

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

Location: 30+10 Date Surveyed: 06/06/2007
Golf Course (Hole 5) Surveyed by: AS/MJ
 T/S #: 20 Contract #: 44-3327
 T/S Type: IJ w/Anode Pipe Size: 36"
 Was the T/S located? YES / NO YES

TEST STATION CONDITION

Test Box:	<u>Good</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. #8 AWG	Red	-1.240	-1.591	-0.514	-0.441	32.0
2.						
3. #8 AWG	Black	-1.251	-1.219	-0.118	-0.172	
4. #10 AWG	Green	-1.089	-1.095			
5.						
6. #8 AWG	Black	-1.259	-1.234	-0.112	-0.095	
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:	



Figure 151 – Location of Test Station 20



Figure 152 – Test Station 20 close up