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August 22, 2022

Addendum Number 5

ITB 22-02-209508

Trail River Bridge 25.7 and Falls Creek Bridge 25.4 Replacements

This Addendum is being issued to provide information as follows:

1. Reference Appendix H, page 222, Substantial and Final Completion dates are changed as follows:

“Substantial Completion: Substantial Completion shall be on or before **15 April 2024**, unless accepted and agreed upon otherwise by the Owner.

Final Completion: Final Completion of all work shall be on or before **15 June 2024**.”

2. ARRC has elected to move the allowable time frame for the up-to 90 day continuous shutdown to between January 15, 2024 and April 15, 2024.

Note:

- 90 days is the maximum that can be approved by ARRC, shorter is preferable.
- Other shorter closures may be allowed upon ARRC approval outside of passenger season (typically May to September 18th).
- Shutdown window is dependent on approved environmental permits and FRA approval.
- Some project elements may be completed in advance before the shutdown or in spring after the shutdown under light traffic, such as: surfacing, partial track raise, bridge shimming of BR 25.7, potential replacement of BR 25.4, crossing, paving, utility work, clearing etc.
- The contractor can elect to complete certain project elements in fall/winter 2022/2023 under light freight traffic upon approval by ARRC.

Question & Answers:

3. **Q:** Due to long lead times on materials required for the construction of this project, can the substantial and final completion date be moved to the following year?

A: Please refer to Item #1 above.

4. **Q:** What is the status of the environmental permit applications?

A: ADF&G has indicated they would issue an open permit for pile installation and removal. At this time contractors can assume pile driving will be allowed between October 1 and April 15. Pile removal will be allowed between October 1 and June 15.

5. **Q:** Addendum #2 Revised Bid Schedule: Bid item B-16, Furnish Str. Steel Piles, 12" diam x 0.50", Galv. - Revised bid quantity shows 1,280 lf. On Br. 25.4 Replacement plan sheet 2 of 12, the Summary of Estimated Quantities shows 12 ea @ 40' = 480 lf, 12 ea @ 60' = 720 lf. This totals 1,200 lf. Should the Bid Quantity in the Bid Schedule reflect the quantity given in the Summary of Estimated Quantities table?

A: The revised bid schedule quantity should be used for bidding.

6. **Q:** Addendum #2 Revised Bid Schedule: Bid item B-17, Furnish Str. Steel Piles, 16" diam x 0.50", Galv. - Revised bid quantity shows 960 lf. On Br. 25.4 Replacement plan sheet 2 of 12, the Summary of Estimated Quantities shows 9 ea @ 40' = 360 lf, 9 ea @ 60' = 540 lf. This totals 900 lf. Should the Bid Quantity in the Bid Schedule reflect the quantity given in the Summary of Estimated Quantities table?

A: The revised bid schedule quantity should be used for bidding.

7. **Q:** Addendum #2 Revised Bid Schedule: Bid item B-19, Drive Str Steel Sheet Piles. PS31 Sheets, 25' lengths. The pay item lists 4,200 sf. On Br. 25.4 Replacement plan sheet 8 of 12, the plan shows a total of 112 pieces of PS31 sheet pile (56 per bulkhead). 112 pieces x 25' x 1.64 sf/lf = 4,592 lf. Should the quantity on the Bid Schedule be revised?

A: The revised bid schedule quantity should be used for bidding. Compensation will be made based on the actual approved quantity remaining in place in the permanent structure and in accordance with the contract documents

8. **Q:** Addendum #2 Revised Bid Schedule: Bid item B-19, Dive Str Steel Sheet Piles. PS31 Sheets, 25' lengths. The pay item lists the sheet pile to be 25' lengths. On Br. 25.4 Replacement plan sheet 8 of 12, it shows a typical drive length of 25'. However, there is a note in a box (adjacent to "Bulkhead Elevation" title) which states "All sheets to be driven to higher elevation and cut down to final elevation, removing lifting holes in sheet pile." In order to accommodate this, certain sheets (approximately 18) would need to be ordered longer than 25' to meet this criteria. This would also affect pay quantity?

