Addendum No. 1

For Project No. 300DM-64013-01
INDIANA DUNES STATE PARK
STATE PARK OFFICE REMODEL
Porter County

ISSUED FROM:  Engineering Division Dept. Natural Resources
ISSUE DATE:  August 5, 2021

BID DATE: August 12, 2021

FOR AGENCY:  Department of Natural Resources

The information contained in this Addendum shall become a part of the basic plans and specifications the same as if original incorporated therein.  The original plans and specifications shall remain in their entirety, except as modified by this Addendum. The items herein shall supersede information in the specifications and on the plans.

ITEM No. 1: GENERAL

A. Attached, please find a copy of the pre-bid meeting sign-in sheet and pre-bid meeting agenda with a summary of Activities, Discussion, and Clarifications.

ITEM No. 2: CONSTRUCTION PLANS

A. REVISION: Drawing C-1 as follows:
   Extend Construction Limits for work involving new sewer connection to existing sewer to the middle of the asphalt road in front of the building.

B. REVISION: Drawing D-1 as follows:
   Demolition/Removal Notes: Miscellaneous walls in the attic needed to be removed to permit installation of HVAC and Communication Equipment Room 202 will be removed by DNR personnel in November.

C. REVISION: Drawing A-1 & E-2 as follows:
   Remove from scope of work constructing walls and electrical receptacle, light and switch for new IT Room in the attic (Conditioned Communication Equipment # 202). DNR personnel will build the IT Room and install a new circuit down to existing panel prior to 09/06/2021. DNR will also provide a temporary / portable AC unit. The Contractor will be responsible for the permanent air conditioning system.
D. REVISION: Drawing P-1 & P-2 as follow:
New outdoor drinking fountain shown on plumbing sheet P-1 and identified as fixture P-6 shall be installed approximately 4 feet West of the building and then 8 feet to the South, after completion of exterior sitework. Allow for a total run of piping outside the building of 12 feet.

ITEM No. 3: SPECIFICATIONS

A. REVISION: Section 087100 as follow:

**SET #05A – Visitor Info / Retail / Office**
**Door: 105A**

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<tr>
<td>1 Wall Stop</td>
<td>232W</td>
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<td>HA</td>
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<tr>
<td>3 Door Silencers</td>
<td>307D</td>
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Notes:
1. Closers shall have parallel arms.

**SET #05B – Visitor Info/ Retail / Office**
**Door: 105B**

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Notes:
1. Closers shall have parallel arms.

ITEM No. 4: BIDDING QUESTIONS

1. **Question:** Are Davis-Bacon wage scale rates required on the Indiana Dunes Park Office Remodeling Job?
   **Answer:** Davis-Bacon wage scale rates are not required.

2. **Question:** Should we use the attached provided bid bond form stating Public Works Department of Administration, State of Indiana as obligee or should we use the standard AIA form stating Indiana Department of Natural Resources Division of State Parks as obligee?
ANSWER: Bid Bond Form 15A included in the Project Manual shall be used. Bidders shall comply with the Instructions to Bidders DAPW 30.

3. Question: Is the General Contractor required to provide an office trailer?
   ANSWER: No. An office trailer is not required.

4. Question: Is the General Contractor responsible for temporary heat throughout the duration of the project?
   ANSWER: Yes. The General Contractor may use Indiana Dunes State Park utilities for work related to the project. The new heating and cooling system shall not be used until all dust producing activities are complete.

5. Question: Please clarify whether the General Contractor is responsible for removing drywall/paneling and window trim at the perimeter wall location?
   ANSWER: Yes. The General Contractor is responsible for this work. Reference drawing D-1 Demolition/Removal Note #7.

6. Question: What is the drywall/paneling attached to at the perimeter wall locations?
   ANSWER: Furring.

7. Question: Could you please R.F.I. if there will be a water meter & RPZ required on the water service? Or is it located somewhere else on the property? Also, it looks like more concrete will need to be removed to get the new water service into the building and the water line for the yard hydrant out of the building.
   ANSWER: A water meter and RPZ are not required.

8. Question: Is the only gas in the building for the furnace on the 1st floor? If so, can the gas pipe be run overhead inside the building to the furnace?
   ANSWER: No, the piping shall be installed as shown/described. The new furnace shall be located in the attic.

9. Question: Just confirming that looking at the water isometric on P-1 that some of the water lines are looped underground is correct? Will ½” thick Armaflex pipe insulation be acceptable to insulate the piping underground? Or can all water piping be run overhead?
   ANSWER: Yes, for buried piping. Water piping shall not be run overhead.

