

**CITY OF PORTERVILLE**  
CALIFORNIA  
COMMUNITY CENTER & PARK PROJECT  
PROJECT NO: 89-9411-88  
BID NO: 24/25-CP1977

BEGINNING OF ADDENDUM No. 6

Date: December 26, 2024

**ITEM No. 1**

Updated Specification Section 06 4100 Architectural Wood Casework is attached herein for incorporation into the project manual.

**ITEM No. 2**

Updated Specification Section 07 4646 Fiber-Cement Siding is attached herein for incorporation into the project manual.

**ITEM No. 3**

Updated Specification Section 07 5400 Thermoplastic Membrane Roofing is attached herein for incorporation into the project manual.

**ITEM No. 4**

Updated Specification Section 05 5133 Metal Ladders is attached herein for incorporation into the project manual.

**ITEM No. 5**

Updated Specification Section 07 7200 Roof Accessories is attached herein for incorporation into the project manual.

**ITEM No. 6**

Updated Specification Section 09 5100 Acoustical Ceilings is attached herein for incorporation into the project manual.

**ITEM No. 7**

Specification Section 09 5153 Direct-Applied Acoustical Panels is attached herein for incorporation into the project manual.

**ITEM No. 8**

Specification Section 09 5446 Acoustic Panel Blades is attached herein for incorporation into the project manual.

**ITEM No. 9**

Updated Specification Section 10 4400 Fire Protection Specialties is attached herein for incorporation into the project manual.

**ITEM No. 10**

Updated Specification Section 11 6813 Playground Equipment is attached herein for incorporation into the project manual.

**ITEM No. 11**

Updated Specification Section 12 3600 Countertops is attached herein for incorporation into the project manual.

**ITEM No. 12**

Updated Specification Section 13 2830 Racquetball and Squash Courts is attached herein for incorporation into the project manual.

**ITEM No. 13**

Updated Specification Section 32 1813 Synthetic Grass Surfacing is attached herein for incorporation into the project manual.

**ITEM No. 14**

Plan sheets S-105, S213, S-221, S-401 have been updated and bubbled for reference. They are attached herein for incorporation into the plan set.

**ITEM No. 15**

Plan sheets A101, A102, A301-A303, A406, A412, A414, A501, A511, A513, A601-602, A901, A903, A906-907, A921, and A941 have been updated and bubbled for reference. They are attached herein for incorporation into the plan set.

**ITEM No. 16**

Plan sheets LC001, LC100-110, LC501, LI001, LI101-LI110, LI501-503, and LP501 have been updated and bubbled for reference. They are attached herein for incorporation into the plan set.

**ITEM No. 17**

Plan sheets EG101-105, ES101-104, E101-103, E201-202, E301-302, E401-403, E501-506, E601, TG101, TS101, and T101 have been updated and bubbled for reference. They are attached herein for incorporation into the plan set.

**END OF ADDENDUM No. 6**

/s/ Janie Rodriguez, Purchasing Agent

This addendum must be signed and submitted with the sealed bid proposal.

Bid proposals submitted without this sheet will not be considered.

Firm: \_\_\_\_\_

By: \_\_\_\_\_

\_\_\_\_\_  
Authorized Signature

Date: \_\_\_\_\_

**Section 06 4100  
Architectural Wood Casework**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. Specially fabricated cabinet units.
- B. Plastic laminate countertops.
- C. Hardware.

**1.02 RELATED REQUIREMENTS**

- A. Section 05 5000 - Metal Fabrications - supports and brackets
- B. Section 06 1000 - Rough Carpentry: Support framing, grounds, and concealed blocking.
- C. Section 08 8000 - Glazing: Glass for casework.
- D. Section 07 9005 - Joint Sealers
- E. Section 12 3600 - Countertops.
- F. Division 22 Plumbing
- G. Division 23 Mechanical
- H. Division 26 Electrical

**1.03 REFERENCE STANDARDS**

- A. AWI/AWMA/CI (AWS) - Architectural Woodwork Standards, 2nd Edition; 2014, with Errata (2016).
- B. AWMA/CI (NAAWS) - North American Architectural Woodwork Standards; 2021, with Errata.
- C. NEMA LD 3 - High-Pressure Decorative Laminates; 2005.
- D. CI (CCP) - Certified Compliance Program (CCP); Current Edition.
- E. CI (MCP) - Monitored Compliance Program (MCP); Current Edition.

- F. ASTM D 1037 - 99 Standard Test Methods for Evaluating Properties of Wood-Base Fiber and Particle Panel Materials

#### **1.04 SUBMITTALS**

- A. See Section 01 3300 - Submittals for submittal procedures.
- B. Shop Drawings: Indicate materials, component profiles and elevations, assembly methods, joint details, fastening methods, accessory listings, hardware location and schedule of finishes. Shop Drawings shall have WI, Certified Compliance Label affixed to first page of drawing set.
- C. Product Data: Provide data for hardware accessories. Provide MSDS Sheets for all composite wood and agrifiber products, adhesives, and sealants used.
- D. Samples: Submit actual sample items of proposed pulls, \_\_\_\_\_, hinges, plastic laminates, shelf standards, plastic laminates, locksets, and \_\_\_\_\_, demonstrating hardware design, quality, and finish.

#### **1.05 QUALITY ASSURANCE**

- A. Perform work in accordance with WI Manual of Millwork, Custom quality, unless other quality is indicated for specific items. The millwork supplier shall issue a W.I. Certificate Compliance Certificate indicating the grade of millwork products to be furnished for this job and certifying that they will fully meet all the requirements of the grade specified. Each unit of casework shall bear the W.I. Certificate Compliance label. Each plastic laminate countertop shall bear the W.I. Certified Compliance label. Upon the completion of the installation, a W.I. Certified Compliance shall be issued for the installation. The type of construction used must meet the seismic force requirements of Title 24.

#### **1.06 DELIVERY, STORAGE, AND HANDLING**

- A. Protect units from moisture damage.
- B. Delivery shall only be made when the area of operation is enclosed, all wet work is dry, all overhead work is complete, and the area broom clean.

#### **1.07 FIELD CONDITIONS**

- A. During and after installation of custom cabinets, maintain temperature and humidity conditions in building spaces at same levels planned for occupancy.
- B. The HVAC system shall be on and functioning, and the architectural millwork shall be acclimated to these conditions for 72 hours prior to installation.

## **PART 2 PRODUCTS**

### **2.01 CABINETS**

- A. Quality Standard: Custom Grade, in accordance with AWI/AWMAC/WI (AWS) or AWMAC/WI (NAAWS), unless noted otherwise.
- B. Cabinets:
  - 1. Finish - Exposed Exterior Surfaces: Decorative laminate.
  - 2. Finish - Exposed Interior Surfaces: Decorative laminate.
  - 3. Finish - Semi-Exposed Surfaces: Wood
  - 4. Finish - Concealed Surfaces: Manufacturer's option.
  - 5. Door and Drawer Front Edge Profiles: Radius edge with thick applied band.
  - 6. Casework Construction Type: Type A - Frameless.
  - 7. Cabinet Design Series: As indicated on drawings.
  - 8. Adjustable Shelf Loading: 50 psf.
  - 9. Cabinet Doors and Drawer Fronts: Flush style.

### **2.02 WOOD-BASED COMPONENTS**

- A. Wood fabricated from old growth timber is not permitted.
- B. Provide sustainably harvested wood, certified or labeled; see Section 01 6000.
- C. Provide wood that is FSC certified
- D. Hardwood Faced Plywood: HPVA HP-1; graded in accordance with WI Manual of Millwork, core of lumber; exterior glue ; thickness 3/4";
  - 1. Exposed Open Shelving
  - 2. Semi Exposed Shelving
- E. Particleboard shall not be used
- F. Medium Density Fiberboard (MDF): ANSI A208.2; type as specified in WI Manual of Millwork; composed of wood fibers pressure bonded with moisture resistant formaldehyde free adhesive to suit application; sanded faces; thickness as required.
  - 1. Medex, as manufactured by Sierra Pine or approved equal
  - 2. Located at all casework construction, except as identified above.

### **2.03 Panel Core Materials**

### **2.04 LAMINATE MATERIALS**

- A. Manufacturers:
  - 1. Formica Corporation; \_\_\_\_: [www.formica.com/#sle](http://www.formica.com/#sle).
  - 2. Panolam Industries International, Inc; \_\_\_\_: [www.panolam.com/#sle](http://www.panolam.com/#sle).

3. Wilsonart LLC; \_\_\_\_: [www.wilsonart.com/#sle](http://www.wilsonart.com/#sle).
  4. Or approved equal, prior to bidding
- B. High Pressure Decorative Laminate (HPDL): NEMA LD 3, types as recommended for specific applications.
- C. High Pressure Decorative Laminate (HPDL): NEMA LD 3, types as recommended for all exposed applications as scheduled.
1. Post-Formed Horizontal Surfaces: HGP, 0.039 inch nominal thickness, through color, \_\_\_\_ color, finish as indicated.
- D. Melamine finish at all semi-exposed cabinet shelving, divisions an faces.
- E. Interior faces of cabinet doors to be faced with the same material as exposed surfaces.

## **2.05 COUNTERTOPS**

- A. Countertops: See Section 12 3600.

## **2.06 ACCESSORIES**

- A. Adhesive: Type recommended by WI to suit application.
- B. Plastic Edge Banding: Extruded PVC, convex shaped; smooth finish; self locking serrated tongue; of width to match component thickness.
1. Color: As selected by Architect from manufacturer's standard range.
  2. Use at all exposed shelf edges.
  3. Use at door and drawer edges.
  4. All adhesives must meet or exceed the VOC limits of the South Coast Air Quality Management District Rule # 1168 ([http://www.aqmd.gov/rules/reg/reg11\\_tofc.html](http://www.aqmd.gov/rules/reg/reg11_tofc.html))
- C. Glass: Type A, see Section 08 8000.
- D. Fasteners: Size and type to suit application.
- E. Bolts, Nuts, Washers, Lags, Pins, and Screws: Of size and type to suit application; galvanized or chrome-plated finish in concealed locations and stainless steel or chrome-plated finish in exposed locations.
- F. Concealed Joint Fasteners: Threaded steel.
- G. Grommets: Standard plastic grommets for cut-outs, in color to match adjacent surface.

## **2.07 HARDWARE**

- A. Adjustable Shelf Supports: Standard side-mounted system using multiple holes for pin supports and coordinated self rests, satin chrome finish, for nominal 1 inch spacing adjustments.

1. Standards, SP-1820, manufactured by Sugatsune or approved equal.
  2. Supports; SP-15, manufactured by Sugatsune or approved equal.
- B. Drawer and Door Pulls: matte chrome zinc alloy pull handle.
1. Product: EG-36160 MC manufactured by Sugatsune or approved equal
- C. Keyed Cabinet Locks: Keyed cylinder, two keys per lock, master keyed, steel with satin finish.
1. Pin tumbler cylinder cam lock, National Lock 8102 Series or approved equal.
  2. Keying as selected. All locks shall be installed in a hole shaped the same shape as the cylinder of the lock to eliminate rotation. Round lock cylinders installed in round holes will not be allowed.
  3. Cabinet locks are to be installed at the following cabinet doors with the following requirements:
    - a. All locks will be keyed with one master key and one unique key.
    - b. Provide 4 copies of each unique key and a total of eight copies of the master key.
    - c. Bunkroom Lockers: Unique keys for each locker door.
    - d. Kitchen Pantry Cabinets: Unique keys for each separate full height "pantry" cabinet door.
- D. Cabinet Catches and Latches:
1. Product: MC0099 manufactured by Sugatsune
  2. Product: 323A92 manufactured by Ives
  3. Substitutions: See Section 01600 - Product Requirements.
- E. Drawer Slides:
1. Type: Full extension.
  2. Static Load Capacity: Commercial grade.
  3. Mounting: Side mounted.
  4. Stops: Integral type.
  5. Features: Provide self closing/stay closed type.
  6. Manufacturers:
    - a. Accuride International, Inc; Light-Duty Drawer Slides: [www accuride.com/#sle](http://www accuride.com/#sle).
    - b. Hettich America, LP; \_\_\_\_\_: [www.hettich.com/#sle](http://www.hettich.com/#sle).
    - c. Knappe & Vogt Manufacturing Company; Light-Duty Drawer Slides: [www.knapeandvogt.com/#sle](http://www.knapeandvogt.com/#sle).
    - d. Substitutions: See Section 01 6000 - Product Requirements.
- F. Hinges: European style concealed self-closing type, steel with polished finish.
1. Manufacturers:
    - a. Rockford Process Control, Inc: [rockfordprocess.com](http://rockfordprocess.com) - 450 series.
    - b. Or approved equal,
    - c. Substitutions: See Section 01 6000 - Product Requirements.
- G. Silencers: Clear vinyl silencers to be installed at each cabinet door
- H. Countertop Cable Grommets:
1. Color: Black, Verify with Architect
  2. Diameter: 3"

3. Features: Grommet to include cap

I. Wardrobe Hook

1. # 582 Double, Aluminum, Manufactured by Ives or approved equal.

## **2.08 FABRICATION**

A. Cabinets shall be fabricated to Woodwork Institute standards

1. Grade: Premium

B. Exceptions to WI standards

1. Wall Hung Cabinets : Depth 14 inches

2. Storage, Janitor, Closet and Utility Room Cabinets shall be of the same construction as typical cabinets.

3. Shelves shall be designed as per schools and libraries, for a 50lb per square foot live load as per table 15-1.

4. Exterior Edges: Include doors, drawer fronts, and front edge of vertical end panels and leg panels. Exterior edges are to be edged with heavy-duty 3mm PVC edgebanding, color to match door or drawer front.

5. Locate grommets as directed by Owner. Assume one per workstation

C. Assembly: Shop assemble cabinets for delivery to site in units easily handled and to permit passage through building openings.

D. Edging: Fit shelves, doors, and exposed edges with specified edging. Do not use more than one piece for any single length.

E. Fitting: When necessary to cut and fit on site, provide materials with ample allowance for cutting. Provide matching trim for scribing and site cutting.

F. Plastic Laminate: Apply plastic laminate finish in full uninterrupted sheets consistent with manufactured sizes. Fit corners and joints hairline; secure with concealed fasteners. Slightly bevel arises. Locate counter butt joints minimum 2 feet from sink cut-outs.

1. Apply laminate backing sheet to reverse side of plastic laminate finished surfaces.

2. Cap exposed plastic laminate finish edges with material of same finish and pattern.

G. Provide cutouts for plumbing fixtures. Verify locations of cutouts from on-site dimensions. Prime paint cut edges.

## **PART 3 EXECUTION**

### **3.01 EXAMINATION**

A. Verify adequacy of backing and support framing.

B. Verify location and sizes of utility rough-in associated with work of this section.

### **3.02 CASEWORK INSTALLATION**

- A. Install work in accordance with AWI/AWMAC/WI (AWS) or AWMAC/WI (NAAWS) requirements for grade indicated.
- B. Set and secure custom cabinets in place, assuring that they are rigid, plumb, and level.
- C. Use fixture attachments in concealed locations for wall mounted components.
- D. Use concealed joint fasteners to align and secure adjoining cabinet units.
- E. Carefully scribe casework abutting other components, with maximum gaps of 1/32 inch. Do not use additional overlay trim for this purpose.
- F. Secure cabinets to floor using appropriate angles and anchorages.
- G. Cabinets set on slab on grade concrete or in wet or damp locations shall be placed on water resistant base material only.
- H. Countersink anchorage devices at exposed locations. Conceal with solid wood plugs of species to match surrounding wood; finish flush with surrounding surfaces.
- I. Secure upper cabinets, counter bases, full height cabinets, and counter partitions to floor and wall using appropriate angles and anchorages to obtain seismic restraint per Title 24 Section 2336

### **3.03 ADJUSTING**

- A. Adjust moving or operating parts to function smoothly and correctly.

### **3.04 CLEANING**

- A. Clean casework, counters, shelves, hardware, fittings, and fixtures.
- B. Defective work shall be repaired or replaced as directed by the Owner or his representative upon completion of installation.
- C. Shop finished surfaces shall be cleaned, touched-up as required and damaged or unrepairable areas shall be refinished or replaced as directed.
- D. Clean cabinetry free of debris. Installer shall be responsible for the immediate removal of all trash, crating, etc., associated with the cabinet installation.

**END OF SECTION 06 4100**

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**Section 07 4646  
Fiber-Cement Siding**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. Fiber-cement siding.

**1.02 RELATED REQUIREMENTS**

- A. Section 05 4000 - Cold-Formed Metal Framing: Water-resistive barrier under siding.
- B. Section 06 1000 - Rough Carpentry: Siding substrate.
- C. Section 07 2500 - Weather Barriers: Water-resistive barrier under siding.
- D. Section 09 9113 - Exterior Painting: Field painting.

**1.03 REFERENCE STANDARDS**

- A. ASTM C1186 - Standard Specification for Flat Fiber-Cement Sheets; 2022, with Editorial Revision (2023).

**1.04 SUBMITTALS**

- A. See Section 01 3300 - Submittals for submittal procedures.
- B. Product Data: Submit manufacturer's data sheets on each product to be used, including:
  - 1. Manufacturer's requirements for related materials to be installed by others.
  - 2. Preparation instructions and recommendations.
  - 3. Storage and handling requirements and recommendations.
  - 4. Installation methods, including nail patterns.
- C. Test Report: Applicable model code authority evaluation report (e.g. ICC-ES).
- D. Manufacturer's qualification statement.
- E. Installer's qualification statement.
- F. Warranty: Submit copy of manufacturer's warranty, made out in Owner's name, showing that it has been registered with manufacturer.

### **1.05 QUALITY ASSURANCE**

- A. Installer Qualifications: Company specializing in performing work of type specified in this section with not less than three years of experience.

### **1.06 DELIVERY, STORAGE, AND HANDLING**

- A. See Section 01 7419 - Construction Waste Management and Disposal for packaging waste requirements.
- B. Deliver and store materials in manufacturer's unopened packaging, with labels intact, until ready for installation.
- C. Store materials under dry and waterproof cover, well ventilated, and elevated above grade on a flat surface.

### **1.07 WARRANTY**

- A. See Section 01 7800 - Closeout Submittals for additional warranty requirements.
- B. Manufacturer Warranty: Provide manufacturer warranty for years as indicated under Fiber-Cement Siding article sub-headings for "Warranty". Complete forms in Owner's name and register with manufacturer.

## **PART 2 PRODUCTS**

### **2.01 FIBER-CEMENT SIDING**

- A. Panel Siding: Horizontally oriented panels made of cement and cellulose fiber formed under high pressure with integral surface texture, complying with ASTM C1186, Type A, Grade II; with machined edges, for nail attachment.
  - 1. Texture: As indicated on drawings.
  - 2. Length (Height): 96 inches, nominal.
  - 3. Width: 48 inches.
  - 4. Thickness: 5/16 inch, nominal.
  - 5. Finish: Factory applied stain.
  - 6. Color: As indicated on drawings.
  - 7. Warranty: 30 year limited; transferable.
  - 8. Products:
    - a. James Hardie Building Products, Inc; \_\_\_\_\_: [www.jameshardie.com/#sle](http://www.jameshardie.com/#sle).
    - b. Substitutions: See Section 01 6000 - Product Requirements.

### **2.02 ACCESSORIES**

- A. Trim: Architectural Trim.
  - 1. Metal Trim: Extruded aluminum alloy 6063-T5 temper.

- a. Finish: Clear anodized.
  - 1) Color: As selected by Architect.
- b. Metal Trim, Multi-Purpose:
  - 1) Dimensions, Profile, Type, and Layout: As indicated on drawings.
  - 2) Products:
    - (a) James Hardie Building Products, Inc; Metal Trim for Fiber-Cement Siding: [www.jameshardie.com/#sle](http://www.jameshardie.com/#sle).
    - (b) Substitutions: See Section 01 6000 - Product Requirements.
- B. Fasteners: Galvanized or corrosion resistant; length as required to penetrate, 1-1/4 inches, minimum.
- C. Joint Sealer: As specified in Section 07 9005.

### **PART 3 EXECUTION**

#### **3.01 EXAMINATION**

- A. Examine substrate, clean and repair as required to eliminate conditions that would be detrimental to proper installation.
- B. Verify that water-resistant barrier has been installed over substrate completely and correctly; see Section 05 4000.
- C. Do not begin until unacceptable conditions have been corrected.
- D. If substrate preparation is responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

#### **3.02 PREPARATION**

- A. Protect surrounding areas and adjacent surfaces during execution of this work.
- B. Install Sheet Metal Flashing:
  - 1. Above door and window trim and casings.
  - 2. Above horizontal trim in field of siding.

#### **3.03 INSTALLATION**

- A. Install siding in accordance with manufacturer's instructions and recommendations.
  - 1. Read warranty and comply with terms necessary to maintain warranty coverage.
  - 2. Install in accordance with conditions stated in model code evaluation report applicable to location of project.
  - 3. Use trim details as indicated on drawings.
  - 4. Touch up field cut edges before installing.
  - 5. Pre-drill nail holes if necessary to prevent breakage.
- B. Over Wood and Wood-Composite Sheathing: Fasten siding through sheathing into studs.

- C. Joints in Vertical Siding: Install Z-flashing in horizontal joints between successive courses of vertical siding.
- D. Do not install siding less than 6 inches from ground surface, or closer than 1 inch to roofs, patios, porches, and other surfaces where water may collect.
- E. After installation, seal joints except lap joints of lap siding; seal around penetrations, and paint exposed cut edges.

#### **3.04 CLEANING**

- A. See Section 01 7000 - Execution and Closeout Requirements for additional requirements.
- B. Clean faced panels in accordance with manufacturer's maintenance instructions, using cleaning materials and methods acceptable to manufacturer.

#### **3.05 PROTECTION**

- A. Protect installed products until Date of Substantial Completion.
- B. Touch-up, repair or replace damaged products before Date of Substantial Completion.

**END OF SECTION 07 4646**

**Section 07 5400  
Thermoplastic Membrane Roofing**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. Mechanically attached system with thermoplastic roofing membrane.
- B. Deck sheathing.
- C. Cover boards.
- D. Flashings.
- E. Roofing stack boots and walkway pads.

**1.02 RELATED REQUIREMENTS**

- A. Section 06 1000 - Rough Carpentry: Plywood roof deck

**1.03 REFERENCE STANDARDS**

- A. ASTM C165 - Standard Test Method for Measuring Compressive Properties of Thermal Insulations; 2023.
- B. ASTM C726 - Standard Specification for Mineral Wool Roof Insulation Board; 2017.
- C. ASTM C1177/C1177M - Standard Specification for Glass Mat Gypsum Substrate for Use as Sheathing; 2017.
- D. ASTM C1289 - Standard Specification for Faced Rigid Cellular Polyisocyanurate Thermal Insulation Board; 2023a.
- E. ASTM D751 - Standard Test Methods for Coated Fabrics; 2019.
- F. ASTM D6878/D6878M - Standard Specification for Thermoplastic Polyolefin-Based Sheet Roofing; 2021.
- G. ASTM E96/E96M - Standard Test Methods for Gravimetric Determination of Water Vapor Transmission Rate of Materials; 2023.
- H. ASTM E1980 - Standard Practice for Calculating Solar Reflectance Index of Horizontal and Low-Sloped Opaque Surfaces; 2011 (Reapproved 2019).
- I. FM (AG) - FM Approval Guide; Current Edition.

- J. FM DS 1-28 - Wind Design; 2015, with Editorial Revision (2024).
- K. NRCA (RM) - The NRCA Roofing Manual; 2023.
- L. NRCA (WM) - The NRCA Waterproofing Manual; 2021.
- M. UL (DIR) - Online Certifications Directory; Current Edition.
- N. UL (FRD) - Fire Resistance Directory; Current Edition.

#### **1.04 ADMINISTRATIVE REQUIREMENTS**

- A. Preinstallation Meeting: Convene one month before starting work of this section.
  - 1. Review preparation and installation procedures and coordinating and scheduling required with related work.

#### **1.05 SUBMITTALS**

- A. See Section 01 3300 - Submittals for submittal procedures.
- B. Product Data: Provide data indicating membrane materials, flashing materials, insulation, and fasteners.
- C. Manufacturer's Installation Instructions: Indicate membrane seaming precautions and perimeter conditions requiring special attention.
- D. Manufacturer's Field Reports: Indicate procedures followed, ambient temperatures, humidity, wind velocity during application, and supplementary instructions given.
- E. Manufacturer's qualification statement.
- F. Installer's qualification statement: Installer shall provide written documentation from the manufacturer of their authorization to install the roof system, and eligibility to obtain the warranty specified in this section.
- G. Warranty Documentation:
  - 1. Submit manufacturer warranty and ensure that forms have been completed in Owner's name and registered with manufacturer.
  - 2. Submit installer's written verification that installation complies with warranty conditions for waterproof membrane.

#### **1.06 QUALITY ASSURANCE**

- A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section with minimum three years of documented experience.
- B. Installer Qualifications: Installer shall be authorized by the manufacturer to install the roof system, and eligible to obtain the specified warranty.

- C. Final Inspection: Manufacturer's representative shall provide a comprehensive final inspection after completion of the roof system. All application errors must be addressed and final punch list completed.
- D. Manufacturer's representative shall provide a comprehensive final inspection after completion of the roof system. All application errors must be addressed and final punch list completed.

### **1.07 DELIVERY, STORAGE, AND HANDLING**

- A. Deliver materials in manufacturer's original containers, dry and undamaged, with seals and labels intact, unless otherwise indicated.
- B. Store materials in weather protected environment, clear of ground and moisture.
- C. Ensure storage and staging of materials does not exceed static and dynamic load-bearing capacities of roof decking.
- D. Protect foam insulation from direct exposure to sunlight.

### **1.08 FIELD CONDITIONS**

- A. Do not apply roofing membrane during unsuitable weather.
- B. Do not apply roofing membrane when ambient temperature is below 40 degrees F.
- C. Do not apply roofing membrane to damp or frozen deck surface or when precipitation is expected or occurring.
- D. Do not expose materials vulnerable to water or sun damage in quantities greater than can be weatherproofed the same day.
- E. Schedule applications so that no partially completed sections of roof are left exposed at end of workday.

### **1.09 WARRANTY**

- A. See Section 01 7800 - Closeout Submittals for additional warranty requirements.
- B. System Warranty: Provide manufacturer's system warranty agreeing to repair or replace roofing that leaks or is damaged due to wind or other natural causes.
  - 1. Warranty Term: 25 years.
  - 2. For repair and replacement include costs of both material and labor in warranty.
    - a. Scope of coverage:
      - 1) Ordinary wear and tear of the elements
      - 2) Manufacturing defect in roofing materials.
      - 3) Defective workmanship used to install these materials.
      - 4) Damage due to winds up to design speed indicated on drawings per code

- b. Exclusions, not covered:
  - 1) Damage due to winds in excess of those indicated on drawings.
  - 2) Damage due to hail
  - 3) Intentional Damage

## **PART 2 PRODUCTS**

### **2.01 MANUFACTURERS**

- A. Thermoplastic Polyolefin (TPO) Membrane Roofing Materials:
  - 1. Carlisle SynTec Systems; Sure-Weld TPO: [www.carlisle-syntec.com/#sle](http://www.carlisle-syntec.com/#sle).
  - 2. Elevate; UltraPly Platinum TPO: [www.holcimelevate.com/#sle](http://www.holcimelevate.com/#sle).
  - 3. GAF; EverGuard Extreme TPO 60 mil: [www.gaf.com/#sle](http://www.gaf.com/#sle).
  - 4. Johns ManvilleJM TPO - 60 mil: [www.jm.com/#sle](http://www.jm.com/#sle).
  - 5. Mule-Hide Products Co, Inc; Standard TPO: [www.mulehide.com/#sle](http://www.mulehide.com/#sle).
  - 6. Substitutions: See Section 01 6000 - Product Requirements.
- B. Insulation:
  - 1. Carlisle SynTec Systems; SecurShield Insulation: [www.carlisle-syntec.com/#sle](http://www.carlisle-syntec.com/#sle).
  - 2. GAF; Energy Guard Ultra: [www.gaf.com/#sle](http://www.gaf.com/#sle).
  - 3. ROCKWOOL; TopRock DD: [www.rockwool.com/#sle](http://www.rockwool.com/#sle).
  - 4. Versico Roofing Systems; SecurShield Insulation: [www.versico.com/#sle](http://www.versico.com/#sle).

### **2.02 ROOFING**

- A. Thermoplastic Membrane Roofing: One ply membrane, induction welded, over insulation.
- B. Roofing Assembly Requirements:
  - 1. Roof assembly shall have ICC Evaluation report with a listed assembly for the specified roof class and wind uplift over the roof assembly shown on the drawings.
  - 2. Solar Reflectance Index (SRI): Minimum of 81 based on three-year aged value; if three-year aged data is not available, minimum of 94 initial value.
    - a. Calculate SRI in accordance with ASTM E1980.
    - b. Field applied coating may not be used to achieve specified SRI.
  - 3. Roof Covering External Fire Resistance Classification: UL (FRD) Class A.
- C. Acceptable Insulation Types - Constant Thickness Application:
  - 1. Minimum 2 layers of polyisocyanurate or mineral wool board board.
- D. Acceptable Insulation Types - Tapered Application:
  - 1. Uniform thickness polyisocyanurate or mineral wool board covered with tapered polyisocyanurate or mineral wool board.
- E. Insulation Values: Provide the following minimum R values for rigid insulation. If R value information on drawings is in conflict with these minimum values provide the greater R value provided.
  - 1. Minimum R value: 35

## **2.03 MEMBRANE ROOFING AND ASSOCIATED MATERIALS**

- A. Membrane Roofing Materials:
  - 1. Heat Aging: 128 weeks when tested per ASTM D573
  - 2. Puncture Resistance: 380 minimum per FTMS 101C - Method 2065
  - 3. Membrane breaking strength: 335 lbf per ASTM D751
- B. Seaming Materials: As recommended by membrane manufacturer.
- C. Induction Welding Equipment:
  - 1. Minimum 5,000-watt, continuous generator per two portable bonding machines
  - 2. 100' (2.5 m) maximum length, #12 minimum gauge electrical cords
  - 3. Cooling clamps (stand-up magnets that put pressure on the newly-welded plate)
- D. Membrane Fasteners: As recommended and approved by membrane manufacturer.
  - 1. 3 inch (76 mm) diameter Galvalume steel plate with a special thermoplastic polyolefin (TPO) coating as recommended by membrane manufacturer and per listing.
  - 2. Polyamide tube insert compatible with plate system.
  - 3. Truss head corrosion resistant screws per manufacturer's listing.
- E. Flexible Flashing Material: Same material as membrane.

## **2.04 DECK SHEATHING**

- A. Deck Sheathing: Glass-mat faced gypsum panels complying with ASTM C1177/C1177M.
  - 1. Thickness: 5/8 inch, Type X, fire-resistant.
  - 2. Products:
    - a. Georgia-Pacific; DensDeck: [www.densdeck.com/#sle](http://www.densdeck.com/#sle).
    - b. USG Corporation; Securock Ultralight Glass-Mat Roof Board: [www.usg.com/#sle](http://www.usg.com/#sle).
    - c. Substitutions: See Section 01 6000 - Product Requirements.

## **2.05 COVER BOARDS**

- A. Cover Boards: Glass-mat faced gypsum panels complying with ASTM C1177/C1177M.
  - 1. Thickness: 1/4 inch, fire-resistant.
  - 2. Products:
    - a. Georgia-Pacific; DensDeck: [www.densdeck.com/#sle](http://www.densdeck.com/#sle).
    - b. Gold Bond Building Products, LLC provided by National Gypsum Company; DEXcell Glass Mat Roof Board: [www.goldbondbuilding.com/#sle](http://www.goldbondbuilding.com/#sle).

## **2.06 INSULATION**

- A. Polyisocyanurate (ISO) Board Insulation: Rigid cellular foam, complying with ASTM C1289.
  - 1. Classifications:
    - a. Type II: Faced with either cellulosic facers or glass fiber mat facers on both major surfaces of the core foam.

- 1) Class 2 - Faced with coated glass fiber mat facers on both major surfaces of the core foam.
  - 2) Compressive Strength: Classes 1-2-3, Grade 2, 20 psi (138 kPa), minimum.
  - 3) Thermal Resistance, R-value: At 1 1/2 inches thick; Class 2, 8.0 (1.41), minimum, at 75 degrees F.
  2. Board Size: 48 by 96 inches.
  3. Board Thickness: 1.5 inches.
  4. Tapered Board: Slope as indicated; minimum thickness \_\_\_\_ inch; fabricate of fewest layers possible.
  5. Board Edges: Square.
  6. Products:
    - a. GAF; EnergyGuard Ultra Polyiso Insulation: [www.gaf.com/#sle](http://www.gaf.com/#sle).
    - b. Mule-Hide Products Co, Inc; Poly ISO Flat: [www.mulehide.com/#sle](http://www.mulehide.com/#sle).
    - c. Versico Roofing Systems; SecurShield Insulation: [www.versico.com/#sle](http://www.versico.com/#sle).
- B. Mineral Wool Board Insulation: Rigid mineral wool fiber complying with ASTM C726; top surface coated with asphalt and Kraft paper.
1. Board Size: 48 by 48 inches.
  2. Board Thickness: 1 inch.
  3. Board Edges: Square.
  4. Compressive Resistance (at 25 percent deformation): Per ASTM C165 .
    - a. Top Layer: Minimum 37 psi
    - b. Entire Board: Minimum 15 psi
  5. Products:
    - a. Rockwool: Multifix; [rockwool.com](http://rockwool.com)

## **2.07 FLASHING MATERIAL AND ACCESSORIES**

- A. Flashing Material - Note: All Flashing touching thermoplastic roof system is to be provided as part of this specification by the roofing contractor.
1. Wall/Curb Flashing
    - a. Membrane
      - 1) A reinforced membrane adhered to approved substrate using adhesive. Consult manufacturer for adhesive options and additional information.
      - 2) Thickness: Thickness as specified above and as required for specified warranty.
  2. Perimeter Edge Flashing
    - a. Coated Flashing
      - 1) A coated, heat-weldable sheet metal capable of being formed into a variety of shapes and profiles. Flashing is a minimum 20-gauge, G90 galvanized metal sheet with a 25 mil (1 mm) unsupported membrane laminated on one side.
  3. Miscellaneous Flashing
    - a. Pipe Flashings
      - 1) A molded prefabricated vent pipe flashing made from 65 mil thick membrane.
      - 2) A molded split pipe flashing made from 45 mil thick membrane.
      - 3) A molded square tube wrap flashing made from 45 mil thick membrane.
    - b. Corners
      - 1) Prefabricated outside and inside flashing corners made of 70 mil thick membrane that is heat-welded to membrane or clad base flashings.

- c. Multi-Purpose Sealant
  - 1) Use sealant as recommended by membrane manufacturer
- d. Prefabricated Scupper
  - 1) Constructed from metal coated with unreinforced membrane minimum 55 mil thick.
  - 2) Size:
- B. Membrane Adhesive and other products: As recommended by membrane manufacturer including: Solvents, sealants, primers, and cleaners.
- C. Insulation Adhesive: As recommended by insulation manufacturer.
- D. Strip Reglet Devices: Galvanized steel, maximum possible lengths per location, with attachment flanges.
- E. Walkway Matting: open grid, self draining, non-porous roof walkway matting system
  - 1. Products
    - a. Plastex USA: Crossgrip PVC: [www.plastexmatting.com](http://www.plastexmatting.com)
    - b. Holcim Elevate: X-Tred Walkway Pad: [HolcimElevate.com](http://HolcimElevate.com)
    - c. FiberTite: Crossgrip: [fibertite.com](http://fibertite.com)
  - 2. loose-lay, slip resistant, self-draining
  - 3. Wind resistant to 60 mph, stable to 94 mph

## **PART 3 EXECUTION**

### **3.01 EXAMINATION**

- A. Verify that surfaces and site conditions are ready to receive work.
- B. Verify deck is supported and secure.
- C. Verify deck is clean and smooth, flat, free of depressions, waves, or projections, properly sloped and suitable for installation of roof system.
- D. Verify deck surfaces are dry and free of snow or ice.
- E. Verify that roof openings, curbs, and penetrations through roof are solidly set, and nailing strips are in place.

### **3.02 INSTALLATION, GENERAL**

- A. Perform work in accordance with manufacturer's instructions, NRCA (RM), and NRCA (WM) applicable requirements.
- B. Do not apply roofing membrane during cold or wet weather conditions.
- C. Do not apply roofing membrane when ambient temperature is outside the temperature range recommended by manufacturer.

- D. Do not apply roofing membrane to damp or frozen deck surface or when precipitation is expected or occurring.
- E. Do not expose materials vulnerable to water or sun damage in quantities greater than can be weatherproofed the same day.

### **3.03 INSTALLATION - INSULATION, UNDER MEMBRANE**

- A. Cover Boards: Mechanically fasten cover boards in accordance with roofing manufacturer's instructions and FM (AG) Factory Mutual requirements.
- B. Lay subsequent layers of insulation with joints staggered minimum 6 inches from joints of preceding layer.
- C. Place tapered insulation to the required slope pattern in accordance with manufacturer's instructions.
- D. Lay boards with edges in moderate contact without forcing. Cut insulation to fit neatly to perimeter blocking and around penetrations through roof.
- E. Do not install more insulation than can be covered with membrane in same day.

### **3.04 INSTALLATION - MEMBRANE**

- A. Roll out membrane, free from wrinkles or tears. Place sheet into place without stretching.
- B. Shingle joints on sloped substrate in direction of drainage.
- C. Overlap edges and ends and seal seams by contact adhesive, minimum 3 inches. Seal permanently waterproof. Apply uniform bead of sealant to joint edge.
- D. At intersections with vertical surfaces:
  - 1. Extend membrane over cant strips and up a minimum of 4 inches onto vertical surfaces.
  - 2. Fully adhere flexible flashing over membrane and up to nailing strips.
- E. Around roof penetrations, seal flanges and flashings with flexible flashing.
- F. Coordinate installation of roof drains and sumps and related flashings.

### **3.05 CLEANING**

- A. See Section 01 7000 - Execution and Closeout Requirements for additional requirements.
- B. In areas where finished surfaces are soiled by work of this section, consult manufacturer of surfaces for cleaning advice and comply with their documented instructions.
- C. Repair or replace defaced or damaged finishes caused by work of this section.

**3.06 PROTECTION**

- A. Protect installed roofing and flashings from construction operations.
- B. Where traffic must continue over finished roof membrane, protect surfaces using durable materials.

**END OF SECTION 07 5400**

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**Section 05 5133**

**Metal Ladders**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. Prefabricated ladders.

**1.02 RELATED REQUIREMENTS**

- A. Section 06 1000 - Rough Carpentry: Blocking and backing for ladder.

**1.03 REFERENCE STANDARDS**

- A. AAMA 611 - Voluntary Specification for Anodized Architectural Aluminum; 2020.
- B. ANSI A14.3 - American National Standard for Ladders -- Fixed -- Safety Requirements; 2008 (Reaffirmed 2018).
- C. ASTM B209 - Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate; 2014.
- D. ASTM B209/B209M - Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate; 2021a.
- E. ASTM B211/B211M - Standard Specification for Aluminum and Aluminum-Alloy Rolled or Cold Finished Bar, Rod, and Wire; 2019.
- F. OSHA 1910.23 (d) - Occupational Safety and Health Standards: 1910.23 Subpart D: Walking-Working Surfaces: Ladders.; 2024.

**1.04 SUBMITTALS**

- A. See Section 01 3300 - Submittals, for submittal procedures.
- B. Shop Drawings:
  - 1. Indicate profiles, sizes, connection attachments, reinforcing, anchorage, size and type of fasteners, and accessories. Include erection drawings, elevations, and details where applicable.
    - a. Provide templates for anchors and bolts specified for installation under other Sections
    - b. Provide reaction loads for each hanger and bracket.
- C. Design Data: Provide reaction loads for each hanger and bracket when applicable.

## **1.05 QUALITY ASSURANCE**

- A. Manufacturer Qualifications: A firm experienced in producing aluminum metal ladders similar to those indicated for this Project.
- B. Product design shall comply with OSHA 1910.23 (d) for fixed ladders.

## **1.06 WARRANTY**

- A. See Section 01 7800 - Closeout Submittals for additional warranty requirements.
- B. Correct defective Work within a four year period after Date of Substantial Completion.

## **PART 2 PRODUCTS**

### **2.01 MATERIALS - ALUMINUM**

- A. Extruded Aluminum: ASTM B211/B211M, 6063 alloy, T6 temper.
- B. Aluminum Sheet: Alloy 5005-H34 to comply with ASTM B209
- C. Sheet Aluminum: ASTM B209/B209M, 5052 alloy, H32 or H22 temper.
- D. Aluminum-Alloy Bars: ASTM B211/B211M, 6061 alloy, T6 temper.
- E. Bolts, Nuts, and Washers: Stainless steel.

### **2.02 PREFABRICATED LADDERS**

- A. Prefabricated Ladder: Welded metal unit complying with ANSI A14.3; factory fabricated to greatest degree practical and in the largest components possible.
  - 1. Components: Manufacturer's standard rails, rungs, treads, handrails, returns, platforms and safety devices complying with the requirements of the MATERIALS article of this section.
  - 2. Materials: Aluminum; ASTM B211/B211M 6063 alloy, T52 temper.
  - 3. Finish: Mill finish aluminum.
  - 4. Configurations
    - a. Fixed Access: Heavy duty tubular rail
      - 1) Bracket: Floor, Top
      - 2) Ladder safety post
      - 3) Model: 501
    - b. Parapet Ladder
      - 1) Brackets: Wall mount only, no penetrations of horizontal roof membrane
      - 2) Model: 503
  - 5. Manufacturers:
    - a. O'Keeffe's Inc: [www.okeeffes.com/#sle](http://www.okeeffes.com/#sle). (Basis of Design)
    - b. Precision Ladders, LLC: [www.precisionladders.com/#sle](http://www.precisionladders.com/#sle).

**2.03 FINISHES - ALUMINUM**

- A. Exterior Aluminum Surfaces: Class I natural anodized.
- B. Interior Aluminum Surfaces: Class I natural anodized.
- C. Class I Natural Anodized Finish: AAMA 611 AA-M12C22A41 Clear anodic coating not less than 0.7 mils thick.

**PART 3 EXECUTION**

**3.01 EXAMINATION**

- A. Verify that field conditions are acceptable and are ready to receive work.

**3.02 INSTALLATION**

- A. Install items plumb and level, accurately fitted, free from distortion or defects.
- B. Provide for erection loads, and for sufficient temporary bracing to maintain true alignment until completion of erection and installation of permanent attachments.
- C. Obtain approval prior to site cutting or making adjustments not scheduled.

**3.03 TOLERANCES**

- A. Maximum Variation From Plumb: 1/4 inch per story, non-cumulative.
- B. Maximum Offset From True Alignment: 1/4 inch.
- C. Maximum Out-of-Position: 1/4 inch.

**END OF SECTION 05 5133**

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**Section 07 7200  
Roof Accessories**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. Roof hatches.

**1.02 RELATED REQUIREMENTS**

- A. Section 05 5133 Metal Fabrications: Roof Access Ladders
- B. Section 07 2100 Board and Batt Insulation
- C. Section 07 5400 Thermoplastic Membrane
- D. Section 07 6200 - Sheet Metal Flashing and Trim
- E. Section 07 7100 - Roof Specialties: Other manufactured roof specialty items.

**1.03 REFERENCE STANDARDS**

- A. ASTM A653/A653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process; 2023.

**1.04 SUBMITTALS**

- A. See Section 01 3300 - Submittals for submittal procedures.
- B. Product Data: Manufacturer's data sheets on each product to be used.
  - 1. Preparation instructions and recommendations.
  - 2. Storage and handling requirements and recommendations.
  - 3. Installation methods.
  - 4. Maintenance requirements.
- C. Warranty Documentation:
  - 1. Submit manufacturer warranty.
  - 2. Ensure that forms have been completed in Owner's name and registered with manufacturer.

**1.05 DELIVERY, STORAGE, AND HANDLING**

- A. Store products in manufacturer's unopened packaging until ready for installation.
- B. Store products under cover and elevated above grade.

## **1.06 WARRANTY**

- A. See Section 01 7800 - Closeout Submittals for additional warranty requirements.
- B. Correct defective work within a five year period after Date of Substantial Completion.

## **PART 2 PRODUCTS**

### **2.01 ROOF HATCHES AND VENTS**

- A. Roof Hatch Manufacturers:
  - 1. Bilco Company; Type TB (various types and special size): [www.bilco.com/#sle](http://www.bilco.com/#sle).
  - 2. Milcor, Inc. [www.milcorinc.com](http://www.milcorinc.com)
  - 3. O'Keefe's
- B. Roof Hatches and Smoke Vents: Factory-assembled aluminum frame and cover, complete with operating and release hardware.
  - 1. Style: Provide flat metal covers unless otherwise indicated.
  - 2. Mounting: Provide frames and curbs suitable for mounting conditions as indicated on drawings.
  - 3. Thermally Broken Hatches: Provide insulation within hatch frame and cover.
  - 4. For Ladder Access: Single leaf; 30x36 inches.
- C. Frames and Curbs: One-piece curb and frame with integral cap flashing to receive roof flashings; extended bottom flange to suit mounting.
  - 1. Material: Mill finished aluminum, 11 gauge, 0.0907 inch thick.
  - 2. Insulation: Manufacturer's standard; 1 inch rigid glass fiber, located on inside hollow curb.
- D. Metal Covers: Flush, insulated, hollow metal construction.
  - 1. Capable of supporting 40 psf live load.
  - 2. Material: Mill finished aluminum; outer cover 11 gauge, 0.0907 inch thick, liner 0.04 inch thick.
  - 3. Insulation: Manufacturer's standard 3 inch rigid polyisocyanurate.
  - 4. Gasket: Neoprene, continuous around cover perimeter.
- E. Hardware: Steel, zinc coated and chromate sealed, unless otherwise indicated or required by manufacturer.
  - 1. Lifting Mechanisms: Compression or torsion spring operator with shock absorbers that automatically opens upon release of latch; capable of lifting covers despite 10 psf load.
  - 2. Hinges: Heavy duty pintle type.
  - 3. Hold open arm with vinyl-coated handle for manual release.
  - 4. Latch: Upon closing, engage latch automatically and reset manual release.
  - 5. Manual Release: Pull handle on interior.
  - 6. Locking: Padlock hasp on interior.

### **PART 3 EXECUTION**

#### **3.01 EXAMINATION**

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

#### **3.02 PREPARATION**

- A. Clean surfaces thoroughly prior to installation.
- B. Prepare surfaces using methods recommended by manufacturer for achieving acceptable results for applicable substrate under project conditions.

#### **3.03 INSTALLATION**

- A. Install in accordance with manufacturer's instructions, in manner that maintains roofing system weather-tight integrity.

#### **3.04 PROTECTION**

- A. Protect installed products until completion of project.
- B. Touch-up, repair or replace damaged products before Date of Substantial Completion.

**END OF SECTION 07 7200**

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**Section 09 5100  
Acoustical Ceilings**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. Suspended metal grid ceiling system.
- B. Acoustical units.
- C. Decorative suspended ceiling canopies, cable, and hangers.

**1.02 RELATED REQUIREMENTS**

- A. Section 07 2100 - Board and Batt Insulation: Acoustical insulation.
- B. Section 28 3100 - Fire Sprinkler Monitoring and Alarm: Fire alarm components in ceiling system.

**1.03 REFERENCE STANDARDS**

- A. ASTM C635/C635M - Standard Specification for Manufacture, Performance, and Testing of Metal Suspension Systems for Acoustical Tile and Lay-in Panel Ceilings; 2022.
- B. ASTM C636/C636M - Standard Practice for Installation of Metal Ceiling Suspension Systems for Acoustical Tile and Lay-In Panels; 2019.
- C. ASTM E580/E580M - Standard Practice for Installation of Ceiling Suspension Systems for Acoustical Tile and Lay-in Panels in Areas Subject to Earthquake Ground Motions; 2022.
- D. ASTM E1264 - Standard Classification for Acoustical Ceiling Products; 2023.
- E. NFPA 286 - Standard Methods of Fire Tests for Evaluating Contribution of Wall and Ceiling Interior Finish to Room Fire Growth; 2024.

**1.04 ADMINISTRATIVE REQUIREMENTS**

- A. Sequence work to ensure acoustical ceilings are not installed until building is enclosed, sufficient heat is provided, dust generating activities have terminated, and overhead work is completed, tested, and approved.
- B. Do not install acoustical units until after interior wet work is dry.

### **1.05 SUBMITTALS**

- A. See Section 01 3300 - Submittals for submittal procedures.
- B. Shop Drawings: Indicate layout and details for decorative suspended canopies.
- C. Product Data: Provide data on suspension system components and acoustical units.
- D. Samples: Submit two samples 12 by 12 inch in size illustrating material and finish of acoustical units.
- E. Samples: Submit two samples each, 12 inches long, of suspension system main runner, cross runner, and perimeter molding.
- F. Maintenance Materials: Furnish the following for Owner's use in maintenance of project.
  - 1. See Section 01 6000 - Product Requirements, for additional provisions.
  - 2. Extra Acoustical Units: 120 sq ft of each type and size.

### **1.06 QUALITY ASSURANCE**

- A. Suspension System Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years documented experience.
- B. Acoustical Unit Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years documented experience.

### **1.07 FIELD CONDITIONS**

- A. Maintain uniform temperature of minimum 60 degrees F, and maximum humidity of 40 percent prior to, during, and after acoustical unit installation.

## **PART 2 PRODUCTS**

### **2.01 MANUFACTURERS**

- A. Acoustic Tiles/Panels:
  - 1. Armstrong World Industries, Inc; \_\_\_\_: [www.armstrongceilings.com/#sle](http://www.armstrongceilings.com/#sle).
  - 2. Certainteed Architectural; \_\_\_\_: [www.certainteed.com/ceilings-and-walls/#sle](http://www.certainteed.com/ceilings-and-walls/#sle).
  - 3. USG Corporation; \_\_\_\_: [www.usg.com/ceilings/#sle](http://www.usg.com/ceilings/#sle).
  - 4. Substitutions: See Section 01 6000 - Product Requirements.
- B. Suspension Systems:
  - 1. Same as for acoustical units.

### **2.02 ACOUSTICAL UNITS**

- A. Manufacturers:

1. Armstrong World Industries, Inc: [www.armstrong.com](http://www.armstrong.com).
  2. Substitutions: See Section 01 6000 - Product Requirements.
- B. Acoustical Units - General: ASTM E1264, Class A.
- C. Acoustical Panels Type A: Painted mineral fiber, with the following characteristics:
1. Classification: ASTM E1264 Type III.
  2. Size: 24 by 24 inches.
  3. Thickness: 3/4 inch.
  4. Light Reflectance: 87 percent, determined in accordance with ASTM E1264.
  5. NRC Range: 0.70 to 0.80, determined in accordance with ASTM E1264.
  6. Panel Edge: Square.
  7. Color: White.
  8. Suspension System: Exposed grid.
  9. Products:
    - a. Armstrong World Industries, Inc; Optima Concealed: [www.armstrongceilings.com/#sle](http://www.armstrongceilings.com/#sle).
    - b. Armstrong World Industries, Inc; Lyra Concealed: [www.armstrongceilings.com/#sle](http://www.armstrongceilings.com/#sle).

### **2.03 SUSPENSION SYSTEM(S)**

- A. Metal Suspension Systems - General: Complying with ASTM C635/C635M; die cut and interlocking components, with perimeter moldings, hold down clips, stabilizer bars, clips, and splices as required.
- B. Exposed Suspension System Type A: Hot-dipped galvanized steel grid with steel cap.
1. Structural Classification: Intermediate-duty, when tested in accordance with ASTM C635/C635M.
  2. Profile: Tee; 15/16 inch face width.
  3. Color: White.

