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**TIP PROJECT: HI-0007**

**CONTRACT: C204734**

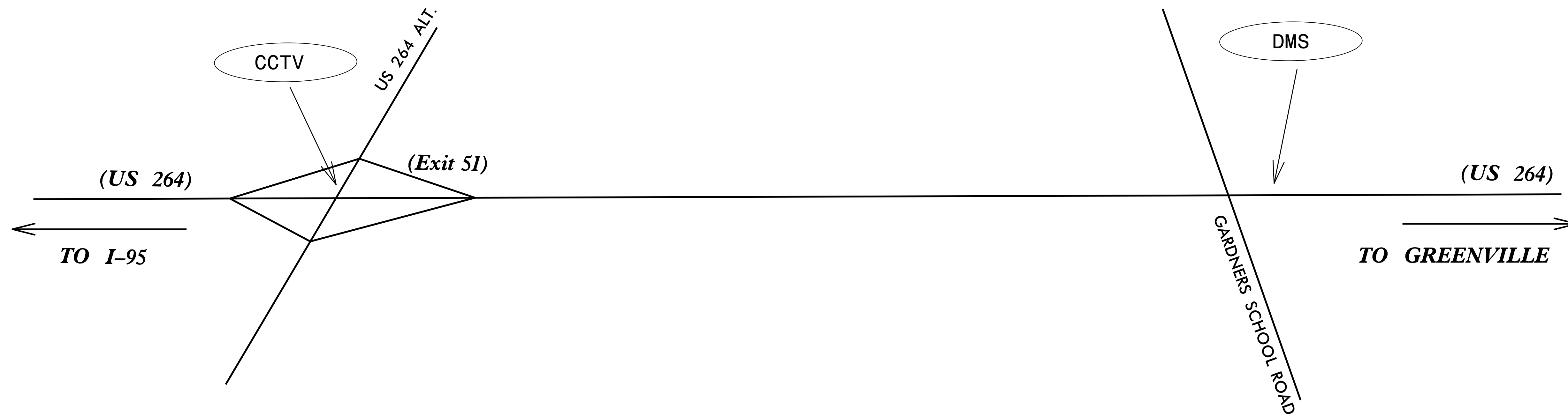
STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**WILSON COUNTY**

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.
N.C.	HI-0007	ITS-1
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION
49983.3.1		CONST.

**LOCATION: EASTBOUND US 264 AT EXIT 51  
AND NEAR MM 52**

**TYPE OF WORK: REMOVE AND DISPOSE OF EXISTING CCTV, DMS AND POWER  
SERVICE EQUIPMENT, INSTALL NEW NEW CCTV AND DMS ON  
EXISTING CCTV WOOD POLE AND EXISTING PEDESTAL STRUCTUE,  
INSTALL NEW ELECTRICAL SERVICE EQUIPMENT**



2018 STANDARD SPECIFICATIONS

PROJECT LENGTH  
PROJECT LENGTH = 0.0 MILES

LETTING DATE:  
August 16, 2022

INDEX OF SHEETS  
SHEET ITS 1 ..... TITLE SHEET  
SHEET ITS 2-3 ..... ITS PLANS  
SHEET ITS 4 ..... TYPICAL DETAILS

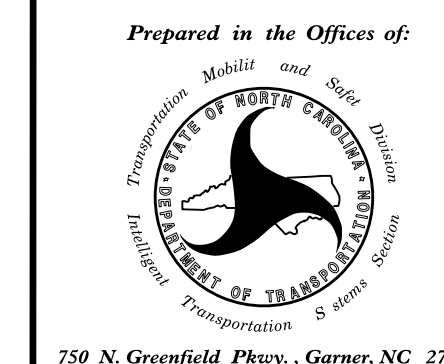
**ROADWAY STANDARD DRAWINGS**

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" 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:

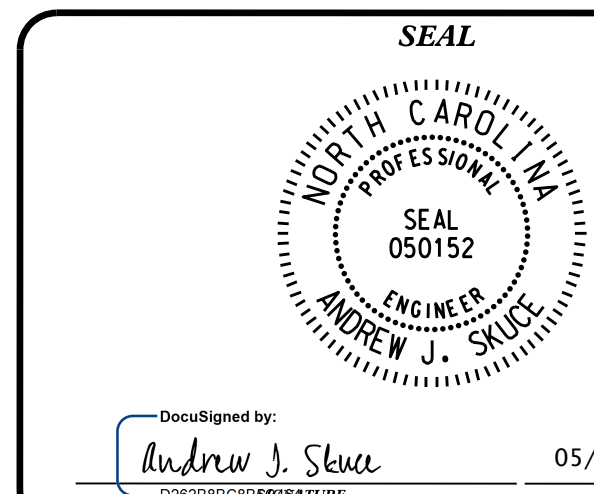
STD. NO.	TITLE
1101.02	TEMPORARY LANE CLOSURES
1101.03	TEMPORARY ROAD CLOSURES
1101.04	TEMPORARY SHOULDER CLOSURES
1700.01	ELECTRICAL SERVICE OPTIONS
1700.02	ELECTRICAL SERVICE GROUNDING
1715.01	UNDERGROUND CONDUIT-TRENCHING

2018 STANDARD SPECIFICATION

**NCDOT CONTACT:**  
**TRANSPORTATION MOBILITY AND SAFETY**  
M. M. MCDIARMID, P.E., CPM  
STATE TRANSPORTATION SYSTEMS  
MANAGEMENT & OPERATIONS ENGINEER