10. Clarifications:
    (1.) Air conditioning outdoor condensing unit and indoor furnace are to be removed by the contractor and turned over to the Owner.
    (2.) Domestic cold water piping serving flush valves shall be protected by Zurn Model Z1700 Shoktrol Water Hammer Arrestors installed in accessible locations for maintenance and future replacement. Provide access doors as required.
11. **Question:** Please ask architect how the outside air duct to the furnace in attic is terminated at exterior of building.

12. **Answer:** The OA duct terminates 78” above the attic floor in one side of the existing abandoned chimney.

**ITEM No. 5: ALTERNATE #1**

A. Remove all existing casement windows and install new custom casement wood-aluminum clad windows in each opening.

B. See specifications Section 010300 and Section 085200 for detailed descriptions.

END OF ADDENDUM

State Form 21208R4  DAPW-118
EXHIBIT #1

PRE-BID MEETING

STATE PARK OFFICE REMODELING
INDIANA DUNES STATE PARK
DEPARTMENT OF NATURAL RESOURCES STATE OF INDIANA
Project No. IDOA 300DM-64013-01

1600 N. 25 E.
CHESTERTON, IN 46304

Date: July 29, 2021 @ 11:00 am local time
Location: Project Site

A. Sign-in-sheet & Introduction

B. Access to site:
   David Snodgrass 219-926-1952 dsnodgrass@dnr.in.gov
   Property Manager, Indiana Dunes State Park

   Jake McEvoy 219-926-1952 JaMcevoy@dnr.IN.gov
   Assistant Property Manager, Indiana Dunes State Park

C. Bidding Document Questions:

   Project Manager/Architectural - Michael E Johnson 317-233-1101 MicJohnson1@dnr.in.gov
   Architectural – Bogusia Dabrowska 317-232-4154 bdabrowska@dnr.in.gov
   Mechanical/Electrical/Plumbing - Kent H Hopper 317-232-0481 KHopper@dnr.in.gov
   New Water Line – Michael Mathias 317-232-4155 mmathias@dnr.in.gov

   Code Administrator / Construction Contact:
   Randy Craven 317-605-1983 rcraven@dnr.in.gov

   Division of Engineering IDNR
   402 West Washington Street, W299
   Indianapolis, Indiana 46204

D. Bidding and Contract Requirements:

   1. Project is estimated at $150,000 or above.
   2. Bids shall be taken from Prime Contractors pre-qualified by the Public Works
      Certification Board in the following classification/s: 1542.01 Institutional Buildings or
      1542.02 Commercial Buildings or 1542.04 Additions, Alterations, Remodeling and
Repairs. Prequalification by the Certification Board is required for this project prior to bid opening.

3. Per the Instructions to Bidders, Work By Contractor, “The Contractor shall perform a minimum of 15% of the value of the work…”

4. Reference Bidding and Contract Requirements for detailed instructions.

5. Links:
   https://www.in.gov/idoa/state-property-and-facilities/public-works/certification-board/contractors-and-sub-contractors
   
   https://www.in.gov/dnr/engineering/bidding/
   Contractor can subscribe to be notified when engineering bidding page is updated.

E. Schedule

- Bid Due Date is **August 12, 2021 @ 1:31 pm Indianapolis Time** (bids cannot be e-mailed)
- The Contractor shall commence work within 10 days after the date of execution of the Contract.
- Work shall be completed within **180 days** after the date of the Contract.

**CHANGE FROM BIDDING DOCUMENTS (See Section 010100 1.02 B.1.a):**
DNR personnel will build the new IT room in the attic and install a new circuit down to the existing electrical panel prior to 09/06/2021. DNR will also provide a temporary / portable AC unit. The Contractor will be responsible for the permanent air conditioning system.

