MIAMI-DADE COUNTY
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS (DTPW)

ADDENDUM NO. 1
April 23, 2024

PROJECT:	Traffic Signal Preventive Maintenance - North Zone Project No. 20240051 (MCC 7040)
BID DUE DATE:	May 1, 2024, 02:00P.M. **(Revised)**
FROM:	Miami-Dade County DTPW Capital Improvements Division 111 NW First Street, 14th Floor Miami, FL 33128 305.375.2930
TO:	Prospective Bidders and Interested Parties

This Addendum forms part of the project solicitation documents and will be incorporated into the Contract Documents, as applicable. Insofar as the Original Contract Documents, Drawings and Specifications are inconsistent, this Addendum shall govern. Please acknowledge receipt of this Addendum, at the time of bid submittal to Miami-Dade County, in the space provided on the "Acknowledgement of Addenda Form" provided with the project solicitation documents. Failure to acknowledge receipt of all addenda may be cause for disqualification.

CHANGES TO BID SUBMITTAL DUE DATE:

1. Change Bid Due Date from Wednesday, April 24, 2024, to Wednesday, May 1, 2024, time, and place remains unchanged.

CHANGES TO THE SPECIAL PROVISIONS:

1. Delete Appendix "B" to the Special Provisions, Preventive Maintenance Checklist, in its entirety and replace it with Revised Preventive Maintenance Checklist for Addendum No. 1 herein.

END OF ADDENDUM NO. 1

Alfredo E. Muñoz, P.E.

Chief, Capital Improvements Division

Department of Transportation and Public Works (DTPW)

AM:jbp

c: Jean Bernard Philippeaux, DTPW
Pedro P. Nuñez, P.E., DTPW
Clerk of the Board
Frank Aira, P.E. DTPW
Caesar Suarez, SBD
Project File

Revised Preventive Maintenance Checklist for Addendum No. 1

TRAFFIC SIGNALS AND SIGNS (TSS) PREVENTIVE MAINTENANCE CHECKLIST					Project:		MIAMI-DADE COUNTY
Intersection:			Asset Number:				
Contractor:							DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
Controller Model and Manufacturer:			Serial Number:			Inspection Date:	
GPS Coordinates →	Controller Location	Latitude		FPL Service Point		Latitude	
		Longitude				Longitude	
Technician Name:			Time In:			Time Out:	

