

PART 1 - GENERAL

1.1 PROJECT

- A. Brooks Stadium Renovation and Expansion – Phase 2
Coastal Carolina University
Conway, SC

1.2 ARCHITECT

- A. Stubbs Muldrow Herin architects, Inc.(SMHa)
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1.3 RELATED DOCUMENTS

- A. This Addendum consists of 9 pages, 70 drawings, and 6 added spec sections (for reference)
- B. To Prime Bidders of Record:

- 1.4 This addendum forms a part of the Contract Documents and modifies the original Project Manual and Drawings dated October 11, 2017. Acknowledge receipt of this addendum on the Bid Form. Failure to do so may cause a bid to be rejected as unresponsive as outlined in the Instructions to Bidders

PART 2 - ADDENDUM ITEMS

2.1 GENERAL REQUIREMENTS:

- A. The following changes/clarifications shall be made to the Project Manual:
 - 1. Section 011000 – SUMMARY
 - a. Add Paragraph “1.12 EXISTING DOCUMENTS” and subparagraph “A. The owner shall make available to the successful bidder construction documents for the existing facility for use in planning and coordinating the work”.
 - 2. Section 12100 – ALLOWANCES
 - a. Delete Paragraph 1.6.B.

- b. Paragraph 3.3.A, Add the following sentence: “The overhead and profit of GC is NOT included in this sum.”
- c. Paragraph 3.3.B, Add the clarification “This allowance includes costs for receiving and handling at the project site, labor, and installation.”

2.2 CIVIL:

A. The following changes/clarifications shall be made to the Project Manual:

1. N/A

B. The following changes/clarifications shall be made to the drawings:

- 1. Replace the following sheets with attached revised sheets, dated 11.01.17. The revisions incorporate changes to gas line routing:
 - a. C-1.1 Drawing Legend and Sheet Index
 - b. C-8.0 Overall Sewer and Gas Plan
 - c. C-8.1 Sewer & Gas Plan I
 - d. C-8.2 Sewer & Gas Plan II
 - e. C-8.4 Sewer & Gas Plan IV
 - f. C-8.5 Sewer & Gas Profiles
- 2. Sheet C-2.1 Demolition Plan I: Add the following note: "Remove the two Oak Trees at the Southwest Corner of the site along existing fence near relocated light pole. Grind stumps but do not remove root balls. Revised Civil demolition drawing showing accurate tree locations shall be issued as part of conformed set to successful bidder”.
- 3. Sheet C-5.0 Overall Drainage Plan & Charts: Replace with attached revised sheet dated 11.01.17. Structure rim elevations were updated to match Grading Plan sheets C-6.0 to C-6.4. Pipe lengths were updated to match Drainage Profiles sheet C-5.4. This information is found in the pipe and structure charts.
- 4. Sheet C-5.4 Drainage Profiles: Replace with attached revised sheet dated 11.01.17. Label added to Structure 19 detailing stationing, rim elevation and connected pipe invert elevations. This can be seen on Pipe Profile 16-20.
- 5. Sheet C-9.3 Construction Details II:
 - a. Replace with attached revised sheet dated 11.01.17. Generator pad detail added.
 - b. Add Following General Notes to Sheet:
 - 1) “NDS Pro Series Channel Drain is an approved Substitute for the specified 12” Trench Drain. Trench Drains shall include an ADA pedestrian grate.”
 - 2) “NDS EZ Roll Grass Pavers is an approved substitute for the specified Grass Pave.”

