

# **BHM Construction, LLC.**

**License # 900404**

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**Project: MLK Nevada Campus Project – Increment #2 & 3  
Bid Package**

## **BID CLARIFICATION #8**

- 1. See attached Architect's updated added Increment 3 Resilient Flooring Specification 09 65 00 & Sheet A9.0.2.-3 for existing Janitor Room Building M.**
- 2. See attached Pre-bid RFI #13.1 Door Hardware Revision**
- 3. See attached Pre-bid RFI #15 Corner Guards.**
- 4. See attached Pre-bid RFI #17 & 17.1 Kitchen Appliances Inc 3**
- 5. See attached Pre-bid RFI #19 Metal Roof Coping.**

NO.	ROOM NAME	FLOOR FIN.	BASE	WALLS						CEILING		REMARKS		
				NORTH		EAST		SOUTH		WEST				
				MAT.	FIN.	MAT.	FIN.	MAT.	FIN.	MAT.	FIN.		MAT.	FIN.
M101	(E) MULTI-PURPOSE ROOM	(E) VCT & HARDWOOD FLOORING	RB-2	(E) GB	P-1, SEE INT. ELEV. FOR ACCENT PAINT	(E) GB	P-1	(E) & (N) GB.	P-1, SEE INT. ELEV. FOR ACCENT PAINT	(E) GB	P-1, SEE INT. ELEV. FOR ACCENT PAINT	(E) GB	P-1	
M102	KITCHEN	EPX	EPX	(E) & (N) GB.	FRP / P-8 ABOVE	(E) GB	FRP / P-8 ABOVE	(E) & (N) GB.	FRP / P-8 ABOVE	(E) GB	FRP / P-8 ABOVE	(E) & (N) GB.	P-8	
M103	(E) FOOD STORAGE	EPX	EPX	(E) GB	P-8	(E) GB	P-8	(E) GB	P-8	(E) GB	P-8	(E) GB	P-8	
M104	(E) STORAGE + LOCKERS	EPX	EPX	(E) GB	P-8	(E) GB	P-8	(E) GB	P-8	(E) GB	P-8	(E) GB	P-8	
M105	(E) ELECTRICAL ROOM	(E)	(E)	(E) GB	P-8	(E) GB	P-8	(E) GB	P-8	(E) GB	P-8	(E) GB	P-8	
M106	(E) JANITOR	(E)	(E)	(E) GB	P-8	(E) GB	P-8	(E) GB	P-8	(E) GB	P-8	(E) GB	P-8	
M107	(E) PLATFORM	(E) HARDWOOD FLOORING	(E) RB	(E) GB	P-1	(E) GB	P-1	(E) GB	P-1	(E) GB	P-1	(E) GB	P-1	
M108	(E) DRESSING ROOM	(E) HARDWOOD FLOORING	(E) RB	(E) GB	P-1	(E) GB	P-1	(E) GB	P-1	(E) GB	P-1	(E) GB	P-1	
M110	NUTRITION	EPX	EPX	FRP / GB	FRP / P-8 ABOVE	GB	FRP / P-8 ABOVE	GB	FRP / P-8 ABOVE	GB	FRP / P-8 ABOVE	GB	P-8	
M112	(E) GIRL'S RESTROOM	(E) EPX	(E) EPX	(E) CT / GB	P-8 ABOVE (E) TILE	(E) CT / GB	P-8 ABOVE (E) TILE	(E) CT / GB	P-8 ABOVE (E) TILE	(E) CT / GB	P-8 ABOVE (E) TILE	(E) GB	P-8	PAINT LIGHT WELL SOFFIT
M113	(E) BOY'S RESTROOM	(E) EPX	(E) EPX	(E) CT / GB	P-8 ABOVE (E) TILE	(E) CT / GB	P-8 ABOVE (E) TILE	(E) CT / GB	P-8 ABOVE (E) TILE	(E) CT / GB	P-8 ABOVE (E) TILE	(E) GB	P-8	PAINT LIGHT WELL SOFFIT
M200	FLEX CLASSROOM	LVT-1, LVT-7	RB-2	(E) GB	P-1, SEE FIN. PLAN FOR ACCENT PAINT	(E) GB	P-1	(E) GB	P-1	(E) GB	P-1	(E) GB & ACT	P-1 AT GB	
M202	MUSIC CLASSROOM	C-5, LVT-7	RB-2	(E) GB	P-1, SEE INT. ELEV. FOR ACCENT PAINT	(E) GB	P-1	(E) GB	P-1, SEE FIN. PLAN FOR ACCENT PAINT	(E) GB	P-1	(E) GB & ACT	P-1 AT GB	
M205	FLEX CLASSROOM	LVT-1, LVT-7	RB-2	(E) GB	P-1, SEE FIN. PLAN FOR ACCENT PAINT	(E) GB	P-1	(E) GB	P-1	(E) GB	P-1	(E) GB & ACT	P-1 AT GB	
M207	FLEX CLASSROOM	LVT-1, LVT-7	RB-2	(E) GB	P-1, SEE FIN. PLAN FOR ACCENT PAINT	(E) GB	P-1	(E) GB	P-1, SEE FIN. PLAN FOR ACCENT PAINT	(E) GB	P-1	(E) GB & ACT	P-1 AT GB	
M208	RESTROOM	EPX	EPX	GB	CT-1	GB	CT-1	GB	CT-1	GB	CT-1, CT-3, CT-4, CT-5, CT-6, CT-7, P-8	GB	P8	
M209	RESTROOM	EPX	EPX	GB	CT-1	GB	CT-1	GB	CT-1	GB	CT-1	GB	P8	
M210	(E) JANITOR	RSV-1	RSV-1 (6")	(E) GB	P-1 / FRP-1 (4'-0" A.F.F.)	(E) GB	P-1	(E) GB	P-1	(E) GB	P-1 / FRP-1 (4'-0" A.F.F.)	(E) GB	P-1	CLEAN AND REPAIR FLOORING AS REQUIRED, COORDINATE W/ NEW ADJACENT FLOORING IN CLASSROOMS
M211	EXT. ENTRY VESTIBULE	--	--	--	--	--	--	--	--	--	--	--	--	SEE EXTERIOR FLOOR PLAN

**FINISH ABBREVIATIONS**

- CBU CEMENTITIOUS BACKER UNIT
- EXP EXPOSED STRUCTURE
- FCP FIBER CEMENT PANEL
- FF FACTORY FINISH
- GB GYPSUM BOARD - 09 21 16
- GBX GYPSUM BOARD, FIRE RATED - 09 21 16
- GBMR GYPSUM BOARD, MOISTURE RESISTANT - 09 21 16
- MS MASONRY SEALER
- PLYWPLYWOOD, RATED - 06 20 23
- RF DK ROOF DECK
- UNF UNFINISHED
- EPX EPOXY FLOORING, 6" COVERED WALL BASE
- SC SEALED CONCRETE- 03 35 00
- INT CONCREGAL EPOXY COVE
- RES CONCREGAL RUBBER COVE BASE
- CBM CEMENTIOUS BACKER BOARD
- FRL FIBER REINFORCED LAMINATE
- FRP FIBREGLOSS REINFORCED PLASTIC
- CT CERAMIC TILE UP TO 6"
- SAC SUSPENDED ACOUSTICAL CEILING
- OTS OPEN TO STRUCTURE
- OTS-1 OPEN TO STRUCTURE WITH SUSPENDED ACOUSTICAL CLOUD PANELS
- LVT LUXURY VINYL TILE
- TB FABRIC WRAPPED TACKBOARD
- CP CARPET
- VCT VINYL COMPOSITION TILE
- P PAINT
- PL PLASTIC LAMINATE
- RB 4" RUBBER BASE

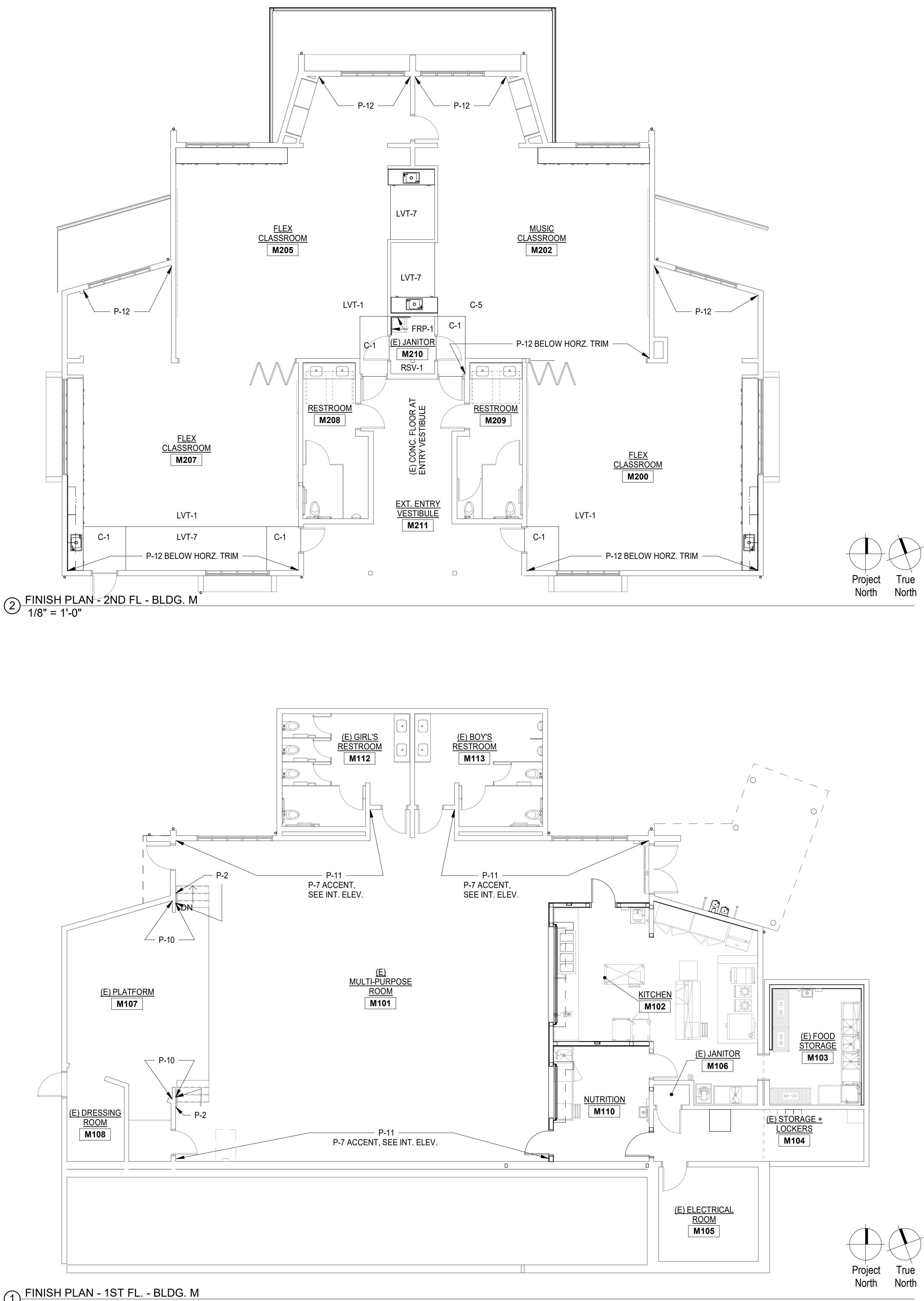
**FINISH REMARKS**

1. ALL WALLS TO BE PAINTED P-1 UNLESS NOTED OTHERWISE
2. ALL FLOORS TO BE SC-1 UNLESS NOTED OTHERWISE
3. ALL RESILIENT BASE TO BE PAINTED RB-1 UNLESS NOTED OTHERWISE
4. FOR TILE PATTERNS, SEE ENLARGED RESTROOM PLANS AND ELEVATIONS
5. PRIME ALL EXPOSED STRUCTURAL STEEL - 09 91 00
6. EXPOSED METAL DECK TO HAVE SITE PAINTED FINISH
7. EXPOSED ELECTRICAL CONDUIT, DUCTWORK AND MECHANICAL COMPONENTS TO HAVE SITE PAINTED FINISH
8. PROVIDE FRP AT WALLS WITH JANITOR SINK PER INTERIOR ELEVATIONS

**GENERAL NOTES**

1. ALL FINISHES, FURNISHINGS AND MATERIALS SHALL MEET THE MINIMUM REQUIREMENTS OF 2019 IBC/IFC CHAPTER 8 AND IBC CHAPTER 19 FLAME SPREAD AND SMOKE DEVELOPMENT
2. PRIME A PAINT ALL EXPOSED EXTERIOR SURFACES AND ITEMS WHICH ARE NOT FACTORY FINISHED, INCLUDING BUT NOT LIMITED TO, SOFFITS, REVEALS, METAL FLASHING AND TRIM, ROOF PENETRATIONS, EXPOSED STEEL STRUCTURE, EXPOSED PLUMBING, DUCTWORK AND OTHER MECHANICAL ITEMS, EXPOSED ELECTRICAL CONDUIT AND OTHER ELECTRICAL ITEMS, UNO.
3. PREPARE ALL SURFACES TO BE FINISHED PRIOR TO PAINTING, INCLUDING GALVANIZED STEEL AND ALL SURFACES ON WHICH DEBRIS OR OTHER RESIDUES EXIST WHICH MAY INTERFERE WITH FINISHING.

- CONCRETE FLOOR FINISH - 03 35 00**
- S. CONC. SEALED CONCRETE MFG.: ASHFORD FORMULA
- PLASTIC LAMINATES - 06 41 00**
- PL-1 TYPICAL CASEWORK, UPPERS, BASE & TALL MFG.: FORMICA COLOR: BLOND CEDAR - 8576-PG FINISH: PURE GRAIN
  - PL-2 RECEPTION & LIBRARY DESKS MFG.: FORMICA COLOR: ALUMINUM - 9318-BH FINISH: BRUSHED TEXTURE
  - PL-3 TYPICAL COUNTER TOPS MFG.: FORMICA COLOR: PALOMA POLAR - 6698A-58 FINISH: ANTIMICROBIAL MATTE FINISH
- SOLID SURFACE - 06 61 16**
- SS-1 RECEPTION & LIBRARY COUNTER TOPS CLASSROOM AND LIBRARY BENCH TOPS MFG.: DUPONT CORIAN COLOR: ARROWROOT
- CERAMIC TILE 09 30 13**
- CT-1 WALL FIELD WALL TILE MFG.: DALTILE PROD.: COLOR WHEEL COLOR: ARTIC WHITE 0190 SEMI GLOSS SIZE: 6 x 6 INSTALL: STACKED GROUT: WHITE
  - CT-2 WALL ACCENT WALL TILE MFG.: DALTILE PROD.: COLOR WHEEL COLOR: DESERT GRAY X114 SEMI GLOSS SIZE: 6 x 6 INSTALL: STACKED GROUT: WHITE
  - CT-3 WALL ACCENT WALL TILE MFG.: DALTILE PROD.: COLOR WHEEL COLOR: ELECTRIC BLUE 1194 SEMI GLOSS SIZE: 6 x 6 INSTALL: STACKED GROUT: WHITE
  - CT-4 WALL ACCENT WALL TILE MFG.: DALTILE PROD.: COLOR WHEEL COLOR: KEY LIME 1098 SEMI GLOSS SIZE: 6 x 6 INSTALL: STACKED GROUT: WHITE
  - CT-5 WALL ACCENT WALL TILE MFG.: DALTILE PROD.: COLOR WHEEL COLOR: SUNFLOWER DH50 SEMI GLOSS SIZE: 6 x 6 INSTALL: STACKED GROUT: WHITE
  - CT-6 WALL ACCENT WALL TILE MFG.: DALTILE PROD.: COLOR WHEEL COLOR: ORANGE BURST 1097 SEMI GLOSS SIZE: 6 x 6 INSTALL: STACKED GROUT: WHITE
  - CT-7 WALL ACCENT WALL TILE MFG.: DALTILE PROD.: COLOR WHEEL COLOR: WOOD VIOLET 1467 SEMI GLOSS SIZE: 6 x 6 INSTALL: STACKED GROUT: WHITE
- CARPET - 09 08 00**
- C-1 WALK-OFF MFG.: INTERFAC PROD.: STEP REPEAT SR999 STYLE: MODULAR SIZE: 50 CM x 50 CM (19.69" x 19.69") COLOR: 10492 SMOKE INSTALL: QUARTER TURN
  - C-2 ADMINISTRATION MFG.: INTERFAC PROD.: NIGHT LIGHTS COLLECTION STYLE: AGLCOW SIZE: 25 CM x 1M (9.845" x 39.38") COLOR: 10727 IRON AZURE INSTALL: ASHLAR
  - C-3 CLASSROOMS MFG.: INTERFAC PROD.: NIGHT LIGHTS COLLECTION STYLE: AGLCOW SIZE: 25 CM x 1M (9.845" x 39.38") COLOR: 10727 IRON AZURE INSTALL: ASHLAR
  - C-4 CLASSROOMS MFG.: INTERFAC PROD.: NIGHT LIGHTS COLLECTION STYLE: AGLCOW SIZE: 25 CM x 1M (9.845" x 39.38") COLOR: 10727 IRON AZURE INSTALL: ASHLAR
  - C-5 CLASSROOMS MFG.: INTERFAC PROD.: NIGHT LIGHTS COLLECTION STYLE: AGLCOW SIZE: 25 CM x 1M (9.845" x 39.38") COLOR: 10727 TITANIUM IRIS INSTALL: ASHLAR
  - C-6 NOT USED
  - C-7 NOT USED
  - C-8 LIBRARY MFG.: INTERFAC PROD.: HUMAN CONNECTION COLLECTION STYLE: MOSS IN STONE SIZE: 50 CM x 50 CM (19.69" x 19.69") COLOR: 10565 SLATE EDGE INSTALL: NON-DIRECTIONAL
- RESILIENT FLOORING - 09 65 00**
- LVT-1 LUXURY VINYL TILE MFG.: INTERFAC PROD.: STARGAZING STYLE: SCORPIO SIZE: 50 CM x 50 CM (19.69" x 19.69") COLOR: A01716 - SILVERLIGHT INSTALL: NON-DIRECTIONAL
  - LVT-2 LUXURY VINYL TILE MFG.: INTERFAC PROD.: STARGAZING STYLE: SCORPIO SIZE: 50 CM x 50 CM (19.69" x 19.69") COLOR: A01717 - PEWTER INSTALL: NON-DIRECTIONAL
  - LVT-3 LUXURY VINYL TILE MFG.: INTERFAC PROD.: STARGAZING STYLE: SCORPIO SIZE: 50 CM x 50 CM (19.69" x 19.69") COLOR: A01709 AQUA (TURQUOISE) INSTALL: NON-DIRECTIONAL
  - LVT-4 LUXURY VINYL TILE MFG.: INTERFAC PROD.: STARGAZING STYLE: SCORPIO SIZE: 50 CM x 50 CM (19.69" x 19.69") COLOR: A01708 - ELECTRIC BLUE INSTALL: NON-DIRECTIONAL
  - LVT-5 LUXURY VINYL TILE MFG.: INTERFAC PROD.: STARGAZING STYLE: SCORPIO SIZE: 50 CM x 50 CM (19.69" x 19.69") COLOR: A01706 - VIOLET INSTALL: NON-DIRECTIONAL
  - LVT-6 LUXURY VINYL TILE MFG.: INTERFAC PROD.: STARGAZING STYLE: SCORPIO SIZE: 50 CM x 50 CM (19.69" x 19.69") COLOR: A01705 - VIOLET INSTALL: NON-DIRECTIONAL
  - LVT-7 LUXURY VINYL TILE MFG.: INTERFAC PROD.: STARGAZING STYLE: SCORPIO SIZE: 50 CM x 50 CM (19.69" x 19.69") COLOR: A01706 - VIOLET INSTALL: NON-DIRECTIONAL
  - LVT-8 LUXURY VINYL TILE MFG.: INTERFAC PROD.: LEVEL SET PROD.: NATURAL WOODGRAINS SIZE: 25 CM x 1M (9.845" x 39.38") COLOR: A0X212 - CEDAR INSTALL: ASHLAR
  - SV-1 SHEET VINYL W/ INTEGRAL COVE BASE MFG.: TARKETT PROD.: IQ GRANIT COLOR: 234 WARM LIGHT GREY WG
- PAINT - 09 91 00**
- P-1 PRIMARY INTERIOR WALLS MFG.: SHERWIN WILLIAMS COLOR: SW 7056 - RESERVED WHITE FINISH: EGG SHELL
  - P-2 ACCENT INTERIOR WALLS MFG.: SHERWIN WILLIAMS COLOR: SW 7072 - ONLINE (GRAY) FINISH: EGG SHELL
  - P-3 ACCENT INTERIOR WALLS MFG.: SHERWIN WILLIAMS COLOR: SW 6773 - RAFTURE BLUE FINISH: EGG SHELL
  - P-4 ACCENT INTERIOR WALLS MFG.: SHERWIN WILLIAMS COLOR: SW 6717 - LIME RICKEY FINISH: EGG SHELL
  - P-5 ACCENT INTERIOR WALLS MFG.: SHERWIN WILLIAMS COLOR: SW 9021 - NAPLES YELLOW FINISH: EGG SHELL
  - P-6 ACCENT INTERIOR WALLS MFG.: SHERWIN WILLIAMS COLOR: SW 6508 - SECURE BLUE FINISH: EGG SHELL
  - P-7 ACCENT INTERIOR WALLS MFG.: SHERWIN WILLIAMS COLOR: SW 6438 - DILL (GREEN) FINISH: EGG SHELL
  - P-8 RESTROOMS, FOOD SERVICE AREAS, CUSTODIAL & UTILITIES WALLS & CEILING MFG.: SHERWIN WILLIAMS COLOR: SW 7056 - RESERVED WHITE FINISH: SEMI-GLOSS
  - P-9 DOOR & FRAMES MFG.: DUNN EDWARDS COLOR: FADE TO BLACK DET629, JET DE6378 FINISH: SEMI-GLOSS
  - P-10 ACCENT INTERIOR WALLS MFG.: SHERWIN WILLIAMS COLOR: SW 7074 - SOFTWARE (GRAY) FINISH: EGG SHELL
  - P-11 ACCENT INTERIOR WALLS MFG.: SHERWIN WILLIAMS COLOR: SW 6437 - HAVEN (GREEN) FINISH: EGG SHELL
  - P-12 ACCENT INTERIOR WALLS MFG.: SHERWIN WILLIAMS COLOR: SW 8823 - BRAVE PURPLE FINISH: EGG SHELL
- TOILET AND URINAL PARTITIONS - 10 21 16**
- MFG.: BOBRICK PROD.: 1090 - SIERRA SERIES COLOR: SC04 - FOREST GREEN
- FRP WALL PANEL - 09 77 20**
- FRP-1 MFG.: MARLITE COLOR: WHITE SIZE: 4 x 8 PANELS FINISH: SMOOTH
- ACOUSTICAL WALL PANEL - 09 84 33**
- AWP-1 ACOUSTICAL WALL PANEL MFG.: KIREI PROD.: ECHOPANEL STYLE: COLOR COLOR: 551 DUCK EGG
  - AWP-1 ACOUSTICAL WALL PANEL MFG.: KIREI PROD.: ECHOPANEL STYLE: PRINT PATTERN: BIOPHILIA
- ACOUSTICAL CEILINGS - 09 51 00**
- SAC-1 SUSPENDED ACOUSTICAL CEILING MFG.: ARMSTRONG STYLE: T80 COLOR: WHITE SIZE: 24"x24"
- VCT/WP-1 PANEL MFG.: CHATFIELD CLARK VINYL MFG.: KOROSEAL VINYL MFG.: HARBORWEAVE COLOR: ATRILUM - 2191-00**
- VINYL COVERED TACKABLE WALL PANELS - 09 72 16**



2 FINISH PLAN - 2ND FL. - BLDG. M  
1/8" = 1'-0"

1 FINISH PLAN - 1ST FL. - BLDG. M  
1/8" = 1'-0"

DSA APP. NO. 01-121006

SEAL

100% CONSTRUCTION DOCUMENTS

Project Title: **FINISH PLAN & SCHEDULE - BLDG M**

Project No.: 22-180  
 Date: 03/28/2024  
 DRAWING NO.: **A9.0.2-3**

NO. DATE ISSUE

Project: SAUSALITO MARIN CITY SCHOOL DISTRICT  
 DR. MARTIN LUTHER KING JR. ACADEMY  
 636 NEVADA STREET, SAUSALITO, CA 94965

**SECTION 09 65 00**  
**RESILIENT FLOORING**

**PART 1 - GENERAL**

1.1 SECTION INCLUDES

- A. Luxury Vinyl Tile
- B. Resilient flooring shall be stable, firm and slip resistant. CBC Section 11B-302.1

1.2 RELATED SECTIONS

- A. Section 03 30 00 - Cast-In-Place Concrete.
- B. Section 09 65 13 – Tile Carpeting and Resilient Base and Transition Strips

1.3 REFERENCES (Current Edition for All Standards Listed)

- A. American Association of Textile Chemists and Colorists (AATCC):
  - 1. AATCC-134 - Static Generation Propensity (Conductive)
  - 2. AATCC-134 - Static Generation Propensity (Dissipative)
- B. American National Standards Institute (ANSI):
  - 1. ANSI/ESD S7.1 - Standard Test Method for Static Protective Flooring Materials
  - 2. ANSI/ESD S20.20 - Electrostatic Discharge Control Program Standard
- C. American Society for Testing and Materials (ASTM):
  - 1. ASTM D2047 – Standard Test Method for Static Coefficient of Friction of Polish-Coated Flooring Surfaces as Measured by the James Machine
  - 2. ASTM D4541– Standard Test Method for Pull-Off Strength of Coatings Using Portable Adhesion Testers
  - 3. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials
  - 4. ASTM E96 – Standard Test Methods for Water Vapor Transmission of Materials
  - 5. ASTM E648 – Standard Test Method for Critical Radiant Flux of Floor-Covering Systems Using a Radiant Heat Energy Source
  - 6. ASTM E662 (NFPA 258) – Standard Test Method for Specific Optical Density of Smoke Generated by Solid Materials
  - 7. ASTM F137 - Standard Test Method for Flexibility of Resilient Floor Covering with Cylinder Mandrel Apparatus
  - 8. ASTM F141 – Standard Terminology Relating to Resilient Floor Coverings
  - 9. ASTM F150 – Standard Test Method for Electrical Resistance of Conductive and Static Dissipative Resilient Flooring

10. ASTM F386 - Standard Test Method for Thickness of Resilient Flooring Materials Having Flat Surfaces
11. ASTM F710 – Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring
12. ASTM F925 - Standard Test Method for Resistance to Chemicals of Resilient Flooring
13. ASTM F970/F970M - Standard Test Method for Measuring Recovery Properties of Floor Coverings after Static Loading
14. ASTM F 1303 - Standard Specification for Sheet Vinyl Floor Covering with Backing
15. ASTM F1482 - Standard Practice for Installation and Preparation of Panel Type Underlayments to Receive Resilient Flooring
16. ASTM F1514 - Standard Test Method for Measuring Heat Stability of Resilient Flooring by Color Change
17. ASTM F1515 - Standard Test Method for Measuring Light Stability of Resilient Flooring by Color Change
18. ASTM F1700 - Standard Specification for Solid Vinyl Floor Tile
19. ASTM F1869 – Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride
20. ASTM F1913 - Standard Specification for Vinyl Sheet Floor Covering Without Backing
21. ASTM F1914 - Standard Test Method for Short-Term Indentation and Residual Indentation or Resilient Floor Covering
22. ASTM F2055 - Standard Test Method for Size and Squareness of Resilient Floor Tile by Dial Gauge Method
23. ASTM F2170 -Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs using in situ Probes
24. ASTM F2199 - Standard Test Method for Determining Dimensional Stability of Resilient Floor Tile After Exposure to Heat

D. National Fire Protection Association (NFPA)

1. NFPA 253- Standard Method of Test for Critical Radiant Flux of Flooring Covering Systems Using a Radiant Heat Energy Source
2. NFPA 258 - Recommended Practice for Determining Smoke Generation of Solid Materials

#### 1.4 SUBMITTALS

A. General – All Products:

1. Provide submittals under provisions of Section 01 33 00, “Submittal Procedures”.
2. Product Data
  - a. Submit manufacturer's technical data sheet, care & maintenance document, submittal and/or warranty for each material and accessory proposed for use.
  - b. Submit manufacturer's installation instructions.
3. Samples:

- a. Submit two samples, illustrating color and pattern for each material specified.
4. Installation:
  - a. See Section 3.3, “Substrate Preparation” - Submit testing data, including test location mapping, to Architect prior to beginning flooring installation.
- B. Closeout Submittals:
  1. Operation and Maintenance Data: Operation and maintenance data for installed products in accordance with Section 01 77 19 – “Closeout Requirements (Maintenance Data and Operation Data). Include methods for maintaining installed products, and precautions against cleaning materials and methods detrimental to finishes and performance
- C. Special Additional Submittal Requirements for Luxury Vinyl Tile Product:
  1. Prior to Installation:
    - a. Supply a set of samples measuring at least 7.5 cm (3 in.) by 15 cm (6 in.) of the complete range of colors and finishes chosen for the project.
    - b. When required, provide manufacturer’s attestation, certified by an independent laboratory, confirming that the flooring complies with the fire standards of the following tests:
      - 1) ASTM E 648; Critical Radiant Flux: 0.45 watts/cm<sup>2</sup> or more;
      - 2) ASTM E 662; Smoke Density: 450 or less.
    - c. Provide manufacturer’s Warranty Certificate.
- D. Special Additional Submittal Requirements for Sheet Vinyl Product:
  1. Prior to Installation:
    - a. Submit shop drawings, seaming plan, coving details, and manufacturer's technical data, installation and maintenance instructions (latest edition of Armstrong Flooring Guaranteed Installation Systems manual, F-5061) for flooring and accessories.
    - b. Submit the manufacturer's standard samples showing the required colors for flooring, welding rods, and applicable accessories.
    - c. Submit Safety Data Sheets (SDS) available for adhesives, weld rod, moisture mitigation systems, primers, patching/leveling compounds, floor finishes (polishes) and cleaning agents and Material Information Sheets for flooring products.
- F. Single-Source Responsibility: provide types of flooring and accessories supplied by one manufacturer, , primers, leveling and patching compounds, and adhesives. Verify moisture mitigations systems are compatible with product per manuf. Requirements.
- G. Manufacturer Qualifications: Provide resilient flooring materials manufactured in the United States of America by a firm with a minimum of 5 years’ experience with resilient flooring materials of type equivalent to those specified.
  1. Provide resilient flooring products, including wall base, accessories and subfloor preparation products from one manufacturer to ensure color matching and compatibility.
  2. Manufacturer shall be capable of providing technical training and technical field service representation.

