June 17, 2016

GOLDEN GATE BRIDGE
HIGHWAY & TRANSPORTATION DISTRICT

GOLDEN GATE BRIDGE
PHYSICAL SUICIDE DETERRENT SYSTEM
FEDERAL-AID PROJECT: BHLS-6003(051)
and
WIND RETROFIT
FEDERAL-AID PROJECT: BHLS-6003(052)

Contract No. 2016-B-1

To: Prospective Bidders

RE: **Response to Bidders' Question No. 218 through 225**

Ladies and Gentlemen:

The following are the responses to questions submitted by prospective bidders and designated as Bid Question No. 218 through 225:

BID QUESTION No. 218:

With regard to items 141000, 150608, 800100A, 800100B, 800365, 803100 – please provide further clarification as to the quantities provided for the fencing items mentioned. Only drawing numbers C001 and S274 display any sort of fencing. Based on these two drawings there is not enough information given to verify the quantities provided.

RESPONSE:
See Addenda 3, 4 and 8 for revised Contract Drawings and revised Sections 15 and 80. Revised Section 15-2.02M, Remove Chain Link Fence, adds locations and payment provisions for removal of existing chain link fence. Revised Section 80-12.04, Payment, revises the payment provisions for installing and removing temporary security fence.

The quantity listed on the Engineer's Estimate for Item No. 9 (Contract Item 141000), Temporary Fence (Type ESA), is an estimated quantity and the actual quantity to be installed is dependent on the amount of this type of fence needed to protect Environmental Sensitive Areas as specified in Section 14-1.03, Type ESA Temporary Fence. The actual quantity of this type of fence to be furnished and installed will be as directed by the Engineer.

The quantity listed on the Engineer's Estimate for Item No. 11 (Contract Item 150608), Remove Chain Link Fence, is an estimated quantity based on the length of the existing chain link fence along the east sidewalk over the Fort Point Arch as shown on revised Contract Drawing S001 and at other locations along the Bridge as directed by the Engineer . The actual payment quantity for this Item No. 11 will be the measured quantity along the length of the fence removed.

The quantity listed on the Engineer's Estimate for Item No. 54 (Contract Item 800100A), Install Temporary Security Fence, is an estimated quantity based on the limits of new temporary security fence to be installed as shown on revised Contract Drawing S001. The actual payment quantity for this Item No. 54 will be the measured quantity along the length of the fence installed.

The quantity listed on the Engineer's Estimate for Item No. 55 (Contract Item 800100B), Remove Temporary Security Fence, is an estimated quantity based on the limits of existing and new temporary security fence to be removed as shown on revised Contract Drawing S001. The actual payment quantity for this Item No. 55 will be the measured quantity along the length of the fence removed.

The quantity listed on the Engineer's Estimate for Item No. 56 (Contract Item 800365), Temporary Chain Link Fence (Type CL-6, Slatted), is an estimated quantity and the actual quantity to be installed is dependent on the amount of this type of fence needed to screen materials, equipment or work and for protection of the Environmental Sensitive Areas as specified in Section 80-11, Temporary Fences. The actual quantity of this type of fence to be furnished and installed will be as directed by the Engineer.

The quantity listed on the Engineer's Estimate for Item No. 58 (Contract Item 803100), Post and Cable Fence, is an estimated quantity and the actual quantity is dependent on the amount of new post and cable fence needed and the amount of repair of pre-construction damage to existing post and cable fence needed as specified in Section 80-13, Post and Cable Fence. The actual quantity of this type of fence to be furnished and installed or repaired will be as directed by the Engineer. Note that the post and cable fence shown on revised Contract Drawing C001 is existing post and cable fence and this drawing does not indicate where new post and cable fence needs to be installed.

Contract Drawing S274 provides details for temporary security fences and does not show locations of temporary security fences. As stated above, the location of temporary security fences are shown on revised Contract Drawing S001.

BID QUESTION No. 219:

Resubmittals - 5-1.23B(1)(a)

5-1.23B(1) describes the very strict guidelines by which the District can reject a submittal. 5-1.23B(1)(a) states the District has the full review period for all submittals, which are described in the first paragraph as either "at least 30 days" or "a minimum of 45 days".

1. Since there is no maximum # of days listed and it is not reasonable for the Contractor to assume each submittal has an unspecified # of days in excess of 30 or 45 days, please, confirm the Contractor should assume only 30, or 45 days for a review period (based on the described submittal classification).
2. The Contractor assumes the District will work to minimize the review period for all resubmittals. Please, confirm the Contractor should not assume full review periods for resubmittals in the baseline schedule and subsequent schedule updates.

RESPONSE:

1. *Section 8-1.02D(4), Data, Network Diagrams, and Reports, states that in all schedules, the Contractor must include identification of the preparation, submittal and approval of all submittals required in the Contract and the indication of the number of days allowed under the Contract for the Engineer to review and take action with respect to each submittal.*

   For the duration of a submittal review activity in a schedule, the Contractor must use the thirty (30) days or forty-five (45) days review period specified in Section 5-1.23B(1)(a), Engineer's Action, for a particular type of submittal.

