

TRAFFIC SIGNAL INSPECTION CHECKLIST

North Dakota Department of Transportation, Programming
SFN 59867 (3-2023)

**23 USC § 407 Documents
NDDOT Reserves All Objections**

Inspection Date

PCN	Project Number	NDDOT Signal Inspector	NDDOT District Contact
City	Intersection	Electrical Contractor	Consultant Contact

X No or ✓ Yes

X or ✓	PAPERWORK ITEMS	COMMENTS
	Approved shop drawings are in FileNet	
	Conflict monitor (aka MMU) test successfully performed and report submitted	
	People are not shocked when touch cabinet, else need to submit Ground Test form.	
	Loop detector test successfully performed and report submitted	
	Fiberoptic interconnect test successfully performed and report submitted	
	Signal head vertical clearance measured (road to bottom of backplate) and submitted	
	Up-to-date cabinet schematics are in the cabinet	
X or ✓	CONTROLLER CABINET	COMMENTS
	Access pad is 1" above grade.	
	Controller cabinet base is 18" above ground, is caulked, and has 3" clearance on all sides.	
	Controller cabinet door hinge area is not cracked & phase diagram is mounted on inside of cabinet door	
	A ground rod is connected inside the cabinet	
	Conduit openings with conductors are duct sealed and spare conduit openings are capped	
	Wires are not nicked and are labeled properly (signals, cameras, interconnect, loops)	
	Heater, fan, light switch, and outlets are all present and work properly	
	Spare equipment supplied to maintaining agency and 1 load switch in cabinet	
	Emergency vehicle pre-emption has been tested and works properly	
X or ✓	TIMINGS	COMMENTS
	Signal timings match the design plans	
	Signal timing plans (time-of-day, day-of-week) are correct	
	Coordination offsets are correct and coordination works properly	
	Signal colors are correct during start-up and during flash operation	
	Advance flashing beacons work properly and timing is correct	
	View alarm history in traffic signal controller	
X or ✓	LOOP DETECTION	COMMENTS
	Loop detector rack is labeled correctly	
	Loop detector cards are not in fault (fault has a constant flashing red light)	

X No or ✓ Yes

X or ✓	INTERCONNECT BETWEEN SIGNALS	COMMENTS
	Interconnect works properly and patch panel box is secured to the cabinet	
	Interconnect cables are not pinched when cabinet door closes	
X or ✓	VIDEO DETECTION	COMMENTS
	Video monitor is installed in the cabinet and works correctly	
	Video detection detects correct traffic and inputs to correct phase	
	Maintaining agency can view camera video from office	
X or ✓	FEED POINT	COMMENTS
	Conduit openings with conductors are duct sealed and spare conduit openings are capped	
	Breakers are labeled and cabinet has padlock	
	Battery backup works properly when power is turned off at the feed point	
X or ✓	STANDARDS / MAST ARMS / HEADS / PULL BOXES	COMMENTS
	In pull boxes: conduits are duct sealed and spare conduits are capped	
	Signing on mast arms is correct and mast arm ends are capped	
	Signal heads are aimed properly and are level	
	Visors and lenses are installed and are not damaged	
	Yellow retro-reflective tape is installed around backplates	
	All backplate screws are installed	
	Drip loops are long enough	
	Standards are plumb and leveling nuts are not loose	
	Rodent screens are installed in the signal bases	
	In signal bases: conduits are duct sealed, spare conduits are capped & terminal block is face down	
	Standards are painted appropriately (any scuff marks have been touched up)	
	Combination signal standards have street lights installed.	
	Span-wire traffic signals have 3 span wires and the wires are not hanging loose.	
X or ✓	PEDESTRIAN PUSHBUTTONS / SIGNS / HEADS	COMMENTS
	Pedestrian pushbuttons are ADA accessible, work, and have correct signs	
	Pedestrian signal heads are aimed properly and are not broken	
	Pedestrian signal heads have solid symbol shapes (not the outline-style shapes)	
X or ✓	DISCUSSION POINTS / OTHER ITEMS	COMMENTS
	Have the signals been operating well? Any problems/complaints?	
	Do the signals go into flash often?	