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TIP PROJECT: HI-0007

CONTRACT: C204734

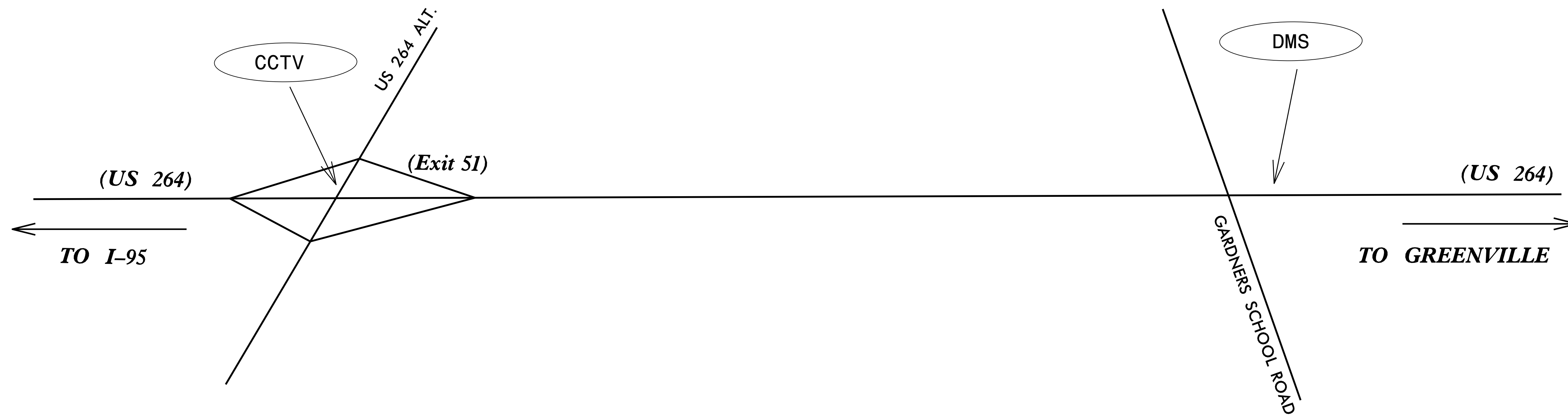
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

