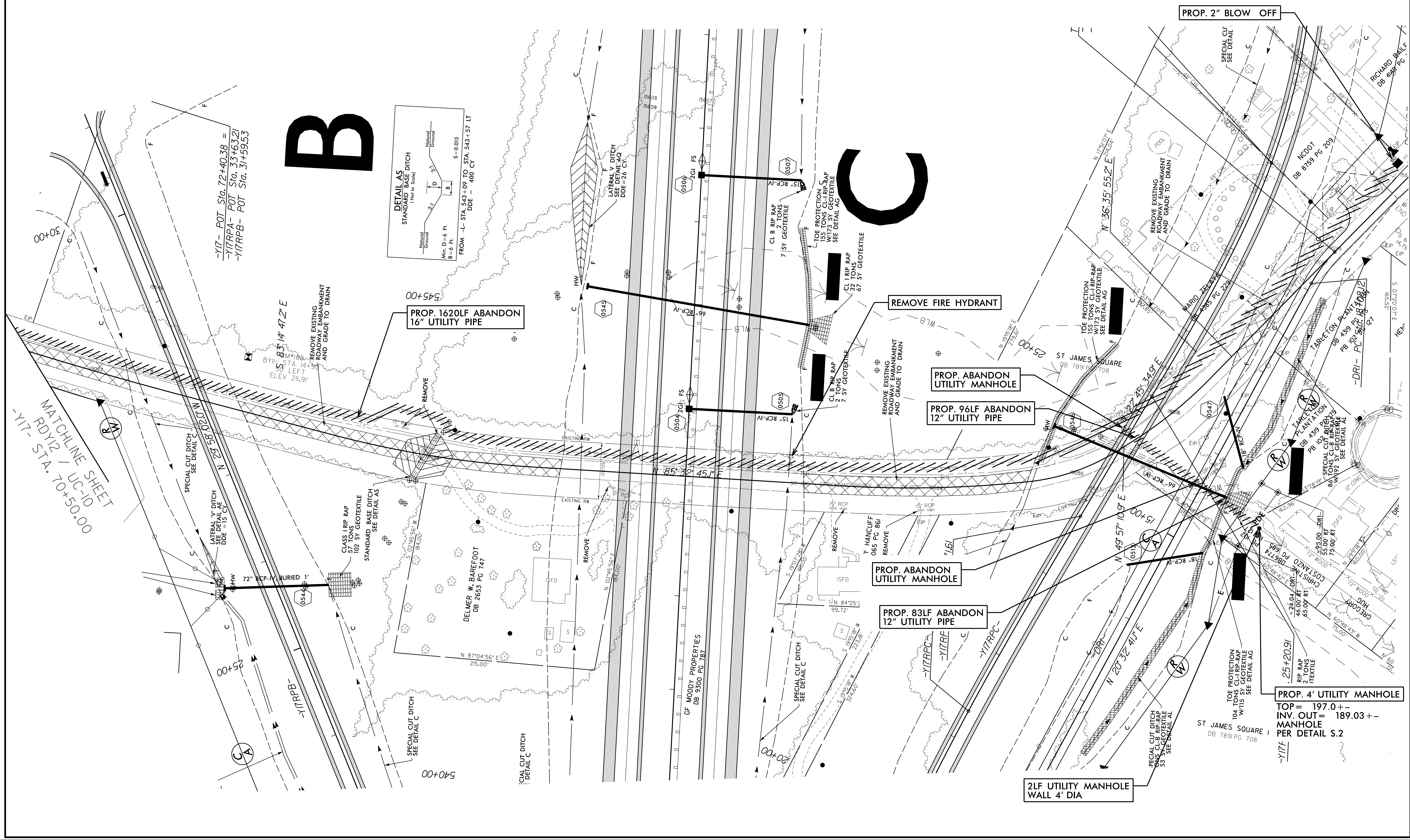
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NOTE:
 THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 500 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.



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|---|---------------------------|
| PROJECT REFERENCE NO. U-2519BB | SHEET NO. UC-04 |
| DESIGNED BY: DJ | |
| DRAWN BY: DJ | |
| CHECKED BY: TR | |
| APPROVED BY: TR | |
| REVISER: | DATE: 3/24/2022 |
| NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151 | |
| UTILITY CONSTRUCTION PLANS ONLY | |

UTILITY CONSTRUCTION

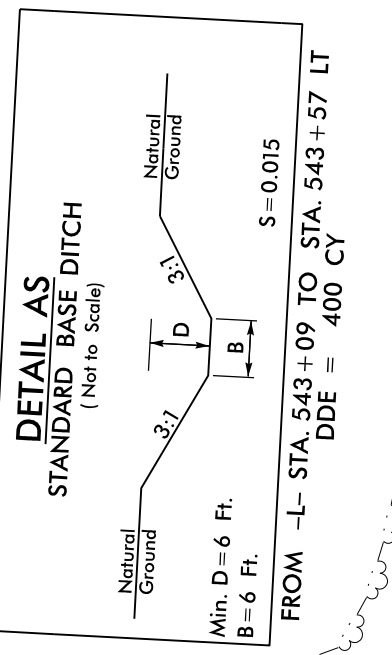


B

C

MATCHLINE SHEET
 RDY12 / UC-10
 -Y17- STA. 70+50.00

-Y17- POT Sta. 72+40.38 =
 -Y17RPA- POT Sta. 33+63.21
 -Y17RPB- POT Sta. 31+59.53



PROP. 1620LF ABANDON
 16\"/>

REMOVE FIRE HYDRANT

PROP. ABANDON
 UTILITY MANHOLE

PROP. 96LF ABANDON
 12\"/>

PROP. ABANDON
 UTILITY MANHOLE

PROP. 83LF ABANDON
 12\"/>

PROP. 4' UTILITY MANHOLE
 TOP = 197.0+-
 INV. OUT = 189.03+-
 MANHOLE PER DETAIL S.2

2LF UTILITY MANHOLE
 WALL 4' DIA

DELIMER W. BAREFOOT
 DB 2653 PG 747

OF MOODY PROPERTIES
 DB 9300 PG. 787

ST JAMES SQUARE
 DB 7891 PG 708

CRISTIANO
 DB 9574 PG 595
 46.00 RT
 65.00 RT

CRISTIANO
 DB 9574 PG 595
 46.00 RT
 65.00 RT

CRISTIANO
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 46.00 RT
 65.00 RT

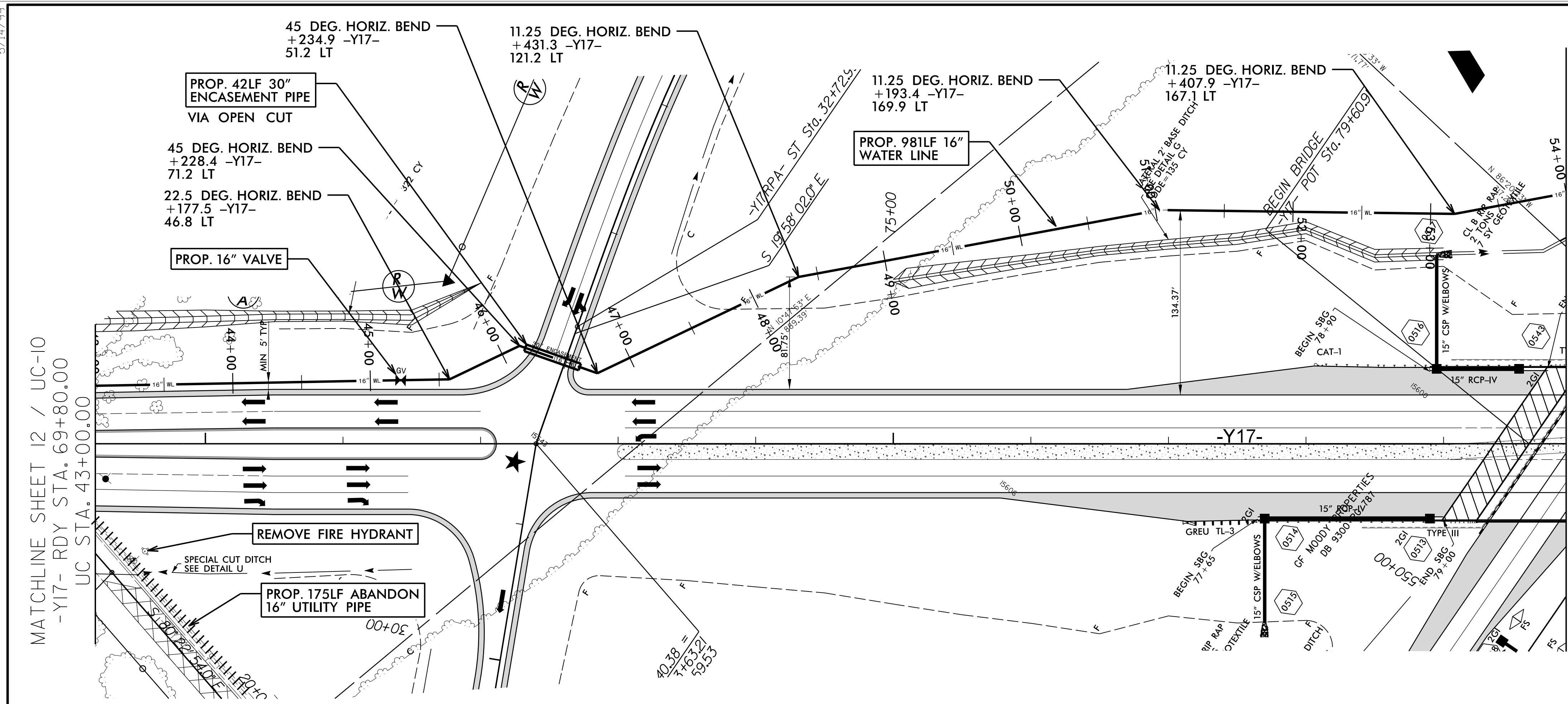
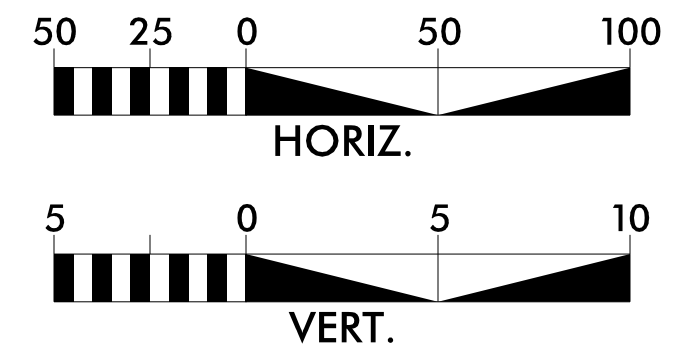
CRISTIANO
 DB 9574 PG 595
 46.00 RT
 65.00 RT



| PROJECT REFERENCE NO. | SHEET NO. |
|--|---------------------------------|
| U-2519BB | UC-04A |
| DESIGNED BY: DJ | |
| DRAWN BY: DJ | |
| CHECKED BY: TR | |
| APPROVED BY: TR | |
| REVISED: | |
| NORTH CAROLINA DEPARTMENT OF TRANSPORTATION | |
| UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151 | UTILITY CONSTRUCTION PLANS ONLY |

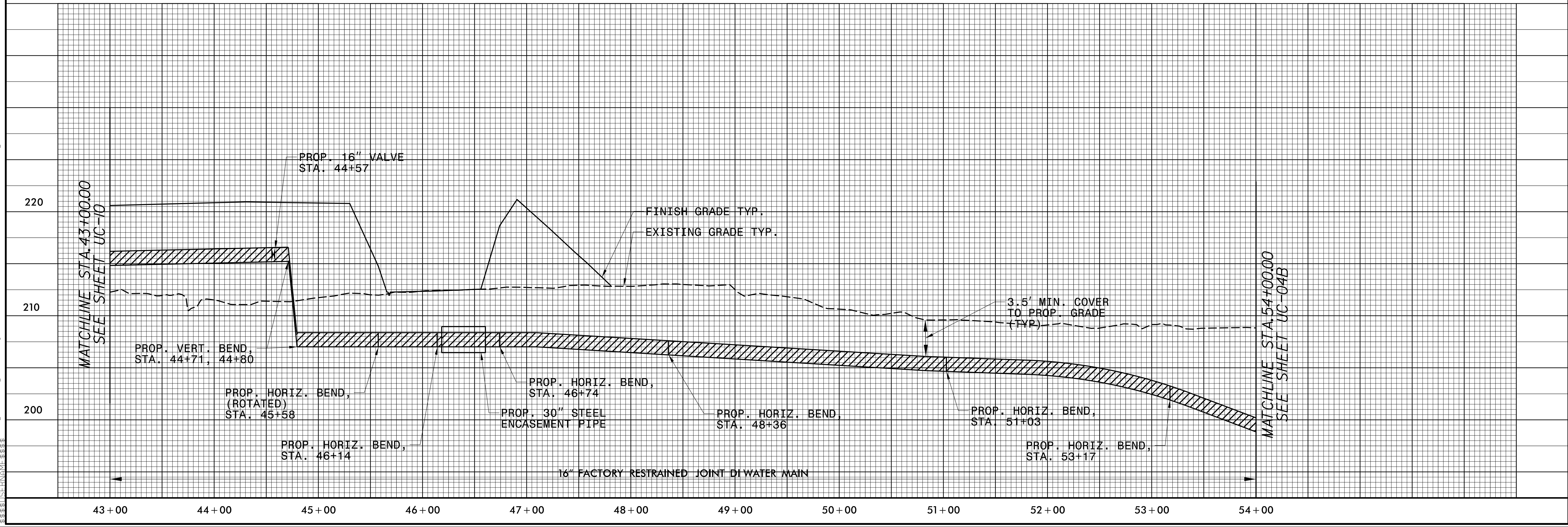
UTILITY CONSTRUCTION

GRAPHIC SCALE



NOTE:
 THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 2100 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

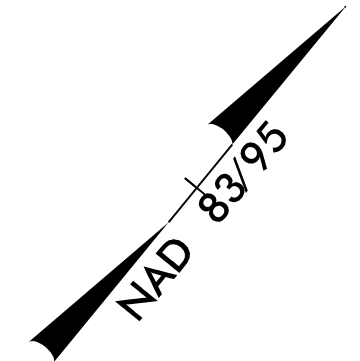
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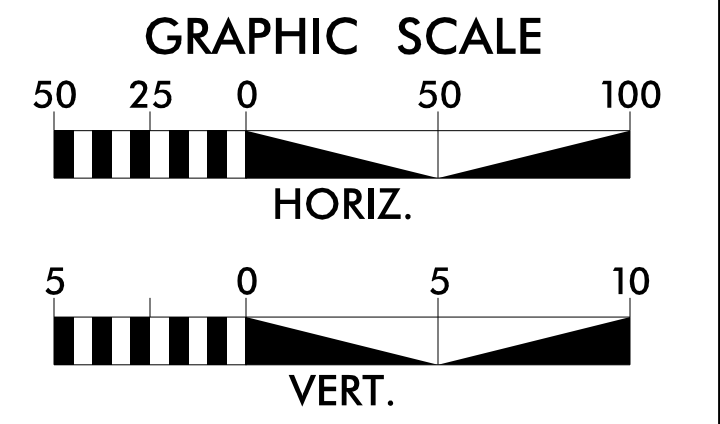


255 W. GOLF COURSE ROAD
SUITE 110
RALEIGH, NC 27601
PHONE: 919.891.8889
NC CCA No. F4802

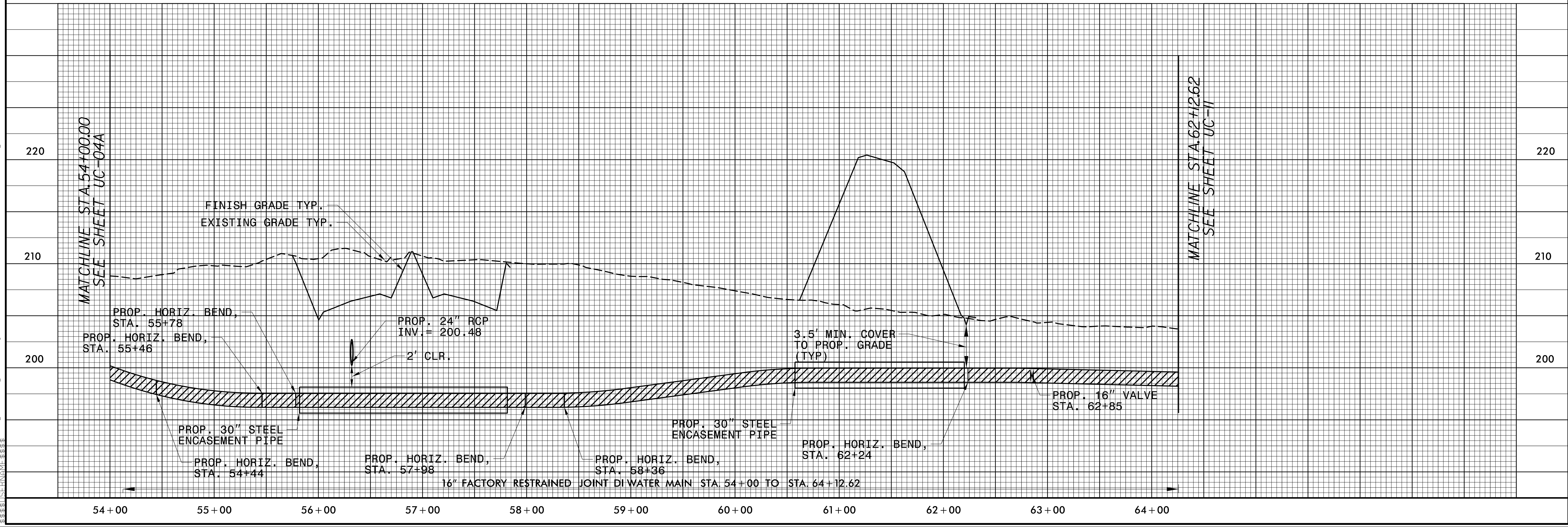
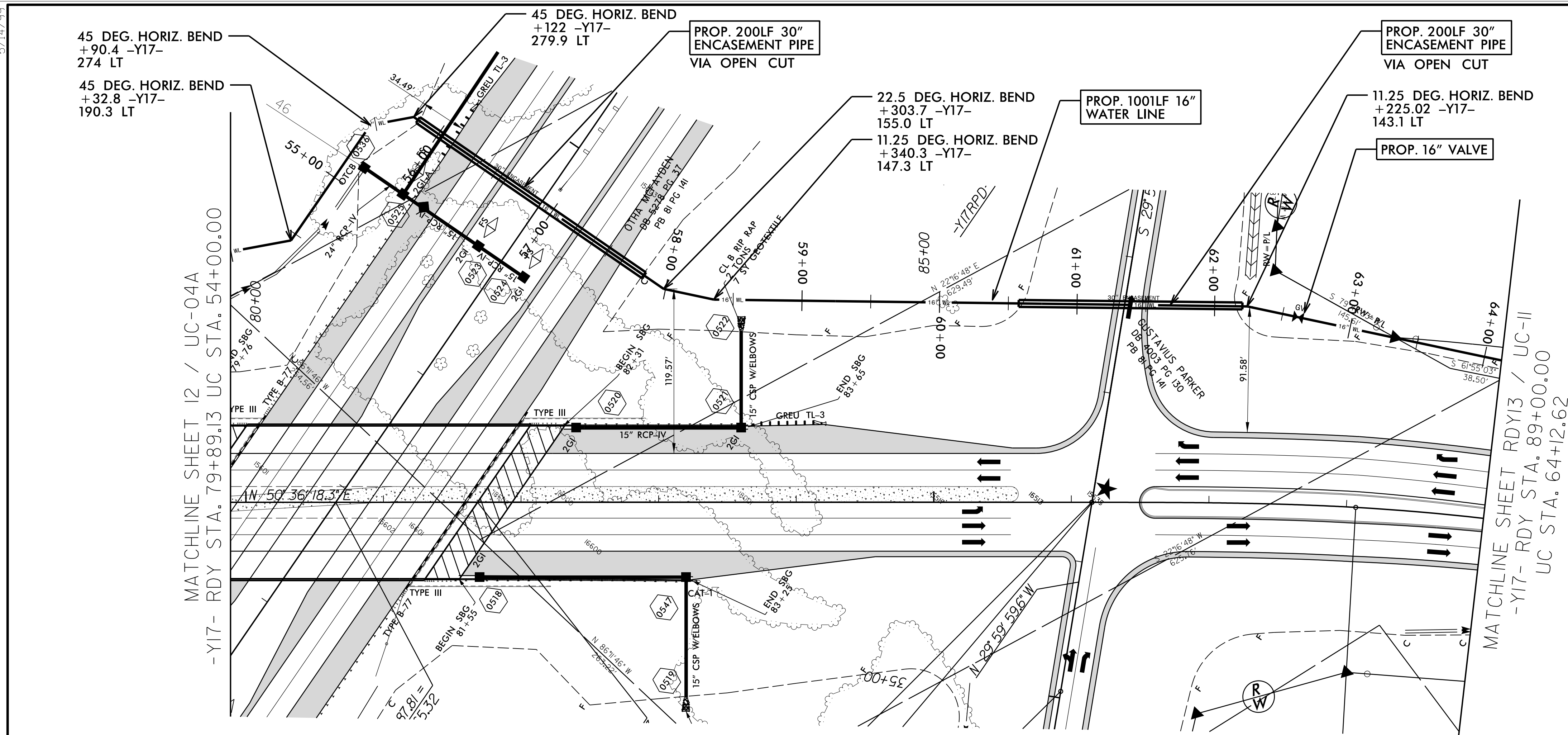
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| PROJECT REFERENCE NO. <i>U-2519BB</i> | SHEET NO. <i>UC-04B</i> |
| DESIGNED BY: DJ | |
| DRAWN BY: DJ | |
| CHECKED BY: TR | |
| APPROVED BY: TR | |
| REVISED: | 3/24/2022 |
| NORTH CAROLINA DEPARTMENT OF TRANSPORTATION | |
| UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151 | UTILITY CONSTRUCTION PLANS ONLY |



UTILITY CONSTRUCTION



NOTE:
THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 2100 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