- Tentative Site Access and Project Schedule:
  a. Week of 09/06/2021  User Group Moveout
  b. Week of 09/06/2021  Begin & Complete IT Fiber Optic work in Attic
  c. Week of 09/13/2021  Begin & Complete Asbestos Abetment
  d. Week of 09/13/2021  Site available to begin utility installation
  e. Week of 09/20/2021  Building available for remodeling

F. Work by others:

1. Relocation of fiber optic services from the first floor to the attic. This is a critical infrastructure system that feeds the entire State Park.
   a. QPA Vendor: C-CAT
   b. Address: 1726 West 15th Street, Indianapolis, IN 46202
   Contact: Charlie Whitlow cwhitlow@c-cat.com
   Phone: Office: 317-568-2899 x102; Cell: 317-696-7574

2. Asbestos abatement.
   a. Vendor: Environment Assurance Co, Inc
   Contact: Mike Kirkman mkirkman@eaciusa.com
   Phone: 317-636-8500
G. **Scope of work:**

1. This work consists of the Base Bid only. For description of work see specification Section 010100 – GENERAL REQUIREMENTS. The Base Bid includes bringing new water line to building and installing new connection line to existing sewer line, located under asphalt pavement. Patching of existing asphalt pavement and concrete is required. For construction limits see drawing C-1.
2. The sidewalks, parking and ADA entrances in front of the new doors are not in scope of the work. This work may occur concurrently with the remodeling work as a change order or by a separate prime contractor.

H. **Document review:**

- Drawings Part B
- Specifications (Technical) Part C

I. **Remediation Allowance** of $5,000.00 shall be included in the Base Bid as a separate item in the Schedule of Values adding up to the total bid price. If any portion of the remediation allowance is not used during the project, that portion will revert to the owner and will not be included in the contractor’s final payment.

J. **Site Restrictions:**

Provide temporary toilets for use by contractor. Discuss location of temporary office trailer and utilities, Public Parking, Office Parking and Contractor staging areas.

K. **Emphasized details and materials:**

See following items:
- Exterior walls
- Interior walls
- Thermal Insulation Section 072100
- Foamed-In-Place Insulation Section 072119
- Storefront
- Existing windows

L. **Substitutions**

- Section 08113 Hollow Metal Doors and Frames
  Add to accepted Manufacturer’s: **Mesker Commercial Hollow Metal Doors & Frames.**

M. **Submitted questions & answers.**

Q1. Will there be a water meter & RPZ required on the water service? Or is it located somewhere else on the property? Also, it looks like more concrete will need to be removed to get the new water service into the building and the water line for the yard hydrant out of the building.
A1. A water meter and RPZ is not required.

Q2. Is the only gas in the building for the furnace on the 1st floor? If so, can the gas pipe be run overhead inside the building to the furnace?
A2. No – we want the piping installed as shown / described. The furnace will be located in the attic.

Q3. Just confirming that looking at the water isometric on P-1 that some of the water lines are looped underground is correct? Will 1/2" thick armaflex pipe insulation be acceptable to insulate the piping underground?
A3. For buried piping: insulation installed in compliance with the Indiana Energy Code and manufacturer’s recommendations is acceptable.

Q4. Per the note on A-2, the water heater shelf will be installed by the G.C. & the Plumbing Contractor will supply the pan correct?
A4. It can be. This issue is between the contractor and the equipment supplier.

N. Contractor Questions
   • Site tour and walk-through of 1st floor and attic with Contractors
   • Contractor Questions

Summary of Activities, Discussion and Clarifications:

1. The attendees were asked to sign in. Please reference the sign-in sheet for those in attendance.
2. Michael Johnson thanked those in attendance for coming to the pre-bid meeting and introduced David Snodgrass and Jake McEvoy, from the Indiana Department of Natural Resources Division of State Parks, and Bogusia Dabrowska, Kent Hopper, and Randy Craven from the Division of Engineering.
3. The contents of the Agenda were reviewed and discussed.
4. Three (3) documents are currently available for download from the DNR Engineering website and include the Notice to Bidders, Drawings, and Specifications.
5. Additional information related to Bidder ID numbers may be found on the following website pages:
   Bidder Profile Registration: https://www.in.gov/idoa/procurement/supplier-resource-center/requirements-to-do-business-with-the-state/bidder-profile-registration/
   Supplier Portal Help Center: https://www.in.gov/idoa/procurement/procurement-training/supplier-portal-help-center/
6. Prequalification is not required by subcontractors whose contract amount will be less than $150,000.
7. The tentative project schedule was discussed. If the project could be completed by April 1, 2022, that would be beneficial.
8. Electronic bid submission is not acceptable.
9. Michael Johnson apologized to those who believed that the pre-bid meeting was scheduled for 7/19/21.
10. Kent Hopper noted the critical nature of maintaining electrical service to the IT equipment at all times.
11. Bogusia confirmed with those in attendance that their drawings legibly printed.
12. Bogusia noted the use of three concrete mix designs, and discussed the exterior concrete window curbs, use of WWF in the concrete floor, and use of closed cell building insulation.
13. Parking, dumpster, and staging areas shall be coordinated with the Property Manager.
14. There are no short cuts to bypass any entrance road traffic conditions, but the vehicle load will decrease significantly after Labor Day.
15. Drilling into the attic floor joists shall not occur without special permission from Randy Craven; however, the furring space between the gypsum board ceiling and the bottom of joist may be used for conduit.
EXHIBIT #2