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

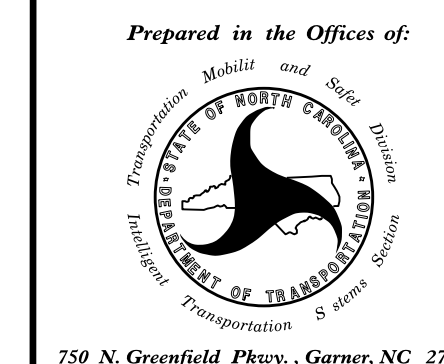
ROADWAY STANDARD DRAWINGS

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



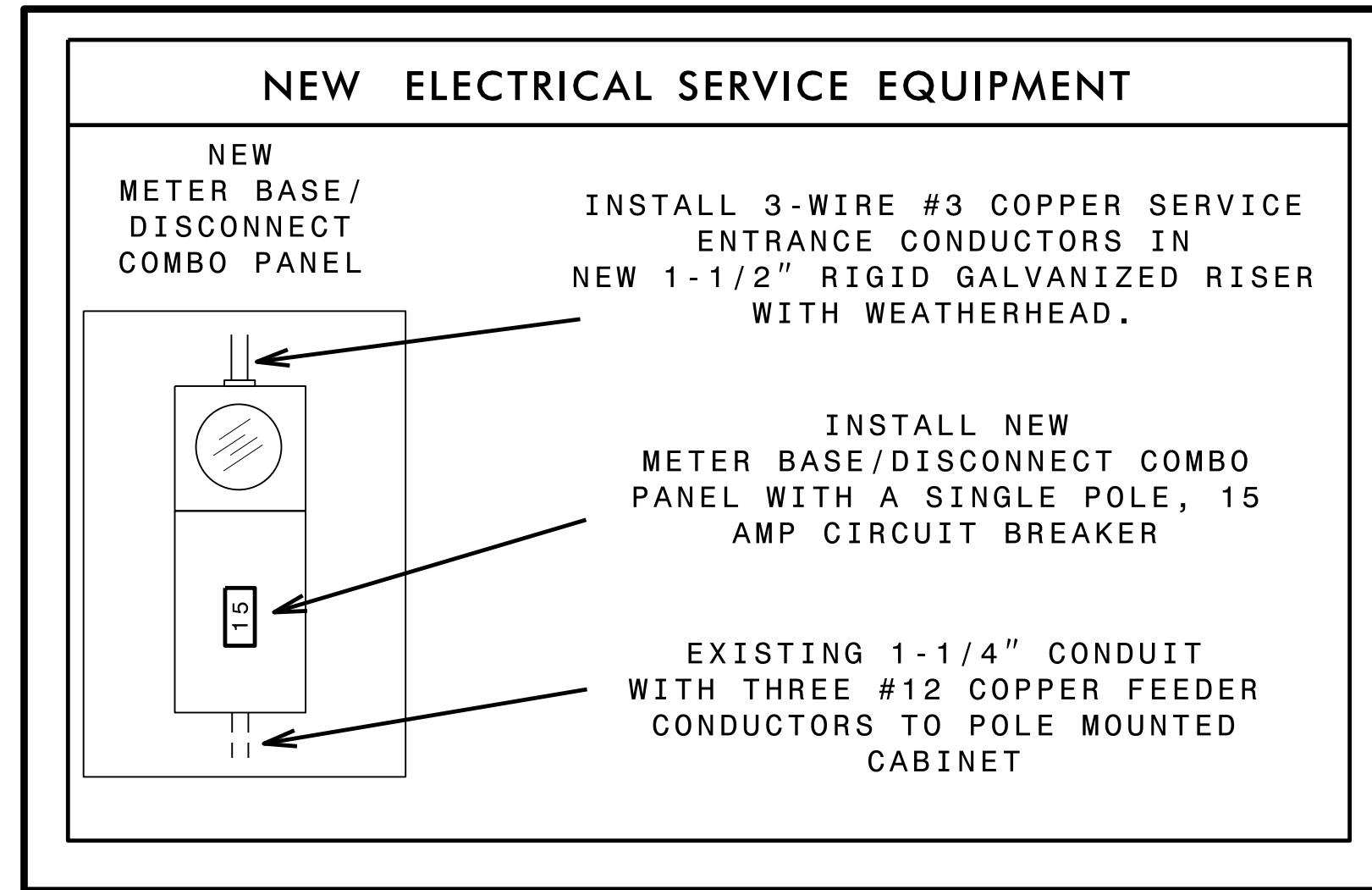
ENGLISH
ALL DIMENSIONS IN THESE
PLANS ARE IN FEET
UNLESS OTHERWISE NOTED

SEAL

DocuSigned by:
Andrew J. Skuce 05/09/2022