2. *The District will work to minimize the review period for all re-submittals but the review period and the number of re-submittals is dependent on the quality of the submittals prepared by the Contractor. A clear and complete submittal or re-submittal that meets the Contract requirements will usually take a shorter time for the District to review and approve.*

   As stated above, for the duration of a submittal or re-submittal review activity in a schedule, the Contractor must use the use the thirty (30) days or forty-five (45) days review period allowed in Section 5-1.23B(1)(a) for a particular type of submittal.

BID QUESTION No. 220:

Resolving any and all field
Conflicts - 8-1.08A

The sixth paragraph reads, "For all permanent and temporary work, prior to submitting your working Drawings to the Engineer, you must take field measurements, verify all controlling field dimensions and resolve any and all field conflicts required:
(i) for the attachment of all temporary and permanent work to the existing structure; and
(ii) for the proper and adequate fabrication and installation of all temporary and permanent work
The seventh paragraph reads, "Do not fabricate any material nor perform any field installation work until your Working Drawing submittal has been approved by the Engineer."

1. Does this section and specifically this paragraph apply to the temporary struts used in the sequence to attach the permanent cantilever net support? For example, since the temporary strut is simple plate or angle iron, the Contractor would assume it could order stock material and field fit these struts. Please, confirm this approach acceptable.

RESPONSE:
See Addendum 5 for revised Contract Drawings. The revised Construction Sequence for installing the Type 1 Net Supports and the SDNS on these supports is shown on revised Contract Drawing Z006. The revised Construction Sequence now states that temporary braces, not temporary struts, are to be installed at border cable splice locations prior to installing the SDNS at these splice locations. The details for the temporary braces are shown on revised Contract Drawing S119.

The Contractor's assumption that they may order stock material and field fit the temporary braces without performing field measurements and field verification for the temporary braces is incorrect. Section 8-1.08A, General, pertains to all permanent and temporary work including the temporary braces used for installing the Type 1 Net Supports and the SDNS on these supports. The Contractor must perform field measurements, verify all controlling field dimensions and resolve any and all field conflicts in accordance with Section 5-1.26A, Field Measurements. Copies of all documentation for field measurements and verification of existing conditions must be submitted to the Engineer with the corresponding Working Drawings. These Working Drawings must be approved by the Engineer prior to fabrication.

BID QUESTION No. 221:

2. If not, this will potentially add a great deal of time to many critical path work items. In order to expedite the schedule and limit Contract expenses, the Contractor assumes it can proceed with this fabrication Work, prior to the District's approval of field measurements of this temporary attachment, at its own risk (contrary to the requirements of the seventh paragraph)? Please, confirm this approach is acceptable.

RESPONSE:
See the District's response to Bidder's Question No. 220. The Contractor's assumption that they may proceed at their own risk with the fabrication of the temporary braces prior to the Engineer's approval of the Working Drawings for these braces is incorrect. In accordance with Section 8-1.08A, General, the Contractor must not fabricate any material nor perform any field installation work until the Working Drawings, which includes copies of the documentation of field measurements and field verification for the material, has been approved by the Engineer.

BID QUESTION No. 222:

Are there any restrictions with regard to staging small equipment and/or material on the West sidewalk?

RESPONSE:
Yes. See Addendum 11 for revised Section 5-1.37(B) which specifies the load limits on the sidewalks and revised Section 12-4 which specifies the requirements and restrictions for work areas and storage areas on the Bridge sidewalks.

BID QUESTION No. 223:

Wet stamp; 5-1.23A(1)

The second paragraph reads, "If the Special Provisions require that a submittal be signed by a registered engineer, the registered engineer must wet-stamp and sign the submittal."

Since, there is a high probability the travelers and net systems will be designed and sealed by professionals outside of the Bay Area, it may take the Contractor a few days to provide a "wet copy" of the engineer's stamp. Please, confirm the District will begin the review process with a scanned copy of a sealed submittal.

RESPONSE:
The District will begin the review process with a scanned copy of a sealed submittal. The District will not complete its review until the original wet-stamp and signed submittal is received.

BID QUESTION No. 224:

In an effort to fully understand the existing bottom traveler trolley beam connections we have reviewed the available 1953 Bottom Lateral As-Built Drawings and the 1955 Traveling Scaffold As-Built Drawings but have been unable to locate this detail. Can the District please provide the existing connection details for the bottom traveler trolley beam?

RESPONSE:
See the District's response to Bidder's Question No. 166. Details for the connection of the existing bottom traveler trolley beams to the rail girders are included in Contract 23 record drawings, see sheet nos. 13, 14, 15, 40, 52 and 52A of Contract 23-S4235. The complete set of record drawings for Contract 23 is available for review by Bidders in accordance with Section 2-1.06, Supplemental Project Information.

