

Attachment A - Drawing Sheet A601 Door and Window Schedules

Allies & Ross Management and Development Corporation
IFB#2023-40-G-E-P-M
New Construction of Northview Midrise

DOOR SCHEDULE - BUILDING														
DOOR NUMBER	ROOM	SIZE	DOOR TYPE	LABEL	LEAF				FRAME		HARDWARE			NOTES
					MATERIAL	COLOR	THICKNESS	GLAZING	MATERIAL	COLOR	LOCKSET	ACCESSORIES		
100A	VESTIBULE	3'-0" x 6'-8"	5	S	AL/GL	P1	1 3/4"	TEMP. INS.	HM-INSULATED	P3	PASSAGE (F75)	CLOSER; STOP; HOLD; KICKPLATES BOTH SIDES; CONTINUOUS HINGE; THRESHOLD; PANIC HARDWARE; DOOR SWEEP; WEATHER STRIPPING	Use thermally broken door frames.	
100B	VESTIBULE	3'-0" x 6'-8"	9	S	AL/GL	P1	1 3/4"	TEMP. INS.	HM-INSULATED	P3	ENTRANCE (F109)	CLOSER; STOP; HOLD; KICKPLATES BOTH SIDES; CONTINUOUS HINGE; FOB SYSTEM W/ ELEC. STRIKE; PANIC HARDWARE; DOOR SWEEP; WEATHER STRIPPING	See Door Types for Transom.	
101aA	HALLWAY	6'-0" x 6'-8"	3	S	AL/GL	P1	1 3/4"	TEMP. INS.	HM-INSULATED	P3	ENTRANCE (F109)	CLOSER; STOP; HOLD; KICKPLATES BOTH SIDES; CONTINUOUS HINGE; FOB SYSTEM W/ ELEC. STRIKE; THRESHOLD; PANIC HARDWARE; DOOR SWEEP; WEATHER STRIPPING	Use thermally broken door frames.	
101aB	HALLWAY	3'-0" x 6'-8"	7	C, S	SCW	P1	1 3/4"		WOOD	P3	PRIVACY (F76)	CLOSER; STOP; HOLD; KICKPLATES BOTH SIDES; HINGE 1 1/2 PAIR; SMOKE GASKET		
101aA	HALLWAY	3'-0" x 6'-8"	7	C, S	SCW	P1	1 3/4"		WOOD	P3	PRIVACY (F76)	CLOSER; STOP; HOLD; KICKPLATES BOTH SIDES; HINGE 1 1/2 PAIR; SMOKE GASKET		
101aA	HALLWAY	3'-0" x 6'-8"	7	C, S	SCW	P1	1 3/4"		WOOD	P3	PRIVACY (F76)	CLOSER; STOP; HOLD; KICKPLATES BOTH SIDES; HINGE 1 1/2 PAIR; SMOKE GASKET		
102A	COMMUNITY ROOM	3'-0" x 6'-8"	5	S	AL/GL	P1	1 3/4"	TEMP. INS.	HM-INSULATED	P3	EXIT	CLOSER; STOP; HOLD; KICKPLATES BOTH SIDES; CONTINUOUS HINGE; THRESHOLD; PANIC HARDWARE; DOOR SWEEP; WEATHER STRIPPING	Use thermally broken door frames.	
102B	COMMUNITY ROOM	3'-0" x 6'-8"	8	C, S	SCW	P1	1 3/4"		WOOD	P3	PASSAGE (F75)	CLOSER; STOP; HOLD; KICKPLATES BOTH SIDES; HINGE 1 1/2 PAIR; SMOKE GASKET	See Door Types for Transom.	
102C	COMMUNITY ROOM	3'-0" x 6'-8"	8	C, S	SCW	P1	1 3/4"		WOOD	P3	PASSAGE (F75)	CLOSER; STOP; HOLD; KICKPLATES BOTH SIDES; HINGE 1 1/2 PAIR; SMOKE GASKET		
103A	SOCIAL SERVICES	3'-0" x 6'-8"	7	NONE	SCW	P1	1 3/4"		WOOD	P3	OFFICE (F82)	CLOSER; STOP; HOLD; KICKPLATES BOTH SIDES; HINGE 1 1/2 PAIR		
104A	MULTIPURPOSE ROOM	3'-0" x 6'-8"	8	C, S	SCW	P1	1 3/4"		WOOD	P3	OFFICE (F82)	CLOSER; STOP; HOLD; KICKPLATES BOTH SIDES; HINGE 1 1/2 PAIR; SMOKE GASKET		
105A	ADMINISTRATION OFFICE	3'-0" x 6'-8"	7	NONE	SCW	P1	1 3/4"		WOOD	P3	OFFICE (F82)	CLOSER; STOP; HOLD; KICKPLATES BOTH SIDES; HINGE 1 1/2 PAIR; SMOKE GASKET		
105B	ADMINISTRATION OFFICE	3'-0" x 6'-8"	7	C, S	SCW	P1	1 3/4"		WOOD	P3	OFFICE (F82)	CLOSER; STOP; HOLD; KICKPLATES BOTH SIDES; HINGE 1 1/2 PAIR; SMOKE GASKET		
106A	DEVELOPMENT FACILITIES AND MANGEMENT	3'-0" x 6'-8"	7	C, S	SCW	P1	1 3/4"		WOOD	P3	STOREROOM (F86)	CLOSER; STOP; HOLD; KICKPLATES BOTH SIDES; HINGE 1 1/2 PAIR; SMOKE GASKET		
106B	DEVELOPMENT FACILITIES AND MANGEMENT	6'-0" x 6'-8"	2	S	IM	P1	1 3/4"		HM-INSULATED	P3	ENTRANCE (F109)	CLOSER; STOP; HOLD; KICKPLATES BOTH SIDES; CONTINUOUS HINGE; FOB SYSTEM W/ ELEC. STRIKE; THRESHOLD; PANIC HARDWARE; DOOR SWEEP; WEATHER STRIPPING	Use thermally broken door frames.	
