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PROJECT B-5239 VICINITY MAP

STATE OF NORTH CAROLINA

T.I.P. NO.

B-5239

UC-1

SHEET NO.

UTILITY CONSTRUCTION PLANS ALAMANCE COUNTY

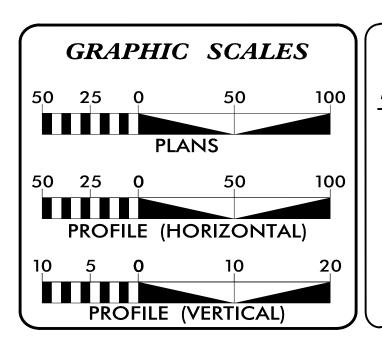
LOCATION: BRIDGE NO. 126 OVER MILL RACE & NO. 119 OVER HAW RIVER ON NC 87

TYPE OF WORK: SANITARY SEWER RELOCATION



END TIP PROJECT -L- STA. 24+85.00 BEGIN BRIDGE
-L- STA. 18+68.38 BEGIN CONSTRUCTION -Y3- STA. 10+15.00 BEGIN CONSTRUCTION -Y1- STA. 10 + 85.00 MILL RACE PROPOSED GRAVITY SEWER HAW RIVER END BRIDGE $\sqrt{-L-STA. 19 + 41.00}$ -TEMP DRV-BRIDGE NO. 119 _L_ NC 87 _L_ NC 87 TO BURLINGTON BEGIN BRIDGE
-L- STA. 14 + 92.00 END BRIDGE -L- STA. 17 + 77.00 K * K * K MILL RACE -Y2- SR 1002-BEGIN TIP PROJECT -L- STA. 10+00.00END CONSTRUCTION
-Y2- STA. 11+36.00 HAW RIVER

DOCUMENT NOT CONSIDERED FINAL UNTIL ALL SIGNATURES ARE COMPLETED



INDEX OF SHEETS SHEET NO.: **DESCRIPTION:**

TITLE SHEET UTILITY SYMBOLOGY *UC-3* **NOTES** *UC-3A* **DETAILS** *UC-4* UTILITY CONSTRUCTION SHEET *UC-5* PROFILE SHEET

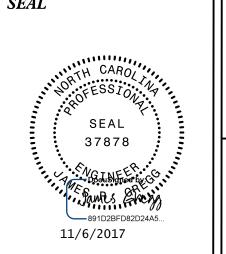
WATER AND SEWER OWNERS ON PROJECT

(A) SANITARY SEWER ALAMANCE-BURLINGTON SCHOOL SYSTEM



CONSULTANT CONTACT #2

CONSULTANT CONTACT #3





TO ALTAMAHAW___

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

Donna Jackson, P.E. Don Proper Kyle A. Pleasant

UTILITIES REGIONAL ENGINEER UTILITIES ENGINEER UTILITIES AREA COORDINATOR

Kyle A. Pleasant UTILITIES COORDINATOR

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

UTILITIES PLAN SHEET SYMBOLS

PROPOSED WATER SYMBOLS

Water Line (Sized as Shown) 111⁄4 Degree Bend 22½ Degree Bend 45 Degree Bend -----90 Degree Bend ····· Cross-Reducer Gate Valve Butterfly Valve ----Tapping Valve ... Line Stop Line Stop with Bypass... Fire Hydrant ····· Relocate Fire Hydrant REM FH Remove Fire Hydrant Water Meter Relocate Water Meter Remove Water Meter Water Pump Station RPZ Backflow Preventer DCV Backflow Preventer Relocate RPZ Backflow Preventer Relocate DCV Backflow Preventer-PROPOSED SEWER SYMBOLS Gravity Sewer Line (Sized as Shown) Force Main Sewer Line (Sized as Shown) Manhole (Sized per Note)

Sewer Pump Station

PROPOSED MISCELLANOUS UTILITIES SYMBOLS

Thrust Block	I
Air Release Valve	AR •
Utility Vault	UV
Concrete Pier	CP.
Steel Pier	SP
Plan Note	NOTE
Pay Item Note	
	PAY ITE
	Thrust Block Air Release Valve Utility Vault Concrete Pier Steel Pier Plan Note Pay Item Note

