Addendum #3

Directorate of Facilities Engineering 29 June 2022

This Addendum modifies, amends, and supplements designated parts of the Contract Documents, Specifications and Drawings for:

Joint Vehicle Maintenance Facility, FMS #1, Saco, Maine, Project Number 230125, BGS Project Number 3100, Bid Number 22-018.

It shall be the responsibility of the Contractor to notify all Subcontractors and Suppliers for various portions of the work of any changes or modifications contained in this Addendum.

Notice of Bid Opening Extension

Due to the complexity of Addendum 1, the date of the Bid Opening has been extended to July 21, 2022, the final date for RFIs to be submitted is extended to 15 July 2022 at 12:00 noon, and the final Addendum will be issued no later than 18 July 2022 at 12:00 noon. All other provisions of the bid opening remain the same.

RFI/Clarification General Notes (GN)

1. Any references in these RFI questions and answers to any specific manufacturer, make, model, etc. are provided as a basis of bid. Alternates and substitutions are acceptable provided they meet the design requirements as stated in the plans and specifications and are approved through the submittal process after contract award and prior to installation.

RFIs/Clarification Items:

1. Question: There is a contradiction of approach to providing slope stabilization. The Geotechnical Evaluation Report references an approach using driven steel piles and lagging or a solid grouted wall. The subsequent Geotechnical Monitoring Document and supported by the drawings Fig-M1 and Fig M2 call for slope stabilization through the use of geotextile Grid. Please confirm only the geogrid shall be used as the approved method of slope stabilization?
    a. Answer: AE – The only slope stabilization required is the geogrid shown on the design drawings.
2. Question: On plan sheet AF 103, Floor Finish for Rooms 128B, 192, 129B, 129A and 129 are all listed as ER. Room 128A Male Locker Room floor finish is listed as EP. Can you confirm if Room 128A should be corrected to floor finish ER to match remaining room areas?
    a. Answer: AE - Contractor to provide and install floor finish type ER in Male Locker Room 128A.
3. Question: On plan sheet AF 103, Base Finish for Rooms 128A, 128B, 192, 129B, 129A and 129 are all listed as ER. Room 128 Male Latrine Floor and Base Finish are listed as EP. Can you confirm if Room 128 should be corrected to Floor and Base finish ER to match remaining room areas?
    a. Answer: AE - Contractor to provide and install floor finish type ER and base finish type ER in Male Latrine Room 128.
4. Question: On plan sheet AF 103, Base Finish for Rooms 128A, 128B, 192, 129B, 129A and 129 are all listed as ER. Room 128 Male Latrine Floor and Base Finish are listed as EP. Can you confirm if Room 128 should be corrected to Floor and Base finish ER to match remaining room areas?
    a. Answer: AE - On AE123, delete Keyed Note 1 from Male Locker Room 128A and Female Locker Room 129A. Contractor to provide and install type ACT-2 ceiling finish in Male Locker Room 128A and Female Locker Room 129A. Contractor to provide and install moisture resistant gypsum board ceiling finish in Male Shower Room 128B and Female Shower Room 129B.

5. Question: There appears to be confusion and contradiction between the plan sheets and the specifications in regards to the pump station shown on plan sheet C-503. The following comments and questions below are submitted from a pump station supplier:
    a. After reviewing the plans and specifications relevant to the pump station shown on sheet C-503, we would be inclined to follow the plan sheet vs. the written specifications, as thewritten specifications seem to be written around a suction lift station and the components and requirements of a station constructed as such. Any reference in the NOTES on C-503 referring to written specifications would need to be confirmed as well.
        i. Answer: AE – Contractor shall follow the requirements of specification 221343. Replace section 2.1 of specification 221343 with the following:

2.1 WET-WELL, PACKAGED SEWAGE PUMPING STATIONS

A. Wet-Well, Packaged Sewage Pumping Stations with Submersible Grinder Sewage Pumps:

1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include:

a. ParkUSA.
b. Weil Pump.
c. Zoeller Pump Co.
d. Liberty Pumps.