106aA	TRASH ROOM	3'-0" x 6'-8"	7	B, S	HM	P1	1 3/4"		HM	P3	PASSAGE (F75)	CLOSER; STOP; HOLD; KICKPLATES BOTH SIDES; HINGE 1 1/2 PAIR		
106aB	TRASH ROOM	6'-0" x 6'-8"	2	S	IM	P1	1 3/4"		HM-INSULATED	P3	EXIT	CLOSER; STOP; HOLD; KICKPLATES BOTH SIDES; CONTINUOUS HINGE; FOB SYSTEM W/ ELEC. STRIKE; THRESHOLD; PANIC HARDWARE; DOOR SWEEP; WEATHER STRIPPING	Use thermally broken door frames.	
107A	BIKE PARKING ROOM	3'-0" x 6'-8"	8	C, S	SCW	P1	1 3/4"	TEMP.	WOOD	P3	PASSAGE (F75)	CLOSER; STOP; HOLD; KICKPLATES BOTH SIDES; HINGE 1 1/2 PAIR; SMOKE GASKET		
108A	COMPUTER ROOM	3'-0" x 6'-8"	8	C, S	SCW	P1	1 3/4"		WOOD	P3	PASSAGE (F75)	CLOSER; STOP; HOLD; KICKPLATES BOTH SIDES; HINGE 1 1/2 PAIR; SMOKE GASKET		
109A	TRASH CHUTE ROOM	3'-0" x 6'-8"	7	B, S	SCW	P1	1 3/4"		WOOD	P3	PASSAGE (F75)	CLOSER; STOP; HOLD; KICKPLATES BOTH SIDES; HINGE 1 1/2 PAIR; SMOKE GASKET	Self-closing upon the detection of smoke.	
109aA	MECH. CL.	3'-0" x 6'-8"	7	C, S	SCW	P1	1 3/4"		WOOD	P3	STOREROOM (F86)	CLOSER; STOP; HOLD; HINGE 1 1/2 PAIR; SMOKE GASKET		
111A	UTILITIES	3'-0" x 6'-8"	7	C, S	HM	P1	1 3/4"		HM	P3	STOREROOM (F86)	CLOSER; STOP; HOLD; KICKPLATES BOTH SIDES; HINGE 1 1/2 PAIR; SMOKE GASKET		
111B	UTILITIES	3'-0" x 6'-8"	1	S	IM	P1	1 3/4"		HM-INSULATED	P3	EXIT	CLOSER; STOP; HOLD; KICKPLATES BOTH SIDES; CONTINUOUS HINGE; PANIC HARDWARE; DOOR SWEEP; WEATHER STRIPPING	Use thermally broken door frames.	
117A	NORTH STAIR TOWER	3'-0" x 6'-8"	7	B, S	HM	P1	1 3/4"		HM	P3	EXIT	CLOSER; STOP; HOLD; KICKPLATES BOTH SIDES; CONTINUOUS HINGE; PANIC HARDWARE; SMOKE GASKET		
117B	NORTH STAIR TOWER	3'-0" x 6'-8"	1	S	IM	P1	1 3/4"		HM-INSULATED	P3	EXIT	CLOSER; STOP; HOLD; KICKPLATES BOTH SIDES; CONTINUOUS HINGE; THRESHOLD; PANIC HARDWARE; DOOR SWEEP; WEATHER STRIPPING	Use thermally broken door frames.	
118A	SOUTH STAIR TOWER	3'-0" x 6'-8"	1	S	IM	P1	1 3/4"		HM-INSULATED	P3	EXIT	CLOSER; STOP; HOLD; KICKPLATES BOTH SIDES; CONTINUOUS HINGE; THRESHOLD; PANIC HARDWARE; DOOR SWEEP; WEATHER STRIPPING	Use thermally broken door frames.	
120A	WATER UTILITY ROOM	3'-0" x 6'-8"	4	S	IM; GLASS	P1	1 3/4"		HM-INSULATED	P3	STOREROOM (F86)	CLOSER; STOP; HOLD; CONTINUOUS HINGE; THRESHOLD; DOOR SWEEP; WEATHER STRIPPING	Use thermally broken door frames.	
150A	COMMERCIAL SPACE	3'-0" x 6'-8"	6	S	AL/GL	P1	1 3/4"		AL	P3	ENTRANCE (F109)	CLOSER; STOP; HOLD; KICKPLATES BOTH SIDES; CONTINUOUS HINGE; THRESHOLD; PANIC HARDWARE; DOOR SWEEP; WEATHER STRIPPING	See Door Types for Transom.	
150B	COMMERCIAL SPACE	3'-0" x 6'-8"	6	S	AL/GL	P1	1 3/4"		AL	P3	ENTRANCE (F109)	CLOSER; STOP; HOLD; KICKPLATES BOTH SIDES; CONTINUOUS HINGE; THRESHOLD; PANIC HARDWARE; DOOR SWEEP; WEATHER STRIPPING	See Door Types for Transom.	
150C	COMMERCIAL SPACE	3'-0" x 6'-8"	6	S	AL/GL	P1	1 3/4"		AL	P3	ENTRANCE (F109)	CLOSER; STOP; HOLD; KICKPLATES BOTH SIDES; CONTINUOUS HINGE; THRESHOLD; PANIC HARDWARE; DOOR SWEEP; WEATHER STRIPPING	See Door Types for Transom.	