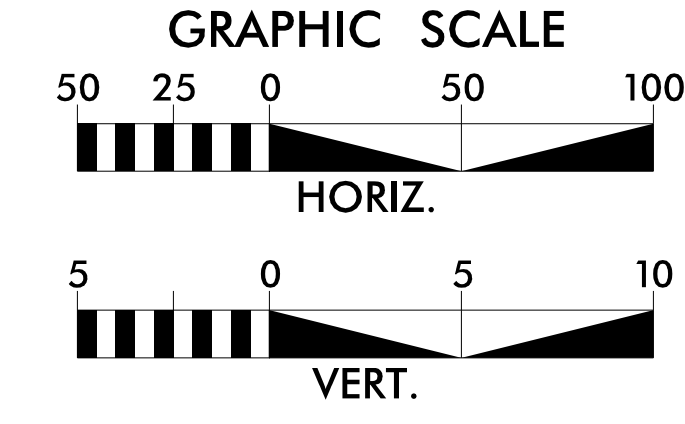


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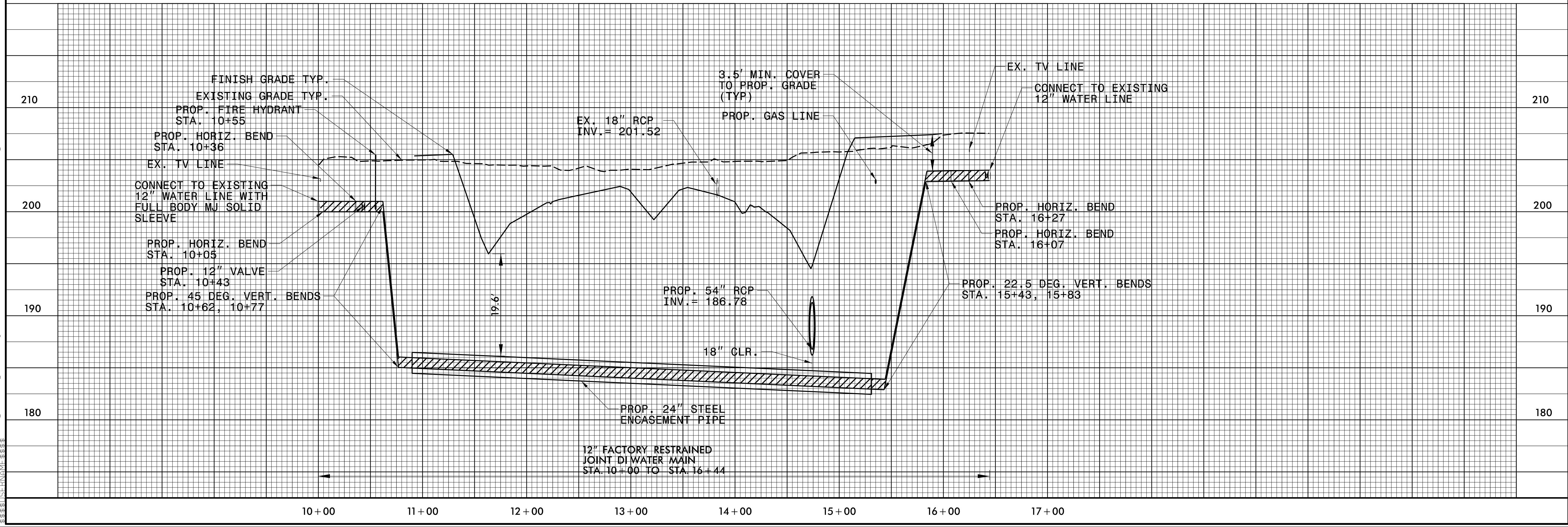
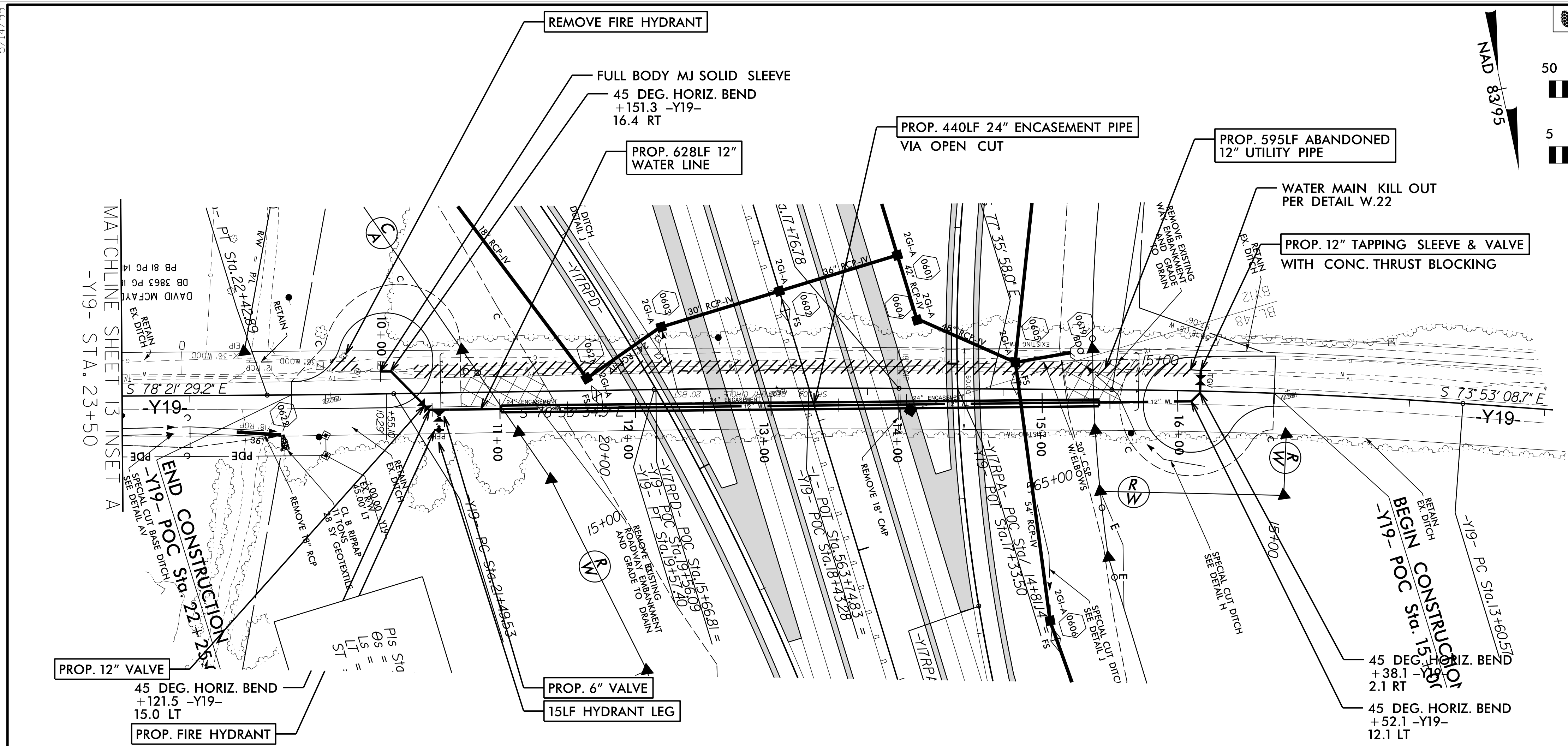
2550 WOODHUFF ROAD
SUITE 110
FAYETTEVILLE, NC 28404
PHONE: 910.881.8889
NC CCA #A-24602

| | |
|---|-----------|
| PROJECT REFERENCE NO. | SHEET NO. |
| U-2519BB | UC-05 |
| DESIGNED BY: DJ | |
| DRAWN BY: DJ | |
| CHECKED BY: TR | |
| APPROVED BY: TR | |
| REVISED: | 3/24/2022 |
| NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151 | |
| UTILITY CONSTRUCTION PLANS ONLY | |



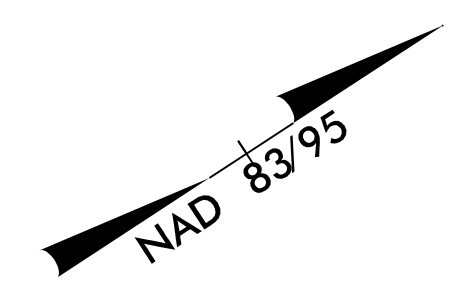
UTILITY CONSTRUCTION

NOTE:
 THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 1900 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

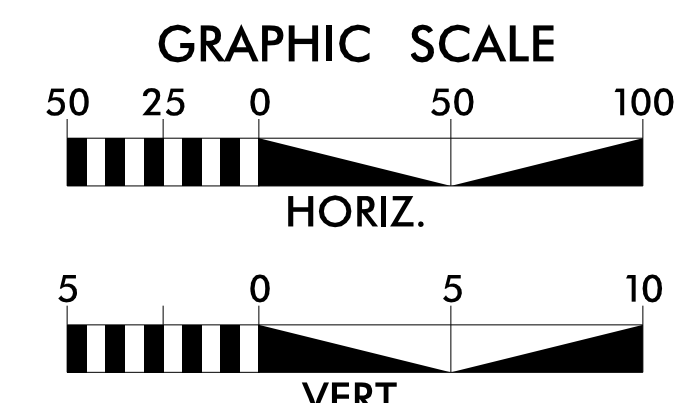


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5/14/22

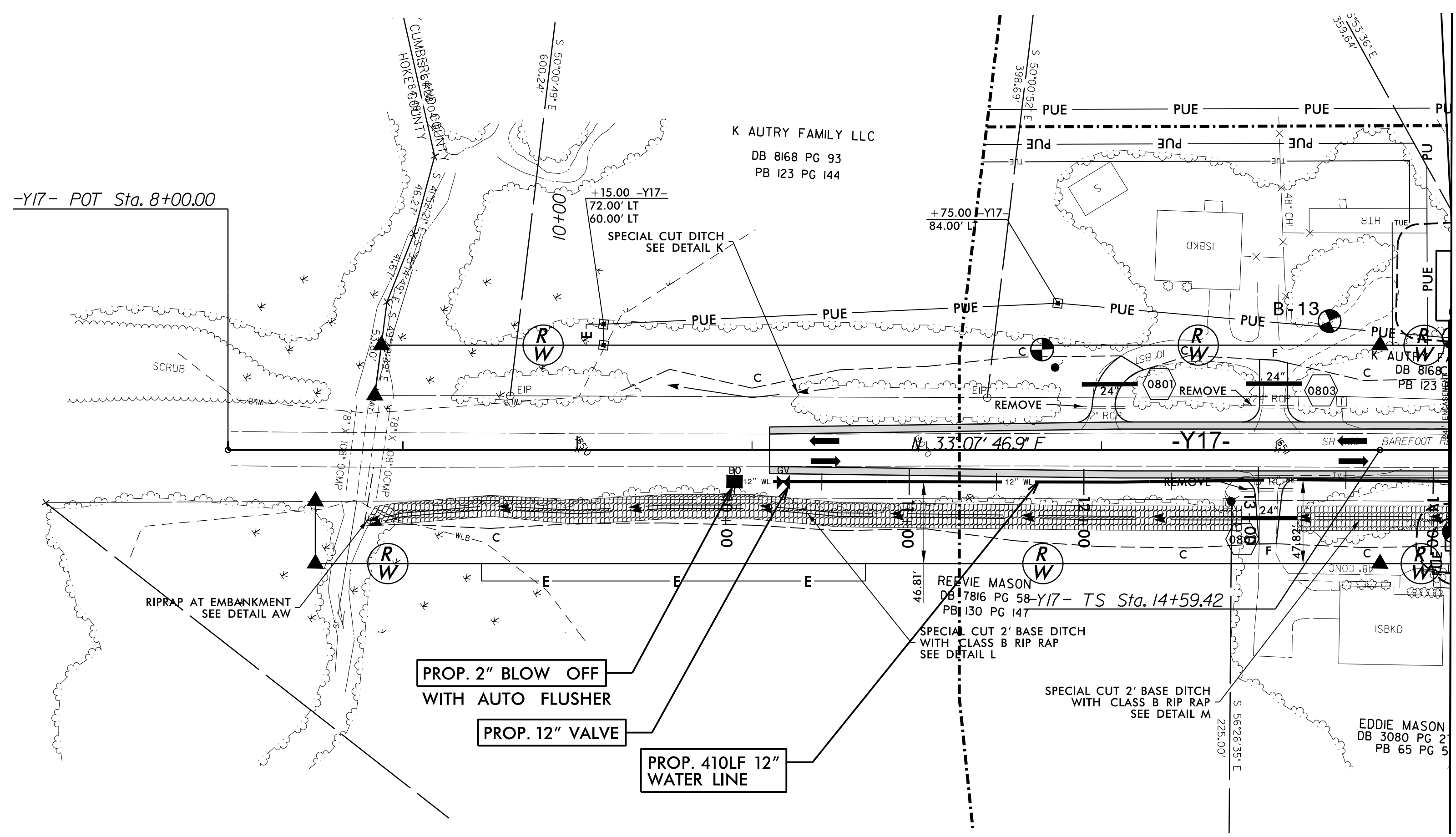


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| PROJECT REFERENCE NO. | SHEET NO. |
| U-2519BB | UC-06 |
| DESIGNED BY: DJ | |
| DRAWN BY: DJ | |
| CHECKED BY: TR | |
| APPROVED BY: TR | |
| REVISED: | 3/24/2022 |
| NORTH CAROLINA DEPARTMENT OF TRANSPORTATION | |
| UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151 | UTILITY CONSTRUCTION PLANS ONLY |

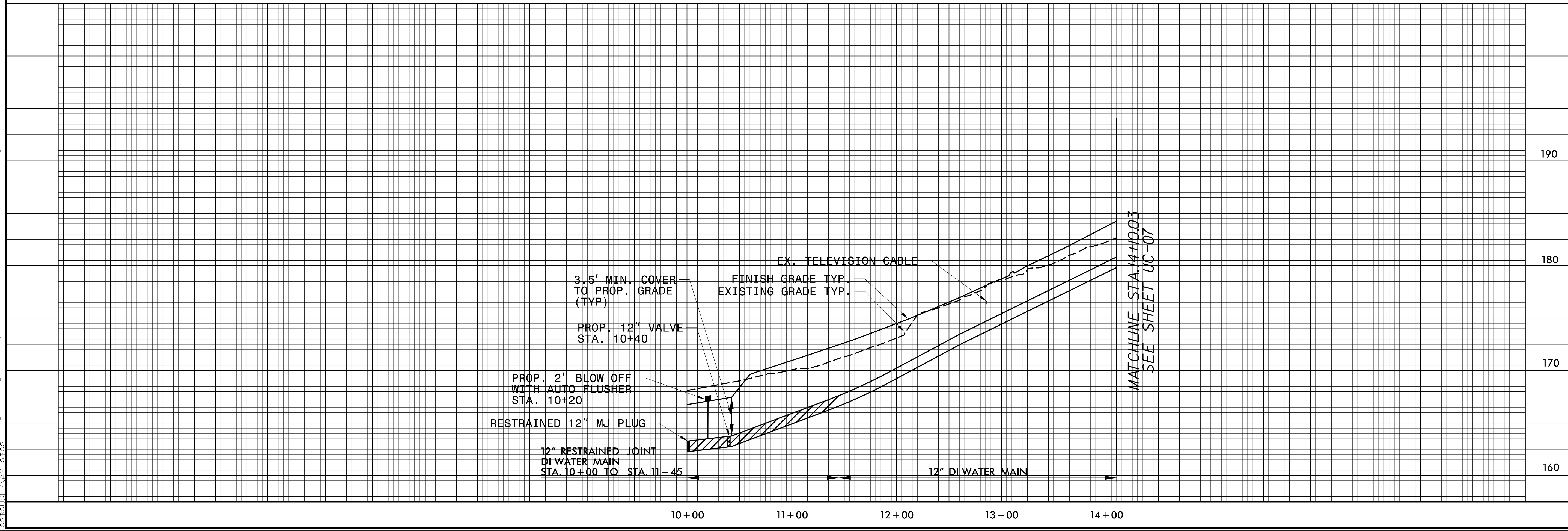


UTILITY CONSTRUCTION

NOTE:
THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 500 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.



MATCHLINE SHEET RDY9 / UC-07
-Y17- RDY STA. 15+00.00 UC STA. 14+10.03



MATCHLINE STA. 14+10.03
SEE SHEET UC-07

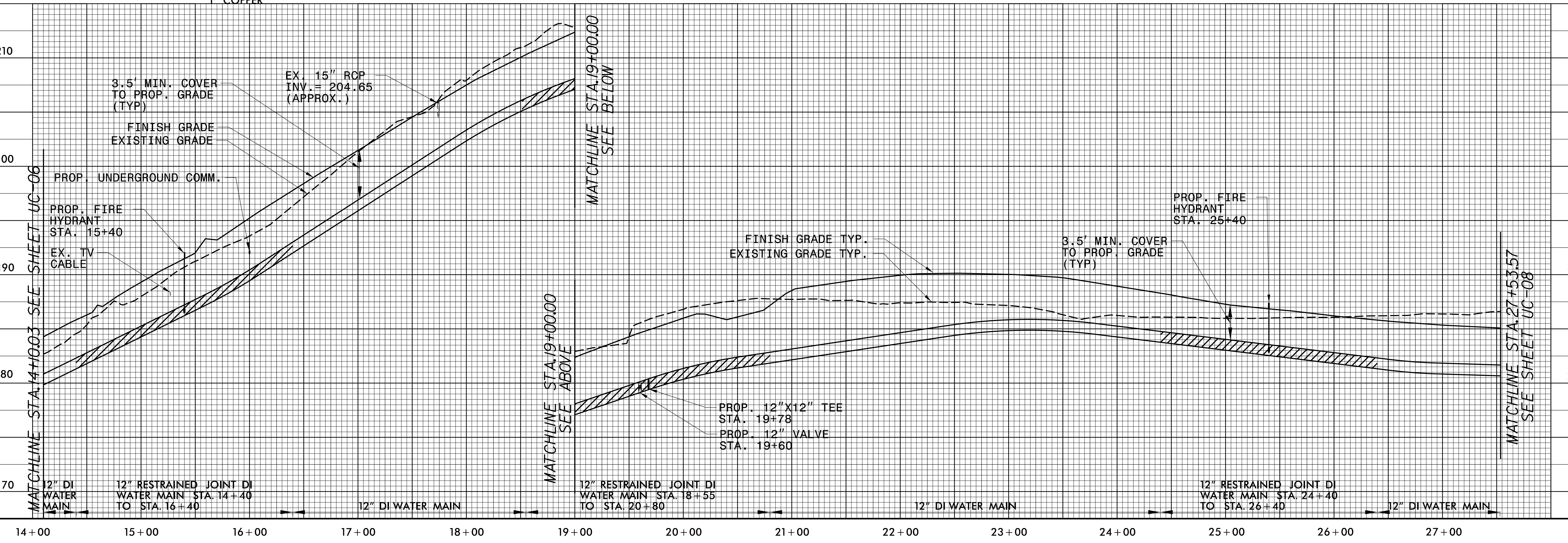
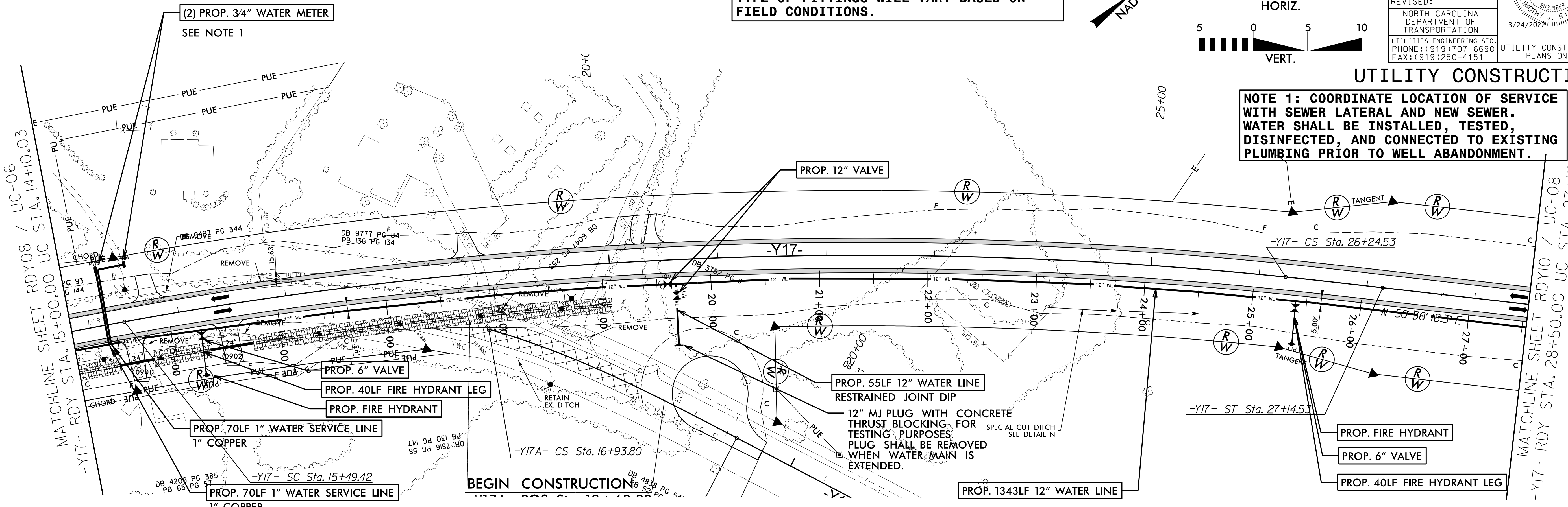
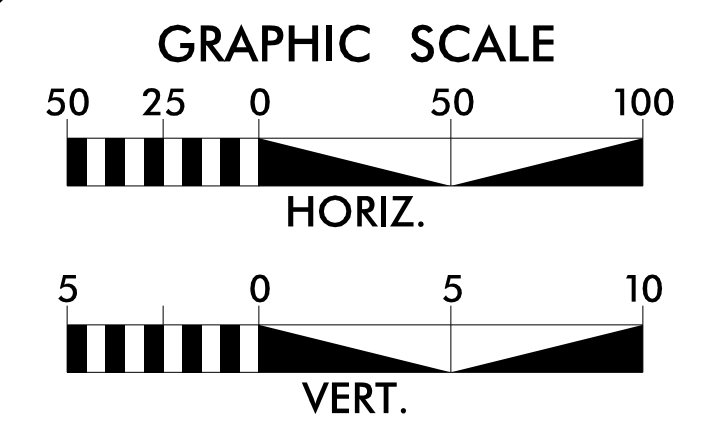
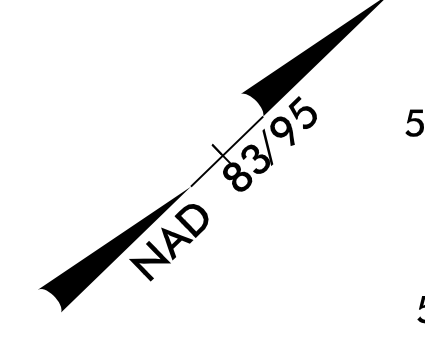
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jritacco

5/14/22

Dewberry

| | |
|---|--------------------|
| PROJECT REFERENCE NO. U-2519BB | SHEET NO. UC-07 |
| DESIGNED BY: DJ | |
| DRAWN BY: DJ | |
| CHECKED BY: TR | |
| APPROVED BY: TR | |
| REVISED: | |
| NORTH CAROLINA DEPARTMENT OF TRANSPORTATION | |
| UTILITY CONSTRUCTION PLANS ONLY | |

NOTE:
THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 900 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

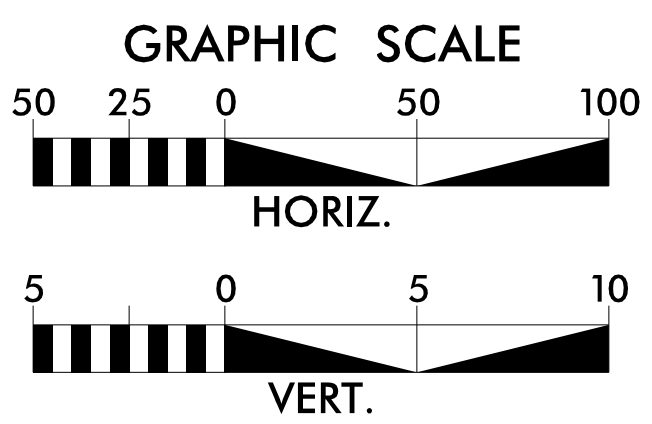
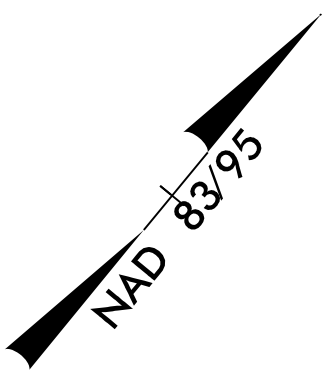


