

architecture engineering planning

ADDENDUM No. 7

Date: March 21, 2025

Project: New Headquarters Building Inland Fisheries and Wildlife Augusta, Maine

This addendum is issued prior to receipt of the bids and does hereby become a part of the contract documents, and in case of conflict, it shall supersede original project manual and drawings.

Each bidder shall be responsible for issuing information contained herein to sub-contractors and suppliers to ensure that their proposal covers all work required by the contract documents including this addendum.

GENERAL

Architectural

- 1. Q. Reference Spec 087100, Sheet AE601. Door schedule indicates "Hardware Set 7A" but no hardware set is provided in spec 087100. Please advise which hardware set to use for these openings.
 - A. See revision to section 087100 with HW-7A
- Q. Who is responsible to remove and dispose of owner's furniture that is left in the building?
 A. The contractor is responsible to dispose of any remaining furniture in the building.
- 3. Q. Will moisture mitigation coatings be required for slabs with high relative humidity? If so we recommend an allowance be carried in the bid.
 - A. An allowance has been added to the project, see specification section 012100 and updated bid form.
- 4. Q. 102800 This section references "shower seats" that are to be installed. Please provide specifics as there are none listed.
 - A. Shower seats are integral to shower unit. See revised specification issued in this addendum.
- 5. Q. EP-1 in the specs and finish schedule states Dur-A-Flex Accelera HQ. Accelera HQ is a system with a decorative quartz aggregate, yet in the spec it states micro chip, on the finish schedule under "Manufacturer/Model Type" it says Accelera HQ Micro Chip, but under the "color & finish" section of the finish schedule is shows Q28-21 which is a decorative quartz aggregate contradicting one another. Could you please clarify?
 - A. EP-1 should be Accelera HQ color Q28-21 which is a decorative quartz.
- Q. Please provide project's LEED checklist, referenced in 1.1-A-3.
 A. See attached checklist.

- 7. Q. Drawing AE120 lists Guardian CB-18 Roof Anchor Posts in the Roof Legend but are not shown anywhere on plan. Please clarify.
 - A. 5 Posts are to be provided, locations confirmed during submittal review of the Roof Top equipment maintenance zones.
- 8. Q. Will a specification be issues or more details on the Spandrel Panels required in CW frames C2, C3 and Fire Rated frame C4? See detail 2D/AE621.
 - A. See specification section 084413, 2.3, E.
- 9. Q. I would like to know if you would accept an approved equal to the basis of design (Dur-a-Flex) system from Dex-o-Tex.
 - A. Yes, provided the system is able to meet the requirements of the specifications.
- 10. Q. Is the contractor responsible for asbestos abatement and removal?
 - A. The contractor is responsible for the abatement and removal of hazardous materials outlined in the testing report included in the project specifications.
- 11. Q. 8/AE503, An exterior finish "Thinset Brick Veneer" is called out but no specification given. Please provide.
 - A. See revised specification issued in this addendum.
- 12. Q. On the signage schedule, signage Types H, J, K, L, M, and N are not included. Could you please provide the information on the schedule where this signages are required?
 - A. Type H: Locate by elevator in corridors 104, 159, 200, 271, and 300 Type J: Locate by elevator in corridors 104, 159, 200, 271, and 300 Type K: Locate on each floor of stair towers S1, S2, S3 Type L: Locate in Lobby 100 Type M: Locate in corridor 104, 200 and 300 Type N: Locate in Room 102A
- 13. Q. The original plans called for epoxy coatings and sealed concrete on the basement floors in rooms 002, 003, 004, 005, 101A, 101B and 101C, but the revised room finished schedule now has the flooring finishes for those areas as blank. Please clarify
 - A. Basement floors to be concrete floor finish. There are no 101A, 101B and 101C, but assuming this is referring to 102A, 102B and 102C, which are to have CPTT-2 and CPTT-3.
- 14. Q. Please specify material and finish of transom insert above Door E05 & E06.
 - A. Transom insert to be PVC panel. See revised detail on AE404.
- Q. On addendum #3, question 54 includes rooms with Lab Case but excludes Room 161 with detail 5/AE580. Please clarify if Room 161 requires a Lab Case.
 - A. Yes, this room has upper cabinets that are lab casework.
- 16. Q. Could you please provide specification section for Rubber Sheet Flooring? Thank youA. There is no rubber sheet flooring in the project.
- 17. Q. Please provide a Spec for transaction window BL1 on AE620 and AE402, particularly the glazing and amplified speak-thru.
 - A. Specification section 085653 Security Windows issued in this addendum.

- 18. Q. Specification section 09 54 26 Suspended Wood Ceiling Part 2. Section 2.2 Specify Armstrong's "Wood Works" Linear Solid Wood Panel System. Would Madrid wood Linear Linear and Tongue and Groove Acoustical Wood Madrid Acoustical be a comparable product?
 A. Alternates will be considered if they meet the specification.
- 19. Q. Architectural Q/A number 57 confirms keynotes 10 and 33 are to be plam. Spec section 2.6 B has product information for stainless steel custodial utility shelves. Please confirm these keynotes are not this specific shelving. It would make sense for it to be in room 166 CUST, but it is also noted in 169 STORAGE. If neither of these are the stainless steel custodial utility shelves, then where are these located?
 - A. Keynote number 10 in room 166 is the stainless steel shelf model number WS-12-36. All the rest of the shelves are the keynote.
- 20. Q. Is the package pass thru door contractor provided? If so, please provide specifics.
 - A. Yes, see specification section 131000 Architectural Assemblies issued with this addendum.
- 21. Q. The specified RedHead wader hangers hold a single unit. It appears that each hanger shown on AE741 holds several units. Please advise.
 - A. Hangers to be RedHead wader hangers that each hold a single unit, there will be 16 units. See revised AE741 issued with this addendum.
- 22. Q. Barn, 3/AE120 and 6/AE501: There is an AVB membrane, called for under the insulation, please provide which product should be used here.
 - A. Vapor barrier membrane, see specification section 072713-Modified Bituminous Sheet Air Barriers and will be terminated with the vertical A/V Barrier used on the walls.
- 23. Q. Please give dimensions for AWP-1 and the vinyl wallpaper. The Wall Coverings spec states the width of the wallpaper is 54 inches, but considering the height of 74" looks to be a smaller distance than the width, this would not make sense. Please advise.
 - A. AWP-1 panels in ROOMS 102A, 102B, and 102C size 4' high by 7' wide. AWP-1 panels in ROOM 100 size 5' high by approximately 6'-3 ½" VIF for 2 equal panels between columns. The wallpaper is 54" wide and can will be printed in 2 pieces and seamed for each location.
- 24. Q. The RFI responses in Addendum 5 stated the General Contractor is responsible to maintain all insurance for the project, including property insurance on the Owner's facility where the work will occur. The only way for the Contractor to obtain insurance on the facility where the work will occur is through the builder's risk policy. This is because all GL policies exclude coverage for property of others in the care, custody and control of the contractor. Please provide a value for the exterior walls and roof structure that will remain in place so that Contractor can insure accordingly. Alternatively, The State of Maine could maintain property insurance on the facility where the work will occur (exterior walls and roof structure) and the Owner and Contractor can agree to waive all rights against each other for losses and damages covered by such policy. Please confirm how we should proceed.
 - A. The existing CETA building was valued at \$520,000 in 2022 for State insurance purposes. We do not have a value limited to just the exterior walls and roof structure. The State will not be maintaining coverage following the start of construction and these requirements will shift to the General Contractor.
- 25. Q. Corridor 271 states LVT flooring but is drawn as the sealed concrete. Please advise.A. Corridor 271 to have LVT.
- 26. Q. Canteen 211 states LVT flooring but is drawn as CPTT-1. Please advise.
 - A. Canteen 211 to have LVT flooring.

