



CITY OF HOUSTON

John Whitmire

Mayor



George Bush Intercontinental ~ William P. Hobby ~ Ellington Airport

Jim Szczesniak
Director of Aviation

May 14, 2024

SUBJECT: Addendum No. 3

RE: Invitation to Bid (ITB) Solicitation No. H93-IAHLVR-2024-021, IAH South Lighting Vault Renovation at George Bush Intercontinental Airport (IAH); Project No. 952

To: All Prospective Bidders:

This Addendum is being issued for the following reasons:

I. Extend the Bid Due Date from **May 16, 2024, to May 23, 2024, at 10:30 A.M., CT.**

II. Replace the following document in the Project Manual Div00:

1. Document 00410B-2 through 00410B-7 – Bid Form Part B

III. To Respond to the following questions.

1. **Question:** Bid Item 31, Remove Light Fixtures, is a square footage unit of measure. For accurate pricing, could this be changed to either each count or a lump sum.

Response: Please provide lump sum pricing.

2. **Question:** Please clarify the difference between Bid Item 24 and the second Bid Item 32. 24 is remove conduit and cables, 1 lump sum, while Bid Item 32 is Remove Abandoned Cables, 1 each. For simplicity can these two bid items be combined into one bid item?

Response: Please provide lump sum pricing under Bid Item 24. Note, Bid Item 32B is included in Bid Item 24 as lump sum.

3. **Question:** There appears to be duplicate numbering of Bid Items 27, 28, 32, 92, and 95. Please verify bid item numbering.

Response: Where duplicate numbers are included, add A, B, designation for clarity. The revised Bid Form is attached.

- i. 27A – Remove keyboard.
- ii. 28A – Remove generator and all associated equipment and installations.
- iii. 27B – Underground Tank Cap Pipe: Existing underground diesel tank is to remain. Pipe is to be capped at penetration of the slab.

Council Members: Amy Peck Tarsha Jackson Abbie Kamin Carolyn Evans-Shabazz Fred Flickinger Tiffany D. Thomas Mary Nan Huffman
Mario Castillo Joaquin Martinez Edward Pollard Martha Castex-Tatum Julian Ramirez Willie Davis Twila Carter
Letitia Plummer Sallie Alcorn
Controller: Chris Hollins

May 14, 2024

IAH South Lighting Vault Renovation at George Bush Intercontinental Airport (IAH)

Solicitation No. H93-IAHLVR-2024-021

Project No. 952

- iv. 28B – Remove installation should read remove insulation. (There is existing installation on the walls in the existing generator area. The insulation and roof membrane in Bid Item 29 refers to the roofing insulation).
- v. 32 – See Bid Item 24 in response above.
- vi. 92 – Switch with LED – (Include lighting switches).
- vii. 95 – Card reader (include security system card readers).

4. **Question:** Bid Item 70 is "Ground Rods" 1 lump sum (LS). Please clarify was this bid item intended to be the pay item for all grounding including the wire.

Response: Yes. Refer to specification 260526 Grounding and Bonding for Electrical Systems for technical requirements.

5. **Question:** If Bid Item 70 was not intended to include all the grounding, to avoid issues with quantities please adjust this bid item to have a unit of measure of each not a lump sum.

Response: Lump sum, as indicated in response above.

6. **Question:** Please clarify the intended scope and method of payment for Bid Item 66, label cables, 1 lump sum.

Response: Refer to specification 260553 Identification for Electrical Systems for technical requirements.

7. **Question:** Bid Item 114, Fire Alarm Devices has a quantity of 21, Lump Sum. Please verify quantity or unit.

Response: The fire alarm design is a deferred design by the Contractor's fire alarm subcontractor. Devices are shown on the electrical plans for owners preferred location for devices.

8. **Question:** Sheet SV-EF3.01, General Note E says, "Provide New Fire Alarm Panel with New Connection to Campus Network in Terminals." What is the existing Fire Alarm system the Airport is currently using?

Response: The airport has a Notifier system networked for the IAH campus. Refer to RFI 14 response for additional information.