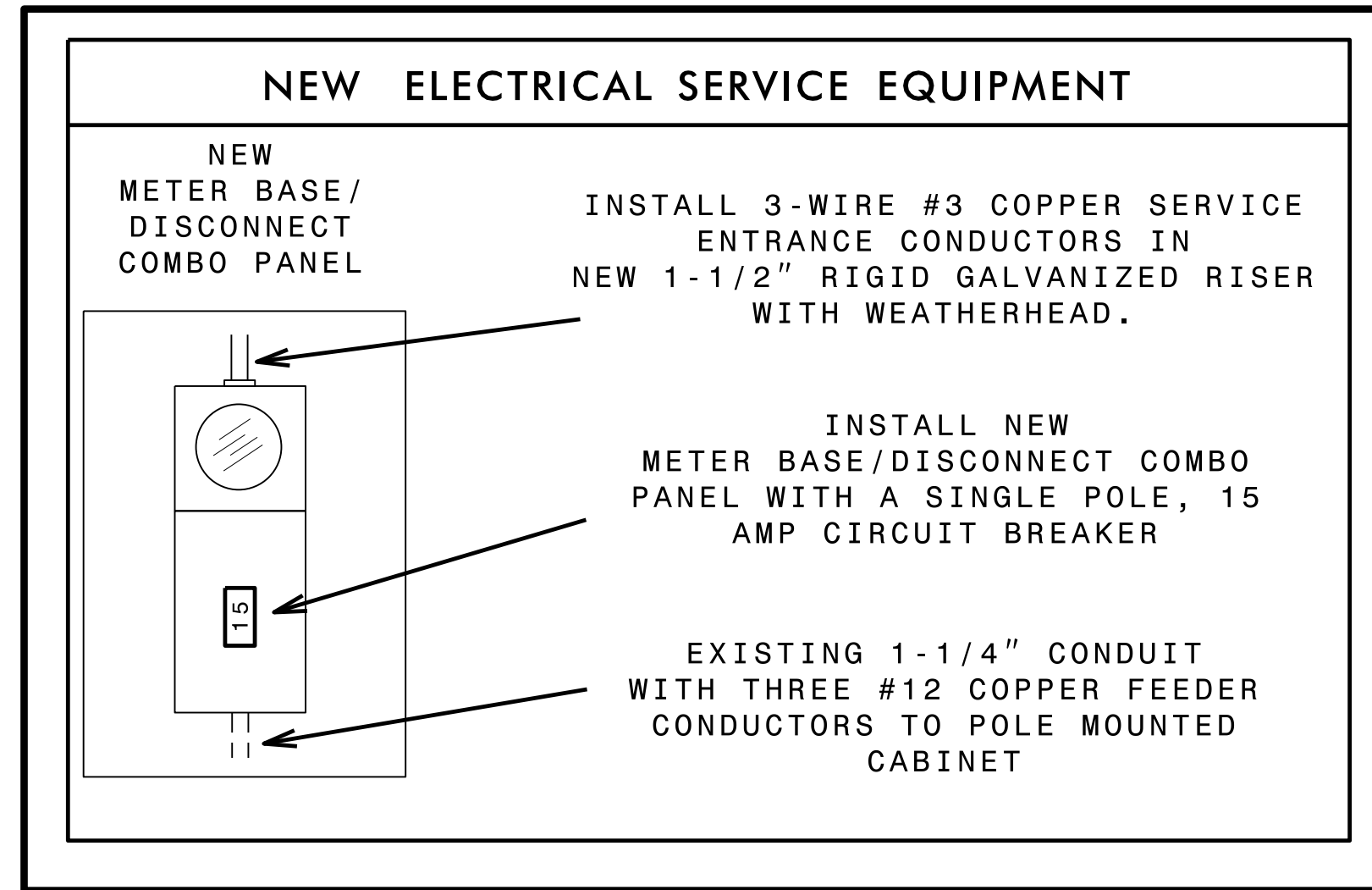


**ENGLISH**  
ALL DIMENSIONS IN THESE  
PLANS ARE IN FEET  
UNLESS OTHERWISE NOTED



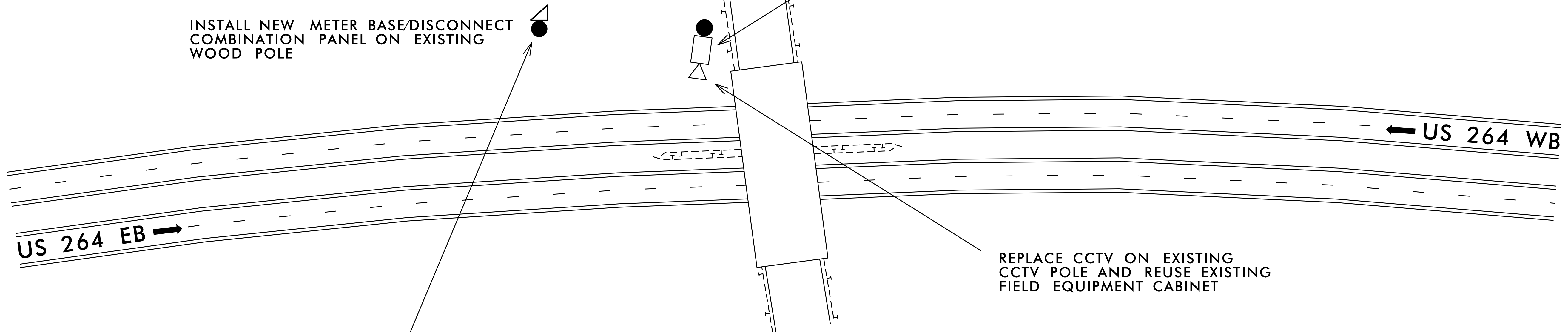
# CCTV GPS COORDINATES

35° 40.363 N  
77° 48.333 W



**INSTALL THE FOLLOWING**

QUANTITY	DESCRIPTION
1	DIGITAL CCTV CAMERA ASSEMBLY



**MODIFY THE FOLLOWING**

QUANTITY	DESCRIPTION
1	METER BASE/DISCONNECT COMBINATION PANEL
1	1 1/2" RISER WITH WEATHERHEAD

**NOTE:**  
ELECTRICAL SERVICE DETAILS AND CONSTRUCTION METHODS DEPICT FIELD CONDITIONS AT THE TIME OF DESIGN. CONTRACTOR TO VERIFY ACTUAL CONDITIONS AT THE TIME OF CONSTRUCTION AND OBTAIN APPROVAL FROM ENGINEER PRIOR TO MAKING ANY CHANGES.