A: Compensation shall be made based on the accepted quantity of material remaining in place in the permanent structure, and in accordance with the contract documents. The PS31 sheet pile and PS31 T-pile for BR 25.4 are owner furnished.

9. **Q:** Addendum #2 Revised Bid Schedule: Bid Item B-14.1, Class A Concrete, Piles. The pay item lists the quantity as 25 cyd. On Br. 25.4 Replacement plan sheet 7 of 12, the Pipe Fill Detail shows Class A Concrete being placed from the pile cutoff elevation to the bottom of the reinforced section. Below the reinforced section, it shows the pile filled with Flowable Fill or Concrete. Is the concrete in the unreinforced section supposed to be

included in the pay item bid quantity, or is it considered subsidiary to the pay item bid quantity?

A: Fill below the reinforced section is subsidiary to the pile driving pay items.

- 10. Q:** Addendum #2 Revised Bid Schedule: Bid item A-19, Furnish Str. Steel Piles, 24" diam x 0.875", Galv. - Revised bid quantity shows 3,440 lf. On Br. 25.7 Replacement plan sheet S1 of S19, the Summary of Estimated Quantities shows a total of 78 ea @ 40' = 3,120 lf. Should the Bid Quantity in the Bid Schedule reflect the quantity given in the Summary of Estimated Quantities table?

A: The revised bid schedule quantity should be used for bidding.

- 11. Q:** Bridge 25.7 Replacement – The Summary of Estimated Quantities table on sheet S1 show 2 ea galvanized steel pipe pile, 12" x 0.5" x 15'. The General Arrangement sheets S2 and S3 show these to be installed to the west and behind the abutments. However, there are no bid items in the Addendum #2 Revised Bid Schedule for these 12" diameter piles. How are they to be paid?

A: These are bollards to protect the handrail. They are subsidiary to Item No. A-17 (504.0001.2) – 29'-10" Steel Beam Span, Installation.

- 12. Q:** Reference is made to Item No. A-20 (505.0006.1) – Drive Steel Piles, 24" dia. x 0.875"t (page 195 of 223) specifically this section states:

- Prior to commencing pile driving activities in the nine (9) locations indicated on the Plans to be above shallow bedrock, the Contractor shall drill an exploratory hole above the designed center location of the pile. The hole shall have a minimum diameter of 2-inches and is to be advanced to bedrock or a minimum of ten (10) feet beyond the plan tip elevation of the pile. This Work shall be subsidiary to this pay item.

Question: the above specification references the nine (9) locations indicated on the plans to be above shallow bedrock which includes Bents #11, 12, & 13 (total of 9 pile locations). The pile at these three bents are all paid under Item No. A-22 (505.0010.1) – Socket Structural Steel Piles, 24" dia. and are not part of Item No. A-20. Shouldn't the above spec section be included in Item No. A-22 instead of Item No. A-20?

A: Correct, the referenced specification is in regards to Item No. A-22.

- 13. Q:** SC-15 – Section 241, Railroad Ballast says the Owner will furnish the Type 3 Ballast at the Whittier Yard. Item No. B-7 – Railroad Ballast , Type 3 says ballast is in Seward. Please clarify where the Contractor is to obtain ballast. (Preferably Seward).

A: Owner furnished railroad Ballast will be available in Seward.

- 14. Q:** The specifications indicate 10' and 8.5' treated wooden cross ties will be provided by the ARRC. Will ARRC also be providing the 14' and 11' ties required at Trail River Bridge and the ties for Falls Creek Bridge if they are different from the 10' or 8.5' lengths?

A: ARRC will furnish all required railroad ties for the project.

