

COASTSIDE FIRE PROTECTION DISTRICT

ADDENDUM NO. 2

Dated Tuesday, October 13, 2026

FIRE STATION #44 REPLACEMENT PROJECT

Notice is hereby given to prospective bidders that the Project documents for the subject project are modified as set forth in the following addendum. This addendum must be attached to, and form a part of, the bid submitted by each bidder.

The deadline to submit bids remains 2:00 PM on Tuesday, October 20, 2026. **The deadline for submitting additional questions regarding the project prior to the bid date is Wednesday, October 14, 2026 at 2:00 PM.**

THE FOLLOWING CHANGES AND CLARIFICATIONS ARE MADE:

Contractor Use of Site

Specification Section 01 1100, subsection 1.12.D. is hereby amended to read: "Coordinate parking, storage, staging, and Work areas with Owner. Owner will not provide a storage area for Contractor's equipment and materials. **Contractor can propose to utilize the site for staging and storage of equipment and materials as part of their Site Plan submittal per Section 01 50 00, subsection 1.3.A. Areas outside of the site itself that the Contractor determines are required for staging and storage of equipment and materials are the responsibility of the Contractor.** Do not store construction materials in the dripline of any tree.

Miscellaneous Equipment Specification

Replace previously issued section 11 90 00, with attached updated version.

Stone Veneer Specification

Replace previously issued section 04 73 00, with attached updated version.

Generator Specification

Section 26 32 13 Part 1, Item 1.9 shall be revised to read:

1.9 PERMITS

- A. The contractor shall be responsible for obtaining all permits, file applications and pay for all fees required for the following:
 - Bay Area Air Quality Management District (BAAQM) permit to construct.
 - Bay Area Air Quality Management District permit to operate.
 - Bay Area Air Quality Management District health risk screening analysis.
 - Planning Department environmental permit (air and noise).
 - Fire Marshal hazardous materials permit.

BELOW ARE RESPONSES TO QUESTIONS RECEIVED FROM BIDDERS:

1. Sealed Concrete: The documents do not specify whether the sealed concrete should be Clean & Seal or Grind & Seal. Please confirm the required finish.
 - a. Reference sheet A10.1. Where F2 - Sealed concrete is indicated on plan, provide clean

& seal in accordance with spec section 03 30 00 Section 2.6.G & 3.11. Where F1 - Polished Concrete is indicated on plan, grind, polish, & seal in accordance with specification section 03 35 10.

2. Epoxy Flooring: Details and specifications for the epoxy flooring are not provided. Please provide the required system, specifications, and manufacturer, if applicable.
 - a. Reference specification section 11 90 00 2.1.D. Install per manufacturer's standard installation.
3. Finish Schedule vs. Finish Plan: We noticed a few discrepancies between the finish schedule and the finish plan. Please confirm which document should be strictly followed for pricing and scope—the finish schedule or the finish plan.
 - a. See **attached** revised floor finish plan & schedule sheet A10.1. If further discrepancies persist, finish plans shall govern.
4. Nichiha panels specifications and complete details are missing.
 - a. See **attached** specification section 07 46 47.
5. BIM: Please confirm if BIM is required for the MEP coordination's etc.
 - a. A comprehensive BIM coordination model, or formal clash-detection process is not specifically required by the Contract Documents. The Contractor remains responsible for coordinating the work of all trades and providing coordination drawings and submittals as required by the individual specification sections. No additional BIM deliverables are required unless otherwise indicated in the Contract Documents.
6. Bi-Fold Doors: Please provide the specifications for the Bi-Fold Doors.
 - a. See **attached** new specification section 08 35 00.
7. Solid Surface: Please provide spec noted 00 61 16 (Ref. Alum. Window sill detail 10/-)
 - a. Reference section 06 41 16 section 2.6.B.5.
8. Windows: (See **attached** question and response table for Windows)
9. Doors: (See **attached** question and response table for Doors)
10. Roof Truss: (See **attached** question and response table for Roof Truss)
11. Does the "Buy American" act apply to this project?
 - a. No.
12. Please confirm whether the Coastside Fire Protection District will retain a Construction Management firm to administer and oversee construction on the Owner's behalf. If so, please identify the firm and clarify its responsibilities and authority relative to the Owner's Project Manager and Architect.
 - a. Staff is recommending that the Fire District Board approve a contract with Swinerton Management and Consulting for construction management and inspection. Ultimate authority rests with the Fire District as the owner. The Fire District has retained Sean Rose of SREI to continue as the Project Manager as it's representative for this project.
13. Please confirm the minimum staffing requirements for the General Contractor, including the Project Manager, Superintendent, Project Engineer, Safety Manager, Scheduler, and other key personnel.
 - a. The project specifications make reference to certain representatives from the General Contractor having specific responsibilities. Otherwise, staffing is left to the General Contractor to determine.
14. Please confirm whether the General Contractor is required to provide a dedicated Quality Control Manager or Quality Control Representative.
 - a. Bid per plans and specifications. Particular reference is made to Section 01 40 00.

15. Section 01 50 00 requires a furnished common-use field office for the Owner, Architect, and construction personnel. Please confirm whether this office must also accommodate the Construction Manager and inspection agencies. Please identify the designated or available on-site locations for the temporary office, construction trailer, material laydown, and staging areas.
 - a. See Addendum # 1, question and response #1 regarding job site trailer/office. Regarding material laydown and staging areas, see Section 01 50 00, subsection 1.3.A and clarification above under "Contractor Use of Site".
16. Please confirm whether the Owner intends to pursue LEED certification for this project.
 - a. No.
17. The Contract Documents establish 500 calendar days to Substantial Completion and 545 calendar days to Final Completion from the Notice to Proceed. Please provide the anticipated Notice to Proceed date and identify any mandatory interim construction milestones, phased turnovers, or occupancy deadlines that must be incorporated into the Contractor's baseline schedule.
 - a. See Addendum # 1, question and response #3 regarding contract time and Notice to Proceed Date. Regarding construction milestones, phased turnovers, or occupancy deadlines, bid per plans and specifications.
18. Section 01 91 13 establishes commissioning requirements and identifies responsibilities for a Commissioning Authority and Contractor's Commissioning Coordinator. Please confirm whether the Commissioning Authority will be retained and paid directly by the Owner.
 - a. Commissioning Authority will be retained and paid by the Owner.
19. Due to potential procurement lead times for electrical switchgear, generators, and other major equipment, please confirm whether the Owner will consider issuing the Contract while deferring the Notice to Proceed if documented equipment lead times would otherwise prevent completion within the specified Contract Time. If the Notice to Proceed is issued before such equipment can reasonably be procured and delivered, please clarify whether documented delays beyond the Contractor's control will qualify for a Contract Time extension.
 - a. See Addendum # 1, question and response #3 regarding contract time and Notice to Proceed Date. Procurement lead times shall be taken into account by the Contractor prior to bidding, and identification and ordering of long lead time items as early as possible shall be the sole responsibility of the Contractor. Per the specifications Contractor may apply for Contract Time extension, however it must be supported by evidence that the delay could not have been avoided and was beyond the contractor's control to be considered. See Section 00 7200 for additional information.

Attachments to this Addendum No. 2

1. Questions and Response table for Windows, Doors, Roof Truss
2. Section 04 73 00 (revised, supersedes prior version)
3. 07 46 47 (new)
4. 08 33 23 (new)
5. 08 35 00 (new)
6. 11 90 00 (revised, supersedes prior version)
7. A8.1 (revised, supersedes prior version)
8. A10.1 (revised, supersedes prior version)

If there are any questions regarding this addendum, please contact Sean Rose, Contract Project Manager for Coastside Fire District, at sean@srroseengineering.com.

Coastside Fire Station 44 Replacement - Pre-Bid Questions - ADDENDUM 2			
No.	Topic	Question	Response
8	Windows	Please confirm which exterior openings are aluminum storefront and which are aluminum windows. The bid documents don't say so directly, and some details conflict. References: A2.2, A5.1, A8.1 (Window Schedule, Legend and Notes), A8.2, A8.3 1. Storefront vs. window by type The A8.1 Window Schedule lists every type as ALUM / PF without naming the system. The detail references suggest the following: Types A–F: first floor at the stone wainscot. Details 17, 18, 19, 20 and 10/A8.2 show "ALUM STOREFRONT FRAME." Types G–P: fiber cement walls, mostly on the second floor plus the stair (M–P). Details 7, 8 and 9/A8.2 show an aluminum frame with trim, but the system is not named. Types Q–U: interior, 1/4" GL2. A8.3 has a note to "install aluminum storefront." Please confirm: Types A–F are aluminum storefront and types G–P are aluminum windows. The manufacturer and series for types G–P, and which units are fixed and which are operable. Types Q–U are interior storefront. The elevations: as we read A2.2 and A5.1, storefront is on the first floor of the South, Northwest and West elevations, and windows are on the second floor all around plus the stair on the North and East elevations. 2. Operable types with storefront details The A8.1 Window Legend shows E and L as double hung and G and K as sliders. Type E (2'-6" x 1'-8") is detailed with the storefront details at the stone (18, 19 and 20/A8.2). Please confirm: Whether type E is an operable double-hung window, and if so, its details at the stone veneer. That G, K and L are operable aluminum windows, and which sash operates on each. Any screen, egress or limited-opening requirements, particularly at the dorm windows (L). 3. Nail fin note vs. storefront frame Window Note 1 says "provide nail fin adapter for all aluminum windows." Details 18 and 19/A8.2 show a storefront frame screwed through the jambs, and details 7, 8 and 9/A8.2 show Tek screws with no nail fin. Please confirm: Note 1 applies only to types G–P. Whether types G–P are nail-fin windows flashed per 30/A8.2, or block-frame units fastened per 7, 8 and 9/A8.2. The sill flashing at the stone sills (20/A8.2): whether it is a manufacturer's receptor or sill pan, or the 18 ga sill pan per 11/A8.2.	1. Storefront and Aluminum Window Systems a. Exterior fixed glazing shall be aluminum storefront framing in accordance with Section 08 41 13, ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS. Provide Kawneer Trifab storefront framing or approved equal, as specified. b. Window Types E and L shall incorporate Kawneer GLASSvent or approved equal project-out (awning-style) operable window units within the storefront framing. Provide a fixed upper lite with an operable lower sash. Coordinate the operable units with the storefront system to maintain a consistent exterior appearance. c. Window Types G, K, and Q shall be aluminum horizontal sliding windows in accordance with Section 08 51 13, ALUMINUM WINDOWS. Coordinate the frame finish, color, and exterior sightlines with the adjacent storefront framing. d. Window Types Q–U shall be interior aluminum storefront framing as indicated on A8.1. 2. Window Operability and Performance a. Types E and L shall be fixed upper lite with operable lower awning sash. Types G, K, and Q shall be horizontal sliding windows. b. Provide screens, opening limiters, and other required hardware as applicable to the selected window systems and project requirements. Comply with applicable code requirements for emergency escape and rescue openings where required. c. Coordinate the selected operable window configurations with the manufacturer to confirm availability, dimensions, performance, and compatibility with the storefront framing. 3. Installation and Flashing a. Window Note 1 regarding nail-fin adapters applies only to the aluminum window units identified as Types G–P, where compatible with the selected manufacturer's installation requirements. b. Install storefront and aluminum window systems in accordance with the applicable specification sections, approved shop drawings, and manufacturer's written installation instructions. c. Coordinate perimeter flashing, sill pans, sealants, and attachment details with the applicable wall assemblies and manufacturer's requirements. Clarify and coordinate Details 7, 8, 9, 18, 19, and 20/A8.2 as necessary to reflect the selected systems and installation conditions.
9	Doors	1. Rear apparatus bay door 116D – door width vs. specified model: The A8.1 Door Schedule shows door 116D at 28'-0" W x 14'-0" H. The specified door, Model 521, only goes up to 26'-2" wide. Please confirm: The required opening size for door 116D. The door manufacturer and model to use at 28'-0" wide, or a revised opening width if Model 521 is to stay. 2. Door type The Door Schedule lists door 116D as type "ORD" (overhead rolling door, steel), but the specification calls for Model 521. Please confirm whether door 116D is a rolling door or a sectional door. 3. Glazing The North elevation (2/A5.1) shows door 116D with a row of window lites, not a full-vision door, and no glass is specified. Please confirm: Whether the door gets window lites or full-vision sections, and how many lites or sections. The glass type, thickness and tint, including whether it is tempered or insulated. 4. Door operator The specified operator, Model JST, has been out of production for decades. Please provide: A current operator manufacturer and model. The power requirements (voltage and phase), so the electrical design matches. The control and safety device requirements: photo eyes, edge sensors, and any interface with the station alerting system or the apparatus bay controls. 5. Coiling doors 106C (Fitness) and 117A (Yard Storage) The Door Schedule shows two 6'-0" x 7'-0" steel "ORD" coiling doors: 106C at Fitness 106 and 117A at Yard Storage 117. Neither has a specification. Please provide for both: The manufacturer and model. Gauge, finish and color. Manual or motorized operation, and if motorized, the operator and its power. Insulation, weatherseal and wind-load requirements. Locking hardware.	1. See attached new spec section 08 33 23 for overhead rolling doors. Required opening for door 116D is to be 28'-0" W x 14'-0" H as noted on plan. 2. Provide ORD as noted on schedule. Reference spec section 08 33 23. 3. Provide acrylic vision panels as noted in spec section 08 33 23. Quantity and location to be as shown on attached revised sheet A8.1. 4. Reference spec section 08 33 23 5. Reference spec section 08 33 23
10	Roof Truss	The Title Sheet lists "4. Roof Truss Design" as a deferred submittal item. That item would require delegated-design calculations and drawings signed by a California-registered engineer and approved by the AHJ before installation. However, the bid documents appear to show a fully engineered, conventionally framed roof with no trusses: Confirm: 1. Deferred Submittal Item 4, Roof Truss Design, does not apply to this project and will be removed by addendum, and the roof is to be built as engineered on S2.2/S2.3 with no delegated design. 2. If any part of the roof framing is meant to be pre-manufactured trusses, identify the locations, design loads and spec section, and confirm the contractor would be responsible for the truss engineering. 3. Section 06 10 00, Article 3.1.H, can be revised to remove the reference to shop-fabricated wood trusses.	1. Deferred Submittal Item 4 does not apply. Bid as shown on structural drawings.

SECTION 04 73 00 MANUFACTURED STONE MASONRY

1. PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Manufactured stone veneer.
- B. Trim shapes.
- C. Mortar.
- D. Metal lath.
- E. Underlayment.
- F. Anchorage, and accessories.

1.2 REFERENCES

- A. ASTM C847 - Standard Specifications for Metal Lath.
- B. ASTM C932 - Surface-Applied Bonding Agents for Exterior Plaster.
- C. ASTM C1063 - Installation of Lathing and Furring for Portland Cement Based Plaster.
- D. CBC - California Building Code, (CCR) California Code of Regulations, Title 24, part 2.
- E. MSJC - Masonry Standards Joint Committee (ACI 530/ASCE 5/TMS 402).
- F. NAAMM - Standard ML/SFA 920 - Guide Specifications for Metal Lathing and Furring.
- G. UL 723 - Test for Surface Burning Characteristics of Building Materials.
- H. TSIB - Technical Service and Information Bureau.