150D	COMMERCIAL SPACE	3'-0" x 6'-8"	6	S	AL/GL	P1	1 3/4"		AL	P3	EXIT	CLOSER; STOP; HOLD; KICKPLATES BOTH SIDES; CONTINUOUS HINGE; THRESHOLD; PANIC HARDWARE; DOOR SWEEP; WEATHER STRIPPING	See Door Types for Transom.	
150E	COMMERCIAL SPACE	3'-0" x 6'-8"	6	S	AL/GL	P1	1 3/4"		AL	P3	EXIT	CLOSER; STOP; HOLD; KICKPLATES BOTH SIDES; CONTINUOUS HINGE; THRESHOLD; PANIC HARDWARE; DOOR SWEEP; WEATHER STRIPPING	See Door Types for Transom.	
200A	HALLWAY	3'-0" x 6'-8"	7	B, S	HM	P1	1 3/4"		HM	P3	EXIT	CLOSER; STOP; HOLD; KICKPLATES BOTH SIDES; CONTINUOUS HINGE; PANIC HARDWARE; SMOKE GASKET		
200A	HALLWAY	3'-0" x 6'-8"	7	B, S	HM	P1	1 3/4"		HM	P3	EXIT	CLOSER; STOP; HOLD; KICKPLATES BOTH SIDES; CONTINUOUS HINGE; PANIC HARDWARE; SMOKE GASKET		
210A	TRASH CHUTE ROOM	3'-0" x 6'-8"	7	B, S	SCW	P1	1 3/4"		WOOD	P3	PASSAGE (F75)	CLOSER; STOP; HOLD; KICKPLATES BOTH SIDES; HINGE 1 1/2 PAIR; SMOKE GASKET	Self-closing upon the detection of smoke.	
210aA	MECH. CL.	3'-0" x 6'-8"	7	C, S	SCW	P1	1 3/4"		WOOD	P3	STOREROOM (F86)	CLOSER; STOP; HOLD; HINGE 3 PAIR; SMOKE GASKET		
310A	TRASH CHUTE ROOM	3'-0" x 6'-8"	7	B, S	SCW	P1	1 3/4"		WOOD	P3	PASSAGE (F75)	CLOSER; STOP; HOLD; KICKPLATES BOTH SIDES; HINGE 1 1/2 PAIR; SMOKE GASKET	Self-closing upon the detection of smoke.	
310aA	MECH. CL.	3'-0" x 6'-8"	7	C, S	SCW	P1	1 3/4"		WOOD	P3	STOREROOM (F86)	CLOSER; STOP; HOLD; HINGE 3 PAIR; SMOKE GASKET		
317A	NORTH STAIR TOWER	3'-0" x 6'-8"	7	B, S	HM	P1	1 3/4"		HM	P3	EXIT	CLOSER; STOP; HOLD; KICKPLATES BOTH SIDES; CONTINUOUS HINGE; PANIC HARDWARE; SMOKE GASKET		
318A	SOUTH STAIR TOWER	3'-0" x 6'-8"	7	B, S	HM	P1	1 3/4"		HM	P3	EXIT	CLOSER; STOP; HOLD; KICKPLATES BOTH SIDES; CONTINUOUS HINGE; PANIC HARDWARE; SMOKE GASKET		
400A	HALLWAY	3'-0" x 6'-8"	7	B, S	HM	P1	1 3/4"		HM	P3	EXIT	CLOSER; STOP; HOLD; KICKPLATES BOTH SIDES; CONTINUOUS HINGE; PANIC HARDWARE; SMOKE GASKET		
400A	HALLWAY	3'-0" x 6'-8"	7	B, S	HM	P1	1 3/4"		HM	P3	EXIT	CLOSER; STOP; HOLD; KICKPLATES BOTH SIDES; CONTINUOUS HINGE; PANIC HARDWARE; SMOKE GASKET		
402A	COMMUNAL ROOM	3'-0" x 6'-8"	8	C, S	SCW	P1	1 3/4"	TEMP. INS.	WOOD	P3	PASSAGE (F75)	CLOSER; STOP; HOLD; KICKPLATES BOTH SIDES; HINGE 1 1/2 PAIR; PANIC HARDWARE; SMOKE GASKET		
402B	COMMUNAL ROOM	3'-0" x 6'-8"	5	S	IM; GLASS	P1	1 3/4"	TEMP. INS.	HM-INSULATED	P3	EXIT	CLOSER; STOP; HOLD; KICKPLATES BOTH SIDES; CONTINUOUS HINGE; THRESHOLD; PANIC HARDWARE; DOOR SWEEP; WEATHER STRIPPING	Use thermally broken door frames.	
410A	TRASH CHUTE ROOM	3'-0" x 6'-8"	7	B, S	SCW	P1	1 3/4"		HM	P3	PASSAGE (F75)	CLOSER; STOP; HOLD; KICKPLATES BOTH SIDES; HINGE 1 1/2 PAIR; SMOKE GASKET	Self-closing upon the detection of smoke.	
410aA	MECH. CL.	3'-0" x 6'-8"	7	C, S	SCW	P1	1 3/4"		WOOD	P3	STOREROOM (F86)	CLOSER; STOP; HOLD; HINGE 1 1/2 PAIR; SMOKE GASKET		
415A	LAUNDRY ROOM	3'-0" x 6'-8"	8	C, S	SCW	P1	1 3/4"	TEMP. INS.	WOOD	P3	PASSAGE (F75)	CLOSER; STOP; HOLD; KICKPLATES BOTH SIDES; HINGE 1 1/2 PAIR; SMOKE GASKET		
415B	LAUNDRY ROOM	3'-0" x 6'-8"	4	S	IM; GLASS	P1	1 3/4"		HM-INSULATED	P3	EXIT	CLOSER; STOP; HOLD; KICKPLATES BOTH SIDES; CONTINUOUS HINGE; FOB SYSTEM W/ ELEC. STRIKE; THRESHOLD; PANIC HARDWARE; DOOR SWEEP; WEATHER STRIPPING	Use thermally broken door frames.	

