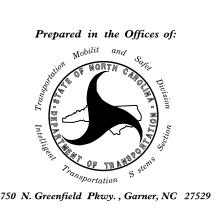
STATE PROJECT REFERENCE NO. STATE STATE OF NORTH CAROLINA STATE PROJ. NO. DIVISION OF HIGHWAYS 35494.3.1 MARTIN COUNTY LOCATION: US 17 BETWEEN SR 1420 (BEAR GRASS RD) AND SR 1106 (JOE MOBLEY RD / SMITHWICK CREEK RD) AT -L- STA SR 1106 (Joe Mobley Rd.) 306 + 00TYPE OF WORK: INSTALL BACK-TO-BACK DYNAMIC MESSAGE SIGNS IN MEDIAN (US 17)SR 1420 (W Bear Grass Rd.) SR 1106 (Smithwick Creek Rd.) (US 17) **DMS-1** DMS 00 0 DMS-2 044 SR 1420 (Bear Grass Rd.) ROADWAY STANDARD DRAWINGS 2018 STANDARD SPECIFICATIONS THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY PROJECT LENGTH STANDARD DRAWINGS" ROADWAY DESIGN UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2018 ARE PROJECT LENGTH = 0.0 MILESAPPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE LETTING DATE: CONSIDERED A PART OF THESE PLANS: **DECEMBER** 21, 2021 2018 STANDARD SPECIFICATION STD. NO. TITLE INDEX OF SHEETS 1101.02_____TEMPORARY LANE CLOSURES SHEET ITS 1 TITLE SHEET 1101.03_____TEMPORARY ROAD CLOSURES SHEET ITS 2 CONSTRUCTION NOTES 1101.04_____TEMPORARY SHOULDER CLOSURES Prepared in the Offices of: NGLISH AND LEGEND 1700.01_____ELECTRICAL SERVICE OPTIONS **NCDOT CONTACT:** SHEET ITS 3-4 ITS PLANS 1700.02_____ELECTRICAL SERVICE GROUNDING TRANSPORTATION MOBILITY AND SAFETY SHEET ITS 5 1715.01_____TRENCHING TYPICAL DETAILS M.M. MCDIARMID, P.E., CPM 1716.01_____JUNCTION BOXES STATE TRANSPORTATION SYSTEMS ALL DIMENSIONS IN THESE 1720.01______WOOD POLES PLANS ARE IN FEET

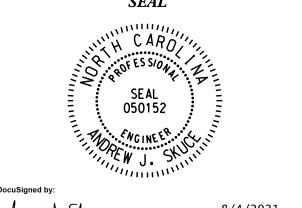
ITS-1 R-2511 F. A. PROJ. NO. DESCRIPTION CONST.