2. Description: Factory fabricated, assembled, and tested with wet well for sewage pumps and collection of sanitary sewage and with dry equipment chamber for controls and accessories.

a. Orientation: Shell underground with top flush with grade
b. Shell: Factory fabricated from fiberglass or concrete

3. Capacities and Characteristics:

a. Diameter of Shell: As Indicated on Drawings
b. Height of Shell Base Section: As Indicated on Drawings
c. Inlet Pipe Size: As Indicated on Drawings
d. Discharge Pipe Size: As Indicated on Drawings
e. Sewage Pumps: Two
f. Each Sewage Pump:

1) Capacity: 50 gpm
2) Total Dynamic Head: ~~35 ft~~ (39 feet to match RFI Q22A)
3) Impeller: Grinder Type
4) Motor Size: 2 hp
5) electrical Characteristics: 480V, 3-Phase

    b. We can provide Factory Hydraulic Institute Level 2B Performance Testing, if required, but this is not something that is typically done for a small grinder station.
        i. Answer: AE - Factory Hydraulic Institute Level 2B Performance testing is not required
6. Question: Questions/Clarifications:
    a. Are there specific items within the written specification we need to make sure we address that cross over to a submersible grinder station as shown on the plans, that are not notes on the plan?
        i. Answer: AE – See response to RFI 18A (Addendum 3 Question 5)
    b. Please confirm relevance of any American Steel requirements, as this station, as drawn will have no steel piping or fittings. Pumps and valves are typically not included in this requirement in the past.
        i. Answer: AE - All materials and components provided must meet the Buy America Act which allows for specific written waivers. Any material which has a specific written waiver is compliant.
7. Question: As far as Sheet C-503, we have some questions as to the materials and layout as shown. Note 8 on the plan indicates intrinsically safe relays and EY seal-offs
    a. Panel is shown to be mounted directly on structure, which we would not expect for an XP rated system, please advise.

i. Answer: AE – With conduits containing seal-offs, it is acceptable to mount the control panel on top of the lift station

b. We would suggest mounting panel on bollards approximately 5ft off structure to provide distance from all classified zones, and to provide service technicians an area to work between the panel and the structure
    i. Answer: AE – ~~It is acceptable to mount the control panel on a bollard adjacent to the lift station.~~ (Additional Bollards are not acceptable. Edit by Owner)

c. Panel is shown to have door open over (open) structure hatch, we would recommend opening away while standing on surrounding grade if panel is to remain on structure as shown
    i. Answer: AE - It is ~~acceptable~~ required (edit by Owner) to mount the control panel such that the door swings away from the structure hatch.

8. Question: Break-Away-Fitting (BAF) is shown to be 2-1/2”
    a. The manufacturer that refers to this as a BAF supplies 2” discharge off base elbow, threaded
        i. Answer: AE - Contractor to provide and install manufacturer's standard fittings that allow grinder pumps to be removed without requiring personnel to enter the wet well, and are coordinated with the pump dimensions.
9. Question: 2-1/2” Force Main - Will the hydraulic calculations for this system allow for 2” piping through the valve pit, and then if needed, to be upsized to 2-1/2” FM so that 2” PVC SCH80 pipe, valves & fittings can be utilized, which are readily available, and in the case of check valves, have more to select from for this type of application
    a. Answer: AE - 2" piping in the lift station and valve pit is acceptable provided the pump can meet a capacity of 50 gpm with a total dynamic head of 39 feet.
10. Question: FM Discharge Piping in structure and valve pit
    a. PVC SCH80 fittings are typically glue style fittings (vs. flanged)
        i. Answer: AE - Contractor shall be allowed to use solvent cement fittings
    b. Question: Are 2” Tru-Union Style Ball valves acceptable, which are typical for this type of application?
        i. Answer: AE – Contractor shall be allowed to use Tru-Union style ball valves
    c. Are 2” Flomatic Ball Check valves, either PVC SCH80 or threaded CI acceptable, both of which are typical for this type of application
        i. Answer: AE - Contractor shall be allowed to use Flowmatic ball check valves
11. Question: Level controls - HydroRanger is referenced on plan, without float back-up
    a. Would Keller America Level Rat submersible transmitter or Vega Radar be acceptable, with a 2 or 4 float backup that would automatically switch to float backup if primary analog level control fails, and stay there until user confirms primary 4-20ma analog level system is functional
        i. Answer: AE - Keller American Level Rat is an acceptable substitution for the HydroRanger, the Vega Radar is not an acceptable substitution. Contractor to provide and install a (4) float backup system. (Owner note – float switch system is preferred to any electronic level system)
12. Question: Can All Pumps Off El 49 be increased to 49.5 to provide more pump submergence when mounted on an elevated BAF system to extend life of pump, and/or go with 12.5 ft station (add 6 inches)
    a. Answer: AE - Lift station depth can be increased to 12.5 feet if required to extend pump life in accordance with sheet C-503 note 12. All Pumps Off elevation shall remain at 49 feet.
13. Question: Can All Pumps Off El 49 be increased to 49.5 to provide more pump submergence when mounted on an elevated BAF system to extend life of pump, and/or go with 12.5 ft station (add 6 inches)
    a. Answer: AE - Contractor shall set high level alarm elevation at 51.75 feet
14. Question: Can you please provide direction and complimentary plans and specifications for the desired pump station?

