

November 20, 2025

ADDENDUM 2

To the Contract Documents for the Intech Welding Facility

Intech Welding Facility
Chaffey Community College District
SGH Architects Project Number: 23-46102-00
DSA A#04-124464

It is intended that all work affected by the following provisions shall conform to the original Plans and Specifications dated September 02, 2025 (DSA Approval date). Delete or modify each of the following items wherever appearing on the Drawings and/or Specifications. Acknowledge receipt of this Addendum in the space provided on the Contractor's Proposal. Failure to do so may subject bidder to disqualification.

NOTICE INVITING BIDS

ITEM 1.0 Changes to the Specifications

1. Section 00 01 10 – Table of Contents

- a. The Table of Contents has been updated to include three new specification sections:

- (1) 08 33 23 – Overhead Coiling Doors
- (2) 09 05 61 – Common Work Results for Flooring Preparation
- (3) 09 65 00 – Resilient Flooring

- b. Specification section 08 36 13 – Sectional Doors has been deleted.

2. Section 08 36 13 – Sectional Doors

- a. Specification section 08 36 13 - Sectional Doors has been removed in its entirety.

2. Section 08 33 23 – Overhead Coiling Doors

- a. Added specification section 08 33 23 – Overhead Coiling Doors.

3. Section 09 05 61 – Common Work Results for Flooring Preparation

- a. Added specification section 09 05 61 – Common Work Results for Flooring Preparation.

4. Section 09 65 00 – Resilient Flooring

- a. Added specification section 09 65 00 – Resilient Flooring.

ITEM 2.0 Changes to the Drawings

2.1 LANDSCAPE SHEETS

1. Sheet L2.01 – Planting Plan
 - a. Added Detail 2 – Irrigation Controller.
 - b. Added Detail 3 – Boulder Size and Location Plan.
 - c. The sizes of the local source granite boulders have been adjusted.

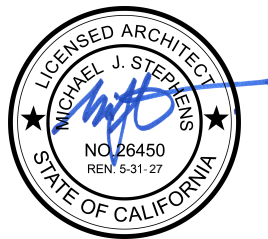
2.2 ARCHITECTURAL SHEETS

1. Sheet A1.32 - Site Plan -Enlarged Plans
 - a. Detail 1: Bicycle racks (keynote 32.014) have been located with a dimension string.
2. Sheet A5.11 – Exterior Elevations
 - a. A note has been added to the sheet clarifying the locations requiring graffiti-resistant coating.
3. Sheet A9.11 – Schedule – Doors, Frames, and Window Schedules
 - a. Note K under DOOR GENERAL NOTES has been replaced with “NOTE NOT USED.”

End of Addendum 2

SGH Architects

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END OF SECTION

**SECTION 8 33 23
OVERHEAD COILING DOORS**

PART 1 - GENERAL

1.01 SECTION INCLUDES

- A. Section Includes:
 - 1. Insulated service doors.
- B. Related Requirements:
 - 1. Section 05 50 00 "Metal Fabrications" for miscellaneous steel supports, door-opening framing, corner guards, and bollards.
 - 2. Section 09 91 13 "Exterior Painting" and Section 09 91 23 "Interior Painting" for finish painting of factory-primed doors.

1.02 ACTION SUBMITTALS

- A. Product Data: For each type and size of overhead coiling door and accessory.
 - 1. Include construction details, material descriptions, dimensions of individual components, profiles for slats, and finishes.
 - 2. Include rated capacities, operating characteristics, electrical characteristics, and furnished accessories.
 - 3. Include description of automatic-closing device and testing and resetting instructions.
- B. Shop Drawings: For each installation and for special components not dimensioned or detailed in manufacturer's product data.
 - 1. Include plans, elevations, sections, and mounting details.
 - 2. Include details of equipment assemblies, and indicate dimensions, required clearances, method of field assembly, components, and location and size of each field connection.
 - 3. Include points of attachment and their corresponding static and dynamic loads imposed on structure.
 - 4. For exterior components, include details of provisions for assembly expansion and contraction and for excluding and draining moisture to the exterior.
 - 5. Show locations of controls, locking devices, detectors or replaceable fusible links, and other accessories.
 - 6. Include diagrams for power, signal, and control wiring.

- C. Samples for Initial Selection: Manufacturer's finish charts showing full range of colors and textures available for units with factory-applied finishes.
 - 1. Include similar Samples of accessories involving color selection.
- D. Samples for Verification: For each type of exposed finish on the following components, in manufacturer's standard sizes:
 - 1. Curtain slats, including full vision window secured to slat].
 - 2. Bottom bar with sensor edge.
 - 3. Guides.
 - 4. Brackets.
 - 5. Hood.
 - 6. Locking device(s).
 - 7. Include similar Samples of accessories involving color selection.

1.03 CLOSEOUT SUBMITTALS

- A. Special warranty.
- B. Maintenance Data: For overhead coiling doors to include in maintenance manuals.

1.04 QUALITY ASSURANCE

- A. Installer Qualifications: An entity that employs installers and supervisors who are trained and approved by manufacturer for both installation and maintenance of units required for this Project.
 - 1. Maintenance Proximity: Not more than **two** hours' normal travel time from Installer's place of business to Project site.

1.05 WARRANTY

- A. Special Warranty: Manufacturer agrees to repair or replace components of doors that fail in materials or workmanship within specified warranty period.
 - 1. Warranty Period: **Two** years from date of Substantial Completion.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

- A. Source Limitations: Obtain overhead coiling doors from single source from single manufacturer. Bases of design is C.H.I Overhead Doors model 6202 with all options as identified below. (note: items listed below are not called out as options, just baseline items required)
 - 1. Obtain operators and controls from overhead coiling-door manufacturer.

2.02 PERFORMANCE REQUIREMENTS

1. Design Wind Load: As indicated on Drawings acting inward and outward.
2. Testing: According to ASTM E330/E330M or DASMA 108 for garage doors and complying with acceptance criteria of DASMA 108.
3. Operability under Wind Load: Design overhead coiling doors to remain operable under uniform pressure (velocity pressure) of 20-lbf/sq. ft. wind load, acting inward and outward.

Seismic Performance: Overhead coiling doors are to withstand the effects of earthquake motions determined according to ASCE/SEI 7. Seismic Design Category "D".

1. Component Importance Factor: 1.0.

2.03 DOOR ASSEMBLY

- A. Insulated Service Door: Overhead coiling door formed with curtain of interlocking metal slats.
- B. Operation Cycles: Door components and operators capable of operating for not less than 50,000. 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.
- C. Air Infiltration: Maximum rate of 0.4 cfm/sq. ft. 25 mph when tested according to ASTM E283 or DASMA 105.
- D. STC Rating: 26.
- E. Insulated Door Curtain R-Value: 4.5 deg F x h x sq. ft./Btu.
- F. Insulated Door Assembly U-Factor: 0.90 Btu/deg F x h x sq. ft..
- G. Door Curtain Material: Galvanized steel.
 1. Vision Panels: Approximately 10- by 1-5/8-inch openings spaced approximately 2 inches apart and beginning 12 inches from end guides; in three rows of slats at height indicated on Drawings; installed with insulated vision-panel glazing.
 2. Insulated-Slat Interior Facing: Metal.
 3. Gasket Seal. Manufacturer's standard continuous gaskets between slats.
- H. Bottom Bar: Two angles, each not less than 1-1/2 by 1-1/2 by 1/8 inch thick; fabricated from hot-dip galvanized steel and finished.
- I. Curtain Jamb Guides: Galvanized steel with exposed finish matching curtain slats.
- J. Hood: Match curtain material and finish.
 1. Shape: Square.
 2. Mounting: As indicated on Drawings.

- K. Locking Devices: Equip door with slide bolt for padlock.
 - 1. Locking Device Assembly: Single-jamb side locking bars, operable from inside with thumbturn.
- L. Electric Door Operator:
 - 1. Usage Classification: Light duty, up to 10 cycles per hour.
 - 2. Operator Location: Wall near pedestrian door.
 - 3. Motor Exposure: Interior.
 - 4. Motor Electrical Characteristics:
 - a. Horsepower: 2 hp.
 - b. Voltage: 208 V ac, single phase, 60 Hz.
 - 5. Emergency Manual Operation: Push-up type.
 - 6. Obstruction-Detection Device: Automatic pneumatic sensor edge on bottom bar or equal.
- M. Curtain Accessories: Equip door with weatherseals.
- N. Door Finish:
 - 1. Factory Prime Finish: Manufacturer's standard color.
 - 2. Interior Curtain-Slat Facing: Match finish of exterior curtain-slat face.
 - 3. Interior Curtain-Slat Facing: Match finish of exterior curtain-slat face.

2.04 MATERIALS, GENERAL

- A. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.

2.05 DOOR CURTAIN MATERIALS AND CONSTRUCTION

- A. Door Curtains: Fabricate overhead coiling-door curtain of interlocking metal slats, designed to withstand wind loading indicated, in a continuous length for width of door without splices. Unless otherwise indicated, provide slats of thickness and mechanical properties recommended by door manufacturer for performance, size, and type of door indicated, and as follows:
 - 1. Steel Door Curtain Slats: Zinc-coated (galvanized), cold-rolled structural-steel sheet; complying with ASTM A653/A653M, with G90 zinc coating; nominal sheet thickness (coated) of 0.028 inch; and as required. Minimum 20 gage material.
 - 2. Vision-Panel Glazing: Manufacturer's standard clear glazing, fabricated from transparent acrylic sheet or fire-protection-rated glass as required for type of door; set in glazing channel secured to curtain slats.

3. Insulation: Fill slats for insulated doors with manufacturer's standard thermal insulation complying with maximum flame-spread and smoke-developed indexes of 75 and 450, respectively, according to ASTM E84 or UL 723. Enclose insulation completely within slat faces.
 4. Metal Interior Curtain-Slat Facing: Match metal of exterior curtain-slat face, with minimum steel thickness of 24 gauge.
- B. Curtain Jamb Guides: Manufacturer's standard angles or channels and angles of same material and finish as curtain slats unless otherwise indicated, with sufficient depth and strength to retain curtain, to allow curtain to operate smoothly, and to withstand loading. Slot bolt holes for guide adjustment. Provide removable stops on guides to prevent overtravel of curtain, and a continuous bar for holding windlocks.

2.06 HOODS

- A. General: Form sheet metal hood to entirely enclose coiled curtain and operating mechanism at opening head. Contour to fit end brackets to which hood is attached. Roll and reinforce top and bottom edges for stiffness. Form closed ends for surface-mounted hoods and fascia for any portion of between-jamb mounting that projects beyond wall face. Equip hood with intermediate support brackets as required to prevent sagging.
1. Galvanized Steel: Nominal 0.028-inch- thick, hot-dip galvanized-steel sheet with G90 zinc coating, complying with ASTM A653/A653M.

2.07 LOCKING DEVICES

- A. Slide Bolt: Fabricate with side-locking bolts to engage through slots in tracks for locking by padlock, located on both left and right jamb sides, operable from coil side.

2.08 CURTAIN ACCESSORIES

- A. Weatherseals for Exterior Doors: Equip each exterior door with weather-stripping gaskets fitted to entire exterior perimeter of door for a weather-resistant installation unless otherwise indicated.
1. At door head, use 1/8-inch- thick, replaceable, continuous-sheet baffle secured to inside of hood or field-installed on the header.
 2. At door jambs, use replaceable, adjustable, continuous, flexible, 1/8-inch- thick seals of flexible vinyl, rubber, or neoprene.

2.09 COUNTERBALANCE MECHANISM

- A. General: Counterbalance doors by means of manufacturer's standard mechanism with an adjustable-tension, steel helical torsion spring mounted around a steel shaft and contained in a spring barrel connected to top of curtain with barrel rings. Use grease-sealed bearings or self-lubricating graphite bearings for rotating members.