### **2.04 ACCESSORIES**

- A. Support Channels and Hangers: Galvanized steel; size and type to suit application, seismic requirements, and ceiling system flatness requirement specified.
- B. Hanger Wire: 12 gauge, 0.08 inch galvanized steel wire.
- C. Perimeter Moldings: Same metal and finish as grid.
- D. Touch-up Paint: Type and color to match acoustical and grid units.

## **PART 3 EXECUTION**

### **3.01 EXAMINATION**

- A. Verify existing conditions before starting work.

- B. Verify that layout of hangers will not interfere with other work.

### **3.02 INSTALLATION - SUSPENSION SYSTEM**

- A. Install suspension system in accordance with ASTM C636/C636M, ASTM E580/E580M, ASTM C636/C636M, ASTM E580/E580M, ASTM C636/C636M, and ASTM E580/E580M and as supplemented in this section.
- B. Rigidly secure system, including integral mechanical and electrical components, for maximum deflection of 1:360.
- C. Locate system on room axis according to reflected plan.
- D. Perimeter Molding: Install at intersection of ceiling and vertical surfaces and at junctions with other interruptions.
  - 1. Use longest practical lengths.
- E. Suspension System, Non-Seismic: Hang suspension system independent of walls, columns, ducts, pipes and conduit. Where carrying members are spliced, avoid visible displacement of face plane of adjacent members.
- F. Where ducts or other equipment prevent the regular spacing of hangers, reinforce the nearest affected hangers and related carrying channels to span the extra distance.
- G. Do not support components on main runners or cross runners if weight causes total dead load to exceed deflection capability.
- H. Support fixture loads using supplementary hangers located within 6 inches of each corner, or support components independently.
- I. Do not eccentrically load system or induce rotation of runners.

### **3.03 INSTALLATION - ACOUSTICAL UNITS**

- A. Install acoustical units in accordance with manufacturer's instructions.
- B. Fit acoustical units in place, free from damaged edges or other defects detrimental to appearance and function.
- C. Fit border trim neatly against abutting surfaces.
- D. Install acoustical units level, in uniform plane, and free from twist, warp, and dents.
- E. Cutting Acoustical Units:
  - 1. Make field cut edges of same profile as factory edges.

**3.04 TOLERANCES**

- A. Maximum Variation from Flat and Level Surface: 1/8 inch in 10 feet.
- B. Maximum Variation from Plumb of Grid Members Caused by Eccentric Loads: 2 degrees.

**END OF SECTION 09 5100**

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**Section 09 5153  
Direct-Applied Acoustical Panels**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. Direct applied wood fiber plank panel system.

**1.02 RELATED REQUIREMENTS**

- A. 06 1000 - Rough Carpentry: Substrate for direct applied wood fiber plank ceiling.
- B. 21 1300 - Fire Sprinkler System
- C. 26 5100 - Interior Lighting

**1.03 REFERENCE STANDARDS**

- A. ASTM C423 - Standard Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method; 2023.
- B. ASTM E1477 - Standard Test Method for Luminous Reflectance Factor of Acoustical Materials by Use of Integrating-Sphere Reflectometers; 1998a (Reapproved 2022).
- C. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2023d.
- D. ASTM E1264 - Standard Classification for Acoustical Ceiling Products; 2023.

**1.04 ADMINISTRATIVE REQUIREMENTS**

- A. Sequence work to ensure acoustic panels are not installed until building is enclosed, sufficient heat is provided, dust generating activities have terminated, and overhead work is completed, tested, and approved.
- B. Install acoustic units after interior wet work is dry.

**1.05 SUBMITTALS**

- A. See Section 01 3300 - Submittals, for submittal procedures.
- B. Product Data: Provide data on acoustic units.
- C. Shop Drawings: Indicate tile layout and related junctions with other work or ceiling finishes, interrelation of mechanical and electrical items related to system.

- D. Samples: Submit two samples, 6 by 6 inch in size, illustrating material and finish of acoustic units.

### **1.06 QUALITY ASSURANCE**

- A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section, with not less than three years of documented experience.

### **1.07 WARRANTY**

- A. Direct Applied Wood Fiber Plank System: Provide manufacturer's standard warranty agreeing to repair or replace panels that fail due to sagging or warping for a period of 30 years.

## **PART 2 PRODUCTS**

### **2.01 MANUFACTURERS**

- A. Direct Applied Wood Fiber Acoustical Ceilings:
  - 1. Armstrong World Industries, Inc; Tectum: [www.armstrong.com](http://www.armstrong.com). (Basis of Design)
  - 2. Acoustical Surfaces, Inc.; Envirocoustic Wood Wool: [www.acousticalsurfaces.com](http://www.acousticalsurfaces.com)
  - 3. Or equal.

### **2.02 MATERIALS**

- A. Direct Applied Wood Fiber Acoustical Ceilings
  - 1. Surface Texture: Coarse
  - 2. Composition: Aspen wood fibers bonded with inorganic hydraulic cement
  - 3. Color: As specified in the drawings
  - 4. Size: Standard 23 ¾ x 96 inches
  - 5. Thickness: 1 inch
  - 6. Edge Profile: Long edge beveled, short edge square
  - 7. Line Design: Horizontal
  - 8. Noise Reduction Coefficient (NRC): 0.85 per ASTM C423 ; Mounting C-40
  - 9. Flame Spread: Class A per ASTM E1264
  - 10. Light Reflectance: 0.75 per ASTM E1477 for white panel
- B. Direct Applied Wood Fiber Acoustical Wall Panel
  - 1. Surface Texture: Coarse
  - 2. Composition: Aspen wood fibers bonded with inorganic hydraulic cement
  - 3. Color: As specified in the drawings.
  - 4. Size: Standard 23 ¾ x 96 inches
  - 5. Thickness: 1 inch
  - 6. Edge Profile: Long edge beveled, short edge square
  - 7. Line Design: Horizontal
  - 8. Noise Reduction Coefficient (NRC): 0.85 per ASTM C423 ; Mounting C-40
  - 9. Flame Spread: Class A per ASTM E1264

10. Light Reflectance: 0.75 per ASTM E1477 for white panel

C. Adhesive: Waterproof, gun grade; type recommended by tile manufacturer.

### **PART 3 EXECUTION**

#### **3.01 EXAMINATION**

A. Verify existing conditions and substrate flatness before starting work.

B. Verify that substrate conditions are ready to receive the work of this section.

#### **3.02 INSTALLATION**

A. Install system in accordance with manufacturer's instructions.

B. Kerf tile edges at intersection of ceiling and vertical surfaces.

C. Center tile on room axis leaving equal border units.

D. Fit acoustic units in place, free from damaged edges or other defects detrimental to appearance and function.

E. Install acoustic units level in uniform plane.

**END OF SECTION 09 5153**

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**Section 09 5446  
Acoustic Panel Blades**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. Linear blades.

**1.02 RELATED REQUIREMENTS**

**1.03 REFERENCE STANDARDS**

- A. ASTM C423 - Standard Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method; 2023.
- B. ASTM C635/C635M - Standard Specification for Manufacture, Performance, and Testing of Metal Suspension Systems for Acoustical Tile and Lay-in Panel Ceilings; 2022.
- C. ASTM C636/C636M - Standard Practice for Installation of Metal Ceiling Suspension Systems for Acoustical Tile and Lay-In Panels; 2019.
- D. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2023d.
- E. ASTM E580/E580M - Standard Practice for Installation of Ceiling Suspension Systems for Acoustical Tile and Lay-in Panels in Areas Subject to Earthquake Ground Motions; 2022.
- F. CAL (CDPH SM) - Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers Version 1.2; 2017.

**1.04 DESIGN REQUIREMENTS**

- A. Design components to ensure light fixtures will not induce eccentric loads. Where components may induce rotation of ceiling system components, provide stabilizing reinforcement.
- B. Provide seismic restraint as required by building code.

**1.05 ADMINISTRATIVE REQUIREMENTS**

- A. Coordination: Coordinate work of this section with installation of mechanical and electrical components and with other construction activities affected by work of this section.

**1.06 SUBMITTALS**

- A. See Section 01 3300 - Submittals for submittal procedures.

- B. Product Data: Furnish for materials.
- C. Shop Drawings: Indicate reflected ceiling plan, location of mechanical and electrical components, details of junction with dissimilar materials, and points of suspension.
- D. Samples: Submit two samples 6 by 6 inch in size illustrating color and finish of exposed to view components.
- E. Maintenance Materials: Furnish the following for Owner's use in maintenance of project.
  - 1. See Section 01 6000 - Product Requirements for additional provisions.
  - 2. Extra Blades: Two, of each type, color, and length in the project.

### **1.07 QUALITY ASSURANCE**

- A. Designer Qualifications for Seismic Design: Perform under direct supervision of a Professional Structural Engineer experienced in design of this work and licensed at California.
- B. Manufacturer Qualifications: Company specializing in manufacturing the Products specified in this section with minimum three years documented experience.

### **1.08 WARRANTY**

- A. See Section 01 7800 - Closeout Submittals for additional warranty requirements.
- B. Manufacturer Warranty: Provide 5-year manufacturer warranty for polyester felt components. Complete forms in Owner's name and register with manufacturer.

## **PART 2 PRODUCTS**

### **2.01 Polyester Felt CEILING ASSEMBLIES**

- A. Ceiling Assembly Type Felt (Recycled PET):
  - 1. Ceiling System: Include blades; suspension members, trim, and accessories as required to provide a complete installation.
    - a. Layout: As indicated on drawings.
  - 2. Blades:
    - a. Manufacturer:
      - 1) CSI Creative; Acoustic Baffles; [www.https://www.csicreative.com](https://www.csicreative.com) (Basis of design).
      - 2) Armstrong; Feltworks Blades; <https://www.armstrongceilings.com>
    - b. Shapes: As indicated on drawings.
    - c. Nominal Blade Thickness: 3/8" thick.
    - d. Colors: As indicated on drawings.

### **2.02 CEILING Systems**

- A. Performance Requirements:

1. Design to support imposed loads of indicated items without eccentric loading of supports.
2. Design for maximum deflection of 1/360 of span.
3. Design to resist seismic load by using practices specified in ASTM E580.
4. Surface Burning Characteristics: Flame spread index of 25 or less, smoke developed index of 450 or less, when tested in accordance with ASTM E84.

### **2.03 COMPONENTS**

- A. Polyester Felt Elements: Manufacturer's standard.
  1. Blades: Individual single-thickness linear elements mounted on factory-installed metal support framework modules.
- B. Polyester Felt Material: Manufacturer's standard 100 percent integrally colored polyester with high recycled material content.
- C. Suspension Systems:
  1. Direct Suspension Hanger Wire System: Wire hangers selected and spaced to comply with heavy-duty classification requirements of ASTM C635/C635M.
- D. Moldings and Trim: Manufacturer's standard for specified assemblies.
  1. Perimeter (Wall) Moldings: Same metal and finish as grid.
    - a. Size: As required for installation conditions.
    - b. Acoustical Sealant For Perimeter Moldings: Non-hardening, non-skinning, for use in conjunction with suspended ceiling system.

### **2.04 Accessories**

- A. Edge Molding, Expansion Joints, and Splices: Same material, thickness, and finish as linear panels.
- B. End Caps: Manufacturer's standard; same color and finish as baffles.
- C. Accessories: Stabilizer bars as required for suspended grid system; sight-exposed surfaces same color and finish as sight-exposed surfaces of linear panels.
- D. Suspension Wire: Size and type as required for application, seismic requirements, and ceiling system flatness requirement specified.

## **PART 3 EXECUTION**

### **3.01 EXAMINATION**

- A. Verify existing conditions before starting work.
- B. Verify that layout of hangers will not interfere with other work.
- C. Verify that field measurements are as indicated on shop drawings.

- D. Start of installation constitutes acceptance of project conditions.

### **3.02 Preparation**

- A. Coordinate the location of hangers with other work.
- B. Provide hanger clips during steel deck erection. Provide additional hangers and inserts as required.
- C. Install after major above-ceiling work is complete.

### **3.03 INSTALLATION - Suspension System**

- A. Install suspension system in accordance with ASTM C636/C636M and manufacturer's instructions and as supplemented by this section.
- B. Install hangers and inserts coordinated with overhead work. Provide additional hangers and supports as required.
- C. Rigidly secure system, including integral mechanical and electrical components, for maximum deflection of 1:360.
- D. Suspension System, Non-Seismic: Hang suspension system independent of walls, columns, ducts, pipes and conduit. Where carrying members are spliced, avoid visible displacement of face plane of adjacent members.
- E. Seismic Suspension System, Seismic Design Category C: Hang suspension system independent of walls, columns, ducts, pipes and conduit. Maintain a 3/8 inch clearance between grid ends and wall.
- F. Seismic Suspension System, Seismic Design Categories D, E, F: Hang suspension system with grid ends attached to the perimeter molding on two adjacent walls; on opposite walls, maintain a 3/4 inch clearance between grid ends and wall.
- G. Where ducts, facility services, or equipment prevent the regular spacing of hangers, reinforce the nearest affected hangers and related carrying channels to span the extra distance.
- H. Do not support components on main runners or cross runners if weight causes total dead load to exceed deflection capability.
- I. Support fixture loads using supplementary hangers located within 6 inches of each corner, or support components independently.
- J. Do not eccentrically load system or induce rotation of runners.
- K. Edge Moldings: Install at intersection of ceiling and vertical surfaces and penetrations, using components of maximum length, set level. Provide edge moldings at junction with other ceiling finishes. Miter corners. Provide preformed edge closures to match bullnosed cornered

partitions.

1. Use longest practical lengths.

**3.04 INSTALLATION - LINEAR COMPONENTS:**

- A. Install linear polyester felt components and system supports and accessories in accordance with manufacturer's instructions.
- B. Butt interior end joints tight.
- C. Install edge moldings at junctions with other finishes and at vertical surfaces; use maximum piece lengths.
- D. Exercise care when site cutting sight-exposed finished components to ensure surface finish is not defaced.

**3.05 INSTALLATION - Directly-Suspended Panels:**

- A. Install panels and other system supports and accessories in accordance with manufacturer's instructions.

**END OF SECTION 09 5446**

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**Section 10 4400  
Fire Protection Specialties**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. Fire extinguishers.
- B. Fire extinguisher cabinets.

**1.02 RELATED REQUIREMENTS**

- A. Section 06 1000 - Rough Carpentry: Wood blocking product and execution requirements.

**1.03 REFERENCE STANDARDS**

- A. FM (AG) - FM Approval Guide; Current Edition.
- B. NFPA 10 - Standard for Portable Fire Extinguishers; 2022.
- C. UL (DIR) - Online Certifications Directory; Current Edition.

**1.04 SUBMITTALS**

- A. See Section 01 3300 - Submittals, for submittal procedures.
- B. Manufacturer's Installation Instructions: Indicate special criteria and wall opening coordination requirements.

**PART 2 PRODUCTS**

**2.01 MANUFACTURERS**

- A. Fire Extinguishers:
  - 1. Ansul, a Tyco Business; Sentry: [www.ansul.com/#sle](http://www.ansul.com/#sle).
  - 2. Kidde, a unit of United Technologies Corp: [www.kidde.com/#sle](http://www.kidde.com/#sle).
  - 3. Nystrom, Inc: [www.nystrom.com/sle](http://www.nystrom.com/sle)
  - 4. Amerex Copr: [www.amerex-fire.com](http://www.amerex-fire.com)
- B. Fire Extinguisher Cabinets and Accessories:
  - 1. Ansul, a Tyco Business; Sentry: [www.ansul.com/#sle](http://www.ansul.com/#sle).
  - 2. Kidde, a unit of United Technologies Corp; \_\_\_\_\_: [www.kidde.com/#sle](http://www.kidde.com/#sle).
  - 3. Larsen's Manufacturing Co: [www.larsensmfg.com/#sle](http://www.larsensmfg.com/#sle).
  - 4. Nystrom, Inc: [www.nystrom.com/sle](http://www.nystrom.com/sle).

5. Substitutions: See Section 01 6000 - Product Requirements.

## **2.02 FIRE EXTINGUISHERS**

- A. Fire Extinguishers - General: Comply with product requirements of NFPA 10 and applicable codes, whichever is more stringent.
1. Provide extinguishers labeled by UL (DIR) or FM (AG) for purpose specified and as indicated.
- B. Multipurpose Dry Chemical Type Fire Extinguishers: Carbon steel tank, with pressure gauge.
1. Stored Pressure Operated: Deep Drawn.
  2. Class: A:B:C type.
  3. Finish: Baked polyester powder coat red color.
  4. Model: B500/B500T as manufactured by Amerex
  5. Temperature range: Minus 40 degrees F to 120 degrees F.

## **2.03 FIRE EXTINGUISHER CABINETS**

- A. Cabinet Configuration: Semi-recessed type.
1. Size to accommodate accessories.
  2. Trim: Flat rolled edge, with \_\_\_\_ inch wide face.
- B. Door Glazing: Float glass, clear, 1/8 inch thick, and set in resilient channel glazing gasket.
- C. Cabinet Mounting Hardware: Appropriate to cabinet, with pre-drilled holes for placement of anchors.
- D. Finish of Cabinet Exterior Trim and Door: Satin .
- E. Lettering: Vertical, Red

## **PART 3 EXECUTION**

### **3.01 EXAMINATION**

- A. Verify rough openings for cabinet are correctly sized and located.

### **3.02 INSTALLATION**

- A. Install in accordance with manufacturer's instructions.
- B. Install cabinets plumb and level in wall openings, with midpoint of door handle at 39 inches above finished floor.
- C. Place extinguishers in cabinets.

**END OF SECTION 10 4400**

10 4400 Fire Protection Specialties

Page 2 of 2

**Section 11 6813  
Playground Equipment**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. Playground layout (staking).
- B. Concrete footings for playground equipment.
- C. Playground equipment.
- D. Challenge Course equipment.
- E. Climbing Boulder
- F. Fitness Equipment
- G. Location of each item of playground equipment is indicated on drawings.

**1.02 RELATED REQUIREMENTS**

- A. Section 03 3000 - Cast-in-Place Concrete: Footings for playground equipment.
- B. Section 31 2200 - Grading: Shaping subgrade to specified grade levels.
- C. Section 32 1313 - Concrete Paving: Footings for playground equipment.
- D. Section 32 1816.13 - Playground Protective Surfacing: Protective surfacing in playground area.

**1.03 DEFINITIONS**

- A. Play Event: A piece of playground equipment that supports one or more play activities.
- B. Use Zone: Area under and around a play event within which the ground surfacing must meet fall impact attenuation requirements of ASTM F1292 when tested at the fall height specified for the play event.
- C. Fall Height: Vertical distance between the finished elevation of the designated play surface and the finished elevation of the protective surfacing beneath it, as defined in ASTM F1487.
- D. Protective Surfacing: Resilient ground surfacing, specified in Section 32 1816.13. The characteristics of the protective surfacing are based on the fall height of the playground equipment. Changes in either the surfacing or the fall height, particularly reducing the resilience of the protective surfacing or increasing the fall height, will reduce safety-related

performance.

- E. Subgrade: Surface of the ground on which the protective surfacing is installed; the subbase for the protective surfacing is installed over the subgrade.

#### **1.04 REFERENCE STANDARDS**

- A. ASTM A123/A123M - Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products; 2017.
- B. ASTM A135/A135M - Standard Specification for Electric-Resistance-Welded Steel Pipe; 2021.
- C. ASTM A500/A500M - Standard Specification for Cold-Formed Welded and Seamless Carbon Steel Structural Tubing in Rounds and Shapes; 2023.
- D. ASTM A513/A513M - Standard Specification for Electric-Resistance-Welded Carbon and Alloy Steel Mechanical Tubing; 2020a.
- E. ASTM B221 - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes; 2021.
- F. ASTM B221M - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes (Metric); 2021.
- G. ASTM D648 - Standard Test Method for Deflection Temperature of Plastics Under Flexural Load in the Edgewise Position; 2018.
- H. ASTM D6662 - Standard Specification for Polyolefin-Based Plastic Lumber Decking Boards; 2022.
- I. ASTM F1292 - Standard Specification for Impact Attenuation of Surfacing Materials Within the Use Zone of Playground Equipment; 2022.
- J. ASTM F1487 - Standard Consumer Safety Performance Specification for Playground Equipment for Public Use; 2021.
- K. CPSC Pub. No. 325 - Public Playground Safety Handbook; 2015.

#### **1.05 ADMINISTRATIVE REQUIREMENTS**

- A. Preinstallation Meetings: Convene a meeting one week before starting earthwork for playground to discuss coordination between various installers.
  - 1. Require attendance by personnel responsible for grading and installers of playground equipment, protective surfacing, footings, and adjacent work.
  - 2. Include representatives of Contractor.
  - 3. Notify Architect at least 2 weeks prior to meeting.

## **1.06 SUBMITTALS**

- A. See Section 01 3300 - Submittals, for submittal procedures.
- B. Proposals for Substitutions: Substitutions that will increase fall height, platform height, or maximum equipment height will not be considered; submit shop drawings with proposed modifications clearly identified and sufficient information to determine compliance with specified criteria.
- C. Product Data: For manufactured equipment, provide manufacturer's product data showing materials of construction, compliance with specified standards, installation procedures, safety limitations, and the number of users permitted.
- D. Shop Drawings: Detailed scale drawings showing play event layout, Use Zone perimeters, and fall height for each play event.
  - 1. Show locations and dimensions of footings and anchorage points.
  - 2. Show locations of related construction such as walkways and roadways, fences, site furnishings, and plantings.
- E. Samples: For each item that a color must be selected, provide color chart showing full range of colors and finishes.
- F. Maintenance Data: Provide manufacturer's recommended maintenance instructions and list of replaceable parts for each equipment item, with address and phone number of source of supply.
- G. Warranty: Submit manufacturer warranty and ensure that forms have been completed in Owner's name and registered with manufacturer.

## **1.07 QUALITY ASSURANCE**

- A. Maintain one copy of the latest edition of ASTM F1487 and CPSC Pub. No. 325 at project site.
- B. Manufacturer Qualifications: Company regularly engaged in manufacturing materials and products specified in this section, with not less than 5 years of experience.
  - 1. Provide documentation showing that playground equipment similar to that specified has been installed in at least ten sites and in successful service for at least five years; provide addresses.
- C. Installer Qualifications: Company certified by manufacturer for training and experience installing play events and equipment.

## **1.08 DELIVERY, STORAGE, AND HANDLING**

- A. Deliver, handle, and store equipment to project site in accordance with manufacturer's recommendations.
- B. Store materials in a dry, covered area, elevated above grade.

## **PART 2 PRODUCTS**

### **2.01 PLAYGROUND EQUIPMENT - GENERAL**

- A. Design Assumptions: Because the safety of the playground depends on strict compliance with design criteria, this information is provided for Contractor's information.
  - 1. Playground has been designed for children ages 2 through 12.
  - 2. If deviations from specified dimensions, especially fall heights, is required, obtain approval prior to proceeding; follow approval request procedure as specified for substitutions.
  
- B. Mount equipment on concrete footings, unless otherwise indicated.
  - 1. Playground protective surfacing constitutes a resilient layer installed over a subbase (non-resilient) that is installed over subgrade; top of footings and anchorage devices is to be covered by full depth of resilient portion of protective surfacing.
  - 2. Protective Surfacing Depth: As indicated on drawings.
  - 3. Provide supports as required to mount equipment at proper height above finish and subgrades to allow installation of sufficient depth of protective surfacing; portion of support below top of surfacing must comply with specified requirements for equipment.
  - 4. Paint portion of support that is intended to be installed below top surface of protective surfacing a different color, or mark in other permanent way, so that installers and maintainers of protective surfacing can easily determine whether sufficient depth has been installed.
  
- C. Provide permanent label for each equipment item stating age group that equipment was designed for, manufacturer identification, and warning labels in accordance with ASTM F1487.

### **2.02 MANUFACTURED PLAYGROUND EQUIPMENT**

- A. Manufacturer: Gametime. - [www.gametime.com](http://www.gametime.com)
  - 1. Contact/Sales Representative: Jenn Peterson (800) 922-0070 x 1071, [jppeterson@mrcrec.com](mailto:jppeterson@mrcrec.com)
    - a. Payground Quote Reference No. 111480-01-06
      - 1) Play Components (model number in parentheses where applicable); quantities per Drawings:
        - (a) Gametime - PowerScape Custom Designed 2-5 Unit
        - (b) Saucer Swing
    - b. Challenge Course Quote Reference No. 111480-03-04
      - 1) Play Components
        - (a) 13608 Agility Trainer (QTY: 4)
        - (b) 13654 Ninja Steps Youth
        - (c) 13657 Floating Boards (Youth)
        - (d) 13652 U-Turn Ramp
        - (e) 13617 Traverse Wall (Youth)
        - (f) 13655 Vault Wall (QTY: 3)
        - (g) 13659 Sway Steps (Youth)

- c. Colors: TBD. Provide full range of colors in submittal.
- B. Manufacturer: ID Sculpture. - www.idsulpture.com.com
  - 1. Contact: jason@idsulpture.com
    - a. Pagosa Climbing Boulder
      - 1) Components Part #PB006
- C. Manufacturer: Greenfields Outdoor Fitness. - www.greenfieldsfitness.com
  - 1. Contact: info@greenfieldsfitness.com
    - a. Fitness Equipment Quote Reference No. S25846
      - 1) Components (model number in parenthesis where applicable); quantities per Drawings:
        - (a) Professional Series Model (UBx255) Arm Curl (Adjustable Resistance)
        - (b) Professional Series Model (UBx293) Bench Press (Adjustable Resistance)
        - (c) Professional Series Model (UBx290) Rower (Adjustable Resistance)
        - (d) Professional Series Model (UBx223) Sit-Up Bench (Adjustable Resistance)
        - (e) Professional Series Model (UBx292) Stepper (Adjustable Resistance)
      - 2) Colors: TBD. Provide full range of colors in submittal.
- D. Comply with ASTM F1487 and CPSC Pub. No. 325; provide equipment complying with specified requirements for relevant age group(s).
  - 1. Provide components having factory-drilled holes; do not use components with extra holes that will not be filled by hardware or covered by other components.

### **2.03 MATERIALS**

- A. Steel Pipe and Tube: Comply with ASTM A135/A135M, ASTM A500/A500M, or ASTM A513/A513M; hot-dipped galvanized and free of excess weld and spatter.
  - 1. Tensile Strength: 45,000 psi, minimum.
  - 2. Yield Point: 33,000 psi, minimum.
  - 3. Galvanizing: Hot-dip metal components in zinc after fabrication, in accordance with ASTM A123/A123M; remove tailings and sharp protrusions and burnish edges.
- B. Extruded Aluminum: ASTM B221 or ASTM B221M, Alloy 6061, 6062, or 6063.
  - 1. Tensile Strength: 39,000 psi, minimum.
  - 2. Yield Point: 36,500 psi, minimum.
- C. Hardware: Provide without hazardous protrusions, corners, or finishes, and that require tools for removal after installation; countersunk fasteners are preferred.
  - 1. Use stainless steel for metal-to-metal connections; select type to minimize galvanic corrosion of materials connected by hardware.
  - 2. Use stainless steel for wood-to-wood and wood-to-metal connections.
  - 3. Use stainless steel with plastic components.
  - 4. Bearings: Self lubricating.
  - 5. Hooks, Including S-Hooks: Closed loop; maximum gap 0.04 inches, less than the thickness of a dime.
  - 6. Rails, Loops, and Hand Bars: Same metal as item is mounted on or aluminum; with powder coating.

- 7. Anchors: In accordance with manufacturer's recommendations.
- D. Boards and Timbers: Free of holes, cracks, and loose knots; do not use wood or wood coatings that contain pesticides; do not utilize used lumber.
- E. Transparent Plastic: Clear polycarbonate plastic sheets, flat; shatterproof; resistant to crazing, cracking, and fogging.
  - 1. Sheet Thickness: 3/16 inch, minimum.
- F. Opaque Plastic: Molded homogeneous plastic or wood-polymer composite lumber; do not use plastic as major load bearing members; use as deck boards, panels, and railings is acceptable.
  - 1. Homogeneous Plastic: Ultraviolet (UV) and color stabilized polyethylene without applied surface coating; color through entire thickness.
  - 2. Wood-Polymer Composite Lumber: Comply with ASTM D6662; factory finished.
  - 3. Decks and Platforms: Non-slip surface texture.
  - 4. Maximum Deflection: 1/360 of span, when tested in accordance with ASTM D648, with a uniform live load of 40 pounds/ft.
  - 5. Deck Board Span: 12 inches on center, maximum, spanning minimum of 3 joists.
  - 6. Panel Thickness: 3/16 inch, minimum.
  - 7. Panel Edges: 3/16 inch radius, minimum.

### **PART 3 EXECUTION**

#### **3.01 VERIFICATION OF CONDITIONS**

- A. Verify that playground area has been graded to subgrade elevations required and that excess soil, rocks, and debris have been removed.
- B. Verify that playground equipment footings have been installed in proper locations and at proper elevations.
- C. Verify location of underground utilities and facilities in playground area; damage to underground utilities and facilities will be repaired at Contractor's expense.

#### **3.02 PREPARATION**

- A. Stake location of playground elements, including Use Zone perimeters, perimeter of protective surfacing, access and egress points, hard surfaces, walls, fences, and structures, and planting locations.
- B. Stake layout of entire Use Zone perimeter before starting any work and before subbase under resilient surfacing is laid.
  - 1. Verify that Use Zone perimeters do not overlap hard surfaces, whether currently installed or not.
  - 2. Verify that Use Zones are free of obstructions that would extend into resilient portion of protective surfacing.
  - 3. If conflicts or obstructions exist, notify Architect.

4. Do not proceed until revised drawings have been provided, showing corrected layout, and obstructions have been removed.

### **3.03 INSTALLATION**

- A. Coordinate work with preparation for and installation of protective surfacing specified in Section 32 1816.13; install protective surfacing after playground equipment installation.
- B. Install in accordance with CPSC Pub. No. 325, ASTM F1487, manufacturer's instructions, and requirements of authorities having jurisdiction (AHJ).
- C. Anchor equipment securely below bottom elevation of resilient surfacing layer.
- D. Install without sharp points, edges or protrusions, entanglement hazards, pinch, crush, or shear points.
- E. Do not modify play events on site without written approval of manufacturer.
- F. Install required signage if not factory-installed.

### **3.04 FIELD QUALITY CONTROL**

- A. Owner or Owner's representative will inspect playground equipment after installation to verify that playground meets specified design safety and accessibility requirements.
- B. Repair or replace rejected work until compliance is achieved.

### **3.05 CLEANING**

- A. Restore adjacent existing areas that have been damaged from the construction.
- B. Clean playground equipment of construction materials, dirt, stains, filings, and blemishes due to shipment or installation; clean in accordance with manufacturer's instructions, using cleaning agents as recommended by manufacturer.
- C. Clean playground area of excess construction materials, debris, and waste.
- D. Remove excess and waste material and dispose of off-site in accordance with requirements of authorities having jurisdiction (AHJ).

### **3.06 PROTECTION**

- A. Protect installed products until Date of Substantial Completion.
- B. Replace damaged products before Date of Substantial Completion.

**END OF SECTION 11 6813**

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**Section 12 3600**

**Countertops**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. Countertops for architectural cabinet work.

**1.02 DESCRIPTION OF WORK**

- A. Replacement of existing kitchen and restroom countertops over existing or new casework including caulk where new countertops abut wall.

**1.03 REFERENCE STANDARDS**

- A. ANSI A208.2 - Medium Density Fiberboard (MDF) for Interior Applications; 2022.
- B. ASTM A666 - Standard Specification for Annealed or Cold-Worked Austenitic Stainless Steel Sheet, Strip, Plate, and Flat Bar; 2023.
- C. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2023d.
- D. AWI/AWMAC/WI (AWS) - Architectural Woodwork Standards, 2nd Edition; 2014, with Errata (2016).
- E. IAPMO Z124 - Plastic Plumbing Fixtures; 2022, with Editorial Revision.
- F. California Green Building Code 2013: Residential Mandatory Measures; Section 4.504 Pollution Control.
- G. ISFA 2-01 - Classification and Standards for Solid Surfacing Material; 2013.
- H. NEMA LD 3 - High-Pressure Decorative Laminates; 2005.
- I. NSI (DSDM) - Dimensional Stone Design Manual, Version VIII; 2016.
- J. SCAQMD 1168 - South Coast Air Quality Management District Rule No. 1168 Adhesive and Sealant Applications; current edition; [www.aqmd.gov](http://www.aqmd.gov).
- K. PS 1 - Structural Plywood; 2023.

**1.04 SUBMITTALS**

- A. See Section 01 3300 - Submittals for submittal procedures.

- B. Product Data: Manufacturer's data sheets on each product to be used, including:
  - 1. Preparation instructions and recommendations.
  - 2. Storage and handling requirements and recommendations.
  - 3. Specimen warranty.
- C. Shop Drawings: Complete details of materials and installation ; combine with shop drawings of cabinets and casework specified in other sections.
- D. Verification Samples: For each finish product specified, minimum size 3 inches square, representing actual product, color, and patterns.
- E. Installation Instructions: Manufacturer's installation instructions and recommendations.
- F. Maintenance Data: Manufacturer's instructions and recommendations for maintenance and repair of countertop surfaces.
- G. Materials must be compliant with the VOC restrictions of California Green Building Standards Code, Section 4.504
  - 1. Adhesive, adhesive bonding primers, adhesive primer, sealants, sealant primers, and caulks shall comply with local or regional air pollution control or air quality management district rule where applicable or SQAQMD Rule 1168 VOC limits, as shown in Table 4.504.1 or 4.504.2, as applicable. Such products also shall comply with the Rule 1168 prohibition on the use of certain toxic compounds (chloroform, ethylene dichloride, methylene chloride, perchloroethylene and trichloroethylene), except for aerosol products, as specified in subsection 2 below.
  - 2. Aerosol adhesives, and smaller unit sizes of adhesives, and sealant or caulking compounds (in units of product, less packaging, which do not weigh more than 1 pound and do not consist of more than 16 fluid ounces) shall comply with statewide VOC standards and other requirements, including prohibitions on use of certain toxic compounds, of *California Code of Regulations*, Title 17, commencing with Section 94507.

### **1.05 QUALITY ASSURANCE**

- A. Installer Qualifications: Company specializing in performing work of the type specified in this section, with not less than five years of documented experience.
- B. Fabricator Qualifications: Skilled workers who custom-fabricate specified countertops similar to the work of this project. Minimum 10 years experience in work of this Section.

### **1.06 DELIVERY, STORAGE, AND HANDLING**

- A. Deliver no components to Project site until areas are ready for installation.
- B. Store products in manufacturer's unopened packaging until ready for installation.
- C. Handle materials to prevent damage to finished surfaces.

- D. Store and dispose of solvent-based materials, and materials used with solvent-based materials, in accordance with requirements of local authorities having jurisdiction.

## **1.07 FIELD CONDITIONS**

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

## **PART 2 PRODUCTS**

### **2.01 COUNTERTOPS**

- A. Plastic Laminate Countertops: High-pressure decorative laminate (HPDL) sheet bonded to substrate.
  - 1. Laminate Sheet: NEMA LD 3, Grade HGS, 0.048 inch nominal thickness.
    - a. Manufacturers:
      - 1) Formica Corporation: [www.formica.com/#sle](http://www.formica.com/#sle).
      - 2) Panolam Industries International, Inc: [www.panolam.com/#sle](http://www.panolam.com/#sle).
      - 3) Wilsonart: [www.wilsonart.com/#sle](http://www.wilsonart.com/#sle).
      - 4) Substitutions: See Section 01 6000 - Product Requirements.
    - b. Surface Burning Characteristics: Flame spread index of 25, maximum; smoke developed index of 450, maximum; when tested in accordance with ASTM E84.
    - c. NSF approved for food contact.
    - d. Wear Resistance: In addition to specified grade, comply with NEMA LD 3 High Wear Grade requirements for wear resistance.
    - e. Finish: Matte or suede, gloss rating of 5 to 20.
    - f. Surface Color and Pattern: As selected by Architect from the manufacturer's full line.
  - 2. Exposed Edge Treatment: Postformed laminate; front edge substrate built up to minimum 1-1/4 inch thick with raised radiused edge, integral coved backsplash with radiused top edge.
    - a. Location: Break Room
  - 3. Exposed Edge Treatment: Molded PVC edge with T-spline, sized to completely cover edge of panel.
    - a. Color: As selected by Architect from the manufacturer's full line.
    - b. Location: Study Room
- B. Solid Surfacing Countertops: Solid surfacing sheet or plastic resin casting over continuous substrate.
  - 1. Flat Sheet Thickness: 1/2 inch, minimum.
  - 2. Solid Surfacing Sheet and Plastic Resin Castings: Complying with ISFA 2-01 and NEMA LD 3; acrylic or polyester resin, mineral filler, and pigments; homogenous, non-porous and capable of being worked and repaired using standard woodworking tools; no surface coating; color and pattern consistent throughout thickness.
    - a. Manufacturers:
      - 1) Dupont: [www.corian.com/#sle](http://www.corian.com/#sle).

- 2) LG Hausys America, Inc; HI-MACS 12mm: [www.lghausysusa.com/#sle](http://www.lghausysusa.com/#sle)., basis of design
  - 3) Wilsonart: [www.wilsonart.com/#sle](http://www.wilsonart.com/#sle).
  - 4) Substitutions: See Section 01 6000 - Product Requirements.
  - b. Surface Burning Characteristics: Flame spread index of 25, maximum; smoke developed index of 450, maximum; when tested in accordance with ASTM E84.
  - c. Finish on Exposed Surfaces: Matte, gloss rating of 5 to 20.
  - d. Color and Pattern: As selected by Architect from manufacturer's full line.
  3. Other Components Thickness: 1/2 inch, minimum.
  4. Counter Depth: 26 inch
  5. Exposed Edge Treatment: Built up to minimum 1 inch thick net; eased edge.
  6. Back and End Splashes: Same sheet material, square top; minimum 4 inches high.
  7. Skirts: Locate where open below and as indicated on drawings.
- C. Natural Quartz and Resin Composite Countertops: Sheet or slab of natural quartz and plastic resin over continuous substrate.
1. Flat Sheet Thickness: 3/4 inch, minimum.
  2. Natural Quartz and Resin Composite Sheets, Slabs and Castings: Complying with ISSFA-2 and NEMA LD 3; orthophthalic polyester resin, mineral filler, and pigments; homogenous, non-porous; no surface coating; color and pattern consistent throughout thickness.
    - a. Factory fabricate components to the greatest extent practical in sizes and shapes indicated; comply with NSI (DSDM).
    - b. Surface Burning Characteristics: Class 1 rating, Flame spread 25, maximum; smoke developed 450, maximum; when tested in accordance with ASTM E84.
    - c. Sinks: Separate units for undercounter mounting; minimum 3/4 inch wall thickness; comply with IAPMO Z124.
    - d. Finish on Exposed Surfaces: Polished.
    - e. Edges: Double sheet thickness with waterfall or T edge with tight radiused edges
    - f. Color and Pattern: As selected by Architect from manufacturer's full line.
  3. Exposed Edge Treatment: Built up to minimum 1-1/4 inch thick; square edge; use marine edge at sinks.
  4. Back and End Splashes: Same sheet material, eased edge top; minimum 4 inches high.
  5. Skirts: As indicated on drawings.

## **2.02 ACCESSORY MATERIALS**

- A. Plywood for Supporting Substrate: PS 1 Exterior Grade, A-C veneer grade, minimum 5-ply; minimum 3/4 inch thick; join lengths using metal splines.
- B. Adhesives: Chemical resistant waterproof adhesive as recommended by manufacturer of materials being joined.
- C. Cove Molding for Top of Splashes: Rubber with semi-gloss finish and T-spline to fit between splash and wall; 1/2 inch by 1/2 inch.
- D. Joint Sealant: Mildew-resistant silicone sealant, clear.

## **2.03 FABRICATION**

- A. Fabricate tops and splashes in the largest sections practicable, with top surface of joints flush.
  - 1. Join lengths of tops using best method recommended by manufacturer.
  - 2. Fabricate to overhang fronts and ends of cabinets 1 inch except where top butts against cabinet or wall.
  - 3. Prepare all cutouts accurately to size; replace tops having improperly dimensioned or unnecessary cutouts or fixture holes.
- B. Provide back/end splash wherever counter edge abuts vertical surface unless otherwise indicated.
  - 1. Secure to countertop with concealed fasteners and with contact surfaces set in waterproof glue.
  - 2. Height: 4 inches, unless otherwise indicated.
- C. Solid Surfacing: Fabricate tops and wall panels up to 144 inches long in one piece; join pieces with adhesive sealant in accordance with manufacturer's recommendations and instructions.
  - 1. Integral sinks: Shop-mount securely to countertop with adhesives, using flush configuration, as per manufacturer's instructions, and as detailed on drawings.
- D. Cutouts and Holes:
  - 1. Under-Counter Fixtures: Make cutouts for under-counter fixtures in shop using template or pattern furnished by fixture manufacturer. Form cutouts to smooth, even curves.
  - 2. Counter-Mounted Fixtures: Prepare countertops in shop for field cutting openings for counter-mounted fixtures. Mark tops for cutouts and drill holes at corners of cutout locations.
  - 3. Fittings: Drill countertops in shop for plumbing fittings, such as counter-mounted soap dispensers and similar items.
- E. Wall-Mounted Counters: Provide skirts, aprons, brackets, and braces as indicated on drawings, finished to match.

## **PART 3 EXECUTION**

### **3.01 EXAMINATION**

- A. Do not begin installation until substrates have been properly prepared.
- B. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.
- C. Verify that wall surfaces have been finished and mechanical and electrical services and outlets are installed in proper locations.

### **3.02 PREPARATION**

- A. Clean surfaces thoroughly prior to installation.

- B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
- C. Plumber to provide cut out templates and countertop fabricator to prepare cut out for sink, whether rim set or bottom mounted, as well as fixtures.

### **3.03 INSTALLATION**

- A. Securely attach countertops to cabinets using concealed fasteners. Make flat surfaces level; shim where required.
- B. Attach plastic laminate countertops using screws with minimum penetration into substrate board of 1/2 inch.
- C. Attach stainless steel countertops using stainless steel fasteners and clips.
- D. Seal joint between back/end splashes and vertical surfaces.
  - 1. Where indicated use rubber cove molding.
  - 2. Where applied cove molding is not indicated use specified sealant.

### **3.04 TOLERANCES**

- A. Variation From Horizontal: 1/8 inch in 10 feet, maximum.
- B. Offset From Wall, Countertops: 1/8 inch maximum; 1/16 inch minimum.
- C. Field Joints: 1/8 inch wide, maximum.

### **3.05 CLEANING**

- A. Clean countertops surfaces thoroughly.

### **3.06 PROTECTION**

- A. Protect installed products until completion of project.
- B. Touch-up, repair or replace damaged products before Date of Substantial Completion.

**END OF SECTION 12 3600**

**Section 13 2830  
Racquetball and Squash Courts**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. Provide all labor, materials, and equipment necessary to complete the installation of prefabricated racquetball court walls and ceilings, including but not limited to the following:
  - 1. Wall and ceiling panels and related steel stud framing and/or wood furring.
  - 2. Glass walls – Stationary.
  - 3. Light Fixtures.
  - 4. Doors and valuable storage compartments.
  - 5. Floor system.
  - 6. Floor finishing, game lines (and wall markings).
  - 7. Wallyball kits.

**1.02 RELATED REQUIREMENTS**

- A. Section 03 3000 - Cast-in-Place Concrete: Recessed concrete slab
- B. Division 26 0000 - Electrical: Power for court lighting

**1.03 REFERENCE STANDARDS**

- A. ADA Standards - 2010 ADA Standards for Accessible Design; 2010.
- B. ASCE 7 - Minimum Design Loads and Associated Criteria for Buildings and Other Structures; Most Recent Edition Cited by Referring Code or Reference Standard.
- C. ASTM C1048 - Standard Specification for Heat-Strengthened and Fully Tempered Flat Glass; 2018.
- D. NFPA 70 - National Electrical Code; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.
- E. UL (DIR) - Online Certifications Directory; Current Edition.

**1.04 ADMINISTRATIVE REQUIREMENTS**

- A. Preinstallation Meeting: Conduct a preinstallation meeting one month before the start of work; require attendance by affected installers.
  - 1. Verify building requirements, substrate conditions, utility connections, and manufacturer's installation instructions.

### **1.05 SUBMITTALS**

- A. See Section 01 3300 - Submittals for submittal procedures.
- B. Product Data: Submit product data sheets, including material descriptions, dimensions and profiles of components and finishes, and preparation instructions and recommendations.
- C. Shop Drawings: Submit plans, elevations, sections, construction details, and utility connections as necessary for this work.
- D. Samples: Submit two samples of specified wall and ceiling panels, indicating color and texture of finish.
- E. Executed warranty.

### **1.06 QUALITY ASSURANCE**

- A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section, with not less than three years of documented experience.
- B. Installer Qualifications: Company specializing in performing work of the type specified and with minimum three years of documented experience.

### **1.07 DELIVERY, STORAGE, AND HANDLING**

- A. No materials shall be delivered to the jobsite until building is completely enclosed and weathertight.
- B. It is critical to the acclimation of the flooring and panels that proper humidity and temperature be maintained in the court area. Therefore, the permanent HVAC shall be in operation and maintaining court area temperature between 50-80 degrees and 40%-60% humidity prior to and continuously after installation.
- C. Panels should never be subjected to direct sunlight, rain, or wide variations of ambient conditions.
- D. Store materials properly stacked in a clean, dry, storage area.
- E. Panels shall be stacked flat and delivered on skids. After delivery, panels shall have banding and wrap removed to allow panels to acclimate to room conditions.
- F. Material not properly protected and stored and which is defaced or damaged shall be rejected.

### **1.08 WARRANTY**

- A. See Section 01 7800 - Closeout Submittals for additional warranty requirements.

- B. Manufacturer Warranty: Provide manufacturer's warranty for racquetball court as listed. Complete forms in Owner's name and register with manufacturer.
  - 1. Panels: 10 years against defects and delamination.
  - 2. Glass Walls: 5 years
  - 3. Maple Floor: 1 year

## **PART 2 PRODUCTS**

### **2.01 MANUFACTURERS**

- A. Racquetball and Squash Courts:
  - 1. Allied Products, LLC; alliedproductsllc.com (Basis of Design)
  - 2. Playcon; playcon.com
  - 3. Sports Unlimited; sucourts.com
  - 4. Substitutions: See Section 01 6000 - Product Requirements.

### **2.02 PERFORMANCE REQUIREMENTS**

- A. Seismic Performance: Comply with ASCE 7 for seismic design category D, E, or F in accordance with requirements of local authorities having jurisdiction (AHJ).
- B. Electrical Components, Devices, and Accessories: Listed and labeled by ITS (DIR), UL (DIR), or testing agency acceptable to authorities having jurisdiction and installed in compliance with NFPA 70, and marked for intended application.
- C. Accessibility Requirements: Comply with applicable provisions of ADA Standards.

### **2.03 COMPONENTS**

- A. Wall Panels
  - 1. Racquetball Courts:
    - a. Front (main hit) walls: 1-1/8" thick.
    - b. Side and rear walls: 7/8" thick.
    - c. Ceiling: 9/16" thick
  - 2. Dimensions:
    - a. Panels shall be 4' x 8' and 4' x 4' installed in a staggered configuration.
  - 3. Surface:
    - a. High-pressure plastic laminate with velvet texture finish (.050) thick with an average density of 85 lbs./cf.
  - 4. Core:
    - a. Industrial grade high-density particleboard of nominal 55 lbs./cf and 45 lbs./cf density conforming to commercial standards.
  - 5. Adhesive
    - a. Rigid set glue conforming to Federal Specifications MMM-A-188. Attach panels to framing with screws and B.F. Goodrich P.L. 400 or W.W Henry #217 heavy bodied structural adhesive.

**B. Floor Assembly:**

1. Concrete sub-floor shall be furnished to the racquetball court sub-contractor broom-clean and steel troweled smooth and level with a maximum variation of 1/8" in any 10' radius. Any leveling required to meet this tolerance shall be the responsibility of the general contractor or owner.
2. Flooring shall be MFMA hard maple standard T&G strip flooring, 25/32" x 2-1/4".
3. Vapor barrier shall be 6-mil polyethylene.
4. Sleepers shall be spruce, pine or fir, nominal size 2" x 3" x 4' surfaced to uniform thickness, kiln dried, and Woodlife treated, each with five 3/8" thick rubber pads. Sleepers to be installed end to end in rows 9" O.C. in a staggered configuration at right angles to the intended direction of the finished flooring with end joints overlapping 24".
5. Flooring fasteners shall be 2" cleats or 2" staples.
6. Gap of 1/2" between floor and sidewall panels to be left for air circulation and floor expansion.
7. Floor to be sanded with a drum sander using coarse, medium and fine sandpaper. Vacuum or tack floor before first coat of finish.
8. Apply urethane finish per manufacturers specifications.
9. Paint game lines per regulations.

**C. Glass Wall Systems**

1. Complete glass wall systems, court doors, view windows and moveable glass walls as supplied by Allied Products, LLC. Supported by glass fins, aluminum L angle, aluminum posts, or aluminum tube frame. Conforming to Federal Specifications: DD-G-451C, DD-G-001403, ANSI Z97.1 – 1975, CPSC 16 CFR 1201. Heat soaked glass available upon request.

**D. Door**

1. Glass: Shall be 1/2" thick tempered glass. BOCA and FED Spec approved, to meet or exceed all industry standards.

**E. Interior Lighting Fixtures:**

1. Provide flange mount for recessed hard ceiling opening, standard light-emitting diode (LED) lighting fixture, 24 inches wide by 24 inches long, with obscured tempered glass lens.
2. Lumen ID: 17,000
3. Layout: Per manufacturer guidelines.
4. Warranty: 5 year

**F. Heating/Air Conditioning:**

1. Coordinate mechanical ducting and vents with ceiling and wall panels as necessary.

**G. Accessories:**

1. Wallyball Kit – includes ball, net, mounting hardware and rulebook.
  - a. Allied Products, LLC; alliedproductsllc.com (Basis of Design)

### **PART 3 EXECUTION**

#### **3.01 EXAMINATION**

- A. Inspect court area to ensure conditions as set forth in these specifications have been adhered to.
- B. Inspect concrete sub-floors and masonry walls for proper tolerance and dryness. Discrepancies should be reported to the general contractor and architect in writing. Correction of such is the responsibility of others.
- C. If preparation is the responsibility of another installer, notify Architect of unsatisfactory conditions before proceeding with work.
- D. Proceed with installation only after unsatisfactory conditions have been corrected.

#### **3.02 INSTALLATION**

- A. Install structure in accordance with manufacturer's written instructions.
- B. Install metal studs and/or furring in width and spacing in locations as shown on plans. Studs shall be plumb with corners square. Wipe any oil/dirt off surface of steel studs or furring strips. Each stud/furring strip shall receive a ribbon of construction adhesive the full width of the panel.

#### **3.03 CLEANING**

- A. See Section 01 7000 - Execution and Closeout Requirements for additional requirements.
- B. Clean structure in accordance with manufacturer's written instructions.

**END OF SECTION 13 2830**

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**Section 32 1813  
Synthetic Grass Surfacing**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. Synthetic grass.
- B. Cushion layer.
- C. Infill system.
- D. Edge anchoring and borders.
- E. Correction of grades and subgrade.
- F. Drainage layer.

**1.02 RELATED REQUIREMENTS**

- A. Section 03 3000 - Cast-in-Place Concrete.
- B. Section 31 2200 - Grading.
- C. Section 31 2316 - Excavation.
- D. Section 31 2316.13 - Trenching.

**1.03 REFERENCE STANDARDS**

- A. ASTM C136/C136M - Standard Test Method for Sieve Analysis of Fine and Coarse Aggregates; 2019.
- B. ASTM D698 - Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Standard Effort (12,400 ft-lbf/ft<sup>3</sup> (600 kN-m/m<sup>3</sup>)); 2012 (Reapproved 2021).
- C. ASTM D1557 - Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Modified Effort (56,000 ft-lbf/ft<sup>3</sup> (2,700 kN-m/m<sup>3</sup>)); 2012 (Reapproved 2021).
- D. ASTM D6662 - Standard Specification for Polyolefin-Based Plastic Lumber Decking Boards; 2022.
- E. ASTM F1292 - Standard Specification for Impact Attenuation of Surfacing Materials Within the Use Zone of Playground Equipment; 2022.

