DATE: October 7, 2016

PROJECT TITLE: Marine Research Facility – Building Package

PROJECT NUMBER: 413.B

OWNER: Mississippi State Port Authority

ARCHITECT OF RECORD: Eley Guild Hardy Architects PA

TO: Prospective Bidders

This Addendum forms a part of the Contract Documents and modifies the September 19, 2016 Issued for Bid documents with amendments and additions noted below.

Acknowledge receipt of this Addendum in the space provided in the Bid Form. Failure to do so may disqualify the Bidder.

This Addendum consists of 5 pages and 15 pages of attachments as follows:

SPECIFICATION CHANGES:

1. Section 00 41 43 Bid Form: Delete the Section 00 41 43 Bid Form in its entirety and replace with the attached Section 00 41 43 (6 pages).
   a. Pay Item 31 32 00.01 Geogrid Layer was mislabeled on the original Bid Form.
   b. Pay Items 03 30 00.01 and 03 30 00.02 should include 03 05 10 Concrete Moisture Reduction Admixture

2. Section 07 42 00 – Composite Building Panels: Delete Section in its entirety and replace with the attached “Section 07 42 00R – Composite Building Panels” (5 pages).

3. Section 08 41 13 – Aluminum Framed Entrances and Storefronts:
   a. 1.3.A: add the following paragraph: “4. Letter from entrance door manufacturer stating all hardware and components provided meets assembly testing for large and small missile impact.”
   b. 2.4.G.2.a: add sentence at end of paragraph: “Provide Electrically Modified where
indicated to receive access control. Equal to Pemko “CFMXXHD1 SERXX”.

c. 2.4.G.2.c.(1): delete paragraph in its entirety and replace with the following: “Single doors (concealed vertical rod): Sargent AD8604Series or Von Duprin HH9847 Series. Provide Electric Latch Retraction (ELR) where indicated to receive access control.”

d. 2.4.G.2.i: add sentence at end of paragraph: “Coordinate with this Section for all access control components (not specified herein) to ensure a fully functional, impact assembly tested, access controlled opening.”

e. 2.4.G.2: add the following paragraph: “j. Manufacturer to submit letter stating all hardware provided meets assembly testing for large and small missile impact testing.”

4. Section 08 71 00 – Door Hardware:

a. 3.8 Hardware Schedule, Set 1:
   i. Delete the following components from the Set: “Continuous Hinge, Exit Device, Pull, Concealed Closer, and Threshold”. NOTE: these components are now specified in Division 8 Section “Aluminum Entrances and Storefronts”.
   ii. Add the following note to the end of the Set: “Coordinate with all hardware included in Division 8 Section “Aluminum Framed Entrances and Storefronts” to ensure a fully functional, impact assembly tested, access controlled opening.”

b. 3.8 Hardware Schedule, Set 2:
   i. Delete the following components from the Set: “Continuous Hinge, Exit Device, Pull, Concealed Closer, and Threshold”. NOTE: these components are now specified in Division 8 Section “Aluminum Entrances and Storefronts”.
   ii. Add the following note to the end of the Set: “Coordinate with all hardware included in Division 8 Section “Aluminum Framed Entrances and Storefronts” to ensure a fully functional, impact assembly tested, access controlled opening.”

5. Section 09 54 00 - Wood Panel Ceilings: Under PART 2 – PRODUCTS, 2.1 MANUFACTURERS, add Norton Industries Inc. as an approved manufacturer.

6. Section 11 60 00 – Laboratory Fume Hoods: 2.1.A: add the following as an equal manufacturer: “B. BMC Hoods is an equal manufacturer”

7. Section 12 35 55 – Laboratory Casework: 2.01.B: add the following as an equal manufacturer: “4. CiF Lab Solutions”.

8. Section 26 41 13 – Lightning Protection for Structures:

   a. Paragraph 2.3.B – Strike (Air) Terminals: Change “Copper” to “Stainless Steel”.

   b. Paragraph 2.3.E – Delete in its entirety and add in its place:

   “2.3.E Conductors:
1. Roof Conductors: Smooth Weave Aluminum  
2. Downlead Conductors: Smooth Weave Copper  
3. Secondary Conductors: Smooth Weave Copper  
4. Bonding Conductors: Smooth Weave Copper”

c. Delete Paragraph 3.2.J in its entirety.

**DRAWING CHANGES:**

1. Sheet C2 – Existing Conditions (1 page/sheet):
   a. The existing sanitary sewer line from SM3 to SM2 was revised to reflect a change made to the Early Start Foundation Package.