- B. Counterbalance Barrel: Fabricate spring barrel of manufacturer's standard hot-formed, structural-quality, seamless carbon-steel pipe, of sufficient diameter and wall thickness to support rolled-up curtain without distortion of slats and to limit barrel deflection to not more than 0.03 in./ft. of span under full load.
- C. Counterbalance Spring: One or more oil-tempered, heat-treated steel helical torsion springs. Size springs to counterbalance weight of curtain, with uniform adjustment accessible from outside barrel. Secure ends of springs to barrel and shaft with cast-steel barrel plugs.
 - 1. Fire-Rated Doors: Equip with auxiliary counterbalance spring and prevent tension release from main counterbalance spring when automatic-closing device operates.
- D. Torsion Rod for Counterbalance Shaft: Fabricate of manufacturer's standard cold-rolled steel, sized to hold fixed spring ends and carry torsional load.
- E. Brackets: Manufacturer's standard mounting brackets of either cast iron or cold-rolled steel plate.

2.10 ELECTRIC DOOR OPERATORS

- A. General: Electric door operator assembly of size and capacity recommended and provided by door manufacturer for door and operation-cycles requirement specified, with electric motor and factory-prewired motor controls, starter, gear-reduction unit, solenoid-operated brake, clutch, control stations, control devices, integral gearing for locking door, and accessories required for proper operation.
 - 1. Comply with NFPA 70.
 - 2. Control equipment complying with NEMA ICS 1, NEMA ICS 2, and NEMA ICS 6, with NFPA 70 Class 2 control circuit, maximum 24-V ac or dc.
- B. Usage Classification: Electric operator and components capable of operating for not less than number of cycles per hour indicated for each door.
- C. Door Operator Location(s): Operator location indicated for each door.
 - 1. Top-of-Hood Mounted: Operator is mounted to the right or left door head plate with the operator on top of the door-hood assembly and connected to the door drive shaft with drive chain and sprockets. Headroom is required for this type of mounting.
 - 2. Front-of-Hood Mounted: Operator is mounted to the right or left door head plate with the operator on coil side of the door-hood assembly and connected to the door drive shaft with drive chain and sprockets. Front clearance is required for this type of mounting.
 - 3. Wall Mounted: Operator is mounted to the inside front wall on the left or right side of door and connected to door drive shaft with drive chain and sprockets. Side room is required for this type of mounting. Wall-mounted operator can also be mounted above or below shaft; if above shaft, headroom is required.

4. Bench Mounted: Operator is mounted to the right or left door head plate and connected to the door drive shaft with drive chain and sprockets. Side room is required for this type of mounting.
 5. Through-Wall Mounted: Operator is mounted on other side of wall from coil side of door.
- D. Motors: Reversible-type motor **with controller (disconnect switch)** for motor exposure indicated for each door assembly.
1. Electrical Characteristics: Minimum as indicated for each door assembly. If not indicated, large enough to start, accelerate, and operate door in either direction from any position, at a speed not less than 8 in./sec. and not more than 12 in./sec., without exceeding nameplate ratings or service factor.
 2. Operating Controls, Controllers, Disconnect Switches, Wiring Devices, and Wiring: Manufacturer's standard unless otherwise indicated.
 3. Coordinate wiring requirements and electrical characteristics of motors and other electrical devices with building electrical system and each location where installed.
- E. Limit Switches: Equip each motorized door with adjustable switches interlocked with motor controls and set to automatically stop door at fully opened and fully closed positions.
- F. Obstruction-Detection Devices: External entrapment protection consisting of indicated automatic safety sensor capable of protecting full width of door opening.
1. Photoelectric Sensor: Manufacturer's standard system designed to detect an obstruction in door opening without contact between door and obstruction.
- or
2. Pneumatic Sensor Edge: Automatic safety sensor edge, located within astragal or weather stripping mounted to bottom bar. Contact with sensor activates device.
- G. Control Station: Three-button control station in fixed location with momentary-contact push-button controls labeled "Open" and "Stop" and sustained- or constant-pressure push-button control labeled "Close."
1. Interior-Mounted Units: Full-guarded, surface-mounted, heavy-duty type, with general-purpose NEMA ICS 6, Type 1 enclosure.
- H. Emergency Manual Operation: Equip each electrically powered door with capability for emergency manual operation. Design manual mechanism so required force for door operation does not exceed 25 lbf.
- I. Emergency Operation Disconnect Device: Equip operator with hand-operated disconnect mechanism for automatically engaging manual operator and releasing brake for emergency manual operation while disconnecting motor without affecting timing of limit switch. Mount mechanism so it is accessible from floor level. Include interlock device to automatically prevent motor from operating when emergency operator is engaged.

- J. Motor Removal: Design operator so motor may be removed without disturbing limit-switch adjustment and without affecting emergency manual operation.
- K. Audible and Visual Signals: Audible alarm and visual indicator lights in compliance with the accessibility standard.

2.11 GENERAL FINISH REQUIREMENTS

- A. Comply with NAAMM/NOMMA 500 for recommendations for applying and designating finishes.
- B. Appearance of Finished Work: Noticeable variations in same piece are not acceptable. Variations in appearance of adjoining components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

2.12 STEEL AND GALVANIZED-STEEL FINISHES

- A. Factory Prime Finish: Manufacturer's standard primer, compatible with field-applied finish. Comply with coating manufacturer's written instructions for cleaning, pretreatment, application, and minimum dry film thickness.

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Examine substrates areas and conditions, with Installer present, for compliance with requirements for substrate construction and other conditions affecting performance of the Work.
- B. Examine locations of electrical connections.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.02 INSTALLATION, GENERAL

- A. Install overhead coiling doors and operating equipment complete with necessary hardware, anchors, inserts, hangers, and equipment supports; according to manufacturer's written instructions and as specified.
- B. Install overhead coiling doors, hoods, controls, and operators at the mounting locations indicated for each door.
- C. Accessibility: Install overhead coiling doors, switches, and controls along accessible routes in compliance with the accessibility standard.
- D. Power-Operated Doors: Install according to UL 325.

3.03 FIELD QUALITY CONTROL

- A. Testing Agency: Engage a qualified testing agency to perform tests and inspections and to furnish reports to Architect.
- B. Perform the following tests and inspections with the assistance of a factory-authorized service representative:

1. Test door release, closing, and alarm operations when activated by smoke detector or building's fire-alarm system. Test manual operation of closed door. Reset door-closing mechanism after successful test.
 2. Fire-Rated Door Inspections: Inspect each fire-rated door in accordance with NFPA 80, Section 5.2.
- C. Repair or remove and replace installations where inspections indicate that they do not comply with specified requirements.
- D. Reinspect repaired or replaced installations to determine if replaced or repaired door assembly installations comply with specified requirements.

3.04 STARTUP SERVICE

- A. Engage a factory-authorized service representative to perform startup service.
1. Complete installation and startup checks according to manufacturer's written instructions.
 2. After electrical circuitry has been energized, doors operate to confirm proper motor rotation and door performance.
 3. Test and adjust controls and safety devices. Replace damaged and malfunctioning controls and equipment.

3.05 ADJUSTING

- A. Adjust hardware and moving parts to function smoothly so that doors operate easily, free of warp, twist, or distortion.
- B. Lubricate bearings and sliding parts as recommended by manufacturer.
- C. Adjust seals to provide tight fit around entire perimeter.

3.06 MAINTENANCE SERVICE

- A. Initial Maintenance Service: Beginning at Substantial Completion, maintenance service includes 12 months' full maintenance by skilled employees of coiling-door Installer. Include monthly quarterly preventive maintenance, repair or replacement of worn or defective components, lubrication, cleaning, and adjusting as required for proper door operation. Parts and supplies are to be manufacturer's authorized replacement parts and supplies.
1. Perform maintenance, including emergency callback service, during normal working hours.
 2. Include 24-hour-per-day, seven-day-per-week, emergency callback service.

3.07 DEMONSTRATION

- A. Engage a factory-authorized service representative to train Owner's maintenance personnel to adjust, operate, and maintain overhead coiling doors.

END OF SECTION 08 33 23

SECTION 09 05 61 COMMON WORK RESULTS FOR FLOORING PREPARATION

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. This section applies to floors identified in Contract Documents that are receiving the following types of floor coverings:
 - 1. Resilient tile and sheet.
 - a. Moisture vapor seal is required at all locations to receive resilient flooring regardless of moisture test.
- B. Preparation of new concrete floor slabs for installation of floor coverings.
- C. Testing of concrete floor slabs for moisture and alkalinity (pH).
- D. Remediation of concrete floor slabs due to unsatisfactory moisture or alkalinity (pH) conditions.
 - 1. Contractor shall perform all specified remediation of concrete floor slabs. If such remediation is indicated by testing agency's report and is due to a condition not under Contractor's control or could not have been predicted by examination prior to entering into the contract, a contract modification will be issued.
- E. Patching compound.
- F. Remedial floor coatings.

1.02 RELATED REQUIREMENTS

- A. Section 01 40 00 - Quality Requirements: Additional requirements relating to testing agencies and testing.
- B. Section 01 74 19 - Construction Waste Management and Disposal: Handling of existing floor coverings removed.
- C. Section 03 30 00 - Cast-in-Place Concrete: Moisture emission reducing curing and sealing compound for slabs to receive adhered flooring, to prevent moisture content-related flooring failures; to remain in place, not to be removed.
- D. Section 03 30 00 - Cast-in-Place Concrete: Limitations on curing requirements for new concrete floor slabs.

1.03 REFERENCE STANDARDS

- A. ASTM C109/C109M - Standard Test Method for Compressive Strength of Hydraulic Cement Mortars (Using 50 mm [2 in.] Cube Specimens).
- B. ASTM C472 - Standard Test Methods for Physical Testing of Gypsum, Gypsum Plasters, and Gypsum Concrete.
- C. ASTM F710 - Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring.

- D. ASTM F1869 - Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride.
- E. ASTM F2170 - Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using in situ Probes.
- F. ASTM F3010 - Standard Practice for Two-Component Resin Based Membrane-Forming Moisture Mitigation Systems for Use Under Resilient Floor Coverings;2018.
- G. RFCI (RWP) - Recommended Work Practices for Removal of Resilient Floor Coverings.

1.04 ADMINISTRATIVE REQUIREMENTS

- A. Coordinate scheduling of cleaning and testing, so that preliminary cleaning has been completed for at least 24 hours prior to testing.

1.05 SUBMITTALS

- A. See Section 01 30 00 - Administrative Requirements for submittal procedures.
- B. Visual Observation Report: For existing floor coverings to be removed.
- C. Floor Covering and Adhesive Manufacturers' Product Literature: For each specific combination of substrate, floor covering, and adhesive to be used; showing:
 - 1. Moisture and alkalinity (pH) limits and test methods.
 - 2. Manufacturer's required bond/compatibility test procedure.
- D. Remedial Materials Product Data: Manufacturer's published data on each product to be used for remediation.
 - 1. Manufacturer's qualification statement.
 - 2. Certificate: Manufacturer's certification of compatibility with types of flooring applied over remedial product.
 - 3. Test reports indicating compliance with specified performance requirements, performed by nationally recognized independent testing agency.
 - 4. Manufacturer's installation instructions.
 - 5. Specimen Warranty: Copy of warranty to be issued by coating manufacturer and certificate of underwriter's coverage of warranty.
- E. Testing Agency's Report:
 - 1. Description of areas tested; include floor plans and photographs if helpful.
 - 2. Summary of conditions encountered.
 - 3. Moisture and alkalinity (pH) test reports.
 - 4. Copies of specified test methods.
 - 5. Recommendations for remediation of unsatisfactory surfaces.
 - 6. Product data for recommended remedial coating.
 - 7. Certificate: Include certification of accuracy by authorized official of testing agency.
 - 8. Submit report to Architect.
 - 9. Submit report not more than two business days after conclusion of testing.

- F. Adhesive Bond and Compatibility Test Report.
- G. Floor Moisture Testing Technician Certificate: International Concrete Repair Institute (ICRI) Concrete Slab Moisture Testing Technician- Grade I certificate.
- H. Copy of RFCI (RWP).