9. **Question:** Bid Item 114 and 115 reference Specification Division 28461.11. The Specifications given are Division 284621.11. Please confirm which Specification division is correct.

Response: Refer to specification section 284621.11 Addressable Fire Alarm Systems.

10. **Question:** Note 9 on sheet SV-E1.01 states to install 2w2" and 4w1-1/4" Conduits for Generator Accessories Power, Generator Start Signal, Generator Monitoring and Site Lighting Power. Please clarify the cable that is to go into this wire and where/what this conduit run is supposed to connect to since it is not shown on the one line.

May 14, 2024

IAH South Lighting Vault Renovation at George Bush Intercontinental Airport (IAH)

Solicitation No. H93-IAHLVR-2024-021

Project No. 952

Response: Generator Accessories power from the low voltage panel in the building will supply power to generator and generator enclosure such as battery chargers, heaters, lights, and receptacles. Generator start signal will connect ATS-2 to the generator starting controls. Generator monitoring will be from the generator controls to the building management system inside the building. Site lighting will be from the outdoor lighting indicated on the lighting plan to the panels in the building corresponding to the circuits indicated on the lighting plan.

11. **Question:** Bid Item 19 is Replace Fusible Disconnect, 3 each. There is a bid item for demolishing these fusible disconnects and it appears the intention is to replace existing Fusible disconnect A, B and C with breakers MCB-A and MCB-B. Since the 3 each Fusible disconnects are being demolished in Bid Item 19, can Bid Item 76 be changed to install MCB with a quantity of 2 each?

Response: Provide separate line item with next number at end of form for MCBs for MCB-A, MCB-B.

12. **Question:** Response to RFI questions 4 and 5 in regard to fusible disconnects refers the smaller disconnects coming from Panel HVS. This bid item has a quantity of 3 each however there are more than 3 disconnects coming from panel HVS. What bid item are these smaller disconnects supposed to be paid under? If the intent is to pay these under Bid Item 76 then what bid item are the new MCB's supposed to be paid under?

Response:

a. Include all disconnected under Bid Item 76.

b. Previous Response 4 - For Bid Item 76, Replaced Fused Disconnect Switch, please provide existing size to be replaced. SV-E6.01 indicates 3P-60/F60 NEMA 4XSS for ACCU-1 & ACCU-2, 3P-30/F30 for AHU-1,2, 3P-200/F200 NEMA4XSS for West Bridge, 3P-100/F10 NEMA 4XSS for East Bridge and 3P-60/F60 NEMA 4XSS for Gate. The gate is the gate east of the building. The bridges are the two bridges west of the building that cross Will Clayton Blvd to connect the Runway 9-27 taxiways to the taxiways for the passenger terminal area.

c. Previous Response 5 - For Bid Item 76, Replaced Fused Disconnect Switch, please clarify where these tie into on the new one line. SV-E6.01 indicates 3P-60/F60 NEMA 4XSS for ACCU-1 & ACCU-2, 3P-30/F30 for AHU-1,2, 3P-200/F200 NEMA4XSS for West Bridge, 3P-100/F10 NEMA 4XSS for East Bridge and 3P-60/F60 NEMA 4XSS for Gate. The gate is the gate east of the building. The bridges are the two bridges west of the building that cross Will Clayton Blvd to connect the Runway 9-27 taxiways to the taxiways for the passenger terminal area.

13. **Question:** Existing utility service to vault room Panel MPB is being fed by an 800A 3 phase circuit. The new utility service to the new MCB is 1600A. Please provide details for the upsizing of the service feeders to the new MSB panel from center point energy.

Response: New utility service feeder from vault is 1600A bus with bus collector box at wall for connection to CenterPoint service at vault wall.

May 14, 2024
IAH South Lighting Vault Renovation at George Bush Intercontinental Airport (IAH)
Solicitation No. H93-IAHLVR-2024-021
Project No. 952

14. **Question:** Bid Item 117 is Underground Ductbank (8) 8" Conduit 78"x18" 221LF. This does not appear to be on the plans. Please clarify where this (8) 8" Underground Ductbank is.