DATE

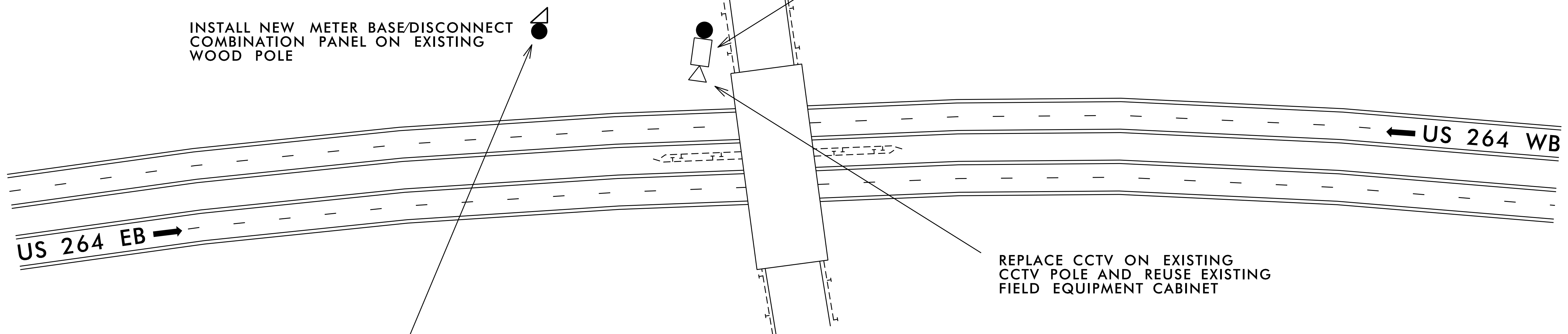
CCTV GPS COORDINATES

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

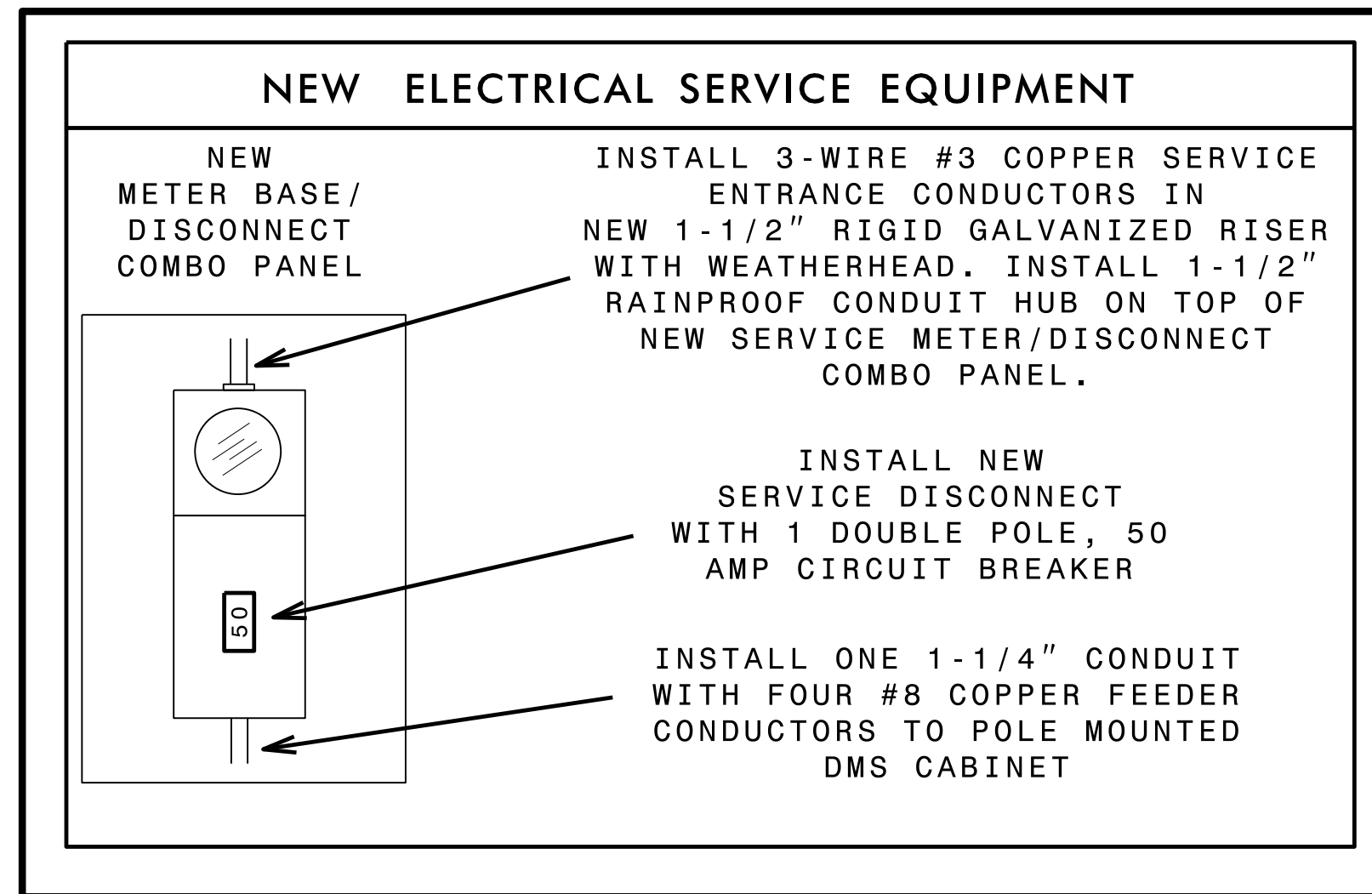
1. MOUNT CAMERA 45' ABOVE GRADE.
2. PRESERVE AND REINSTALL CELL MODEM.
3. PRESERVE EXISTING POLE GROUNDING.
4. RETAIN EXISTING FEEDER CONDUCTORS TO FIELD EQUIPMENT CABINET.

