

SPECIFICATIONS FOR REFURBISHMENT OF TDOT MESSAGE BOARDS

Specifications for the Portable Trailer Mounted Message Board refurbishment are listed below:

- 1) **CHANGEABLE MESSAGE DISPLAY:** The display must be new and capable of three lines of 18” high text, all LED display, self-contained on board computer. Display must be 131” x 76”. It should support up to at least 215 predefined messages. The entire board mounting assembly, the message panels and front protective panels must be new. Must be National Transportation Communications for ITS Protocol (NTCIP) compliant.
- 2) **COMPUTER:** Must be a new self-contained on-board computer with Quick Message Select Switch. Must not be the removable type computer. Must meet NTCIP and DOT requirements. Must be compatible with the changeable message display.
- 3) **BATTERY COMPARTMENT:** Must be clean with pressure washer, wire brush rust areas and free of all dirt and corrosion. All areas of corrosion must be cleaned to bare metal. Repairs if needed will be primed with a rust inhibitor primer before painting.
- 4) **WIRING:** Wiring harness from the computer to the board must be replaced with new (Vendor responsible for all labor, wire, and connectors for complete job). Trailer lighting will be replaced with new OEM lighting with tail lights, brake light, turn signals and lighted license plate bracket. New wiring will be installed with a 4 wire flat connector. The requester can request a different type connector if needed. No splicing of any wiring will be allowed without the use of a weather pack sealed connector (approved by the requestor).
- 5) **BATTERIES:** Batteries will be replaced with new 4-12 volt 360 amp 8D batteries. If battery box does not permit 12 volt batteries, 6V batteries can be substituted at the same price if pre-approved by the requester. (Vendor responsible for labor, cables – if necessary, and connectors for complete job). Battery wiring will be replaced. All battery wiring will be replaced.
- 6) **BATTERY CHARGER:** Must be replaced with at least a 60 amp battery charger. (110 volt)

- 7) **PAINT:** The entire unit will be painted using Safety Orange paint. All areas of corrosion must be cleaned to bare metal. Repairs will need to be primed with a rust inhibitor primer before painting.
- 8) **JACKS:** The 4 new leveling jacks on each corner of the unit. They will be 15” tall top winding with rotating swivel to park the jack in the travel position.
- 9) **ITEMS NOT COVERED BY CONTRACT LINES:** Repairs not covered by the contract lines must be approved by the requester before work is completed. The requestor can approve parts not included in this contract on a separate purchase order as long as purchasing procedures are followed. (IE: fenders, wheels, tires, radar, modems and software).
- 10) **Remote Control:** Possibility of adding remote communications system allows you to monitor, program and run diagnostics on our variable message signs from a remote location. Remote communication with the sign saves travel time, enhances safety, and reduces the need for training of off-site personnel.
- 11) **REQUIREMENTS:** The Board must meet all NTCIP and DOT requirements.
- 12) **TRANSPORTATION:** It is the vendor’s responsibility to transport message boards from the TDOT facility to their repair facility. After repairs are preformed, the vendor will transport the message board back to the TDOT regional facility.
- 13) **TRAINING:** If requested the vendor will supply training at a time convenient for both parties but not to exceed 30 days from date of request. The vendor shall be available by phone for normal business hours.
- 14) **WARRANTY:** One year warranty on all replaced parts.

NOTE: The repaired board will have all new components from the awarded bidder so the current brand of board has no bearing on the bid specifications. It is the intent of this contract to have the boards returned in like new condition.

Region Facilities:

Region 1
7345 Region Lane
Knoxville TN 37914

Region 3
6601 Centennial Blvd
Nashville, TN 37243

POC: Roger Toole
865-594-2697

POC: Bill Hamilton
615-350-4424