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BEGIN PROJECT

TO THE LIMITS ESTABLISHED BY METHOD III. **GRAPHIC SCALES** 50 25 0 **PLANS** 50 25 0 PROFILE (HORIZONTAL) PROFILE (VERTICAL)

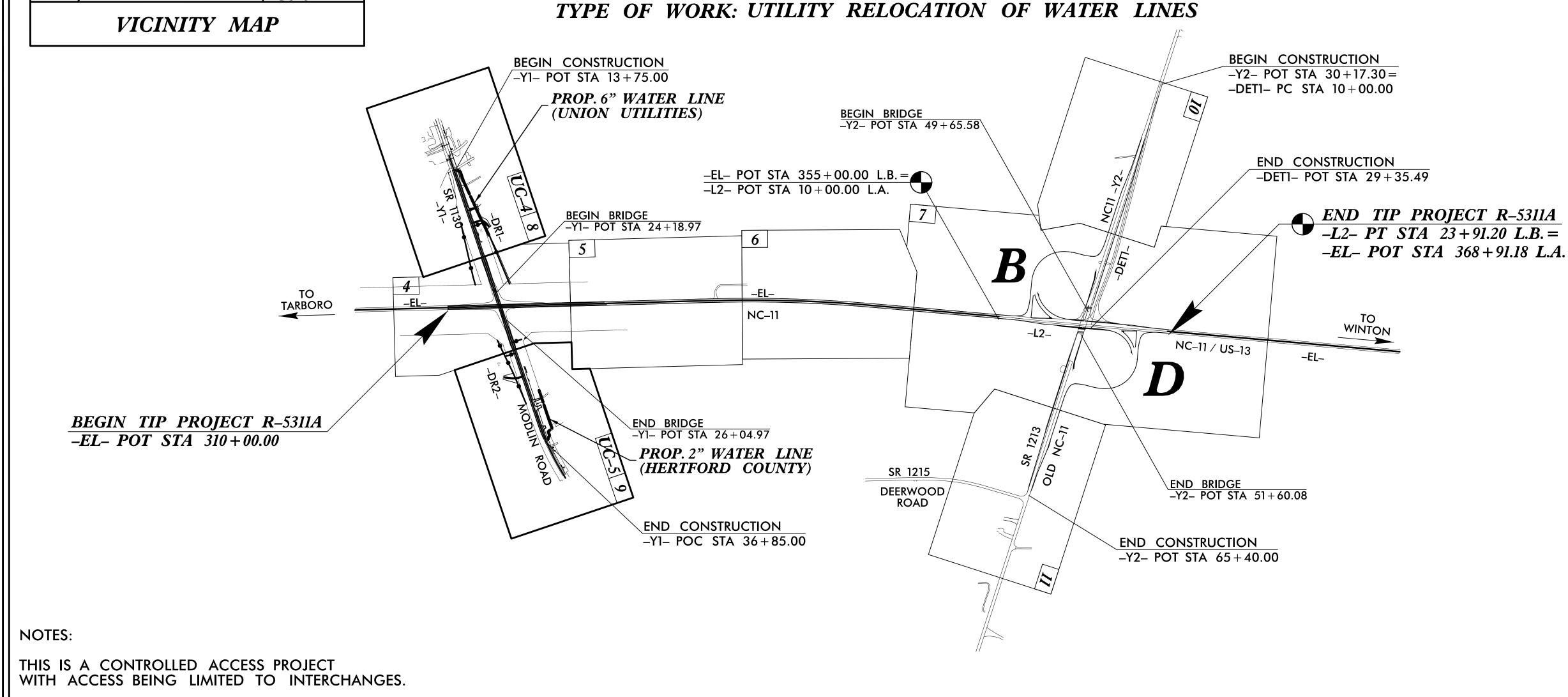
CLEARING ON THIS PROJECT SHALL BE PERFORMED

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

T.I.P. NO. SHEET NO. R-5311A UC-1

HERTFORD COUNTY

LOCATION: WEST OF MODLIN ROAD TO EAST OF NC 11/SR 1213 (OLD NC 11 ROAD). CONSTRUCT GRADE SEPARATION AT SR 1130 (MODLIN ROAD) AND INTERCHANGE AT OLD NC 11/SR 1213 (OLD NC 11 ROAD).



DOCUMENT NOT CONSIDERED FINAL UNTIL ALL SIGNATURES ARE COMPLETED

INDEX OF SHEETS

SHEET NO.: **DESCRIPTION:** TITLE SHEET UTILITY SYMBOLOGY *UC-2* **NOTES** UC-3A **DETAILS** UTILITY CONSTRUCTION SHEETS UC-4 THRU UC-5 *UC*–6 PROFILE SHEET

END PROJECT

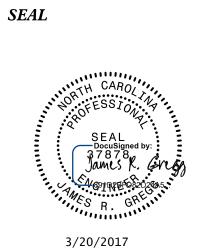
WATER AND SEWER OWNERS ON PROJECT

(A) 2" WATER - HERTFORD COUNTY (B) 6" WATER - UNION UTILITIES



THE **WOOTEN** COMPANY ENGINEERING | PLANNING | ARCHITECTURE 120 North Boylan Avenue Raleigh NC 27603-1423 919.828.0531 fax 919.834.3589

James R. Gregg, P.E. CONSULTANT CONTACT #1 CONSULTANT CONTACT #2 CONSULTANT CONTACT #3





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

Bo Hemphill, PE UTILITIES REGIONAL ENGINEER Kifah Kamil UTILITIES ENGINEER Kyle Pleasant UTILITIES AREA COORDINATOR