- F. ASTM F1487 - Standard Consumer Safety Performance Specification for Playground Equipment for Public Use; 2021.
- G. ASTM F1667 - Standard Specification for Driven Fasteners: Nails, Spikes, and Staples; 2021.
- H. ASTM F1936 - Standard Specification for Impact Attenuation of Turf Playing Systems as Measured in the Field; 2010 (Reapproved 2015).
- I. ASTM F2765 - Standard Specification for Total Lead Content in Synthetic Turf Fibers; 2014 (Reapproved 2021).
- J. ASTM F2898 - Standard Test Method for Permeability of Synthetic Turf Sports Field Base Stone and Surface System by Non-confined Area Flood Test Method; 2011 (Reapproved 2019).
- K. CPSC Pub. No. 325 - Public Playground Safety Handbook; 2015.

#### **1.04 SUBMITTALS**

- A. See Section 01 3300 - Submittals, for submittal procedures.
- B. Product Data: For all manufactured surfacing products, provide manufacturer's product data showing materials of construction, compliance with specified standards, installation procedures, and safety limitations.
  - 1. Include STC certifications where required.
- C. Samples: Provide following prior to ordering material:
  - 1. Two 6"x6" samples of 1" cushion layer topped with synthetic turf and attached with turf adhesive.
    - a. Synthetic Grass carpet: Two 12 inch by 12 inch (305 mm by 305 mm) pieces.
    - b. Infill material: Two 1-gallon bags for each type.
    - c. Seamed synthetic grass carpet: Two 12 inch by 24 inch (305 mm by 610 mm) pieces seamed together for each seaming method indicated on drawings.
- D. Manufacturer's Qualification Statement.
- E. Installer's Qualification Statement.
- F. Certification: Provide IPEMA certification of ASTM F1292 Critical Fall Height at thickness specified.

#### **1.05 QUALITY ASSURANCE**

- A. See section 01 4000 - Quality Requirements, for procedures for testing, inspection, mock-ups, reports, certificates, use of reference standards.
- B. Maintain one copy of latest edition of ASTM F1487 and CPSC Pub. No. 325 at project site.

- C. **Manufacturer Qualifications:** Company regularly engaged in manufacturing products specified in this section, with not less than three years of documented experience.
  - 1. Surfacing installed in minimum 10 sites and been in successful service minimum 5 years.
  - 2. **Manufacturer's Representative:** Provide name, company name and address, and qualifications.
  
- D. **Installer Qualifications:** Company certified by manufacturer for training and experience installing protective surfacing; provide installer's company name and address, and training and experience certificate.

### **1.06 DELIVERY, STORAGE, AND HANDLING**

- A. Deliver, handle, and store synthetic grass surfacing to project site in accordance with manufacturer's recommendations.
  
- B. Store materials in dry, covered area, elevated above grade.

### **1.07 FIELD CONDITIONS**

- A. **Ambient Conditions:** Cease work of this section when:
  - 1. Temperatures are below 55 degrees F.
  - 2. Humidity levels are above adhesive manufacturer's requirements.
  - 3. Rain is imminent or falling.
  - 4. Surfaces are wet or damp.

### **1.08 WARRANTY**

- A. See Section 01 7800 - Closeout Submittals - Closeout Submittals, for additional warranty requirements.
  
- B. Provide 5 year minimum warranty from date of substantial completion for materials and installation covering:
  - 1. Excessive wear.
  - 2. Fiber tensile strength.
  - 3. Deterioration or fading from UV light.

## **PART 2 PRODUCTS**

### **2.01 MANUFACTURERS**

- A. Gametime. - [www.gametime.com](http://www.gametime.com)
  - 1. **Contact/Sales Representative:** Jenn Peterson (800)922-0070 x 1071, email: [jpg Peterson@mrcrec.com](mailto:jpg Peterson@mrcrec.com)
    - a. **Quote No.** 111480-04-01
      - 1) **Part #** 47430

- (a) GT-Impax - 2.0" FlexGrass consisting of 1.5" of rubber cushion layer and FlexGround premier synthetic turf with 1-1/2" pile height.

- B. SYNLawN. - www.synlawn.com
- C. Valley Precision Grading, Inc. / TenCate Turf
- D. Substitutions: See Section 01 6000-Product Requirements.

## **2.02 SYNTHETIC GRASS SURFACING**

- A. Synthetic Grass Carpet: Yarn fibers tufted through and adhered to porous fiber backing.
- B. Synthetic Grass Infill: 2 pounds per square foot (10 ksm), minimum at 50 to 50 percent granule to synthetic sand.

## **2.03 MATERIALS**

- A. Edge Anchoring: Wood-polymer composite lumber complying with ASTM D6662; factory finished, free of sharp vertical edges, protruding elements, and trip hazards, capable of being secured to border.
  - 1. Size(s): 2 inch by 3 inch (51 mm by 76mm).
  - 2. Size: As indicated on drawings.
  - 3. Minimum Edge Radius: 1/2 inch.
- B. Border: Permanent element surrounding edge anchoring, consisting of exterior walls:
  - 1. Sidewalks: As indicated on drawings.
  - 2. Concrete Curb: As indicated on drawings.
  - 3. Chain Link Fence: As indicated on drawings.
- C. Drainage (Loose Surfacing) Course: Fractured, non-rounded gravel; washed; free of dust, clay, dirt, organic material, hazardous substances, or foreign objects; rounded particles, either naturally or mechanically; sieved in compliance with ASTM C136/C136M in specified gradation range.
  - 1. Percent Passing Sieve Size 1/2 inch: 100 percent.
  - 2. Percent Passing Sieve Size 3/8 inch: 75 to 85 percent.
  - 3. Percent Passing Sieve Size No. 4: 0 percent.
  - 4. Depth: As indicated on drawings.
- D. Drainage (Base Stone) Course: Fractured, non-rounded gravel; washed; free of dust, clay, dirt, organic material, hazardous substances, or foreign objects; rounded particles, either naturally or mechanically; sieved in compliance with ASTM C136/C136M in specified gradation range.
  - 1. Percent Passing Sieve Size 1-1/2 inch: 100 percent.
  - 2. Percent Passing Sieve Size 3/4 inch: 75 to 85 percent.
  - 3. Percent Passing Sieve Size 1/2 inch: 40 to 70 percent.
  - 4. Percent Passing Sieve Size 3/8 inch: 75 to 85 percent.
  - 5. Percent Passing Sieve Size No. 4: 0 percent.
  - 6. Depth: As indicated on drawings.

- E. Geotextile: Nonwoven polypropylene sheet.

#### **2.04 SOURCE QUALITY CONTROL**

- A. See Section 01 4000 - Quality Requirements, for additional requirements.

### **PART 3 EXECUTION**

#### **3.01 PREPARATION**

- A. Lay out entire project perimeter as indicated on drawings prior to starting work.
- B. Measure location of all synthetic grass elements, including perimeter of existing synthetic grass surfacing, access and egress points, hard surfaces, walls, fences, and structures.
- C. Verify location of underground utilities and facilities in project area. Damage to underground utilities and facilities will be repaired at Contractor's expense.

#### **3.02 EDGE ANCHORING**

- A. Layout composite nailer boards. Approval of locations by Architect required prior to installing.
- B. Install along full perimeter of synthetic grass.
- C. Fasten to border with case hardened screws at 24 inch on center, minimum.
- D. Set top of edging flush or recessed 1/2 inch below top of border, maximum.

#### **3.03 SYNTHETIC GRASS**

- A. Carpet Rolls:
  - 1. Unroll all carpet in same direction.
  - 2. Prevent seams from being located over impact mats.
  - 3. Allow carpet to rest for at least 4 hours after unrolling and prior to seaming.
  - 4. Smooth seams and edges, eliminate overlaps and gaps.
- B. Seaming:
  - 1. Cut: Straight, with clean and smooth edge.
  - 2. Method:
    - a. Bonding: Adhesive-backed, applied uniformly with complete coverage.
- C. Securing: Staple carpet to edging 1 inch (25 mm) on center.

#### **3.04 INFILL**

- A. Apply during dry weather without signs of moisture on synthetic grass.

- B. Thoroughly brush synthetic grass prior to infill installation.
- C. Apply infill uniformly in multiple lifts, brush fibers between each application.
- D. Measure depth to confirm accordance with plans.

### **3.05 FIELD QUALITY CONTROL**

- A. See Section 01 4000 - Quality Requirements, for additional requirements.
- B. Owner or Owner's representative will inspect synthetic grass after installation to verify that surfacing is of proper type and meets specified design safety and accessibility requirements.
- C. Repair or replace rejected work until compliant with specified requirements and design criteria.
- D. Confirm rainfall permeability meets design, per ASTM F2898.
- E. Confirm impact attenuation meets design, per ASTM F1936.
- F. Replace damaged products before Date of Substantial Completion.

### **3.06 CLEANING**

- A. Clean surrounding areas of excess construction materials, debris, and waste.
- B. Remove excess and waste material and dispose of off-site in accordance with requirements of authorities having jurisdiction.
- C. See Section 01 7419 - Construction Waste Management and Disposal, for additional requirements.

### **3.07 PROTECTION**

- A. Protect installed products until Date of Substantial Completion.
- B. Restore adjacent existing areas that have been damaged by work of this section.

**END OF SECTION 32 1813**



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AGENCY

**PORTERVILLE COMMUNITY  
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N 4TH ST, PORTERVILLE, CA 93257  
TYPICAL DETAILS No. 5

NO.	REVISION	DATE
1	Plan Check Revision 1	5/17/24
2	ADDENDUM 6	12/20/24
3		
4		
5		

PROJECT MANAGER

DRAWN BY

CHECKED BY

DATE

09.10.24

PROJECT NUMBER

2883-01-RC22

SHEET

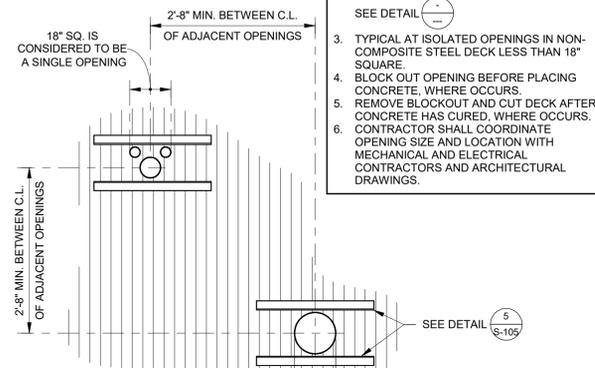
**S-105**

CONSTRUCTION DOCUMENTS

TYPE	PRODUCT	IAPMO REPORT	HEIGHT (INCH)	GAGE	CONCRETE FILL (INCH)	REINFORCING	PROFILE	-Ix MIN (IN <sup>4</sup> )	+Ix MIN (IN <sup>4</sup> )	-Sx MIN (IN <sup>4</sup> )	+Sx MIN (IN <sup>4</sup> )	REMARKS
1	VERCO HSB-36 ACOUSTICAL	UES ER-2018	1.5	18	N/A	N/A		0.299	0.293	0.322	0.306	ACOUSTICAL ROOF DECK

- NOTE:**
- METAL DECK SHALL BE CONTINUOUS OVER 3 SPANS WHERE POSSIBLE. CONTRACTOR SHALL DETERMINE SHORING REQUIREMENTS FOR DECK INSTALLATION.
  - METAL DECK SHALL BEAR A MINIMUM OF 2 INCHES AT ENDS AND 4 INCHES AT INTERMEDIATE SUPPORTING MEMBERS.
  - DECK FLUTES SHALL RUN PERPENDICULAR TO SUPPORTING MEMBERS UNLESS SHOWN OTHERWISE.
  - CONCRETE FILL THICKNESS IS MEASURED FROM TOP OF DECK TO TOP OF CONCRETE. CONTRACTOR TO COMPENSATE FOR FRAMING AND DECK DEFLECTION TO MAINTAIN LEVEL.
  - NO CONDUITS SHALL BE RUN WITHIN THE CONCRETE FILL UNLESS SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS.
  - MECHANICAL, ELECTRICAL, OR PLUMBING UTILITIES HUNG FROM STEEL DECK SHALL NOT EXCEED 100# PER HANGER AND SHALL BE SPACED SO THAT THE TOTAL UTILITY WEIGHT DOES NOT EXCEED 5 PSF.
  - PROVIDE BENT PLATE CLOSURES AT ALL DECK EDGES @ CONC FILL LOCATIONS, U.N.O.
  - THE CONTRACTOR SHALL PROTECT STEEL DECK DURING CONSTRUCTION. ANY DECKING WHICH IS FOUND TO BE DAMAGED SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE.
  - AT WWF SPLICES OVERLAP ADJACENT MATS A MINIMUM OF 14". THERE SHALL BE A MINIMUM OF 2" BETWEEN CROSS WIRES OF THE LAPPED MATS.

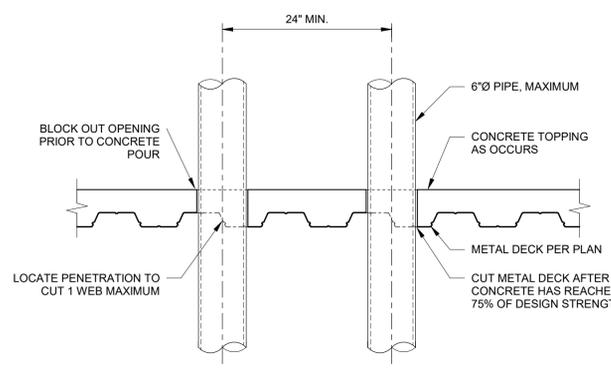
- NOTES:**
- OPENINGS LESS THAN 6"x6" REQUIRE NO FRAMING. SEE DETAIL
  - FOR OPENINGS GREATER THAN 18" OR 75# LOAD DEMAND. SEE DETAIL
  - TYPICAL AT ISOLATED OPENINGS IN NON-COMPOSITE STEEL DECK LESS THAN 18" SQUARE. BLOCK OUT OPENING BEFORE PLACING CONCRETE, WHERE OCCURS.
  - REMOVE BLOCKOUT AND CUT DECK AFTER CONCRETE HAS CURED, WHERE OCCURS. CONTRACTOR SHALL COORDINATE OPENING SIZE AND LOCATION WITH MECHANICAL AND ELECTRICAL CONTRACTORS AND ARCHITECTURAL DRAWINGS.



**DECK PENETRATIONS**

12" = 1'-0"

**1**  
**S-105**



- NOTES:**
- SPACE PENETRATIONS PARALLEL TO DECK 3 DIAMETERS MINIMUM.
  - IF ALL REQUIREMENTS NOTED IN THIS DETAIL ARE NOT MET, TYPICAL METAL DECK PENETRATION DETAILS ARE REQUIRED. SEE DETAIL

**PIPE PENETRATIONS**

1" = 1'-0"

**2**  
**S-105**

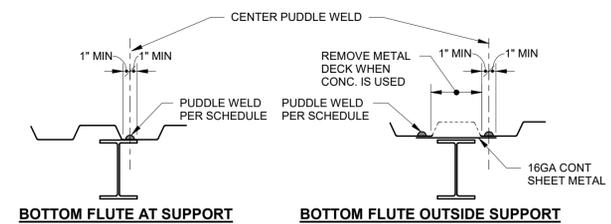
**METAL DECK SCHEDULE**

NO SCALE

**3**  
**S-105**

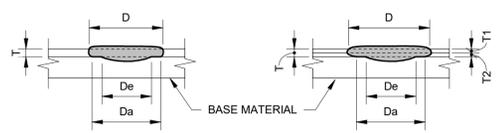
TYPE	TRANSVERSE SUPPORTS (1,2)	PARALLEL SUPPORTS (2)	SIDE SEAMS	REMARKS
1	36/4	PUDDLE WELDS @ 12" O.C.	VERCO SIDELAP CONNECTIONS @ 36" O.C.	

- NOTE:**
- WELD DESIGNATION IS AS FOLLOWS:  
A. 36/7/4 DENOTES 36 INCH WIDE DECK, 7 WELDS @ END PANEL SUPPORTS, 4 WELDS @ INTERIOR PANEL SUPPORTS.  
B. 24/4 DENOTES 24 INCH WIDE DECK, 4 WELDS AT ALL PANEL SUPPORTS.
  - PUDDLE WELDS SHALL HAVE 1/2" EFFECTIVE DIAMETER. SEE
  - A HEADED STUD WELDED THRU DECK MAY REPLACE A SINGLE DECK WELD.



**BOTTOM FLUTE AT SUPPORT**

**BOTTOM FLUTE OUTSIDE SUPPORT**



- NOTE:**  
Da = (D - T)  
De = (0.7D - 1.5T)
- NOTE:**  
Da = (D - 2T)  
De = (0.7D - 1.5T)

**SINGLE THICKNESS OF SHEET**

**DOUBLE THICKNESS OF SHEET**

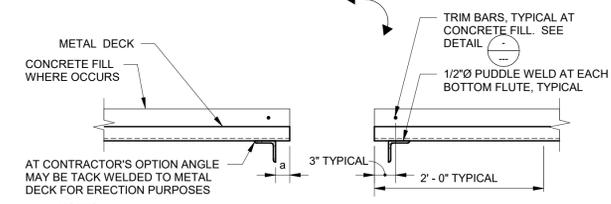
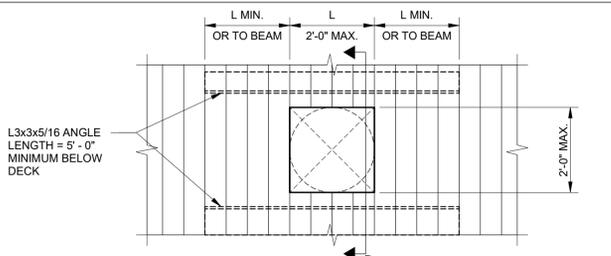
GAGE	VISIBLE WELD SIZE	3/4" DIA. (0.774)	7/8" DIA. (0.811)	7/8" DIA. (0.836)
(0.0283")	22			
(0.0346")	20			
(0.0451")	18			
(0.0566")	16			

- NOTE:**  
BASED ON 1/2" EFFECTIVE WELD  
ARC SPOT WELDS PER A.W.S. D1.3/D1.3M  
D = (De + 1.5T)/0.7 VISIBLE DIAMETER  
Da = RESULTING AVERAGE DIAMETER  
De = EFFECTIVE DIAMETER

**ARC SPOT WELDS PER AWS D1.3/D1.3M**

NO SCALE

**4**  
**S-105**

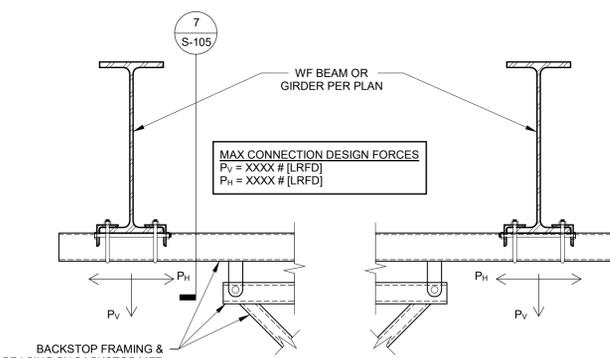


- NOTES:**
- THESE OPENINGS ARE NOT SHOWN ON FRAMING PLANS. a = 2" TYPICAL. ADJACENT L3x3 MAY BE OMITTED WHERE DISTANCE "a" TO BEAM FLANGE IS 8" OR LESS.
  - L3x3's MAY BE OMITTED AT SINGLE OPENINGS 6"Ø / 4" SQUARE OR SMALLER THAT CUT MAXIMUM OF ONE DECK WEB. SEE DETAIL

**DECK PENETRATION REINFORCING**

1" = 1'-0"

**5**  
**S-105**

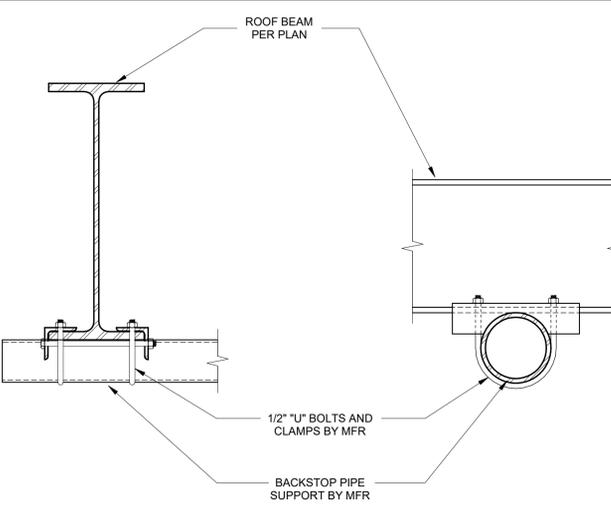


- NOTE:**  
BACKSTOP MFR SHALL FIELD VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO FABRICATION AND INSTALLATION. NOTIFY THE ARCHITECT IMMEDIATELY OF ANY CONDITIONS WHICH INTERFERE WITH PROPER INSTALLATION.

**SECTION**

1" = 1'-0"

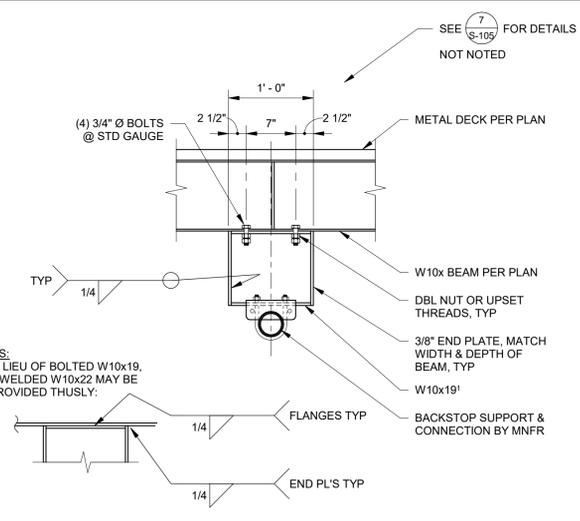
**6**  
**S-105**



**SECTION**

1 1/2" = 1'-0"

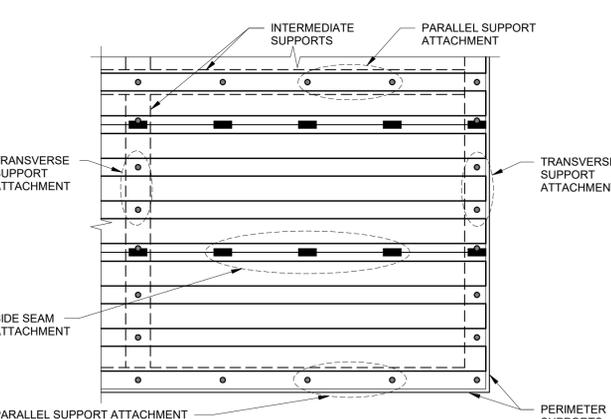
**7**  
**S-105**



**SECTION**

1" = 1'-0"

**8**  
**S-105**



**METAL DECK ATTACHMENT SCHEDULE**

NO SCALE

**9**  
**S-105**



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AGENCY

**PORTERVILLE COMMUNITY  
CENTER**

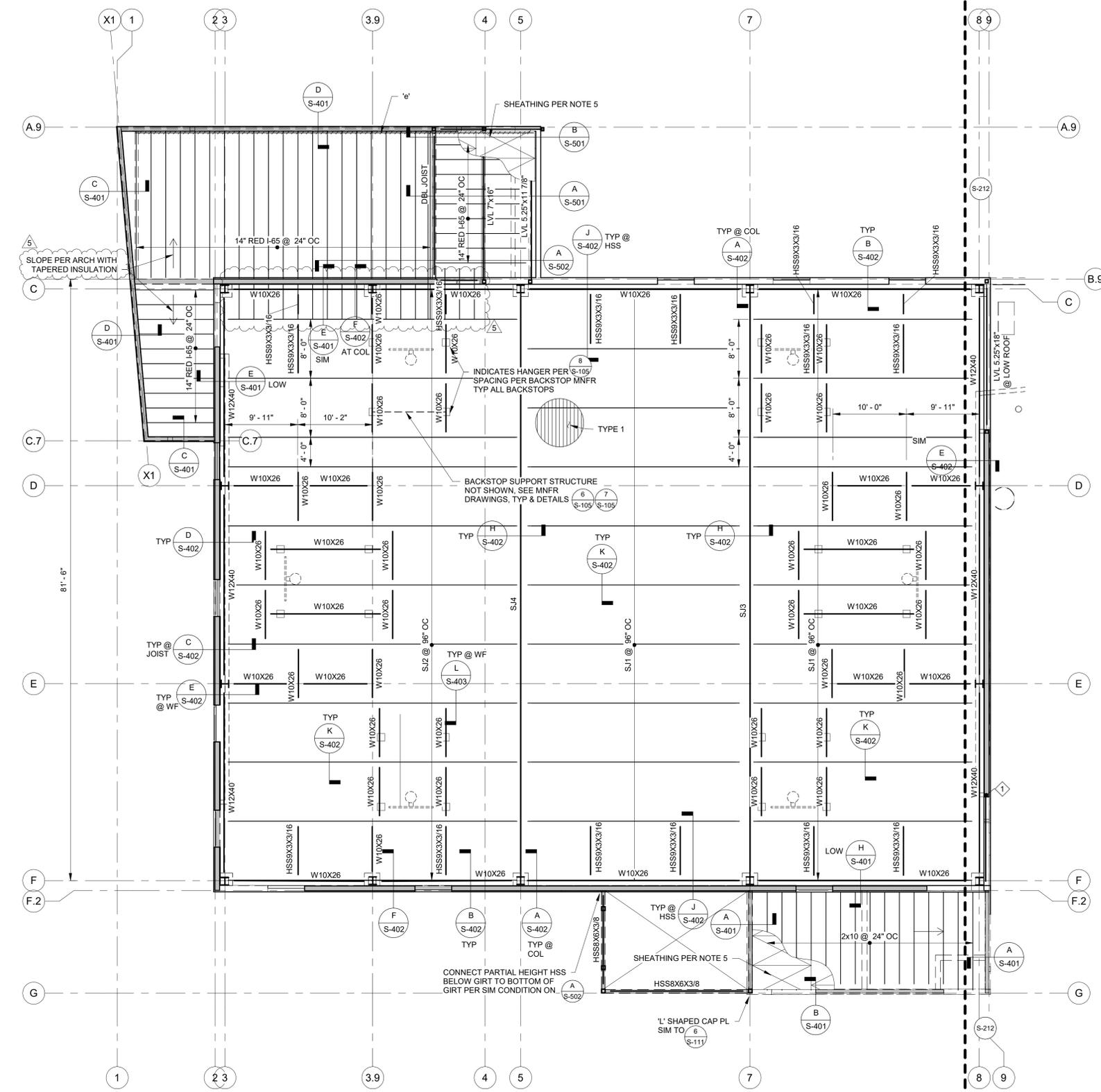
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**ROOF FRAMING PLAN - NORTH**

**ROOF FRAMING NOTES:**

- REFER TO GENERAL NOTES & SPECIFICATIONS ON SHEET S-001 & S-002.
- SEE SHEET S-101 - S-111 FOR TYPICAL FRAMING DETAILS.
- SEE ARCHITECTURAL DRAWINGS FOR ROOF ELEVATIONS.
- CONTRACTOR TO VERIFY ALL DIMENSIONS AND ELEVATIONS SHOWN WITH ARCHITECTURAL DRAWINGS AND INFORM BOTH ARCHITECT AND ENGINEER OF ANY CONFLICTING INFORMATION.
- ROOF SHEATHING SHALL CONSIST OF 1/2" CDX PLYWOOD W/ 10d @ 4" O.C. AT BOUNDARIES AND EDGES, 10d @ 12" O.C. FIELD NAILING. ALL PLYWOOD EDGES SHALL BE FULLY BLOCKED TYPICAL, U.N.O.
- ROOF DIAPHRAGM FASTENING SHALL BE APPROVED BY BUILDING DEPARTMENT PRIOR TO COVERING.
- INSTALL EXTRA 2x6 AT RIDGE LOCATIONS WHERE NECESSARY.
- SEE ARCHITECTURAL DRAWINGS FOR SIZE & LOCATION OF ROOF OPENINGS.
- VERIFY SIZE AND LOCATION OF ALL OPENINGS WITH ARCHITECTURAL DRAWINGS AND MECHANICAL DRAWINGS. NOTIFY STRUCTURAL ENGINEER IMMEDIATELY OF ANY DISCREPANCIES, TYPICAL U.N.O.
- FIRE SPRINKLER PIPING SHALL NOT BE SUPPORTED BY MEMBERS 6" OR LESS IN DEPTH. DESIGN OF THE ATTACHMENT TO THE SUPPORTING MEMBERS SHALL BE THE RESPONSIBILITY OF THE SPRINKLER INSTALLER.
- THE SIZE, LOCATIONS AND ORIENTATIONS OF ALL MECHANICAL UNITS, CURBS, SLEEPERS AND OPENINGS SHALL BE VERIFIED WITH THE UNIT SUPPLIERS. ANY CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.
- ROOF JOISTS SHALL BE BRIDGED EVERY 10 FEET BY SOLID 2X BLOCKING OR BY 1x3 WOOD CROSS BRIDGING OR NAILED STEEL CROSS BRIDGING OF EQUAL STRENGTH.
- ALL RAFTER TO BEAM/GIRDER CONNECTIONS SHALL BE W/ SIMPSON HU HANGERS, U.N.O.
- CONTRACTOR TO USE SKEWED HANGERS IN LIEU OF HANGER SHOWN AS REQUIRED.
- ALL 4x BEAM TO POST CONNECTIONS SHALL BE WITH EPC OR PC POST CAPS, U.N.O.
- ALL 6x BEAM OR GL BEAM TO POST CONNECTIONS SHALL BE WITH ECC OR CC COLUMN CAPS, U.N.O. SEE (S-107)
- TYPICAL HSS COLUMN IN STUD WALL SHALL EXTEND UP TO BOTTOM OF WALL DBL TOP PLATE & SHALL BE ALIGNED WITH AN ADDITIONAL JOIST OR 2 BAYS OF BLKD. SEE (S-111)
- SEE ARCHITECTURAL DRAWINGS FOR SIZE & LOCATION OF DECK PENETRATIONS.
- NO MECHANICAL EQUIPMENT, DUCTWORK, PIPING, ETC SHALL BE HUNG FROM STEEL DECKING UNLESS APPROVED BY THE STRUCTURAL ENGINEER.
- SEE ARCHITECTURAL DRAWINGS FOR EDGE OF DECK LOCATIONS.

- 1 A101 DETAIL/SECTION VIEW WITH VIEW DIRECTION ARROW, DETAIL NUMBER AND SHEET REFERENCE.
- 1 GRID
- INDICATES WALL BELOW
- INDICATES SHEARWALL BELOW
- SIMPSON STRAP. SEE PLAN.
- INDICATES FRAMED DECK OPENING. MATCH JOIST SIZE FRAMING ALL AROUND WITH SIMPSON HU HANGERS EA END
- INDICATES DIRECTION OF ROOF SLOPE. S.A.D.
- INDICATES NEW MECHANICAL UNITS ABOVE ROOF. S.M.D. PROVIDE 3x6 BLKG AROUND PERIMETER OF UNIT AND OPENINGS FOR CURB ATTACHMENT WITH SIMPSON U HANGER EA END. SEE (S-107)
- 600# INDICATES MAXIMUM UNIT WEIGHT.
- INDICATES METAL DECK SEE SCHEDULE (S-105)
- INDICATES HOLDOWN TAG. SEE (S-105)
- 'c' INDICATES CANTILEVER LVL BEAM OUT OVER COLUMN AND USE POST CAP PER (S-107)
- 'd' INDICATES SIMPSON CMSTC16x60' PER (S-107)
- 'e' INDICATES SIMPSON CS14x50' PER (S-107)



**ROOF FRAMING PLAN - NORTH**  
1/8" = 1'-0"

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CONSTRUCTION DOCUMENTS

NO.	REVISION	DATE
△	ADDENDUM 6	12/20/24
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PROJECT MANAGER	
DRAWN BY	CHECKED BY
DATE	09.10.24
PROJECT NUMBER	2883-01-RC22
SHEET	S-213



CONSULTANT

**CORNERSTONE**

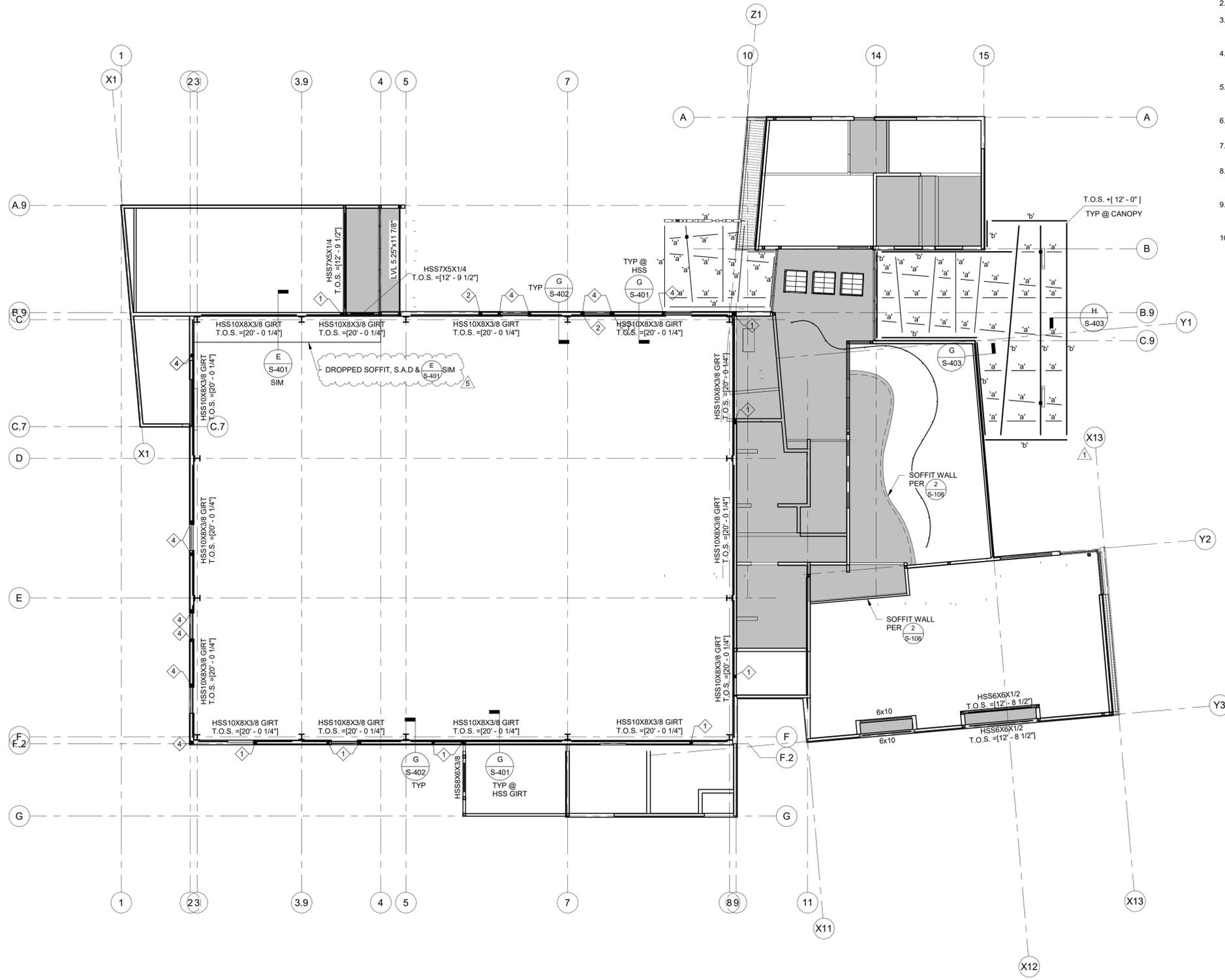
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AGENCY

**CEILING FRAMING NOTES:**

- REFER TO GENERAL NOTES & SPECIFICATIONS ON SHEET S0.01 & S0.02.
- SEE SHEET S1.01-S1.11 FOR TYPICAL DETAILS.
- AT CEILING FRAMING, PROVIDE GYPSUM BOARD (THICKNESS PER ARCH, 1/2" MIN, 1 1/4" MAX), W/ #6 SELF DRILLING DRYWALL SCREWS @ 7" OC EDGE FASTENING & 12" OC FIELD FASTENING IN COMPLIANCE WITH CBC SECTION 2508.6
- AT NON SHEARWALLS SUPPORTING CEILING FRAMING, PROVIDE GYPSUM BOARD FULL HEIGHT (THICKNESS PER ARCH, 1/2" MIN), W/ #6 SELF DRILLING DRYWALL SCREWS @ 7" OC EDGE FASTENING & 12" OC FIELD FASTENING
- CONTRACTOR TO VERIFY ALL DIMENSIONS AND ELEVATIONS SHOWN WITH ARCHITECTURAL DRAWINGS AND INFORM BOTH ARCHITECT AND ENGINEER OF ANY CONFLICTING INFORMATION.
- NO PENETRATIONS FOR PIPING, CONDUIT, OR DUCTWORK SHALL BE MADE THRU THE JOISTS UNLESS APPROVED BY THE ENGINEER.
- ALL DIMENSIONS ARE TO FACE OF WALL, UNLESS NOTED OTHERWISE.
- INDICATES CEILING JOISTS PER  $\frac{1}{8-108}$
- 'a' INDICATES HSS8x3x1/4
- 'b' INDICATES HSS8x3x1/2



**CEILING & LOW FRAMING PLAN**

3/32" = 1'-0"



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CONSTRUCTION DOCUMENTS

**PORTERVILLE COMMUNITY CENTER**  
N 4TH ST, PORTERVILLE, CA 93257  
**CEILING & TRELIS FRAMING PLAN**

NO.	REVISION	DATE
△	Plan Check Revision 1	5/17/24
△	ADDENDUM 6	12/20/24
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PROJECT MANAGER	
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SHEET	

**S-221**



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AGENCY

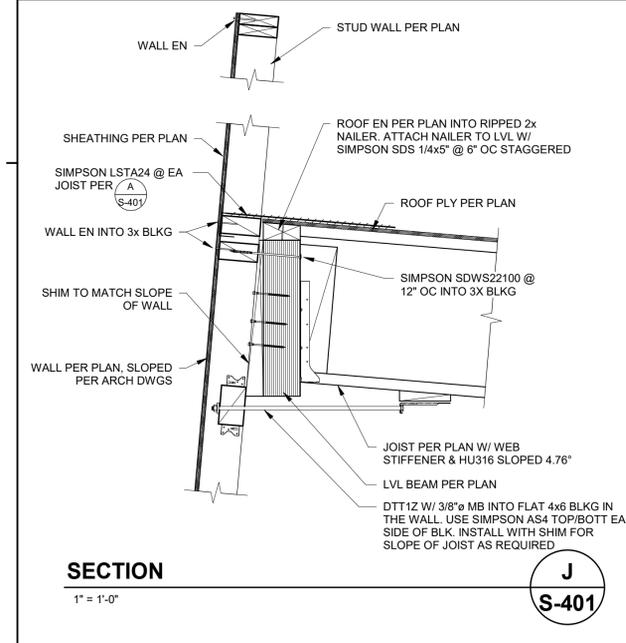
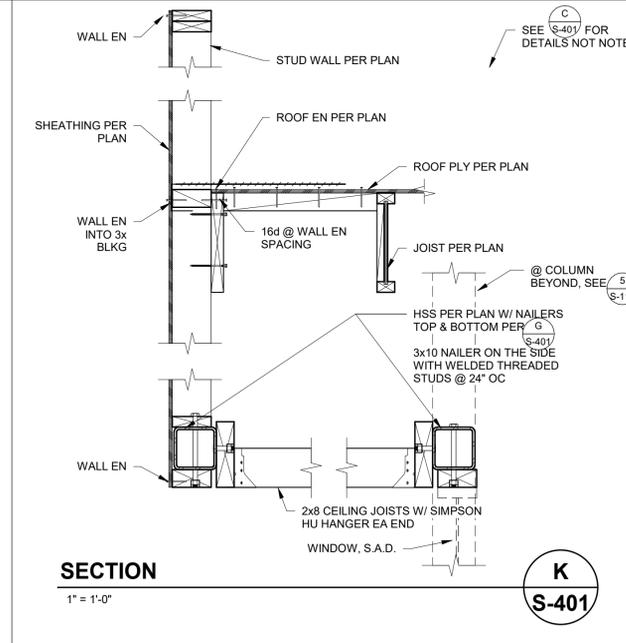
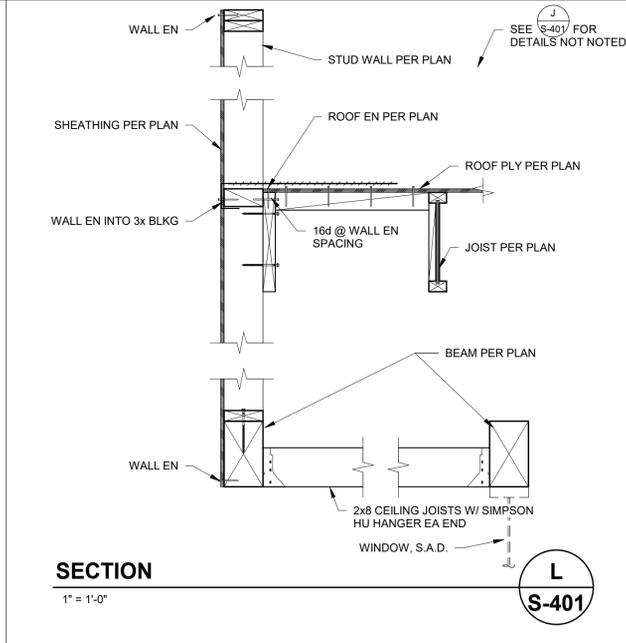
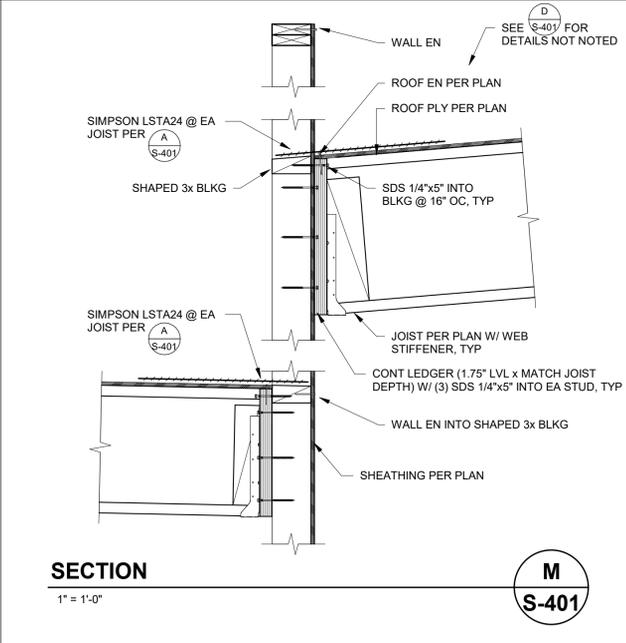
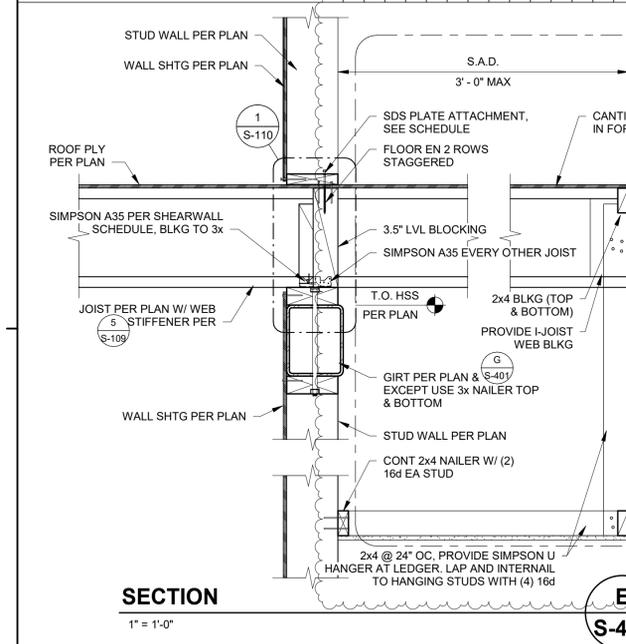
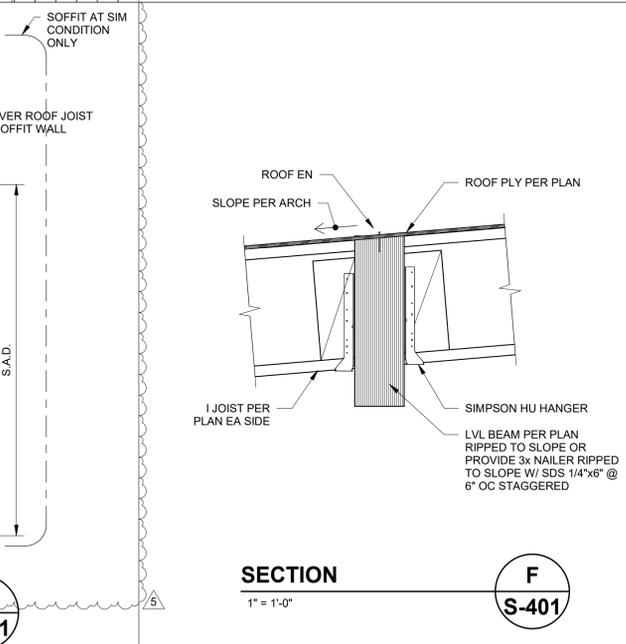
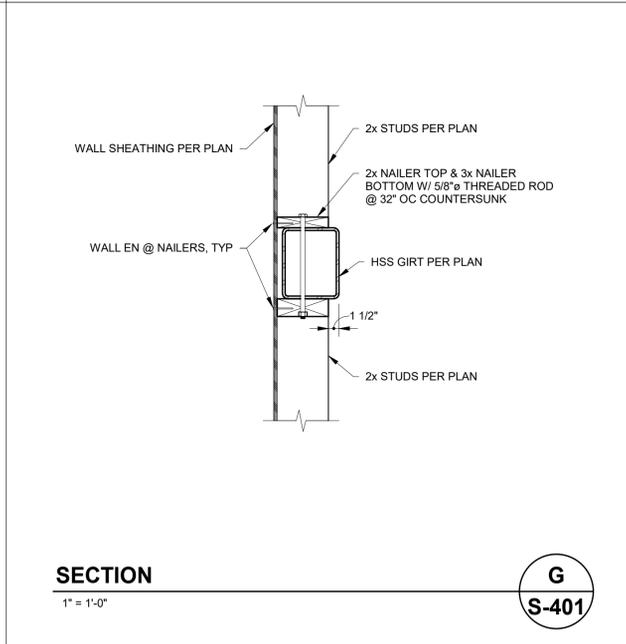
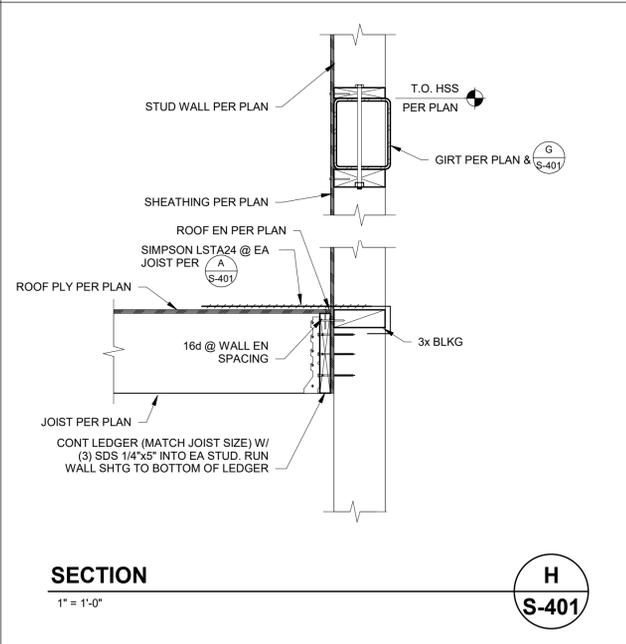
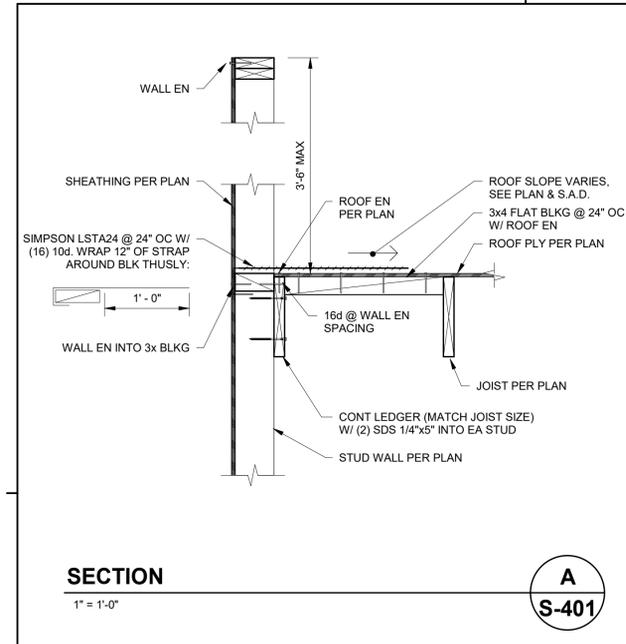
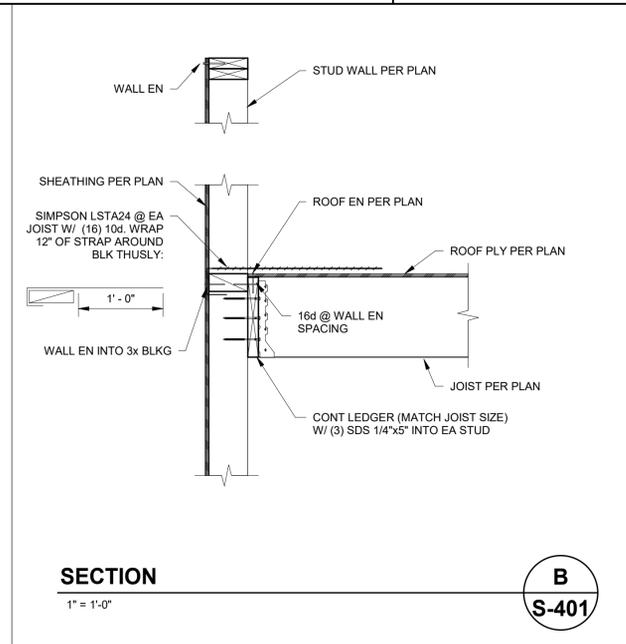
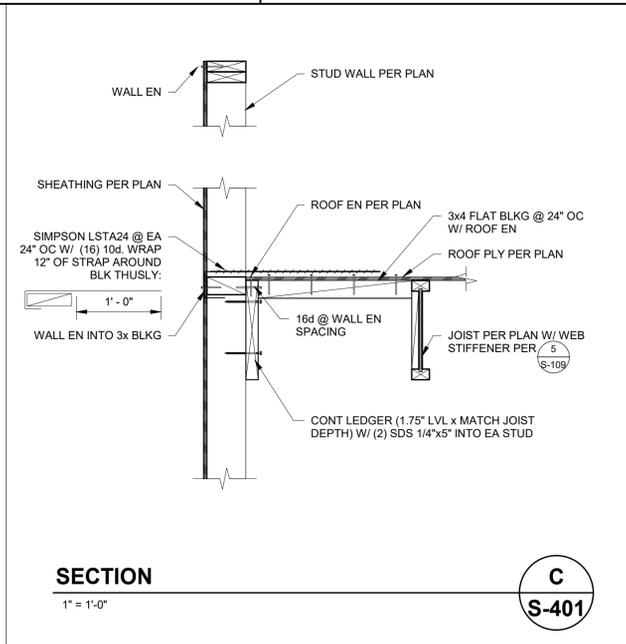
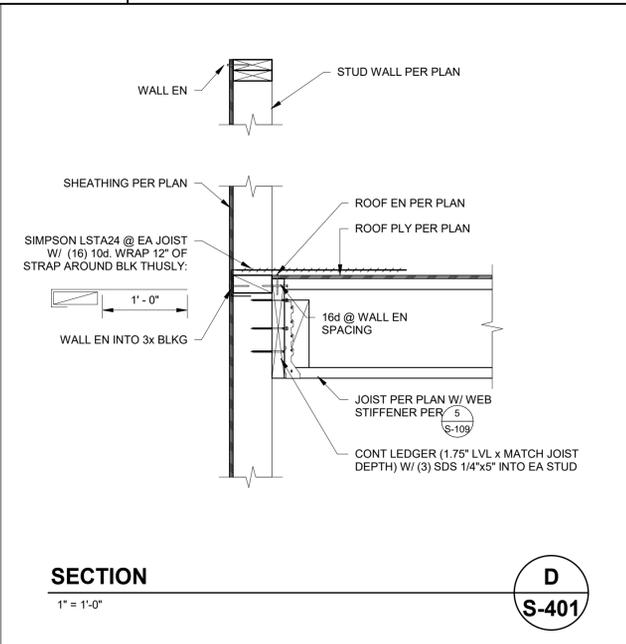
**PORTERVILLE COMMUNITY CENTER**  
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ROOF FRAMING DETAILS NO. 1