1.3 SUBMITTALS

- A. Submit product data under provisions of Section 01 33 00.
- B. Submit product data for stone veneer units and accessories.
- C. Submit samples under provisions of Section 01 33 00.
- D. Submit two samples of stone veneer units to illustrate color, texture and extremes of color range.
- E. Submit manufacturer's installation instructions under provisions of Section 01 33 00.
- F. Provide underlayment manufacturer's written installation instructions.

1.4 REGULATORY REQUIREMENTS

- A. Conform to CBC – California Building Code, (CCR) California Code of Regulations, Title 24, Part 2, Chapter 14.

1.5 QUALITY ASSURANCE

- A. Installer: Company specializing in performing the work of this Section with minimum five years documented experience.

- B. Installation of underlayment and penetration flashing shall be in accordance with manufacturer's installation guidelines and recommendations. Provide site reports from manufacturer's field service representative, indicating observation of underlayment and flashing installation.

1.6 MOCK-UP

- A. Provide mock-up of stone veneer wall under provisions of Section 01 43 00.
- B. Erect stone veneer to 3 x 4 feet panel size, include specified mortar, attachments and accessories.
- C. When accepted, mock-up will demonstrate minimum standard for the Work. Mock-up may remain as part of the Work.

1.7 PRE-INSTALLATION CONFERENCE

- A. Convene a conference two weeks prior to commencing work of this Section under the provisions of Section 01 31 00.
- B. Require the attendance of parties directly affecting the Work of this Section.
- C. Review requirements for installation of all materials specified in this Section for sequencing, proper installation, integration and protection.

1.8 DELIVERY, STORAGE, AND HANDLING

- A. Deliver, store and protect products to site under provisions of Section 01 61 00.
- B. Accept stone units on site. Inspect for damage.

1.9 ENVIRONMENTAL REQUIREMENTS

- A. Weather Requirements: MSJC - Masonry Standards Joint Committee, Hot and Cold weather Masonry Construction Manual (ACI 530/ASCE 5/TMS 402).

1.10 SEQUENCING AND SCHEDULING

- A. Coordinate work under the provisions of Section 01 31 00.

1.11 WARRANTY

- A. Provide ten year warranty for underlayment and flashings under provisions of Section 01 77 00.
- B. Warranty: Include coverage for published water infiltration properties of underlayment and flashings installed for exterior walls and openings.

2. PART 2 PRODUCTS

2.1 MANUFACTURERS - STONE VENEER

- A. Coronado Stone, www.coronado.com.
- B. Substitutions: Under provisions of Section 01 25 13.

2.2 STONE VENEER

- A. Stone: Sawtooth Ledge - Summer Cottage as manufactured by Coronado Stone Products.
- B. Thickness: 1 inch average, from 3" to 6" in height and up to 20" in length.

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- C. Weight: 8 to 10 lb/sq ft.
- D. Trim Shapes:
 - 1. Watertable/Sill.
 - 2. Wainscot Cap.
- E. Fire Hazard Classification: Flame spread of O, smoke development of O in accordance with UL723.

2.3 MANUFACTURERS - LATHING MATERIALS

- A. Lathing Materials:
 - 1. Amico-West, www.amico-lath.com.
 - 2. CEMCO, www.cemcosteel.com.
 - 3. ClarkDietrich Building Systems, www.clarkdietrich.com
 - 4. Clark Western Building Systems, www.westsidebmc.com.
- B. Accessories:
 - 1. Amico-West, www.amico-lath.com.
 - 2. CEMCO, www.cemcosteel.com.
 - 3. ClarkDietrich Building Systems, www.clarkdietrich.com.
 - 4. Clark Western Building Systems, www.westsidebmc.com.
 - 5. Stockton Wire Products, www.stocktonproducts.com.
- C. Substitutions: Under provisions of Section 01 25 13.

2.4 FURRING AND LATHING

- A. Metal Lath for Vertical Surfaces: ASTM C847, 3.4 lb/sq yd expanded metal, galvanized, self furring type with continuous groove.
- B. Underlayment:
 - 1. Underlayment: Tyvek as manufactured by E.I. DuPont de Nemours, www.tyvek.com
 - (a) First layer: Commercial Wrap D.
 - (b) Second layer: Commercial Wrap.
- C. Substitutions: Under provisions of Section 01 25 13.

2.5 ACCESSORIES

- A. Weep Screed: Equivalent to Stockton WS#7, minimum 0.0179 inch thick; depth governed by plaster thickness, minimum 3-1/2 inch high flange, "V" shaped, of longest possible lengths; galvanized finish.
- B. Anchorages: Nails, staples, or other approved metal supports, of type and size to suit application, galvanized to rigidly secure lath and associated metal accessories in place.

- C. Penetration Flashing: Tyvek flashing system. Straight Flash for jambs and heads, Flex Wrap for sills. Equivalent as manufactured by National Shelter Products, Inc.
- D. Tape: Acrylic adhesive backed oriented polypropylene, 3 inch wide.
- E. Bonding Agent: ASTM C932; type recommended for bonding plaster to concrete and concrete masonry surfaces. Larsen Products Corp. - Weld-Crete, www.larsenproducts.com.
- F. Cleaning Solution: Non-acid, not harmful to stone veneer or adjacent materials.
- G. Water Repellent: As specified in Section 07 19 00.
- H. Substitutions under provisions of Section 01 25 13.

2.6 MORTAR AND GROUT

- A. Types as specified in Section 04 05 13.

2.7 FLASHINGS

- A. Flexible Flashing: 5 oz/sq.ft. sheet copper coated both sides with fabric.
 - 1. Multi-Flash 500 manufactured by York Manufacturing, www.yorkmfg.com.
 - 2. Copper Fabric Flashing manufactured by Advanced Building Products, www.advancedbuildingproducts.com.
 - 3. Copper Fabric Flashing manufactured by Sardell Manufacturing Co., Inc., www.h-b.com.
- B. Substitutions: Under provisions of Section 01 25 13.

3. PART 3 EXECUTION

3.1 INSPECTION

- A. Verify that field conditions are acceptable and are ready to receive work.
- B. Verify items provided by other sections of work are properly sized and located.
- C. Concrete: Verify joints are cut flush and surface is ready to receive work of this Section. Verify no bituminous or water repellent coatings exist on surface.
- D. Grounds and Blocking: Verify items within walls for other Sections of work have been installed.
- E. Verify that underlayment is in place and ready to receive work of this section.
- F. Beginning of installation means installer accepts existing conditions.

3.2 PREPARATION

- A. Direct and coordinate placement of metal anchors supplied by other Sections.
- B. Clean concrete surfaces of foreign matter. Clean surfaces using acid solutions, solvents, or detergents. Wash surfaces with clean water.
- C. Apply bonding agent to masonry concrete in accordance with manufacturer's instructions.

3.3 INSTALLATION - LATHING MATERIALS

- A. Install metal lathing in accordance with ML/SFA 920, ASTM C1063 and as specified herein.
- B. On vertical surfaces apply 2 layers of underlayment over substrate; weatherlap horizontal edges 6 inches, vertical edges 6 inches. Fasten in place at 12 inches on center vertically over stud. Tape seal all joints and penetrations. Installation to conform to Single " Separate " Layer Method in accordance with TSIB Bulletin 60.220.
- C. Install penetration flashing around all openings and penetrations in exterior walls, soffits and ceilings in compliance with underlayment manufacturers recommendations and in conformance with recommendations contained in Plaster and Lathing Systems Manual and ML/SFA 920. Turn sill flashing up 6 inches at jambs. Extend flashing back onto sill, jamb, and head of all openings.
- D. Apply metal lath taut, with long dimension perpendicular to supports for vertical surfaces.
- E. Lap ends minimum 1 inch. Secure end laps with tie wire where they occur between supports.
- F. Lap sides of expanded metal lath minimum 1-1/2 inches. Nest outside ribs of rib lath together.
- G. Furr out metal lath from vertical supports or backing not less than 1/4 inch. Furring of metal lath on vertical supports having a bearing surface width of 1-5/8 inches or less is not required.
- H. Attach metal lath to wood supports using 1-1/2 inch No. 11 galvanized nails with 7/16 inch diameter heads at maximum 6 inches on center.
- I. Attach metal lath to vertical metal supports with tie wires or No. 8 self tapping screws with 3/8 inch diameter wafer head capable of penetrating metal supports by not less than 1/4 inch. Maximum spacing 6 inches on center.
- J. Place strip mesh diagonally at corners of lathed openings. Secure rigidly in place.
- K. Place 4 inch wide strips of metal lath centered over junctions of dissimilar backing materials. Secure rigidly in place.
- L. Place weep screed at base of all vertical plaster applications at foundation line not less than 4 inches above earth or 2 inches above paved surfaces. Underlayment and lath shall cover and terminate on the attachment flange of the screed.
- M. Install accessories to lines and levels.

3.4 INSTALLATION - MORTAR BED

- A. Apply mortar bed scratch coat over surfaces to a thickness of 1/2 to 3/4 inch.
- B. Allow scratch coat to cure for 48 hours.
- C. Shall be installed to provide a bond strength with a working shear of 50 PSI.

3.5 PLACING AND BONDING

- A. Apply stone working from the bottom up.
- B. Apply mortar to back of stone units and press firmly in place.
- C. Place units with uniform mortar joint of between 1/2 to 3/4 inch width.
- D. Perform necessary cutting with proper tools to provide uniform edges.

- E. Rake out mortar joints and brush joints clean to accommodate pointing mortar.
- F. Fill joints with pointing mortar. Pack and work into voids. Neatly tool surface to concave joint profile.

3.6 VENEER FLASHINGS

- A. Extend flashings under stone veneer, turn up minimum 8 inches and weather lap with underlayment.
- B. Install flashing at all window sills, door and window heads, and above shelf angles.
- C. Form flashing up into pan at jamb of window sills and at jamb of window and door heads.
- D. Lap end joints minimum 6 inches and seal watertight.
- E. Use flashing manufacturer's recommended adhesive and sealer.

3.7 FIELD QUALITY CONTROL

- A. Field inspection and testing will be performed under provisions of Section 01 45 29.

3.8 CLEANING

- A. Clean work under provisions of Section 01 77 00.
- B. Remove excess mortar and mortar smears.
- C. Replace defective mortar. Match adjacent work.
- D. Clean soiled surfaces with cleaning solution.
- E. Use non-metallic tools in cleaning operations.

3.9 WATER REPELLANT

- A. Apply water repellant as specified in Section 07 19 00.

END OF SECTION 04 73 00

SECTION 07 46 47 EXTERIOR FIBER-CEMENT SIDING AND TRIM

PART 1 GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes:
 - 1. Furnish and install exterior fiber-cement siding, with all fasteners and attachments required to complete work.
- B. Related Sections:
 - 1. Section 05 50 00: Metal Fabrications.
 - 2. Section 06 10 00: Rough Carpentry.
 - 3. Section 07 13 26: Self-Adhering Sheet Waterproofing.
 - 4. Section 07 25 00: Weather Barriers.
 - 5. Section 07 92 00: Joint Sealants.

1.3 SUBMITTALS

- A. Product Data:
 - 1. Manufacturer's specifications and other data needed to prove compliance with specified requirements.
 - 2. Manufacturer's installation instructions.
- B. Shop Drawings: Indicate size, material, and construction details. Show locations and installation procedure of each item. Include details of joints, attachments, and clearances.
- C. Certification: Manufacturers affidavit that materials used in Project contain no asbestos.
- D. Samples: Manufacturer's full range of colors, patterns, and textures for Architect's selection.

1.4 QUALITY ASSURANCE

- A. Installer Qualifications: An installer acceptable to manufacturer and Architect required for this Project.
- B. Source Limitations: Obtain from single source from single manufacturer.
- C. Mockups:
 - 1. Build mockups to verify selections made under Sample submittals, to demonstrate aesthetic effects, and to set quality standards for materials and execution:
 - a. Build mockup of typical wall area as shown on Drawings.
 - b. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Architect specifically approves such deviations in writing.
 - c. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.5 WARRANTY

- A. Warrant the work specified herein for 50 years against becoming unserviceable or causing an objectionable appearance resulting from both defective or nonconforming materials and workmanship.
- B. Defects shall include, but not be limited to:
 - 1. Cracking.
 - 2. Rotting.
 - 3. Delaminating.
 - 4. Damage due to moisture or termites.

PART 2 PRODUCTS

2.1 EXTERIOR FIBER-CEMENT SIDING

- A. Manufacturer (Basis of Design):
 - 1. Nichiha Corporation, 18-19 Nishiki 2-chrome Naka-ku, Nagoya, Aichi 460-8610, Japan.
 - 2. Nichiha USA, Inc., 6465 E. Johns Crossing, Suite 250, Johns Creek, GA. 30097 Office 770-805-9466, Fax 770-805-9467 www.nichiha.com
 - 3. Product designations: As listed below there are two (2) products noted. Refer to Drawings for location and product configuration.
- B. Designated Product One:
 - 1. Nichiha Vintage Wood Series vertical plank siding. Color to be Vintagewood Cedar.
 - 2. Thickness: 5/8 inch.
 - 3. Weight: 35.27 lbs./panel.
 - 4. Sheet Sizes: 18 inches high by six feet (6') or ten feet (10') long.
 - 5. Fiber cement panels manufactured from a pressed, stamped, and autoclaved mix of Portland cement, fly ash, silica, recycled rejects, and wood fiber bundles. With factory applied sealant gasket add to top and right panel edges; all joints contain a factory sealant.
 - 6. Panel profile along all four edges such that both horizontal and vertical joints between the installed panels are ship lapped.
 - 7. Non-combustibility: Product is non-combustible and shows no flame support or loss of integrity.
 - 8. Surface burning capabilities (when tested in accordance with ASTM E84):
 - a. Flame spread: 0.
 - b. Fuel contributed: 0.
 - c. Smoke developed: 5.
 - 9. Finish: Factory primed with long lasting, acrylic-based primer ready for field painting under Section 09 90 00: Painting and Coating, in color selected by Architect.
 - 10. Warranty: 50-Year Limited, Transferable, Product Warranty.
- C. Designated Product Two:
 - 1. Nichiha Illumination Series. Color to be Graphite.
 - 2. Thickness: 5/8 inch.
 - 3. Weight: 35.27 lbs./panel.
 - 4. Sheet Sizes: 18 inches high by six feet (6') or ten feet (10') long.
 - 5. Fiber cement panels manufactured from a pressed, stamped, and autoclaved mix of Portland cement, fly ash, silica, recycled rejects, and wood fiber bundles. With factory applied sealant gasket add to top and right panel edges; all joints contain a factory sealant.
 - 6. Panel profile along all four edges such that both horizontal and vertical joints between the installed panels are ship lapped.
 - 7. Non-combustibility: Product is non-combustible and shows no flame support or loss of integrity.

8. Surface burning capabilities (when tested in accordance with ASTM E84):
 - a. Flame spread: 0.
 - b. Fuel contributed: 0.
 - c. Smoke developed: 5.
9. Pattern: As shown on Drawings or selected by Architect from manufacturer's standard selection.
10. Finish: Factory primed with long lasting, acrylic-based primer ready for field painting under Section 09 90 00: Painting and Coating, in color selected by Architect.
11. Warranty: 50-Year Limited, Transferable, Product Warranty.

