

**ADDENDUM II**

Date of Addendum: October 31, 2014

Project Name: Renovations to USS North Carolina Battleship Memorial

SCO No. 07-07349-01A

**PROJECT INFORMATION**

- A. Owner: North Carolina Department of Cultural Resources
- B. Architect: LS3P
- C. Architect Project Number: 7500-091350

**NOTICE TO BIDDERS**

- A. This Addendum is issued to plan holders pursuant to the Notice to Bidders and Conditions of the Contract. This Addendum serves to clarify, revise, and supersede information in the Project Manual, Drawings, and previously issued Addenda. Portions of the Addendum affecting the Contract Documents will be incorporated into the Contract by enumeration of the Addendum in the Owner/Contractor Agreement.
- B. The Bidder shall acknowledge receipt of this Addendum in the appropriate space on the Bid Form.
- C. The date, time, and location for receipt of bids are unchanged by this Addendum.

**ATTACHMENTS**

- A. This Addendum includes the following attached Specification Section:
  - 1. Section 035413

**REVISIONS TO DIVISION 00 PROCUREMENT AND CONTRACTING REQUIREMENTS**

Item II-1. Form OC-15, General Conditions of the Contract, Article 34: Clarification - Longshore and Harbor Worker's insurance is not required for this Project. The Battleship is a museum that rests on the bottom of the Cape Fear River and is no longer capable of transporting goods or people.

- 1. The Battleship does not meet the definition of a vessel as defined by United States Supreme Court. [http://www.supremecourt.gov/opinions/12pdf/11-626\\_p8k0.pdf](http://www.supremecourt.gov/opinions/12pdf/11-626_p8k0.pdf)
- 2. For additional information, refer to United States Department of Labor, Division of Longshore and Harbor Workers' Compensation. <http://www.dol.gov/owcp/dlhwc/lhwcinsreq.htm>

**REVISIONS TO DIVISIONS 02 - 49 SPECIFICATION SECTIONS**

Item II-2. Section 02080, Article 1.02 B: Revise tables to read as follows:

**Table 1, 02 Deck**

Room	TSI On Piping (LF)	TSI On Duct(SF)		Other
B-0201L Admirals Cabin/ State-room	36			

Room	TSI On Piping (LF)	TSI On Duct(SF)		Other
B-0205E Blower Room	25	320		
B-0204L Admiral's Pantry	24			

**Table 2, Main Deck**

Room	TSI On Piping (LF)	TSI On Duct (SF)		Other
A-103L-A Forward Women's Head				
A-103L-B Forward Men's Head	20	12		
B-103L Head Off Crew's Library	15			
B-103L Crew's Library	30			
A-107L Ward Room	3 observed, remove any additional that is present	Unknown, remove any that is present		2160 SF of Spray Applied Surfacing
A-107L Ward Room Lounge				382 SF of Spray Applied Surfacing
B-101L Pantry	130			
B-101L Dishwashing	70			
B-103L Captain's and Navigator's Office	20			Cloth wrap on heater box
A-105E	30	250		

**Table 3, 2<sup>nd</sup> Deck**

Room	TSI On Piping (LF)	TSI On Duct(SF)		Other
B-215-3L Crew's Water Closet	100	180		
B-207-3L Crew's Wash Room	160			
B-215-1L Crew's Quarters		230		
A-211-1L Crew's and Marine's Quarters	7 Crossings	140		
B-203L Crew's Quarters	100	400		
Uptake area beneath B-121 & B-123	50			
Starboard side ship's stair from main deck to 2 <sup>nd</sup> deck	60 (3-4" lines to make room for new stair)			
Port side ship's stair from main deck to 2 <sup>nd</sup> deck	60 (3-4" lines to make room for new stair)			

**Table X, Other**

Room	TSI On Piping (LF)	TSI On Duct(SF)		Other
Transitions between identified rooms	Unknown	Unknown		Unknown
The contractor shall review the drawings and remove asbestos containing materials in way of pipe, duct or other newly installed material that travels from one identified renovation or demolition room or area to another. The ACM shall be removed to a distance of two feet on both sides of any expected disturbance. The route shall be marked for the contractor.				