a. Answer: AE - See response to RFI 18A (Addendum 3 Question 5)

15. Question: I have received several questions in regards to the pump station on this project. Apparently numerous items are vague in description. See the list of questions below from a pump station supplier.
    a. Is this an underground pump station/valve pit (plan dwg) or an above ground suction pump station (specs)?
        i. Answer: AE – See response to RFI 18A (Addendum 3 Question 5)
    b. Pump conditions- duty points, gallons per minute @ what head?
        i. Answer: AE – See response to RFI 18A (Addendum 3 Question 5)
    c. Site voltage and phase for station?
        i. Answer: AE – See response to RFI 18A (Addendum 3 Question 5)
    d. Any specific brand pump if submersible (plan dwg)?
        i. Answer: AE – See response to RFI 18A (Addendum 3 Question 5)
    e. Control panel? Spec looks basic, off the shelf. Is this correct?
        i. Answer: AE - Control panel shall meet the requirements of specification 221343, and provide control point output for High Level Alarm and Pump Fault as shown on drawing M-651
16. Question: Section3.10 of Masonry Spec. 042000 notes Field Quality Control and lists standard inspection and testing requirements for mortar tests and grout tests. The specification does not mention the frequency or quantity of desired field tests. Could you clarify the frequency or minimum quantity of tests and desired frequency?
    a. Answer: AE - Contractor shall test mortar every day for the first three days of masonry work, and a minimum of one test every week thereafter. Contractor shall perform one grout test for each mix design used each day grout is placed, and perform and additional test for each 5,000 square feet of masonry wall area after the first 5,000 square feet. Additional test of mortar and grout shall be required whenever there are any change in materials or job conditions.

Drawing Items: No revised drawings are included in Addendum 3

Attachments:

Addendum 3 Bid RFI Log 30 June 2022.xlsx

RFI Log	Company	RFI	Asked	Answer	AE/	Answered	Addendum
0	Owner	RFI/Clarification General Notes (GN1)					
1		Alternates and Substitutions		Any references in these RFI questions and answers to any specific manufacturer, make, model, etc. are provided as a basis of bid. Alternates and substitutions are acceptable provided they meet the design requirements as stated in the plans and specifications, and are approved through the submittal process after contract award and prior to installation.	Owner	30-Jun	Add3GN1
1	Grondin	· Can the Civil CAD files be made available to all bidders pre-bid with the completion of a CAD Release Form? CAD file should include original ground data and all proposed design data used to create the bid plans for the civil portion of the project. This will facilitate accuracy and time saving in the preparation of the bid helping to ensure the most competitive pricing and complete scope of work for the owner. If allowed, release of the CAD file should be as soon as possible as it will be used to complete the quantity takeoff for the bid.	16-Jun	AE - Civil CAD files transmitted from Wood to DVEM via DoD SAFE. Owner - Electronic File Release Agreement provided in Specification and in Addendum 1.	AE/Owner	21-Jun	Add 1Q2
	Grondin	Could you please provide direction and clarification on the following question:· Preload Sequence note 9 on Sheet C-101-A states the following: 9. INSTALL LOWER GEOGRID LAYER WHERE REQUIRED AND PRE-CUT HOLES IN GEOGRID TO ALLOW FOR PENETRATION OF WICK DRAINS, GEOTECHNICAL INSTRUMENTS, AND DOWNHOLE TOOLING. INSTALL THE PRELOAD DRAINAGE COURSE 12-INCH THICK IN WICK DRAIN AREAS. Additionally, Note 3 on Sheet C-101-A adds the following: 3. CONTRACTOR SHALL PRE-CUT HOLES IN LOWER GEOGRID LAYER FOLLOWING INSTALLATION TO ALLOW WICK DRAINS AND INSTRUMENTATION TO PENETRATE GEOGRID WITHOUT CAUSING DAMAGE TO THE GEOGRID. MAXIMUM HOLE SIZE CUT IN THE GEOGRID SHALL BE LIMITED TO A REASONABLE SIZE TO ACCOMMODATE INSTALLATION EQUIPMENT AND/OR DOWNHOLE TOOLING. CONTRACTOR SHALL PROVIDE MEANS TO LOCATE AND VERIFY PRE-CUT LOCATIONS PRIOR TO WICK DRAIN AND INSTRUMENT INSTALLATION. Often times with wick installation, the wick may fail to "stick" in the soil strata below the marine clay. This sometimes causes the wick to need to be slightly relocated. If this situation occurs the new location may not have the geo-grid cut to accept the mandrel and wick drain at the new location. Please give direction on the size hole that we are to cut in the geogrid at the proposed location and the procedure required if a relocation of a wick drain is moved out of this pre-cut location.	16-Jun	AE - A 12" maximum hole size is allowed in the geogrid to for wick relocation. Larger holes will impact the integrity of the geogrid. If a larger offset is required, the cover material will need to be removed to cut a new smaller hole. The understanding is that this would be a relatively infrequent occurrence.	AE	21-Jun	Add 1Q1

