



STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS

Department of Administration
DIVISION OF PURCHASES
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May 24, 2018
ADDENDUM NUMBER TWO
RFQ # 7592720
TITLE: STATE HOUSE INTERIOR ACCESSIBILITY UPGRADES

Closing Date and Time: 6/1/18 AT 2:30PM (Note Change)

Per the issuance of this ADDENDUM #2 (23 pages) the following is noted:

Please be advised the Bid Closing Date and Time has been extended:

From: 5/29/18 at 10:00 AM

To: 6/1/18 at 2:30 PM

This addendum posts notes/clarifications to bid specifications.

This addendum posts revised bid form.

Solicitation Number: 7592720

Solicitation title: State House Accessibility Upgrades

Addendum 2

PART 1 – REVISIONS AND CLARIFICATIONS TO THE CONSTRUCTION DOCUMENTS

**1) Refer to Project Manual, Section 002115, 4.1.8; DELETE in its entirety and REPLACE with:
"4.1.8 ADDITIONAL BID INFORMATION AND REQUIREMENTS**

A. Due to the extremely sensitive nature of the work of this project, and the specialized skills required for same, the following information should be carefully noted.

1. The Rhode Island State House is an important historical building because of its association with significant historical events, and for its quality of architecture.
2. It is important that the successful bidder be familiar with the preservation, rehabilitation, restoration and reconstruction of historic buildings. The bidding Contractor should demonstrate verifiable evidence of previous experience working on buildings 100 years old or older.

B. General Contractor qualifications

The following items should be submitted as attachments to the Bid:

1. Firm history, indicating number of years in business as a General Contractor.
2. Resumes of principal(s) of the firm who will be responsible for this project.
3. Proposed list of subcontractors to be used on this project.
4. A list of projects successfully completed by the General Contractor's company should be submitted with the Bid as stipulated below:

List a minimum of three (3) projects completed within the previous five (5) years that demonstrates the bidder's experience with historic preservation projects specifically pertaining to restoration and repairs on a historic building dating 100 years old or older.

The following information is required for each project listed:

- a. Name and address of building.
- b. Age of building (approximate year of original construction.)
- c. Contract price.
- d. Detailed description of scope of work
- e. Date of completion
- f. Name and phone number of architect or design professional associated with the project.
- g. Name and phone number of the owner or owner's representative.

C. Subcontractor qualifications

Due to the importance of the expertise of the subcontractors that will be required to work on this project, the following information should be submitted with the Bid:

1. Millwork/Casework Subcontractor
 - a. Submit firm's name, contact and history, indicating number of years in business.

b. List a minimum of three (3) projects completed within the previous five (5) years that demonstrate the company's experience with historic preservation projects specifically pertaining to or involving millwork/casework on an historic building dating 100 years old or older and are skilled in working in historic buildings as described herein.

The following information is required for each project listed:

1. Name of building.
2. Age of building (approximate year of original construction.)
3. Contract price.
4. Detailed description of scope of work (must include work with historic millwork/casework).
5. Date of completion
6. Name and phone number of the architect or design professional associated with the project.
7. Name and phone number of the owner or owner's representative.

2. Faux painter Subcontractor

a. Submit firm's name, contact and history, indicating number of years in business.

b. List a minimum of three (3) projects completed that demonstrate the company's experience with historic faux painting projects.

The following information is required for each project/installation listed:

1. Detailed description of scope of work
2. Date of completion
3. Name and phone number of the owner or owner's representative.

D. The bidding Contractor's qualifications will be reviewed by the State of Rhode Island Department of Administration and the R.I. Historical Preservation & Heritage Commission. Approval by both of these agencies is required for final contract award. The State reserves the right and sole discretion to determine equivalent or prior experience and the right to reject any or all bids which fail to demonstrate equivalent prior experience. Failure to respond with relevant information to the stated requirements of this Document may disqualify the Bidder from further consideration as a bidder on this project”.

2) Refer to Section 096816, 1.3 B; DELETE in its entirety and REPLACE with:

“B. Samples: For each of the following products and for each color and texture required. Label each Sample with manufacturer's name, material description, color, pattern, and designation indicated on Drawings and in schedules. Submissions that do not match the existing carpeting will be rejected and new samples submitted.

1. Temporary and Permanent Carpet: 12-inch- square Sample (2 quantity).
2. Temporary and Permanent Carpet Seam: 6-inch Sample (2 quantity).
3. Permanent Carpet: Submit (for each color 2 quantity of each) dyed yarns and quality sample for approval.”

3) Refer to Section 096816, 2.1 D.; DELETE in its entirety and REPLACE with:

"D. Permanent Carpet Type:

1. Custom to match Owner's sample in material, backing, colors, fiber, yarn, dye method and given specifications, to replicate existing greyish carpet in Senate Gallery and reddish carpet in House Gallery.

