

BIDDER QUESTION RESPONSE

December 14, 2016

PROJECT: Port of Kingston – Covered Moorage Roof Replacement

This question response forms a part of the Contract Documents and modifies the original Quote Requirements dated November 16, 2016 as noted below. Acknowledge receipt of this questions response in the space provided on the Bid Form. Failure to do so may subject Bidder to disqualification.

This Question Response **does not** change the bid opening date or time.

1. Bidder Question: Is there an alternate procedure to spray metalizing to repair the column bases noted on plan and in detail 1/S5.05?

Response: Alternate procedures to repair of the damage columns may be submitted to the engineer for approval. The following are additional approved alternatives:

- a) Apply hot stick galvanizing repairs in accordance with the drawings and specifications. Hot stick repairs shall provide a uniform finished surface consistent with the existing undamaged finished surface. Hot stick repairs shall be coated in with a zinc-rich paint in accordance with the drawings and specifications.
- b) Apply two (2) coats of zinc-rich paint with a base dry-coating minimum thickness of 6 mils. Top coat thickness shall be in accordance with the finished coating noted for hot stick galvanizing repairs. Surface preparation for the base coat at damaged galvanizing shall be in accordance with hot stick galvanizing repairs.

Should spray metalizing be elected, the Contractor shall adhere to the following:

Following cleaning and preparation, spray metalize the columns and base plates with a pure zinc coating per the SSPC CS-Guide 23.00, Current Edition. The coating shall have a dry film thickness of 10-12 mils. The coating thickness shall be measured per SSPC-PA 2 with the following modification: no single measurement, including those that create a spot measurement, shall be less than 70% of the minimum required dry film thickness. The specified coating thickness shall be applied in several crossing passes laying down approximately 3 to 4 mils for each pass. The deposited coating system shall be uniform without blisters, cracks, loose particles, or exposed steel as examined with 10x magnification.

The Contractor shall perform one portable tension-bond measurement for 10% of the locations to be surface coated.

The Contractor shall conduct a bend test at the beginning of each work shift or crew change:

- a) Use carbon steel coupons of approximate dimension 2 in. x 4 in. x 8 in x 0.050 in.
- b) Surface preparation according to contract specifications.
- c) Bend coupons 180 degrees around a 0.5 in, diameter mandrel.
 - a. Bend test passes if there is no cracking or only minor cracking with no spalling or lifting (by a knife blade) from the substrate.
 - b. Bend test fails if the coating cracks with lifting (by a knife blade) from the substrate.

Thermal spraying in low-temperature environments, less than 40 degrees F shall comply with SSPC-CS 23.00 requirements.

Seal the spray metalized coating a zinc-rich epoxy paint in accordance with procedures outlined in hot stick galvanizing repair. The top coat seal should be applied as soon as possible after thermal spraying and preferably within eight hours.

Contractor shall protect the existing structures, utilities, pile wrap systems, etc. by means of shielding, taping, or similar. Any damage to the existing components shall be repaired by the Contractor at no cost to the Owner.

The Contractor performing the work shall submit detailed procedures conforming to Section 5 (Surface Preparation) and Section 7 (TSC Application) of SSPC-CS 23.00. The procedures shall detail the equipment application process, in-process quality control, Job Reference Standard (JRS) and the Job Control Record (JCR). The Job Reference Standard (JRS) shall comply with SSPC-CS 23.00 requirements. The Job Control Record (JCR) shall be similar to the Model Job Control Record included in Appendix B of SSPC-CS 23.00.

2. Bidder Question: Please provide clarification between reference to Orkin Pest Control on drawing Sheet S0.02 and Bird Barrier per Specification 10 81 13.

Response: Orkin Pest Control is an approved provider of Bird Barrier product. As noted in the drawings and specifications, approved equals may be submitted to the engineer for approval. Bird deterrent system shall be installed by company specializing in bird deterrent systems of the type specified with a minimum of 5 years documented successful experience.

3. Bidder Question: Please provide clarification on the coating of aluminum roofing as noted in Specification 07 41 13.

Response: Specification 07 41 13, Part 2, Section 2.5.A.3 shall be replaced with the following:

3. Material Finish:

i. Surface: Stucco Embossed

ii. Paint Finish:

(a) Exterior: As selected from manufacturer's premium finishes.

(b) Color: As selected from manufacturer's full range.

(c) Two-Coat Fluoropolymer: AAMA 2605 ((Kynar[®] 500/Hylar[®] 5000), or approved equal. Fluoropolymer finish containing not less than 70 percent PVDF resin by weight in color coat. Prepare, pretreat, and apply coating to exposed metal surfaces to comply with coating and resin manufacturer's written instructions.

END OF BIDDER QUESTION RESPONSE