# This electronic collection of documents is provided for the convenience of the user and is Not a Certified Document –

The documents contained herein were originally issued and sealed by the individuals whose names and license numbers appear on each page, on the dates appearing with their signature on that page.

This file or an individual page shall not be considered a certified document.

008	
: HII-0	
JECT	
PRO	
TII	
650	
C2046	
	11
4CT:	

STATE	OF	NO	$\mathbb{R}\mathbb{T}$	'H	CAR		INA
	SION	$\sqrt{}$	$\mathbb{F}$		JHW A	Y	S

# JOHNSTON COUNTY

STATE STATE PROJECT REFERENCE NO.

N.C. HI=0008
ITS=1

STATE PROJ. NO. DESCRIPTION
49633.3.1
CONST.

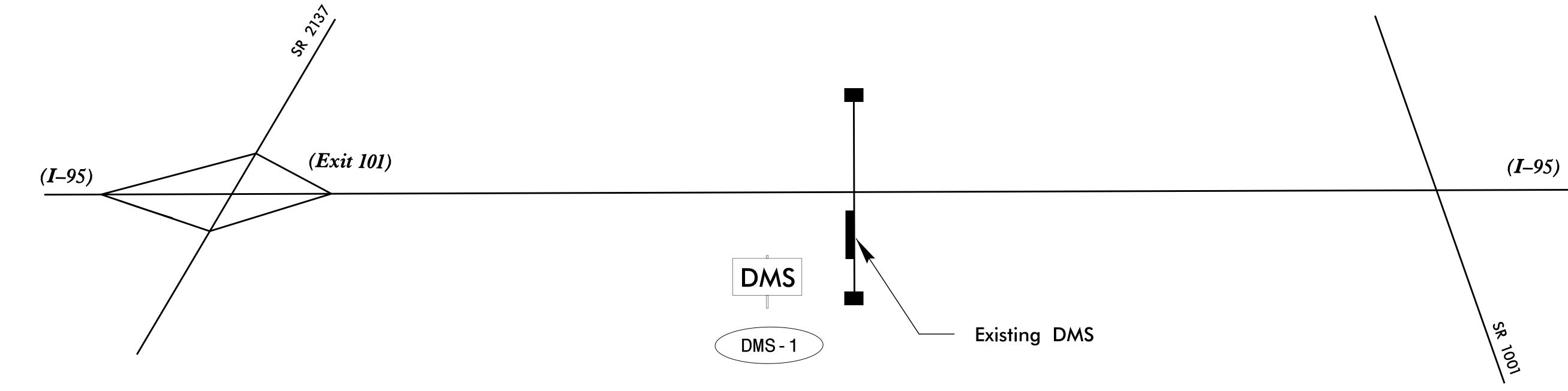
LOCATION: SOUTHBOUND I-95 NEAR MM 101

TYPE OF WORK: REMOVE AND DISPOSE OF EXISTING DMS, EXISTING OVERHEAD SIGN

SIGN STRUCTURE AND FOUNDATIONS, REPLACE CABINET ON

EXISTING BASE, INSTALL DMS ON NEW PEDESTAL STRUCTUE, AND

MODIFY EXISTING ELECTRICAL SERVICE



2018 STANDARD SPECIFICATIONS

PROJECT LENGTH

PROJECT LENGTH = 0.0 MILES

LETTING DATE:

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.	<u>TITLE</u>
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
1	

### 2018 STANDARD SPECIFICATION

NCDOT CONTACT:

TRANSPORTATION MOBILITY AND SAFETY

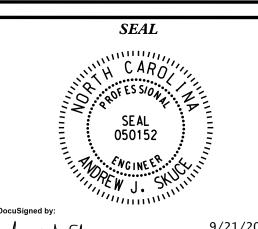
M. M. MCDIARMID, P.E, CPM

M. M. MCDIARMID, P.E, CPM STATE TRANSPORTATION SYSTEMS MANAGEMENT & OPERATIONS ENGINEER





ALL DIMENSIONS IN THESE
PLANS ARE IN FEET
UNLESS OTHERWISE NOTED



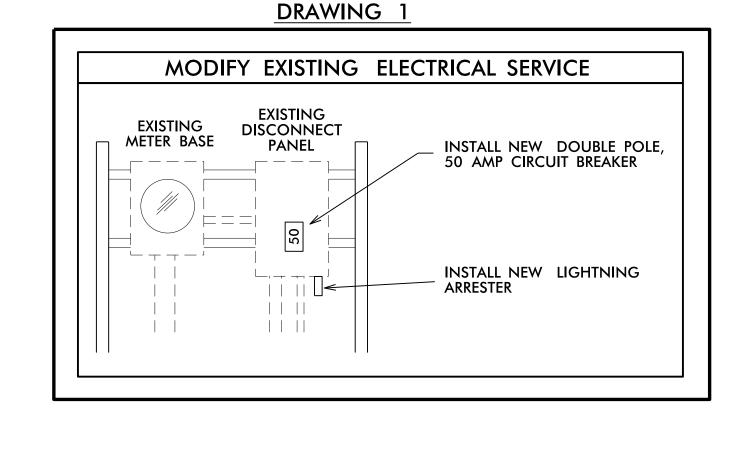


andrew J. Skuce

# GPS COORDINATES:

35.545320, -78.231309

INSTALL THE FOLLOWING			
QUANTITY	UNIT	DESCRIPTION	
1	EA	DYNAMIC MESSAGE SIGN (TYPE 2C)	
1	EA	DMS PEDESTAL STRUCTURE	
1	EA	DMS ACCESS LADDER	
8	CY	OVERHEAD FOOTINGS	
50	LF	(2,2) UNPAVED TRENCHING	
1	EA	MODIFY EXISTING ELECTRICAL SERVICE	



# LEGEND

----- NEW CONDUIT
----- EXISTING CONDUIT

EXISTING SPLICE ENCLOSURE

NEW GUARDRAIL

EXISTING CONTROLLED ACCESS FENCE

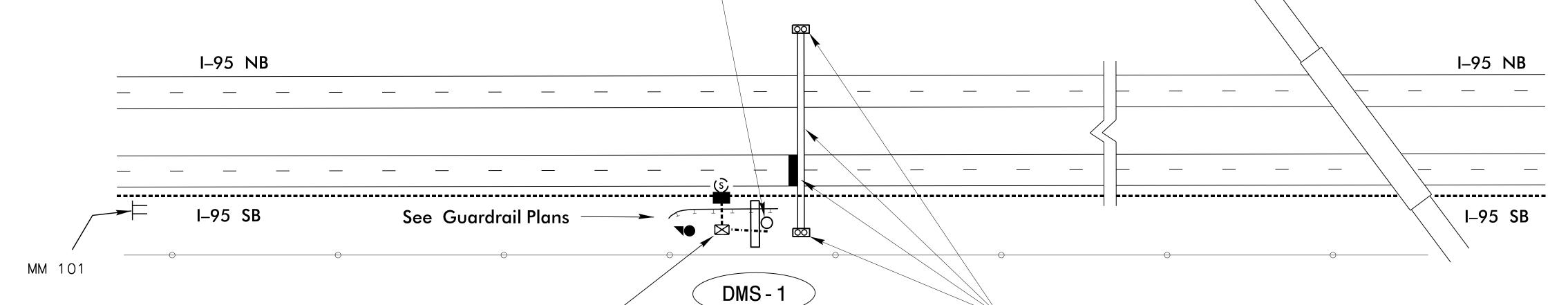
MODIFY EXISTING ELECTRICAL SERVICE

PROPOSED DMS ON PEDESTAL STRUCTURE

EXISTING OVERHEAD SIGN STRUCTURE

NEW ITS DEVICE NUMBER

NEW CONTROLLER AND CABINET



**NOTES** 

1. REMOVE EXISTING DMS, OVERHEAD SIGN STRUCTURE, AND FOUNDATIONS.

See Notes 4, 5 and 6.