DOOR NOTES

- ALL HARDWARE SHALL COMPLY WITH THE 2015 INTERNATIONAL BUILDING CODE.
- REFER TO SPECIFICATIONS FOR DETAILED HARDWARE SETS.
- DOOR HARDWARE SHALL HAVE A SHAPE THAT IS EASY TO GRASP W/ ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING.
- ALL EGRESS DOORS TO BE READILY OPENABLE FROM THE EGRESS SIDE WITHOUT THE USE OF KEYS OR SPECIAL KNOWLEDGE PER STATE AND LOCAL CODES.
- ALL BUILDING EGRESS DOORS SHALL BE EQUIPPED W/ APPROVED PANIC HARDWARE AND CLOSERS. SUCH HARDWARE SHALL CAUSE THE DOOR TO RELEASE AND THE LEAF TO OPEN WHEN A FORCE OF 5 POUNDS IS APPLIED IN THE DIRECTION OF EGRESS, PER STATE AND LOCAL CODES.
- CLOSERS MUST BE EQUIPPED W/ COORDINATORS AS REQUIRED.
- HINGES SHALL BE MORTISE UNLESS NOTED OTHERWISE.
- TEMPERED SAFETY GLAZING REQUIRED AT DOORS, DOOR TRANSOMS, AND SIDELIGHTS.
- TEMPERED SAFETY GLAZING REQUIRED AT DOORS, DOOR TRANSOMS, AND SIDELIGHTS.
- DOOR KICK-DOWNS ARE TO BE USED ONLY FOR DOORS REQUIRING HOLD OPEN FUNCTION. CLOSERS W/ A HOLD OPEN ARE NOT PERMITTED.
- HARDWARE SHOP DRAWINGS TO BE SUBMITTED TO THE ARCHITECT FOR APPROVAL.
- COORDINATE THE REQUIRED ROUGH OPENINGS OF ALL THE DOORS AND WINDOWS.
- A KNOX BOX IS TO BE FLUSH MOUNTED NEAR THE ENTRY DOORS. CONFIRM FINAL LOCATION W/ FIRE MARSHAL AND OWNER.
- ALL UTILITY ROOM DOORS ARE TO BE KEYPAD ALIKE AND TURNED OVER TO MANAGEMENT.
- COORDINATE ALL CORES/KEYING PRIOR TO TURNOVER TO OWNER.
- LOCKSET SHALL BE OPERATED FROM THE INTERIOR SIDE WITHOUT ANY SPECIAL KNOWLEDGE EFFORT OR KEY.
- DOORS WITH AN "S" LABEL SHALL BE SELF-CLOSING OR AUTOMATIC-CLOSING UPON THE DETECTION OF SMOKE.

seal

general notes

- Any conflicts in the drawings or between new and existing construction shall be referred to the Architect.
- Contractor shall verify all dimensions and existing conditions in the field and shall advise Fukui Architects, Pc of any discrepancies between drawings, additions, deletions, or alterations to any and all conditions prior to proceeding with any phase of work. Do not scale drawings.
- All work shall be installed in accordance with applicable codes and regulations.
- Contractor shall be responsible for the patching, repairing, and preparations of all existing floor, wall, and ceiling surfaces as required to receive scheduled finishes.
- All items shown on drawings are finished construction assemblies. Contractor shall provide and install all material required for finished assemblies.
- All reports, plans, specifications, computer files, field data, notices, and other documents and instruments prepared by the Architect as instruments of service shall remain the property of the Architect. The Architect shall retain all common law statutory, and other reserved rights, including the copyright thereto.

revisions

1 REVISED 2024/01/17

ANSI MORTISE	ANSI BORED	COMMON NAME(S)	OPERATING OUTSIDE TRIM	TURNING OUTSIDE KEY	TURNING INSIDE KEY	TURNING INSIDE THUMBTURN / PUSH BUTTON
F09	F88	EXIT	OPENS IF UNLOCKED	UNLOCKS	LOCKS	N/A
F22	F76	PRIVACY LOCK	OPENS IF UNLOCKED	N/A	N/A	LOCKS
F05	F84	CLASSROOM	OPENS IF UNLOCKED	UNLOCKS / LOCKS	N/A	N/A
F13	F90	DORMITORY	OPENS IF UNLOCKED	UNLOCKS / LOCKS	N/A	LOCKS
F08/F10	F81	ENTRANCE	OPENS IF UNLOCKED	UNLOCKS / LOCKS	N/A	UNLOCKS / LOCKS
F15	F93	HOTEL	NO EFFECT	UNLOCKS IF THUMBTURN NOT SET	N/A	UNLOCKS / LOCKS DEADBOLT
F04	F82	OFFICE	OPENS IF UNLOCKED	UNLOCKS / LOCKS	N/A	UNLOCKS / LOCKS
F01	F75	PASSAGE	OPENS AT ALL TIMES	N/A	N/A	N/A
F14	F91	UTILITY ROOM	OPENS IF UNLOCKED	UNLOCKS / LOCKS	N/A	N/A
F07	F86	STOREROOM	NO EFFECT	OPENS	N/A	N/A
		DOUBLE CYLINDER DEADBOLT	N/A	UNLOCKS / LOCKS	N/A	N/A
		SINGLE CYLINDER DEADBOLT	N/A	UNLOCKS / LOCKS	N/A	UNLOCKS / LOCKS

ABBREVIATIONS:
 CW: ALUMINUM CLAD WOOD
 HM: HOLLOW METAL
 SCW-SG: SOLID CORE STAIN GRADE WOOD VENEER
 SCW-PG: SOLID CORE WOOD - PAINT GRADE
 GL: GLASS
 IM: INSULATED METAL
 AL/GC: ALUMINUM & GLASS
 PLAM: PLASTIC LAMINATE