2. woven carpet type: Axminster Carpet

3. fiber composition: 80% wool/20% nylon

4. density: 7 pitch, 10 row

5. Pile height: .275 pile height

6. Yarn count: 2 ply/ 47s count wool

7. Pile weight: 50.40 ozs/sq yard

4) Refer to Section 08 7113, Door Operators

Revise par. 2.1 , A. 1 to read: "Norton, an ASSA ABLOY Company; 5800 Series ADAEZ Pro, wireless"

5) Refer to Section 087113, 2.2; ADD

"C. Provide three (3) extra batteries and three (3) extra battery chargers."

6) Refer to Section 000110, Table of Contents; DELETE:

"017330 Attachment A Waste Management"

"017331 Attachment B Small Project Changes"

"097519 Stone Trim".

7) Refer to Section 097519 Stone Trim; DELETE in its entirety.

8) Refer to Section 017800 1.4. F.1.; DELETE in its entirety.

9) Refer to Section 064023 2.3 B.; DELETE in its entirety and REPLACE with:

"B. Existing Wood Species and Cut."

10) Refer to Section 090120.91 1.2.B; ADD:

"2. Division 0, Section 00 2115."

11) Please see the revised Section 099100, attached, and also note the additions to that section in this addendum.

12) Refer to Addendum 2 Attachment, Section 099100 1.2; ADD:

"E. Faux Painting Basis of Design:

1. John Vaughn - Architectural Conservation Services

33 Richmond Street, Bristol, RI 02809 401-410-0077, 401-419-5953

2. Robert O'Donnell - E.F. O'Donnell & Sons Co, Inc.

P.O. Box 3239, 75 Dike Street, Providence, RI 02909 401-351-8505

3. John Canning Company, 150 Commerce Court, Cheshire, CT 06410 203-272-9868.”

13) Refer to Section 000800, 13.31 Work and Work Time Schedule; DELETE in its entirety and REPLACE with:

“Work/ Working Time Schedule

1. All demolition, noise and dust generating construction, painting and refinishing, and carpeting for the Senate and House Gallery Bench and Landing Modifications/ To occur from 5PM Friday to 8PM Sunday (restricted work hours).
2. All door hardware / To occur from 8 AM to 5PM Monday through Friday (with Pre-approved schedule) (limited restricted work hours).
3. All placement of Fire hose aprons only (not refinishing or painting)/ To occur from 8 AM to 5PM Monday through Friday (with Pre-approved schedule) (limited restricted work hours).
4. All refinishing or painting of Fire hose aprons in the field/To occur from 5PM Friday to 8PM Sunday (restricted work hours).”

14) Refer to Section 000800, 13.21, bullet point 1; ADD:

“No loud or sustained noises such as drilling, coring, grinding, sawing, demolition, and the like may occur during hours of State House business occupation.”

15) Refer to section 011000, 1.01 B.1: DELETE in its entirety, and REPLACE with:

“1. The project intent is to upgrade the accessibility to the disabled in various areas of this historic building. Knowledge of Historic Preservation and Heritage Commission guidelines is required in the execution of the work. The scope is described in the drawings and specs and it includes, but not limited to the following:

- install aprons, typical at fire hose cabinets;
- modify benches and landings at senate and house galleries for wheel chair access;
- provide and install door operators. “

16) Refer to Section 011010, paragraph 2 and 3 (beginning with “Restricted” and ending with “basement.”; DELETE in its entirety, and REPLACE with:

“TIME RESTRICTIONS: See Section 00 8000, 13.31, Work and Work Time Schedule”

17) Refer to Section 011010, OTHER AREAS/GENERAL NOTES;; ADD:

“No equipment or materials shall be stored in the Gallery areas of Work containment; Temporary carpet must be installed as soon as possible after the adjacent work is complete to allow for full use of the areas by the Owner in the interim. “

18) Refer to Section 015000, 1.21 B.; DELETE in its entirety, and REPLACE with:

“Provide full pressurized air dust containment as specified in Section 008000 for Work in and about the galleries.”

19) Refer to Section 017000, 1.05; DELETE:

“1.05 PROTECTION OF ADJACENT CONSTRUCTION” and REPLACE with:

“1.05 PROTECTION OF ADJACENT CONSTRUCTION AND PATHWAYS AND STAGING AREAS FOR WORK” .

20) Refer to Section 017000, 1.05, A; DELETE in its entirety and REPLACE with:

“A. Protect existing property to include, but not limited to, flooring, stairs, walls, ceilings, handrails, doors, and fixtures used operationally for the Work of the project. Provide special protection where specified in individual Specification Sections. All work damaged by the Contractor must repaired or replaced per Section 002115.”

21) Refer to Section 090120.91, 1.2 B.; ADD:

“2. Division 0, Section 00 2115”.

22) Refer to Addendum 2 Attachment, Section 099100, 1.1; ADD:

“B. Section 00 2115”.

23) Refer to Drawing A2.107;

a. DELETE image entitled “EXISTING DECORATIVE LEVER DOOR REPLACE SPRING”.

b. ADD to first note under schedule: “NOT IN CONTRACT”.