- H. Installer Qualifications: Installer must be professional, licensed, insured and acceptable to manufacturer of resilient flooring materials. Project Managers or Field Supervisors must be INSTALL (International Standards & Training Alliance) certified, CFI (Certified Floorcovering Installers) Certified and/or an FCICA (The Flooring Contractors Association) CIM (Certified Installation Manager) for the requirements of the project.
- I. Sustainable Design Requirements:
  - 1. Vinyl flooring and accessories that are easily cleaned and do not require coatings and stripping or use chemicals that may be hazardous to human health.
  - 2. Vinyl flooring that is free of materials known to be teratogenic, mutagenic or carcinogenic.
  - 3. Vinyl flooring that does not contain any halogens.
  - 4. Vinyl flooring that contains no asbestos.
- J. Applicator: Company specializing in flooring systems with 5 years documented experience, trained and approved by the flooring system manufacturer.
- K. Special Requirements for LVT product:
  - 1. Have flooring installed by a qualified installer of this type of flooring.
  - 2. In accordance with the technical instructions in the Installation Instructions, use all the accessories recommended by manufacturer when installing its flooring.
  - 3. Follow the instructions specified in the most recent version of manufacturer's Installation Instructions.

#### 1.5 PRE-INSTALLATION CONFERENCES

- A. Pre-Installation Meetings: Conduct an on-site pre-installation meeting to verify project requirements, substrate conditions, manufacturer's installation instructions and manufacturer's warranty requirements. Comply with Section 01 31 00 - Project Management Coordination (Project Meetings)
- B. Pre-installation Testing: Conduct pre-installation testing as follows: [Specify testing (i.e. moisture tests, bond test, pH test, etc.).

#### 1.6 DELIVERY, STORAGE, AND HANDLING

- A. Deliver materials in labeled packages. Store and handle in strict compliance with manufacturer's recommendations. Protect from damage due to weather, excessive temperatures, and construction operations.
- B. Deliver materials sufficiently in advance of installation to condition materials to the required temperature for 48-hours prior to installation.
- C. Special Requirements for LVT product:
  - 1. Deliver the flooring to the installation site in manufacturer's original packaging. Indicate the project name and handling instructions on the outside of the boxes.
  - 2. Advise the carrier of any damaged material and indicate it on the packing slip.
  - 3. Store the flooring inside, sheltered from extreme hot or cold temperatures. Place the material on a smooth level floor or where there is uniform solid support in a clean, dry well-ventilated area. Unstack the palettes. The long-term storage temperature must be

maintained between 18°C (65°F) and 24°C (75°F). Protect adhesive and flooring material from freezing, extreme heat and direct sun exposure.

4. Acclimatize the subfloor, all flooring material and adhesive for 48 hours before, during and after the installation by maintaining the room temperature between 18°C (65°F) and 24°C (75°F). The palletes should be unstacked 24 hours prior to use.
5. Afterwards, maintain the room temperature between 18°C (65°F) and 29°C (85°F). Protect the material from direct sources of heat such as air vents and other types of heaters.
6. Install the flooring after all other finishing work, including painting, have been completed.

## 1.7 PROJECT CONDITIONS

### A. All Materials

1. Store materials for three days prior to installation in area of installation to achieve temperature stability.
2. Maintain temperature and humidity at service levels or the ambient temperature must remain steady ( $\pm 10^\circ$  F) and be between 65° F and 85° F for at least 48-hours prior to, during and after installation.
3. Maintain ambient temperature required by adhesive manufacturer three days prior to, during, and after installation.

### B. Sheet Vinyl Special Requirements:

1. Maintain a minimum temperature in the spaces to receive the flooring and accessories of 65°F (18°C) and a maximum temperature of [100°F (38°C)][85°F (29°C)] for at least 48 hours before, during, and for not less than 48 hours after installation. Thereafter, maintain a minimum temperature of 55°F (13°C) in areas where work is completed. Protect all materials from the direct flow of heat from hot-air registers, radiators, or other heating fixtures and appliances. Refer to manufacturer provided manual for requirements.

### C. ESD Vinyl Tile Special Requirements:

1. Install ESD Vinyl Tile after other finishing operations, including painting, have been completed.
2. Maintain temperature at service levels and/or the ambient temperature must remain steady ( $\pm 10^\circ$  F) between 65° F and 85° F for at least 48-hours prior to, during and until substantial completion.
3. Maintain relative humidity at service levels, or between 40% and 65% RH.
4. Avoid conditions in which dew point causes condensation on the installation surface.

## 1.8 MOCKUPS/TEST INSTALLATIONS

- A. Test Installations/ Mock-ups: Install at the project site a job mock-up using acceptable products and manufacturer approved installation methods, including concrete substrate testing. Obtain Owner's and Consultant's acceptance of finish color, texture and pattern, and workmanship standards.
- B. Mock-Up Size: 10 ft. x 10 ft. area, minimum. Mock up can be included in the final installation.

- C. Maintenance: Maintain mock-up during construction for workmanship comparison; remove and legally dispose of mock-up when no longer required.
- D. Incorporation: Mock-up may be incorporated into the final construction with Owner's approval.

#### 1.9 SEQUENCING AND SCHEDULING

- A. Install flooring and accessories after the other finishing operations, including painting, have been completed. Close spaces to traffic during the installation of the flooring.
- B. Do not install flooring over concrete slabs until they are sufficiently dry to achieve a bond with the adhesive, in accordance with the manufacturer's recommended bond, moisture tests and pH test.

#### 1.10 WARRANTY

- A. Provide manufacturer's standard limited commercial warranty to cover manufacturing defects.

#### 1.11 EXTRA STOCK

- A. Extra Materials: Deliver extra materials to Owner. Furnish extra materials from same production run as products installed. Packaged with protective covering for storage and identified with appropriate labels.
  - 1. Quantity: Furnish quantity of flooring units equal to 5 % of amount installed.
  - 2. Delivery, Storage and Protection: Comply with Owner's requirements for delivery, storage and protection of extra material.

### **PART 2 - PRODUCTS**

#### 2.1 MANUFACTURERS

- A. Basis of Design: Characteristics of specific products, where named in this Section, are indicated to establish required level of quality, appearance, and performance.

#### 2.2 LUXURY VINYL TILE FLOORING

- A. Manufacturer:
  - 1. Basis of Design: Interface, 1280 West Peachtree St NW, Atlanta, GA 30309, 800-336-0225, or approved equal.
    - a. See finish schedule drawing for product information.
    - b. Refer to the product's Technical Specifications data sheet for detailed specifications.
- B. Adhesive
  - 1. Use adhesive as recommended by manufacturer specific to location in building.
    - a. Dry locations
    - b. Restroom environment (not standing water) as required by manufacturer.
- C. Other Materials:



1. Subfloor repairs: use a good-quality Portland cement-based compound modified with latex that has a minimal resistance to compression of 246 kg/cm<sup>2</sup> (3 500 lbs/sq. in.) to fill, smooth or level subfloor imperfections.
2. Self-levelling underlayment: use a Portland cement-based self-levelling underlayment modified with a polymer that has a minimal resistance to compression of 246 kg/cm<sup>2</sup> (3,500 lbs/sq. in.).

## 2.3 RESILIENT SHEET VINYL FLOORING

### A. Manufacturer:

1. Basis of Design: Tarkett North America, 30000 Aurora Rd., Solon, Ohio 44139
  - a. Substitutions per Section 01 25 00, "Substitution Procedures"
2. See finish schedule drawing for product information.
3. Refer to the product's Technical Specifications data sheet for detailed specifications.

### B. Product: iQ Granit

1. Materials Characteristics: Homogeneous flooring composed of a 0.080" (2 mm) thick construction that is abrasion resistant and requires no wax.
  - a. Size: 6'-6" wide roll
  - b. Color: Refer to Interiors Finishes Legend
  - c. Finish: Techtonic
  - d. Edge treatment: Square Edge
  - e. Wearlayer Thickness: .020" (0.5 mm)
  - f. Overall thickness: 0.120" (3.0 mm)
  - g. Flammability: ASTM E648 Flooring Radiant Panel): Class 1
  - h. Performance standards: ASTM F1913, Standard Specification for Vinyl Sheet Floor Covering without Backing and ASTM F1700 Standard Specification for Solid Vinyl Tile.
2. Adhesive:
  - a. Tarkett 925 Adhesive Coverage: Porous Substrate: 250-300 sq. ft./gal. Non-porous Substrate: 250-300 sq. ft. per gallon
  - b. Tarkett 975 Two-Part Urethane Adhesive Coverage: Porous & Non-porous Substrate: 225-250 sq. ft. per gallon
  - c. Tarkett 996 Two-Part Epoxy Adhesive Coverage: Porous & Non-porous Substrate: 225-250 sq. ft. per gallon
  - d. Tarkett RollSmart Adhesive Coverage: Porous & Non-porous Substrate: 350 - 400 sq. ft. per gallon (3/8" Nap Paint Roller used with a paint tray)
  - e. Tarkett Cold Weld Liquid Coverage: 175 – 200 lin. ft. per. 4.5 oz.
3. Other Materials:

- a. Subfloor repairs: use a good-quality Portland cement-based compound modified with latex that has a minimal resistance to compression of 246 kg/cm<sup>2</sup> (3 50 lbs/sq. in.) to fill, smooth or level subfloor imperfections.
  - b. Self-levelling underlayment: use a Portland cement-based self-levelling underlayment modified with a polymer that has a minimal resistance to compression of 246 kg/cm<sup>2</sup> (3,500 lbs/sq. in.).
4. Maintenance:
- a. 72 hours after installation is completed, initial maintenance procedures must be implemented in accordance with manufacturer's requirements. Refer to iQ Flooring Maintenance Instructions for complete maintenance details.

## 2.4 ACCESSORY MATERIALS

- A. Subfloor Filler, if not otherwise specified:
1. Portland cement based, Ardex, or approved equal
    - a. Website: <http://www.ardex.com/>
  2. Verify with flooring material manufacturer recommendations for use of all products listed. Use of gypsum-based filler is prohibited.
- B. Substitutions per Section 01 25 00, "Substitution Procedures".

## 2.5 RESILIENT BASE FOR LVT

- A. Provide style to fit job conditions and as approved by the Architect.
1. See Section 09 65 13 - Resilient Base and Transition Strips.

## 2.6 TRANSITION/REDUCERS/EDGE STRIPS, If Applicable.

- A. Provide style to fit job conditions and as approved by the Architect.
1. See Section 09 65 13, "Resilient Base and Transition Strips".

## 2.7 OTHER MATERIALS

- A. Provide all other materials, not specifically described but required for complete and proper installation of this work, as selected by the Contractor and subject to the approval of the Architect.

# PART 3 - EXECUTION

## 3.1 INSPECTION

- A. Site Verification of Conditions: Verify substrate conditions (which have been previously installed under other sections) are acceptable for product installation in accordance with manufacturer's instructions (i.e. moisture tests, bond test, pH test, etc.).
- B. Visually inspect flooring materials, adhesives and accessories prior to installation. Flooring material with visual defects shall not be installed and shall not be considered as a legitimate claim.

- C. Examine subfloors prior to installation to determine that surfaces are smooth and free from cracks, holes, ridges, and other defects that might prevent adhesive bond or impair durability or appearance of the flooring material.
- D. Inspect subfloors prior to installation to determine that surfaces are free from curing, sealing, parting and hardening compounds; residual adhesives; adhesive removers; and other foreign materials that might prevent adhesive bond. Visually inspect for evidence of moisture, alkaline salts, carbonation, dusting, mold, or mildew.
- E. Report conditions contrary to contract requirements that would prevent a proper installation to Contractor, Architect and Owner. Do not proceed with the installation until unsatisfactory conditions have been corrected.
- F. Failure to call attention to defects or imperfections will be construed as acceptance and approval of the subfloor. Installation indicates acceptance of substrates with regard to conditions existing at the time of installation.
- G. Ensure installers or installation teams are properly trained per the requirements of all manufacturers listed.
- H. Verify that work of this Section may be installed in strict accordance with the original design, all pertinent codes and regulations, and all pertinent portions of the referenced standards.
  - 1. Verify that surfaces comply with specified tolerances.
  - 2. Verify concrete floors comply with specified moisture content criteria acceptable to the flooring manufacturer, and do not exhibit negative alkalinity, carbonization, or dusting.
- I. Ensure substrate meets the requirements of ASTM F710 and ASTM F710, where applicable.
- J. Provide a secure storage area that is maintained permanently or temporarily at normal operating temperature and humidity conditions between 65° F and 85° F and between 40% and 65% relative humidity, for at least 48-hours prior to and during the application of the flooring, so the flooring contractor can acclimate the flooring materials per manufacturer's instructions.
  - 1. Provide an installation area that is weather tight and maintained either permanently or temporarily at ambient service temperature and humidity.
  - 2. Ensure areas with direct prolonged exposure to sunlight are protected with protective UVA/UVB restrictive coatings or films.
  - 3. Areas of the flooring that are subject to direct sunlight through doors or windows should have them covered using blinds, curtains, cardboard or similar for the time of the installation and 72-hours after the installation to allow the adhesive to cure. Note: These areas should be installed using wet adhesives only.
  - 4. Do not conduct initial maintenance until adhesive has cured per the adhesive technical data.

### 3.2 EXAMINATION

- A. General: Follow guidelines laid out manufacturer installation guidelines for substrate preparation.
- B. Inspect all substrates to ensure they are clean, smooth, permanently dry, flat, and structurally sound. Confirm all areas are properly sealed and acclimated per manufacturer's requirements.

- C. In accordance with manufacturer's installation requirements, visually inspect material for size, color or visual defects prior to installing. Any material that is incorrect or visually defective shall not be installed.
- D. Special Requirements for LVT product:
  - 1. Examine the subfloor before installation to ensure that the surface is clean, dry, smooth, structurally sound and free from foreign substances that may adversely affect adhesion or cause discoloration. Furthermore, ensure that the subfloor is free of paint, varnish, adhesive, oil, grease, solvent and other foreign substances, including treatment compounds, sealers and curing compounds that may adversely affect adhesion or alter the appearance or durability of the rubber flooring.
  - 2. Verify the surface to ensure there is no powder, scaling or mold. If there is, remove it with a mechanical sander and level with a good-quality cement-based Portland primer.
  - 3. Slabs that have been either using a curing agent or a sealer will have to be treated to ensure that the adhesion has not been impaired.
  - 4. Do not install on cement slabs that have been subjected to adhesive chemical abatement, unless an approved remediation system was used afterwards.
  - 5. Report and rectify all unsatisfactory conditions. Do not start flooring installation until all rectifications have been completed.
- E. Special Requirements for ESD Vinyl Tile:
  - 1. Product Limitations: Do not install over LVT, cushioned vinyl, hardwood flooring, cork, rubber, or asphaltic materials. Do not install ESD Vinyl Tile in outdoor areas, residences, in or around commercial kitchens or areas that may be exposed to animal or vegetable fats and oils, grease and petroleum-based hydrocarbons. Do not install in areas that may be exposed to sharp, pointy objects, such as stiletto heels, cleats or spikes

### 3.3 SUBSTRATE PREPARATION

- A. See "Submittals", Section 1.3, "Submittals" for required installation submittal – to be submitted prior to installation of materials.
- B. All work required ensuring substrate or subfloor meets manufacturers' guidelines are the responsibility of the general contractor. Evaluate existing floor surface. Prepare surface and apply underlayment to all floor surfaces exhibiting the following characteristics:
  - 1. Cracks, gouges or holes exceeding 1/16 inch in any dimension.
  - 2. Cracks with adjacent surfaces exceeding 1/16 inch in height.
  - 3. All expansion, weakened plane, or construction joints.
  - 4. All surfaces exhibiting rough or abraded texture exceeding 1/16 inch amplitude.
  - 5. All surfaces with gap exceeding 3/16 inch under 10 foot metal straight edge.
- C. Prepare existing concrete substrate as recommended by manufacturer, including mechanical shot-blasting or equivalent.
- D. Acid etching is not acceptable.
- E. Prepare existing cracks in substrate as recommended by manufacturer.

- F. Apply filler and trowel to leave a smooth, flat, hard surface.
- G. Prohibit traffic from area until filler is cured. Vacuum clean substrate.
- H. Wood substrate prep. notes in Flexco specs. noted at beginning of section.
- I. Substrates must be free of visible water or moisture, dust, sealers, paint, sweeping compounds, curing compounds, residual adhesives and adhesive removers, concrete hardeners or densifiers, solvents, wax, oil, grease, asphalt, visible alkaline salts or excessive efflorescence, mold, mildew and any other extraneous coating, film, material or foreign matter.
- J. Smooth concrete surfaces, removing rough areas, projections, ridges, and bumps, and filling low spots, control or construction joints, and other defects with [S-453 Level Strong™ cement based self-leveling compound.
- K. Subfloor Preparation Moisture Mitigation: Smooth concrete surfaces, removing rough areas, projections, ridges, and bumps, and filling low spots, control or construction joints, mitigate moisture and other defects with Armstrong Flooring S-454 Prime Strong™ acrylic primer for porous substrates and S-455 Prime Strong™ acrylic primer for non-porous substrates] as recommended by the flooring manufacturer.
- L. Subfloor Cleaning: The surface shall be free of dust, solvents, varnish, paint, wax, oil, grease, sealers, release agents, curing compounds, residual adhesive, adhesive removers and other foreign materials that might affect the adhesion of resilient flooring to the concrete or cause a discoloration of the flooring from below. Remove residual adhesives as recommended by the flooring manufacturer. Remove curing and hardening compounds not compatible with the adhesives used, as indicated by a bond test or by the compound manufacturer's recommendations for flooring. Avoid organic solvents. Spray paints, permanent markers and other indelible ink markers must not be used to write on the back of the flooring material or used to mark the concrete slab as they could bleed through, telegraphing up to the surface and permanently staining the flooring material. If these contaminants are present on the substrate they must be mechanically removed prior to the installation of the flooring material.
- M. It is recommended that all substrates have a floor flatness of FF32 and/or flatness tolerance of 1/8" in 6' or 3/16" in 10'.
- N. Acclimate all products to be used during the installation in the installation environment prior to installation according to the manufacturers written instructions.
- O. Mechanically remove contamination on the substrate that may cause damage to the flooring material, this includes paint, permanent and non-permanent markers, pens, crayons, etc. Leaving these on the substrate or marking with them on the back of the material could cause bleed through and damage the flooring.
- P. Fill cracks, holes, depressions and irregularities in the substrate to prevent transferring through to the surface of the resilient flooring.
- Q. Check panels for sources of discoloration such as contamination from paint, varnish, stain overspray or spills, plumbing sealers, asphalt, heater fuel, markers or potential staining agents such as wood or bark not visible on the surface, edge sealers, logo markings, printed nail patterns and synthetic patches.
- R. Vacuum or broom-clean surfaces to be covered immediately before the application of flooring.
- S. Concrete pH Testing: Perform pH tests on concrete floors regardless of their age or grade level. All test results shall be documented and retained.

1. Moisture Testing:
  - a. Perform moisture testing per the requirements in ASTM F2170.
  - b. Conduct alkalinity and anhydrous calcium chloride testing using prepackaged kit systems approved by flooring manufacturer. Contractor shall employ an independent testing service or lab for moisture testing procedure, including placement and removal. Testing service shall be acceptable to Architect.
  - c. Provide test at coverage rate required by flooring manufacturer, with minimum of 3 tests/first 1,000 square feet and 1 test per each 1,000 square feet after. Distribute uniformly throughout building. Prepare map or diagram of test locations in each building.
  - d. Conduct one set of tests 60 days prior to scheduled flooring installation. Submit test results to Architect within 48 hours of test receipt.
  - e. Conduct second set of tests 14 days prior to scheduled flooring installation. Submit test results to Architect within 48 hours of test receipt.
2. Alkalinity Testing
  - a. Conduct alkalinity testing of slab surface immediately following removal of calcium chloride test kit, in accordance with ASTM F710 procedure.

T. For LVT Product:

1. Level all rough surfaces and fill cracks and marks with a Portland cement-based patching compound modified with latex.
2. Mechanically remove all surface contaminants such as paint, oil, grease, varnish, adhesive as well as various other products such as treatment compounds.
3. Measure the humidity and pH levels in the cement in compliance with the following standards before installation:
  - a. ASTM F 2170, Relative Humidity (RH) test using in situ probes. The maximum allowable reading is 95% RH for M95.0 and MS160.
  - b. ASTM F 710, pH levels (test procedure 5.3.1). The readings should be between 8 and 10.
  - c. The ASTM test frequency recommendation is 3 measures for the first 1,000 sq. ft. (92.9 sq. m) and one measure for each additional 1,000 sq. ft. (92.9 sq. m).
4. Ensure Moisture, Relative Humidity and pH tests have all been conducted and measurements meet manufacturer's recommendations.
5. In case of doubt, test the adhesion on the cement subfloor or other surface that will be covered by the flooring. Do the test using the specified flooring and recommended adhesive.

3.4 INSTALLATION – RESILIENT FLOORING MATERIALS – GENERAL REQUIREMENTS:

- A. Install in accordance with manufacturers' instructions and recommendations. **All LVT flooring should be laser cut to patterns shown in plans.**
- B. Spread only enough adhesive to permit installation of materials before initial set.

- C. Scribe flooring to walls, columns, cabinets, floor outlets, and other appurtenances to produce tight joints.
- D. Install reducer strips at exposed edges or where flooring material changes to another type. Trim reducer width as required to achieve proper thickness at edges of abutting flooring.
- E. Install pattern with all joints aligned.

### 3.5 INSTALLATION - SPECIAL REQUIREMENTS FOR SHEET VINYL FLOORING WITH INTEGRAL COVE BASE:

#### A. General Requirements:

1. Scribe, cut, and fit or flash cove to permanent fixtures, columns, walls, partitions, pipes, outlets, and built-in furniture and cabinets.
2. Prepare sealed seams with special seam adhesive supplied for this purpose. Use methods and sequence of work in conformance with written instructions of the flooring manufacturer. Finish all seams flush and free from voids, recesses, and raised areas.
3. Lay flooring to provide a minimum number of seams. Avoid cross seams, filler pieces, and strips. Match edges for color shading and pattern at the seams in compliance with the manufacturer's recommendations.
4. Provide integral flash cove wall base where shown on the drawings, including cove fillet support strip and top edge cap trim. Construct flash cove base in accordance with the flooring manufacturer's instructions. seam adhesive as specified for those on the floor.

- B. If required, install flooring on pan-type floor access covers. Maintain continuity of color and pattern within pieces of flooring installed on these covers. Adhere flooring to the subfloor around covers and to covers.

#### C. Accessories:

1. Apply top set wall base to walls, columns, casework, and other permanent fixtures in areas where top-set base is required. Install base in lengths as long as practical, with inside corners fabricated from base materials that are mitered or coped. Tightly bond base to vertical substrate with continuous contact at horizontal and vertical surfaces.
2. Fill voids with plastic filler along the top edge of the resilient wall base or integral cove cap on masonry surfaces or other similar irregular substrates.
3. Place resilient edge strips tightly butted to flooring, and secure with adhesive recommended by the edge strip manufacturer. Install edge strips at edges of flooring that would otherwise be exposed.
4. Apply overlap edge strips where shown on the drawings, before flooring installation. Secure units to the substrate, complying with the edge strip manufacturer's recommendations.

### 3.6 INSTALLATION & PRECAUTIONS – SOLID VINYL TILE AND ESD VINYL TILE:

- A. Confirm material installation pattern and direction per design specifications or work order.
- B. Dry-lay several pieces of material in order to determine ideal room layout.

- C. Prior to installation, consult project electrician or electrical engineer regarding the placement of copper straps in order to synchronize copper strap placement with electrical grounding system location.
- D. Do not use Kerosene, Gasoline, Naphtha and/or other solvents to clean vinyl tile.
- E. Install flooring in strict accordance with the latest edition of manufacturer-provided installation manuals. Failure to comply may result in voiding the manufacturer's warranty.
- F. Install flooring wall to wall before the installation of floor-set cabinets, casework, furniture, equipment, movable partitions, etc. Extend flooring into toe spaces, door recesses, closets, and similar openings as shown on the drawings.
- G. Adhere flooring to the subfloor without cracks, voids, raising and puckering at the seams. Roll with a 100-pound (45.36 kilogram) roller in the field areas. Hand-roll flooring at the perimeter and the seams to assure adhesion. Refer to specific rolling instructions of the flooring manufacturer.
- H. Install flooring with adhesives, tools, and procedures in strict accordance with the manufacturer's written instructions. Observe the recommended adhesive trowel notching, open times, and working times.

### 3.7 INSTALLATION – SPECIAL INSTALLATION REQUIREMENTS FOR ESD VINYL TILE:

- A. Install in accordance with manufacturers' instructions and recommendations.
- B. Prior to installation, consult project electrician or electrical engineer regarding the placement of copper straps in order to synchronize copper strap placement with electrical grounding system location.
- C. Prior to installing flooring materials, install copper straps directly into fresh adhesive and trowel adhesive over strap to fully embed strap in adhesive. Copper strap must be at least 18" in length, with at least 9" embedded into adhesive.
- D. Copper grounding straps must be placed every 2000 sq. ft., at least one per room.

### 3.8 INSTALLATION -BASE MATERIAL AND TRANSITION STRIPS

- A. See Section 09 65 13 - Resilient Base and Transition Strips.

### 3.9 PROTECTION AND CLEANING

- A. Perform initial and on-going cleaning and maintenance according to the latest edition of manuals provided by manufacturer.
- B. Protect newly installed material with construction grade paper or protective boards, such as Masonite or Ram Board, to protect material from damage by other trades. Be sure all construction debris is swept up and removed prior to the protective material being installed and does not get trapped underneath. Limit usage and foot traffic according to the adhesive's requirements. When moving appliances or heavy furniture, protect wall base from scuffing and tearing using temporary floor protection.
- C. Prohibit traffic on floor finish for 48 hours after installation.
- D. Remove excess adhesive from floor, base, and wall surfaces without damage.
- E. Clean up installation area and sweep, dust or wipe material to remove any dirt, dust or debris.



- F. Conduct initial maintenance per the manufacturer's recommended procedures stated in the Maintenance Documents.

### 3.10 Closeout Activities

- A. General: Follow all federal, state and local requirements.
- B. Provide closeout documentation as described in Section 1.3, "Submittals"

**END OF SECTION**

# REQUEST FOR INFORMATION (PB)

PROJECT NAME: <b>MLK Nevada Campus Reconstruction Project</b> Increment #2 & 3		JOB NO. 226	
		Pre Bid RFI NO. <b>013.1</b>	
TO: Kevin Marer  <b>JK Architecture Engineering.</b> <b>300 Orchard City Drive, Suite 140</b> <b>Campbell, CA 95008</b>  <b>CC: Jason Cave</b>  <b>Greystone West Company</b>	FROM:  <b>BHM Construction, Inc.</b> <b>221 Gateway Road W, Ste.405,</b> <b>Napa, CA 94558</b>		
SUBJECT: Exterior & Interior Door Schedule & Specifications			
CATEGORY: Hollow Metal Doors & Frames *NEED ADDITIONAL INFORMATION			
Spec Section: 08 11 13	PARAGRAPH NO.:	DRAWING NO: A5.3.1-2 A8.2.1-2	DETAIL:
DISCRIPTION:  The revised exterior & interior door schedules and Specifications Hardware Schedule have some conflicts. <ul style="list-style-type: none"><li>• Exterior Hardware Group 6 on sheet A5.3.1-2 calls out doors C117, D108 and D110 as HWG #6. The Specifications shows these same doors as HWG #7.</li><li>• Interior Door Schedule A8.2.1-2 shows door A121 in HWG 10. Not shown in Specifications.</li></ul> Please advise.			
<input type="checkbox"/> COST IMPACT: TBD \$ EST. <input type="checkbox"/> TIME IMPACT: _EST.TBD			
CONTRACTOR SIGNATURE:		DATE ISSUED: 4.01.24	DATE REQUIRED:04/01/24

RESPONSE:

A5.3.1-2 has been updated to show doors C117, D108, and D110 as HWG #07. Interior door A121 has been added into the spec under HWG #10.

