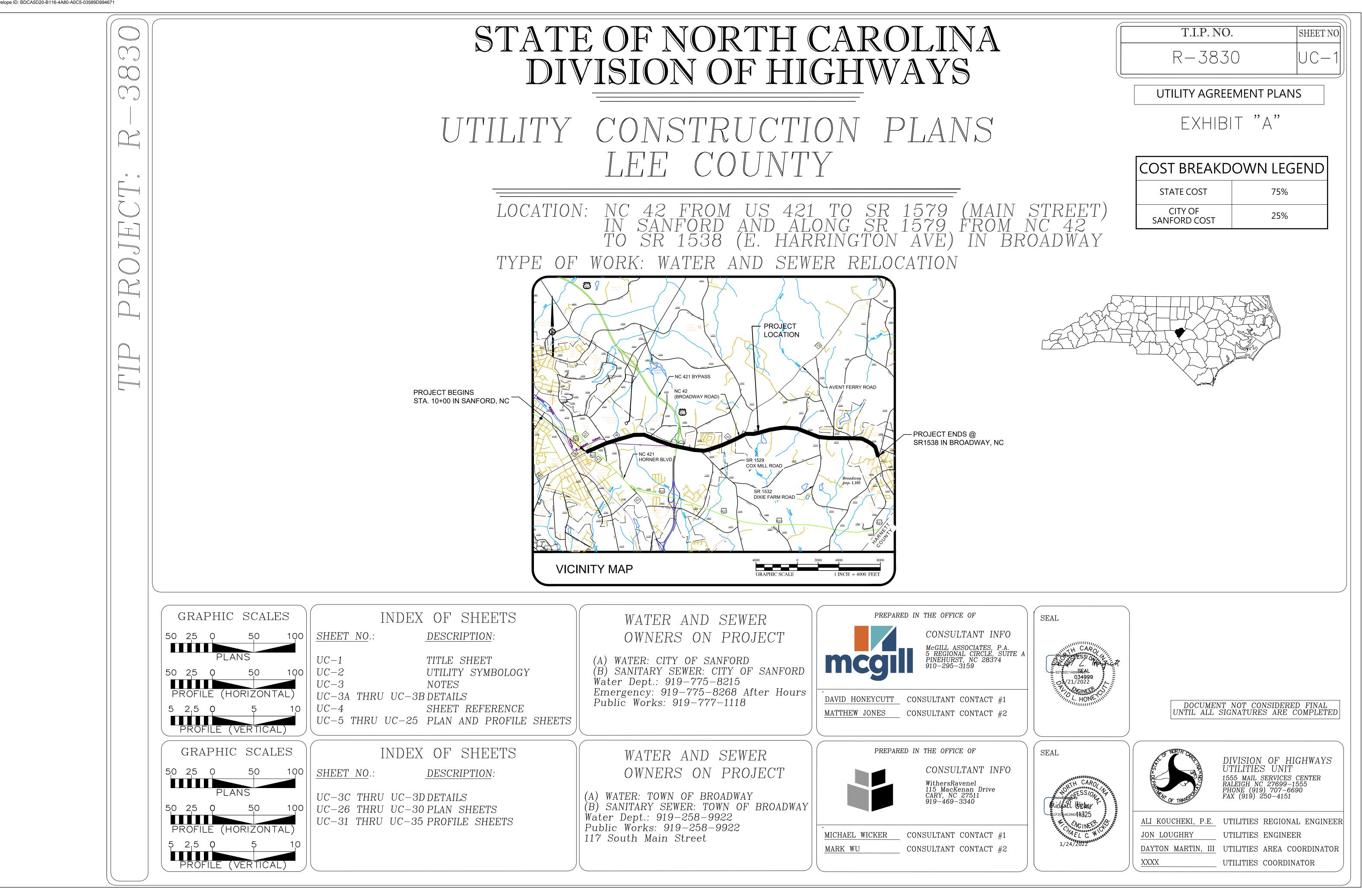
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PROPOSED WATER SYMBOLS

Water Line (Sized as Shown)
11 1/4 Degree Bend
22 1/2 Degree Bend
45 Degree Bend +×
90 Degree Bend
Plug
Tee · · · · · · · · · · · · · · · · · ·
Cross ++++
Reducer
Gate Valve
Butterfly Valve
Tapping Valve
Line Stop
Line Stop with Bypass
Blow Off
Fire Hydrant
Relocate Fire Hydrant
Remove Fire Hydrant REM FH
Water Meter
Relocate Water Meter
Remove Water Meter
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)		- — — S— — –	- — — S
Force Main Sewer Line (Sized as Shown)	· · · · · · · · · · · · · · · · · · ·	— — FM — — –	— — — FM ——
Manhole (Sized per Note)	• • • • • • • • • • • • • • • • • • • •		
Sewer Pump Station	· · · · · · · · · · · · · · · · · · ·		

