



CITY OF HOUSTON

Sylvester Turner

Mayor



HOUSTON AIRPORT SYSTEM

George Bush Intercontinental ~ William P. Hobby ~ Ellington Airport

Mario C. Diaz
Director of Aviation

November 2, 2023

SUBJECT: Addendum No. 7

REFERENCE: Invitation To Bid (ITB) for the IAH Integrated Coordination Center at George Bush Intercontinental Airport; Solicitation No. H06-IAHICC-2024-004; Project No. 793

To: All Prospective Bidders:

This Addendum is issued for the following reasons:

I. Extend the Bid Due Date from **November 9, 2023, to November 16, 2023, at 10:30 A.M., CT.**

II. Replace the following pages with the attached document outlined below:

1. Workstation Consoles – Revised 11/01/2023.

III. To Respond to the following Questions.

1. **Question:** Based on Addendum 6 and its release there are numerous discrepancies between it, drawings, drawing BOM and older specification. Section 2.1.C.6. calls for a keyboard platform with 2 lifting columns. Is this required? It was not in the previous drawings or description. Original bid request is single surface.

Response: Keyboard platform not required.

2. **Question:** Section 2.1.J.3. calls for Evans nosing. This is a proprietary item specific to Evans and not available anywhere else. We offer a very durable injection molded ergonomic waterfall nosing with a lifetime warranty, is this sufficient. As per earlier Addendum alternates were allowed based on footprint and monitor configuration match.

Response: Please provide typical manufacturer nosing.

3. **Question:** Section 2.1.K.4 calls out a solid surface. The finish schedule(console BOM T601)) references a laminate finish. Do we proceed with laminate?

Response: Please proceed with laminate.

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4. **Question:** Section 2.1.L – this is PowerLink and modular power system. There is a discrepancy between the spec, drawing, and electrical plan. Based on the electrical plan provided, there will be floor power at each position. So standard 15A power bars plugged into the floor should be acceptable. Evans drawings also call for 15A power bars the specification references the proprietary PowerLink module. Which system is required?

Response: Standard 15A power bars are sufficient.

5. **Question:** Section: 2.1.E.1 cabinet to be at least 10” from the floor. Adaptaspace was deemed an acceptable alternative if we met the footprint and equipment requirements. Can we ignore this?

Response: The Workstation console must meet footprint and equipment requirements.

6. **Question:** Section 2.1.I.1 Display (Monitor) Management: Are they looking for a Monitor Array Slat Rail or a Slatwall? The drawings are consistent with a slat rail monitor array, there is no Slatwall, and the new spec calls for both. To have both is redundant and very expensive. There is a big cost difference, and this needs to be clarified. See pictures below. The Slat Rail Monitor Array matches the drawings.

Response: Please provide slat rail monitor array, not slatwall.

7. **Question:** Section : 2.1.N.1 Environmental Management System- Is the environment system to be included or listed as an option?

Response: Include environmental system as an option, as indicated in specifications.

8. **Question:** If possible, an extension to November 16th is requested to allow us to incorporate any answers we may receive from our questions.

Response: Please refer to the response provided for Roman numeral one.

When issued, Addendum shall automatically become part of the solicitation documents and shall supersede any previous specification(s) and/or provision(s) in conflict with the Addendum. Addendum will be incorporated into the Agreement as applicable. It is the responsibility of the bidder(s) to ensure that it has obtained all such letter(s). By submitting a bid on this project, bidder(s) shall be deemed to have received all Addendum and to have incorporated them into their bid.

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If further clarification is needed regarding this solicitation, please contact Senior Procurement Specialist, David Martinez via email at david.martinez@houstontx.gov.

DocuSigned by:

Cathy Vander Plaats

02232028DE99414...

Cathy Vander Plaats
Aviation Procurement Officer
Houston Airport System

CVP/dm

cc: Alfredo Oracion
Dallas Evans
Solicitation File

Attachments:

1. Workstation Consoles – Revised 11/01/2023.

SECTION 125686 – WORKSTATION CONSOLES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes:
 - 1. Workstation Consoles.

1.3 SUBMITTALS

- A. Product Data: For each type of product indicated.
- B. Samples: For each finish specified.
- C. Shop Drawings: 2D and 3D views describing all components, functionality, and equipment placement

1.4 QUALITY ASSURANCE

- A. Surface Burning Characteristics: As determined by testing identical products according to ASTM E84 or UL 723 by a qualified testing agency.
 - 1. Flame-Spread Index: Class B, flame spread index 26-75.
 - 2. Smoke Development Index: Class B, not more than 450.
- B. Manufacturer Requirements: According to listed certifications or equivalent.
 - 1. ISO-9001-2008 Certified
 - 2. ISO 14001 Certified or equivalent.
- C. Acceptable Tolerances.
 - 1. Worksurfaces for casework and consoles: 1/64"
 - 2. Metal components: 0.020"
 - 3. Casework Components: 1/64"

1.5 WARRANTY

- A. Manufacturer agrees to repair or replace components that fail in materials or workmanship within specified warranty period.
 - 1. Failures include, but are not limited to, the following:
 - a. Deterioration of finishes beyond normal weathering.
 - b. Separation or delamination of sheet materials and components.
 - 2. Warranty Period: Five years minimum from date of Substantial Completion.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Store resilient products and installation materials in dry spaces protected from the weather, with ambient temperatures maintained within range recommended by manufacturer, but not less than 50 deg F (10 deg C) or more than 90 deg F (32 deg C).