Task	Completed	Remarks
Vehicular Signal Heads		
Perform ground level inspection of signal head alignment and MUTCD compliance. Align signal heads as necessary.	☐Ok ☐N/A	☐Aligned signal heads
Perform ground level inspection of all signal related signing. Note deficiency and include photos.	☐Ok ☐N/A	☐Noted deficiency (photos included)
Inspect and clean lenses and lamps for all approaches • Note deficiency and include photos. • Broken lenses and burned-out lamps must be reported to the TMC immediately.	☐Ok ☐N/A	☐ Noted deficiency (photos included)
Inspect and clean all visors. Note cracked/broken visors and include photos. Tighten all screws securing visors to the signal head.	☐Ok ☐N/A	☐Noted deficiency (photos included)
Inspect traffic signal housing for cracks or damage. Note damaged signal heads and include photos.	☐Ok ☐N/A	☐ Noted deficiency (photos included)
Check terminal block connections. Secure as necessary.	☐Ok ☐N/A	☐Secured
Inspect gaskets and mounting hardware. Retighten as necessary.	☐Ok ☐N/A	☐Retightened
Check vertical clearances for span wire mounted signals. Adjust height as necessary (Check as-built plans)	☐Ok ☐N/A	☐Adjusted height
Check condition of bushing on cable outlet and universal hangers. Note deficiency and include photos.	☐Ok ☐N/A	☐ Noted deficiency (photos included)
Inspect and clean back plates. Note damaged back plates and include photos.	☐Ok ☐N/A	☐Cleaned ☐Replaced ☐ Noted damage
Inspect for signals obstructed by vegetation. Trim tree foliage as necessary.	☐Ok ☐N/A	☐Trimmed
Pedestrian Signal Heads		☐ *There are no pedestrian signal heads.*
Inspect and clean all visors and lenses.	☐Ok ☐N/A	☐Cleaned
Inspect pedestrian housing for cracks or damage. Note deficiency and include photos.	☐Ok ☐N/A	☐Replaced ☐ Noted deficiency (photos included)
Check terminal block connections. Secure as necessary.	☐Ok ☐N/A	☐Secured
Inspect gaskets and mounting hardware. Retighten as necessary.	☐Ok ☐N/A	☐Retightened
Check pedestrian signal head alignment relative to the crosswalk. Align ped heads as necessary.	☐Ok ☐N/A	☐Realigned
Inspect brightness of ped signal heads. Note deficiency and include photos.	☐Ok ☐N/A	☐Replaced module ☐ Noted deficiency
Pedestrian Pushbuttons		☐ *There are no pedestrian pushbuttons.*
Inspect housing for damage. Tighten as necessary. Note deficiency and include photos	☐Ok ☐N/A	☐Retightened
Verify operation for all push buttons at the control cabinet. Correct deficiencies.	☐Ok ☐N/A	☐Corrections made
Note type of pedestrian signal heads.	☐Ok ☐N/A	☐Countdown ped signal heads ☐Non-countdown ped signal heads
Ensure ped signal head operation matches signal timing documents. Contact Area Engineer if discrepancies found.	☐Ok ☐N/A	☐Contacted: _____
Inspect condition of push-button signs. Note deficiency and include photos.	☐Ok ☐N/A	☐ Noted deficiency (photos included)
Signal Poles and Mast Arms		
Ensure that all pole ground lugs are properly bonded to grounding system. Bond as necessary.	☐Ok ☐N/A	☐Bonded
Inspect mast arm grout pads/vermin screens and bolts. Note any deficiencies and include photos	☐Ok ☐N/A	☐ Noted deficiency (photos included)
Tighten bolt covers/caps. Note missing bolt covers and include photos.	☐Ok ☐N/A	☐Tightened ☐Missing bolt covers (photos incl.)
Inspect handhole covers. Secure any loose covers. Note missing covers and include photos.	☐Ok ☐N/A	☐Secured ☐

