

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

Signal Number: **Location:**

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

| STRUCTURES: | | | POINTS | SCORE | |
|---|--|-------------------|------------------|--------------|----------|
| Signal Age: | 0-10 yrs: 0 pts. | 11-20 yrs: 5 pts. | >20 yrs: 10 pts. | 0-10 | 5 |
| Design Type: | (mast-arm = 0 pts, span wire = 5 pts) | | | 0-5 | 0 |
| Pole Type: | (painted = 5 pts, galvanized = 0 pts) | | | 0-5 | 0 |
| General condition of the poles: | (good = 0 pts, fair = 5 pts, poor = 10 pts) | | | 0-10 | 0 |
| Paint coating condition: | (good = 0 pts, fair = 5 pts, poor = 10 pts) | | | 0-10 | 0 |
| 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 | 0 |
| 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 |
| OTHER: | | | | | |
| 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 | 0 |
| 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 | 0 |
| OVERALL SCORE: | | | | | |
| | | | | | 8 |

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

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

| SUPPLEMENTAL ITEMS: | POINTS | SCORE |
|--|---------------|--------------|
| 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 | 0 |
| 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 |
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| SUPPLEMENTAL SCORE: | | 0 |

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

| MAINTENANCE ITEMS: | | Yes/No |
|---|--------------------|---------------|
| 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? | | n |
| Does each pole have a rodent barrier? | | n |
| 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 |
| | | G/F/P |
| Condition of stop lines: | (Good, Fair, Poor) | Fair |
| Condition of crosswalks: | (Good, Fair, Poor) | --- |
| Condition of regulatory/warning signs: | (Good, Fair, Poor) | Good |

NOTES:

Cabinet lock needs lubrication.