2. Sheet C5 - Site Layout (1 page/sheet):
   a. Notes at the new concrete sidewalk along Highway 90 called out the width to be 5’ and 9’ from the face of curb on Highway 90. The correct dimensions are 7’ wide and 8’ from the face of curb.

3. Sheet C6 – Site Utility and Drainage Plan (1 page/sheet):
   a. The existing sanitary sewer line from SM3 to SM2 was revised to reflect a change made to the Early Start Foundation Package.

4. Sheet A002-R – Site Plan New (1 page/sheet):
   a. Changes were made where the new 7’ wide sidewalk connects to the existing curb cut at the corner of 30th Avenue. The new sidewalk should taper down to approximately 5’ with a new ADA ramp at the existing curb cut.
   b. Changes were made to the parking lot light pole layout to match the location shown on Sheet E101 – Electrical Site Plan.

5. Sheet E110 - Ground Floor Lighting Plan:
   a. Add the following to Specific Note No.6: “Power Packs shall be Acuity Controls NPP16-D. See Detail 2/E305 for additional information.”
   b. The Power Pack for the 4 Luminaires “M” associated with Specific Note No. 2 shall be changed from “NP ER” to “NPDER”. Refer to the Electrical Legend for Symbol Description “Emergency Operation Power Pack w/Dimming” where the Part No. for this item is listed (Acuity NPP16-D-R).

6. Sheet E111 - Ground Floor Power Plan:
a. Apply Specific Note No. 2 on Sheet E111 to all weatherproof receptacles shown on Sheet E111.

7. Sheet E113 - First Floor Power Plan:
   a. Clarification: The duplex floor receptacle symbol shown under the desks in Classroom #1 and #2 shall be the same symbol shown in the Electrical Legend described as a “Duplex Floor Receptacle”.

8. Sheet E114 – First Floor Mechanical Equipment Electrical Plan:
   a. Clarification: VFD’s shown at Air Handler Units AHU-1 and AHU-2 shall be furnished, installed, programmed and tested by the Mechanical Contractor. VFD’s shall be in compliance with the requirements of Section 26 29 23 of the Specifications and compatible with the HVAC operation and equipment. Refer to Mechanical Drawings for statements regarding VFD’s to be furnished with mechanical equipment.

9. Sheet E300 – Panelboard Schedules:
   a. Add a 70A/3P circuit breaker to Panel MDP (make circuit MDP-16) for Transformer TP2 (Panel P2). Primary feeder shall be 3-4, 1-8G.

10. Sheet E302- Power Riser Diagram:
    a. On the Power Riser Diagram change the routing of primary feeder of transformer TP2 from Panel DP1 to Panel MDP.
    b. On the Power Riser Diagram change feeder from Panel DP1 to Transformer TP1 from “3-8, 1-10G in 1”C” to “3-4, 1-8G in 1 ¼” C”. Change feeder from Transformer TP1 to Panel P1 from “4-2, 1-6G in 1 ½” C” to “4-1/0, 2-6G in 2” C”.

11. Sheet E302 – Dry Type Transformer Schedule:
    a. Change KVA rating of Transformer TP1 from “30 kVA” to “45 kVA”. Primary and Secondary feeders shall as described in Addendum Item 6.b above.

12. Sheet E304 – Luminaire Schedule:
    a. Add “Valen Lightto the approved manufacturer’s for Luminaires “M” and “Me”.
    b. Add “Eclipse Lighting” to the approved manufacturer’s for Luminaires “P1”, “P1e”, “P2”, “P2e”.
    c. Add “Focal Point” to the approved manufacturer’s for Luminaires “H1”, “H2”, “H3”, “H3e”, “H4”, “H4e”. Coordinate compatibility with ceiling system.
13. Sheet T101 – Technology Site Plan and Sheet T201 – Technology Details, Enlarged Plans and Diagrams:
   a. RFI: Can we get a desired size for these pull boxes UGPB1 & UGPB2?
   b. RFI Response: Minimum size for underground pull boxes is 24"W x 18"D x 13"H. Cover shall read “COMMUNICATIONS”.

14. Sheet E113 – First Floor Power Plan, Sheet T001 – Technology Symbols and Abbreviations and T111 – Technology Plan First Floor:
   a. RFI: Specific Note 14 does this match what is called for on Sheet T001 & T111? Symbols do not match on Sheet E113 and Sheet T111, can we get clarification?
   b. RFI Response: Contractor is to install floorbox as specified on sheet E113. Contractor shall install conduit and cabling as specified on sheet T111. AV cabling shall be installed by wner.