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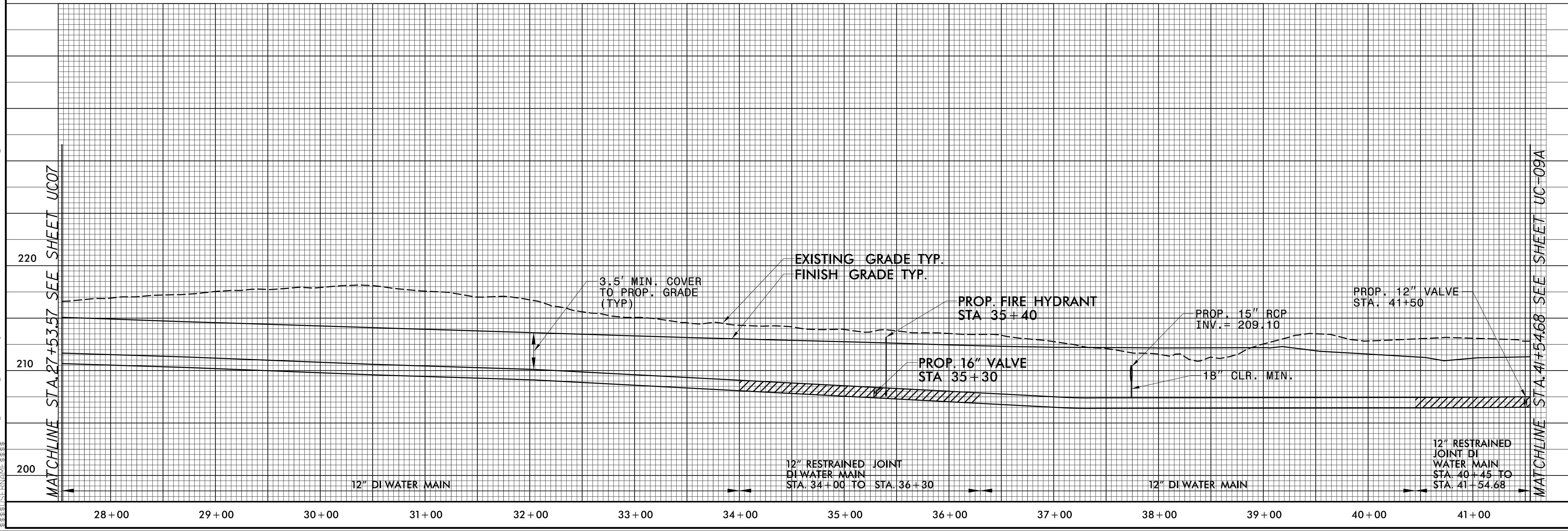
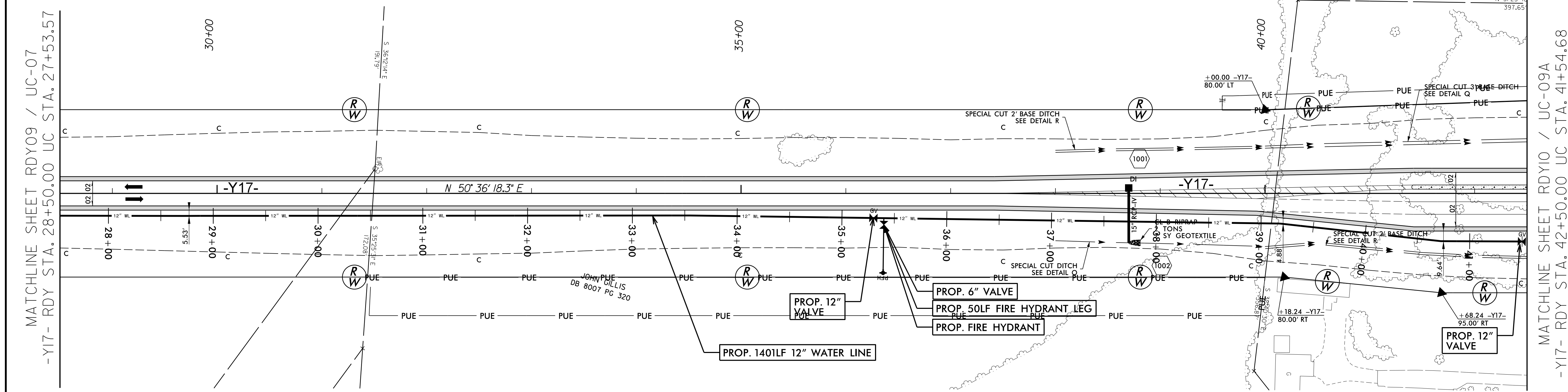


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| PROJECT REFERENCE NO. U-2519BB | SHEET NO. UC-08 |
| DESIGNED BY: DJ | |
| DRAWN BY: DJ | |
| CHECKED BY: TR | |
| APPROVED BY: TR | |
| REVISED: | DATE: 3/24/2022 |
| NORTH CAROLINA DEPARTMENT OF TRANSPORTATION | |
| UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151 | UTILITY CONSTRUCTION PLANS ONLY |

NOTE:
THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 500 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.



UTILITY CONSTRUCTION

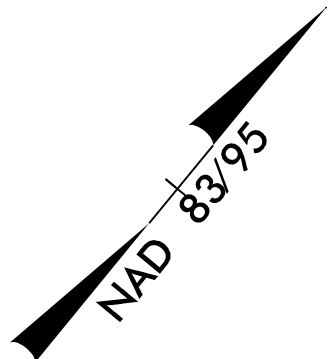


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 MATCHLINE STA. 27+53.57 SEE SHEET UC07

MATCHLINE STA. 41+54.68 SEE SHEET UC-09A

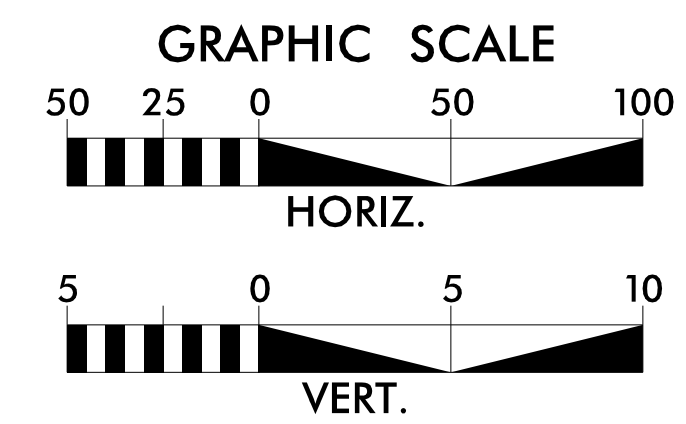
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NOTE:
THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 1900 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

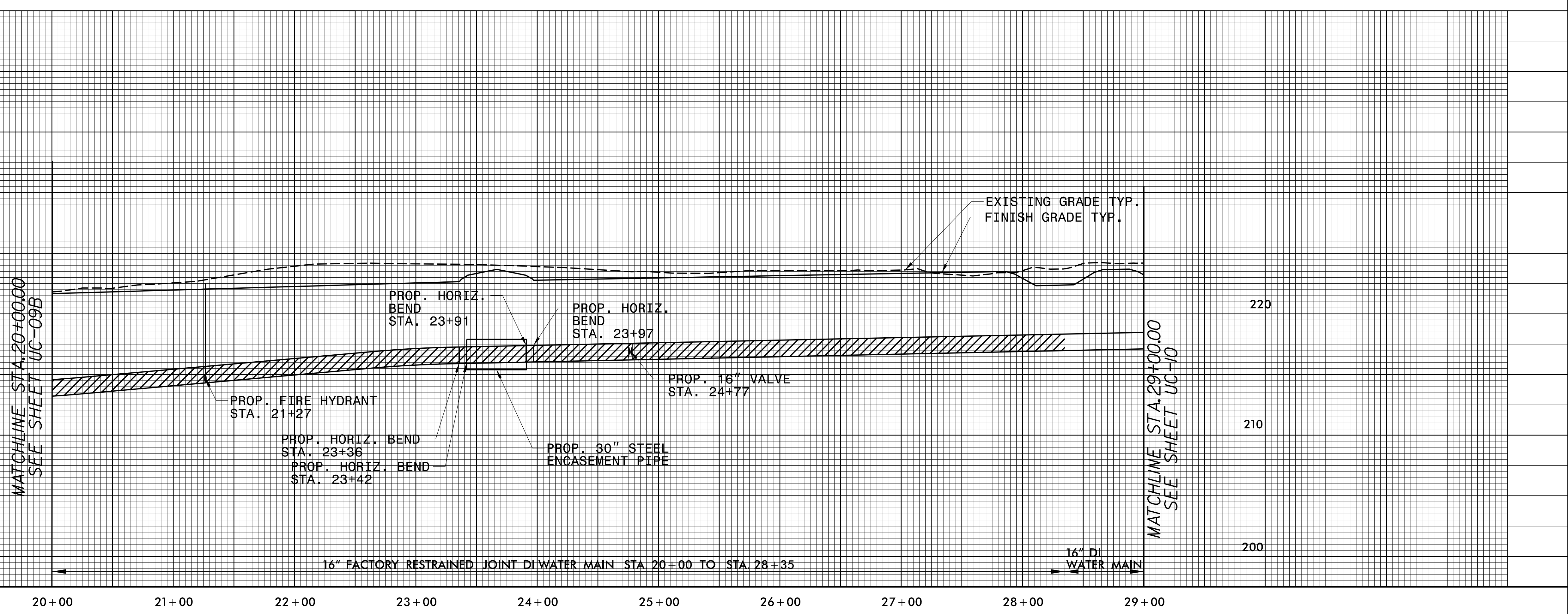
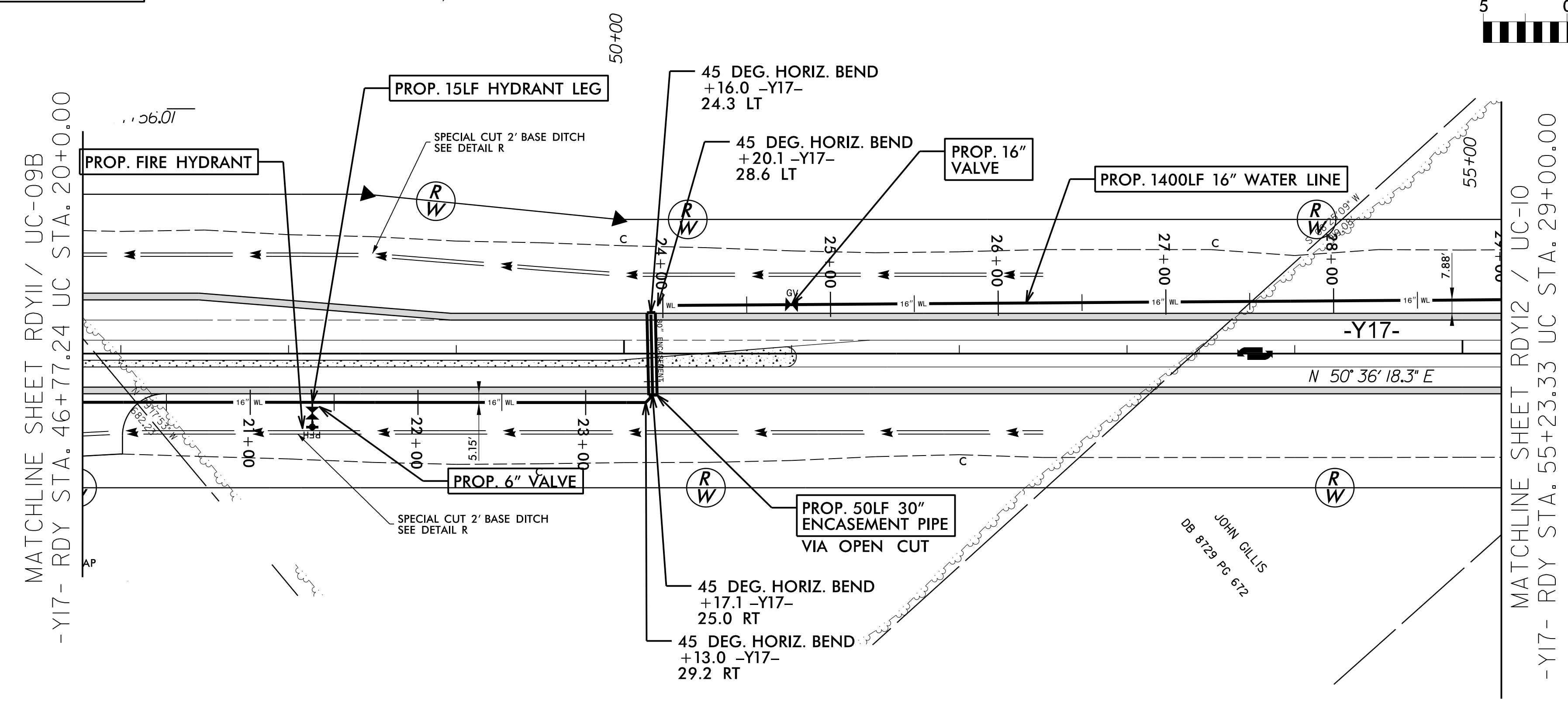


2505 WOODCREEK ROAD
SUITE 110
RALEIGH, NC 27607
PHONE: 919.881.8889
NC CCA No. F4602

| | |
|--|---------------------------------|
| PROJECT REFERENCE NO. U-2519BB | SHEET NO. UC-09 |
| DESIGNED BY: DJ | |
| DRAWN BY: DJ | |
| CHECKED BY: TR | |
| APPROVED BY: TR | |
| REVISED: | |
| NORTH CAROLINA DEPARTMENT OF TRANSPORTATION | |
| UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151 | UTILITY CONSTRUCTION PLANS ONLY |



UTILITY CONSTRUCTION

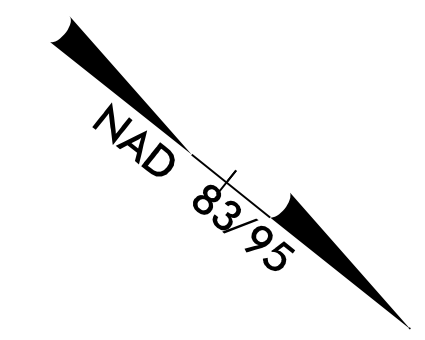
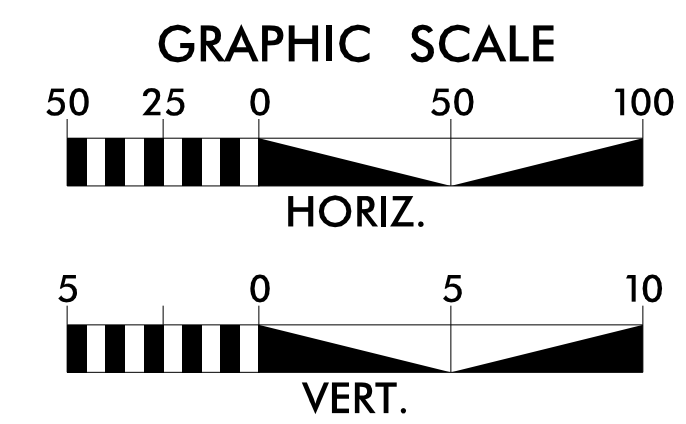


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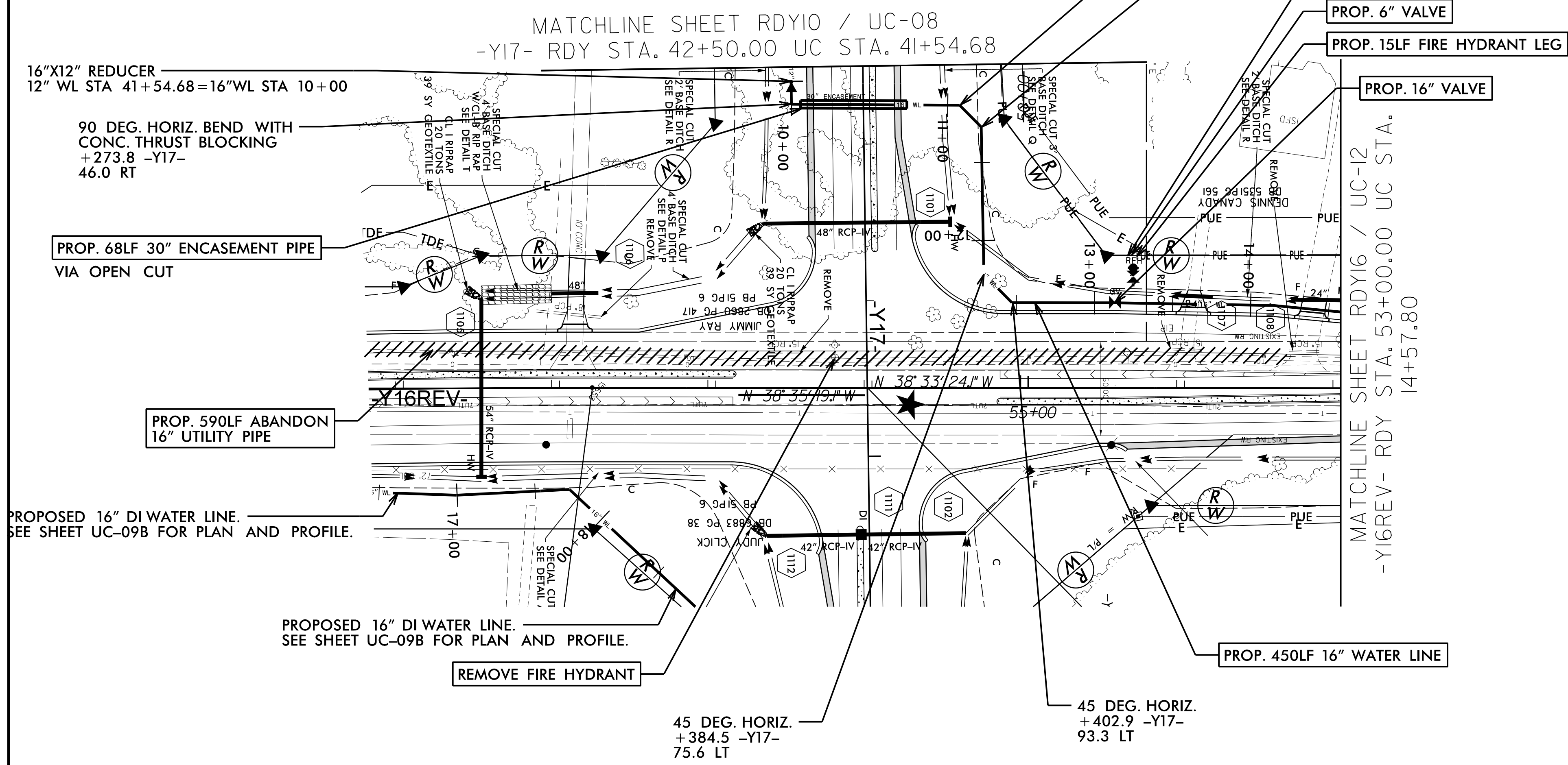


225 W. COLLETT ROAD
SUITE 110
RALEIGH, NC 27601
PHONE: 919.891.8899
NC COLA NO. F4802

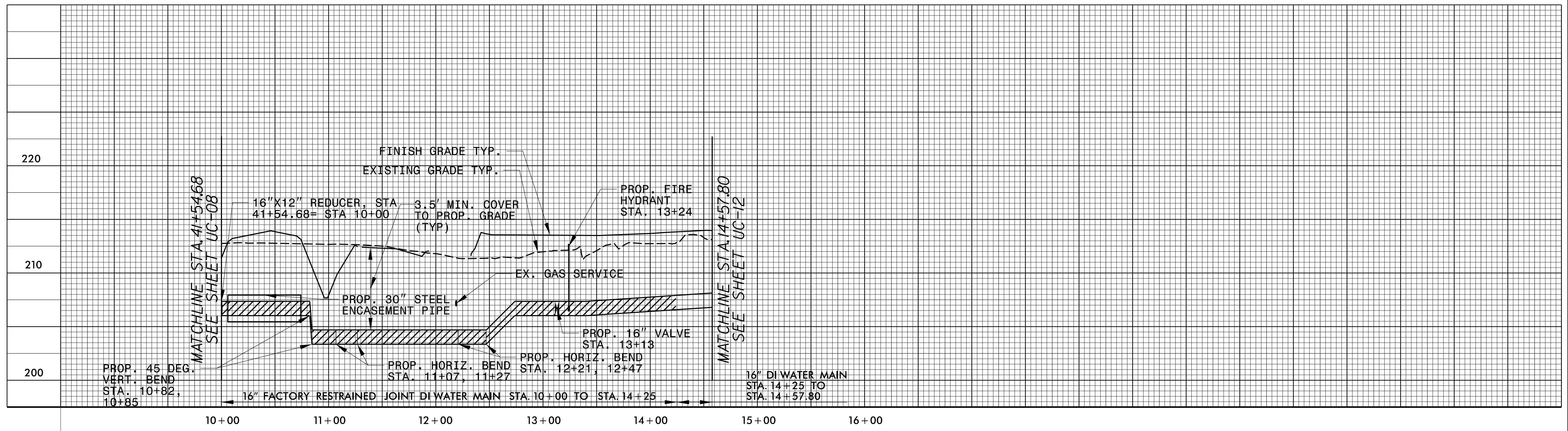
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| PROJECT REFERENCE NO. <i>U-2519BB</i> | SHEET NO. <i>UC-09A</i> |
| DESIGNED BY: DJ | |
| DRAWN BY: DJ | |
| CHECKED BY: TR | |
| APPROVED BY: TR | |
| REVISED: | 3/24/2022 |
| NORTH CAROLINA DEPARTMENT OF TRANSPORTATION | UTILITY CONSTRUCTION PLANS ONLY |
| UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151 | |



UTILITY CONSTRUCTION



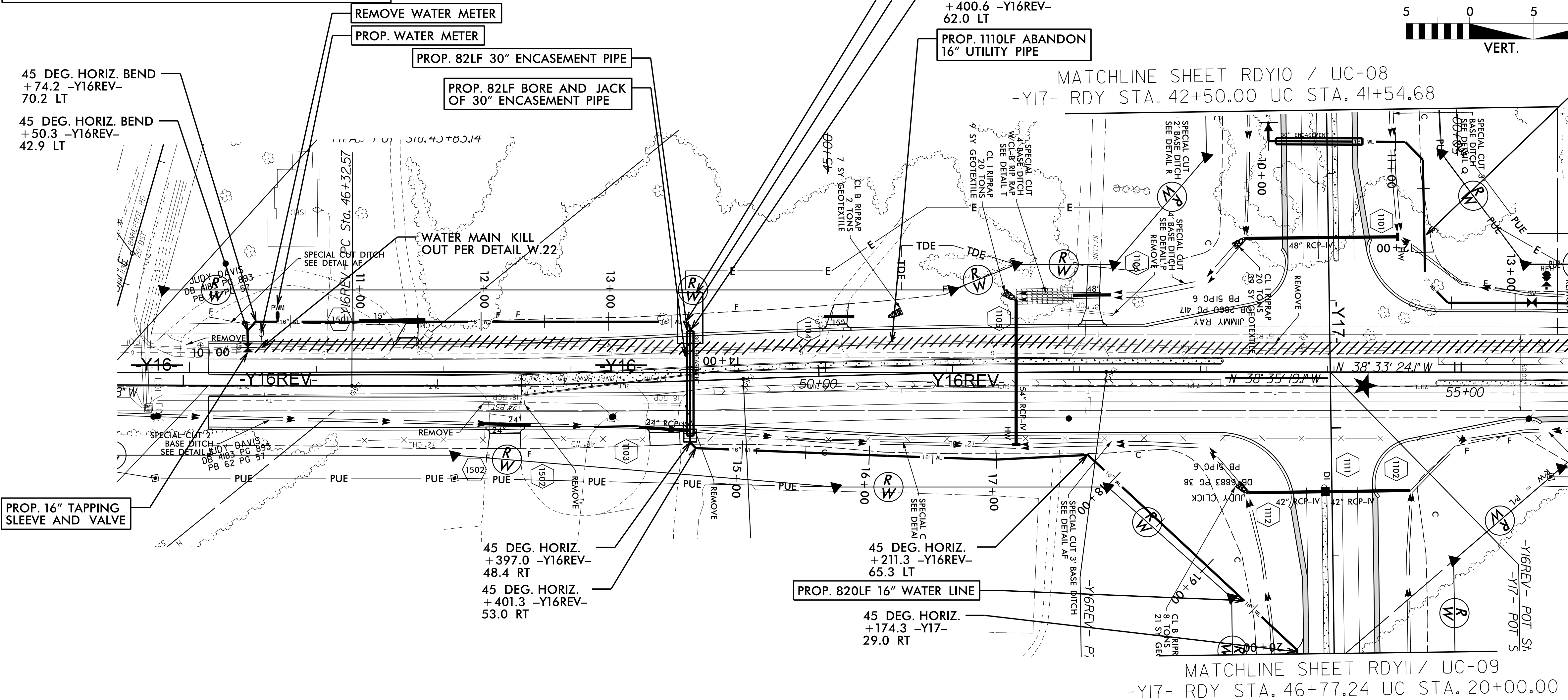
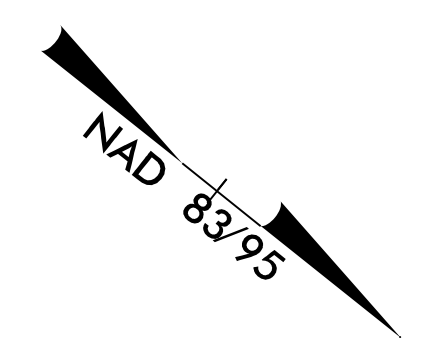
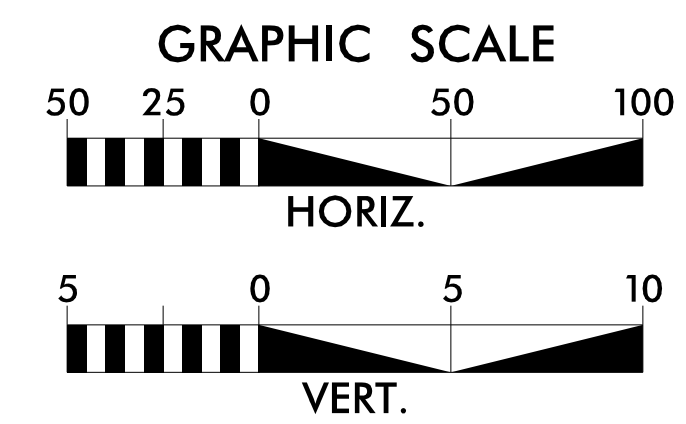
NOTE:
THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 3100 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.