2.2 INSTALLATION COMPONENTS

- A. Ultimate Clip System:
 1. Starter track:
 - a. Horizontal panel installations - FA 700 – Ten-foot (10') long galvalume.
 - b. Vertical panel installations (ten-foot [10'] panels only) – FA 300T – six-foot-six-inches (6'6") long galvalume.
 2. Panel clips:
 - a. JEL 777 "Ultimate Clip" (10 mm rainscreen for 5/8-inch AWP) – 400 series stainless steel:
 - 1) Joint tab attachments included for six-foot (6') horizontal installations.
 3. Single flange sealant backer – FHK 1017 (10 mm) – 6.5-foot long fluorine coated galvalume.
 4. Double flange sealant backer – FH 1020 (10 mm) – ten-foot (10') long fluorine coated galvalume.
 5. Corrugated spacer – FS 1005 (5 mm), FS 1010 (10 mm) – four-feet (4') long.
 6. Finish clip (optional) – JE310 (5 mm).
- B. Aluminum Trim: Paint as specified in finish schedule.
- C. Fasteners: Corrosion resistant fasteners, such as hot-dipped galvanized screws appropriate to local building codes and practices must be used. Use stainless steel fasteners in high humidity and high-moisture regions. Panel manufacturer is not liable for corrosion resistance of fasteners. Do not use aluminum fasteners, staples, or fasteners that are not rated or designed for intended use. See manufacturer's instructions for appropriate fasteners for construction method used.
- D. Flashing: Flash all areas specified in manufacturer's instructions. Do not use raw aluminum flashing. Flashing must be galvanized, anodized, or PVC coated.
- E. Sealant: Sealant shall be polyurethane or hybrid and comply with ASTM C920.

PART 3 EXECUTION

3.1 EXTERIOR FIBER-CEMENT SIDING INSTALLATION

- A. Install siding over framing members in accordance with manufacturer's recommendations.
- B. Applying Siding:
 1. Start siding as recommended by manufacturer.
 2. Keep fasteners two inches (2") from corners of panel.
 3. Start at edge and work across.
 4. Follow caulk and paint requirements.
 5. Keep fasteners 3/8 inch from panel edges.
 6. Place fasteners two inches (2") in from all corners; do not nail into corners.

7. When caulking vertical panel joints, space panels in accordance with caulk manufacturer's required bead size.
 8. Use "Z" bar or similar type flashing for all horizontal joints.
- C. Grade Clearance:
1. Place minimum of six inches (6") clearance between bottom edge of panel/framing and concrete mow-strip.
- D. Roof Clearance: Leave two-inch (2") clearance between roofing and bottom edge of siding.
- E. Nailing:
1. Use corrosion resistant nails (galvanized or stainless steel) in type and size recommended by manufacturer.
 2. Fasteners must be corrosion resistant, galvanized or stainless steel. Electro-galvanized nails are not acceptable due to premature corrosion. Hot-dipped galvanized nails, such as the Maze® brand or that of an equivalent brand or recommended.
- F. Pneumatic Fastening:
1. Siding can be hand nailed or fastened with the use of a pneumatic tool. Set air pressure so that the fastener is driven snug with the panel surface.
 2. Use a flush mount attachment on pneumatic tool. This will help control the depth that the nail is driven. This will be especially helpful when more than one pneumatic tool is being used off the same compressor.
 3. Do not staple.
 4. Drive fasteners perpendicular to siding and framing.
 5. Fastener heads should fit snug against siding.
 6. Do not over-drive nail heads or drive nails at an angle.
 7. If nail is countersunk, caulk nail hole and add a nail.

3.2 FINISHING

- A. Patching: Dents, chips, and cracks can be filled with a cementitious patching compound.
- B. Caulking: A high quality, paintable latex caulk complying with ASTM C834. Caulking should be applied in accordance with caulking manufacturer's written application instructions. Leave 1/8-inch gap at trim and caulk.
- C. Painting: As specified in Section 09 90 00: Painting and Coating.

3.3 CLEANING

- A. Remove debris and clean siding in accordance with manufacturer's written instructions.

END OF SECTION 07 46 47

SECTION 08 33 23 OVERHEAD COILING DOORS

PART 1 GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section Includes:
 - 1. Electric operated overhead rolling doors rated for high cycle and / or high speed use.

1.3 SYSTEM DESCRIPTION

- A. Design Requirements:
 - 1. Air Infiltration to Comply With:
 - a. ASHRAE® (American Society of Heating, Refrigeration, and Air-Conditioning Engineers) Standard 90.1-2007, 2010 & 2013 requirements of less than .3 CFM/FT2
 - b. IECC® (International Energy Conservation Code) 2012 requirements of less than 1.0 CFM/FT2
 - 2. Insulated Door Slat Material Requirements:
 - a. Flame Spread Index of 0 and a Smoke Developed Index of 10 as tested per ASTM E84
 - b. Insulation to be CFC Free with an Ozone Depletion Potential (ODP) rating of zero

1.4 PERFORMANCE REQUIREMENTS

- A. Structural Performance, Exterior Doors:
 - 1. Capable of withstanding the design wind loads:
 - a. Design wind load: As indicated on Drawings.
 - b. Testing: According to ASTM E330.
 - c. Deflection limits: Design overhead coiling doors to withstand design wind load without evidencing permanent deformation or disengagement of door components.
- B. Seismic Performance: Overhead coiling doors shall withstand the effects of earthquake motions determined according to ASCE 7.

1.5 SUBMITTALS

- A. Product Data:
 - 1. Manufacturer's specifications and other data needed to prove compliance with specified requirements.
 - 2. Manufacturer's installation instructions.
 - 3. Manufacturer's operation and maintenance data.
- B. Shop Drawings: Indicating opening sizes, details of slat curtain, track and hardware, attachments, related and adjacent work, materials, and finishes.

- C. Samples: 12-inch by 12-inch sample of slats with specified finish for each type door.

1.6 QUALITY ASSURANCE

- A. Installer Qualifications: Company specializing in installing coiling doors with minimum five (5) years' experience and approved by manufacturer.
- B. Contractor shall have the sole responsibility for entire coiling door assembly and associated work shown or required for complete system.
- C. Pre-installation conference is to be conducted onsite.

1.7 WARRANTY

- A. Standard Warranty: Five years or 1,000,000 cycles (at rear app. Bay door), Two years or 50,000 cycles (at fitness room / yard storage door) whichever comes first, from date of shipment, against defects in material and workmanship, on mechanical components, operator and control panel.
- B. B. Maintenance: Submit for owner's consideration and acceptance of a required preventative maintenance schedule and service agreement for installed products.

PART 2 PRODUCTS

2.1 MANUFACTURERS, GENERAL

- A. Source Limitations:
 - 1. Obtain overhead coiling doors from single source from single manufacturer: Obtain operators and controls from overhead coiling door manufacturer.

2.2 DOOR ASSEMBLY AND SIZE (AS INDICATED ON DRAWINGS)

- A. Insulated Service Door:
 - 1. Overhead coiling door formed with curtain of interlocking metal slats:
 - a. Subject to compliance with requirements, provide product indicated or comparable product by one of the following (substitution form required for manufacturers other than listed as basis of design):
 - 1) Cookson Company (basis of design).
 - 2) ACME Rolling Doors.
 - 3) Clopay Building Products.
 - 4) Cornell Iron Works, Inc.
 - 5) McKeon Rolling Steel Door Company, Inc.
 - 6) Overhead Door Corporation.
 - 7) Raynor.
 - 8) Approved equal.
- B. Basis of Design Product:
 - 1. Cookson Extreme Performance 1024 Insulated Rolling Door (At Rear App. Bay).
 - 2. Cookson Thermiser insulated Rolling Door (Fitness Room, Yard Storage)
- C. Operation Cycles:
 - 1. Door components and operators capable of operating for not less than 1,000,000 cycles (Extreme 1024 Insulated Rolling Door), and not less than 50,000 cycles (Thermiser Insulated Rolling Door):
 - a. One operation cycle is complete when a door is opened from the closed position to

the fully open position and returned to the closed position:

- 1) Include tamperproof cycle counter.
2. Design doors of construction for high speed operation to achieve operational speed up to 24 inches per second open and up to 12 inches per second close.

2.3 MATERIALS

- A. Curtain: Air infiltration rate of less than .3 CFM/FT², validated by an independent testing agency. Test report required.
1. Fabrication:
 - a. Slats: (Gauge listed Exterior/Interior)
 - 1) Steel: [22/22] gauge, interconnected strip steel slats conforming to ASTM A-653, to provide security and long term sustainability. Total Slat Thickness: 15/16 inch (24 mm).
 - b. Insulation: 13/16" of insulation enclosed within the slat assembly with an R-value of 8.0 as calculated using the ASHRAE Handbook of Fundamentals
 - c. Flame Spread Index of 0 and a Smoke Developed Index of 10 as tested per ASTM E84.
 2. Finish:
 - a. CycleShield™ Ultra (RAL or Custom Color Selected by Architect): Ultra Powder Coat to be applied as a protective top coat over CycleShield finish. Top coat is a polyester based structured wear resistant clear powder coat of 2.5-3.5 mils cured film thickness. ASTM D-3363 pencil hardness: 2H or better. Tested per ASTM B117. Base coating of CycleShield [color as selected by Architect from manufacturer's standard color range, over 180 colors] [custom color as selected by Architect]
- B. Bottom Bar:
1. Configuration:
 - a. Structural Steel Angles: Minimum two 2x2x3/16 inch (50x50x3.2 mm) structural steel angles
 2. Finish: Match curtain slats
- C. Endlocks:
- Fabricate interlocking sections with malleable steel endlocks on alternate slats each secured two 1/4" high strength low profile rivets. Windlock material as required based on system description and manufacturer's recommendation. Provide windlocks as required to meet specified wind load.
- D. Guides:
1. Fabrication:
 - a. Thermal break required. Minimum 3/16" thick ASTM A36 bolted together with 1/2" fasteners to form a channel for the curtain to travel. Sealing, self lubricating UHMW anti-wear strips and block materials provided. The wall angle portion shall be continuous and fastened to the surrounding structure with either minimum 1/2" fasteners or welds, both on 36" centers maximum. The guides must be pre-notched to allow accurate insertion of pre-assembled coil box.
 2. Finish:
 - a. Powder Coat (Color Selected by Architect): Zirconium pre-treatment followed by baked-on polyester powder coat, [color as selected by Architect from manufacturer's standard color range, over 180 colors]; minimum 2.5 mils (0.065 mm) cured film thickness; ASTM D-3363 pencil hardness: H or better
- E. Shaft Assembly:
1. Barrel: Minimum 6" steel tubing capable of supporting curtain load with maximum deflection of 0.03 inches per foot (2.5 mm per meter) of width

2. Springless Design: System shall be designed to operate safely without the use of a counterbalance system. Door designed with springs is not acceptable. A Direct Connect Inertia Brake shall be mounted directly to the Drive Barrel shaft on the non-drive side to help prevent curtain free-fall. Engagement of the inertia brake shall disable the electrical control circuit. A chain driven inertia brake is not acceptable.
- F. Brackets:
 1. Configuration:
 - a. Constructed of steel not less than 5/16" thick and shall be bolted to the wall angle with minimum 1/2" fasteners. Both drive and tension brackets are to be furnished with precision ball bearings. The unitized barrel, bracket, and curtain unit to have a tension side access hatch feature to allow removal of barrel and bearing components for replacement or servicing.
 2. Finish:
 - a. Powder Coat (Stock Color): Zirconium treatment followed by a dark bronze baked-on polyester powder coat; minimum 2.5 mils (0.065 mm) cured film thickness.
- G. Pre-Assembled Coil Box: Factory pre-assembled coil box to contain fully wrapped curtain on barrel and structurally supported brackets. Welded Truss shall brace endplates together at the top and bottom with steel channel and flatbar diagonal bracing.
- H. Hood: [22 gauge galvanized steel] with reinforced top and bottom edges
 1. Finish:
 - a. Powder coating system to include a galvanized base coat consistent with ASTM A-653, Zirconium treated and bonderized for prime coat adhesion, with a [gray] [tan] [white] [standard manufacturer powder coat color] baked-on polyester powder coat, as selected by Architect, rust inhibiting paint with a minimum 2 mils (0.0508 mm) cured film thickness
- I. Perimeter Sealing: To provide environmental separation and help prevent infiltration
 1. Bottom Bar: Neoprene astragal extending full width of door bottom bar
 2. Guides: Replaceable vinyl strip on guides sealing against [fascia side] of curtain
 3. Lintel Seal: Double brush seal with EPDM sandwiched between the two brush seals at door header to impede air flow

2.4 OPERATIONS

- A. **High Cycle operator and Apex™ Pro SmartController System** consisting of SEW Eurodrive, TEFC, brake motor/reducer with separate wall mounted control panel:
 1. PLC controller with variable frequency drive featuring soft-start and soft-stop at both ends of limit travel. Doors without a frequency drive will not be accepted.
 2. Available in 60Hz at 208/230, 460, or 575V (3-Phase); 208/230V, 1-Phase; 120V, 1-Phase (1HP only); or 230V, 1 Ph, 50 Hz or 380V, 3 Ph, 50 Hz.
 - a. HP to be provided as recommended by manufacturer
 3. Motor mounted adjustable variable frequency drive; soft start and soft stop at both ends of limit travel. Operation that which does not include a frequency drive will not be accepted
 - a. Control Panel mounted VFD will not be accepted
 4. Control panel shall include
 - a. Circuit for activation of warning annunciator when closing
 - b. Non-resettable Cycle Counter
 - c. Lower position sensor
 - d. Absolute encoder for door position monitoring. Mechanical Limit Switches are not accepted
 5. UL Listed operator with B2 Controls with 1.5 Sec delay on reverse and timer to close
 6. Run Time Limiting timer
 7. Primary Fuse Block inside panel
 8. Circuit supplied for activation of warning annunciator when closing
 9. Non-resettable Cycle Counter
 10. Larger terminal blocks provided for high voltage /power supply connections

11. Angled terminal blocks to simplify external field wiring connections
12. High performance motor brake
13. Motor selection, gear reducer gear-set and size, with sprocket and roller chain selection based on manufacturer's recommendation, capable of starting and stopping from any position in either direction
14. Motor operator and control system shall be designed for a sustained continuous duty cycling.
15. SEW – Helical gear reducer
16. Synthetic extended temperature gear oil in reducer for increased operating temperature range.
17. Limit sprockets and drive sprocket with QD Bushing installed on Operator
18. Variable Frequency Drive with Braking Resistor
19. Limit Chain and Sprockets

B. Entrapment Protection:

The following protection safety devices provided standard:

1. **UL325-2010 compliant NEMA 4X photo eye** sensors consisting of a transmitter and receiver that are to be mounted within 6" (152.4 mm) of the floor, projecting an IR beam across the entire width of the door. Interruption of beam before door fully closes shall cause door to immediately stop downward travel and reverse direction to the fully opened position.
2. **SafetyGard™ Light Curtain Technology** consisting of an integral 6' (1828.8mm) high light curtain, if where an object breaks the plane of the light curtain, the door reverses to the open position. Doors provided without a light curtain will not accepted.