15. Sheet T111 – Technology Plan First Floor and Sheet E113 – First Floor Power Plan:
   a. RFI: Lounge 208 – shows a different wall pocket that than the other wall pockets on this sheet. Sheet E113 shows all of the wall pockets to be the same. Which is correct?
   b. RFI Response: On sheet T111, the AV outlet is not shown on the wallbox in the Lounge because the Lounge does not require AV cabling. All wallboxes installed shall be the exact same piece of equipment. Symbology shown at each wallbox location is to let the contractor know what is being installed in each specific wallbox location.

16. Sheet T111 – Technology Plan First Floor:
   a. RFI: Notes 2 & 5 – note 2 calls out for one pullbox at antenna rack and note 5 calls out for two pullboxes, which is correct?
   b. RFI Response: Contractor shall install (2) pullboxes as shown on sheet A504 Detail 2.

END OF DRAWING AND SPECIFICATION CHANGES FOR ADDENDUM NO. ONE

END OF DOCUMENTS
SECTION 00 41 43

BID FORM – ADDENDUM #1

(SINGLE-PRIME CONTRACT)

Proposal of ________________________________ (hereinafter called "Bidder"), doing business as a ____________________, (insert "a corporation," "a partnership," or "an individual" applicable; if a corporation, indicate state of incorporation) to the Mississippi State Port Authority ("hereinafter called "Port Authority" or "Authority"), an agency existing under the laws of the State of Mississippi.

In compliance with your Advertisement for Bids, Bidder hereby proposes to perform all Work for the Work of Improvement known as:

"Marine Research Facility – Project No. 413.B"

and all appurtenant Work and materials required to complete the Work, in strict accordance with the Contract Documents, within the time set forth therein, and at the prices stated below.

By submission of this Bid, each Bidder certifies, and in the case of a joint Bid, each party thereto certifies as to his/her own organizations, that this Bid has been arrived at independently, without consultation, communication or agreement as to any matter relating to this Bid with any other Bidder or with any competitor.

Bidder hereby agrees to commence Work of Improvement under this Contract within 5 consecutive calendar days after the date of service of the Notice to Proceed and to fully complete the project within 334 consecutive calendar days thereafter as provided in Sections 7 and 34 of the General Conditions.

Bidder acknowledges receipt of the following Addenda: (if none, so state)

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<thead>
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<th>Date</th>
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Attached to this Bid is a list of Subcontractors (Appendix A) as required by Section 27 of the General Conditions and Advertisement for Bid.

Bidder agrees to perform all the Work described in the Contract Documents for the lump sum and unit prices as set forth in the following Bid Schedule.

UNIT PRICES: For changing quantities of work from those indicated on the Drawings and contained within these Specifications, upon written inspections from the Engineer and the Mississippi State Port Authority and for determining payments on account of the contract, the following unit prices shall prevail:
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<th>PAY ITEM</th>
<th>DESCRIPTION</th>
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<th>QUANTITY</th>
<th>UNIT COST</th>
<th>TOTAL</th>
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<td>Construction of Marine Research Facility (All work described in other Sections of the Specifications not included below shall be included in this Pay Item).</td>
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### Bid Form – Addendum 1

**PGRP Project No.:** 413.B  
**PGRP Project Title:** Marine Research Facility – Building Package  
**Architect:** Eley Guild Hardy Architects PA  
**Document Status:** IFB – August 19, 2016 (Revised Addendum #1 – October 7, 2016)

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<th>Description</th>
<th>Unit</th>
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<td>33 11 00.04</td>
<td>6” Backflow Preventer</td>
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<td>Fire Department Connection</td>
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<td>33 11 00.06</td>
<td>6” Gate Valve</td>
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<td>33 49 00.01</td>
<td>Adjustment of Inlet</td>
<td>Each</td>
<td>1</td>
</tr>
<tr>
<td>33 49 00.02</td>
<td>Connect to Existing Drain Inlet</td>
<td>Each</td>
<td>2</td>
</tr>
</tbody>
</table>