ATTACHMENTS: A5.3.1-2 and Specification 08 71 00

ARCHITECT  
SIGNATURE: 

DATE: 04/01/2024

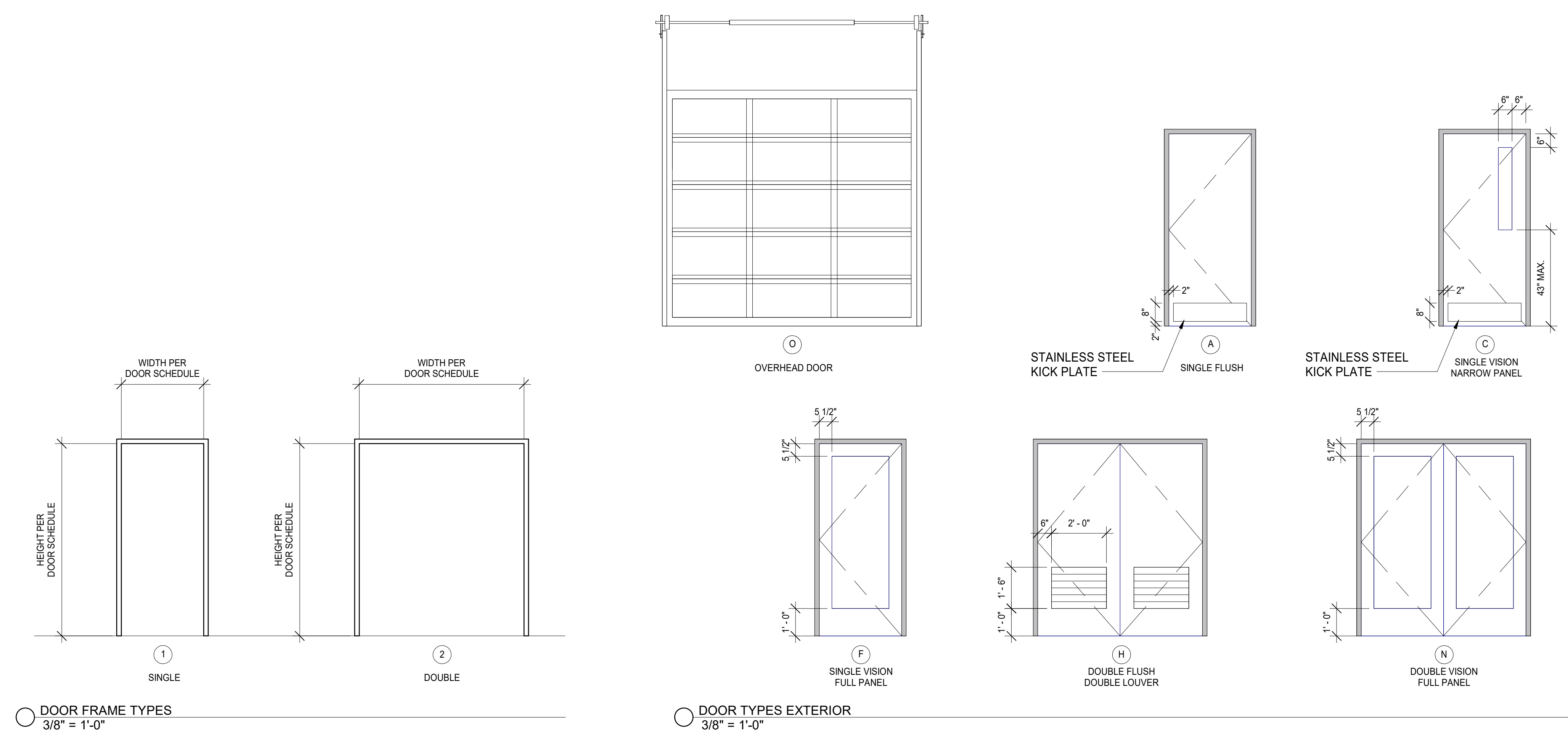
UPDATES SHOWN IN THE ATTACHED SHEETS WILL ALSO BE INCLUDED IN V3 DOCUMENTS SUBMITTED TO DSA

DOOR SCHEDULE_EXTERIOR_inc 2																
NO.	DOOR				FRAME				Head Detail	Jamb Detail	Threshold Detail	FIRE RATING	PANIC HARDWARE	HARDWARE GROUP	REMARKS	
	WIDTH	HEIGHT	TYPE	MAT.	FIN.	GLASS TYPE	MAT.	FIN.								
<b>A</b>																
A100a	6'-0"	7'-10"	N	ALUM	FF	GL-1	SF	ALUM	FF	2/A5.5.1-2	9/A5.5.2-2	5/A5.5.1-2	-	YES	08A	SEE SF1
A100b	6'-0"	7'-10"	N	ALUM	FF	GL-1	SF	ALUM	FF	2/A5.5.1-2	9/A5.5.2-2	5/A5.5.1-2	-	YES	08A	SEE SF1
A102a	3'-0"	7'-10"	F	ALUM	FF	GL-1	SF	ALUM	FF	4/A5.5.1-2	3/A5.5.1-2	5/A5.5.1-2	-	NO	05	SEE SF9
A108a	3'-0"	7'-10"	C	ALUM	FF	GL-1	SF	ALUM	FF	2/A5.5.1-2	1/A5.5.1-2	5/A5.5.1-2	-	YES	03A	SEE SF9
A118	3'-0"	7'-10"	A	HM	PAINT	-	1	HM	PAINT	11/A5.5.1-2	10/A5.5.1-2	9/A5.5.1-2	-	NO	06	
A119	3'-0"	7'-10"	A	HM	PAINT	-	1	HM	PAINT	11/A5.5.1-2	10/A5.5.1-2	9/A5.5.1-2	-	NO	07	
<b>B</b>																
B101	6'-0"	7'-0"	N	ALUM	FF	GL-1	SF	ALUM	FF	N/A	3/A5.5.1-2	5/A5.5.1-2	-	NO	08	SEE SF8
B102	6'-0"	7'-0"	N	ALUM	FF	GL-1	SF	ALUM	FF	N/A	3/A5.5.1-2	5/A5.5.1-2	-	NO	08	SEE SF8
B103	6'-0"	7'-0"	N	ALUM	FF	GL-1	SF	ALUM	FF	N/A	3/A5.5.1-2	5/A5.5.1-2	-	NO	08	SEE SF8
B104	6'-0"	7'-0"	N	ALUM	FF	GL-1	SF	ALUM	FF	N/A	3/A5.5.1-2	5/A5.5.1-2	-	NO	08	SEE SF8
B105	3'-0"	7'-0"	F	ALUM	FF	GL-1	SF	ALUM	FF	2/A5.5.1-2	1/A5.5.1-2	5/A5.5.1-2	-	NO	03	SEE SF9
B106	3'-0"	7'-0"	A	HM	PAINT	-	1	HM	PAINT	11/A5.5.1-2	10/A5.5.1-2	9/A5.5.1-2	-	NO	06	
B107	3'-0"	7'-0"	A	HM	PAINT	-	1	HM	PAINT	11/A5.5.1-2	10/A5.5.1-2	9/A5.5.1-2	-	NO	07	
B108	6'-0"	7'-10"	N	ALUM	FF	GL-1	SF	ALUM	FF	2/A5.5.1-2	9/A5.5.2-2	5/A5.5.1-2	-	NO	08	SEE SF6
B109	6'-0"	7'-0"	H	HM	PAINT	-	2	HM	PAINT	7/A5.5.1-2	6/A5.5.1-2	9/A5.5.1-2	-	NO	09	
B110	3'-0"	7'-0"	F	ALUM	FF	GL-1	SF	ALUM	FF	4/A5.5.1-2	3/A5.5.1-2	5/A5.5.1-2	-	NO	04	SEE SF9
<b>C</b>																
C101	3'-0"	7'-10"	F	ALUM	FF	GL-1	SF	ALUM	FF	4/A5.5.1-2	3/A5.5.1-2	5/A5.5.1-2	-	NO	04	
C102a	6'-0"	7'-10"	N	ALUM	FF	GL-1	SF	ALUM	FF	2/A5.5.1-2	N/A	5/A5.5.1-2	-	YES	08A	SEE SF6
C102b	6'-0"	7'-10"	N	ALUM	FF	GL-1	SF	ALUM	FF	4/A5.5.1-2	3/A5.5.1-2	5/A5.5.1-2	-	YES	08A	
C102c	3'-0"	7'-10"	F	ALUM	FF	GL-1	SF	ALUM	FF	2/A5.5.1-2	1/A5.5.1-2	5/A5.5.1-2	-	YES	03A	
C104a	3'-0"	7'-10"	F	ALUM	FF	GL-1	SF	ALUM	FF	4/A5.5.1-2	3/A5.5.1-2	5/A5.5.1-2	-	YES	03A	
C104b	3'-0"	7'-10"	F	ALUM	FF	GL-1	SF	ALUM	FF	2/A5.5.1-2	1/A5.5.1-2	5/A5.5.1-2	-	YES	03A	
C106a	3'-0"	7'-10"	F	ALUM	FF	GL-1	SF	ALUM	FF	4/A5.5.1-2	3/A5.5.1-2	5/A5.5.1-2	-	NO	04	
C106b	0'-0"	0'-0"	GG					HM	PAINT	3/A5.5.2-2	2/A5.5.2-2	1/A5.5.2-2	-	N/A	19	OVERHEAD DOOR
C107	3'-0"	7'-10"	A	HM	PAINT	-	1	HM	PAINT	7/A5.5.1-2	6/A5.5.1-2	9/A5.5.1-2	-	NO	02	
C108	3'-0"	7'-10"	A	HM	PAINT	-	1	HM	PAINT	7/A5.5.1-2	6/A5.5.1-2	9/A5.5.1-2	-	NO	02	
C109	3'-0"	7'-10"	A	HM	PAINT	-	1	HM	PAINT	7/A5.5.1-2	6/A5.5.1-2	9/A5.5.1-2	-	NO	01	
C110	6'-0"	7'-10"	N	ALUM	FF	GL-1	SF	ALUM	FF	2/A5.5.1-2	N/A	5/A5.5.1-2	-	NO	08	SEE SF10
C112	6'-0"	7'-10"	N	ALUM	FF	GL-1	SF	ALUM	FF	2/A5.5.1-2	N/A	5/A5.5.1-2	-	NO	08	SEE SF10
C114	3'-0"	7'-10"	A	HM	PAINT	-	1	HM	PAINT	7/A5.5.1-2	6/A5.5.1-2	9/A5.5.1-2	-	NO	06	
C115	3'-0"	7'-10"	A	HM	PAINT	-	1	HM	PAINT	7/A5.5.1-2	6/A5.5.1-2	9/A5.5.1-2	-	NO	06	
C117	3'-0"	7'-10"	A	HM	PAINT	-	1	HM	PAINT	7/A5.5.1-2	6/A5.5.1-2	9/A5.5.1-2	-	NO	07	
<b>D</b>																
D101	6'-0"	7'-0"	N	ALUM	FF	GL-1	SF	ALUM	FF	N/A	3/A5.5.1-2	5/A5.5.1-2	-	NO	08	SEE SF8
D102	6'-0"	7'-0"	N	ALUM	FF	GL-1	SF	ALUM	FF	N/A	3/A5.5.1-2	5/A5.5.1-2	-	NO	08	SEE SF8
D103	6'-0"	7'-0"	N	ALUM	FF	GL-1	SF	ALUM	FF	N/A	3/A5.5.1-2	5/A5.5.1-2	-	NO	08	SEE SF8
D104	6'-0"	7'-0"	N	ALUM	FF	GL-1	SF	ALUM	FF	N/A	3/A5.5.1-2	5/A5.5.1-2	-	NO	08	SEE SF8
D105	3'-0"	7'-0"	A	HM	PAINT	-	1	HM	PAINT	11/A5.5.1-2	10/A5.5.1-2	9/A5.5.1-2	-	NO	02	
D106	3'-0"	7'-0"	A	HM	PAINT	-	1	HM	PAINT	11/A5.5.1-2	10/A5.5.1-2	9/A5.5.1-2	-	NO	02	
D107	3'-0"	7'-0"	A	HM	PAINT	-	1	HM	PAINT	11/A5.5.1-2	10/A5.5.1-2	9/A5.5.1-2	-	NO	01	
D108	3'-0"	7'-0"	A	HM	PAINT	-	1	HM	PAINT	11/A5.5.1-2	10/A5.5.1-2	9/A5.5.1-2	-	NO	07	
D109	3'-0"	7'-0"	A	HM	PAINT	-	1	HM	PAINT	11/A5.5.1-2	10/A5.5.1-2	9/A5.5.1-2	-	NO	06	
D110	3'-0"	7'-0"	A	HM	PAINT	-	1	HM	PAINT	11/A5.5.1-2	10/A5.5.1-2	9/A5.5.1-2	-	NO	07	
D111	3'-0"	7'-0"	A	HM	PAINT	-	1	HM	PAINT	11/A5.5.1-2	10/A5.5.1-2	9/A5.5.1-2	-	NO	06	
D114	3'-0"	7'-0"	A	HM	PAINT	-	1	HM	PAINT	11/A5.5.1-2	10/A5.5.1-2	9/A5.5.1-2	-	NO	06	

- GLASS TYPES**
- GL-1 INSULATING, TEMPERED GLASS, CLEAR, LOW-E - 08 81 00
  - GL-2 INSULATING, TEMPERED GLASS, CLEAR - 08 81 00
  - GL-3 GLASS, CLEAR - 08 81 00
- MATERIALS**
- ALUM ALUMINUM
  - HM HOLLOW METAL
  - WD WOOD
  - STL STEEL
- FINISHES**
- PF-1 PAINT - SEMI-GLOSS - 09 91 00
  - PF-2 PAINT - EGGSHELL - 09 91 00
  - PF-3 PAINT - SEMI-GLOSS ENAMEL - 09 91 00
  - PF-4 PAINT - FERROUS METAL PIPING, MISC METALS - 09 91 00
  - PF-5 PAINT - GALVANIZED DUCTWORK, ELECT CONDUIT - 09 91 00
  - PF-6 PAINT - EPOXY - 09 91 00
  - STN-1 FACTORY STAIN FINISH - 08 14 00
  - PEX-1 PAINT - STEEL DOORS & FRAMES - 09 91 00
  - PEX-2 PAINT - HIGH PERFORMANCE COATING - 09 91 00
  - PEX-3 PAINT - FERROUS METAL PIPING, MISC METALS - 09 91 00
  - PEX-4 PAINT - FLAT FINISH ACRYLIC - 09 91 00
  - FF FACTORY FINISH

- GENERAL NOTES**
- ROOM IDENTIFICATION SIGNAGE (IRS-1B) - SPEC SECTION 10 14 00 FOR MOUNTING HEIGHT SEE DETAIL 1&2/G4.2-2
  - TOILET ROOM IDENTIFICATION SIGNAGE (IRR-#) - SPEC SECTION 10 14 00 FOR MOUNTING HEIGHT SEE DETAIL 1&2/G4.2-2
  - BUILDING DIRECTIONAL SIGNAGE (BDS) - SPEC SECTION 10 14 00 FOR MOUNTING HEIGHT SEE DETAIL 1&2/G4.2-2
  - TOILET ROOM DOOR SYMBOLS (RR-#) - SPEC SECTION 10 14 00 FOR MOUNTING HEIGHT SEE DETAIL 1/G4.2-2
  - SAFETY SIGNAGE (SS) - SPEC SECTION 10 14 00.
  - GLASS TRANSOM (GLAZING TO MATCH DOOR GLAZING) - SPEC SECTION 08 81 00
  - PANIC HARDWARE - SPEC SECTION 08 71 00
  - ALL EXTERIOR DOOR GLAZING TO COMPLY WITH CBC 708A.2.1.

DSA APP. NO. 01-121006



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Project: SAUSALTO MARIN CITY SCHOOL DISTRICT  
 DR. MARTIN LUTHER KING JR. ACADEMY  
 636 NEVADA STREET, SAUSALITO, CA 94965

100% CONSTRUCTION DOCUMENTS

Drawn By: KM  
 Checked By: AT

Project No.: 22-180  
 Date: 03/28/2024  
 Drawing No.: A5.3.1-2

**SECTION 08 71 00**  
**DOOR HARDWARE**

**PART 1 - GENERAL**

1.01 RELATED DOCUMENTS

- A. Drawings and general provisions of Contract, including General and Supplementary Conditions of Division 1 Specification Sections, apply to this Section.

1.02 SUMMARY

- A. This Section includes items known commercially as finish or door hardware that are required for swing, sliding, and folding doors, except special types of unique hardware specified in the same sections as the doors and door frames on which they are installed.
- B. This Section includes the following, but is not necessarily limited to:
  - 1. Door Hardware, including electric hardware.
  - 2. Storefront and Entrance door hardware.
  - 3. Gate Hardware.
  - 4. Digital keypad access control devices.
  - 5. Hold-open closers with smoke detectors.
  - 6. Wall or floor-mounted electromagnetic hold-open devices.
  - 7. Power supplies for electric hardware.
  - 8. Low-energy door operators plus sensors and actuators.
  - 9. Thresholds, gasketing and weather-stripping.
  - 10. Door silencers or mutes.
- C. Related Sections: The following sections are noted as containing requirements that relate to this Section, but may not be limited to this listing.
  - 1. Division 8: Section - Steel Doors and Frames.
  - 2. Division 8: Section - Wood Doors.
  - 3. Division 8: Section - Aluminum Storefront
  - 4. Division 28: Section - Fire/Life-Safety Systems & Security Access Systems.

1.03 REFERENCES (USE DATE OF STANDARD IN EFFECT AS OF BID DATE.)

- A. 2022 California Building Code, CCR, Title 24.
- B. BHMA – Builders’ Hardware Manufacturers Association
- C. CCR – California Code of Regulations, Title 24, Part 2, California State Accessibility Standards.
- D. DHI – Door and Hardware Institute
- E. NFPA - National Fire Protection Association.

1. NFPA 80 - Fire Doors and Other Opening Protectives
2. NFPA 105 - Smoke and Draft Control Door Assemblies

F. UL - Underwriters Laboratories.

1. UL 10C - Fire Tests of Door Assemblies
2. UL 305 - Panic Hardware

G. WHI - Warnock Hersey Incorporated

H. SDI - Steel Door Institute

1.04 SUBMITTALS & SUBSTITUTIONS

- A. General: Submit in accordance with Conditions of the Contract and Division 1 Specification sections.
- B. Submit product data (catalog cuts) including manufacturers' technical product information for each item of door hardware, installation instructions, maintenance of operating parts and finish, and other information necessary to show compliance with requirements.
- C. Submit six (6) copies of schedule organized vertically into "Hardware Sets" with index of doors and headings, indicating complete designations of every item required for each door or opening. Include following information:
  1. Include a Cover Sheet with;
    - a. Job Name, location, telephone number.
    - b. Architects name, location and telephone number.
    - c. Contractors name, location, telephone number and job number.
    - d. Suppliers name, location, telephone number and job number.
    - e. Hardware consultant's name, location and telephone number.
  2. Job Index information included;
    - a. Numerical door number index including; door number, hardware heading number and page number.
    - b. Complete keying information (referred to DHI hand-book "Keying Systems and Nomenclature"). Provision should be made in the schedule to provide keying information when available; if it is not available at the time the preliminary schedule is submitted.
    - c. Manufacturers' names and abbreviations for all materials.
    - d. Explanation of abbreviations, symbols, and codes used in the schedule.
    - e. Mounting locations for hardware.
    - f. Clarification statements or questions.
    - g. Catalog cuts and manufacturer's technical data and instructions.
  3. Vertical schedule format sample:

Heading Number 1 (Hardware group or set number – HW -1)					
			(a) 1 Single Door #1 - Exterior from Corridor 101	(b) 90°	(c) RH

			(d) 3' 0"x7' 0" x 1-3/4" x (e) 20 Minute (f) WD x HM		
(g) 1	(h)	(i) ea	(j) Hinges - (k) 5BB1HW 4.5 x 4.5 NRP (l) 1/2 TMS	(m) 626	(n) IVE
2	6AA	1 ea	Lockset - ND50PD x RHO x RH x 10-025 x JTMS	626	SCH

(a) - Single or pair with opening number and location. (b) - Degree of opening (c) - Hand of door(s) (d) - Door and frame dimensions and door thickness. (e) - Label requirements if any. (f) - Door by frame material. (g) - (Optional) Hardware item line #. (h) - Keyset Symbol. (i) - Quantity. (j) - Product description. (k) - Product Number. (l) - Fastenings and other pertinent information. (m) - Hardware finish codes per ANSI A156.18. (n) - Manufacture abbreviation.

- D. Make substitution requests in accordance with Division 1. Substitution requests must be made prior to bid date. Include product data and indicate benefit to the project. Furnish samples of any proposed substitution.
- E. Wiring Diagrams: Provide product data and wiring and riser diagrams for all electrical products listed in the Hardware Schedule portion of this section.
- F. Keying Schedule: Submit separate detailed schedule indicating clearly how the Owner's final instructions on keying of locks has been fulfilled.
- G. Templates for doors, frames, and other work specified to be factory prepared for the installation of door hardware. Check shop drawings of other work to confirm that adequate provisions are made for locating and installing door hardware to comply with indicated requirements.
- H. Furnish as-built/as-installed schedule with close-out documents, including keying schedule and transcript, wiring/riser diagrams, manufacturers' installation and adjustment and maintenance information.
- I. Fire Door Assembly Testing: Submit a written record of each fire door assembly to the Owner to be made available to the Authority Having Jurisdiction (AHJ) for future building inspections.

1.05 QUALITY ASSURANCE

- A. Obtain each type of hardware (latch and lock sets, hinges, closers, exit devices, etc.) from a single manufacturer.
- B. Supplier Qualifications: A recognized architectural door hardware supplier, with warehousing facilities in the project's vicinity, that has a record of successful in-service performance for supplying door hardware similar in quantity, type, and quality to that indicated for this project and that employs an experienced architectural hardware consultant (AHC) who is available to Owner, Architect, and Contractor, at reasonable times during the course of the Work, for consultation.

1. Responsible for detailing, scheduling and ordering of finish hardware.
  2. Meet with Owner to finalize keying requirements and to obtain final instructions in writing.  
To maintain the integrity of patented key systems provide a letter of authorization from the specified manufacturer indicating that supplier has authorization to purchase the key system directly from the manufacturer.
  3. Stock parts for products supplied and are capable of repairing and replacing hardware items found defective within warranty periods.
- C. Hardware Installer: Company specializing in the installation of commercial door hardware with five years documented experience.
- D. Fire-Rated Openings: Provide door hardware for fire-rated openings that complies with NFPA Standard No. 80 and requirements of authorities having jurisdiction. Provide only items of door hardware that are listed and tested by UL or Warnock Hersey for given type/size opening and degree of label. Provide proper latching hardware, door closers, approved-bearing hinges and seals whether listed in the Hardware Schedule or not.
1. Where emergency exit devices are required on fire-rated doors, (with supplementary marking on doors' UL labels indicating "Fire Door to be Equipped with Fire Exit Hardware") provide UL label on exit devices indicating "Fire Exit Hardware".
- E. Exit Doors: Operable from inside with single motion without the use of a key or special knowledge or effort.

#### 1.06 DELIVERY, STORAGE AND HANDLING

- A. Coordinate delivery of packaged hardware items to the appropriate locations (shop or field) for installation.
- B. Hardware items shall be individually packaged in manufacturers' original containers, complete with proper fasteners. Clearly mark packages on outside to indicate contents and locations in hardware schedule and in work.
- C. Provide locked storage area for hardware, protect from moisture, sunlight, paint, chemicals, etc.
- D. Contractor to inventory door hardware jointly with representatives of hardware supplier and hardware installer until each all are satisfied that count is correct.
- E. Exit Doors: Operable from inside with single motion without the use of a key or special knowledge or effort.
- F. Product packaging to be labelled in compliance with CA Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986.

#### 1.07 WARRANTY

- A. Provide warranties of respective manufacturers' regular terms of sale from day of final acceptance as follows:



1. Locksets: “L” Series (3) years – “ND” Ten (10) years.
2. Electronic: One (1) year.
3. Closers: Thirty (30) years.
4. Exit devices: Three (3) years.
5. All other hardware: Two (2) years.

1.08 MAINTENANCE

- A. Maintenance Tools and Instructions: Furnish a complete set of specialized tools and maintenance instructions as needed for Owner's continued adjustment, maintenance, and removal and replacement of door hardware.

1.09 PRE-INSTALLATION CONFERENCE

- A. Convene a pre-installation conference at least one week prior to beginning work of this section.
- B. Attendance: Architect, Construction Manager, Contractor, Security Contractor, Hardware Supplier, Installer, Key District Personnel, and Project Inspector.
- C. Agenda: Review hardware schedule, products, installation procedures and coordination required with related work. Review District's keying standards.

**PART 2 - PRODUCTS**

2.01 MANUFACTURERS

<u>Item</u>	<u>Manufacturer</u>	<u>Acceptable Substitutes</u>
Hinges	Ives	Hager, Stanley, McKinney
Locks, Latches & Cylinders	Schlage	No Substitutions
Exit Devices	Von Duprin	No Substitutions
Closers	LCN	No Substitutions
Push, Pulls & Protection Plates	Ives	Trimco, BBW, DCI
Flush Bolts	Ives	Trimco, BBW, DCI
Dust Proof Strikes	Ives	Trimco, BBW, DCI
Coordinators	Ives	Trimco, BBW, DCI
Stops	Ives	Trimco, BBW, DCI
Overhead Stops	Glynn-Johnson	Or Approved Equal

Thresholds	Zero	Pemko, National Guard
Seals & Bottoms	Zero	Pemko, National Guard

## 2.02 MATERIALS

- A. Hinges: Exterior out-swinging door butts shall be non-ferrous material and shall have stainless steel hinge pins. All doors to have non-rising pins.
1. Hinges shall be sized in accordance with the following:
    - a. Height:
      - 1) Doors up to 42" wide: 4-1/2" inches.
      - 2) Doors 43" to 48" wide: 5 inches.
    - b. Width: Sufficient to clear frame and trim when door swings 180 degrees.
    - c. Number of Hinges: Furnish 3 hinges per leaf to 7'-5" in height. Add one for each additional 2 feet in height.
  2. Furnish non-removable pins (NRP) at all exterior out-swing doors and interior key lock doors with reverse bevels.
- B. Floor Closers: Shall be equipped with compression springs, cam and roller operating mechanism and a one piece spindle-cam for maximum operating performance and longevity.
- C. Pivots: High strength forgings and castings with precision bearings for smooth operation. Positive locking vertical adjustment mechanism to allow installer to precisely position the door and balance the load.
- D. Continuous Hinges: As manufactured by Ives, an Allegion Company. UL rated as required.
- E. Heavy Duty Cylindrical Locks and Latches: Schlage "ND" Series as scheduled with "Rhodes" design, fastened with through-bolts and threaded chassis hubs.
1. Provide cylindrical locksets exceeding the ANSI/BHMA A156.2 Grade 1 performance standards for strength, security, and durability in the categories below:
    - a. Abusive Locked Lever Torque Test – minimum 3,100 inch-pounds without gaining access
    - b. Offset lever pull – minimum 1,600 foot pounds without gaining access
    - c. Vertical lever impact – minimum 100 impacts without gaining access
  2. Cycle life - tested to minimum 16 million cycles per ANSI/BHMA A156.2 Cycle Test with no visible lever sag or use of performance aids such as set screws or spacers
  3. UL 10C for 4'-0" x 10'-0" 3-hour fire door.
  4. Cylinders: Refer to "KEYING" article, herein.
  5. Provide solid steel anti-rotation through bolts and posts to control excessive rotation of lever.
  6. Provide lockset that allows lock function to be changed to over twenty other common functions by swapping easily accessible parts.
  7. Provide locks with standard 2-3/4 inches (70 mm) backset, unless noted otherwise, with 1/2 inch latch throw capable of UL listing of 3 hours on a 4' x 10' opening. Provide proper latch throw for UL listing at pairs.

8. Provide locksets with separate anti-rotation thru-bolts, and no exposed screws.
  9. Provide independently operating levers with two external return spring cassettes mounted under roses to prevent lever sag.
  10. Provide standard ASA strikes unless extended lip strikes are necessary to protect trim.
  11. Provide wired electrified options as scheduled in the hardware sets.
    - a. 12 through 24 volt DC operating capability, auto-detecting
    - b. Selectable EL (fail safe)/EU (fail secure) operating mode via switch on chassis
    - c. 0.230A (230mA) maximum current draw
    - d. 0.010A (10mA) holding current
    - e. Modular / "plug in" request to exit switch
  12. Lever Trim: Solid cast levers without plastic inserts, and wrought roses on both sides.
- F. Schlage "L" Series as scheduled with "06" Style Lever and "N" Style Escutcheon.
1. Locksets to comply with ANSI A156.13, Series 1000, Operational Grade 1 and Security Grade 1 with all standard trims. Locksets shall also comply with UL10C Positive Pressure requirements
  2. Lock case shall be manufactured with heavy 12 gauge steel with fully wrapped design. Lock cases with exposed edges are not acceptable. Lock case shall be multi-functional allowing transformation to a different function without opening lock case.
  3. Latchbolt shall have ¾" throw and be non-handed, field reversible without opening the lock case. Solid latchbolts and / or plastic anti-friction devices are not acceptable.
  4. The deadbolt, when used, shall be 1" throw stainless steel with a ¾" internal engagement when fully extended.
  5. All trim shall be through-bolted with the spring cages supporting the trim attached to the lock cases to prevent torqueing.
  6. Levers to have independent rotation in both directions. Exterior lever assembly to be one-piece design attached by threaded bushing. Interior lever assembly shall be attached by screwless shank
  7. Thru-bolt lever assemblies through the door for positive interlock. Locks using a through the door spindle for attachment are not acceptable. Spindles shall be independent, designed to "break-away" at a maximum of 75psi torque.
  8. Hand of lock chassis to be changeable by simply moving one screw from one side to the case to the other and pulling and reversing the latchbolt.
  9. Cylinders to be secured by a cast stainless steel, dual retainer. Locks utilizing screws and / or stamped retainers are not acceptable.
- G. Deadlocks: Rotating cylinder trim rings of attack-resistant design. Mounting plates and actuator shields of plated cold-rolled steel. Mounting screws of ¼" diameter steel and protected by drill-resistant ball bearings. Steel alloy deadbolt with hardened steel roller. Strike alloy deadbolt with reinforcer and two 3" long screws. ANSI A156.5, 2001 Grade 1 certified.
- H. Exit devices: Von Duprin as scheduled.
1. Provide certificate by independent testing laboratory that device has completed over 1,000,000 cycles and can still meet ANSI/BHMA A156.3 - 2001 standards.
  2. All internal parts shall be of cold-rolled steel with zinc dichromate coating.
  3. Mechanism case shall have an average thickness of .140".

