

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

Location: 03+00 **Date Surveyed:** 4/4/2005
South of US Rt. 29 Ramp **Surveyed by:** AC/MJ
T/S #: 04 **Contract #:** 44-3844
T/S Type: IJ **Pipe Size:** 30"

Was Test Station located? YES/NO Yes

TEST STATION CONDITION

Test Box : No Concrete Pad
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	Black	-1.311	-1.556	-1.233	-1.461	3.8
2) #8	Black	-1.314	-1.552	-1.231	-1.460	
3) #10	White	-0.611	-0.608	-0.527	-0.520	
4) #10	White	-0.082	-0.085			
5) #10	Blue	-1.304	-1.108	-1.230	-1.036	
6) #10	White	-0.600	-0.590	-0.528	-0.520	
7) #10	Blue	-1.291	-1.101	-1.229	-1.035	

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

TESTING THE EFFECTIVENESS OF INSULATING JOINTS / PIPE CASING

GROUND BED:
CONNECTED TO (B/W):

CURRENT	(A)	VOLTAGE	(V)	RESISTANCE (ohms):	5.62
ON:	1.85	ON:	10.9		
OFF:	0	OFF:	0.53		
DELTA:	1.85	DELTA:	10.4		

REPAIRS MADE

Test Box: _____
Terminal Board: _____
Wires: _____
Other: _____
Additional Comments/Recommendations: IJ test indicated electrical discontinuity across the insulated joint.



Figure 80 - Location of Test Station 3844-4



Figure 81 - Test Station 3844-4 close-up