NOTE:
THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 3600 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.



| | |
|--|---------------------------------|
| PROJECT REFERENCE NO. U-2519BB | SHEET NO. UC-09B |
| DESIGNED BY: DJ | |
| DRAWN BY: DJ | |
| CHECKED BY: TR | |
| APPROVED BY: TR | |
| REVISED: | 3/24/2022 |
| UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151 | UTILITY CONSTRUCTION PLANS ONLY |

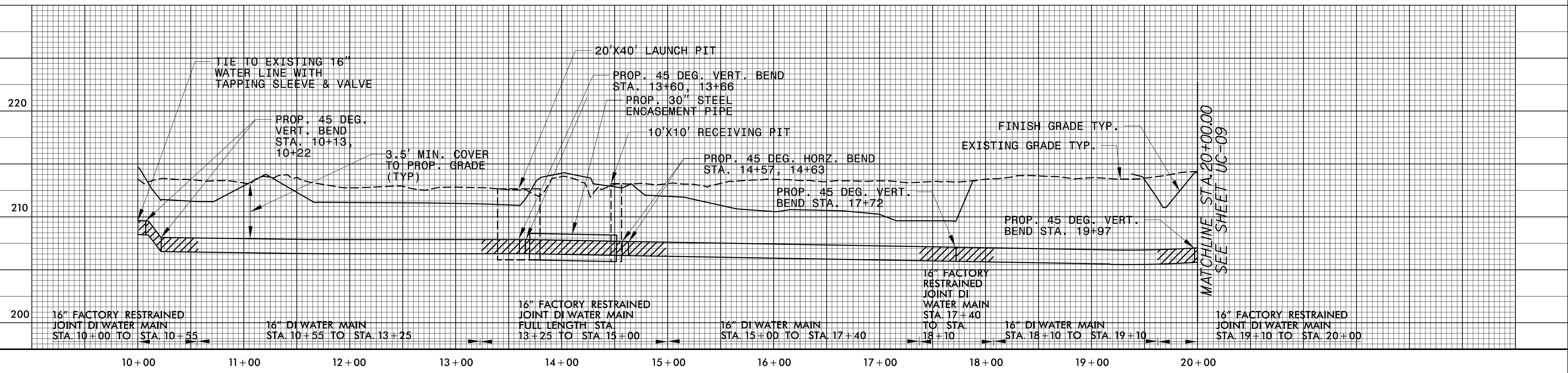


UTILITY CONSTRUCTION

PROPOSED 16" DI WATER LINE.
SEE SHEET UC-09A FOR PROFILE.

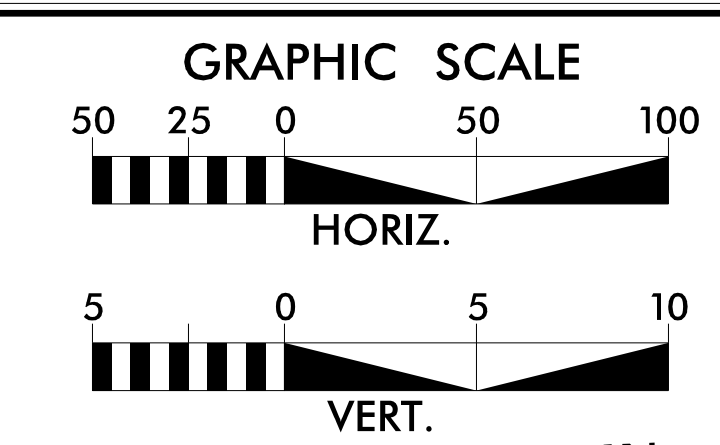
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-Y17- RDY STA. 42+50.00 UC STA. 41+54.68

MATCHLINE SHEET RDYII / UC-09
-Y17- RDY STA. 46+77.24 UC STA. 20+00.00



5/14/2022
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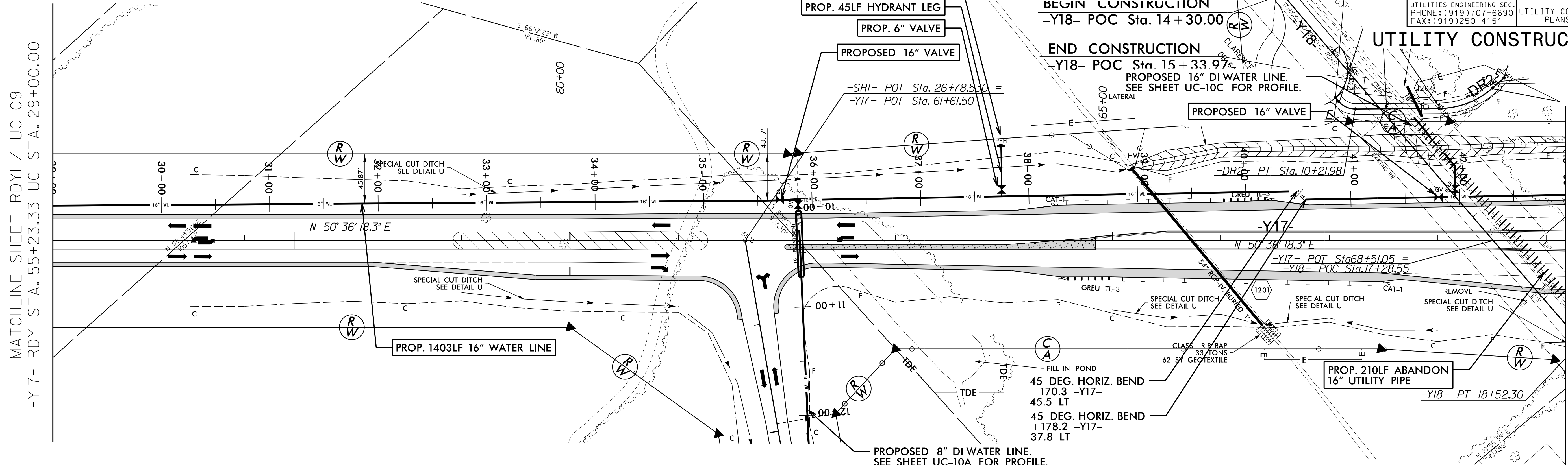
NOTE:
 THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 1900 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.



| PROJECT REFERENCE NO. | SHEET NO. |
|---|-----------|
| U-2519BB | UC-10 |
| DESIGNED BY: DJ | |
| DRAWN BY: DJ | |
| CHECKED BY: TR | |
| APPROVED BY: TR | |
| REVISED: | 3/24/2022 |
| NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151 | |
| UTILITY CONSTRUCTION PLANS ONLY | |

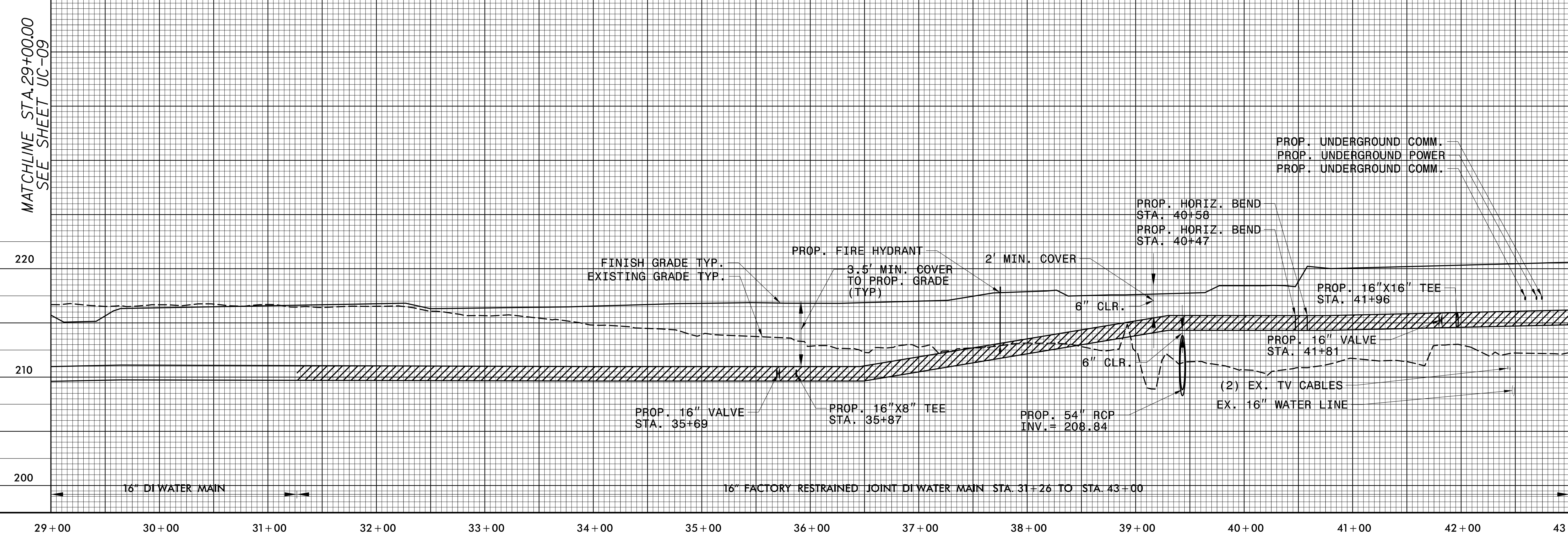
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 -Y17- RDY STA. 55+23.33 UC STA. 29+00.00

MATCHLINE SHEET RDY05 / UC-04A
 -Y17- RDY STA. 69+17.89 UC STA. 43+00.00



MATCHLINE STA. 29+00.00
 SEE SHEET UC-09

MATCHLINE STA. 43+00.00
 SEE SHEET UC-04A



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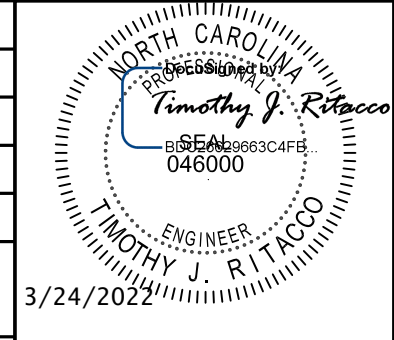


2500 WOLF CREEK ROAD
SUITE 110
RALEIGH, NC 27607
PHONE: 919.899.8899
NC CCA No. 24802

PROJECT REFERENCE NO.
U-2519BB

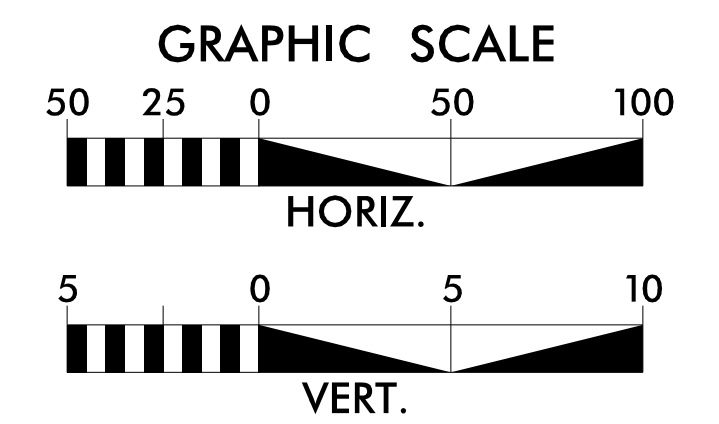
SHEET NO.
UC-10A

DESIGNED BY: DJ
DRAWN BY: DJ
CHECKED BY: TR
APPROVED BY: TR
REVISED:



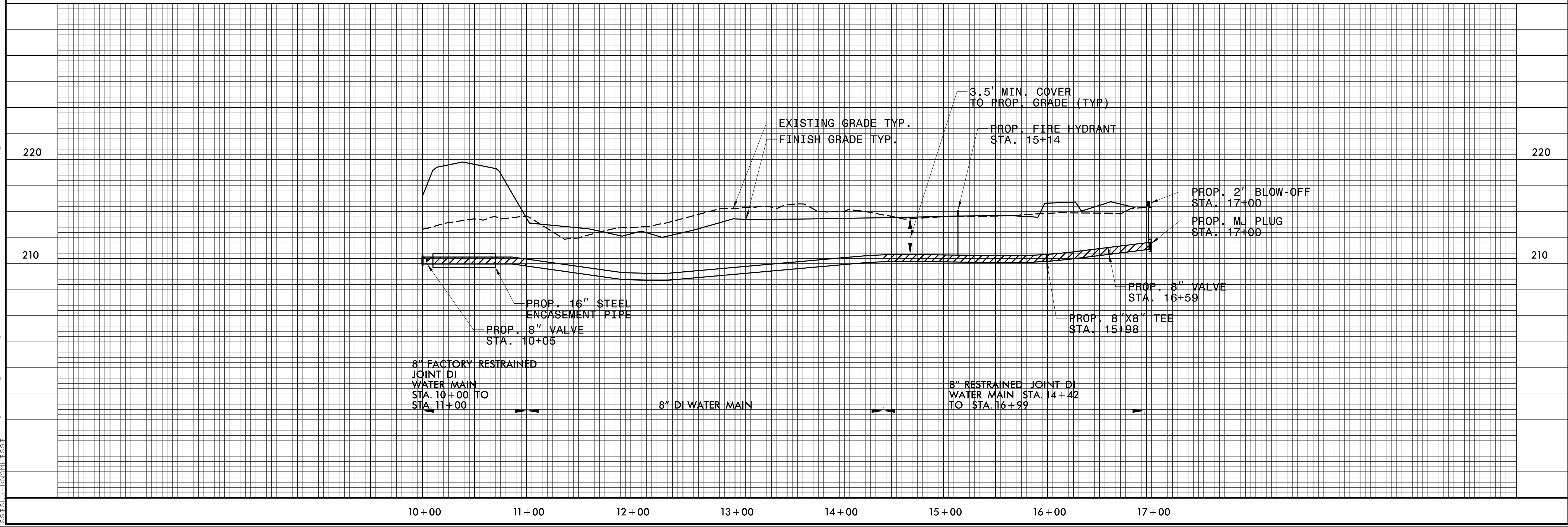
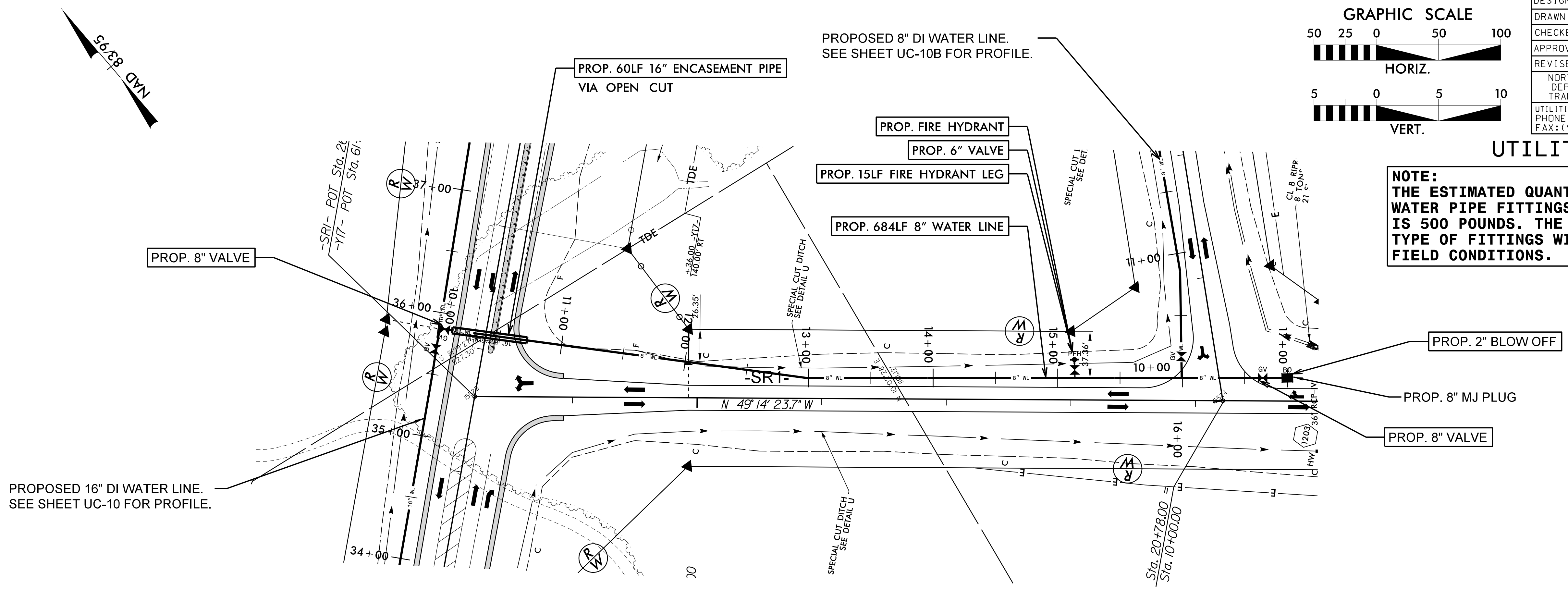
NORTH CAROLINA
DEPARTMENT OF
TRANSPORTATION
UTILITIES ENGINEERING SEC.
PHONE: (919) 707-6690
FAX: (919) 250-4151

UTILITY CONSTRUCTION
PLANS ONLY



UTILITY CONSTRUCTION

NOTE:
THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 500 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.



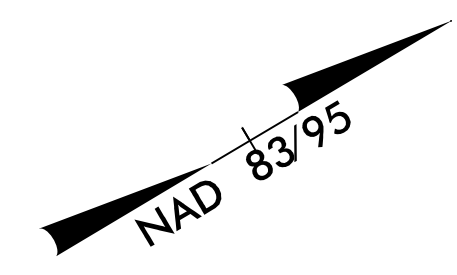
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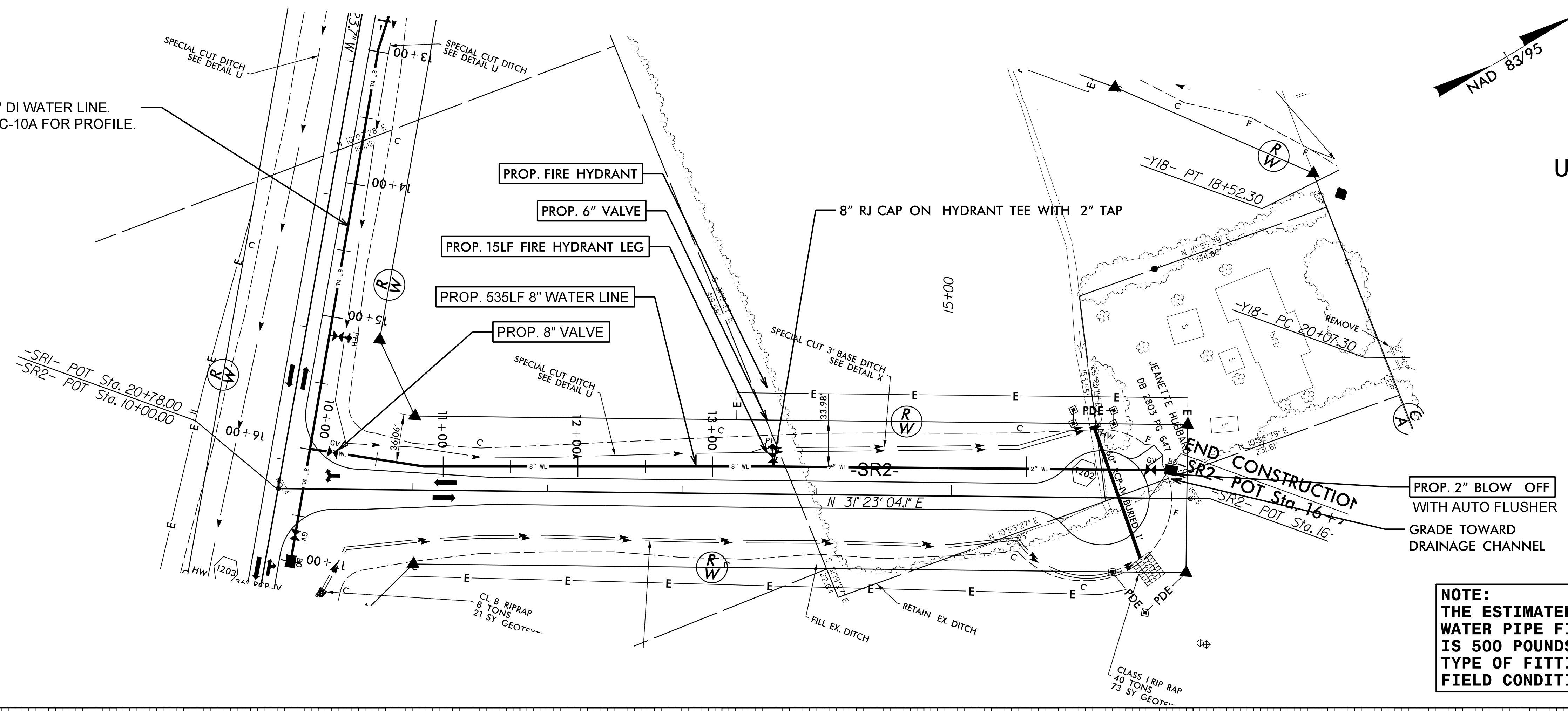


2550 WOODCREEK ROAD
SUITE 110
RALEIGH, NC 27607
PHONE: 919.881.8889
NC COLA No. F-002

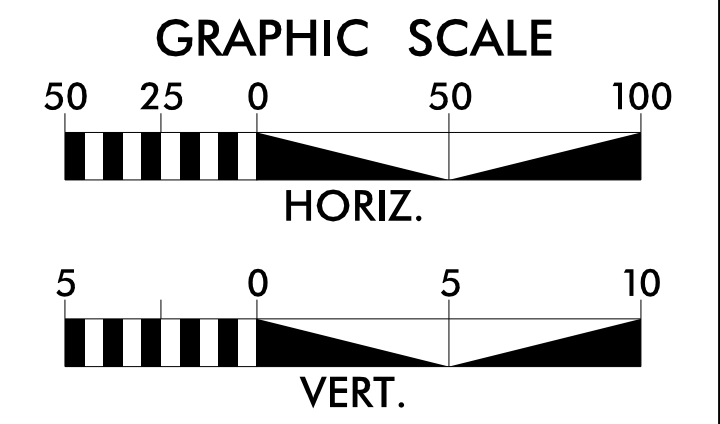
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| PROJECT REFERENCE NO. <i>U-2519BB</i> | SHEET NO. <i>UC-10B</i> |
| DESIGNED BY: DJ | |
| DRAWN BY: DJ | |
| CHECKED BY: TR | |
| APPROVED BY: TR | |
| REVISED: | 3/24/2022 |
| NORTH CAROLINA DEPARTMENT OF TRANSPORTATION | UTILITY CONSTRUCTION PLANS ONLY |
| UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151 | |



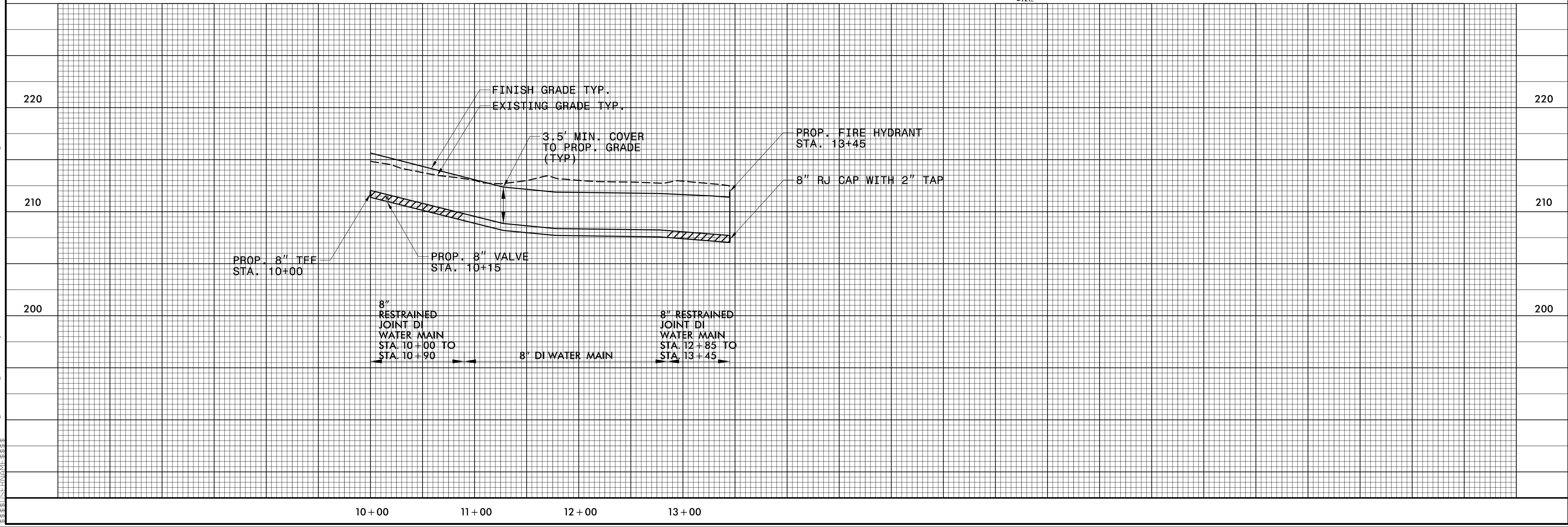
PROPOSED 8" DI WATER LINE.
SEE SHEET UC-10A FOR PROFILE.