- 27. Q. The floor finish plans show the stairs to receive walk off mats and rubber flooring. Please confirm RUB is what is mentioned in spec 096513 as ST-1. Please confirm all steps and landings are to receive this tread and landing tiles and that the base of stairs is to receive the walk off mat only.
 - A. Yes, RUB is ST-1. Stair towers will have walk of mat at the entry level only and rubber tile at the landings.
- 28. Q. The details on SB 501 call for the 4" insulation to extend from edge of slab inside 2', and then 2" insulation the remainder of the slab, but the details on AE 506 call for the 4" to extend 36" in from edge of slab, which is correct?
 - A. Insulation should be 4" and extend 36" from edge of slab.
- 29. Q. Please confirm it is acceptable to use two layers of 2" with staggered joints to achieve the 4" desired.
 - A. Yes, this is acceptable.
- 30. Q. Are E05and E06 door transoms part of the Marvin Window package?
 - A. These are to be PVC panel, see revised details on AE404.
- 31. Q. AE601, Please confirm door frame type 7 head, jamb, and sill details.
 - A. Head detail: 1C/AE630, Jamb detail: 1D/AE630, sill detail: 1C/AE630.
- 32. Q. Barn, AE620, Detail #1 shows a 1x pt casing at the head trim. Detail #2 does not show casing at the jamb casing. Please confirm if 1x casing is to be included for head, side, and apron casing.A. Yes, see revised details on AE620 issued in addendum No. 6.
- 33. Q. Part 1 of the spec says there is a roof hatch specified, but nothing further is mention in this spec, please provide B.O.D, and acceptable manufacturers.
 - A. See revised Section 077200 Roof Accessories in this addendum.
- 34. Q. 072713-1.2 and 072726, Both specs refer to spec section 061613.53 "Insulating Air & Moisture Resistant Sheathing, that spec section is not found in our specs.
 - A. Specification 061613.53 is not used. Wall sheathing is all specified in section "061600 Sheathing"
- 35. Q. Both specs reference single installer, typically we see the trades doing their own penetrations as it makes it very difficult for a GC to account for all penetrations with any accuracy. Having the subs do their own firestopping will keep the costs down in lieu of a single contractor doing the fire stopping.
 - A. Provide a single FM Global approved installer for all penetrations as indicated in the specifications.
- 36. Q. The D demolition drawings do not show exterior masonry walls being removed. Drawings SF101 thru SF104 and SF205 show new masonry walls. Please confirm demo is required for four large sections of masonry on the existing CETA building.
 - A. See keynote 3 on D-101 and D-201 for extent of wall demo.
- 37. Q. Louvers are scheduled on drawing M-602. They are specified in section 089119 Fixed Louvers. They are not specified in the mechanical specifications. Will the louvers be provided and installed by section 089119?
 - A. The louvers scheduled on drawing M-602 are specified in 089119 Fixed Louvers. The technical requirements listed on the schedule on M-602 will govern.

- 38. Q. Spec calls for 60 PSI XPS insulation, given the use of this building please confirm 60 PSI is desired, 25 PSI is typical especially in vertical applications. It is much more expensive to provide 60 PSI.
 - A. 25 PSI will be acceptable at all locations except for the under-slab insulation at the barn building, this should remain 60 PSI.

Mechanical

 Condensate drain piping for the heat pumps and air conditioning units are not shown on the drawings. Provide 750-ft of insulated 1" PVC drain piping in the headquarters building, and 50-ft in the barn.

Electrical

- Q: I see in Addendum 5 you want us to carry cable tray. Can you please clarify what kind you want.
 A: Refer to specification section 260536 for cable trays.
- 2. Q: Detail 4 on EL701 is called out for shutdown of lights by bypass relay on alarm. I have looked over all of the lighting drawings and lighting legend and see nothing regarding these. I will need a quantity and it is specified to show these on the drawing, so will need locations. With three floors, basement and attic there are probably quite a few.

A: The intention is to have a relay for each zone or area controller. Refer to lighting relay bypass diagram.

- Q: What size is the ATS?
 A: Refer to drawing EP501
- 4. Q: Please advise if you want horn/strobes or speaker/strobes, the drawings say one thing and the specs say another.

A: Refer to previous Addendum responses. Project require horns/strobes.

SPECIFICATIONS

- 1. **DELETE** Section 00 41 13 and **REPLACE** with new updated Section 00 41 13 CONTRACTOR BID FORM (attached).
- Section 00 72 13 GENERAL CONDITIONS, Paragraph 27.8: Revise to read as follows:
 "27.8 Cost reflected in Change Orders shall be limited to the following: cost of materials, cost of delivery, cost of labor (including Social Security, pension, Workers' Compensation insurance, and unemployment insurance), and cost of rental of power tools and equipment. Labor cost may include a pro-ratio share of a foreman's time only in the case of an extension of contract time granted due to the Change Order. No additional expenses for general conditions will be allowed."
- 3. ADD <u>new</u> Section 012100 ALLOWANCES (attached).
- 4. **DELETE** Section 013200 CONSTRUCTION PROGRESS DOCUMENTATION and **REPLACE** with new updated Section 013200 CONSTRUCTION PROGRESS DOCUMENTATION (**attached**).
- 5. Section 013300 SUBMITTAL PROCEDURES, Paragraph 1.5.C: Review times indicated in this section are Business Days.
- 6. Section 042000 UNIT MASONRY, Paragraph 2.6: **ADD** the following paragraph:
 - "E. Thin Brick: ASTM C62, Grade NW, Grade MW, or Grade SW.
 - 1. Unit Compressive Strength: Provide units with minimum average net-area compressive strength to match existing brick.
 - 2. Size (Actual Dimensions): Match existing brick."

7. Section 077200 ROOF ACCESSORIES: INSERT new paragraph after 2.3 as follows:

"2.4 ROOF HATCH

- A. Roof Hatches: Metal roof-hatch units with lids and insulated double-walled curbs, welded or mechanically fastened and sealed corner joints, continuous lid-to-curb counterflashing and weathertight perimeter gasketing, straight sides, and integrally formed deck-mounting flange at perimeter bottom.
 - 1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to the following:
 - a. Acudor Products, Inc.
 - b. AES Industries, Inc.
 - c. Babcock-Davis.
 - d. Bilco Company (The).
 - e. Dur-Red Products.
 - f. JL Industries, Inc.; a division of the Activar Construction Products Group.
 - g. KCC International Inc.
 - h. Lexcor; a division of Luxsuco corp.
 - i. Milcor; Commercial Products Group of Hart & Cooley, Inc.
 - j. Nystrom, Inc.
 - k. O'Keeffe's Inc.
 - 1. Williams Bros. Corporation of America (The).
- B. Type and Size: Single-leaf lid, 36 by 36 inches.
- C. Loads: Minimum 40-lbf/sq. ft. external live load and 20-lbf/sq. ft. internal uplift load.
- D. Hatch Material: Zinc-coated (galvanized) or Aluminum-zinc alloy-coated steel sheet.
 - 1. Thickness: Manufacturer's standard thickness for hatch size indicated.
 - 2. Finish: Baked enamel or powder coat.
 - 3. Color: As selected by Architect from manufacturer's full range.
- E. Construction:
 - 1. Insulation: Cellulosic-fiber board or Glass-fiber board.
 - a. R-Value: 12.0 according to ASTM C 1363.
 - 2. Nailer: Factory-installed wood nailer continuous around hatch perimeter.
 - 3. Hatch Lid: Opaque, insulated, and double walled, with manufacturer's standard metal liner of same material and finish as outer metal lid.
 - 4. Curb Liner: Manufacturer's standard, of same material and finish as metal curb.
 - 5. On ribbed or fluted metal roofs, form flange at perimeter bottom to conform to roof profile.
 - 6. Fabricate curbs to minimum height of 12 inches above roofing surface unless otherwise indicated.
 - 7. Sloping Roofs: Where slope or roof deck exceeds 1:48, fabricate curb with perimeter curb height that is tapered to accommodate roof slope so that top surfaces of perimeter curb are level. Equip hatch with water diverter or cricket on side that obstructs water flow.
- F. Hardware: Spring operators, hold-open arm, galvanized-steel spring latch with turn handles, galvanized-steel butt- or pintle-type hinge system, and padlock hasps inside and outside.
 - 1. Provide two-point latch on lids larger than 84 inches.

- G. Safety Railing System: Roof-hatch manufacturer's standard system including rails, clamps, fasteners, safety barrier at railing opening, and accessories required for a complete installation; attached to roof hatch and complying with 29 CFR 1910.23 requirements and authorities having jurisdiction.
 - 1. Height: 42 inches above finished roof deck.
 - 2. Posts and Rails: Galvanized-steel pipe, 1-1/4 inches in diameter or galvanized-steel tube, 1-5/8 inches in diameter.
 - 3. Maximum Opening Size: System constructed to prevent passage of a sphere 21 inches in diameter.
 - 4. Self-Latching Gate: Fabricated of same materials and rail spacing as safety railing system. Provide manufacturer's standard hinges and self-latching mechanism.
 - 5. Post and Rail Tops and Ends: Weather resistant, closed or plugged with prefabricated end fittings.
 - 6. Provide weep holes or another means to drain entrapped water in hollow sections of handrail and railing members.
 - 7. Fabricate joints exposed to weather to be watertight.
 - 8. Fasteners: Manufacturer's standard, finished to match railing system.
 - 9. Finish: Manufacturer's standard.
 - a. Color: As selected by Architect from manufacturer's full range.
- H. Ladder-Assist Post: Roof-hatch manufacturer's standard device for attachment to roofaccess ladder.
 - 1. Operation: Post locks in place on full extension; release mechanism returns post to closed position.
 - 2. Height: 42 inches above finished roof deck.
 - 3. Material: Steel tube.
 - 4. Post: 1-5/8-inch-diameter pipe.
 - 5. Finish: Manufacturer's standard baked enamel or powder coat.

a. Color: As selected by Architect from manufacturer's full range."

