

**Hazardous Waste Tanks, RAAP
DACA65-02-B-0011**

Contractor Questions with Answers in bold

1. Is it required that we maintain traffic on the asphalt drive through the project? **Road closing is acceptable, see amendment.**
2. It appears to us that due to the excavation depth, sheeting will need soil anchors. May we drill and pump cement as necessary, and when necessary to provide necessary anchorages, excluding known areas where the anchors would conflict with known buried pipes, etc? **Grouting in anchors is acceptable.**
3. Can power be shut down in the areas where piles need to be driven? **Yes, outages can be scheduled**
4. Would we be permitted to cast the drainage channel in place rather than precast? Would we need to conform to ACI-350R for this work if permitted or could a less restrictive spec. be used? **Cast in place trenches are acceptable and are not considered secondary containment.**
5. Will a storage area be provided for each excavated that will be used to back fill? Will off-road trucks be permitted to haul this surplus to the stockpile area? **Yes, an onsite storage area will be available.**
6. Does ACI-350R apply to construction of manholes for storm drains? **No, storm drains and manholes for storm drains are not designed to ACI 350R.**
7. Is the 12" pipe that is to be relocated for new MH #1 a storm drain? Is the elevation of the pipe known? **No, it is an acid sewer, the elevation is 1788.0'.**
8. Could the dbl 36" pipe, MH #1 thru MH #3 be replaced with one larger pipe of equal or greater capacity? **Yes, one larger pipe is acceptable.**
9. RFQ Package did not have specific valve specifications for each service. Please provide the necessary specs. **See valve schedule in the amendment.**
10. Drawing M2200 shows a 6" FW from a 14" main going into a 2" valve box. Shouldn't this be a 6" valve box? **6" Valve. See Amended drwg.**

11. Drawing M2200 shows a 1-1/2" D water line. The Line Designations given on Drawing G0008 do not have this service listed. Please identify what service designation "D" is and provide a spec for it. **D and PW are the same.**
12. Drawing G0008 shows Spec #156L as "150# 316L Thin Wall Stainless Steel" but the only stainless steel spec given in Division 15200A is for 304L Schedule 40S per paragraph 2.3.1.1. Which is correct? **Standard wt., all piping to be 316L.**
13. Ref Drawing M2100, Location Point 1-C; what size is the gravity drain line from Line No. PS-118-6"-156L-N to PWW-105-16"-156L? Also where is the tie-in point location on Line No. PWW-105-16"-156L? **See C-2201.**
14. Should Control Valve Data Sheet A-34 of 54 be for Control Valve LV222 and not Control Valve LV220? **Yes**
15. Piping spec 35P shown on Drawing G0008 is identified as "PVC Bell End Pressure Pipe" but Division 15, Section 15200A, page 23, paragraph 2.3.3 appears to be a Polyethylene spec. Please provide a specific spec for Spec 35 HP and 35P. **35P specification is for P.E. pipe, see specification for P.E. Pipe.**
16. Drawing G0008 identifies spec 47P as "Galvanized Steel Pipe" and spec 121 as "125# Carbon Steel Pipe". Please review Division 15, Section 15200A, page 20, paragraph 2.2 and provide a specific spec for carbon steel and galvanized pipe. **ASTM A53/A106**
17. Detail A at the bottom left corner of Drawing C2201 shows a 2" x 6" eccentric reducer and a 2" SS ball valve which ties into a 4" drain with a 16" x 16" x 4" tee". Which is the correct, the 2" size or the 4" size? The P&ID does not give a size. **Four inch (4") is correct. See amended drwg.**
18. Ref. Fuel Oil Piping: the RFQ does not have any information on the size, location or if the pipe is underground or above ground. Please provide. **The size should be recommended by the vendor of the equipment and shall be installed above grade.**
19. Reference point C-1 on the right hand center of P&I Drawing M2100: What does "PIT COTTON" refer to? **Material collected from effluent (NC).**