1.06 QUALITY ASSURANCE

- A. Moisture and alkalinity (pH) testing shall be performed by an independent testing agency employed and paid by Contractor.
- B. Contractor may perform additional adhesive and bond test with Contractor's own personnel or hire a testing agency.
- C. Testing Agency Qualifications: Independent testing agency experienced in the types of testing specified.
 - 1. Submit evidence of experience consisting of at least 3 test reports of the type required, with project District's project contact information.
 - 2. Acceptable Testing Agencies:
 - a. Independent Floor Testing & Inspection, Inc. (IFTI): www.ifti.com/#sle.
 - b. Other testing agency approved by District.
 - c. Substitutions: See Section 016000.
- D. Contractor's Responsibility Relating to Independent Agency Testing:
 - 1. Provide access for and cooperate with testing agency.
 - 2. Confirm date of start of testing at least 10 days prior to actual start.
 - 3. Allow at least 4 business days on site for testing agency activities.
 - 4. Achieve and maintain specified ambient conditions.
 - 5. Notify Architect when specified ambient conditions have been achieved and when testing will start.
- E. Floor Moisture Testing Technician Qualifications: International Concrete Repair Institute (ICRI) Concrete Slab Moisture Testing Technician Certification- Grade I.
- F. Remedial Coating Installer Qualifications: Company specializing in performing work of the type specified in this section, trained by or employed by coating manufacturer, and able to provide at least 3 project references showing at least 3 years' experience installing moisture emission coatings.

1.07 DELIVERY, STORAGE, AND HANDLING

- A. Deliver, store, handle, and protect products in accordance with manufacturer's instructions and recommendations.
- B. Deliver materials in manufacturer's packaging; include installation instructions.
- C. Keep materials from freezing.

1.08 FIELD CONDITIONS

- A. Maintain ambient temperature in spaces where concrete testing is being performed, and for at least 48 hours prior to testing, at not less than 65 degrees F or more than 85 degrees F.
- B. Maintain relative humidity in spaces where concrete testing is being performed, and for at least 48 hours prior to testing, at not less than 40 percent and not more than 60 percent.

PART 2 PRODUCTS

2.01 MATERIALS

- A. Patching Compound: Floor covering manufacturer's recommended product, suitable for conditions, and compatible with adhesive and floor covering. In the absence of any recommendation from flooring manufacturer, provide a product with the following characteristics:
 - 1. Cementitious moisture-, mildew-, and alkali-resistant compound, compatible with floor, floor covering, and floor covering adhesive, and capable of being feathered to nothing at edges.
 - 2. Latex or polyvinyl acetate additions are permitted; gypsum content is prohibited.
 - 3. Compressive Strength: 3000 psi, minimum, after 28 days, when tested in accordance with ASTM C109/C109M or ASTM C472, whichever is appropriate.
 - 4. Products:
 - a. ARDEX Engineered Cements; ARDEX Feather Finish: www.ardexamericas.com/#sle.
 - b. Floor Seal Technology, Inc: www.floorseal.com/#sle.
 - c. H.B. Fuller Construction Products, Inc; TEC Feather Edge Skim Coat: www.tecspecialty.com/#sle.
 - d. Mapei International; Mapei Ultraplan 1 Plus: www.mapei.com.
 - e. Sika Corporation; Sika Level-315: www.sikafloorusa.com.
 - f. USG Corporation; Durock Brand Advanced Skim Coat Floor Patch: www.usg.com/#sle.
 - g. Substitutions: See Section 01 60 00 - Product Requirements.
- B. Alternate Flooring Adhesive: Floor covering manufacturer's recommended product, suitable for the moisture and pH conditions present; low-VOC. In the absence of any recommendation from flooring manufacturer, provide a product recommended by adhesive manufacturer as suitable for substrate and floor covering and for conditions present.
- C. Remedial Floor Coating, Two-Component: Single-layer coating resistant to water vapor transmission meeting flooring manufacturer's emission limits, resistant to alkalinity (pH) level found, and suitable for flooring adhesion without further treatment.
 - 1. Material: Comply with ASTM F3010.
 - 2. Thickness: As required for application and in accordance with manufacturer's installation instructions.
 - 3. Products:

- a. ARDEX Engineered Cements; ARDEX MC RAPID: www.ardexamericas.com/#sle.
- b. Custom Building Products; TechMVC Moisture Vapor and Alkalinity Barrier: www.custombuildingproducts.com/#sle.
- c. Floor Seal Technology, Inc; MES 100: www.floorseal.com/#sle.
- d. Koster American Corporation; Koster VAP I 2000 with Koster SL Premium overlay: www.kosterusa.com/#sle.
- e. LATICRETE International, Inc; LATICRETE VAPOR BAN E: www.laticrete.com/#sle.
- f. Mapei Corporation; Planiseal VS: www.mapei.com/#sle.
- g. Polycoat Products; Polyprime FMB: www.polycoatusa.com/#sle.
- h. Sika Corporation; Sikafloor Moisture Tolerance Epoxy Primer: www.sikafloorusa.com/#sle.
- i. USG Corporation; Durock CoverPrep: www.usg.com/#sle.
- j. Substitutions: See Section 01 60 00 - Product Requirements.

PART 3 EXECUTION

3.01 CONCRETE SLAB PREPARATION

- A. Follow recommendations of testing agency.
- B. Perform following operations in the order indicated:
 - 1. Preliminary cleaning.
 - 2. Moisture vapor emission tests; 3 tests in the first 1000 square feet and one test in each additional 1000 square feet, unless otherwise indicated or required by flooring manufacturer.
 - 3. Internal relative humidity tests; in same locations as moisture vapor emission tests, unless otherwise indicated.
 - 4. Alkalinity (pH) tests; in same locations as moisture vapor emission tests, unless otherwise indicated.
 - 5. Specified remediation, if required.
 - 6. Patching, smoothing, and leveling, as required.
 - 7. Other preparation specified.
 - 8. Adhesive bond and compatibility test.
 - 9. Protection.
- C. Remediations:
 - 1. Active Water Leaks or Continuing Moisture Migration to Surface of Slab: Correct this condition before doing any other remediation; re-test after correction.
 - 2. Excessive Moisture Emission or Relative Humidity: If an adhesive that is resistant to the level of moisture present is available and acceptable to flooring manufacturer, use that adhesive for installation of the flooring; if not, apply remedial floor coating or remedial sheet membrane over entire suspect floor area.

3. Excessive Alkalinity (pH): If remedial floor coating is necessary to address excessive moisture, no additional remediation is required; if not, if an adhesive that is resistant to the level present is available and acceptable to the flooring manufacturer, use that adhesive for installation of the flooring; otherwise, apply a skim coat of specified patching compound over entire suspect floor area.

3.02 PRELIMINARY CLEANING

- A. Clean floors of dust, solvents, paint, wax, oil, grease, asphalt, residual adhesive, adhesive removers, film-forming curing compounds, sealing compounds, alkaline salts, excessive laitance, mold, mildew, and other materials that might prevent adhesive bond.
- B. Do not use solvents or other chemicals for cleaning.

3.03 MOISTURE VAPOR EMISSION TESTING

- A. Where the floor covering manufacturer's requirements conflict with either the referenced test method or this specification, comply with the manufacturer's requirements.
- B. Where this specification conflicts with the referenced test method, comply with the requirements of this section.
- C. Test in accordance with ASTM F1869 and as follows.
- D. Plastic sheet test and mat bond test may not be substituted for the specified ASTM test method, as those methods do not quantify the moisture content sufficiently.
- E. In the event that test values exceed floor covering manufacturer's limits, perform remediation as indicated. In the absence of manufacturer limits, perform remediation if test values exceed 3 pounds per 1000 square feet per 24 hours.
- F. Report: Report the information required by the test method.

3.04 INTERNAL RELATIVE HUMIDITY TESTING

- A. Where the floor covering manufacturer's requirements conflict with either the referenced test method or this specification, comply with the manufacturer's requirements.
- B. Where this specification conflicts with the referenced test method, comply with the requirements of this section.
- C. Test in accordance with ASTM F2170 Procedure A and as follows.
- D. Testing with electrical impedance or resistance apparatus may not be substituted for the specified ASTM test method, as the values determined are not comparable to the ASTM test values and do not quantify the moisture content sufficiently.
- E. In the event that test values exceed floor covering manufacturer's limits, perform remediation as indicated. In the absence of manufacturer limits, perform remediation if any test value exceeds 75 percent relative humidity.
- F. Report: Report the information required by the test method.

3.05 ALKALINITY TESTING

- A. Where the floor covering manufacturer's requirements conflict with either the referenced test method or this specification, comply with the manufacturer's requirements.

- B. The following procedure is the equivalent of that described in ASTM F710, repeated here for the Contractor's convenience.
 - 1. Use a wide range alkalinity (pH) test paper, its associated chart, and distilled or deionized water.
 - 2. Place several drops of water on a clean surface of concrete, forming a puddle approximately 1 inch in diameter. Allow the puddle to set for approximately 60 seconds, then dip the alkalinity (pH) test paper into the water, remove it, and compare immediately to chart to determine alkalinity (pH) reading.
 - 3. Use of a digital pH meter with probe is acceptable; follow meter manufacturer's instructions.
- C. In the event that test values exceed floor covering manufacturer's limits, perform remediation as indicated. In the absence of manufacturer limits, perform remediation if alkalinity (pH) test value is over 10.

3.06 PREPARATION

- A. See individual floor covering section(s) for additional requirements.
- B. Comply with recommendations of testing agency.
- C. Comply with requirements and recommendations of floor covering manufacturer.
- D. Fill and smooth surface cracks, grooves, depressions, control joints and other non-moving joints, and other irregularities with patching compound.
- E. Do not fill expansion joints, isolation joints, or other moving joints.

3.07 ADHESIVE BOND AND COMPATIBILITY TESTING

- A. Comply with requirements and recommendations of floor covering manufacturer.

3.08 APPLICATION OF REMEDIAL FLOOR COATING

- A. Comply with requirements and recommendations of coating manufacturer.
- B. Install remedial coating over all concrete floor areas where moisture emission and/or alkalinity exceeds the floor covering manufacturer's published limits.
- C. Prepare floor areas to be coated in accordance with coating manufacturer's requirements.
 - 1. Mask and protect adjacent wall and floor surfaces from damage due to this work.
- D. Apply coating using manufacturer's recommended procedures.
- E. Apply 1/8 inch thick cementitious surfacing over coating in areas to receive adhesively applied floor coverings.
- F. Verify that prepared floor slab has moisture emission rate and alkalinity meeting requirements.

3.09 PROTECTION

- A. Cover prepared floors with building paper or other durable covering.

END OF SECTION

SECTION 09 65 00 RESILIENT FLOORING

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Resilient tile flooring.
- B. Resilient base.
- C. Installation accessories.

1.02 RELATED REQUIREMENTS

- A. Section 01 61 16 - Volatile Organic Compound (VOC) Content Restrictions.
- B. Section 03 30 00 - Cast-in-Place Concrete: Restrictions on curing compounds for concrete slabs and floors to receive adhesive-applied resilient flooring.
- C. Section 09 05 61 - Common Work Results for Flooring Preparation: Concrete slab moisture and alkalinity testing and remediation procedures.
 - 1. Remedial Floor coating is required under all resilient flooring.

1.03 REFERENCE STANDARDS

- A. ADA Standards - 2010 ADA Standards for Accessible Design.
- B. ANSI A326.3 - American National Standard Test Method for Measuring Dynamic Coefficient of Friction of Hard Surface Flooring Materials.
- C. ANSI/NFSI B101.3 - Test Method for Measuring the Wet DCOF of Hard Surface Walkways.
- D. ASTM E648 - Standard Test Method for Critical Radiant Flux of Floor-Covering Systems Using a Radiant Heat Energy Source.
- E. ASTM E662 - Standard Test Method for Specific Optical Density of Smoke Generated by Solid Materials.
- F. ASTM F150 - Standard Test Method for Electrical Resistance of Conductive and Static Dissipative Resilient Flooring.
- G. ASTM F1066 - Standard Specification for Vinyl Composition Floor Tile.
- H. CBC Ch. 11B - California Building Code-Chapter 11B.
- I. NFPA 253 - Standard Method of Test for Critical Radiant Flux of Floor Covering Systems Using a Radiant Heat Energy Source.
- J. RFCI (RWP) - Recommended Work Practices for Removal of Resilient Floor Coverings.