2.3 ARCHITECTURAL:

A. The following changes/clarifications shall be made to the Project Manual:

1. Section 033000 – CAST-IN-PLACE CONCRETE, Paragraph 2.7.A.1, Add Barrier Bac VB350 to list of approved products.
2. Section 042133 BRICK MASONRY, Paragraph 1.3.C, add “3. Mortar Color” under samples for verification to be submitted
3. Section 071800 – TRAFFIC COATINGS
 - a. Paragraph 2.1.B, add BASF to list of acceptable manufacturers.
 - b. Paragraph 2.3, add subparagraph: “D. Color: To be selected from manufacturer’s standard range”
4. Section 071351 – SHEET WATERPROOFING, Paragraph 2.1.B, add Soprema to list of acceptable manufacturers.
5. Section 072726 – FLUID-APPLIED MEMBRANE AIR-BARRIERS, Paragraph 2.1.A.1.a, add the following to the list of acceptable manufacturers:
 - a. TK Products
 - b. BASF
6. Section 074113 - METAL ROOF PANELS, Paragraph 2.3.B.1, add Metal Roofing Systems, Inc. to list of acceptable manufacturers.
7. Section 074213 - METAL WALL PANELS, Paragraph 2.1.B.1, add Metal Roofing Systems, Inc. to list of acceptable manufacturers.
8. Section 074213.53 - METAL SOFFIT PANELS, Paragraph 2.2.B.1, add Metal Roofing Systems, Inc. to list of acceptable manufacturers.
9. Section 075419 – PVC ROOFING, Paragraph 2.3.A.1, add Soprema to list of acceptable manufacturers..
10. Section 077100 – ROOF SPECIALTIES, Paragraph 2.2.A.1, add Metal Roofing Systems, Inc. to list of acceptable manufacturers.
11. Section 079500 – EXPANSION CONTROL, Paragraphs 2.3.A and 2.4.A, add Watson Bowman Acme to the list of acceptable manufacturers.
12. Section 105113 – METAL LOCKERS, delete section in its entirety.

B. The following changes/clarifications shall be made to the drawings:

1. Sheet A103, Detail A1, Correct unreferenced Elevation Tag at exterior of Men W313 (b/w column line 11 and 12.3. This Tag should reference A4/A203.
2. Sheet A203, Detail A1, Add Note: “Accent stripes at top and bottom shall extend the entire length of the ACM panel and return around corners”.
3. Sheet A208, Details A2 and A5, at all references to expanded steel mesh, add note “to be painted”.
4. Sheet A402 Storefront and Window Elevations:
 - a. Details H5 and H9, Add the following note: “At all AS-3 and AS-4 windows, provide motorized roller shades to cover from top of window to floor. See Spec section 122413”.
 - b. Details A5 and E5, Add the following note: “At all AS-5 windows, provide motorized roller shades to cover from top of window to 3’-6” a.f.f.. See Spec section 122413”.
5. Sheet I701 Finish Schedule, 096813 Tile Carpeting: Add the following note: “The product indicated is for information only. Provide carpet as selected by Architect under Allowance per Specification Sections 012100 - Allowances and 096813 - Tile Carpeting.”

2.4 STRUCTURAL

A. Bidders’ Questions and Responses

1. Q: Specification section 133416 1.07 A. 12 indicates L/360 design criteria for live load deflection. Grandstand industry standard in ICC 300 code is L/200. Is L/360 required?
 A: L/360 is required.
2. Q: Verify the structural steel rakers noted on drawings meet the deflection criteria required by specification section 133416.
 A: Rakers are appropriately sized based on an anticipated 6 ft +/- on center spacing of stringers.
3. Q: Sections on sheets S191 to S194 indicate raker sizes of varying depth. Is it acceptable that the delegated engineered grandstand steel stringers are deeper? A deeper stringer section would be more cost effective to address deflection criteria and the spans shown but will require additional coordination with steel fabricator and adjustment to the steel elevations for the supporting beams.
 A: It is acceptable to use deeper stringers as long as it is coordinated with surrounding construction and does not compromise the constructability or function of the facility. Particular care shall be given to ensuring deeper stringers do not conflict with the construction of or the future maintenance of the upper concourse toilet and concession building roofs which are located directly below and in close proximity to underside of stringers.

4. Q: Structural sheets 171.1 to 171.3 bullet point note 8, indicate that the tread and riser brackets on the top of the structural steel rakers are to be supplied by the structural steel fabricator. Due to tolerances and design requirements for aluminum extrusion connections – the tread bracket should be supplied by the grandstand fabricator as a field applied bolt-on tread and riser frame with a bolt hole pattern on the rakers supplied to structural steel fabricator for shop punching structural steel. Please verify this is acceptable.

A: The proposed alternate division of work is acceptable provided the use of field bolted connections between the tread brackets and rakers. The general contractor shall be responsible for final coordination of division of work to ensure a turnkey product is provided.

5. Q: No BIM requirements were noted on the drawings or specification. Will the project team require the grandstand manufacturer to coordinate with the structural steel fabricator in BIM?