project title

Owner:
 HACP
 200 Ross Street
 Pittsburgh, PA, 15219

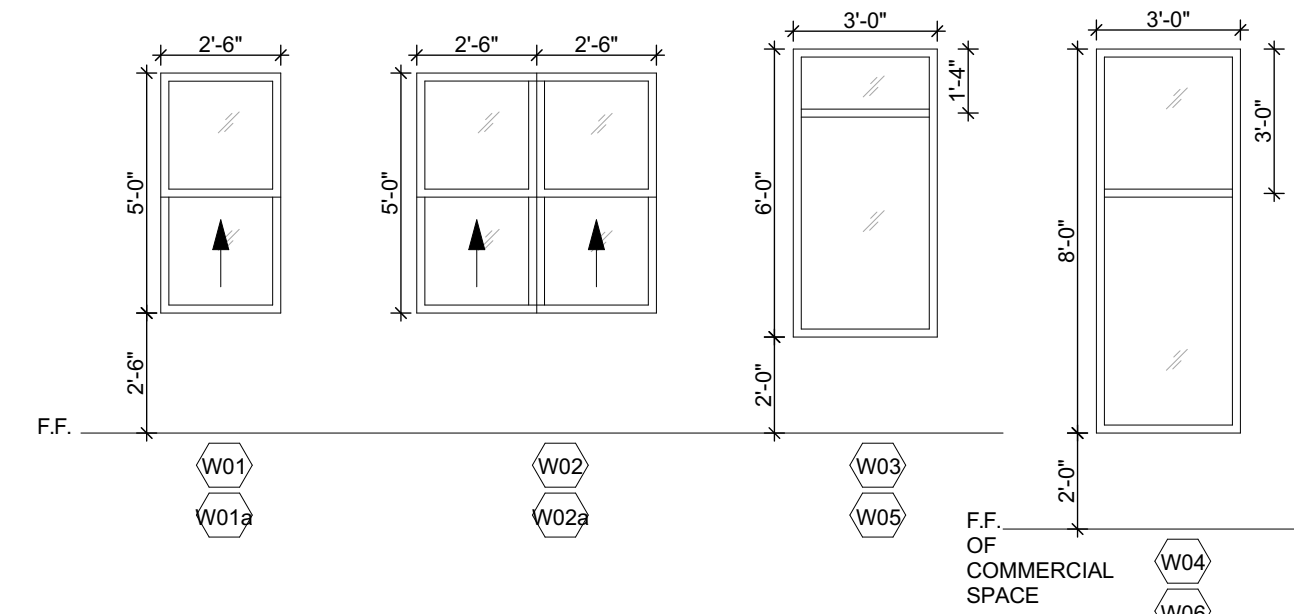
Client:
 Allies & Ross Management and
 Development Corporation (ARMDC)
 200 Ross Street
 Pittsburgh, PA 15219

Project Location:
 Northview Heights Midrise
 246 Penfort Street
 Pittsburgh, PA 15214

drawing title

DOOR AND WINDOW SCHEDULES

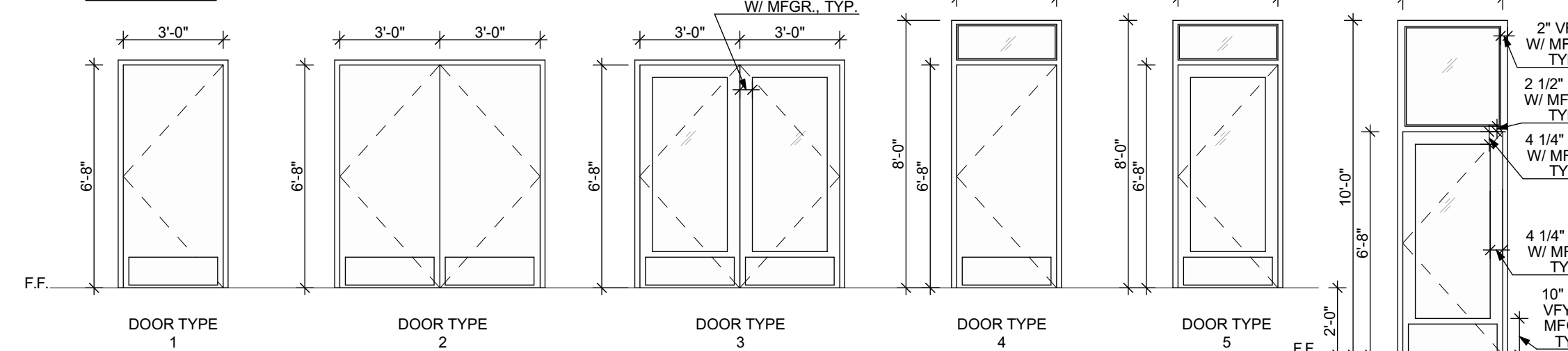
WINDOW SCHEDULE									
ID	SIZE		SILL HEIGHT A.F.F.	TYPE	FRAME MATERIAL	LINTEL	VENTING	TEMPERED	NOTES
	WIDTH	HEIGHT							
W01	2'-6"	5'-0"	2'-6"	SINGLE HUNG	FIBERGLASS		<input checked="" type="checkbox"/>	<input type="checkbox"/>	Only tempered glazing in
W01a	2'-6"	5'-0"	2'-6"	SINGLE HUNG	FIBERGLASS		<input checked="" type="checkbox"/>	<input type="checkbox"/>	Located in Type A Units: Provide accessible opening hardware.
W02	5'-0"	5'-0"	2'-6"	SINGLE HUNG	FIBERGLASS		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
W02a	5'-0"	5'-0"	2'-6"	SINGLE HUNG	FIBERGLASS		<input checked="" type="checkbox"/>	<input type="checkbox"/>	Located in Type A Units: Provide accessible opening hardware.
W02a	5'-0"	5'-0"	2'-6"	SINGLE HUNG	FIBERGLASS		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Only tempered glazing in Stair tower locations as noted on the General Floor Plans.
W03	3'-0"	6'-0"	2'-0"	FIXED	THERMALLY BROKEN ALUMINUM		<input type="checkbox"/>	<input type="checkbox"/>	
W04	3'-0"	8'-0"	2'-0"	FIXED	THERMALLY BROKEN ALUMINUM		<input type="checkbox"/>	<input type="checkbox"/>	
W05	3'-0"	6'-0"	2'-0"	FIXED	THERMALLY BROKEN ALUMINUM		<input type="checkbox"/>	<input checked="" type="checkbox"/>	
W06	3'-0"	8'-0"	2'-0"	FIXED	THERMALLY BROKEN ALUMINUM		<input type="checkbox"/>	<input checked="" type="checkbox"/>	



