

Special Provision to Special Specification 6524

Decorative Metalwork LED Backlighting



Special Specification 6524 "Decorative Metalwork LED Backlighting," is amended with respect to the clauses cited below. No other clauses or requirements of this Item are waived or changed.

Article 2., "Materials," is voided and replaced by the following:

Provide new materials that are in accordance with the details shown on the plans, the requirements of this Item, and the pertinent requirements of the following Items.

- Item 420, "Concrete Substructures"
- Item 421, "Hydraulic Cement Concrete"
- Item 427, "Surfaces Finishes for Concrete"
- Item 441, "Steel Structures"
- Item 442, "Metal for Structures"
- Item 446, "Field Cleaning and Painting Steel"
- Item 447, "Structural Bolting"
- Item 448, "Structural Field Welding"
- Item 449, "Anchor Bolts"
- Item 616, "Performance Testing of Lighting Systems"
- Item 618, "Conduit"
- Item 620, "Electrical Conductors"
- Special Specification 6525, "Decorative Medallion Assembly with Light-Emitting Diode (LED) Backlighting."
- **Decorative Metalwork LED Backlighting (Type 1).** Metal work sculptures of laser-cut pre-perforated aluminum panels in a sun and sun beams shape with white polycarbonate backing and internal LED backlighting and mounted on riprap with steel angles, steel plates and anchor bolts as indicated on the drawings, shop-prepared and acid treated coating system to the color and shades indicated on the drawings.
- **Decorative Metalwork LED Backlighting (Type 2) (Small Structure).** Steel square and rectangular post with concrete foundation with a mounted pre-perforated and solid corten steel sheets forming a steel box with internal LED backlighting as detailed on the plans. A 2-ft. wide concrete pad at the bottom of front face to be constructed as part of the structure as shown on the plans and will be paid for under this Item. Construction and installation of the LED illumination metal Texas star in front face of the structure facing the roadway as shown on the plan details will be paid under Special Specification 6525, "Decorative Medallion Assembly with Light-Emitting Diode (LED) Backlighting."
- **Decorative Metalwork LED Backlighting (Type 3) (Long Rectangular Structure).** Steel square and rectangular post with concrete foundation mounted pre-perforated and solid corten steel sheets forming a rectangular steel box with internal LED backlighting as detailed on the plans. A 2-ft. wide concrete pad at the bottom of front face to be constructed as part of the structure as shown on the plans and will be paid for under this Item. Construction and installation of the LED illumination metal Texas star in front face of the structure facing the roadway as shown on the plan details will be paid under Special Specification 6525, "Decorative Medallion Assembly with Light-Emitting Diode (LED) Backlighting."

Unless otherwise shown on the plans, provide new materials that comply with the requirements of the NEC, UL, and NEMA.

Provide basis of design (BOD) LED backlighting product with salient characteristics indicated or accepted equal product. Provide a continuous 5/8-in. wide, low-profile, flexible, linear, solid-state, IP67 wet location, LED light strip system in silicone sleeve that

emits at least 206.68 lumens per foot to outline and backlight each separate decorative metalwork piece mounted to riprap or mounted on a concrete foundation where indicated. BOD LED backlighting product is Vivid Wave ETL 1598 by Green Led Lighting Solutions, 1-888-580-6366, www.glls.com. Vivid Wave ETL 1598 is an exterior LED light available in different colors, 128.05 lumen per foot, 120V AC, 3.05 W per foot with 5-yr. limited warranty.

Materials include conduit, conductors, cables, fixtures, enclosures, LED drivers, LED strips, distribution box, transformer, mounting assemblies, and incidental components for installation of the decorative metalwork LED backlighting system.

Provide digital PDF shop drawing submittals showing the decorative metalwork with LED backlighting (Type 1), (Type 2), and (Type 3) assemblies for approval. Submit shop drawings of all metalwork with gate door, hinges, latch, anchoring, and fasteners coordinated with layout and mounting of LED backlighting system.

Obtain approval on the submittals before initiating purchase of materials and beginning work. Furnish two copies of the completed material identification form to the Engineer before beginning fabrication.

Provide shop drawings showing layout, dimensions, spacing of components, anchorage, and installation details. Include details for steel fabrication, including structural welding, finishing, and fastening.