BID QUESTION No. 225:

Paint Spec. Section 59-3.03

Specification 59-3.03, Construction, for painting of galvanized surfaces states "Coating systems for applying over exposed galvanized surfaces must consist of 2 undercoats and a finish coat. Undercoats and finish coat must be from the same manufacturer."

The Coating system is further defined as "Coating systems must comply with the requirements in Section 91 and the following:"

Coating System

Description	Coating	Dry film thickness (mils)
1st undercoat	MCU zinc-rich primer	3–4
2nd undercoat	MCU intermediate coat	3–4
Finish coat	MCU finish coat or acrylic top coat	2–3 for MCU finish coat or 5-8 for acrylic top coat
Total thickness, all coats		8–16

Specification 59-3.03B, Top Coating of Exposed Galvanized Surfaces, describes a three coat system: "*All exposed galvanized steel surfaces, including exposed surfaces of fastener nuts, heads, threads and washers, and shim plates must be prepared and painted with the three coats of the paint system in conformance with this Section.*"

Section 59-3.03A, Cleaning and Painting Completed Connections, describes the required steps for painting connections: "*After a connection is completed and after all inspections and testing have been performed, all exposed surfaces of steel fasteners, shim plates, nuts, heads, threads, and washers must be mechanically cleaned and* ***field painted with two (2) coats of a single component zinc-rich MCU primer by brush methods.*** *The mechanical cleaning method used to clean these surfaces must be in accordance with the paint manufacturer's recommendations. The single component zinc-rich MCU primer applied to galvanized fasteners must meet the minimum requirements as specified in Section 59, including adhesion, and must be tested for adhesion at the same frequency.*

In addition, ***after the two coats of a single component zinc-rich MCU primer*** *have been applied to all exposed surfaces of galvanized fasteners and other galvanized steel surfaces, the same surfaces must have the* ***2nd undercoat*** *and* ***finish coat*** *applied as specified in Section 59-2.03C.*

Upon completion of all coats, the gaps between bolt, nut, washer, and steel surface interfaces must be inspected to ensure they are completely covered with paint."

Note that this process includes 2 coats of 1st undercoat + 1 coat of 2nd undercoat + 1 coat of finish coat = a total of **4 coats of paint**.

A. The Contractor assumes the statements in Section 59-3.03A "*field painted with two (2) coats of a single component zinc-rich MCU primer by brush methods* " is correct and "***after the two coats of a single component zinc-rich MCU primer*** have been applied to all exposed surfaces of galvanized fasteners and other galvanized steel surfaces, the same surfaces must have the ***2nd undercoat*** and ***finish coat*** " is incorrect and not required. Please confirm it is the intent of the District to have a total of three coats for galvanized surfaces.

B. For the 1st undercoat, is it the District's intent that 2 coats of zinc-rich MCU primer be applied for a total dry film thickness of 3-4 mils or should each of the two coats be 3-4 mils totaling 6-8mils for the 1st undercoat? Please clarify which is preferred. The Contractor assumes the 1st undercoat requires a combined thickness of 3-4 mils.

C. If more than 3-4 mils are required for the 1st undercoat, please confirm how this affects the total thickness of all coats, would it increase from the 8-16 mils specified in this section? Please clarify.

RESPONSE:
See Addendum 11 for revised Section 59-3.03. Revised Section 59-3.03, Construction, clarifies the requirements for cleaning and painting new galvanized structural steel.

A. *In accordance with Section 59-3.03, coating systems for applying over exposed galvanized surfaces must consist of 2 undercoats and a finish coat, for a total of 3 coats, except for exposed surfaces of steel fasteners, shim plates, nuts, heads, threads, and washers which must consist of 2 coats of the 1st undercoat, the 2nd undercoat and the finish coat, for a total of 4 coats.*
B. *For exposed galvanized surfaces, except for exposed surfaces of steel fasteners, shim plates, nuts, heads, threads, and washers, the 1st undercoat must be applied to a dry film thickness of 3 to 4 mils. For exposed surfaces of steel fasteners, shim plates, nuts, heads, threads, and washers, 2 coats of the 1st undercoat must be applied, each with a dry film thickness of 3 to 4 mils, for a total dry film thickness of the 1st undercoat of 6 to 8 mils.*
C. *For exposed galvanized surfaces, except for exposed surfaces of steel fasteners, shim plates, nuts, heads, threads, and washers, the total dry film thickness of all coats must be 8 to 16 mils as shown in the first table in Section 59-3.03. For exposed surfaces of steel fasteners, shim plates, nuts, heads, threads, and washers, the total dry film thickness of all coats must be 11 to 20 mils as shown in the second table in Section 59-3.03.*

Sincerely,

John Eberle, P.E.
Deputy District Engineer