20. Ref Detail 2 shown at the right hand bottom corner of Drawing M2301:
Shouldn't the 6" x 6" SS TEE be a 90 degree ell? **Yes** If not where does the 6" pipe continue too?
21. If the answer to question #4 above is 316L thin wall, are we to Schedule 10 or Schedule 5? If the answer to question #4 above is 304L schedule 40, are we to use "true" schedule 40 or Std Wt for 12" and above sizes? Should either selection be seamless? Please note that it will be impossible to furnish "Domestic SS Pipe" in some sizes, particular the large bore sizes. **Standard wt. S/S 316L ASTM-A312/A312M**
22. Regarding Spec. Section 01006, Paragraph 1.7.4.2.1, pg. 4. With the defined construction operation hours of 7:30 AM to 4:00 PM and the Facility Operating Contractor's Staff working hours of 8:00 AM to 4:30 PM, will Hot Work permits be issued on a weekly basis or daily basis (and if daily, can they be issued on the preceding day)? **Weekly Basis**
23. Regarding Spec. Section 01006, Paragraph 1.7.4.2.2, pg. 4. Will any portion of the work for this project be in any areas where acid-resistant Gore-Tex or Nomex Gore-Tex protective clothing will be required to be worn? If so, what is the cost for procuring this safety equipment from the Operating Contractor and for the servicing of same by the Operating Contractor? **Areas around buildings 3019 and 3002 (50' radius) require acid protective clothing \$450/pr.**
24. Regarding Spec. Section 01006, Paragraph 1.7.4.2.3, pg.4. Will the new pumps be required to be "on hand" prior to starting the work? **NO.**
25. Regarding Spec. Section 01006, Paragraph 1.7.4.2.6 & Paragraph 1.7.4.2.7, pg. 5. Are we correct in anticipating the Area Entry Permit will be issued by the Operating Contractor simultaneous with the Notice to Proceed? If not, what additional lead time are we to anticipate? **The Area Entry Permit will be issued at the contractor's request prior to mobilizing the site.**
26. Regarding Spec. Section 01006, Paragraph 1.8.4, pg. 7. Are there any services with the area of this project that will require any non project standard work hours? If so, please define. **Tie-ins for filter water ,domestic water, storm sewer, etc.**

- 27.Regarding Spec. Section 01006, Paragraph 1.7.3, pg. 3 and Section 01111, Paragraph 1.3.2.6, pg. 18. How is the contractor expected to quantify and adequately anticipate the cost and risk associated with the Operating Contractor and/or the US Government not accepting the responsibility for the adequate removal of the explosive manufacturing residue? **This paragraph provides information that propellants and explosives could be encountered and it is the contractor's responsibility to alert his employees to this situation.**
- 28.Please address testing and disposal of contaminated soils from excavation. **The site has been sampled and is considered a clean site.**
- 29.Are soil borings available electronically? **Will be made available.**
- 30.Will the contaminated debris (from demolition of old tanks) be disposed of on RAAP site? **Yes, see amended sheet D2200 for removal requirements.**
- 31.Will the COE direct the (present) on site contractor to vacate the construction area or will COE delay NTP until he finishes. **The construction contractor will be complete prior to the NTP.**
- 32.The stainless steel WT beams designated on the structural drawings are not manufactured. We have been in contact with one of our representatives and he informed us that stainless steel beams are not available in the sizes required for this project. The WT's would have to be manufactured out of 2 plates welded together and with the amount of material needed, the cost will be outrageously high. We need to know how to proceed with pricing for this job, so we feel the engineers need to be contacted concerning this matter. **Yes, you are correct, the WT beams will require fabrication.**
- 33.Also, we have been informed that nuclear welding might be necessary for this job, however, there is no mention of this in the steel specifications. Can you shed any light on this subject? **The welding information is in the specifications.**
- 34.There is no information in the steel specs as to what type of grating is to be used at the catwalk area. We need to know this in order to get prices from our distributor. There is also no information on the plans or in the specs as to what surface the 5/8" stainless steel plate has. Is this plate smooth or is it checkered or diamond plate? **See specification section 5500A, para. 2.8 and 2.9. Stainless steel plate for tanks is smooth.**

