

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

Location: 76+00 Date Surveyed: 06/07/2007  
Elk Mar (7107 Elkmar) Surveyed by: AS/MJ  
 T/S #: 27 Contract #: 44-3327  
 T/S Type: ST w/Anode Pipe Size: 36"  
 Was the T/S located? YES / NO YES

**TEST STATION CONDITION**

Test Box:	Covered with grass
Terminal Board:	Good
Wires:	Good
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. #8 AWG	Red	-1.400	-1.675	-0.990	-1.400	33.0
2.						
3. #10 AWG	Black	-1.410	-1.308	-1.195	-0.925	
4.						
5.						
6. #10 AWG	Black	-1.108	-1.402	-0.082	-0.130	
7. #10 AWG	Green	-1.210	-1.221			
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:	Cleared the grass covering the test box
Terminal Board:	
Wires:	
Other:	
Comments/Recommendations:	



Figure 165 – Location of Test Station 27



Figure 166 – Test Station 27 close up