- 15. Q:** Are the sheet pile furnished by Contractor for Trail River supposed to be black or galvanized?
A: Black sheet pile, contractor furnished.
- 16. Q:** Are the sheet pile furnished by the Owner for Falls Creek going to be galvanized or black?
A: Black sheet pile, ARRC furnished.
- 17. Q:** Where will the Owner Furnished Sheet Piles be located for Contractor pickup?
A: Anchorage yard.
- 18. Q:** What lengths of Owner Furnished Sheet Piles will be at the pickup location? Checking to see if we need to cut them to size for hauling, and how much waste we will have to deal with if they are quite a bit longer than what is required for the installation.
A: Owner furnished sheet pile are in 65ft lengths.
- 19. Q:** Load restrictions are usually in place during most of April and May. Would the Railroad consider allowing the permanent crossing to be constructed in late May or early June so fill material and asphalt could be hauled from the sources?
A: See revised substantial completion dates (Item #1). Recommend building the crossing in fall 2023 in advance of the winter shutdown. The crossing needs to be substantially complete in advance of the substantial completion date.
- 20. Q:** Some vendors are asking if we could give them more time once the material questions are answered to figure product cost and logistics costs. A few days would help out.
A: Bid closing is now September 8, 2022.
- 21. Q:** The drawing "Area of potential effects Contractor Work/Staging Areas appears to show part of the gravel pit available for staging, near MP 25.0. Please confirm this will be available to the Contractor.
A: Yes, this is ARRC property and can be used by the contractor upon request and ARRC approval.
- 22. Q:** Drawings S2 and S3 of S19 indicate a "12" DIA. CONCRETE FILLED PIPE PILE". What is the thickness of these piles, how long are they? How much of the pipe pile is filled with concrete and under which Bid Item is this to be paid?
A: See the Summary of Estimated Quantities table on sheet S1. Two (2) each galvanized steel pipe pile, 12" x 0.5" x 15'. These are bollards to protect the handrail. They are subsidiary to Item No. A-17 (504.0001.2) – 29'-10" Steel Beam Span, Installation.
- 23. Q:** Our suppliers are having difficulty giving us their best pricing at this time. Can the bid opening be delayed until August 12th?

A: Bid closing is now September 8, 2022.

24. Q: We have been advised by all steel piling suppliers looking at this project that 24" diameter pipe pile cannot be fabricated with a 7/8" thick wall in a straight seam configuration. We have been advised that spiral weld pile can be fabricated with 7/8" thick material or as an alternate use a 5/8" thick wall with a higher yield like 70 KSI. As this time we do not anticipate receiving material quotes for the pipe pile currently specified and need clarification as soon as possible.

A: Spiral welded pipe pile manufactured per Section 715 will be allowed.

25. Q: Item No. A-16 29'-10" Steel Beam Span, Fabricate and Furnish is listed in the Bid Schedule as Lump Sum for a total of 12.
a. Special Provisions indicate Method of Measurement will be (Each). Should this item be listed at Lump Sum for a total of 1 or Each for a total of 12?

A: Revised to Each. See revised bid schedule.

26. Q: Item No. A-17 29'-10" Steel Beam Span, Install is listed in the Bid Schedule as Lump Sum for a total of 12.
b. Special Provisions indicate Method of Measurement will be (Each). Should this item be listed at Lump Sum for a total of 1 or Each for a total of 12?

A: Revised to Each. See revised bid schedule.

27. Q: The notes on S2 and S3 state "any legacy piles discovered shall be pulled or cut off at mudline).
c. Does the contractor have to look for these, send divers down to locate, hydrographic survey, etc. to discover what is there or do we just have to pull what we see as we complete demolition of the existing bridge? What level of effort is expected from the contractor? Understanding the lake will most likely covered by thick ice when we are demolishing the existing bridge.

A: Within reason and as identified during the general progression of work. the Contractor is expected to find and remove legacy piles as they may inhibit flow and cause log jams. The Contractor may pick the method of locating them. This may be completed after substantial completion date in spring before final completion or in fall before freeze-up depending on environmental permits received.