**BASE BID:**

**TOTAL AMOUNT OF BASE BID:** $______________ (IN FIGURES)

**TOTAL AMOUNT OF BASE BID:**

__________________________ (IN WORDS)

Note: Bids shall include sales tax and all other applicable taxes and fees. All blanks shall be filled in. Total amount of Bid shall be the sum of the Items. Contract Award will be made based upon the pricing of this Bid Schedule and the contractor qualifications as set forth in the bid documents. In case of discrepancy between the sum of the items and Total Amount of Bid, the sum of the items shall be considered to be the Total Amount of Bid. Award will be made to only one Bidder based upon the Base Bid as applicable from this Bid Form and determination of best value. The undersigned, having read and understood the Bidding Documents and examined the Project site and adjoining areas, and being familiar with the obstacles and conditions that will affect proposed...
Work, hereby offers and agrees to furnish all labor, equipment and materials and to perform all the Work required for “Marine Research Facility” project at the Mississippi State Port Authority at Gulfport, Port of Gulfport, Gulfport, Mississippi in accordance with the Contract Documents and at the prices stated in the preceding Bid Schedule.

Legal Name of Bidder

Address

Signature of Authorized Person

City, State Zip

Name & Title of Authorized Person

Attest

Name & Title

(SEAL--if Bid is by a corporation)

Notes:
If Bid is by a corporation, corporate seal is affixed in space provided immediately above.

Signature is by an individual legally authorized to bind Bidder to a contract. If signature is by an agent of Bidder, the current power-of-attorney verifying agent’s authority to bind Bidder is attached.
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SECTION 07 42 00R – COMPOSITE BUILDING PANELS

PART 1 – GENERAL

1.1 SUMMARY

A. Section includes all aluminum composite building panels and mounting system indicated on the project drawings.

1. Aluminum faced composite panels with mounting system. Panel mounting system including anchorages, shims, furring, fasteners, gaskets and sealants, related flashing adapters, and masking (as required) for a complete installation.

2. Parapet coping, column covers, fascia, soffits, sills, border, and filler items indicated as integral components of the panel system or as designed.

B. Related Sections include the following:

1. Division 1 Section “Mockup Requirements”

2. Division 7 Section “Joints Sealants”

1.2 SYSTEM DESCRIPTION

A. Provide a watertight Rout and Return Dry Seal panel system as indicated on Drawings.

1. Any panel system utilizing a continuous field applied joint sealant is unacceptable.

2. Exposed sealant in the 4-way joints is unacceptable.

1.3 SUBMITTALS

A. Product Data: Submit panel manufacturer's product data, consisting of complete product description and specification.

B. Shop Drawings: submit shop drawings showing project layout and elevations; fastening and anchoring methods; detail and location of joints, sealants, and gaskets; trim; flashing, and accessories.

C. Samples: Submit samples of typical aluminum composite panels, of type, thickness and finish specified.

D. Submit panel system fabricator’s installation manual, indicating the procedures to be followed by the installer in forming, sealing and installing the attachment system.

E. Test Reports: submit certified test reports which meet or exceed the requirements as specified herein.
1.4 QUALITY ASSURANCE

A. The panel system fabricator and attachment system shall be approved by the panel manufacturer.

B. Panel systems manufacturer shall have a minimum of ten (10) years experience.

C. The panel system installer shall be responsible for a complete, sealed and weathertight installation.

D. Provide a composite building panel system which has been pretested by an independent testing laboratory to provide specified resistance to air and water infiltration and structural deflection, when installed. Systems that are not pretested and certified by an independent laboratory prior to bid are unacceptable. The use of a panel manufacturer’s generic tests reports are unacceptable; the tests must be for the specific system submitted by the panel system engineer and fabricator.

E. Structural Deflection: Deflection of perimeter framing members shall not exceed L/175 of span length or 3/4 inches, whichever is less; or there shall be no permanent set in excess of .100 inches.

F. Flatness Criteria: maximum of 1/8" in 15'-0" on panel in any direction for assembled units.

G. Wall System Performance:
   1. Static Air Infiltration (ASTM E283): the air infiltration at 6.24 psf must not exceed .06 cfm per square foot of wall area.
   2. Static Water Infiltration (ASTM E331): when tested at a static pressure of 12.0 psf for 15 minutes, any uncontrolled water infiltration into the roomside beyond the interior barrier of the wall system shall not be permitted.
      a. The panel system shall be designed to provide controlled drainage to the exterior face of the wall for any leakage of water occurring at joints and/or condensation taking place within the wall system.
   3. Structural Performance (ASTM E330) shall be tested in accordance with a design pressure of 40 psf. Deflection limitations are listed previously. After initial test, test at 150% of design pressure. No permanent deformation exceeding L/1000 or failure to structural members allowed.

