

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

Location: 55+50 Date Surveyed: 06/07/2007
7300 Golden Fern Court Surveyed by: AS/MJ
 T/S #: 24 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:	Filled with water
Terminal Board:	Good
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. #8 AWG	Red	-1.315	-1.642	-0.283	-0.625	40.0
2.						
3. #8AWG	Black	-1.318	-1.264	-0.240	-0.213	
4.						
5.						
6. #8 AWG	Black	-1.517	-1.345	-0.235	-0.217	
7. #10 AWG	Green	-1.048	-1.047			
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 159 – Location Test Station 24



Figure 160 – Test Station 24 close up