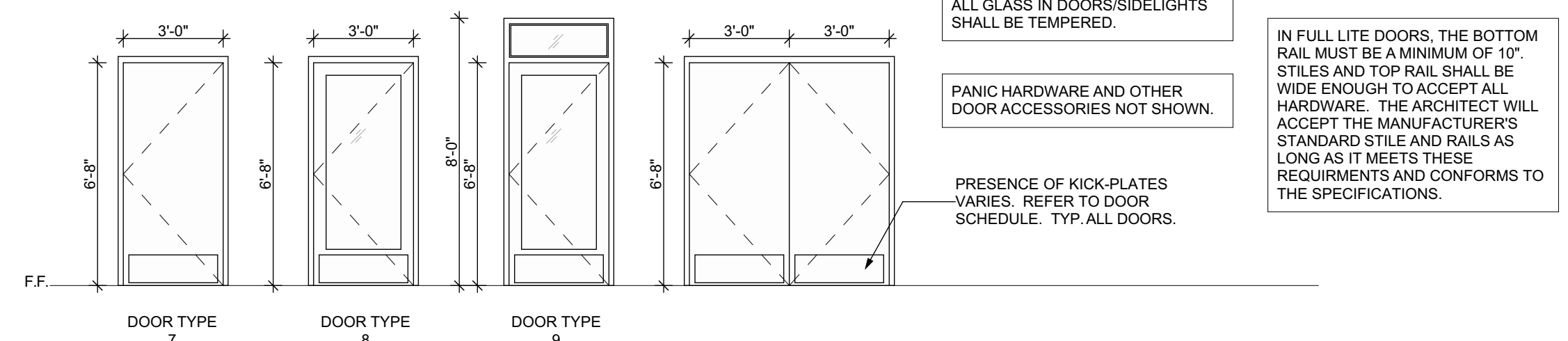
FENESTRATION PERFORMANCE:

DWELLING UNIT WINDOWS: U-VALUE 0.27, SHGC 0.40
 COMMON SPACE FIXED WINDOWS: U-VALUE 0.36, SHGC 0.40
 COMMON SPACE OPERABLE WINDOWS: U-VALUE 0.43, SHGC 0.40
 COMMON SPACE GLAZED ENTRANCE DOORS: U-VALUE .73, SHGC 0.40

EXTERIOR



INTERIOR



ALL GLASS IN DOORS/SIDELIGHTS SHALL BE TEMPERED.

Attachment B - Specification Section 08 41 13 Aluminum-Framed Entrances and Storefronts

Allies & Ross Management and Development Corporation
IFB#2023-40-G-E-P-M
New Construction of Northview Midrise

SECTION 08 41 13 - ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Aluminum-framed storefront systems.
2. Aluminum-framed entrance door systems.

1.2 PREINSTALLATION MEETINGS

- ##### A. Preinstallation Conference: Conduct conference at Project site .

1.3 ACTION SUBMITTALS

- ##### A. Product Data: For each type of product.

- ##### B. Shop Drawings: For aluminum-framed entrances and storefronts. Include plans, elevations, sections, full-size details, and attachments to other work.

1. Show connection to and continuity with adjacent thermal, weather, air, and vapor barriers.
2. Include point-to-point wiring diagrams.

- ##### C. Samples: For each type of exposed finish required.

1.4 INFORMATIONAL SUBMITTALS

- ##### A. Energy Performance Certificates: NFRC-certified energy performance values from manufacturer.

- ##### B. Product test reports.

- ##### C. Sample warranties.

1.5 CLOSEOUT SUBMITTALS

- ##### A. Operation and maintenance data.

1.6 QUALITY ASSURANCE

- ##### A. Qualifications:

1. Installers: An entity that employs installers and supervisors who are trained and approved by manufacturer and that employs a qualified glazing contractor for this Project who is certified under the North American Contractor Certification Program (NACC) for Architectural Glass & Metal (AG&M) contractors.

1.7 WARRANTY

- A. Special Warranty: Manufacturer agrees to repair or replace components of aluminum-framed entrances and storefronts that do not comply with requirements or that fail in materials or workmanship within specified warranty period.
 1. Warranty Period: 10 years from date of Substantial Completion.
- B. Special Finish Warranty, Factory-Applied Finishes: Standard form in which manufacturer agrees to repair finishes or replace aluminum that shows evidence of deterioration of baked-enamel, powder-coat, or organic finishes within specified warranty period.
 1. Warranty Period: 20 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. General Performance: Comply with performance requirements specified, as determined by testing of aluminum-framed entrances and storefronts representing those indicated for this Project without failure due to defective manufacture, fabrication, installation, or other defects in construction.
 1. Aluminum-framed entrances and storefronts shall withstand movements of supporting structure, including, but not limited to, twist, column shortening, long-term creep, and deflection from uniformly distributed and concentrated live loads.
 2. Failure also includes the following:
 - a. Thermal stresses transferring to building structure.
 - b. Glass breakage.
 - c. Noise or vibration created by wind and thermal and structural movements.
 - d. Loosening or weakening of fasteners, attachments, and other components.
 - e. Failure of operating units.
- B. Structural Loads:
 1. Wind Loads: As indicated on Drawings.
 2. Other Design Loads: As indicated on Drawings .
- C. Deflection of Framing Members Supporting Glass: At design wind load, as follows:
 1. Deflection Normal to Wall Plane: Limited to 1/175 of clear span for spans of up to 13 feet 6 inches and to 1/240 of clear span plus 1/4 inch for spans greater than 13 feet 6 inches .