24) Refer to Drawing A2.107, Door Schedule; ADD:

a. “This is Base Bid” to doors 338, 342, 347.

b. “This is Alternate 2” to doors B37A, BI4A, 231, 232, 329, 329A.

c. “Not in Contract” to doors 116A, 131, 135, 135A, 214, 214A, 215, 215A, 230, 230A, 200A, 200B, 208, 222.

25) Refer to Section 005201, AIA draft document A101, §3.3, Portion of Work/Substantial Completion Schedule; DELETE in its entirety and REPLACE with:

“Refer to Section 000800 Supplementary Conditions, 13.31 Work and Work Time Schedule.”

26) Please see the revised Bid form, attached.

27) Refer to Addendum 2 Attachment, Section 099100 1.7 C. 1.; ADD:

“b. F.E. Cabinet Aprons: Provide one apron mock up of faux marble paint.”

28) Refer to Addendum 2 Attachment, Section 099100 3.2; ADD:

“E. Painting must be in compliance with section 00 8000 and 00 2115.”

PART 2 – PRE-BID CONFERENCE MINUTES

The meeting convened at 10:05 AM at RI State House, 82 Smith St., Providence, RI 1st Floor in the South Foyer (Bell Room) on Monday, May 14, 2018. A representative from the Division of

Purchases announced that this is a mandatory pre-bid meeting for Solicitation Number: 7592720, Solicitation title: State House Accessibility Upgrades. At least one representative from each vendor was advised to sign the sign-in sheet. It was stated that all prospective vendors must peruse the Division of Purchases website for information and addenda on this project and that all written questions received along with written responses to those questions will be sent to all entities receiving this solicitation. Questions must be emailed and received by the Division of Purchase no later than Wednesday, May 16, 2018, 5:00 PM, in a Microsoft Word attachment with the corresponding solicitation number. Questions, if any, and responses will be posted on the Division of Purchases website at www.purchasing.ri.gov as an addendum to this solicitation. The State advised the Vendors to review the submittal information carefully and submit their bid in compliance.

Mikael Powell, a representative from the Division of Capital Asset Management and Maintenance noted that while information will be presented in person during the meeting, only the written meeting minutes, as included in the addendum, prevails as the final word and documentation of the meeting. He presented the project: The project intent is to upgrade the accessibility to the disabled in various areas of this historic building. Knowledge of Historic Preservation and Heritage Commission guidelines is required in the execution of the work. The scope is described in the drawings and specs and it includes, but not is limited to installing aprons at fire hose cabinets to provide accessible pathways, modifying benches and landings at Senate and House galleries for wheel chair access and providing and installing door operators. Marco Tommasini with Tecton Architects said that an addendum will be issued shortly that removes the work with raising pipes in the subbasement and much of the accessibility work in that area. Mikael Powell said that in the galleries, all areas exposed due to this Work, even areas underneath the benches, must be refinished to match existing, negative pressure containment is required for all Work in the galleries, and, the contractor cannot use the elevators so access will be via a designated stair and the contractor can come in in the Subbasement entrance and, with notice and approval, the first floor Main entrance drive around. It was commented that there was not enough time in the schedule to complete the Work. Mikael Powell said that if time frames are expanded, then it will be included in an addendum. Mikael Powell said that signage is required at the existing FEC cabinets that are being repainted. The group toured the areas of construction and were able to inspect the sites. All questions were advised to be sent to the Division of Purchases for answers. The meeting adjourned at 10:40 AM.

-end

Attached: Bid Form, 099100

Solicitation #: 7592720

Solicitation Title: Rhode Island State House Interior Accessibility Upgrades

BID FORM (Revised for Addendum 2)

To: Rhode Island State House Interior Accessibility Upgrades
82 Smith Street
Providence, Rhode Island

Bidder:

Legal name of entity

Address

Contact name Contact email

Contact telephone Contact fax

1. BASE BID PRICE

The Bidder submits this bid proposal to perform all of the work (including labor and materials) as described in the solicitation for this Base Bid Price, (including the costs for all Allowances, Bonds, and Addenda):

\$

(Base Bid Price *in figures* printed electronically, typed, or handwritten legibly in ink)

(Base Bid Price *in words* electronically, typed, or handwritten legibly in ink)

2. ALLOWANCES

The Base Bid Price ***includes*** the costs for the following Allowances:

Lump Sum Allowances (These services are not subject to Contractor/ Subcontractor/Sub-SubContractor profit markups).

1. Testing	\$5,000.00
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This Allowance is to hire an independent company, approved by the Owner, to provide testing services not currently included in the Construction documents.

2. Abatement and Additional Construction and Installation \$15,000.00

This Allowance is to remedy conditions that are uncovered during demolition that are not currently included in the Construction documents.

Total Allowances: \$20,000.00

- **BONDS**

The Base Bid Price ***includes*** the costs for all Bid and Payment and Performance Bonds required by the solicitation.

- **ADDENDA**

The Bidder has examined the entire solicitation (including the following Addenda), and the Base Bid Price ***includes*** the costs of any modifications required by the Addenda.

All Addenda must be acknowledged.