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

MANAGEMENT & OPERATIONS ENGINEER



UNLESS OTHERWISE NOTED

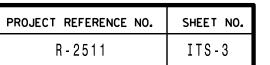


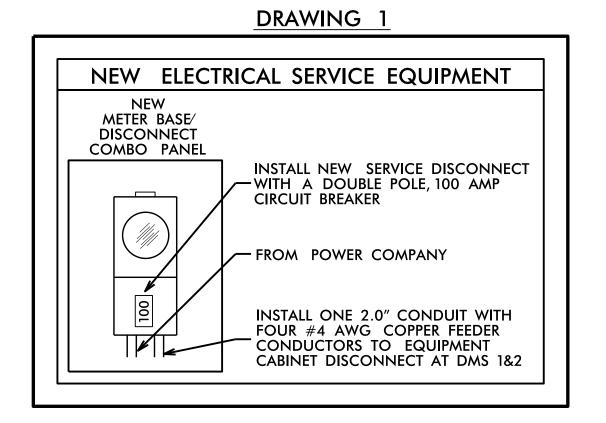
Andrew J. Skua 8/4/2021

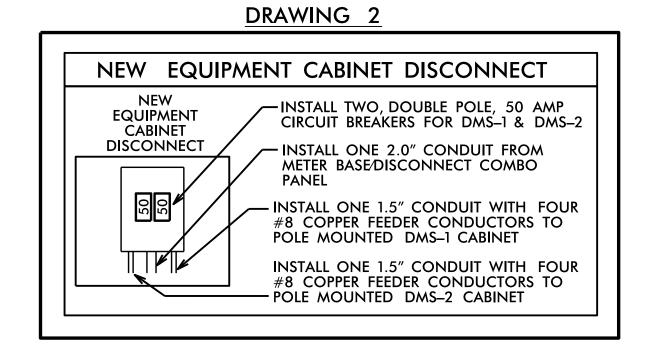
PROJECT REFERENCE NO. ITS-2 R-2511

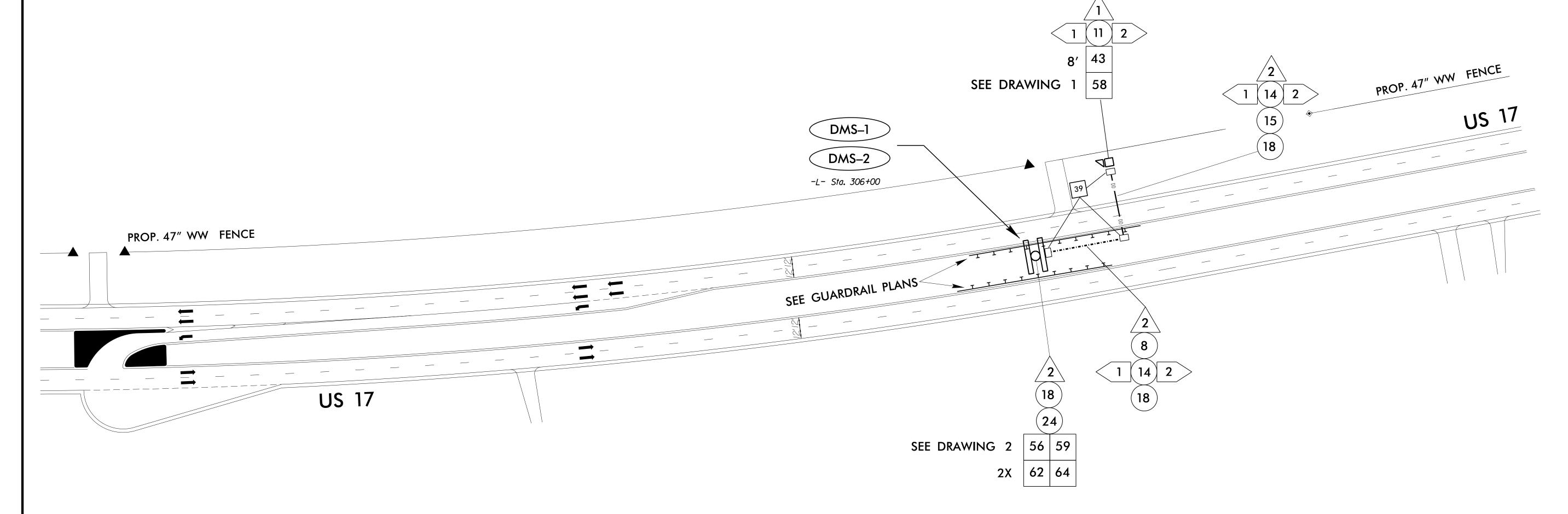
andrew J. Skua

N/A









NOTES

- 1. INSTALL ELECTRICAL SERVICE PEDESTAL NEAR THE POWER POLE AT -L- STA 307 + 00.
- 2. INSTALL DMS STRUCTURE EIGHT FEET (8') BEHIND SOUTHBOUND GUARDRAIL.
- 3. OBTAIN FINAL LOCATION APPROVAL FROM THE DIVISION TRAFFIC ENGINEER (252–482–1850) BEFORE INITIATING ANY WORK AT THIS LOCATION.
- 4. INSTALL NEW DMS, WALKWAYS, AND LADDER ON NEW DMS STRUCTURE. INSTALL NEW DMS POLE MOUNTED CABINETS ON NEW DMS STRUCTURE.
