

RFIs

12/6/22

FORT INDIANTOWN GAP, BUILDING 19-101 HANGAR HVAC/LED UPGRADES

42190080

References:

224000 Plumbing Fixtures revised

SK.001 Revised Shower Male

SK.002 Revised Plumbing Fixture Schedule

.0 Administrative

- 1.** Question: Please go to the PA Supplier Portal – pasupplierportal.state.pa.us to upload your bid submissions.
- 2.** Question: Do the RFI's and information from the previous bid apply to this bid?
Answer: RFI information has been incorporated into the drawings and SOW for this bid. Only information specifically indicated in this bid is applicable. If there are items contained in previous bid RFI's and you are unsure, please ensure you ask the question prior to December 6.
- 3.** Question: How are base bids to be broken out?
Answer: Base bids are additive in that Base bid 2 INCLUDES the items in Base bid 1. Example: If your base bid one is 500,000 and additive items in base bid 2 are 200,000, then your bid for Base bid 2 is 700,000.

.1 General

- 1.** Question: Is there a warranty on the roof?
Answer: Yes. The current warranty paperwork will be provided to the selected contractor.
- 2.** Question: Drawing A1.0 notes 1 & 6 call for the .1 General Contractor to remove water closets, showers, stall, and controls. Note 3 on Drawing P1.2 states that the Plumber is to remove. Kindly advise which constructor is responsible for this task.

Answer: Plumbing Contractor (.3) is to remove all existing fixtures, controls, and piping.
- 3.** Question: Drawing P1.2, note 11 states .2 contractor to saw cut and remove existing concrete floors. Daring p1.2 states the General Contractor. Kindly advise which constructor is responsible for concrete removal, as well as who is responsible to retore and pour concrete.

Answer: Plumbing Contractor (.3) is responsible for the saw cutting and patching necessary for the new installation of sanitary piping.

4. Question: Specifications call for cold form metal framing in the areas where new drywall ceilings get installed. Please advise if the Armstrong drywall grid system or Chicago grid will be an acceptable system for hanging drywall instead of cold formed metal framing.

Answer: Drywall grid systems will not be an accepted substitution for the specified metal ceiling joists

.2 Mechanical

1. Question: Does the ceiling in the latrine come down?

Answer: No, duct work needs completed in accordance with the SOW and drawings, however, the ceiling does not come down.

2. Question: Do all existing lay-in ceilings have gypsum board ceilings above them?

Answer: Bid as if most drop ceilings have hard ceilings above, unless known otherwise.

3. Question: Where there is existing mechanical work to be removed above existing to remain gypsum board ceilings with new lay-in ceilings below, is the mechanical work to be removed or abandoned in place? If the mechanical work is to be removed must the concealed gypsum board ceiling be patched?

Answer: Remove existing mechanical work. No work to be abandoned in place; Patched with half inch drywall, not finished in concealed areas but must be finished and painted in exposed areas.

4. Question: May new mechanical work be supported from the existing to remain concealed gypsum board ceilings above new lay-in ceilings or must the mechanical work be supported from the roof structural?

Answer: Must be supported from structure above concealed ceilings.

5. Question: Will all existing hard ceilings be removed?

Answer: No

6. Question: From the walk through it appeared that the existing hard ceilings are plaster. Is this correct? Where existing hard ceilings are removed for mechanical demo and new work must the ceiling be replaced in kind or may it be replaced with gypsum board?

Answer: Patched with half inch drywall, not finished in concealed areas but must be finished and painted in exposed areas.

7. Question: Please confirm that all existing ceilings will be removed.

Answer: Ceilings will be removed per the architectural plans and specifications.

8. Question: The Reflected Ceiling Plan does not show any gypsum board ceilings. Are there any existing to remain or new gypsum board ceilings? Please confirm that all ceilings other than those shown as ceiling grid/tiles are exposed structure unless specifically noted on the drawings as being gypsum board.

Answer: Refer to the architectural schedules for ceiling information.

9. Question: Most piping is not shown on the HVAC demolition drawings. Where unit heaters, cabinet unit heaters and baseboard radiation are removed and replaced with new does the piping get removed only as necessary to perform the replacement?

Answer: Correct, the piping is only removed as necessary for equipment replacement. Where the equipment is not replaced, cap flush with the ceiling or walls.

10. Question: Will the owner furnishings be moved out of the way by the owner?

Answer: The owner will remove / relocate furnishings as required for the work. Many furnishing or equipment may remain and will need to be worked around or over. These items will be discussed on a case by case basis.

11. Question: What areas around the building may a crane set or not set?

Answer: Crane location will need to be coordinated with flight activities which will differ depending on timing. The agency will make every effort to accommodate this work

12. Question: There are no structural details for the Rooftop Gas Heat/AC Packaged Units and Roof Exhaust Fans. Please confirm whether structural is required, who provides it and details for what is required.

Answer: Structural modifications are not needed for the rooftop units or exhaust fans. Install with roof curb per manufacturer's installation instructions.

13. Question: The GC provides the steel columns for the ERV dunnage. Will the GC provide the roofing at these columns?

Answer: Yes, the GC will provide roof patching as necessary.

