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| --- | --- | --- | --- | --- |
| ODOT RAMP METER ANNUAL  INSPECTION CHECKLIST | | | | |
| Location |  | Date |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| Inspector |  |  |  |

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| Controller/Make/Model No: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Cabinet Type: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | | | | |
| Meets | | Deficient | N/A | **OPERATIONAL CHECKS:** |
|  | |  |  | 1. Are the loop detectors picking up the correct inputs? Demand Loops, Passage Loops, Queue Loops |
|  | |  |  | 2. Are the DC isolators showing inputs from the radar unit? |
|  | |  |  | 3. Is the radar detecting all lanes of traffic? Confirm Software |
|  | |  |  | 4. Do the ramp meter controller and the radar have communications? |
|  | |  |  | 5. Does the “Ramp Metered When Flashing” sign work and beacons flash simultaneously? |
|  | |  |  | 6. Do the signal heads work? |
|  | |  |  | 7. For two lane ramp meters, do the signal heads work properly with the loops for their respective lanes?  i.e. Right lane heads work with right lane loops |
|  | |  |  | 8. When metering, do the signals rest in red? |
|  | |  |  | 9. When metering, do the demand loops trigger a green indication? |
|  | |  |  | 10. When metering, do the passage loops trigger a red indication? |
| **Comments**: | | | |  |

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| Meets | Deficient | N/A | **CONTROLLER & CABINET:** | | |
|  |  |  | 1. Is the work pad in place and in good condition? *No major cracking* | | |
|  |  |  | 2. Is all field wiring neatly arranged and routed to prevent being pinched when the cabinet door is closed and free of debris? | | |
|  |  |  | 3. Are all tags or labels properly installed and legible calling out the lane and position of the field detectors? | | |
|  |  |  | 4. Are the detector field wiring inputs connected to a side mounted terminal block? | | |
|  |  |  | 5. Are all wire terminals tight? | | |
|  |  |  | 6. Is the conduit sealed with a removable sealing compound? *No foam sealer!* | | |
|  |  |  | 7. Is the cabinet air filter in place and clean? Front and/or Back | | |
|  |  |  | 8. Are there operation manuals and cabinets prints in the cabinet? | | |
| **Comments**: | | | |  |

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| Meets | Deficient | N/A | **DETECTOR LOOPS:** |
|  |  |  | 1. Are the passage and demand loops in good condition? *Sealed well. No Loop cable exposed. No rutting or cracking of pavement around the loops* |
|  |  |  | 2. Are the queue loops in good condition? *Sealed well. No Loop cable exposed. No rutting or cracking of pavement around the loop* |

**Comments:**

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| Meets | Deficient | N/A | **RADAR DETECTION:** |
|  |  |  | 1. Is there a drip loop in the cable from the radar unit to the conduit entrance? |
|  |  |  | 2. Are all conduit entrances, ends of bracket arms, etc. sealed? Grommets in place, if necessary? |
|  |  |  | 3. Are the cables tagged? |
|  |  |  | 4. Is the Ethernet to serial converter in place? |
|  |  |  | 5. Is there communication at the radar breakout box? If so, what type? RS-232, Ethernet, or both |

**Comments:**

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| Meets | Deficient | N/A | **PEDESTAL SUPPORTS:** |
|  |  |  | 1. Is all the hardware on the supports: caps, covers, etc. |
|  |  |  | 2. Are all unused holes plugged? |
|  |  |  | 3. Are all conduits into the pedestal sealed? |
| **Comments**: | | |  |

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| Meets | Deficient | N/A | **POWER SERVICE:** |
|  |  |  | 1. Is the lock in place on the “Service Disconnect” switch? |
|  |  |  | 2. All service hardware shall have connections sealed as to have no water leaks? |
|  |  |  | 3. Does the Power Service have Deox on the lugs/terminations? |
|  |  |  | 4. Does the disconnect enclosure have a padlock on it? |

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| Meets | Deficient | N/A | **SIGNAL HEADS:** |
|  |  |  | 1. Are all signal heads aligned properly? |
|  |  |  | 2. Are all set screws and locking nuts tight? |
|  |  |  | 3. Are all unused openings plugged? |
| **Comments:** | | |  |

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| Meets | Deficient | N/A | **PULL BOXES:** |
|  |  |  | 1. Are there bolts in the pull box lid? *Shall be countersunk hex head or socket head cap screws* |
|  |  |  | 2. Are all the openings, around conduits or knockouts, sealed? |
|  |  |  | 3. Are all tags/labels in place and legible? |

**Comments:**

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| Meets | Deficient | N/A | **PAVEMENT MARKING AND SIGNING:** |
|  |  |  | 1. Is the stop line located between the demand and passage loops? |
|  |  |  | 2. Are the “Stop Here On Red” signs placed at the stop line on both sides? |
|  |  |  | 3. Are the “One Vehicle per Green” Signs installed on both sides of the ramp? |
| **Comments:** | | |  |

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| 1 | 2 | 3 | 4 | **OVERALL CONDITION & SCORE** |
|  |  |  |  | *1-Element performs intended function with high degree of reliability (Good); Requires no planned feasible action 2-Element performs intended function with small reduction in reliability (Fair); Requires repair and/or increase inspection 3-Element performs intended function with significant reduction in reliability (Poor); Requires repair or replacement of element within next year 4-Element does not perform intended function with any degree of reliability (Critical); Requires immediate repair or replacement of element* |
|  |  | | |  |

**Comments:**