1.7 PROJECT CONDITIONS

- A. Maintain ambient temperatures within range recommended by manufacturer, but not less than 70 deg F (21 deg C) or more than 95 deg F (35 deg C), in spaces to receive resilient products during the following time periods:
 - 1. 48 hours before installation.
 - 2. During installation.
 - 3. 48 hours after installation.
- B. Until Substantial Completion, maintain ambient temperatures within range recommended by manufacturer, but not less than 55 deg F (13 deg C) or more than 95 deg F (35 deg C).
- C. Install products after finishing operations, including painting, have been completed.

PART 2 - PRODUCTS

2.1 TYPICAL WORKSTATION CONSOLE: RB-1

- A. Acceptable Manufacturers:
 - 1. Basis-of-Design Product : Subject to compliance with requirements, provide Evans Response NEXTGen or approved equal.
- B. Console Quality Standards: ISO 11064, ANSI/BIFMA X5.5, ANSI/HFES 100-2007.
 - 1. Maximum load on worksurfaces: 4800N (1080lb-force) with four lift columns.
- C. Sit/Stand Capability: Full console sit to stand height adjustment.
 - 1. Electric drive system with electric actuator to power height adjustment.

2. Lift system must compensate for differential loads from side to side, preventing racking or damage to the structure.
 3. Minimum of 2 heavy-duty electro-mechanical columns with 1200N (270lb-force) load per column.
 4. Worksurface Lift speed: 38 mm/s minimum.
 5. Worksurface height range: 28 inches (559mm) to 47.5 inches (1207mm)
 - ~~6. Keyboard platform shall use minimum 2 light-duty electro-mechanical lift columns with 1200N (270lb-force) load per column.~~
- D. Column Housings:
1. Column housing shall be modular and removable if needed.
 2. Housing to contain all the lifting mechanisms for height adjustment.
 3. Housing to be a self-contained unit providing all structural support for the lift mechanisms as well as required cable management and floor cable/data access.
 4. Provide dedicated cable access ports in each of the column housing units.
- E. Frame Configuration:
- ~~1. The span between column housings shall be free of any obstructions and the lowest point of the frame shall be at least 10" from the floor.~~
 2. Provide modular CPU storage in open frame design.
- F. Cable Management and Technology Raceway:
1. Provide continuous and reconfigurable cable and technology raceways with a minimum of 2 tiers and maximum of 5 tiers. Raceways should be easily accessed from front and rear of console.
 2. Console to have self-contained dynamic cable management system to ensure that cable transition between static and dynamic parts of the console are pre-strained and do not experience any movement, damage, or disconnection.
- G. Technology and Equipment Integration:
1. Provide reconfigurable CPU and technology enclosures.
- H. Worksurface:
1. Shall be supported by structural frame.
 2. Fastening on the underside shall be done using machine screws and appropriate threaded inserts in worksurface core.
- I. Display (Monitor) Management:
1. Slatwall & Slatrail:
 - a. Provide slatwall/slatrail mountings for a minimum of four monitors; ~~slatwall heights must be scalable from single, double, to triple tier configurations.~~
 - ~~b. Slatwall must be accessible from front and rear.~~
 - ~~c. Provide brush grommets in every section of slatwall from front to route power and data cords.~~
 - ~~d. Top of slatwall structure to incorporate edge-lit plexiglass or glass panel for console illumination.~~