3	Sheridan	- In the structural notes it calls for slabs to be 4,000 psi, which is normal, but the next paragraph asks for the concrete to have a minimum flexural strength of 560 psi, which is normal for a tarmac, but not for a floor. All I know about 560 flex is that it is an 1-1/2" mix with a lot more stone in it than normal and placed at a 2" slump. The plans I saw at this point were a 4" and 6" floor which would be very difficult to place this and finish. Is this a mistake?	17-Jun	Flexural strength for concrete slabs should be 424 psi	AE	24-Jun Add 2Q1
4	Sheridan	- Unit Prices 012200-3.1 lists a schedule of unit prices, but the unit prices do not appear on the bid form. Will these be submitted prior to the bid opening, or after the fact? Also, the alphabetical sorting of unit prices duplicates a couple of letters (example a, b, c, d,c, d, e…)	20-Jun	Owner - Disregard the discussion about unit prices that occured at the Pre-bid meeting. The Section 01 22 00, Unit Prices is deleted as part of Addendum No 2. Unit prices will not be required to be provided. Please refer to Section 00 63 63 Change Order Forms and Section 01 26 00 Contract Modification Procedures.	Owner	24-Jun Add 2Q2
5	Sheridan	- There was conversation at the pre-bid conference regarding material/consumable escalation with consideration of the +/- two year project completion timeframe. Will any justifiable adjustment be considered after the successful bidder is determined, and/or at the time of material installation?	20-Jun	Conversation at the pre-bid was about Unit Prices and not the original base scope of work . For the original scope Base Bid and ABIs, the answer is No. BGS does not allow cost variations since this is a lump sum, fixed price contract. There is no escalation clause, and escalation will not be considered. With regard to the Unit Prices, the Section 01 22 00, Unit Prices is deleted as part of Addendum No 2. Unit prices will not be required to be provided. Please refer to Section 00 63 63 Change Order Forms and Section 01 26 00 Contract Modification Proceduers.	Owner	24-Jun Add 2Q3
6	Cianbro	1. Base bid includes galvanized metal deck for the roof. Alternate No. 9 "ABI #9 – Paint Exposed Roof Framing Sect. 012300 Para. 3.1M" notes "Field finish paint exposed steel roof framing and metal deck at locations indicated on the drawings AF101 through AF104." If Alternate No. 5 "ABI #5 Acoustical Metal Roof Deck" was selected, and understanding that paint may bridge and cover the holes in the Acoustical Metal Deck, are we to paint the exposed Acoustical Metal Deck if ABI# 5 and #9 are selected?	21-Jun	Yes, ~~the intent is to~~ paint the acoustical metal deck if both ABI #5 and #9 are selected	AE	24-Jun Add 2Q4

