

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

Location: Old Frederick Rd Date Surveyed: 06/22/2007  
 T/S #: 01 Surveyed by: AS/MJ  
 T/S Type: IJ Contract #: 44-3480  
 Pipe Size: 12"  
 Was the T/S located? YES / NO YES

**TEST STATION CONDITION**

Test Box:	<u>Good</u>
Terminal Board:	<u>Good</u>
Wires:	<u>Good</u>
Other:	

**SURVEY DATA**

Test Wire Size/Description	Color	P/Cu-CuSO <sub>4</sub> (V)		P/Zn (V)		Anode (mA)
		"On"	"Off"	"On"	"Off"	
1. #10 AWG	Green	-0.621				
2. #10 AWG	Green	-1.082				
3. #10 AWG	Black	-1.110				
4. #10 AWG	Green	-0.558				
5. #10 AWG	Black	-0.523				
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:	0.048	0.530	5.91
OFF:	0.000	0.246	
DELTA:	0.048	0.284	

**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:	
Terminal Board:	
Wires:	
Other:	
Comments/Recommendations:	<u>IJ test indicates proper functioning</u>



Figure 207 - Location of Test Station 3480-1



Figure 208 - Test Station 3480-1 close-up