1.04 SUBMITTALS

- A. See Section 01 30 00 - Administrative Requirements for submittal procedures.
- B. Product Data: Provide data on specified products, describing physical and performance characteristics; including sizes, patterns and colors available; and installation instructions.

- C. Shop Drawings: Indicate seaming plans and floor patterns.
- D. Selection Samples: Submit manufacturer's complete set of color samples for Architect's initial selection.
- E. Verification Samples: Submit two samples, 2 by 2 inch in size illustrating color and pattern for each resilient flooring product specified.
- F. Concrete Subfloor Test Report: Submit a copy of the moisture and alkalinity (pH) test reports.
- G. Certification: Prior to installation of flooring, submit written certification by flooring manufacturer and adhesive manufacturer that condition of subfloor is acceptable.
- H. Manufacturer's Qualification Statement.
- I. Installer's Qualification Statement.
- J. Maintenance Data: Include maintenance procedures, recommended maintenance materials, and suggested schedule for cleaning, stripping, and re-waxing.
- K. Maintenance Materials: Furnish the following for District's use in maintenance of project.
 - 1. See Section 01 60 00 - Product Requirements, for additional provisions.
 - 2. Extra Flooring Material: 100 square feet of each type and color.
 - 3. Extra Wall Base: 50 linear feet of each type and color.
 - 4. Extra Stair Materials: Quantity equivalent to 5 percent of each type and color.

1.05 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing specified flooring with minimum ten years documented experience.
- B. Installer Qualifications: Company specializing in installing specified flooring with minimum three years documented experience.
- C. Testing Agency Qualifications: Independent firm specializing in performing concrete slab moisture testing and inspections of the type specified in this section.

1.06 WARRANTY

- A. Provide 10-year Commercial Limited Warranty.

1.07 DELIVERY, STORAGE, AND HANDLING

- A. Upon receipt, immediately remove any shrink-wrap and check materials for damage and the correct style, color, quantity and run numbers.
- B. Store all materials off of the floor in an acclimatized, weather-tight space.
- C. Maintain temperature in storage area between 55 degrees F and 90 degrees F.

1.08 FIELD CONDITIONS

- A. Store materials for not less than 48 hours prior to installation in area of installation at a temperature of 70 degrees F to achieve temperature stability. Thereafter, maintain conditions above 55 degrees F.

PART 2 PRODUCTS

2.01 REGULATORY REQUIREMENTS

- A. All products used shall meet VOC requirements listed in Section 01 61 16 - Volatile Organic Compound (VOC) Content Restrictions.
- B. All products used for flooring installation shall comply with flammability and smoke classifications for various locations of installation. Comply with applicable requirements of California Building Code (CBC) Chapter 8.
 - 1. Smoke Density: ASTM E662 Rating to be less than 450 Dm (Optical Density) in flaming mode. (CBC 804.4.1).
- C. Requirements for persons with disabilities: Provide flooring meeting slip-resistant requirements of California Code of Regulations (CCR), Title 24, Part 2, CBC Ch. 11B and ADA Standards, latest amendment.
 - 1. Flooring demonstrating a coefficient meeting the intent of slip resistance; CBC Ch. 11B-302 Floor or Ground Surfaces, CBC Ch. 11B-403 Walking Surfaces, and ADA Standards.
 - 2. Flooring surface shall be stable, firm, and slip resistant. CBC Ch. 11B-302.1 General.
 - 3. Flooring surface demonstrating a dynamic coefficient of friction of at least 0.42 wet per DCOF AcuTest ANSI A326.3, or ANSI/NFSI B101.3 (using a BOT-3000 testing unit) will be accepted as meeting the intent of slip resistance; CBC Ch. 11B-302 Floor or Ground Surfaces and ADA Standards.
 - a. Ramp surface: Provide DCOF value of 0.46 wet.

2.02 TILE FLOORING

- A. Vinyl Composition Tile: Homogeneous, with color extending throughout thickness.
 - 1. Manufacturers:
 - a. Basis of Design Product: Standard Excelon Imperial Texture as manufactured by Armstrong Flooring, or approved equal.
 - b. Tarkett Flooring: www.tarkett.com/#sle.
 - c. Azrock Commercial Flooring, a Tarkett Company: www.johnsonite.com.
 - d. Substitutions: See Section 01 60 00 - Product Requirements.
 - 2. Minimum Requirements: Comply with ASTM F1066, of Class corresponding to type specified.
 - 3. Critical Radiant Flux (CRF): Minimum 0.45 watt per square centimeter, when tested in accordance with ASTM E 648, NFPA 253, ASTM E 648, or NFPA 253.
 - 4. Size: 12 by 12 inch.
 - 5. VOC Content Limits: As specified in Section 01 61 16.
 - 6. Thickness: 0.125 inch.
 - 7. Color: To be selected by Architect from manufacturer's full range.

2.03 RESILIENT BASE

- A. Resilient Base - Type RB-1: ASTM F1861, Type TS rubber, vulcanized thermoset; Style B, Cove.

1. Manufacturers:
 - a. Armstrong; Wall Base: www.armstrongflooring.com.
 - b. Flexco Corporation; Base Sculptures: www.flexcofloors.com/#sle.
 - c. Mannington Commercial; Burke: www.manningtoncommercial.com#sle.
 - d. Roppe Corporation: www.roppe.com/#sle.
 - e. Tarkett Flooring: www.tarkett.com/#sle.
 - f. Substitutions: See Section 01 60 00 - Product Requirements.
2. Critical Radiant Flux (CRF): Minimum 0.45 watt per square centimeter, when tested in accordance with ASTM E 648, NFPA 253, ASTM E 648, or NFPA 253.
3. Height: 4 inches.
4. Thickness: 0.125 inch.
5. Finish: Satin.
6. Length: Roll.
7. Color: To be selected by Architect from manufacturer's full range.
8. Accessories: Premolded external corners and internal corners.

2.04 ACCESSORIES

- A. Subfloor Filler: White premix latex; type recommended by adhesive material manufacturer.
- B. Primers, Adhesives, and Seam Sealer: Waterproof; types recommended by flooring manufacturer.
 1. VOC Content Limits: As specified in Section 01 61 16.
- C. Adhesive for Vinyl Flooring:
- D. Moldings, Transition and Edge Strips: Same material as flooring.
- E. Filler for Coved Base: Plastic.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that surfaces are flat to tolerances acceptable to flooring manufacturer, free of cracks that might telegraph through flooring, clean, dry, and free of curing compounds, surface hardeners, and other chemicals that might interfere with bonding of flooring to substrate.
- B. Verify that wall surfaces are smooth and flat within the tolerances specified for that type of work, are dust-free, and are ready to receive resilient base.
- C. Cementitious Subfloor Surfaces: Verify that substrates are ready for resilient flooring installation by testing for moisture and alkalinity (pH).
 1. Test in accordance with Section 09 05 61.
 2. Obtain instructions if test results are not within limits recommended by resilient flooring manufacturer and adhesive materials manufacturer.

- D. Environmental Condition: Comply with flooring manufacturer's instructions and recommendations.
 - 1. Verify that ambient and surface temperatures and humidity conditions are in compliance.
- E. Verify that required floor-mounted utilities are in correct location.
- F. Material Inspection:
 - 1. In accordance with manufacturer's installation requirements, visually inspect materials prior to installation.
 - 2. Material with visual defects shall not be installed.
 - 3. Labor costs required to replace material installed with visual defects shall be the responsibility of the installation contractor.

3.02 PREPARATION

- A. Prepare floor substrates for installation of flooring in accordance with Section 09 05 61.
- B. Clean substrate.

3.03 INSTALLATION - GENERAL

- A. Starting installation constitutes acceptance of sub-floor conditions. Beginning of installation means acceptance of existing substrate and site conditions and assumes responsibility for correcting unsuitable conditions at no additional cost to the District.
- B. Install in accordance with manufacturer's written instructions.
 - 1. Compliance: Comply with manufacturer's product data, including product technical bulletins, product catalog installation instructions, and product carton instructions for installation.
- C. Adhesive-Applied Installation:
 - 1. Spread only enough adhesive to permit installation of materials before initial set.
- D. Where type of floor finish, pattern, or color are different on opposite sides of door, terminate flooring under centerline of door.
- E. Install edge strips at unprotected or exposed edges, where flooring terminates, and where indicated.
 - 1. Resilient Strips: Attach to substrate using adhesive.
- F. Scribe flooring to walls, columns, cabinets, floor outlets, and other appurtenances to produce tight joints.
- G. Install feature strips where indicated.

3.04 INSTALLATION - TILE FLOORING

- A. Mix tile from container to ensure shade variations are consistent when tile is placed, unless otherwise indicated in manufacturer's installation instructions.
- B. Lay flooring with joints and seams parallel to building lines to produce symmetrical pattern.
- C. Install square tile to ashlar pattern. Allow minimum 1/2 full size tile width at room or area perimeter.

3.05 INSTALLATION - RESILIENT BASE

- A. Fit joints tightly and make vertical. Maintain minimum dimension of 18 inches between joints.
- B. Miter internal corners. At external corners, use premolded units. At exposed ends, use premolded units.
- C. Install base on solid backing. Bond tightly to wall and floor surfaces.
- D. Scribe and fit to door frames and other interruptions.

3.06 CLEANING

- A. Remove excess adhesive from floor, base, and wall surfaces without damage.
- B. Clean in accordance with manufacturer's written instructions.
- C. Installation Clean-Up: Upon completion of installation in a room or area, clean flooring and adjacent surfaces.
 - 1. Sweep or vacuum floor thoroughly.
 - 2. Do not wash floor until time period recommended by resilient flooring manufacturer has elapsed to allow resilient flooring to become well-sealed in adhesive.
 - 3. Remove excess adhesive or other surface blemishes, using appropriate cleaner recommended by resilient flooring manufacturers.
- D. Initial Cleaning: After adhesive has set but no sooner than 5 days after installation, wash resilient tile flooring with a neutral type cleaning solution in accordance with manufacturer's instructions and recommendations. Rinse thoroughly with clear, cool water but do not flood floor.
 - 1. After completion of installation, apply one coat of polish, if recommended by manufacturer, and buff to even luster.
 - 2. After final cleaning, apply second coat of polish as recommended by tile manufacturer and buff to even luster.
- E. Final Cleaning: Thoroughly clean resilient tile flooring and accessories in accordance with final cleaning specified in Section 01 70 00 - Execution and Closeout Requirements.
 - 1. Clean resilient flooring not more than 4 days prior to date scheduled for inspections intended to establish date of substantial completion in each area of Project.
 - 2. Clean resilient flooring by method recommended by resilient flooring manufacturer, including stripping and application of additional floor polish and buffing to even luster.

3.07 PROTECTION

- A. Prohibit traffic on resilient flooring for 48 hours after installation.
- B. From the time of laying until Acceptance, protect flooring from damage.
 - 1. Lay reinforced kraft paper runners and provide barricades and signs as necessary to prevent construction traffic on completed installations.
 - 2. Protect resilient flooring against damage from rolling loads for initial period following installation by covering with plywood or hardboard. Use dollies to move stationary equipment or furnishings across floors.