REV: 2/1/2012

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DIVISION OF HICH	WAVS		
TIRS DIAN SHRPT	SVMROIS		
PROPOSED MISCE	LLANOUS UTILITIES SYMBOLS		
Power Pole 6	Thrust Block	I	
Telephone Pole ••••••••••••••••••••••••••••••••••••	Air Release Valve	AR ●	
Joint Use Pole	Utility Vault	UV.	
Telephone Pedestal	Concrete Pier	СР	
Utility Line by Others (Type as Shown)	– Steel Pier	SP	
Trenchless Installation	– Plan Note Plan Note		
Encasement by Open Cut	Pay Item Note	PAY ITEM	
Encasement			

EXISTING UTILITIES SYMBOLS

Power Pole	•
Telephone Pole	-•-
Joint Use Pole	-
Utility Pole	•
Utility Pole with Base	
H-Frame Pole	••
Power Transmission Line Tower	T
Water Manhole	8
Power Manhole	Ø
Telephone Manhole	Ð
Sanitary Sewer Manhole	•
Hand Hole for Cable	Η
Power Transformer	
Telephone Pedestal	T
CATV Pedestal	C
Gas Valve	\$
Gas Meter	¢
Located Miscellaneous Utility Object	\odot
Abandoned According to Utility Records	AATUR
End of Information	E.O.I.

*Undergrou
*Undergrou
Abovegrou
*Undergrou
Abovegrou
*Undergrou
Abovegrou
*Undergrou
Undergrou
SUE Test H
Water Mete
Water Valv
Fire Hydrar
Sanitary Se

*For Existing Utility Line D (Type as Sho Designated (Type as Sho

Ind Power Line	— — — E — —	— — — E ——
Ind Telephone Cable	T	— — — T ——
Ind Telephone Conduit	T	— — — T ——
Ind Fiber Optics Telephone Cable	— — — FOC — —	— — — FOC —
Ind TV Cable — — — — — — — — — — — — — — — — — — —	— — — CTV— —	— — — ctv—
Ind Fiber Optics TV Cable	— — — FOC — —	— — — FOC —
Ind Gas Pipeline	G	
und Gas Pipeline ————————————————————————————————————	A/G Gas	3
Ind Water Line	— W ———	— W ———
und Water Line	A/G Water	
Ind Gravity Sanitary Sewer Line	s s	— — — s ——
und Gravity Sanitary Sewer Line	A/G Sanitar	y Sewer
Ind SS Forced Main Line ————————————————————————————————————	FM FM	
Ind Unknown Utility Line	— — — U— —	— — U——
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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 2018.

2. THE EXISTING UTILITIES BELONG TO THE CITY OF SANFORD.

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.

UTILITY CONSTRUCTION

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.

10. IN THE EVENT THAT NCDOT AND CITY OF SANFORD UTILITY DETAILS AND/OR INSTALLATION PRACTICES DO NOT MATCH THEN THE MORE STRINGENT SHALL APPLY.

PROJECT SPECIFIC NOTES:

- 1. PROPOSED WATER LINE SHALL BE D.I. (DUCTILE IRON) PIPE.
- 2. CONTRACTOR'S ATTENTION IS DIRECTED TO SECTIONS 102, 107, AND 1550 OF THE STANDARD SPECIFICATIONS CONCERNING TRENCHLESS INSTALLATION. IT IS THE 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. WATER LINES AND SEWER LINES SHALL HAVE 3'-0" MINIMUM COVER UNLESS OTHERWISE SHOWN ON THE DRAWINGS.
- 4. WATER AND SEWER LINES SHALL HAVE A MINIMUM 10' HORIZONTAL SEPARATION OR A MINIMUM 18" VERTICAL SEPARATION WITH THE WATER OVER SEWER, OR BOTH WATER AND SEWER LINES SHALL BE DUCTILE IRON PIPE 10' EITHER SIDE OF THE CROSSING.
- 5. WATER AND STORM SEWER LINES SHALL HAVE A MINIMUM 18" SEPARATION EXCEPT UNDER NCDOT STORM DRAINS WHICH SHALL HAVE 24" VERTICAL SEPARATION. IF SEPARATION IS NOT OBTAINABLE, DUCTILE IRON PIPE SHALL BE USED FOR THE WATER LINE OR A SUPPORTING MATERIAL SUCH AS FLOWABLE FILL SHALL BE INSTALLED BETWEEN THE PIPES.
- 6. SANITARY SEWER AND STORM SEWER LINES SHALL HAVE A MINIMUM 18" SEPARATION. IF SEPARATION IS NOT OBTAINABLE, DUCTILE IRON PIPE SHALL BE USED FOR THE WATER LINE OR A SUPPORTING MATERIAL SUCH AS FLOWABLE FILL SHALL BE INSTALLED BETWEEN THE PIPES.
- 7. ALL WATER MAIN INSTALLATION PROPOSED TO BE IN THE EXISTING ROADWAY SHALL BE PERFORMED BETWEEN THE HOURS OF 9 PM AND 6 AM. CONTRACTOR SHALL COORDINATE WITH CITY OF SANFORD AND NCDOT TO SCHEDULE WORK.
- 8. CONTRACTOR SHALL ENSURE THAT ALL METER BOXES, VALVE BOXES AND HYDRANTS ARE SET AT FINAL GRADE.