PRE-BID MEETING

STATE PARK OFFICE REMODELING
INDIANA DUNES STATE PARK
DEPARTMENT OF NATURAL RESOURCES STATE OF INDIANA
Project No: IDOA 300DM-64013-01
1600 N 25 E
CHESTERTON, IN 46304

Date: **July 29, 2021** @ 11:00 am local time

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<td>Todd March</td>
<td>Brown-Long-Brown</td>
<td><a href="mailto:Todd@669c.com">Todd@669c.com</a></td>
<td>574-862-2171</td>
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<td>317-233-1101</td>
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<td>Jack Johnson</td>
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<td>219-808-0081</td>
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<td>Jamie Miller</td>
<td>D.A. Dodd</td>
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<td>574-782-8314</td>
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<td>219-282-9062</td>
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<td>Jacob Miller</td>
<td>D.A. Doolittle</td>
<td><a href="mailto:Jacob.miller@doolittle.com">Jacob.miller@doolittle.com</a></td>
<td>219-778-4302</td>
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<tr>
<td>Brian Fisher</td>
<td>Gibson-Linzi (5C)</td>
<td><a href="mailto:bpreke@gl.pcues.com">bpreke@gl.pcues.com</a></td>
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<td>Chris Vann</td>
<td>Encorpfireplace</td>
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<td>219-746-5483</td>
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<td>Hasse</td>
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</tbody>
</table>
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DAVE SONES  SARGENT ELECTRIC  dsones@sargentelectric.com  219-902-6359  574-968-6151

Ted Beglinger  Michiana Contracting  tredinger@michianacontracting.com

Joa Gutierrez  The Pangae Corporation  jgutierrez@pangaje.com  (219) 545-1026

Jeremy Hedrick  Michiana Contracting  jhedrick@michianacontracting.com  574-786-9613

Eddie Spaice Larson- Danielson  ess@klekonstruction.com  219-575-6040

PETER BLACKUT  CARP  PETER.BLACKUT@CARP.COM  219-712-2787
EXHIBIT #2

PRE-BID MEETING

STATE PARK OFFICE REMODELING
INDIANA DUNES STATE PARK
DEPARTMENT OF NATURAL RESOURCES STATE OF INDIANA
Project No: IDOA 300DM-64013-01
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<tr>
<td>1 LESTURBIN</td>
<td>STI HEATING &amp; AIR LESSIN <a href="mailto:INFO@GMAIL.COM">INFO@GMAIL.COM</a></td>
<td></td>
<td>219.513.4809</td>
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<td>2 Josh Phillips</td>
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<td>269.930.3755</td>
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<td>3 Kent Hopper</td>
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<td>4 Bogusia Dabrowska</td>
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<td>6 Mickey Rea</td>
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<td>9 Randy Craven</td>
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SECTION 010300 - ALTERNATES
PART 1 - GENERAL

1.01 DESCRIPTION:

A. The bids for the alternate described herein are required to obtain information necessary for setting the scope of the project in its entirety.

B. Add Alternates herein described are not to be included in the Base Bid Scope of Work.

C. Deduct Alternates herein described are to be included in the Base Bid Scope of Work and deducted from the project as described.

D. Bidder shall provide a response to each alternate specified. The response must indicate the amount to ADD to the Base Bid, DEDUCT from the Base Bid or that there is NO CHANGE. Substitution of materials or methods of work other than as called for in the documents, i.e. "voluntary alternates" shall be cause for rejections of bid as non-conforming. Refer to Page 2, DAPW 13 and Article 12(D), Instructions to Bidders, DAPW 29 or DAPW 30.

E. All Requirements of the specification shall govern the work of this section. This section describes the changes to be made under each alternate.

1.02 ADD ALTERNATES:

A. **Alternate Number 1**: REMOVE ALL EXISTING CASEMENT WINDOWS (single and double both in attic and on ground floor (2 single and 13 double casement windows, verify dimensions) AND INSTALL NEW CUSTOM (single and double) CASEMENT WOOD-ALUMINUM CLAD WINDOWS in each opening to match existing operation.