C. Control & Drive System Options:

1. Activation devices [motion detector] [additional photo eyes]
2. Sensing devices [wireless sensing edge] [additional photo eyes]
3. Annunciators [strobe]
4. Two-door interlocks
5. Long distance wiring
6. Additional monitoring controls

2.5 MATERIALS

- A. Vision Panels: 10x1-5/8 inch (254 x 41.28 mm) oval acrylic panes set with double sided foam glazing tape to provide ambient light and allow visibility of oncoming traffic. Refer to drawings for number and placement. Smaller vision panels are not acceptable.
- C. **Operator and Bracket Mechanism Cover:** [22 gauge stainless steel] sheet metal covers at coil area of unit. Finish matches door hood
- D. **Sloped Bottom Bar (Pitch Plate):** Tapered to match slope of opening and accommodate for irregular floor conditions. **Maximum pitch with standard bottom bars:** 1/8" per foot on doors with astragal or sensing edge; 1/16" per foot on doors without astragal or sensing edge. Maximum slope is 1/2" per foot.
- E. **Trim Package:** Minimum 16 gauge powder coated steel to match guides Custom-made to hide visible bolts, fasteners and other exposed hardware.
- F. **LED Light Kit :**
 - a. Include LED Light Kit in 15ft length. IP68 rated LED light kit to include guide mounting channel, power supply, controller and signal wire. LED lights to be solid red when door is closed, flash red when door is in motion and solid green when door is fully open.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Examine substrates upon which work will be installed and verify conditions are in accordance with approved shop drawings
- B. Coordinate with responsible entity to perform corrective work on unsatisfactory substrates
- C. Commencement of work by installer is acceptance of substrate

3.2 INSTALLATION

- A. General: Install door and operating equipment with necessary hardware, anchors, inserts, hangers and supports
- B. Follow manufacturer's installation instructions

3.3 ADJUSTING

- A. Following completion of installation, including related work by others, lubricate, test, and adjust doors for ease of operation, free from warp, twist, or distortion

3.4 CLEANING

- A. Clean surfaces soiled by work as recommended by manufacturer
- B. Remove surplus materials and debris from the site

3.5 DEMONSTRATION

- A. Demonstrate proper operation to Owner's Representative
- B. Instruct Owner's Representative in maintenance procedures

END OF SECTION 08 33 23

SECTION 08 35 00 FOUR-FOLD DOORS

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Four-Fold metal doors with surface mounted tube frames.

1.2 REFERENCES

- A. AISC - American Institute of Steel Construction.
- B. ASTM A513/A513M - Standard Specification for Electrical-Resistance-Welded Carbon and Alloy Steel Mechanical Tubing.
- C. ASTM A500/A500M - Standard Specification for Cold-Formed Welded and Seamless Carbon Steel Structural Tubing in Rounds and Shapes.
- D. ASTM A1011/A1011M - Standard Specification for Steel, Sheet and Strip, Hot-Rolled, Carbon, Structural, High-Strength Low-Alloy High-Strength Low-Alloy with improved formability and Ultra-High Strength.
- E. ASTM F2200 - Standard Specification for Automated Vehicular Gate Construction.
- F. UL 325 Standards.
- G. ANSI 2535 - Safety Alerting Standards.

1.3 SYSTEM DESCRIPTION

- A. Panels: Structural Steel Tube frame with sheet metal cladding and glass lites.
- B. Surface mounted structural steel tube frames at head and jambs.
- C. Operation: Overhead mounted electro-mechanical operator and safety devices.

1.4 SUBMITTALS

- A. Submit under provisions of Section 01 33 00.
- B. Product Data for each type of product specified consisting of manufacturer's technical Product Data and installation instructions for each type of door required, including data substantiating that products comply with requirements.
- C. Submittal Drawings showing fabrication and installation of Four-Fold metal doors including plans, elevations, sections, details of components, hardware, operating mechanism, and attachments to the other units of Work. Include wiring diagrams for coordination with electrical trade.

1.5 QUALITY ASSURANCE

- A. Doors shall be designed to withstand external or internal horizontal wind loads of 25 pounds minimum per square foot. The maximum allowable deflection shall not exceed 1/120 of the

span. Fiber stresses in main members shall be limited to 27,000 pounds per square inch. Steel frames shall be designed in accordance with the AISC Steel Construction Manual

- B. Door manufacturer shall have at least 10 years experience in manufacturing door type specified.
- C. Door installer to be certified by manufacturer.

1.6 DELIVERY, STORAGE AND HANDLING

- A. Store delivered materials and equipment in dry locations with adequate ventilation, free from dust and water, and so as to permit access for inspection and handling.
- B. Handle materials carefully to prevent damage.

1.7 WARRANTY

- A. Provide five year warranty, starting from date of substantial completion, under provisions of Section 01 77 00.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Door Engineering and Manufacturing, www.doorengineering.com, Model: FF300XT Series: Glazed.
- B. Bator Industry Doors, www.bator.com, Model: 238, Exterior Mount: Fully Glazed.
- C. Substitutions: Under provisions of Section 01 25 13.

2.2 MATERIALS

- A. Steel Tube: ASTM A513/A513M and ASTM A500/A500M
- B. Steel Sheets: Steel sheets of commercial quality, complying with ASTM A1011/A1011M hot-rolled steel sheet.
- C. Hardware: Manufacturer's standard components.
- D. Fasteners: Zinc-coated steel.

2.3 FOUR-FOLD DOORS

- A. Construction: Door framing shall be minimum 11-gauge structural steel tube with 14-gauge steel sheet on the exterior and interior faces. Sheetting shall be formed on the vertical edges with no visible welds on the interior or exterior panel faces. All frames and framing members shall be true to dimension and square in all directions, and no door shall be bowed, warped, or out of line, in the vertical or horizontal plane of the door opening by more than 1/8 inch in 20 feet. Exposed welds and welds which interfere with the installation of various parts shall be ground smooth and flush.

- B. Surface Mounted Tube Frame: Supply pre-hung tube frame system constructed of a minimum 6 inch x 4 inch x 1/4 inch tube steel, designed to anchor to masonry wall construction or weld to steel structure. All hinges, track supports and operator supports shall be factory attached.
- C. Factory Finish: Door Panels and Tube Frames shall be finished with manufacturer's standard PPG Spectracron epoxy primer and polyurethane top coat. Custom color as selected by Architect.
- D. Operator and operating hardware shall be powder-coated manufacturer's standard gray.
- E. Hardware: Hardware shall include guide tracks and brackets, trolleys, center guides, not less than three pairs of jamb and fold hinges per opening, and all bolts, nuts, fasteners, etc. necessary for complete installation and operation.
 - 1. All hardware, including hinges and trolleys, shall be bolted to the panel for easy removal for service or panel replacement.
 - 2. Doors up to 16' wide and under 30psf windload shall require no floor mounted supports, guides or tracks.
 - 3. Top tracks shall be adjustable on the end track hangers to allow for adjustment of the door panels in the open position and easily replaceable without removal of the door framing or operators.
 - 4. Track Hood: A full width hood shall be provided to cover the exterior track and trolleys.
- F. Hinges: Jamb hinges shall be dual shear and have two thrust bearings and two needle bearings. Fold hinges shall be stainless steel and be dual shear with two thrust bearings. All bearings shall be completely concealed within the hinge barrel and include grease zerks. All hinge pins shall be minimum 3/4" diameter hardened steel.
- G. Hinge Guards: Provide plastic guard at jamb hinges to prevent access through hinge space. Hinge guards to extend the full height of door.
- H. Weatherstripping: Material shall be adjustable and readily replaceable and provide a substantially weather-tight installation. Weatherstripping at center shall be 1/16" cloth inserted neoprene and include no exposed fasteners on the exterior face of the panel. Weatherstripping at sill shall include two 1/16" cloth inserted neoprene sweeps with an aluminum retainer. The retainer shall be attached to the door with adhesive.
- I. Perimeter Weatherstripping: Provide jamb and head weatherstripping of 1/16" cloth-inserted neoprene bulb (or closed cell neoprene).
- J. Vision Panels: Provide 1" insulated, tempered, vision panels of the size, shape and location as noted on the drawings. Glazing tint to match tint of tempered tinted glazing specified in Section 08 80 00.

2.4 OPERATOR

- A. Each Four-Fold door shall be operated by an overhead mounted electro-mechanical drive unit designed for high cycle operation. Operator consists of an electric motor, gear reducer, and rotating drive arm. The door shall be operated with connecting rods attached to the rotating drive arm on the operator and to control arms attached to the jamb door section and to the door lintel. The connecting rods shall be positive drive, keeping the door under firm control at all times. The connecting rods shall be fitted with spherical bearings and control arms shall be equipped with oil impregnated bronze bearings on polished shafts.
- B. Operator shall be instantly reversible, open and close rapidly and start and stop gradually.

Operator shall be adjustable to allow door to fully clear the opening. Operator shall automatically lock the door in the closed position. Operator shall be equipped with disengaging mechanism to convert to manual operation.

- C. Electric motor shall be of sufficient size to operate doors under normal operating conditions at no more than 75 percent of rated capacity. The motor shall be wound for three phase 208/230/480 VAC, 60 Hertz operation.
- D. Electric Controls: Controls shall be furnished by the door manufacturer and shall be complete for each door, and built in accordance with the latest NEMA standards. Incoming electrical shall be: 120VAC single phase.
1. Control panel assemblies shall be UL listed as per NFPA70.
 2. Controls shall include a programmable logic controller with digital message display or LED indicators. Controller shall include programmable close timers and programmable inputs/outputs.
 3. Controls shall include a variable frequency drive(s) with independent adjustment of the opening and closing speeds.
 4. Enclosures shall be NEMA 4 with disconnect switch.
 5. Pushbuttons (interior) for each door shall have one (1) momentary pressure three-button push-button station marked "OPEN", "CLOSE" and "STOP". Push button enclosure shall be NEMA 4.
 6. Master Control Station: Provide master control stations as indicated on the drawings, provide three push buttons for each individual door and additional button for future traffic signal control. Provide green insert buttons for "open", red insert buttons for "stop", and black insert button for "closing" action of the door operator. The control station shall be in a recessed NEMA type enclosure with a 1/8-inch-thick stainless steel panel face as detailed on the drawing.
 7. Limit switches shall be provided to stop the travel of the door in its fully open or fully closed position.
 8. Photo Eyes: Provide (1) interior, jamb mounted, light curtain type photo eyes, NEMA 4 rated. Photo eye shall cover from floor level to 72" above floor.
 9. Safety Edges: Provide 4-wire fail-safe electric safety edges on leading edge of all doors to reverse door upon contact with obstruction.
 10. Presence Sensor: Provide (1) interior, overhead mounted, presence sensor with pre-open and pre-close safety fields. Sensor shall be LZR-Widescan or equal. Provide (1) exterior, overhead mounted, NEMA 4 rated presence sensor with pre-open and pre-close safety fields. Sensor shall be LZR-i30 Laser /Scanner or equal.
 11. Timer Activation Loop Detectors: Provide "pulse on exit type" loop detector to activate auto close timer once loop has been activated and cleared, include hand/auto switch to deactivate timer. Coordinate installation of preformed loop with installer prior to exterior apron being poured. Saw cutting is not permitted.
 12. Warning Horn/Strobe: Provide warning light and strobe. Include outputs PLC to allow for activation while door is in motion both opening and closing, along with activation prior to closing. Include programmable "delay-to-close" timer which activates the warning horn for a set time, prior to the door closing.
 13. Radio controls:
 - a. Receiver Equivalent to Linear Model DRQ. Provide remote antenna for each receiver at each door. Remote antenna to be mounted at exterior of building.
 - b. The transmitter shall be equivalent to Linear Model DT with three buttons. The buttons on each transmitter should operate the front and rear doors of a single apparatus bay. Verify compatibility of transmitter with automatic gate controller specified in Section 32 31 30.
 - c. Provide a total of 20 transmitters.
 14. Wiring: Door manufacturer shall supply controls and components only. Electrical contractor shall install controls and furnish and install conduits and wiring for jobsite

power and control wiring.

PART 3 EXECUTION

3.1 INSTALLATION

- A. Install Four-Fold metal doors in strict accordance with the approved drawings. All door openings shall be completely prepared by the general contractor prior to the installation of the doors. Permanent or temporary electric wiring shall be brought to the door opening before installation is started and shall be completed so as not to delay the inspection test.
- B. Doors shall be set plumb, level, and square, and with all parts properly fastened and mounted. All moving parts shall be tested and adjusted and left in good operating condition.
- C. Affix permanent safety signage meeting the requirements of ANSI Z535.

3.2 ADJUSTING AND CLEANING

- A. Inspection of the doors and a complete operating test will be made by the installer in the presence of the general contractor or architect as soon as the erection is complete. Any defects noted shall be corrected. After door approval in the above test, the general contractor must assume the responsibility for any damage or rough handling of the doors during construction until the building is turned over to the owner and final inspection is made.
- B. Clean surfaces and repaint abraded or damaged finished surfaces to match factory-applied finish.

END OF SECTION 08 35 00

SECTION 11 90 00 MISCELLANEOUS EQUIPMENT

1. PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Cushioned Rubber Flooring.
- B. Gas Range.
- C. Range Hood and Blower.
- D. Microwave.
- E. Dishwasher.
- F. Refrigerator/Freezer.
- G. Bicycle Rack.
- H. Gear Grid Lockers.
- I. Ceiling Fan.
- J. Stainless Steel Corner Wall Guard.
- K. Wall Mounted Garden Hose Reel.
- L. Washer
- M. Dryer
- N. Television Mount
- O. Shop Room Equipment
- P. Turnout Dryer
- Q. Undercounter Refrigerator
- R. Coffee Maker
- S. Exterior Drinking Fountain
- T. Shower Curtain
- U. Hook to Backboard
- V. Slide Pole Landing Mat
- W. Slide Pole
- X. Extractor
- Y. Site Bench
- Z. Wood Slat Fence
- AA. BBQ
- BB. Floor Mat

CC. Map Board

DD. Epoxy on Slab

1.2 REFERENCES

- A. 2010 Americans with Disabilities Act (ADA) Standards for Accessible Design.
- B. CBC - California Building Code, (CCR) California Code of Regulations , Title 24, Part 2.

1.3 SUBMITTALS

- A. Submit product data and manufacturer's installation instructions for each item under provisions of District's Division 01 Requirements.

1.4 REGULATORY REQUIREMENTS

- A. Conform to CBC, California Building Code, (CCR), Title 24, Part 2 and the 2010 ADA Standards for Accessible Design for accessibility.

1.5 OPERATION AND MAINTENANCE DATA

- A. Submit operation and maintenance data under provisions of District's Division 01 Requirements.

1.6 WARRANTY

- A. Provide District with all warranty paperwork for all appliances.