Response: The feeder from generator to outdoor switchboard MSB-G is underground ductbank with (8) 4". Refer to specification 260543 and Sheet No. SV-E5.01, upper left-hand corner has the Duct Bank Detail.

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 Addenda and to have incorporated them into their Bid.

If further clarification is needed regarding this solicitation, please contact Senior Procurement Specialist, Amanda Joseph via email at amanda.joseph@houstontx.gov.

Sincerely,

DocuSigned by:



2B88A4B556CF4DC...

Cathy Vander Plaats
Aviation Procurement Officer
Houston Airport System

cc: File, ITB Solicitation No. H93-IAHLVR-2024-021

Attachments:

Document 00410B-2 through 00410B-7 – Bid Form Part B

B. BASE UNIT PRICE TABLE:

Item No.	Spec Ref.	Base Unit Short Title	Unit of Measure	Estimated Quantity	Unit Price (this column controls)	Total in figures
1	Div 00-01	General Requirements	LS	1	____ (1)	
2	01913	General Commissioning Requirements	LS	1	____ (1)	
3	Div 02	Demo Concrete Curb	LF	208	____ (1)	
4	Div 02	Demo Concrete Column	EA	1	____ (1)	
5	Div 02	Demo Concrete Wall	SF	576	____ (1)	
6	024119	Remove 30 kVA Transformer	EA	1	____ (1)	
7	024119	Remove Louver 3x2	EA	4	____ (1)	
8	024119	Remove Louver 3x2.5	EA	4	____ (1)	
9	024119	Remove Louver 5x4.5	EA	1	____ (1)	
10	024119	Remove Louver 4x2.5	EA	1	____ (1)	
11	024119	Remove Double Door & Frame	EA	2	____ (1)	
12	024119	Remove Single Door & Frame	EA	1	____ (1)	
13	024119	Remove Air Intake Hoods	EA	3	____ (1)	
14	Div 02	Demo Concrete Wall and prepare for new Single Door Opening	EA	2	____ (1)	
15	Div 02	Remove 25, 9 kVA Transformer	EA	2	____ (1)	
16	Div 02	Remove Electric Panel	EA	6	____ (1)	
17	Div 02	Remove Surge Protection Device	EA	3	____ (1)	
18	Div 02	Remove 3-Way ATS	EA	1	____ (1)	
19	Div 02	Remove Fused Disconnect	EA	3	____ (1)	

20	Div 02	Remove MPB	EA	1	____ (1)	
21	Div 02	Remove PLC Terminal	EA	1	____ (1)	
22	Div 02	Remove Genset Shelving	EA	1	____ (1)	
23	Div 02	Remove Disconnect – AHU-1,2	EA	2	____ (1)	
24	Div 02	Remove Conduit and Cables	LS	1	____ (1)	
25	Div 02	Remove Antenna	EA	1	____ (1)	
26	Div 02	Remove Manual Controls	EA	2	____ (1)	
27A	Div 02	Remove Cut Outs Cabinet	EA	1	____ (1)	
27B	Div 02	Remove Keyboard	EA	1	____ (1)	
28A	Div 02	Remove Generator and all Associated Equipment and Installations	EA	1	____ (1)	
28B	Div 02	Underground Tank Cap Pipe. <u>Existing underground tank is to remain. Pipe is to be capped at penetration of slab</u>	EA	2	____ (1)	
29	Div 02	Remove Insulation	SF	576	____ (1)	
30	024119	Remove Insulation and Roof Membrane	SF	2,500	____ (1)	
31	Div 02	Remove Light Fixtures	LS	2,000	____ (1)	
32A	Div 02	Remove Old Sump Pump	EA	2	____ (1)	
32B	Div 02	Remove abandoned cables	LS	1	____ (1)	
33	Div 02	Remove Concrete Pavement	LS	1	____ (1)	
34	Div 02	Remove Sidewalk	EA	1	____ (1)	
35	Div 02	Remove Expansion Joints Sealant and Backer Rod	LS	1	____ (1)	
36	Div 02	Remove Scuppers, Downspouts and Splash Blocks and Parapet Caps	LS	1	____ (1)	
37	Div 03	Pavement Sawcut	EA	1	____ (1)	
38	Div 03	Slab on Grade Reinforcing	EA	1	____ (1)	
39	Div 03	Generator and Switchgear Pad Reinforcing	EA	1	____ (1)	
40	Div 03	Pilasters Reinforcing				
41	031000 032000 033000 033900 042200	Concrete Pilaster Assuming 20'H, 36"x36"	EA	14	____ (1)	
42	031000 032000 033000 033900	Concrete Pad	CY	264	____ (1)	