NO.	REVISION	DATE
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AGENCY

**PORTERVILLE COMMUNITY  
CENTER**  
N 4TH ST, PORTERVILLE, CA 93257  
TYPICAL DETAILS No. 5

NO.	REVISION	DATE
1	Plan Check Revision 1	5/17/24
2	ADDENDUM 6	12/20/24

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DATE

09.10.24

PROJECT NUMBER

2883-01-RC22

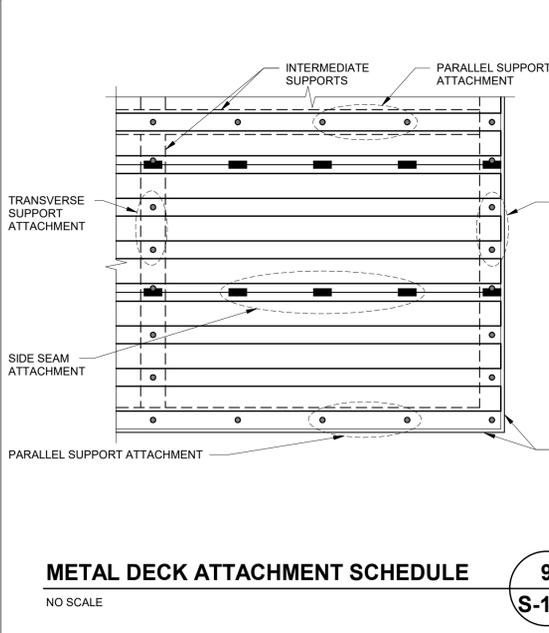
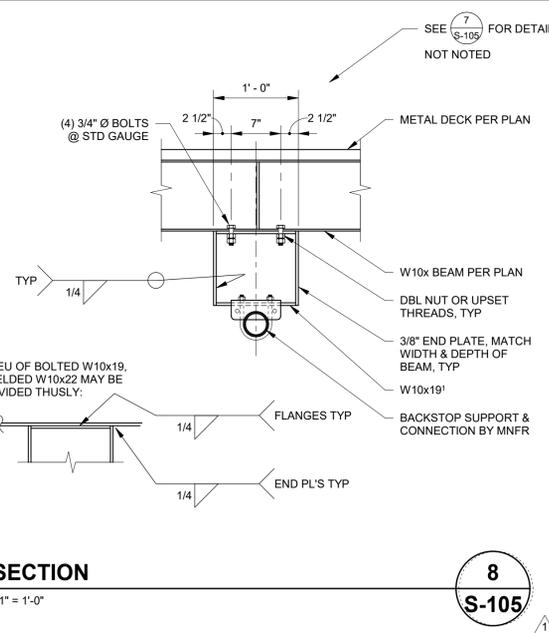
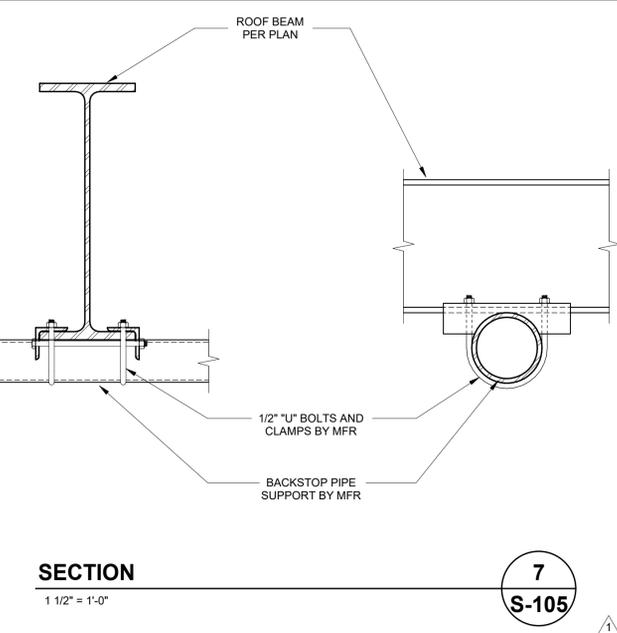
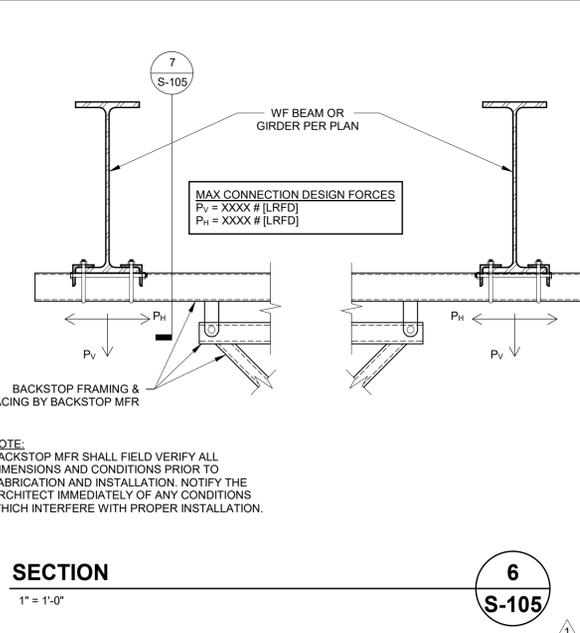
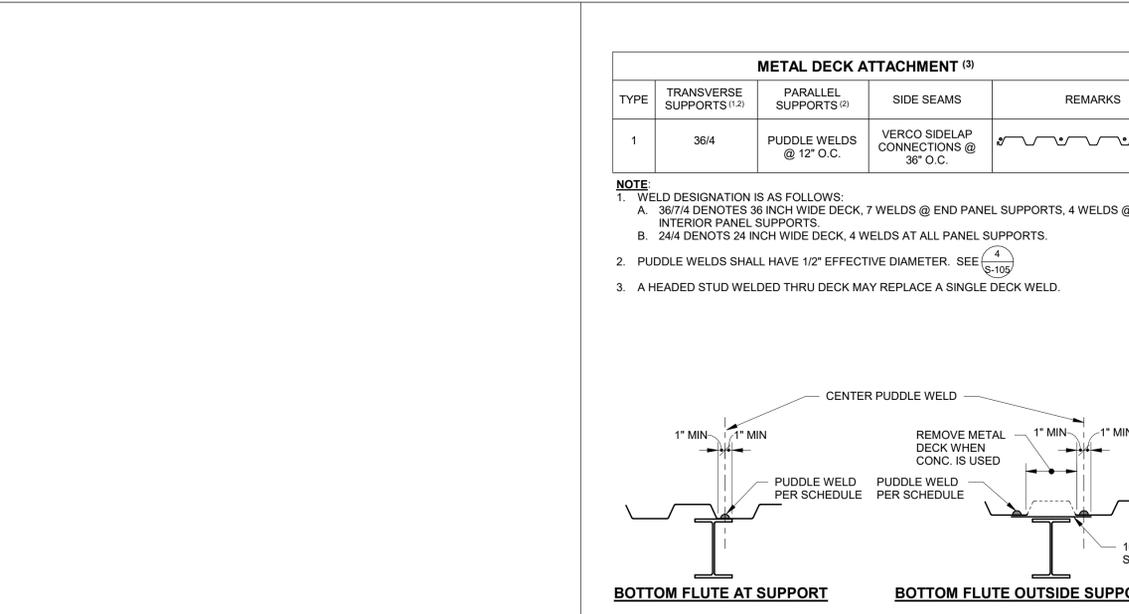
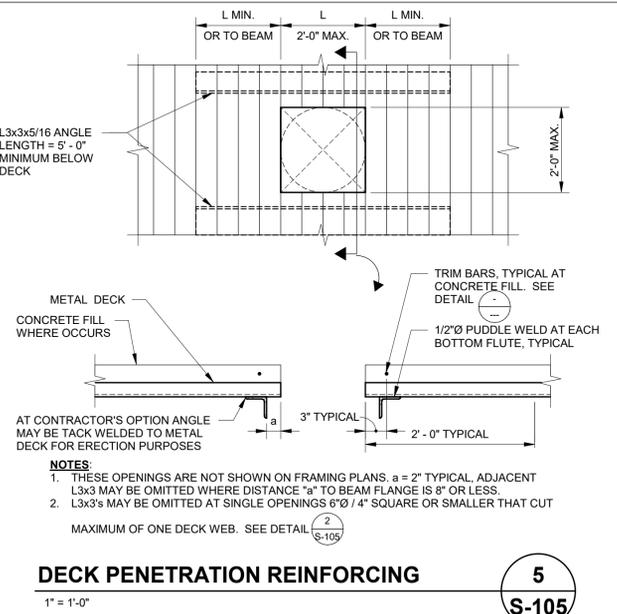
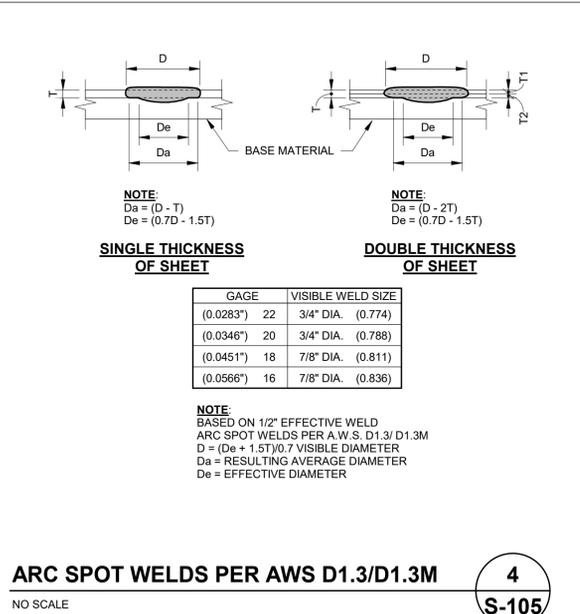
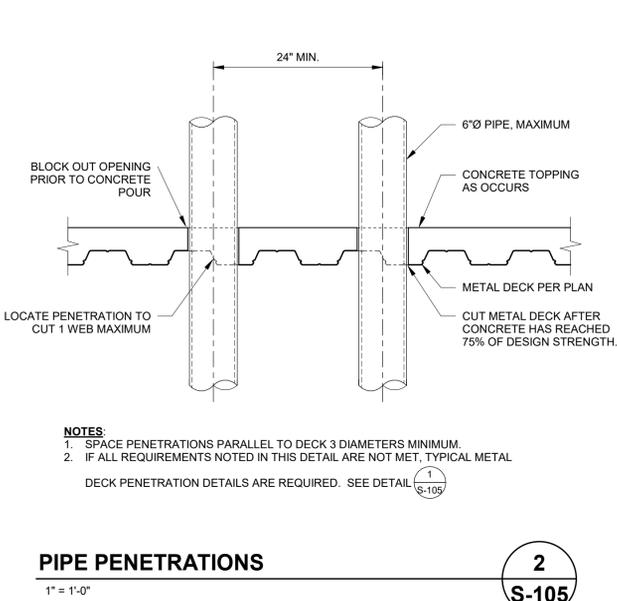
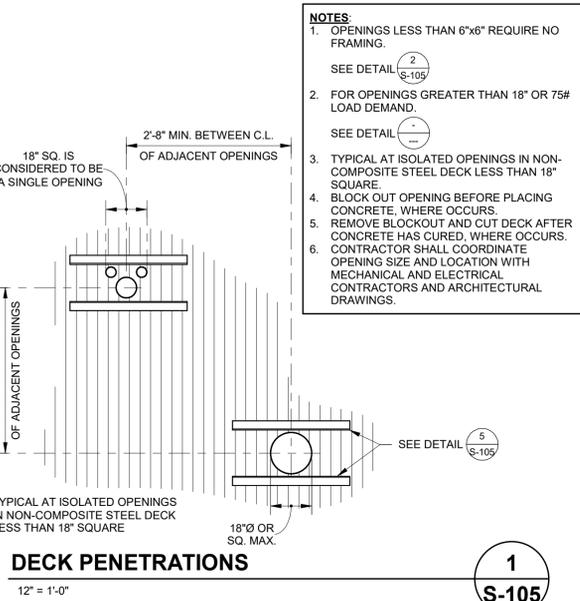
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**S-105**

CONSTRUCTION DOCUMENTS

STEEL DECK SCHEDULE												
TYPE	PRODUCT	IAPMO REPORT	HEIGHT (INCH)	GAGE	CONCRETE FILL (INCH)	REINFORCING	PROFILE	-Ix MIN (IN <sup>4</sup> )	+Ix MIN (IN <sup>4</sup> )	-Sx MIN (IN <sup>4</sup> )	+Sx MIN (IN <sup>4</sup> )	REMARKS
1	VERCO HSB-36 ACOUSTICAL	UES ER-2018	1.5	18	N/A	N/A		0.299	0.293	0.322	0.306	ACOUSTICAL ROOF DECK

- NOTE:**
- METAL DECK SHALL BE CONTINUOUS OVER 3 SPANS WHERE POSSIBLE. CONTRACTOR SHALL DETERMINE SHORING REQUIREMENTS FOR DECK INSTALLATION.
  - METAL DECK SHALL BEAR A MINIMUM OF 2 INCHES AT ENDS AND 4 INCHES AT INTERMEDIATE SUPPORTING MEMBERS.
  - DECK FLUTES SHALL RUN PERPENDICULAR TO SUPPORTING MEMBERS UNLESS SHOWN OTHERWISE.
  - CONCRETE FILL THICKNESS IS MEASURED FROM TOP OF DECK TO TOP OF CONCRETE. CONTRACTOR TO COMPENSATE FOR FRAMING AND DECK DEFLECTION TO MAINTAIN LEVEL.
  - NO CONDUITS SHALL BE RUN WITHIN THE CONCRETE FILL UNLESS SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS.
  - MECHANICAL, ELECTRICAL, OR PLUMBING UTILITIES HUNG FROM STEEL DECK SHALL NOT EXCEED 100# PER HANGER AND SHALL BE SPACED SO THAT THE TOTAL UTILITY WEIGHT DOES NOT EXCEED 5 PSF.
  - PROVIDE BENT PLATE CLOSURES AT ALL DECK EDGES @ CONC FILL LOCATIONS, U.N.O.
  - THE CONTRACTOR SHALL PROTECT STEEL DECK DURING CONSTRUCTION. ANY DECKING WHICH IS FOUND TO BE DAMAGED SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE.
  - AT WWF SPLICES OVERLAP ADJACENT MATS A MINIMUM OF 14". THERE SHALL BE A MINIMUM OF 2" BETWEEN CROSS WIRES OF THE LAPPED MATS.





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fax 509.320.3201

AGENCY

**PORTERVILLE COMMUNITY  
CENTER**  
N 4TH ST, PORTERVILLE, CA 93257  
**ROOF FRAMING PLAN - NORTH**

NO.	REVISION	DATE
△	ADDENDUM 6	12/20/24
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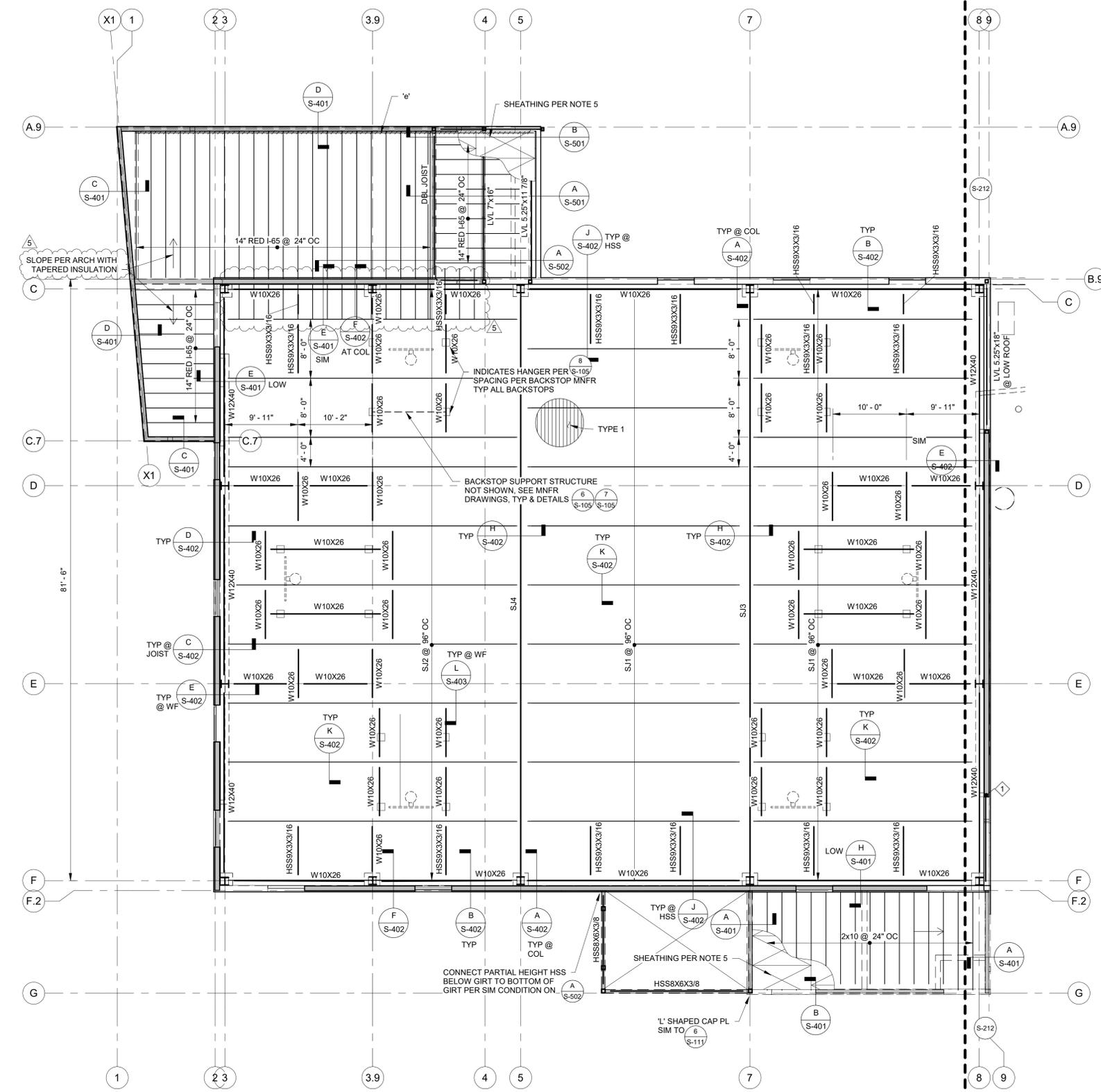
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DATE	
09.10.24	
PROJECT NUMBER	
2883-01-RC22	
SHEET	

**S-213**

**ROOF FRAMING NOTES:**

- REFER TO GENERAL NOTES & SPECIFICATIONS ON SHEET S-001 & S-002.
- SEE SHEET S-101 - S-111 FOR TYPICAL FRAMING DETAILS.
- SEE ARCHITECTURAL DRAWINGS FOR ROOF ELEVATIONS.
- CONTRACTOR TO VERIFY ALL DIMENSIONS AND ELEVATIONS SHOWN WITH ARCHITECTURAL DRAWINGS AND INFORM BOTH ARCHITECT AND ENGINEER OF ANY CONFLICTING INFORMATION.
- ROOF SHEATHING SHALL CONSIST OF 1/2" CDX PLYWOOD W/ 10d @ 4" O.C. AT BOUNDARIES AND EDGES, 10d @ 12" O.C. FIELD NAILING. ALL PLYWOOD EDGES SHALL BE FULLY BLOCKED TYPICAL, U.N.O.
- ROOF DIAPHRAGM FASTENING SHALL BE APPROVED BY BUILDING DEPARTMENT PRIOR TO COVERING.
- INSTALL EXTRA 2x6 AT RIDGE LOCATIONS WHERE NECESSARY.
- SEE ARCHITECTURAL DRAWINGS FOR SIZE & LOCATION OF ROOF OPENINGS.
- VERIFY SIZE AND LOCATION OF ALL OPENINGS WITH ARCHITECTURAL DRAWINGS AND MECHANICAL DRAWINGS. NOTIFY STRUCTURAL ENGINEER IMMEDIATELY OF ANY DISCREPANCIES, TYPICAL U.N.O.
- FIRE SPRINKLER PIPING SHALL NOT BE SUPPORTED BY MEMBERS 6" OR LESS IN DEPTH. DESIGN OF THE ATTACHMENT TO THE SUPPORTING MEMBERS SHALL BE THE RESPONSIBILITY OF THE SPRINKLER INSTALLER.
- THE SIZE, LOCATIONS AND ORIENTATIONS OF ALL MECHANICAL UNITS, CURBS, SLEEPERS AND OPENINGS SHALL BE VERIFIED WITH THE UNIT SUPPLIERS. ANY CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.
- ROOF JOISTS SHALL BE BRIDGED EVERY 10 FEET BY SOLID 2X BLOCKING OR BY 1x3 WOOD CROSS BRIDGING OR NAILED STEEL CROSS BRIDGING OF EQUAL STRENGTH.
- ALL RAFTER TO BEAM/GIRDER CONNECTIONS SHALL BE W/ SIMPSON HU HANGERS, U.N.O.
- CONTRACTOR TO USE SKEWED HANGERS IN LIEU OF HANGER SHOWN AS REQUIRED.
- ALL 4x BEAM TO POST CONNECTIONS SHALL BE WITH EPC OR PC POST CAPS, U.N.O.
- ALL 6x BEAM OR GL BEAM TO POST CONNECTIONS SHALL BE WITH ECC OR CC COLUMN CAPS, U.N.O. SEE (S-107)
- TYPICAL HSS COLUMN IN STUD WALL SHALL EXTEND UP TO BOTTOM OF WALL DBL TOP PLATE & SHALL BE ALIGNED WITH AN ADDITIONAL JOIST OR 2 BAYS OF BLKD. SEE (S-111)
- SEE ARCHITECTURAL DRAWINGS FOR SIZE & LOCATION OF DECK PENETRATIONS.
- NO MECHANICAL EQUIPMENT, DUCTWORK, PIPING, ETC SHALL BE HUNG FROM STEEL DECKING UNLESS APPROVED BY THE STRUCTURAL ENGINEER.
- SEE ARCHITECTURAL DRAWINGS FOR EDGE OF DECK LOCATIONS.

- 1 A101 DETAIL/SECTION VIEW WITH VIEW DIRECTION ARROW, DETAIL NUMBER AND SHEET REFERENCE.
- 1 GRID
- INDICATES WALL BELOW
- INDICATES SHEARWALL BELOW
- SIMPSON STRAP. SEE PLAN.
- INDICATES FRAMED DECK OPENING. MATCH JOIST SIZE FRAMING ALL AROUND WITH SIMPSON HU HANGERS EA END
- INDICATES DIRECTION OF ROOF SLOPE. S.A.D.
- INDICATES NEW MECHANICAL UNITS ABOVE ROOF. S.M.D. PROVIDE 3x6 BLKG AROUND PERIMETER OF UNIT AND OPENINGS FOR CURB ATTACHMENT WITH SIMPSON U HANGER EA END. SEE (S-107)
- 600# INDICATES MAXIMUM UNIT WEIGHT.
- INDICATES METAL DECK SEE SCHEDULE (S-105)
- INDICATES HOLDOWN TAG. SEE (S-105)
- 'c' INDICATES CANTILEVER LVL BEAM OUT OVER COLUMN AND USE POST CAP PER (S-107)
- 'd' INDICATES SIMPSON CMSTC16x60' PER (S-107)
- 'e' INDICATES SIMPSON CS14x50' PER (S-107)



**ROOF FRAMING PLAN - NORTH**  
1/8" = 1'-0"



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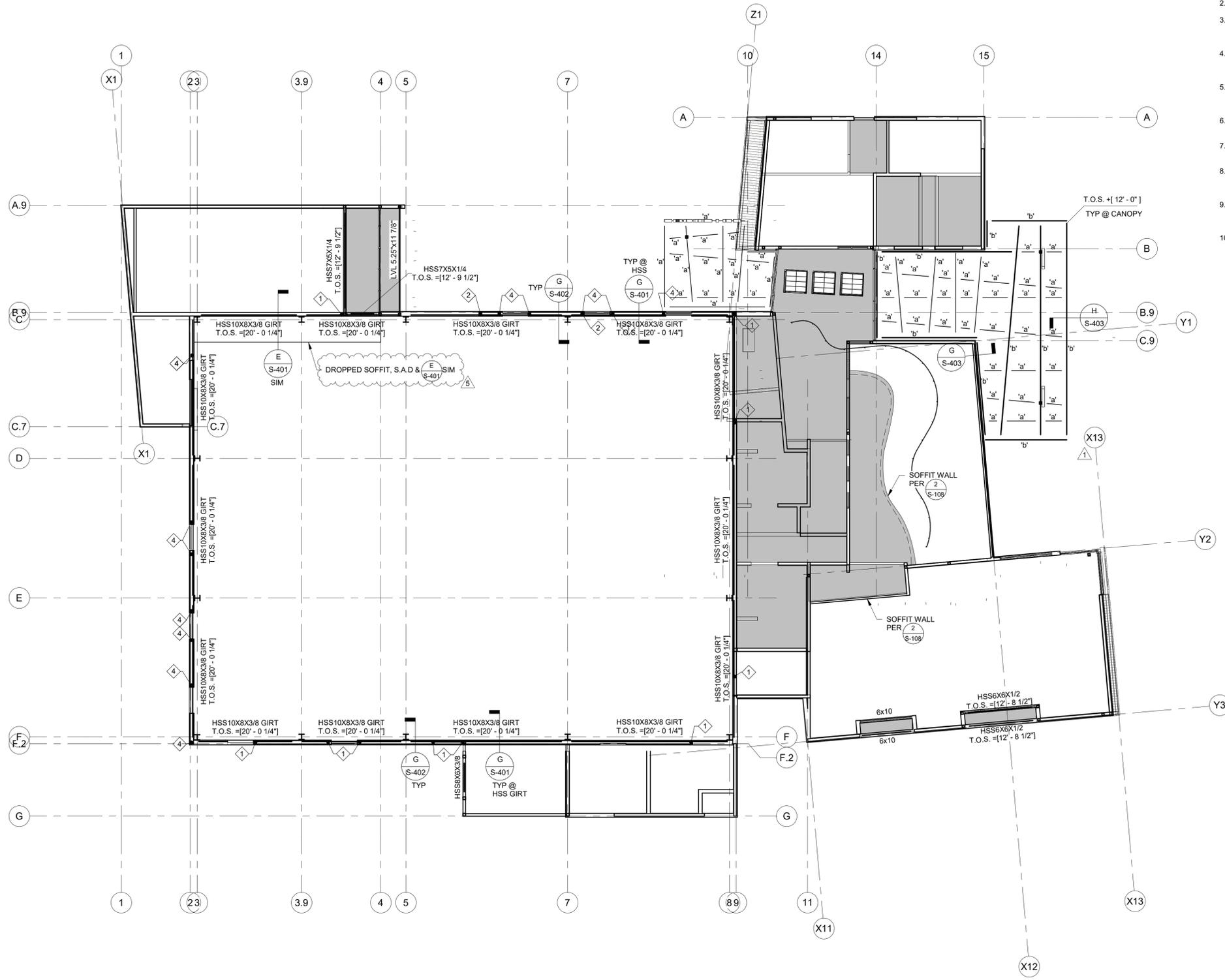
**CORNERSTONE**  
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AGENCY

**CEILING FRAMING NOTES:**

- REFER TO GENERAL NOTES & SPECIFICATIONS ON SHEET S0.01 & S0.02.
- SEE SHEET S1.01-S1.11 FOR TYPICAL DETAILS.
- AT CEILING FRAMING, PROVIDE GYPSUM BOARD (THICKNESS PER ARCH, 1/2" MIN, 1 1/4" MAX), W/ #6 SELF DRILLING DRYWALL SCREWS @ 7" OC EDGE FASTENING & 12" OC FIELD FASTENING IN COMPLIANCE WITH CBC SECTION 2508.6
- AT NON SHEARWALLS SUPPORTING CEILING FRAMING, PROVIDE GYPSUM BOARD FULL HEIGHT (THICKNESS PER ARCH, 1/2" MIN), W/ #6 SELF DRILLING DRYWALL SCREWS @ 7" OC EDGE FASTENING & 12" OC FIELD FASTENING
- CONTRACTOR TO VERIFY ALL DIMENSIONS AND ELEVATIONS SHOWN WITH ARCHITECTURAL DRAWINGS AND INFORM BOTH ARCHITECT AND ENGINEER OF ANY CONFLICTING INFORMATION.
- NO PENETRATIONS FOR PIPING, CONDUIT, OR DUCTWORK SHALL BE MADE THRU THE JOISTS UNLESS APPROVED BY THE ENGINEER.
- ALL DIMENSIONS ARE TO FACE OF WALL, UNLESS NOTED OTHERWISE.
- INDICATES CEILING JOISTS PER  $\frac{1}{8-108}$
- 'a' INDICATES HSS8x3x1/4
- 'b' INDICATES HSS8x3x1/2



**CEILING & LOW FRAMING PLAN**

3/32" = 1'-0"



**PORTERVILLE COMMUNITY CENTER**  
N 4TH ST, PORTERVILLE, CA 93257  
**CEILING & TRELIS FRAMING PLAN**

NO.	REVISION	DATE
△	Plan Check Revision 1	5/17/24
△	ADDENDUM 6	12/20/24
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PROJECT MANAGER	
DRAWN BY	CHECKED BY
DATE	
09.10.24	
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SHEET	

**S-221**



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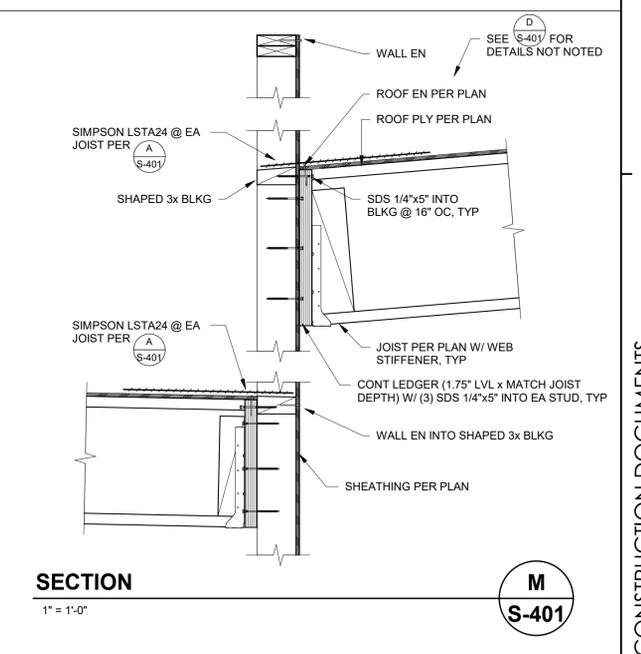
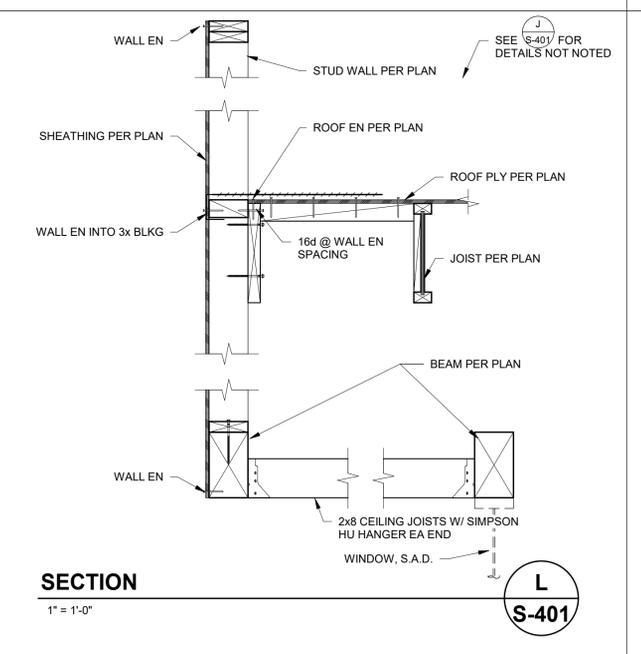
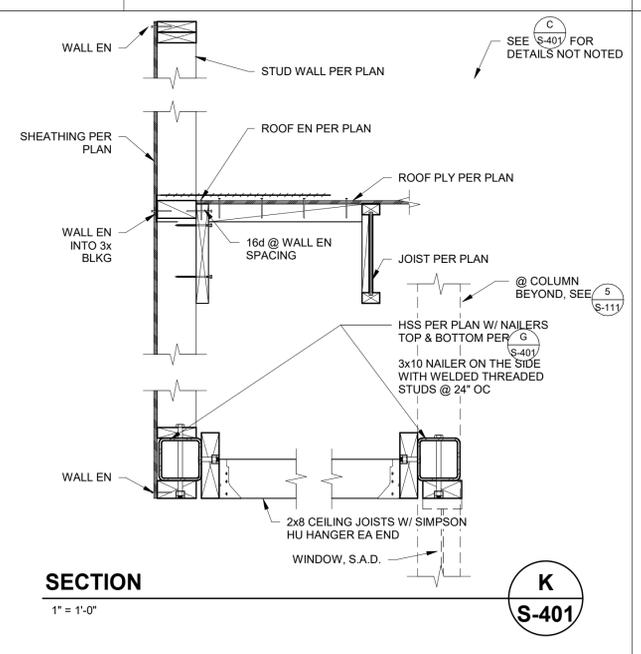
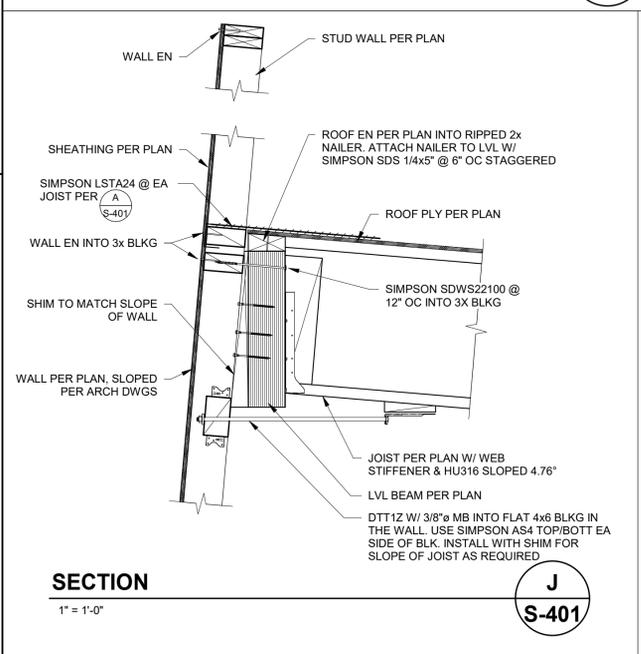
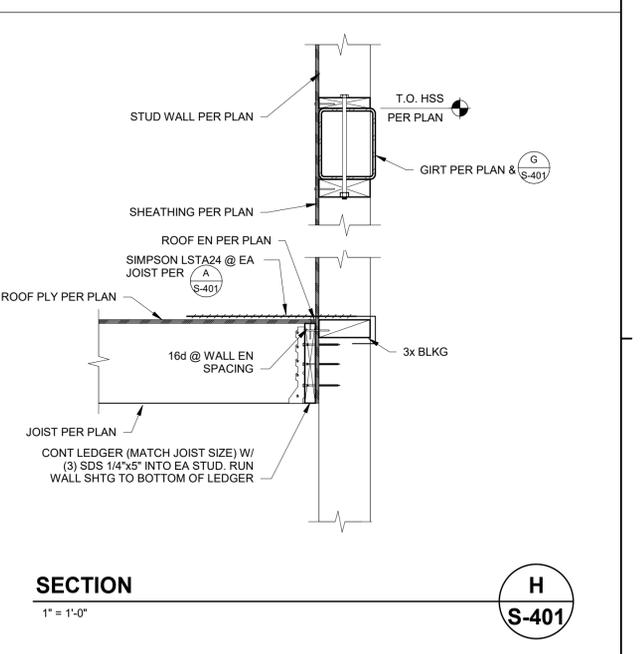
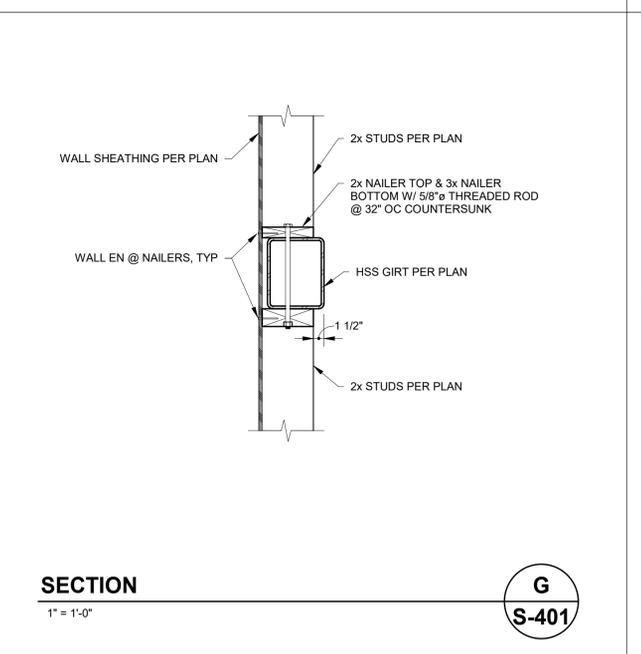
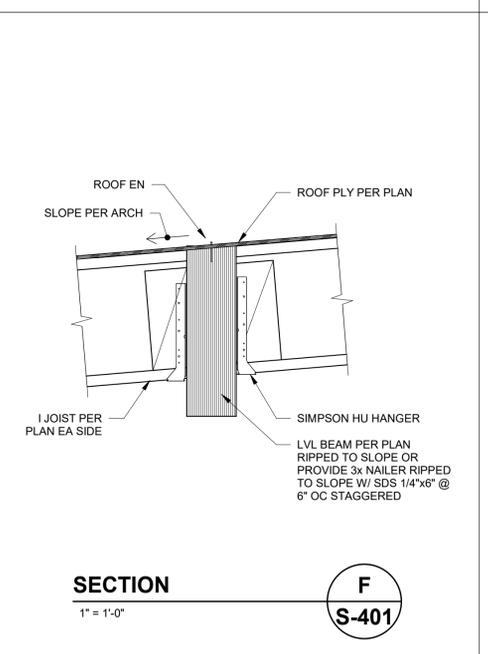
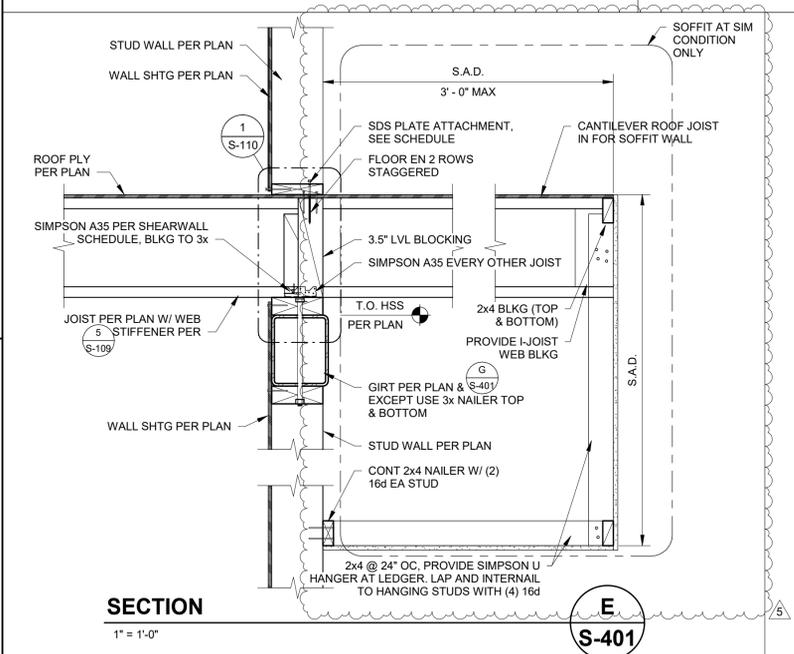
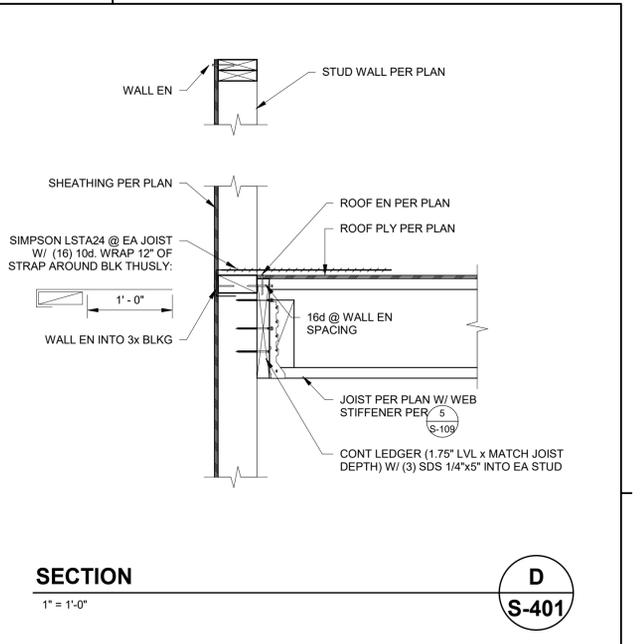
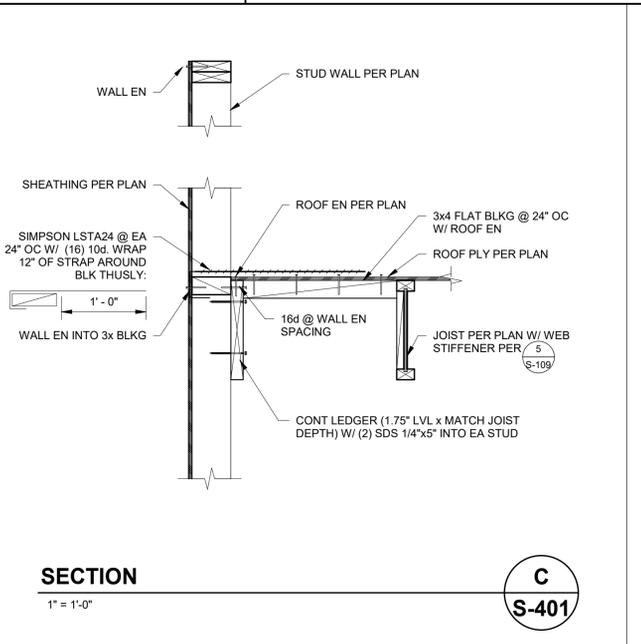
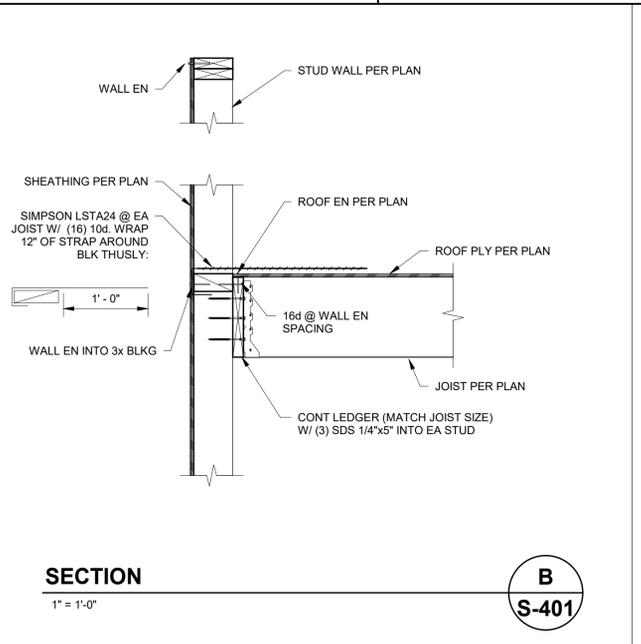
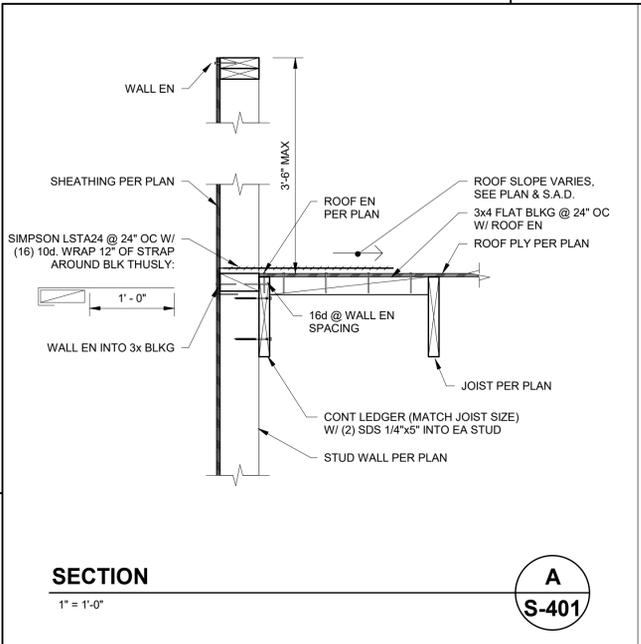
AGENCY

**PORTERVILLE COMMUNITY CENTER**  
N 4TH ST, PORTERVILLE, CA 93257  
ROOF FRAMING DETAILS NO. 1

CONSTRUCTION DOCUMENTS

NO.	REVISION	DATE
△	ADDENDUM 6	12/20/24
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PROJECT MANAGER	
DRAWN BY	CHECKED BY
DATE 09.10.24	
PROJECT NUMBER 2883-01-RC22	
SHEET <b>S-401</b>	



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CONSULTANT

AGENCY

**FLOOR PLAN GENERAL NOTES**

- REFER TO GENERAL NOTES SHEET G-101 FOR ADDITIONAL REQUIREMENTS.
- REFER TO SHEET A921 FOR WALL TYPES
- REFER TO STRUCTURAL PLANS FOR FURTHER INFORMATION.
- REFER TO ELECTRICAL PLANS FOR FURTHER INFORMATION IF PROVIDED.
- REFER TO MECHANICAL PLANS, DRAWINGS OR REPORTS FOR FURTHER INFORMATION.
- REFER TO PLUMBING PLANS OR DRAWINGS FOR FURTHER INFORMATION IF PROVIDED.
- ALL FURNITURE AND EQUIPMENT IS BY OWNER AND IS SHOWN FOR COORDINATION PURPOSES ONLY.
- ALL CASEWORK SHALL BE PROVIDED BY CONTRACTOR
- INTERIOR WALL DIMENSIONS ARE TO FACE OF FRAMING UNLESS SPECIFICALLY NOTED OTHERWISE.
- EXTERIOR DIMENSIONS ARE TO FACE OF SHEATHING UNLESS SPECIFICALLY NOTED OTHERWISE
- PROVIDE ADEQUATE BLOCKING IN WALLS FOR CABINETS AND OTHER WALL MOUNTED ACCESSORIES INCLUDING BUT NOT LIMITED TO HANDRAILS, SHELVING AND BATHROOM FIXTURES.
- PROVIDE FIREBLOCKING FOR WALL CAVITIES THAT EXCEED 2022 CBC HEIGHT LIMITATIONS
- DOOR AND WINDOW DIMENSIONS ARE CENTERED AT OPENINGS
- WHERE DOOR IS LOCATED WITHOUT DIMENSION AT THE CORNER OF A ROOM IT SHALL BE 4" FROM FACE OF FRAMING OF ADJACENT WALL TO ROUGH DOOR OPENING
- SEE CODE ANALYSIS FOR LOCATIONS OF FIRE PARTITIONS AND FIRE BARRIERS
- WHERE RECESSED FIXTURES OCCUR IN WALLS OR HORIZONTAL ASSEMBLIES, THE FIRE RATING OF THOSE ASSEMBLIES SHALL BE MAINTAINED
- AT ALL PENETRATIONS AND INTERSECTIONS OF FIRE-RATED PARTITIONS, PROVIDE FIRE SEALANT AND/OR FIRE STOPPING TO MAINTAIN CONTINUITY OF PARTITION RATING

**KEYNOTES**

- |           |  |
|-----------|--|
| 05 5000.1 | NOT USED   |
| 05 5133.A | INTERIOR METAL LADDER. REFER TO DETAIL 44/A906   |
| 06 1000.C | WALL FRAMING PER STRUCTURAL AND WALL LEGEND  |
| 06 1000.D | COLUMN REFER TO STRUCTURAL   |
| 06 1000.E | PROVIDE BLOCKING FOR OWNER PROVIDED WALL-MOUNTED TV BRACKET. COORDINATE LOCATION W/OWNER |
| 07 7123.A | DOWNSPOUT. MATCH FINISHED WALL COLOR.  |
| 08 4313.A | ALUMINUM STOREFRONT SYSTEM - REFER TO SCHEDULES.   |
| 09 6800   | CARPETING  |
| 09 7800.A | 48"X72" TACKABLE PANEL. REFER TO SPECIFICATIONS.   |
| 09 9000.E | PAINTED STEEL TRELIS. REFER TO STRUCTURAL.   |
| 10 4400.C | RECESSED FIRE EXTINGUISHER CABINET WITH EXTINGUISHER, 2A-10B-C RATING PER DETAIL 41A-941 |
| 11 6623.A | BASKETBALL HOOP AND BACKBOARD REFER TO DETAILS 6-8/S-105                                 |
| 11 6623.B | FLOOR SLEEVES FOR VOLLEYBALL NET POST  |
| 12 6613.A | TELESCOPING BLEACHERS  |
| 22 0000.O | HI LOW DRINKING FOUNTAIN WITH BOTTLE FILLER.   |