14. Question: Please confirm the PC has the gas piping and gas regulators for the HVAC equipment.

Answer: The .3 contractor shall provide gas piping and regulators.

15. Question: The specifications have the MC providing the temporary HVAC, power, lighting, and water/sewer. Included with this is utility use charges, temporary meters and connections. These items except for temporary HVAC are almost always by the

other trades. Please confirm the MC is responsible for the temporary HVAC and usage charges only.

Answer: Temporary heat is by the .2 contractor. Temporary power and lighting is by the .4 contractor. The using agency will pay for temporary connection where the permanent systems / utilities are utilized

16. Question: Please confirm duct cleaning by mechanical methods is required only where noted specifically on the drawings.

Answer: Delete ductwork cleaning. Ductwork cleaning is not required

17. Question: Will the building be occupied during construction and if so is there any Phasing Plan?

Answer: The building will be partially occupied. Coordination will be discussed at the initial job conference.

18. Question: Is any Testing and Balancing required for the existing to remain HVAC equipment?

Answer: No, testing and balancing only pertains to the new systems / equipment.

19. Question: Are vibration isolation roof curbs required for the RTU and Roof Exhaust Fans?

Answer: Vibration isolation is integral with the equipment

20. Question: Is vibration isolation required for the ERV and if so what type?

Answer: Vibration isolation is integral with the equipment

21. Question: Is any MEP painting required and if so what gets painted and by who?

Answer: Any patching on the existing building by the associated trade will need to paint and patch to match existing

22. Question: Is the roof under any warranty and if so please provide the manufacturer, type of product, installer/warranty holder contact information.

Answer: Information on the roof will be provide at the initial job conference

23. Question: The specifications call for the exhaust duct to be insulated. Is all exhaust duct to be insulated or only from the damper to the outside.

Answer: Exhaust ductwork does not require insulation

24. Question: Is the Two-Way Valve Coil Piping Detail on H.3.1 for the Cabinet Unit Heaters?

Answer: Yes, the two-way valve coil piping detail is for the cabinet unit heaters.

25. Question: What type of outlet terminal is to be provided for LEV-2?

Answer: Provide weather cap with backdraft damper and birdscreen.

26. Question: Does LEV-1 get vented to the outside and if so how?

Answer: Provide weather cap with backdraft damper and birdscreen.

27. Question: Please confirm the MC does not have any Allowances to be included in the bid.

Answer: No allowances are to be included by the .2 contractor

28. Question: There are no HVAC control specifications, please advise.

Answer: Johnson controls is the proprietary controls vendor. Contact Johnson controls for scope of work and pricing prior to bidding.

29. Question: The MC is responsible for temporary HVAC. May the new and existing to remain systems be used for this, will the owner pay the usage charges and must any of the systems be mechanically cleaned if they are protected during construction?

Answer: The existing (or portion of the existing) building systems may be utilized for temporary heat.

30. Question: Please provide sizing and layout for the ERV equipment support beams and the duct penetration framing as the equipment manufacturers will not provide this.

Answer: Support beam sizing and details are shown on A.3.1. Duct sizing and equipment sizing will depend on the manufacturer. The ERVs are not proprietary, and substitutions are permitted. Upon unit selection, structural modifications and ductwork sizing will be confirmed. Ductwork will be transitioned from the ERV inlet / outlet to the sizing shown on the plans.

31. Question: Where unit heaters and cabinet unit heaters are to be replaced, are we to retain the branch lines or must the branch lines be replaced back to the mains due to sizing?

Answer: Replace piping, valves, and accessories only as shown on the plans and per the details.

32. Question: The HVAC plans show flex duct being run in areas where there are no ceilings. Please advise.

Answer: Bid per flex ductwork shown on the plans. Any discrepancies with the ceiling will be addressed after award.

33. Question: The basis of design manufacturer for the LEV-2 said they can't quote the fan/system without knowing the application and what work is being performed in the room. Their fans are not designed to work with combustible dust. Please advise.

Answer: LEV-2 is dedicated for grinding and sanding activities (noncombustible).

34. Question: Where patching and painting is required may the walls be spot painted in lieu of painting to breaks in the construction?

Answer: Paint to match existing. Means and methods by the contractor.

35. Question: What are the insulation requirements for the refrigerant piping and the condensate piping?

Answer: Use pre-insulated line sets by the equipment manufacturer or 1" closed cell insulation. Condensate piping can be non-insulated PVC

36. Question: Is the condensate that is run to grade to be run in piping covers on the outside of the wall, exposed on the outside of the wall or are the walls to be opened up for the piping and then patched.

Answer: Condensate may be run exposed on the exterior of the walls

37. Question: What material is the hot water heating piping to be and how is it to be insulated?

Answer: Hot water heating piping shall be schedule 40 black steel. Insulation is not required for the heating hot water piping

38. Question: The detail for the horizontal unit heaters does not show a control valve. Do the unit heaters get control valves?

Answer: A thermostatic control valve shall be provided and connected to the thermostat. Coordinate with Johnson Controls

39. Question: There are no vibration isolation specifications or schedules. What all equipment gets vibration isolation and what type?