- 8. ADD new Section 085653, SECURITY WINDOWS AND DEAL TRAYS (attached).
- 9. Section 087100 DOOR HARDWARE, Paragraph 3.7: ADD the following:

"Door Hardware Set No. HW-7A, Doors: 104, 206, 206A

- 4 Hinges
 2 Power Transfer Hinges
 2 Exit Devices
 2 Levers,
 4 Hinges
 2 Stanley, 5 Knuckle, ball bearing, heavy weight full mortise hinge
 2 Von Duprin, EPT2, Power Transfer
 2 Von Duprin 9827 Series, Quiet Electric Latch Retraction,
 4 function L, Key locks and unlocks with electrified lever operation.
 2 Von Duprin, Standard lever profile 07
- 1 Cylinder, Dormakaba; "KABA 3850-25-1007 PK1".
- 1 Card Reader, HID Signo Priority Seos Profile Reader, Model 40
- 2 Closers LCN; "4040XP Series (parallel arm)"
- 1 Power Supply
- 2 Door position switches GE Interlogix-1078C
- 2 Door Stop Ives; "FS13 Dome (floor)/WS401CVS Convex (wall)"
- * Coordinate with Division 28 ELECTRONIC SAFETY AND SECURITY for access control hardware and fire alarm connections.
- ** Coordinate power supply requirements for connection to/with adjacent doors indicated on Drawings."

10. ADD <u>new</u> Section 131000, ARCHITECTURAL ASSEMBLIES (attached).

11. Section 224223, COMMERCIAL SHOWERS: **REPLACE** Paragraph 2.1 with the following:

"2.1 INDIVIDUAL SHOWERS

- A. Individual FRP Showers, Accessible for Side Transfer (SH-1):
 - 1. <u>Basis-of-Design Product:</u> Subject to compliance with requirements, provide Oasis Model SHFW-WX-3837, or a comparable approved product by one of the following:
 - a. Clarion Bathware.
 - b. Florestone Products Co., Inc.
 - c. LASCO Bathware.
 - d. Sterling.
 - e. Swan Corporation.
 - 2. General: FRP, accessible, shower enclosure with faucet and receptor and appurtenances.
 - 3. Standard: ANSI Z124.1.2.
 - 4. Type: One-piece unit without top.
 - 5. Style: Standard.
 - 6. Faucet: SH-2.
 - 7. Nominal Size and Shape: 36 by 36 inches.
 - 8. Color: White.
 - 9. Bathing Surface: Slip resistant according to ASTM F 462.
 - 10. Outlet: Drain with NPS 2 outlet.
 - 11. Shower Rod: Required.
 - 12. Integral Fold-Down Seat: Required.
 - 13. Integral Grab Bars: Required."

DRAWINGS (all referenced revised drawings below are included/attached)

ARCHITECTURAL

- 1. Sheet AE120
 - a. **Four** Guardian CB-18 Roof Anchor Posts are to be provided. Locations will be determined during the submittal review for the final roof top equipment following confirmation of equipment service areas.
- 2. Sheet AE404
 - a. **ADD** note at door transom panel, Detail 6/AE404.
 - b. **ADD** Detail 15/AE404 detail at transom panel.
- 3. Sheet AE741
 - a. **REVISE** wader hangers, keynote 18 in Detail 15/AE741.

STORAGE BARN

- 1. Sheet AE
 - a. **REVISE** vapor barrier membrane note, Detail 3/AE120.

ELECTRICAL

- 1. **REPLACE** Drawing E-001.
- 2. **REPLACE** Drawing EP101.
- 3. **REPLACE** Drawing EP102.
- 4. **REPLACE** Drawing EP103.
- 5. **REPLACE** Drawing EP104.

- 6. **REPLACE** Drawing EP501.
- 7. **REPLACE** Drawing EP502.
- 8. **REPLACE** Drawing EP601.
- 9. **REPLACE** Drawing EP602.
- 10. **REPLACE** Drawing EP603.
- 11. **REPLACE** Drawing EP604.
- 12. **REPLACE** Drawing EL103.
- 13. **REPLACE** Drawing EL104.
- 14. **REPLACE** Drawing ET101.
- 15. **REPLACE** Drawing E-001-Barn.
- 16. **REPLACE** Drawing EP101-Barn.
- 17. **REPLACE** Drawing EL101-Barn.
- 18. **REPLACE** Drawing ET101-Barn.
- 19. **REPLACE** Drawing FA101-Barn.

END OF ADDENDUM NO. 7



LEED v4.1 BD+C Project Checklist

Project Name: IF&W Headquarters Date: 2024

Y ? N



4	2	10	Locat	ion and Transportation	16	5	6	2	Mat	erials and Resources	13
			Credit	LEED for Neighborhood Development Location	16	Y			Prere	eq Storage and Collection of Recyclables	Required
1			Credit	Sensitive Land Protection	1	3		2	Cr edi	t Building Life-Cycle Impact Reduction	5
		2	Credit	High Priority Site and Equitable Development	2		2		Cr edi	t Environmental Product Declarations	2
1	1	3	Credit	Surrounding Density and Diverse Uses (walk score 16 $$	5	1	1		Cr edi	t Sourcing of Raw Materials	2
		5	Oredit	Access to Quality Transit	5		2		Cr edi	t Material Ingredients	2
1			Credit	Bicycle Facilities	1	1	1		Cr edi	t Construction and Demolition Waste Management	2
	1		Credit	Reduced Parking Footprint	1				-		
1			Credit	Electric Vehicles	1	12	4	0	l no	door Environmental Quality	16
						Y			Prere	eq Minimum Indoor Air Quality Performance	Required
1	2	7	Susta	ninable Sites	10	Y			Prere	eq Environmental Tobacco Smoke Control	Required
Y			Pr er eq	Construction Activity Pollution Prevention	Required	2			Cr edi	t Enhanced Indoor Air Quality Strategies	2
		1	Credit	Site Assessment	1	3			Cr edi	t Low-Emitting Materials	3
		2	Credit	Protect or Restore Habitat	2	1			Cr edi	t Construction Indoor Air Quality Management Plan	1
	1		Oredit	Open Space	1	1	1		Cr edi	t Indoor Air Quality Assessment	2
	1	2	Oredit	Rainwater Management	3	1			Cr edi	t Thermal Comfort	1
		2	Credit	Heat Island Reduction	2	1	1		Cr edi	t Interior Lighting	2
1			Oredit	Light Pollution Reduction	1	1	2		Cr edi	t Daylight	3
						1			Cr edi	t Quality Views	1
3	2	6	Water	Efficiency	11	1			Cr edi	t Acoustic Performance	1
Y			Prereq	Outdoor Water Use Reduction	Required				-		
Y			Pr er eq	Indoor Water Use Reduction	Required	4	2	0	l nr	novat i on	6
Y			Pr er eq	Building-Level Water Metering	Required	3	2		Cr edi	t Innovation	5
2			Credit	Outdoor Water Use Reduction	2	1			Cr edi	t LEED Accredited Professional	1
	2	4	Credit	Indoor Water Use Reduction	6				-		
		2	Credit	Optimize Process Water Use	2	4	0	0	Reg	gional Priority	4
1			Credit	Water Metering	1	1			Cr edi	t Regional Priority: Specific Credit	1
						1			Cr edi	t Regional Priority: Specific Credit	1
18	5	10	Energ	yy and Atmosphere	33	1			Cr edi	t Regional Priority: Specific Credit	1
Y			Pr er eq	Fundamental Commissioning and Verification	Required	1			Cr edi	t Regional Priority: Specific Credit	1
Y			Pr er eq	Minimum Energy Performance	Required						
Y			Pr er eq	Building-Level Energy Metering	Required	51	24	35	TO	TALS Possible Points:	110
Y			Pr er eq	Fundamental Refrigerant Management	Required	-		Cert	tifie	ed: 40 to 49 points, Silver: 50 to 59 points, Gold: 60 to 79 p	boints,
5	1		Credit	Enhanced Commissioning	6					Platinum 80 to 110	
10	2	6	Credit	Optimize Energy Performance	18						
1			Credit	Advanced Energy Metering	1						
		2	Credit	Grid Harmonization	2						
2	1	2	Credit	Renewable Energy	5						
	1		Credit	Enhanced Refrigerant Management	1						

1

00 41 13 Contractor Bid Form

NEW HEADQUARTERS BUILDING - INLAND FISHERIES AND WILDLIFE BGS Project Number 3159

Bid Form submitted by: paper documents only to address below

Bid Administrator: Brian Keezer, Ba Bureau of Gener 111 Sewall Stree 77 State House S Augusta, Maine	BGS.Architect@Maine.gov	
Bidder:		
Signature:		
Printed name and title:		
Company name:		
Mailing address:		
City, state, zip code:		
Phone number:		
Email address:		
State of incorporation, if a corporation:		
List of all partners, if a partnership:		

The Bidder agrees, if the Owner offers to award the contract, to provide any and all bonds and certificates of insurance, as well as Schedule of Values, Project Schedule, and List of Subcontractors and Suppliers if required by the Owner, and to sign the designated Construction Contract within twelve calendar days after the date of notification of such acceptance, except if the twelfth day falls on a State of Maine government holiday or other closure day, or a Saturday, or a Sunday, in which case the aforementioned documents must be received before 12:00 noon on the first available business day following the holiday, other closure day, Saturday, or Sunday.