H. Bond Integrity Test: in accordance with ASTM D1781 for bond integrity, simulating resistance to delaminating.
   1. Peel Strength: 22.5 lb/in (min)

I. Fire Performance Characteristics: (ASTM E84)
   1. Max flame spread, 0.
2. Smoke developed, 0.

1.5 DELIVERY, STORAGE, & HANDLING

A. All materials under this section shall be packaged, boxed, wrapped, or otherwise protected to assure complete protection from damage during shipment.

1. Extra protective measures shall be taken to assure that panel edges are secured from damage at all times.

B. Materials shall be stored in interior spaces or above ground under protective and ventilated covers.

1.6 WARRANTY

A. The panel system fabricator will warrant that the system it supplies will be free from defects in materials and workmanship for a period of three (3) years.

B. The aluminum composite material manufacturer shall warrant for a period of 30 years against Max 5 fade based on ASTM D2244 and Max 8 chalk based on ASTM D4212 and delamination of the paint finish.

PART 2 – PRODUCTS

2.1 MANUFACTURERS

A. Alpolic by Mitsubishi Chemical America, Inc.

B. Reynobond by Alcoa Architectural

C. Alucobond by Alcan Composites

2.2 MATERIALS

A. The drawings and specifications are based on an aluminum composite material fabricated and assembled into panel units using a perimeter extrusion with weather stripping and internal gutters.

B. Composition: Two sheets of .020 aluminum sandwiching a core of extruded thermoplastic formed in a continuous process with no glues or adhesives between dissimilar materials. Core material to be polyethylene. Laminated panels are not acceptable. Total thickness of panel shall be 4mm.

C. Perimeter Extrusions: Anodized extruded aluminum.

D. Stiffeners: extruded aluminum sections
2.3 FABRICATION

A. Fabricate panels to the sizes, configurations and layouts as shown on the approved shop drawings.

B. Shop fabricate and assemble units ready for installation.

C. Panels shall be marked to coordinate with the approved shop drawings.

D. Provide protective film on exposed panel faces and leave in place during fabrication.

E. Rout and return the ACM panels on all perimeters.

F. Maximum overall panel thickness, including the attachment shim space, shall not exceed 2 inches.

G. The ACM panels shall be mechanically attached to all perimeter extrusions.

H. Stiffeners: secure to edge trim and bond to rear face of ACM panels with silicone, of sufficient size and strength to maintain flatness of the panel within the specified tolerances.

I. Reveals at panel: joint sizes between the faces of the perimeter extrusions shall be ¾", nominal.

2.4 FINISHES

A. Coil-coated Kynar 500® or Hylar 5000® based polyvinylidene fluoride (PVDF).

1. Coating: Shall be factory applied on a continuous-process paint line. Coating shall consist of a 0.2 mil (approx.) prime coat and a 0.8 mil (approx.) finish coat containing 70% Kynar 500® resins. Nominal dry film thickness is 1.50 mils.

   a. Colors to be selected from full line of Reynobond Duragloss 3000.

PART 3 – EXECUTION

3.1 PREPARATION

A. Installer shall examine all surfaces and conditions which the work of this section is to be applied and notify the contractor, in writing, of any defects which would be detrimental to proper installation and alignment of the work. No work shall be erected until all discrepancies have been resolved. Application of materials constitutes acceptance of subsurfaces and conditions.

B. Penetrations required by other trades will be field cut by the trade involved.
3.2 INSTALLATION

A. Install composite metal panel system in accordance with the panel system fabricator’s instructions and approved shop drawings.

B. Erect and securely anchor all panels plumb, level, square and true to line in accordance with approved shop drawings.

C. Tolerances: Maximum deviation from vertical and horizontal alignment of erected panels shall not exceed 1/8” inch per 12 foot length of any member, or 1/4” in any total run in any line.

D. Use concealed fastening system of non-corrosive type fasteners as recommended by the panel system fabricator. These fasteners to occur under all sealant joints. No exposed, visible fasteners are permitted.

E. Sealant at all panel joints to be installed as part of the related specifications.

F. Installer to prime metal surfaces as recommended by sealant manufacturer. Install sealant in accordance with sealant manufacturer’s recommendations. Finished sealant joints to have clean edges.

G. Remove protective film from panel faces immediately upon completion of panel and sealant installation.

3.3 PROTECTION

A. Assure that gutters and weep remain clean and unobstructed after installation.

END OF SECTION