Addendum No. 1, dated

Addendum No. 2, dated

Addendum No. 3, dated

Addendum No. 4, dated

Addendum No. 5, dated

3. ALTERNATES

(Alternates are additions to Base Bid Price.)

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Solicitation Title: Rhode Island State House Interior Accessibility Upgrades

The Bidder offers to: (i) perform the work described in these Alternates as selected by the State in the order of priority specified below, based on the availability of funds and the best interest of the State; and (ii) increase the Base Bid Price by the amount set forth below for each Alternate selected.

ADD ALTERNATE- #01

Provide and install the following fire hose aprons: 4 qty. on third floor, 4 qty. on second floor, 4 qty. on first floor, 4 qty. on basement floor, 2 qty. on subbasement floor as indicated in the construction documents.

\$ _____

(Amount *in figures* printed electronically, typed, or handwritten legibly in ink)

(Amount *in words* electronically, typed, or handwritten legibly in ink)

ADD ALTERNATE- #02

Provide and install automatic battery powered door operators and accessories to doors B37A, B14A, 231, 232, 329, 329A as indicated in the construction documents.

\$ _____

(Amount *in figures* printed electronically, typed, or handwritten legibly in ink)

(Amount *in words* electronically, typed, or handwritten legibly in ink)

4. UNIT PRICES

Not used

5. CONTRACT TIME and DEADLINES

The Bidder offers to perform the work in accordance with the timeline specified below:

Solicitation #: 7592720

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- All items to provide the Sub-basement fire hose aprons, and all items to provide Senate and House Gallery bench modification including temporary carpet is 75 calendar days from commencement of project.
- All Work to provide Final carpeting is 90 calendar days from commencement of project.
- All Work to provide Alternate 1 is 90 calendar days from commencement of project.
All Work to provide Alternate 2 is 90 calendar days from commencement of project.
- Final Completion shall be no later than 14 calendar days from substantial completion.
- **Contractor shall commence project within two (2) calendar days of issuance of P.O., but no earlier than July 6, 2018.**

6. LIQUIDATED DAMAGES

The successful bidder awarded a contract pursuant to this solicitation shall be liable for and pay the State, as liquidated damages and not as a penalty, the following amount for each calendar day of delay beyond the date for substantial completion of each Work item, as determined in the sole discretion of the State: Five Hundred Dollars (\$500.00) per day.

BID FORM SIGNATURE(S)

This bid proposal is irrevocable for 90 days from the bid proposal submission deadline.

If the Bidder is determined to be the successful bidder pursuant to this solicitation, the bidder will promptly: (i) comply with each of the requirements of the Tentative Letter of Award; and (ii) commence and diligently pursue the work upon issuance and receipt of the purchase order from the State and authorization from the user agency.

The person signing below certifies that he or she has been duly authorized to execute and submit this bid proposal on behalf of the Bidder.

BIDDER

Date: _____

Name of Bidder

Signature in ink

Printed name and title of person signing on behalf of Bidder

#

Bidder's Contractor Registration Number

SECTION 09 9100 - PAINTING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. The Contractor, Subcontractors, and/or suppliers providing goods or services referenced in or related to this Section shall also be bound by the Documents identified in Division 01 Section "Summary", Paragraph 1.1A, entitled "Related Documents."

1.2 SUMMARY

- A. This Section includes surface preparation and the application of paint systems on the following substrates:
 - 1. Steel pipe railings.
 - 2. MDO panels.
 - 3. Wood trim.
 - 4. Concrete slabs / flooring.
 - 5. Existing plaster.
- B. Paint exposed surfaces, except where these Specifications indicate that the surface or material is not to be painted or is to remain natural. If an item or a surface is not specifically mentioned, paint the item or surface the same as similar adjacent materials or surfaces. If a color of finish is not indicated, Architect will select from standard colors and finishes available.
- C. Do not paint prefinished items, concealed surfaces, finished metal surfaces, operating parts, and labels.
 - 1. Prefinished items include the following factory-finished components:
 - a. Finished mechanical and electrical equipment.
 - b. Light fixtures and wiring devices.
 - 2. Concealed surfaces include walls or ceilings in the following generally inaccessible spaces:
 - a. Furred areas.
 - 3. Finished metal surfaces include the following:
 - a. Anodized or coated aluminum.
 - b. Stainless steel.
 - c. Chromium plate.
 - d. Copper and copper alloys.
 - e. Bronze and brass.

4. Operating parts include moving parts of operating equipment and the following:
 - a. Valve and damper operators.
 - b. Linkages.
 - c. Sensing devices.
 - d. Motor and fan shafts.
5. Labels: Do not paint over UL, FMG, or other code-required labels or equipment name, identification, performance rating, or nomenclature plates.

D. Related Sections include the following:

1. Division 05 Section "Pipe and Tube Railings" for shop priming ferrous metal.
2. Division 06 Section "Interior Architectural Woodwork" for items indicated to be field finished by this Section.
3. Division 09 Section "Plaster Repair."
4. Division 09 Section "Gypsum Veneer Plastering."