As a guarantee thereof, the Bidder submits, together with this bid, a bid bond or other acceptable instrument as and if required by the Bid Documents.

00 41 13 Contractor Bid Form

 The Bidder, having carefully examined the <u>NEW HEADQUARTERS BUILDING - INLAND</u> <u>FISHERIES AND WILDLIFE</u> Project Manual dated <u>January 29, 2025</u>, prepared by <u>Oak Point</u> <u>Associates</u>, as well as Specifications, Drawings, and any Addenda, the form of contract, and the premises and conditions relating to the work, proposes to furnish all labor, equipment and materials necessary for and reasonably incidental to the construction and completion of this project for the **Base Bid** amount of:

\$<u>.00</u>

2. Allowances *are included* on this project. *Bid amount above includes the following Allowances Allowance No. 1 -- Concrete Moisture Mitigation*

\$ 50,000<u>.00</u>

 Alternate Bids are included on this project. *Alternate Bids are as shown below* Any dollar amount line below that is left blank by the Bidder shall be read as a bid of \$0.00.

- 1
 \$_____00

 2
 \$_____00
- 4. Bid security *is required* on this project. If noted above as required, or if the Base Bid amount exceeds \$125,000.00, the Bidder shall include with this bid form a satisfactory Bid Bond (section 00 43 13) or a certified or cashier's check for 5% of the bid amount with this completed bid form submitted to the Owner.
- 5. Filed Sub-bids *are not required* on this project. If noted above as required, the Bidder shall include with this bid form a list of each Filed Sub-bidder selected by the Bidder on the form provided (section 00 41 13F).

SECTION 012100 - ALLOWANCES

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes administrative and procedural requirements governing allowances.
- B. Types of allowances include the following:
 - 1. Contingency allowances.
- C. Related Requirements:
 - 1. Section 012200 "Unit Prices" for procedures for using unit prices, including adjustment of quantity allowances when applicable.
 - 2. Section 012600 "Contract Modification Procedures" for procedures for submitting and handling Change Orders.
 - 3. Section 014000 "Quality Requirements" for procedures governing the use of allowances for field testing by an independent testing agency.

1.2 DEFINITIONS

A. Allowance: A quantity of work or dollar amount included in the Contract, established in lieu of additional requirements, used to defer selection of actual materials and equipment to a later date when direction will be provided to Contractor. If necessary, additional requirements will be issued by Change Order.

1.3 SELECTION AND PURCHASE

- A. At the earliest practical date after award of the Contract, advise Architect of the date when final selection, or purchase and delivery, of each product or system described by an allowance must be completed by the Owner to avoid delaying the Work.
- B. At Architect's request, obtain proposals for each allowance for use in making final selections. Include recommendations that are relevant to performing the Work.
- C. Purchase products and systems selected by Architect from the designated supplier.

1.4 ACTION SUBMITTALS

- A. Submittals shall comply with the requirements of Section 013300 "Submittal Procedures" and the individual sections specifying the work.
- B. Submit proposals for purchase of products or systems included in allowances in the form specified for Change Orders.

1.5 INFORMATIONAL SUBMITTALS

- A. Submittals shall comply with the requirements of Section 013300 "Submittal Procedures" and the individual sections specifying the work.
- B. Submit invoices or delivery slips to show actual quantities of materials delivered to the site for use in fulfillment of each allowance.
- C. Coordinate and process submittals for allowance items in same manner as for other portions of the Work.

1.6 CONTINGENCY ALLOWANCES

- A. Use the contingency allowance only as directed by Architect for Owner's purposes and only by Change Orders that indicate amounts to be charged to the allowance.
- B. Change Orders authorizing use of funds from the contingency allowance will include Contractor's related costs and reasonable overhead and profit.
- C. At Project closeout, credit unused amounts remaining in the contingency allowance to Owner by Change Order.

1.7 ADJUSTMENT OF ALLOWANCES

- A. Allowance Adjustment: To adjust allowance amounts, prepare a Change Order proposal based on the difference between purchase amount and the allowance, multiplied by final measurement of work-in-place where applicable. If applicable, include reasonable allowances for cutting losses, tolerances, mixing wastes, normal product imperfections, required maintenance materials, and similar margins.
 - 1. Include installation costs in purchase amount only where indicated as part of the allowance.
 - 2. If requested, prepare explanation and documentation to substantiate distribution of overhead costs and other markups.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine products covered by an allowance promptly on delivery for damage or defects. Return damaged or defective products to manufacturer for replacement.

3.2 PREPARATION

A. Coordinate materials and their installation for each allowance with related materials and installations to ensure that each allowance item is completely integrated and interfaced with related work.

3.3 SCHEDULE OF ALLOWANCES

A. Allowance No. 1: Contingency Allowance: Include a contingency allowance of \$50,000.00 for use according to Owner's written instructions for the purposes of moisture management or additives in concrete slabs.

END OF SECTION

SECTION 013200 - CONSTRUCTION PROGRESS DOCUMENTATION

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes administrative and procedural requirements for documenting the progress of construction during performance of the Work, including the following:
 - 1. Startup construction schedule.
 - 2. Contractor's Construction Schedule.
 - 3. Construction schedule updating reports.
 - 4. Daily construction reports.
 - 5. Material location reports.
 - 6. Site condition reports.
 - 7. Unusual event reports.
- B. Related Requirements:
 - 1. Section 012900 "Payment Procedures" for schedule of values and requirements for use of cost-loaded schedule for Applications for Payment.
 - 2. Section 014000 "Quality Requirements" for schedule of tests and inspections.

1.2 DEFINITIONS

- A. Activity: A discrete part of a project that can be identified for planning, scheduling, monitoring, and controlling the construction Project. Activities included in a construction schedule consume time and resources.
 - 1. Critical Activity: An activity on the critical path that must start and finish on the planned early start and finish times.
 - 2. Predecessor Activity: An activity that precedes another activity in the network.
 - 3. Successor Activity: An activity that follows another activity in the network.
- B. Cost Loading: The allocation of the schedule of values for completing an activity as scheduled. The sum of costs for all activities must equal the total Contract Sum.
- C. CPM: Critical path method, which is a method of planning and scheduling a construction project where activities are arranged based on activity relationships. Network calculations determine the critical path of Project and when activities can be performed.
- D. Critical Path: The longest connected chain of interdependent activities through the network schedule that establishes the minimum overall Project duration and contains no float.
- E. Event: The starting or ending point of an activity.
- F. Float: The measure of leeway in starting and completing an activity.

- 1. Float time is not for the exclusive use or benefit of either Owner or Contractor, but is a jointly owned, expiring Project resource available to both parties as needed to meet schedule milestones and Contract completion date.
- 2. Free float is the amount of time an activity can be delayed without adversely affecting the early start of the successor activity.
- 3. Total float is the measure of leeway in starting or completing an activity without adversely affecting the planned Project completion date.
- G. Resource Loading: The allocation of labor and equipment necessary for completing an activity as scheduled.