7	Ducas	The project specification is requesting a fire rated glazing per ASTM E119 into operable frames. This ASTM reference is not allowed in operable frames, but rather fixed curtainwall type structures. Please confirm glazing spec for fire rated glazing and call outs at locations	21-Jun	Fire-resistance-rated glazing complying with ASTM E119 is not required. Fire-protection-rated glazing is permitted, tested in accordance with NFPA 259 or UL 9, including hose-stream test, and shall comply with NFPA 80. Refer to door schedule (see types and ratings) for locations requiring fire-protection-rated glazing. Refer to window schedule for locations requiring fire-protection-rated glazing; glazing type GL-3 shall be 45-minute fire rated.	AE	24-Jun Add 2Q5
8	AIS	Revised LEED Spec Provided	22-Jun	Included in ADD 2	AE/Owner	24-Jun Add 2Q6
9	Shaw	In reviewing the plans and specifications, It calls for subbase gravel to be MDOT Type D Gravel. Specification section 312000 part 2.1 Soil Materials part D. lists Aggregate Subbase Gravel as "MDOT Type D with at least 90% passing the 1-1/2" sieve and not more than 12% passing the No. 200 sieve." This is not the standard MDOT Type D gravel gradation specification. Please advise if Aggregate Subbase Gravel is MDOT Type D or is it as modified in the specifications. If it is as modified please furnish the complete aggregate subbase gravel gradation that is required for this project?	22-Jun	2 Aggregate Subbase ~~should~~ shall (edit by owner) be MDOT Type D.	AE	24-Jun Add 2Q7
10	Shaw	In the Geotechnical Evaluation Report Section 6.2 Temporary Surcharge, bulletin 6 calls states "Wick drains should fully penetrate the marine clay deposit. A drainage layer should be placed over the native subgrade soils to facilitate drainage of water away from the surcharge area. The drainage layer should consist of 18" of crushed stone or structural fill." The details (54, 57, 59) shown on plan sheet C-508 show a 12" thick drainage layer. Can this be clarified?	22-Jun	Drainage layer ~~should~~ shall (editied by Owner) be 12" minimum.	AE	24-Jun Add 2Q8
11	Blane Casey	We have received the following from a window treatment contractor:	22-Jun			
1		1) Specs say AT EXTERIOR WINDOWS also states Single Flexshades and Dual Flexshades Which is wanted and Where ?		Single-roller shades are not required. All shades at exterior windows shall be double-roller shades.	AE	24-Jun Add 2Q9a
2		2) Confirm if Side & Sill channels are wanted AND where		Side and sill channels are required per Spec Section 122413, 2.3.I; this applies to all shade locations.	AE	24-Jun Add 2Q9b
3		3) AE103 -- First Floor C area - Is this the only area getting window treatments? Please confirm I found: Type A ---- 7, Type B --- 3, Type D ---- 2		The intent is for all exterior windows to receive roller shades. Exterior windows are located in Areas C and D. Refer to floor plans for window locations and types.	AE	24-Jun Add 2Q9c