EXISTING UTILITIES SYMBOLS

Power Pole	•	*Underground Power Line	P
Telephone Pole	-•-	*Underground Telephone Cable	тт
Joint Use Pole	- ←	*Underground Telephone Conduit	TC
Utility Pole	•	*Underground Fiber Optics Telephone Cable	— Т FО—
Utility Pole with Base		*Underground TV Cable	TV
H-Frame Pole	•—•	*Underground Fiber Optics TV Cable	TV FO
Power Transmission Line Tower		*Underground Gas Pipeline	
Water Manhole	₩	Aboveground Gas Pipeline	A/G Gas
Power Manhole	$_{\mathbb{P}}$	*Underground Water Line	w-
Telephone Manhole	\bigcirc	Aboveground Water Line	A/G Water
Sanitary Sewer Manhole		*Underground Gravity Sanitary Sewer Line	ss
Hand Hole for Cable	HH	Aboveground Gravity Sanitary Sewer Line	A/G Sanitary Sewer
Power Transformer		*Underground SS Forced Main Line	FSS
Telephone Pedestal	T	Underground Unknown Utility Line	
CATV Pedestal		SUE Test Hole	
Gas Valve	♦	Water Meter	
Gas Meter	♦	Water Valve	\otimes
Located Miscellaneous Utility Object	\odot	Fire Hydrant ·····	÷
Abandoned According to Utility Records	AATUR	Sanitary Sewer Cleanout	\oplus
End of Information	E.O.I.		

*For Existing Utilities
Utility Line Drawn from Record
Designated Utility Line

UTILITY CONSTRUCTION

PREPARED IN THE OFFICE OF: PROJECT REFERENCE NO. SHEET NO. B-5239 UC-3 DESIGNED BY: JRG DRAWN BY: TK THE **WOOTEN** COMPANY WORTH WOOD TO THE SERVICE OF ESSION TO CHECKED BY: JRG APPROVED BY: JRG SEAL REVISED: HORIZONTAL SCALE 37878 VERTICAL SCALE 25' 0 25' 50' NORTH CAROLINA 0 5' 10' Mamne Briggs DEPARTMENT OF **TRANSPORTATION** JTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 UTILITY CONSTRUCTION PLANS ONLY

UTILITY CONSTRUCTION

NCDOT GENERAL NOTES:

- 1. THE EXISTING UTILITIES BELONG TO ALAMANCE-BURLINGTON SCHOOL SYSTEM (6" GRAVITY SEWER).
- 2. THE PROPOSED UTILITY CONSTRUCTION IN ALAMANCE COUNTY SHALL MEET THE APPLICABLE REQUIREMENTS OF THE NC DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES" DATED JANUARY 2012.
- 3. ALL FORCE MAIN/GRAVITY SEWER TO BE INSTALLED WITHIN COMPLIANCE OF THE RULES AND REGULATIONS OF THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL AND NATURAL RESOURCES AND DIVISION OF WATER RESOURCES.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 AND THE UTILITY OWNER. 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 A MINIMUM OF ONE WEEK PRIOR TO SERVICE INTERRUPTIONS AND TESTING. KEEP UTILITY OWNERS' REPRESENTATIVES INFORMED OF WORK PROGRESS AND PROVIDE OPPROTUNITY 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 ADDITONAL 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.
- 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.

NCDOT PROJECT SPECIFIC NOTES:

- 1. PROPOSED GRAVITY SEWER SHALL BE C900 AS INDICATED ON THE CONSTRUCTION DRAWINGS.
- 2. CONTRACTOR'S ATTENTION IS DIRECTED TO SECTIONS 102, 107, AND 1550 OF THE STANDARD SPECIFICATIONS AND APPLICABLE ALAMANCE-BURLINGTON SCHOOL SYSTEM UTILITIES STANDARDS 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.
- 3. EXISTING CONDITIONS SURVEY AND PROPOSED ROADWAY PLANS PROVIDED TO THE WOOTEN COMPANY BY NCDOT, APRIL 10, 2017.
- 4. PROPOSED MANHOLE #3 AND #4 WILL BE INSTALLED WITH A RIM ELEVATION TO MATCH THE TEMPORARY DETOUR ROAD.