**NOTES**

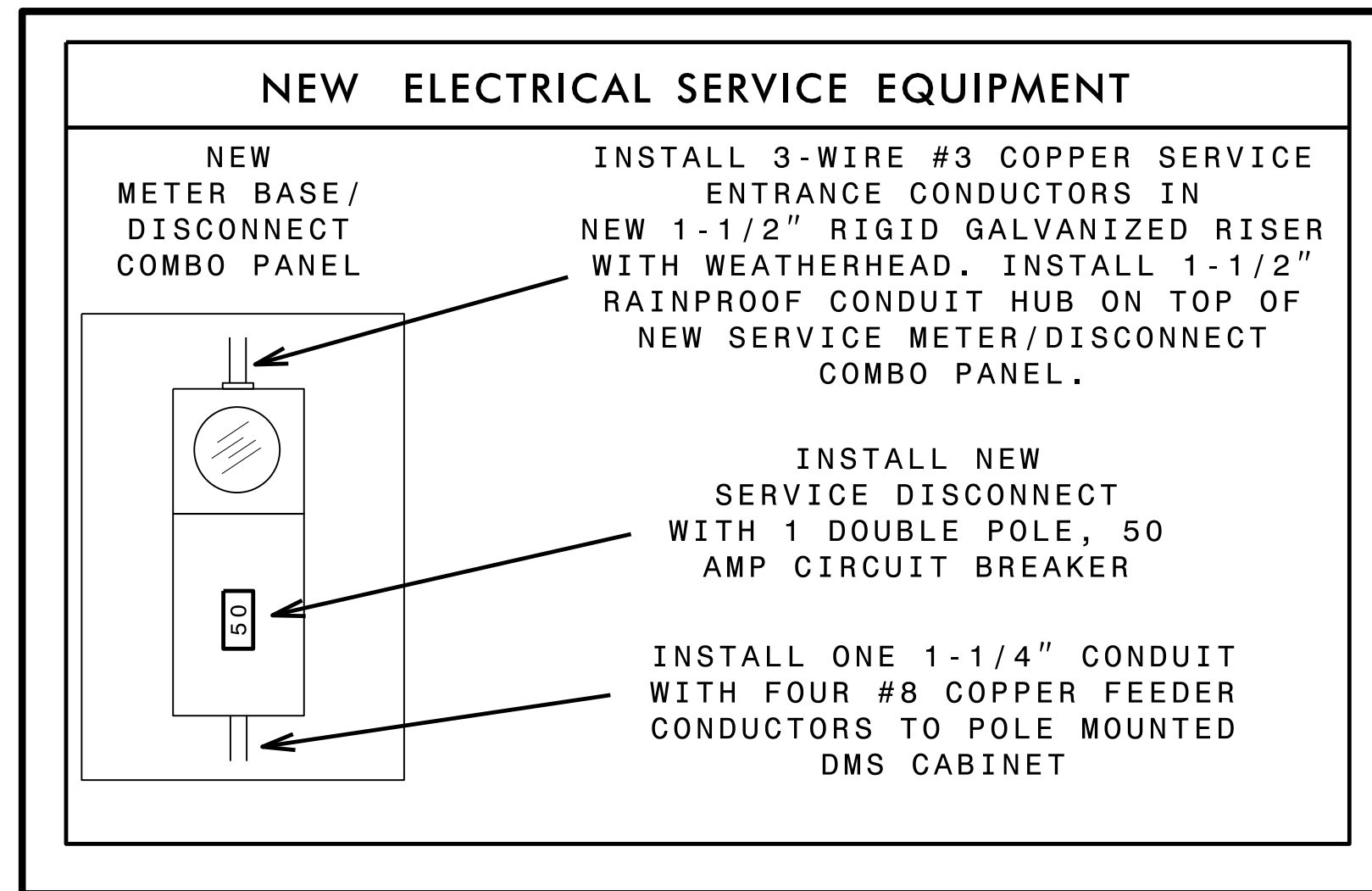
1. MOUNT CAMERA 45' ABOVE GRADE.
2. PRESERVE AND REINSTALL CELL MODEM.
3. PRESERVE EXISTING POLE GROUNDING.
4. RETAIN EXISTING FEEDER CONDUCTORS TO FIELD EQUIPMENT CABINET.