Answer: Vibration isolators are provided per equipment manufacturer and shall be provided per specifications.

40. Question: Please confirm no duct gets duct liner

Answer: All ductwork insulation shall be externally wrapped.

41. Question: Due to the fact that the RFI period ends tomorrow, the numerous RFI's and the likelihood that the Flyer that will address the RFI's will only be issued next week about mid-week, there is the high probability that the mechanical bid may not be able to be completed by the bid due date as it stands now. Please consider a bid extension.

Answer: From procurement

42. Question: May cover plates be used in lieu of patching walls and restoring the wall finish where HVAC thermostats are removed and not replaced with new?

Answer: Yes, cover plates may be used

.3 Plumbing

1. Question: Drawing P2.1 Shower Room 122, states replace shower heads and thermostatic mixing valve typical for 12. There are only 10 existing shower heads.

Answer: Replacement shower valve and shower head Basis of Design can be found on attached revision sheet SK.002. No additional shower heads are to be provided.

2. Question: Drawing P2.1 states replace trench drain to match existing. There are only 2 or 3 drains in the shower areas.

Answer: Replace drains in existing locations. Basis of Design is found on attached SK.002.

3. Question: Please review the layout and sizing of the gas piping. Drawing P2.2 shows 1 ½" pipe from meter into building. From that point on the drawing, it shows 1" pipe then at RTU21 it shows 1 1/2" pipe again. Something seems out of place.

Answer: The 1-1/2" gas pipe serving RTU-21 is after the 5psi regulator. The 1-1/2" gas pipe serving RTU-21 is shown correctly. The 1" pipe size indicated on the line serving RTU-21 is for the pipe before the pressure regulator.

4. Question: Dwg. P.2.1, indicates to replace shower heads and Thermostatic mixing valve in the showers 122 and the female Latrine 141A. Could a spec be provided for the shower heads and faucets? Also, on Dwg. A.1.0, Note 5, indicates Existing shower heads and controls are to remain in place for the showers 122. Do the shower faucets and heads get replaced in showers 122?

Answer: Replace all shower faucets and shower heads in room 122 SHOWERS. See SK.002 and revise specification 224000 for additional requirements.

5. Question: Could a spec. be provided for the floor drains and shower drains in Female Latrine 141A?

Answer: See SK.002 for shower drain Basis of Design.

6. Question: Dwg. P.2.1, fixture schedule indicates An American Standard 3447101.020 Glenwall water closet, which is a wall hung water closet with a tank. Spec, section 224000 indicates water closets with flushometer valve's. Which water closet is the basis of design?

Answer: Refer to SK.002 and revised Specification for clarification.

7. Question: Are we to provide new shower heads?

Answer: Yes, refer to attached SK.002 and revised specification section.

8. Question: What is the size of the gas line, it appears to b 1 ½" on the ends and 1" in the middle on the drawings, can you confirm this correct.

Answer: The 1-1/2" gas pipe serving RTU-21 is after the 5psi regulator. The 1-1/2" gas pipe serving RTU-21 is shown correctly. The 1" pipe size indicated on the line serving RTU-21 is for the pipe before the pressure regulator.

.4 Electric

1. Question: Should panel HN2 be supplied under BB1 or only if BB2 is accepted?

Answer: Panel 'HN2' shall be supplied under BB1.

2. Question: Should panel LN2 be supplied under BB1, or only if BB2 is accepted?

Answer: Panel 'LN2' shall be supplied under BB1.

3. Question: Do the device symbols with a square box around them indicate surface raceway or surface Wiremold?

Answer: Devices with a box indicate surface mounting, generally via EMT conduit. This method is to help delineate existing flush mounted outlets. Surface wireway is not used.

4. Question: Should the 160 hours mentioned in general note 15 be included in BB1 and again in BB2 for a total of 320 hours or is 160 hours enough BB1 or BB2 is accepted?

Answer: The 160 hours mentioned in general note 15 shall only be included in BB1 and shall not be duplicated in BB2.

5. Question: Does the wiring in room #138 need to be in GRC conduit?

Answer: It is assumed that GRC is actually Galvanized RMC as per NEC (or commonly referred to as RGS). Room #138 (as per electrical plans) does not require G-RMC conduit (RGS). Use EMT.

Clarification from Electrical Engineer:

All boxes shall be surface, double gang, regardless of the number of devices, with an appropriate cover plate. All new (Data, switch, outlet, etc) shall be mounted at 48" above finished floor (AFF) to the top of the box. Generally, all conduit shall be EMT (unless specific conditions dictate otherwise) and shall be surface mounted. Data conduit shall rise to above ceiling and/or steel height and be complete with bushings. All data cable shall be routed at right angles and trained neatly along steel, etc., and hung with appropriate fasteners and or J hooks at appropriate distances.

All electrical infrastructure and/or distribution work, to include Fault current studies (and others associated), panelboards, relocation of existing transformers and panelboards, and ALL branch circuit breakers shall be included in BB1. BB2 branch circuits are delineated in panelboard notes at the bottom of the affected panels.