

**TRAFFIC VOLUME SYSTEM  
DEVICE TESTING - LEVEL C**

**Project Name:** \_\_\_\_\_ **Test Date:** \_\_\_\_\_

**TVS #** \_\_\_\_\_ **Route:** \_\_\_\_\_ **MM** \_\_\_\_\_ . \_\_\_\_\_ **NB/SB/EB/WB/Median**  
**Nearest Side Street Name:** \_\_\_\_\_

This procedure outlines Level C device test to be performed on Traffic Volume System. Level C device testing demonstrates that each device is fully operational from the designated control center to the device work site after integration into the designated control center software management systems. After the Contractor's verification test, the Department will conduct a 14-day observational and functional test period.

**PRIOR TO LEVEL C TESTING, ENSURE THAT NETWORK COMMUNICATIONS SYSTEM TESTING IS COMPLETE.  
IS NETWORK COMMUNICATION SYSTEM TESTING COMPLETE?**

YES  N/A

**IF YES, TEST DATE:** \_\_\_\_\_ **TEST RESULT:** PASS  FAIL

**IF PASS, BEGIN LEVEL C TESTING**

**IF FAIL, REPEAT NETWORK COMMUNICATIONS TESTING AFTER TROUBLESHOOTING**

**IF N/A, EXPLAIN** \_\_\_\_\_

**Testing Software Name:** \_\_\_\_\_

**Test Location:** \_\_\_\_\_

**TVS Manufacturer:** \_\_\_\_\_ **TVS Model No.:** \_\_\_\_\_ **TVS Serial No.:** \_\_\_\_\_

**1. TVS CONTROLLER**

No.	Task	Required Value	Actual Value	Pass	Fail	Comments
I.	Verify communication with site TVS controller					
II.	Verify 8 digit station ID					
III.	Confirm recording and data storage interval settings	User selectable increments of 1, 5, 15, 30, 60 minutes				
IV.	Verify date and time					
V.	Verify sensor configuration, size & spacing					
VI.	Verify loop inputs and recording channels					
VII.	Verify available memory and memory in use					
VIII.	Verify data recording parameters	Speed, Length, Gap, headway, Volume				
IX.	Verify bin thresholds and view recordings by bin					
X.	Verify individual sensor activations					

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XI.	Verify individual recording in real time for each vehicle					
XII.	Map channels into groups, such as by direction and local and express lanes, for each sensor input					

**2: DATA RETREIVAL**

No.	Task	Required Value	Actual Value	Pass	Fail	Comments
I.	Obtain precise time of each individual sensor activation and readings					
II.	Create a classification scheme based on number and spacing of axles and select newly created classification scheme					
III.	Verify real time vehicle viewing selectable by lane with graphical output					

**3: REPORT GENERATTION**

No.	Task	Required Value	Actual Value	Pass	Fail	Comments
I.	Verify daily & weekly summary reports for the following:					
a.	Volume per increment					
b.	Vehicle Speed	Min. 16 user defined bins				
c.	Classification	Min. 24 user defined classes				
d.	Vehicle Length					
e.	Gap between vehicles					
f.	Headway between fronts of vehicles					
g.	Bridge formula violations					
II.	Generate & verify error reports including time down, system access and improperly completed records					
III.	Verify the ability to automatic input of site &					

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Nearest Side Street Name: \_\_\_\_\_

classification records into FHWA Vehicle Travel Information System (VTRIS) database	X	X			
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**LEVEL C TEST RESULTS:**

PASS                       FAIL

**Correction Work Items:**

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_

We agree that Level C testing of the Traffic Volume System has been performed and that the information above accurately represent the results of the test.

Contractor Name: \_\_\_\_\_  
Contractor Representative Name: \_\_\_\_\_  
Signature and Date: \_\_\_\_\_

ITS Inspector Name: \_\_\_\_\_  
Signature and Date: \_\_\_\_\_

Resident Engineer Name: \_\_\_\_\_  
Signature and Date: \_\_\_\_\_

<b>Corrected Work Items:</b>	<b>ITS Inspector Signatures &amp; Date</b>
1. _____	_____
2. _____	_____
3. _____	_____
4. _____	_____
5. _____	_____