

Construction of the Flight Projects Building
Solicitation No. NNG12412656E
Questions and Responses
August 21, 2012

1. *Question: Section 1 on A-714 indicates an enclosure around the tube steel stringer for Stair #3. One side of the stringer designates “Steel Plate”, the other side is “Metal Cladding”. The bottom is “Metal Panel”. There are 4 fins at the corners that are not identified. What are the materials for this enclosure?*

Response: The two sides of the Tube Steel stringers are wrapped with Steel plates with welded steel plate fins on top and bottom to match the profile shown in the drawing. These steel elements should be ground smooth, polished and painted with high performance epoxy coating. The bottom of the stringer should have an inset clip angle for metal panel attachment, housing the sprinkler conduit line and concealed sprinkler head.

2. *Question: Section 1 on A-714 indicates at the floor slab indicates a glass guardrail with a similar outrigger connection to the floor beam. Section 14 on S-313 indicates a 5/8” x 6” steel plate connecting to the floor beam. Please clarify.*

Response: The Guardrail post connection at the floor slab is similar to the connection at the center stringer. The L-shape post/outrigger support arm is a single piece, bolt connected to the support shoe that is welded to the center stringer. Finish ground smooth and polished.

3. *Question: Drawings A-701 thru A-714, Note 5 indicates AESS for the exposed stair structure. Does this note apply only to the steel tube supports for the stairs or does it also apply to floor beams that are exposed to view such as beams along column lines D & F in sections 1 & 3 on A-713 and the beams at column line 9.4 in section 1 on A-714?*

Response: Note 5 indicating AESS is to be applied to all exposed steel.

4. *Question: Drawings S-101a – S-104b indicate Pantry Wall Support Posts. These are detailed in sections 3 & 4 on S-315. These sections state “See Arch”. Enlarged Plan 1 and Sections 2 & 3 on A-947 indicate wood framing and do not show any steel framing. Please clarify.*

Response: Please disregard the HSS 3x2x1/4 Cantilever beam indicated in detail 3 & 4/S-315.

5. *Question: Drawing A-107, Key Note 8 indicates hinged operable steel pipe railings. Please provide details.*

Response: For keynote #8 on drawing A-107, Provide a 3’-0” wide galvanized steel self closing safety gate integrated with the steel guardrail system engineered and designed to meet specification section 05 52 00 requirements.

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6. *Question: Drawing A-107, Key Note 7 indicates steel pipe railing. It is shown in stair sections on A-705 and 3D views on A-706 as a 7 line rail. Please provide details.*

Response: For Key Note #7 on Drawing A-107, provide a galvanized steel guardrail that meets OSHA Requirements.

- **Welded 1-1/2" top and mid-rail with 2" Post.**
- **With a Footplate and anchor bolt to roof slab.**
- **The Guardrail should be engineered and designed to meet spec section 05 52 00 requirement.**

7. *Question: Pages 8 and 10 from Section 26 20 00 are missing. In place of these pages, there are two other pages from Sections 26 11 16 and 26 09 23.40. Could you please provide those pages?*

Response: The missing pages for Section 26 20 00 was provided under Amendment 6 issued on August 20, 2012.

8. *Question: Please confirm the minimum size of conduit .Per Section 26 20 00, paragraph 2.3.1 it is 1/2 " and per paragraph 3.1.5, same section it is 3/4".*

Response: Minimum conduit size for all types of conduits is 3/4".

9. *Question: Drawing M-401 detail # 2 calls for 1-1/2" steam & 1" condensate. Drawing M-601 the hydronic riser calls for 2" steam & 1-1/2" condensate. Please clarify.*

Response: Please use the 2" steam & 1-1/2" condensate at the risers.

10. *Question: Drawing M-601 hydronic riser calls for 1" steam and 3/4" steam to the AHU's. Please clarify what size the steam and condensate lines should be.*

Response: Please use the 1-1/2" steam & 1" condensate as the branches to the air handlers (ACS).

11. *Question: Please issue detail of pressure reducing station with sizes.*

Response: This is the work of the steam specialty. The steam contractor shall size the valves and identify the pipe sizes to meet the design intent.

12. *Question: Sign type G is specified as a Stainless Steel Evac. Sign. May we give you a less costly option? Is that acceptable. We can quote both, but not sure if you are interested in other options.*

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Response: Please follow the specification requirement for pricing purposes.

13. Question: Fire Alarm specifications and drawings indicate that hard wiring from the new building to various existing buildings will be required. Please indicate who is responsible for providing this wiring.