12	Ducas	There is a contradiction of approach to providing slope stabilization. The Geotechnical Evaluation Report references an approach using driven steel piles and lagging or a solid grouted wall. The subsequent Geotechnical Monitoring Document and supported by the drawings Fig-M1 and Fig M2 call for slope stabilization through the use of geotextile Grid. Please confirm only the geogrid shall be used as the approved method of slope stabilization?	23-Jun	The only slope stabilization required is the geogrid shown on the design drawings.	AE	27-Jun Add 3Q1
13	Cianbro	1. Pre-Bid Conference Agenda, dated June 16, 2022 Item B.4.e notes "Deadline for Bid RFI's ……..8 July 2022, 12:00 noon" and Item B.4.f "Final Addendum issued……..11 July 2022, 12:00 noon". Addendum No. 1, dated June 21, 2022 "Notice of Bid Opening Extension…..has been extended to July 21, 2022." Should we assume RFI Due date is commensurate with the Bid Extension and Deadline for RFI's will now be July 15, 2022 at 12:00 noon with Final Addendum Issues July 18, 2022 at 12:00 noon?	23-Jun	Deadline for Bid RFIs will be 15 July. "Deadline for Bid RFI's ……..8 July 2022, 12:00 noon" and Item B.4.f "Final Addendum issued……..11 July 2022, 12:00 noon".	Owner	24-Jun Add 2Q10
14	Sargent	Request for Civil CAD Files	24-Jun	Sent by DoD Safe	Owner	24-Jun Add 2Q11
15	Cianbro	On plan sheet AF 103, Floor Finish for Rooms 128B, 192, 129B, 129A and 129 are all listed as ER. Room 128A Male Locker Room floor finish is listed as EP. Can you confirm if Room 128A should be corrected to floor finish ER to match remaining room areas?	24-Jun	Contractor to provide and install floor finish type ER in Male Locker Room 128A.	AE	27-Jun Add 3Q2
16	Cianbro	On plan sheet AF 103, Base Finish for Rooms 128A, 128B, 192, 129B, 129A and 129 are all listed as ER. Room 128 Male Latrine Floor and Base Finish are listed as EP. Can you confirm if Room 128 should be corrected to Floor and Base finish ER to match remaining room areas?	24-Jun	Contractor to provide and install floor finish type ER and base finish type ER in Male Latrine Room 128.	AE	27-Jun Add 3Q3
17	Cianbro	Drwg. AE 123 Keyed Note 1 -"Moisture Resistant Gypsum Board" is labeled in Rooms 128A, 128B, 129A and 129B. Drwg. AF 103 lists Rooms 128A and 129A as ACT-2 Ceiling Finish. Can you clarify the desired finish within these rooms and designate a line where Moisture Resistant Gypsum Board and the ACT-2 ceilings should occur?	24-Jun	On AE123, delete Keyed Note 1 from Male Locker Room 128A and Female Locker Room 129A. Contractor to provide and install type ACT-2 ceiling finish in Male Locker Room 128A and Female Locker Room 129A. Contractor to provide and install moisture resistant gypsum board ceiling finish in Male Shower Room 128B and Female Shower Room 129B.	AE	27-Jun Add 3Q4
18	Grondin	There appears to be confusion and contradiction between the plan sheets and the specifications in regards to the pump station shown on plan sheet C-503. The following comments and questions below are submitted from a pump station supplier:	24-Jun			

				Contractor shall follow the requirements of specification 221343. Replace section 2.1 of specification 221343 with the following: 2.1 WET-WELL, PACKAGED SEWAGE PUMPING STATIONS A. Wet-Well, Packaged Sewage Pumping Stations with Submersible Grinder Sewage Pumps: 1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include: a. ParkUSA. b. Weil Pump. c. Zoeller Pump Co. d. Liberty Pumps. 2. Description: Factory fabricated, assembled, and tested with wet well for sewage pumps and collection of sanitary sewage and with dry equipment chamber for controls and accessories. a. Orientation: Shell underground with top flush with grade b. Shell: Factory fabricated from fiberglass or concrete 3. Capacities and Characteristics: a. Diameter of Shell: As Indicated on Drawings b. Height of Shell Base Section: As Indicated on Drawings c. Inlet Pipe Size: As Indicated on Drawings d. Discharge Pipe Size: As Indicated on Drawings e. Sewage Pumps: Two f. Each Sewage Pump: 1) Capacity: 50 gpm 2) Total Dynamic Head: ~~35 ft~~ (39 ft to match RFI Q22A) 3) Impeller: Grinder Type 4) Motor Size: 2 hp		
A		After reviewing the plans and specifications relevant to the pump station shown on sheet C-503, we would be inclined to follow the plan sheet vs. the written specifications, as thewritten specifications seem to be written around a suction lift station and the components and requirements of a station constructed as such. Any reference in the NOTES on C-503 referring to written specifications would need to be confirmed as well.	24-Jun	5) electrical Characteristics: 480V, 3-Phase	AE	Add 3Q5a
B		We can provide Factory Hydraulic Institute Level 2B Performance Testing, if required, but this is not something that is typically done for a small grinder station.	24-Jun	Factory Hydraulic Institute Level 2B Performance testing is not required	AE	Add 3Q5b
	19 Grondin	Questions/Clarifications: Are there specific items within the written specification we need to make sure we address that cross over to a submersible grinder station as shown on the plans, that are	24-Jun			
A		not notes on the plan?	24-Jun	See response to RFI 18A	AE	Add 3Q6a
B		Please confirm relevance of any American Steel requirements, as this station, as drawn will have no steel piping or fittings. Pumps and valves are typically not included in this requirement in the past.	24-Jun	All materials and components provided must meet the Buy America Act which allows for specific written waivers. Any material which has a specific written waiver is compliant.	Owner	Add 3Q6b
	20 Grondin	As far as Sheet C-503, we have some questions as to the materials and layout as shown. Note 8 on the plan indicates intrinsically safe relays and EY seal-offs	24-Jun 24-Jun			