1.3 INFORMATIONAL SUBMITTALS

- A. Format for Submittals: Submit required submittals in the following format:
 - 1. Working electronic copy of schedule file.
 - 2. PDF file.
- B. Startup construction schedule.
 - 1. Submittal of cost-loaded startup construction schedule will not constitute approval of schedule of values for cost-loaded activities.
- C. Startup Network Diagram: Of size required to display entire network for entire construction period. Show logic ties for activities.
- D. Contractor's Construction Schedule: Initial schedule, of size required to display entire schedule for entire construction period.
 - 1. Submit a working digital copy of schedule, using software indicated, and labeled to comply with requirements for submittals.
- E. CPM Reports: Concurrent with CPM schedule, submit each of the following reports. Format for each activity in reports to contain activity number, activity description, cost and resource load-ing, original duration, remaining duration, early start date, early finish date, late start date, late finish date, and total float in calendar days.
 - 1. Activity Report: List of activities sorted by activity number and then early start date, or actual start date if known.
 - 2. Logic Report: List of preceding and succeeding activities for each activity, sorted in ascending order by activity number and then by early start date, or actual start date if known.
 - 3. Total Float Report: List of activities sorted in ascending order of total float.
 - 4. Earnings Report: Compilation of Contractor's total earnings from the Notice to Proceed until most recent Application for Payment.
- F. Construction Schedule Updating Reports: Submit with Applications for Payment.
- G. Daily Construction Reports: Submit at weekly intervals.
- H. Material Location Reports: Submit at weekly intervals.

- I. Site Condition Reports: Submit at time of discovery of differing conditions.
- J. Unusual Event Reports: Submit at time of unusual event.
- K. Qualification Data: For scheduling consultant.

1.4 QUALITY ASSURANCE

- A. Scheduling Consultant Qualifications: An experienced specialist in CPM scheduling and reporting, with capability of producing CPM reports and diagrams within 24 hours of Architect's request.
- B. Prescheduling Conference: Conduct conference at Project site to comply with requirements in Section 013100 "Project Management and Coordination." Review methods and procedures related to the preliminary construction schedule and Contractor's Construction Schedule, including, but not limited to, the following:
 - 1. Review software limitations and content and format for reports.
 - 2. Verify availability of qualified personnel needed to develop and update schedule.
 - 3. Discuss constraints, including work stages, area separations, and interim milestones.
 - 4. Review delivery dates for Owner-furnished products.
 - 5. Review schedule for work of Owner's separate contracts.
 - 6. Review submittal requirements and procedures.
 - 7. Review time required for review of submittals and resubmittals.
 - 8. Review requirements for tests and inspections by independent testing and inspecting agencies.
 - 9. Review time required for Project closeout and Owner startup procedures, including commissioning activities.
 - 10. Review and finalize list of construction activities to be included in schedule.
 - 11. Review procedures for updating schedule.

1.5 COORDINATION

- A. Coordinate Contractor's Construction Schedule with the schedule of values, submittal schedule, progress reports, payment requests, and other required schedules and reports.
 - 1. Secure time commitments for performing critical elements of the Work from entities involved.
 - 2. Coordinate each construction activity in the network with other activities, and schedule them in proper sequence.

1.6 CONTRACTOR'S CONSTRUCTION SCHEDULE

- A. Computer Scheduling Software: Prepare schedules using current version of a program that is capable of managing construction schedules.
 - 1. Use Microsoft Project, Procore, or Oracle Primavera Cloud for current Windows operating system.

- B. Scheduling Consultant: Engage a consultant to provide planning, evaluation, and reporting, using CPM scheduling.
 - 1. In-House Option: Owner may waive requirement to retain a consultant if Contractor employs skilled personnel with experience in CPM scheduling and reporting techniques. Submit qualifications.
 - 2. Meetings: Scheduling consultant to attend all meetings related to Project progress, alleged delays, and time impact.
- C. Time Frame: Extend schedule from date established for the Notice to Proceed to date of Final Completion.
 - 1. Contract completion date to not be changed by submission of a schedule that shows an early completion date, unless specifically authorized by Change Order.
- D. Activities: Treat each floor or separate area as a separate numbered activity for each main element of the Work. Comply with the following:
 - 1. Activity Duration: Define activities so no activity is longer than 20 days, unless specifically allowed by Architect.
 - 2. Temporary Facilities: Indicate start and completion dates for the following as applicable:
 - a. Securing of approvals and permits required for performance of the Work.
 - b. Temporary facilities.
 - c. Construction of mock-ups, prototypes and samples.
 - d. Owner interfaces and furnishing of items.
 - e. Interfaces with Separate Contracts.
 - f. Punch list.
 - 3. Procurement Activities: Include procurement process activities for the following long lead-time items and major items, requiring a cycle of more than 60 days, as separate activities in schedule. Procurement cycle activities include, but are not limited to, submittals, approvals, purchasing, fabrication, and delivery.
 - a. Doors, frames, and hardware.
 - b. Mechanical equipment.
 - c. Structural steel.
 - d. CLT and glue-lam timber.
 - e. Electrical equipment.
 - f. Equipment or materials with load times greater than 20 weeks.
 - 4. Submittal Review Time: Include review and resubmittal times indicated in Section 013300 "Submittal Procedures" in schedule. Coordinate submittal review times in Contractor's Construction Schedule with submittal schedule.
 - 5. Startup and Testing Time: Include no fewer than 15 days for startup and testing.
 - 6. Commissioning Time: Include no fewer than 20 days for commissioning.
 - 7. Substantial Completion: Indicate completion in advance of date established for Substantial Completion, and allow time for Architect's administrative procedures necessary for certification of Substantial Completion.
 - 8. Punch List and Final Completion: Include not more than 30 days for completion of punch list items and Final Completion.

- E. Constraints: Include constraints and work restrictions indicated in the Contract Documents and as follows in schedule, and show how the sequence of the Work is affected.
 - 1. Phasing: Arrange list of activities on schedule by phase.
 - 2. Work by Owner: Include a separate activity for each portion of the Work performed by Owner.
 - 3. Products Ordered in Advance: Include a separate activity for each product. Include delivery date indicated in Section 011000 "Summary." Delivery dates indicated stipulate the earliest possible delivery date.
 - 4. Owner-Furnished Products: Include a separate activity for each product. Include delivery date indicated in Section 011000 "Summary." Delivery dates indicated stipulate the earliest possible delivery date.
 - 5. Work Restrictions: Show the effect of the following items on the schedule:
 - a. Uninterruptible services.
 - b. Use-of-premises restrictions.
 - c. Seasonal variations.
 - d. Environmental control.
 - 6. Work Stages: Indicate important stages of construction for each major portion of the Work, including, but not limited to, the following:
 - a. Subcontract awards.
 - b. Submittals.
 - c. Purchases.
 - d. Mockups.
 - e. Fabrication.
 - f. Sample testing.
 - g. Deliveries.
 - h. Installation.
 - i. Tests and inspections.
 - j. Adjusting.
 - k. Curing.
 - 1. Building flush-out.
 - m. Startup and placement into final use and operation.
 - n. Commissioning.
 - 7. Construction Areas: Identify each major area of construction for each major portion of the Work. Indicate where each construction activity within a major area must be sequenced or integrated with other construction activities to provide for the following:
 - a. Structural completion.
 - b. Temporary enclosure and space conditioning.
 - c. Permanent space enclosure.
 - d. Completion of mechanical installation.
 - e. Completion of electrical installation.
 - f. Substantial Completion.
- F. Milestones: Include milestones indicated in the Contract Documents in schedule, including, but not limited to, the Notice to Proceed, Substantial Completion, and Final Completion.

- G. Upcoming Work Summary: Prepare summary report indicating activities scheduled to occur or commence prior to submittal of next schedule update. Summarize the following issues:
 - 1. Unresolved issues.
 - 2. Unanswered Requests for Information.
 - 3. Rejected or unreturned submittals.
 - 4. Notations on returned submittals.
 - 5. Pending modifications affecting the Work and the Contract Time.
- H. Contractor's Construction Schedule Updating: At monthly intervals, update schedule to reflect actual construction progress and activities. Issue schedule one week before each regularly scheduled progress meeting.
 - 1. Revise schedule immediately after each meeting or other activity where revisions have been recognized or made. Issue updated schedule concurrently with the report of each such meeting.
 - 2. Include a report with updated schedule that indicates every change, including, but not limited to, changes in logic, durations, actual starts and finishes, and activity durations.
 - 3. As the Work progresses, indicate Final Completion percentage for each activity.
- I. Recovery Schedule: When periodic update indicates the Work is 14 or more calendar days behind the current approved schedule, submit a separate recovery schedule indicating means by which Contractor intends to regain compliance with the schedule. Indicate changes to working hours, working days, crew sizes, equipment required to achieve compliance, and date by which recovery will be accomplished.
- J. Distribution: Distribute copies of approved schedule to Architect, Owner, separate contractors, testing and inspecting agencies, and other parties identified by Contractor with a need-to-know schedule responsibility.
 - 1. Post copies in Project meeting rooms and temporary field offices.
 - 2. When revisions are made, distribute updated schedules to the same parties and post in the same locations. Delete parties from distribution when they have completed their assigned portion of the Work and are no longer involved in performance of construction activities.