43	031000 032000 033000 033900	High Density Foam	LS	1	____ ⁽¹⁾	
44	031000 032000 033000 033900	Generator & Switchgear Pad	SF	1,255	____ ⁽¹⁾	
45	031000 032000 033000 033900	Concrete Stoops	SF	135	____ ⁽¹⁾	
46	031000 032000 033000 033900	Infill Openings with concrete where louvers were removed	SF	50	____ ⁽¹⁾	
47	031000 032000 033000 033900	Light Weight Concrete infill where Skylights were removed	SF	36	____ ⁽¹⁾	
48	042200	CMU Enclosure Wall, 20'H.	SF	2,234	____ ⁽¹⁾	
49	042200	CMU for Pilaster Finishing 20'H, 36"x36"	SF	2,166	____ ⁽¹⁾	
50		Metal Fabrication	LF	171		
51	031000 032000 033000 033900 042200	Sealing and Caulking, Inc., Joints Rework	LF	3,199	____ ⁽¹⁾	
52	079200	Repair Water Infiltration at Basement Level	LS	1	____ ⁽¹⁾	
53	Div 02	Remove Concrete Pavement	SF	2,416	____ ⁽¹⁾	
54	075416 076200 077100	New Build Up Insulation and Roof Membrane	SF	2,500	____ ⁽¹⁾	
55	075416 076200 077100	New Flashing and Roof Perimeter	LF	270	____ ⁽¹⁾	
56	075416 076200 077100	New Downspouts	EA	6	____ ⁽¹⁾	
57	081113 087100	New Double Door and Frame Galv/Steel	EA	1	____ ⁽¹⁾	
58	081113 087100	New Single Door and Frame Galv/Steel	EA	3	____ ⁽¹⁾	
59	081113 087100	Double Door Transom	SF	24	____ ⁽¹⁾	
60	081113 087100	Hardware Set 1	EA	1	____ ⁽¹⁾	
61	081113 087100	Hardware Set 2	EA	3	____ ⁽¹⁾	
62	081113 087100	Hardware Set 3	EA	1	____ ⁽¹⁾	
63	079200	Restore Finishing in Basement After Dry IN	LS	1	____ ⁽¹⁾	

64	099123	Interior Painting and Cleaning- lower level and main floor walls	SF	3,800	____ (1)	
64.1	099113	Exterior Painting and Cleaning	SF	4,250		
65	260553	Permanent laminated engraved placards	EA	4	____ (1)	
66	260553	Label Cables	LS	1	____ (1)	
67	221429	Sump Pump for Basement	EA	2	____ (1)	
68	221429	Sump Pump piping	LS	1	____ (1)	
69	Drawings 260010 260011	Relocate Equipment	EA	4	____ (1)	
70	260526	Ground Rods	LS	1	____ (1)	
71	260913.10	Meter Enclosure	EA	1	____ (1)	
72	Div 26	New ALCMS and upgrades to 3 vaults, air traffic control tower and airfield service center ALCMS	LS	1	____ (1)	
73	260503 2660513 260519 260526 260529 260533 260536	Wiring and Distribution	LS	1	____ (1)	
74	262213	Transformer 37.5kVA 1P	EA	1	____ (1)	
75	262213	Transformer 45 kVA. 3P	EA	1	____ (1)	
76	262816	Replaced Fused Disconnect Switch	EA	3	____ (1)	
77	Div 26	Replace Runway-Light-Monitor & Rlim Sensor Interface	EA	1	____ (1)	
78	262416	New Panel 240V/120V; 1P/3W 200A-42 Breakers	EA	1	____ (1)	
79	262416	New Panel 208V/120V; 3P/4W 150A-42 Breaker	EA	1	____ (1)	
80A	262413	Outdoor switchgear SS NEMA 3R with 4 breaker 1600A/3 LSIG	EA	1	____ (1)	
80B	262413	Switchboard MSB 1600A, 480/277; 3P; 4W	EA	1	____ (1)	
81	260913	Electrical Power Monitoring and Control	LS	1	____ (1)	
82	262416	Panel HVS 600A; 480/277; 3P; 4W	EA	1	____ (1)	
83	262816	New Disconnects for AHU-1,2	EA	2	____ (1)	
84	264313	Surge Protection Device	EA	5	____ (1)	
85	260526	4"x24" Insulated Copper Bus Main Ground Bar on Wall	EA	1	____ (1)	