4. Compression spring engineering.
  5. Non-handed basic device design with center case interchangeable with all functions.
  6. All devices shall have quiet return fluid dampeners.
  7. All latchbolts shall be deadlocking with ¾" throw and have a self-lubricating coating to reduce friction and wear.
  8. Device shall bear UL label for fire and or panic as may be required.
  9. All surface strikes shall be roller type and utilize a plate underneath to prevent movement.
  10. Lever Trim: "Breakaway" design, forged brass or bronze escutcheon with a minimum of .130" thickness, match lockset lever design.
  11. Removable Mullions: Removable with single turn of building key. Securely reinstalled without need for key.
  12. Furnish glass bead kits for vision lites where required.
  13. All Exit Devices to be sex-bolted to the doors.
  14. Panic Hardware shall comply with CBC Section 11B.404.2.7 and shall be mounted between 34" and 44" above the finished floor surface.
    - a. Provide exit devices UL certified to meet maximum 5 pound requirements according to the California Building Code section 11B-309.4, and UL listed for Panic Exterior Fire Exit Hardware maximum opening force of 15 pounds according to the California Building Code section 11B-404.2.9.
- I. Closers: LCN as scheduled. Place closers inside building, stairs, room, etc.
1. Door closer cylinders shall be of high strength cast iron construction with double heat treated pinion shaft to provide low wear operating capabilities of internal parts throughout the life of the installation. All door closers shall be tested to ANSI/BHMA A156.4 test requirements by a BHMA certified testing laboratory. A written certification showing successful completion of a minimum of 10,000,000 cycles must be provided.
  2. All door closers shall be fully hydraulic and have full rack and pinion action with a shaft diameter of a minimum of 11/16 inch and piston diameter of 1 inch to ensure longevity and durability under all closer applications.
  3. All parallel arm closers shall incorporate one piece solid forged steel arms with bronze bushings. 1-9/16" steel stud shoulder bolts, shall be incorporated in regular arms, hold-open arms, arms with hold open and stop built in. All other closers to have forged steel main arms for strength, durability, and aesthetics for versatility of trim accommodation, high strength and long life.
  4. All parallel arm closers so detailed shall provide advanced backcheck for doors subject to severe abuse or extreme wind conditions. This advanced backcheck shall be located to begin cushioning the opening swing of the door at approximately 45 degrees. The intensity of the backcheck shall be fully adjustable by tamper resistant non-critical screw valve.
  5. Closers shall be installed to permit doors to swing 180 degrees.
  6. All closers shall utilize a stable fluid withstanding temperature range of 120 degrees F. to -30 degrees F. without requiring seasonal adjustment of closer speed to properly close the door.
  7. Provide the manufactures drop plates, brackets and spacers as required at narrow head rails and special frame conditions. NO wood plates or spacers will be allowed.
  8. Maximum effort to operate closers shall not exceed 5 lbs., such pull or push effort being applied at right angles to hinged doors. Compensating devices or automatic door

operators may be utilized to meet the above standards. When fire doors are required, the maximum effort to operate the closer may be increased but shall not exceed 15 lbs. when specifically approved by fire marshal. All closers shall be adjusted to operate with the minimum amount of opening force and still close and latch the door. These forces do not apply to the force required to retract latch bolts or disengage other devices that hold the door in a closed position. Per 11B-404.2.8.1, door shall take at least 5 seconds to move from an open position of 90 degrees to a position of 12 degrees from the latch jamb.

- J. Flush Bolts & Dust Proof Strikes: Automatic Flush Bolts shall be of the low operating force design. Utilize the top bolt only model for interior doors where applicable and as permitted by testing procedures.
1. Manual flush bolts only permitted on storage or mechanical openings as scheduled.
  2. Provide dust proof strikes at openings using bottom bolts.
- K. Door Stops:
1. Unless otherwise noted in Hardware Sets, provide floor type with appropriate fasteners. Where wall type cannot be used, provide floor type. If neither can be used, provide overhead type.
  2. Do not install floor stops more than four (4) inches from the face of the wall or partition (CBC Section 11B-307).
  3. Overhead stops shall be made of stainless steel and non-plastic mechanisms and finished metal end caps. Field-changeable hold-open, friction and stop-only functions.
- L. Protection Plates: Fabricate either kick, armor, or mop plates with four beveled edges. Provide kick plates 10" high and 2" LDW. Sizes of armor and mop plates shall be listed in the Hardware Schedule. Furnish with machine or wood screws of bronze or stainless to match other hardware.
- M. Thresholds: As Scheduled and per details.
1. Thresholds shall not exceed 1/2" in height, with a beveled surface of 1:2 maximum slope.
  2. Set thresholds in a full bed of butyl-rubber or polyisobutylene mastic sealant complying with requirements in Division 7 "Thermal and Moisture Protection".
  3. Use 1/4" fasteners, red-head flat-head sleeve anchors (SS/FHSL).
  4. Thresholds shall comply with CBC Section 11B-404.2.5.
- N. Seals: Provide silicone gasket at all rated and exterior doors.
1. Fire-rated Doors, Resilient Seals: UL10C Classified complies with NFPA 80 & NFPA 252. Coordinate with selected door manufacturers' and selected frame manufacturers' requirements.
  2. Fire-rated Doors, Intumescent Seals: Furnished by selected door manufacturer. Furnish fire-labeled opening assembly complete and in full compliance with UL10C Classified complies with NFPA 80 & NFPA 252. Where required, intumescent seals vary in requirement by door type and door manufacture -- careful coordination required.
  3. Smoke & Draft Control Doors, Provide UL10C Classified complies with NFPA 80 & NFPA 252 for use on "S" labeled Positive Pressure door assemblies.

- O. Door Shoes & Door Top Caps: Provide door shoes at all exterior wood doors and top caps at all exterior out-swing doors.
- P. Silencers: Furnish silencers for interior hollow metal frames, 3 for single doors, 2 for pairs of doors. Omit where sound or light seals occurs, or for fire-resistive-rated door assemblies.

## 2.03 KEYING

- A. Furnish PrimusXP “Classic” keyway Patent Protected Schlage cylinders where noted. Furnish all other cylinders in matching conventional “Classic” keyway. Furnish Patent Protected Schlage keys for all cylinders. (e.g. Primus XP Classic Keyway for patent protected / Maximum control) (with mix of conventional “Classic” keyway)
- B. Furnish construction keying for doors requiring locking during construction.
  - 1. For FSIC systems provide 23-030-ICX Full Size Construction Cores
  - 2. For FSIC systems provide ten 48-101-ICX Construction Keys
  - 3. For FSIC systems provide two 48-056-ICX Control Keys (const.)
  - 4. For FSIC systems provide two control keys for installing the permanent cores (49-056 for “Classic” keyways, 48-052-XP for “Classic Primus”) (49-003 for “Everest Conventional”, 48-005-XP for “Everest Primus”)
- C. Furnish all keys with visual key control.
  - 1. Stamp key “Do Not Duplicate”.
  - 2. Stamp unique owner identifier from the key bow.
- D. Furnish all cylinders with visual key control.
  - 1. Stamp unique owner supplied code on cylinder side. (CKC) (6 character maximum).
- E. Furnish mechanical keys as follows:
  - 1. Furnish 2 cut change keys for each different change key code.
  - 2. Furnish 1 uncut key blank for each change key code.
  - 3. Furnish 6 cut masterkeys for each different masterkey set.
  - 4. Furnish 3 uncut key blanks for each masterkey set.
  - 5. Furnish 2 cut control keys cut to the top masterkey for permanent I/C cylinders.
  - 6. Furnish 1 cut control key cut to each SKD combination.
- F. Furnish Schlage Padlocks and the cylinders to tie them into the masterkey system for gates, storage boxes, utility valve security, roof hatches and roll-up doors keyed as directed in the keying schedule.
  - 1. Furnish KS43D2200 padlock for use with non-I/C Schlage cylinders. Furnish 47-413 (conventional) or 47-743-XP (PrimusXP) with above.
  - 2. Furnish KS43G3200 padlock for use with FSIC Schlage cylinders. Furnish 23-030 (Classic / Everest) or 20-740 (PrimusXP) with above.
  - 3. Furnish KS41D1200 padlock for use with SFIC Schlage cylinders. Furnish 80-037 (Everest-B) with above.

G. Furnish one Schlage cabinet lock for each cabinet door or drawer so designated on the drawings or keying schedule to match the masterkey system.

1. Furnish CL100PB for use with non-I/C Schlage cylinders.
2. Furnish CL77R for use with FSIC Schlage cylinders.
3. Furnish CL721G for use with SFIC Schlage cylinders.

#### 2.04 FINISHES

- A. Generally to be satin chrome US26D (626 on bronze and 652 on steel) unless otherwise noted.
- B. Furnish push plates, pull plates and kick or armor plates in satin stainless steel US32D (630) unless otherwise noted.
- C. Door closers shall be powder-coated to match other hardware, unless otherwise noted.
- D. Aluminum items to be finished anodized aluminum except thresholds which can be furnished as standard mill finish.

#### 2.05 FASTENERS

- A. Screws for strikes, face plates and similar items shall be flat head, countersunk type, provide machine screws for metal and standard wood screws for wood.
- B. Screws for butt hinges shall be flathead, countersunk, full-thread type.
- C. Fastening of closer bases or closer shoes to doors shall be by means of sex bolts and spray painted to match closer finish.
- D. Provide expansion anchors for attaching hardware items to concrete or masonry.
- E. All exposed fasteners shall have a phillips head.
- F. Finish of exposed screws to match surface finish of hardware or other adjacent work.
- G. All Exit Devices and Lock Protectors shall be fastened to the door by the means of sex bolts or through bolts.

### **PART 3 - EXECUTION**

#### 3.01 INSPECTION

- A. Verify that doors and frames are square and plumb and ready to receive work and dimensions are as instructed by the manufacturer.
- B. Beginning of installation means acceptance of existing conditions.

#### 3.02 INSTALLATION

- A. Install hardware in accordance with manufacturer's instructions and requirements of DHI.
- B. Use the templates provided by hardware item manufacturer.
- C. Mounting heights for hardware shall be as recommended by the Door and Hardware Institute. Operating hardware will to be located between 34" and 44" AFF.
- D. Set units level, plumb and true to line and location. Adjust and reinforce the attachment substrate as necessary for proper installation and operation.
- E. Drill and countersink units that are not factory-prepared for anchorage fasteners. Space fasteners and anchors in accordance with industry standards.
- F. Set thresholds for exterior doors in full bed of butyl-rubber sealant.
- G. If hand of door is changed during construction, make necessary changes in hardware at no additional cost.
- H. Hardware Installer shall coordinate with security contractor to route cable to connect electrified locks, panic hardware and fire exit hardware to power transfers or electric hinges at the time these items are installed so as to avoid disassembly and reinstallation of hardware.
- I. Hardware Installer shall also be present with the security contractor when the power is turned on for the testing of the electronic hardware applications. Installer shall make adjustments to solenoids, latches, vertical rods and closers to insure proper and secure operation.
- J. All wiring for electro-mechanical hardware mounted on the door shall be connected through the power transfer and terminated in the interface junction box specified for in the Electrical Section.
- K. Conductors shall be minimum 18 gage stranded, multicolored. A minimum 12 in. loop of conductors shall be coiled in the interface junction box. Each conductor shall be permanently marked with its function.
- L. If a power supply is specified in the hardware sets, all conductors shall be terminated in the power supply. Make all connections required for proper operation between the power supply and the electro-mechanical hardware. Provide the proper size conductors as specified in the manufacturer's technical documentation.

### 3.03 ADJUST AND CLEAN

- A. Adjust and check each operating item of hardware and each door, to ensure proper operation or function of every unit. Replace units which cannot be adjusted to operate freely and smoothly as intended for the application made.
- B. Clean adjacent surface soiled by hardware installation.
- C. Final Adjustment: Wherever hardware installation is made more than one month prior to acceptance or occupancy, return to that work area and make final check and adjustment of all hardware items in such space or area. Clean operating items as necessary to restore proper



- function and finish of hardware and doors. Adjust door control devices to compensate for final operation of heating and ventilating equipment.
- D. Instruct Owner's Personnel in proper adjustment and maintenance of hardware finishes, during the final adjustment of hardware.
  - E. Continued Maintenance Service: Approximately six months after the completion of the project, the Contractor accompanied by the Architectural Hardware Consultant, shall return to the project and re-adjust every item of hardware to restore proper functions of doors and hardware. Consult with and instruct Owner's personnel in recommended additions to the maintenance procedures. Replace hardware items which have deteriorated or failed due to faulty design, materials or installation of hardware units. Prepare a written report of current and predictable problems (of substantial nature) in the performance of the hardware.

### 3.04 HARDWARE LOCATIONS

- A. Conform to CCR, Title 24, Part 2; and ADAAG; and the drawings for access-compliant positioning requirements for the disabled.

### 3.05 FIELD QUALITY CONTROL

- A. Contractor is responsible for providing the services of an Architectural Hardware Consultant (AHC) or a proprietary product technician to inspect installation and certify that hardware and its installation have been furnished and installed in accordance with manufacturers' instructions and as specified herein.

### 3.06 SCHEDULE

- A. The items listed in the following schedule shall conform to the requirements of the foregoing specifications.
- B. While the hardware schedule is intended to cover all doors, and other movable parts of the building, and establish type and standard of quality, the contractor is responsible for examining the Plans and Specifications and furnishing proper hardware for all openings whether listed or not. If there are any omissions in hardware groups in regard to regular doors they shall be called to the attention of the Architect prior to bid opening for instruction; otherwise, list will be considered Complete. No extras will be allowed for omissions.
- C. The Door Schedule on the Drawings indicates which hardware set is used with each door.

#### **Manufacturers Abbreviations (Mfr.)**

ADA	=	Adams Rite Mfg.	Aluminum Door Hardware
GLY	=	Glynn-Johnson Corporation	Overhead Door Stops
IVE	=	Ives	Hinges, Pivots, Bolts, Coordinators, Dust Proof Strikes, Push Pull & Kick Plates, Door Stops & Silencers
JOH	=	L.E. Johnson	Sliding Door Hardware
LCN	=	LCN	Door Closers
SCE	=	Schlage Electronics	Electronic Door Components

SCH	=	Schlage Lock Company	Locks, Latches & Cylinders
TRI	=	Trimco	Signs
VON	=	Von Duprin	Exit Devices
ZER	=	Zero International	Thresholds, Gasketing & Weather-stripping

**HARDWARE GROUP NO. 01 - EXTERIOR STAFF PRIVACY OUTSWING KP**

For use on Door #(s):

C109                      D107

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 NRP	630	IVE
1	EA	FACULTY RESTROOM	L9485R 06N L583-363 L283-722	626	SCH
1	EA	PRIMUS CORE	20-740-XP	626	SCH
1	EA	LOCK GUARD	LG10	630	IVE
1	EA	SURFACE CLOSER	4040XP EDA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	FLOOR STOP	FS18S	BLK	IVE
1	EA	GASKETING	188SBK PSA	BK	ZER
1	EA	DOOR SWEEP	39A	A	ZER
1	EA	THRESHOLD	PER DETAIL	AL	ZER

**HARDWARE GROUP NO. 02 - EXTERIOR CLASSROOM SEC INSWING KP**

For use on Door #(s):

C107                      C108                      D105                      D106

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5	630	IVE
1	EA	VANDL CLASSROOM SEC	ND95RD RHO XN12-035	626	SCH
2	EA	PRIMUS CORE	20-740-XP	626	SCH
1	EA	SURFACE CLOSER	4040XP	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CVX	630	IVE
1	EA	GASKETING	188SBK PSA	BK	ZER
1	EA	DOOR SWEEP	253A	A	ZER
1	EA	THRESHOLD	PER DETAIL	AL	ZER

**HARDWARE GROUP NO. 03 - EXTERIOR STOREFRONT CLASSROOM SEC OUTSWING**

For use on Door #(s):

B105

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 NRP	630	IVE
1	EA	VANDL CLASSROOM SEC	ND95RD RHO XN12-035	626	SCH
2	EA	PRIMUS CORE	20-740-XP	626	SCH
1	EA	LOCK GUARD	LG10	630	IVE
1	EA	SURFACE CLOSER	4040XP EDA	689	LCN
1	EA	FLOOR STOP	FS18S	BLK	IVE
1	EA	THRESHOLD	PER DETAIL	AL	ZER
1			WEATHERSTRIP BY DOOR/FRAME MANUFACTURER		

**HARDWARE GROUP NO. 03A - EXTERIOR STOREFRONT PANIC DOGGING**

For use on Door #(s):

A108A            C102C            C104A            C104B

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 NRP	630	IVE
1	EA	PANIC HARDWARE	CDSI-PA-AX-99-NL	626	VON
1	EA	RIM CYLINDER	20-057 ICX	626	SCH
2	EA	PRIMUS CORE	20-740-XP	626	SCH
1	EA	MORTISE CYLINDER	26-091 ICX XQ11-948	626	SCH
1	EA	SURFACE CLOSER	4040XP EDA	689	LCN
1	EA	FLOOR STOP	FS18S	BLK	IVE
1	EA	THRESHOLD	PER DETAIL	AL	ZER
1			WEATHERSTRIP BY DOOR/FRAME MANUFACTURER		

**HARDWARE GROUP NO. 04 - EXTERIOR STOREFRONT CLASSROOM SEC OUTSWING OHS**

For use on Door #(s):

B110                      C101                      C105A

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 NRP	630	IVE
1	EA	VANDL CLASSROOM SEC	ND95RD RHO XN12-035	626	SCH
2	EA	PRIMUS CORE	20-740-XP	626	SCH
1	EA	LOCK GUARD	LG10	630	IVE
1	EA	OH STOP	100S	630	GLY
1	EA	SURFACE CLOSER	4040XP EDA	689	LCN
1	EA	THRESHOLD	PER DETAIL	AL	ZER
1			WEATHERSTRIP BY DOOR/FRAME MANUFACTURER		

**HARDWARE GROUP NO. 05 - EXTERIOR STOREFRONT OFFICE OUTSWING OHS**

For use on Door #(s):

A102A

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 NRP	630	IVE
1	EA	VANDL OFFICE LOCK	ND91RD RHO	626	SCH
1	EA	PRIMUS CORE	20-740-XP	626	SCH
1	EA	LOCK GUARD	LG10	630	IVE
1	EA	OH STOP	100S	630	GLY
1	EA	SURFACE CLOSER	4040XP EDA	689	LCN
1	EA	THRESHOLD	PER DETAIL	AL	ZER
1			WEATHERSTRIP BY DOOR/FRAME MANUFACTURER		

**HARDWARE GROUP NO. 06 - EXTERIOR STORAGE OUTSWING KP**

For use on Door #(s):

A118                      B106                      C114                      C115                      D109                      D111  
 D114

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 NRP	630	IVE
1	EA	VANDL STOREROOM LOCK	ND96RD RHO	626	SCH
1	EA	PRIMUS CORE	20-740-XP	626	SCH
1	EA	LOCK GUARD	LG10	630	IVE
1	EA	SURFACE CLOSER	4040XP EDA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	FLOOR STOP	FS18S	BLK	IVE
1	EA	GASKETING	188SBK PSA	BK	ZER
1	EA	DOOR SWEEP	39A	A	ZER
1	EA	THRESHOLD	PER DETAIL	AL	ZER

**HARDWARE GROUP NO. 07 - EXTERIOR STORAGE OUTSWING KP OHS**

For use on Door #(s):

A119                      B107                      C117                      D108                      D110

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 NRP	630	IVE
1	EA	VANDL STOREROOM LOCK	ND96RD RHO	626	SCH
1	EA	PRIMUS CORE	20-740-XP	626	SCH
1	EA	LOCK GUARD	LG10	630	IVE
1	EA	OH STOP	100S	630	GLY
1	EA	SURFACE CLOSER	4040XP EDA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	GASKETING	188SBK PSA	BK	ZER
1	EA	DOOR SWEEP	39A	A	ZER
1	EA	THRESHOLD	PER DETAIL	AL	ZER

**HARDWARE GROUP NO. 08 - EXTERIOR PAIR STOREFRONT CLASSROOM SEC  
OUTSWING**

For use on Door #(s):

B101	B102	B103	B104	B108	C110
C112	D101	D102	D103	D104	

Provide each PR door(s) with the following:

QTY	EA	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
6	EA	HINGE	5BB1 4.5 X 4.5 NRP	630	IVE
1	SET	AUTO FLUSH BOLT	FB31P	630	IVE
1	EA	DUST PROOF STRIKE	DP1	626	IVE
1	EA	VANDL CLASSROOM SEC	ND95RD RHO XN12-035	626	SCH
2	EA	PRIMUS CORE	20-740-XP	626	SCH
1	EA	COORDINATOR	COR X FL	628	IVE
2	EA	MOUNTING BRACKET	MB	689	IVE
2	EA	SURFACE CLOSER	4040XP EDA	689	LCN
2	EA	FLOOR STOP	FS18S	BLK	IVE
1	EA	ASTRAGAL	43STST	STST	ZER
1	EA	THRESHOLD	PER DETAIL	AL	ZER
1			WEATHERSTRIP BY DOOR/FRAME MANUFACTURER		

**HARDWARE GROUP NO. 08A - EXTERIOR PAIR STOREFRONT PANIC DOGGING**

For use on Door #(s):

A100A	A100B	C102A	C102B
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Provide each PR door(s) with the following:

QTY	EA	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
6	EA	HINGE	5BB1 4.5 X 4.5 NRP	630	IVE
1	EA	REMOVABLE MULLION	KR4954 STAB	689	VON
1	EA	PANIC HARDWARE	CDSI-PA-AX-99-DT	626	VON
1	EA	PANIC HARDWARE	CDSI-PA-AX-99-NL	626	VON
1	EA	RIM CYLINDER	20-057 ICX	626	SCH
4	EA	PRIMUS CORE	20-740-XP	626	SCH
1	EA	MORTISE CYLINDER	26-091 ICX	626	SCH
2	EA	MORTISE CYLINDER	26-091 ICX XQ11-948	626	SCH
2	EA	SURFACE CLOSER	4040XP EDA	689	LCN
2	EA	FLOOR STOP	FS18S	BLK	IVE
1	EA	THRESHOLD	PER DETAIL	AL	ZER
1			WEATHERSTRIP BY DOOR/FRAME MANUFACTURER		

**HARDWARE GROUP NO. 09 - EXTERIOR PAIR STORAGE OUTSWING KP**

For use on Door #(s):

B109

Provide each PR door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
6	EA	HINGE	5BB1 4.5 X 4.5 NRP	630	IVE
1	SET	AUTO FLUSH BOLT	FB31P	630	IVE
1	EA	DUST PROOF STRIKE	DP2	626	IVE
1	EA	VANDL STOREROOM LOCK	ND96RD RHO	626	SCH
1	EA	PRIMUS CORE	20-740-XP	626	SCH
1	EA	COORDINATOR	COR X FL	628	IVE
2	EA	MOUNTING BRACKET	MB	689	IVE
2	EA	SURFACE CLOSER	4040XP EDA	689	LCN
2	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
2	EA	FLOOR STOP	FS18S	BLK	IVE
1	EA	GASKETING	188SBK PSA	BK	ZER
2	EA	DOOR SWEEP	39A	A	ZER
1	EA	ASTRAGAL	43STST	STST	ZER
1	EA	THRESHOLD	PER DETAIL	AL	ZER

**HARDWARE GROUP NO. 10 - INTERIOR OFFICE KP**

For use on Door #(s):

A102B      A103B      A108C      A109      A110      A113  
 A114      A115      A116

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	ENTRANCE/OFFICE LOCK	ND50RD RHO	626	SCH
1	EA	PRIMUS CORE	20-740-XP	626	SCH
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CVX	630	IVE
1	EA	GASKETING	488SBK PSA	BK	ZER

**HARDWARE GROUP NO. 11 - INTERIOR OFFICE KP OHS**

For use on Door #(s):

A103A

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	ENTRANCE/OFFICE LOCK	ND50RD RHO	626	SCH
1	EA	PRIMUS CORE	20-740-XP	626	SCH
1	EA	OH STOP	100S	630	GLY
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	GASKETING	488SBK PSA	BK	ZER

**HARDWARE GROUP NO. 12 - INTERIOR STORAGE INSWING KP**

For use on Door #(s):

A105

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	STOREROOM LOCK	ND80RD RHO	626	SCH
1	EA	PRIMUS CORE	20-740-XP	626	SCH
1	EA	SURFACE CLOSER	4040XP	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CVX	630	IVE
1	EA	GASKETING	488SBK PSA	BK	ZER

**HARDWARE GROUP NO. 13 - INTERIOR STORAGE OUTSWING KP**

For use on Door #(s):

A107	B111	B113A	B113B	B115A	B115B
C106	C113A	C113B	C116	D115	

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	STOREROOM LOCK	ND80RD RHO	626	SCH
1	EA	PRIMUS CORE	20-740-XP	626	SCH
1	EA	SURFACE CLOSER	4040XP EDA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CVX	630	IVE
1	EA	GASKETING	488SBK PSA	BK	ZER



**HARDWARE GROUP NO. 14 - INTERIOR PRIVACY INSWING KP**

For use on Door #(s):

A106                      A110

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	PRIVACY W/ INDICATOR	L9456R 06N L583-363 L283-722	626	SCH
1	EA	PRIMUS CORE	20-740-XP	626	SCH
1	EA	SURFACE CLOSER	4040XP	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CVX	630	IVE
1	EA	GASKETING	488SBK PSA	BK	ZER

**HARDWARE GROUP NO. 14A - INTERIOR STAFF PRIVACY INSWING KP**

For use on Door #(s):

A111                      A112

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	FACULTY RESTROOM	L9485R 06N L583-363 L283-722	626	SCH
1	EA	PRIMUS CORE	20-740-XP	626	SCH
1	EA	SURFACE CLOSER	4040XP	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CVX	630	IVE
1	EA	GASKETING	488SBK PSA	BK	ZER

**HARDWARE GROUP NO. 15 - INTERIOR CLASSROOM SEC KP**

For use on Door #(s):

B112A            B112B            B114A            B114B            C111A            C111B  
 D112A            D112B            D113A            D113B

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	CLASSROOM SECURITY	ND75RD RHO XN12-035	626	SCH
2	EA	PRIMUS CORE	20-740-XP	626	SCH
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CVX	630	IVE
1	EA	GASKETING	488SBK PSA	BK	ZER

**HARDWARE GROUP NO. 16 - INTERIOR DBL CYL OHS KP**

For use on Door #(s):  
 C104C

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	DBL CYL STORE LOCK	ND66RD RHO	626	SCH
2	EA	PRIMUS CORE	20-740-XP	626	SCH
1	EA	OH STOP	100S	630	GLY
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	GASKETING	488SBK PSA	BK	ZER

**HARDWARE GROUP NO. 17 - INTERIOR PAIR CLASSROOM SEC OUTSWING**

For use on Door #(s):  
 C105C

Provide each PR door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
6	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	SET	AUTO FLUSH BOLT	FB41P	630	IVE
1	EA	DUST PROOF STRIKE	DP1	626	IVE
1	EA	CLASSROOM SECURITY	ND75RD RHO XN12-035	626	SCH
2	EA	PRIMUS CORE	20-740-XP	626	SCH
1	EA	COORDINATOR	COR X FL	628	IVE
2	EA	MOUNTING BRACKET	MB	689	IVE
2	EA	SURFACE CLOSER	4040XP EDA	689	LCN
2	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
2	EA	WALL STOP	WS406/407CVX	630	IVE
1	EA	GASKETING	488SBK PSA	BK	ZER
1	EA	ASTRAGAL	43STST	STST	ZER

**HARDWARE GROUP NO. 18 - NANAWALL**

For use on Door #(s):  
 C102D

Provide each RU door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1			HARDWARE BY NANA WALL		

**HARDWARE GROUP NO. 19 - ROLL UP**

For use on Door #(s):


C105B

Provide each RU door(s) with the following:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1		HARDWARE BY ROLL UP DOOR MANUFACTURER		

**END OF SECTION**

# REQUEST FOR INFORMATION (PB)

PROJECT NAME: <b>MLK Nevada Campus Reconstruction Project</b> Increment #2 & 3		JOB NO. 226
		Pre Bid RFI NO. <b>015</b>
TO: Kevin Marer  <b>JK Architecture Engineering.</b> <b>300 Orchard City Drive, Suite 140</b> <b>Campbell, CA 95008</b>  <b>CC: Jason Cave</b>  <b>Greystone West Company</b>	FROM:  <b>BHM Construction, Inc.</b> <b>221 Gateway Road W, Ste.405,</b> <b>Napa, CA 94558</b>	
SUBJECT: Corner Guards		
CATEGORY: Corner Guards *NEED ADDITIONAL INFORMATION		
Spec Section: 10 26 13	PARAGRAPH NO.:	DRAWING NO:A6.1.2-2
DETAIL:		
DISCRIPTION:  The Corner Guards shown on sheet A6.1.2-2 shows on note 9 this is easy to figure for outside corner conditions, what about partial wall conditions where case work is enclosed but end of walls are exposed. See condition below.		
		
Please advise.		
<input type="checkbox"/> COST IMPACT: TBD \$ EST. <input type="checkbox"/> TIME IMPACT: _EST.TBD		
CONTRACTOR SIGNATURE:	DATE ISSUED: 3.27.24	DATE REQUIRED:03/29/24

RESPONSE:

Please provide corner guards at both outside corners of these wall conditions, or alternatively an end wall cap protector.