1.7 STARTUP CONSTRUCTION SCHEDULE

- A. Gantt-Chart Schedule: Submit startup, horizontal, Gantt-chart-type construction schedule within seven days of date established for the Notice to Proceed and the Notice of Award.
- B. Preparation: Indicate each significant construction activity separately. Identify first workday of each week with a continuous vertical line. Outline significant construction activities for first 90 days of construction. Include skeleton diagram for the remainder of the Work and a cash requirement prediction based on indicated activities.

1.8 CPM SCHEDULE REQUIREMENTS

A. Prepare network diagrams using AON (activity-on-node) format.

- B. Startup Network Diagram: Submit diagram within 14 days of date established for the Notice to Proceed. Outline significant construction activities for the first 90 days of construction. Include skeleton diagram for the remainder of the Work and a cash requirement prediction based on indicated activities.
- C. CPM Schedule: Prepare Contractor's Construction Schedule using a cost- and resource-loaded, time-scaled CPM network analysis diagram for the Work.
 - 1. Develop network diagram in sufficient time to submit CPM schedule, so it can be accepted for use no later than 60 days after date established for the Notice to Proceed.
 - a. Failure to include any work item required for performance of this Contract must not excuse Contractor from completing all work within applicable completion dates.
 - 2. Conduct educational workshops to train and inform key Project personnel, including subcontractors' personnel, in proper methods of providing data and using CPM schedule information.
 - 3. Establish procedures for monitoring and updating CPM schedule and for reporting progress. Coordinate procedures with progress meeting and payment request dates.
 - 4. Use "one workday" as the unit of time for individual activities. Indicate nonworking days and holidays incorporated into the schedule to coordinate with the Contract Time.
- D. CPM Schedule Preparation: Prepare a list of all activities required to complete the Work. Using the startup network diagram, prepare a skeleton network to identify probable critical paths.
 - 1. Activities: Indicate the estimated time duration, sequence requirements, and relationship of each activity in relation to other activities. Include estimated time frames for the following activities:
 - a. Preparation and processing of submittals.
 - b. Mobilization and demobilization.
 - c. Purchase of materials.
 - d. Delivery.
 - e. Fabrication.
 - f. Utility interruptions.
 - g. Installation.
 - h. Work by Owner that may affect or be affected by Contractor's activities.
 - i. Testing and inspection.
 - j. Commissioning.
 - k. Punch list and Final Completion.
 - 1. Activities occurring following Final Completion.
 - 2. Critical Path Activities: Identify critical path activities, including those for interim completion dates. Scheduled start and completion dates to be consistent with Contract milestone dates.
 - 3. Processing: Process data to produce output data on a computer-drawn, time-scaled network. Revise data, reorganize activity sequences, and reproduce as often as necessary to produce the CPM schedule within the limitations of the Contract Time.
 - 4. Format: Mark the critical path. Locate the critical path near center of network; locate paths with most float near the edges.

- a. Subnetworks on separate sheets are permissible for activities clearly off the critical path.
- 5. Cost- and Resource-Loading of CPM Schedule: Assign cost to construction activities on the CPM schedule. Do not assign costs to submittal activities. Obtain Architect's approval prior to assigning costs to fabrication and delivery activities. Assign costs under main subcontracts for testing and commissioning activities, operation and maintenance manuals, punch list activities, Project record documents, sustainable design documentation, and demonstration and training (if applicable), in the amount of 5 percent of the Contract Sum.
 - a. Each activity cost to reflect an appropriate value subject to approval by Architect.
 - b. Total cost assigned to activities to equal the total Contract Sum.
- E. Contract Modifications: For each proposed contract modification and concurrent with its submission, prepare a time-impact analysis using a network fragment to demonstrate the effect of the proposed change on the overall Project schedule.
 - 1. Indicate when available float is utilized by the proposed change.
 - 2. Indicate impact to the critical path and provide summary of methods to minimize the impact to the substantial completion date,
- F. Initial Issue of Schedule: Prepare initial network diagram from a sorted activity list indicating straight "early start-total float." Identify critical activities. Prepare tabulated reports showing the following:
 - 1. Contractor or subcontractor and the Work or activity.
 - 2. Description of activity.
 - 3. Main events of activity.
 - 4. Immediate preceding and succeeding activities.
 - 5. Early and late start dates.
 - 6. Early and late finish dates.
 - 7. Activity duration in workdays.
 - 8. Total float or slack time.
 - 9. Average size of workforce.
 - 10. Dollar value of activity (coordinated with the schedule of values).
- G. Schedule Updating: Concurrent with making revisions to schedule, prepare tabulated reports showing the following:
 - 1. Identification of activities that have changed.
 - 2. Changes in early and late start dates.
 - 3. Changes in early and late finish dates.
 - 4. Changes in activity durations in workdays.
 - 5. Changes in the critical path.
 - 6. Changes in total float or slack time.
 - 7. Changes in the Contract Time.

1.9 REPORTS

- A. Daily Construction Reports: Prepare a daily construction report recording the following information concerning events at Project site:
 - 1. List of subcontractors at Project site.
 - 2. List of separate contractors at Project site.
 - 3. Approximate count of personnel at Project site.
 - 4. Equipment at Project site.
 - 5. Material deliveries.
 - 6. High and low temperatures and general weather conditions, including presence of rain or snow.
 - 7. Testing and inspection.
 - 8. Accidents.
 - 9. Meetings and significant decisions.
 - 10. Unusual events.
 - 11. Stoppages, delays, shortages, and losses.
 - 12. Emergency procedures.
 - 13. Orders and requests of authorities having jurisdiction.
 - 14. Change Orders received and implemented.
 - 15. Construction Change Directives received and implemented.
 - 16. Services connected and disconnected.
 - 17. Equipment or system tests and startups.
 - 18. Partial completions and occupancies.
 - 19. Substantial Completions authorized.
- B. Material Location Reports: At monthly intervals, prepare and submit a comprehensive list of materials delivered to and stored at Project site. List to be cumulative, showing materials previously reported plus items recently delivered. Include with list a statement of progress on and delivery dates for materials or items of equipment fabricated or stored away from Project site. Indicate the following categories for stored materials:
 - 1. Material stored prior to previous report and remaining in storage.
 - 2. Material stored prior to previous report and since removed from storage and installed.
 - 3. Material stored following previous report and remaining in storage.
- C. Site Condition Reports: Immediately on discovery of a difference between site conditions and the Contract Documents, prepare and submit a detailed report. Submit with a Request for Information. Include a detailed description of the differing conditions, together with recommendations for changing the Contract Documents.
- D. Unusual Event Reports: When an event of an unusual and significant nature occurs at Project site, whether or not related directly to the Work, prepare and submit a special report. List chain of events, persons participating, responses by Contractor's personnel, evaluation of results or effects, and similar pertinent information. Advise Owner in advance when these events are known or predictable.
 - 1. Submit unusual event reports directly to Owner within one day of an occurrence. Distribute copies of report to parties affected by the occurrence.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION

SECTION 085653 - SECURITY WINDOWS AND DEAL TRAYS

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Fixed, transaction security windows.
 - 2. Deal tray.
 - 3. Speak-thru's.
- B. Related Requirements:
 - 1. Section 131000 "Architectural Assemblies" for package receiver devices.

1.2 REFERENCES

- A. Underwriters Laboratories (UL):
 - 1. UL 10B Standard for Fire tests of Door Assemblies.

1.3 COORDINATION

A. Coordinate installation of anchorages for security windows. Furnish setting drawings, templates, and directions for installing anchorages, including sleeves, concrete inserts, anchor bolts, and items with integral anchors, that are to be embedded in adjacent construction.

1.4 PREINSTALLATION MEETINGS

A. Preinstallation Conference: Conduct conference at Project site.

1.5 ACTION SUBMITTALS

- A. Submittals shall comply with the requirements of Section 013300 "Submittal Procedures" and the individual sections specifying the work.
- B. Product Data: For each type of product.
 - 1. Include construction details, material descriptions, dimensions of individual components and profiles, weights and finishes for window units, deal trays, and speak-thru's.
- C. Sustainable Design Submittals:

- 1. Product Data: For recycled content, indicating postconsumer and pre-consumer recycled content and cost.
- 2. Product Certificates: For regional materials, indicating location of material manufacturer and point of extraction, harvest, or recovery for each raw material. Include distance to Project and cost for each regional material.
- 3. Environmental Product Declaration (EPD): For each product.
- 4. Health Product Declaration: For each product.
- 5. Sourcing of Raw Materials: Corporate sustainability report for each manufacturer.
- D. Shop Drawings: For security windows.
 - 1. Include plans, elevations, sections, and attachment details.
 - 2. Full-size section details of framing members, including internal armoring, reinforcement, and stiffeners.
 - 3. Glazing details.
 - 4. Details of deal tray and speaking aperture.
- E. Samples for Initial Selection: For frame members with factory-applied color finishes.

