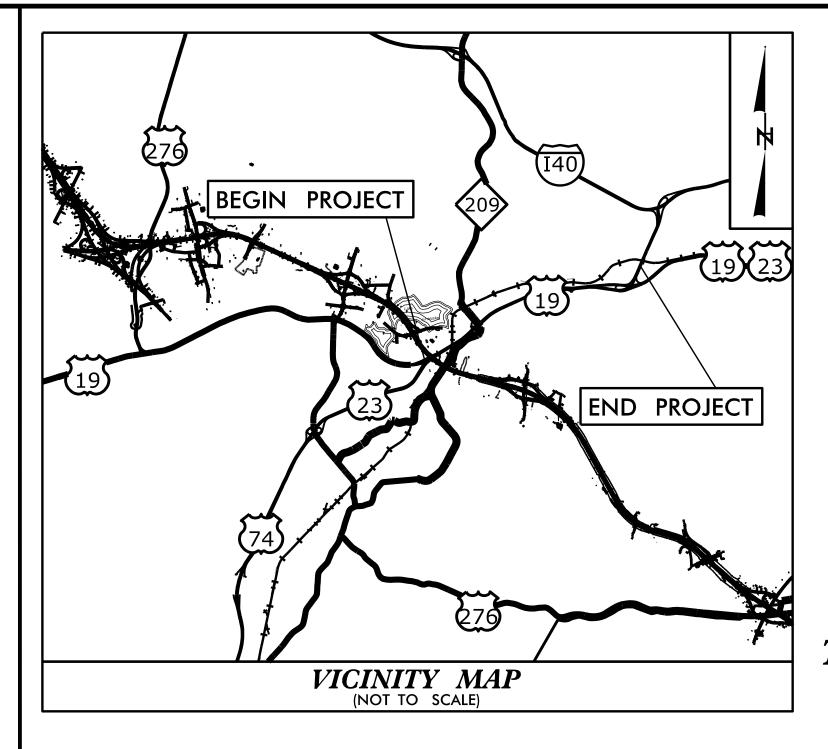
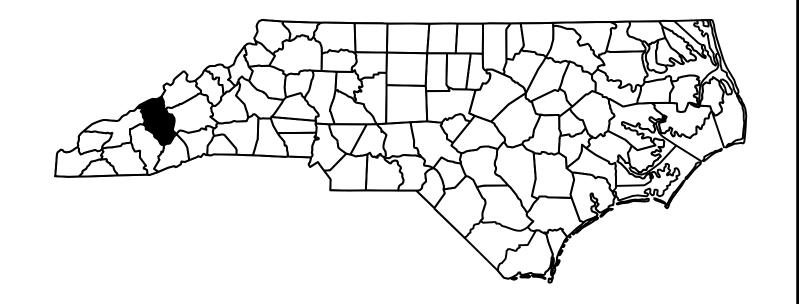
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SIGNATURE CADD FILE NAME



STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

HAYWOOD COUNTY



LOCATION: US 23/US 74/US 19

FROM EAST OF US 276 (RUSS AVE.)
TO NORTH OF US 23 (CAROLINA BLVD.)

TYPE OF WORK: ITS – COMMUNICATIONS CABLE AND CONDUIT ROUTING SYSTEM,
ONE (1) DYNAMIC MESSAGE SIGN AND FOUR (4) CCTV'S

CCTV-1

ITS-13

ITS-14

ITS-15

ITS-15

ITS-15

ITS-15

ITS-15

ITS-16

ITS-17

ITS-18

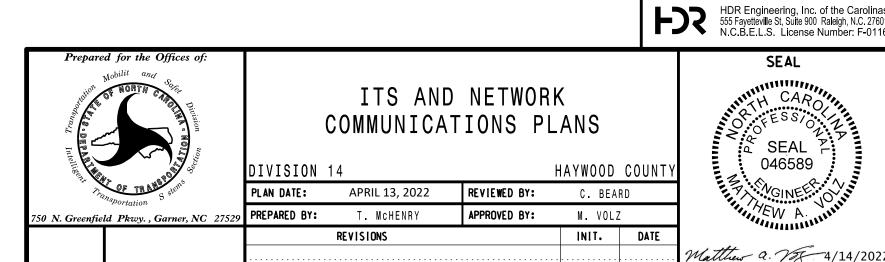
ROADWAY DESIGN UNIT – N.C. DEPARTMENT OF TRANSPORTATION – RALEIGH, N.C., DATED JANUARY 2018 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

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OI IIILGE I LANG.		
STD. NO.	TITLE	
1700.01	ELECTRICAL SERVICE OPTIONS	
1700.00	ELECTRICAL SERVICE GROUNDING	
1715.01	UNDERGROUND CONDUIT	
1716.01	JUNCTION BOXES	
1720.01	WOOD POLES	
1721.01	GUY ASSEMBLIES	
1730.01	FIBER OPTIC CABLE - SPARE CABLE STORAGE	
1730.02	FIBER OPTIC CABLE - CONDUIT INSTALLATION	
1733.01	DELINEATOR MARKERS	
1740.01	METAL POLES	