**EXIT 51**

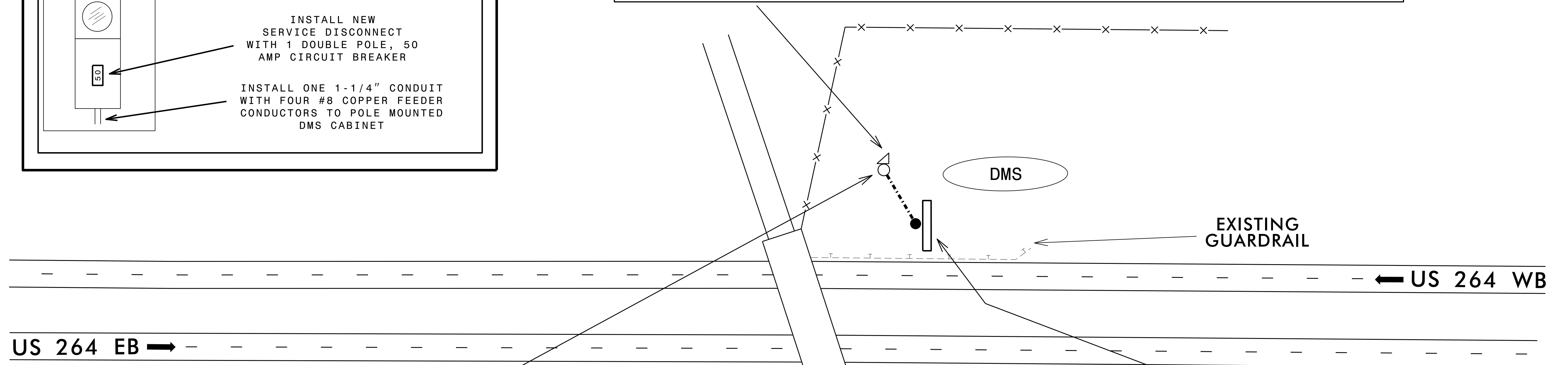
	<b>CCTV REPLACEMENT</b>		
	DIVISION 04 WILSON CO. WILSON PLAN DATE: MAY 2022 REVIEWED BY: G.A. GREEN PREPARED BY: L.E. NEAL REVIEWED BY:		
750 N. Greenfield Pkwy., Garner, NC 27529 	REVISIONS INIT. DATE	DocuSigned by: Andrew J. Sklave 06/21/2022	SEAL NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 050152 ANDREW J. SKLAVE

# DMS GPS COORDINATES

35° 40.278 N  
77° 46.929 W



INSTALL THE FOLLOWING	
QUANTITY	DESCRIPTION
1	WOOD POLE
1	METER BASE/DISCONNECT COMBINATION PANEL
1	1 1/2" RISER WITH WEATHERHEAD
3	5/8" x 10' GROUNDING ELECTRODE
30'	#4 SOLID BARE COPPER GROUNDING CONDUCTOR
45'	UNPAVED TRENCHING (1, 2")
55'	4-WIRE COPPER FEEDER CONDUCTORS
1	EQUIPMENT CABINET DISCONNECT