Response: The fire alarm contractor for the Flight Projects Building shall provide two ¾ inch conduits between the planned main Fire Alarm Control Panel in the main electrical room on Level 1 of the Flight Projects Building and the telecom termination point in the main telecom room on Level 1 of the Flight Projects Building. The conduits shall be ready to accept the installation of three fiber optic cables (two fire alarm in Style 7 configuration, one mass notification), to be installed by others. Conduit installation shall be in accordance with Specification Section 28 31 76.

14. Question: If wiring is within the responsibility of this contract, please provide drawings, sketches, design requirements, location within individual buildings, distances, underground routings, etc., so as to correctly price.

Response: The fire alarm contractor for the Flight Projects Building shall provide termination cards for the fire alarm and mass notification circuits within the main Fire Alarm Control Panel at the Flight Projects Building to allow communication to the campus network via single-mode fiber optic connections.

15. Question: The following buildings are mentioned in the specification section 28 31 76: bldg. 22, bldg. 24 and bldg. 31. The following buildings are mentioned on the drawings: B9, B26 and B31. Please provide building locations and ductbank/manhole locations identifying complete information for pulling cable, if required by this contract.

Response: Underground cabling required to connect the Flight Projects Building fire alarm and mass notification systems to the Goddard campus network is by others.

16. Question: Please provide cable requirements, if required by this contract.

Response: The fire alarm contractor for the Flight Projects Building shall provide final termination and programming for the tie-in to the campus fire alarm and mass notification system. This programming shall allow the Flight Projects Building to transmit fire alarm signals to the Operators Work Station at Building 31, and the Back-Up Operators Work Station at Building 24.

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17. *Question: We are working on the quote for the signage for Bldg 36 of the NASA project but I see Sign Type A/B/C & E are sized at 6" h x 8" w. To meet the ADA law the copy needs to be on the lower portion of the sign and the pictogram area needs to be 6" h so this sign will need to be 10" h x 8" w to meet the ADA laws. Can you please clarify how you want this priced?*

Response: Please increase the pictogram area to 6" and move the room number below the pictogram and above the room name. Please increase the sign size to be a 10" x 8".

18. *Question: Who is responsible for installing the metal mesh riser located on stairs #1,#2 and #3?*

Response: The General Contractor determines the division of labor for the construction subcontractors.

19. *Question: Per drawing E-001, Card Readers require one (1)- 1-1/4" conduit 6" above ceiling and one (1)- 4" JB(which is not good for 1-1/4" conduit) per detail 8 on drawing E-801; however, on drawing E-800, details 9,10 and 11 are showing very different requirements. Which one is applicable?*

Response: The most stringent requirement is applicable. Coordinate with the security contactor for exact equipments.

20. *Question: Detail 11-A941. Please clarify the acrylic mailbox slots. The mail sorting cabinet lists 3 tiers of 3" sliding clear acrylic mail trays on side to side guides at 1/2" increments. We are having trouble understanding what is required.*

Response: The acrylic mailboxes are custom modular millwork similar to:

- Hamilton Sorter
- Neocase
- Modular Millwork

Please disregard the 3" on the note. It should read "3 tiers of sliding clear acrylic mail tray on side to side guides at 1/2" increments."

21. *Question: What cabling needs to be pulled to the manhole for building services?*

Response: Refer to drawing E-600 for electrical service cable requirements.

22. *Question: Who will be completing the splicing of said cables in the manhole?*

Response: Splicing of cables in the manhole is the General Contractor's responsibility.

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23. *Question: Please issue cooling coil hook up detail for the AHU's.*

Response: See detail # 14 on M-503.

24. *Question: Drawing M-504 detail # 3 chilled beam hook up shows a flexible connector. The chilled beams don't have any moving parts. Will a flexible connector still be required?*

Response: Yes, it provides flexibility for possible future shifting around the ceiling tiles.

25. *Question: Drawing P-703 storm riser # 3 shows 2 more roof drains then the plan view. Please clarify.*

Response: Please refer to the roof drain locations shown on the floor plans.

26. *Question: Drawing M-601 detail for Pump Room C110 shows a flash tank before the condensate enters the pump. The schedule on drawing M-007 lists 4 flash tanks. Please clarify where the remaining 3 tanks are located.*

Response: There are 4 steam condensate receivers in the building. Each flash tank associates with a receiver. They are for HWC001, Domestic water heater and steam humidifiers at two ACS units.

POTENTIAL BIDDERS

The cut-off date to submit questions to the Contracting Officer was Tuesday August 21, 2012 by twelve (12) noon. This will allow the Government time to ensure that all quests have been answered and posted through the Government Websites (NASA/FedBizOps) in a timely manner before the bid opening date of August, 27, 2012.

[End of Questions/Responses]