

Item 600 Series – 2024 Specification Book Rewrite



September 19, 2024



Item 610 – Roadway Illumination Assemblies

Materials – added note "Provide punched, drilled or mechanically guided thermal-cut holes in steel parts or members, when allowed, before galvanizing."





Item 610 – Roadway Illumination Assemblies, (Cont'd)

- Construction "Sampling fixtures for testing in accordance with Tex-1110-T" was removed.
- Construction: Relocation added clean optical assembly when reusing
- Construction: Replace Luminaires added replace conductors and breakaway fuseholders when necessary.





Item 613 – High Mast Illumination Poles

- Construction: Fabrication
 - Added ultrasonic testing of seam welds
 - added note "Provide punched, drilled or mechanically guided thermal-cut holes in steel parts or members, when allowed, before galvanizing."
 - Added "Preform ultrasonic testing of base plate weld joint after galvanizing ... to determine if any toe cracks are present..."





Item 614 – High Mast Illumination Assemblies

- Description added new item for Replace Luminaires (Light Fixtures). Remove and replace existing luminaires.
- Materials added that new light fixtures will be "High Mast LED Light Fixtures."
- Construction: Installation modified "assemble the ring halves and support assembly in the shop to ensure proper fit, and match-mark the ring halves and support assembly before shipping."





Item 614 – High Mast Illumination Assemblies, (Cont'd)

 Replace Luminaires – added instructions to Construction, Measurement, and Payment sections for replacement of high mast luminaires.





Item 616 – Performance Testing of Lighting Systems

Construction - Removed acceptance of the Contract as a requirement to relieve Contractor of maintenance responsibilities. Contractor only has to pass 14 day performance test before turning maintenance over to Department.





Item 617 – Temporary Roadway Illumination

- Changed Description, Measurement, and Payment to: Setup and Removal, and Maintain Roadway Illumination.
- Setup and Removal is measured by each Roadway Illumination Assembly installed and removed. A relocation is considered an instance of Setup and Removal.





Item 617 - Temporary Roadway Illumination, (Cont'd)

- Maintain Roadway Illumination is measured by the Month and covers maintenance of the complete illumination system.
- Payment Electrical service responsibilities were changed to match Item 681 Temporary Traffic Signals.





Item 647 – Large Roadside Sign Supports and Assemblies

- Description added Replacement. Replace existing large roadside sign assemblies.
- Construction
 - Deleted text within 3.2 Installation. "At the Contractor's option, sign supports may be cast in the concrete foundation as a unit. However, if installation is made with the upper post section attached, do not expose the support to traffic until the sign panel is properly affixed, unless otherwise approved."
 - Deleted text with 3.3 Relocation. Or lengthen "Reuse the existing supports and shorten or lengthen them as ..."



Item 650 – Overhead Sign Supports

- Materials Added Item 420, "Concrete Sub Structures"
- Construction: Alternate Design
 - Added wording to require COSS plan and elevation sheets, COSS & OSB-SZ table sheets, and any other sheets needed to support design calculations
 - Changed all instances of "size of pipe" to "pipe diameter and wall thickness"





Item 650 – Overhead Sign Supports, (Cont'd)

- Construction: Alternate Design
 - Added "Tapered columns are permitted if the provided calculations demonstrate that the column is adequate at the level of the truss-tocolumn connection"
- Construction: Fabrication
 - Added details for monotube-type overhead sign supports
 - Added text about Ultrasonic Testing (UT) and measuring required dimensions
 - Shop assembly of monotube sign supports to ensure compliance for all dimensions and fit





Item 650 – Overhead Sign Supports, (Cont'd)

- Construction: Galvanizing
 - added note "Provide punched, drilled or mechanically guided thermal-cut holes in steel parts or members, when allowed, before galvanizing."





Item 654 – Sign Walkways

Construction: Fabrication (new text in bold)

Fabricate and weld sign walkways in accordance with Item 441, the requirements of this Item; and AWS D1.1. Fabrication plants that produce sign walkways must be approved in accordance with DMS-7380, "Steel Non-Bridge Member Fabrication Plant Qualification." The Materials and Tests Division maintains a list of approved sign walkway fabrication plants on the Department's MPL.



Item 656 – Foundations for Traffic Control Devices

No major changes



Item 680 – Highway Traffic Signals

- Updated wiring guidance
 - 14AWG traffic signal cable
 - Cat 6 outter jacket coloring coding
 - Railroad preemption individual conductor color coding
- Cabinet
 - Components
 - Facing and railing

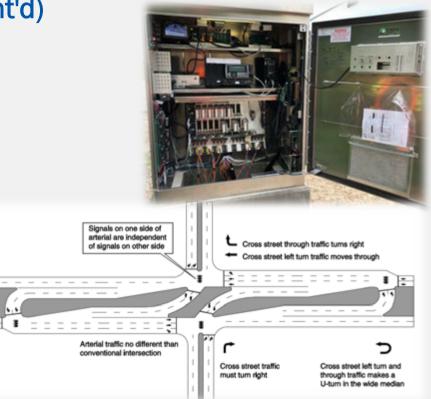


Source: Goggle Earth accessed on 12/21/2023



Item 680 – Highway Traffic Signals (Cont'd)

- Test period response time
- Upgrade
- Payment
 - By Cabinet (e.g. RCUTs)
 - Span wire paid under Item 625
 - Signs paid under Item 636 or SS



Source: FHWA-SA-14-070: Restricted Crossing U-turn Informational Guide.



Item 681– Temporary Traffic Signals

- Operation and Maintenance
 - Response time (matches Item 680)
 - Remote access (TxDOT provided equipment)
- Payment
 - Added Portable signals





Item 682– Vehicle and Pedestrian Signal Heads

- Added "Removal".
- Updated wiring construction guidance.
 - Install drip loop.
 - Only strip outer jacket at point of termination.
 - Guidance on wiring adjustments when removal is used.



Source: Goggle Earth accessed on 12/21/2023



Item 685– Roadside Flashing Beacon Assemblies

- Minor changes in language
 - Edits.
 - Removal of extra terms.

Payment - adding in required wording(batteries and battery box).

5.1. Installation. This price is full compensation for furnishing, fabricating, galvanizing, assembling, and erecting the roadside flashing beacon assemblies, including poles and bases; solar power flashing controller assemblies, including <u>batteries and battery box (when required);</u> foundations; conduit in the foundation and within 6 in._of the foundation; furnishing and placing anchor bolts, nuts, washers, and templates; controller; and materials, equipment, labor, tools, and incidentals.

5.2. Relocation. This price is full compensation for removing the roadside flashing beacon assemblies; removing battery box (when required); removing existing foundations; installing new foundations; installing new conduit in the foundation and within 6 in_of the foundation; furnishing, fabricating, and installing any new components as required and replacing the assembly on its new foundations with all manipulations and electrical work; controller; <u>batteries; battery box;</u> salvaging; disposal of unsalvageable materials; loading and hauling; and materials, equipment, labor, tools, and incidentals.



Source: Goggle Earth accessed on 12/22/2023



Item 686- Traffic Signal Pole Assemblies (Steel)

- Added "Removal".
- Expanded language on LMAs



Source: Goggle Earth accessed on 12/21/2023