ATTACHMENTS:

ARCHITECT  
SIGNATURE:

*Kevin Moore*

DATE: 03/28/2024

# REQUEST FOR INFORMATION (PB)

PROJECT NAME: <b>MLK Nevada Campus Reconstruction Project</b> Increment #2 & 3		JOB NO. 226	
		Pre Bid RFI NO. <b>017</b>	
TO: Kevin Marer  <b>JK Architecture Engineering.</b> <b>300 Orchard City Drive, Suite 140</b> <b>Campbell, CA 95008</b>  <b>CC: Jason Cave</b>  <b>Greystone West Company</b>		FROM:  <b>BHM Construction, Inc.</b> <b>221 Gateway Road W, Ste.405,</b> <b>Napa, CA 94558</b>	
SUBJECT: Kitchen Appliances Inc 3			
CATEGORY: Food Service Equipment *NEED ADDITIONAL INFORMATION			
Spec Section: 11 40 00	PARAGRAPH NO.: Item 5, 13	DRAWING NO: FS9.1	DETAIL:
DISCRIPTION:  Item #5 is listed as a wall shelf in 11 40 00 specs. No wall shelf shown on plans. Please clarify Item #13 Has a 1" right rear manifold <u>with</u> pressure regulator as an accessory. Also has 1" pressure regulator listed. Do you want 2 regulators? Item #13 Has Model SHS-12 as accessory. This will only cover half of the range. Please verify this should be SHS-24  Please advise.  <b>Item #5 was deleted and turned to spare,</b>  <b>Item #13 Provide (1) ea regulator.</b>  <b>Item #13 Provide the Accessory SHS-24</b>  <b>AMD Foodservice Design Inc.</b> <b>Art Davis</b>			
<input type="checkbox"/> COST IMPACT: TBD \$ EST. <input type="checkbox"/> TIME IMPACT: _EST.TBD			
CONTRACTOR SIGNATURE:		DATE ISSUED: 3.28.24	DATE REQUIRED:04/01/24

RESPONSE:

ATTACHMENTS:

ARCHITECT  
SIGNATURE:

DATE:

# REQUEST FOR INFORMATION (PB)

PROJECT NAME: <b>MLK Nevada Campus Reconstruction Project</b> Increment #2 & 3		JOB NO. 226	
		Pre Bid RFI NO. <b>017.1</b>	
TO: Kevin Marer  <b>JK Architecture Engineering.</b> <b>300 Orchard City Drive, Suite 140</b> <b>Campbell, CA 95008</b>  <b>CC: Jason Cave</b>  <b>Greystone West Company</b>	FROM:  <b>BHM Construction, Inc.</b> <b>221 Gateway Road W, Ste.405,</b> <b>Napa, CA 94558</b>		
SUBJECT: Kitchen Appliances Inc 3			
CATEGORY: Food Service Equipment *NEED ADDITIONAL INFORMATION			
Spec Section: 11 40 00	PARAGRAPH NO.: Item 18	DRAWING NO: FS9.1	DETAIL:
DISCRIPTION:  Item #18 (Three Stack Utensil Drawer Unit) is this 1 each as shown on the plans or 2 each as shown in specification section 11 40 00. Please clarify  <b>Item #18 provide (1)ea. as shown on the plan</b>  <b>AMD Foodservice Inc.</b> <b>Art Davis</b> <b>3/30/2024</b>			
<input type="checkbox"/> COST IMPACT: TBD \$ EST. <input type="checkbox"/> TIME IMPACT: _EST.TBD			
CONTRACTOR SIGNATURE:		DATE ISSUED: 3.29.24	DATE REQUIRED:04/01/24



RESPONSE:

ATTACHMENTS:

ARCHITECT  
SIGNATURE:

DATE:

# REQUEST FOR INFORMATION (PB)

PROJECT NAME: <b>MLK Nevada Campus Reconstruction Project</b> Increment #2 & 3		JOB NO. 226	
		Pre Bid RFI NO. <b>019</b>	
TO: Kevin Marer  <b>JK Architecture Engineering.</b> <b>300 Orchard City Drive, Suite 140</b> <b>Campbell, CA 95008</b>  <b>CC: Jason Cave</b>  <b>Greystone West Company</b>	FROM:  <b>BHM Construction, Inc.</b> <b>221 Gateway Road W, Ste.405,</b> <b>Napa, CA 94558</b>		
SUBJECT: Metal Roof Coping Callouts			
CATEGORY: Metal Roof Panels *NEED ADDITIONAL INFORMATION			
Spec Section: 07 41 13	PARAGRAPH NO.:	DRAWING NO: A3.1.1-2 A3.1.2-2	DETAIL:
DISCRIPTION:  On the coping callouts on the elevations, the coping PC-1 are called out as 316 Stainless steel. The coping systems are not available in SS options only galvanized sheet metal or aluminum..  Please advise.			
<input type="checkbox"/> COST IMPACT: TBD \$ EST. <input type="checkbox"/> TIME IMPACT: _EST.TBD			
CONTRACTOR SIGNATURE:		DATE ISSUED: 3.29.24	DATE REQUIRED:04/01/24

RESPONSE:

Drawings have been updated to call out preformed GSM coping, and details 4 and 8/A5.7.2-2 have been updated to clarify galvanized as well.

ATTACHMENTS: A3.1.1-2, A3.1.2-2, and A5.7.2-2

ARCHITECT  
SIGNATURE:



DATE: 03/29/2024

UPDATES SHOWN IN THE ATTACHED SHEETS WILL ALSO BE INCLUDED IN V3 DOCUMENTS SUBMITTED TO DSA

**EXTERIOR FINISHES LEGEND**

**FIBER CEMENT SIDING - 07.46.46**

FC-1	MFG.: HARDIE PROD.: ARTISAN V-GROOVE COLOR: PAINTED, EP-13
FC-2	MFG.: HARDIE PROD.: HARDIE SOFFIT COLOR: TBD
PARAPET COPING - 07.62.00	
PC-1	PROD.: PREFORMED GSM COPING COLOR: MATCH AEP SPAN-LOK HP ZINC GRAY
METAL FASCIA TRIM - 07.62.00	
MF-1	MFG.: AEP PROD.: 24 GA. KYNAR PAINTED FLAT STOCK COLOR: MATCH AEP SPAN-LOK HP ZINC GRAY
STANDING SEAM METAL ROOFING - 07.41.13	
SSM-1	MFG.: AEP PROD.: SPAN-LOK HP COLOR: ZINC GRAY

**STOREFRONT - 08.41.13**

SF-1	MFG.: KAWNEER PROD.: TRIFAB VERSAGLAZE 461T COLOR: BRONZE ANODIZED
GLAZING - 08.81.00	
GL-1	MFG.: VITRO ARCHITECTURAL GLASS PROD.: SOLARBAN 90 COLOR: CLEAR
CEMENT PLASTER FINISH - 09.24.00	
CP-1	MFG.: LA HABRA PROD.: EXT. STUCCO COLOR COAT COLOR: X-16 SILVER GRAY FINISH: PAINTED, REFER TO ELEVATIONS
EXTERIOR PAINT - 09.91.00	
EP-1	MFR.: TBD PROD.: ACRYLIC SEMI-GLOSS ENAMEL COLOR: SW 7013 - IVORY LACE

**EXTERIOR PAINT - 09.91.00 (CONTINUED)**

EP-2	MFR.: TBD PROD.: ACRYLIC SEMI-GLOSS ENAMEL COLOR: SW6559 - SECURE BLUE
EP-3	MFR.: TBD PROD.: ACRYLIC SEMI-GLOSS ENAMEL COLOR: SW6507 - RESOLUTE BLUE
EP-4	MFR.: TBD PROD.: ACRYLIC SEMI-GLOSS ENAMEL COLOR: SW6674 - FRESHWATER
EP-5	MFR.: TBD PROD.: ACRYLIC SEMI-GLOSS ENAMEL COLOR: SW9066 - GENTLE AQUAMARINE
EP-6	MFR.: TBD PROD.: ACRYLIC SEMI-GLOSS ENAMEL COLOR: SW6718 - OVERT GREEN
EP-7	MFR.: TBD PROD.: ACRYLIC SEMI-GLOSS ENAMEL COLOR: SW6717 - LIME RICKEY

**EXTERIOR PAINT - 09.91.00 (CONTINUED)**

EP-8	MFR.: TBD PROD.: ACRYLIC SEMI-GLOSS ENAMEL COLOR: SW6438 - DILL
EP-9	MFR.: TBD PROD.: ACRYLIC SEMI-GLOSS ENAMEL COLOR: SW6437 - HAVEN
EP-10	MFR.: TBD PROD.: ACRYLIC SEMI-GLOSS ENAMEL COLOR: SW6683 - BEE
EP-11	MFR.: TBD PROD.: ACRYLIC SEMI-GLOSS ENAMEL COLOR: SW9211 - MAPLES YELLOW
EP-12	MFR.: TBD PROD.: ACRYLIC SEMI-GLOSS ENAMEL COLOR: URBANE BRONZE
EP-13	MFR.: TBD PROD.: ACRYLIC SEMI-GLOSS ENAMEL COLOR: SW 6109 - HOPSACK

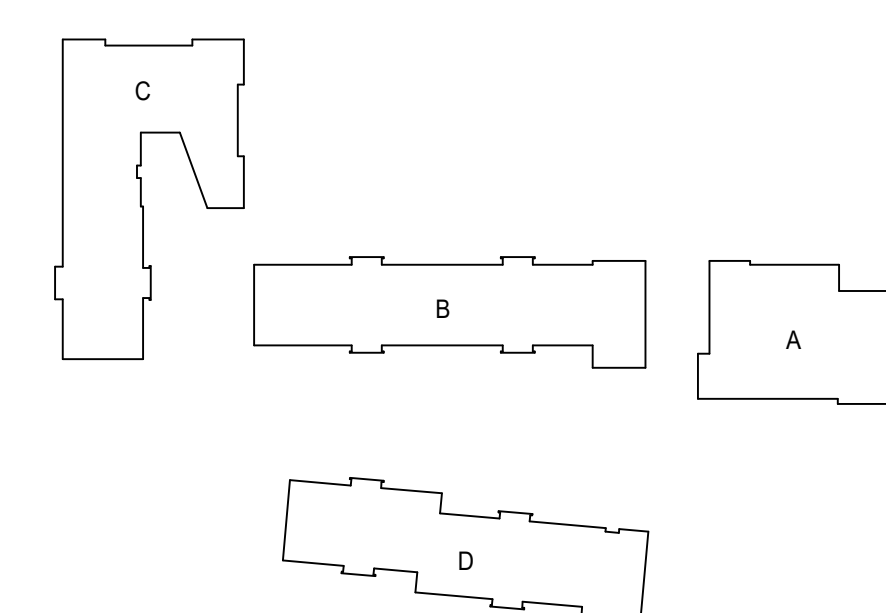
**KEYNOTES**

- 07.26 METAL GUTTER WITH GUTTER GUARD, PAINTED TO MATCH ROOF FLASHING - 07.62.00
- 08.18 21" DIA TUBULAR SKYLIGHTS - 08.62.23
- 08.19 METAL LOUVERS AND VENTS, S.M.D. - 08.90.00
- 10.11 12" TALL DIMENSIONAL LETTER SIGNAGE - 10.14.19
- 10.34 BUILDING IDENTIFICATION SIGNAGE, TO COMPLY WITH SFPD FIRE PROTECTION STANDARD 205 - PREMISES IDENTIFICATION, 9" TALL AND 1-1/4" STROKE WIDTH MINIMUM.
- 26.08 LINEAR LED SIGNAGE LIGHTING

**EXTERIOR ELEVATION GENERAL NOTES**

- 1. FOR WALL-MOUNTED LIGHT FIXTURES, SEE ELECTRICAL FOR MOUNTING HEIGHT.
- 2. ALL EXTERIOR CMU TO BE COATED WITH PROSECO BLOK-GUARD & GRAFFITI CONTROL ULTRA (BASIS OF DESIGN)
- 3. ALL EXTERIOR CMU PARAPET WALLS TO HAVE PREFINISHED METAL COPING

**KEY PLAN**



DSA APP. NO. 01-121006

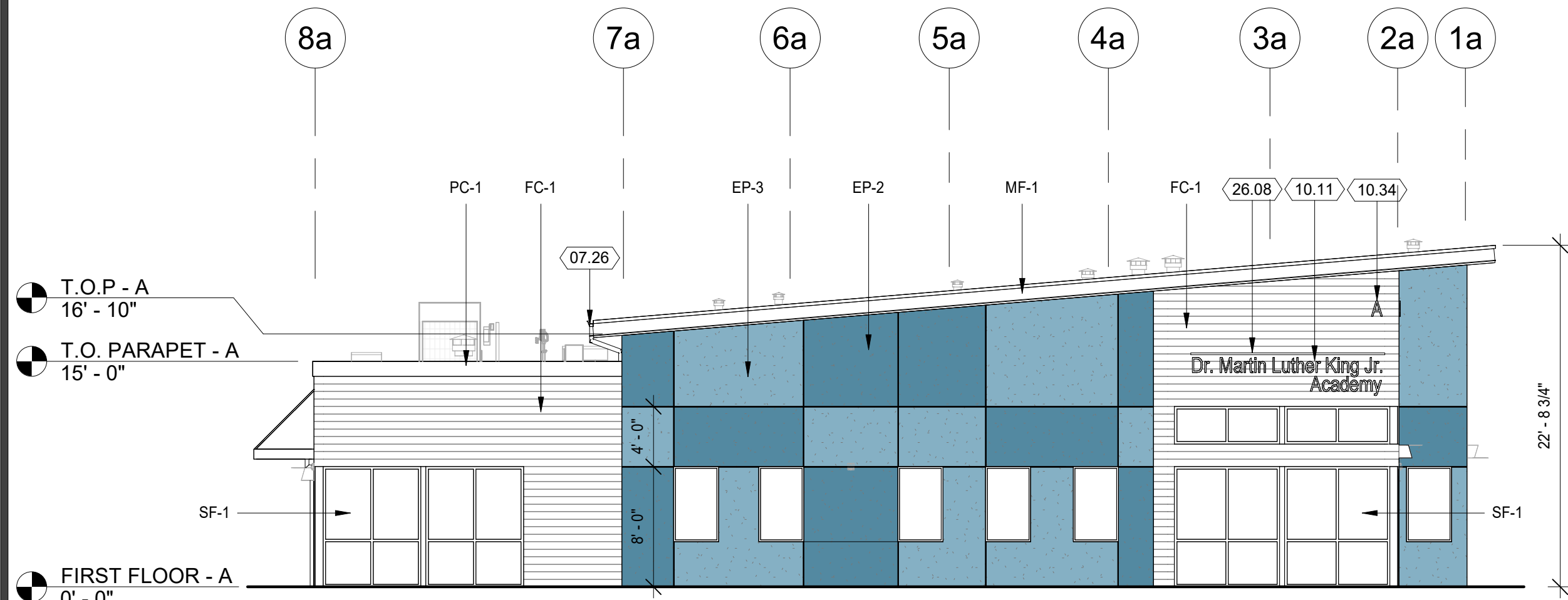
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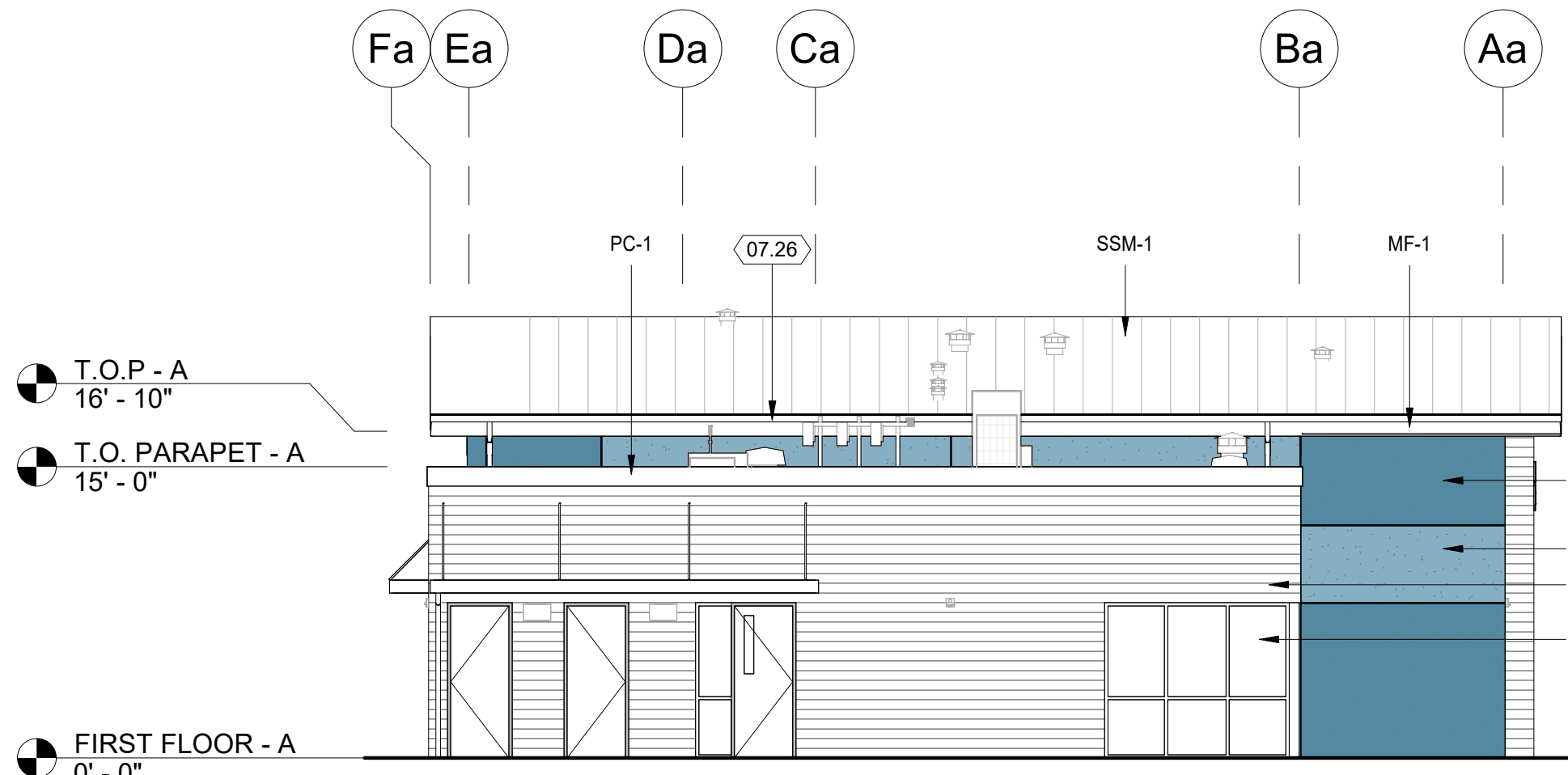
100% CONSTRUCTION DOCUMENTS

NO.	DATE	ISSUE

3.A3.1.1-2



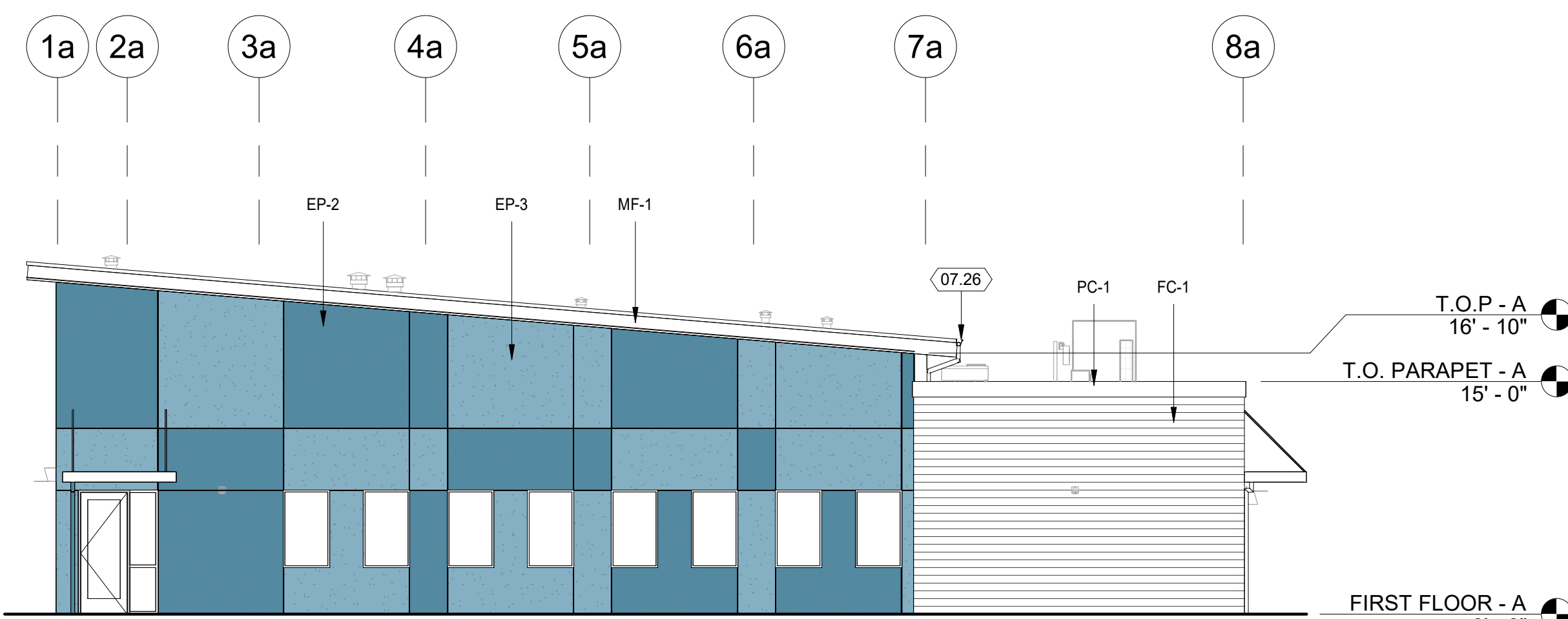
1 EXTERIOR ELEVATION - NORTH - BLDG A  
1/8" = 1'-0"



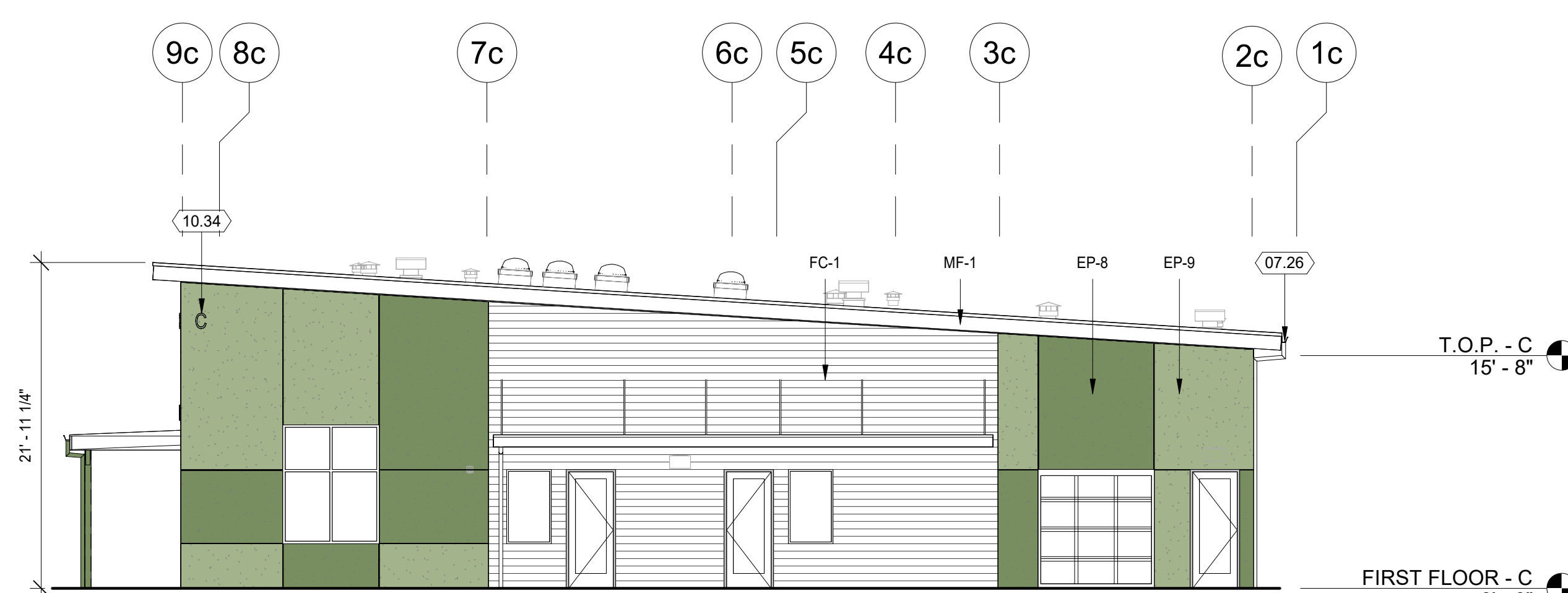
2 EXTERIOR ELEVATION - EAST - BLDG A  
1/8" = 1'-0"



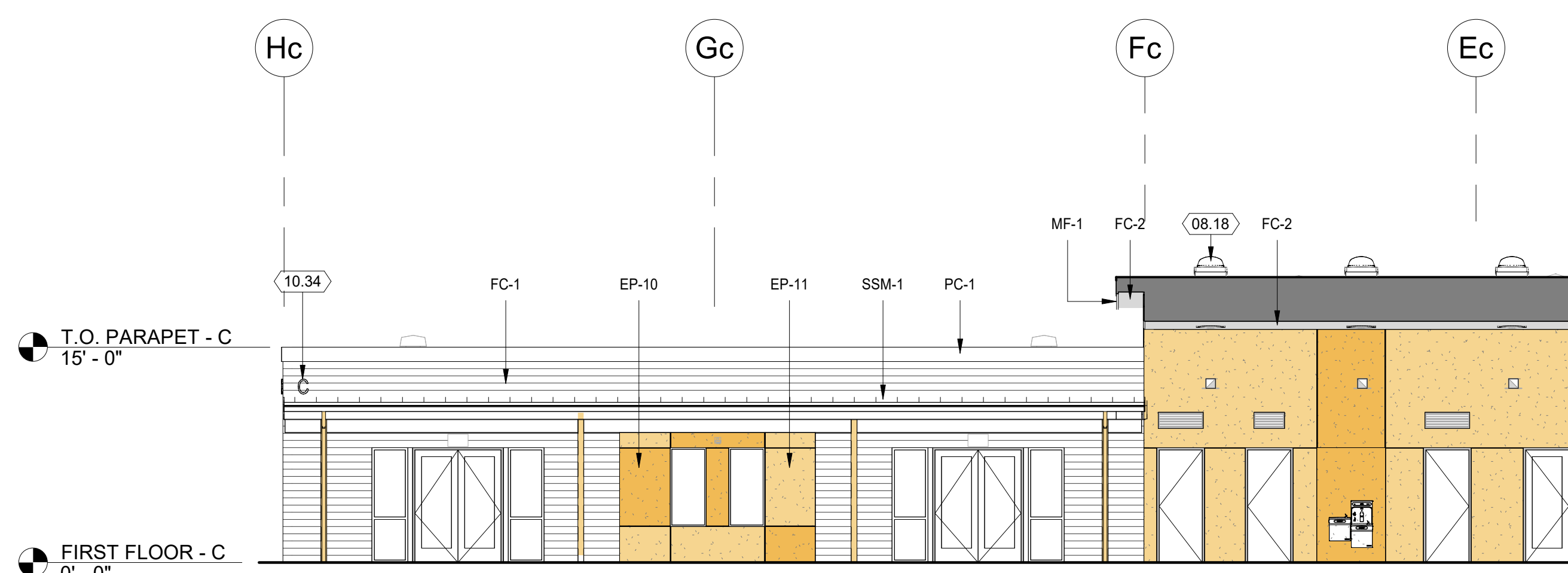
4 EXTERIOR ELEVATION - WEST - BLDG A  
1/8" = 1'-0"



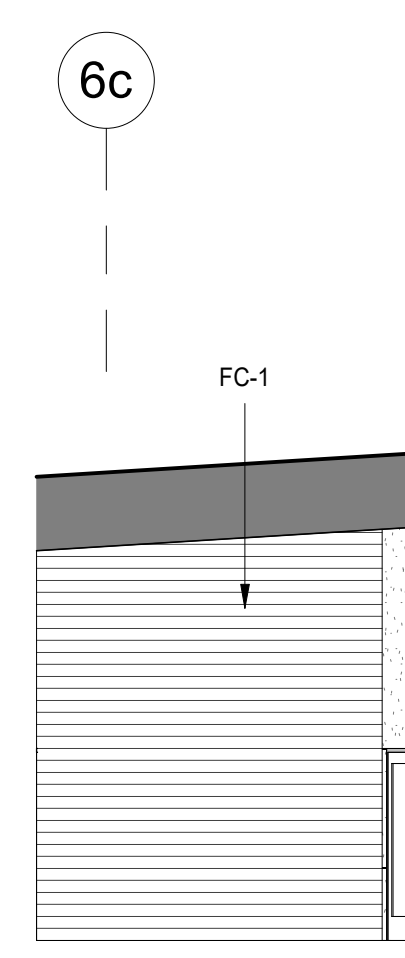
3 EXTERIOR ELEVATION - SOUTH - BLDG A  
1/8" = 1'-0"