3. Remove and replace defects which develop such as damaged, loose or broken tile and resilient accessories.

END OF SECTION



1. SOURCE OF BASE SHEETS IS SGN ARCHITECTS
2. REFER TO CIVIL ENGINEER'S UTILITY PLANS FOR UTILITY LOCATION
3. VERIFY ALL UTILITIES SHOWN ON PLANS ARE ACCURATE
4. REFER TO CIVIL ENGINEER'S GRADING PLANS FOR GRADING
5. VERIFY ALL ELEVATIONS SHOWN ON PLANS ARE ACCURATE
6. VERIFY ALL UTILITIES SHOWN ON THE PLANS OR IF THERE ARE DISCREPANCIES BETWEEN THE PLANS, CONTACT THE LANDSCAPE ARCHITECT FOR DIRECTION
7. VERIFY TO PROTECT
8. VERIFY LOCATIONS OF PERTINENT SITE IMPROVEMENTS INSTALLED
9. VERIFY ALL UTILITIES SHOWN ON PLANS ARE ACCURATE
10. FOLLOWED UP TO SITE CONDITIONS. CONTACT LANDSCAPE
11. FOR ANY INSTANTANEOUS CHANGES TO THE PLANS
12. EXACT LOCATIONS OF PLANT MATERIALS TO BE PER PLANS AND
13. DIMENSIONS. LANDSCAPE ARCHITECT RESERVES THE RIGHT TO
14. VERIFY PLANT COUNTS AND SQUARE FOOTAGES. QUANTITIES IF
15. PLANT MATERIALS ARE NOT SHOWN ON PLANS, QUANTITIES ON
16. PLANT LIST DIFFER FROM GRAPHIC INDICATIONS. THEN GRAPHICS
17. SHALL PREVAIL.
18. VERIFY ALL LOCAL UNDERGROUND UTILITY SERVICES, OR SITE
19. FACILITIES STAFF, FOR UTILITY LOCATION AND IDENTIFICATION.
20. VERIFY ALL UTILITIES SHOWN ON PLANS ARE ACCURATE
21. WITH CARE AND IF NECESSARY BY HAND. THE CONTRACTOR BEARS
22. THE RESPONSIBILITY FOR VERIFYING THE LOCATION OF ALL UTILITIES
23. TO UTILITIES SHALL BE REPAIRED IMMEDIATELY AT NO EXPENSE TO
24. THE OWNER.
25. VERIFY ALL PLANT MATERIALS TO BE PER FINISHED GRADE PLUS 1".
26. PROVIDE MATCHING FORMS AND SIZES FOR PLANT MATERIALS
27. TO BE SHOWN ON PLANS. VERIFY ALL PLANT MATERIALS TO BE
28. PRUNE NEWLY PLANTED TREES ONLY AS DIRECTED BY LANDSCAPE
29. ARCHITECT.
30. ALIGN AND EQUALLY SPACE ALL IN DIRECTIONS TREES AND SHRUBS
31. SO DESIGNATED PER THESE NOTES AND DRAWINGS
32. VERIFY ALL PLANT MATERIALS TO BE PER FINISHED GRADES BELOW
33. ADJACENT PAVING OR TOP OF PAVE UNLESS OTHERWISE NOTED
34. VERIFY ALL PLANT MATERIALS TO BE PER FINISHED GRADES
35. PROVIDE SUFFICIENT EDDING AS DIVIDER BETWEEN PLANTING BEDS.
36. VERIFY ALL PLANT MATERIALS TO BE PER FINISHED GRADES
37. LANDSCAPE ARCHITECT TO REVIEW PLANT MATERIALS BY
38. PHOTOGRAPHS PRIOR TO DIGGING OR SHIPPING OF PLANT
39. MATERIALS.

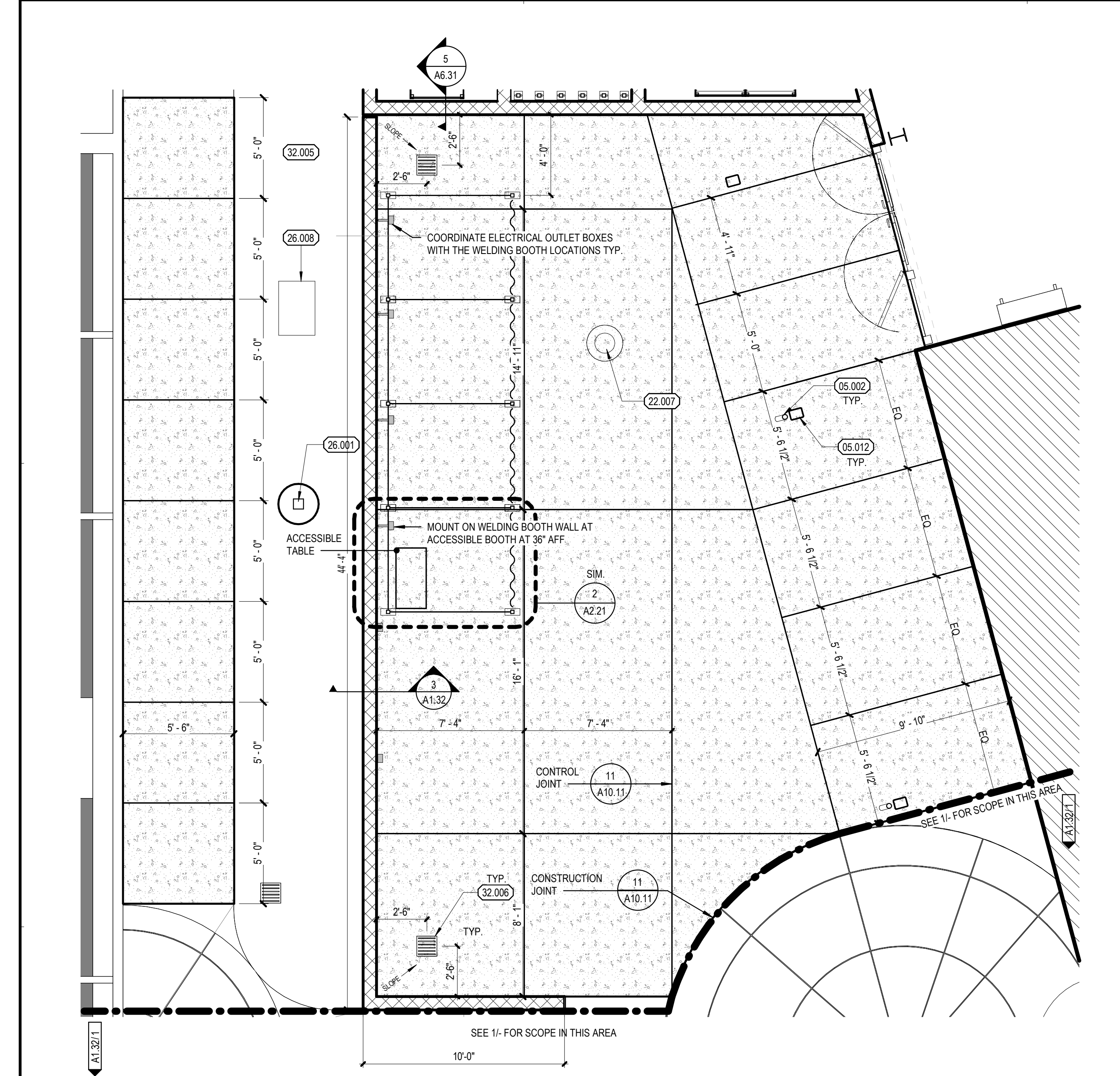


PLANTING LEGEND WUCOLS CLASSIFICATION	
PLATANUS RACEMOSA SYCAMORE 24" BOX	WUCOLS 3: MED 50" TALL/40" WIDE SUN
AGONIS PLEXUOSA PEPPERMINT WILLOW 24" BOX	WUCOLS 3: MED 30" TALL/25" WIDE SUN
PISTIA CHININIS "RED PUSH" 24" BOX	WUCOLS 3: MED 35" TALL/35" WIDE SUN
ACACIA WILLARDIANA PALO BLANCO 24" BOX LOW BRANCH	WUCOLS 3: LOW 20" TALL/15" WIDE SUN
LOMANDRA LONGIFOLIA "BREEZE" 5-GAL	WUCOLS 3: LOW 36" TALL/36" WIDE SUN/PART SUN
ROSMARINUS O. HUNTINGTON CARPET" 5-GAL	WUCOLS 3: LOW 16" TALL/72" WIDE SUN
CALLIANDRA CALIFORNICA "MEXICALI ROSE" 15-GAL	WUCOLS 3: LOW 48" TALL/54" WIDE SUN
AGAVE VILMORIANA OCTOPUS AGAVE 15-GAL	WUCOLS 3: LOW 48" TALL/54" WIDE SUN
AGAVE "BLUE GLOW" 15-GAL	WUCOLS 3: LOW 30" TALL/32" WIDE SUN
AGAVE GEMMIFLORA TWIN FLOWERED AGAVE 15-GAL	WUCOLS 3: LOW 32" TALL/36" WIDE SUN
SENNA ARTEMISIDIODES FEATHERY CASSIA 15-GAL	WUCOLS 3: LOW 60" TALL/72" WIDE SUN
SENECIO SERPENS BLUE CHALKS 1-GAL @ 18" O.C.	WUCOLS 3: LOW 18" TALL/22" WIDE SUN/PART SHADE
AG SOD BALL PARK SOD	WUCOLS 3: MED LAWN SUN

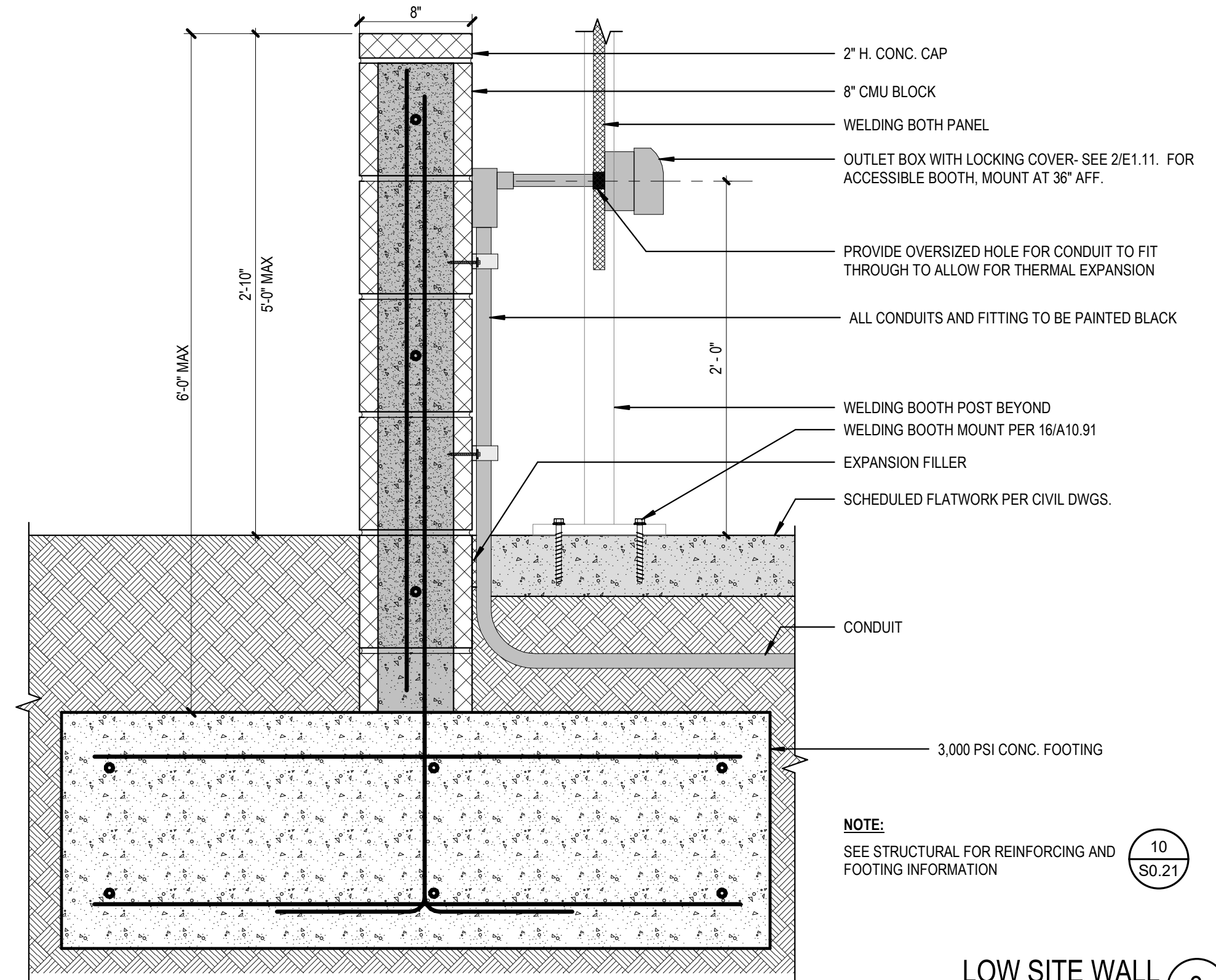
ALL SHRUB PLANTER AREAS NOT TO RECEIVE DECOMPOSED GRANITE SHALL BE MULCHED WITH AN APPROVED 2-1/2" DEEP LAYER OF A REDWOOD OR CEDAR BARK MULCH OR SHREDDED REDWOOD MULCH. TOP OF MULCH TO BE FLUSH WITH TOP OF ADJACENT PAVING.