EXIT 51

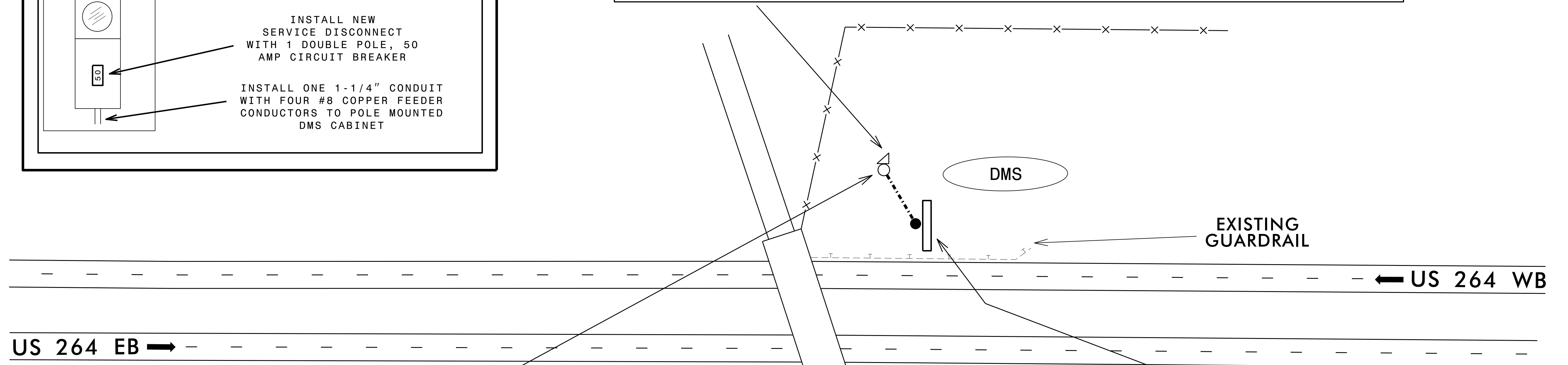
| | | | |
|---|---|--|--|
| | CCTV REPLACEMENT | | |
| | DIVISION 04 WILSON CO. WILSON PLAN DATE: MAY 2022 REVIEWED BY: G.A. GREEN PREPARED BY: L.E. NEAL REVIEWED BY: | | |
| 750 N. Greenfield Pkwy., Garner, NC 27529 SCALE: 0 N/A | REVISIONS: _____ INIT. DATE _____ _____ | DocuSigned by: Andrew J. Sklave 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) |