2. Deflection Parallel to Glazing Plane: Limited to amount not exceeding that which reduces glazing bite to less than 75 percent of design dimension and that which reduces edge clearance between framing members and glazing or other fixed components to less than 1/8 inch .
 - a. Operable Units: Provide a minimum 1/16-inch clearance between framing members and operable units.
 3. Cantilever Deflection: Limited to $2L/175$ at unsupported cantilevers.
- D. Structural: Test in accordance with ASTM E330/E330M as follows:
1. When tested at positive and negative wind-load design pressures, storefront assemblies, including entrance doors, do not evidence deflection exceeding specified limits.
 2. When tested at 150 percent of positive and negative wind-load design pressures, storefront assemblies, including entrance doors and anchorage, do not evidence material failures, structural distress, or permanent deformation of main framing members exceeding 0.2 percent of span.
 3. Test Durations: As required by design wind velocity, but not less than 10 seconds.
- E. Water Penetration under Static Pressure: Test in accordance with ASTM E331 as follows:
1. No evidence of water penetration through fixed glazing and framing areas, including entrance doors, when tested in accordance with a minimum static-air-pressure differential of 20 percent of positive wind-load design pressure, but not less than 10 lbf/sq. ft. .
- F. Energy Performance: Certified and labeled by manufacturer for energy performance as follows:
1. Thermal Transmittance (U-factor):
 - a. Fixed Glazing and Framing Areas: U-factor for the system of not more than 0.36 Btu/sq. ft. x h x deg F as determined in accordance with NFRC 100.
 - b. Entrance Doors: U-factor of not more than 0.68 Btu/sq. ft. x h x deg F as determined in accordance with NFRC 100.
 2. Solar Heat-Gain Coefficient (SHGC):
 - a. Fixed Glazing and Framing Areas: SHGC for the system of not more than 0.40 as determined in accordance with NFRC 200.
 - b. Entrance Doors: SHGC of not more than 0.40 as determined in accordance with NFRC 200.
 3. Air Leakage:
 - a. Fixed Glazing and Framing Areas: Air leakage for the system of not more than 0.06 cfm/sq. ft. at a static-air-pressure differential of 6.24 lbf/sq. ft. when tested in accordance with ASTM E283.
 - b. Entrance Doors: Air leakage of not more than 1.0 cfm/sq. ft. at a static-air-pressure differential of 1.57 lbf/sq. ft..
 4. Condensation Resistance Factor (CRF):
 - a. Fixed Glazing and Framing Areas: CRF for the system of not less than 55 as determined in accordance with AAMA 1503.
 - b. Entrance Doors: CRF of not less than 63 as determined in accordance with AAMA 1503.

2.2 STOREFRONT SYSTEMS

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
1. Kawneer Company, Inc.; Arconic Corporation.
 2. Trulite Glass & Aluminum Solutions, LLC.
 3. Tubelite Inc.
 4. U.S. Aluminum; C.R. Laurence Co., Inc.; CRH Americas, Inc.
 5. YKK AP America Inc.
- B. Framing Members: Manufacturer's extruded- or formed-aluminum framing members of thickness required and reinforced as required to support imposed loads.
1. Exterior Framing Construction: Thermally broken .
 2. Interior Vestibule Framing Construction: Nonthermal .
 3. Glazing System: Retained mechanically with gaskets on four sides.
 4. Finish: .
 5. Fabrication Method: Field-fabricated stick system.
 6. Aluminum: Alloy and temper recommended by manufacturer for type of use and finish indicated.
 7. Steel Reinforcement: As required by manufacturer.
- C. Backer Plates: Manufacturer's standard, continuous backer plates for framing members, if not integral, where framing abuts adjacent construction.
- D. Brackets and Reinforcements: Manufacturer's standard high-strength aluminum with nonstaining, nonferrous shims for aligning system components.

2.3 ENTRANCE DOOR SYSTEMS

- A. 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:
1. Kawneer Company, Inc.; Arconic Corporation.
 2. Trulite Glass & Aluminum Solutions, LLC.
 3. Tubelite Inc.
 4. YKK AP America Inc.
- B. Entrance Doors: Manufacturer's standard glazed entrance doors for manual-swing or automatic operation.
1. Door Construction: 1-3/4-inch overall thickness, with minimum 0.125-inch- thick, extruded-aluminum tubular rail and stile members. Mechanically fasten corners with reinforcing brackets that are deeply penetrated and fillet welded or that incorporate concealed tie rods.
 - a. Thermal Construction: High-performance plastic connectors separate aluminum members exposed to the exterior from members exposed to the interior .
 2. Door Design: Wide stile; 5-inch nominal width .

3. Glazing Stops and Gaskets: Square , snap-on, extruded-aluminum stops and preformed gaskets.
 - a. Provide nonremovable glazing stops on outside of door.

2.4 ENTRANCE DOOR HARDWARE

- A. General: Provide entrance door hardware and entrance door hardware sets indicated in door and frame schedule for each entrance door, to comply with requirements in this Section.
 1. Sequence of Operation: Provide electrified door hardware function, sequence of operation, and interface with other building control systems indicated.
 2. Opening-Force Requirements:
 - a. Egress Doors: Not more than 15 lbf to release the latch and not more than 30 lbf to set the door in motion and not more than 15 lbf to open the door to its minimum required width.
 - b. Accessible Interior Doors: Not more than 5 lbf to fully open door.
- B. Designations: Requirements for design, grade, function, finish, quantity, size, and other distinctive qualities of each type of entrance door hardware are indicated in "Entrance Door Hardware Sets" Article. Products are identified by using entrance door hardware designations as follows:
 1. Named Manufacturers' Products: Manufacturer and product designation are listed for each door hardware type required for the purpose of establishing minimum requirements. Manufacturers' names are abbreviated in "Entrance Door Hardware Sets" Article.
 2. References to BHMA Standards: Provide products complying with these standards and requirements for description, quality, and function.
- C. Continuous-Gear Hinges: BHMA A156.26.
- D. Panic Exit Devices: BHMA A156.3, Grade 1, listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for panic protection, based on testing in accordance with UL 305.
- E. Cylinders:
 1. As specified in Section 08 71 00 "Door Hardware."
 2. BHMA A156.5, Grade 1.
 - a. Keying: Master key system. Permanently inscribe each key with a visual key control number and include notation "DO NOT DUPLICATE" .
- F. Strikes: Provide strike with black-plastic dust box for each latch or lock bolt; fabricated for aluminum framing.
- G. Operating Trim: BHMA A156.6.
- H. Closers: BHMA A156.4, Grade 1, with accessories required for a complete installation, sized as required by door size, exposure to weather, and anticipated frequency of use; adjustable to comply with field conditions and requirements for opening force.