2. PART 2 PRODUCTS

2.1 PRODUCTS

- A. Cushioned Rubber Flooring (Exercise Room and elevator cab):
https://commercial.tarkett.com/en_US/collection-C000399-triumph-multi-functional-and-sports-rubber-tile, Tarkett Triumph Rubber Tile - hammererd finish, SlideLock locking system, 3/8" thick 24"x24" with matching transition strip down to meet polished concrete slab at door threshold. Colors selected:
 - 1. Fitness Room - LB9 Rainstorm.
 - 2. Elevator Cab - KN2 Expedition.
 - 3. At Fitness Room only, 18" high wall base to be Tarkett Replay sheet product, color selected is Solid Night (see interior elevations for wall locations).
- B. Dual Fuel Range: Wolf Range Company, DF606DG, 60" dual fuel range, 6 burners and infrared dual griddle, complete with standard features. Full side panels and skirt. Accessories include: red knobs, front legs covers, filler trim, and stainless steel bezel.
- C. Range Hood and Blower: Wolf Range Company, 27" deep Model PW602718, with 1200 cfm internal blower model 814423, full width stainless steel duct cover flush to ceiling and low profile roof jack.
- D. Microwave: GE Model JES2251SJ, stainless steel. (Two required)
- E. Dishwasher: GE Model GLDT696DSS, stainless steel finish. Two (2) required.
- F. Refrigerator/Freezer: Samsung RF28HMEDBSR, stainless steel. (Three required)
- G. Bicycle rack: Landscape Structures Inc, Loop rack @ design 5/-4" long, 2-3/8" outside diameter pipe, Tender Tuff coating, finish color Grey. (One required).
- H. Gear Grid Lockers: Gear Grid, www.geargridcorp.com, 24" wide x 20" deep x72" height, Type A - Wall mounted (16 total), Type B -Free-Standing Tube Wall mounted (14 total). Each locker shall have name

plate, Three (3) hooks, top shelf, geardryer stainless steel jacket holder, gearhanger hanging rod, and Two (2) heavy duty hangers and door with padlock option. Color selected - Red Baron.

I. Ceiling Fan:

1. Y Lighting Rudolph Ceiling Fan by Minka Aire Fan, Product No. MAF613133 Coal finish with standard 12" downrod, available at www.ylighting.com , 3 blades, 52" diameter span, with control to sync and operate multiple fans within a single room (six required).
2. Provide Westinghouse Saf-T-Grid kit for attachment of ceiling fan to T-Bar ceiling grid.

J. Stainless Steel Corner Wall Guard: Korogard, Model GS10, stainless steel, 4' long with 1" corner legs with radius edges and top. (quantity of 21)

K. Wall Mounted Garden Hose Reel: Eley Hose Reel, Model 1041-100P. Standard capacity, perpendicular crank configuration with 100 feet poly hose (13 required). Provide Model 1043 at exterior location by the fire hydrant (1 required).

L. Washer: Whirlpool WFW95HEDW (two required).

M. Dryer: Whirlpool WED97HEDW, electric (two required).

N. Television Mount: Mounting Dream product; Wall mount MD2296 with full motion dual articulating arm (17 required). Ceiling mount XD1235 (one required).

O. Shop Room Equipment:

1. Workbench - Husky 8ft adjustable height solid wood top, model G9600-US1, <https://www.homedepot.com/p/Husky-8-ft-Adjustable-Height-Solid-Wood-Top-Workbench-G9600-US1/207131346> (one required).
2. 12-Drawer Tool Chest - Husky 66 inch long tool chest mobile workbench, gloss black with hardwood top, model 76812A24, <https://www.homedepot.com/p/Husky-66-in-W-12-Drawer-Deep-Tool-Chest-Mobile-Workbench-in-Gloss-Black-with-Hardwood-Top-76812A24/204398429> (one required).
3. 9-Drawer Tool Chest - Husky 46 inch long tool chest mobile workbench, gloss black with hardwood top, model 763089, <https://www.homedepot.com/p/Husky-46-in-W-x-18-1-in-D-9-Drawer-Tool-Chest-Mobile-Workbench-with-Solid-Wood-Top-7440946R/206839475> (one required).
4. Pegboard Panel - Grainger 32"H x 96"W steel pegboard panel with 1200 lb. load capacity, black, model 35-P-3296BK, https://www.grainger.com/product/WALL-CONTROL-Steel-Pegboard-Panel-with-14K274?cm_sp=Product_Details-_Products_Based_on_Your_Search_-_IDPPLARECS&cm_vc=IDPPLARECS (one required).

P. Turnout Dryer: Alliance Unimac, model UTGC6EDG44, 208V - 50/60 Hz 3Ph, 35 amp breaker (one required).

Q. Undercounter Refrigerator: GE stainless steel compact refrigerator, model GCE06GSHSB (one required).

R. Coffee Maker: Katum Bunn CWTF15-1 (one required in Conference Room 115).

S. Exterior Drinking Fountain: Elkay bi-level pedestral with pet fountain, model LK4420DB Grey (one required).

T. Shower Curtain: Inpro Corporation, www.inprocorp.com, Clickze Privacy System, product to be Shield by Panaz Antimicrobial Fabric, stainless steel rod and hook rings. Pattern to be selected from entire pattern range (five required for crew restroom shower and one at Decon shower).

U. Hook for Backboard: www.thelifeguardstore.com, spineboard mounting bracket SKU 10-994 (one required in apparatus bay).

MISCELLANEOUS EQUIPMENT

- Slide Pole Landing Mat: 2" thick, 32" diameter closed-cell, black neoprene impact absorbing mat as provided by McIntire Brass Works, Inc. Recess into concrete slab area. Mat shall be nonslip, durable, cleanable, and suitable for fire station slide pole landing application. Install mat securely and flush with adjacent finished floor, with no raised edges or trip hazards.
- V. Slide Pole: McIntire Model 19, <https://www.slidepole.com/model19.htm#> single piece cold-drawn brass pole, 2-1/2" diameter with 5/32" wall thickness with polished cast bronze ceiling trim ring. Install per drawing detail 9/A10.3 and custom size landing mat (see item 2.1.V above) recessed flush with slab.
- X. Extractor Washer: Washer is an existing equipment supplied by the owner, contractor shall uninstall unit with all accessory components at current station, store during construction activities and re-install at location indicated. Mount per product manufacturer recommendations.
- Y. Site Bench: www.commercialsitefurnishings.com/product/multi-logo-diamond-bench-5ft - 5' Two-Color Diamond Pattern Custom Logo Bench, Bench Color Granite, Second Color Sandstone, logo and lettering details will be provided by Fire District. (one required).
- Z. Wood Slat Fence: Accoya Product, <https://www.accoya.com/> See drawings for profile, size, attachment details. Untreated finish for natural weathering. Submit product information, installation instructions and warranty information for review.
- AA. BBQ: Genesis II S-435, https://www.homedepot.com/p/Weber-Genesis-II-S-435-4-Burner-Natural-Gas-Grill-in-Stainless-Steel-with-Built-In-Thermometer-and-Side-Burner-67006001/307575075?MERCH=REC_-pipinstock_-300172191_-307575075_-N (one required).
- BB. Floor Mat: Mats by Eaglemat.com, total of 6 mats with type, location and quantity as follows:
1. Soft Floor Drainage Mat, 3.2' x 5.3'. Room 124 mat with drainage holes and rooms 107 and 119 without drainage holes.
 2. Berber Supreme Entrance Mat, 3' x 5', charcoal with black edge color. one each at room 113 and 121.
 3. Rubber Scraper Logo Mat, 6' x 6', gray, horizontal layout with Fire District supplied logo graphic. one at room 101.
- CC. Map Board: US Markerboard, horizontal sliding unit, wall mounted 12' wide x 4'-6" tall. System includes fixed tack board back panel, 3 tracks with 1'- 4' wide panel per track. Outer front panel to be magnetic white board with marker tray and the 2 middle boards to be tack boards. Standard clear aluminum frame (one required in apparatus bay).
- DD. Epoxy on Slab: At second floor slide pole room slab, provide red epoxy <https://www.homedepot.com/p/Rust-Oleum-RockSolid-70-oz-Metallic-Cherry-Bomb-Garage-Floor-Kit-2-Pack-286896/205725416> with anti-slip grit additive <https://www.amazon.com/Rust-Oleum-60111-Rocksolid-Antislip-Additive/dp/B015EENBHK>.

3. Part 3 EXECUTION

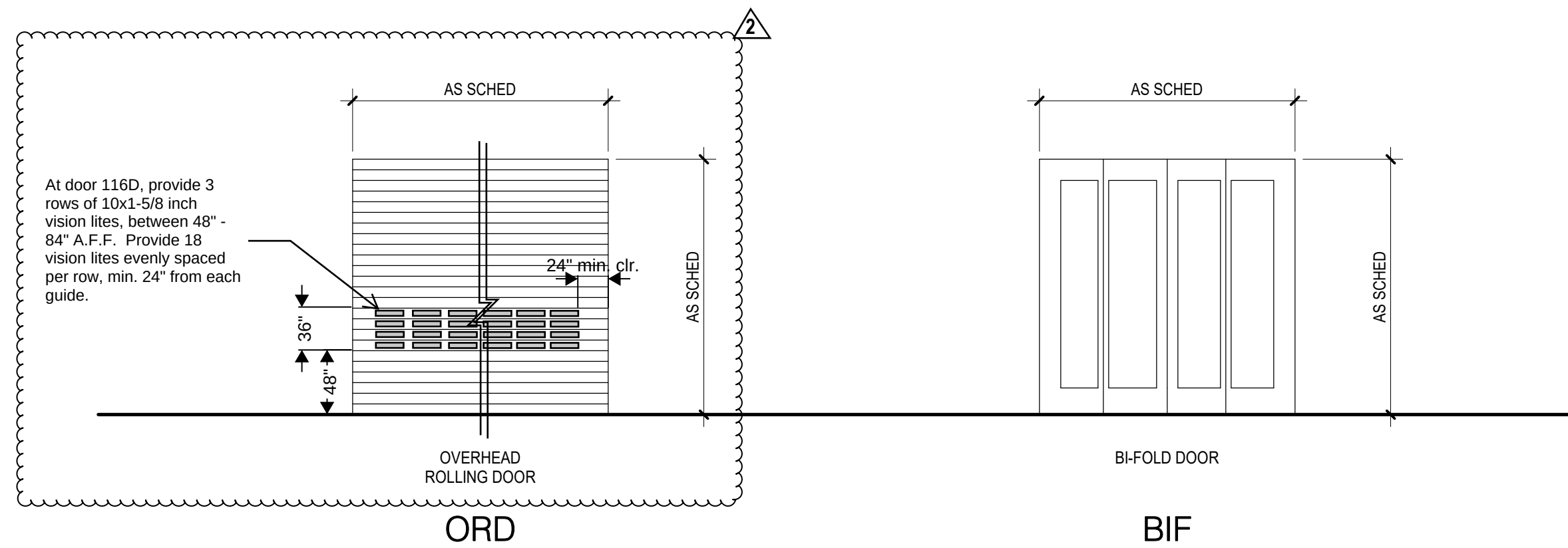
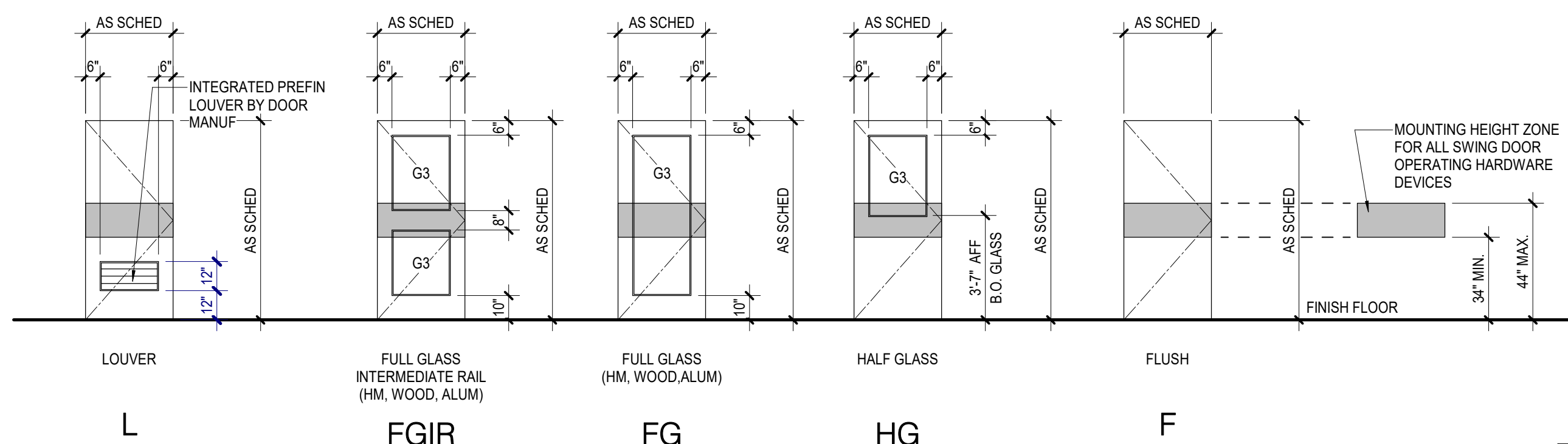
3.1 INSTALLATION

- A. Install equipment in accordance with manufacturer's printed instructions and as indicated on the drawings.
- B. Furnish all necessary hardware, anchors, inserts, connections, and embedded items necessary for proper installation. Coordinate with work of other sections.
- C. Supply all appliance and equipment warranty paperwork to owner for completion.

