

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

Location: 10+50 Date Surveyed: 2/16/2005
MD 108 Surveyed by: AC/MJ
 T/S #: 3 Contract #: 44-3327
 T/S Type: IR Pipe Size: 36"

Was Test Station located? YES/NO Yes
 If NO, then how much time was spent locating? _____

TEST STATION CONDITION

Test Box : Good
 Terminal Board : Good
 Wires : Good
 Other : Test station lid has no notch to place terminal board

SURVEY DATA

Test Wire Size/Description	Color	P/Cu-CuSO ₄ (V)		P/Zn (V)		Anode (mA)
		"On"	"Off"	"On"	"Off"	
1) #10 AWG	Red	-1.589	-1.664	-0.485	-0.583	9.5
2) #10 AWG	Black	-1.587	-1.553	-0.479	-0.443	
3) #8 AWG	Orange	-1.590	-1.551	-0.485	-0.443	
4) #10 AWG	Green	-1.106	-1.105			
5)						
6) #12 AWG	Orange	-1.586	-1.545	-0.477	-0.441	
7) #6 AWG	Black	-1.588	-1.543	-0.483	-0.440	

P/Cu-CuSO₄ = Pipe to Copper - Copper Sulfate Reference Cell
 P/Zn = Pipe to Zinc Permanent Reference Cell
 "On" = Reading with Anode(s) connected
 "Off" = Reading with Anode(s) disconnected
 I Anode = Current output of anodes

IR Drop Calibrations	I (Amps)	E (mV)
Initial	0	0
Final	2	4.8
Delta	-2	-4.8

K = $\frac{? I (mA)}{? E (mV)}$
 K = $\frac{0.42}{}$
 Direction; Orange to Black

Between Terminals	Resistance (Ohms)

REPAIRS MADE

Test Box: _____
 Terminal Board: _____
 Wires: _____
 Other: _____
 Additional Comments/Recommendations: _____



Figure 131 – Location of Test Station 3



Figure 132 – Test Station 3 close up