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Task	Completed	Remarks
Clear drainage holes in pole bases (if applicable).	☐Ok ☐N/A	☐Drain Cleaned
Inspect terminal strip connections. Tighten and label as necessary.	☐Ok ☐N/A	☐Tightened ☐Labeled
Inspect vertical pole caps and mast arm end caps. Note missing caps and include photos.	☐Ok ☐N/A	☐ Noted deficiency (photos included)
Handhole: • Inspect integrity of splices in signal cable • Check ground rod, clamp, and ground wire connection. • Repair any deficiencies.	☐Ok ☐N/A	☐Repaired
Inspect condition of signal cable. Ensure cable is not rubbing against outlets or sharp edges at entrance of poles, brackets, and signal heads. Note deficiencies and include photos.	☐Ok ☐N/A	☐ Noted deficiency (photos included)
Span Wire Signals		
Inspect condition of strain vises. Note any deficiencies and include photos.	☐Ok ☐N/A	☐ Noted deficiency (photos included)
Inspect upper and lower tether span wire for damage, deterioration and excess sag. Note deficiency and include photos.	☐Ok ☐N/A	☐ Noted deficiency (photos included)
Inspect all connecting span wire hardware, including brackets. Tighten loose connections. Note deficiency and include photos.	☐Ok ☐N/A	☐Retightened ☐Replaced
Inspect guy anchors for proper attachment and/or damage. Tighten as necessary.	☐Ok ☐N/A	☐Retightened
Conduit System and Junction Boxes		
Inspect condition of junction box • Replace all missing duct seal. • Refill missing pea rock. • Note cracked pull box lids and include photos.	☐Ok ☐N/A	☐Refill pea rock ☐Replaced duct seal ☐Noted damaged lid (photos included)
Ensure pull box lid title matches use of pull box. Note mismatches.	☐Ok ☐N/A	☐Noted mismatch (photos included)
Remove all debris and overgrowth around junction boxes. Check proper seating of junction box covers. Replace or tighten cover bolts as necessary.	☐Ok ☐N/A	☐Debris removed ☐Replaced ☐Retightened
Inspect grounding and secure all straps and rod connections.	☐Ok ☐N/A	☐Secured
Check above ground conduit for damage. Note damaged and/or missing conduit, weather heads, or straps.	☐Ok ☐N/A	☐ Noted deficiency (photos included)
Inspect junction boxes for proper grade in sidewalks or other roadside surfaces. Note any deficiencies and include photos.	☐Ok ☐N/A	☐ Noted deficiency (photos included)
Traffic Signal Cable		
Inspect all above ground signal cable splices. Note deficiencies and include photos.	☐Ok ☐N/A	☐ Noted deficiency (photos included)
Inspect condition of traffic signal cable for dry rot, nicks, cuts, or other damage to the outer jacket insulation. Note deficiency and include photos.	☐Ok ☐N/A	☐ Noted deficiency (photos included)
Check all connections are tight and terminated correctly.	☐Ok ☐N/A	☐Tightened
Detector Operation (Inductive Loops):		
Inspect all detector loops and verify detection calls in cabinet rack and controller f or each phase with detection. Document any deficiencies.	☐Ok ☐N/A	☐Found deficiency
Ensure proper labeling and splicing for all loop leads.	☐Ok ☐N/A	☐Found deficiency
Retune loop detector amplifier at the cabinet as necessary.	☐Ok ☐N/A	☐Adjusted
Check all detector loops for sealant deterioration, exposed wire, etc. Note any deficiency and include photos.	☐Ok ☐N/A	☐Sealed
Report all damaged inductive loops to TSS project manager. • Approval for loop replacement must be provided by project manager	☐Ok ☐N/A	☐Replaced
Detector Operation (Video Detection):		
Inspect video camera operation. • Confirm vehicle calls on the video controller unit.	☐Ok ☐N/A	
Verify operation and activation of each detection zone. • Reconfigure detection zone as necessary. • Note any processor issues in cabinet.	☐Ok ☐N/A	☐Detection zone reconfigured ☐Processor issues noted
Check video camera positioning with monitor. Adjust alignment as needed.	☐Ok ☐N/A	☐Adjusted
Verify camera cables are secure and labeled for identification of phase/direction in cabinet. Secure and label as necessary.	☐Ok ☐N/A	☐Secured ☐Labeled
Inspect video camera mounting hardware. Tighten any loose connections.	☐Ok ☐N/A	☐Tightened connections.
Inspect camera head for damage. Note any deficiencies and include photos.	☐Ok ☐N/A	☐Deficiency noted (photos included)