END OF SECTION

MISCELLANEOUS EQUIPMENT

11 90 00 - 4

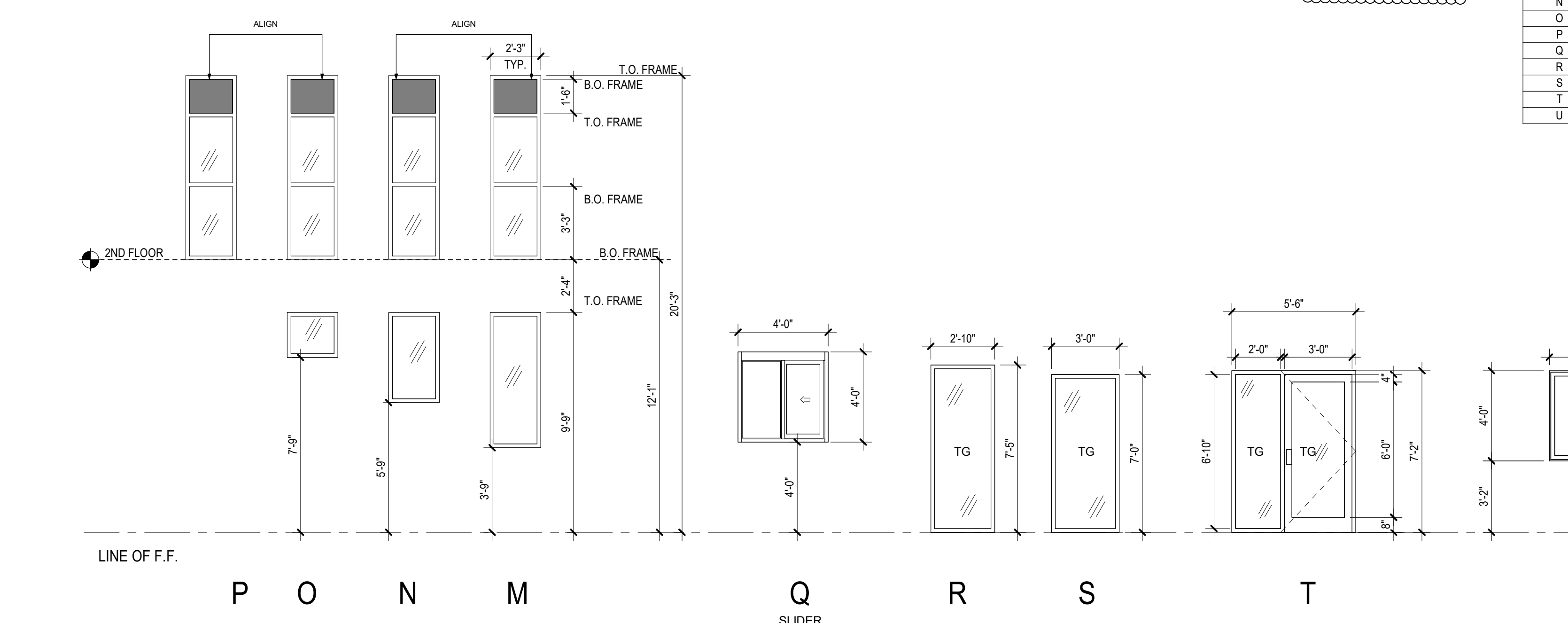
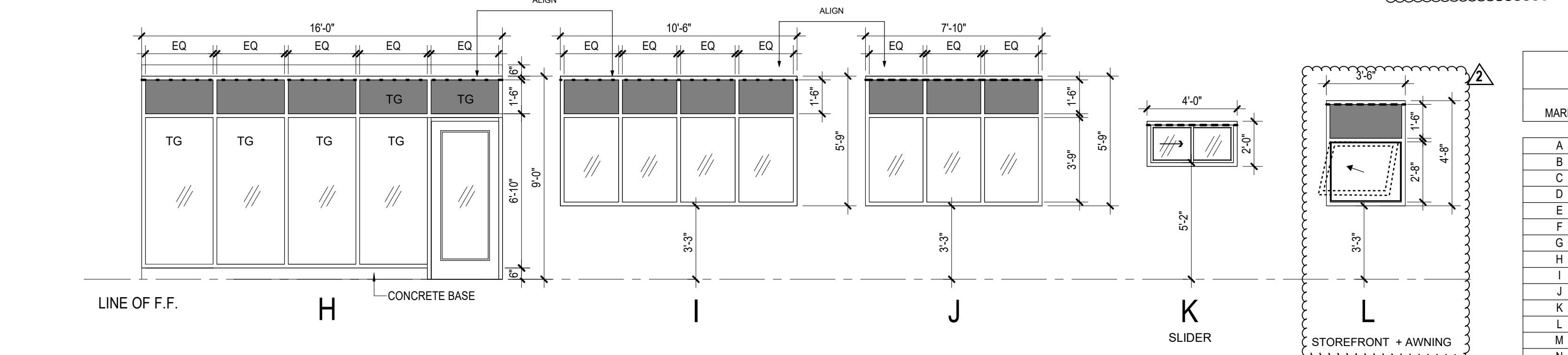
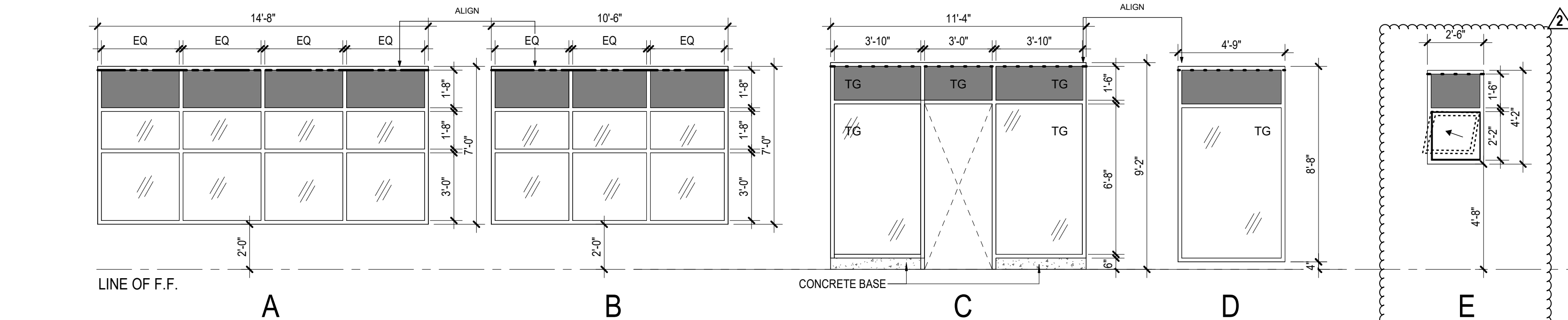


DOOR PANEL ELEVATION TYPES

SCALE: 1/4" = 1'-0"

DOOR FRAME ELEVATION TYPES

SCALE: 1/4" = 1'-0"



WINDOW LEGEND

SCALE: 1/4" = 1'-0"

DOOR SCHEDULE

MARK	PAIR	DOOR PANEL OPENING			DOOR FRAME		DETAILS				FIRE RATING LABEL	REMARKS	
		SIZE W x H	ELEV.	MATL.	ELEV.	MATL.	HEAD	JAMB	THRESHOLD	H.W.			
101A	SING	3'-0"	7'-0"	FG	ALUM	ALUM	18 / A8.2	19 / A8.2	15 / A8.2	1.0		CARD READER, PANIC/PUSH	
101B	SING	3'-0"	7'-0"	F	HM	HM	3 / A8.3	4 / A8.3	5 / A8.3	17.0		CARD READER	
102A	SING	3'-0"	7'-0"	F	WS	1	HM	3 / A8.3	4 / A8.3	5 / A8.3	18.0		
103A	SING	3'-0"	7'-0"	HG	HM	1	HM	3 / A8.3	4 / A8.3	5 / A8.3	15.0		
106A	SING	3'-0"	7'-0"	HG	HM	1	HM	3 / A8.3	4 / A8.3	5 / A8.3	19.0		
108A	SING	3'-0"	7'-0"	FG	ALUM	ALUM	2 / A8.2	19 / A8.2	15 / A8.2	1.0		CARD READER, PANIC/PUSH	
106C	SING	6'-0"	7'-0"	ORD	STL	STL	28 / A8.3	25 / A8.3	15 / A8.2				
107A	SING	3'-0"	7'-0"	HG	HM	1	HM	2 / A8.2	3 & 4 / A8.2	5 / A8.2	2.0		CARD READER, PANIC/PUSH
108A	SING	3'-0"	7'-0"	F	WS	1	HM	3 / A8.3	4 / A8.3	5 / A8.3	18.0		
109A	SING	3'-0"	7'-0"	F	HM	1	HM	2 / A8.2	3 & 4 / A8.2	5 / A8.2	2.0		PANIC/PUSH
110A	SING	3'-0"	7'-0"	F	HM	1	HM	3 / A8.3	4 / A8.3	5 / A8.3	4.0		
110B	SING	3'-0"	7'-0"	HG	HM	1	HM	3 / A8.3	4 / A8.3	5 / A8.3	4.0		
111A	SING	3'-0"	7'-0"	F	WS	1	HM	3 / A8.3	4 / A8.3	5 / A8.3	11.0		
112A	SING	3'-0"	7'-0"	F	WS	1	HM	3 / A8.3	4 / A8.3	5 / A8.3	14.0		
113A	SING	3'-0"	7'-0"	F	WS	1	HM	3 / A8.3	4 / A8.3	5 / A8.3	11.0		
114A	SING	3'-0"	7'-0"	F	WS	1	HM	3 / A8.3	4 / A8.3	5 / A8.3	13.0		
115A	SING	3'-0"	7'-0"	FG	ALUM	ALUM	8 / A8.3	9 / A8.3	20 / A8.3	16.0		CARD READER	
115B	SING	3'-0"	7'-0"	F	HM	1	HM	3 / A8.3	4 / A8.3	5 / A8.3	6.0		
116A	SING	3'-0"	7'-0"	F	HM	1	HM	2 / A8.2	3 & 4 / A8.2	5 / A8.2	2.0		PANIC/PUSH
116B	SING	3'-0"	7'-0"	HG	HM	1	HM	2 / A8.2	3 & 4 / A8.2	5 / A8.2	4.0		CARD READER
116C	PAIR	6'-0"	7'-6"	F	HM	1	HM	3 / A8.3	4 / A8.3	5 / A8.3	5.0		
116D	SING	28'-0"	14'-0"	ORD	STL	STL	28 / A8.3	25 / A8.3	15 / A8.2				
116E	PAIR	14'-0"	14'-0"	BIF	STL	STL	19 / A8.3	19 / A8.3	19 / A8.3				
116F	PAIR	14'-0"	14'-0"	BIF	STL	STL	19 / A8.3	19 / A8.3	19 / A8.3				
117A	SING	6'-0"	7'-0"	ORD	STL	STL	28 / A8.3	25 / A8.3	15 / A8.2				
118A	SING	3'-0"	7'-0"	F	HM	1	HM	3 / A8.3	4 / A8.3	5 / A8.3	7.0		
119A	SING	3'-0"	7'-0"	F	HM	1	HM	3 / A8.3	4 / A8.3	5 / A8.3	3.0		
120A	SING	3'-0"	7'-0"	F	HM	1	HM	3 / A8.3	4 / A8.3	5 / A8.3	10.0		
121A	SING	3'-0"	7'-0"	F	HM	1	HM	3 / A8.3	4 / A8.3	5 / A8.3	8.0		
122A	SING	3'-0"	7'-0"	F	HM	1	HM	3 / A8.3	4 / A8.3	5 / A8.3	3.0		
124A	SING	3'-0"	7'-0"	F	HM	1	HM	2 / A8.2	3 & 4 / A8.2	5 / A8.2	4.0		
201A	SING	3'-0"	7'-0"	F	WS	1	HM	3 / A8.3	4 / A8.3	5 / A8.3	22.0	1 HR	
201B	SING	3'-0"	7'-0"	FG	WS	1	HM	2 / A8.2	4 / A8.2	5 / A8.2	23.0		
203A	SING	3'-0"	7'-0"	F	WS	1	HM	3 / A8.3	4 / A8.3	5 / A8.3	24.0		
204A	SING	3'-0"	7'-0"	F	WS	1	HM	3 / A8.3	4 / A8.3	5 / A8.3	24.0	1 HR	
205A	SING	3'-0"	7'-0"	F	WS	1	HM	3 / A8.3	4 / A8.3	5 / A8.3	18.0		
207A	SING	3'-0"	7'-0"	F	WS	1	HM	3 / A8.3	4 / A8.3	5 / A8.3	24.0		
208A	SING	3'-0"	7'-0"	F	WS	1	HM	3 / A8.3	4 / A8.3	5 / A8.3	22.0	1 HR	
209B	SING	3'-0"	7'-0"	FG	WS	1	HM	2 / A8.2	4 / A8.2	5 / A8.2	23.0		
209C	SING	3'-0"	7'-0"	F	WS	1	HM	3 / A8.3	4 / A8.3	5 / A8.3	25.0		
210A	SING	3'-0"	7'-0"	F	WS	1	HM	3 / A8.3	4 / A8.3	5 / A8.3	22.0	1 HR	
211A	SING	3'-0"	7'-0"	F	WS	1	HM	3 / A8.3	4 / A8.3	5 / A8.3	22.0	1 HR	
212A	SING	3'-0"	7'-0"	F	WS	1	HM	3 / A8.3	4 / A8.3	5 / A8.3	20.0		
213A	SING	3'-0"	7'-0"	HG	HM	1	HM	3 / A8.3	4 / A8.3	5 / A8.3	21.0		
214A	SING	3'-0"	7'-0"	F	WS	1	HM	3 / A8.3	4 / A8.3	5 / A8.3	18.0		
215A	SING	3'-0"	7'-0"	F	WS	1	HM	3 / A8.3	4 / A8.3	5 / A8.3	12.0		
216A	SING	3'-0"	7'-0"	F	WS	1	HM	3 / A8.3	4 / A8.3	5 / A8.3	11.0		
217A	SING	3'-0"	7'-0"	F	HM	1	HM	3 / A8.3	4 / A8.3	5 / A8.3	12.0		
218A	SING	3'-0"	7'-0"	F	WS	1	HM	3 / A8.3	4 / A8.3	5 / A8.3	19.0		
221A	SING	3'-0"	7'-0"	FG	WS	1	HM	3 / A8.2	4 / A8.2	5 / A8.2	9.0		

DOOR SCHEDULE REMARKS

- PANIC EXIT HARDWARE
- NOT AN ENTRY DOOR, EXIT ONLY DOOR WITH LOCKING OPERABLE HARDWARE ON SWING-OUT SIDE OF DOOR
- NO LOCKING HARDWARE
- ELEC. DOOR OPENER
- ELEC. CONTROLLED ACCESS HARDWARE WITH CARD READER
- ELEC. CONTROLLED ACCESS HARDWARE WITH PUSH-BUTTON
- ELEC. CONTROLLED ACCESS HARDWARE, ROUGH-IN ONLY
- KEYED REMOVABLE CENTER MULLION
- CENTER ASTRAGAL
- 180 DEGREE SWING
- KONT. HINGE
- WEATHER-STRIP SEAL
- FIRE SMOKE SEAL
- SOUND SEAL
- PEEP HOLE
- DOOR BUZZER
- DOOR CHIME ON OPEN
- MANUAL HOLD-OPEN
- MAGNETIC HOLD-OPEN, CONNECT TO FIRE ALARM
- MAGNETIC HOLD-OPEN, CONNECT TO SECURITY SYSTEM
- INSULATED DOOR
- SOUND RATED DOOR ASSEMBLY, STC AS SPECIFIED
- WINDSTORM DOOR HARDWARE SHALL BE TESTED AS PART OF A COMPLETE DOOR OPENING ASSEMBLY. THE TESTED DOOR OPENING ASSEMBLY SHALL INCLUDE DOOR HARDWARE, THE ENTIRE DOOR OPENING, INCLUDING DOOR HARDWARE, SHALL BE BY DOOR MANUF.
- ACOUSTICAL GLASS TO MEET FIRE DOOR ASSEMBLY REQUIREMENTS FOR FIRE RATING INDICATED
- MANUAL PUSH-UP OPERATION
- ELEC. MOTOR OPERATION WITH KEY SWITCH CONTROL, KEY SWITCH ON ONE SIDE OF DOOR ONLY
- ELEC. MOTOR OPERATION WITH KEY SWITCH CONTROL, KEY SWITCH ON BOTH SIDES OF DOOR
- ELEC. MOTOR OPERATION WITH PUSH-BUTTON CONTROL, KEY SWITCH ON ONE SIDE OF DOOR ONLY
- PANIC EXIT PUSH-BUTTON ON ONE SIDE OF DOOR ONLY
- DD. AUTOMATIC OPEN ON FIRE ALARM ACTIVATION
- EE. AUTOMATIC CLOSE ON FIRE ALARM ACTIVATION
- FF. FAIL SAFE IN OPEN POSITION
- GG. FAIL SAFE IN CLOSED POSITION
- HH. MAXIMUM OCCUPANCY SIGNAGE NEAR DOOR
- SIGNAGE ON DOOR TO READ "NOT AN EXIT"

DOOR GENERAL NOTES

- THE FLOOR OR LANDINGS SHALL NOT BE MORE THAN 1/2 INCH LOWER THAN THE THRESHOLD OF THE DOORWAY. CHANGE IN LEVEL BETWEEN 1/4 INCH AND 1/2 INCH SHALL BE BEVELED WITH A SLOPE NO GREATER THAN ONE UNIT VERTICAL TO 2 UNITS HORIZONTAL.
- MAXIMUM OPERATING FORCE SHALL BE 5 POUNDS.
- DOOR HARDWARE SHALL BE OPERABLE WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST TO OPERATE.