B. **See attached specifications Section 085200**.

C. This work includes; exterior trim work, painting exterior trim (primer and two coats of paint), painting windows interior with one coat of paint, interior Jamb detail 11/A6 stays the same as in base bid.

D. Below listed dimension of the brick opening are for the bidding purposes and shall be verify during construction.

   13 brick openings 48”x50-3/4”
   2 brick openings 25”x50”

E. Contractor shall subtract from Alternate Number 1 price of the one new window (double casement wood) that is include in the Base Bid.

1.03 CONTRACT AWARD:

A. Contract award shall be based on the Base Bid or combination of the Base Bid and Alternate(s) chosen to be accepted by the State.

END OF SECTION
SECTION 085200 - WOOD WINDOWS

PART 1 - GENERAL

1.1 SUMMARY

A. This Section includes:
   2. The custom windows shall be produced to dimension of the existing masonry (brick) openings.
   3. Approximate brick openings (for bidding purposes) are: 13 brick openings 48”x50-3/4”, 2 brick openings 25”x50”.
   4. Contractor is responsible for verifying approximate brick openings before ordering windows.

1.2 SUBMITTALS

A. Product Data: Include construction details, material descriptions, fabrication methods, dimensions of individual components and profiles, hardware, finishes, and operating instructions for each type of wood window indicated.

B. Shop Drawings: Include plans, elevations, sections, details, hardware, attachments to other work, operational clearances, installation details, glazing technical data and windows schedule.

C. Samples:
   1. 3/4-inch Low-E insulating-glass with UV protection, 1sq. ft.

1.3 QUALITY ASSURANCE

A. Installer Qualifications: An installer acceptable to wood window manufacturer for installation of units required for this Project.

B. Manufacturer Qualifications: A manufacturer capable of fabricating wood windows that meet or exceed performance requirements indicated and of documenting this performance by inclusion in lists and by labels, test reports, and calculations and who is certified for chain of custody by an FSC-accredited certification body.

C. Source Limitations: Obtain wood windows through one source from a single manufacturer.
1.4 PROJECT CONDITIONS

A. Field Measurements: Verify wood window openings by field measurements before fabrication and indicate measurements on Shop Drawings.

1.5 WARRANTY

A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace wood windows that fail in materials or workmanship within specified warranty period.

1. Failures include, but are not limited to, the following:

   a. Failure to meet performance requirements.
   b. Structural failures including excessive deflection, water leakage, air infiltration, or condensation.
   c. Faulty operation of movable sash and hardware.
   d. Deterioration of wood, metals, vinyl, other materials, and finishes beyond normal weathering.
   e. Failure of insulating glass.

2. Warranty Period:

   a. Window: Three years from date of Substantial Completion.
   b. Glazing: 10 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

   a. Marvin Windows and Doors.
   b. Weather Shield Mfg., Inc.
   c. Pella Corporation.

2.2 MATERIALS

A. Wood: Clear ponderosa pine or another suitable fine-grained lumber; kiln dried to a moisture content of 6 to 12 percent at time of fabrication; free of visible finger joints, blue stain, knots, pitch pockets, and surface checks larger than 1/32 inch deep by 2 inches wide; water-repellent preservative treated.

B. Aluminum Extrusions and Rolled Aluminum for Cladding: Manufacturer's standard formed sheet or extruded-aluminum cladding, mechanically bonded to exterior exposed wood members. Provide aluminum alloy and temper recommended by wood window manufacturer for strength, corrosion resistance, and application of required finish, but not less than 22,000-psi ultimate tensile strength, and not less than 16,000-psi minimum yield strength.
1. Color: As selected by Architect from manufacturer's standard colors.

C. Glazing Stops: Material and finish to match frame members.

D. Fasteners: Nonmagnetic stainless steel, epoxy adhesive, or other materials warranted by manufacturer to be noncorrosive and compatible with wood window members, cladding, trim, hardware, anchors, and other components.

1. Exposed Fasteners: Unless unavoidable for applying hardware, do not use exposed fasteners. For application of hardware, use fasteners that match finish of member or hardware being fastened, as appropriate.

E. Anchors, Clips, and Accessories: nonmagnetic stainless steel, or zinc-coated steel or iron complying with ASTM B 633 for SC 3 severe service conditions; provide sufficient strength to withstand design pressure indicated.

F. Compression-Type Weather Stripping: Provide compressible weather stripping designed for permanently resilient sealing under bumper or wiper action and for complete concealment when wood window is closed.