**LEGEND**

- |            |   |
|------------|---|
| A6         | EXTERIOR WALL - 2X8 WOOD STUD W/ PLYWOOD SHEATHING, RIGID INSULATION AND 1-1/2" METAL PANEL FINISH, ONE LAYER GYPSUM WALL BOARD INTERIOR.   |
| A8         | EXTERIOR WALL - 2X8 WOOD STUD W/ PLYWOOD SHEATHING, RIGID INSULATION AND 1-1/2" METAL PANEL FINISH, ONE LAYER GYPSUM WALL BOARD INTERIOR.   |
| B          | EXTERIOR WALL - 2X6 WOOD STUD W/ PLYWOOD SHEATHING, RIGID INSULATION AND FIBER-CEMENT BOARD ARCHITECTURAL, ONE LAYER OF GYPSUM WALL BOARD INTERIOR.                                 |
| B1         | EXTERIOR WALL - 2X6 WOOD STUD W/ PLYWOOD SHEATHING, RIGID INSULATION AND FIBER-CEMENT BOARD ARCHITECTURAL, INTERIOR NO FINISH.  |
| B2         | EXTERIOR WALL - 2X6 WOOD STUD W/ PLYWOOD SHEATHING, RIGID INSULATION AND ARCHITECTURAL FIBER-CEMENT BOARD EXTERIOR, ONE LAYER OF PLYWOOD SHEATHING AND FIBER-CEMENT PANEL INTERIOR. |
| B3         | EXTERIOR WALL - 2X6 WOOD STUD W/ PLYWOOD SHEATHING, RIGID INSULATION AND FIBER-CEMENT BOARD ARCHITECTURAL, ONE LAYER OF GYPSUM WALL BOARD INTERIOR.                                 |
| E          | INTERIOR - 2X8 WOOD STUD RACQUETBALL ONE LAYER OF RACQUETBALL WALL PANEL, ONE LAYER OF GYPSUM WALL BOARD. REFER TO FINISH PLAN FOR WALL FINISH                                      |
| E4         | INTERIOR - 2X4 WOOD STUD. REFER TO FINISH PLAN FOR WALL FINISH  |
| E6         | INTERIOR - 2X6 FRAMING WOOD STUD. ONE LAYER GYPSUM WALL BOARD BOTH SIDES. REFER TO FINISH PLAN FOR WALL FINISH  |
| E8         | INTERIOR - 2X8 FRAMING WOOD STUD. GYPSUM WALL BOARD BOTH SIDES. REFER TO FINISH PLAN FOR WALL FINISH  |
| F          | INTERIOR - 2X4 WOOD STUD FURRED. VAPOR BARRIER AND RACQUETBALL WALL PANELS INTERIOR.  |
| F4         | INTERIOR - 2X4 WOOD STUD FURRED. REFER TO FINISH PLAN FOR WALL FINISH   |
| F6         | INTERIOR - 2X6 WOOD STUD FURRED. REFER TO FINISH PLAN FOR WALL FINISH   |
| F6P        | INTERIOR - 2X6 WOOD STUD FURRED WITH PADDING REFER TO FINISH PLAN FOR WALL FINISH   |
| G6         | INTERIOR - 2X6 FRAMING WOOD PARTY WALL STAGGERED STUD. REFER TO FINISH PLAN FOR WALL FINISH   |
| H6         | FIRE PARTITION WALL - 2X6 WOOD STUD, ONE LAYER TYPE X GYPSUM WALLBOARD BOTH SIDES   |
| H8         | FIRE PARTITION WALL - 2X8 WOOD STUD, ONE LAYER TYPE X GYPSUM WALLBOARD BOTH SIDES   |
| Sx         | STOREFRONT ASSEMBLY REFER TO DOOR WINDOW SCHEDULE FOR MORE INFORMATION  |
| (Grey Box) | INDICATES DEPRESSED SLAB REFER TO A501 - FINISH PLAN AND STRUCTURAL 6/S-101 FOR MORE INFORMATION  |



**1 GROUND FLOOR PLAN**  
SCALE: 3/32" = 1'-0"

PLAN CHECK REVISION 2

**FOURTH ST COMMUNITY CENTER AND PARK**  
HENDERSON AVE., PORTERVILLE, CA 93257  
**GROUND FLOOR PLAN**

NO.	REVISION	DATE
△	PLAN CHECK REVISION 1	05/17/24
△	PLAN CHECK REVISION 2	09/17/24
△	ADDENDUM	11/08/24
△	ADDENDUM 6	12/13/24

PROJECT MANAGER  
TSL  
DRAWN BY  
MC, NA, PM  
CHECKED BY  
DD, KF  
DATE  
2024.12.20  
PROJECT NUMBER  
2883-01-RC22  
SHEET  
**A101**



CONSULTANT

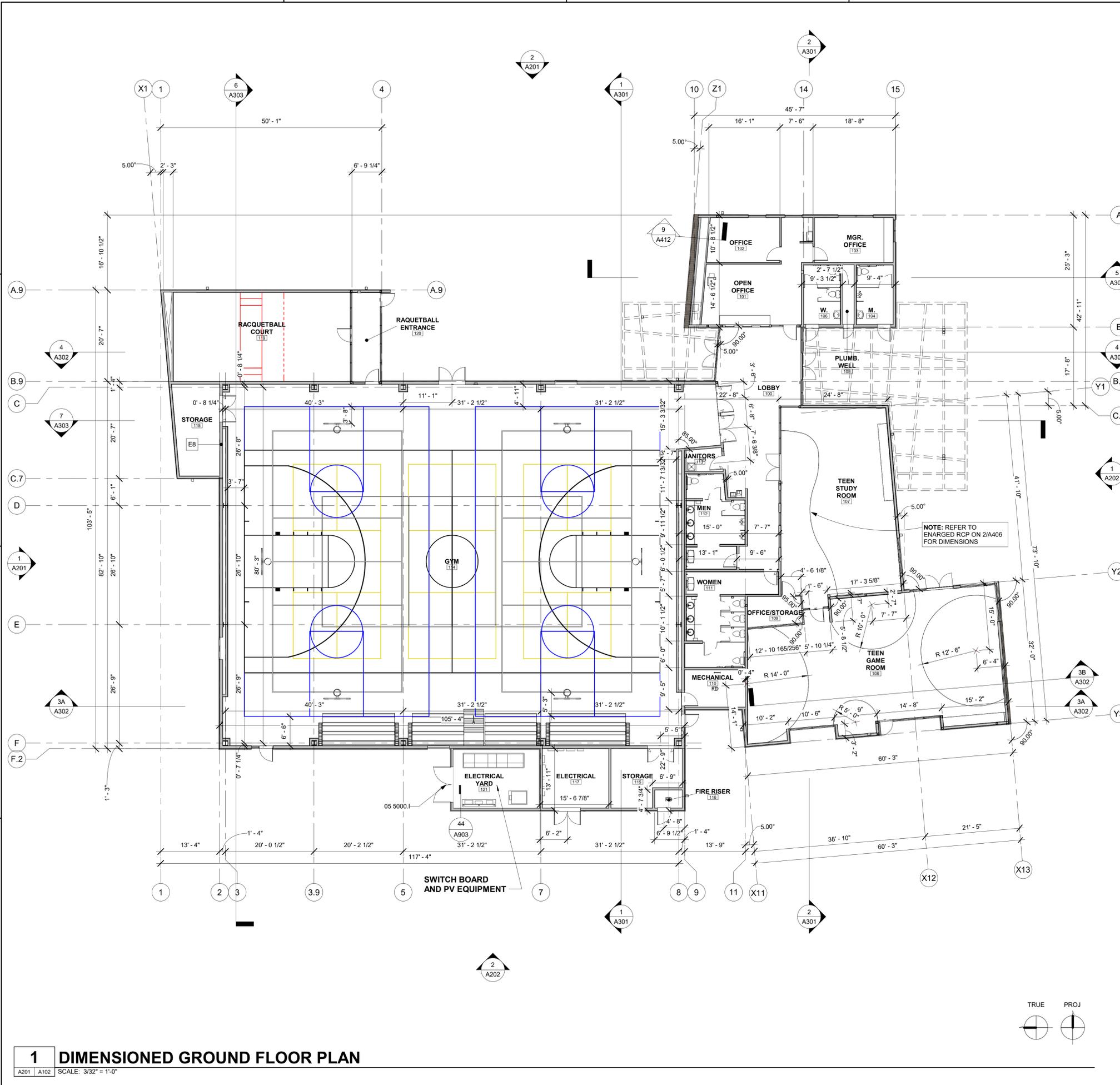
AGENCY

**FLOOR PLAN GENERAL NOTES**

1. REFER TO GENERAL NOTES SHEET G-101 FOR ADDITIONAL REQUIREMENTS.
2. REFER TO SHEET A921 FOR WALL TYPES
3. REFER TO STRUCTURAL PLANS FOR FURTHER INFORMATION.
4. REFER TO ELECTRICAL PLANS FOR FURTHER INFORMATION IF PROVIDED.
5. REFER TO MECHANICAL PLANS, DRAWINGS OR REPORTS FOR FURTHER INFORMATION.
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10. EXTERIOR DIMENSIONS ARE TO FACE OF SHEATHING UNLESS SPECIFICALLY NOTED OTHERWISE
11. PROVIDE ADEQUATE BLOCKING IN WALLS FOR CABINETS AND OTHER WALL MOUNTED ACCESSORIES INCLUDING BUT NOT LIMITED TO HANDRAILS, SHELVING AND BATHROOM FIXTURES.
12. PROVIDE FIREBLOCKING FOR WALL CAVITIES THAT EXCEED 2022 CBC HEIGHT LIMITATIONS
13. DOOR AND WINDOW DIMENSIONS ARE CENTERED AT OPENINGS
14. WHERE DOOR IS LOCATED WITHOUT DIMENSION AT THE CORNER OF A ROOM IT SHALL BE 4" FROM FACE OF FRAMING OF ADJACENT WALL TO ROUGH DOOR OPENING
15. SEE CODE ANALYSIS FOR LOCATIONS OF FIRE PARTITIONS AND FIRE BARRIERS
16. WHERE RECESSED FIXTURES OCCUR IN WALLS OR HORIZONTAL ASSEMBLIES, THE FIRE RATING OF THOSE ASSEMBLIES SHALL BE MAINTAINED
17. AT ALL PENETRATIONS AND INTERSECTIONS OF FIRE-RATED PARTITIONS, PROVIDE FIRE SEALANT AND/OR FIRE STOPPING TO MAINTAIN CONTINUITY OF PARTITION RATING

**LEGEND**

- A6 EXTERIOR WALL - 2X6 WOOD STUD W/ PLYWOOD SHEATHING, RIGID INSULATION AND 1-1/2" METAL PANEL FINISH, ONE LAYER GYPSUM WALL BOARD INTERIOR.
- A8 EXTERIOR WALL - 2X8 WOOD STUD W/ PLYWOOD SHEATHING, RIGID INSULATION AND 1-1/2" METAL PANEL FINISH, ONE LAYER GYPSUM WALL BOARD INTERIOR.
- B EXTERIOR WALL - 2X6 WOOD STUD W/ PLYWOOD SHEATHING, RIGID INSULATION AND FIBER-CEMENT BOARD ARCHITECTURAL, ONE LAYER OF GYPSUM WALL BOARD INTERIOR.
- B1 EXTERIOR WALL - 2X6 WOOD STUD W/ PLYWOOD SHEATHING, RIGID INSULATION AND FIBER-CEMENT BOARD ARCHITECTURAL, INTERIOR NO FINISH.
- B2 EXTERIOR WALL - 2X6 WOOD STUD W/ PLYWOOD SHEATHING, RIGID INSULATION AND ARCHITECTURAL FIBER-CEMENT BOARD EXTERIOR, ONE LAYER OF PLYWOOD SHEATHING AND FIBER-CEMENT PANEL INTERIOR.
- B3 EXTERIOR WALL - 2X6 WOOD STUD W/ PLYWOOD SHEATHING, RIGID INSULATION AND FIBER-CEMENT BOARD ARCHITECTURAL, ONE LAYER OF GYPSUM WALL BOARD INTERIOR.
- E INTERIOR - 2X8 WOOD STUD RACQUETBALL ONE LAYER OF RACQUET BALL WALL PANEL, ONE LAYER OF GYPSUM WALL BOARD. REFER TO FINISH PLAN FOR WALL FINISH
- E4 INTERIOR - 2X4 WOOD STUD. REFER TO FINISH PLAN FOR WALL FINISH
- E6 INTERIOR - 2X6 FRAMING WOOD STUD, ONE LAYER GYPSUM WALL BOARD BOTH SIDES. REFER TO FINISH PLAN FOR WALL FINISH
- E8 INTERIOR - 2X8 FRAMING WOOD STUD, GYPSUM WALL BOARD BOTH SIDES. REFER TO FINISH PLAN FOR WALL FINISH
- F INTERIOR - 2X4 WOOD STUD FURRED, VAPOR BARRIER AND RACQUETBALL WALL PANELS INTERIOR.
- F4 INTERIOR - 2X4 WOOD STUD FURRED. REFER TO FINISH PLAN FOR WALL FINISH
- F6 INTERIOR - 2X6 WOOD STUD FURRED. REFER TO FINISH PLAN FOR WALL FINISH
- F6P INTERIOR - 2X6 WOOD STUD FURRED WITH PADDING REFER TO FINISH PLAN FOR WALL FINISH
- G6 INTERIOR - 2X6 FRAMING WOOD PARTY WALL STAGGERED STUD. REFER TO FINISH PLAN FOR WALL FINISH
- H6 FIRE PARTITION WALL - 2X6 WOOD STUD, ONE LAYER TYPE X GYPSUM WALLBOARD BOTH SIDES
- H8 FIRE PARTITION WALL - 2X8 WOOD STUD, ONE LAYER TYPE X GYPSUM WALLBOARD BOTH SIDES
- Sx STOREFRONT ASSEMBLY REFER TO DOOR WINDOW SCHEDULE FOR MORE INFORMATION
- INDICATES DEPRESSED SLAB REFER TO A501 - FINISH PLAN AND STRUCTURAL 6/S-101 FOR MORE INFORMATION



**1 DIMENSIONED GROUND FLOOR PLAN**  
A201 | A102 SCALE: 3/32" = 1'-0"

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PLAN CHECK REVISION 2

**FOURTH ST COMMUNITY CENTER AND PARK**  
HENDERSON AVE., PORTERVILLE, CA 93257  
DIMENSIONED FLOOR PLAN

NO.	REVISION	DATE
△	PLAN CHECK REVISION 2	09/17/24
△	ADDENDUM	11/08/24
△	ADDENDUM 6	12/13/24
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PROJECT MANAGER  
TSL  
DRAWN BY  
MC, NA, PM  
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DD, KF  
DATE  
2024.12.20  
PROJECT NUMBER  
2883-01-RC22  
SHEET  
**A102**



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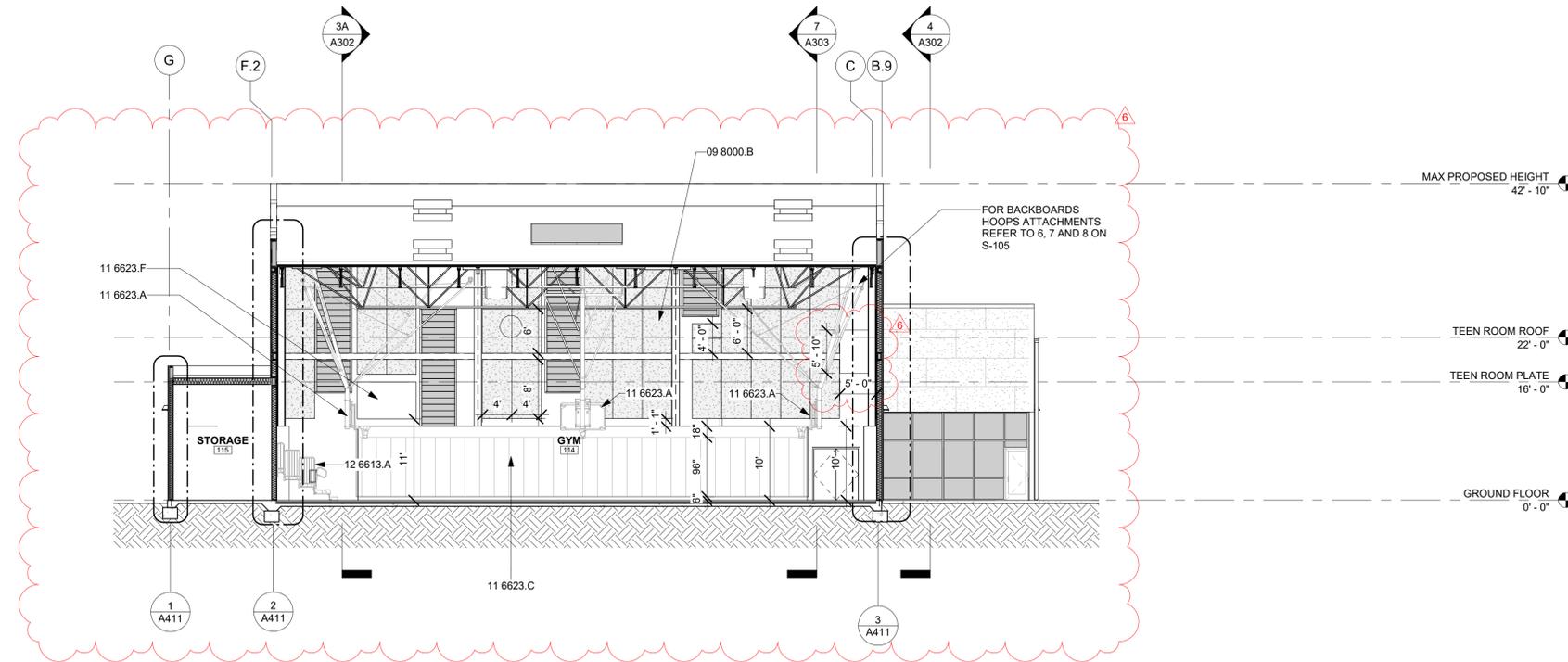
AGENCY

**SECTIONS GENERAL NOTES**

1. THE PURPOSE OF THESE DRAWINGS IS TO SHOW CONSTRUCTION MATERIALS/ASSEMBLIES. FOR SPECIFIC SIZES AND DETAILS REFER TO ARCHITECTURAL PLANS, ELEVATIONS, DETAILS, AND STRUCTURAL PLANS.
2. INSULATION: REFER TO TITLE 24 REPORT AND "INSULATION" NOTES ON SHEET FOR ADDITIONAL RATINGS, REQUIREMENTS, AND INFORMATION.
3. REFER TO FIREBLOCKING/DRAFTSTOPPING NOTES ON SHEET G-101.
4. WOOD SHALL BE PROTECTED FROM DECAY AND TERMITES AS REQUIRED PER **2022 CBC SECTION 2304.12**
5. FOUNDATION SILLS TO BE NATURALLY DURABLE OR PRESERVATIVE-TREATED WOOD. **2022 CBC SECTION 2304.12.2**
6. PENETRATIONS OF FIRE-RESISTIVE WALLS, FLOOR-CEILINGS SHALL BE PROTECTED AS REQUIRED PER **2022 CBC SECTIONS 714.3 & 714.4**.
7. WALL ASSEMBLIES TO BE PER FLOOR PLAN.
8. DOORS, WINDOWS AND STOREFRONT SYSTEMS TO BE PER APPLICABLE SCHEDULE. REFER TO FLOOR PLANS FOR IDENTIFICATION.

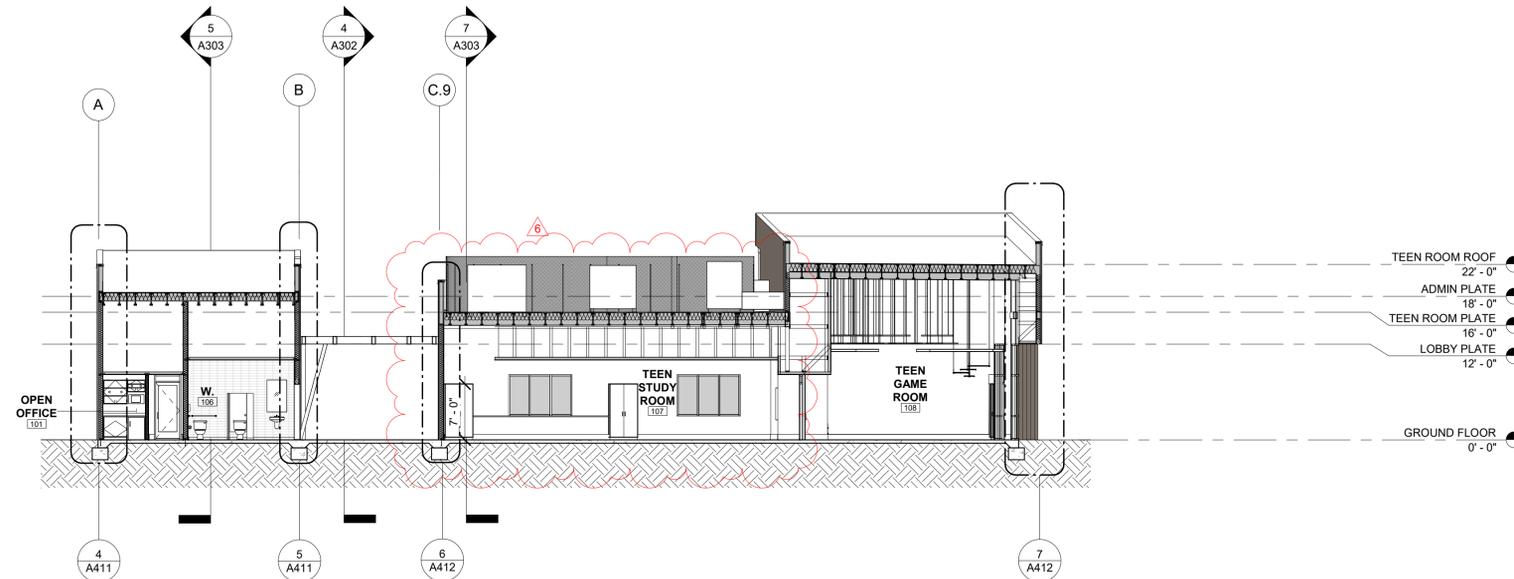
**KEYNOTES**

- 09 8000.B ACOUSTIC WALL PANEL
- 11 6623.A BASKETBALL HOOP AND BACKBOARD REFER TO DETAILS 6-8/S105
- 11 6623.C WALL MOUNTED PROTECTION PADS
- 11 6623.F ELECTRONIC SCOREBOARD REFER TO DETAIL 6/S108
- 12 6613.A TELESCOPING BLEACHERS



**1 SECTION 01**

A101 | A301 SCALE: 3/32" = 1'-0"



**2 SECTION 02**

A101 | A301 SCALE: 3/32" = 1'-0"

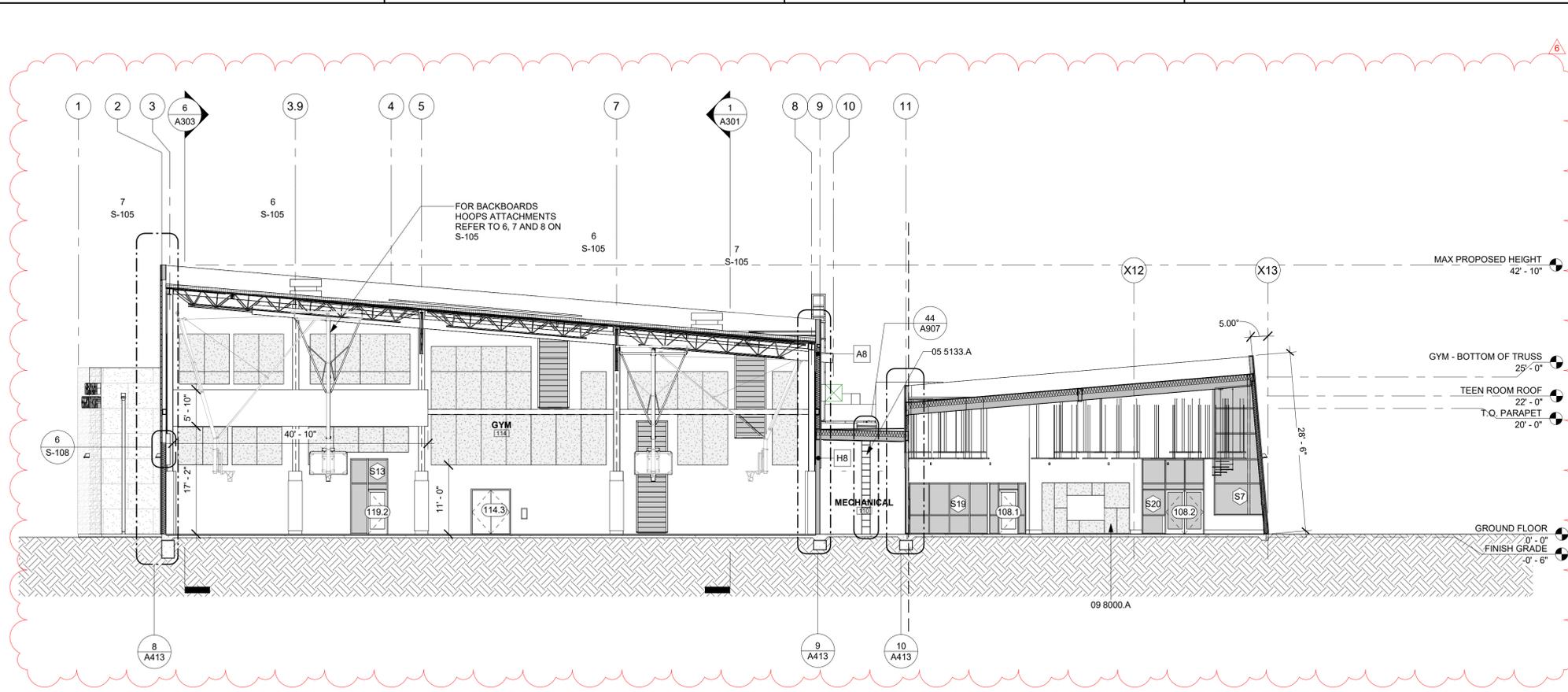
**FOURTH ST COMMUNITY CENTER AND PARK**  
HENDERSON AVE., PORTERVILLE, CA 93257  
BUILDING SECTIONS

NO.	REVISION	DATE
1	PLAN CHECK REVISION 1	05/17/24
2	PLAN CHECK REVISION 2	09/17/24
3	ADDENDUM	11/08/24
4	ADDENDUM 6	12/13/24
5		
6		

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**A301**

PLAN CHECK REVISION 2



**3A SECTION 03**  
 A101 | A302 | SCALE: 3/32" = 1'-0"

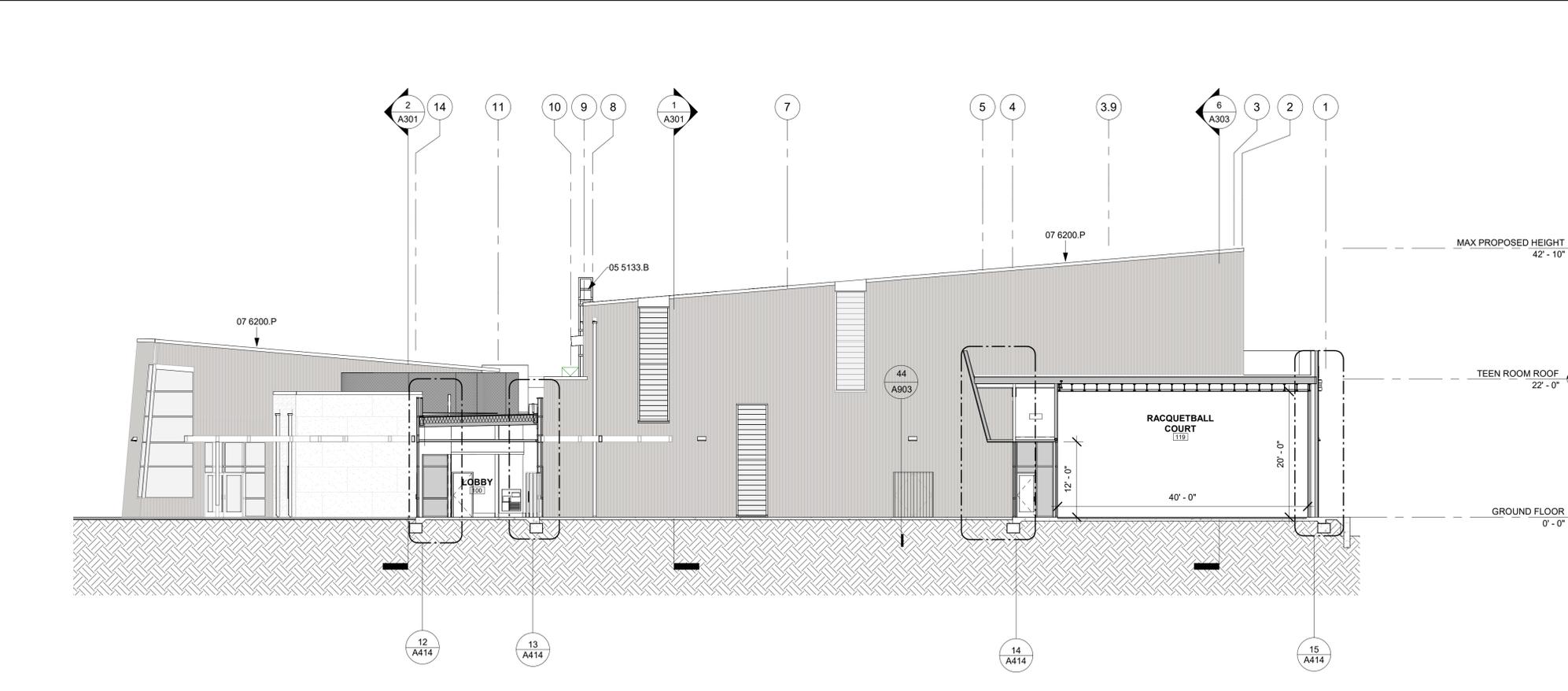
**3B SECTION 03B**  
 A2 | A302 | SCALE: 3/32" = 1'-0"

**SECTIONS GENERAL NOTES**

1. THE PURPOSE OF THESE DRAWINGS IS TO SHOW CONSTRUCTION MATERIALS/ASSEMBLIES. FOR SPECIFIC SIZES AND DETAILS REFER TO ARCHITECTURAL PLANS, ELEVATIONS, DETAILS, AND STRUCTURAL PLANS.
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7. WALL ASSEMBLIES TO BE PER FLOOR PLAN.
8. DOORS, WINDOWS AND STOREFRONT SYSTEMS TO BE PER APPLICABLE SCHEDULE. REFER TO FLOOR PLANS FOR IDENTIFICATION.

**KEYNOTES**

- 05 5133.A INTERIOR METAL LADDER. REFER TO DETAIL 44/A906
- 05 5133.B EXTERIOR METAL LADDER
- 07 6200.P BREAK METAL COPING
- 09 8000.A STRETCHED FABRIC WALL COVERING



**4 SECTION 04**  
 A101 | A302 | SCALE: 3/32" = 1'-0"

**rrm design group**  
 rrmdesign.com | (805) 543-1794  
 3765 SOUTH HIGUERA STREET, SUITE 102  
 SAN LUIS OBISPO, CA 93401

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1	PLAN CHECK REVISION 1	05/17/24
2	PLAN CHECK REVISION 2	09/17/24
6	ADDENDUM 6	12/13/24

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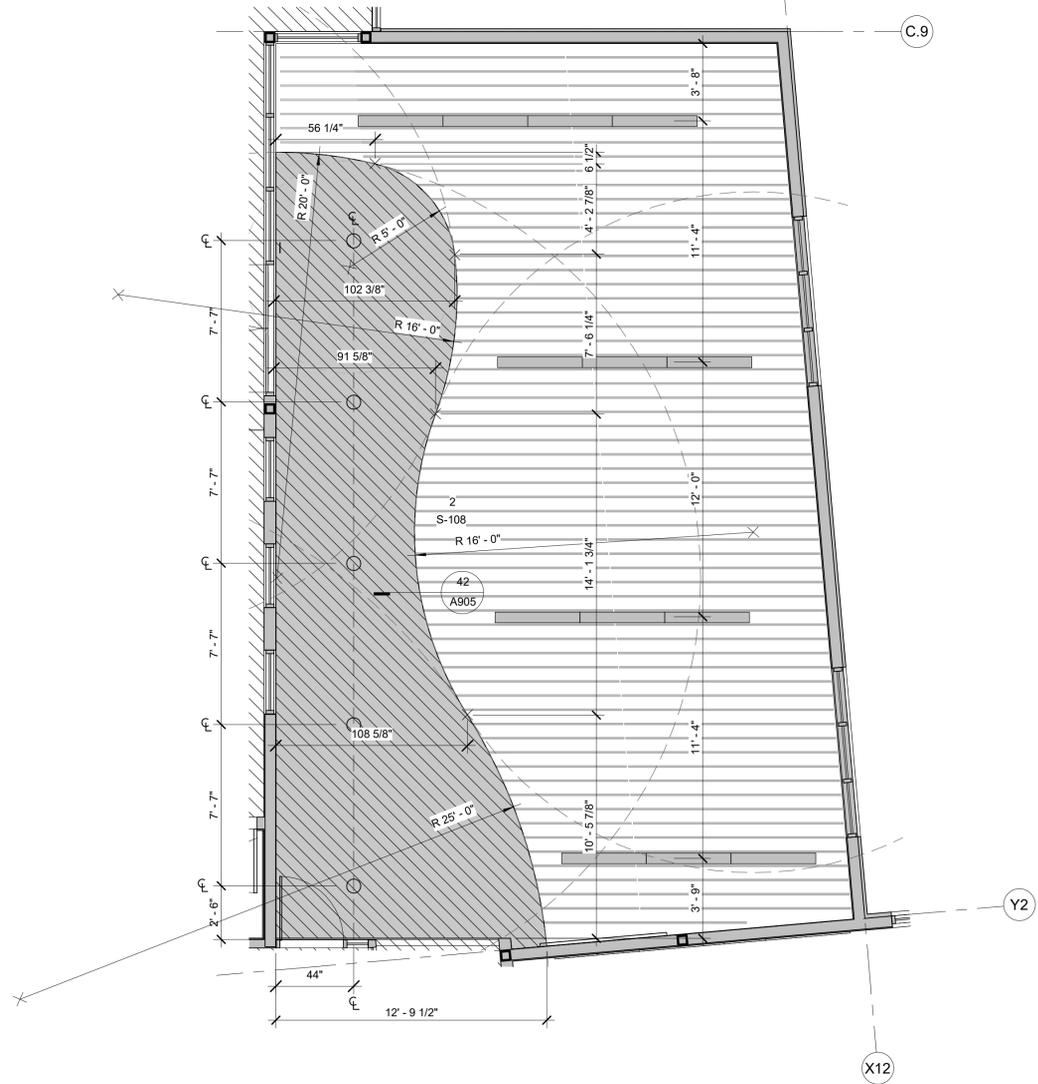
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PLAN CHECK REVISION 2

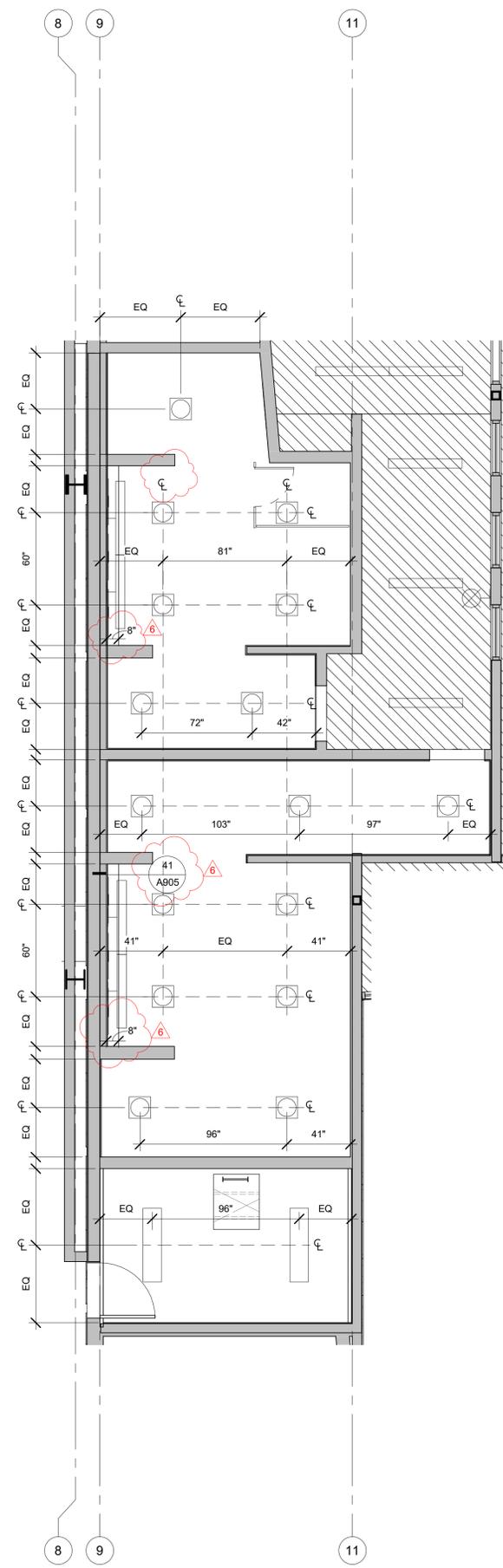


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**2 ENLARGED RCP - TEEN STUDY**  
 A111 A406 SCALE: 1/4" = 1'-0"



**1 ENLARGED RESTROOM RCP**  
 A111 A406 SCALE: 1/4" = 1'-0"



**FLOOR PLAN GENERAL NOTES**

1. REFER TO GENERAL NOTES SHEET G-101 FOR ADDITIONAL REQUIREMENTS.
2. REFER TO SHEET A921 FOR WALL TYPES
3. REFER TO STRUCTURAL PLANS FOR FURTHER INFORMATION.
4. REFER TO ELECTRICAL PLANS FOR FURTHER INFORMATION IF PROVIDED.
5. REFER TO MECHANICAL PLANS, DRAWINGS OR REPORTS FOR FURTHER INFORMATION.
6. REFER TO PLUMBING PLANS OR DRAWINGS FOR FURTHER INFORMATION IF PROVIDED.
7. ALL FURNITURE AND EQUIPMENT IS BY OWNER AND IS SHOWN FOR COORDINATION PURPOSES ONLY.
8. ALL CASEWORK SHALL BE PROVIDED BY CONTRACTOR
9. INTERIOR WALL DIMENSIONS ARE TO FACE OF FRAMING UNLESS SPECIFICALLY NOTED OTHERWISE.
10. EXTERIOR DIMENSIONS ARE TO FACE OF SHEATHING UNLESS SPECIFICALLY NOTED OTHERWISE
11. PROVIDE ADEQUATE BLOCKING IN WALLS FOR CABINETS AND OTHER WALL MOUNTED ACCESSORIES INCLUDING BUT NOT LIMITED TO HANDRAILS, SHELVING AND BATHROOM FIXTURES.
12. PROVIDE FIREBLOCKING FOR WALL CAVITIES THAT EXCEED 2022 CBC HEIGHT LIMITATIONS
13. DOOR AND WINDOW DIMENSIONS ARE CENTERED AT OPENINGS
14. WHERE DOOR IS LOCATED WITHOUT DIMENSION AT THE CORNER OF A ROOM IT SHALL BE 4" FROM FACE OF FRAMING OF ADJACENT WALL TO ROUGH DOOR OPENING
15. SEE CODE ANALYSIS FOR LOCATIONS OF FIRE PARTITIONS AND FIRE BARRIERS
16. WHERE RECESSED FIXTURES OCCUR IN WALLS OR HORIZONTAL ASSEMBLIES, THE FIRE RATING OF THOSE ASSEMBLIES SHALL BE MAINTAINED
17. AT ALL PENETRATIONS AND INTERSECTIONS OF FIRE-RATED PARTITIONS, PROVIDE FIRE SEALANT AND/OR FIRE STOPPING TO MAINTAIN CONTINUITY OF PARTITION RATING

**KEYNOTES**

**LEGEND**

- XX'-X" CEILING HEIGHT (SEE PLAN FOR ACTUAL HEIGHTS)
- INTERIOR - GYPSUM BOARD CEILING
- INTERIOR - GYPSUM BOARD SOFFIT
- INTERIOR - ACOUSTICAL TILE CEILING
- INTERIOR - ACOUSTIC BLADES
- INTERIOR - CEILING SOUND PANELS 48" X 96"
- EXTERIOR - FIBER CEMENT PANEL SOFFIT
- MECHANICAL EQUIPMENT, REFER TO MECHANICAL PLANS
- LIGHT FIXTURE, REFER TO ELECTRICAL PLANS
- ACCENT LIGHT, REFER TO ELECTRICAL PLANS
- ILLUMINATED EXIT SIGN, REFER TO ELECTRICAL PLANS



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PLAN CHECK REVISION 2

**FOURTH ST COMMUNITY CENTER AND PARK**  
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 ENLARGED PLANS - RCP

NO.	REVISION	DATE
2	PLAN CHECK REVISION 2	09/17/24
3	ADDENDUM 4	11/27/24
4	ADDENDUM 4	11/08/24
6	ADDENDUM 6	12/13/24

**PROJECT MANAGER**  
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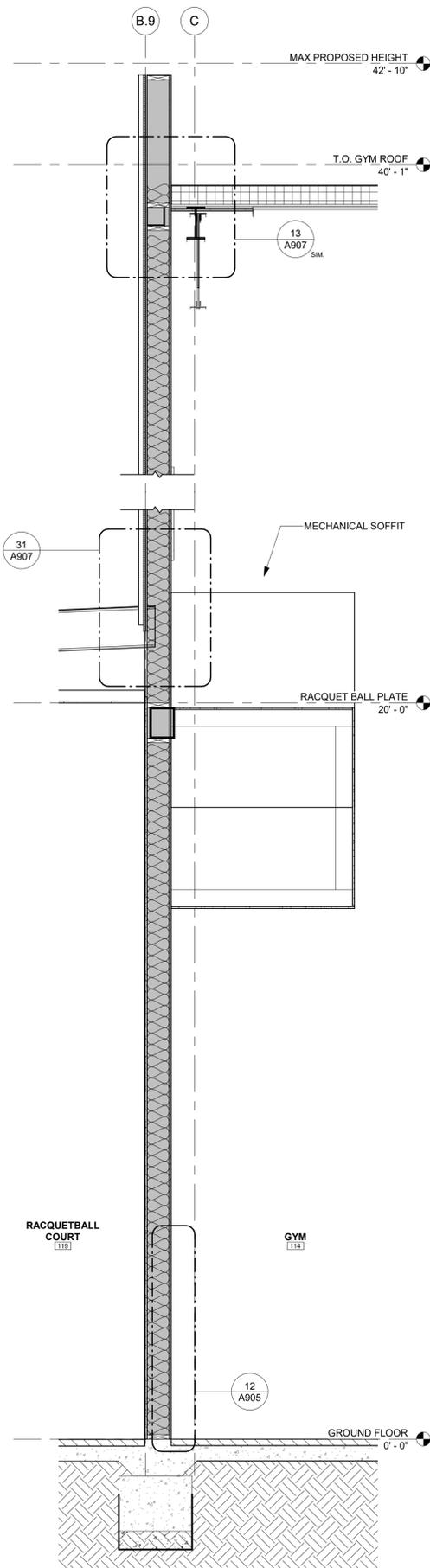
**DATE**  
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**PROJECT NUMBER**  
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**SHEET**

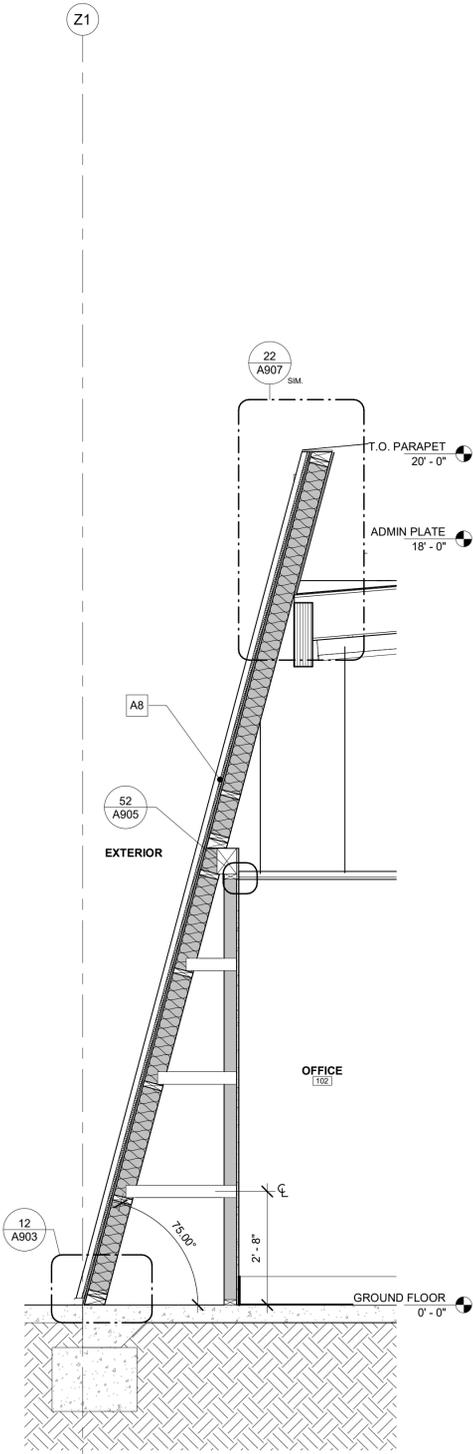
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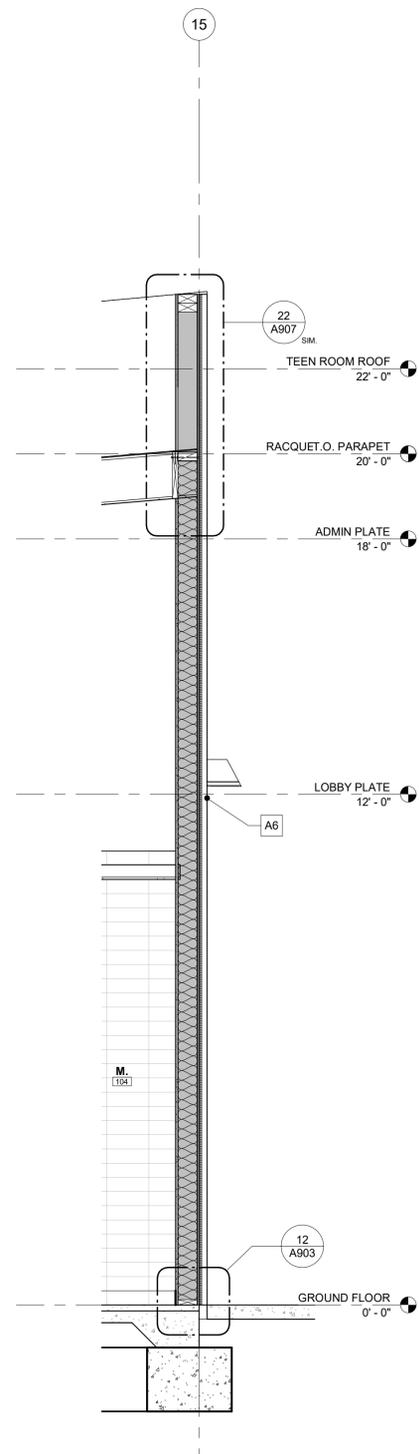
**10 WALL SECTION 10**

A303 A412 SCALE: 1/2" = 1'-0"



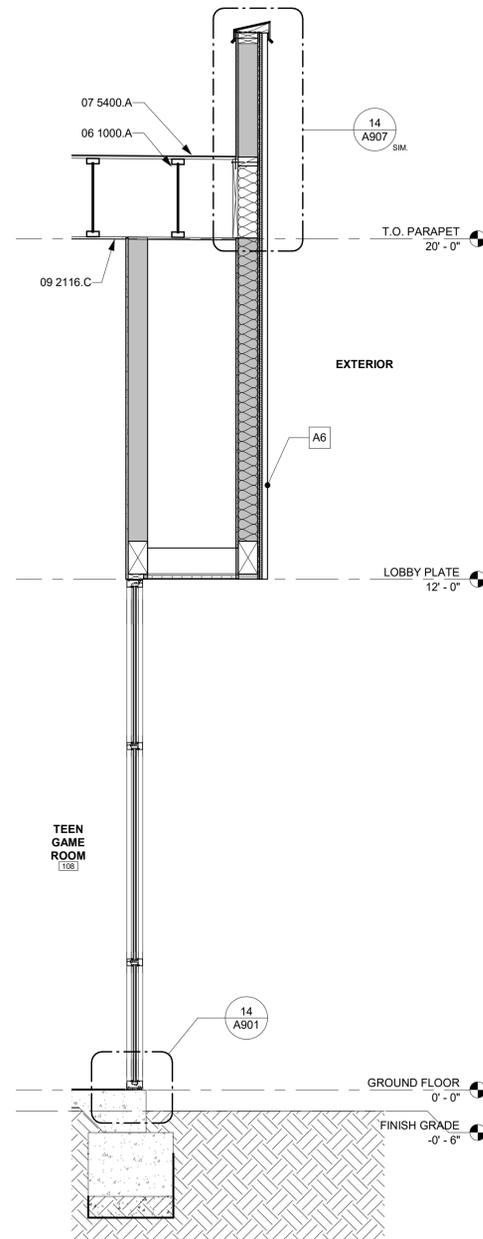
**9 WALL SECTION 9**

A101 A412 SCALE: 1/2" = 1'-0"



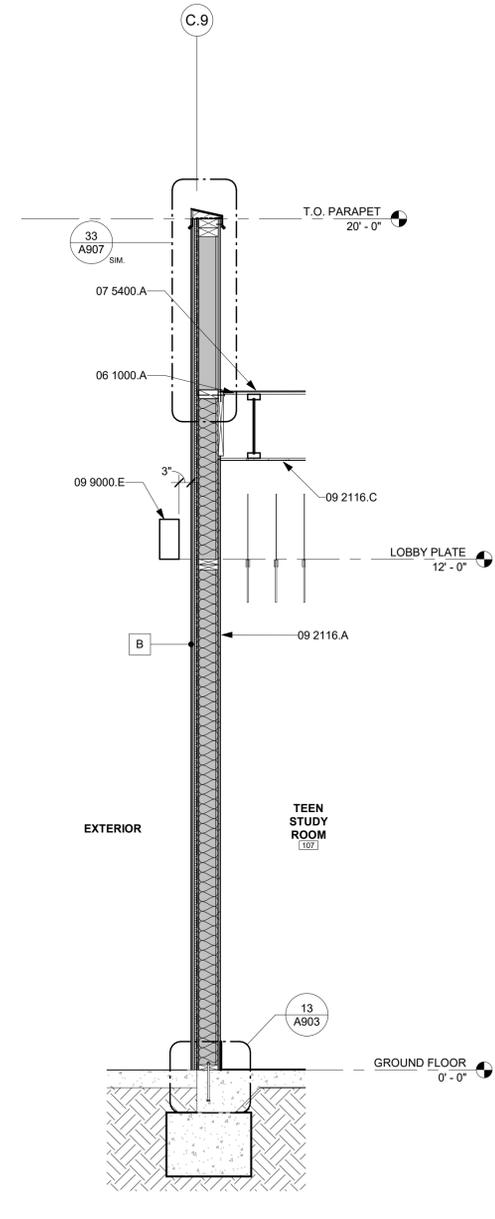
**8 WALL SECTION 8**

A303 A412 SCALE: 1/2" = 1'-0"



**7 WALL SECTION 7**

A301 A412 SCALE: 1/2" = 1'-0"



**6 WALL SECTION 6**

A301 A412 SCALE: 1/2" = 1'-0"

**KEYNOTES**

- 06 1000.A ROOF FRAMING. REFER TO STRUCTURAL.
- 06 1000.O LAMINATED VENEER LUMBER PER STRUCTURAL.
- 07 5400.A THERMOPLASTIC MEMBRANE ROOFING SYSTEM, CLASS A - SEE SPECIFICATIONS. REFER TO DETAIL 11/2A-921 FOR ROOF ASSEMBLY.
- 09 2116.A GYPSUM BOARD
- 09 2116.C GYPSUM BOARD CEILING ASSEMBLY
- 09 9000.E PAINTED STEEL TRELIS. REFER TO STRUCTURAL.