- 5. MAINTAIN A MINIMUM OF SIX (6) FEET FROM EDGE OF PAVEMENT WHEN TRENCHING PARALLEL TO THE ROADWAY. MAXIMUM JUNCTION BOX SPACING 1200' FOR FIBER OPTIC CABLE AND 150' FOR FEEDER CONDUCTORS OR AS DIRECTED BY THE ENGINEER.
- 6. INSTALL NEW GROUNDING SYSTEM AS DESCRIBED ON SHEET ITS-5 AND AS DESCRIBED IN THE PROJECT SPECIAL PROVISIONS.
- 7. SEE ROADWAY PLANS FOR GUARDRAIL DETAILS.
- 8. CONTACT DIVISION TRAFFIC ENGINEER TO REQUEST NCDOT SUPPLIED MODEMS AT LEAST EIGHT (8) WEEKS PRIOR TO INSTALLATION.

DOCUMENT NOT CONSIDERED FINAL **UNLESS ALL SIGNATURES COMPLETED**



MARTIN CO.

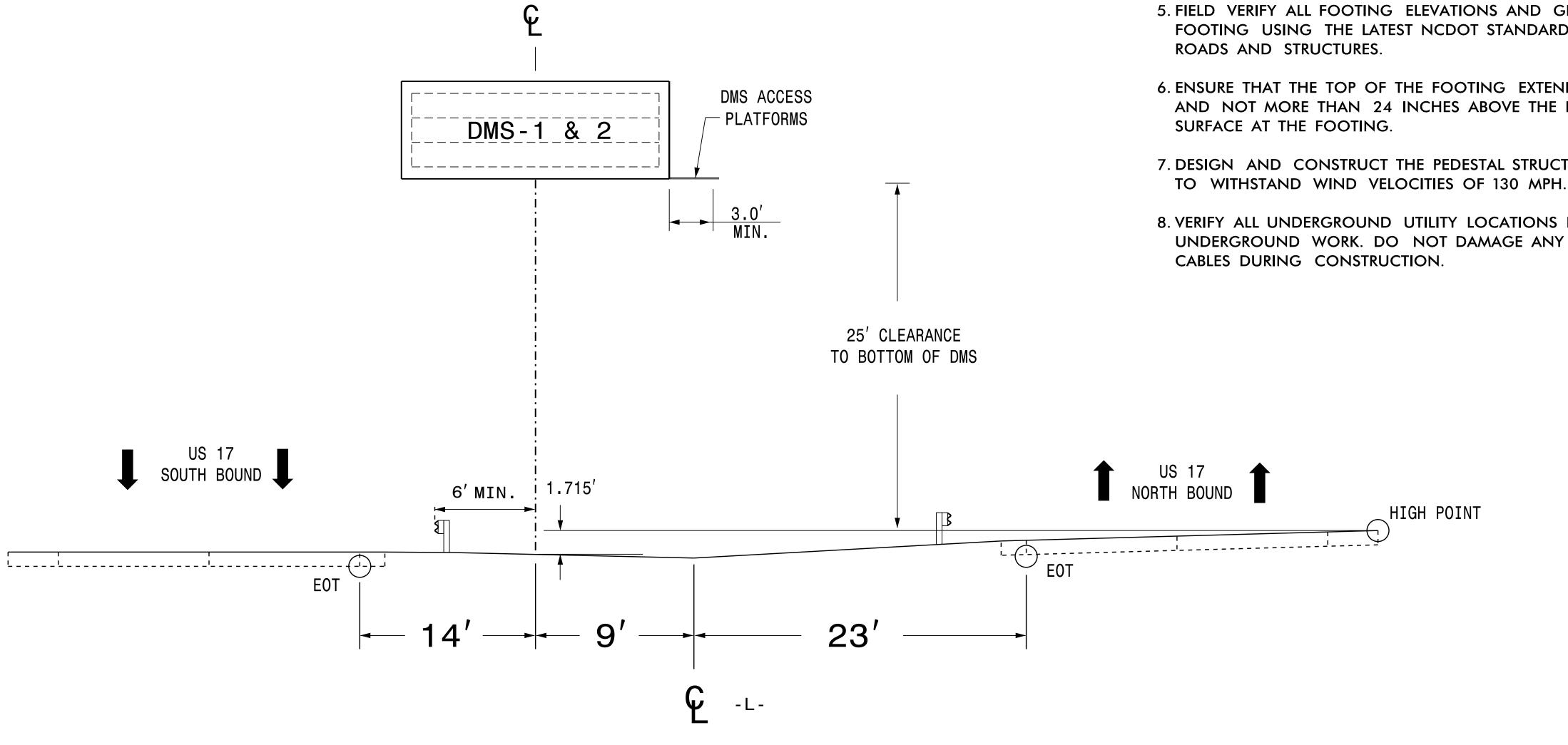
DIVISION 01 PLAN DATE: AUGUST 2021 REVIEWED BY: A.J. SKUCE, PE PREPARED BY: L.E. NEAL REVIEWED BY: REVISIONS INIT. DATE