REMOVE THE FOLLOWING	
QUANTITY	DESCRIPTION
1	REMOVAL OF EXISTING DMS ELECTRICAL SERVICE
1	REMOVAL & DISPOSAL OF EXISTING DMS COMPONENTS

INSTALL THE FOLLOWING	
QUANTITY	DESCRIPTION
1	DYNAMIC MESSAGE SIGN (TYPE 2C)

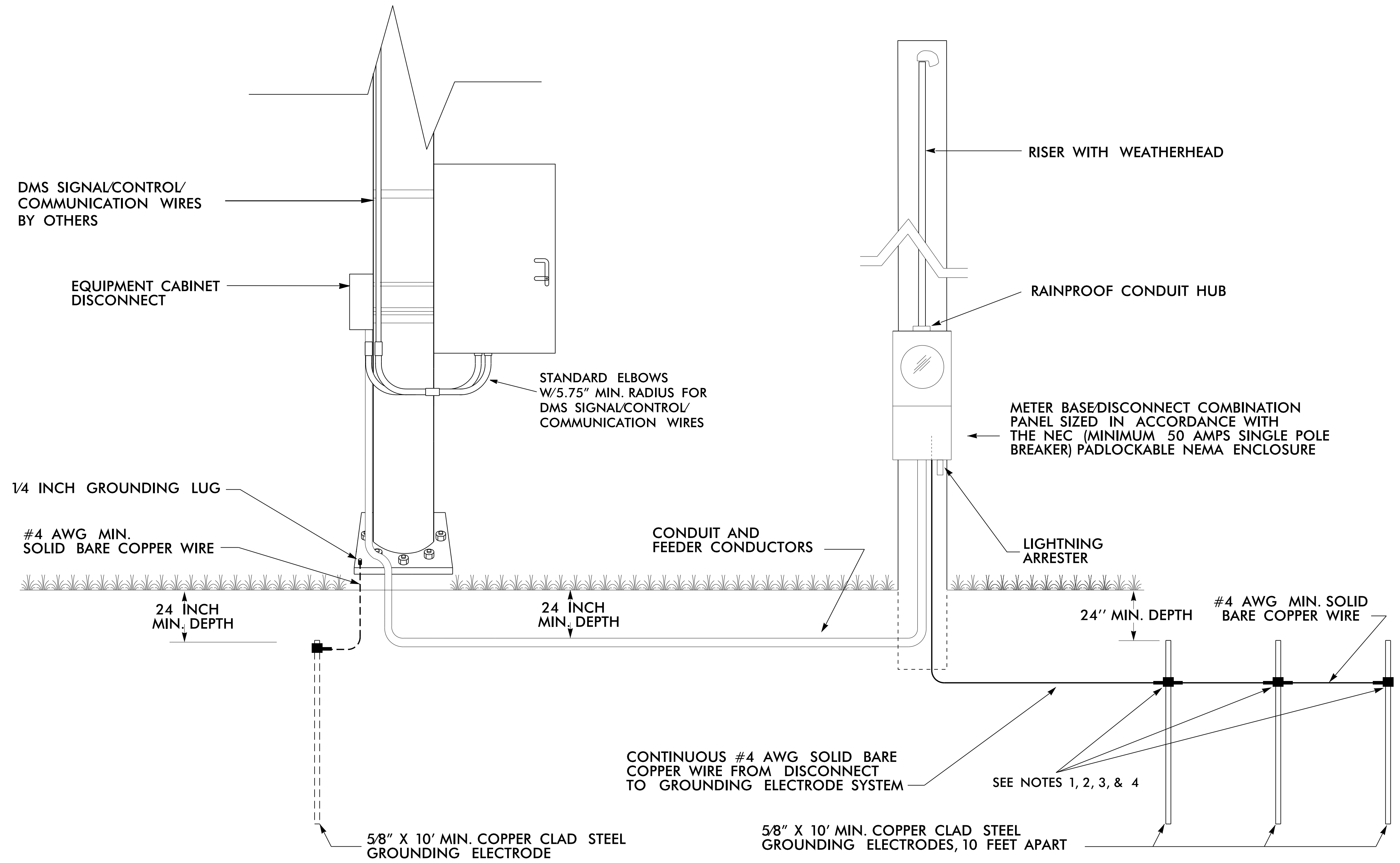
NOTE:  
ELECTRICAL SERVICE DETAILS AND CONSTRUCTION METHODS DEPICT FIELD CONDITIONS AT THE TIME OF DESIGN. CONTRACTOR TO VERIFY ACTUAL CONDITIONS AT THE TIME OF CONSTRUCTION AND OBTAIN APPROVAL FROM ENGINEER PRIOR TO MAKING ANY CHANGES.

