

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

Location: 03+20 Date Surveyed: 06/07/2007
E. of Meadowridge Road Surveyed by: AS/MJ
 T/S #: 17 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:	<u>Log on the test station concrete padding</u>
Terminal Board:	<u>Good</u>
Wires:	<u>Good</u>
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	Red	-1.321	-1.637	-0.523	-0.549	26.3
2.						
3. #10 AWG	Black	-1.306	-1.274	-0.529	-0.185	
4. #10 AWG	Green	-1.113	-1.120			
5.						
6. #10 AWG	Black	-1.306	-1.272	-0.158	-0.162	
7.						
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:	<u>New GPS reading recorded</u>



Figure 149 – Location of Test Station 17



Figure 150 – Test Station 17 close up