1.3 DEFINITIONS

A. General: Standard coating terms defined in ASTM D 16 apply to this Section.

1. Flat refers to a lusterless or matte finish with a gloss range below 15 when measured at an 85-degree meter.
2. Eggshell refers to low-sheen finish with a gloss range between 20 and 35 when measured at a 60-degree meter.
3. Semigloss refers to medium-sheen finish with a gloss range between 35 and 70 when measured at a 60-degree meter.
4. Full gloss refers to high-sheen finish with a gloss range more than 70 when measured at a 60-degree meter.

B. Plain Painting: For historic treatment, this means painting that requires attention to historic treatment requirements, but no special, decorative or artistic painting skill.

1.4 SUBMITTALS

A. Product Data: For each type of product indicated.

1. Material List: An inclusive list of required coating materials. Indicate each material and cross-reference specific coating, finish system, and application. Identify each material by manufacturer's catalog number and general classification.
2. Manufacturer's Information: Manufacturer's technical information, including label analysis and instructions for handling, storing, and applying each coating material.
3. Certification by the manufacturer that products supplied comply with State of Rhode Island Ozone Transportation Commission (OTC) regulations controlling use of volatile organic compounds (VOCs).

- B. Samples for Verification: For each type of paint system and in each color and gloss of topcoat indicated.
1. Submit Samples on rigid backing, 8 inches square.
 2. Step coats on Samples to show each coat required for system.
 3. Label each coat of each Sample.
 4. Label each Sample for location and application area.
 5. **Submit 2 Samples on the following substrates for Architect's review of color and texture only:**
 - a. **Stained or Natural Wood: 4-by-8-inch. Samples of natural- or stained-wood finish on representative wood surfaces.**
- C. Qualification Data: For firms and persons specified in the "Quality Assurance" Article to demonstrate their capabilities and experience. Include lists of completed projects with project names and addresses, names and addresses of Architects and Owners, and other information specified.
- D. Product List: For each product indicated, include the following:
1. Cross-reference to paint system and locations of application areas. Use same designations indicated on Drawings and in schedules.
 2. VOC content.

1.5 CLOSEOUT SUBMITTALS

- A. Maintenance Data: For coatings to include in maintenance manuals. Include the following:
1. Area summary with Finish Schedule and area detail designating where each product, color, and finish is used.
 2. Product data pages.
 3. Material safety data sheets.
 4. Care and cleaning instructions.
 5. Touch-up procedures.
 6. Color samples of each color and finish (gloss level) used.
- B. Manual: Provide Sherwin Williams; "Custodian Project Color and Product Information" manual, or equal.

1.6 MAINTENANCE MATERIAL SUBMITTALS

- A. Furnish extra materials described below that are from same production run (batch mix) as materials applied and that are packaged for storage and identified with labels describing contents.
1. Quantity: Furnish an additional 1 gallon of each material and color applied.

1.7 QUALITY ASSURANCE

- A. **Applicator Qualifications:** A firm or individual experienced in applying paints and coatings similar in material, design, and extent to those indicated for this Project, whose work has resulted in applications with a record of successful in-service performance.
- B. **Comply with the Secretary of the Interior's Standards for the Treatment of Historic Properties, Standards for Preservation as follows:**
 - 1. **Preservation Brief 18: Rehabilitating Interiors in Historic Buildings: Identifying and Preserving Character-Defining Elements.**
 - 2. **Preservation Brief 28: Painting Historic Interiors.**
- C. **Mockups:** Apply benchmark samples of each paint system indicated and each color and finish selected to verify preliminary selections made under sample submittals and to demonstrate aesthetic effects and set quality standards for materials and execution.
 - 1. **Architect will select one surface to represent surfaces and conditions for application of each paint system specified in Part 3.**
 - a. **Wall Surfaces:** Provide samples of at least 100 sq. ft.
 - 2. **Apply benchmark samples after permanent lighting and other environmental services have been activated.**
 - 3. **Final approval of color selections will be based on benchmark samples.**
 - a. **If preliminary color selections are not approved, apply additional benchmark samples of additional colors selected by Architect at no added cost to Owner.**
 - 4. **Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Architect specifically approves such deviations in writing.**
 - 5. **Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.**

1.8 DELIVERY, STORAGE, AND HANDLING

- A. **Store materials not in use in tightly covered containers in well-ventilated areas with ambient temperatures continuously maintained at not less than 45 deg F.**
 - 1. **Maintain containers in clean condition, free of foreign materials and residue.**
 - 2. **Remove rags and waste from storage areas daily.**

1.9 PROJECT CONDITIONS

- A. **Apply paints only when temperature of surfaces to be painted and ambient air temperatures are between 50 and 95 deg F.**
- B. **Do not apply paints in snow, rain, fog, or mist; when relative humidity exceeds 85 percent; at temperatures less than 5 deg F above the dew point; or to damp or wet surfaces.**

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
1. Benjamin Moore & Co.
 2. PPG Architectural Finishes, Inc.; Pittsburgh Paints.
 3. Sherwin-Williams Co.