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WALL SECTIONS

NO.	REVISION	DATE

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 SHEET

**A412**

PLAN CHECK REVISION 2

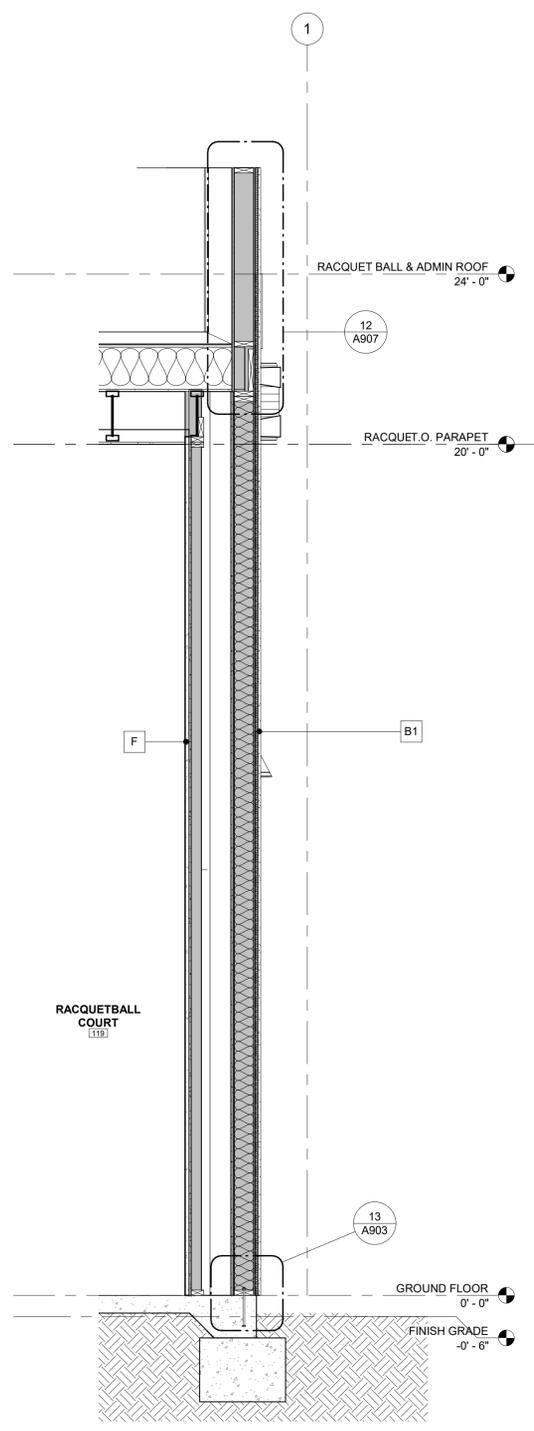


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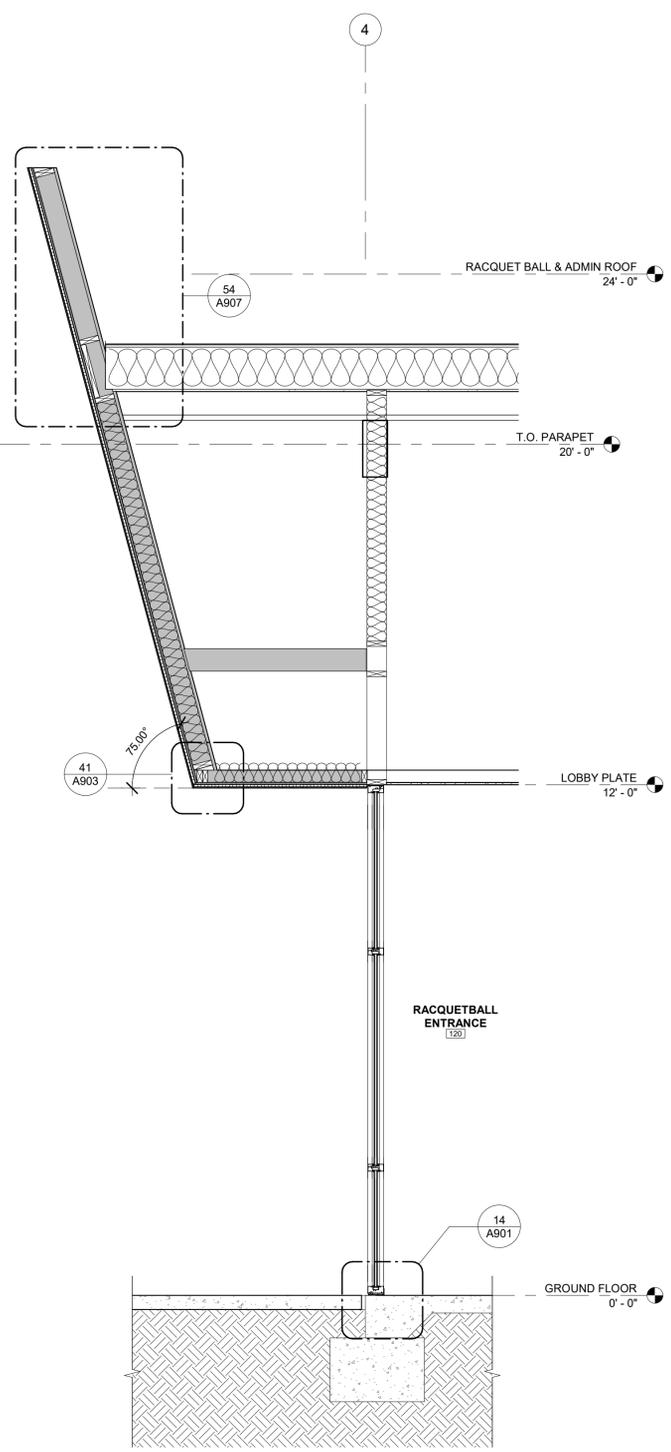
AGENCY

**KEYNOTES**

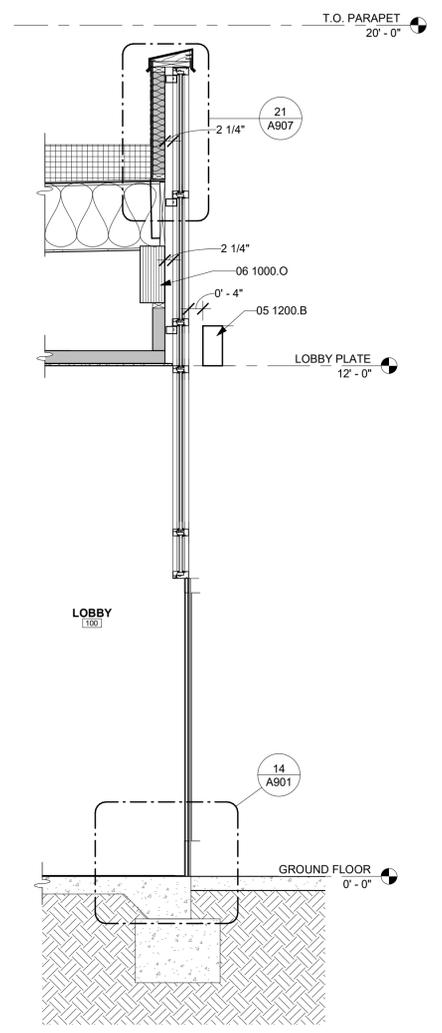
- 05 1200.B FABRICATED METAL CANOPY. REFER TO STRUCTURAL DRAWINGS
- 06 1000.O LAMINATED VENEER LUMBER PER STRUCTURAL.
- 09 9000.E PAINTED STEEL TRELLIS, REFER TO STRUCTURAL.



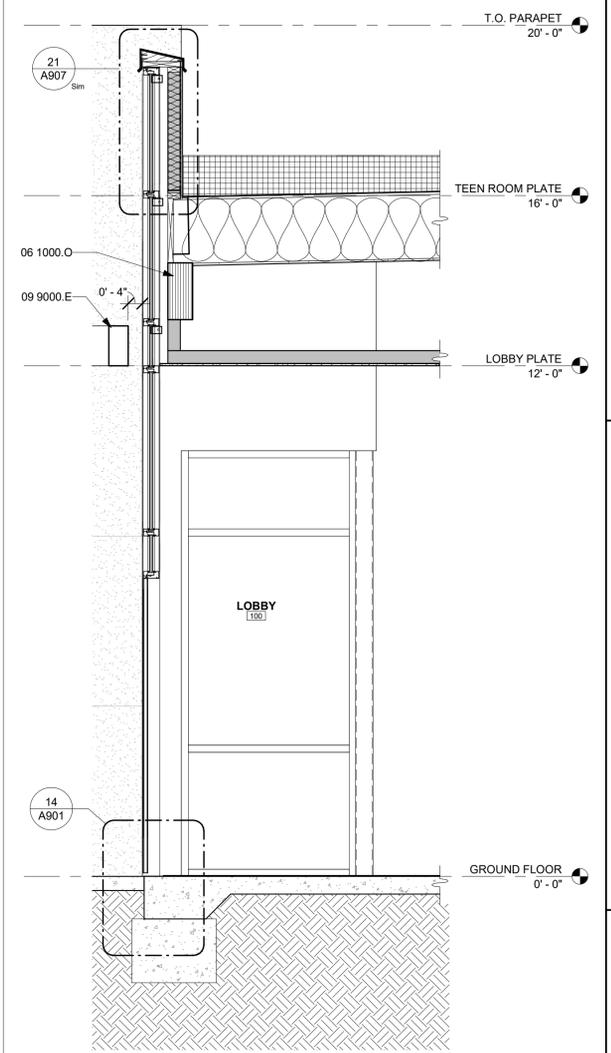
**15 WALL SECTION 15**  
SCALE: 1/2" = 1'-0"



**14 WALL SECTION 14**  
SCALE: 1/2" = 1'-0"



**13 WALL SECTION 13**  
SCALE: 1/2" = 1'-0"



**12 WALL SECTION 12**  
SCALE: 1/2" = 1'-0"

PLAN CHECK REVISION 2

**FOURTH ST COMMUNITY CENTER AND PARK**  
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**WALL SECTIONS**

NO.	REVISION	DATE
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**A414**



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**FINISH PLAN GENERAL NOTES**

1. REFER TO GENERAL NOTES SHEET G-101 FOR ADDITIONAL REQUIREMENTS.
2. REFER TO ELECTRICAL PLANS FOR FURTHER INFORMATION.
3. REFER TO PLUMBING PLANS FOR FURTHER INFORMATION.
4. REFER TO DETAILS FOR FLOOR/CEILING ASSEMBLIES AND INTERIOR FINISH DETAILS.
5. ALL HARD SURFACE FLOORING SHALL BE SLIP RESISTANT AND MEET THE ANSI A326.3 STANDARD FOR MEASURING THE DYNAMIC COEFFICIENT OF FRICTION (DCOF).
6. ALL FLOORING MATERIALS SHALL COMPLY WITH 2022 CBC SEC. 804.1.
7. ALL WALL AND CEILING FINISHES SHALL COMPLY WITH 2022 CBC TABLE 803.13 FOR MAXIMUM FLAME SPREAD AND SMOKE DENSITY.

**FINISH REQUIREMENTS**

PER 2022 CBC 803.13 INTERIOR WALL AND CEILING FINISH SHALL HAVE A FLAME SPREAD INDEX NOT GREATER THAN THAT SPECIFIED IN TABLE 803.13 FOR THE GROUP AND LOCATION DESIGNATED. REFER TO 2022 CBC SEC. 803 FOR ADDITIONAL INFORMATION.

**INTERIOR WALL AND CEILING FINISH REQUIREMENTS BY OCCUPANCY**  
(CBC 2022 TABLE 803.13)

GROUP	DEGREE OF FIRE PROTECTION: SPRINKLERED		
	INTERIOR EXIT STAIRWAYS AND RAMP AND EXIT PASSAGEWAYS	CORRIDORS AND ENCLOSURE FOR EXIT ACCESS STAIRWAYS AND RAMP	ROOMS AND ENCLOSED SPACES
A-1 & A-2	B	B	C
A-3, A-4, A-5	B	B	C
B, E, M, R-1	B	C	C
R-2	C	C	C
R-2.1	B	C	C
R-2.2	C	C	C
R-3, R-3.1	C	C	C
S	C	C	C

**CLASSIFICATIONS**

- CLASS A:
  - FLAME SPREAD INDEX = 0-25
  - SMOKE DEVELOPED INDEX = 0-450
- CLASS B:
  - FLAME SPREAD INDEX = 26-75
  - SMOKE DEVELOPED INDEX = 450-850
- CLASS C:
  - FLAME SPREAD INDEX = 76-200
  - SMOKE DEVELOPED INDEX = 0-450

AGENCY

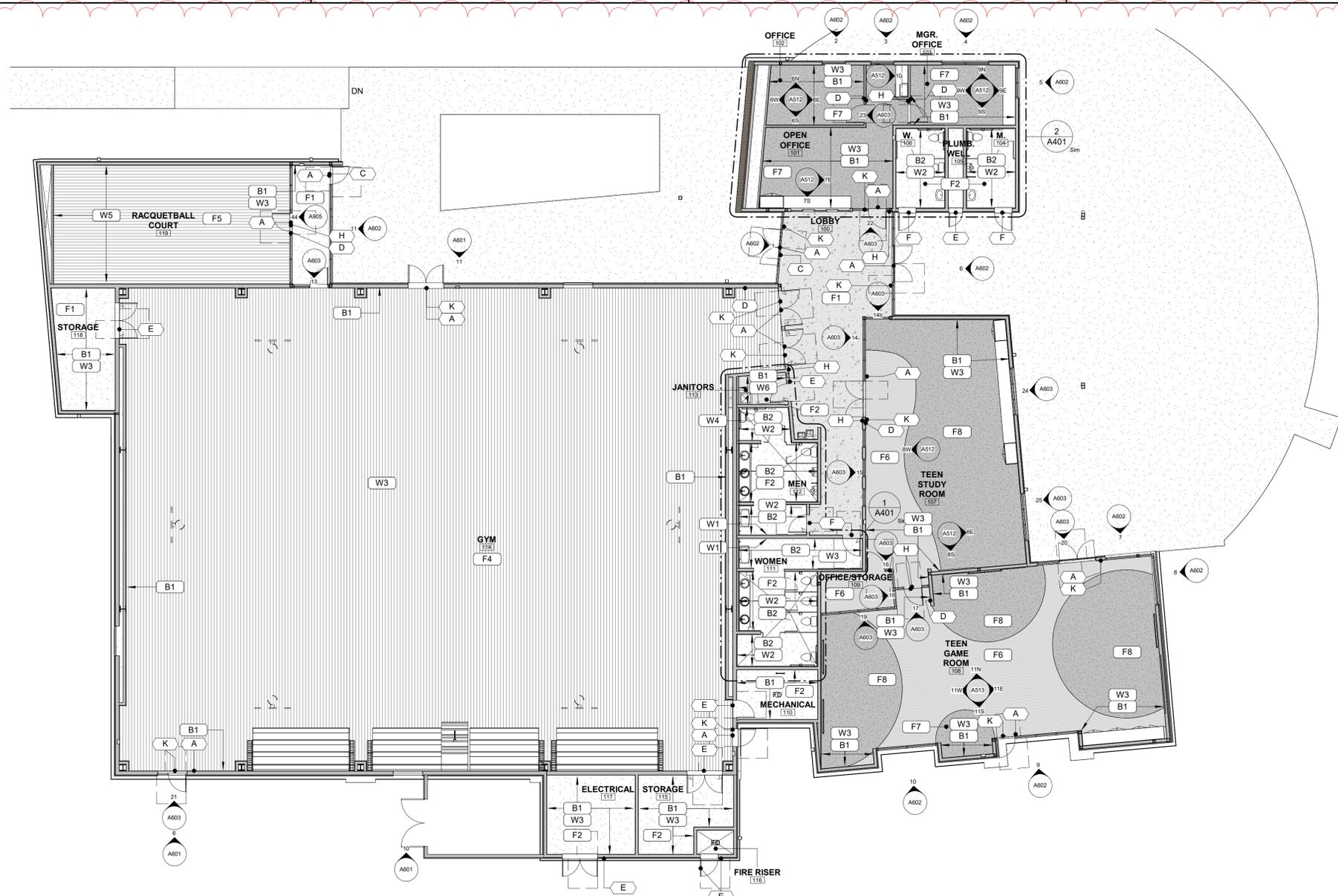
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FINISH PLANS

NO.	REVISION	DATE
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4	ADDENDUM 6	12/13/24

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A501



**1 FINISH PLAN**  
A201 | A501 SCALE: 3/32" = 1'-0"

**ROOM FINISH SCHEDULE**

INTERIOR FINISH SCHEDULE						
Number	SPEC	Description	Location	Size	Color	Notes
<b>BASE</b>						
B1	09 6513.A	VINYL BASE	TEEN STUDY, TEEN GAME, OFFICES, LOBBY, MECHANICAL, ELECTRICAL ROOM, STORAGE, JANITORS	6" HIGH	BLACK MATTE	
B2	09 3000.B	ALLUMINUM COVE BASE TRIM	RESTROOMS	3/8" HIGH	ANODIZED ALUMINUM	BASIS OF DESIGN: SCHLUTER
<b>FLOORING</b>						
F1	03 3000	CONCRETE	SEE PLANS			
F2	03 3000.J	POLISHED CONCRETE	RESTROOMS, LOBBY, RACQUETBALL ENTRY			
F4	09 6466.C	WOOD FLOORING	GYM		MAPLE	
F5	13 2830	WOOD FLOORING	RACQUETBALL COURT		MAPLE	
F6	09 6519.A	LUXURY VINYL TILE	TEEN GAME ROOM, TEEN STUDY ROOM	25CM X 1M	GRAY	BASIS OF DESIGN: INTERFACE // SHANTUNG LVT, SILK COMPLEX, COLORI A02710 SILVER TREE
F7	09 6800	CARPET TILE	OFFICES	25CM X 1M	DARK GREY, ORANGE HIGHLIGHTS	BASIS OF DESIGN: INTERFACE // UPLOAD, STREAMING COLLECTION, COLOR 106292 LIGHT COPPER
F8	09 6800	CARPET TILE	TEEN GAME ROOM, TEEN STUDY ROOM	25CM X 1M	DARK GREY, GREEN HIGHLIGHTS	BASIS OF DESIGN: INTERFACE // UPLOAD, STREAMING COLLECTION, COLOR 106291 LIGHT GREEN
<b>WALLS</b>						
W1	09 3000.A	RESTROOM TILE	RESTROOMS	4" X 12"	ARCTIC SEMI-GLOSS	BASIS OF DESIGN: DAL TILE
W2	09 3000.A	RESTROOM TILE	RESTROOMS	4" X 12"	ARCTIC WHITE, DESERT GREY, MATTE CHALKBOARD	BASIS OF DESIGN: DAL TILE // BLEND: 50% ARCTIC WHITE SEMI-GLOSS, 25% DESERT GRAY SEMI-GLOSS, 25% MATTE CHALKBOARD, VARIED BLEND, AT CONTRACTOR'S DISCRETION.
W3	09 2116.A	GYPSUM WALL BOARD, PAINT TO FINISH	LOBBY, GYM, STORAGE, MECHANICAL, ELECTRICAL, OFFICE, TEEN GAME ROOM, TEEN STUDY	N/A		IMPACT RESISTANT GYP UP TO 8" AT ALL LOCATIONS EXCEPT OFFICE AND RESTROOMS
W4	09 3000.G	WATER RESISTANT GYPSUM WALL BOARD	RESTROOMS	N/A		
W5	13 0032.C	T&G PANEL	RACQUETBALL COURT	N/A	N/A, PREFINISHED	
W6	06 8213.A	FRP	JANITOR	4' X 8'	WHITE	

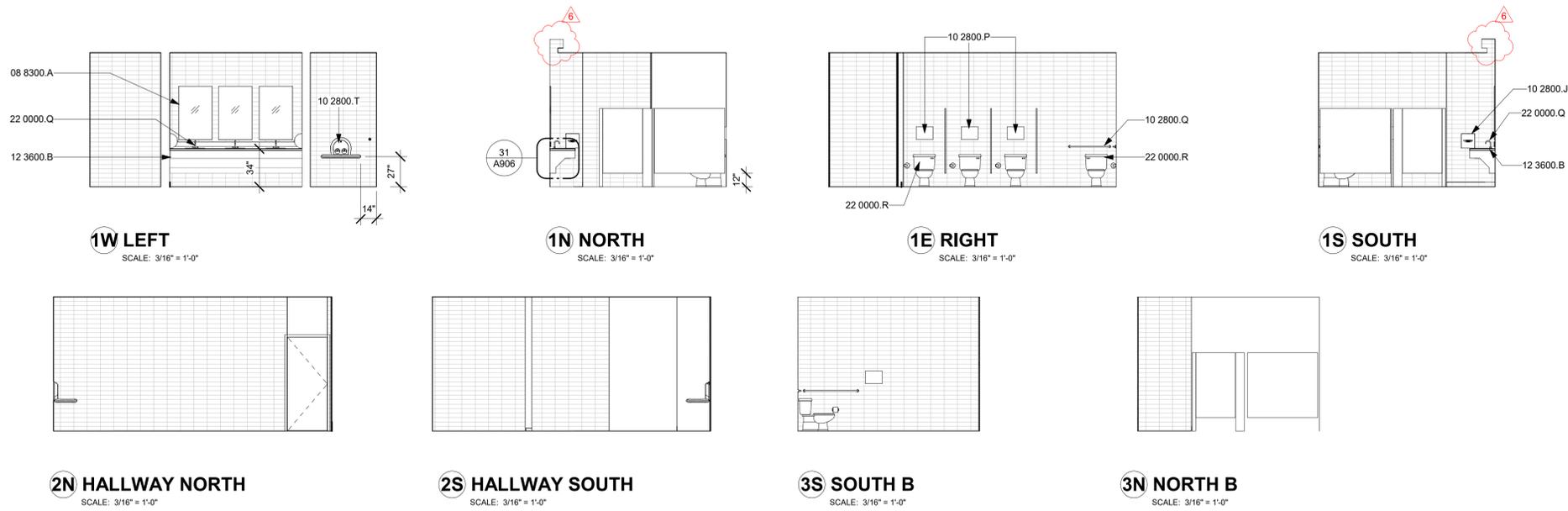
**SIGNAGE LEGEND**

- ?** SIGNAGE TAG. REFER TO ACCESSIBILITY DETAILS FOR ADDITIONAL INFORMATION.
- A** **ILLUMINATED EXIT** - "EXIT" SIGN TO BE INSTALLED PER 2022 CBC.
- B** **DIRECTIONAL SIGN** - INDICATING STAIR ACCESS AND ELEVATOR DIRECTION. SIGN TO BE INSTALLED PER 2022 CBC. REFER TO DETAIL 13/A-941
- C** **DOOR ACCESS** - THIS DOOR TO REMAIN UNLOCKED DURING BUSINESS HOURS SHALL BE PLACED ON OR ADJACENT TO THE FRONT EXIT DOORS. THE SIGN SHALL BE IN LETTERS NOT LESS THAN ONE INCH HIGH ON A CONTRASTING BACKGROUND.
- D** **OCCUPANT LOAD** - ROOM OCCUPANCY LOAD SHALL BE POSTED IN A CONSPICUOUS PLACE NEAR THE MAIN EXIT FROM THE ROOM(S). POSTING SHALL BE BY MEANS OF AN APPROVED DURABLE SIGN HAVING A CONTRASTING COLOR FROM THE BACKGROUND TO WHICH IT IS ATTACHED.
- E** **SERVICE ROOM NAME SIGN** - SIGN SHALL BE POSTED ON THE OUTSIDE OF THE DOOR SO IT IS VISIBLE AND IN CONTRASTING COLOR. (I.E. "FIRE RISER", "ELECTRICAL", "STORAGE")
- F** **RESTROOM SIGN** - SIGN TO BE INSTALLED PER 2022 CBC. REFER TO ACCESSIBILITY DETAIL 13/A-944
- G** **ROOM NUMBER** - SIGN TO BE INSTALLED PER 2022 CBC. REFER TO DETAIL 14/A-941
- H** **ROOM NAME** - SIGN TO BE INSTALLED PER 2022 CBC. REFER TO DETAIL 14/A-941
- K** **TACTILE EXIT** - SIGN TO BE PROVIDED AT GRADE-LEVEL EXTERIOR EXIT SIGNS IN CASES WHERE THE EXIT OR PATH OF EGRESS TRAVEL IS NOT IMMEDIATELY VISIBLE. "EXIT", "EXIT STAIR DOWN", "EXIT ROUTE" OR "TO EXIT" WHERE APPLIES, COMPLIANT WITH 2019 CBC 1013.4

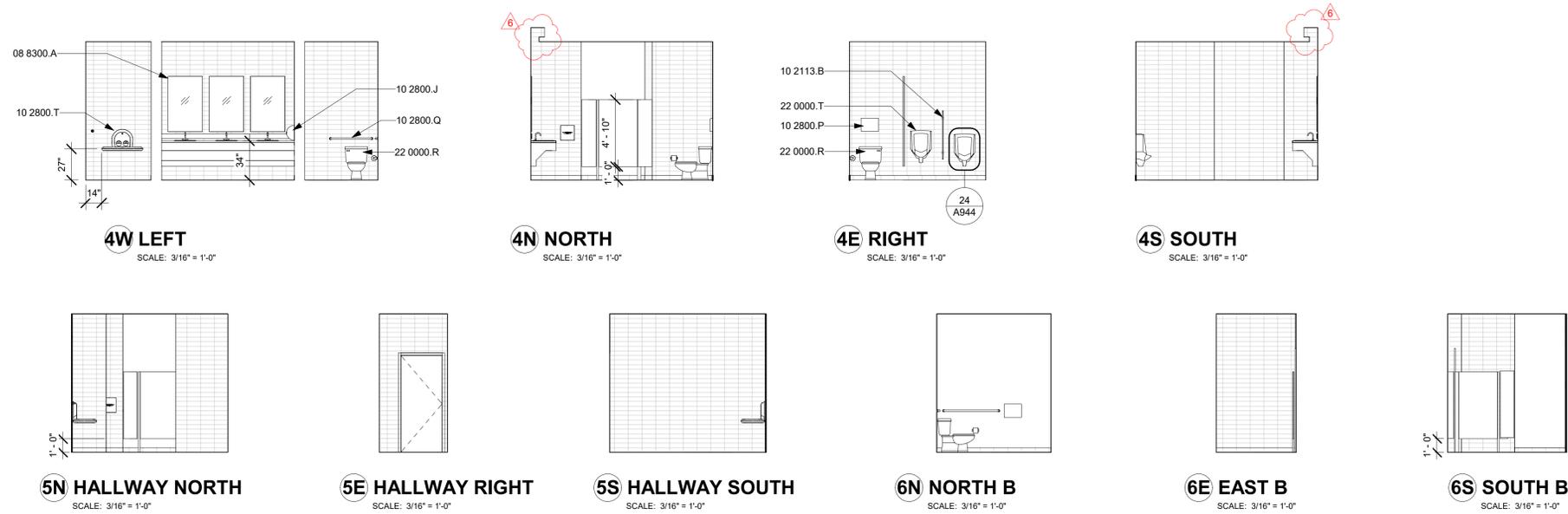
**LEGEND**

- F1 POLISHED CONCRETE FINISH
- F2 SEALED CONCRETE FINISH
- F4 RESILIENT ATHLETIC FLOORING, MAPLE
- F5 HARDWOOD FLOORING, MAPLE
- F6 LUXURY VINYL TILE 09 6519
- F7 CARPET TILE 09 6800
- W1 BATHROOM WALL TILE, DAL TILE ARCTIC WHITE SEMI-GLOSS 8" X 4"
- W2 BATHROOM WALL TILE // DAL TILE: 50% ARCTIC WHITE SEMI-GLOSS, 25% DESERT GRAY SEMI-GLOSS, 25% MATTE CHALKBOARD, VARIED BLEND, AT CONTRACTOR'S DISCRETION.

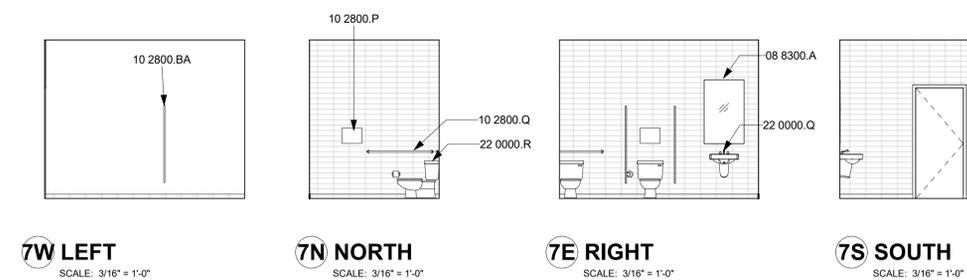
## INTERIOR WOMENS RESTROOM



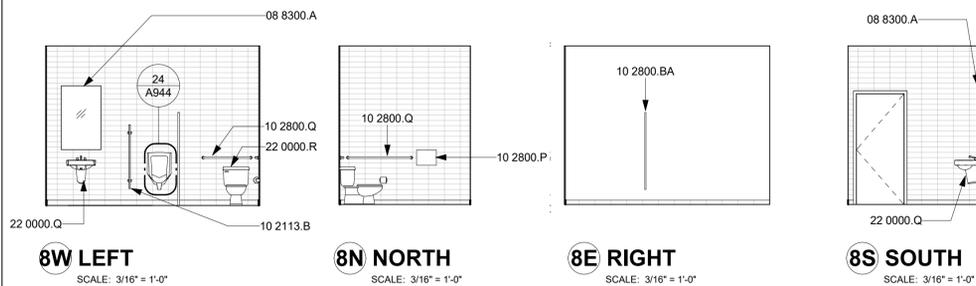
## INTERIOR MENS RESTROOM



## EXTERIOR WOMENS RESTROOM



## EXTERIOR MENS RESTROOM



## INT. ELEVS. GENERAL NOTES

1. REFER TO GENERAL NOTES SHEET G-101 FOR ADDITIONAL REQUIREMENTS.
2. REFER TO ELECTRICAL PLANS FOR FURTHER INFORMATION ON ELECTRICAL EQUIPMENT.
3. REFER TO RCP'S FOR SOFFIT DIMENSIONS AND FURTHER INFORMATION.
4. PROVIDE BLOCKING FOR ALL WALLS WHERE WALL HUNG EQUIPMENT AND FIXTURES OCCUR.
5. ALL DIMENSIONS SHOWN IN A ROOM TO BE CONSIDERED TYPICAL FOR EACH ELEVATION OF THE ROOM, UNLESS NOTED OTHERWISE.
6. VERIFY MOUNTING HEIGHTS OF ACCESSORIES AND PLUMBING FIXTURES MEET ACCESSIBILITY REQUIREMENTS WHERE APPLICABLE.
7. ALL WALL AND CEILING FINISHES SHALL COMPLY WITH 2022 CBC TABLE 803.13 FOR MAXIMUM FLAME SPREAD AND SMOKE DENSITY.

## KEYNOTES

- 08 8300.A WALL-MOUNTED MIRROR.
- 10 2113.B URINAL SCREEN
- 10 2800.BA TOILET PARTITION
- 10 2800.J SURFACE MOUNTED ELECTRIC HAND DRYER
- 10 2800.P SEAT COVER DISPENSER. SEE DETAIL 11/A-944 FOR MOUNTING HEIGHT
- 10 2800.Q GRAB BAR. REFER TO DETAIL 14/A944
- 10 2800.T DIAPER CHANGING STATION REFER TO 32 AND 34 ON A941
- 12 3600.B SOLID SURFACE COUNTERTOP
- 22 0000.Q SINK OR LAVATORY. REFER TO PLUMBING.
- 22 0000.R TOILET. REFER TO PLUMBING.
- 22 0000.T URINAL. REFER TO PLUMBING.

## LEGEND

- F1 POLISHED CONCRETE FINISH
- F2 SEALED CONCRETE FINISH
- F4 RESILIENT ATHLETIC FLOORING, MAPLE
- F5 HARDWOOD FLOORING, MAPLE
- F6 LUXURY VINYL TILE 09 6519
- F7 CARPET TILE 09 6800
- W1 BATHROOM WALL TILE, DAL TILE ARCTIC WHITE SEMI-GLOSS 8" X 4"
- W2 BATHROOM WALL TILE // DAL TILE: 50% ARCTIC WHITE SEMI-GLOSS, 25% DESERT GRAY SEMI-GLOSS, 25% MATTE CHALKBOARD, VARIED BLEND, AT CONTRACTOR'S DISCRETION.



CONSULTANT

AGENCY

**FOURTH ST COMMUNITY CENTER AND PARK**  
 HENDERSON AVE., PORTERVILLE, CA 93257  
 INTERIOR ELEVATIONS

NO.	REVISION	DATE
△	PLAN CHECK REVISION 1	05/17/24
△	PLAN CHECK REVISION 2	09/17/24
△	ADDENDUM 6	12/13/24
△		
△		

**PROJECT MANAGER**  
 TSL  
**DRAWN BY**  
 MC, NA, PM  
**CHECKED BY**  
 DD, KF  
**DATE**  
 2024.12.20  
**PROJECT NUMBER**  
 2883-01-RC22  
**SHEET**

A511

PLAN CHECK REVISION 2



CONSULTANT

AGENCY

**INT. ELEVS. GENERAL NOTES**

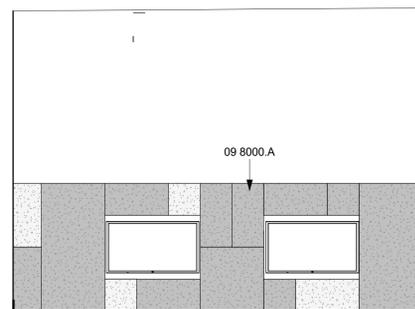
1. REFER TO GENERAL NOTES SHEET G-101 FOR ADDITIONAL REQUIREMENTS.
2. REFER TO ELECTRICAL PLANS FOR FURTHER INFORMATION ON ELECTRICAL EQUIPMENT.
3. REFER TO RCP'S FOR SOFFIT DIMENSIONS AND FURTHER INFORMATION.
4. PROVIDE BLOCKING FOR ALL WALLS WHERE WALL HUNG EQUIPMENT AND FIXTURES OCCUR.
5. ALL DIMENSIONS SHOWN IN A ROOM TO BE CONSIDERED TYPICAL FOR EACH ELEVATION OF THE ROOM, UNLESS NOTED OTHERWISE.
6. VERIFY MOUNTING HEIGHTS OF ACCESSORIES AND PLUMBING FIXTURES MEET ACCESSIBILITY REQUIREMENTS WHERE APPLICABLE.
7. ALL WALL AND CEILING FINISHES SHALL COMPLY WITH **2022 CBC TABLE 803.13** FOR MAXIMUM FLAME SPREAD AND SMOKE DENSITY.

**KEYNOTES**

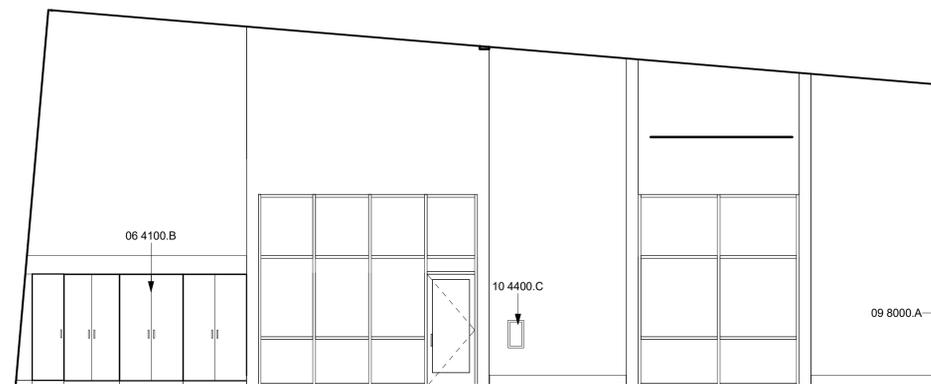
- 06 1000.E PROVIDE BLOCKING FOR OWNER PROVIDED WALL-MOUNTED TV BRACKET. COORDINATE LOCATION W/OWNER.
- 06 4100.B FULL HT. CAB/W ADJ. SHELVING AND LOCKING DOORS.
- 09 6513.A VINYL BASE.
- 09 8000.A STRETCHED FABRIC WALL COVERING
- 10 4400.C RECESSED FIRE EXTINGUISHER CABINET WITH EXTINGUISHER, 2A:10B:C RATING PER DETAIL 41/A-941

**LEGEND**

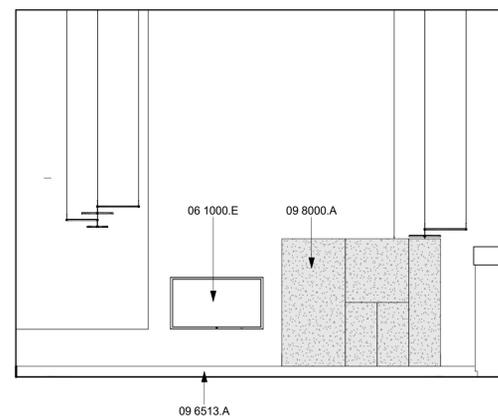
- F1 POLISHED CONCRETE FINISH
- F2 SEALED CONCRETE FINISH
- F4 RESILIENT ATHLETIC FLOORING, MAPLE
- F5 HARDWOOD FLOORING, MAPLE
- F6 LUXURY VINYL TILE 09 6519
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- W1 BATHROOM WALL TILE, DAL TILE ARCTIC WHITE SEMI-GLOSS 8" X 4"
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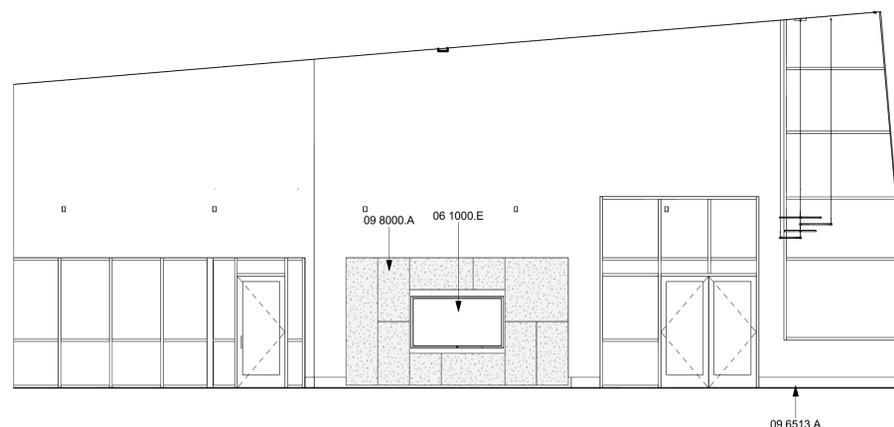
**11W TEEN GAME ROOM LEFT**  
SCALE: 3/16" = 1'-0"



**11S TEEN GAME ROOM SOUTH ELEVATION**  
SCALE: 3/16" = 1'-0"



**11E TEEN GAME ROOM RIGHT**  
SCALE: 3/16" = 1'-0"

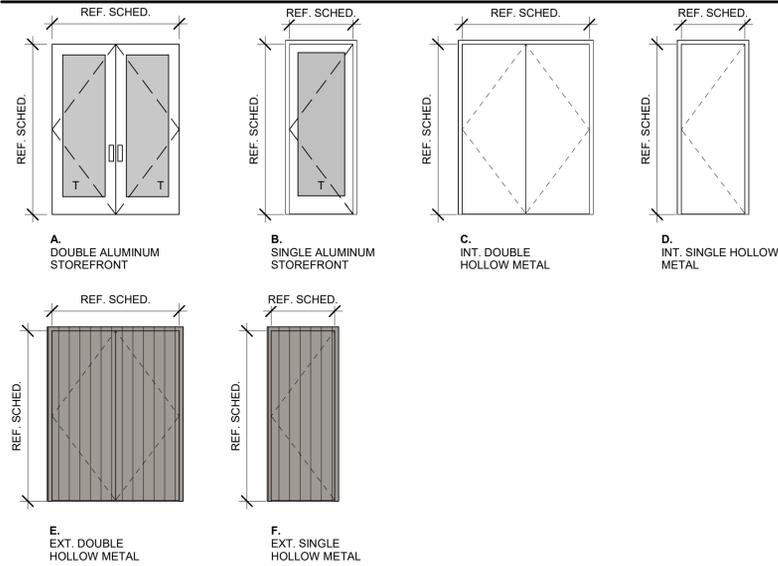


**11N TEEN GAME ROOM NORTH**  
SCALE: 3/16" = 1'-0"

NO.	REVISION	DATE
△	PLAN CHECK REVISION 1	05/17/24
△		
△		
△		
△		
△		

PROJECT MANAGER	
TSL	
DRAWN BY	CHECKED BY
MC, NA, PM	DD, KF
DATE	
2024.12.20	
PROJECT NUMBER	
2883-01-RC22	
SHEET	

## DOOR TYPES LEGEND



## DOOR SCHEDULE

NO.	TYPE	DOOR				FRAME	FIRE RATING	DETAIL			HARDWARE GROUP	REMARKS
		WIDTH	HEIGHT	THICKNESS	MATERIAL			HEAD	JAMB	SILL		
100.1	A	6'-0"	7'-0"	0'-1 3/4"	ALUM	ALUM		51/A901	51/A901	51/A901	01	1,2,9,10
100.3	A	6'-0"	6'-11"	0'-1 3/4"	ALUM	ALUM		51/A901	51/A901	51/A901	02	2,10
101	B	3'-0"	7'-0"	0'-1 3/4"	ALUM	ALUM		51/A901	51/A901	51/A901	03	1,2,9,11
102	B	3'-0"	7'-0"	0'-1 3/4"	ALUM	ALUM		51/A901	51/A901	51/A901	04	11
103	B	3'-0"	7'-0"	0'-1 3/4"	ALUM	ALUM		51/A901	51/A901	51/A901	04	11
104	D	3'-0"	7'-0"	0'-1 3/4"	HM	METAL		31/A901	31/A901	31/A901	05	1,2,10
105	D	2'-4"	7'-0"	0'-1 3/4"	HM	METAL		31/A901	31/A901	31/A901	06	11
106	D	3'-0"	7'-0"	0'-1 3/4"	HM	METAL		31/A901	31/A901	31/A901	07	1,2,10
107	A	6'-0"	7'-0"	0'-1 3/4"	ALUM	ALUM		51/A901	51/A901	51/A901	08	1,2,10
108.1	B	3'-0"	7'-0"	0'-1 3/4"	ALUM	ALUM		51/A901	51/A901	51/A901	09	11
108.2	A	6'-0"	7'-0"	0'-1 3/4"	ALUM	ALUM		51/A901	51/A901	51/A901	02	1,2,10
108.3	B	3'-0"	7'-0"	0'-1 3/4"	ALUM	ALUM		51/A901	51/A901	51/A901	10	1,2,10
109	B	3'-0"	7'-0"	0'-1 3/4"	ALUM	ALUM		51/A901	51/A901	51/A901	04	11
110.1	F	3'-0"	7'-0"	0'-1 3/4"	HM	METAL	45 MIN.	31/A901	31/A901	34/A901	11	4,11
110.7	E	6'-0"	7'-0"	0'-1 3/4"	HM	METAL		34/A901	34/A901	34/A901	12	2
111	F	3'-0"	7'-0"	0'-1 3/4"	HM	METAL		31/A901	31/A901	34/A901	13	10
112	F	3'-0"	7'-0"	0'-1 3/4"	HM	METAL		31/A901	31/A901	34/A901	13	10,12
113	F	3'-0"	7'-0"	0'-1 3/4"	HM	METAL		31/A901	31/A901	34/A901	14	11
114.1	C	6'-0"	7'-0"	0'-1 3/4"	HM	METAL	45 MIN.	31/A901	31/A901	31/A901	15	4
114.2	C	6'-0"	7'-0"	0'-1 3/4"	HM	METAL	45 MIN.	31/A901	31/A901	31/A901	15	4
114.3	E	6'-0"	7'-0"	0'-1 3/4"	HM	METAL		34/A901	34/A901	34/A901	16	1,2
114.4	B	3'-0"	7'-0"	0'-1 3/4"	ALUM	ALUM		51/A901	51/A901	51/A901	10	1,2,10
114.5	D	3'-0"	7'-0"	0'-1 3/4"	HM	METAL		31/A901	31/A901	31/A901	17	1,2
115	C	6'-0"	7'-0"	0'-1 3/4"	HM	METAL		31/A901	31/A901	31/A901	18	11
116	D	3'-0"	7'-0"	0'-1 3/4"	HM	METAL		31/A901	31/A901	31/A901	06	11
117	C	6'-0"	7'-0"	0'-1 3/4"	HM	METAL		31/A901	31/A901	31/A901	19	11
119.1	B	3'-0"	7'-0"	0'-1 3/4"	ALUM	ALUM		51/A901	51/A901	51/A901	10	1,2,10
119.2	B	3'-0"	7'-0"	0'-1 3/4"	ALUM	ALUM		51/A901	51/A901	51/A901	20	10

## DOOR GENERAL NOTES

- REFER TO GENERAL NOTES ON SHEET G-101 FOR ADDITIONAL REQUIREMENTS
- REFER TO FLOOR PLANS FOR DOOR LOCATIONS.
- CONTRACTOR TO VERIFY EXACT ROUGH OPENING SIZES WITH DOOR MANUFACTURER SPECIFICATIONS PRIOR TO FABRICATION OF ROUGH OPENINGS.
- CONTRACTOR TO VERIFY ACTUAL DOOR SIZES TO FIT FINISH OPENING PRIOR TO FABRICATION OF DOOR AND FINISH OPENING.
- REFER TO DOOR TYPES LEGEND FOR GLAZING.
- REFER TO T24 REPORT FOR GLAZING ENERGY REQUIREMENTS
- INSTALL PER MANUFACTURERS WRITTEN INSTRUCTIONS

## DOOR REMARKS

- EGRESS DOOR.
- EQUIPPED W/PANIC HARDWARE.
- INCLUDES SAFETY GLAZING.
- FIRE-RATED DOOR ASSEMBLY. VISION PANELS OR LITES TO RECEIVE WIRE GLASS.
- LOUVERED DOOR.
- KICK-PLATE PROVIDED.
- HINGE HARDWARE TO BE OFFSET TO ALLOW DOOR TO BE FLUSH WITH MTL PANEL.
- MTL PANEL INTEGRATED ON DOOR TO MATCH MTL PANEL FINISH.
- CARD READER
- PUSH-PULL HARDWARE DOOR
- LEVER HARDWARE DOOR
- PROVIDE LOUVER (0.25 SQ FT MIN. FREE AREA)

## DOOR ABBREVIATIONS

AL	ALUMINUM
FG	FIBERGLASS
HM	HOLLOW METAL
PT	PAINT
PM	PRIME
M	MASONITE
SS	STAINLESS STEEL
T	TEMPERED
WD	WOOD

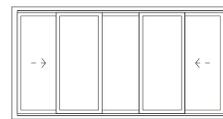
## WINDOW GENERAL NOTES

- REFER TO GENERAL NOTES ON SHEET GA-101 FOR ADDITIONAL REQUIREMENTS
- REFER TO FLOOR PLANS FOR WINDOW LOCATIONS.
- CONTRACTOR TO VERIFY EXACT ROUGH OPENING SIZES WITH WINDOW MANUFACTURER SPECIFICATIONS PRIOR TO FABRICATION OF ROUGH OPENINGS.
- CONTRACTOR TO VERIFY ACTUAL WINDOW SIZES TO FIT FINISH OPENING PRIOR TO FABRICATION OF WINDOW AND FINISH OPENING.
- HEAD HEIGHT MEASURED FROM FF UNLESS NOTED OTHERWISE.
- REFER TO ENERGY COMPLIANCE REPORTS FOR U-FACTOR, SHGC AND ADDITIONAL WINDOW REQUIREMENTS.
- ALL GLAZING IS DOUBLE PANE UNLESS OTHERWISE NOTED.
- PROVIDE SHOP DRAWINGS FOR ALL WINDOW UNITS
- REFER TO WINDOW TYPES LEGEND FOR GLAZING.
- REFER TO WINDOW SCHEDULE AND WINDOW TYPES LEGEND FOR FURTHER INFORMATION
- STOREFRONT SECTIONS ARE 2" AND CURTAINWALL SECTIONS ARE 2-1/2". UNO. REFER TO STOREFRONT TYPES LEGEND FOR FURTHER INFORMATION.
- WINDOWS BETWEEN CONDITIONED AND UNCONDITIONED SPACES SHALL BE CAULKED, GASKETED, WEATHER-STRIPPED OR OTHERWISE SEALED.
- SAFETY GLAZING NOTATED WITH "T"

## WINDOW REMARKS

- INCLUDES SAFETY GLAZING.
- EGRESS WINDOW. MUST MEET CBC REQUIREMENTS.
- INSULATED TRANSLUCENT PANEL SYSTEM
- SKYLIGHT

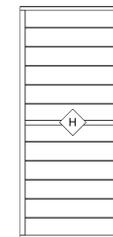
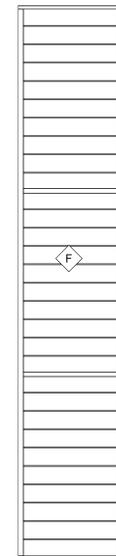
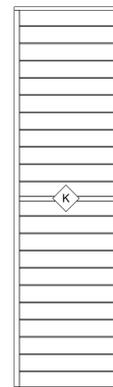
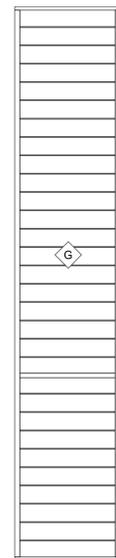
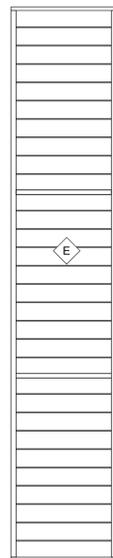
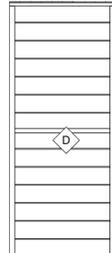
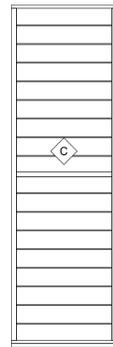
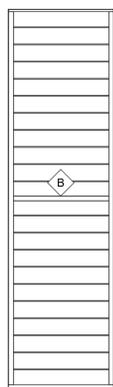
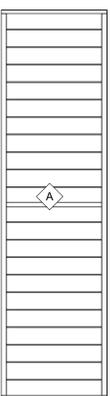
## WINDOW TYPES LEGEND



Z. INTERIOR SERVICE WINDOW

## WINDOW SCHEDULE

NO.	TYPE	SIZE		SILL HEIGHT	Head Height	DETAILS			DETAILS			REMARKS	
		WIDTH	HEIGHT			HEAD	JAMB	SILL	HEAD	JAMB	SILL		
01	A	5'-0"	18'-3"	15'-3"	33'-6"					53/A901			3
02	B	5'-0"	17'-10"	0'-2 11/16"	18'-0 11/16"					53/A901			3
03	C	5'-0"	15'-11"	20'-1"	36'-0"					53/A901			3
04	D	5'-0"	12'-0"	24'-10"	36'-10"					53/A901			3
05	E	5'-0"	26'-0"	14'-6"	40'-6"					53/A901			3
06	F	5'-0"	26'-0"	0'-0"	26'-0"					53/A901			3
07	G	5'-0"	26'-0"	14'-6"	40'-6"					53/A901			3
08	H	5'-0"	10'-10 1/2"	8'-2"	19'-0 1/2"					53/A901			3
09	J	5'-0"	28'-0"	10'-6"	38'-6"					53/A901			3
10	K	5'-0"	18'-0"	0'-0"	18'-0"								3
11	L	5'-0"	12'-0"	22'-0"	34'-0"								3
27	Z	10'-0"	3'-8"	3'-4"	7'-0"								3



