

**Howard County Traffic Signal Inspection Field Survey Rating Form - Page 1: Structures**

**Signal Number:**  **Location:**

**Date:**  **Inspected By:**  **Checked By:**

<b>STRUCTURES:</b>			<b>POINTS</b>	<b>SCORE</b>	
Signal Age:	0-10 yrs: 0 pts.	11-20 yrs: 5 pts.	>20 yrs: 10 pts.	0-10	10
Design Type:	(mast-arm = 0 pts, span wire = 5 pts)			0-5	0
Pole Type:	(painted = 5 pts, galvanized = 0 pts)			0-5	5
General condition of the poles:	(good = 0 pts, fair = 5 pts, poor = 10 pts)			0-10	5
Paint coating condition:	(good = 0 pts, fair = 5 pts, poor = 10 pts)			0-10	5
Any abnormal bending or pole rake?	(moderate = 5 pts, severe = 10 pts)			0-10	0
Pole back guys in use?	(1 back guy = 3 pts, 2 back guys = 5 pts, 3 or more back guys = 10 pts)			0-10	0
Any abnormal bending or sagging of the mast arms?	(yes = 5 pts, no = 0 pts)			0-5	0
Any signs or rust or corrosion at or near the mast arm mounting plates?	(yes = 5 pts, no = 0 pts)			0-5	0
Any signs of rust on the span wires?	(surface area: 25% or less = 5 pts, 25%-50% = 10 pts, greater than 50% = 15 pts)			0-15	0
Any abnormal sagging of the span wires?	(1 span = 5pts, 2 or more spans = 10 pts)			0-15	0
Any span wire splices?	(1 splice = 5 pts, 2 splices = 10 pts, 3 or more splices = 15 pts)			0-15	0
Any signs of erosion around any of the pole bases?	(yes = 5 pts, no = 0 pts)			0-5	0
Base plate mounted directly to foundation with no leveling nuts?	(yes = 5 pts, no = 0 pts)			0-5	0
Rust or corrosion on the base plate, anchor bolts, or nuts?	(severe 25 pts, moderate 15 pts, light 5 pts, no 0 pts)			0-25	15
Is the pole base welded steel or cast iron?	(cast iron = 10pts)			0-10	0
Any signs of cracking at or near base plate welds?	(10 pts any signs of cracking)			0-10	0
Base plates buried?	(yes + 10 pts, no = 0 pts)			0-10	0
Any exposed rebar or abnormal exposure of the anchor bolts?	(yes = 5 pts, no = 0 pts)			0-5	0
Any abnormal cracking or spalling of concrete on any of the pole foundations?	(moderate = 3 pts, severe = 5 pts)			0-5	0
<b>OTHER:</b>					
Any apparent violations of the Maryland High Voltage Act?	(yes = 10 pts)			10	0
Any equipment obstructions to walking or biking paths?	(1 obstruction = 1 pt, 2 obstructions = 3 pts, 3 or more = 5 pts)			0-5	0
Cabinet conduit capacity:	(Below = 0 pt, At = 3 pts, Above = 5 pts)			0-5	3
Overall condition of the hand boxes:	(Good = 0 pt, Fair = 3 pts, Poor = 5 pts)			0-5	0
Conduit fill capacity in hand boxes:	(Below = 0 pts, At = 3 pts, Above = 5pts)			0-5	3
General condition of the electrical service:	(Good = 0 pts, Fair = 3 pts, Poor = 5pts)			0-5	3
<b>OVERALL SCORE:</b>					<b>49</b>

**Howard County Traffic Signal Inspection Field Survey Rating Form - Page 2: Supplemental Items**

<b>CONTROLLER TYPE:</b>	TS 1	<input type="checkbox"/>	TS 2 Type 1	<input type="checkbox"/>	TS 2 Type 2	<input checked="" type="checkbox"/>
<b>CABINET TYPE:</b>	TS 1	<input checked="" type="checkbox"/>	TS 2	<input type="checkbox"/>	Other	<input type="checkbox"/>
	Base Mount	<input checked="" type="checkbox"/>	Pole Mount	<input type="checkbox"/>		

<b>SUPPLEMENTAL ITEMS:</b>	<b>POINTS</b>	<b>SCORE</b>
Is the cabinet in an accessible location? (No = 1 pt)	0-1	0
Cabinet condition: (Good = 0 pts, Fair = 1 pt, Poor = 2 pts)	0-2	0
Per the MUTCD, are there two indications per movement? (1 pt per movement not meeting this requirement)	0-4	1
Per the MUTCD, are there near-side signal heads were necessary? (1 pt per approach not meeting this requirement)	0-4	0
Are the pedestrian indications appropriately aligned with crosswalks? (1 pt per crossing not meeting this requirement)	0-4	0
Are pedestrian push buttons accessible? (1 pt for each button that is not accessible)	0-8	0
Are there any utility lines touching mast-arms or span wires? (1 pt per mast-arm or span wire)	0-4	0
Are there any signal heads that are obstructed by utility line? (1 pt per approach with utility line obstruction)	0-4	0
<b>SUPPLEMENTAL SCORE:</b>		<b>1</b>

**Howard County Traffic Signal Inspection Field Survey Rating Form - Page 3: Maintenance Items**

<b>MAINTENANCE ITEMS:</b>	<b>Yes/No</b>
Cabinet door hinge or lock damaged?	n
Cabinet conduits plugged?	n
Rodent or bug infestation within the cabinet?	n
Is the cabinet filter present?	y
Is the exterior cabinet base caulked?	y
Does each pole have a rodent barrier?	y
Are all the tightening and leveling nuts present and tight?	y
Are all mast-arm flange bolts present?	y
Are all pole access covers present and secured?	y
Do all "T" bases appear to be level and tight?	y
Does there appear to be any LED degradation?	n
Do any traffic signal indications appear to fall below MUTCD height requirements?	n
Are all hand boxes accessible?	y
Are all hand box lids present and secure?	y
	<b>G/F/P</b>
Condition of stop lines:	(Good, Fair, Poor) Fair
Condition of crosswalks:	(Good, Fair, Poor) Fair
Condition of regulatory/warning signs:	(Good, Fair, Poor) Good

**NOTES:**

Paint coating is in fair condition.

Both poles have paint coating failure, with significant rusting behind the anchor bolt caps.

Structural Evaluation: both poles were checked with a D meter, and had negligible section loss. Concrete foundations are solid.

Both poles should be blast cleaned, primed, and re-painted to prevent further deterioration.