2.2 PAINT, GENERAL

- A. Material Compatibility:
1. Provide materials for use within each paint system that are compatible with one another and substrates indicated, under conditions of service and application as demonstrated by manufacturer, based on testing and field experience.
 2. For each coat in a paint system, provide products recommended in writing by manufacturers of topcoat for use in paint system and on substrate indicated.
- B. VOC Content for Interior Paints and Coatings:
1. All interior paints and coatings shall comply with the VOC content regulations of the Ozone Transportation Commission (OTC) effective in the State of Rhode Island. For interior paints and coatings applied at Project site, the following VOC limits, exclusive of colorants added to a tint base, when calculated according to 40 CFR 59, Subpart D (EPA Method 24).
 - a. Flat Coatings: 100 g/L.
 - b. Nonflat Coatings: 150 g/L.
 - c. Nonflat-High Gloss Coatings: 250 g/L.
 - d. Primers, sealers and undercoaters: 200 g/L.
 - e. Anti-corrosive and Anti-rust Paints Applied to Ferrous Metals: 250 g/L.
 - f. Floor Coatings: 250 g/L.
- C. Colors: As selected by Owner and as required to match existing.

2.3 INTERIOR PRIMERS

- A. General: Provide tinted primers as required for dark colors.

- B. Interior Plaster Primer: Factory-formulated alkali-resistant acrylic-latex interior primer for interior application (**100 g/L**).
1. Benjamin Moore, Ultra Spec 500 Interior Latex Primer N534: Applied at a dry film thickness of not less than 1.8 mils.
 2. Pittsburgh Paints; 6-2 Speedhide Interior Latex Sealer Quick-Drying: Applied at a dry film thickness of not less than 1.0 mil.
 3. Sherwin-Williams; ProMar 200 Zero VOC Primer B28W2600: Applied at a dry film thickness of not less than 1.5 mils.
- C. Interior Wood Primer for Acrylic-Enamel Finishes: Factory-formulated acrylic-latex-based interior wood primer (**150 g/L**).
1. Benjamin Moore; Fresh Start Multi-Purpose Latex Primer N023: Applied at a dry film thickness of not less than 1.2 mils.
 2. Pittsburgh Paints; 6-855 Interior Latex Enamel Undercoater: Applied at a dry film thickness of not less than 1.2 mils.
 3. Sherwin-Williams; Premium Wall and Wood Primer B28W08111 Series: Applied at a dry film thickness of not less than 1.8 mils.
- D. Interior Metal Primer: Factory-formulated metal primer (**250 g/L**).
1. Benjamin Moore; Super Spec Acrylic Metal Primer No. P04: Applied at a dry film thickness of not less than 1.7 mils.
 2. Pittsburgh Paints; 90-912 Series Pitt-Tech Interior/Exterior Primer/Finish DTM Industrial Enamel: Applied at a dry film thickness of not less than 2.0 mils.
 3. Sherwin-Williams; Pro Industrial Pro-Cryl Universal Acrylic Primer B66 Series: Applied at a dry film thickness of not less than 2.0 mils.

2.4 INTERIOR PAINTS

- A. Interior Low-Luster Acrylic Enamel: Factory-formulated eggshell acrylic-latex interior enamel.
1. Benjamin Moore, Ultra Spec 500 Interior Eggshell N538: Applied at a dry film thickness of not less than 1.8 mils.
 2. Pittsburgh Paints; 9-300 Series Pure Performance Interior Eggshell Latex: Applied at a dry film thickness of not less than 1.5 mils.
 3. Sherwin-Williams; ProMar 200 Zero VOC Interior Latex Egg-Shell Enamel B20-2600 Series: Applied at a dry film thickness of not less than 1.6 mils.
- B. Interior Semi-Gloss Acrylic Enamel for Metal Surfaces: Factory-formulated semi-gloss acrylic interior enamel (**250 g/L**).
1. Benjamin Moore; Ultra Spec HP DTM Acrylic Semi-Gloss Enamel HP29: Applied at a dry film thickness of not less than 1.5 mils.
 2. Pittsburgh Paints; 90-1210 Series Pitt-Tech Plus Interior/Exterior Semi-Gloss DTM Industrial Enamel: Applied at a dry film thickness of not less than 2.0 mils.
 3. Sherwin-Williams; Pro Industrial Acrylic B66-650 Series Semi-Gloss: Applied at a dry film thickness of not less than 2.5 mils.

- C. Interior Acrylic Enamel for Wood Surfaces: Factory-formulated semi-gloss acrylic latex enamel (150 g/L).
1. Benjamin Moore; Advance Waterborne Interior Alkyd Semi-Gloss 793: Applied at a dry film thickness of not less than 1.3 mils.
 2. Pittsburgh Paints; 6-500 Series SpeedHide Interior Semi-Gloss Acrylic Latex: Applied at a dry film thickness of not less than 1.4 mils.
 3. Sherwin-Williams; ProMar 200 Zero VOC Interior Latex Semi-Gloss B31-2600 Series: Applied at a dry film thickness of not less than 1.7 mils.