A		Panel is shown to be mounted directly on structure, which we would not expect for an XP rated system, please advise	24-Jun	With conduits containing seal-offs, it is acceptable to mount the control panel on top of the lift station	AE	Add 3Q7a
B		We would suggest mounting panel on bollards approximately 5ft off structure to provide distance from all classified zones, and to provide service technicians an area to work between the panel and the structure	24-Jun	~~It is acceptable to mount the control panel on a bollard adjacent to the lift station.~~ (Additional Bollards are not Acceptable. Edit by Owner)	AE/Owner	Add 3Q7b
C		Panel is shown to have door open over (open) structure hatch, we would recommend opening away while standing on surrounding grade if panel is to remain on structure as shown	24-Jun	It is ~~acceptable~~ required (edit by Owner) to mount the control panel such that the door swings away from the structure hatch.	AE/Owner	Add 3Q7c
	21 Grondin	Break-Away-Fitting (BAF) is shown to be 2-1/2"	24-Jun			
A		The manufacturer that refers to this as a BAF supplies 2" discharge off base elbow, threaded	24-Jun	Contractor to provide and install manufacturer's standard fittings that allow grinder pumps to be removed without requiring personnel to enter the wet well, and are coordinated with the pump dimensions.	AE	Add 3Q8a
	22 Grondin	2-1/2" Force Main	24-Jun			
A		Will the hydraulic calculations for this system allow for 2" piping through the valve pit, and then if needed, to be upsized to 2-1/2" FM so that 2" PVC SCH80 pipe, valves & fittings can be utilized, which are readily available, and in the case of check valves, have more to select from for this type of application	24-Jun	2" piping in the lift station and valve pit is acceptable provided the pump can meet a capacity of 50 gpm with a total dynamic head of 39 feet.	AE	Add 3Q9
	23 Grondin	FM Discharge Piping in structure and valve pit	24-Jun			
A		PVC SCH80 fittings are typically glue style fittings (vs. flanged)	24-Jun	Contractor shall be allowed to use solvent cement fittings	AE	Add 3Q10a
B		Are 2" Tru-Union Style Ball valves acceptable, which are typical for this type of application?	24-Jun	Contractor shall be allowed to use Tru-Union style ball valves	AE	Add 3Q10b
C		Are 2" Flomatic Ball Check valves, either PVC SCH80 or threaded CI acceptable, both of which are typical for this type of application	24-Jun	Contractor shall be allowed to use Flowmatic ball check valves	AE	Add 3Q10c
	24 Grondin	Level controls	24-Jun			
A		HydroRanger is referenced on plan, without float back-up Would Keller America Level Rat submersible transmitter or Vega Radar be acceptable, with a 2 or 4 float backup that would automatically switch to float backup if primary analog level control fails, and stay there until user confirms primary 4-20ma analog level system is functional	24-Jun	Keller American Level Rat is an acceptable substitution for the HydroRanger, the Vega Radar is not an acceptable substitution. Contractor to provide and install a (4) float backup system. (Owner Note - Float switch system is preferred to any electronic level system)	AE/Owner	Add 3Q11
	25 Grondin	Can All Pumps Off El 49 be increased to 49.5 to provide more pump submergence when mounted on an elevated BAF system to extend life of pump, and/or go with 12.5 ft station (add 6 inches)	24-Jun	Lift station depth can be increased to 12.5 feet if required to extend pump life in accordance with sheet C-503 note 12. All Pumps Off elevation shall remain at 49 feet.	AE	Add 3Q12