Larry James

UTILITIES COORDINATOR

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

UTILITIES PLAN SHEET SYMBOLS

PROPOSED WATER SYMBOLS

Water Line (Sized as Shown) 11½ 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	e	D12" SSC
(Sized as Shown)		
Force Main Sewer L	Line	12" ESS
(Sized as Shown)		12 133
Manhole		
(Sized per Note)	•	
Sewer Pump Station	nPS(SS)	

PROPOSED MISCELLANOUS UTILITIES SYMBOLS

Power Pole 6	Thrust Block	1
Telephone Pole	Air Release Valve	AR ●
Joint Use Pole	Utility Vault	UV
Telephone Pedestal	Concrete Pier	CP.
Utility Line by Others(Type as Shown)	Steel Pier	SP
Trenchless Installation	Plan Note	NOTE
Encasement by Open Cut	Pay Item Note	PAY ITEM
Encasement		PAY ITEN

EXISTING UTILITIES SYMBOLS

	LAIOTING OTTEI	TEO OTHIDOLO	
Power Pole	•	*Underground Power Line	P
Telephone Pole	-•-	*Underground Telephone Cable	Т
Joint Use Pole	-←	*Underground Telephone Conduit	TC
Utility Pole	•	*Underground Fiber Optics Telephone Cable	T FO
Utility Pole with Base		*Underground TV Cable	
H-Frame Pole	•—•	*Underground Fiber Optics TV Cable	TV FO-
Power Transmission Line Tower		*Underground Gas Pipeline	G
Water Manhole	\mathbb{W}	Aboveground Gas Pipeline	A/G Gas
Power Manhole	$^{\circ}$	*Underground Water Line	
Telephone Manhole	\bigcirc	Aboveground Water Line	A/G Water
Sanitary Sewer Manhole	\oplus	*Underground Gravity Sanitary Sewer Line	
Hand Hole for Cable	H _H	Aboveground Gravity Sanitary Sewer Line	A/G Sanitary Sewer
Power Transformer	\square	*Underground SS Forced Main Line	FSS
Telephone Pedestal	T	Underground Unknown Utility Line	?UTL
CATV Pedestal		SUE Test Hole	
Gas Valve	\Diamond	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.		

UTILITY CONSTRUCTION

PREPARED IN THE OFFICE OF: PROJE	ECT REFERENCE NO.	SHEET NO.	
	R-5311A	UC-3	
DESIGNED	DESIGNED BY: JRG		
THE WOOTEN COMPANY DRAWN BY	r: TK	SEAL Docusigned by: 378788 GYUNG SEAL ARSOLOGICANIS	
ENGINEERING PLANNING ARCHITECTURE CHECKED	BY: JRG		
120 North Boylan Avenue Raleigh NC 27603-1423 919.828.0531 fax 919.834.3589 License Number. F-0115 APPROVED	BY: JRG		
VERTICAL SCALE HORIZONTAL SCALE REVISED:			
5' 0 5' 10' 25' 0 25' 50' NORTH DEPAR	CAROLINA TMENT OF PORTATION		
PHONE: ((010) 707_6600 Unles	3/20/2017 Iment Not Considered Final Iss All Signatures Completed LITY CONSTRUCTION PLANS ONLY	

UTILITY CONSTRUCTION

NCDOT GENERAL NOTES:

- 1. THE EXISTING UTILITIES BELONG TO HERTFORD COUNTY (2-INCH MAIN) AND UNION UTILITIES (6-INCH MAIN).
- 2. THE PROPOSED UTILITY CONSTRUCTION IN HERTFORD COUNTY SHALL MEET THE APPLICABLE REQUIREMENTS OF THE NC DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES" DATED JANUARY 2012.
- 3. ALL WATER LINES TO BE INSTALLED WITHIN COMPLIANCE OF THE RULES AND REGULATIONS OF THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL AND NATURAL RESOURCES, DIVISION OF WATER RESOURCES, PUBLIC WATER SUPPLY 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 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.
- 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.

NCDOT PROJECT SPECIFIC NOTES:

- 1. PROPOSED WATER LINE SHALL BE PVC SDR 21, C900 DR-18, RJDI CLASS 350 (RESTRAINED JOINT DUCTILE IRON) AS INDICATED ON THE CONSTRUCTION DRAWINGS.
- 2. CONTRACTOR'S ATTENTION IS DIRECTED TO SECTIONS 102, 107, AND 1550 OF THE STANDARD SPECIFICATIONS AND APPLICABLE HERTFORD COUNTY AND/OR UNION 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, MAY 19, 2016.

PROJECT TYPICAL WATER DETAILS

PREPARED IN THE OFFICE OF: PROJECT REFERENCE NO. SHEET NO. UC-3A R-5311A DESIGNED BY: JRG DRAWN BY: TK THE **WOOTEN** COMPANY CHECKED BY: JRG ENGINEERING | PLANNING | ARCHITECTURE 120 North Boylan Avenue Raleigh NC 27603-1423 919.828.0531 fax 919.834.3589 License Number: F-0115 APPROVED BY: JRG SEAL 25' 0 25' 50' NORTH CAROLINA DEPARTMENT OF **TRANSPORTATION** WATER LINE CONSTRUCTION JTILITIES ENGINEERING SEC. **Unless All Signatures Completed** SHOWN ON THIS SHEET PHONE: (919) 707-6690 UTILITY CONSTRUCTION FAX: (919) 250-4151

NCDOT STANDARD DETAILS:

1. 300.01 (SHEETS 1,2, AND 3)