- e. Slatrail frame to be secured directly to console frame using structural grade cast aluminum mounts.
 - f. Slatrail system to be constructed as a single continuous high strength piece.
 - g. Provide casting end treatments at all extrusion edges of slatrail system.
 - h. No exposed hardware on slatrail system.
 - i. Slatrail system to have full horizontal and vertical cable management, with extruded covers that can be removed without tools for all cable management channels.
 - j. No visible welds or exposed formed metal edges permissible on ~~slatwall or~~ slatrail.
 - k. Provide adjustable quick release tilt knuckles for monitor-slatrail mounts.
2. Automated Monitor Management System
- a. Provide an electrical actuated desktop monitor management system capable of manual or automated horizontal and/or vertical movement.
 - b. System to be constructed of steel and aluminum extrusions.
 - c. System to be capable of supporting up to 5 wide x 2 high standard-sized LCD monitors.
 - d. System to be controlled through integrated switch.
 - e. Minimum of 8 inches of horizontal adjustment using 1500N actuator.
 - f. Minimum of 12 inches of vertical adjustment using 800N actuator.
- J. Ergonomics:
- 1. Worksurface depth and monitor management system shall allow for adequate focal depth adjustment of monitors, at a minimum of 16 inches to 30 inches.
 - 2. Monitor mounting system with flexibility for required visual arc, and ability to adjust tilt, depth, and height.
 - ~~3. Provide soft urethane replaceable worksurface edge.~~
- K. Materials:
- 1. Metal components
 - a. Sheet Metal: Cold rolled steel with minimum yield of 27 ksi and modulus of elasticity of 29x10⁶ psi.
 - 1) Structural Components: 14 ga.
 - 2) Panels and other Components: 16 ga.
 - 3) Heavy Duty Mounts/Supports: 10 ga.
 - b. Finish: Powder coat, tested to meet ASTM D5965 (specific gravity), D523 (gloss), D1005 (thickness), D3363 (hardness), D2794 (impact resistance) D522 (mandrel), B117 (salt spray), and D1735/2247 (humidity).
 - 2. Aluminum Components
 - a. Aluminum alloy 6063-T54 with 30 KSI Yield Strength
 - b. Surface pre-treated with 3-stage cleaning process for steel and aluminum using high alkaline liquid detergents prior to 1-stage iron phosphate coating that meets Federal specifications TT-C-490, Type II
 - 3. Wood and High Pressure Laminate Panels: Meet or Exceed NEMA standards in following categories.
 - a. Thickness: 0.039 inches +/- 0.005 inches.

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- b. Impact Resistance: Greater than 30.
- c. Surface wear resistance: Meet or exceed 400.
- d. Stain resistance: No effect for reagents 1-10.
- e. Radiant heat resistance: Greater than 100 seconds.

~~4. Solid Surface~~

- ~~a. Meet standards set in ASTM D636, ASTM D790, ASTM D2583, ASTM D696, ASTM D648, ASTM D256, ASTM D792, ASTM NEMA LD 3-3.03, 3.05, 3.06, 3.08, 3.10, ANSI Z-124-3, ANSI/NSF Standard 51, ISSFA SST 2.10, 3.1-00, 4.1, 5.1, 8.1-00, 7.1, 9.1-00.~~

~~L. Electrical and Data System Requirements:~~

- ~~1. Conductive to electrical grounding without modification.~~
- ~~2. Integrated modular power distribution system~~
 - ~~a. 8-wire / 3-circuit system with NEMA 5-20R receptacles in 3-3-2 combination~~
 - ~~b. Each 20 amp circuits capable of connecting multiple circuit distribution bars to various positions without the need for electrical contractor installation.~~
 - ~~c. UL certified components~~
 - ~~d. Armored cable whips~~
 - ~~e. Ability to control each circuit independently.~~
 - ~~f. Ability to provide singular power distribution system between multiple console positions~~
 - ~~g. Color coding around the receptacles to differentiate multiple power sources~~

M. Finishes:

- 1. Work surfaces: High pressure laminate, Shadow Zephyr
- 2. Front, Rear, and End panels: High pressure laminate, Atlantis
- 3. Work Surface PVC Edging: Black
- 4. Cable Chains: Black
- 5. Slatrail inserts: High pressure laminate, Wilsonart Black
- 6. Plexiglass panel: Clear plexiglass
- 7. Lift Column Housing: Silver
- 8. Panel PVC Edging: Atlantis PVC
- 9. Internal Frame and Accessories: XP Black Santex and Natural Aluminum.

N. Accessories:

- 1. Environmental Management System:
 - a. Controls: Provide desktop touch controller for environmental management system.
 - b. Task Lighting: Provide two task lights.
 - c. Heater: Provide one compatible forced air heater.
 - d. Fan: Provide two desktop fans.

2.2 INSTALLATION MATERIALS

- A. Manufacturer to provide one set of hand tools required for assembly.

PART 3 - EXECUTION

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3.1 PREPARATION

- A. Sweep and vacuum clean surfaces immediately before installation.

3.2 INSTALLATION

- A. Comply with manufacturer's written instructions for assembling and installing.
- B. Manufacturer to provide installation support and site supervision.

3.3 CLEANING AND PROTECTION

- A. Comply with manufacturer's written instructions for cleaning and protection of products.
- B. Perform the following operations immediately after completing product installation:
 - 1. Remove adhesive and other blemishes from exposed surfaces.
 - 2. Sweep and vacuum surfaces thoroughly.
- C. Protect products from marks, marks, indentations, and other damage from construction operations and placement of equipment and fixtures during remainder of construction period.
 - 1. Cover assembled products until Substantial Completion.

END OF SECTION 125686