- 35.Regarding Spec. Section 15200A, Paragraph 2.6.2, pg. 27. This paragraph states “Requirements relative ... on the Valve Schedule and Operator Schedule located on the contract drawings.” We cannot find the Valve Schedule or the Operator Schedule in the contract drawings. Please provide ASAP. **See general note in amendment.**
- 36.Regarding Spec. Section 15200A, Paragraph 2.6.3.1, pg. 27. This paragraph has two subparagraphs (b. and c.) which deal with swing check valves of the same size and have different requirements. Which of these subparagraphs is applicable? **See general note in amendment.**
- 37.Regarding Spec. Section 15200A, Paragraph 2.6.8.1, pg. 31, Paragraph 2.9.6.1.a, pg. 36 and Paragraph 2.9.6.1.b, pg. 36. These paragraphs again make reference to the Valve Schedule. Without this schedule we are unable to adequately obtain pricing for the valves for this project. Please provide ASAP. **See general note in amendment.**
- 38.Regarding Spec. Section 15200A, Paragraph 3.1.2.3, pg. 39. Reference is made to Section 05093, Welding Pressure Piping. This section is not included in the project specifications. Please provide ASAP. **Specification is provided.**
- 39.Regarding Spec. Section 15200A, Paragraph 3.2.3, pg. 40. This paragraph states “Additional pipe anchors and flexible couplings beyond those shown on the contract drawings, shall be provided to facilitate piping installation, in accordance with reviewed shop drawings.” We were not aware that this was to be a “design/build” project. How are we to anticipate any requirements beyond those shown on the contract drawings? **See paragraph 3.11 and 3.11.1, pipe supports shall meet the requirements of MSS SP-58.**
- 40.Regarding Spec. Section 15200A, Paragraph 2.3.1.1, pg. 22. This paragraph requires seamless pipe for the A 312 material and does not indicate seamless or ERW for A 814 material. Is seamless definitely required? Delivery of a large quantity of seamless stainless steel pipe will be extremely difficult to obtain in a timely manner. Please respond ASAP. **The piping shall meet A312, allows for seamless & welded pipe.**
- 41.Drawing M2301 shows a bellows expansion joint on PWW-105-16”-156L-N with the note “Location of Bellows Expansion Joint every 150””. Does this

note also apply to PS-118-6"-156L-N that follows (above) PWW-105-16"-156L-N? **No.**

42. Drawing M2600, Section "C"/M2600/M2600 and Detail 1/M2300/M2300 shows line PS-118-6"-156L-C (insulated for cold) while showing the preceding line (PS-117-6"-156L-N) to be uninsulated and the continuation on Drawing M2300 and M2301 shows line PS-117-6"-156L-N to be uninsulated. Which is correct? **PS-118-6"-156L is not insulated.**
43. Drawing M2100 shows a gravity drain connection to PWW-105-16"-156L-N from line PS-118-6"-156L-N while the orthographic drawing (M2301) does not show this connection. Which is correct? **See drawing C-2201.**
44. Will the new construction need to be completed, in operation and accepted by the owner before demolition of the existing structures? **See Note #5 on D2300.**
45. To expound further on the previous question, is there any phasing required for this project? **Phasing will be required for tie-in to existing utilities.**
46. Can demo material be dumped at disposal area on plant site? **No**
47. Will acid brick shown on demo drawings be removed by separate contract or by Alliant personnel? **By Contractor, see amended demo sheet.**
48. Do we have to fence in area along PWW concrete trench? **No.**
49. Drwg #S2100 sec A shows settling pit concrete slab thickness as 2' 6". Drwg. # S2103 sec A shows it to be 3' 0"-Which one is correct? **2'-6" is correct.**
50. Drwg #S2200 sec A shows pump pit slab thickness to be 6' 0". Drwg. #S2201 sec A shows it to be 3' 0". Which one is correct? **2'-6"**
51. Is there any new fence construction? **Yes, on substation**
52. There is no asbestos abatement shown on the drawings, nor is there any asbestos abatement survey, what is the extent of the abatement? Will you be furnishing a survey? **See D2102 roofing material and siding, shingles are asbestos.**