A: All work shall be fully coordinated between various trades and subcontractors. The means and methods of coordination shall be established by the General contractor.

6. Q: Structural sheets 171.1 to 171.3 bullet point note 12, indicate that the Protected Zone of the BFP Moment Connections need to be coordinated. Please provide a dimension from centerline of column at BFP moment frame beams that clearly indicates the length of the protected zones so bidding grandstand suppliers can understand the design intent for the noted stringer connections.

A: The dimension of the protected zone is dependent upon the final design of the “BFP” connections which will be designed by the structural steel fabricator’s engineer. See AISC 341-10 Figure 7.1 for general requirements.

2.5 ELECTRICAL

- A. The following changes/clarifications shall be made to the Project Manual:

1. The following four sections were added for reference only;
 - a. 270500 Common Work Results for Communications
 - b. 271300 Communications Backbone Cabling
 - c. 271301 Equipment Rack,
 - d. 271500 Communication Horizontal Cabling
2. Replace Section 263600 Transfer Switches in its entirety with the specification included as part of this addenda.
3. Replace section 263200 Packaged Generator Assemblies in its entirety with the specification included as part of this addenda.

- B. The following changes/clarifications shall be made to the drawings:

1. Sheet E001, E002, E004, E007, E008, E051, E052, E053, E101-1, E101-2, E101-3, E101-4, E101-5, E101-6, E102-1, E102-2, E102-3, E103-1, E103-2, E103-3, E103-4, E301-1,

E301-2, E301-3, E301-4, E301-5, E302-2, E302-3, E303-1, E303-2, E303-3, E401, E402, E403 – Low voltage design, that will be provided by others, has been included in drawings for reference and coordination purposes. Additional conduits, clarified conduit routings, additional receptacles for I.T. equipment, mechanical equipment for I.T. rooms have been included.

2. E002 – “Branch Circuit Wiring” and “Disconnect/Starter” updated for Electric heater EH-41 and Tankless Water Heaters WH-N105 & WH-N106.
3. E003 – Equal manufactures for light fixtures were added to multiple light fixture types.
4. E004 – Detail #1 Partial Fire Alarm Riser was revised.
5. E005 – Detail #4 Public Space Lighting and Exhaust Fan Control Scheme was revised to include conduit for all wiring.
6. E006 – Detail #1 Machine Room-less Elevator Single Line Diagram was revised to include fused disconnect. Detail #5 Generator Control Detail was revised to indicate location of E-stop and Generator Annunciator Panel and Automatic Transfer Switches were clarified to be 4 pole. Detail #6 Shunt Trip at Service Entrance was revised to indicate code required signage for multiple services.
7. E010 – Detail #2 One-Line Diagram was revised to call out code required signage for multiple services. Feeders for XFMR T1W & T3W, Switchboards 1LDPW1 & 1LDPW2, and Fire Pump Controller. Generator was changed from diesel to natural gas.
8. E011 – Detail #1 Electrical Existing One-Line Diagram was revised to show non-fused disconnect for Panel 1L1E.
9. E050 – Frame sizes for multiple breakers in Switchboard MDPW were revised from 200 Amp to 100 Amp.
10. E100 – Keynotes were added to address code required signage for multiple services.
11. E100A – Keynote #1 was revised to address pole for flag pole lights.
12. E100, E101-1, E201-1, E301-1 – Generator changed from diesel to 275kW natural gas.
13. E102-2, E102-3, E103-2, & E103-3 – 120 volt circuit for door hold open devices has been deleted. Door hold open device are connected to fire alarm control panel and local area smoke detectors.
14. E301-3 – Fire alarm speaker/strobes removed from Stair 4 S104 and keynote added to address lockable enclosure for Mass Notification Local Operating Console.
15. E302-2 & E303-3 – Two way communication indicated at future elevator shall be rough-in only.

C. Bidders’ Questions and Responses

1. Q: Drawings show TV outlets and wi-fi access points wall and ceiling mounted. Need conduit size and where do we install homerun to? Are we to include in any cabling? If so, need additional information. Maybe an allowance would be better to include at this stage.