WINDOW SCHED COLUMN REFERENCE GUIDE

- SYMBOL MARK: ALPHABETICAL DESIGNATION ASSIGNED TO SPECIFIC WINDOW AS SHOWN IN ELEVATION.
- SIZE: OVERALL WIDTH AND HEIGHT OF WINDOW IN FEET AND INCHES.
- MATERIAL: INDICATES MATERIAL FROM WHICH FRAME IS CONSTRUCTED, I.E., HM - HOLLOW METAL, WD - WOOD, AL - ALUMINUM, ETC.
- GLASS: DESIGNATES TYPE OF GLASS TO BE INSTALLED IN WINDOW, I.E., TG - TEMPERED GLASS, LAM - LAMINATED GLASS, WGL - WIRE GLASS, INSUL - INSULATING GLASS, ETC.
- DETAILS: REFERENCE NUMBERS FOR SECTIONS AS CONDITIONS EXIST AT THE WALL, SILL, OR HEAD OF FRAMES WITH ANY UNUSUAL DETAIL REFERENCED UNDER SEPARATE HEADING 56.
- WINDOW FRAME FIRE RATING: DESIGNATES ALPHABETICAL FIRE RESISTANCE RATING CLASSIFICATION LABEL REQUIRED FOR WINDOW FRAME WITH TIME PERIOD REQUIRED IN HOURS.
- REMARKS: REFERENCES SPECIAL, UNUSUAL OR ABSTRACT CONDITIONS WHICH EXIST AND ARE NOT COVERED IN SCHEDULE ITEMS 1 THRU 6 REFER TO REMARKS REFERENCE SCHEDULE FOR NUMERICAL DESIGNATIONS.

WINDOW NOTES:

- PROVIDE NAIL FIN ADAPTER FOR ALL ALUMINUM WINDOWS.
- PROVIDE PENETRATION FLASHINGS AT ALL EXTERIOR OPENINGS.
- PROVIDE VERTICAL LOUVER BLINDS AT ALL NON-BUNK ROOM EXTERIOR WINDOWS.
- PROVIDE HORIZONTAL LOUVER BLINDS AT BUNK ROOMS PER SPECS.

GLAZING TYPES:

TYPE GL1: INSULATED GLASS (EXTERIOR): ONE-INCH SEALED INSULATED UNIT CONSISTING OF AN EXTERIOR LITE OF 1/4" LOW-E TINTED TEMPERED FLOAT GLASS, 1/2" GAS FILLED AIR SPACE, AND 1/4" CLEAR TEMPERED FLOAT GLASS INTERIOR LITE

TYPE GL2: CLEAR TEMPERED GLASS: 1/4" CLEAR TEMPERED FLOAT GLASS

TYPE SP: CERAMIC COATED SPANDREL GLASS (EXTERIOR): ONE-INCH INSULATING SPANDREL UNIT CONSISTING OF 1/4" CLEAR, 1/2" AIR SPACE AND 1/4" CLEAR WITH SPANDREL COLOR TO BE SELECTED FROM MANUFACTURERS FULL CUSTOM COLOR RANGE.

MATERIAL / FINISH ABBREVIATIONS

ALUM = ALUMINUM
AN = ANODIZED
PF = PRE-FINISHED FACTORY FINISH
HM = HOLLOW METAL
PTD = PAINTED
STL = STEEL
TG = TEMPERED GLAZING
WV = WOOD, VENEER
WS = WOOD, SOLID CORE
Y = YES

RED SPANDREL GLASS (COLOR 1), SEE SPECS
LIGHT GREY SPANDREL GLASS (COLOR 2), SEE SPECS

WS-3 MOTORIZED ROLLER WINDOW SHADE - SEE MATERIAL SCHEDULE
WS-1 MANUAL ROLLER WINDOW SHADE - SEE MATERIAL SCHEDULE
WS-2 MANUAL ROLLER WINDOW BLACK-OUT SHADE - SEE MATERIAL SCHEDULE

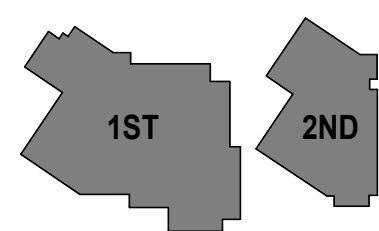


ARCHITECT PBK Architects, Inc.
SAN LUIS OBISPO
408 Higuera Street, Ste 100
San Luis Obispo, CA 93401
805-328-3076

FIRE STATION #44
COASTSIDE FIRE PROTECTION DISTRICT



BID SET



KEY PLAN



CLIENT		
COASTSIDE FIRE PROTECTION DISTRICT		
PROJECT NUMBER		
230137		
DATE		
03/13/2026		
DRAWN BY: KF/OS		
CHKD BY: AD		
REVISIONS		
#	DESCRIPTION	DATE
2	ADDENDUM 2	10/12/2026

DOOR & WINDOW SCHEDULES

A8.1

FIRST FLOOR FINISH SCHEDULE

ROOM NUM	ROOM NAME	FLOOR	BASE	NORTH WALL	EAST WALL	SOUTH WALL	WEST WALL	CEILING FINISH	PAINT FINISH	REMARKS
101	LOBBY	PC/WO-1	RB-1	P-1	P-4	P-1	P-1	WP-1	ESPT	C
102	RR 1	PT-1	PT-2	PT-2P-1	PT-2P-1	PT-2P-1	PT-2P-1	P-5	SGPT	F, G, H
103	CAPT. OFFICE	PC	RB-1	P-1	P-1	P-1	P-1	P-5	ESPT	
104	OFFICE	PC	RB-1	P-1	P-1	P-1	P-1	ACT	ESPT	
105	ELEV.	PC	RB-1	PF	PF	PF	PF	PF	PF	
106	FITNESS	RF-1	RB-2	P-1/MIRROR	P-1	P-1/MIRROR	P-1	ACT	SGPT	B, I, N
107	STAIRWAY 1	RF-3	RB-1	P-1	P-1	P-1	P-1	P-5	SGPT	
108	RR 2	PT-1	PT-2	PT-2P-1	PT-2P-1	PT-2P-1	PT-1P-1	P-5	SGPT	A, B, F, G, H
109	ELECT	SC	CB	P-1	P-1	P-1	P-1	P-5	SGPT	
110	HALLWAY	PC	RB-1	P-1	P-1	P-1	P-1	ACT	ESPT	
111	CUST	SC	RB-1	FRPP-1	FRPP-1	P-1	P-1	OPEN	-	D
112	ELEV. MACH.	SC	RB-1	P-1	P-1	P-1	P-1	OPEN	-	
113	STOR	PC	RB-1	P-1	P-1	P-1	P-1	OPEN	-	
114	TELECOM	PC	RB-1	P-1	P-1	P-1	P-1	OPEN	-	
115	TRAINING CLASSROOM	CPT-1	RB-1	P-1	P-1	P-1	P-1	WF-1P-6	ESPT/FFT	B, C, O, P, U
116	APPARATUS BAY	PC	MB-1	P-1	P-1	P-1	P-1	P-5	SGPT	J, K
117	YARD ST	SC	CB	P-1	P-1	P-1	P-1	OPEN	-	
118	DECON	PC	MB-1	FRPP-1	SS/FRPP-1	FRPP-1	FRPP-1	P-5	SGPT	D, E
119	EMS STOR	PC	MB-1	P-1	P-1	P-1	P-1	P-5	SGPT	
120	TURNOUT	PC	MB-1	P-1	P-1	P-1	P-1	P-5	SGPT	
121	COMP	PC	MB-1	P-1	P-1	P-1	P-1	P-5	SGPT	
122	SHOP	PC	MB-1	P-1/PEG	P-1	P-1	P-1	P-5	SGPT	J, K, R
123	HOSE DRY STOR	PC	MB-1	P-1	P-1	P-1	P-1	P-5	SGPT	
124	FIRE RISER	SC	CB	P-1	P-1	P-1	P-1	OPEN	-	
125	VESTIBULE	PC	RB-1	P-1	P-1	P-1	P-1	OPEN	-	

SECOND FLOOR FINISH SCHEDULE

ROOM NUM	ROOM NAME	FLOOR	BASE	NORTH WALL	EAST WALL	SOUTH WALL	WEST WALL	CEILING FINISH	PAINT FINISH	REMARKS
201	BAT. CHIEF DORM	PC/RR	RB-1	P-1	P-1	P-1	P-2	ACT	ESPT	
202	BALCONY	DCS	-	-	-	-	-	-	-	L
203	BC RR	PT-1/PT-3	PT-2/MB-1	PT-2P-1	PT-2P-1	PT-2P-1	PT-2P-1	P-5	SGPT	F, G, H, S
204	DORM 1	PC/RR	RB-1	P-1	P-1	P-1	P-2	ACT	ESPT	
205	RR	PT-1/PT-3	PT-2/MB-1	PT-2P-1	PT-2P-1	PT-2P-1	PT-2P-1	P-5	SGPT	F, G, H, S
206	ELEV	RF-2	RB-1	PF	PF	PF	PF	PF	PF	
207	CAPTAIN RR	PT-1/PT-3	PT-2P-1	PT-2P-1	PT-2P-1	PT-2P-1	PT-2P-1	P-5	SGPT	F, G, H, S
208	BALCONY	DCS	-	-	-	-	-	-	-	L
209	CAPTAIN DORM	PC/RR	P-1	P-1	P-1	P-1	P-2	ACT	ESPT	
210	DORM 2	PC/RR	P-1	P-1	P-1	P-1	P-2	ACT	ESPT	
211	DORM 3	PC/RR	P-1	P-1	P-1	P-1	P-2	ACT	ESPT	
212	LAUNDRY	PC	P-1	P-1	FRPP-1/P-1	FRPP-1/P-1	P-1	P-5	SGPT	
213	HALLWAY	PC	P-1	P-1	P-1	P-1	P-1	ACT	ESPT	
214	ACCESSIBLE RR	PT-1/PT-3	PT-2/MB-1	PT-2P-1	PT-2P-1	PT-2P-1	PT-2P-1	P-5	SGPT	F, G, H, S
215	VEST	PC	RB-1	P-1	P-1	P-1	P-1	OPEN	-	
216	STOR 3	PC	RB-1	P-1	P-1	P-1	P-1	OPEN	-	
217	PANTRY	PC	RB-1	P-1	P-1	P-1	P-1	P-5	SGPT	
218	KITCHEN	PC	RB-1	P-1/CT-1	P-1/CT-1	P-1	P-1	P-5/FFT	ESPT/FFT	B, C, M, H, U
219	DINING	PC	RB-1	P-1	P-1	P-1	P-1	OPEN, P-6	PPT	C, U
220	DAYROOM	PC	RB-1	P-1	P-1	P-1	P-1	P-6/WF-1	ESPT/FFT	A, C, U
221	DECK	DCS	-	-	-	-	-	-	-	L
222	SLIDE POLE DECK	EP	RB-1	P-1	P-1	P-1	P-1	P-5	SGPT	

MAT./FIN. ABBREVIATIONS

P = PAINTED
ESPT = EGG SHELL PAINT
SGPT = SEMI-GLOSS PAINT
FFT = FLAT PAINT
ACT = ACOUSTICAL CEILING TILE
FRP = FIBER REINFORCED PANELS
SC = SEALED CONCRETE
PC = POLISHED CONCRETE
DCS = DECK COVERING SYSTEM
PT = PORCELAIN TILE
CT = CERAMIC TILE
RF = RUBBER FLOORING
CPT = CARPET TILE
WO = WALK OFF MAT
EP = EPOXY
RB = RUBBER BASE
MB = METAL BASE
CB = CONCRETE BASE
AWP = ACOUSTIC WOOD PANEL
SS = STAINLESS STEEL
PF = PREFABRICATED WALLS AND CEILING
RR = RUNNER RUG

FINISH SCHEDULE REMARKS

A. REFER TO FLOOR FINISH PLANS
B. REFER TO INTERIOR ELEVATIONS
C. REFER TO CEILING PLANS
D. FRP WAINSCOT - SEE INTERIOR ELEVATIONS FOR HEIGHTS AND LOCATIONS
E. STAINLESS STEEL AT TOP OF SINK TO BOTTOM OF CASEWORK
F. 84" PORCELAIN TILE WAINSCOT
G. STAINLESS STEEL COVE BASE TRIM (MT-1)
H. STAINLESS STEEL FINISHING AND EDGE PROTECTING TRIM (MT-2)
I. MIRRORS - SEE SPEC.
J. METAL BASE AT CASEWORK
K. QUARRY TILE BASE AT WALLS
L. DEX-O-TEX FINISH ON SEALED CONCRETE - SEE SPEC
M. PROVIDE FULL HEIGHT TILE BACKSPLASH BETWEEN UPPER AND LOWER CASEWORK PER ELEVATIONS
N. 18" RUBBER BASE (RB-2)
O. MARKERBOARD - SEE SPEC
P. TV MOUNT (N.I.C.) OR DIGITAL MARKERBOARD (N.I.C.) - SEE SPEC
Q. WALL MOUNTED LOOKERS - SEE SPEC
R. PEG BOARD AND PEG BOARD BACKSPLASH - SEE SPEC
S. RESTROOM SHOWERS TO HAVE TILE ON WALLS (FULL HEIGHT) AND CEILINGS, SEE FINISH AND MATERIAL SCHEDULES
T. PROVIDE PAINTED STUCCO CEILINGS AT COVERED PATIO AREA PER REFLECTED CEILING PLAN
U. PAINT ALL EXPOSED CEILING-RELATED ITEMS FLAT BLACK P-6, INCLUDING BUT NOT LIMITED TO: STRUCT. MEMBERS, STRUCT. DECK, DUCTWORK, DIFFUSERS, PIPING, CONDUIT, EQUIP. HOUSINGS, LIGHT FIXTURE HOUSINGS, CABLE SUPPORTS, CABLE TRAYS, EQUIP. SUPPORTS, HANGERS