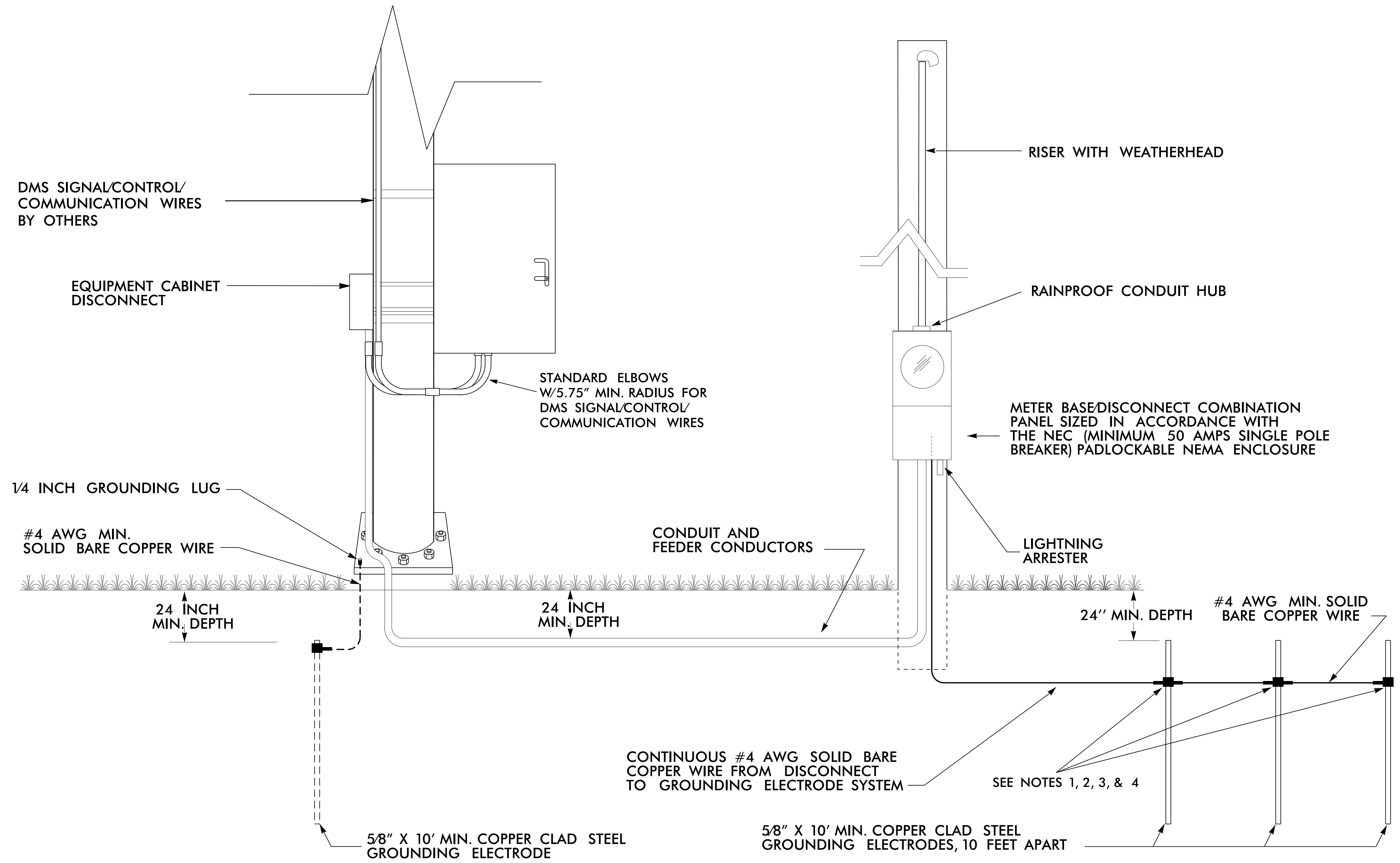
NOTE:
ELECTRICAL SERVICE DETAILS AND CONSTRUCTION METHODS DEPICT FIELD CONDITIONS AT THE TIME OF DESIGN. CONTRACTOR TO VERIFY ACTUAL CONDITIONS AT THE TIME OF CONSTRUCTION AND OBTAIN APPROVAL FROM ENGINEER PRIOR TO MAKING ANY CHANGES.

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: <i>Andrew J. Skiles</i> 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>DYNAMIC MESSAGE SIGN WITH AERIAL ELECTRICAL SERVICE TYPICAL DETAIL</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>750 N. Greenfield Pkwy., Garner, NC 27529</p> | | <p>REVISIONS INIT. DATE</p> | |
| <p>SCALE: 0 N/A</p> | | <p>DocuSigned by: Andrew J. Skuse 05/09/2022</p> | |
| <p>CADD Filename:</p> | | <p>SIGNATURE DATE</p> | |