Item II-3. Section 02080, Article 1.02: Add Paragraph C as follows:

- C. Remove duct with joint gaskets in accordance with the following instructions:
1. Cut duct on either side of joint without disturbing the gasket.
  2. Place duct section with gasket in a 6 mil polyethylene bag.
  3. Label and dispose of the bag in accordance with the requirements of the asbestos abatement Specification Section 02084.

Item II-4. Section 033053: Delete this Section in its entirety.

Item II-5. Add Section 035413 "Gypsum Cement Underlayment."

#### **ADDITIONAL ACCEPTABLE MANUFACTURERS**

Item II-6. Additional Acceptable Manufacturers: The following is a list of manufacturers who will be considered providing they can comply with the specifications and are of equal or greater quality and function, and perform like the specified products. Inclusion to the list of acceptable manufacturers does not eliminate the necessity to comply with specifications. Non-compliant manufacturers and products will be rejected regardless of manufacturer being listed.

Section 220027      Bradley Corporation (P-10 Shower and P-11 Mixing Valve)

#### **REVISIONS TO DRAWING SHEETS**

Item II-7. Sheet A-801, Finish Schedule:

1. Change floor and base finishes in the following locations to Resinous Flooring per Section 096723 with integral cove base.
  - a. A-103L-A Head HC
  - b. A-103L-B Head
  - c. A-103L-C Vestibule
  - d. B-101L Pantry
  - e. B-101L Dishwashing
  - f. B-121L Women's Toilet Room
  - g. B-123L Men's Toilet Room
  - h. B-207-3L Crew's Wash Room
  - i. B-215-3L Crew's WC

2. Delete all references to rubber base. Resinous and linoleum flooring shall be provided with integral base.

END OF ADDENDUM NO. II

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**SECTION 035413 - GYPSUM CEMENT UNDERLAYMENT****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 gypsum-cement-based, self-leveling underlayment for application below interior floor coverings.
- B. Related Sections:
  - 1. Division 09 sections for patching and leveling compounds applied with floor coverings.

**1.3 ACTION SUBMITTALS**

- A. Product Data: For each type of product indicated.
- B. Shop Drawings: Include plans indicating substrates, locations, and average depths of underlayment based on survey of substrate conditions.

**1.4 INFORMATIONAL SUBMITTALS**

- A. Qualification Data: For qualified Installer.
- B. Product Certificates: Signed by manufacturers of underlayment and floor-covering systems certifying that products are compatible.
- C. Minutes of preinstallation conference.

**1.5 QUALITY ASSURANCE**

- A. Installer Qualifications: Installer who is approved by manufacturer for application of underlayment products required for this Project.
- B. Product Compatibility: Manufacturers of underlayment and floor-covering systems certify in writing that products are compatible.
- C. Fire-Resistance Ratings: Where indicated, provide gypsum-cement underlayment systems identical to those of assemblies tested for fire resistance per ASTM E 119 by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.
  - 1. Indicate design designations from UL's "Fire Resistance Directory" or from the listings of another qualified testing agency.
- D. Preinstallation Conference: Conduct conference at Project site.

## 1.6 DELIVERY, STORAGE, AND HANDLING

- A. Store materials to comply with manufacturer's written instructions to prevent deterioration from moisture or other detrimental effects.

## 1.7 PROJECT CONDITIONS

- A. Unless otherwise permitted in writing by manufacturer, do not begin installation until the building is enclosed and windows, doors, louvers, and similar opening items are in place.
- B. Environmental Limitations: Comply with manufacturer's written instructions for substrate temperature, ventilation, ambient temperature and humidity, and other conditions affecting underlayment performance.
  - 1. Place gypsum-cement-based underlayments only when ambient temperature and temperature of substrates are between 50 and 80 deg F.

## 1.8 COORDINATION

- A. Coordinate application of underlayment with requirements of floor-covering products and adhesives, to ensure compatibility of products.