- I. Door Stops: BHMA A156.16, Grade 1, floor or wall mounted, as appropriate for door location indicated, with integral rubber bumper.
- J. Weather Stripping: Manufacturer's standard replaceable components.
 - 1. Compression Type: Made of ASTM D2000 molded neoprene or ASTM D2287 molded PVC.
 - 2. Sliding Type: AAMA 701/702, made of wool, polypropylene, or nylon woven pile with nylon-fabric or aluminum-strip backing.
- K. Weather Sweeps: Manufacturer's standard exterior-door bottom sweep with concealed fasteners on mounting strip.
- L. Thresholds: BHMA A156.21 raised thresholds beveled with a slope of not more than 1:2, with maximum height of 1/2 inch.

2.5 GLAZING

- A. Glazing: Comply with Section 08 80 00 "Glazing."
- B. Glazing Gaskets: Manufacturer's standard sealed-corner pressure-glazing system of black, resilient elastomeric glazing gaskets, setting blocks, and shims or spacers.

2.6 MATERIALS

- A. Sheet and Plate: ASTM B209.
- B. Extruded Bars, Rods, Profiles, and Tubes: ASTM B221.
- C. Structural Profiles: ASTM B308/B308M.
- D. Steel Reinforcement:
 - 1. Structural Shapes, Plates, and Bars: ASTM A36/A36M.
 - 2. Cold-Rolled Sheet and Strip: ASTM A1008/A1008M.
 - 3. Hot-Rolled Sheet and Strip: ASTM A1011/A1011M.
- E. Steel Reinforcement Primer: Manufacturer's standard zinc-rich, corrosion-resistant primer complying with SSPC-PS Guide No. 12.00; applied immediately after surface preparation and pretreatment. Select surface preparation methods in accordance with recommendations in SSPC-SP COM, and prepare surfaces in accordance with applicable SSPC standard.

2.7 FABRICATION

- A. Form or extrude aluminum shapes before finishing.
- B. Weld in concealed locations to greatest extent possible to minimize distortion or discoloration of finish. Remove weld spatter and welding oxides from exposed surfaces by descaling or grinding.

- C. Fabricate components that, when assembled, have the following characteristics:
 - 1. Profiles that are sharp, straight, and free of defects or deformations.
 - 2. Accurately fitted joints with ends coped or mitered.
 - 3. Physical and thermal isolation of glazing from framing members.
 - 4. Accommodations for thermal and mechanical movements of glazing and framing to maintain required glazing edge clearances.
 - 5. Provisions for field replacement of glazing from exterior .
 - 6. Fasteners, anchors, and connection devices that are concealed from view to greatest extent possible.
- D. Mechanically Glazed Framing Members: Fabricate for flush glazing without projecting stops.
- E. Entrance Door Frames: Reinforce as required to support loads imposed by door operation and for installing entrance door hardware.
- F. Entrance Doors: Reinforce doors as required for installing entrance door hardware.
- G. Entrance Door Hardware Installation: Factory install entrance door hardware to the greatest extent possible. Cut, drill, and tap for factory-installed entrance door hardware before applying finishes.
- H. After fabrication, clearly mark components to identify their locations in Project in accordance with Shop Drawings.

2.8 ALUMINUM FINISHES

- A. Superior-Performance Organic Finish, Three-Coat PVDF: Fluoropolymer finish complying with AAMA 2605 and containing not less than 70 percent PVDF resin by weight in both color coat and clear topcoat.
 - 1. Prepare, pretreat, and apply coating to exposed metal surfaces to comply with coating and resin manufacturers' written instructions.
 - 2. Color and Gloss: As indicated by manufacturer's designations As selected by Architect from manufacturer's full range .

PART 3 - EXECUTION

3.1 INSTALLATION, GENERAL

- A. Comply with manufacturer's written instructions.
- B. Do not install damaged components.
- C. Fit joints to produce hairline joints free of burrs and distortion.
- D. Rigidly secure nonmovement joints.

- E. Install anchors with separators and isolators to prevent metal corrosion and electrolytic deterioration and to prevent impeding movement of moving joints.
- F. Seal perimeter and other joints watertight unless otherwise indicated.
- G. Metal Protection:
 - 1. Where aluminum is in contact with dissimilar metals, protect against galvanic action by painting contact surfaces with materials recommended by manufacturer for this purpose or by installing nonconductive spacers.
 - 2. Where aluminum is in contact with concrete or masonry, protect against corrosion by painting contact surfaces with bituminous paint.
- H. Set continuous sill members and flashing in full sealant bed, as specified in Section 07 92 00 "Joint Sealants," to produce weathertight installation.
- I. Install joint filler behind sealant as recommended by sealant manufacturer.
- J. Install components plumb and true in alignment with established lines and grades.

3.2 INSTALLATION OF GLAZING

- A. Install glazing as specified in Section 08 80 00 "Glazing."

3.3 INSTALLATION OF ALUMINUM-FRAMED ENTRANCE DOORS

- A. Install entrance doors to produce smooth operation and tight fit at contact points.
 - 1. Exterior Doors: Install to produce weathertight enclosure and tight fit at weather stripping.
 - 2. Field-Installed Entrance Door Hardware: Install surface-mounted entrance door hardware in accordance with entrance door hardware manufacturers' written instructions using concealed fasteners to greatest extent possible.

END OF SECTION 08 41 13