2.5 TRAFFIC MARKING PAINT

- A. Pavement-Marking Paint: Acrylic traffic-marking paint (150 g/L).
1. Pittsburgh Paints; Zoneline 11-53 Series: Applied at a dry film thickness of not less than 8.6 mils.
 2. Sherwin-Williams; Setfast Acrylic Waterborne Traffic Marking Paint: Applied at a dry film thickness of not less than 8.5 mils.

2.6 INTERIOR WOOD STAINS AND VARNISHES

- A. Interior Wood Stain: Factory-formulated water-based penetrating wood stain for interior application applied at spreading rate recommended by manufacturer (250 g/L).
1. Lenmar; Waterborne Interior Wood Stain 1WB1300.
 2. Pittsburgh Paints; Olympic Premium Interior Oil Based Wood Stain, Tint Base 44500.
 3. Sherwin-Williams; Minwax Wood Finish 250 VOC Stains.
- B. Clear Sanding Sealer: Factory-formulated fast-drying acrylic polyurethane clear wood sealer applied at spreading rate recommended by manufacturer. (350 g/L)
1. Benjamin Moore; Benwood Stays Clear Acrylic Polyurethane Gloss N422.
 2. Pittsburgh Paints; Olympic Premium Interior Water Based Sanding Sealer 41061.
 3. Sherwin-Williams; Wood Classics Waterborne Polyurethane A68 Series (350 g/L OTC)
- C. Interior Polyurethane-Based Clear Varnish: Factory-formulated polyurethane-based clear varnish (350 g/L)
1. Benjamin Moore; Benwood Stays Clear Acrylic Polyurethane Low Lustre N423.
 2. Pittsburgh Paints; Olympic Premium Interior Water Based Polyurethane Clear Satin 42786.
 3. Sherwin-Williams; Wood Classics Waterborne Polyurethane A68 Series

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates and conditions, with Applicator present, for compliance with requirements for maximum moisture content and other conditions affecting performance of work.
- B. Maximum Moisture Content of Substrates: When measured with an electronic moisture meter as follows:
 - 1. Concrete: 12 percent.
 - 2. Wood: 15 percent.
 - 3. Plaster: 12 percent.
- C. Verify suitability of substrates, including surface conditions and compatibility with existing finishes and primers.
- D. Coordination of Work: Review other Sections in which primers are provided to ensure compatibility of the total system for various substrates. On request, furnish information on characteristics of finish materials to ensure use of compatible primers.
 - 1. Notify Architect about anticipated problems when using the materials specified over substrates primed by others.
- E. Begin coating application only after unsatisfactory conditions have been corrected and surfaces are dry.
 - 1. Beginning coating application constitutes Contractor's acceptance of substrates and conditions.

3.2 HISTORIC TREATMENT OF PAINTING, GENERAL

- A. Historic Treatment Appearance Standard: Completed work is to have a uniform appearance as viewed by Architect from building interior at 10 feet away from painted surface.
- B. Execution of the Work: In treating historic items, disturb them as minimally as possible and as follows:
 - 1. Remove failed coatings and corrosion and repaint.
 - 2. Verify that substrate surface conditions are suitable for painting.
 - 3. Allow other trades to repair items in place and retain as much original material as possible before repainting.
 - 4. Reproduce original, historic paint systems where indicated or scheduled.
Install temporary protective measures to protect historic painted surfaces that shall be treated later.

- C. Mechanical Abrasion: Where mechanical abrasion is needed for the work, use only the gentlest mechanical methods, such as scraping and lightly hand sanding, that will not abrade softer substrates, reducing clarity of detail. Do not use abrasive methods such as rotary sanding, rotary wire brushing, or power tools except as indicated as part of the historic treatment program and as approved by Architect.
- D. Heat Processes: Do not use torches, heat guns, or heat plates.

3.3 PREPARATION

- A. General: Use only the gentlest, appropriate method necessary to clean surfaces in preparation for painting. Clean all surfaces, corners, contours, and interstices.
- B. Detergent Cleaning: Wash surfaces by hand using clean rags, sponges, and bristle brushes. Scrub surface with detergent solution and bristle brush until soil is thoroughly dislodged and can be removed by rinsing. Use small brushes to remove soil from joints and crevices. Dip brush in solution often to ensure that adequate fresh detergent is used and that surface remains wet. Rinse with water applied by clean rags or sponges.
- C. Comply with manufacturer's written instructions and recommendations in "MPI Architectural Painting Specification Manual" applicable to substrates indicated.
- D. Remove hardware, plates, machined surfaces, and similar items already in place that are not to be painted. If removal is impractical or impossible because of size or weight of item, provide surface-applied protection before surface preparation and painting.
 - 1. After completing painting operations, use workers skilled in the trades involved to reinstall items that were removed. Remove surface-applied protection if any.
- E. Clean substrates of substances that could impair bond of paints, including dirt, oil, grease, and incompatible paints and encapsulants.
 - 1. Remove incompatible primers and reprime substrate with compatible primers as required to produce paint systems indicated.
- F. Alkalinity: Do not begin application of coatings unless surface alkalinity is within range recommended in writing by paint manufacturer. Conduct alkali testing with litmus paper on exposed plaster, cementitious, and masonry surfaces.
- G. Concrete Substrates: Remove release agents, curing compounds, efflorescence, and chalk. Do not paint surfaces if moisture content or alkalinity of surfaces to be painted exceeds that permitted in manufacturer's written instructions.
- H. Shop-Primed Steel Substrates: Clean field welds, bolted connections, and abraded areas of shop paint, and paint exposed areas with the same material as used for shop priming to comply with SSPC-PA 1 for touching up shop-primed surfaces.
- I. Plaster Substrates: Do not begin paint application until plaster is fully cured and dry.