UTILITY CONSTRUCTION GRAPHIC SCALE



NOTE:
THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 500 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.



5/14/99

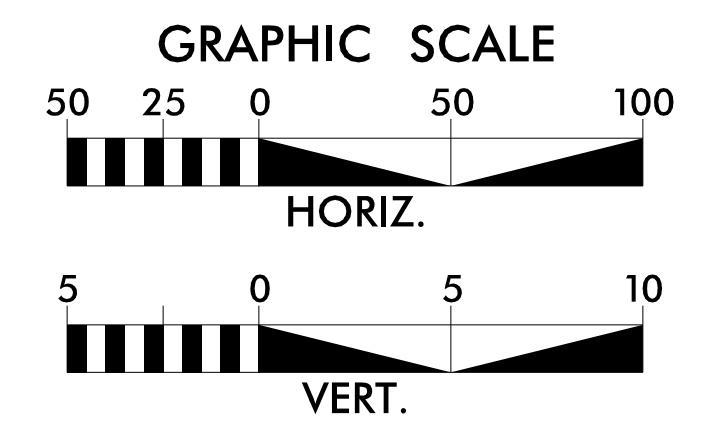
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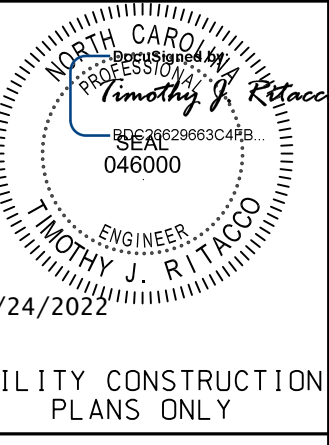
2500 WOODHUFF ROAD
SUITE 110
RALEIGH, NC 27607
PHONE: 919.881.8889
NC CCA No. F4602

PROJECT REFERENCE NO.
U-2519BB

SHEET NO.
UC-10C

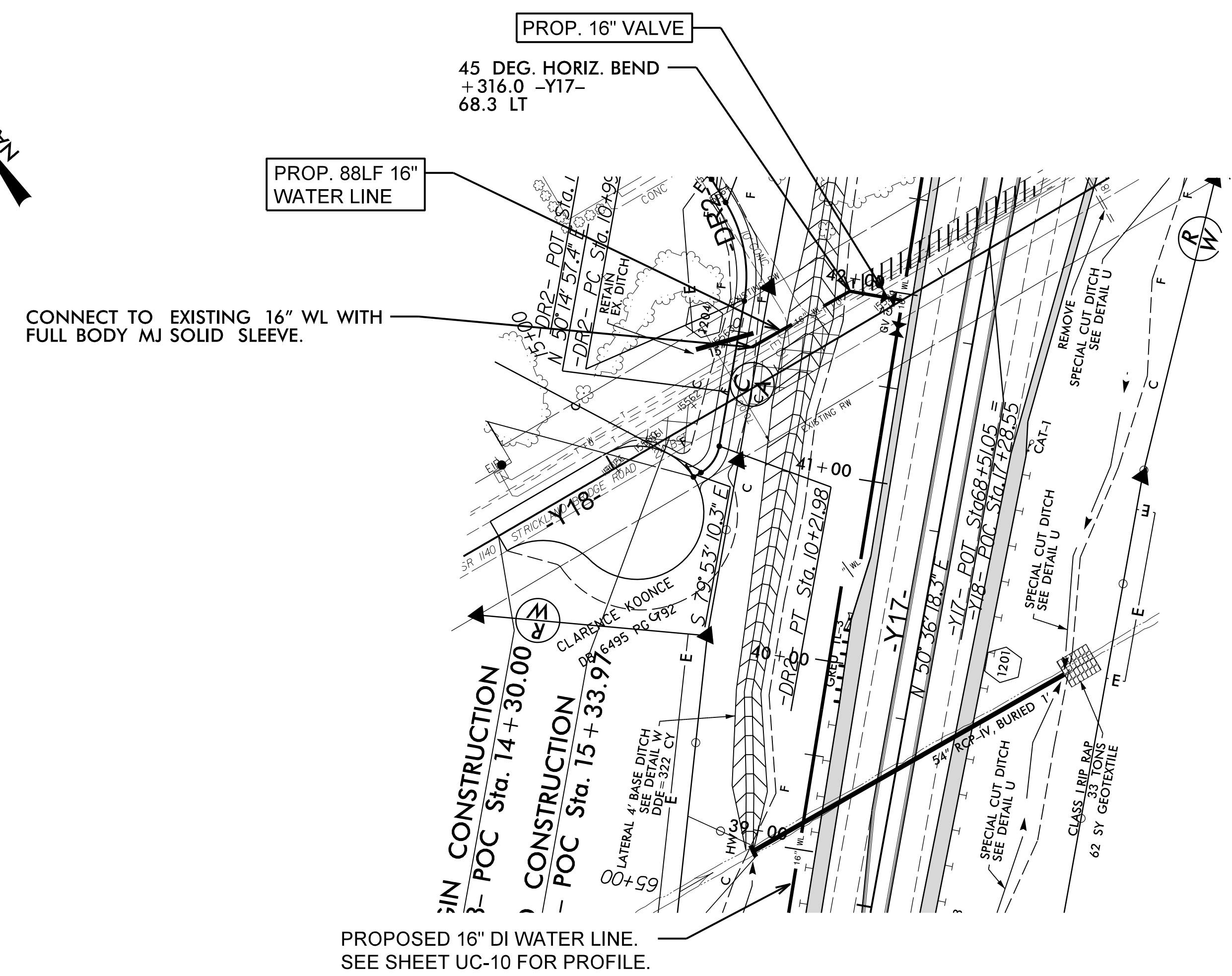
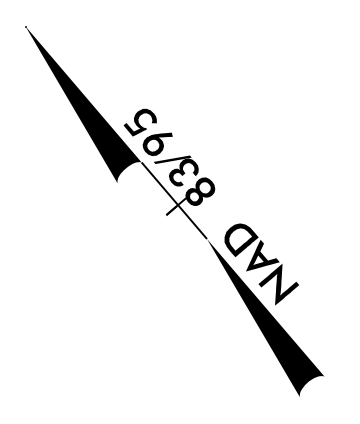


DESIGNED BY: DJ
DRAWN BY: DJ
CHECKED BY: TR
APPROVED BY: TR
REVISED:
NORTH CAROLINA
DEPARTMENT OF
TRANSPORTATION
UTILITIES ENGINEERING SEC.
PHONE: (919) 707-6690
FAX: (919) 250-4151



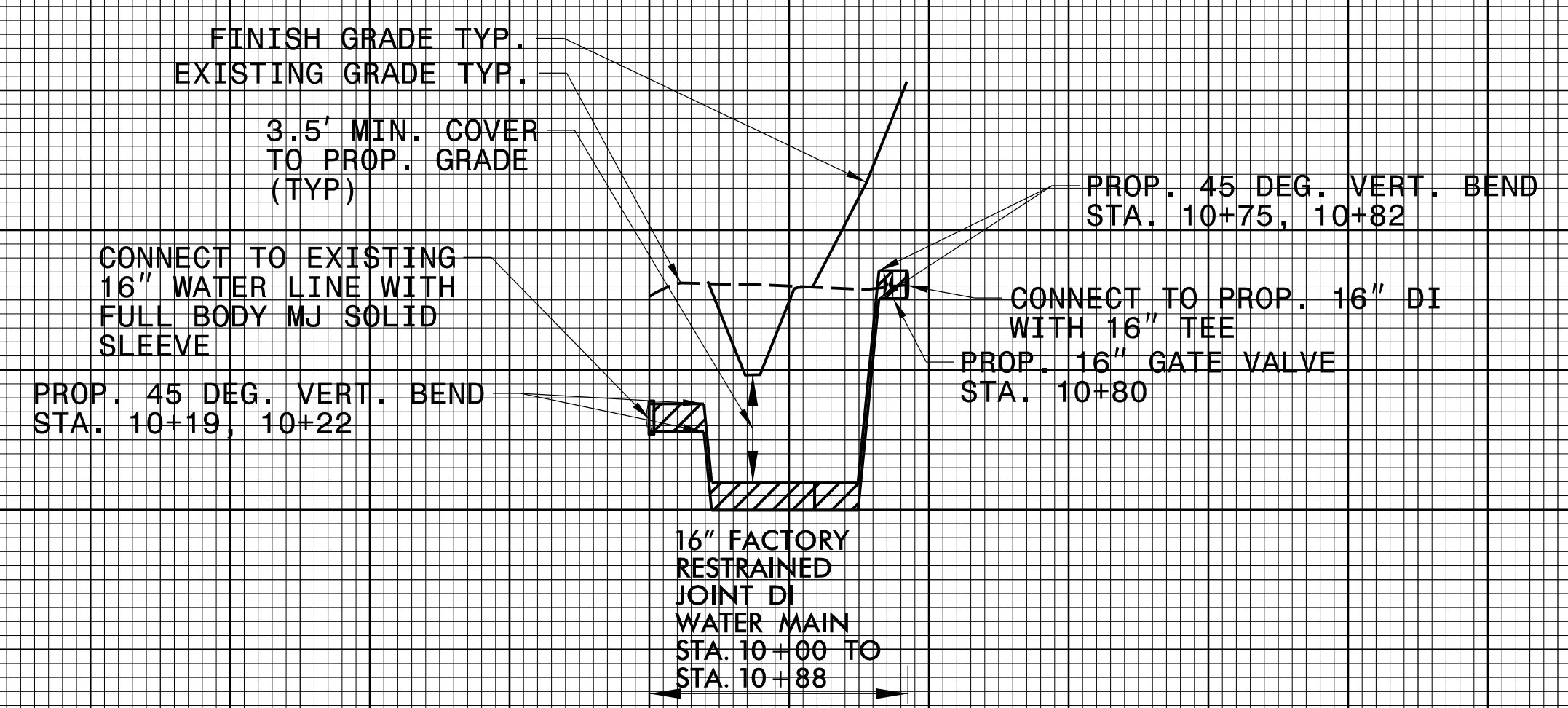
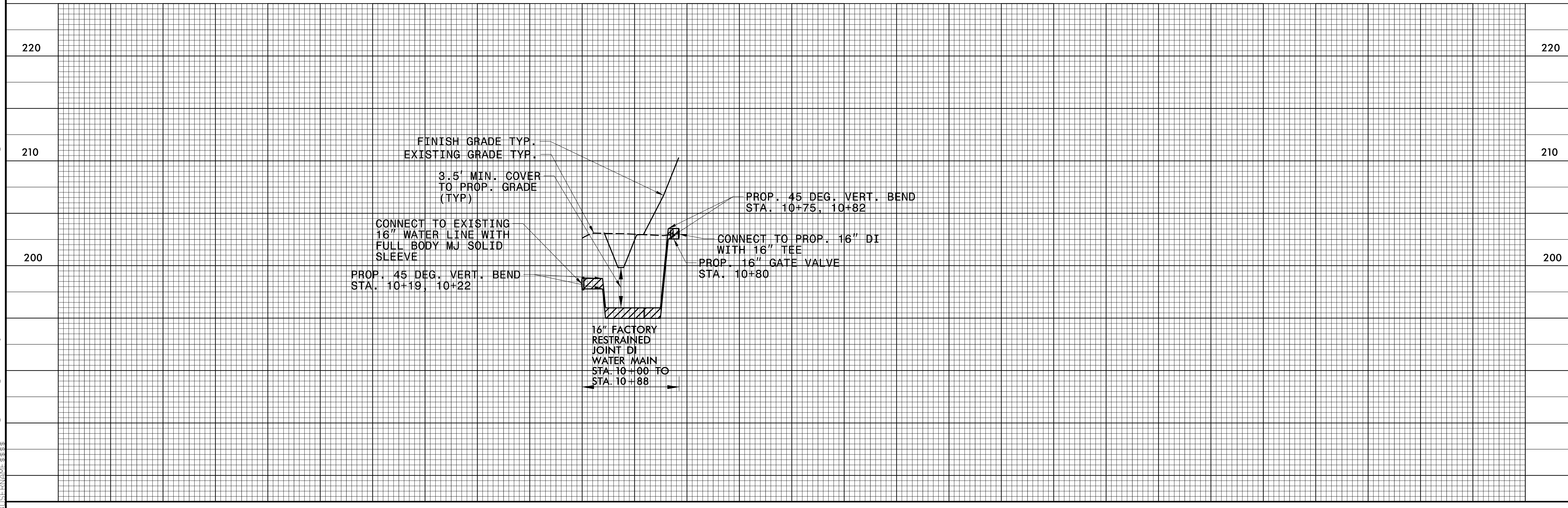
UTILITY CONSTRUCTION

NOTE:
THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 2600 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.



CONNECT TO EXISTING 16" WL WITH FULL BODY MJ SOLID SLEEVE.

PROPOSED 16" DI WATER LINE. SEE SHEET UC-10 FOR PROFILE.



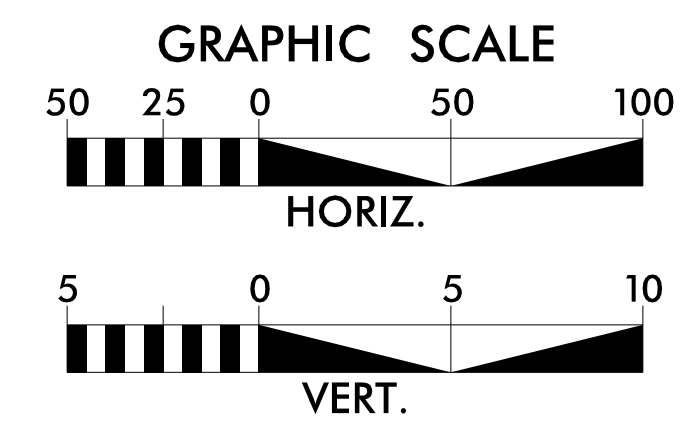
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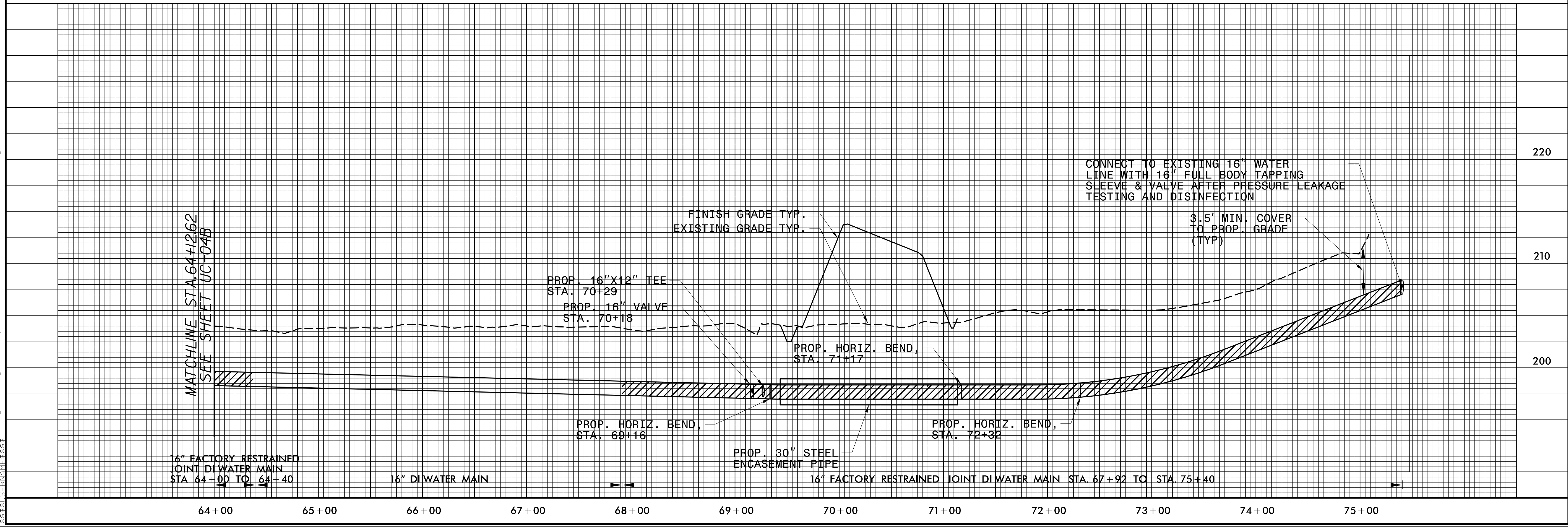
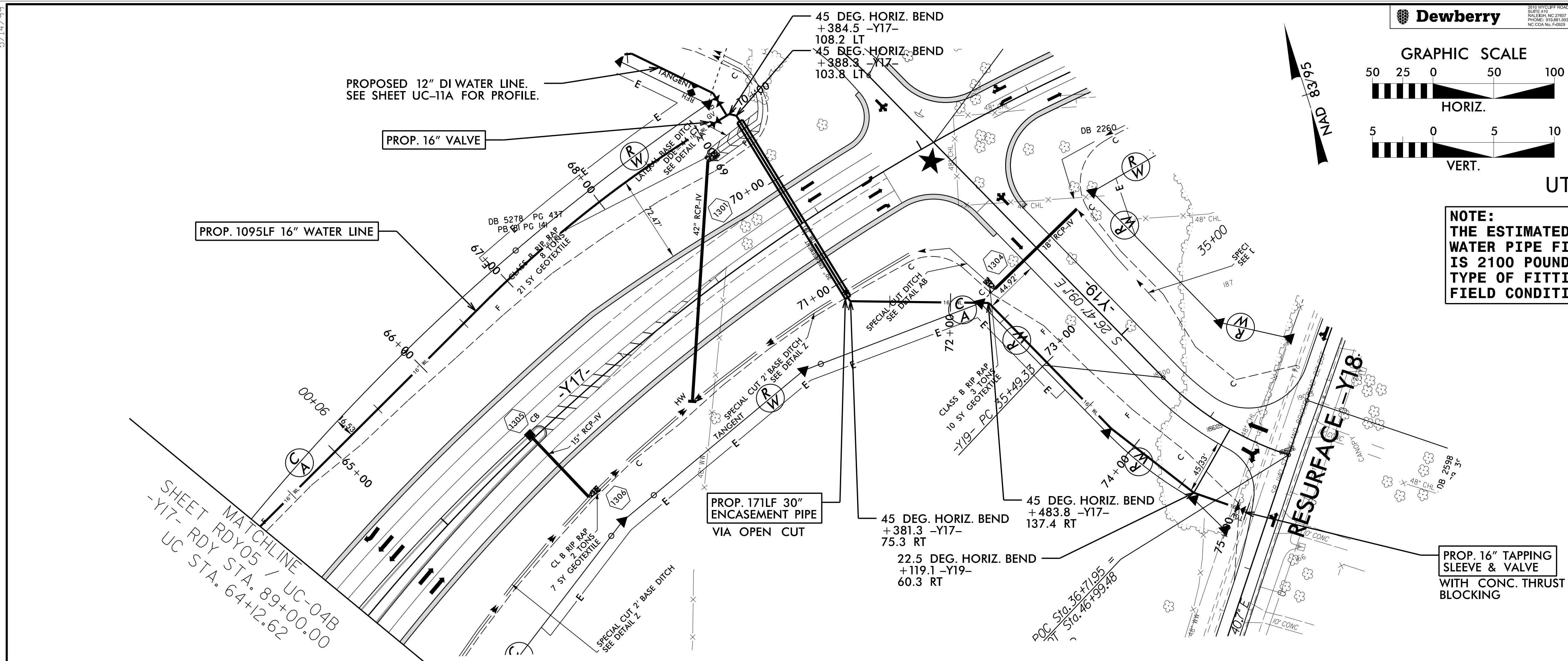
2500 WOLF CREEK ROAD
SUITE 110
RALEIGH, NC 27607
PHONE: 919.881.8889
NC COLA NO. E-0002

| | |
|--|------------------------------------|
| PROJECT REFERENCE NO. U-2519BB | SHEET NO. UC-11 |
| DESIGNED BY: DJ | |
| DRAWN BY: DJ | |
| CHECKED BY: TR | |
| APPROVED BY: TR | |
| REVISED: | |
| NORTH CAROLINA DEPARTMENT OF TRANSPORTATION 3/24/2022 | |
| UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151 | UTILITY CONSTRUCTION PLANS ONLY |