NOTE: SEE SILL HEIGHT IN ELEVATIONS



CONSULTANT

AGENCY

**FOURTH ST COMMUNITY  
CENTER AND PARK**  
HENDERSON AVE., PORTERVILLE, CA 93257  
**DOOR AND WINDOW  
SCHEDULES**

NO.	REVISION	DATE
1	PLAN CHECK REVISION 1	05/17/24
2	PLAN CHECK REVISION 2	09/17/24
3	ADDENDUM 6	12/13/24
4		
5		
6		

PROJECT MANAGER	
TSL	
DRAWN BY	CHECKED BY
MC, NA, PM	DD, KF
DATE	
2024.12.20	
PROJECT NUMBER	
2883-01-RC22	
SHEET	

**A601**

PLAN CHECK REVISION 2



CONSULTANT

### WINDOW GENERAL NOTES

- REFER TO GENERAL NOTES ON SHEET GA-101 FOR ADDITIONAL REQUIREMENTS
- REFER TO FLOOR PLANS FOR WINDOW LOCATIONS
- CONTRACTOR TO VERIFY EXACT ROUGH OPENING SIZES WITH WINDOW MANUFACTURER SPECIFICATIONS PRIOR TO FABRICATION OF ROUGH OPENINGS
- CONTRACTOR TO VERIFY ACTUAL WINDOW SIZES TO FIT FINISH OPENING PRIOR TO FABRICATION OF WINDOW AND FINISH OPENING
- HEAD HEIGHT MEASURED FROM FF UNLESS NOTED OTHERWISE
- REFER TO ENERGY COMPLIANCE REPORTS FOR U-FACTOR, SHGC AND ADDITIONAL WINDOW REQUIREMENTS
- ALL GLAZING IS DOUBLE PANE UNLESS OTHERWISE NOTED
- PROVIDE SHOP DRAWINGS FOR ALL WINDOW UNITS
- REFER TO WINDOW TYPES LEGEND FOR GLAZING
- REFER TO WINDOW SCHEDULE AND WINDOW TYPES LEGEND FOR FURTHER INFORMATION
- STOREFRONT SECTIONS ARE 2" AND CURTAINWALL SECTIONS ARE 2-1/2". UNO. REFER TO STOREFRONT TYPES LEGEND FOR FURTHER INFORMATION
- WINDOWS BETWEEN CONDITIONED AND UNCONDITIONED SPACES SHALL BE CAULKED, GASKETED, WEATHER-STRIPPED OR OTHERWISE SEALED
- SAFETY GLAZING NOTATED WITH "T"

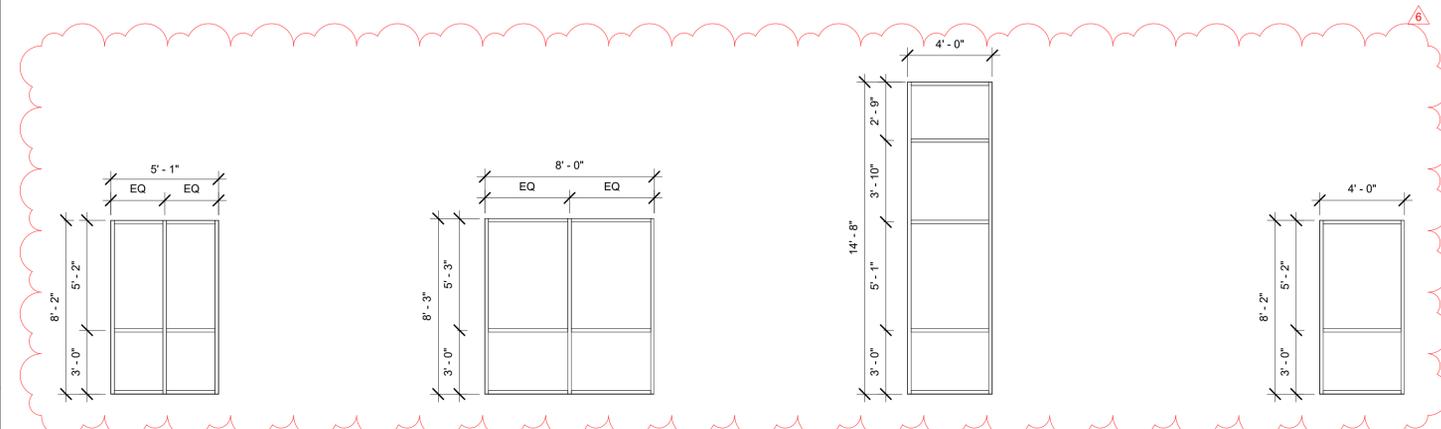
### WINDOW REMARKS

- INCLUDES SAFETY GLAZING
- EGRESS WINDOW. MUST MEET CBC REQUIREMENTS
- INSULATED TRANSLUCENT PANEL SYSTEM
- SKYLIGHT

### LEGEND

GLASS	
	VISION GLASS
	SPANDREL GLASS
	TEMPERED GLASS

AGENCY



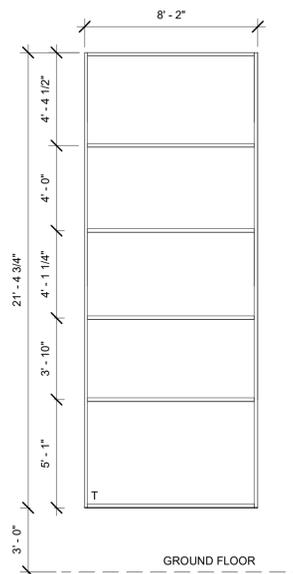
**5 STOREFRONT 05**  
 A401 | A602 | SCALE: 1/4" = 1'-0"

**4 STOREFRONT 04**  
 A401 | A602 | SCALE: 1/4" = 1'-0"

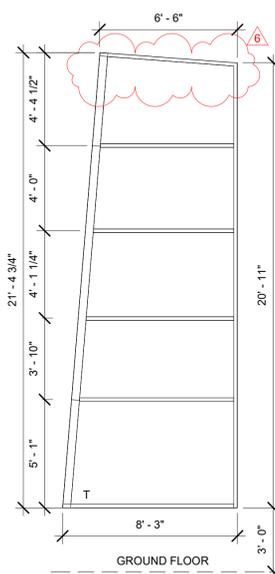
**3 STOREFRONT 03**  
 A401 | A602 | SCALE: 1/4" = 1'-0"

**2 STOREFRONT 02**  
 A401 | A602 | SCALE: 1/4" = 1'-0"

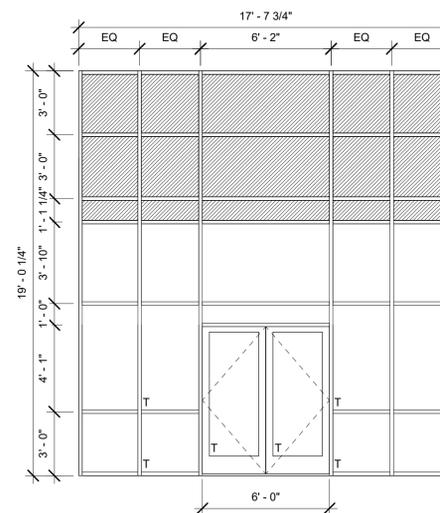
**1 STOREFRONT ELEVATION 01**  
 A501 | A602 | SCALE: 1/4" = 1'-0"



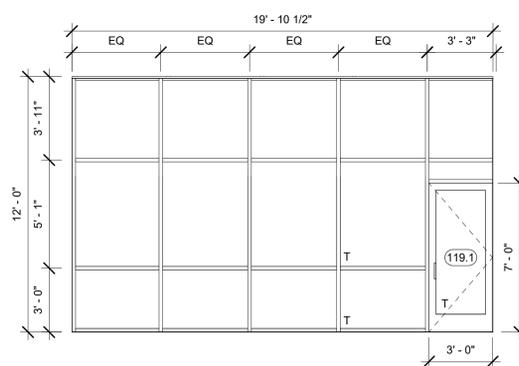
**8 STOREFRONT 08**  
 A501 | A602 | SCALE: 1/4" = 1'-0"



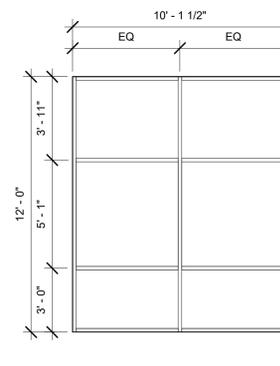
**7 STOREFRONT 07**  
 A501 | A602 | SCALE: 1/4" = 1'-0"



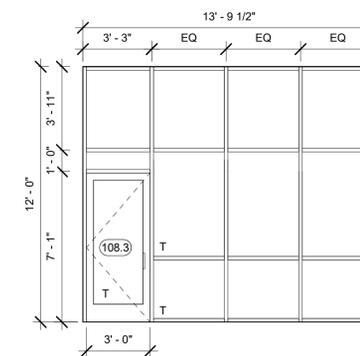
**6 STOREFRONT 06**  
 A401 | A602 | SCALE: 1/4" = 1'-0"



**11 STOREFRONT 11**  
 A501 | A602 | SCALE: 1/4" = 1'-0"



**10 STOREFRONT 10**  
 A501 | A602 | SCALE: 1/4" = 1'-0"



**9 STOREFRONT 09**  
 A501 | A602 | SCALE: 1/4" = 1'-0"

**FOURTH ST COMMUNITY CENTER AND PARK**  
 HENDERSON AVE., PORTERVILLE, CA 93257  
 STOREFRONT SCHEDULES

NO.	REVISION	DATE
△	ADDENDUM	11/08/24
△	ADDENDUM 6	12/13/24
△		
△		
△		

PROJECT MANAGER  
 TSL  
 DRAWN BY  
 MC, NA, PM  
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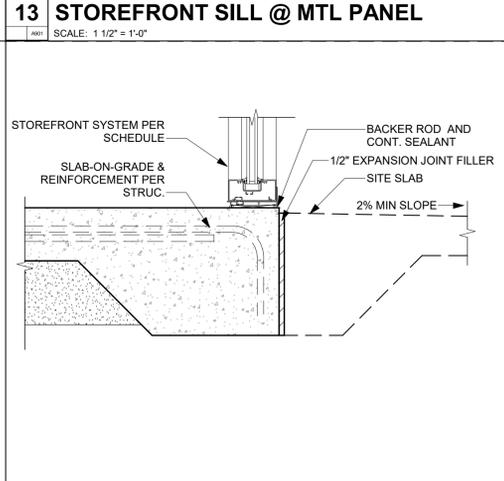
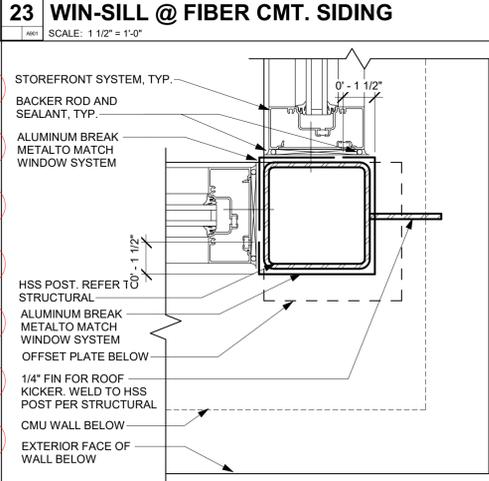
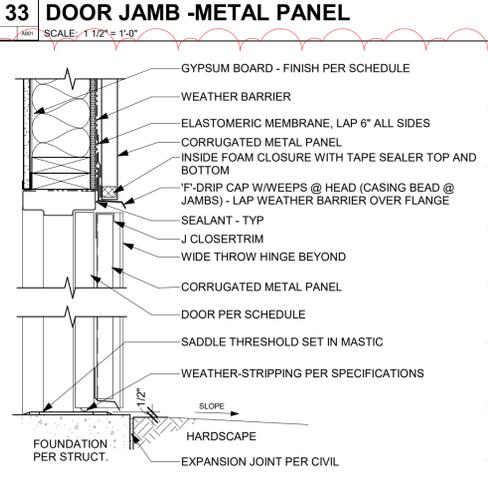
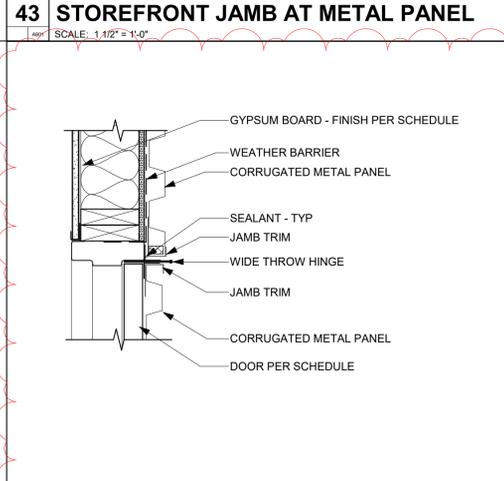
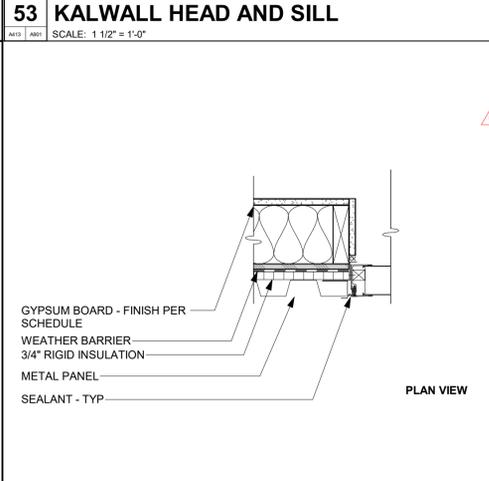
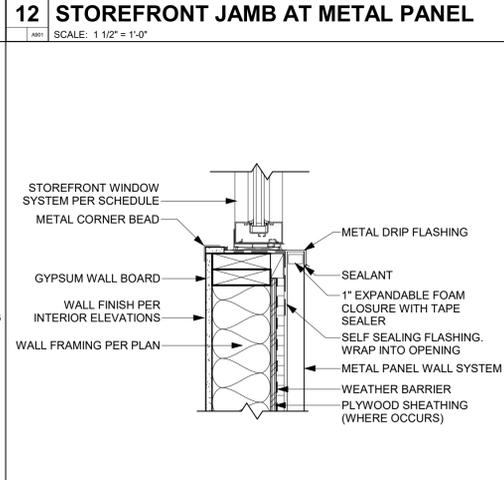
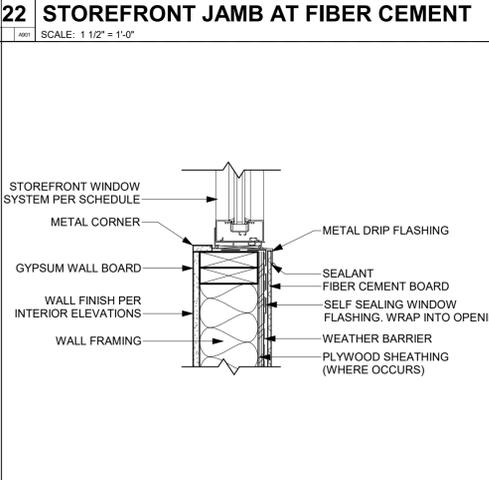
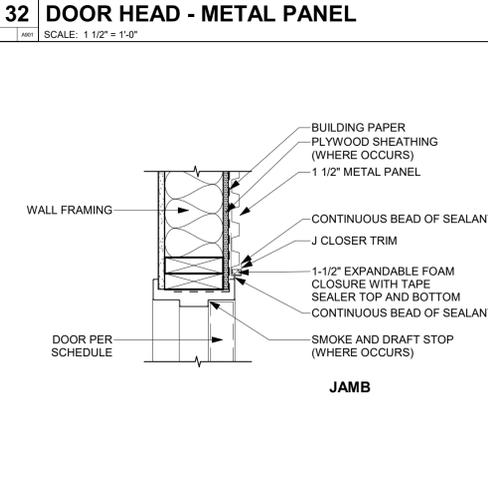
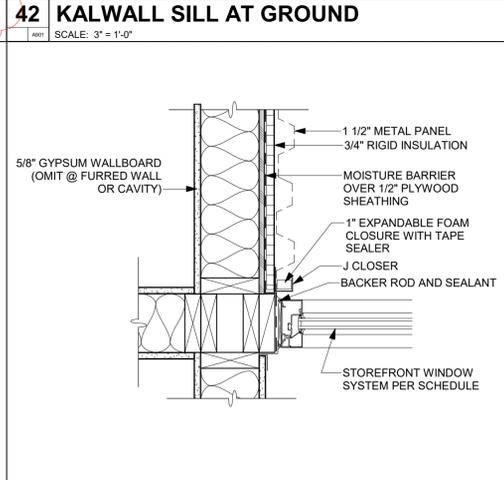
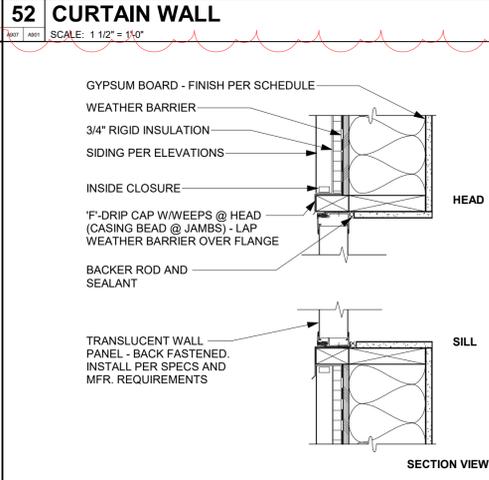
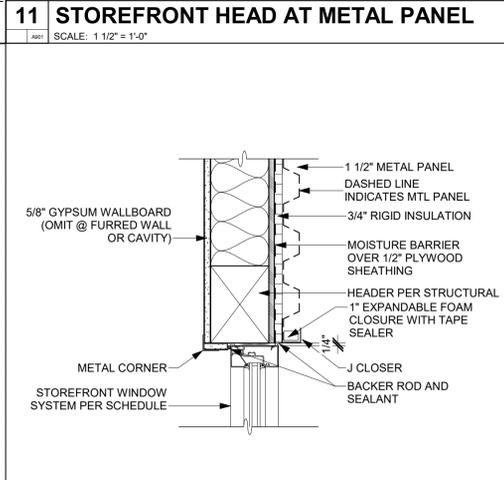
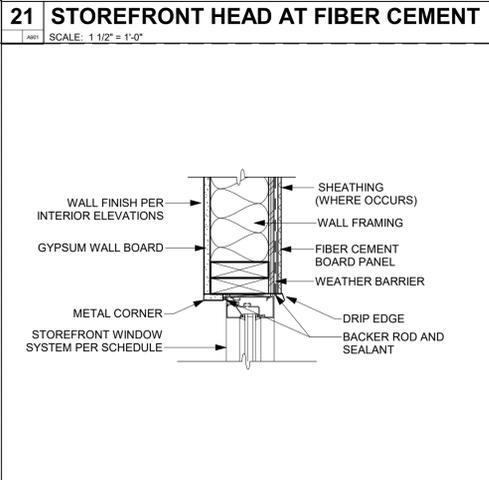
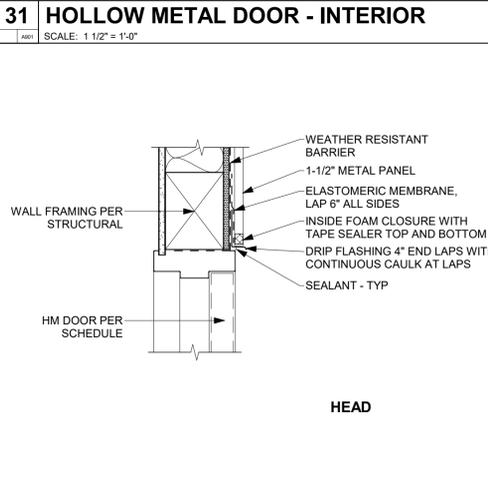
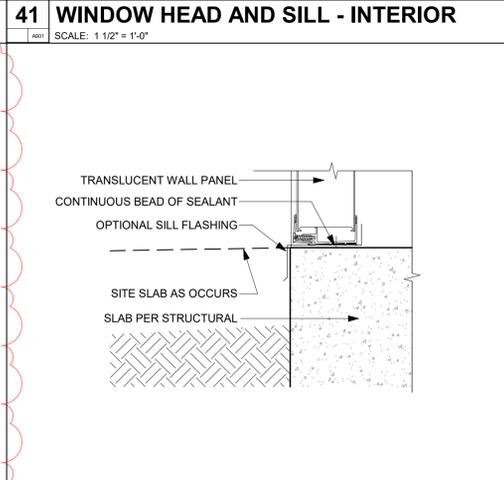
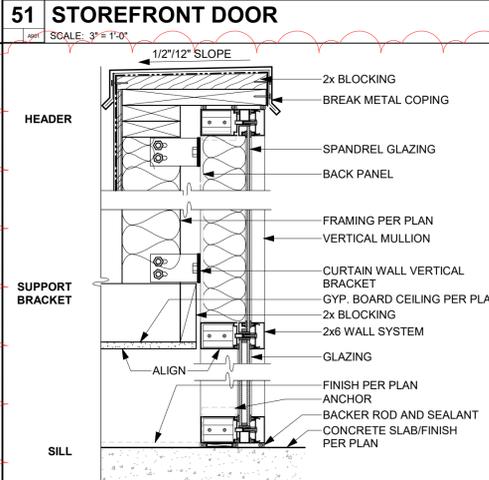
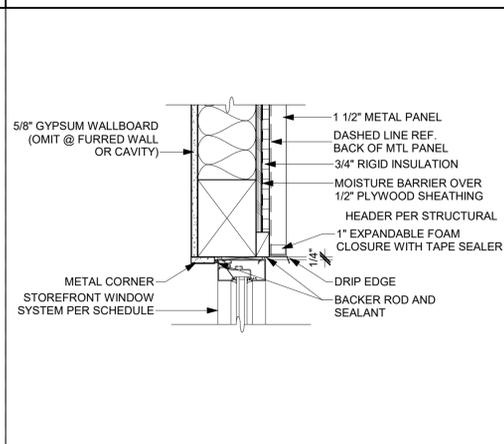
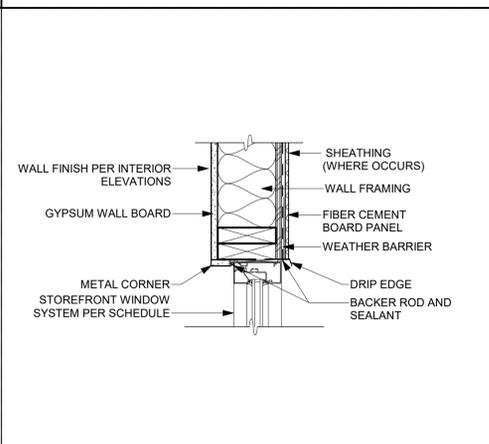
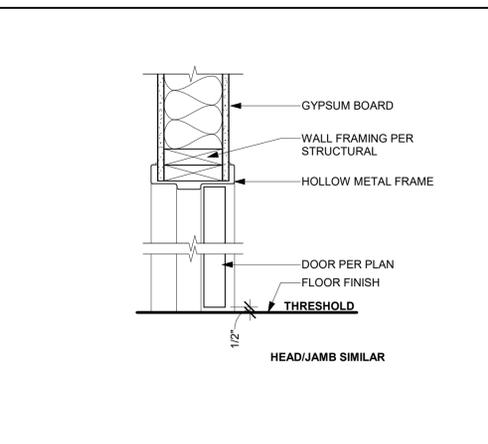
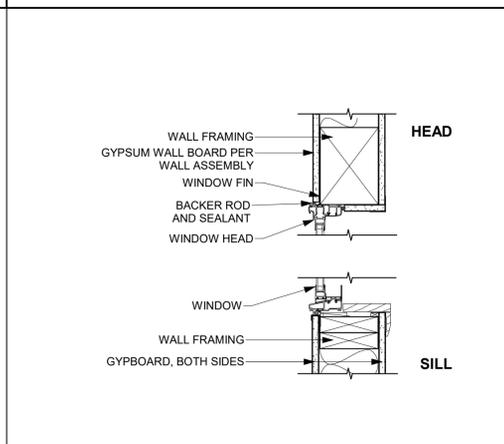
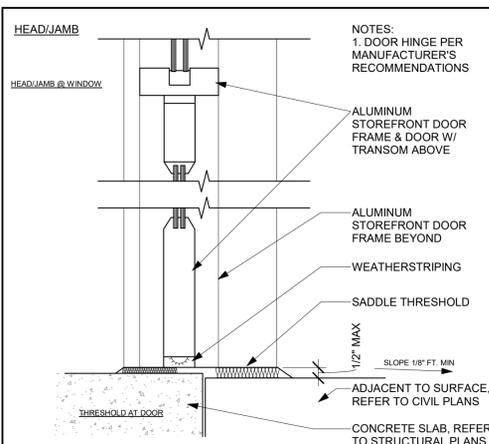
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PLAN CHECK REVISION 2



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**FOURTH ST COMMUNITY CENTER AND PARK**  
HENDERSON AVE., PORTERVILLE, CA 93257  
**ARCHITECTURAL DETAILS - DOOR AND WINDOW**

NO.	REVISION	DATE
1	PLAN CHECK REVISION 1	05/17/24
2	ADDENDUM 4	11/27/24
3	ADDENDUM 5	11/08/24
4	ADDENDUM 6	12/13/24

PROJECT MANAGER  
TSL  
DRAWN BY  
MC, NA, PM  
CHECKED BY  
DD, KF  
DATE  
2024.12.20  
PROJECT NUMBER  
2883-01-RC22  
SHEET

**A901**

PLAN CHECK REVISION 2



CONSULTANT

AGENCY

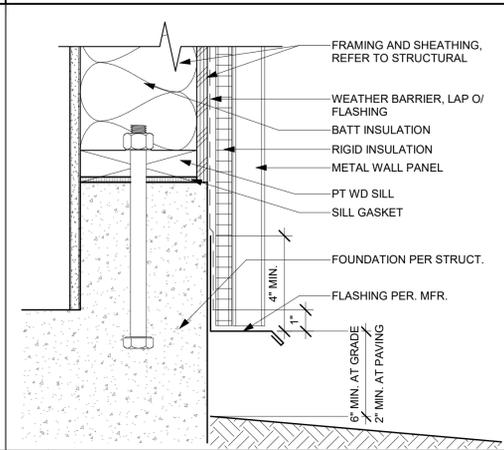
**FOURTH ST COMMUNITY CENTER AND PARK**  
 HENDERSON AVE., PORTERVILLE, CA 93257  
**ARCHITECTURAL DETAILS - EXTERIOR**

NO.	REVISION	DATE
1	PLAN CHECK REVISION 1	05/17/24
2	ADDENDUM 4	11/27/24
3	ADDENDUM 5	11/08/24
4	ADDENDUM 6	12/13/24

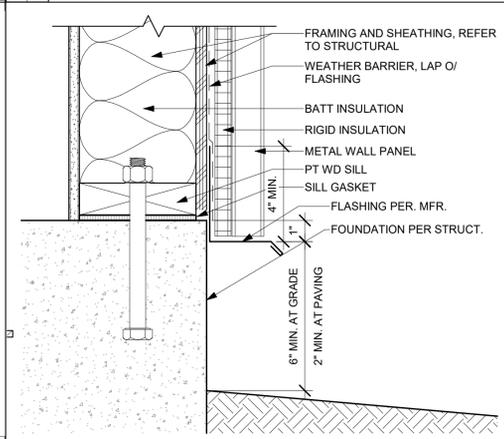
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TSL  
 DRAWN BY  
MC, NA, PM  
 CHECKED BY  
DD, KF  
 DATE  
2024.12.20  
 PROJECT NUMBER  
2883-01-RC22  
 SHEET

**A903**

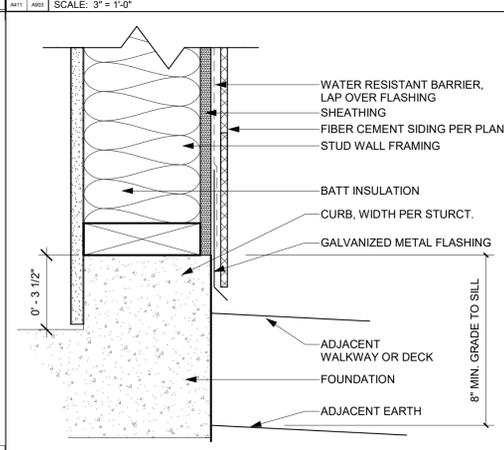
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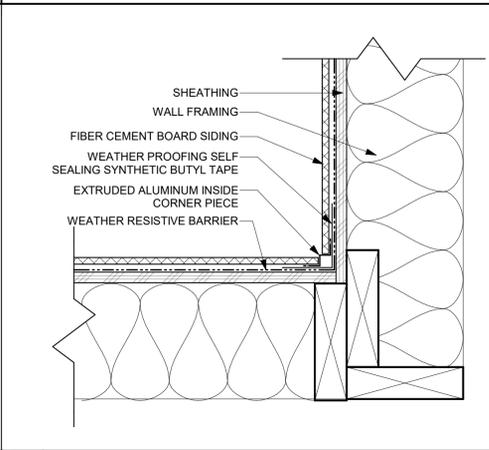
**11 METAL PANEL WALL AT CURB**  
 SCALE: 3" = 1'-0"



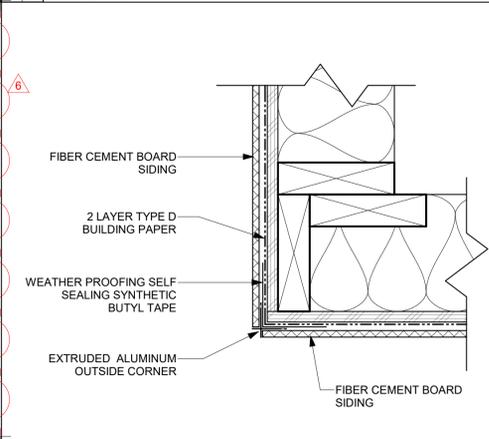
**12 METAL PANEL WALL AT FINISH GRADE**  
 SCALE: 3" = 1'-0"



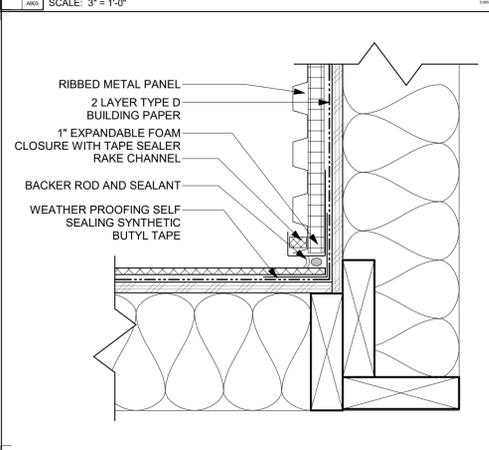
**13 FIBER CEMENT WALL AT FINISH GRADE**  
 SCALE: 3" = 1'-0"



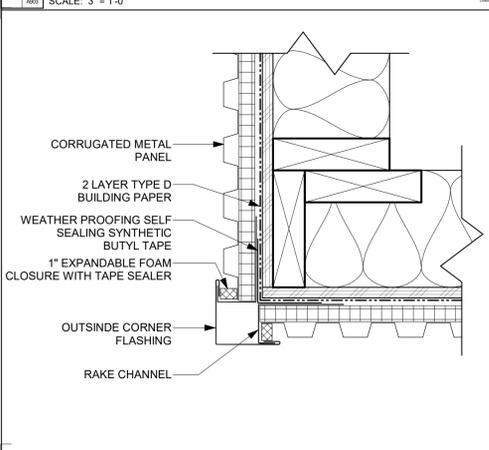
**31 FIBER CEMENT BOARD - INSIDE CORNER**  
 SCALE: 3" = 1'-0"



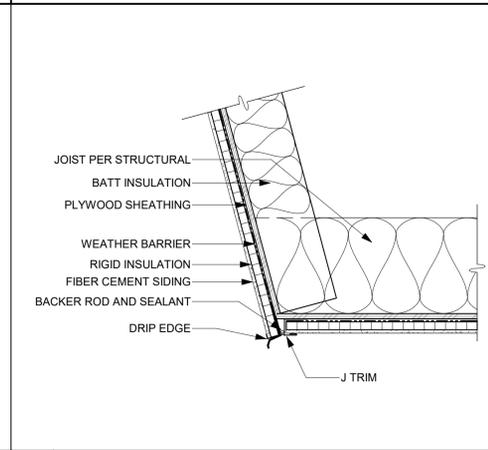
**32 FIBER CEMENT BOARD - EXT. CORNER**  
 SCALE: 3" = 1'-0"



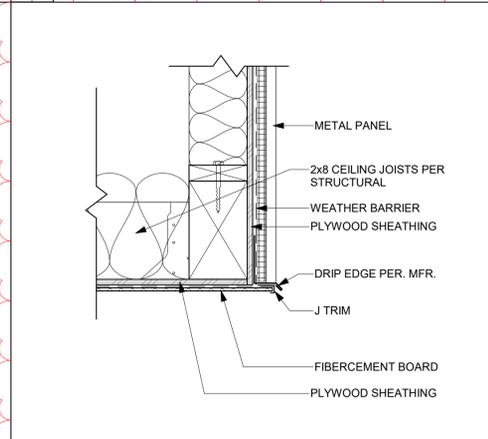
**33 FIBER CEMENT BOARD TO MTL PANEL**  
 SCALE: 3" = 1'-0"



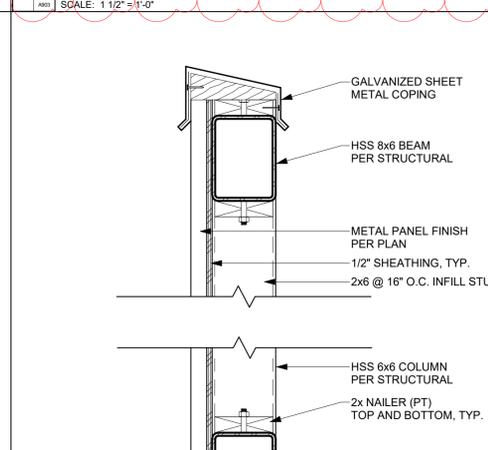
**34 METAL PANEL - OUTSIDE CORNER**  
 SCALE: 3" = 1'-0"



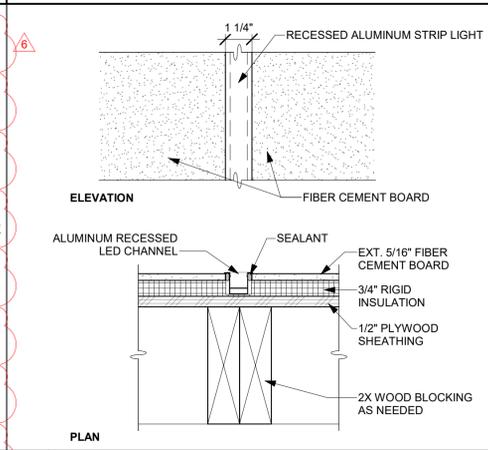
**41 EXTERIOR OVERHANG**  
 SCALE: 1 1/2" = 1'-0"



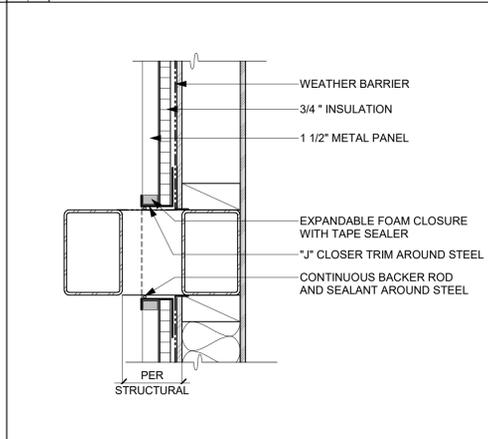
**42 EXT. FIBERCEMENT SOFFIT TO WALL**  
 SCALE: 1 1/2" = 1'-0"



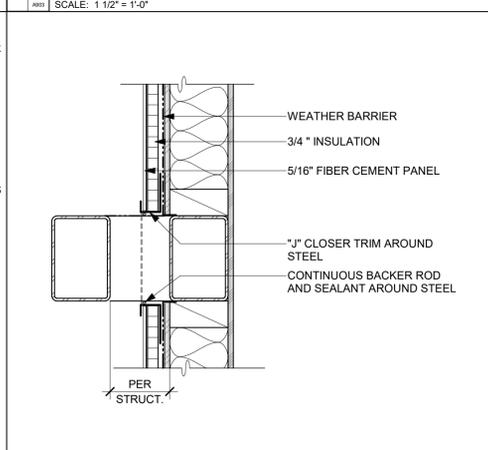
**44 ENCLOSURE WALL**  
 SCALE: 1 1/2" = 1'-0"



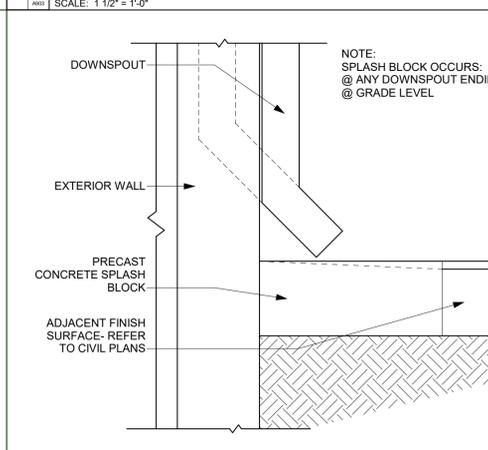
**51 LED STRIP LIGHT**  
 SCALE: 3" = 1'-0"



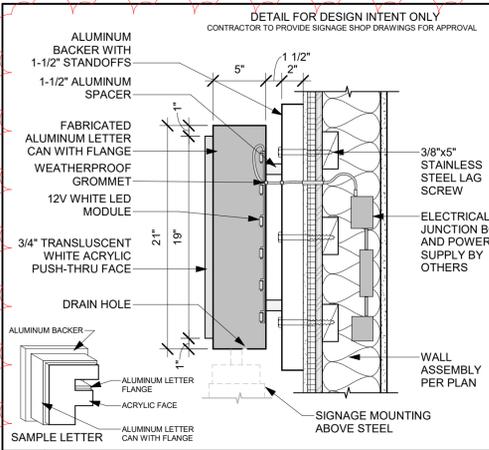
**52 STEEL PENETRATION-MTL PANEL WALL**  
 SCALE: 1 1/2" = 1'-0"



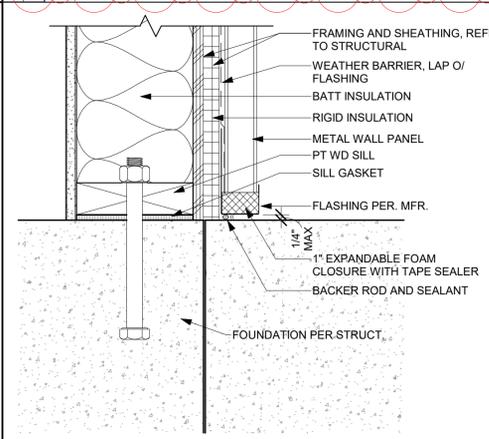
**53 STEEL PENETRATION-FIBER CEMENT**  
 SCALE: 1 1/2" = 1'-0"



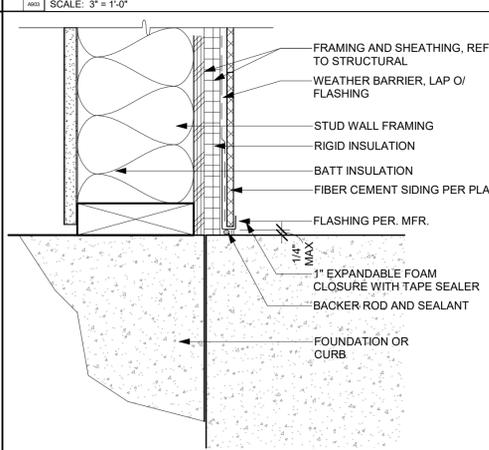
**54 SPLASH BLOCK**  
 SCALE: 1 1/2" = 1'-0"



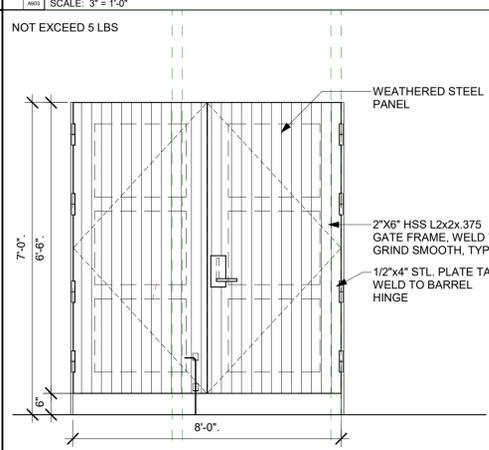
**61 BUILDING SIGNAGE DETAIL**  
 SCALE: 1 1/2" = 1'-0"



**62 METAL PANEL WALL AT LEVEL CONC.**  
 SCALE: 3" = 1'-0"



**63 FIBER CEMENT WALL AT LEVEL CONC.**  
 SCALE: 3" = 1'-0"



**64 ELECTRICAL YARD GATE**  
 SCALE: 1/2" = 1'-0"

12/23/2024 4:48:22 PM Autodesk Docs:2883-01\_Porterville Fourth St Community Center/2883-01-RC22\_Porterville\_v22.rvt



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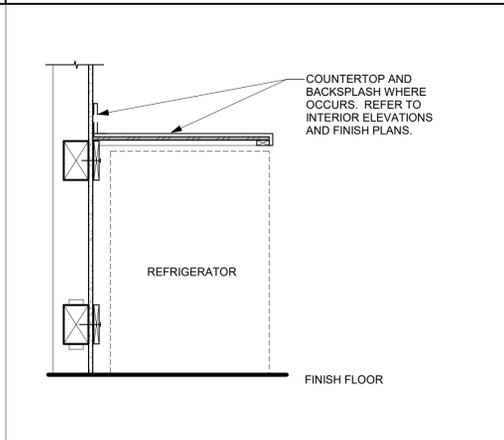
**FOURTH ST COMMUNITY CENTER AND PARK**  
HENDERSON AVE., PORTERVILLE, CA 93257  
**ARCHITECTURAL DETAILS - INTERIOR**

NO.	REVISION	DATE
1	PLAN CHECK REVISION 1	05/17/24
2	ADDENDUM	11/08/24
3	ADDENDUM 6	12/13/24
4		
5		
6		

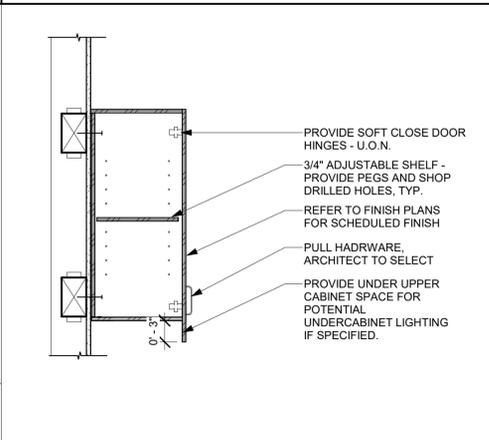
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TSL  
**DRAWN BY**  
M.C. NA, PM  
**CHECKED BY**  
DD, KF  
**DATE**  
2024.12.20  
**PROJECT NUMBER**  
2883-01-RC22  
**SHEET**

**A906**

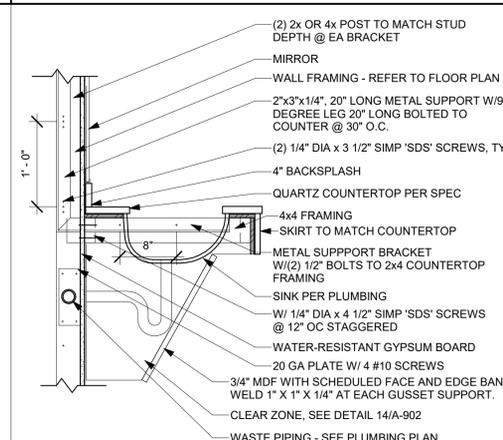
PLAN CHECK REVISION 2



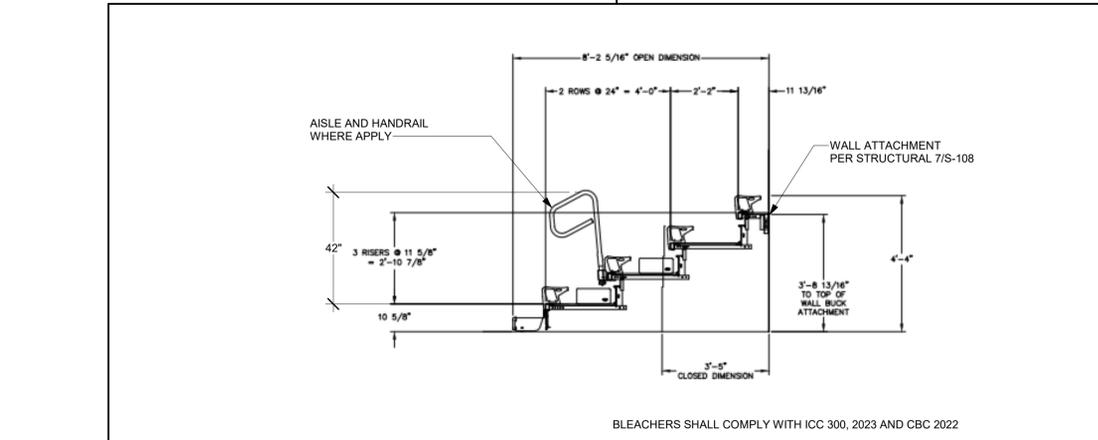
**11 BASE CABINET REFRIGERATOR**  
SCALE: 1" = 1'-0"



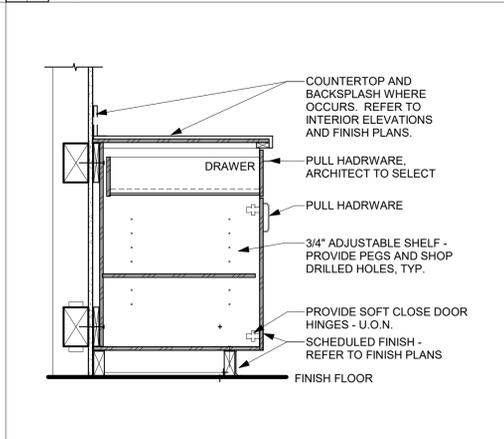
**21 UPPER CABINET**  
SCALE: 1" = 1'-0"



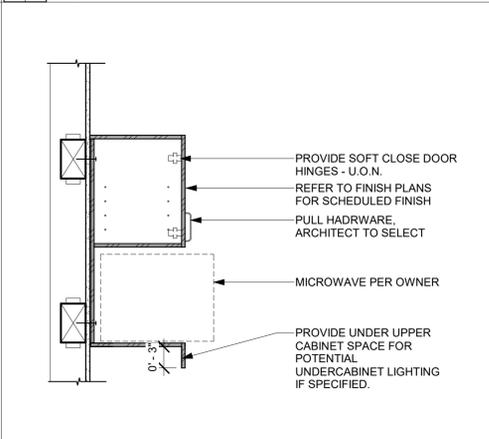
**31 LAVATORY COUNTER**  
SCALE: 1" = 1'-0"



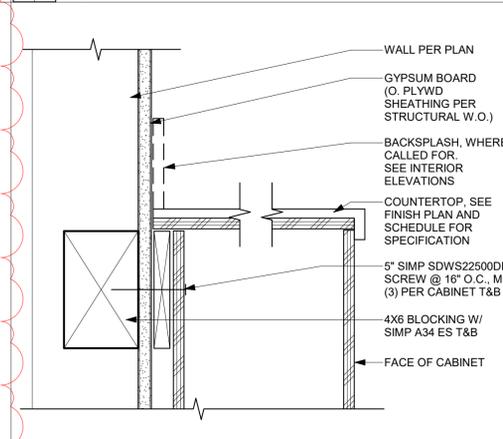
**51 BLEACHERS SECTION**  
SCALE: 3/8" = 1'-0"



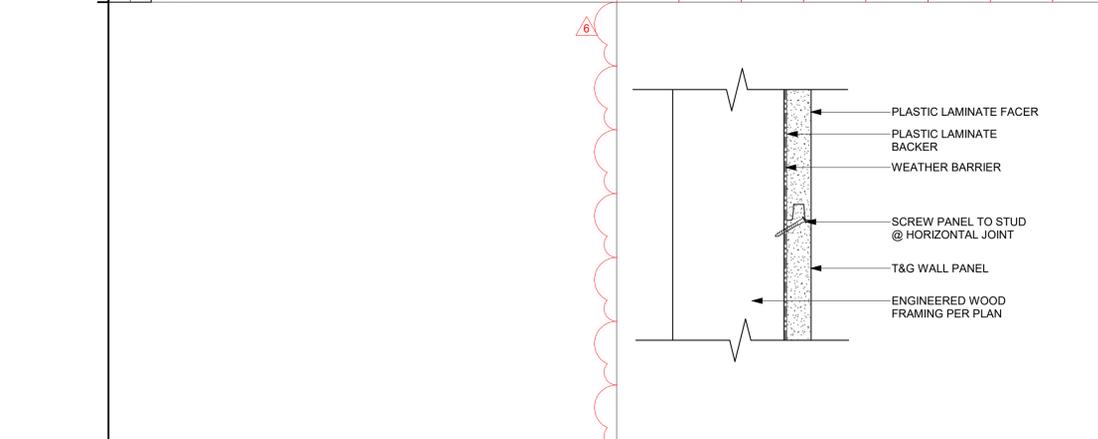
**12 BASE CABINET WITH DOOR**  
SCALE: 1" = 1'-0"



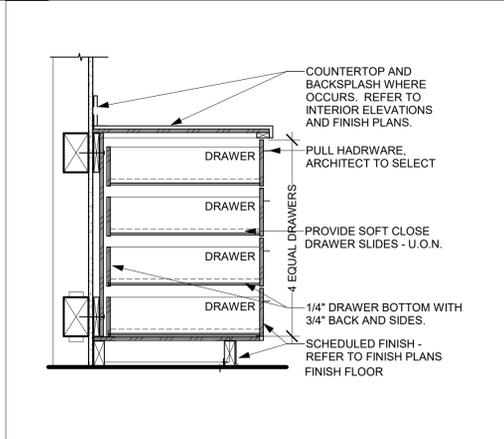
**22 UPPER CABINET MICROWAVE**  
SCALE: 1" = 1'-0"



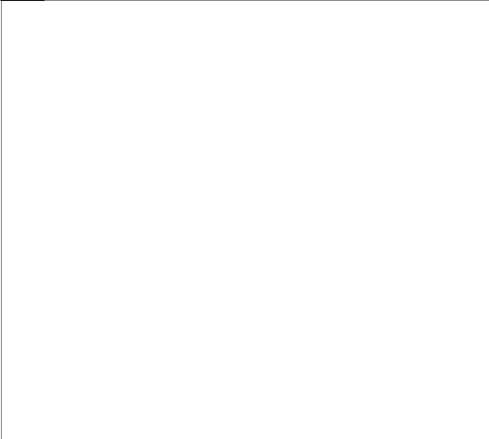
**32 CASEWORK COUNTERTOP**  
SCALE: 3" = 1'-0"