J. Wood Substrates:

1. Scrape and clean knots, and apply coat of knot sealer before applying primer.
2. Sand surfaces that will be exposed to view, and dust off.
3. Prime edges, ends, faces, undersides, and backsides of wood.
4. After priming, fill holes and imperfections in the finish surfaces with putty or plastic wood filler. Sand smooth when dried.

3.4 APPLICATION

A. Apply paints according to manufacturer's written instructions.

1. Use applicators and techniques suited for paint and substrate indicated.
 2. Paint surfaces behind movable equipment and furniture same as similar exposed surfaces. Before final installation, paint surfaces behind permanently fixed equipment or furniture with prime coat only.
 3. Paint front and backsides of access panels, removable or hinged covers, and similar hinged items to match exposed surfaces.
 4. Do not paint over labels of independent testing agencies or equipment name, identification, performance rating, or nomenclature plates.
 5. Primers specified in painting schedules may be omitted on items that are factory primed or factory finished if acceptable to topcoat manufacturers.
- B. Tint each undercoat a lighter shade to facilitate identification of each coat if multiple coats of same material are to be applied. Tint undercoats to match color of topcoat, but provide sufficient difference in shade of undercoats to distinguish each separate coat.
- C. If undercoats or other conditions show through topcoat, apply additional coats until cured film has a uniform paint finish, color, and appearance.
- D. Apply paints to produce surface films without cloudiness, spotting, holidays, laps, brush marks, roller tracking, runs, sags, ropiness, or other surface imperfections. Cut in sharp lines and color breaks.

3.5 FIELD QUALITY CONTROL

- A. Dry Film Thickness Testing: Owner may engage the services of a qualified testing and inspecting agency to inspect and test paint for dry film thickness.
1. Contractor shall touch up and restore painted surfaces damaged by testing.
 2. If test results show that dry film thickness of applied paint does not comply with paint manufacturer's written recommendations, Contractor shall pay for testing and apply additional coats as needed to provide dry film thickness that complies with paint manufacturer's written recommendations.

3.6 CLEANING AND PROTECTION

- A. At end of each workday, remove rubbish, empty cans, rags, and other discarded materials from Project site.
- B. After completing paint application, clean spattered surfaces. Remove spattered paints by washing, scraping, or other methods. Do not scratch or damage adjacent finished surfaces.
- C. Protect work of other trades against damage from paint application. Correct damage to work of other trades by cleaning, repairing, replacing, and refinishing, as approved by Architect, and leave in an undamaged condition.
- D. At completion of construction activities of other trades, touch up and restore damaged or defaced painted surfaces.

3.7 INTERIOR PAINTING SCHEDULE

- A. Plaster: Provide the following finish systems over interior plaster surfaces:
 - 1. Low-Luster Acrylic-Enamel Finish (Walls): Two finish coats over a primer.
 - a. Primer: Interior gypsum board primer.
 - b. Finish Coats: Interior low-luster acrylic enamel.
- B. Wood: Provide the following paint finish systems over new interior wood surfaces:
 - 1. Gloss Acrylic-Enamel Finish: Two finish coats over a wood primer.
 - a. Primer: Interior wood primer for acrylic-enamel finishes.
 - b. Finish Coats: Interior acrylic enamel for wood surfaces.
- C. Ferrous and Zinc-Coated Metal: Provide the following finish systems over ferrous metal:
 - 1. Semi-Gloss Acrylic-Enamel Finish: Two finish coats over a metal primer.
 - a. Primer: Metal primer, including surfaces with factory prime coat.
 - b. Finish Coats: Interior semi-gloss acrylic enamel for metal surfaces.
- D. Traffic Marking: Provide the following finish systems over concrete slabs indicated to receive traffic (line) marking paint:
 - 1. Traffic Marking Paint: One finish coat.

3.8 INTERIOR STAIN-FINISH WOODWORK SCHEDULE

- A. Stained Woodwork: Provide the following stained finishes over new interior woodwork, stained to match existing.**
 - 1. Stain Satin-Varnish Finish: Two finish coats of alkyd-based clear satin varnish over a sealer coat and interior wood stain. Wipe wood filler before applying stain.**
 - a. Filler Coat: Open-grain wood filler, as required.**
 - b. Stain Coat: Interior wood stain.**
 - c. Sealer Coat: Clear sanding sealer.**
 - d. Finish Coats: Interior polyurethane-based clear satin varnish.**

END OF SECTION 09 9100