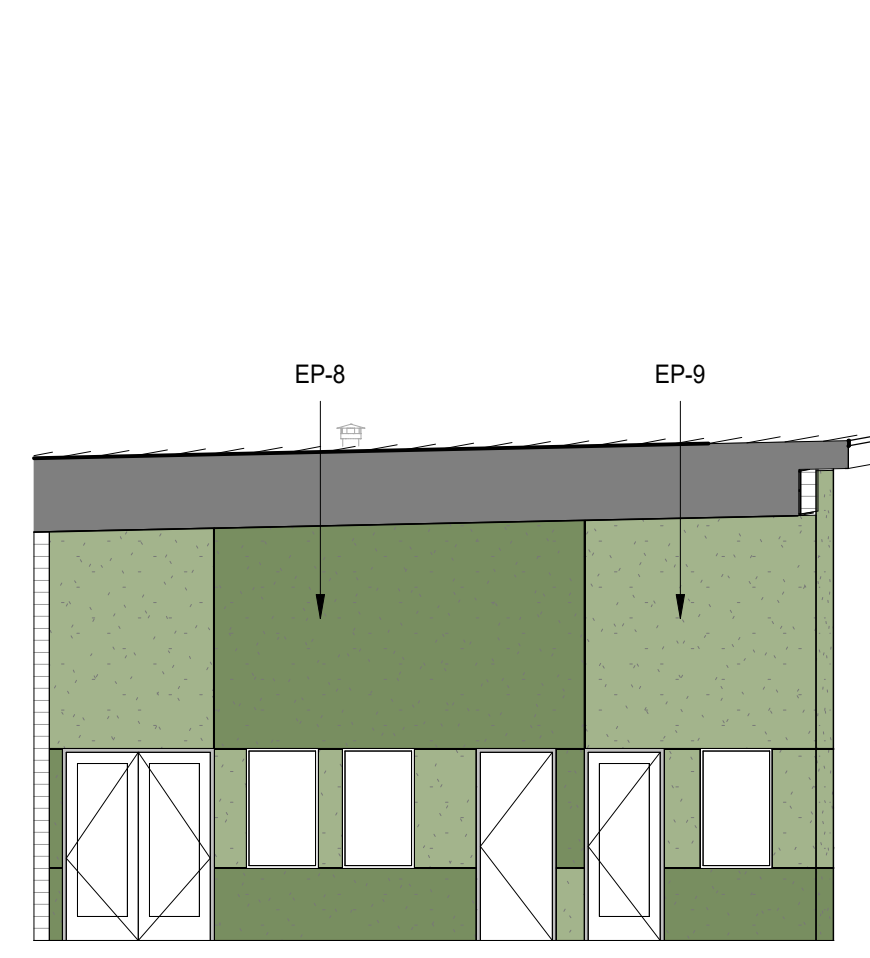
8 EXTERIOR ELEVATION - NORTH - BLDG C  
1/8" = 1'-0"



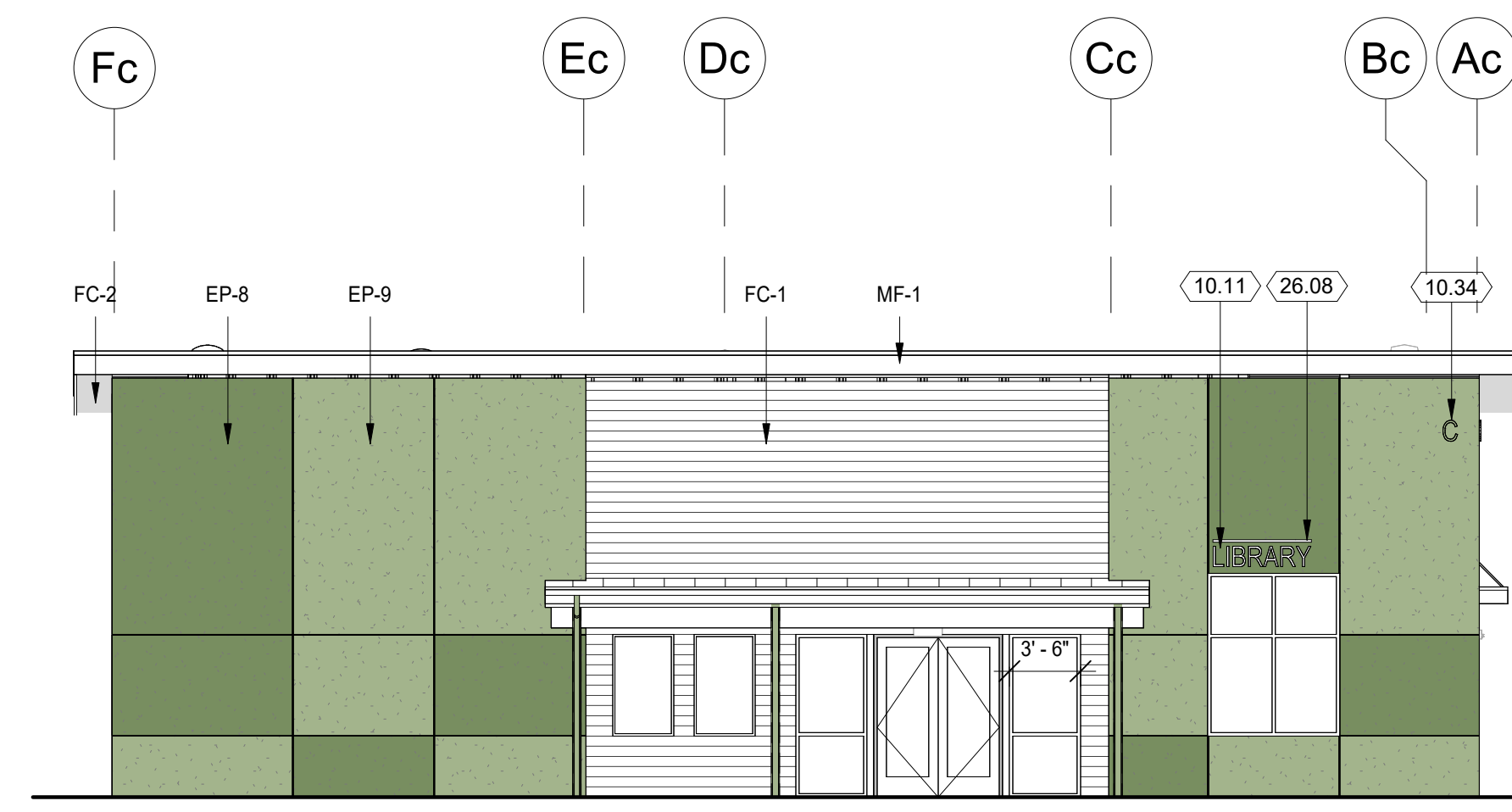
9 EXTERIOR ELEVATION - EAST BLDG C  
1/8" = 1'-0"



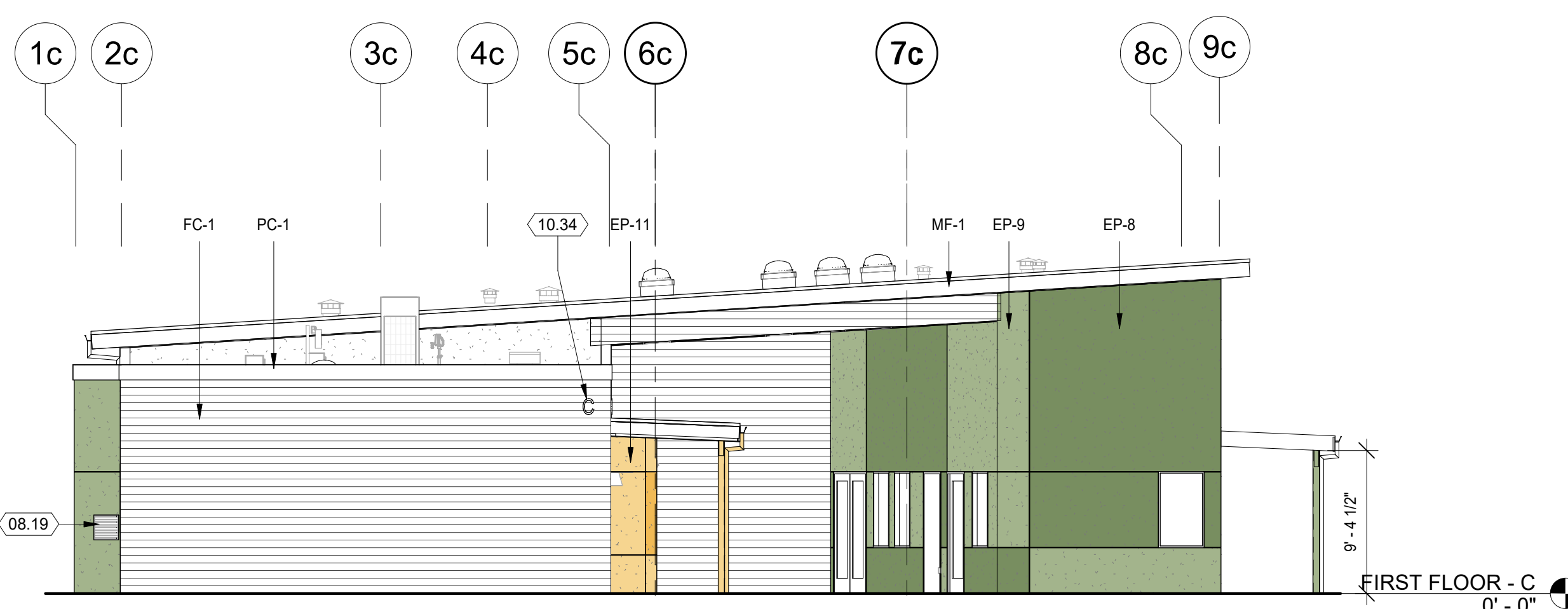
11 EXTERIOR ELEVATION - COURTYARD - SOUTH  
1/8" = 1'-0"



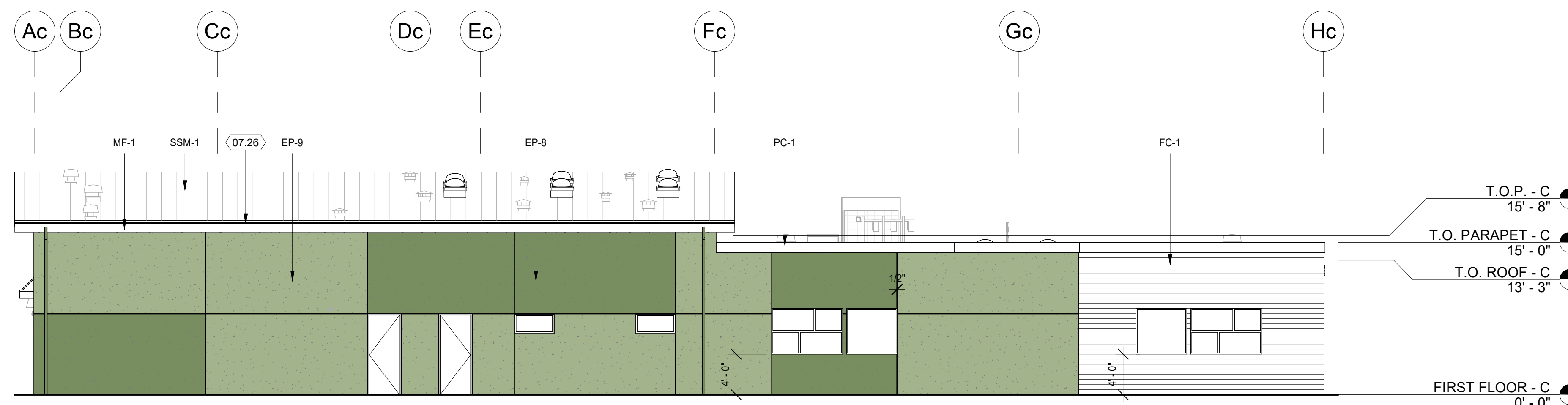
10 EXTERIOR ELEV - COURTYARD - EAST  
1/8" = 1'-0"



7 EXTERIOR ELEVATION - EAST - BLDG C  
1/8" = 1'-0"



6 C - OVERALL - EE-N - SOUTH  
1/8" = 1'-0"



5 EXTERIOR ELEVATION - WEST - BLDG C  
1/8" = 1'-0"

**EXTERIOR FINISHES LEGEND**

**FIBER CEMENT SIDING - 07.46.00**

FC-1	MFG.:	HARDIE
	PROD.:	ARTISAN V-GROOVE
	COLOR:	PAINTED, EP-13
FC-2	MFG.:	HARDIE
	PROD.:	HARDIE SOFFIT
	COLOR:	TBD
<b>PARAPET COPING - 07.62.00</b>		
PC-1	PROD.:	PREFORMED GSM COPING
	COLOR:	MATCH AEP SPAN-LOK HP ZINC GRAY
<b>METAL FASCIA TRIM - 07.62.00</b>		
MF-1	MFG.:	AEP
	PROD.:	24 GA. KYNAR PAINTED FLAT STOCK
	COLOR:	MATCH AEP SPAN-LOK HP ZINC GRAY
<b>STANDING SEAM METAL ROOFING - 07.41.13</b>		
SSM-1	MFG.:	AEP
	PROD.:	SPAN-LOK HP
	COLOR:	ZINC GRAY

**STOREFRONT - 08.41.13**

SF-1	MFG.:	KAWNEER
	PROD.:	TRIFAB VERSAGLAZE 451T
	COLOR:	BRONZE ANODIZED
<b>GLAZING - 08.81.00</b>		
GL-1	MFG.:	VITRO ARCHITECTURAL GLASS
	PROD.:	SOLARBAN 90
	COLOR:	CLEAR
<b>CEMENT PLASTER FINISH - 09.24.00</b>		
CP-1	MFG.:	LA HABRA
	PROD.:	EXT. STUCCO COLOR COAT
	COLOR:	2-16 SILVER GRAY
	FINISH:	PAINTED, REFER TO ELEVATIONS
<b>EXTERIOR PAINT - 09.91.00</b>		
EP-1	MFR.:	TBD
	PROD.:	ACRYLIC SEMIGLOSS ENAMEL
	COLOR:	SW 7013 - IVORY LACE

**EXTERIOR PAINT - 09.91.00 (CONTINUED)**

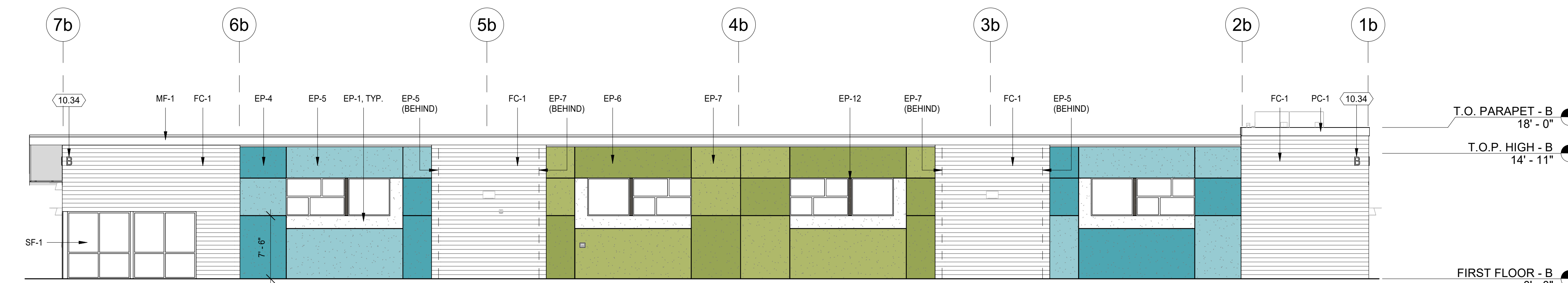
EP-2	MFR.:	TBD
	PROD.:	ACRYLIC SEMIGLOSS ENAMEL
	COLOR:	SW6509 - SECURE BLUE
EP-3	MFR.:	TBD
	PROD.:	ACRYLIC SEMIGLOSS ENAMEL
	COLOR:	SW6507 - RESOLUTE BLUE
EP-4	MFR.:	TBD
	PROD.:	ACRYLIC SEMIGLOSS ENAMEL
	COLOR:	SW6674 - FRESHWATER
EP-5	MFR.:	TBD
	PROD.:	ACRYLIC SEMIGLOSS ENAMEL
	COLOR:	SW6046 - GENTLE AQUAMARINE
EP-6	MFR.:	TBD
	PROD.:	ACRYLIC SEMIGLOSS ENAMEL
	COLOR:	SW6719 - OVERT GREEN
EP-7	MFR.:	TBD
	PROD.:	ACRYLIC SEMIGLOSS ENAMEL
	COLOR:	SW6717 - LIME RICKETY

**EXTERIOR PAINT - 09.91.00 (CONTINUED)**

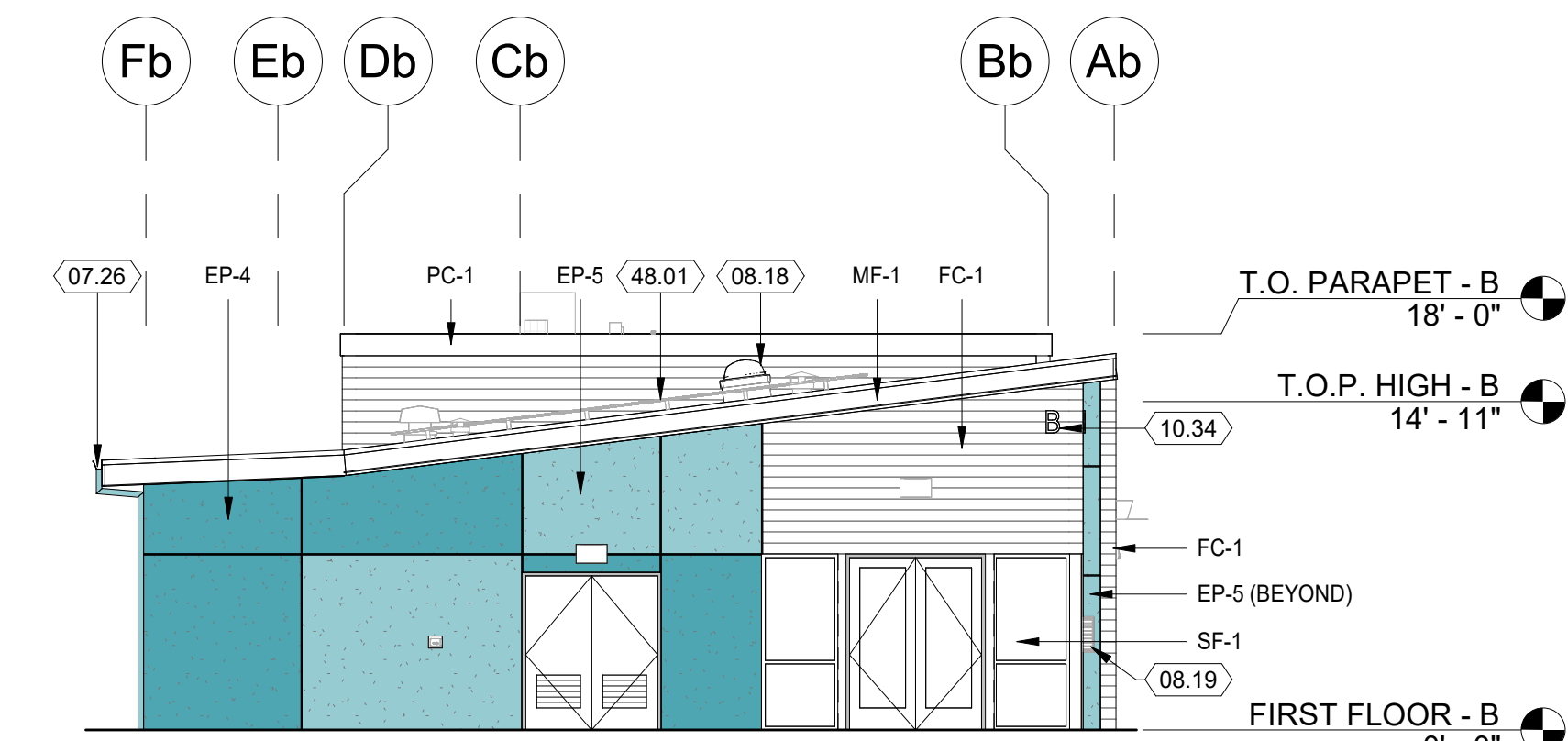
EP-8	MFR.:	TBD
	PROD.:	ACRYLIC SEMIGLOSS ENAMEL
	COLOR:	SW6438 - DILL
EP-9	MFR.:	TBD
	PROD.:	ACRYLIC SEMIGLOSS ENAMEL
	COLOR:	SW6437 - HAVEN
EP-10	MFR.:	TBD
	PROD.:	ACRYLIC SEMIGLOSS ENAMEL
	COLOR:	SW6683 - BEE
EP-11	MFR.:	TBD
	PROD.:	ACRYLIC SEMIGLOSS ENAMEL
	COLOR:	SW9221 - NAPLES YELLOW
EP-12	MFR.:	TBD
	PROD.:	ACRYLIC SEMIGLOSS ENAMEL
	COLOR:	URBANE BRONZE
EP-13	MFR.:	TBD
	PROD.:	ACRYLIC SEMIGLOSS ENAMEL
	COLOR:	SW 6109 - HOPSACK

**KEYNOTES**

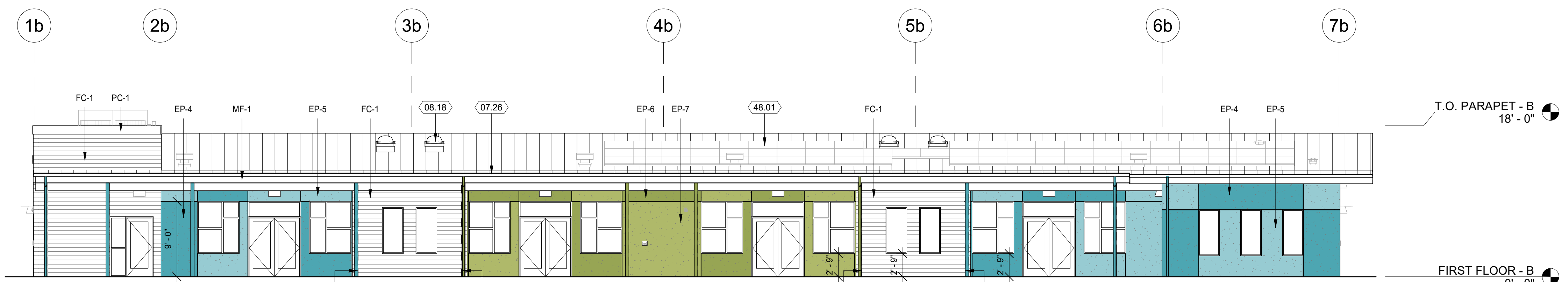
- 07.26 METAL GUTTER WITH GUTTER GUARD, PAINTED TO MATCH ROOF FLASHING - 07.62.00
- 08.18 21" DIA TUBULAR SKYLIGHTS - 08.62.23
- 08.19 METAL LOUVERS AND VENTS, S.M.D. - 08.90.00
- 10.34 BUILDING IDENTIFICATION SIGNAGE, TO COMPLY WITH SMD FIRE PROTECTION STANDARD 205 - PREMISES IDENTIFICATION, 9" TALL AND 1-1/4" STROKE WIDTH MINIMUM.
- 48.01 ROOF MOUNTED SOLAR PANELS, REFER TO PHOTOVOLTAIC DRAWINGS



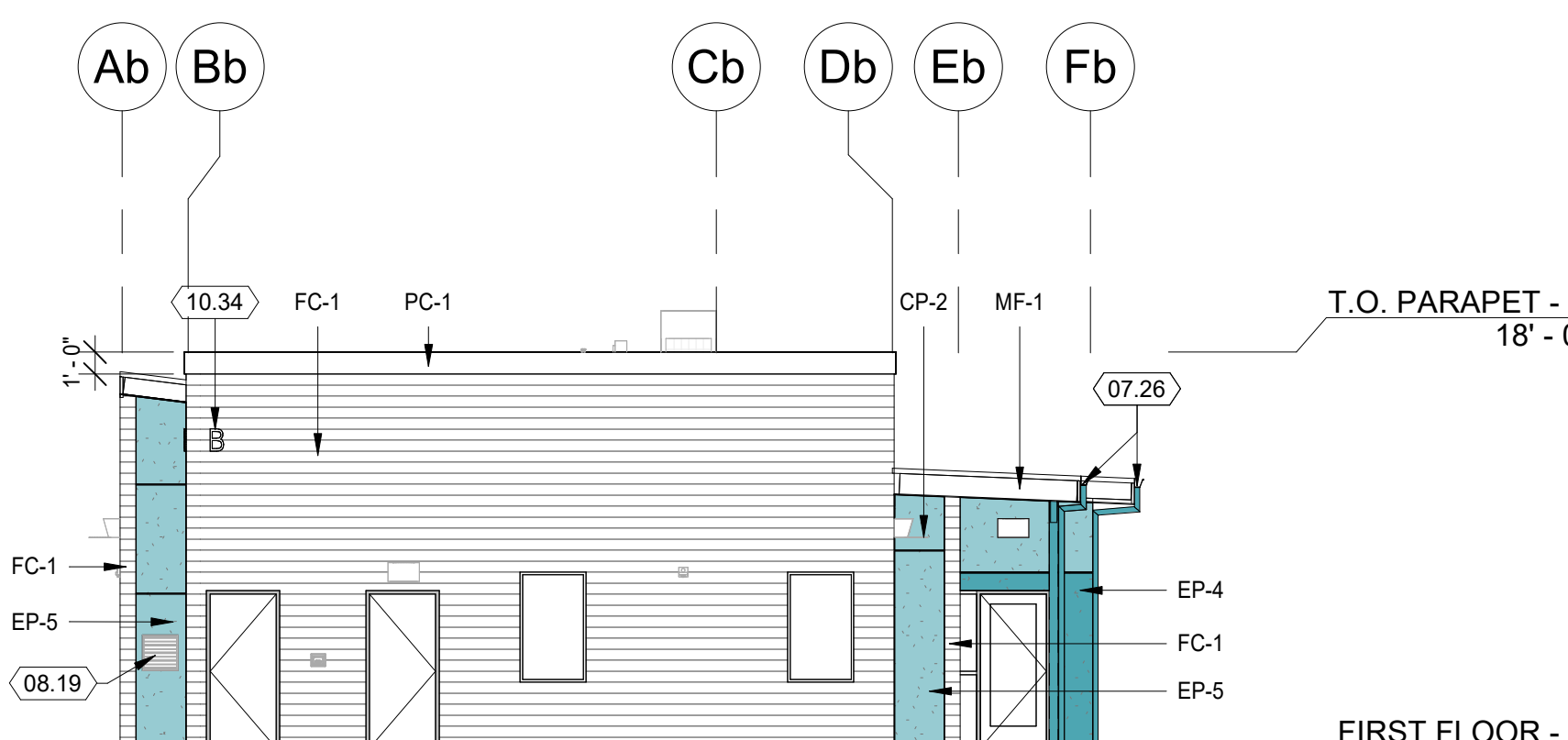
1 EXTERIOR ELEVATION - NORTH - BLDG B  
1/8" = 1'-0"



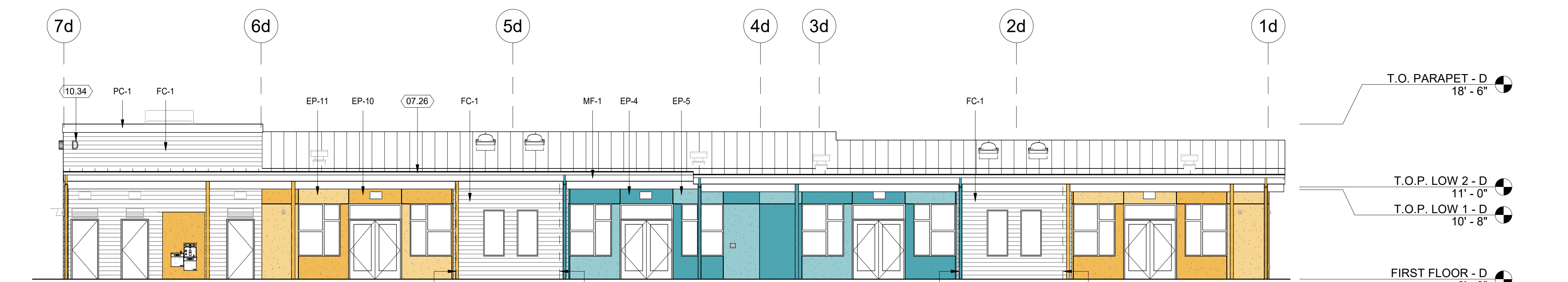
4 EXTERIOR ELEVATION - EAST - BLDG B  
1/8" = 1'-0"