MATERIAL SCHEDULE

ITEM	DESCRIPTION	MANUFACTURER	SERIES	COLOR	SIZE	SPEC. SEC.	REMARKS
ACT-1	ACOUSTICAL CEILING TILE, TYPE 1	ARMSTRONG	ULTIMA	WHITE	2' X 4'	09 51 13	
AR-1	AREA RUGS	INTERFACE	ICE BREAKER	105771 GRANITE	20" X 20"	09 68 13	TACTILE INSTALLATION SYSTEM. SEE FLOOR FINISH PLANS FOR SIZES.
AWP-1	WOOD VENEER CEILING PANEL, TYPE 1	ARMSTRONG	WOODWORKS LINEAR VENEERED PANELS	PLAIN SLICE WALNUT (NWN)	NOMINAL 6" PLANKS		ADD MATCHING TRIM TO EXPOSED AREAS.
CPT-1	CARPET TILE, TYPE 1	INTERFACE	ICE BREAKER	105771 GRANITE	20" X 20"	09 68 13	INSTALLATION: NON DIRECTIONAL
CT-1	CERAMIC TILE	ARIZONA TILE	PALOMA LONG HEX	COTTON, MAPEI GROUT - 02 PEWTER	4X8 POLISHED, 9MM THICK	09 30 12	BACKSPLASH TILE
DCS	DECK COVERING SYSTEM	DEX-O-TEX	WEATHERWARE	4413 DOLPHIN GRAY		11 90 00	DECK AND BALCONY FLOOR SYSTEM
FRP-1	FIBERGLASS REINFORCED PANELS	MARLITE	STANDARD FRP - CLASS C	PEBBLED - BRIGHT WHITE	4' X 8'	09 77 33	SEE ELEVATIONS FOR HEIGHTS. SEE DETAILS 16.21A/10.2
MC-1	METAL COUNTERTOPS	INPRO		STAINLESS STEEL	1-1/2" 90 DEGREE WINGS	06 41 16	
MCG-1	METAL CORNER GUARDS, TYPE 1	SCHLUTER	DILEX-HKS COVE	STAINLESS STEEL/CLASSIC GREY	HKS24U10011GS	11 90 00	
MT-1	METAL FINISH TRIM, TYPE 1	SCHLUTER	JOLLY	BRUSHED STAINLESS STEEL	J100EB	09 30 15	
P-1	PAIN - FIELD, TYPE 1	SHERWIN WILLIAMS	N/A	SW 7064 PASSIVE	N/A	09 90 00	SEE FLOOR FINISH PLANS, FINISH SCHEDULE & FINISH SCHEDULE REMARKS
P-2	PAINT - ACCENT, TYPE 1	SHERWIN WILLIAMS	N/A	SW 9163 TIN LIZZIE	N/A	09 90 00	SEE FLOOR FINISH PLANS, FINISH SCHEDULE & FINISH SCHEDULE REMARKS
P-3	PAINT - ACCENT, TYPE 2 (DOOR TRIM)	SHERWIN WILLIAMS	N/A	SW 7068 GRIZZLE GRAY	N/A	09 90 00	SEE FLOOR FINISH PLANS, FINISH SCHEDULE & FINISH SCHEDULE REMARKS
P-4	PAINT - ACCENT, TYPE 3	SHERWIN WILLIAMS	N/A	SW 7600 BOLEERO	N/A	09 90 00	SEE FLOOR FINISH PLANS, FINISH SCHEDULE & FINISH SCHEDULE REMARKS
P-5	PAINT - CEILING, TYPE 1	SHERWIN WILLIAMS	N/A	SW 7005 PURE WHITE	N/A	09 90 00	SEE FLOOR FINISH PLANS, FINISH SCHEDULE & FINISH SCHEDULE REMARKS
P-6	PAINT - CEILING, TYPE 2	SHERWIN WILLIAMS	N/A	SW 7069 IRON ORE	N/A	09 90 00	SEE FLOOR FINISH PLANS, FINISH SCHEDULE & FINISH SCHEDULE REMARKS
PL-1	CONCRETE FLOORING, POLISHED PLASTIC LAMINATE, TYPE 1	ARBORITE	ARTISAN WALNUT (AW)	W2002 CLASSIC ARTISAN WALNUT		03 35 10 06 41 16	SEE INTERIOR ELEVATIONS FOR LOCATIONS
PL-2	PLASTIC LAMINATE, TYPE 2	ARBORITE	ARTISAN WALNUT (AW)	W2005 NOBLE ARTISAN WALNUT		06 41 16	SEE INTERIOR ELEVATIONS FOR LOCATIONS
PT-1	PORCELAIN TILE, TYPE 1	ARIZONA TILE	MORE WOOD	NOCE, MAPEI GROUT - 07 CHOCOLATE	8X32 RT1 ANTI-SLIP, 10MM THICK	09 30 14 & 09 30 15	SEE FLOOR FINISH PLANS
PT-2	PORCELAIN TILE, TYPE 2	ARIZONA TILE	THEMAR	VENATO GOLD, MAPEI GROUT - 02 PEWTER	12X24 MATTE, 10MM THICK	09 30 15	
PT-3	PORCELAIN TILE, TYPE 3	ARIZONA TILE	FRAGMENT (FRAY)	GRAY, MAPEI GROUT - 02 PEWTER	2X2 MOSAIC, 9MM THICK	09 30 14	SEE FLOOR FINISH PLANS
RB-1	RUBBER BASE, TYPE 1	JOHNSONITE	TRADITIONAL COVED WALL BASE	63 BURNT UMBER	4"	09 65 00	
RB-2	RUBBER BASE, TYPE 2	TARKETT JOHNSONITE	REPLAY	507 NIGHT	48" ROLL	09 65 00	
RF-1	RUBBER FLOORING, TYPE 1	TARKETT JOHNSONITE	TRIUMPH	L89 RAINSTORM	24" X 24" SLIDELOCK TILE	09 65 00	
RF-2	RUBBER FLOORING, TYPE 2	TARKETT JOHNSONITE	TRIUMPH	KM1 RAINY DAY	24" X 24" SLIDELOCK TILE	09 65 00	
RF-3	RUBBER STAIR TREAD, TYPE 1	TARKETT JOHNSONITE	ANGLE FIT RUBBER STAIR TREAD W/ INTEGRATED RISER	HAMMERED 20 CHARCOAL 40 BLACK RUBBER INSERT	5' LENGTH	09 65 00	
RSN-1	RUBBER STAIR NOSING, TYPE 1	TARKETT JOHNSONITE	RUBBER INSERT	40 BLACK		09 65 00	
SS-1	SOLID SURFACE, TYPE 1	CORIAN	SOLID SURFACE	ASH AGGREGATE		06 41 16	
SS-2	SOLID SURFACE, TYPE 2	CORIAN	SOLID SURFACE	ASH CONCRETE		06 41 16	
SS-3	SOLID SURFACE, TYPE 3	CORIAN	SOLID SURFACE	PEARL GRAY		06 41 16	WINDOW TRIM
WO-1	WALK-OFF MAT	BALCO	FUR-A ABRASIVE TREAD, VINYL HINGE	SEE FLOOR FINISH PLANS		12 48 43	
WS-1	MOTORIZED ROLLER WINDOW SHADE	MECHO	ECOVEIL 1550 SERIES (3% OPEN)	SHADOW GREY		12 24 13	
WS-2	MANUAL ROLLER WINDOW SHADE	MECHO	ECOVEIL 1550 SERIES (3% OPEN)	SHADOW GREY		12 24 13	
WS-3	MANUAL ROLLER WINDOW SHADE, BLACKOUT	MECHO	CHELSEA BLACKOUT 0250 SERIES	STEEL/GRAPHITE		12 24 13	

GENERAL FINISH NOTES

1.1 REFER TO INTERIOR ELEVATIONS, AND SPECIFICATIONS FOR FINISH INFORMATION AND ADDITIONAL INFORMATION ON SUBSTRATE PREP WORK & REQUIRED TESTING PRIOR TO FINISHES INSTALLATION.

1. ALL SCHEDULED DIRECTIONS (NORTH, EAST, SOUTH, WEST) ARE PER PLAN DIRECTIONS, NOT TRUE COMPASS DIRECTIONS.

1.2 NOTIFY ARCHITECT OF ANY IN THE FIELD DISCREPANCIES PRIOR TO FINISHES INSTALLATION.

1.3 GENERAL CONTRACTOR & SUB-CONTRACTORS TO VERIFY LEAD TIMES ON ALL PRODUCTS IMMEDIATELY UPON PROJECT AWARDMENT. SOME PRODUCTS REQUIRE 6-12 WEEKS LEAD TIME AND SUBSTITUTIONS ARE NOT ALLOWED, UON.

AGENCY/CODE REQUIREMENTS

2.1 INTERIOR WALL AND CEILING FINISHES SHALL COMPLY WITH 2022 CBC SECTION 803, BE CLASSIFIED IN ACCORDANCE WITH ASTM E84 OR UL 723, TESTED IN ACCORDANCE WITH NFPA 286 AND TABLE 803.11.

2.2 INTERIOR FLOOR FINISH AND COVERINGS SHALL COMPLY WITH 2022 CBC SECTION 804, BE TESTED IN ACCORDANCE WITH NFPA 253, COMPLY WITH ASTM E648 & SHALL HAVE A SPECIFIC OPTICAL DENSITY SMOKE RATING NOT TO EXCEED 450 PER ASTM E662.

ACCESSORIES

3.1 ALL WALLS TO RECEIVE CORNER GUARD CG1 @ 90° OUTSIDE CORNERS OF WING WALLS. SEE 8/A9.03, CG2 & CG3 @ 90° OUTSIDE CORNERS, SEE 9/A9.03. INSTALL CORNER GUARDS DIRECTLY ABOVE THE WALL BASE.

3.2 WHERE OCCURS, WALLS SHALL RECEIVE WALL PROTECTION WP1, SEE 15/A9.03. TOILET ROOMS SHALL RECEIVE WP2, SEE 14/A9.03.

3.3 48"W FRP WAINSCOT - SEE INTERIOR ELEVATION FOR HEIGHTS

3.4 28"H STAINLESS STEEL BACKSPLASH AT DECON SINK

3.5 ALL WINDOWS SHALL RECEIVE WINDOW TREATMENT WT1, SEE 7/A9.03, REFER TO REFLECTED CEILING PLANS FOR TYPES PER LOCATION.

3.6 ALL RESTROOM WALL TILE BASE SHALL RECEIVE MTL3 AT WALL PROTECTION CONNECTION.

3.7 ALL ELECTRICAL DEVICE COVERS ARE TO BE WHITE U.N.O.

CASEWORK

4.1 REFER TO THE GENERAL NOTES FOR CASEWORK DETAIL 1/A10.4

4.2 ALL CASEWORK NOT IN RESTROOMS SHALL RECEIVE **PL-1** & **SS-1**, REFER TO INTERIOR ELEVATIONS.

4.3 ALL KITCHEN, APPARATUS BAY, AND SHOP CASEWORK SHALL RECEIVE **PL-1** AND **MC-1** UNO., REFER TO INTERIOR ELEVATIONS.

4.4 ALL CASEWORK IN RESTROOMS SHALL RECEIVE **PL-2** & **SS-2**, REFER TO INTERIOR ELEVATIONS.

4.5 FILLER STRIPS ARE REQUIRED AT ENDS OF CABINETS WHERE CABINETS ARE ADJACENT TO WALLS.

4.6 ALL INTERIORS OF ENCLOSED CABINETS INCLUDING SHELVING SHALL RECEIVE MELAMINE FINISH, UON. ALL INTERIORS OF OPEN CABINETS INCLUDING SHELVING SHALL MATCH THE EXTERIOR LAMINATE FINISH, UON.

4.7 REFER TO CASEWORK SCHEDULE ON DETAIL 20/A10.05 FOR LOCK TYPE AND LOCATION.

CEILING

5.1 ALL SCHEDULED CEILING HEIGHTS ARE FROM THE PRIMARY FLOOR LEVEL WITHIN THE ROOM AND OR SPACE, AND ARE NOT FROM AN ELEVATED FLOOR LEVEL, AND ARE NOT FROM A RECESSED FLOOR LEVEL.

5.2 REFER TO REFLECTED CEILING PLANS FOR CEILING HEIGHTS

FLOORING
6.1 REFER TO FINISH FLOOR PLANS.

6.2 TOP SET WALL BASE SHALL BE B1, UON. SEE 14/A9.03. REFER TO INTERIOR ELEVATIONS, FINISH SCHEDULE & FLOORING FINISH PLANS. @ ALL SINK LOCATIONS PROVIDE WELD / CLEAR SEALANT @ TOP-SET WALL BASE TRANSITION TO FLOORING.

6.2 FLOORING & WALL BASE SHALL CONTINUE UNDER ADA COMPLIANT SLOPED & INTEGRAL TOE-KICK SINK CABINETS & WALL HUNG COUNTER. REFER TO INTERIOR ELEVATIONS.

6.4 ALL RESTROOM TRANSITIONS FROM FLOOR TO WALL SHALL RECEIVE **MT-1**.

1. ALL FLOORING TRANSITIONS AT DOORS SHALL BE LOCATED UNDER THE DOOR IN THE CLOSED POSITION, U.N.O.
2. PROTECT ALL FINISHED FLOORING SURFACES FROM DAMAGE DURING ALL CONSTRUCTION PHASES.

6.5 ALL RESTROOM TRANSITIONS FROM CERAMIC/PORCELAIN WALL TILE TO GYPSUM BOARD SHALL RECEIVE FINISH METAL TRIM **MT-2**

6.6 REFER TO TYPICAL FLOORING TRANSITION DETAILS FOR FLOORING MATERIAL TRANSITIONS.

PAINT

7.1 ALL WALLS IN THE ENTIRE PROJECT AREA'S SCOPE OF WORK SHALL RECEIVE PAINT **P-1**, UON. REFER TO PAINT FINISH PLANS. WHERE AREAS ARE NOT IN THE PROJECT SCOPE OF WORK, TERMINATE PAINT AT THE NEAREST INSIDE/OUTSIDE CORNER.

7.2 PAINT ALL EXPOSED CEILING-RELATED ITEMS, INCLUDING BUT NOT LIMITED TO, STRUCT. MEMBERS, STRUCT. DECK, DUCTWORK, DIFFUSERS, PIPING, CONDUIT, EQUIP. HOUSINGS, LIGHT FIXTURE HOUSINGS, CABLE SUPPORTS, CABLE TRAYS, EQUIP. SUPPORTS, HANGERS

7.3 PAINT ALL EXPOSED CEILING-RELATED ITEMS FLAT BLACK **P-6**, INCLUDING BUT NOT LIMITED TO, STRUCT. MEMBERS, STRUCT. DECK, DUCTWORK, DIFFUSERS, PIPING, CONDUIT, EQUIP. HOUSINGS, LIGHT FIXTURE HOUSINGS, CABLE SUPPORTS, CABLE TRAYS, EQUIP. SUPPORTS, HANGERS

7.4 PAINT ALL EXPOSED CEILING-RELATED ITEMS WHITE **P-5**, INCLUDING BUT NOT LIMITED TO, STRUCT. MEMBERS, STRUCT. DECK, DUCTWORK, DIFFUSERS, PIPING, CONDUIT, EQUIP. HOUSINGS, LIGHT FIXTURE HOUSINGS, CABLE SUPPORTS, CABLE TRAYS, EQUIP. SUPPORTS, HANGERS

7.5 DO NOT PAINT ACOUSTICAL STRUCT. DECK

7.6 ALL METAL DOORS & FRAMES & WINDOW FRAMES TO RECEIVE IN SEMI-GLOSS FINISH, UON.

7.7 ALL CEILINGS SHALL RECEIVE EGG-SHELL FINISH, UON.

7.8 TOILET ROOM WALLS & CEILINGS SHALL RECEIVE SEMI-GLOSS FINISH, UON.

7.9 ALL WALLS SHALL RECEIVE PAINT FINISH PRIOR TO INSTALLATION OF WALL BASE, CASEWORK & CEILING GRID'S PERIMETER WALL TRIM.

7.10 PAINT ALL H.M. DOORS U.N.O.

LEGEND

POLISHED CONCRETE - LEVEL 3	CARPET TILES
POLISHED CONCRETE - LEVEL 2	DECK COVERING SYSTEM
SEALED CONCRETE	EPOXY
PORCELAIN TILE - 8X32	WALK OFF MAT SEE DETAIL 1/A10.3
PORCELAIN TILE - 2X2	AREA RUG - TACTILE INSTALLATION SYSTEM FROM INTERFACE
RUBBER FLOOR, TYPE 1	SURFACE ROLL-UP FLOOR MAT, BALCO OR APPROVED EQUAL
RUBBER FLOOR, TYPE 2	--- ACCENT PAINT P-2
RUBBER STAIR TREAD	--- ACCENT PAINT P-4
	STAINLESS STEEL CORNER GUARDS, SEE DETAIL 22/A10.2



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