1. Weather-Stripping Material: Manufacturer's standard system and materials complying with AAMA/WDMA 101/I.S.2/NAFS.


1. Weather Seals: Provide weather stripping with integral barrier fin or fins of semirigid, polypropylene sheet or polypropylene-coated material. Comply with AAMA 701/702.

2.3 WINDOWS

A. Window Type: Double Casement, wood, aluminum clad exterior, operable.

B. Window Type: Single Casement, wood, aluminum clad exterior, operable.

C. Condensation-Resistance Factor (CRF): Provide wood windows tested for thermal performance according to AAMA 1503, showing a CRF of 52.

D. U-Factor: 0.33 Btu/sq. ft. x h x deg F or less.

E. Solar Heat-Gain Coefficient (SHGC): Provide wood windows with a whole-window SHGC maximum of 0.55 determined according to NFRC 200 procedures.

2.4 GLAZING
A. Glass: Clear, 3/4-inch Low-E insulating-glass units - all windows except rooms listed in 2.4 B.


C. Glazing System: Manufacturer's standard factory-glazing system that produces weathertight seal and complies with requirements for UV protection.

2.5 MISCELLANEOUS

A. 2-1/2 inches Brickmould, 3-1/2 inches Flat Casing, 1-7/8 inches Subsill.

B. Field Paint (primer and 2 coats Brickmould and related trims/sills).

2.7 HARDWARE

C. General: Provide manufacturer's standard hardware complying with AAMA 907, or other corrosion-resistant material compatible with wood and aluminum cladding; designed to smoothly operate, tightly close, and securely lock wood windows, and sized to accommodate sash weight and dimensions. Do not use aluminum in frictional contact with other metals.

D. Locks and Latches: Manufacturer standard.
   1. Casement windows: Sure Lock with Unison Lock System.

E. Architect Series Stainless Steel Operating Arm and Hinges.
   1. Locking mechanism and handles for manual operation.
   2. Friction Shoes: Provide friction shoes of nylon or other nonabrasive, nonstaining, noncorrosive, durable material.

2.8 INSECT SCREENS

A. Casement: Vivid View high-transparency full-screen.

2.9 FABRICATION

A. Fabricate wood windows in sizes verified by Contractor. Include a complete system for assembling components and anchoring windows. Include 3-1/2 inches brickmould (or flat casing, see drawings), subsill to fit the opening.

B. Fabricate wood windows that are reglazable without dismantling sash or ventilator framing.

C. Weather Stripping: Provide full-perimeter weather stripping for each operable sash and ventilator, unless otherwise indicated.

D. Factory-Glazed Fabrication: Comply with requirements in AAMA/WDMA 101/1.S.2/NAFS.
2.10 WOOD FINISHES

A. Factory-Finished Windows: Manufacturer's standard factory pre-finished white on interior.

B. Field Paint (1 coat) interior of window.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine openings, substrates, structural support, anchorage, and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of work. Verify rough opening dimensions, levelness of sill plate, and operational clearances. Examine wall flashings, vapor retarders, water and weather barriers, and other built-in components to ensure a coordinated, weathertight window installation.

1. Masonry Surfaces: Visibly dry and free of excess mortar, sand, and other construction debris.
2. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

A. Comply with Drawings, Shop Drawings, and manufacturer's written instructions for installing windows, hardware, accessories, and other components.

B. Install windows level, plumb, square, true to line, without distortion or impeding thermal movement, anchored securely in place to structural support, and in proper relation to wall flashing and other adjacent construction.

C. Set sill members in bed of sealant or with gaskets, as indicated, for weathertight construction.

D. Separate aluminum and other corrodible surfaces from sources of corrosion or electrolytic action at points of contact with other materials.

3.3 ADJUSTING, CLEANING, AND PROTECTION

A. Adjust operating sashes and ventilators, screens, hardware, and accessories for a tight fit at contact points and weather stripping for smooth operation and weathertight closure. Lubricate hardware and moving parts. Clean exposed surfaces immediately after installing windows.

B. Clean factory-glazed glass immediately after installing windows.

C. Remove and replace glass that has been broken, chipped, cracked, abraded, or damaged during construction period.

D. Protect window surfaces from contact with contaminating substances resulting from construction operations. In addition, monitor window surfaces adjacent to and below exterior concrete and masonry surfaces during construction for presence of dirt, scum, alkaline
deposits, stains, or other contaminants. If contaminating substances do contact window surfaces, remove contaminants immediately according to manufacturer's written recommendations.

END OF SECTION 085200