86	260526	Ground System Rework	LS	1	____ (1)	
87	Div 26	Constant Current Regulator	EA	20	____ (1)	
88	Div 26	Switchgear for Constant Current Regulators	EA	2	____ (1)	
89	263213	New Generator, 480v/277V; 3P; 4W+G; 1250 kW w/3,000 Gallon Belly Tank	EA	1	____ (1)	
90	263213	Camlock Connection Unit for Generator NEMA 4X-SS	EA	2	____ (1)	
91	262726	Receptacles	EA	16		
92A	262726	WR, GFCI Receptacles	EA	7		
92B	262726	Special purpose receptacles	EA	5		
93	263623	Automatic Transfer Switch 1600A/4P Isolation Bypass Type	EA	2	____ (1)	
94	264113	Lightning Protection	LS	1	____ (1)	
95A	265119	Light Fixture A	EA	16	____ (1)	
95B	265119	Light Fixture AE	EA	14	____ (1)	
96	265619	Exterior Wall Light Fixture Type B	EA	8	____ (1)	
97	265619	Exterior Wall Light Fixture Type C1	EA	3	____ (1)	
98	265619	Exterior Wall Light Fixture Type C2	EA	9	____ (1)	
99	265619	Exterior Wall Light Fixture Type C3	EA	4	____ (1)	
100	265619	Exterior Wall Light Fixture Type C4	EA	6	____ (1)	
101	265119	Indicated Light (Yellow Flashing Beacon)	EA	1	____ (1)	
102	265213	Exit Light	EA	4	____ (1)	
103	265119	Timeclock with relays	EA	1	____ (1)	
104	265119	Switch with LED	EA	9	____ (1)	
105	Div 26	Testing, Pre-commissioning, Commissioning	LS	1		
106	260553	Identification for Electrical Systems	LS	1		
107	260573	Short Circuit Studies, Coordination Studies, Arc-Flash Hazard Analysis and Labeling	LS	1		
108	270526 270528 270543 271500	Data & Communication Rework	LS	1	____ (1)	
109	270526 270528 270543 271500	Replace Wire Cage	EA	1	____ (1)	
110	281300	Card Reader	EA	3	____ (1)	

111	281300	Mag Locks	EA	7	____ (1)	
112	281300	Push Button	EA	5	____ (1)	
113	282300	Security Cameras	EA	8	____ (1)	
114	<u>284621.11</u>	Fire Alarm Devices	LS	21	____ (1)	
115	<u>284621.11</u>	Fire Alarm Control Panel and IAH Network Connection	LS	1	____ (1)	
116	Div00-01	Termite Control	LS	1	____ (1)	
117	260543	Underground Ductbank (8) 8" Conduit 78"x18"	LF	221	____ (1)	
118	260543	Underground Ductbank (2) 2" & 4 1-1/4" Conduits	LF	43	____ (1)	
119	00340	Procure Environmental Abatement subcontractor and abate prior to construction for remediation noted in HAS provided SOW and report	LS	1	____ (1)	