

**HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
CORROSION CONTROL TEST STATION  
FIELD DATA SURVEY FORM**

Location: (114+50) Date Surveyed: 05/31//2007  
 T/S #: 4 Surveyed by: AS/MJ  
 T/S Type: ST w/Anode Contract #: 44-3218  
 Was the T/S located? YES / NO YES Pipe Size: 16"

**TEST STATION CONDITION**

Test Box: Damaged sue to vandalism.  
 Terminal Board: Missing  
 Wires: Good  
 Other: \_\_\_\_\_

**SURVEY DATA**

Test Wire Size/Description	Color	P/Cu-CuSO <sub>4</sub> (V) "On""Off"		P/Zn (V) "On""Off"		Anode (mA)
1. #10 AWG	Black	-0.809	-0.310			1.7
2. #8 AWG	Black	-0.808	-1.480			
3. #12 AWG	Black	-0.807	-0.290			
4. #10 AWG	Black	-0.807	-0.288			
5. #12 AWG	Black	-0.807	-0.290			
6.						
7.						
8.						

P/Cu-CuSO<sub>4</sub> = Pipe to Copper-Copper Sulfate Reference Electrode  
 P/Zn = Pipe to Zinc Reference Electrode  
 "On" = Reading with Anode(s) connected  
 "Off" = Reading with Anode(s) disconnected  
 Anode = Current output Anode(s)

**TESTING THE EFFECTIVENESS OF INSULATING JOINTS**

Groundbed: \_\_\_\_\_  
 Connected to (B/W): \_\_\_\_\_

	Current (A)	Voltage (V)	Resistance (ohms)
ON:			
OFF:			
DELTA:			

**TESTING IR DROP**

IR Drop Calibrations	I (A)	E (mV)	K = $\frac{\Delta I \text{ (mA)}}{\Delta E \text{ (mV)}}$	Between Terminals	Resistance (ohms)
INITIAL:					
FINAL:					
DELTA:					

Direction: \_\_\_\_\_

**REPAIRS MADE**

Test Box: Repaired by sawing off the damaged (crushed) part.  
 Terminal Board: Replaced  
 Wires: New termination  
 Other: \_\_\_\_\_  
 Comments/Recommendations: A vehicle had run over the test station. Test Station was repaired.



Figure 115 - Location of Test Station 3218-4 (before the repair)



Figure 116 - Location of Test Station 3218-4 – close up (before the repair)





Figure 117 - Location of Test Station 3218-4 (after the repair)



Figure 118 - Location of Test Station 3218-4 – close up (after the repair)