NCDOT CONTA		
Resident Engineer Division 13	Jody Lawrence	(828) 298–0080
Regional ITS Enginee	r Chad Franklin	(828) 250–3022

	INDEX OF SHEETS
ITS-1	TITLE SHEET
ITS-2	LEGEND
ITS-3	GENERAL NOTES
ITS-4 THRU ITS-19	ITS AND NETWORK COMMUNICATIONS PLANS
ITS-20	ITS DETAILS
ITS-21 & ITS-22	BLOCK DIAGRAM/SPLICE DETAILS
ITS-23 & ITS-24	TYPICAL DETAILS



CADD FILE NAME: B3186-B5898_ITS_LAYOUT.DCN

13/2022

PROJECT REFERENCE NO. ITS-3 B-3186 / B-5898

NOTES:

- 1 CONTRACTOR SHALL MEET ALL REQUIREMENTS CONTAINED IN THE NCDOT 2018 STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES AND THE B-3186/B-5898 INTELLIGENT TRANSPORTATION SYSTEMS PROJECT SPECIAL PROVISIONS FOR MATERIALS, INSTALLATION, AND OTHER RELATED ITS AND NETWORKING DETAILS.
- 2 INSTALL CONDUIT A MINIMUM OF SIX (6) FEET FROM THE EDGE OF PAVEMENT WHEN TRENCHING PARALLEL TO A ROADWAY.
- 3 MAINTAIN A MINIMUM TRENCH DEPTH OF 24 INCHES (OR 12 INCHES IN AREAS BLOCKED BY ROCK OR IMPENETRABLE OBSTRUCTIONS) BELOW FINISHED GRADE OR 6 INCHES BELOW ROADWAY SUB-BASE, WHICHEVER IS DEEPER.
- 4 IF DITCHES ARE PRESENT, INSTALL CONDUIT A MINIMUM OF FOUR (4) FEET FROM THE BOTTOM OF THE DITCH LINE WHEN TRENCHING.
- 5. THE FINAL LOCATION OF THE NCDOT ITS DEVICES MUST BE APPROVED BY THE NCDOT REGIONAL ITS ENGINEER PRIOR TO THE START OF INSTALLATION.
- 6 INSTALL EQUIPMENT CABINETS ON NEW ITS POLES.
- 7_CCTV CAMERAS ARE TO BE MOUNTED APPROXIMATELY 45 FEET ABOVE FINISHED GRADE AND SUCH THAT A MINIMUM OF 5 FEET OF CLEARANCE IS MAINTAINED BETWEEN THE CAMERA AND TOP OF THE POLE.
- 8 FINAL POWER LOCATION TO BE DETERMINED BY DUKE ENERGY. WIRE SIZE PER NEC.
- 9 INSTALL NEW GROUNDING SYSTEM FOR CCTV's AND DMS's AS SHOWN ON SHEETS ITS-23 THRU ITS-24, AND AS DESCRIBED IN THE ITS SPECIAL PROVISIONS.
- 10 CONTACT THE NCDOT REGIONAL ITS ENGINEER TO COORDINATE WITH DUKE ENERGY TO OBTAIN POWER FEED TO NEW ELECTRICAL SERVICES.
- 11 CONTRACTOR SHALL MEET NCDOT 2018 STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES SECTION 1091 ELECTRICAL MATERIALS FOR ALL CONDUIT, WIRE AND CABLE, AND ELECTRICAL JUNCTION BOX MATERIALS.

12. SEAL CONDUIT ENDS WITH MOLDABLE DUCT SEALS AT ALL JUNCTION BOX/CABINET ENTRANCES

GENERAL NOTES

<u> Division 14 ___ Haywood County</u> APRIL 13, 2022 REVIEWED BY: C. BEARD PREPARED BY: T. MCHENRY

APPROVED BY: M. VOLZ

Watthew a. Vot 4/14/2022

DOCUMENT NOT CONSIDERED

HDR Engineering, Inc. of the Carolinas 555 Fayetteville St, Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-0116

CADD FILE NAME: B3186-B5898_ITS_LAYOUT.DGN

PROJECT REFERENCE NO. SHEET NO. NOTE: NO ITS
WORK ON THIS
SHEET. FOR
INFORMATION
ONLY. B-3186 / B-5898 ITS-4 BEGIN TIP PROJECT B-3186/B-5898
-L- STA. 15 + 00.00 US 74/GREAT SMOKY MOUNTAINS EXPRESSWAY DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED ITS, COMMUNICATIONS AND CABLE ROUTING PLANS Division 14 Haywood County PLAN DATE: APRIL 13, 2022 REVIEWED BY: C. BEARD PREPARED BY: T. MCHENRY APPROVED BY: M. VOLZ REVISIONS HDR Engineering, Inc. of the Carolinas 555 Fayetteville St, Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-0116 Matthew a. Vog 4/14/2022 SIGNATURE DATE CADD FILE NAME: B3186-B5898_ITS_LAYOUT.DGN