## PART 2 - PRODUCTS

### 2.1 GYPSUM-CEMENT-BASED UNDERLAYMENTS

- A. Underlayment: Gypsum-cement-based, self-leveling product that can be applied in minimum uniform thickness of 1/8 inch and that can be feathered at edges to match adjacent floor elevations.
  - 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
    - a. Allied Custom Gypsum
    - b. Ardex
    - c. Bonsal American, an Oldcastle company
    - d. CMP Specialty Products, Inc.
    - e. Conspec by Dayton Superior
    - f. Euclid Chemical Company
    - g. Hacker Industries, Inc.
    - h. Maxxon Corporation
    - i. USG Corporation
  - 2. Cement Binder: Gypsum or blended gypsum cement as defined by ASTM C 219.
  - 3. Compressive Strength: Not less than 2000 psi at 28 days when tested according to ASTM C 472.
  - 4. Underlayment Additive: Resilient-emulsion product of underlayment manufacturer, formulated for use with underlayment when applied to substrate and conditions indicated.
- B. Aggregate: Well-graded, washed gravel, 1/8 to 1/4 inch; or coarse sand as recommended by underlayment manufacturer.

1. Provide aggregate when recommended in writing by underlayment manufacturer for underlayment thickness required.
- C. Water: Potable and at a temperature of not more than 70 deg F.
- D. Primer: Product of underlayment manufacturer recommended in writing for substrate, conditions, and application indicated.

## PART 3 - EXECUTION

### 3.1 EXAMINATION

- A. Examine substrates, with Installer present, for conditions affecting performance.
1. Proceed with application only after unsatisfactory conditions have been corrected.

### 3.2 PREPARATION

- A. General: Prepare and clean substrate according to manufacturer's written instructions.
1. Treat nonmoving substrate cracks according to manufacturer's written instructions to prevent cracks from telegraphing (reflecting) through underlayment.
  2. Fill substrate voids to prevent underlayment from leaking.
- B. Metal Substrates: Mechanically remove, according to manufacturer's written instructions, rust, foreign matter, and other contaminants that might impair underlayment bond. Apply corrosion-resistant coating compatible with underlayment if recommended in writing by underlayment manufacturer.
- C. Adhesion Tests: After substrate preparation, test substrate for adhesion with underlayment according to manufacturer's written instructions.

### 3.3 APPLICATION

- A. General: Mix and apply underlayment components according to manufacturer's written instructions.
1. Close areas to traffic during underlayment application and for time period after application recommended in writing by manufacturer.
  2. Coordinate application of components to provide optimum underlayment-to-substrate and intercoat adhesion.
  3. At substrate expansion, isolation, and other moving joints, allow joint of same width to continue through underlayment.
- B. Apply primer over prepared substrate at manufacturer's recommended spreading rate.
- C. Apply underlayment to produce uniform, level surface.
1. Apply a final layer without aggregate to product surface.
  2. Feather edges to match adjacent floor elevations.
- D. Cure underlayment according to manufacturer's written instructions. Prevent contamination during application and curing processes.

- E. Do not install floor coverings over underlayment until after time period recommended in writing by underlayment manufacturer.
- F. Remove and replace underlayment areas that evidence lack of bond with substrate, including areas that emit a "hollow" sound when tapped.

### 3.4 FIELD QUALITY CONTROL

- A. Testing and Inspecting: Owner may engage a qualified testing and inspecting agency to perform tests and inspections and to submit reports.
- B. Slump Test: Perform slump test at the beginning of each installation to verify mix proportions:
  - 1. Place mix into 2-inch (i.d.) by 4-inch cylinder. Remove cylinder; resulting patty shall measure between 8 and 9-1/2 inches in diameter.
- C. Compressive Strength: Testing of composite samples of fresh underlayment material obtained according to ASTM C 472 shall be performed according to the following requirements:
  - 1. Testing Frequency: Take one set of three molded cubes samples for every 10,000 square feet.
  - 2. Compression Test Specimens: 2-inch split cube molds per ASTM C 472.
  - 3. Compressive-Strength Tests: ASTM C 472.
    - a. Strength of each underlayment mixture will be satisfactory if every average of any three consecutive compressive-strength tests equals or exceeds specified compressive strength and no compressive-strength test value falls below specified compressive strength by more than 500 psi.
  - 4. Report test results in writing to Architect, underlayment manufacturer, and Contractor within 48 hours of testing. Reports of compressive-strength tests shall contain Project identification name and number, date of installation, name of testing and inspecting agency, location of underlayment batch in Work, design compressive strength, mixture proportions and materials, compressive breaking strength, and type of break.

### 3.5 PROTECTION

- A. Protect underlayment from concentrated and rolling loads for remainder of construction period.

END OF SECTION 035413