DMS-1 & DMS-2

Andrew J. Skue DATE

PROJECT REFERENCE NO. ITS-4 R-2511

ESTIMATED DIMENSION: 27' X 10' FOR EACH DMS MAXIMUM DEADLOAD OF 5200 LBS FOR EACH DMS



NOTES

- 1. PROVIDE A FIXED LADDER LEADING TO THE ACCESS PLATFORM FOR THE DMS AS INDICATED IN THE PROJECT SPECIAL PROVISIONS.
- 2. EQUIP THE LADDER WITH A SECURITY COVER (LADDER GUARD). START THE FIRST LADDER RUNG NO MORE THAN 18 INCHES ABOVE A CONCRETE LANDING PAD. DESIGN RUNGS ON 12 INCH CENTER-TO-CENTER TYPICAL SPACING.
- 3. INSTALL A CONCRETE LANDING PAD MEASURING A MINIMUM 4 INCHES DEEP, 24 INCHES WIDE, AND 36 INCHES LONG DIRECTLY BENEATH THE LADDER.
- 4. USE ACTUAL DIMENSIONS AND WEIGHT OF THE DMS TO COMPLETE THE DESIGN OF THE DMS STRUCTURE.
- 5. FIELD VERIFY ALL FOOTING ELEVATIONS AND GROUND SLOPES AT THE FOOTING USING THE LATEST NCDOT STANDARD SPECIFICATIONS FOR
- 6. ENSURE THAT THE TOP OF THE FOOTING EXTENDS AT LEAST 6 INCHES AND NOT MORE THAN 24 INCHES ABOVE THE HIGHEST POINT OF THE GROUND
- 7. DESIGN AND CONSTRUCT THE PEDESTAL STRUCTURE AND DMS ENCLOSURE
- 8. VERIFY ALL UNDERGROUND UTILITY LOCATIONS BEFORE BEGINNING ANY UNDERGROUND WORK. DO NOT DAMAGE ANY EXISTING UTILITIES OR NCDOT