1.6 INFORMATIONAL SUBMITTALS

- A. Submittals shall comply with the requirements of Section 013300 "Submittal Procedures" and the individual sections specifying the work.
- B. Qualification Data: For Installer and testing agency.
- C. Welding certificates.
- D. Product Test Reports: For each type of security window and accessory indicated as ballistics resistant, for tests performed by a qualified testing agency.
- E. Examination reports documenting inspections of substrates, areas, and conditions.
- F. Field quality-control reports documenting inspections of installed products.
 - 1. Field quality-control certification signed by Contractor.
- G. Sample Warranty: For special warranty.

1.7 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section with a minimum of five years documented experience.
- B. Installer Qualifications: Company specializing in performing Work of this section with minimum two years documented experience with projects of similar scope and complexity.
- C. Source Limitations: Provide each type of product from a single manufacturing source to ensure uniformity.

1.8 DELIVERY, STORAGE, AND HANDLING

- A. Pack security windows in wood crates for shipment. Crate glazing separate from frames unless factory-glazed.
- B. Label security window packaging with drawing designation.
- C. Store crated security windows on raised blocks to prevent moisture damage.

1.9 FIELD CONDITIONS

A. Field Measurements: Verify actual dimensions of openings by field measurements before fabrication.

1.10 SEQUENCING

A. Ensure that products of this section are supplied to affected trades in time to prevent interruption of construction progress.

1.11 WARRANTY

- A. Special Warranty: Manufacturer agrees to repair or replace security windows that fail in materials or workmanship within specified warranty period.
 - 1. Failures include, but are not limited to, the following:
 - a. Structural failures including deflections exceeding 1/4 inch.
 - b. Failure of welds.
 - c. Deterioration of metals, metal finishes, and other materials beyond normal weathering and use.
 - 2. Warranty Period: Three years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. Attack Resistance: Provide units identical to those tested for compliance with requirements indicated, and as follows:
 - 1. Forced-Entry Resistance, ASTM F1233: Class 4.0 in accordance with ASTM F1233.

2.2 FIXED, TRANSACTION SECURITY WINDOWS

A. Fixed, Transaction Security Windows: Provide fixed, transaction security windows with ventilator capable of allowing transfer of currency and documents.

SECURITY WINDOWS AND DEAL TRAYS

- 1. Basis-of-Design Product: Subject to compliance with requirements, provide Chicago Bullet Proof Systems, Custom Force Protection Window Frame Assembly, or comparable product by one of the following:
 - a. Armortex
 - b. Creative Industries, Inc
 - c. Krieger Specialty Products Company
 - d. National Bullet Proof, Inc
 - e. Norshield Security Products, LLC
 - f. Overly Door Company
 - g. Protective Structures, Ltd.
 - h. Quikserv, Inc.
 - i. Ready Access
 - j. Ross Technology Company
 - k. SABIC Innovative Plastics IP BV
- B. Configuration: One fixed-glazed panel.
- C. Framing: Fabricate perimeter framing, mullions, and glazing stops from aluminum as follows:
 - 1. Profile: Manufacturer's standard, with minimum face dimension indicated.
 - a. Minimum Face Dimension: 1-1/4 inches.
 - 2. Depth: Manufacturer's standard.
 - 3. Size: 24 inches wide by 49 inches high.
 - 4. Finish: Anodized satin.
 - 5. Three-sided frame.
 - 6. Corners mitered, welded, and ground smooth.
- D. Head and Jamb Framing: Designed for sealant glazing.
- E. Voice-Communication-Type Glazing: Formed from stainless steel and designed to allow passage of speech at normal speaking volume without distortion.
 - 1. Size: 6-inch round.
- F. Drop-in-Deal Tray:
 - 1. Size: 16.37 x 11 x 1.62 inches.
 - 2. Material: Brushed stainless steel.
- G. Glazing and Glazing Materials:
 - 1. Basis-of-Design Product: Subject to compliance with requirements, provide "SG4" School Guard Glass, or comparable product.
- H. Materials:
 - 1. Mild Steel Plates, Shapes, and Bars: ASTM A36/A36M.
 - 2. Cold-Rolled Steel Sheet: ASTM A1008/A1008M, CS (Commercial Steel), Type B; suitable for exposed applications.

- 3. Metallic-Coated Steel Sheet: ASTM A653/A653M, CS (Commercial Steel), Type B; with G60 zinc (galvanized) or A60 zinc-iron-alloy (galvannealed) coating designation.
- 4. Hot-Rolled Steel Sheet: ASTM A1011/A1011M, CS (Commercial Steel), Type B; free of scale, pitting, or surface defects; pickled and oiled.
- 5. Stainless Steel Sheet, Strip, Plate, and Flat Bars: ASTM A666 or ASTM A240/A240M, austenitic stainless steel, Type 304.
- 6. Aluminum Extrusions: ASTM B221. Provide alloy and temper recommended by manufacturer for strength, corrosion resistance, and application of required finish, but not less than 22,000-psi ultimate tensile strength.
- 7. Aluminum Sheet and Plate: ASTM B209.

2.3 FABRICATION

- A. General: Fabricate security windows to provide a complete system for assembly of components and anchorage of window units.
 - 1. Provide units that are re-glazable from the secure side without dismantling the attack side of framing.
 - 2. Prepare security windows for field glazing unless pre-glazing at the factory is indicated.
- B. Framing: Miter or cope corners the full depth of framing; weld and dress smooth.
 - 1. Fabricate framing with manufacturer's standard, internal opaque armoring in thicknesses required for security windows to comply with force-resistance performance indicated.
- C. Glazing Stops: Finish glazing stops to match security window framing.
 - 1. Attack-Side (Exterior) Glazing Stops: Welded or integral to framing.
 - 2. Secure-Side (Interior) Glazing Stops: Removable, coordinated with glazing indicated.
- D. Welding: Weld components to comply with referenced AWS standard. To greatest extent possible, weld before finishing and in concealed locations to minimize distortion or discoloration of finish. Remove weld spatter and welding oxides from exposed surfaces by descaling or grinding.
- E. Metal Protection: Separate dissimilar metals to protect against galvanic action by painting contact surfaces with primer or by applying sealant or tape recommended by manufacturer for this purpose.
- F. Factory-cut openings in glazing for speaking apertures.

2.4 GENERAL FINISH REQUIREMENTS

- A. Comply with NAAMM/NOMMA 500 for recommendations for applying and designating finishes.
- B. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.

C. Appearance of Finished Work: Noticeable variations in same piece are not acceptable. Variations in appearance of adjoining components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

2.5 ALUMINUM FINISHES

A. Clear Anodic Finish: AAMA 611, AA-M12C22A41, Class I, 0.018 mm or thicker.

2.6 STAINLESS STEEL FINISHES

- A. Surface Preparation: Remove tool and die marks and stretch lines, or blend into finish.
- B. Polished Finishes: Grind and polish surfaces to produce uniform finish, free of cross scratches.
 - 1. Run grain of directional finishes with long dimension of each piece.
 - 2. When polishing is completed, passivate and rinse surfaces. Remove embedded foreign matter and leave surfaces chemically clean.
- C. Stainless Steel Sheet and Plate Finishes:
 - 1. Directional Satin Finish: ASTM A480/A480M, No. 4.

2.7 ACCESSORIES

- A. Recessed Deal Trays: Formed from stainless steel; fabricated in curved shape with exposed flanges for recessed installation into horizontal surface.
 - 1. Clear Opening Size: 12 inches wide by 8 inches deep by 1-1/2 inches high.
- B. Speaking Apertures: Fabricate from stainless steel, designed to allow passage of speech at normal speaking volume without distortion.
 - 1. Shape: Circular.
 - 2. Force Resistance: Same as security window.
- C. Concealed Bolts: ASTM A307, Grade A unless otherwise indicated.
- D. Glazing Strips and Weather Stripping: Manufacturer's standard replaceable components.
 - 1. Compression Type: Molded EPDM or neoprene gaskets complying with ASTM D2000, Designations 2BC415 to 3BC620; molded PVC gaskets complying with ASTM D2287; or molded, expanded EPDM or neoprene gaskets complying with ASTM C509, Grade 4.
- E. Miscellaneous Glazing Materials: Provide material, size, and shape complying with requirements of glass manufacturers and with a proven record of compatibility with surfaces contacted in installation.
 - 1. Cleaners, Primers, and Sealers: Type recommended by sealant or gasket manufacturer.
 - 2. Setting Blocks: Elastomeric material with a Shore A durometer hardness of 85, plus or minus 5. Type recommended in writing by sealant or glass manufacturer.