LOCAL SOURCE GRANITE BOULDERS
42" - 60"
36" - 42"
18" - 36"
ALL BOULDERS TO BE SMOOTH W/NO
AND SHARP EDGES.

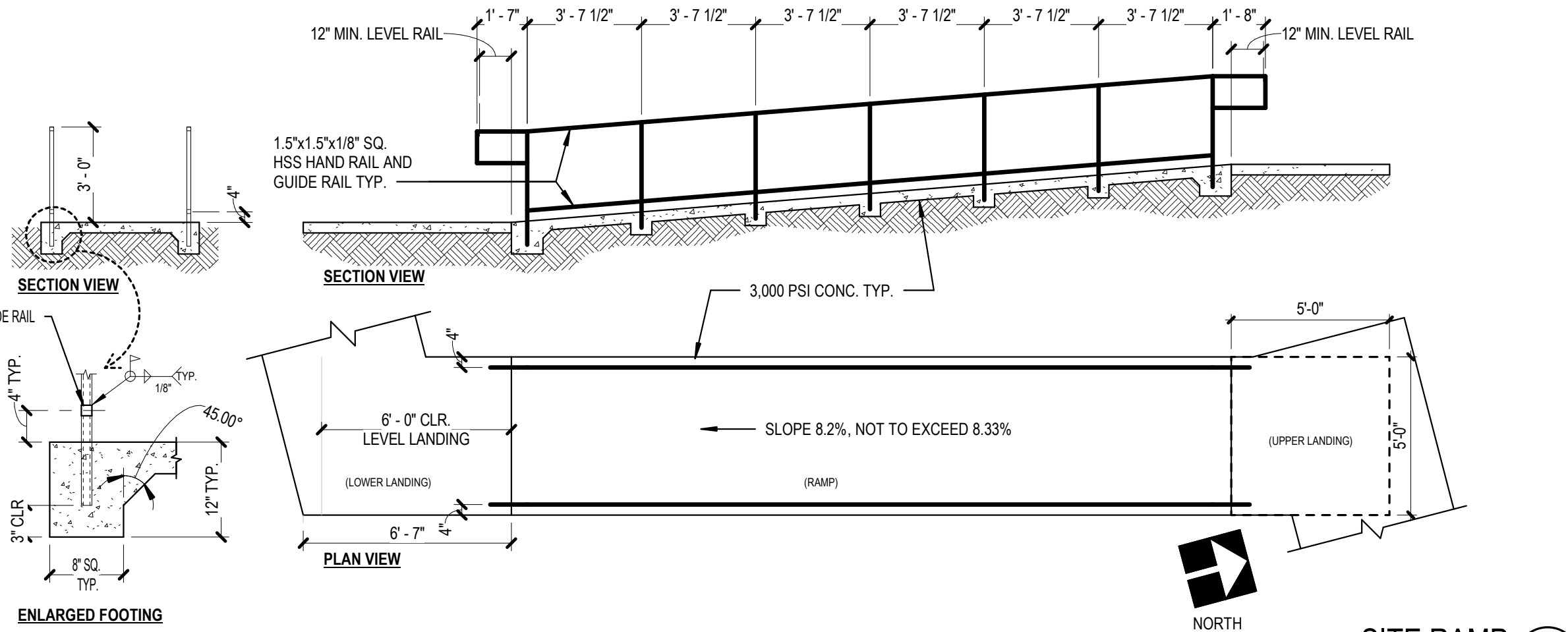




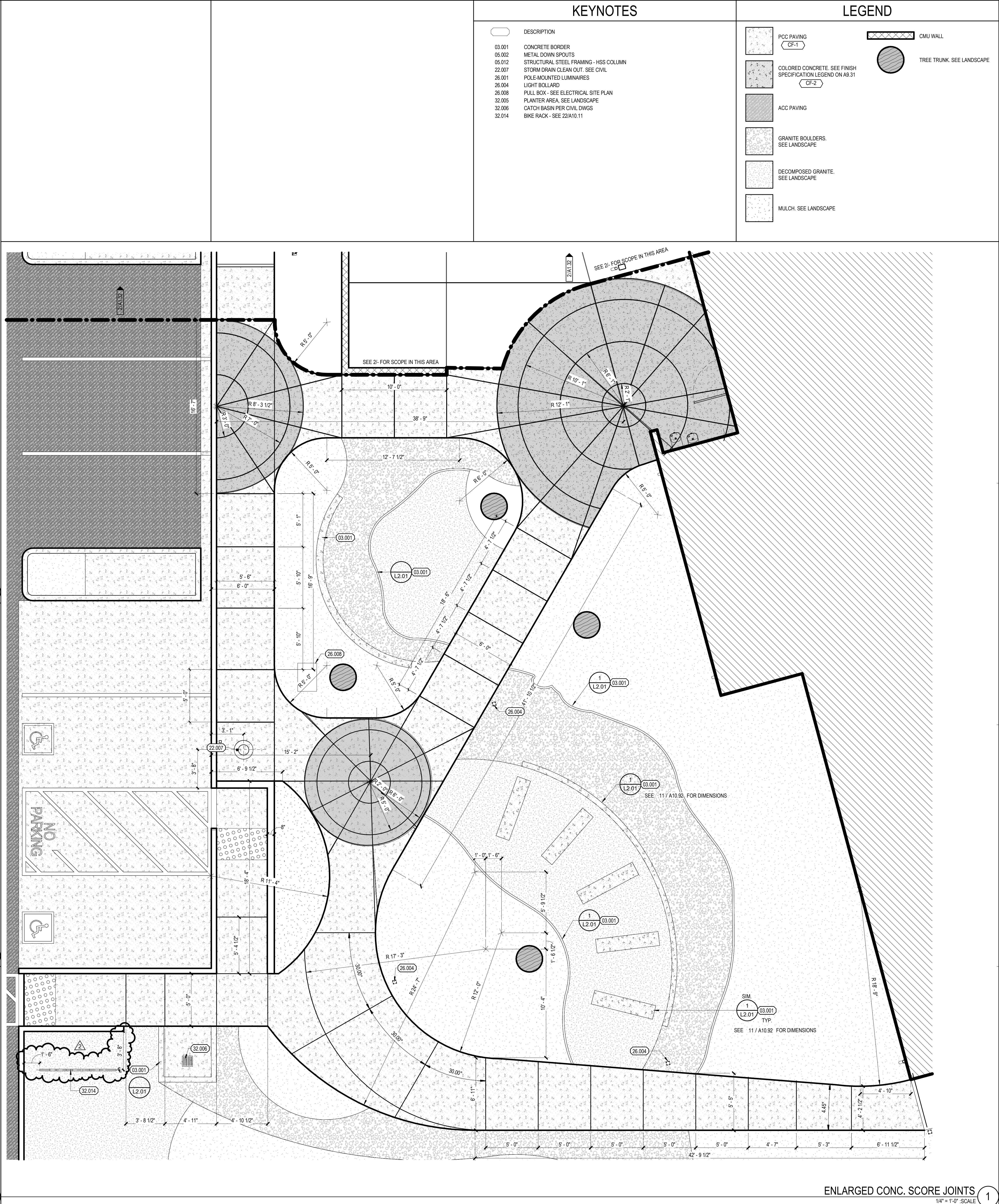
ENLARGED CONC. SCORE JOINTS-NORTH
1/4" = 1'-0" SCALE 2



LOW SITE WALL
1 1/2" = 1'-0" SCALE 3



SITE RAMP
1/4" = 1'-0" SCALE 10



ENLARGED CONC. SCORE JOINTS
1/4" = 1'-0" SCALE 1

KEYNOTES

DESCRIPTION	
03.001	CONCRETE BORDER
05.002	METAL DOWN SPOUTS
05.012	STRUCTURAL STEEL FRAMING - HSS COLUMN
22.007	STORM DRAIN CLEAN OUT - SEE CIVIL
26.001	POLE MOUNTED LUMINAIRES
26.004	LIGHT BOLLARD
26.008	PULL BOX - SEE ELECTRICAL SITE PLAN
32.005	PLANTER AREA, SEE LANDSCAPE
32.006	CATCH BASIN PER CIVIL DWGS
32.014	BIKE RACK - SEE 22/A10.11

LEGEND

	PCC PAVING		CMU WALL
	CF-1		TREE TRUNK, SEE LANDSCAPE
	COLORED CONCRETE, SEE FINISH SPECIFICATION LEGEND ON A9.31		
	CF-2		
	ACC PAVING		
	GRANITE BOULDERS, SEE LANDSCAPE		
	DECOMPOSED GRANITE, SEE LANDSCAPE		
	MULCH, SEE LANDSCAPE		

SITE PLAN - ENLARGED PLANS

CHAFFEY COLLEGE
INTECH WELDING FACILITY

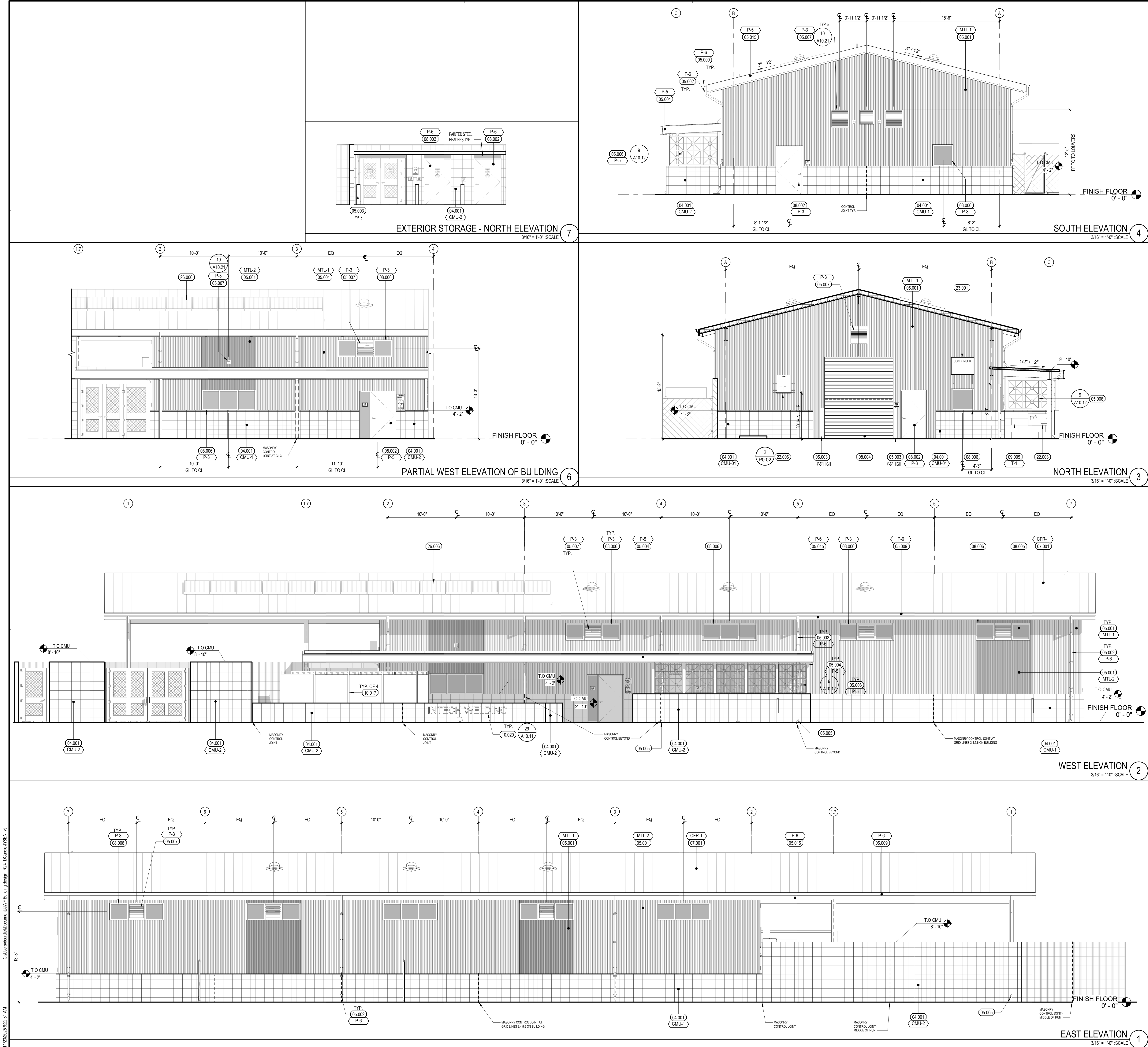
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SEALS

