

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	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	10
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
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	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	0
OVERALL SCORE:					51

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 checked="" type="checkbox"/>	TS 2	<input 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
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?	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
	G/F/P
Condition of stop lines:	(Good, Fair, Poor) Good
Condition of crosswalks:	(Good, Fair, Poor) Good
Condition of regulatory/warning signs:	(Good, Fair, Poor) Good

NOTES:

Paint coating is in poor condition with rusting in multiple areas.

West Span: street name sign rubbing against the span wire service feed.

SE Pole has paint coating failure and significant rusting around the base plate area.

SE Corner: loose tightening nuts.

Structural Evaluation: the SE pole was checked with D meter, and there is minimal section loss. Anchor bolts are tight, and concrete foundation is solid. Pole should be blast cleaned, primed, and painted to prevent further deterioration.

Howard County Traffic Signal Inspection Field Survey Rating Form - Page 4: HIB

This is an older HIB. The paint coating is in fair condition with considerable peeling and some surface rusting. Upon removal of the anchor nut caps, some moderate rusting was found around the base plate weld area. This area should be cleaned, primed and painted to prevent any further deterioration. Everything was tight.