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Clean camera lens.	☐Ok ☐N/A	☐Cleaned
Battery Backup System (BBS)		☐ *There is no battery backup system*
Check BBS display for AC IN, UPS Output, and inverter indications. All should be on when utility power is supplied to the cabinet.	☐Ok ☐N/A	
Check battery level and load level displays.	☐Ok ☐N/A	Voltage: Click here to enter text. Volts
Test batteries. Note any deficiencies and low voltage batteries.	☐Ok ☐N/A	☐Bad Battery
Keep a log of events including total battery run time between maintenance checks to help identify problematic locations.	☐Ok ☐N/A	
Clean and secure all battery connections.	☐Ok ☐N/A	
When Generator is present:	☐Ok ☐N/A	
Verify incoming line voltage.	☐Ok ☐N/A	Voltage: Click here to enter text. Volts
Verify DC output to batteries.	☐Ok ☐N/A	Voltage: Click here to enter text. Volts
Verify AC output on inverter.	☐Ok ☐N/A	Voltage: Click here to enter text. Volts
Check electrical connections.	☐Ok ☐N/A	
Test system via simulated power outage at cabinet to ensure operation of automatic transfer switch.	☐Ok ☐N/A	
Check generator transfer switch for corrosion.	☐Ok ☐N/A	
Record events and run times either saved on UPS unit	☐Ok ☐N/A	
Uninterrupted Power Supply (UPS) System		
Load-test all batteries. Note the date and test results on each battery.	☐Ok ☐N/A	☐Tested and marked each battery
Perform 15-minute test.	☐Ok ☐N/A	
Verify bypass switch is operating properly.	☐Ok ☐N/A	
Verify unit is set for 50% fully operational and 50% red flash.	☐Ok ☐N/A	
Inspect and test battery charging system.	☐Ok ☐N/A	
Controller and Meter Cabinets		
Inspect nuts and anchor bolts on traffic signal cabinet. Tighten loose nuts	☐Ok ☐N/A	☐Tightened
Inspect foundation seal: • C heck for evidence of water intrusion • Check the seal at the bottom of the foundation. Reseal if necessary • Check for drainage obstructions. Clean obstructed drains	☐Ok ☐N/A	☐Resealed ☐Drain Cleaned
Inspect cabinet exterior for graffiti, stickers or other unauthorized items. Remove stickers and graffiti. Paint rusty cabinet w anti-corrosive paint.	☐Ok ☐N/A	☐ Removed stickers/graffiti ☐ Painted
Inspect door gaskets for evidence of moisture or deterioration. Replace any gaskets showing signs of leakage or deterioration.	☐Ok ☐N/A	☐Gasket Replaced
Clean cabinet vents	☐Ok ☐N/A	
Replace air filter	☐Ok ☐N/A	
Inspect cabinet fan and ensure proper operation. Replace inoperative fan	☐Ok ☐N/A	☐Replaced fan
Verify proper operation of interior light and switch. Replace if necessary.	☐Ok ☐N/A	☐Replaced
Inspect thermostat. Verify correct temp setting (96). Replace broken thermostat	☐Ok ☐N/A	Temp_____ ☐Replaced thermostat
Inspect main and auxiliary panel harness on cabinet door. Ensure harnesses are not pinched and do not bind against cabinet door. Adjust harness as necessary.	☐Ok ☐N/A	☐Adjusted
Inspect Hinges and Locks. Ensure free movement of all doors, latching assemblies and locks on all enclosures. • Lubricate hinges and locks • Remove excess paint from door locks	☐Ok ☐N/A	☐Lubricated ☐Removed excess paint
Vacuum interior of cabinet. Blow and brush off shelves, terminal blocks and components.	☐Ok ☐N/A	☐Cleaned
Check for signs of ants, wasps or other insects or rodents within the cabinet. Install insect repellent.	☐Ok ☐N/A	☐Insect or rodent issue; corrective action taken
Cabinet Grounding • Check resistance between AC and ground • Check grounding electrode • Check integrity of lighting arrestor • Ensure all grounding & neutral wires are properly tightened to bus bar.	☐Ok ☐N/A	☐Resistance: ☐Tightened connections
Service Connections: Verify the neutral, ground and power connections are secure in the controller and service cabinets. Measure and note service voltage.	☐Ok ☐N/A	Voltage:

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Task	Completed	Remarks
Plug-In Components • Ensure all plug-in components (rack-mounted detectors, relays, load switches, etc.) fit tightly and securely. Secure plug-ins as necessary. • Check for burned or pitted contacts. Replace deficient contacts. • Measure incoming line voltage and amperage. • Measure signal head voltage and amperage.	☐Ok ☐N/A	Incoming line voltage and amperage: Signal head voltage and amperage:
Ensure circuit breakers are not loose or tripped.	☐Ok ☐N/A	☐Tightened
Inspect conduit sealant. Note deficiency and include photos.	☐Ok ☐N/A	☐Deficiency noted (photos included)
Ensure all spare conductors are landed on spare terminal blocks or are taped off.	☐Ok ☐N/A	
Inspect cables for identification tags and landing. Tag and land unidentified cables.	☐Ok ☐N/A	☐Tagged and landed cables
Ensure proper operation of "Test" and "Reset" buttons on GFCI type outlets. Report Faulty GFCI.	☐Ok ☐N/A	☐Faulty GFCI
Inspect intersection records. Ensure all documentation including cabinet wiring diagrams are present and updated. Notify TSS personnel if documents are missing or outdated.	☐Ok ☐N/A	☐Reported to: _____
Perform police (manual) operation for each controller phase. Ensure proper operation.	☐Ok ☐N/A	
Conflict Monitor Unit (CMU): Verify time and date are correct in any CMU with an internal clock. Update time and date as necessary.	☐Ok ☐N/A	☐Updated CMU time and date info
Inspect critical items in controller cabinet, including the controller, conflict monitor, video detectors and loop amplifier cards. Note any deficiencies.	☐Ok ☐N/A	☐Deficiency noted (photos included)
Perform conflict monitor test with the use of CMU Tester: • Provide test report • Replace any bad conflict monitors • Deliver bad conflict monitors to the County	☐Ok ☐N/A	☐Performed test and attached copy of test report ☐Replaced conflict monitor unit ☐Delivered bad conflict monitor to County PM
Verify correct date, time and DST function for controller	☐Ok ☐N/A	
Check controller display panel and communications modem. Report any malfunctions to TSS personnel immediately.	☐Ok ☐N/A	☐Reported to: _____
Verify that all LED and LCD displays and indications on all cabinet equipment are working properly. Report any deficiencies to TSS personnel.	☐Ok ☐N/A	☐Reported to: _____
Meter/Service Disconnect		
Inspect physical condition of meter/service disconnect. Note any deficiencies.	☐Ok ☐N/A	☐Deficiency noted (photos included)
Preemption Devices		
Inspect and clean preemption devices (optical, sonic, etc.)	☐Ok ☐N/A	
Check and verify timing for preemption function, if applicable.	☐Ok ☐N/A	☐Deficiency noted:
Internally Illuminated Street Name Signs (IISNS):		
Check operation of LED/ bulbs for IISNS. Replace LED/Bulbs as necessary.	☐Ok ☐N/A	☐Replaced
Inspect mounting hardware. Tighten connections as necessary.	☐Ok ☐N/A	☐Tightened
Perform nighttime check of illuminated street name signs at all signalized intersections. Note deficiencies and include photos.	☐Ok ☐N/A	☐Deficiency noted (photos included)
Verify that the IISNS is adequately connected to frame, clamp and brackets, and no panel is broken or missing. Note broken or missing panels and include photos.	☐Ok ☐N/A	☐Deficiency noted (photos included)
General		
Verify timing charts to controllers: If they are not correct, contact the Engineer to verify differences.	☐Ok ☐N/A	☐Contacted: _____
Rust: Report significant areas of rust on cabinet exterior and signal poles.	☐Ok ☐N/A	☐Rust
Trim trees to clear all obstructions within 10 feet of traffic signal components. Contractor is responsible to pull necessary permits as specified under Article 1.06 C of the General requirements.	☐Ok ☐N/A	☐Removed obstruction
Whenever the above listed items have been vandalized, rusted, oxidized, missing, frayed, defective, damaged, or have stopped functioning for whatever reason, the repairing, cleaning, or replacing will be defined as routine maintenance, therefore, no additional compensation will be made for the work above.	☐Ok ☐N/A	
Activities that may cause the signal to go into FLASH should always be performed outside of peak hours.	☐Ok ☐N/A	
Repairs Done or New Equipment Installed Since Last Inspection		
Document any repairs done since the previous inspection cycle and any pertinent notes:		