53. Section 2080 para. 1.4.1 Description of Work, states that the contractor will perform a survey and provide unit rates for asbestos removal. Will the survey be paid for as a modification to the contract? Is the cost for the survey to be included with our lump sum bid? Will the unit rates for asbestos removal be paid for by a contract modification? **Sentence has been changed to read as follows: “During initial demolition, the Contractor determine the extent of friable ACM and shall provide a lump sum cost for disposal as a change condition. Preliminary field unsubstantiated analysis indicates mainly non-friable ACM.**

54. There is no specification for lead abatement or lead survey, yet Drawing D2100 states lead removal will be required. Will the contracting office provide a survey or other means to quantify the amount and type of abatement? Will lead abatement be handled as a contract modification? No lead abatement anticipated. **See answer above.**

55. Section 0145A-Contractor Quality Control – Please answer the following questions on this spec section.

A. Is a Safety and Health Manager required, one is mentioned in para 3.4.1?
See specification 01111.

B. If so, what are the qualifications? **See specification 01111.**

C. Is he required full time and to have no other duties? **See specification 01111.**

D. There is very little civil work on this project, can civil QC, structural QC and concrete technician be combined into one individual with a civil or structural engineering degree to be full time during all site, concrete and structural work? **Any qualified engineer.**

E. During what phase of work would an Environmental Engineer be required?
See specification 01355.

F. I cannot find the fiberglass lining, is it the coating system required in the concrete tanks? **No** If not, are we required to have the fiberglass lining technician? **The concrete coating system technician.**

57. Dwg. #EX2400 lists Conduit and Cable Schedule E2400, where is this schedule? Dwg #EX2401 lists Conduit and Cable Schedule E2407, where is this schedule? Will these schedules be issued by amendments? **These are the schedules**

58. Are there any soil borings available? Will they be issued by amendment? **Yes**

59. Is the 6" sub-base shown in a detail on Dwg #G0005 to be Portland Cement-Stabilized Sub-base? **No, 21a stone.**

60. Regarding Specification Section 05090, Paragraph 1.3, pg. 330. Reference is made to Alliant Engineering Standard 1CS-15500 entitled "piping Fabrication, Erection and Testing", these are not included in the IFB Documents. If we are to comply with these requirements, please forward a copy ASAP. **Provided by amendment.**

61. Reference Spec. Section 152, Paragraph 2.1.4, pg. 19. The first sentence of this paragraph reads "Ductile iron piping shall be coated with the manufacturer's standard asphaltic coating, ..., applied to the outside of pipe and fittings" and continues with "hot-dipped galvanized in accordance with ASTM A 153/A 153M" I do not understand this additional reference to the hot-dipped galvanized. Is the additional reference correct? **This is below grade to above grade connections.**

62. Regarding Spec. Section 15200A, Paragraph 2.3.1.1, pg 22 Specification calls for TP304L, Schedule 40 seamless stainless steel for pipe and the Pipe Schedule on Drawing G0008 indicates TP316L thin wall stainless steel. **Standard wt. S/S 316L ASTM-A312/A312M?**

63. Regarding Spec. Section 15200A, Paragraph 2.9.1.3, pg 33. End connections for 4 inch and larger air and vacuum valves suitable for corrosive services are not specified completely. Please provide the pressure class rating of the flange connections. **150#**

64. Regarding Spec. Section 15200A, paragraph 3.16, pg. 52. Reference is made to a Valve Schedule and Valve Operator Schedule. We cannot find either of these schedules, please provide ASAP. **See amendment.**