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



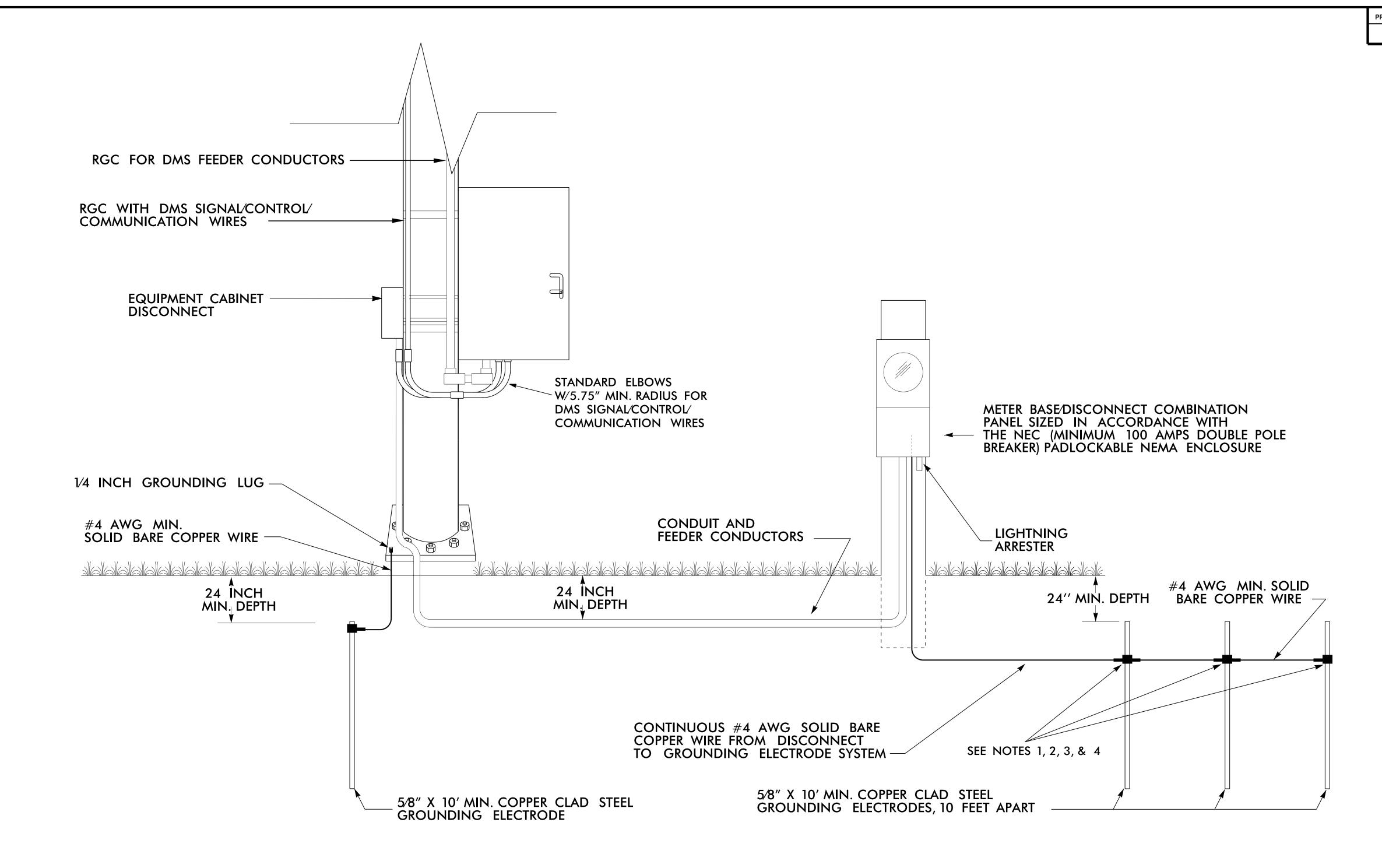
ELEVATION DRAWING DMS 1&2 -L- STA 306+00

REVISIONS

DIVISION 01 MARTIN CO. PLAN DATE: AUGUST 2021 REVIEWED BY: A.J. SKUCE, PE PREPARED BY: L.E. NEAL

INIT. DATE CADD Filename:

PROJECT REFERENCE NO. SHEET NO. R-2511 ITS-5



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.

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



N/A

DYNAMIC MESSAGE SIGN WITH UNDERGROUND ELECTRICAL SERVICE TYPICAL DETAIL

DIVISION 01 MARTIN CO.

PLAN DATE: AUGUST 2021 REVIEWED BY: A . L. SKUCE

PLAN DATE: AUGUST 2021 REVIEWED BY: A.J. SKUCE
PREPARED BY: L.E. NEAL REVIEWED BY:
REVISIONS INIT. DATE

SEAL 050152

WGINEER 8/4/2021

Docusigned by: 8/4/2021

LULYUW J. Skuu

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