UTILITY CONSTRUCTION

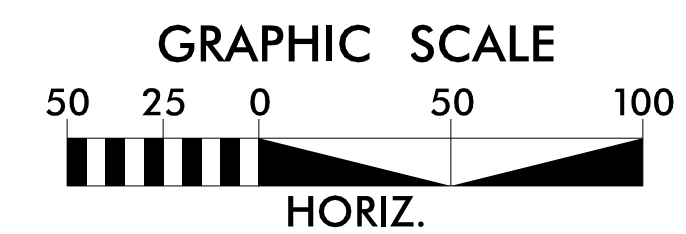
NOTE:
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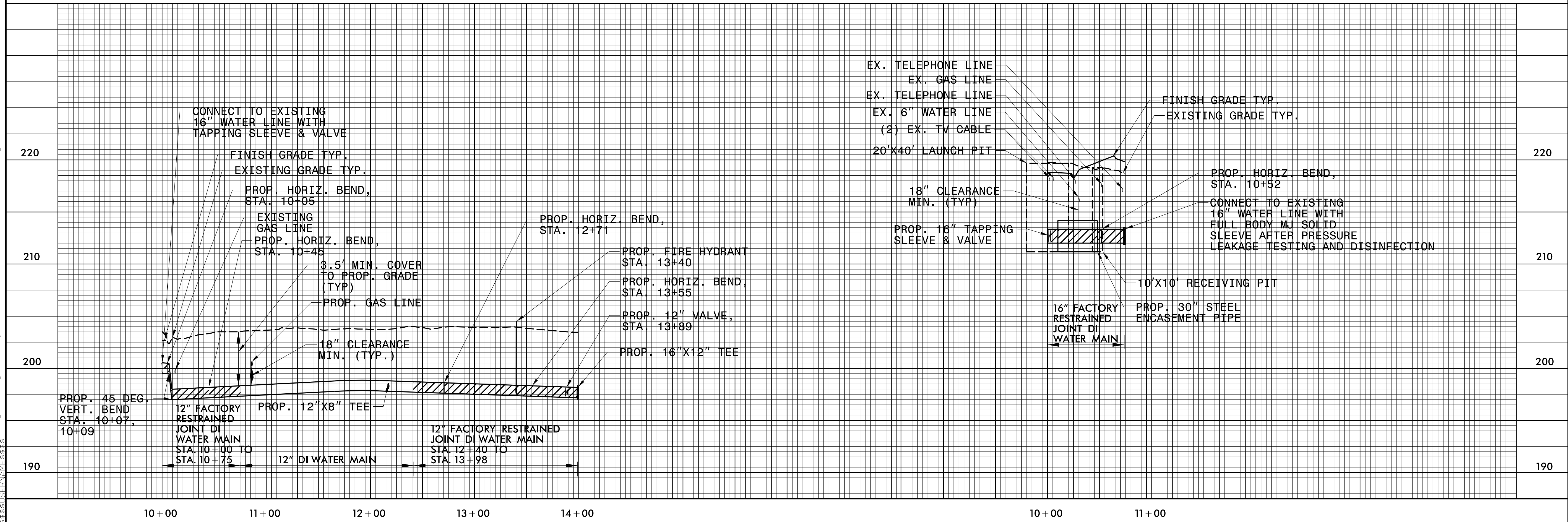
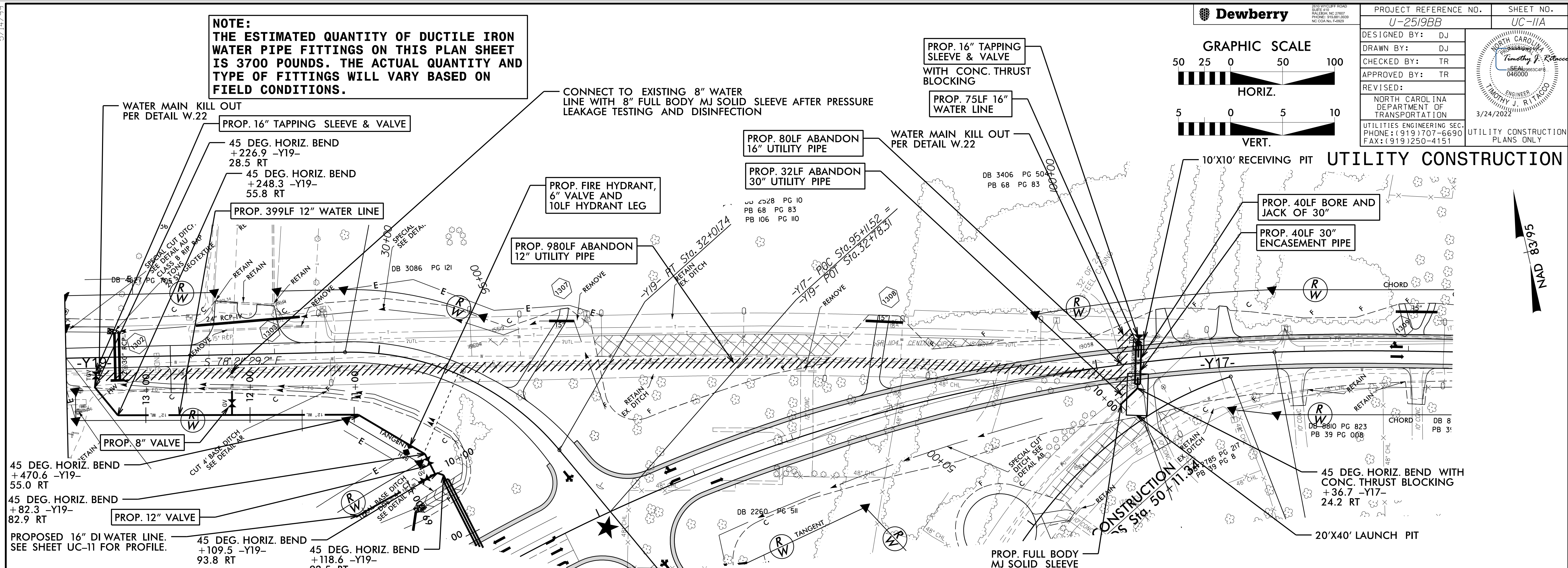
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NOTE:
THE ESTIMATED QUANTITY OF DUCTILE IRON
WATER PIPE FITTINGS ON THIS PLAN SHEET
IS 3700 POUNDS. THE ACTUAL QUANTITY AND
TYPE OF FITTINGS WILL VARY BASED ON
FIELD CONDITIONS.



| PROJECT REFERENCE NO. | | SHEET NO. | |
|--|----|--|--|
| U-2519BB | | UC-11A | |
| DESIGNED BY: | DJ | | |
| DRAWN BY: | DJ | | |
| CHECKED BY: | TR | | |
| APPROVED BY: | TR | | |
| REVISED: | | NORTH CAROLINA DEPARTMENT OF TRANSPORTATION 3/24/2022 | |
| UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151 | | UTILITY CONSTRUCTION PLANS ONLY | |



NAD 83/95

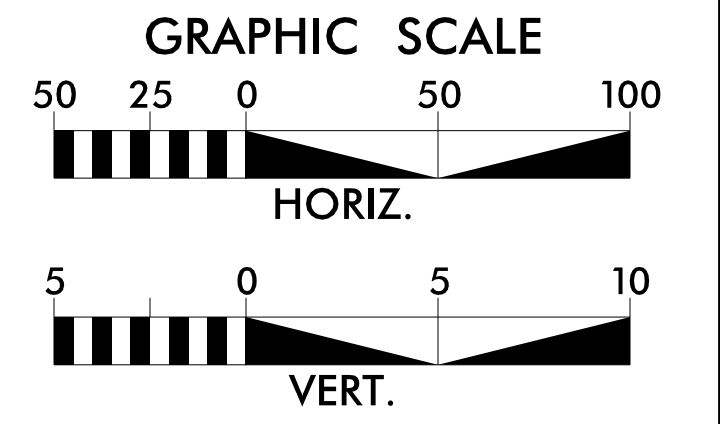
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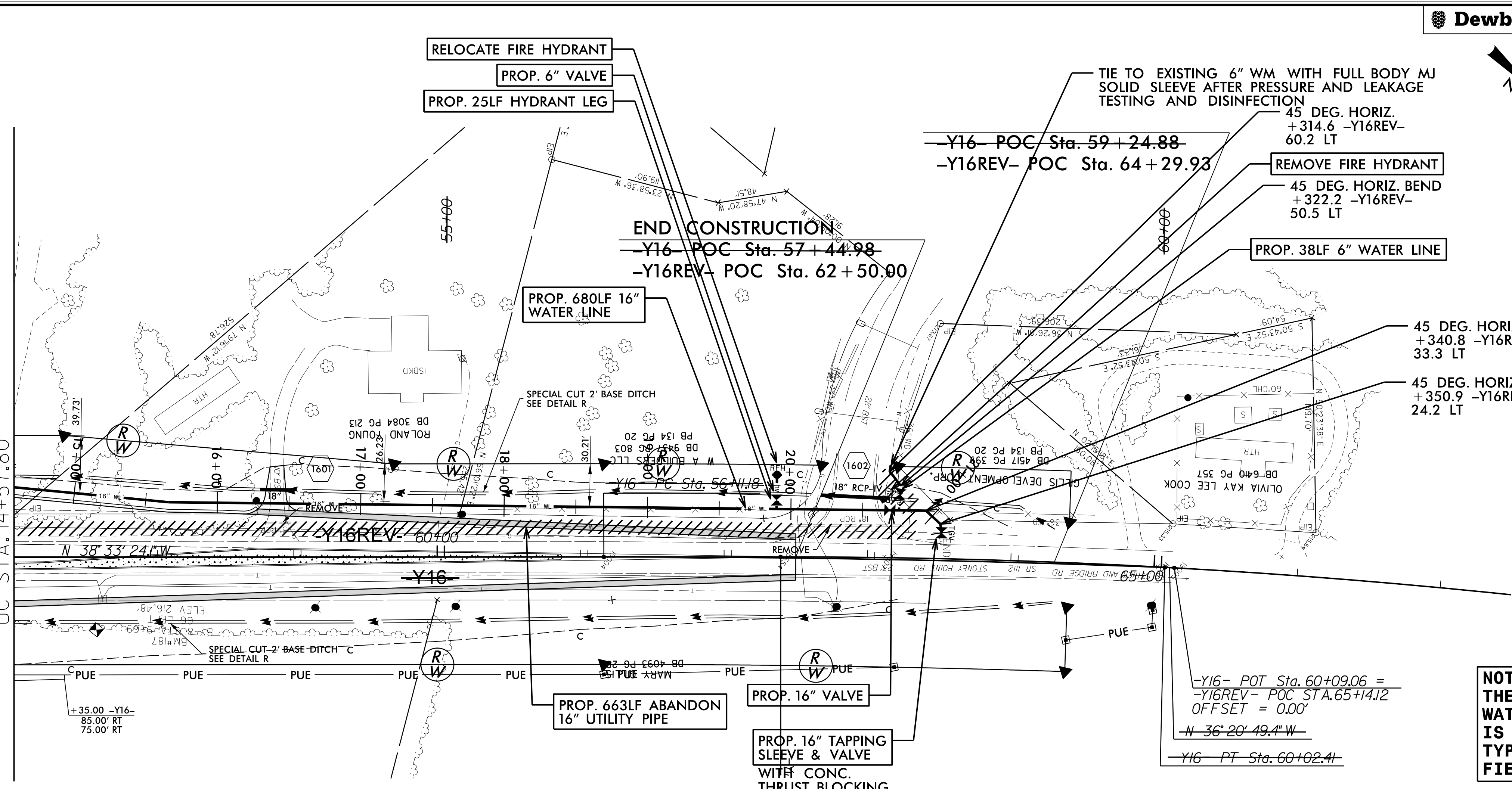
255 W. GIFFORD ROAD
SHELVE, NC 27589
PHONE: 919.891.9899
NC COUNCIL # 42602

| | |
|--|---------------------------------|
| PROJECT REFERENCE NO. | SHEET NO. |
| U-2519BB | UC-12 |
| DESIGNED BY: DJ | |
| DRAWN BY: DJ | |
| CHECKED BY: TR | |
| APPROVED BY: TR | |
| REVISED: | |
| NORTH CAROLINA DEPARTMENT OF TRANSPORTATION | |
| 3/24/2022 | |
| UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151 | UTILITY CONSTRUCTION PLANS ONLY |

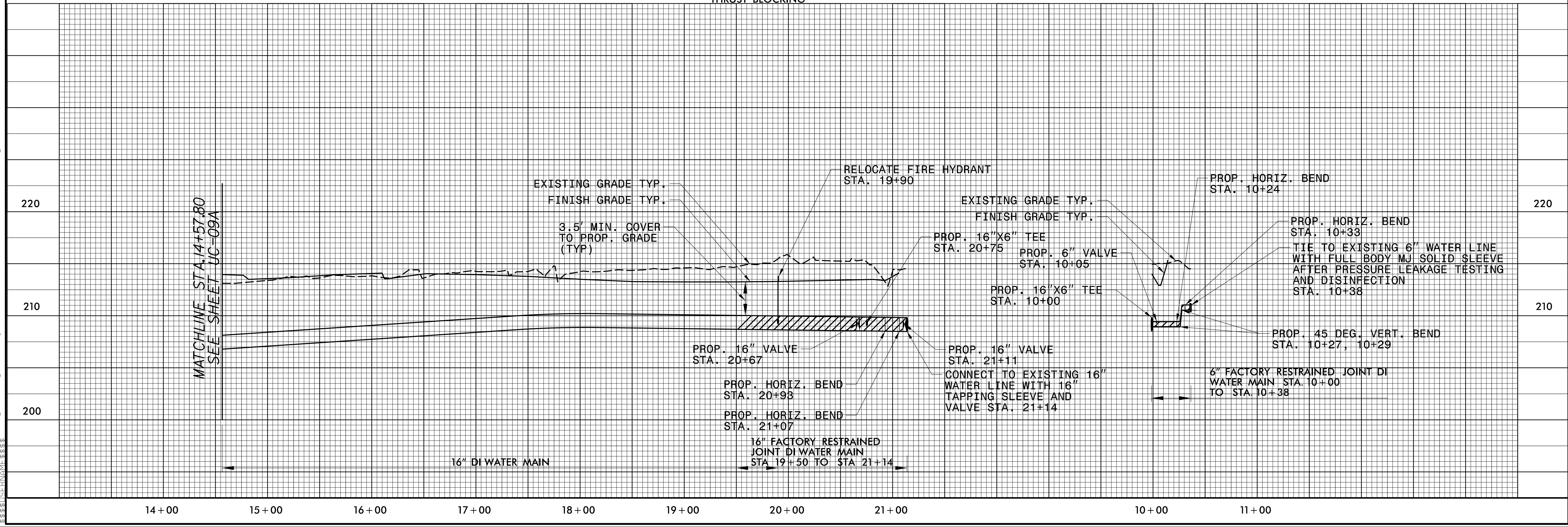
UTILITY CONSTRUCTION



MATCHLINE SHEET RDYII / UC-09A
-Y16- RDY STA. 53+00.00
UC STA. 14+57.80



NOTE:
THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 2200 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.



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 2022-03-14 13:48
 2022-03-14 13:48

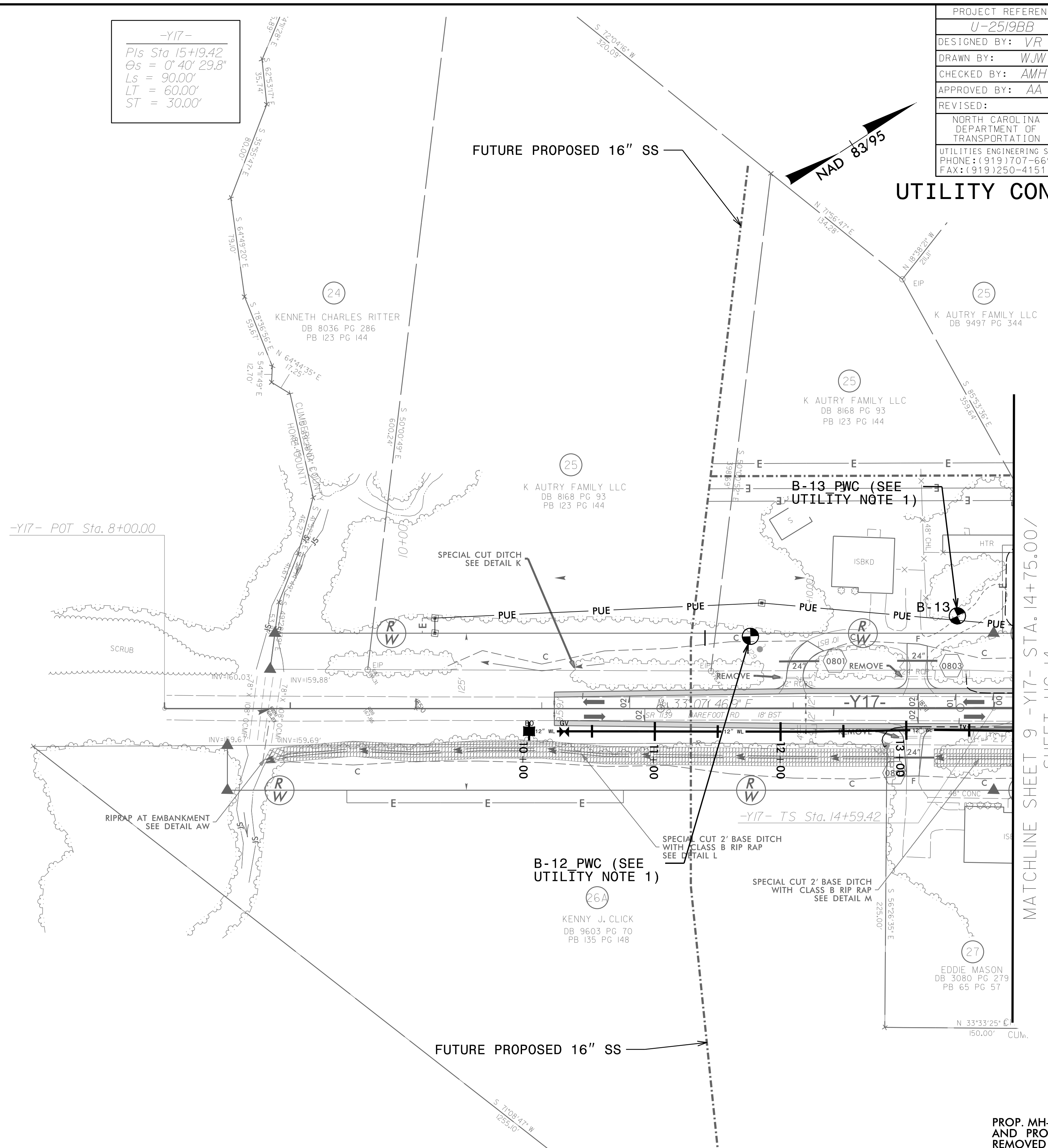
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|--|---------------------------------|
| PROJECT REFERENCE NO. | SHEET NO. |
| U-2519BB | UC-13 |
| DESIGNED BY: VR | |
| DRAWN BY: WJW | |
| CHECKED BY: AMH | |
| APPROVED BY: AA | |
| REVISED: | |
| NORTH CAROLINA DEPARTMENT OF TRANSPORTATION | |
| UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151 | UTILITY CONSTRUCTION PLANS ONLY |

UTILITY CONSTRUCTION

UTILITY NOTE:

1. B-# PWC REFERENCES SUPPLEMENTAL GEOTECHNICAL ENGINEERING DATA RETRIEVED TO ASSISTS BIDDERS IN DEFINING EXISTING SOIL CONDITIONS.

-Y17-
 PIs Sta 15+19.42
 $\theta_s = 0^\circ 40' 29.8''$
 $L_s = 90.00'$
 $LT = 60.00'$
 $ST = 30.00'$



MATCHLINE SHEET 9 -Y17- STA. 14+75.00/
SHEET UC-14

PROP. MH-1, PROP. MH-2, AND PROP. CO-1 HAVE BEEN REMOVED FROM PROJECT DUE TO REALIGNMENT PER UTILITY OWNER. THIS SHEET IS NO LONGER NEEDED FOR -SL-1 (BAREFOOT RD EXT).

NOTES:
 SEE SHEET 25 FOR -Y17- PROFILE
 DRIVEWAY RADII ARE 10' UNLESS
 OTHERWISE NOTED

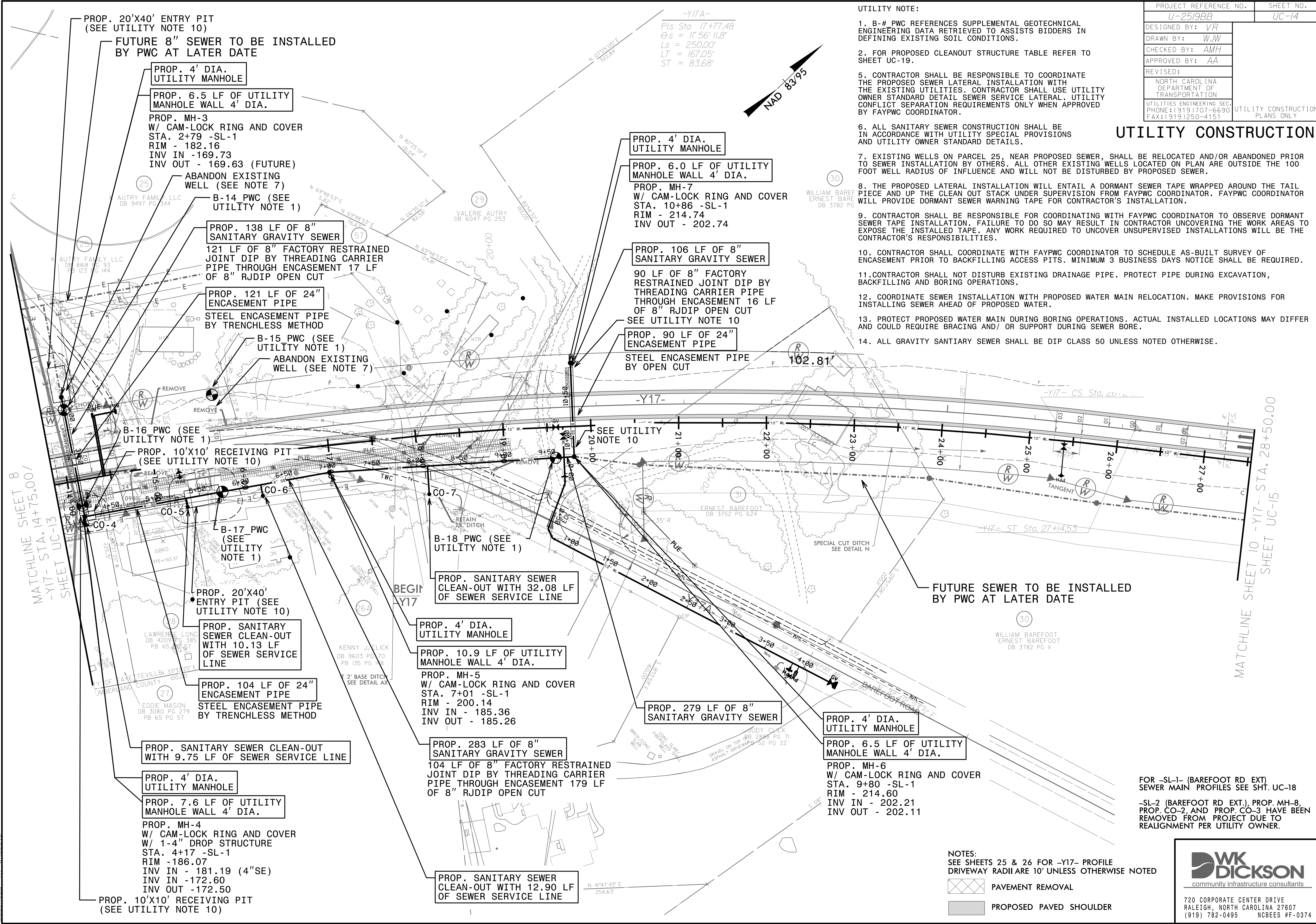
PAVED SHOULDER



720 CORPORATE CENTER DRIVE
 RALEIGH, NORTH CAROLINA 27607
 (919) 782-0495 NCBEES #F-0374

22-MAR-2022 12:48
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8/17/99
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 addokole AL WKD2216



UTILITY NOTE:

- B-# PWC REFERENCES SUPPLEMENTAL GEOTECHNICAL ENGINEERING DATA RETRIEVED TO ASSISTS BIDDERS IN DEFINING EXISTING SOIL CONDITIONS.
- FOR PROPOSED CLEANOUT STRUCTURE TABLE REFER TO SHEET UC-19.
- CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE THE PROPOSED SEWER LATERAL INSTALLATION WITH THE EXISTING UTILITIES. CONTRACTOR SHALL USE UTILITY OWNER STANDARD DETAIL SEWER SERVICE LATERAL. UTILITY CONFLICT SEPARATION REQUIREMENTS ONLY WHEN APPROVED BY FAYPWC COORDINATOR.
- ALL SANITARY SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH UTILITY SPECIAL PROVISIONS AND UTILITY OWNER STANDARD DETAILS.
- EXISTING WELLS ON PARCEL 25, NEAR PROPOSED SEWER, SHALL BE RELOCATED AND/OR ABANDONED PRIOR TO SEWER INSTALLATION BY OTHERS. ALL OTHER EXISTING WELLS LOCATED ON PLAN ARE OUTSIDE THE 100 FOOT WELL RADIUS OF INFLUENCE AND WILL NOT BE DISTURBED BY PROPOSED SEWER.
- THE PROPOSED LATERAL INSTALLATION WILL ENTAIL A DORMANT SEWER TAPE WRAPPED AROUND THE TAIL PIECE AND UP THE CLEAN OUT STACK UNDER SUPERVISION FROM FAYPWC COORDINATOR. FAYPWC COORDINATOR WILL PROVIDE DORMANT SEWER WARNING TAPE FOR CONTRACTOR'S INSTALLATION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH FAYPWC COORDINATOR TO OBSERVE DORMANT SEWER TAPE INSTALLATION. FAILURE TO DO SO MAY RESULT IN CONTRACTOR UNCOVERING THE WORK AREAS TO EXPOSE THE INSTALLED TAPE. ANY WORK REQUIRED TO UNCOVER UNSUPERVISED INSTALLATIONS WILL BE THE CONTRACTOR'S RESPONSIBILITIES.
- CONTRACTOR SHALL COORDINATE WITH FAYPWC COORDINATOR TO SCHEDULE AS-BUILT SURVEY OF ENCASUREMENT PRIOR TO BACKFILLING ACCESS PITS. MINIMUM 3 BUSINESS DAYS NOTICE SHALL BE REQUIRED.
- CONTRACTOR SHALL NOT DISTURB EXISTING DRAINAGE PIPE. PROTECT PIPE DURING EXCAVATION, BACKFILLING AND BORING OPERATIONS.
- COORDINATE SEWER INSTALLATION WITH PROPOSED WATER MAIN RELOCATION. MAKE PROVISIONS FOR INSTALLING SEWER AHEAD OF PROPOSED WATER.
- PROTECT PROPOSED WATER MAIN DURING BORING OPERATIONS. ACTUAL INSTALLED LOCATIONS MAY DIFFER AND COULD REQUIRE BRACING AND/ OR SUPPORT DURING SEWER BORE.
- ALL GRAVITY SANITARY SEWER SHALL BE DIP CLASS 50 UNLESS NOTED OTHERWISE.