A: TV outlets, wi-fi access points, and cabling provided by others. Unless notes otherwise provide 3/4" conduit from device box to data rack's IT closet for wi-fi devices. Conduit size for TV outlets is addressed in a detail on E007. General notes have been added to drawings to help define conduit routing where necessary.
2. Q: Drawings show cameras. Need conduit size and where do we install conduits to? If were to include wiring and cameras complete, we need spec information. Maybe an allowance would be better to include at this stage.

A: Camera and cabling provided by others. Unless noted otherwise, provide 3/4" C from camera to data rack's IT closet. General notes and keynotes have been added to drawings to help define conduit routing where necessary.
3. Q: When the two (2) stadium lights are relocated, is CCU going to re-aim lights? If not, I assume photometric will be needed to be done in order to get fixtures aimed properly. Carrying an allowance to cover this would be better to include at this stage.

A: MUSCO is covering the work of re-aiming the fixtures under a separate contract with the owner.
4. Q: Structure cabling / fiber. Are we to include any cabling for this system in our quote or empty raceways only? If were to include, we need additional information to price. Maybe an allowance would be better to include at this stage.

A: Provide raceways only. Cabling provided by others.
5. Q: Drawing E004 detail 1 shows IPC 8000, audio booster amp, and nac panel. I do not find the locations shown on the drawings.

A: IPC 8000, audio booster amp, and nac panel shall be located in IT W308. Detail has been revised.
6. Q: Electrical plans show two different generator sizes 225kw & 250kw, which is correct?

A: The generator has been revised to a 275kw natural gas generator.
7. Q: Civil plan refers me to the MEP drawings for the generator pad info, no more shown there than Civil.

A: Generator pad is being provided as part of the Civil drawing revisions.
8. Q: Reference sheets C-4.3 and E100A – Site lighting shown (for alternate area) on these two drawings doesn't agree/isn't coordinated. Which drawing is correct?

A: Lighting layout on E100A has been revised to match C-4.3.

2.6 MECHANICAL

- A. The following changes/clarifications shall be made to the Project Manual:
1. N/A
- B. The following changes/clarifications shall be made to the drawings:
1. Sheet M003 – The Club Level AH-1, 2 Schematic Diagram (Detail 7) has been updated to better illustrate factory and field installed control wiring.
 2. Sheet M004 –
 - a. Note 4 on the Packaged Rooftop DX with Gas Heat Schedule has been updated to note controls shall be provided by controls contractor.
 - b. Note 2 on the Rooftop Unit Schedule has been updated to note controls shall be provided by controls contractor.
 - c. AH-8 / CU-8 have been added to the Ductless Mini-Split System (Cooling only) Schedule.
 - d. Note 9 on the Wall Mounted Packaged Heat Pump Schedule has been updated to note controls shall be provided by controls contractor.
 3. Sheet M103-2 – The floorplan for HVAC Plan East Level 3 was added. This plan shows the added AH-8 and the associated refrigerant and condensate lines. Keynotes 7 and 8 were added.
 4. Sheet M104-1 – The floorplans for East Level 4 and 5 were added. These plans show the added CU-8 and associated refrigerant line routing. Keynote 6 was added.

2.7 PLUMBING

- A. The following changes/clarifications shall be made to the Project Manual:
1. N/A
- B. The following changes/clarifications shall be made to the drawings:
1. Sheet P001
 - a. Plumbing Abbreviations have been updated.
 - b. Gas Demand Schedule has been updated.
 2. Sheet P004 – Gas Fired Appliance Connection Detail has been revised.
 3. Sheet P101-1 – Provisions for the Natural Gas Generator have been added.
 4. Sheets P101-2, P102-2, P103-1, P103-2, and P103-3 – Locations of water hammer arresters have been added.
 5. Sheets P101-3 and P101-5 – Natural gas piping has been revised.
 6. Sheet P103-1 – Clarifications have been made for routing of piping.

7. Sheets P111-3 and P111-4 – Routing of drainage piping has been revised.

2.8 FIRE PROTECTION

- A. The following changes/clarifications shall be made to the Project Manual:

1. N/A

- B. The following changes/clarifications shall be made to the drawings:

1. Sheet FP103-2 – The floorplan for Fire Protection Plan East Level 3 was added. This plan shows modifications to and verifications of coverage of the existing sprinkler system.

END OF ADDENDUM NO. 2