

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

Location: 11+26 Date Surveyed: 05/29/2007
 Old Columbia Rd Surveyed by: AS/MJ
 T/S #: 02 Contract #: 44-3868
 T/S Type: ST w/Anode Pipe Size: 16"
 Was the T/S located? YES / NO YES

TEST STATION CONDITION

Test Box: Good
 Terminal Board: Good – Slightly covered with soil
 Wires: Good
 Other:

SURVEY DATA

Test Wire Size/Description	Color	P/Cu-CuSO ₄ (V)		P/Zn (V)		Anode (mA)
		"On"	"Off"	"On"	"Off"	
1. #10 AWG	Blue	-1.115	-0.977	-1.105	-0.955	65
2.						
3. #10 AWG	Blue	-1.100	-0.975	-0.981	-0.908	
4. #10 AWG	Blue	-1.214	-1.648	-1.103	-1.637	
5.						
6.						
7. #10 AWG	Black	-1.035	-0.028			
8.						

P/Cu-CuSO₄ = 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: _____
 Terminal Board: _____
 Wires: _____
 Other: _____
 Comments/Recommendations: _____



Figure 74 – Location of Test Station 2 - Old Columbia Road.



Figure 75 – Test Station 2 close up