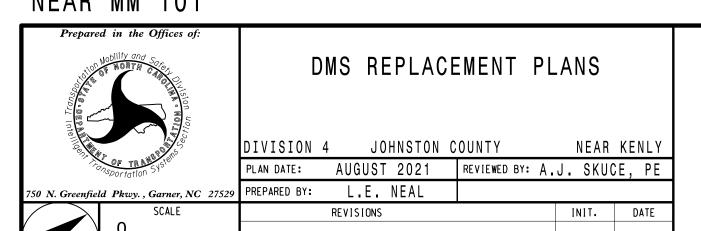
- 2. INSTALL NEW DMS ON PEDESTAL STRUCTURE WITH ACCESS LADDER.
- 3. INSTALL NEW LIGHTNING ARRESTER AND NEW 50A DOUBLE POLE BREAKER IN EXISTING DISCONNECT.
- 4. INSTALL NEW CABINET & BASE EXTENDER ON EXISTING FOUNDATION.
- 5. FIBER INSTALLED BY I-5986C BROADBAND PROJECT. ENSURE EXISTING FIBER OPTIC CABLE CONNECTIONS ARE LABELED BEFORE DISCONNECTION. RESPLICE OR RECONNECT FIBER OPTIC CABLE BASED ON EXISTING TERMINATION CONFIGURATION. WORK IS NOT COMPLETE UNTIL ALL FIBER OPTIC COMMUNICATIONS ARE OPERATIONAL.
- 6. DELIVER EXISTING MODEM AND ANTENNA TO NCDOT ENGINEER. CONTACT: C. TODD LEWIS AT 252–640–6400.

REMOVE AND	DISPOSE O	F THE FOLLOWING	
QUANTITY	UNIT	DESCRIPTION	
1	EA	EXISTING DMS COMPONENTS	
1	EA	EXISTING DMS STRUCTURE	
2	EA	EXISTING DMS STRUCTURE FOUNDATION	