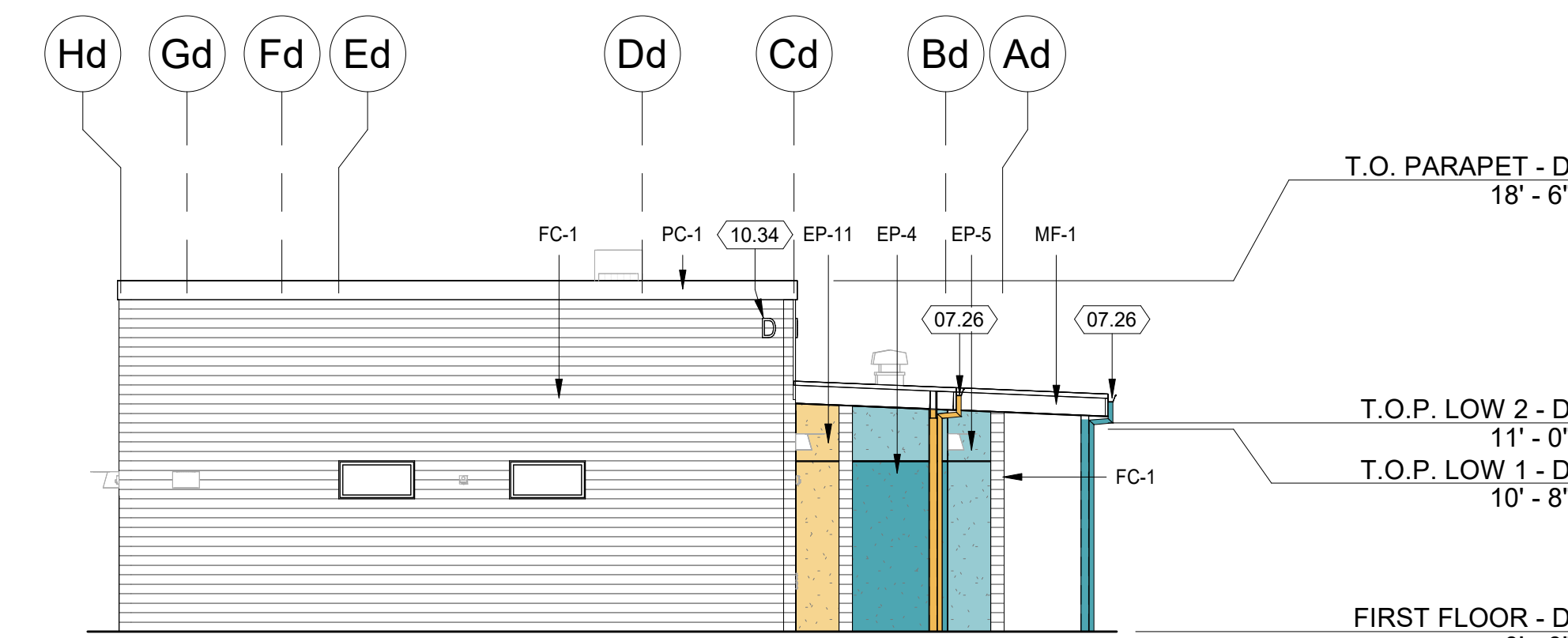
2 EXTERIOR ELEVATION - SOUTH - BLDG B  
1/8" = 1'-0"



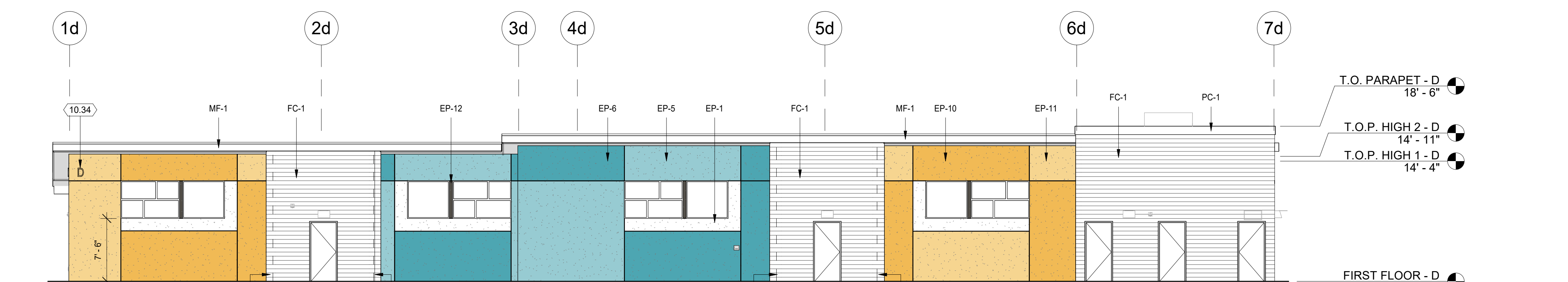
3 EXTERIOR ELEVATION - WEST - BLDG B  
1/8" = 1'-0"



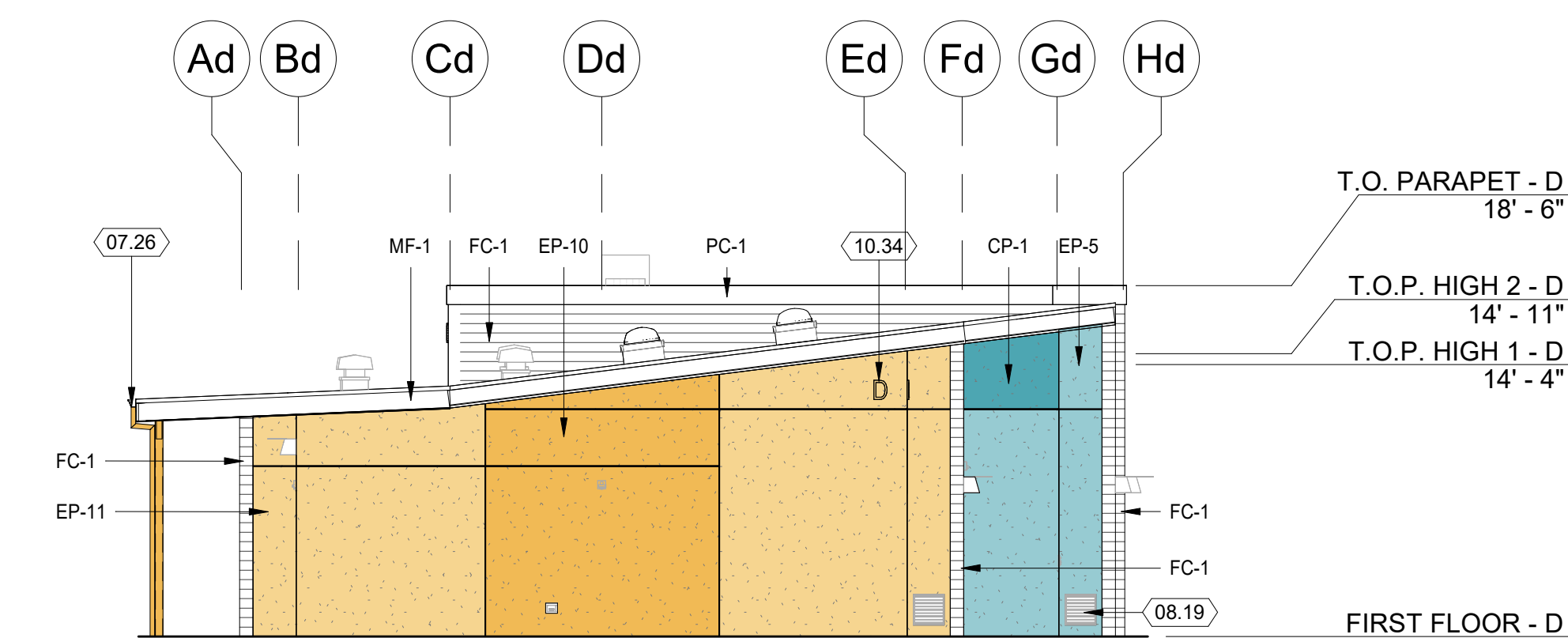
8 EXTERIOR ELEVATION - NORTH - BLDG D  
1/8" = 1'-0"



7 EXTERIOR ELEVATION - EAST - BLDG D  
1/8" = 1'-0"



6 EXTERIOR ELEVATION - SOUTH - BLDG D  
1/8" = 1'-0"

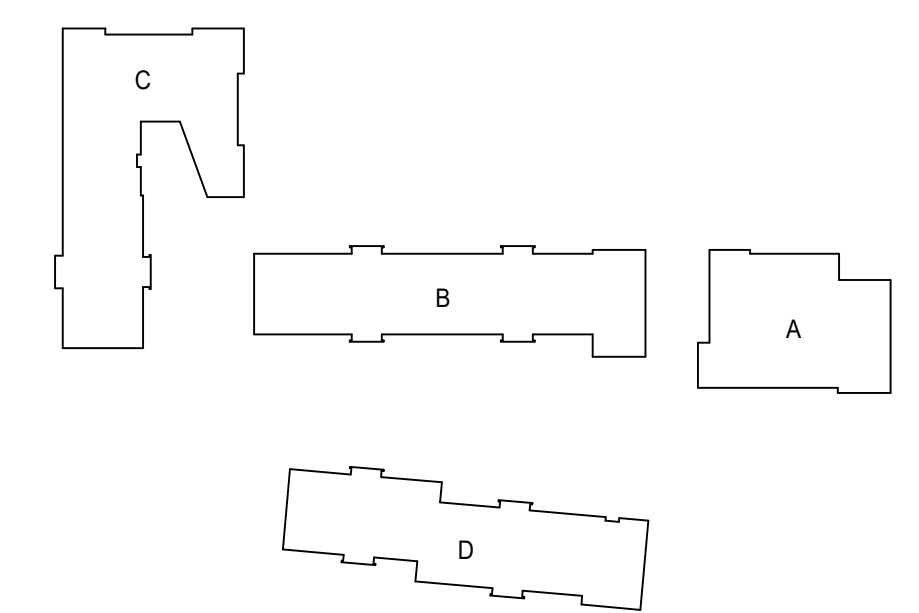


5 EXTERIOR ELEVATION - WEST - BLDG D  
1/8" = 1'-0"

**EXTERIOR ELEVATION GENERAL NOTES**

- 1. FOR WALL MOUNTED LIGHT FIXTURES, SEE ELECTRICAL FOR MOUNTING HEIGHT.
- 2. ALL EXTERIOR CMU TO BE COATED WITH PROSECO BLOK-GUARD & GRAFFITI CONTROL ULTRA (BASIS OF DESIGN)
- 3. ALL EXTERIOR CMU PARAPET WALLS TO HAVE PREFINISHED METAL COPING

**KEY PLAN**



DSA APP. NO. 01-121006

SEAL

100% CONSTRUCTION DOCUMENTS

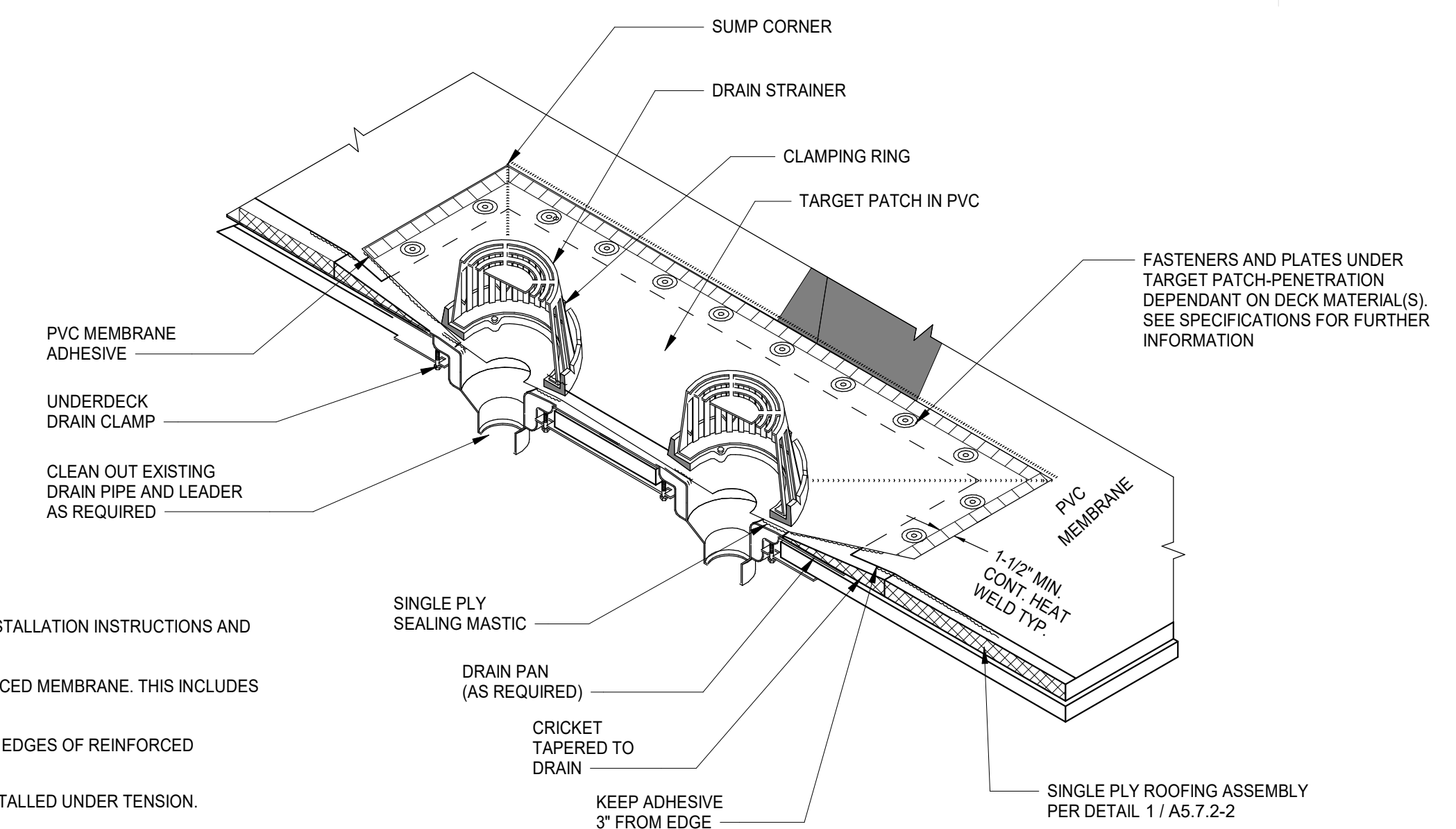
Project: SAUSALITO MARIN CITY SCHOOL DISTRICT  
 DR. MARTIN LUTHER KING JR. ACADEMY  
 636 NEVADA STREET, SAUSALITO, CA 94965

NO.	DATE	ISSUE

**A3.1.2-2**

**LEGEND**

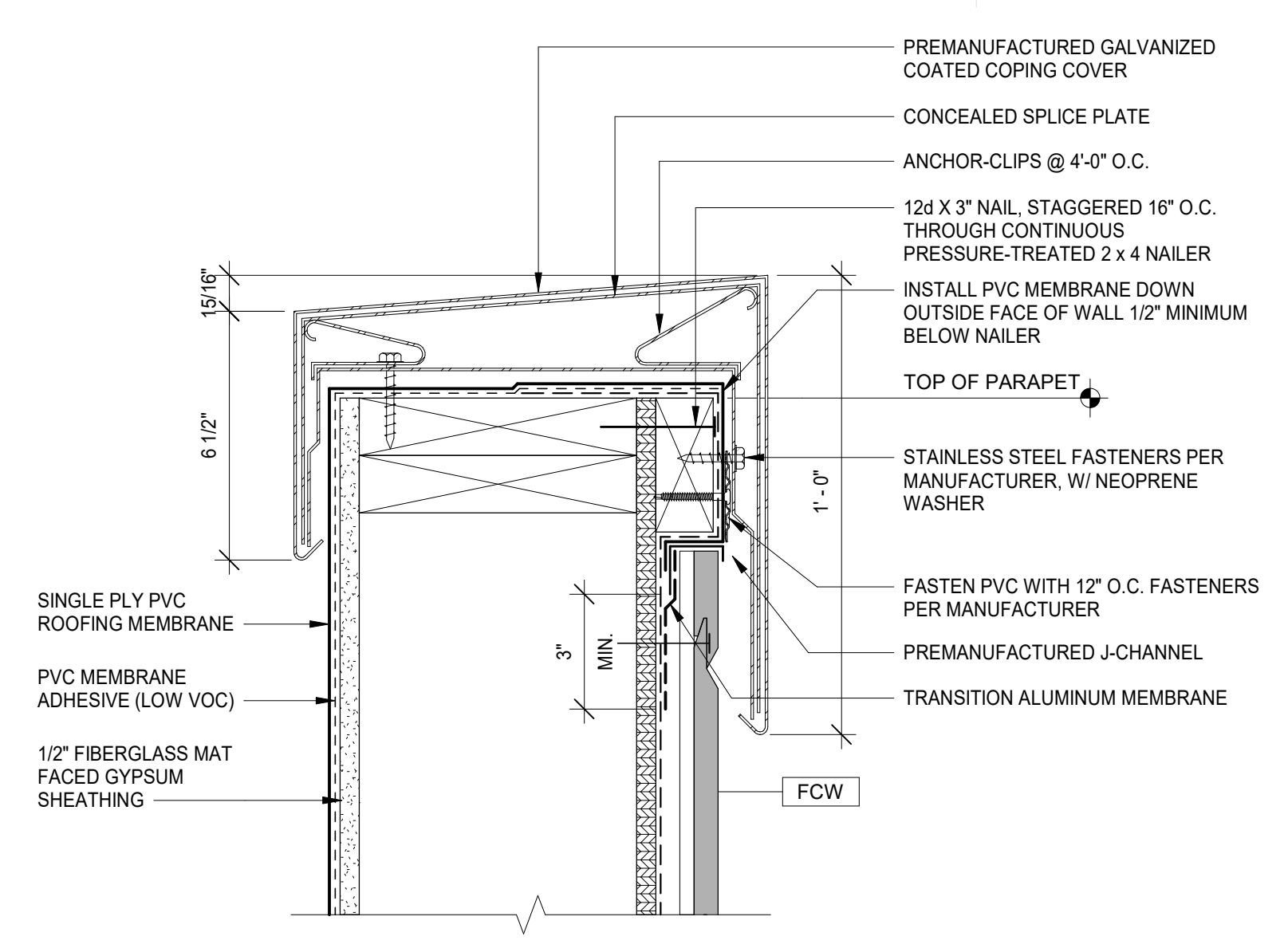
PW	FOR WALL TYPE TAGS SHOWN IN DETAIL REFER TO EXTERIOR WALL TYPES SHEET, A5.1.1-2, FOR ASSEMBLY INFORMATION
FCW	



- NOTES:**
- PLEASE SEE SINGLE PLY FLASHING SPECIFICATIONS FOR A FULL DESCRIPTION OF INSTALLATION INSTRUCTIONS AND REQUIREMENTS WHICH ARE CONSIDERED A PART OF THIS DETAIL.
  - PVC SEALANT IS OPTIONAL ON ALL CUT OR NON-ENCAPSULATED EDGES OF REINFORCED MEMBRANE. THIS INCLUDES FACTORY CUT MEMBRANE.
  - SEALANT IS OPTIONAL ON ALL CUT OR NON-ENCAPSULATED EDGES OR REINFORCED EDGES OF REINFORCED MEMBRANE. THIS INCLUDES FACTORY CUT MEMBRANE.
  - SUMP AREA MUST BE PROPERLY TAPERED SO THAT THE DRAIN FLASHING IS NOT INSTALLED UNDER TENSION.

**PRIMARY DRAIN SUMP ISOMETRIC**  
6" = 1'-0"

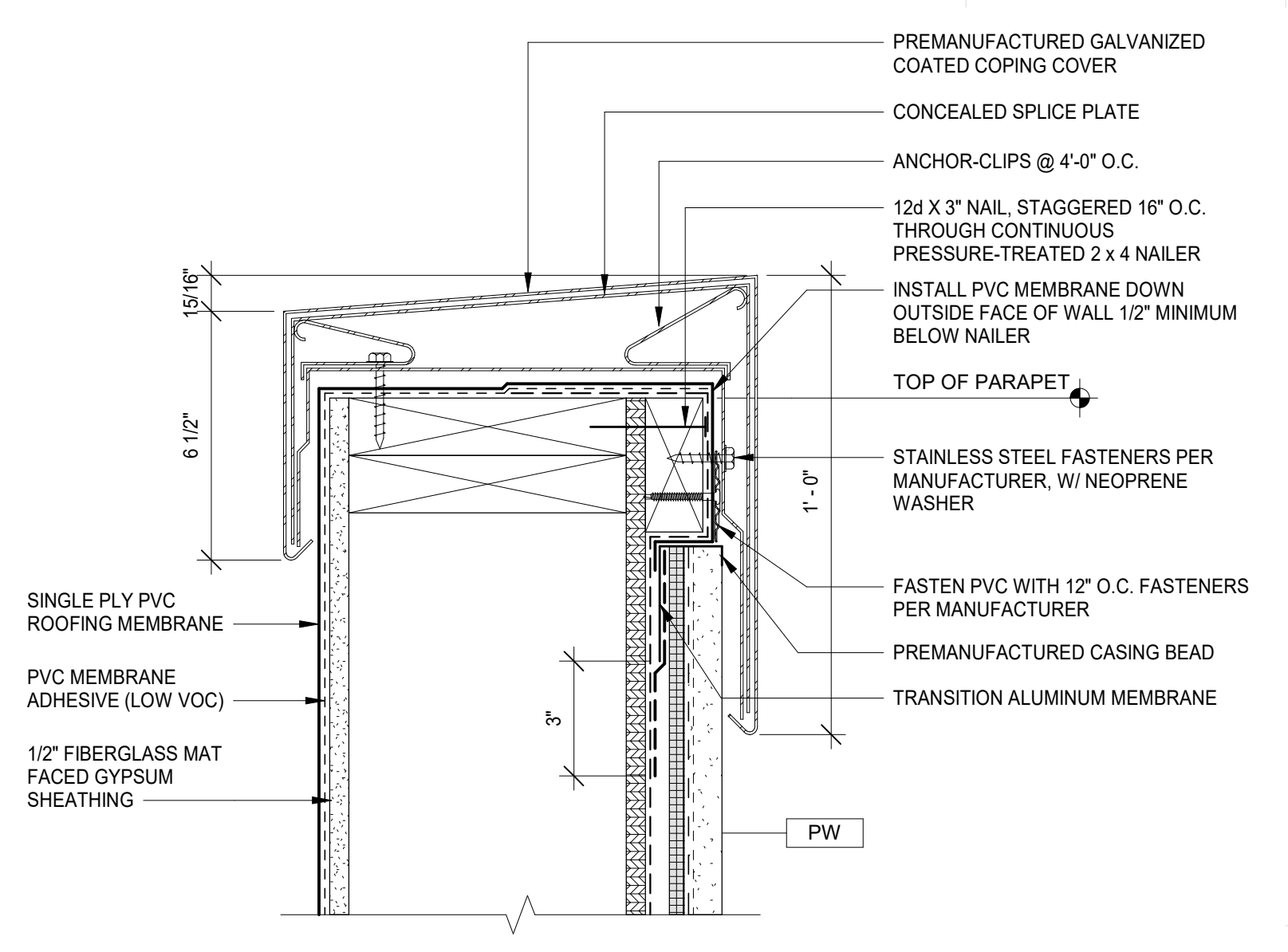
CLIMATE ZONE: C.E.C. #3 **12**



- NOTES:**
- INSTALL PVC MEMBRANE DOWN OUTSIDE FACE OF WALL 1/2" MINIMUM BELOW NAILER
  - FASTEN PVC WITH 12" O.C. FASTENERS PER MANUFACTURER, W/ NEOPRENE WASHER
  - PREMANUFACTURED J-CHANNEL
  - TRANSITION ALUMINUM MEMBRANE

**PARAPET CAP AT FIBER CEMENT**  
3" = 1'-0"

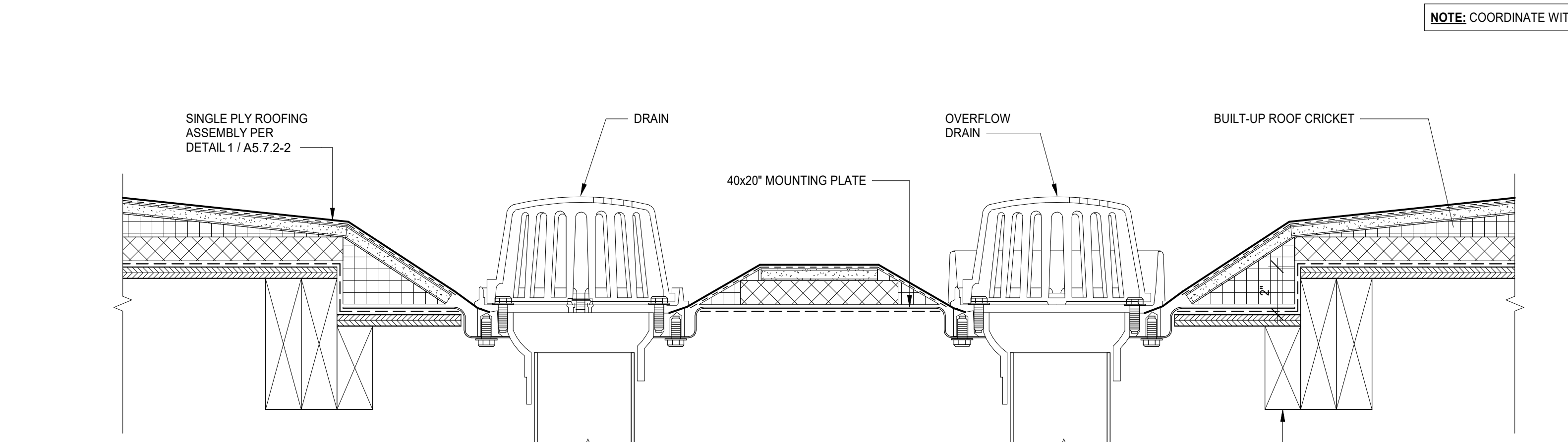
CLIMATE ZONE: C.E.C. #3 **8**



- NOTES:**
- INSTALL PVC MEMBRANE DOWN OUTSIDE FACE OF WALL 1/2" MINIMUM BELOW NAILER
  - FASTEN PVC WITH 12" O.C. FASTENERS PER MANUFACTURER
  - PREMANUFACTURED CASING BEAD
  - TRANSITION ALUMINUM MEMBRANE

**PARAPET CAP AT CEMENT PLASTER**  
3" = 1'-0"

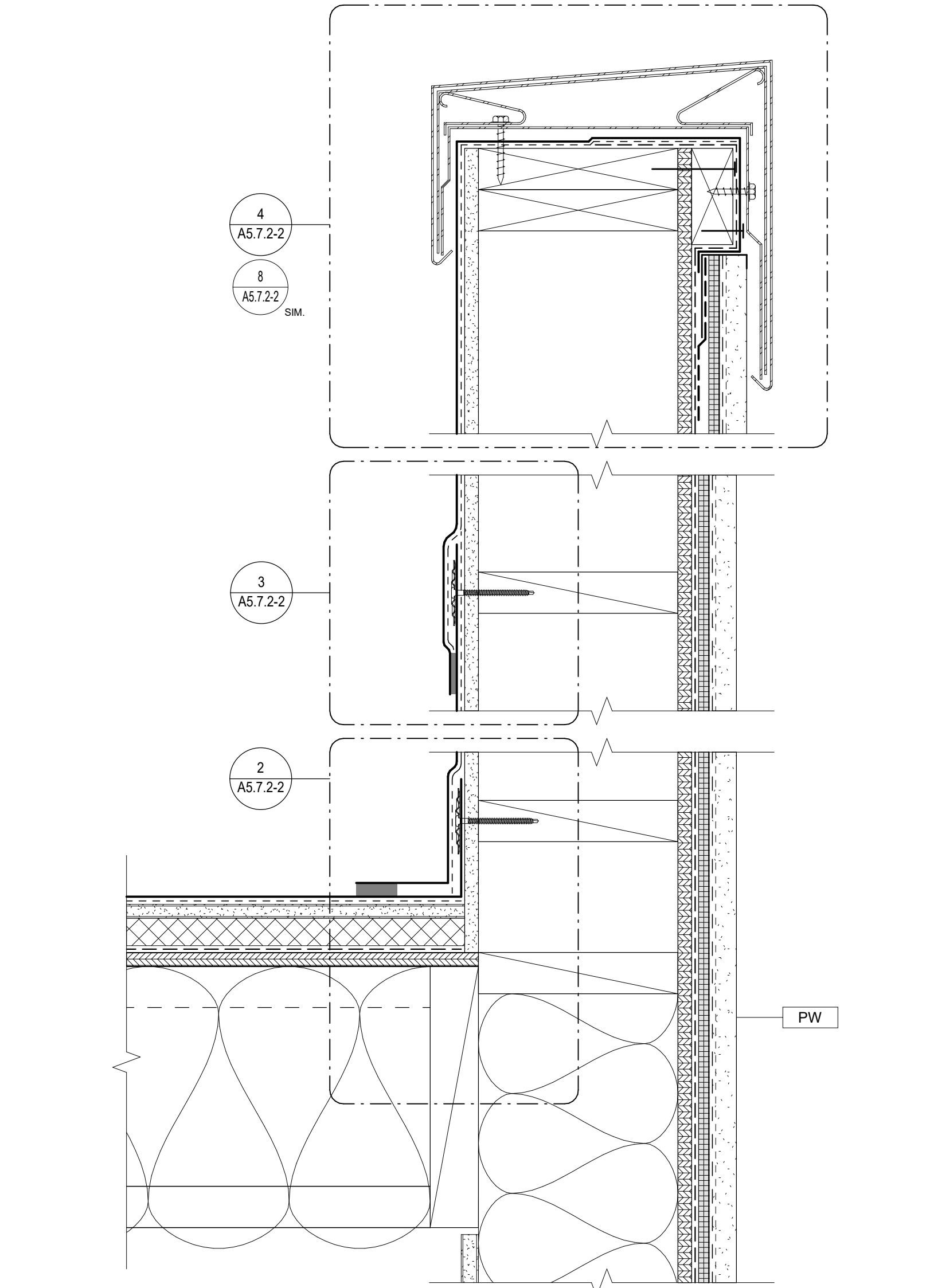
CLIMATE ZONE: C.E.C. #3 **4**



- NOTES:**
- SEE SINGLE PLY FLASHING SPECIFICATION FOR A FULL DESCRIPTION OF INSTALLATION INSTRUCTION AND REQUIREMENTS WHICH ARE CONSIDERED A PART OF THIS DETAIL.
  - REPLACE ANY BROKEN COMPONENTS (DRAINS, RINGS, BOLTS, ETC.)
  - SUMP AREA MUST BE PROPERLY TAPERED SO THAT THE DRAIN FLASHING IS NOT INSTALLED UNDER TENSION.