- 3. Spacers: Elastomeric blocks or continuous extrusions with a Shore A durometer hardness required by glass manufacturer to maintain glass lites in place for installation indicated. Type recommended in writing by sealant or glass manufacturer.
- 4. Edge Blocks: EPDM or silicone with Shore A durometer hardness per manufacturer's written instructions.
- F. Anchors, Clips, and Window Accessories: Stainless steel; hot-dip, zinc-coated steel or iron, complying with ASTM B633; provide sufficient strength to withstand design pressures indicated.
- G. Sealants: For sealants required within fabricated security windows, provide type recommended by manufacturer for joint size and movement. Sealant remains permanently elastic, nonshrinking, and nonmigrating.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of security windows.
- B. Examine roughing-in for embedded and built-in anchors to verify actual locations of security window connections before security window installation.
- C. Prepare written report, endorsed by Installer, listing conditions detrimental to performance of security windows.
- D. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Clean surfaces thoroughly prior to installation.
- B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

3.3 INSTALLATION

- A. Install in accordance with manufacturer's instructions, approved submittals, and in proper relationship with adjacent construction.
- B. Install all equipment plumb, level, rigid and in true alignment.
- C. Set equipment in accordance with the manufacturer's printed recommendations. Use proper anchoring devices for the material to be anchored to. All exposed anchor holes shall be used for anchoring.

SECURITY WINDOWS AND DEAL TRAYS

- D. Anchor frames securely in place to supports. Use attachment methods permitting adjustment for construction tolerances, irregularities, alignment, and expansion and contraction.
- E. Installation Tolerances: Do not exceed the following installation tolerances:
 - 1. Squareness: Plus or minus 1/16 inch measured on a line, 90 degrees from one jamb, at the upper corner of the frame at the other jamb.
 - 2. Alignment: Plus or minus 1/16 inch measure on jambs on a horizontal line parallel to the plane of the wall.
 - 3. Twist: Plus or minus 1/16 inch measured at face corners of jambs on parallel lines perpendicular to the plane of the wall.
 - 4. Plumb: Plus or minus 1/16 inch measured on the jamb at the floor.
- F. Glazed Framing: Provide sealant-glazed framing. Comply with installation requirements in Section 088000 "Glazing."
- G. Removable Glazing Stops and Trim: Fasten components with security fasteners.
- H. Fasteners: Install security windows using fasteners recommended by manufacturer with head style appropriate for installation requirements, strength, and finish of adjacent materials.
- I. Sealants: Comply with requirements in Section 079200 "Joint Sealants" for installing sealants, fillers, and gaskets.

3.4 FIELD QUALITY CONTROL

- A. Inspect installed products to verify compliance with requirements. Prepare inspection reports and indicate compliance with and deviations from the Contract Documents.
- B. Perform additional inspections to determine compliance of replaced or additional work. Prepare inspection reports.
- C. Prepare field quality-control certification that states installed products and their installation comply with requirements in the Contract Documents.

3.5 ADJUSTING

- A. Adjust transaction security windows to provide a tight fit at contact points for smooth operation and a secure enclosure.
- B. Remove and replace defective work, including security windows that are warped, bowed, or otherwise unacceptable.

3.6 CLEANING AND PROTECTION

- A. Clean surfaces promptly after installation of security windows. Take care to avoid damaging the finish. Remove excess glazing and sealant compounds, dirt, and other substances.
- B. Clean glass of pre-glazed security windows promptly after installation. Comply with requirements recommended in writing by glass manufacturer.

SECURITY WINDOWS AND DEAL TRAYS

C. Provide temporary protection to ensure that security windows are without damage at time of Substantial Completion.

END OF SECTION

SECTION 131000 – ARCHITECTURAL ASSEMBLIES

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Package receivers.

1.2 RELATED SECTIONS

- A. Section 051200, Structural Steel Framing.
- B. Section 061000, Rough Carpentry.

1.3 REFERENCES

- A. Underwriters Laboratories (UL):
 - 1. UL 10B Standard for Fire Tests of Door Assemblies.
 - 2. UL 752 Standard for Bullet-Resisting Equipment.

1.4 ACTION SUBMITTALS

- A. Submittals shall comply with the requirements of Section 013300 "Submittal Procedures" and the individual sections specifying the work.
- B. Product Data: For each type of product.
 - 1. Manufacturer's data sheets on each product to be used.
 - 2. Preparation instructions and recommendations.
 - 3. Storage and handling requirements and recommendations.
 - 4. Typical installation methods.
- C. Selection Samples: For each finish product specified, two complete sets of color chips representing manufacturer's full range of available colors and patterns.
- D. Shop Drawings: Include details of materials, construction and finish. Include relationship with adjacent construction

1.5 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section with a minimum five years documented experience.

- B. Installer Qualifications: Company specializing in performing Work of this section with minimum two years documented experience with projects of similar scope and complexity.
- C. Source Limitations: Provide each type of product from a single manufacturing source to ensure uniformity.

1.6 PREINSTALLATION CONFERENCE

A. Convene a conference approximately two weeks before scheduled commencement of the Work. Attendees shall include Architect, Contractor and trades involved. Agenda shall include schedule, responsibilities, critical path items and approvals.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Store and handle in strict compliance with manufacturer's written instructions and recommendations.
- B. Protect from damage due to weather, excessive temperature, and construction operations.

1.8 PROJECT CONDITIONS

A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's recommended limits.

1.9 SEQUENCING

A. Ensure that products of this section are supplied to affected trades in time to prevent interruption of construction progress.

1.10 WARRANTY

A. Manufacturer's Warranty: Provide manufacturer's standard limited warranty.

PART 2 - PRODUCTS

2.1 PACKAGE RECEIVER DEVICES

- A. Basis-of-Design Products: Subject to compliance with requirements, provide CR Laurence Co., Inc.; CRH Americas, Inc., Model SPR1 Package Receiver, or comparable product by one of the following:
 - 1. Armortex.
 - 2. Chicago Bullet Proof Systems.
 - 3. Krieger Specialty Products Company.
 - 4. Overly Door Company.
 - 5. Quikserv, Inc.
- B. Finish: Exposed surfaces to be brushed stainless steel, balance of unit prime painted.

- C. Unit Size, Standard:
 - 1. Interior Clear Dimensions (WxHxD): 15"W x 13.25"H x 15.875"D.
 - 2. Wall Opening (WxH): 15-1/2" x 15-1/2".
 - 3. Maximum Wall Thickness: 11-1/2".
- D. Doors: Interlocking doors permitting only one door to be opened at a time.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Do not begin installation until substrates have been properly constructed and prepared.
- B. If substrate preparation is the responsibility of another installer, notify Architect in writing of unsatisfactory preparation before proceeding.

3.2 PREPARATION

- A. Clean surfaces thoroughly prior to installation.
- B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions

3.3 INSTALLATION

- A. Install in accordance with manufacturer's instructions, approved submittals, and in proper relationship with adjacent construction.
- B. Install all equipment plumb, level, rigid and in true alignment.
- C. Set equipment in accordance with the manufacturer's printed recommendations. Use proper anchoring devices for the material to be anchored to. All exposed anchor holes shall be used for anchoring.
- D. Anchor frames securely in place to supports. Use attachment methods permitting adjustment for construction tolerances, irregularities, alignment, and expansion and contraction.
- E. Installation tolerances: Do not exceed the following installation tolerances:
 - 1. Squareness: Plus or minus 1/16 inch measured on a line, 90 degrees from one jamb, at the upper corner of the frame at the other jamb.
 - 2. Alignment: Plus or minus 1/16 inch measured on jambs on a horizontal line parallel to the plane of the wall
 - 3. Twist: Plus or minus 1/16 inch measured at face corners of jambs on parallel lines perpendicular to the plane of the wall.
 - 4. Plumb: Plus or minus 1/16 inch measured on the jamb at the floor.

F. Adjust installed doors for correct function and smooth operation.

3.4 FIELD QUALITY CONTROL

- A. Field Inspection: Coordinate field inspection in accordance with appropriate sections in Division 01.
- B. Manufacturer's Services: Coordinate manufacturer's services in accordance with appropriate sections in Division 01.

3.5 2.7 CLEANING AND PROTECTION

- A. Clean products in accordance with the manufacturers recommendations.
- B. Touch-up, repair or replace damaged products before Substantial Completion.
- C. Protect installed products until completion of project.

END OF SECTION