### NOTES

1. INSTALL NEW DMS ON EXISTING DMS PEDESTAL STRUCTURE.
2. INSTALL NEW DMS POLE MOUNTED CABINET ON EXISTING DMS PEDESTAL STRUCTURE.
3. INSTALL NEW GROUNDING SYSTEM AS SHOWN ON SHEET ITS-4 AND AS DESCRIBED IN THE PROJECT SPECIAL PROVISIONS.

NEAR MM 52 EAST OF US 264 BUS.

	DMS REPLACEMENT		
	DIVISION 04 WILSON CO. WILSON PLAN DATE: MAY 2022 REVIEWED BY: G.A. GREEN PREPARED BY: L.E. NEAL REVIEWED BY:		
	REVISIONS INIT. DATE	DISIGNED BY: Andrew J. Skiles DATE: 06/21/2022	SEAL PROFESSIONAL ENGINEER ANDREW J. SKILES 050152



**NOTES**

1. INSTALL A MINIMUM OF THREE (3) GROUNDING ELECTRODES SPACED A MINIMUM OF 10 FEET APART. ENSURE THAT EXISTING UNDERGROUND FACILITIES ARE NOT DAMAGED DURING INSTALLATION.
2. TEST GROUNDING SYSTEM USING AN APPROVED METHOD. SYSTEM SHOULD MEASURE TWENTY (20) OHMS OR LESS. ADDITIONAL GROUNDING ELECTRODES SHALL BE INSTALLED AS DIRECTED BY THE ENGINEER TO MEET THIS REQUIREMENT.
3. MECHANICALLY CRIMP ALL CONNECTIONS TO GROUND RODS USING AN IRREVERSIBLE COMPRESSION TOOL.
4. INSTALL MARKER TAPE DIRECTLY ABOVE ALL GROUNDING ELECTRODES AND CONDUCTORS AT A DEPTH OF 12 INCHES.
5. REMOVE BONDING JUMPER IN EQUIPMENT CABINET IF INSTALLED BETWEEN AC NEUTRAL AND EQUIPMENT GROUND.
6. BOND ALL RIGID GALVANIZED STEEL CONDUITS ENTERING THE CABINET TO "EQUIPMENT GROUND".
7. INSTALL CONDUIT BETWEEN DISCONNECT AND CABINET.
8. ENSURE EQUIPMENT GROUND IS ELECTRICALLY BONDED TO CABINET.

	<p><b>DYNAMIC MESSAGE SIGN WITH AERIAL ELECTRICAL SERVICE TYPICAL DETAIL</b></p>		<p>SEAL</p>
	<p>DIVISION 04 WILSON COUNTY WILSON</p> <p>PLAN DATE: MAY 2022 REVIEWED BY: G.A. GREEN</p> <p>PREPARED BY: L.E. NEAL REVIEWED BY:</p>	<p>REVISIONS</p> <p>INIT. DATE</p>	
<p>750 N. Greenfield Pkwy., Garner, NC 27529</p> <p>SCALE: 0 N/A</p>		<p>DocuSigned by: Andrew J. Skuse</p> <p>CADD Filename:</p>	