	26	Grondin	Is there no reserve storage required between the high water alarm and 8" invert		Contractor shall set high level alarm elevation at 51.75 feet	AE	Add 3Q13
	27	Grondin	Can you please provide direction and complimentary plans and specifications for the desired pump station?	24-Jun	See response to RFI 18A	AE	Add 3Q14
	28	Cianbro	Request for Civil CAD Files	24-Jun	Sent by DoD Safe	Owner	24-Jun Add 2Q12
	29	Cianbro	Section 01 22 00 Unit Prices. Are we to provide Unit Prices, as noted in 01 22 00, with Bid Form 00 14 13 at time of Bid or after Notice of Intent to Award?	24-Jun	The Section 01 22 00, Unit Prices is deleted as part of Addendum No 2. Unit prices will not be required to be provided. Please refer to Section 00 63 63 Change Order Forms and Section 01 26 00 Contract Modification Procedures.	Owner	24-Jun Add 2Q13
	30	Shaw bros	I have received several questions in regards to the pump station on this project. Apparently numerous items are vague in description. See the list of questions below from a pump station supplier.	27-Jun			
A			Is this an underground pump station/valve pit (plan dwg) or an above ground suction pump station (specs)?	27-Jun	See response to RFI 18A	AE	Add 3Q15a
B			Pump conditions- duty points, gallons per minute @ what head?	27-Jun	See response to RFI 18A	AE	Add 3Q15b
C			Site voltage and phase for station?	27-Jun	See response to RFI 18A	AE	Add 3Q15c
D			Any specific brand pump if submersible (plan dwg)?	27-Jun	See response to RFI 18A	AE	Add 3Q15d
E			Control panel? Spec looks basic, off the shelf. Is this correct?	27-Jun	Control panel shall meet the requirements of specification 221343, and provide control point output for High Level Alarm and Pump Fault as shown on drawing M-651	AE	Add 3Q15e
	31	Cianbro	Spec section 10 11 00 Visual Display Units, item 1.8.A.2 Warranty Period is given as 50 years from the date of Substantial Completion. Please confirm the length of the Warranty Period.	28-Jun		AE	Add xQx
	32	Cianbro	Section3.10 of Masonry Spec. 042000 notes Field Quality Control and lists standard inspection and testing requirements for mortar tests and grout tests. The specification does not mention the frequency or quantity of desired field tests. Could you clarify the frequency or minimum quantity of tests and desired frequency?	28-Jun	Contractor shall test mortar every day for the first three days of masonry work, and a minimum of one test every week thereafter. Contractor shall perform one grout test for each mix design used each day grout is placed, and perform and additional test for each 5,000 square feet of masonry wall area after the first 5,000 square feet. Additional test of mortar and grout shall be required whenever there are any change in materials or job conditions.	AE	Add 3Q16
	33	Cianbro	Spec. Section 019119.43, Sections 3.30 and 3.40. Will Owner's Commissioning Agent perform the Testing and Inspection for the Article 3.3 First Installation Mockup Testing and 3.4 Building Enclosure Testing?	28-Jun		AE	Add xQx

34	Shaw	Project specification 312000 Earth Moving part 2 2.1L Preload Fill states “Use Aggregate Subbase Gravel”. Plan sheet C-508 detail 59 calls out permanent fill and preload fill to be “aggregate subbase gravel”. Geotechnical Report section 5.3 paragraph 7 (pg 5-4) states Surcharge heights recommended herein are based on using granular soil with a compacted, in-place moist unit weight of 125 pcf for both the permanent fill and the surcharge. Please confirm that the preload fill is to be aggregate subbase gravel per the plans and specifications.	30-Jun	AE	Add xQx
35	Shaw	The geotechnical report section 6.4 calls for structural fill under the buildings and the specifications (312000 part 3 3.13 B) calls for aggregate subbase gravel. Please confirm that structural fill is not required.	30-Jun	AE	Add xQx
36	Blane Casey	1. Drawings show the layout of lube systems but spec’s indicate design build. Is the lube oil system design build, or being furnished and installed by owner? If it is a design build system it would be great if we could get more information on the tank and piping sizes they are looking for on each system. What brand and model of hose reels and hose sizes, Nozzle brand and model, Pump brand and models.	30-Jun	AE	Add xQx
37	Blane Casey	1. On drawing PL502 detail C1 hose reels it references drawing PL124. Are we to include hose reels at these locations? If so what brand and model will be required? Hose size and length will also be required?	30-Jun	AE	Add xQx