XXXXX

 $\boxtimes$ 

### NEAR MM 101



ROJECT REFERENCE NO.	SHEET NO.
HI-0008	ITS-3

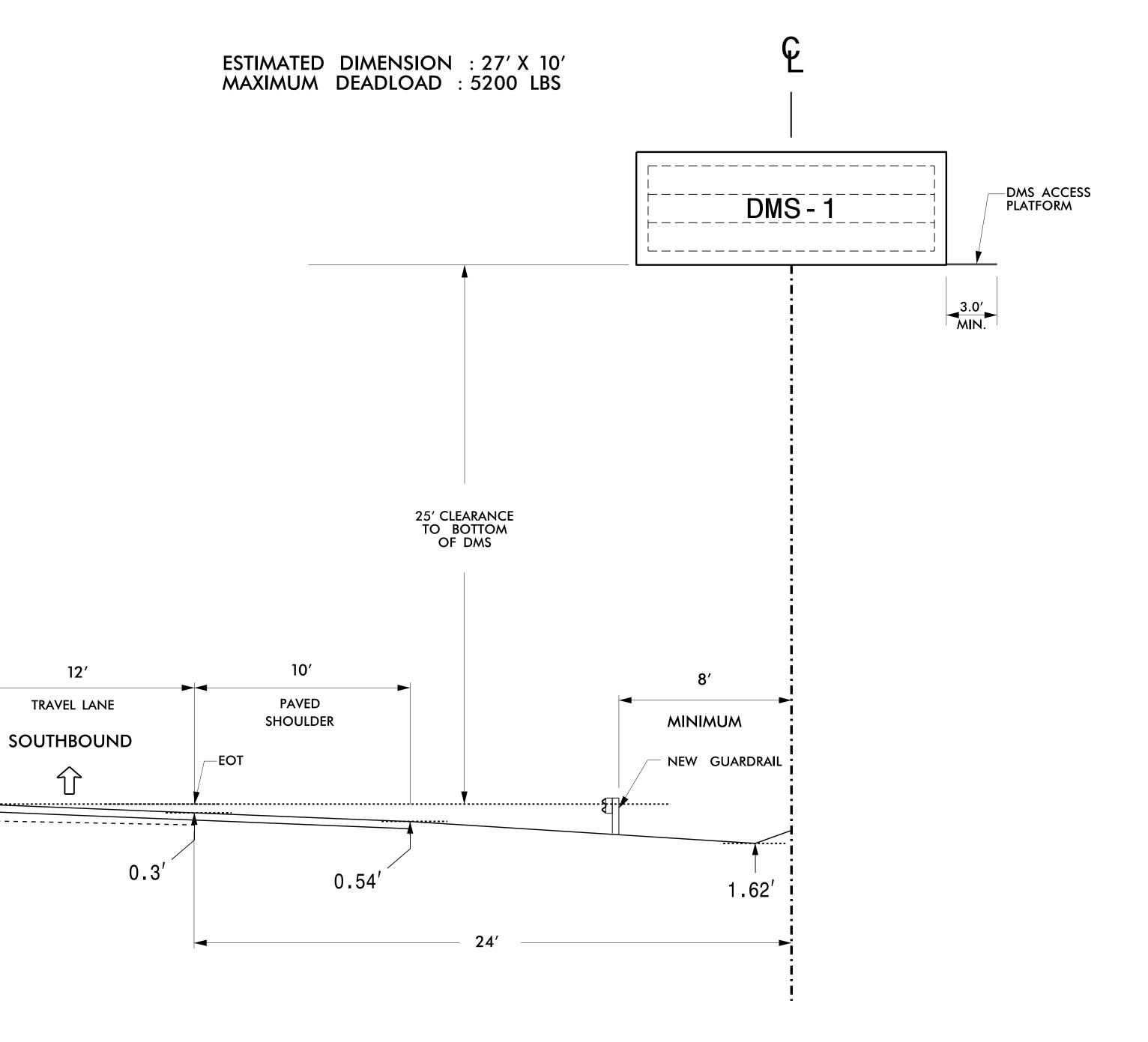
NOTES

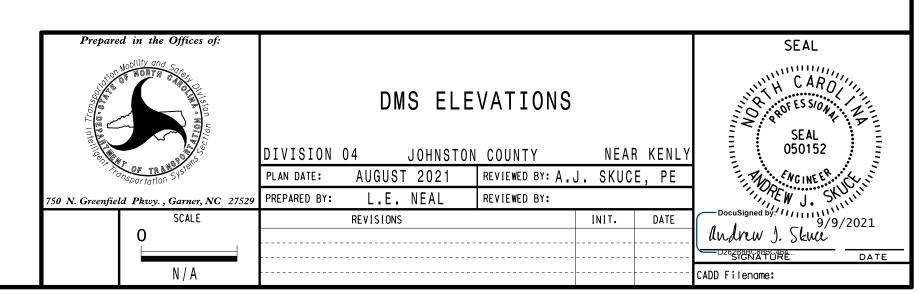
- 1. CONTRACTOR IS RESPONSIBLE FOR FURNISHING ELEVATION DRAWINGS FOR ENGINEER'S APPROVAL
- 2. PROVIDE A FIXED LADDER LEADING TO THE ACCESS PLATFORM FOR THE DMS AS INDICATED IN THE PROJECT SPECIAL PROVISIONS.
- 3. EQUIP THE LADDER WITH A SECURITY COVER (LADDER GUARD).

  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.
- 4. INSTALL A CONCRETE LANDING PAD MEASURING A MINIMUM 4 INCHES DEEP, 24 INCHES WIDE, AND 36 INCHES LONG DIRECTLY BENEATH THE LADDER.
- 5. USE ACTUAL DIMENSIONS AND WEIGHT OF THE DMS TO COMPLETE THE DESIGN OF THE DMS STRUCTURE.
- 6. FIELD VERIFY ALL FOOTING ELEVATIONS AND GROUND SLOPES AT THE FOOTING USING THE LATEST NCDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES.
- 7. 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 SURFACE AT THE FOOTING.
- 8. DESIGN AND CONSTRUCT THE PEDESTAL STRUCTURE AND DMS ENCLOSURE TO WITHSTAND WIND VELOCITIES OF 110 MPH.
- 9. VERIFY ALL UNDERGROUND UTILITY LOCATIONS BEFORE BEGINNING ANY UNDERGROUND WORK. DO NOT DAMAGE ANY EXISTING UTILITIES OR NCDOT CABLES DURING CONSTRUCTION.

TRAVEL LANE

SOUTHBOUND





ROJECT REFERENCE NO.	SHEET NO.
HI-0008	ITS-4

SEAL

SEAL 050152

CADD Filename:

### **NOTES**

- 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.
- 2. MECHANICALLY CRIMP ALL CONNECTIONS TO GROUND RODS USING AN IRREVERSIBLE COMPRESSION TOOL.
- 3. INSTALL MARKER TAPE DIRECTLY ABOVE ALL GROUNDING ELECTRODES AND CONDUCTORS AT A DEPTH OF 12 INCHES.
- 4. REMOVE BONDING JUMPER IN EQUIPMENT CABINET IF INSTALLED BETWEEN AC NEUTRAL AND EQUIPMENT GROUND.
- 5. BOND ALL RIGID GALVANIZED STEEL CONDUITS ENTERING THE CABINET TO "EQUIPMENT GROUND".
- 6. INSTALL CONDUIT BETWEEN DISCONNECT AND CABINET.
- 7. ENSURE EQUIPMENT GROUND IS ELECTRICALLY BONDED TO CABINET.

N/A