UTILITY CONSTRUCTION

| | |
|--|---------------------------------|
| PROJECT REFERENCE NO. U-2519BB | SHEET NO. UC-14 |
| DESIGNED BY: VR | UTILITY CONSTRUCTION PLANS ONLY |
| DRAWN BY: WJW | |
| CHECKED BY: AMH | |
| APPROVED BY: AA | |
| REVISED: | |
| NORTH CAROLINA DEPARTMENT OF TRANSPORTATION | |
| UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151 | |

MATCHLINE SHEET 8
 -Y17- STA. 14+75.00/
 SHEET UC-13

MATCHLINE SHEET 10 -Y17- STA. 28+50.00
 SHEET UC-15

FUTURE SEWER TO BE INSTALLED BY PWC AT LATER DATE

- NOTES:**
- SEE SHEETS 25 & 26 FOR -Y17- PROFILE DRIVEWAY RADII ARE 10' UNLESS OTHERWISE NOTED
 - PAVEMENT REMOVAL
 - PROPOSED PAVED SHOULDER

FOR -SL-1 (BAREFOOT RD EXT) SEWER MAIN PROFILES SEE SHT. UC-18
 -SL-2 (BAREFOOT RD EXT.), PROP. MH-8, PROP. CO-2, AND PROP. CO-3 HAVE BEEN REMOVED FROM PROJECT DUE TO REALIGNMENT PER UTILITY OWNER.

WK DICKSON
 community infrastructure consultants
 720 CORPORATE CENTER DRIVE
 RALEIGH, NORTH CAROLINA 27607
 (919) 782-0495 NCBEES #F-0374

8/17/99
25-MAR-2022 12:48
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-Y17-

| | | |
|--|--|--|
| PIs Sta 15+19.42 θs = 0° 40' 29.8" Ls = 90.00' LT = 60.00' ST = 30.00' | PI Sta 20+90.55 Δ = 16° 07' 31.8" (RT) D = 1° 29' 59.6" L = 1,075.11' R = 541.3' Vd = 3,820.00' SUPER = 3% | PIs Sta 26+54.53 θs = 0° 40' 29.8" Ls = 90.00' LT = 60.00' ST = 30.00' |
|--|--|--|

-Y17A-

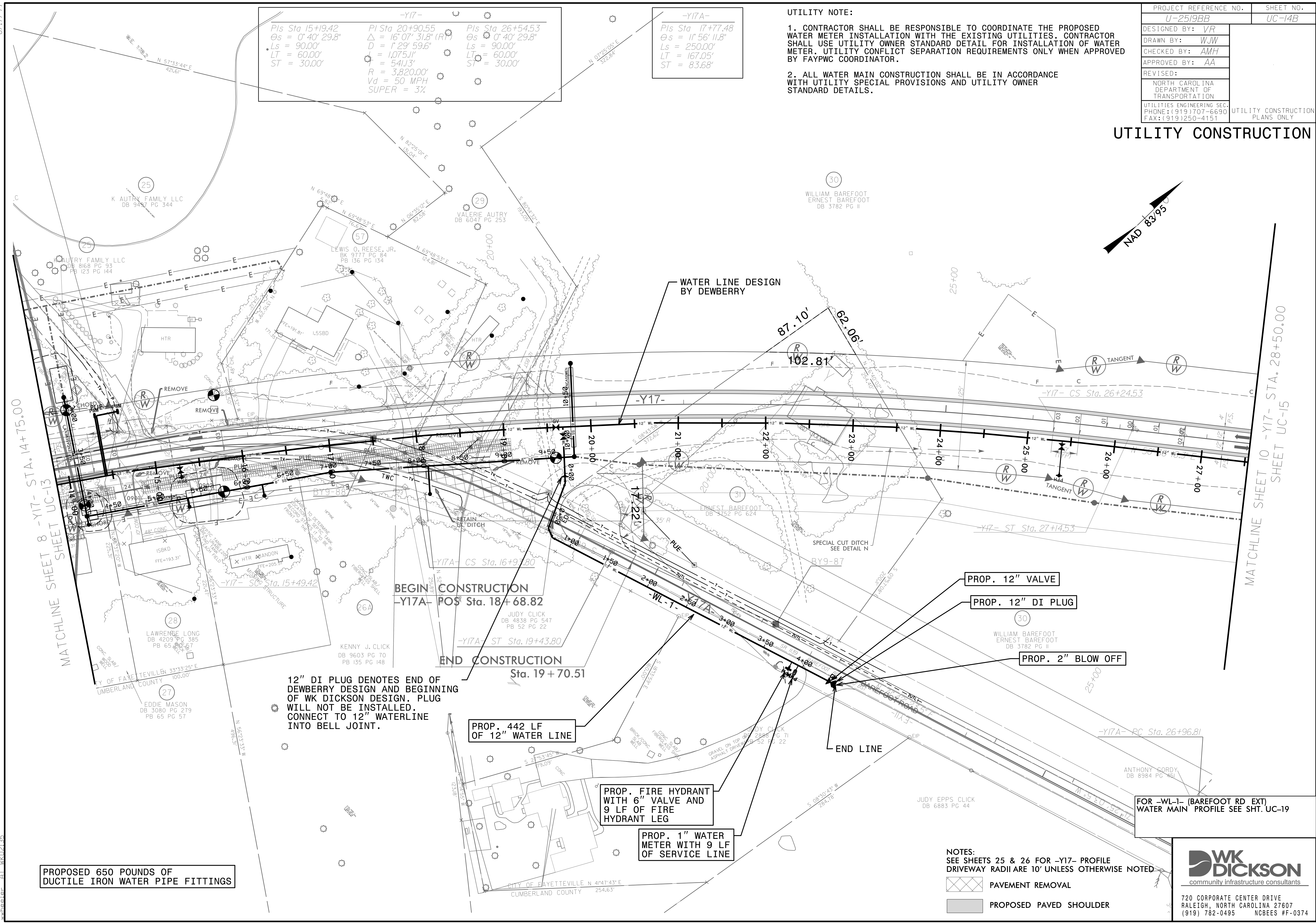
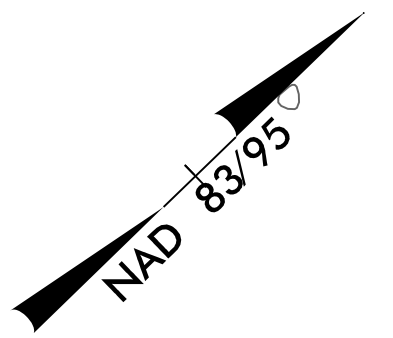
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|---|
| PIs Sta 17+77.48 θs = 11° 56' 11.8" Ls = 250.00' LT = 167.05' ST = 83.68' |
|---|

UTILITY NOTE:

1. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE THE PROPOSED WATER METER INSTALLATION WITH THE EXISTING UTILITIES. CONTRACTOR SHALL USE UTILITY OWNER STANDARD DETAIL FOR INSTALLATION OF WATER METER. UTILITY CONFLICT SEPARATION REQUIREMENTS ONLY WHEN APPROVED BY FAYPWC COORDINATOR.
2. ALL WATER MAIN CONSTRUCTION SHALL BE IN ACCORDANCE WITH UTILITY SPECIAL PROVISIONS AND UTILITY OWNER STANDARD DETAILS.

| | |
|--|---------------------------------|
| PROJECT REFERENCE NO. U-2519BB | SHEET NO. UC-14B |
| DESIGNED BY: VR | UTILITY CONSTRUCTION PLANS ONLY |
| DRAWN BY: WJW | |
| CHECKED BY: AMH | |
| APPROVED BY: AA | |
| REVISED: | |
| NORTH CAROLINA DEPARTMENT OF TRANSPORTATION | |
| UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151 | |

UTILITY CONSTRUCTION



PROPOSED 650 POUNDS OF DUCTILE IRON WATER PIPE FITTINGS

12" DI PLUG DENOTES END OF DEWBERRY DESIGN AND BEGINNING OF WK DICKSON DESIGN. PLUG WILL NOT BE INSTALLED. CONNECT TO 12" WATERLINE INTO BELL JOINT.

NOTES:
SEE SHEETS 25 & 26 FOR -Y17- PROFILE
DRIVEWAY RADII ARE 10' UNLESS OTHERWISE NOTED

- PAVEMENT REMOVAL
- PROPOSED PAVED SHOULDER



720 CORPORATE CENTER DRIVE
RALEIGH, NORTH CAROLINA 27607
(919) 782-0495 NCBEES #F-0374

| | |
|--|------------------------------------|
| PROJECT REFERENCE NO. | SHEET NO. |
| U-2519BB | UC-15 |
| DESIGNED BY: VR | UTILITY CONSTRUCTION PLANS ONLY |
| DRAWN BY: WJW | |
| CHECKED BY: AMH | |
| APPROVED BY: AA | |
| REVISED: | |
| NORTH CAROLINA DEPARTMENT OF TRANSPORTATION | |
| UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151 | |

UTILITY NOTE:

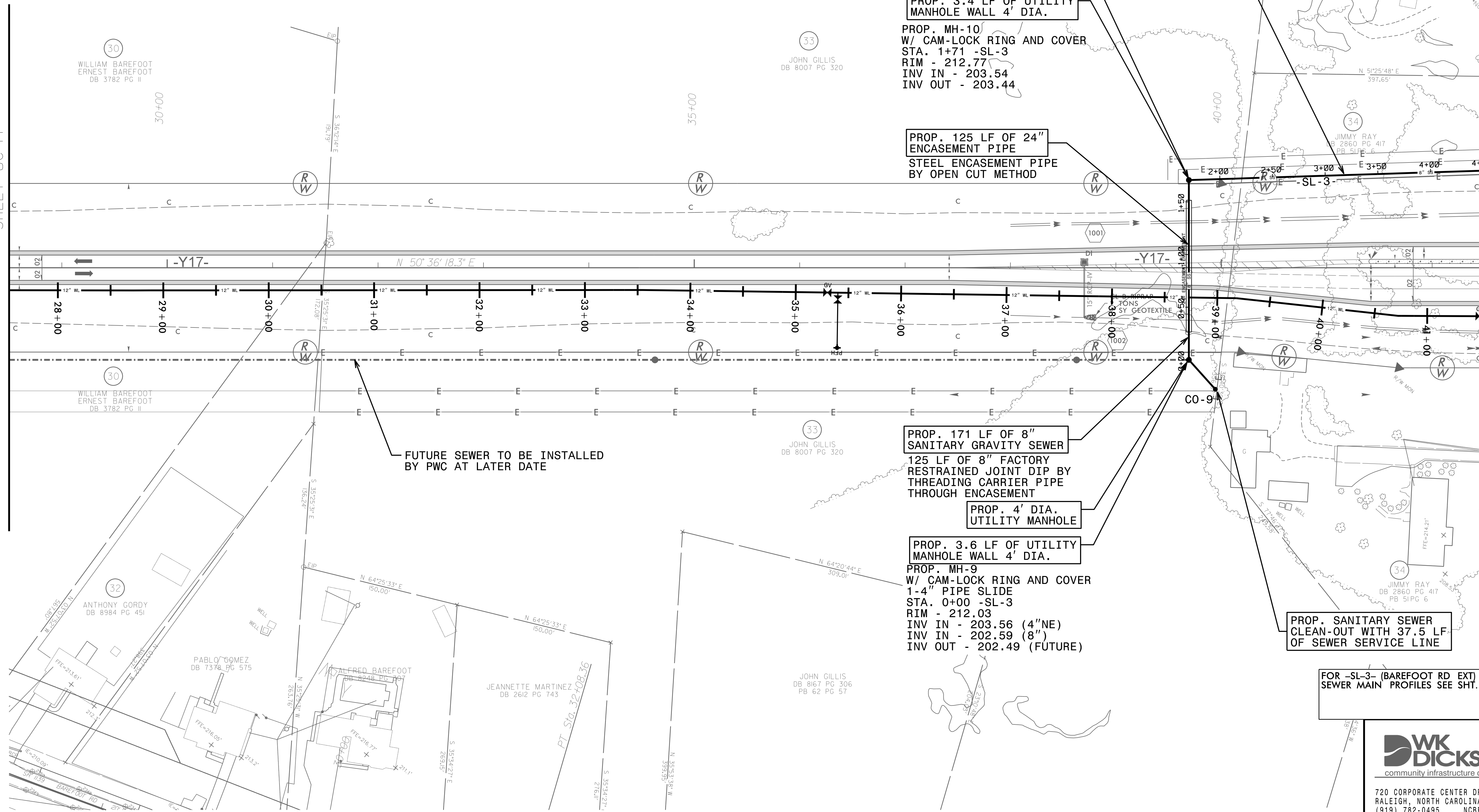
- ALL EXISTING WELLS LOCATED ON PLAN ARE OUTSIDE THE 100 FOOT WELL RADIUS OF INFLUENCE AND WILL NOT BE DISTURBED BY PROPOSED SEWER.
- FOR PROPOSED CLEANOUT STRUCTURE TABLE REFER TO SHEET UC-19.
- CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE THE PROPOSED SEWER LATERAL INSTALLATION WITH THE EXISTING UTILITIES. CONTRACTOR SHALL USE UTILITY OWNER STANDARD DETAIL SEWER SERVICE LATERAL. UTILITY CONFLICT SEPARATION REQUIREMENTS ONLY WHEN APPROVED BY UTILITY OWNER PROJECT COORDINATOR.
- ALL SANITARY SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH UTILITY SPECIAL PROVISIONS AND UTILITY OWNER STANDARD DETAILS.
- THE PROPOSED LATERAL INSTALLATION WILL ENTAIL A DORMANT SEWER TAPE WRAPPED AROUND THE TAIL PIECE AND UP THE CLEAN OUT STACK UNDER SUPERVISION FROM UTILITY OWNER'S PROJECT COORDINATOR. FAYPWC COORDINATOR WILL PROVIDE DORMANT SEWER WARNING TAPE FOR CONTRACTOR'S INSTALLATION.

UTILITY NOTE CONT:

- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH FAYPWC COORDINATOR TO OBSERVE DORMANT SEWER TAPE INSTALLATION. FAILURE TO DO SO MAY RESULT IN CONTRACTOR UNCOVERING THE WORK AREAS TO EXPOSE THE INSTALLED TAPE. ANY WORK REQUIRED TO UNCOVER UNSUPERVISED INSTALLATIONS WILL BE THE CONTRACTOR'S RESPONSIBILITIES.
- CONTRACTOR SHALL COORDINATE WITH FAYPWC COORDINATOR TO SCHEDULE AS-BUILT SURVEY OF ENCASEMENT PRIOR TO BACKFILLING ACCESS PITS. MINIMUM 3 BUSINESS DAYS NOTICE SHALL BE REQUIRED.
- COORDINATE SEWER INSTALLATION WITH PROPOSED WATER MAIN RELOCATION. MAKE PROVISIONS FOR INSTALLING SEWER AHEAD OF PROPOSED WATER.
- PROTECT PROPOSED WATER MAIN DURING BORING OPERATIONS. ACTUAL INSTALLED LOCATIONS MAY DIFFER AND COULD REQUIRE BRACING AND/ OR SUPPORTING THESE DURING SEWER BORE.

UTILITY CONSTRUCTION

MATCHLINE SHEET 9 -Y17- STA. 28+50.00
SHEET UC-14



MATCHLINE SHEET 11 -Y17- STA. 42+50.00/
SHEET UC-16 -SL-3- STA. 4+51

FOR -SL-3- (BAREFOOT RD EXT)
SEWER MAIN PROFILES SEE SHT. UC-19

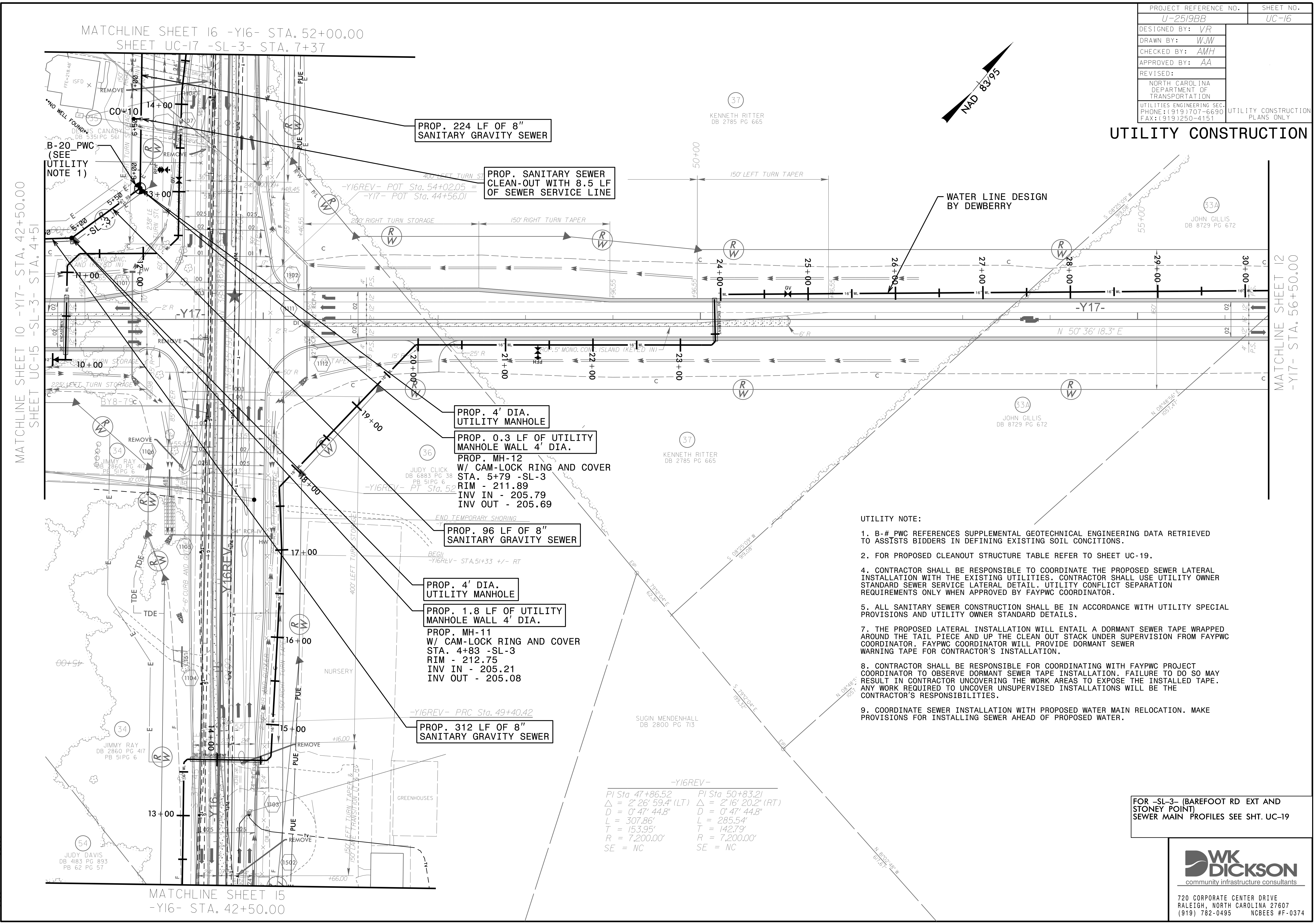
WK DICKSON
community infrastructure consultants

720 CORPORATE CENTER DRIVE
RALEIGH, NORTH CAROLINA 27607
(919) 782-0495 NCBEES #F-0374

8/17/99
 22-MAR-2022 12:48
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| | |
|--|---------------------------------|
| PROJECT REFERENCE NO. | SHEET NO. |
| U-2519BB | UC-16 |
| DESIGNED BY: VR | UTILITY CONSTRUCTION PLANS ONLY |
| DRAWN BY: WJW | |
| CHECKED BY: AMH | |
| APPROVED BY: AA | |
| REVISED: | |
| NORTH CAROLINA DEPARTMENT OF TRANSPORTATION | |
| UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151 | |

UTILITY CONSTRUCTION



- UTILITY NOTE:**
- B-# PWC REFERENCES SUPPLEMENTAL GEOTECHNICAL ENGINEERING DATA RETRIEVED TO ASSISTS BIDDERS IN DEFINING EXISTING SOIL CONCITIONS.
 - FOR PROPOSED CLEANOUT STRUCTURE TABLE REFER TO SHEET UC-19.
 - CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE THE PROPOSED SEWER LATERAL INSTALLATION WITH THE EXISTING UTILITIES. CONTRACTOR SHALL USE UTILITY OWNER STANDARD SEWER SERVICE LATERAL DETAIL. UTILITY CONFLICT SEPARATION REQUIREMENTS ONLY WHEN APPROVED BY FAYPWC COORDINATOR.
 - ALL SANITARY SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH UTILITY SPECIAL PROVISIONS AND UTILITY OWNER STANDARD DETAILS.
 - THE PROPOSED LATERAL INSTALLATION WILL ENTAIL A DORMANT SEWER TAPE WRAPPED AROUND THE TAIL PIECE AND UP THE CLEAN OUT STACK UNDER SUPERVISION FROM FAYPWC COORDINATOR. FAYPWC COORDINATOR WILL PROVIDE DORMANT SEWER WARNING TAPE FOR CONTRACTOR'S INSTALLATION.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH FAYPWC PROJECT COORDINATOR TO OBSERVE DORMANT SEWER TAPE INSTALLATION. FAILURE TO DO SO MAY RESULT IN CONTRACTOR UNCOVERING THE WORK AREAS TO EXPOSE THE INSTALLED TAPE. ANY WORK REQUIRED TO UNCOVER UNSUPERVISED INSTALLATIONS WILL BE THE CONTRACTOR'S RESPONSIBILITIES.
 - COORDINATE SEWER INSTALLATION WITH PROPOSED WATER MAIN RELOCATION. MAKE PROVISIONS FOR INSTALLING SEWER AHEAD OF PROPOSED WATER.