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ARCHITECTS

PROJECT NUMBER: 23-46162-00
PROJECT STATUS: 06/29/2025
SHEET ISSUED: 06/29/2025
DATE: 06/29/2025
DESCRIPTION: ADDENDUM 1
ADDENDUM 2

A1.32



KEYNOTES

DESCRIPTION	
04.001	CONCRETE UNIT MASONRY - PRECISION FACE
05.001	INSULATED METAL WALL PANEL
05.002	METAL DOWN SPOUTS
05.003	STEEL BOLLARD PER 16A10.11
05.004	STRUCTURAL STEEL MEMBER PER STURCT. DWG.
05.005	DOWNSPOUT OUTLET THROUGH CMU WALL
05.006	CUSTOM METAL SCREEN
05.007	METAL LOUVERS
05.009	RAIN GUTTER
05.015	GALVANIZED STEEL FASCIA
07.001	STANDING SEAM METAL ROOF
08.002	DOOR AND DOOR FRAME - SEE DOOR SCHEDULE
08.004	STEEL COILING DOOR
08.005	GLAZING
08.006	HOLLOW METAL FRAME WINDOW SYSTEM
09.005	PORCELAIN WALL TILE
10.017	WELDING BOOTH
10.020	12" METAL LETTER, 3/8" O.
22.003	PLUMBING FIXTURE - DRINKING FOUNTAIN
22.006	ELECTRIC WATER HEATER
23.001	MINI-SPLIT SYSTEM CONDENSER PER 9M0.03
26.006	PHOTOVOLTAIC PANELS

BASIS OF DESIGN
EXTERIOR MATERIAL SPECIFICATIONS
(COLOR AND FINISH)

04 MASONRY

CMU-1	CONCRETE UNIT MASONRY	
• FINISH:	PRECISION - VERTICAL SCORE, EXTERIOR SIDE (V51)	
• BOND PATTERN:	RUNNING BOND	
• COLOR:	ANGELUS BLOCKING CO. "SHOTBLAST - SILVER"	
• NOTES:	USED FOR BUILDING EXTERIOR WALLS, TYPICAL	

CMU-2	CONCRETE UNIT MASONRY	
• FINISH:	PRECISION - VERTICAL SCORE, EACH SIDE (V52)	
• BOND PATTERN:	RUNNING BOND	
• COLOR:	ANGELUS BLOCKING CO. "SHOTBLAST - SILVER"	
• NOTES:	USED FOR EXTERIOR SITE WALLS, TYPICAL	

05 METALS

MTL-1	INSULATED METAL PANEL	
TO MATCH:		
• MANUFACTURER:	METL SPAN	
• PROFILE:	"CF MESA"	
• COLOR:	"SMOKE GRAY"	

MTL-2	INSULATED METAL PANEL	
TO MATCH:		
• MANUFACTURER:	METL SPAN	
• PROFILE:	"CF MESA"	
• COLOR:	"TERRACOTTA"	

09 FINISHES

T-1	PORCELAIN WALL TILE	
TO MATCH:		
• MANUFACTURER:	TILEBAR	
• COLOR:	"PORTRAIT OCEAN BLUE"	
• SIZE:	12 x 24	

NOTE:
-ALL EXTERIOR-FACE MASONRY ALONG THE BUILDING PERIMETER SHALL RECEIVE FULL HEIGHT, GRAFFITI-RESISTANT COATING.
-ALL SITE WALLS SHALL RECEIVE FULL HEIGHT, GRAFFITI-RESISTANT COATING ON BOTH SIDES OF THE WALL. SEE SPECIFICATION SECTION 09 96 23 FOR BASIS OF DESIGN.

EXTERIOR ELEVATIONS

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SEALS

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PROJECT NUMBER: 23-46102-00
PROJECT STATUS: 08/29/2025
SHEET ISSUED: 08/29/2025
DATE: 08/29/2025
DESCRIPTION: ADDENDUM 2

A5.11

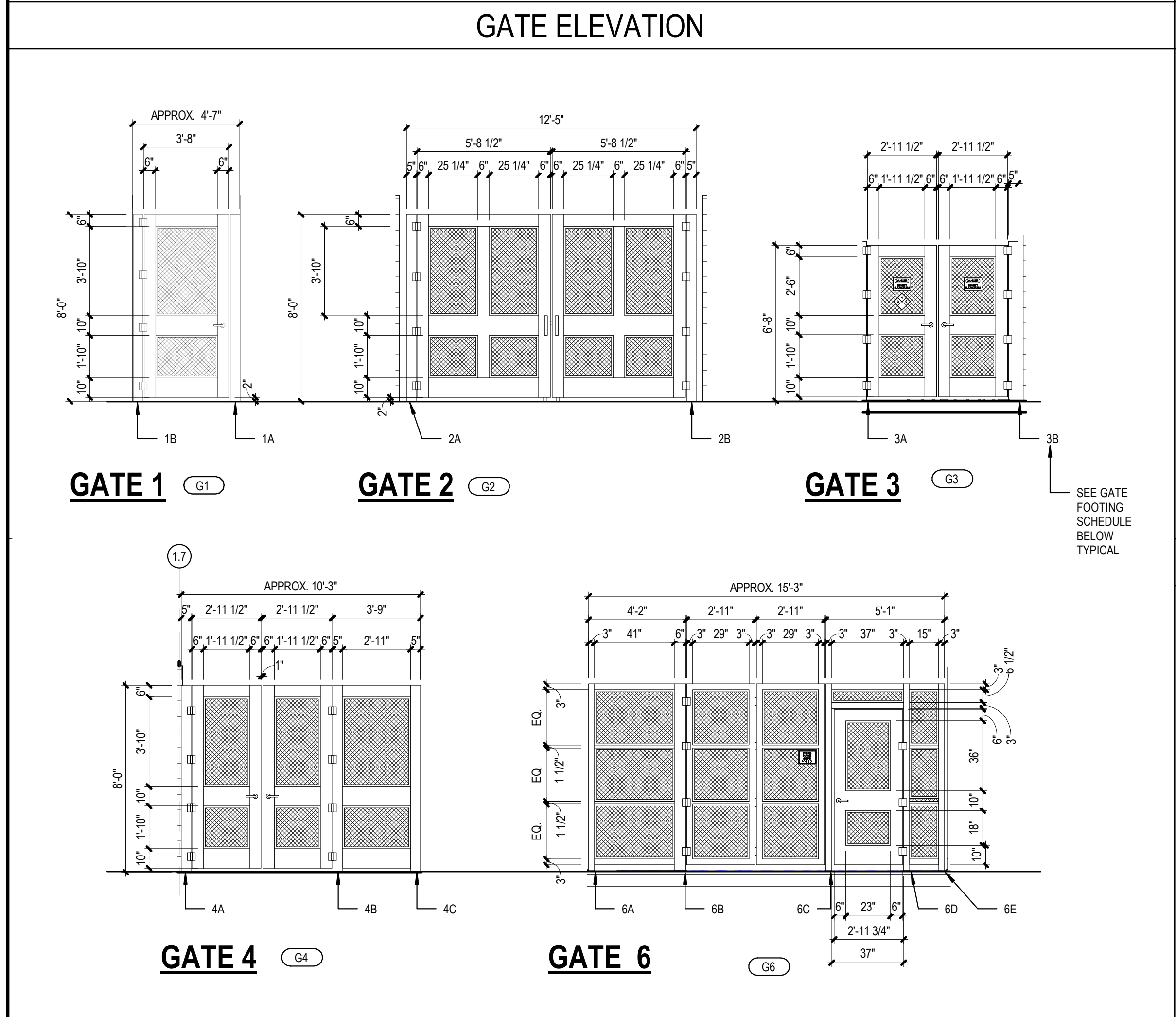
GATE SCHEDULE

MARK	HEIGHT	ROUGH WIDTH	DOOR EXIT DEVICE	HARDWARE SET	COMMENTS
G1	8'-0"	4'-8"		G01	
G2	8'-0"	12'-6"		G02	
G3	6'-8"	7'-0"		G03	
G4	8'-0"	7'-0"		G03	
G5	6'-8"	7'-0"		G04	
G6	6'-8"	3'-0"	No	G05	SINGLE, CHAINLINK
G7	10'-0"	6'-0"		G05	

NOTE: FOR GATE ELEVATIONS, SEE "GATE ELEVATIONS" ON SHEET A9.11

DOOR SCHEDULE

MARK	FROM:	TO:	DOOR PANELS				CARD READER	FRAME TYPE	FRAME MATERIAL	DOOR FIRE RATING	DOOR EXIT DEVICE	HARDWARE SET	COMMENTS
			WIDTH	HEIGHT	THICKNESS	TYPE							
101.1	WELDING FACILITY	EXTERIOR	2'-6"	7'-0"	0'-1 3/4"	B	HM	No	1	HM		01	
102.1	WELDING FACILITY	EXTERIOR	3'-6"	6'-10"	0'-1 3/4"	A	HM	No	1	HM		02	
102.2	WELDING FACILITY	EXTERIOR	3'-6"	7'-0"	0'-1 3/4"	A	HM	No	1	HM		03	
102.3	WELDING FACILITY	WELDING FACILITY	10'-0"	12'-0"	0'-1 1/16"	C	18GA. GALV	No	-	HM		06	
102.4	WELDING FACILITY	EXTERIOR	3'-8"	7'-0"	0'-1 3/4"	A	HM	No	1	HM		03	
103.1	WELDING FACILITY	RESTROOM	3'-0"	7'-0"	0'-1 3/4"	A	Default New Material	No	1	HM		04	
104.1	WELDING FACILITY	RESTROOM	3'-0"	7'-0"	0'-1 3/4"	A	HM	No	1	HM		04	
106.1	WELDING FACILITY	EXTERIOR TANK STORAGE	3'-0"	7'-0"	0'-1 3/4"	A	HM	No	1	HM		05	
107.1		STORAGE	3'-8"	6'-8"	0'-1 3/4"	A	HM	No	1	HM	60 min	07	FIELD VERIFY HEIGHT
107.2		STORAGE	3'-8"	6'-8"	0'-1 3/4"	A	HM	No	1	HM	60 min	07	FIELD VERIFY HEIGHT



