Project Number:_____Project Location:_____
Date:_____

# VARIABLE MESSAGE SIGN (VMS)
# LOCAL FIELD OPERATIONS TEST

| | | |
|---|---|---|
| Physical and Electrical Inspection Completed?<br>Inspector Name: | Yes / No | Date: |
| Integrator Name: | | |
| Integrator Phone and e-mail: | | |
| Contractor Name: | | |
| Contractor Phone and e-mail: | | |
| Notes: | | |

**Engineer's Field Inspection Date**:_____ **LFOT Request Date**:_____

## Introduction

This document outlines the Local Field Operations Test for the Variable Message Sign (VMS) System. The purpose of the test is to ensure that the system is operational and that the sign has not been damaged.

## Test Details

Date of Test: _____

Test Performed By: _____

Signature: _____

Integrator Name: _____ Signature_____

TMD Rep:_____ Signature:_____

Other Rep:_____ Signature:_____

Voltage at sign terminals: _____

Verify sign peripherals: _____

Verify operation from controller: _____

Verify operation from switch: _____

UDOT Receipt test date/results: _____/_____

**Pass** **Fail**

Project Number:_____Project Location:_____
Date:_____

## A. Setting up the sign controller

1. Check that V3000 is powered up (check that the message appears on the LCD panel) Sign Configurations:
    1. Freeway Type I
       a. model and type (enter)
    2. 1) monochrome (enter)
    3. 1) gen 4 (24-volt)
    4. 2) 9X5 (enter)
    5. 2) 66mm (18" character) (enter)

    1. Surface Street Type II
       a. model and type (enter)
    2. 1) Monochrome
    3. 1) gen 4 (24-volt)
    4. 1) 7x5 (enter)
    5. 1) 44mm (12") (enter)

2. **Device type**
    1. 1 full
    2. display pixel height
    3. height: 27 (enter)
    4. display pixel width
    5. width:105 (enter)
    6. display access (enter)
    7. 2 walk-in (enter)
    8. check time and date and time zone (DST must be on)

3. **Communication configuration**
    1. Internet control port
    2. 1 baud rate (auto)
    3. 2 protocol TCP/IP and UDP/IP
    4. 3 traps disabled
    5. 4 timeout default
    6. 5 Ethernet mode static
    7. 6 IP settings (enter)

4. **Controller IP set up**
    1. 1 controller IP (enter)
    2. 2 controller IP port 161 (enter)
    3. 3 controller subnet (enter)
    4. 4 controller gateway (enter)
    5. press ESC (controller will reset )

5. **Peripheral configurations**
    1. 2) To view, peripheral (should have all)
    2. Should show all eight LVDB boards showing 24 V on the following items: picture of the ground controller find temperature, ambient, three light sensors, DCIO-on, intake fans, front fans and heaters. (Possibility door switch and surge protection)
    3. ESC and press 1. (Add peripherals)
    4. ESC and press 5 (delete all and auto detect)
    5. ESC and press 2 (view peripherals)
    6. ADD peripherals (must be added)

7. 4) ADD DC/IO Sensor
8. 1) DC/IO 1
9. 2). Switch 5 off (TB5 & TB8 output)
10. 1) on distribution board.
11. ADD Fan
12. 1) Intake fans
13. Attached to which target. (1 DC/IO number 1)
14. 3) Front fans
15. Attached to which target (1 DC/IO number 2)
16. ADD heaters
17. 1) Heater control
18. Attached to which target (1 DC/IO number 3)

6. **Running and testing the sign**
    1. Diagnostic
    2. 1) Test Patterns
    3. 2) Auto Test
    4. Pixel Test Results.
    5. Pixel Test Result Map
    6. Pixel Test Results Bitmap

7. **Test Details**
    Date of Test:
    Test Performed By:
    UDOT Witness:

8. **Sign and Controller Details**
    Serial Number of VMS Assembly:
    Serial Number of Field Cabinet Assembly:
    Contract Number:

| **Test Completed by:** | **Date:** | **UDOT Representative Witness:** |
|---|---|---|
| _____ | _____ | _____ |
| Signature | | Signature |
| _____ | | _____ |
| Print Name | | Print Name |
| _____ | | _____ |
| Print Employer Name | | Print Employer Name |