FOR -SL-3- (BAREFOOT RD EXT AND STONEY POINT) SEWER MAIN PROFILES SEE SHT. UC-19



720 CORPORATE CENTER DRIVE
RALEIGH, NORTH CAROLINA 27607
(919) 782-0495 NCBEES #F-0374

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MATCHLINE SHEET 10 -Y17- STA. 42+50.00
SHEET UC-15 -SL-3- STA. 4+51

MATCHLINE SHEET 15
-Y16- STA. 42+50.00

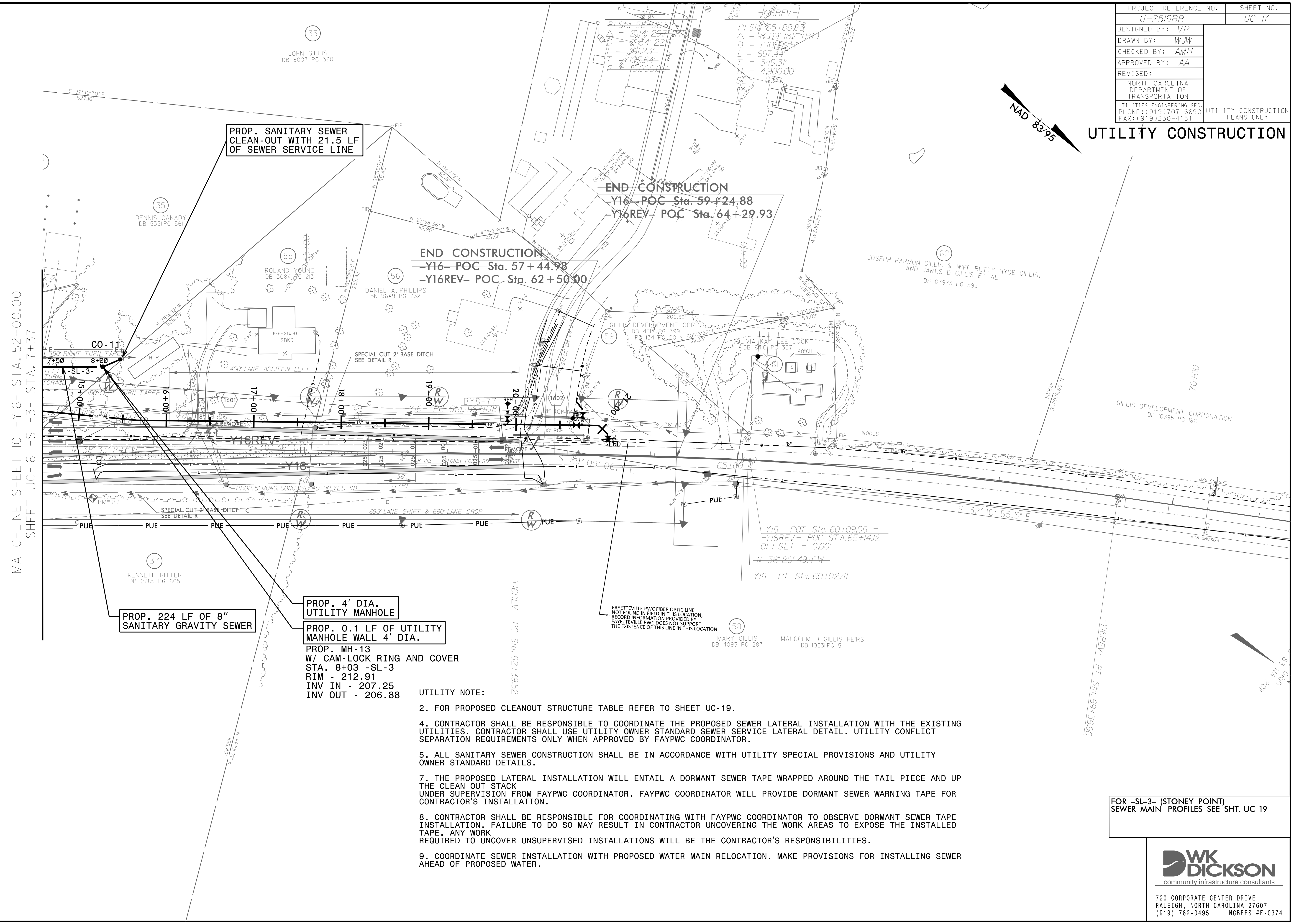
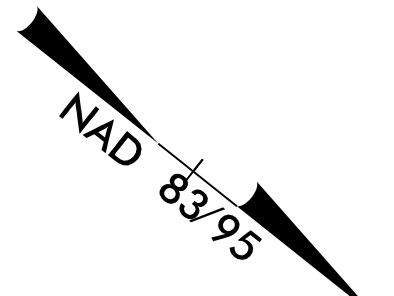
MATCHLINE SHEET 12
-Y17- STA. 56+50.00

MATCHLINE SHEET 16 -Y16- STA. 52+00.00
SHEET UC-17 -SL-3- STA. 7+37

-Y16REV-
PI Sta 47+86.52 PI Sta 50+83.21
Δ = 2' 26' 59.4" (LT) Δ = 2' 16' 20.2" (RT)
D = 0' 47' 44.8" D = 0' 47' 44.8"
L = 307.86' L = 285.54'
T = 153.95' T = 142.79'
R = 7,200.00' R = 7,200.00'
SE = NC SE = NC

| | |
|---|------------------------------------|
| PROJECT REFERENCE NO. | SHEET NO. |
| U-2519BB | UC-17 |
| DESIGNED BY: VR | UTILITY CONSTRUCTION PLANS ONLY |
| DRAWN BY: WJW | |
| CHECKED BY: AMH | |
| APPROVED BY: AA | |
| REVISED: | |
| NORTH CAROLINA DEPARTMENT OF TRANSPORTATION | |
| UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 1250-4151 | |

UTILITY CONSTRUCTION



MATCHLINE SHEET 10 -Y16- STA. 52+00.00
SHEET UC-6 -SL-3- STA. 7+37

PROP. SANITARY SEWER
CLEAN-OUT WITH 21.5 LF
OF SEWER SERVICE LINE

PROP. 224 LF OF 8"
SANITARY GRAVITY SEWER

PROP. 4' DIA.
UTILITY MANHOLE
PROP. 0.1 LF OF UTILITY
MANHOLE WALL 4' DIA.
PROP. MH-13
W/ CAM-LOCK RING AND COVER
STA. 8+03 -SL-3
RIM - 212.91
INV IN - 207.25
INV OUT - 206.88

END CONSTRUCTION
-Y16- POC Sta. 57+44.98
-Y16REV- POC Sta. 62+50.00

END CONSTRUCTION
-Y16- POC Sta. 59+24.88
-Y16REV- POC Sta. 64+29.93

-Y16- POT Sta. 60+09.06 =
-Y16REV- POC STA. 65+14.12
OFFSET = 0.00'
-N 36° 20' 49.4" W -
-Y16- PT Sta. 60+02.41-

UTILITY NOTE:

- FOR PROPOSED CLEANOUT STRUCTURE TABLE REFER TO SHEET UC-19.
- CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE THE PROPOSED SEWER LATERAL INSTALLATION WITH THE EXISTING UTILITIES. CONTRACTOR SHALL USE UTILITY OWNER STANDARD SEWER SERVICE LATERAL DETAIL. UTILITY CONFLICT SEPARATION REQUIREMENTS ONLY WHEN APPROVED BY FAYPWC COORDINATOR.
- ALL SANITARY SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH UTILITY SPECIAL PROVISIONS AND UTILITY OWNER STANDARD DETAILS.
- THE PROPOSED LATERAL INSTALLATION WILL ENTAIL A DORMANT SEWER TAPE WRAPPED AROUND THE TAIL PIECE AND UP THE CLEAN OUT STACK UNDER SUPERVISION FROM FAYPWC COORDINATOR. FAYPWC COORDINATOR WILL PROVIDE DORMANT SEWER WARNING TAPE FOR CONTRACTOR'S INSTALLATION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH FAYPWC COORDINATOR TO OBSERVE DORMANT SEWER TAPE INSTALLATION. FAILURE TO DO SO MAY RESULT IN CONTRACTOR UNCOVERING THE WORK AREAS TO EXPOSE THE INSTALLED TAPE. ANY WORK REQUIRED TO UNCOVER UNSUPERVISED INSTALLATIONS WILL BE THE CONTRACTOR'S RESPONSIBILITIES.
- COORDINATE SEWER INSTALLATION WITH PROPOSED WATER MAIN RELOCATION. MAKE PROVISIONS FOR INSTALLING SEWER AHEAD OF PROPOSED WATER.

FOR -SL-3- (STONEY POINT)
SEWER MAIN PROFILES SEE SHT. UC-19



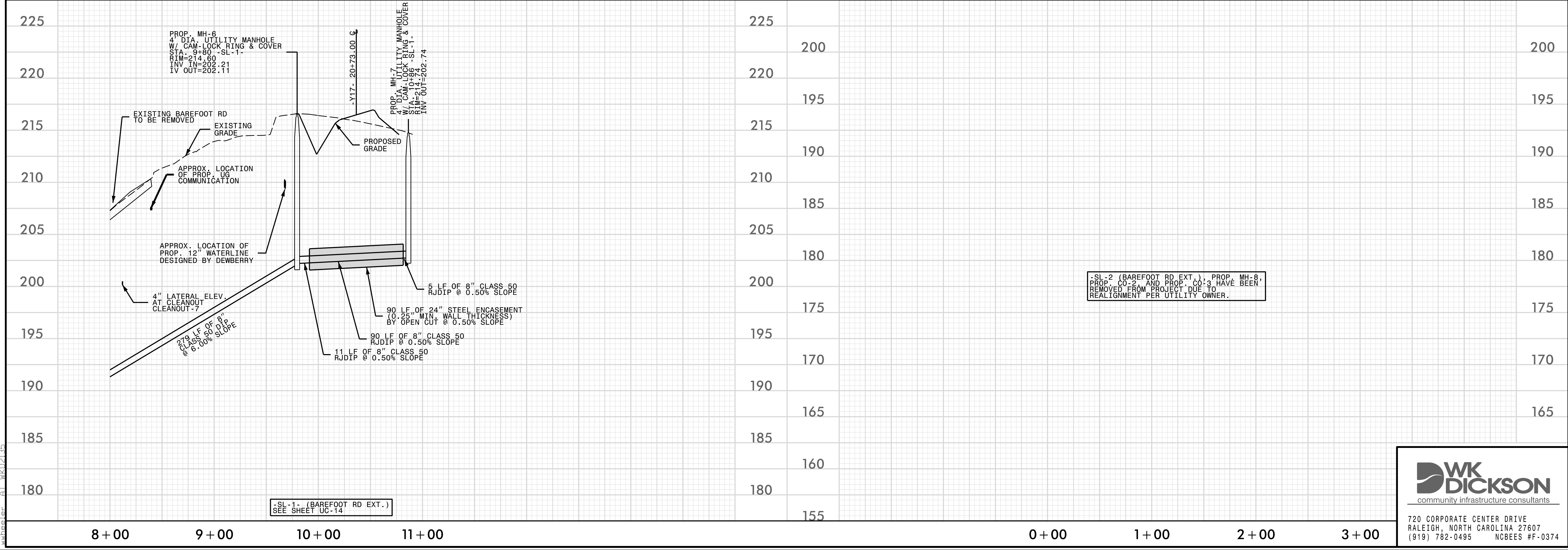
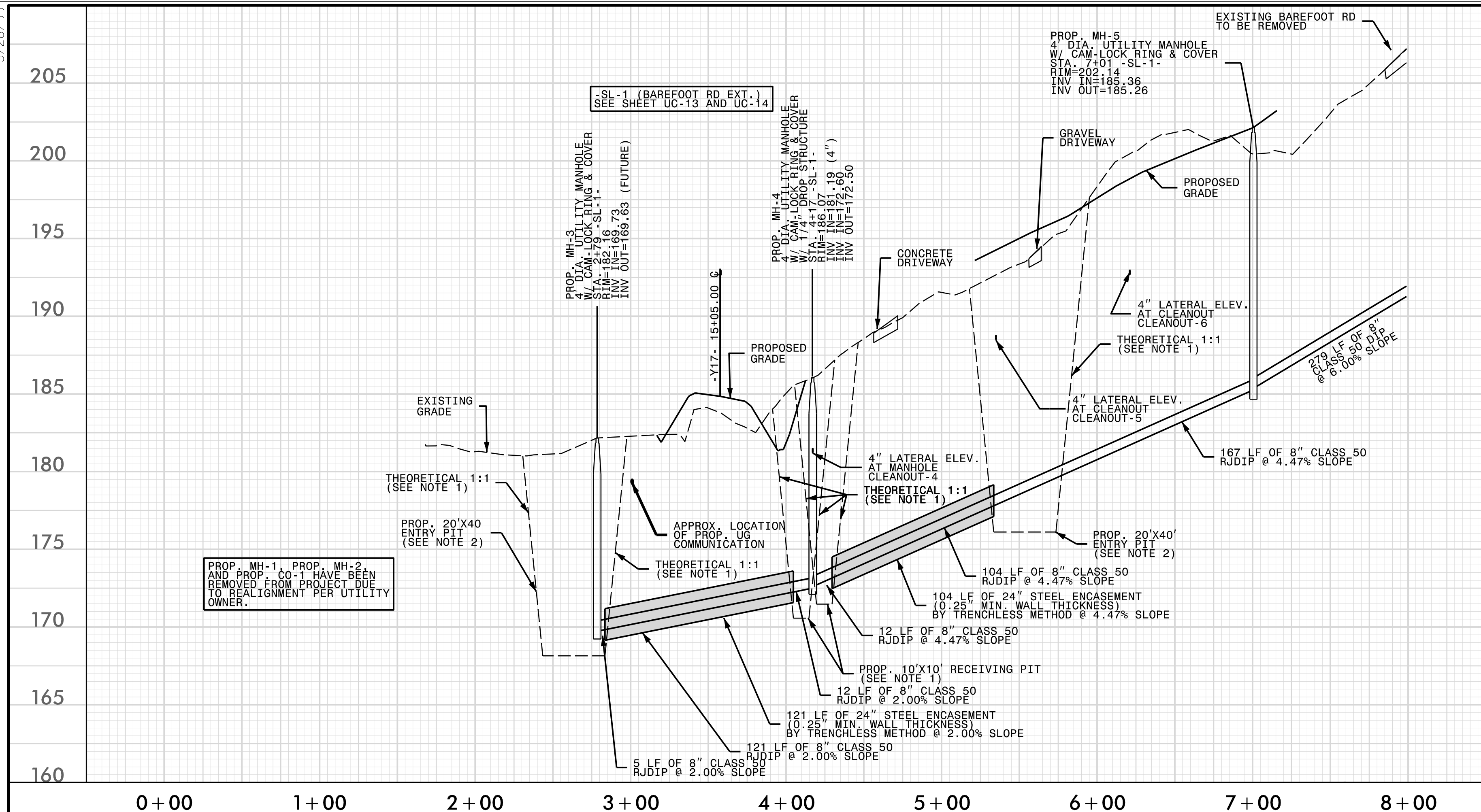
720 CORPORATE CENTER DRIVE
RALEIGH, NORTH CAROLINA 27607
(919) 782-0495 NCBEES #F-0374

8/17/99
22-MAR-2022 12:48
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MicroStation - AT - MKD133

| | |
|--|---------------------------------|
| PROJECT REFERENCE NO. | SHEET NO. |
| U-2519BB | UC-18 |
| DESIGNED BY: VR | |
| DRAWN BY: WJW | |
| CHECKED BY: AMH | |
| APPROVED BY: AA | |
| REVISED: | |
| NORTH CAROLINA DEPARTMENT OF TRANSPORTATION | |
| UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151 | UTILITY CONSTRUCTION PLANS ONLY |

UTILITY CONSTRUCTION

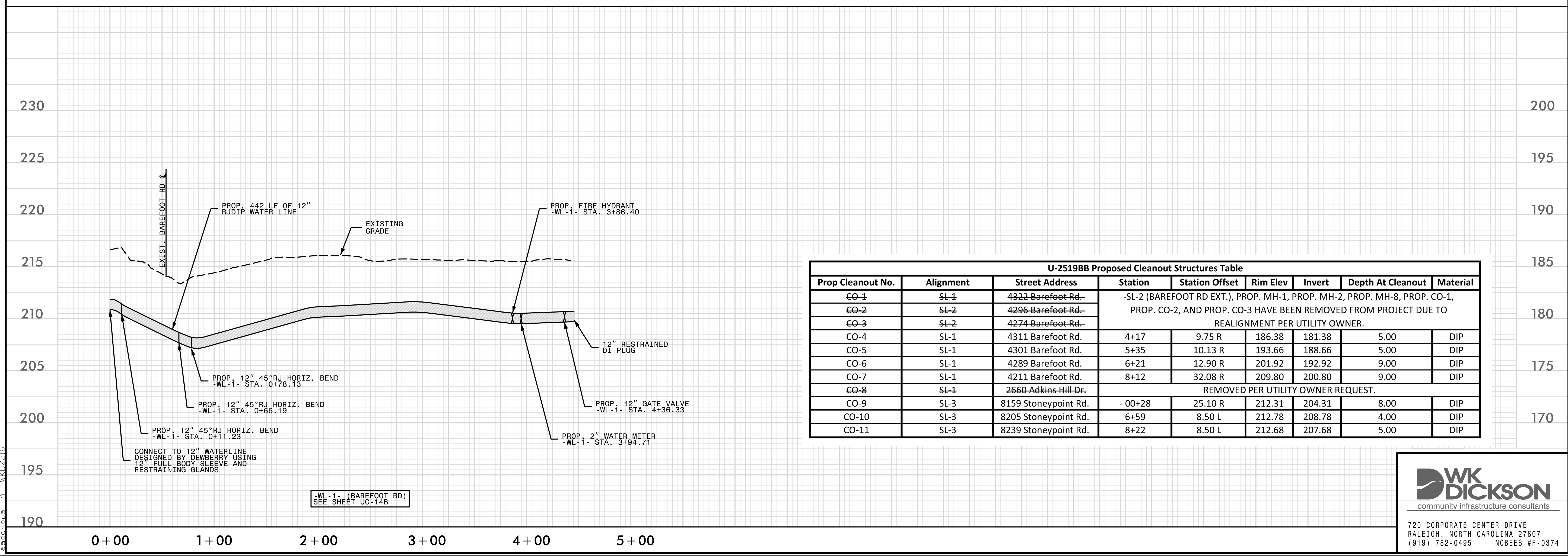
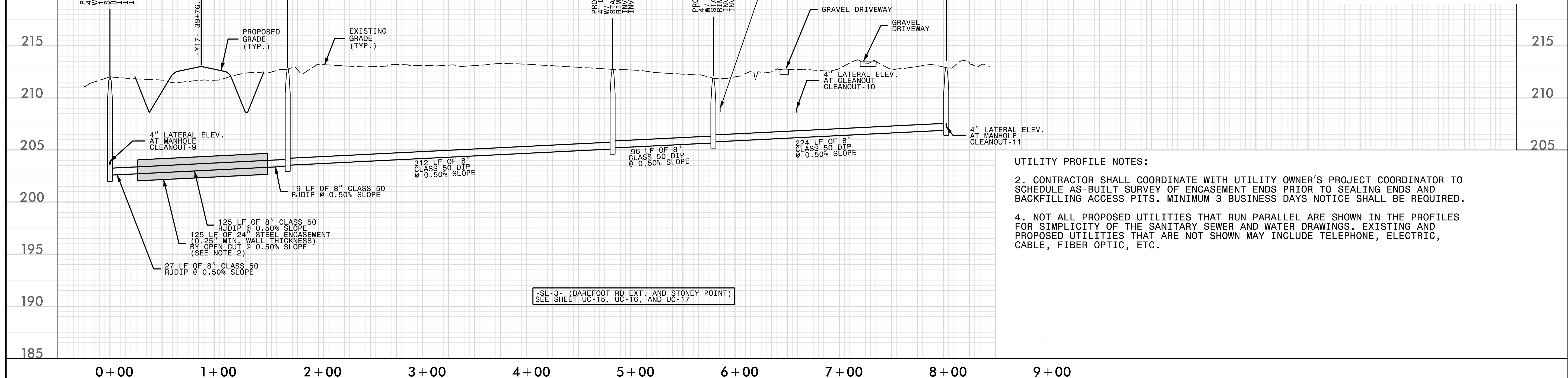
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5/28/99
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| | |
|--|-----------|
| PROJECT REFERENCE NO. | SHEET NO. |
| U-2519BB | UC-19 |
| DESIGNED BY: VR | |
| DRAWN BY: WJW | |
| CHECKED BY: AMH | |
| APPROVED BY: AA | |
| REVISED: | |
| NORTH CAROLINA DEPARTMENT OF TRANSPORTATION | |
| UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151 | |
| UTILITY CONSTRUCTION PLANS ONLY | |

UTILITY CONSTRUCTION



| Prop Cleanout No. | Alignment | Street Address | Station | Station Offset | Rim Elev | Invert | Depth At Cleanout | Material |
|-------------------|-----------|----------------------|---|----------------|----------|--------|-------------------|----------|
| CO-1 | SL-1 | 4322 Barefoot Rd. | -SL-2 (BAREFOOT RD EXT.), PROP. MH-1, PROP. MH-2, PROP. MH-8, PROP. CO-1, PROP. CO-2, AND PROP. CO-3 HAVE BEEN REMOVED FROM PROJECT DUE TO REALIGNMENT PER UTILITY OWNER. | | | | | |
| CO-2 | SL-2 | 4296 Barefoot Rd. | | | | | | |
| CO-3 | SL-2 | 4274 Barefoot Rd. | | | | | | |
| CO-4 | SL-1 | 4311 Barefoot Rd. | 4+17 | 9.75 R | 186.38 | 181.38 | 5.00 | DIP |
| CO-5 | SL-1 | 4301 Barefoot Rd. | 5+35 | 10.13 R | 193.66 | 188.66 | 5.00 | DIP |
| CO-6 | SL-1 | 4289 Barefoot Rd. | 6+21 | 12.90 R | 201.92 | 192.92 | 9.00 | DIP |
| CO-7 | SL-1 | 4211 Barefoot Rd. | 8+12 | 32.08 R | 209.80 | 200.80 | 9.00 | DIP |
| CO-8 | SL-1 | 2660 Adkins Hill Dr. | REMOVED PER UTILITY OWNER REQUEST. | | | | | |
| CO-9 | SL-3 | 8159 Stony Point Rd. | -00+28 | 25.10 R | 212.31 | 204.31 | 8.00 | DIP |
| CO-10 | SL-3 | 8205 Stony Point Rd. | 6+59 | 8.50 L | 212.78 | 208.78 | 4.00 | DIP |
| CO-11 | SL-3 | 8239 Stony Point Rd. | 8+22 | 8.50 L | 212.68 | 207.68 | 5.00 | DIP |

community infrastructure consultants
 720 CORPORATE CENTER DRIVE
 RALEIGH, NORTH CAROLINA 27607
 (919) 782-0495 NCBES #F-0374