28. Q: Regarding the Pipe Pile material for the Trail River and Falls Creek project, Speciation section 715, 715-2.02 GENERAL REQUIREMENTS, 2. C. Indicates ASTM A709 Grade 50T3 helical weld pipe is an approved material for pipe piling. Is helical weld (spiral weld) pipe piling manufactured per Specification 715 approved for this project?

A: See response to Question 22.

29. **Q:** After issuance of Addenda #3, we would like clarification on the items the contractor is to furnish for Bid Item B13, Precast Concrete Member, 28' CBD, based on the Summary of Estimated Quantities Table on Bridge 25.4 Dwg. #2:

- Diaphragm Channel Assembly For Tangent Track Alignment (per Ref. 1, Dwg. No. 14) – 12 each
- 7/8" A325 Bolt, Nut, Washer, hot-dipped galvanized, for diaphragm channel assembly – 48 each
- 13/16" x 10" x 1'-4 1/2" Laminated Bearing Pad (per Ref. 1, Dwg No. 4) – 32 each
- Expansion Beam Stop Assembly (per Ref. 1, Dwg. No. 3) – 8 each
- Fixed Beam Stop Assembly (per Ref. 1, Dwg. No. 3) – 8 each
- 1 1/2" dia. X 1'-9" Anchor Rod, Hot-Dipped Galvanized, ASTM F1554 Gr. 36 – 16 each
- 1" x 2 1/2" A325 Bolt, Hot Dipped Galvanized – 32 each
- Steel Tee T-20 (per details, Dwg. No. 10) – 12 each
- Interior Deck Plate DP-1 (per details, Dwg. No. 10) – 6 each
- Exterior Deck Plate DP-3 (per details, Dwg. No. 10) – 2 each

Please verify this is the anticipated list of materials the contractor is to furnish for the Precast Concrete Member, 28' CBD?

A:

- Diaphragm Channel Assembly For Tangent Track Alignment (per Ref. 1, Dwg. No. 14) – 12 each
- **Correct, including: diaphragm brackets (24 ea), diaphragm plates (24 ea.)**
- 7/8" A325 Bolt, Nut, Washer, hot-dipped galvanized, for diaphragm channel assembly – 48 each
- **Correct**
- 13/16" x 10" x 1'-4 1/2" Laminated Bearing Pad (per Ref. 1, Dwg No. 4) – 32 each
- **Correct**
- Expansion Beam Stop Assembly (per Ref. 1, Dwg. No. 3) – 8 each
- **Correct**
- Fixed Beam Stop Assembly (per Ref. 1, Dwg. No. 3) – 8 each
- **Correct**
- 1 1/2" dia. X 1'-9" Anchor Rod, Hot-Dipped Galvanized, ASTM F1554 Gr. 36 – 16 each
- **Correct**
- 1" x 2 1/2" A325 Bolt, Hot Dipped Galvanized – 32 each
- **Correct**
- Steel Tee T-20 (per details, Dwg. No. 10) – 12 each
- **Correct**
- Interior Deck Plate DP-1 (per details, Dwg. No. 10) – 6 each
- **Correct**
- Exterior Deck Plate DP-3 (per details, Dwg. No. 10) – 2 each
- **Correct**

Other contractor furnished items for CBD:

- 1-1/4" x 6" x 12'-4" UHMW plastic bulkhead cap bearing pad, Ref 1, Dwg#11, (2 ea.)

- 3/8 x 6" HDG anchors, Ref. 1, Dwg#11, (16 ea.)

Note:

All metal components to be galvanized. Spray metallization or hot dip are both acceptable.

ARRC is not responsible for confirming the exact contents of the plans. The contractors are solely responsible for their own thorough review of the plan drawings and the contents of those drawings.

All other terms and conditions remain unchanged.

These are all of the questions received to date. If you have sent questions that have not been answered, please resubmit them. Questions will be accepted until August 26, 2022.

Acknowledge receipt of this and all addenda in your firm's Construction Bid Form (Form 395-0121).

Sincerely,

Michele Hope

Michele Hope
Sr. Contract Administrator