GATE POST LOCATION PER GATE ELEVATION

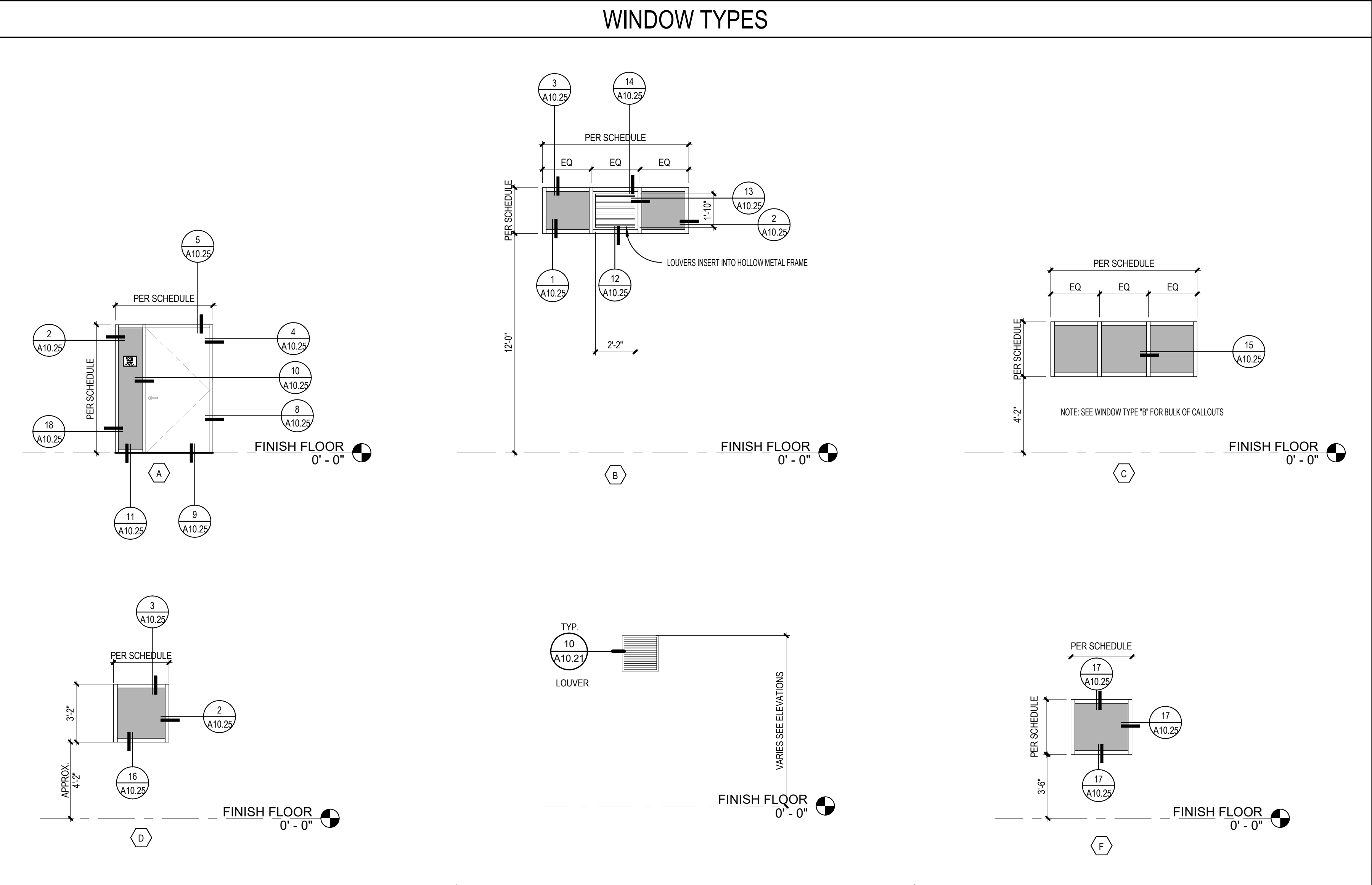
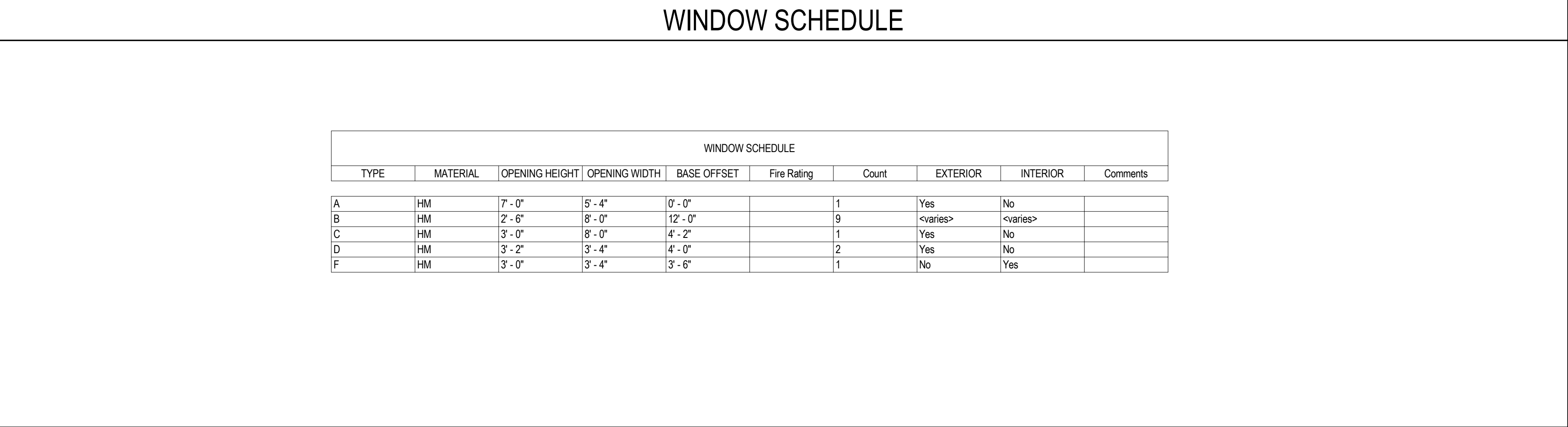
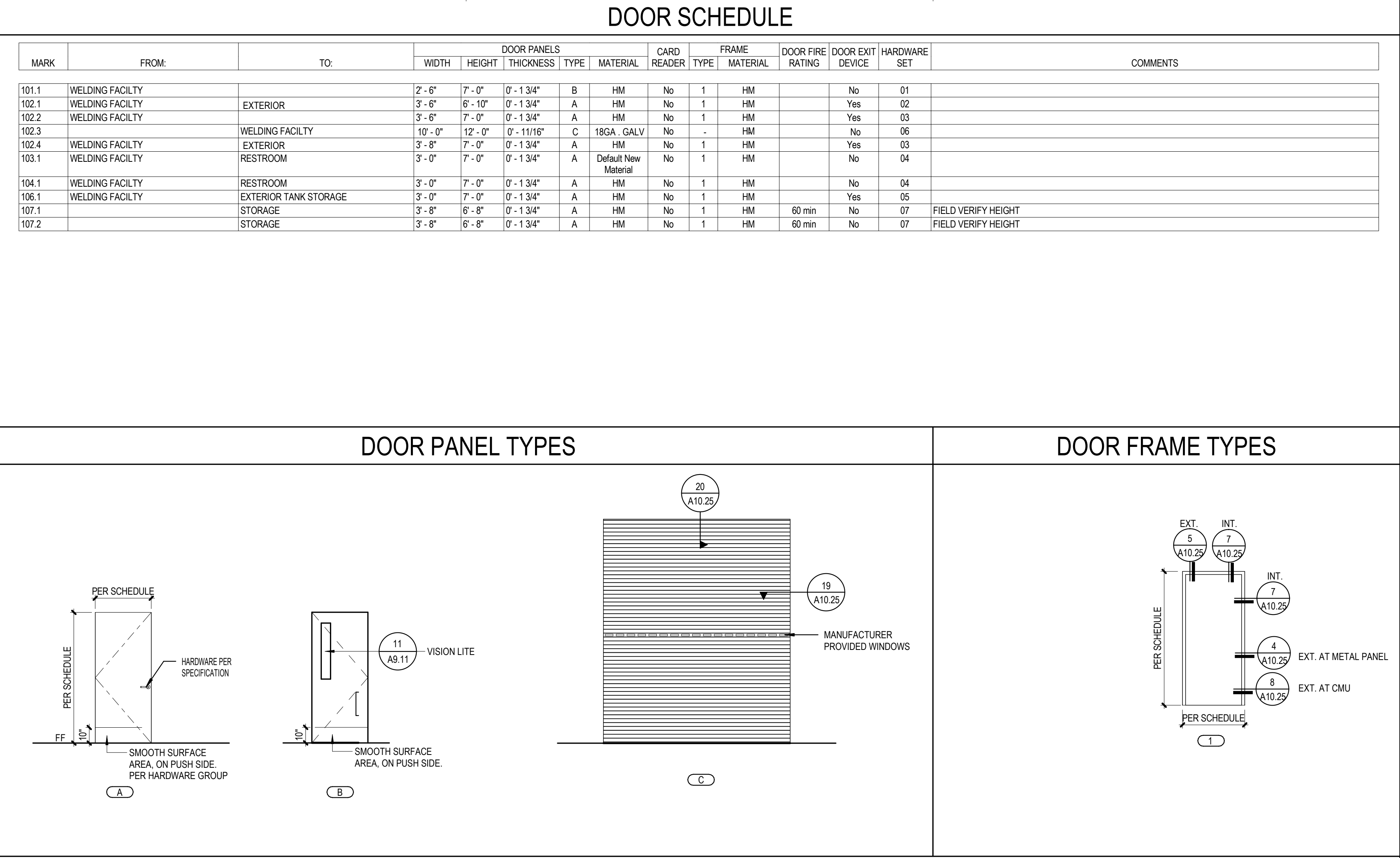
	FD	DIA.	REBAR REQUIREMENTS - ALL BARS #5 TYP. (SEE NOTE BELOW)	COMMENTS (SEE NOTE BELOW)
1A	36"	18"	1.	A.
1B	36"	24"	1.	A.
2A&2B	36"	18"	1.	A.
3A&3B	36"	18"	1.	A.
4A	36"	18"	1.	A.
4B	36"	18"	1.	-
4C	36"	18"	1.	B.
6A	36"	18"	1.	B.
6B	60"	48"	1.	-
6C&6D	36"	18"	1.	-
6E	36"	18"	1.	B.

REBAR REQUIREMENTS:
1. (3) #3 BARS TOP AND BOTTOM, AND EVERY 12" ON CENTER
COMMENTS:
A = COORDINATE WITH WALL FOOTING
B = COORDINATE WITH BUILDING FOOTING

GATE FOOTINGS

1/2" = 1'-0" SCALE

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DOOR SCHEDULE LEGEND

AL ALUMINUM	MG MIRROR GLASS
AM AUTOMATIC DOOR OPERATOR	MM METAL MESH
AS AS SPECIFIED	N/A NOT APPLICABLE
CG CLEAR GLASS	NR NOT RATED
CT CLEAR TEMPERED	PH PANIC HARDWARE
CR CARD READER	PL PLASTIC LAMINATE
CW CURTAIN WALL	PP PUSH PLATE (# OF PLATE)
D DOUBLE	PR PAIR OF DOOR LEAF SIZE
DE DELAYED EGRESS	PT PAINT (FIELD PAINT H.M. DOOR & FRAME)
DP DOOR POSITION SWITCH	RF REFER TO RADIO FREQUENCY
EL ELECTRICAL LOCK	S SINGLE
ET ENTRY TELEPHONE	SG STAIN GRADE WOOD VENEER
FA FIRE ALARM INTERFACE RELAY	SC SOLID CORE
FF FACTORY FURNISHED	SP STONE FRONT
FRG FIRE RATED GLASS	SS SAFETY GLASS
FRG FIRE RATED GLASS & FRAMING	SPG SPANDREL GLASS
GL GLASS	STL STEEL
HB HELP BUTTON	SM SMOKE BARRIER SEAL
HM HOLLOW METAL	T TEMPERED
I INTERCOM	TC TINTED GLASS
IG INSULATED GLASS	UC UNDERCUT
IP INFILL PANEL	VA VINYL ACRYLIC CLAD FINISH
K SCRAMBLED KEYPAD	WF WELDED STEEL FINISH
WF WELDED STEEL FRAME	WG WIGGLY GLASS
LA LOCAL ALARM	WD WOOD (SOLID CORE)
LE LOWE INSULATED GLASS	WW WINDOW WALL

NOTE: REFER TO 'SAFETY GLAZING' NOTES FOR REQUIRED LOCATIONS FOR SAFETY GLAZING.

SCHEDULE - DOORS, FRAMES, AND WINDOW SCHEDULES

CHAFFEE COLLEGE
INTECH WELDING FACILITY

9400 CHERRY AVENUE, FONTANA, CA 92335

PROJECT NUMBER: 23-46102-00

PROJECT STATUS: 08/20/2025

SHEET STATUS: 08/20/2025

DELTA DATE: 08/20/2025

DESCRIPTION: ADDENDUM 1

ADDENDUM 2

sgn ARCHITECTS

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