**PRIMARY DRAIN SUMP SECTION**  
3" = 1'-0"

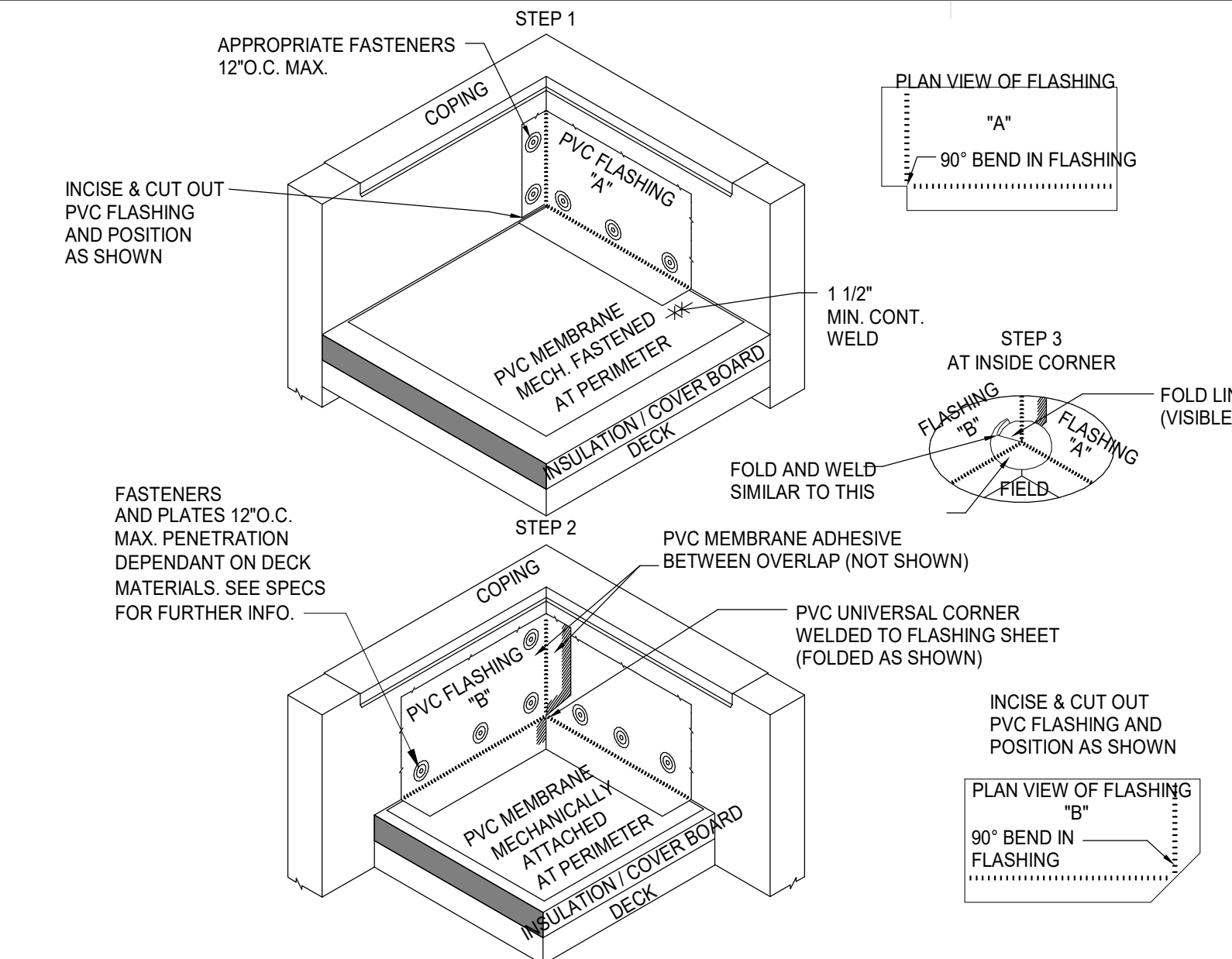
CLIMATE ZONE: C.E.C. #3 **11**



- NOTES:** SEE SINGLE PLY FLASHING SPECIFICATIONS FOR A FULL DESCRIPTION OF INSTALLATION INSTRUCTIONS AND REQUIREMENTS WHICH ARE CONSIDERED A PART OF THIS DETAIL.

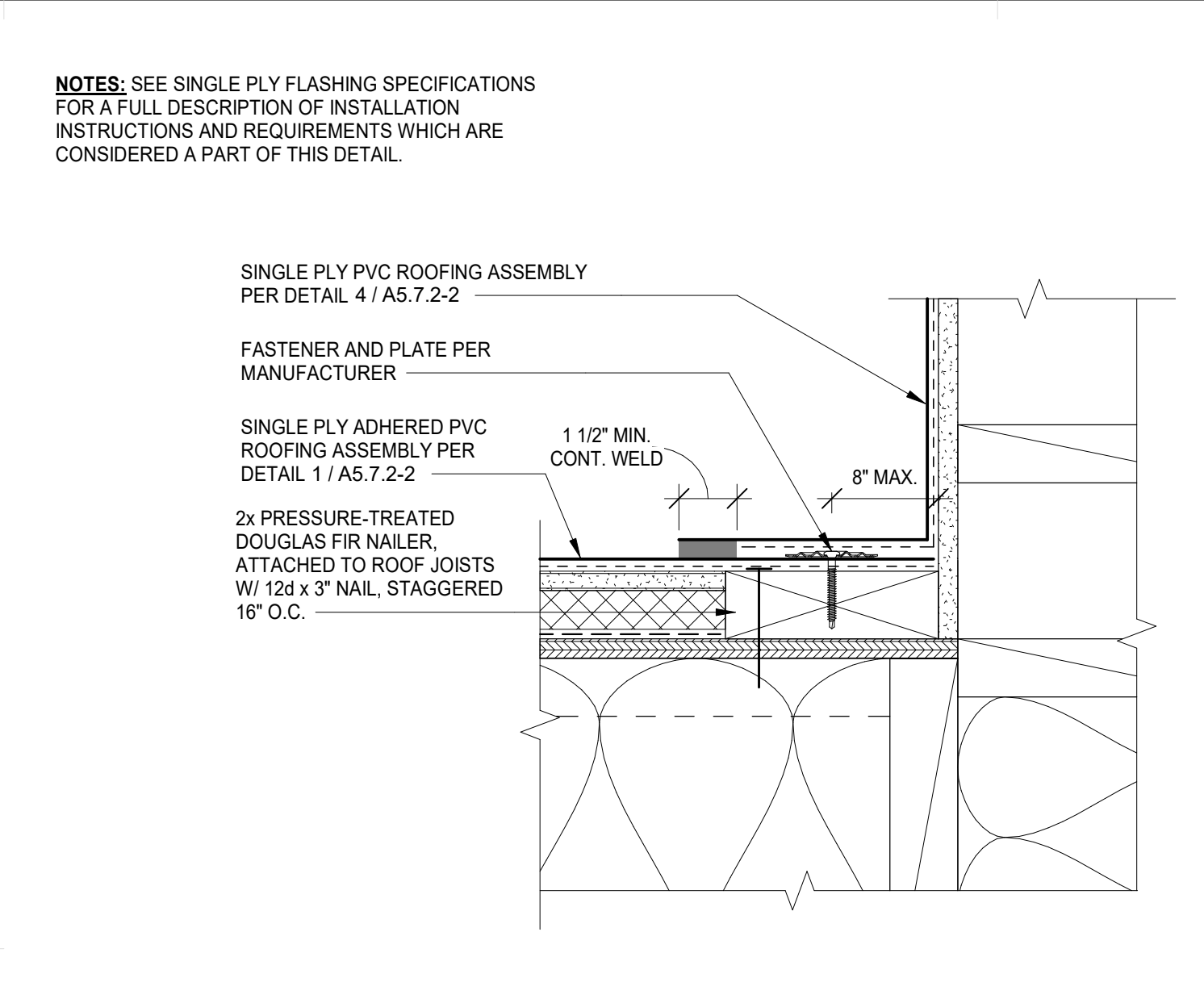
**PVC INTERMEDIATE MEMBRANE ATTACHMENT (FASTENER & PLATE)**  
3" = 1'-0"

CLIMATE ZONE: C.E.C. #3 **3**



**SINGLE PLY ROOFING OUTSIDE CORNER ISOMETRIC**  
6" = 1'-0"

CLIMATE ZONE: C.E.C. #3 **14**



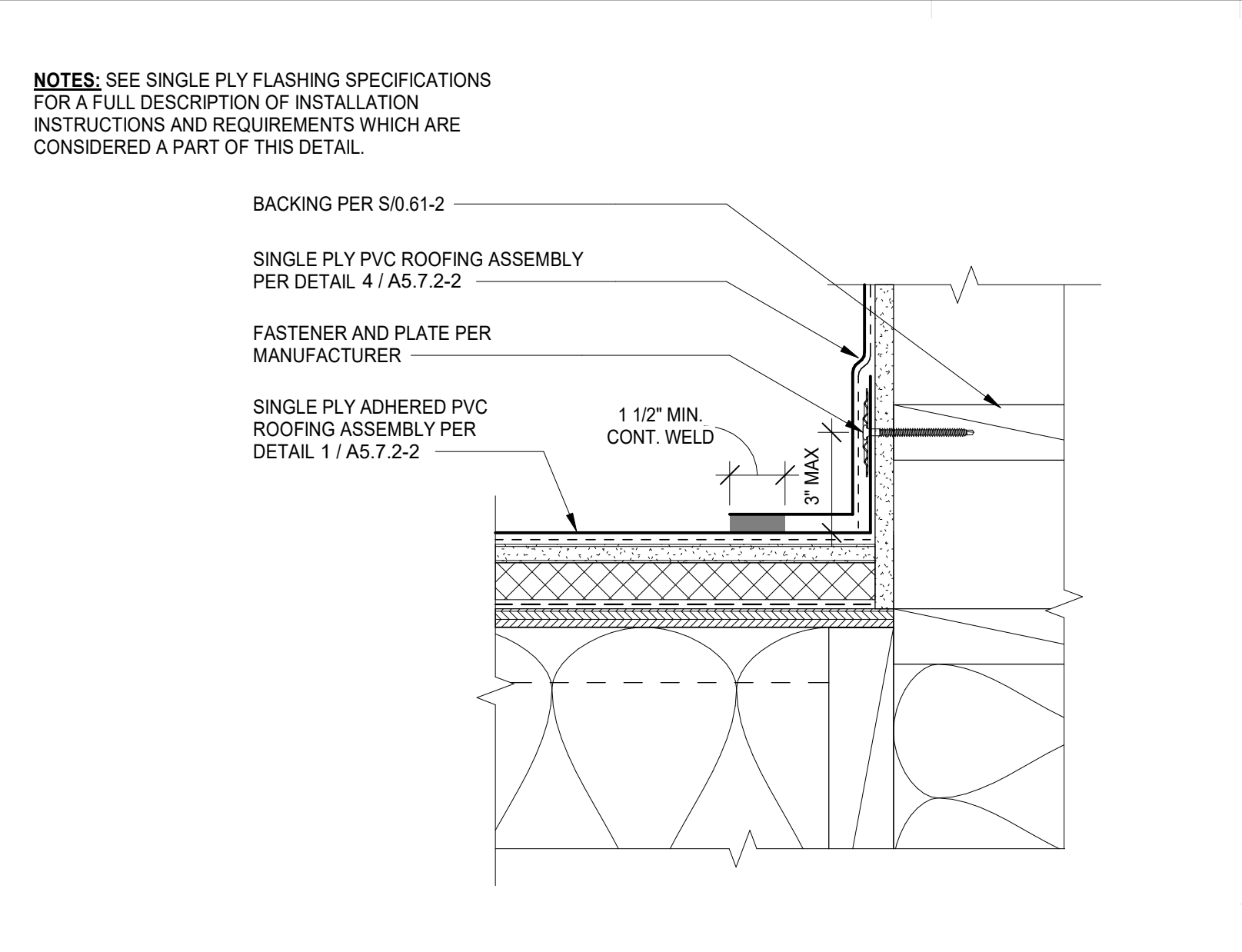
**PVC BASE TIE-IN (FASTENER & PLATE)**  
3" = 1'-0"

CLIMATE ZONE: C.E.C. #3 **10**

- NOTES:**
- A SUFFICIENT BACKER FASTENING STRIP MUST BE INSTALLED BEHIND SUBSTRATES DIRECTLY TO STUDS FOR INSTALLATION OF TERMINATION BARS AND FLASHINGS WHEN SUBSTRATES WILL NOT SUPPORT A PROPER, SECURE INSTALLATION.
  - MINIMUM FLASHING TERMINATION HEIGHT IS 8" ABOVE ROOF SURFACE. INTERMEDIATE ADHERED MEMBRANE FASTENING REQUIRED AT 5'-0" INTERVALS MAXIMUM
  - ADHESIVES FOR USE ON VERTICAL FLASHING APPLICATIONS INCLUDES PVC MEMBRANE ADHESIVE (LOW VOC) ONLY.

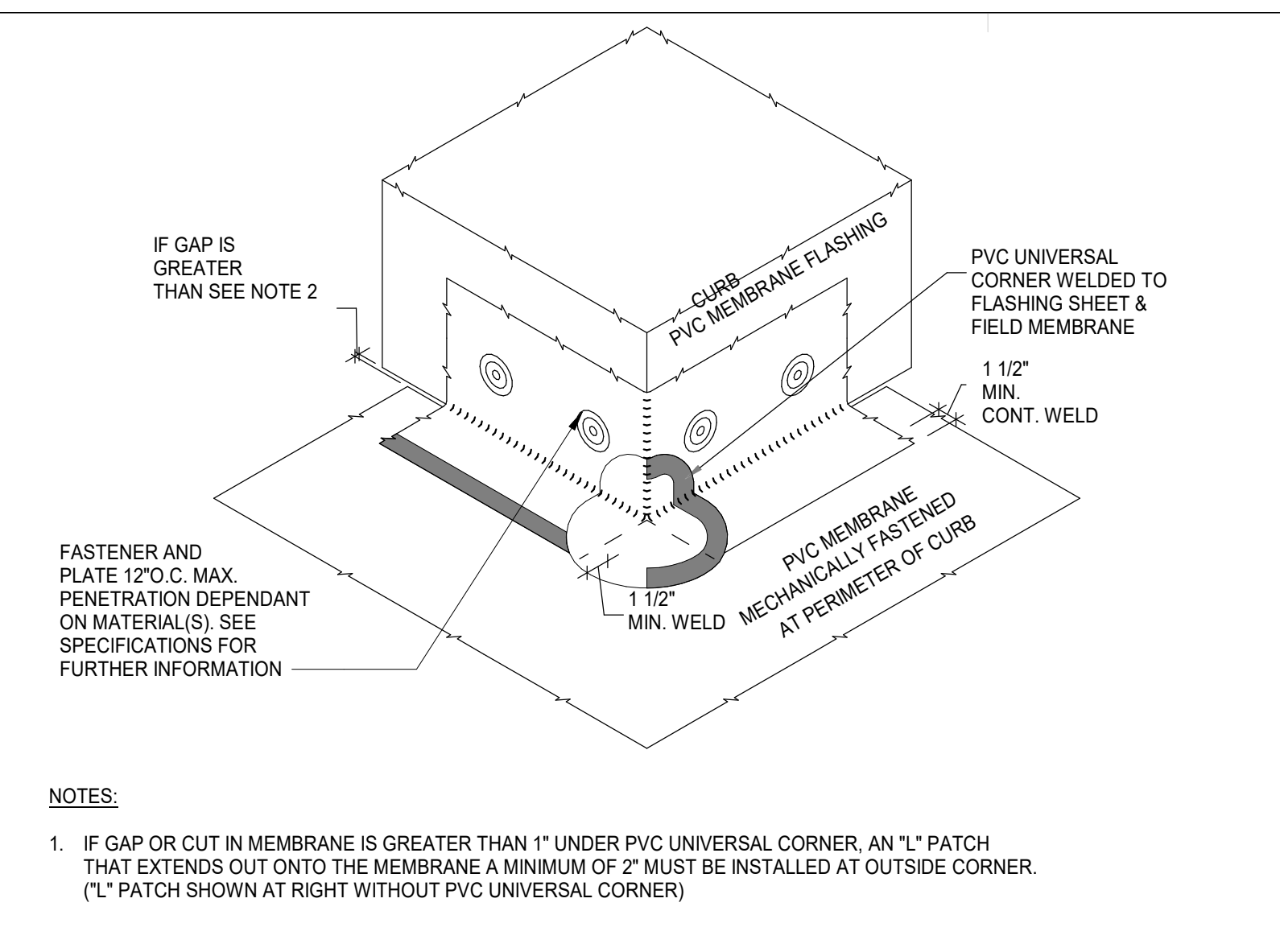
**BASE WALL FLASHING WITH COPING**  
3" = 1'-0"

CLIMATE ZONE: C.E.C. #3 **7**



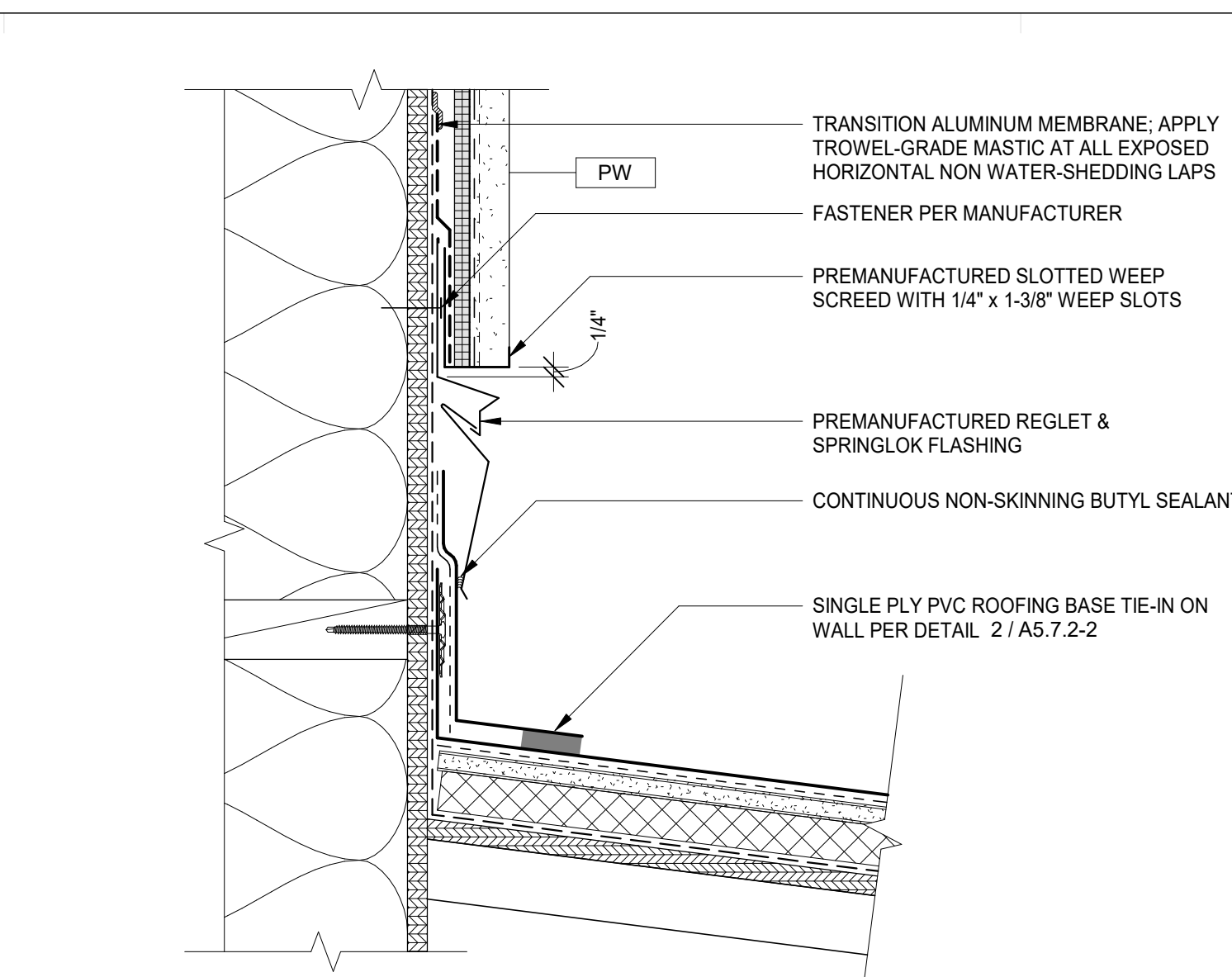
**PVC BASE TIE-IN (FASTENER & PLATE) ON WALL**  
3" = 1'-0"

CLIMATE ZONE: C.E.C. #3 **2**



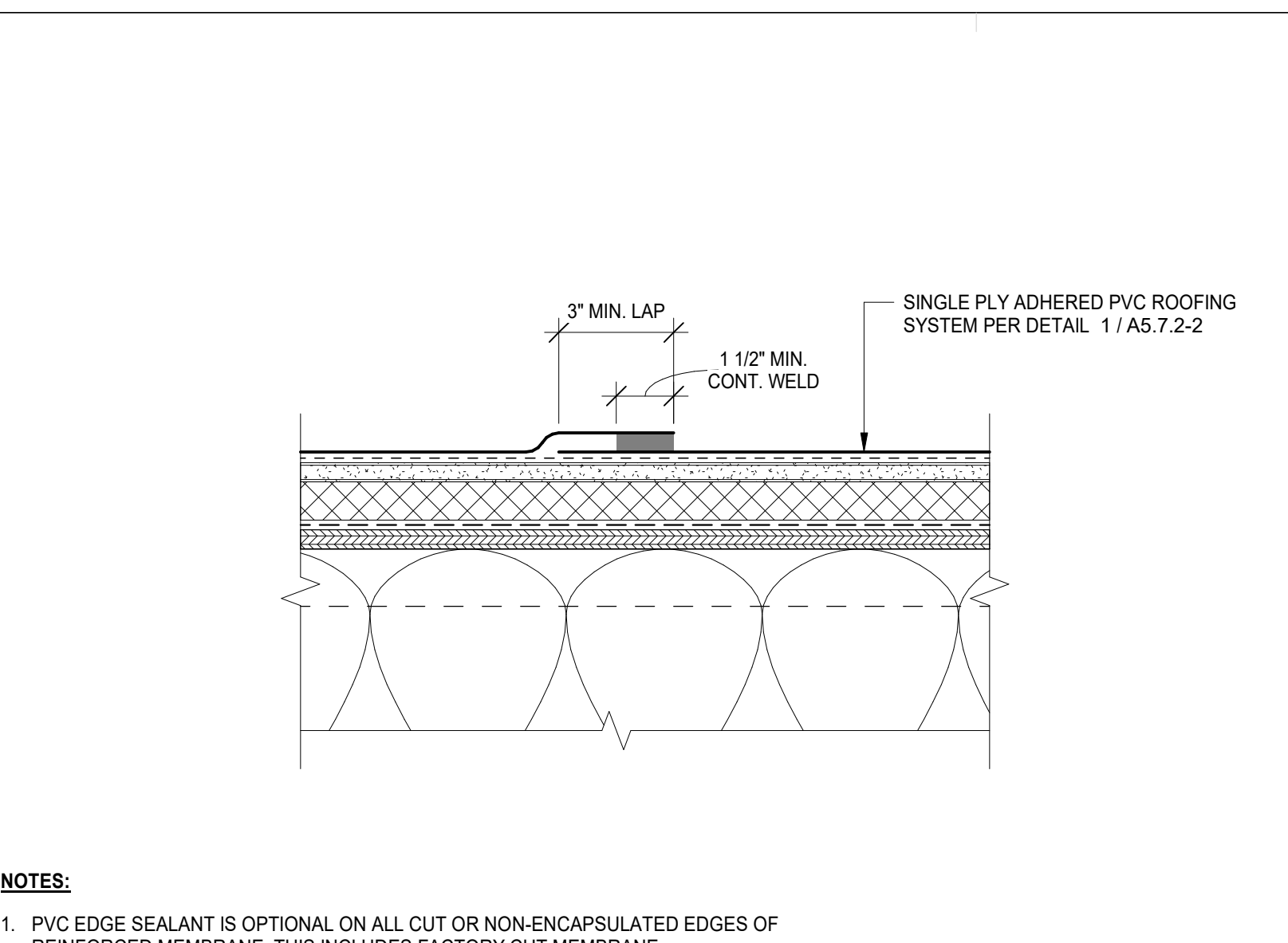
**SINGLE PLY ROOFING BASE/CURB TRANSITION - INSIDE CORNER ISOMETRIC**  
6" = 1'-0"

CLIMATE ZONE: C.E.C. #3 **13**



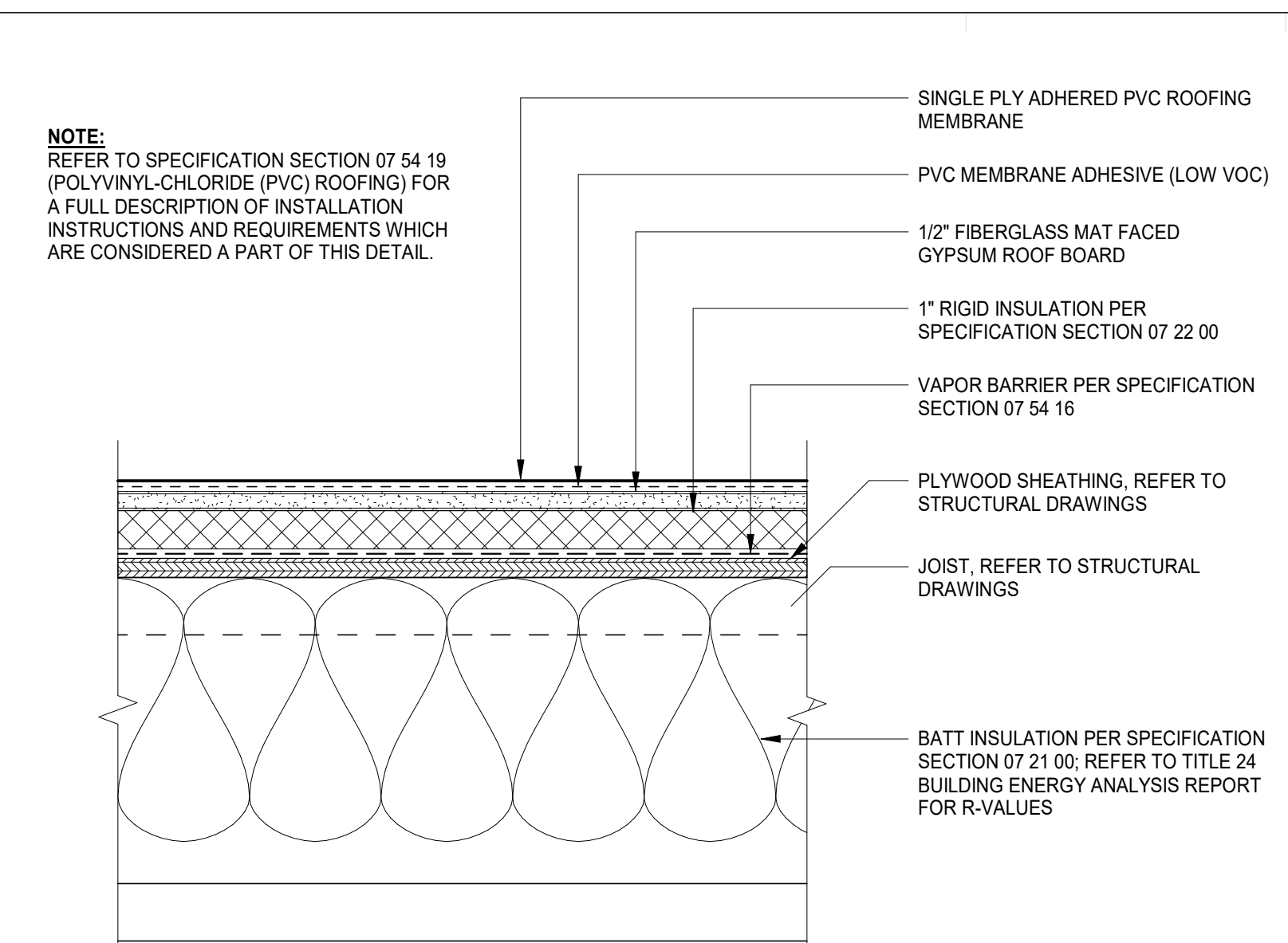
**SINGLE PLY ROOF TO WALL AT CEMENT PLASTER**  
3" = 1'-0"

CLIMATE ZONE: C.E.C. #3 **9**



**SINGLE PLY ROOFING SIDE LAP**  
3" = 1'-0"

CLIMATE ZONE: C.E.C. #3 **5**



**ROOF ASSEMBLY - SINGLE PLY ROOFING**  
3" = 1'-0"

CLIMATE ZONE: C.E.C. #3 **1**

DSA APP. NO. 01-121006



100% CONSTRUCTION DOCUMENTS

Roof Details

NO.	DATE	ISSUE

Project: SAUSALITO MARIN CITY SCHOOL DISTRICT  
 DR. MARTIN LUTHER KING JR. ACADEMY  
 636 NEVADA STREET, SAUSALITO, CA 94965

Drawn By: CL  
 Checked By: AT  
 Project No.: 22-180  
 Date: 03/28/2024  
 Drawing No.:

**A5.7.2-2**