

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS CORROSION CONTROL TEST STATION FIELD DATA SURVEY FORM						
Location:		<u>5' N of MD 108 / MD 32 Bridge</u>		Date Surveyed:	<u>3/25/2005</u>	
T/S #:		<u>2</u>		Surveyed by:	<u>AC/MJ</u>	
T/S Type:		<u>IJ</u>		Contract #:	<u>44-3231</u>	
				Pipe Size:	<u>12"</u>	
Was Test Station located? YES/NO <u>Yes</u>						
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) #10 AWG	Green		-0.218			
2) #10 AWG	Green		-1.253		-1.038	
3) #10 AWG	Black		-0.641		-0.426	
4) #10 AWG	Black		-1.254		-1.040	
5) #10 AWG	Black		-0.554		-0.336	
6) #10 AWG	Black		-0.642		-0.424	
7)						
P/Cu-CuSO ₄ = 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						
GROUND BED: CONNECTED TO (B/W):						
CURRENT	(A)	VOLTAGE	(V)	RESISTANCE (ohms):	3	
ON:	3.48	ON:	10.9			
OFF:	0	OFF:	-0.61			
DELTA:	3.48	DELTA:	11.5			
REPAIRS MADE						
Test Box:						
Terminal Board:						
Wires:						
Other:						
Additional Comments/Recommendations:		<u>IJ test indicated effective isolation of the two pipes.</u>				



Figure 122 - Location of Test Station 3231-2



Figure 123 - Test Station 3231-2 close-up