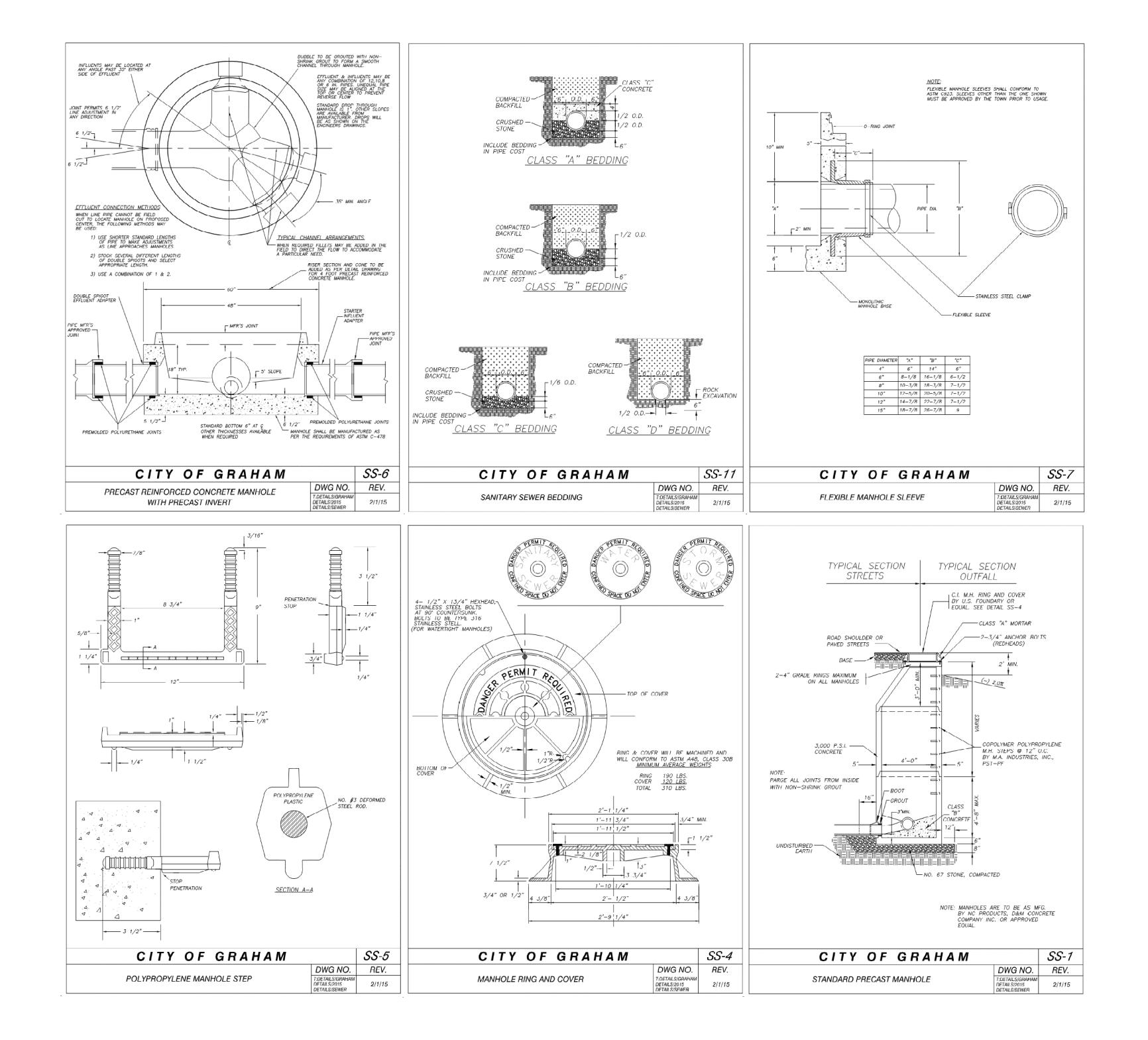
ONCE THE DETOUR ROAD HAS BEEN REMOVED, THE CONTRACTOR SHALL ADJUST MANHOLE #3 SO THAT THE RIM ELEVATION MATCHES THE FINAL GRADE ELEVATION. CONTRACTOR SHALL ADJUST MANHOLE #4 SO THAT THE RIM ELEVATION IS 605.7' (APPROXIMTELY 2' ABOVE 100 YEAR FLOOR ELEVATION OF 603.7)

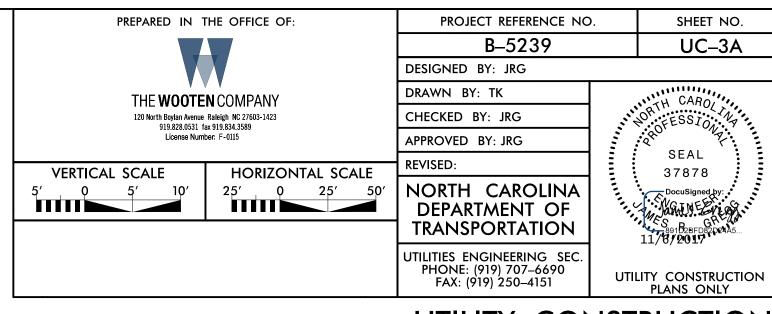
5. UTILITY OWNER 6-INCH SEWER MAIN: ALAMANCE BURLINGTON SCHOOL SYSTEM JAY FULLER, DIRECTOR OF FACILITIES AND MAINTENANCE

307 PRISON CAMP ROAD GRAHAM, NC 27253 OFFICE: 336-570-6482

EMAIL: JAY_FULLER@ABSS.K12.NC.US

PROJECT TYPICAL SEWER DETAILS





UTILITY CONSTRUCTION

VISIONS