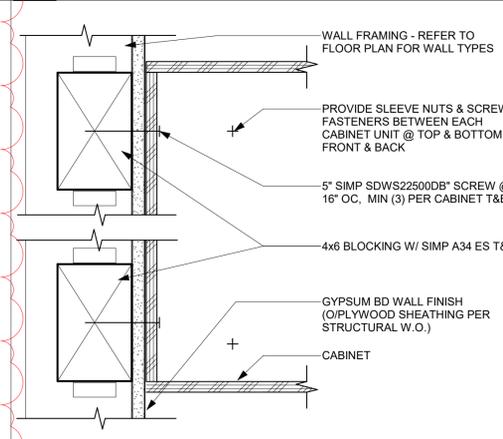
**42 RACQUETBALL WALL BOARD T&G**  
SCALE: 3" = 1'-0"



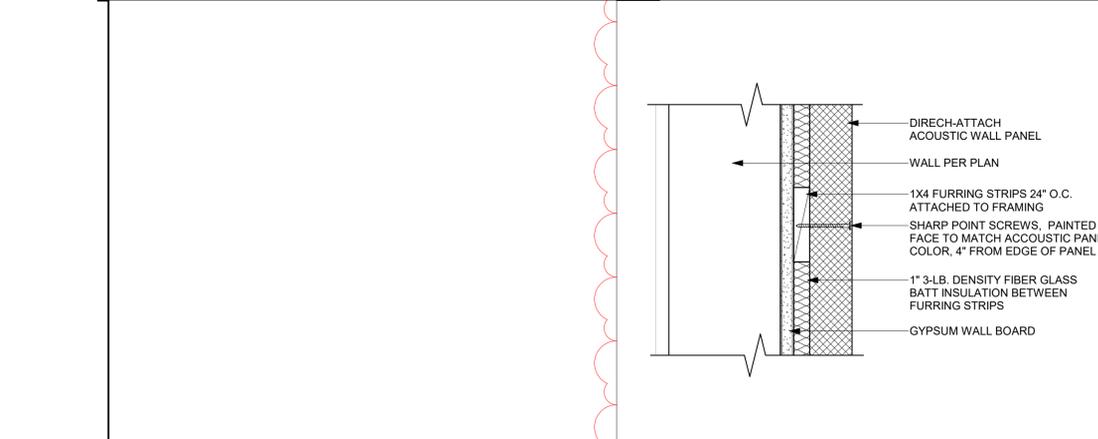
**13 BASE CABINET WITH DRAWERS**  
SCALE: 1" = 1'-0"



**23 UPPER CABINET ANCHORAGE**  
SCALE: 1" = 1'-0"



**33 UPPER CABINET ANCHORAGE**  
SCALE: 3" = 1'-0"



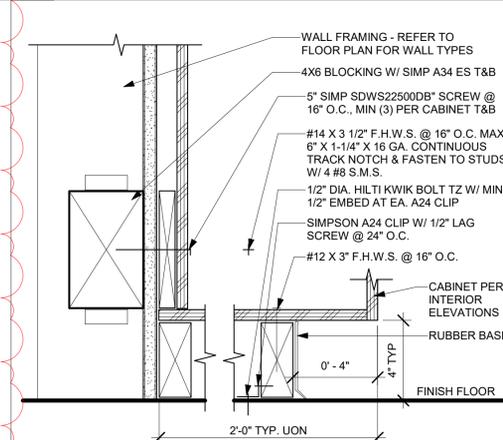
**43 DIRECT ATTACH ACOUSTIC PANELS**  
SCALE: 3" = 1'-0"



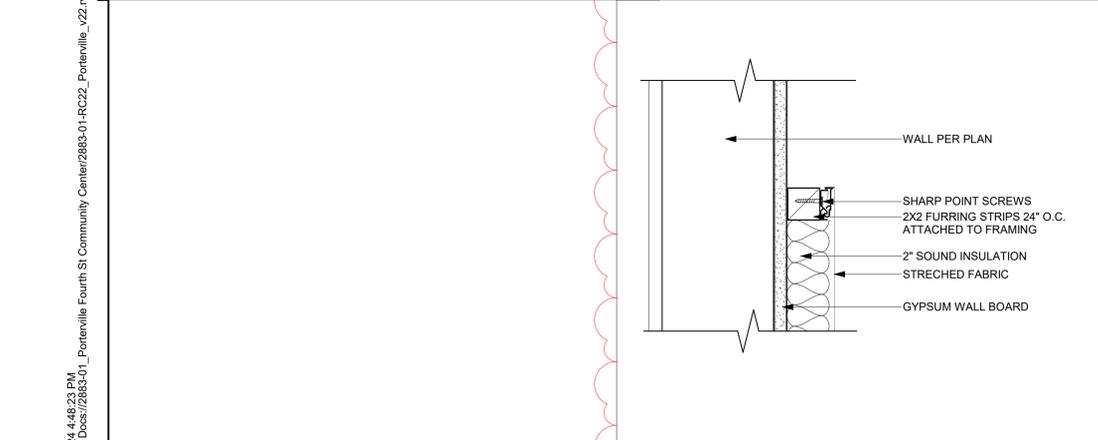
**14 BASE CABINET WITH DRAWERS**  
SCALE: 3" = 1'-0"



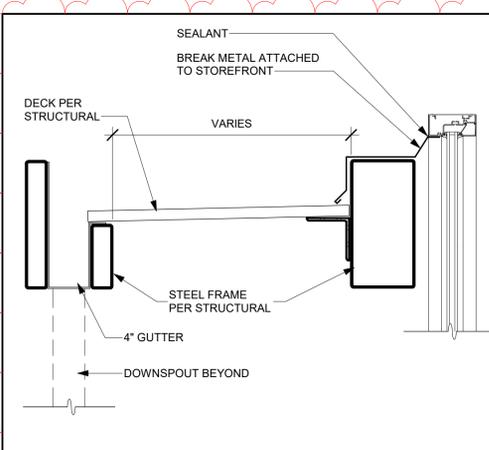
**24 BASE CABINET ANCHORAGE**  
SCALE: 3" = 1'-0"



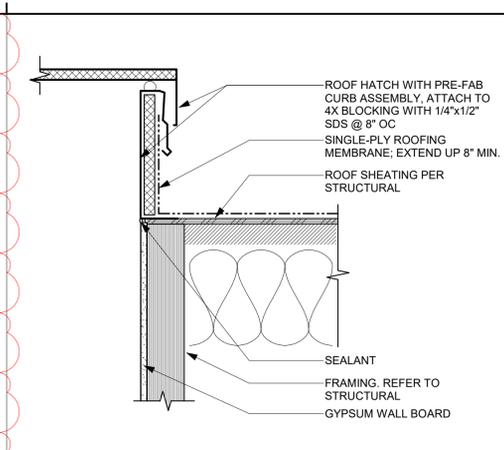
**34 BASE CABINET ANCHORAGE**  
SCALE: 3" = 1'-0"



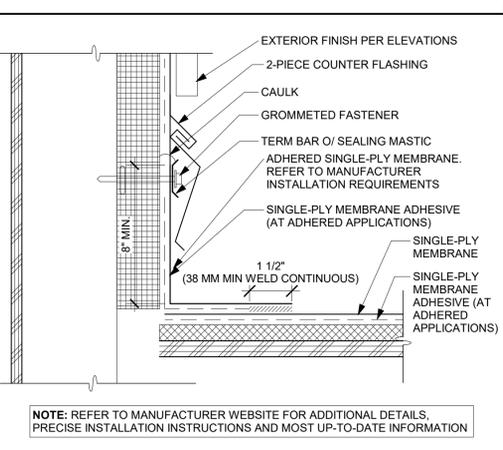
**44 STRETCH FABRIC PANELS**  
SCALE: 3" = 1'-0"



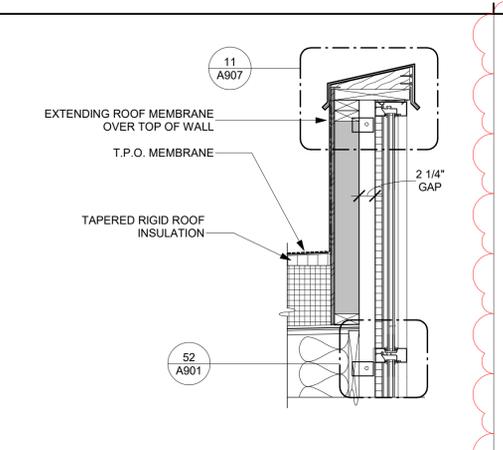
**51 COVERED AREA AT TRELLIS**  
SCALE: 1 1/2" = 1'-0"



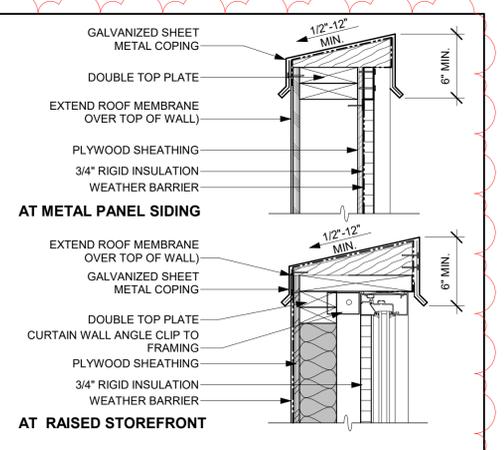
**41 ROOF HATCH FLASHING**  
SCALE: 1 1/2" = 1'-0"



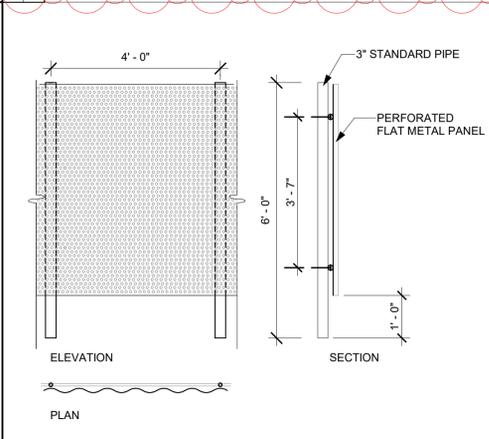
**31 SIDEWALL**  
SCALE: 3" = 1'-0"



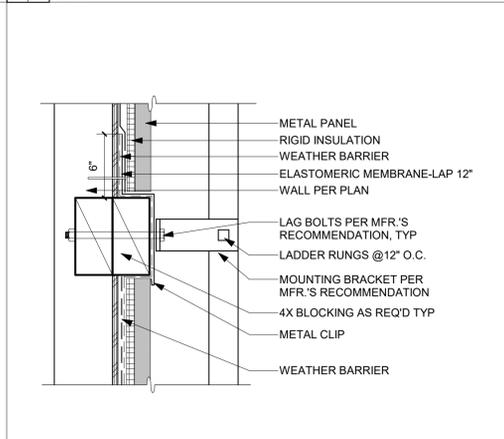
**21 PARAPET @ STOREFRONT**  
SCALE: 1" = 1'-0"



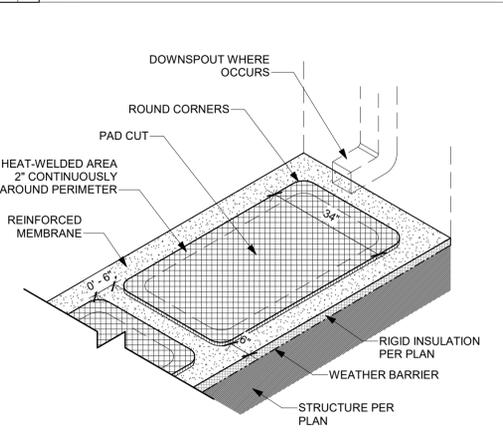
**11 PARAPET CAPPING DETAIL**  
SCALE: 1 1/2" = 1'-0"



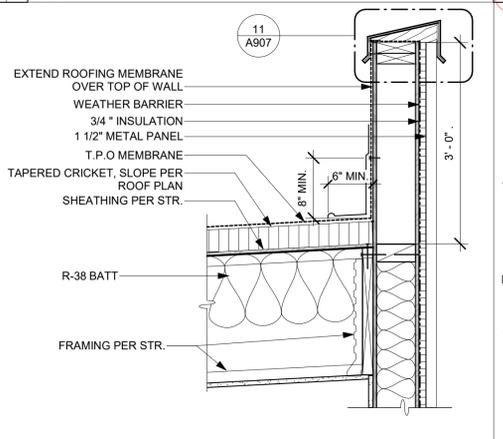
**52 HVAC SCREENING - PERF. METAL**  
SCALE: 1/2" = 1'-0"



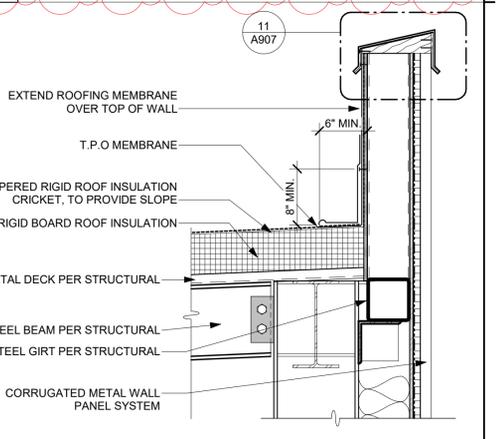
**42 LADDER ATTACHMENT AT METAL PANEL**  
SCALE: 1 1/2" = 1'-0"



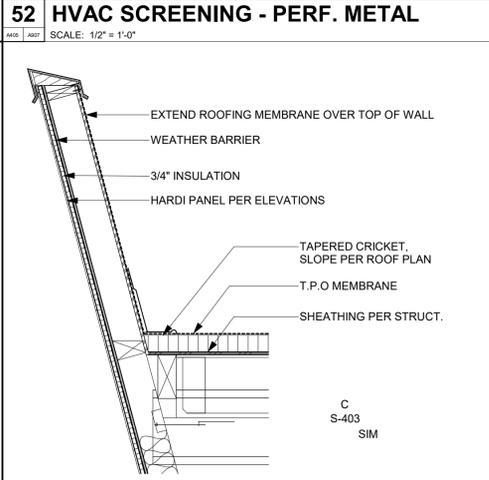
**32 SINGLE PLY ROOFING DOUBLE PAD**  
SCALE: 1/2" = 1'-0"



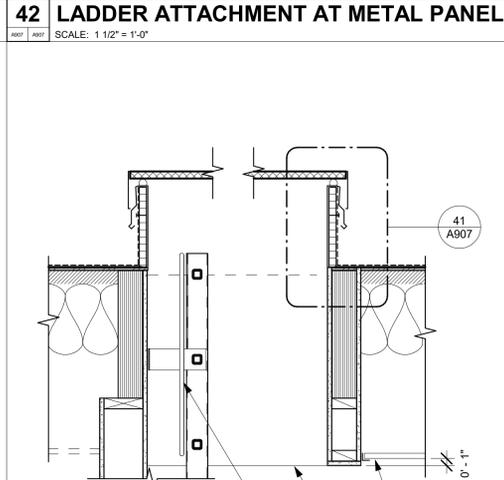
**22 PARAPET @ METAL WALL PANEL 2**  
SCALE: 1" = 1'-0"



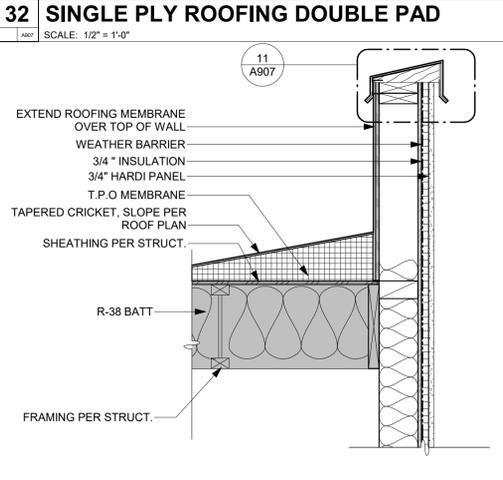
**12 PARALLEL PARAPET DETAIL (GYM)**  
SCALE: 1" = 1'-0"



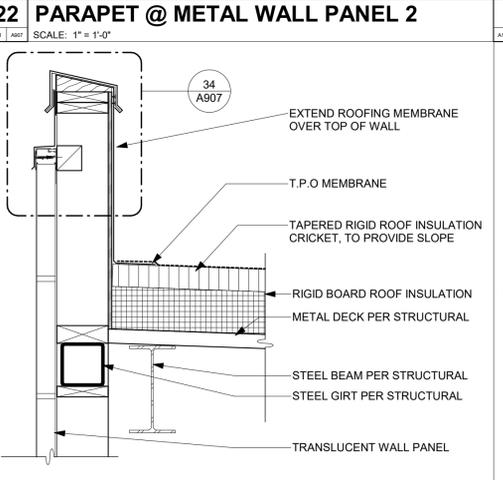
**54 PARAPET ANGLED WALL**  
SCALE: 3/4" = 1'-0"



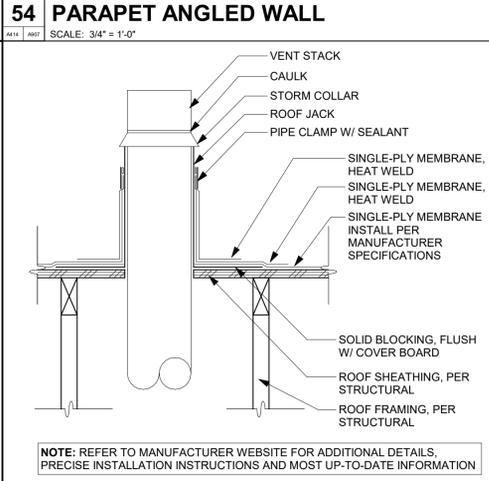
**43 PARAPET SIDE DETAIL HARDI PANEL**  
SCALE: 1" = 1'-0"



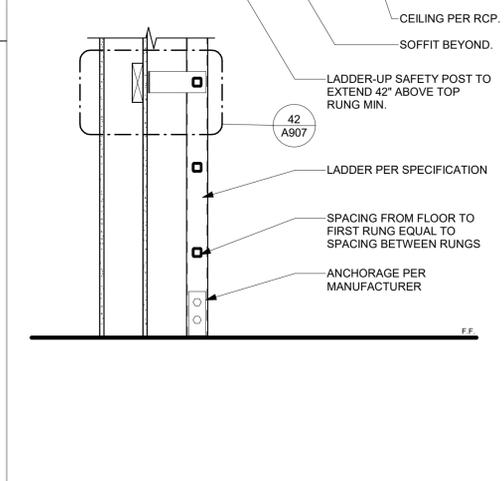
**23 PARAPET @ KALWALL**  
SCALE: 1" = 1'-0"



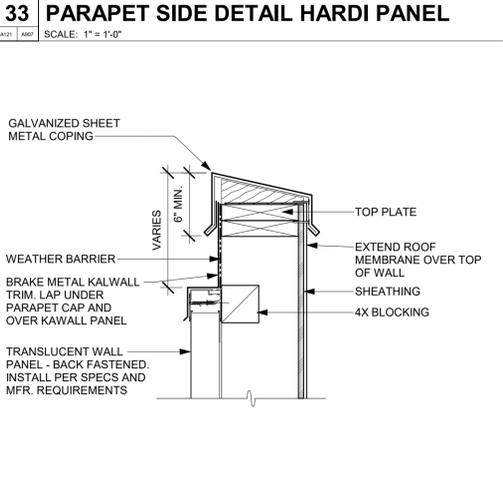
**13 PERPENDICULAR PARAPET DETAIL (GYM)**  
SCALE: 1" = 1'-0"



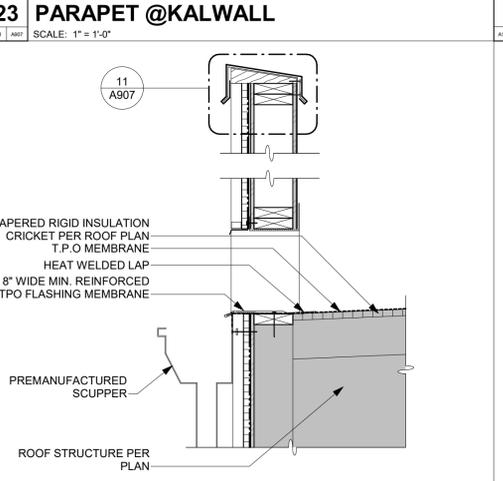
**55 SINGLE-PLY - VENT PIPE**  
SCALE: 1" = 1'-0"



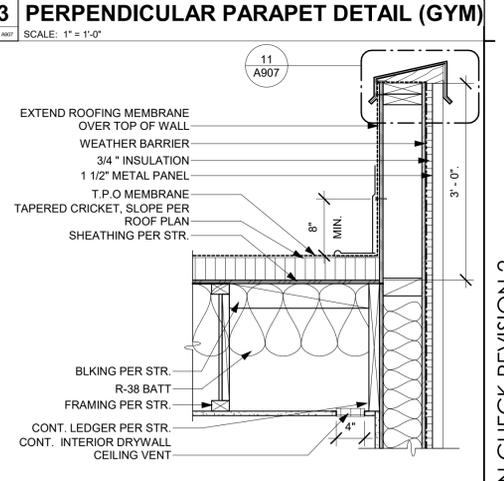
**44 ROOF HATCH AND LADDER**  
SCALE: 1" = 1'-0"



**34 PARAPET CAPPING @ KALWALL**  
SCALE: 1 1/2" = 1'-0"



**24 PARAPET GUTTER DETAIL**  
SCALE: 1" = 1'-0"



**14 PARAPET @ METAL WALL PANEL 1**  
SCALE: 1" = 1'-0"

**rrm design group**  
rrmdesign.com | (805) 543-1794  
3765 SOUTH HIGUERA STREET, SUITE 102  
SAN LUIS OBISPO, CA 93401

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C39678  
RENEWAL DATE

STATE OF CALIFORNIA

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AGENCY

**FOURTH ST COMMUNITY CENTER AND PARK**  
HENDERSON AVE., PORTERVILLE, CA 93257  
ARCHITECTURAL DETAILS - ROOF

NO.	REVISION	DATE
1	PLAN CHECK REVISION 1	05/17/24
2	PLAN CHECK REVISION 2	09/17/24
6	ADDENDUM 6	12/13/24

PROJECT MANAGER  
TSL

DRAWN BY  
MC, NA, PM

CHECKED BY  
DD, KF

DATE  
2024.12.20

PROJECT NUMBER  
2883-01-RC22

SHEET  
A907

PLAN CHECK REVISION 2

12/23/2024 4:48:26 PM Autodesk Docs:2883-01\_Porterville\_Fourth St Community Center/2883-01-RC22\_Porterville\_v22.rvt



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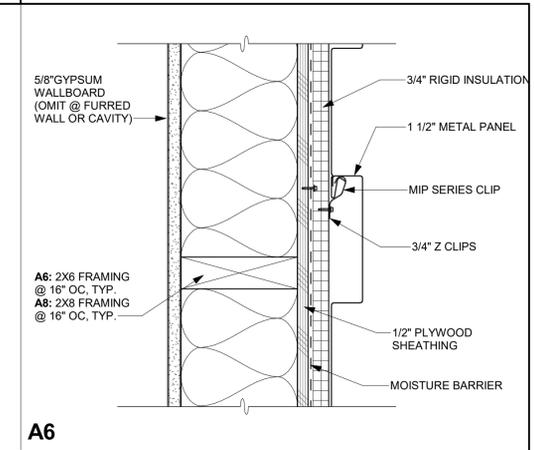
**FOURTH ST COMMUNITY CENTER AND PARK**  
HENDERSON AVE., PORTERVILLE, CA 93257  
**ARCHITECTURAL DETAILS - WALL TYPES**

NO.	REVISION	DATE
△	PLAN CHECK REVISION 1	05/17/24
△	ADDENDUM 6	12/13/24
△		
△		
△		

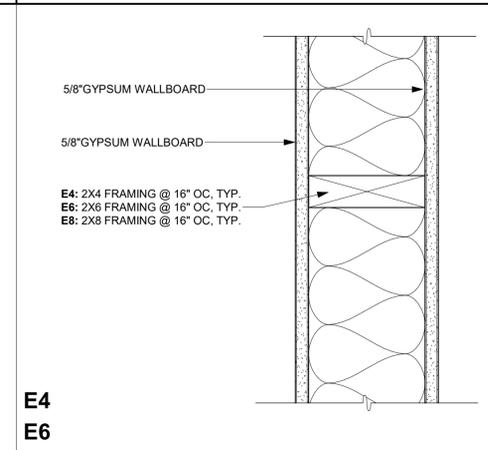
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<b>DRAWN BY</b> MC, NA, PM	<b>CHECKED BY</b> DD, KF
<b>DATE</b> 2024.12.20	
<b>PROJECT NUMBER</b> 2883-01-RC22	
<b>SHEET</b>	

**A921**

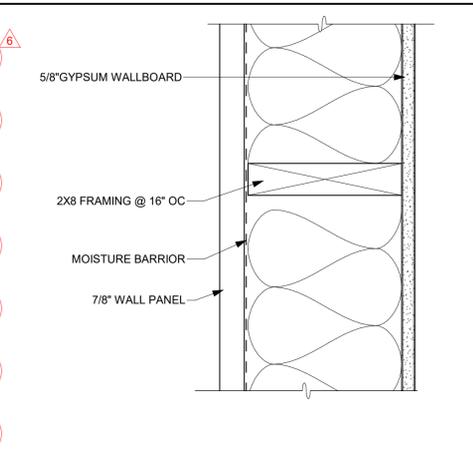
PLAN CHECK REVISION 2



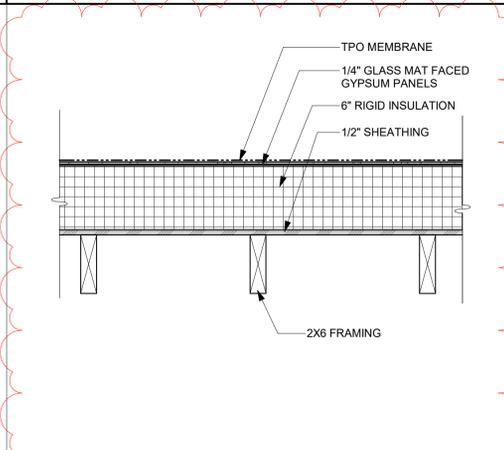
**A6** EXTERIOR WALL - METAL PANEL  
SCALE: 3" = 1'-0"



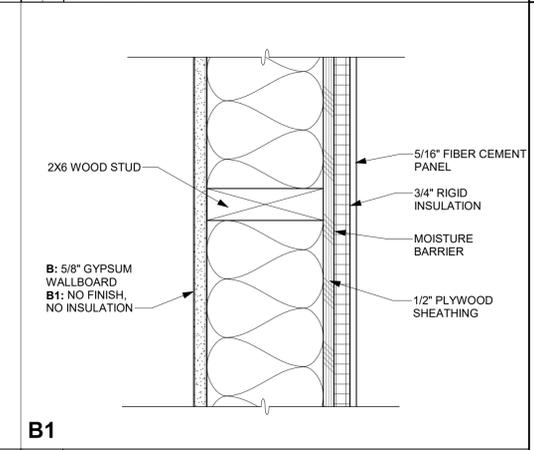
**E4**  
**E6** INTERIOR PARTITION WALL  
SCALE: 3" = 1'-0"



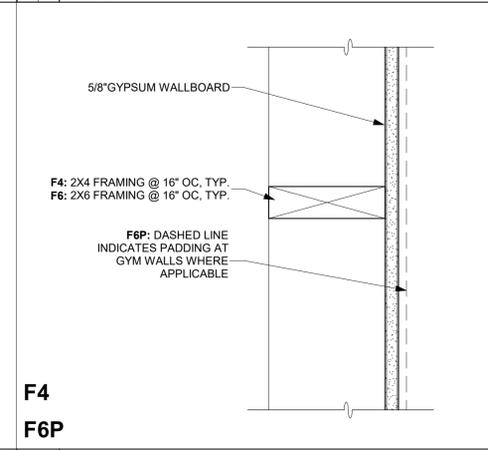
**E** INTERIOR PARTITION WALL  
SCALE: 3" = 1'-0"



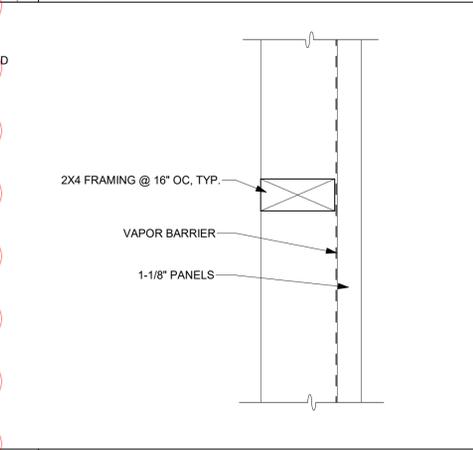
**41** ROOF ASSEMBLY @ 2X6  
SCALE: 1 1/2" = 1'-0"



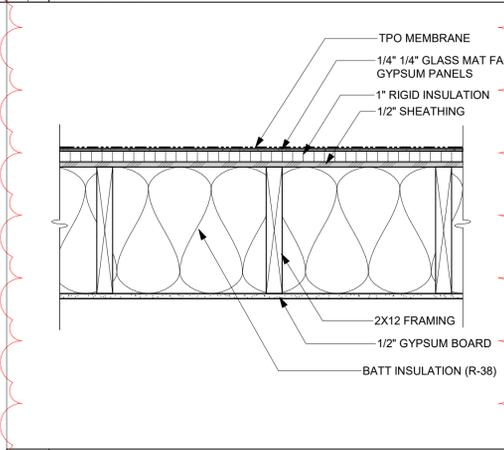
**B1** EXTERIOR WALL - FIBER CEMENT - GYP  
SCALE: 3" = 1'-0"



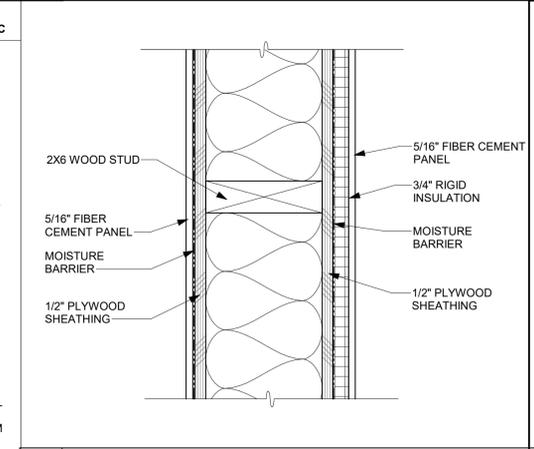
**F4**  
**F6P** INTERIOR FURRED  
SCALE: 3" = 1'-0"



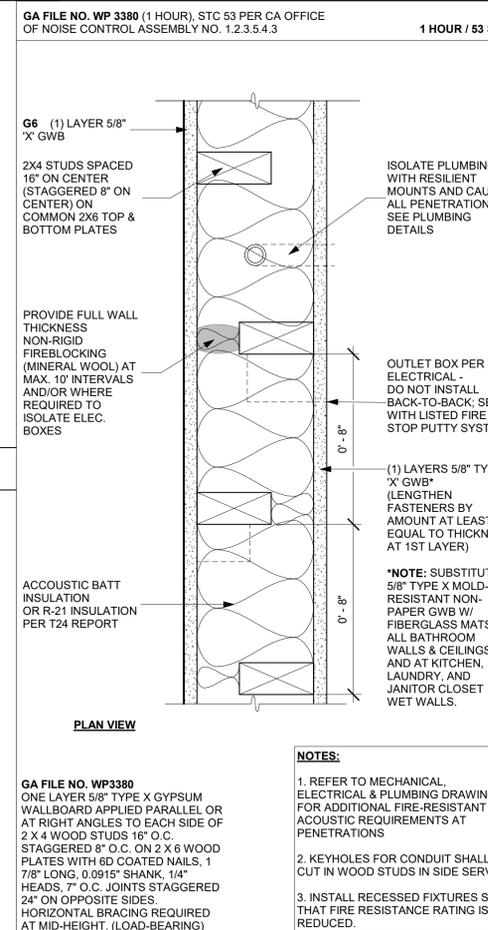
**F** INTERIOR FURRED AT RACQUETBALL  
SCALE: 3" = 1'-0"



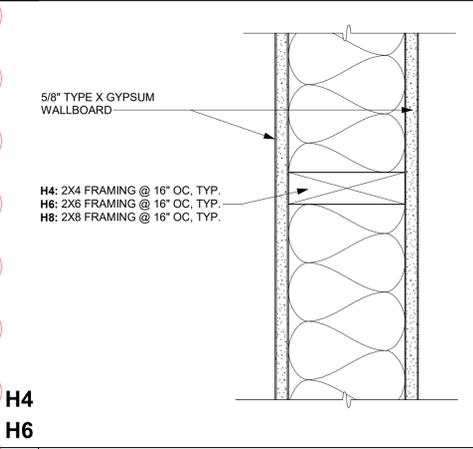
**42** ROOF ASSEMBLY @ 2X12  
SCALE: 1 1/2" = 1'-0"



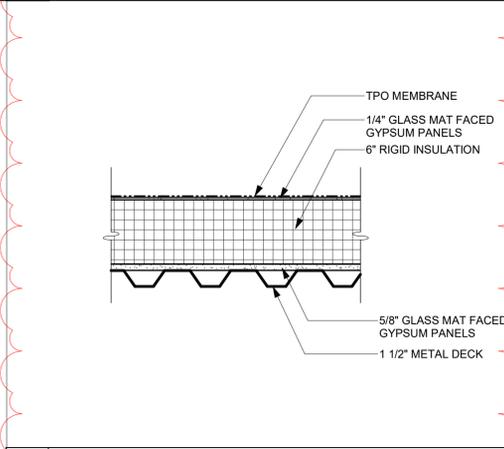
**B2** EXTERIOR WALL - FIBER CEMENT PANEL  
SCALE: 3" = 1'-0"



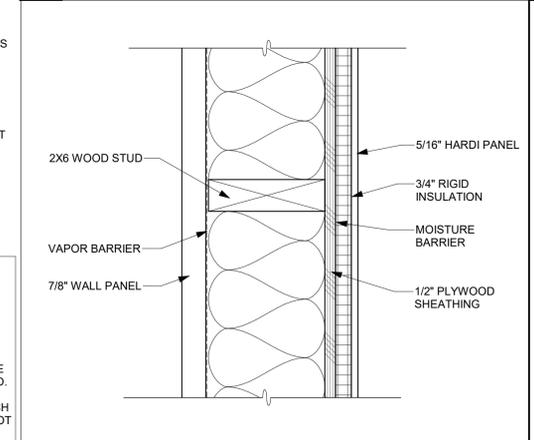
**G6** PARTY WALL STAGGERED STUD  
SCALE: 3" = 1'-0"



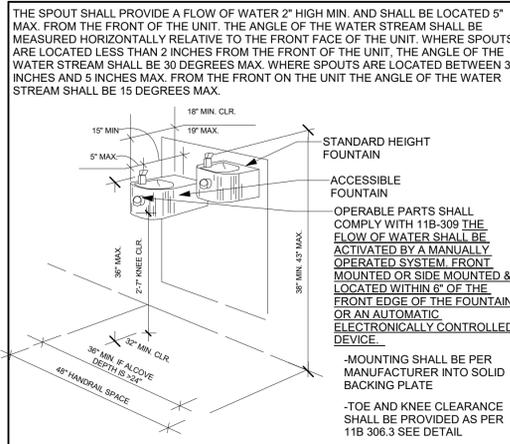
**H4**  
**H6** FIRE PARTITION WALL 1 HR  
SCALE: 3" = 1'-0"



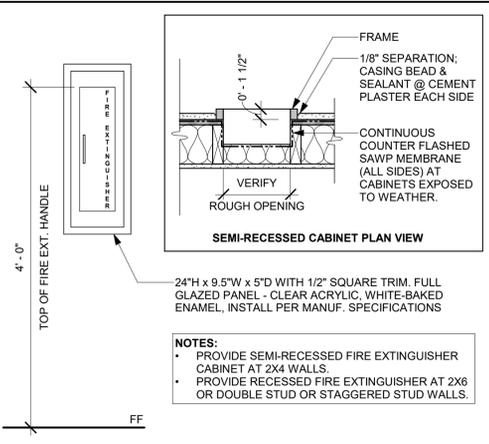
**43** GYM ROOF ASSEMBLY  
SCALE: 1 1/2" = 1'-0"



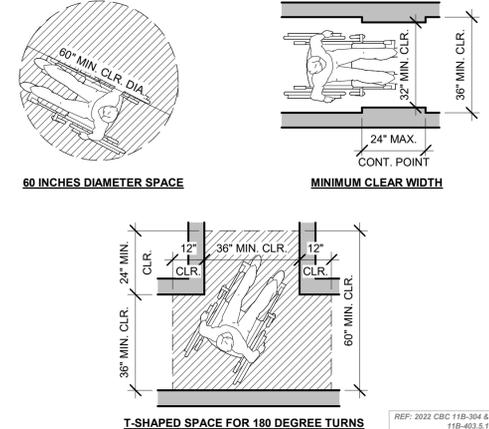
**B3** EXTERIOR WALL - FIBER CEMENT PANEL  
SCALE: 3" = 1'-0"



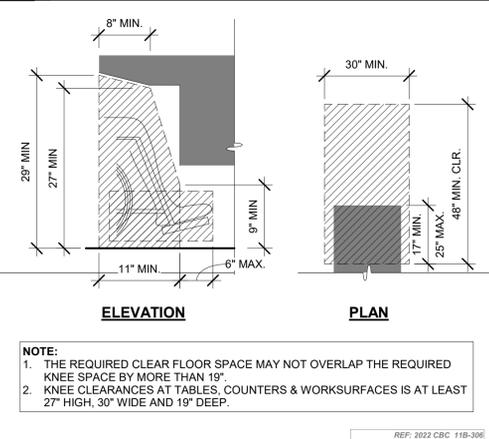
**51 HI-LO DRINKING FOUNTAIN**  
SCALE: 3" = 1'-0"  
REF 11B 602



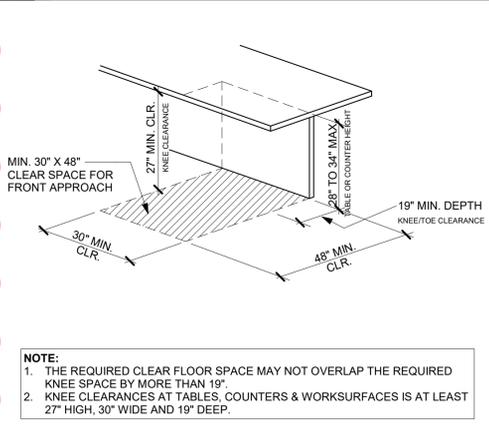
**41 ACC. FIRE EXTINGUISHER CABINET**  
NTS



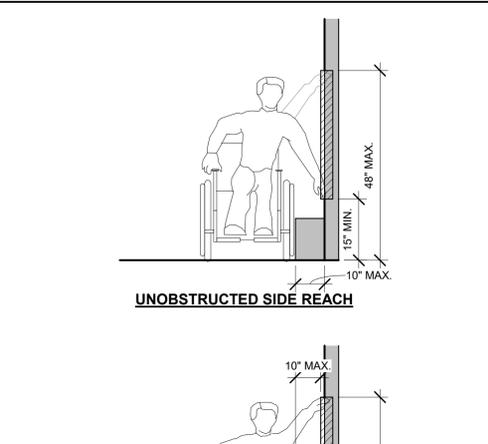
**42 TURNING SPACE**  
SCALE: 3/8" = 1'-0"



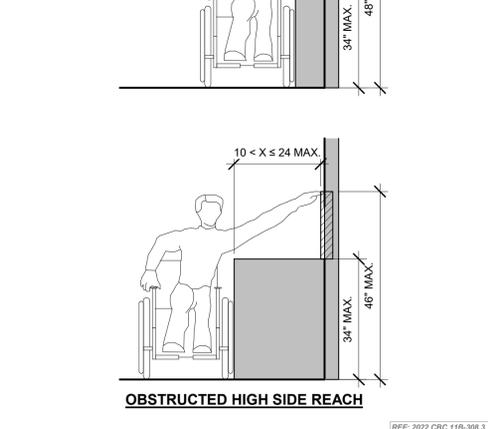
**43 TOE & KNEE CLEARANCES**  
SCALE: 3" = 1'-0"



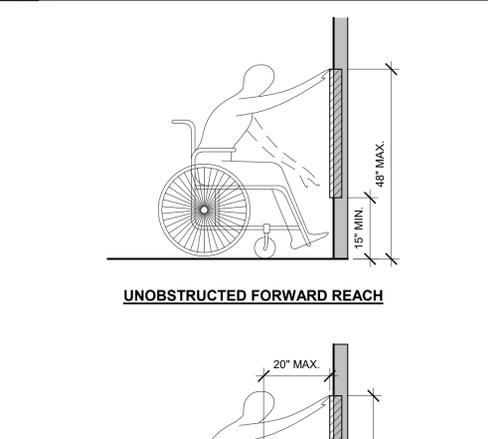
**44 COUNTERTOP CLEARANCES**  
SCALE: 3" = 1'-0"



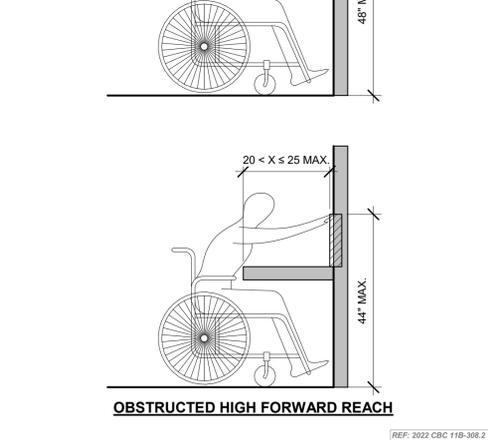
**32 ACC. SIDE REACH**  
NTS



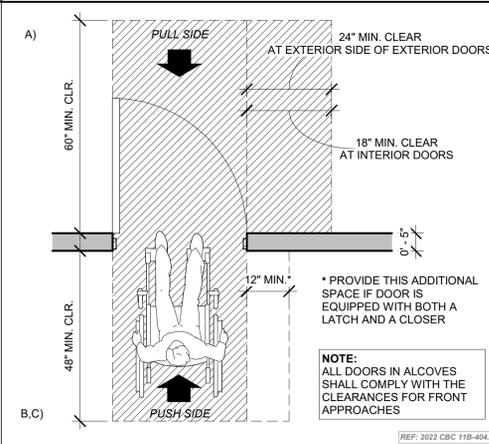
**33 ACC. FORWARD REACH**  
NTS



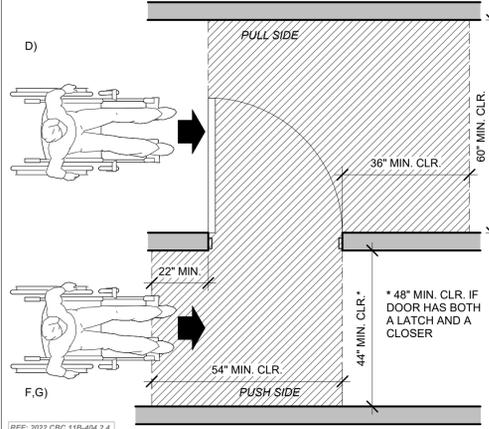
**34 ACC. FORWARD REACH**  
NTS



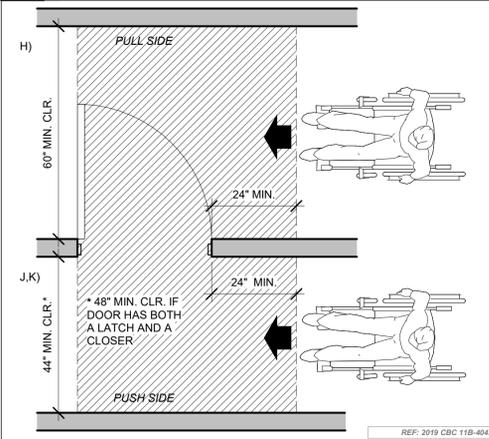
**34 ACC. FORWARD REACH**  
NTS



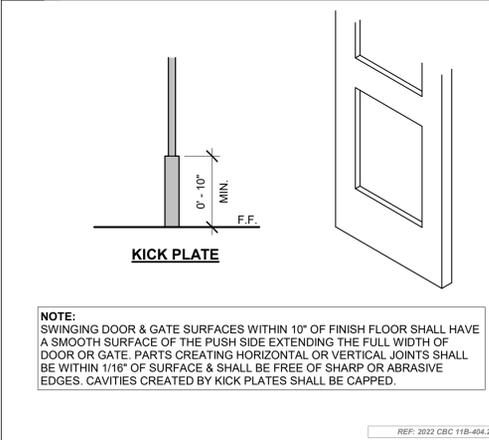
**21 FRONT APPROACH CLEARANCES**  
SCALE: 1/2" = 1'-0"



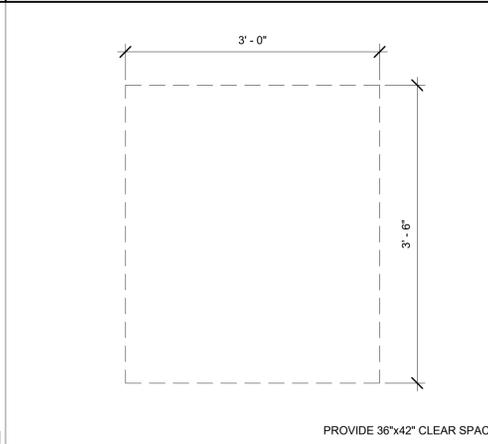
**22 HINGE APPROACH CLEARANCES**  
SCALE: 1/2" = 1'-0"



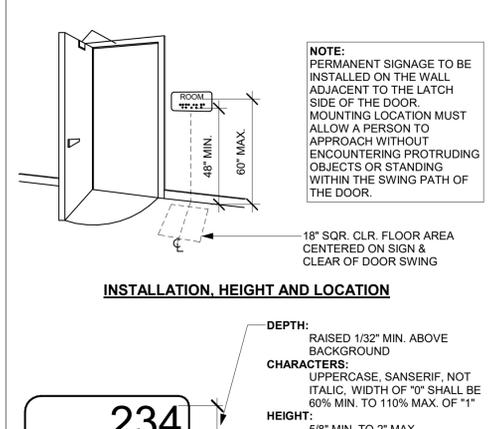
**23 LATCH APPROACH CLEARANCES**  
SCALE: 1/2" = 1'-0"



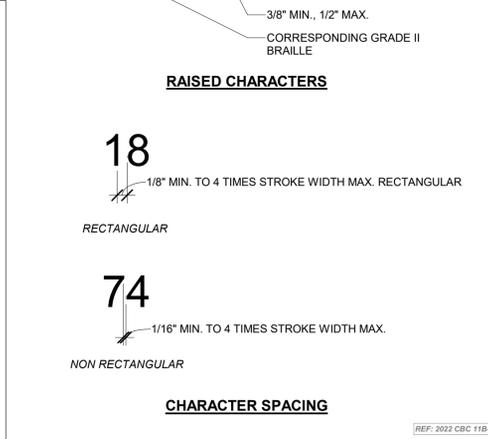
**24 ACC. DOOR KICK PLATE**  
NTS



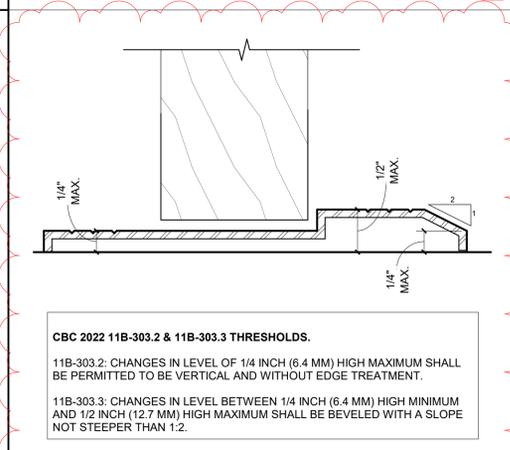
**11 ACC. SEATING SPACE**  
SCALE: 1" = 1'-0"



**13 ACC. ROOM SIGNAGE**  
NTS



**14 ACC. DOOR REQUIREMENTS**  
NTS



**54 DOOR THRESHOLD**  
NTS



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**FOURTH ST COMMUNITY CENTER AND PARK**  
HENDERSON AVE., PORTERVILLE, CA 93257  
ACCESSIBILITY DETAILS - CLEARANCES

NO.	REVISION	DATE
△	PLAN CHECK REVISION 1	05/17/24
△	ADDENDUM 6	12/13/24
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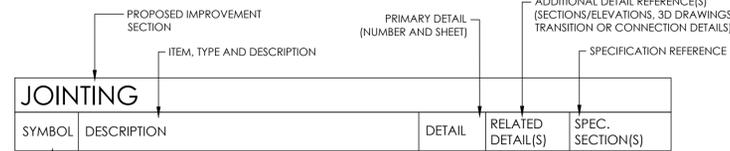
PROJECT MANAGER: TSL  
DRAWN BY: MC, NA, PM  
CHECKED BY: DD, KF  
DATE: 2024.12.20  
PROJECT NUMBER: 2883-01-RC22  
SHEET: A941

PLAN CHECK REVISION 2

12/23/2024 4:48:29 PM Autodesk Docs:\2883-01\_Porterville Fourth St Community Center\2883-01-RC22\_Porterville\_v22.rvt

# KEY TO MASTER CONSTRUCTION SCHEDULE

THE MASTER CONSTRUCTION SCHEDULE LISTS THE PROPOSED IMPROVEMENTS REQUIRED TO CONSTRUCT THE PROJECT. WHILE THE LIST IS COMPREHENSIVE, WE DO NOT REPRESENT THAT IT INCLUDES ALL ELEMENTS NEEDED TO CONSTRUCT THE PROJECT. THE INFORMATION BELOW IS FOR THE CONVENIENCE OF THE CONTRACTOR ONLY.



KEYNOTE SYMBOLS ARE REPRESENTED ON THE PLANS WITH A KEYNOTE CALLOUT. IF SYMBOL IS BLANK, REFER TO DETAIL CALLOUT ON THE PLANS. KEYNOTE CALLOUT: [Symbol] DETAIL CALLOUT: [Symbol]

X = DETAIL NUMBER  
Y = PAGE NUMBER

THE FOLLOWING LIST OF PROPOSED IMPROVEMENT SECTIONS HAVE BEEN INCORPORATED WITHIN THIS DRAWING SET:

- |                               |                                 |
|-------------------------------|---------------------------------|
| PA PAVING AND SURFACING       | UT UNDERGROUND UTILITIES        |
| JO JOINTING                   | LI SITE LIGHTING AND ELECTRICAL |
| SR STAIRS AND RAMPS           | SI SIGNAGE AND STRIPING         |
| WC WALLS AND CURBS            | PE PLAY EQUIPMENT               |
| SF SITE FURNISHINGS           | FI FITNESS EQUIPMENT            |
| FR FENCES, RAILINGS AND GATES | MI MISCELLANEOUS                |
| SS SITE STRUCTURES            | SP SPECIALTY                    |
| DR DRAINAGE AND BIO-RETENTION | EX EXISTING TO REMAIN           |
| PL PLANTING AND IRRIGATION    |                                 |

## FOURTH ST. PARK MASTER CONSTRUCTION SCHEDULE

### PAVING AND SURFACING (PA)

CODE	DESCRIPTION	DETAIL	RELATED DETAIL(S)	SPEC. SECTION(S)
PA-01	SIDEWALK CONSTRUCTION		C-7/CC505 24/CC501	
PA-02	ASHPALT CONCRETE PAVING		32/CC501	
PA-03	ASHPALT PAVING AT PUMP TRACK		1/PT-6.0	
PA-04	ENGINEERED WOOD FIBER	2/LC501		32 1813.13
PA-05	POURED-IN-PLACE RUBBER SURFACING COLORS: SEE SPECS	4/LC501		32 1813.13
PA-06	SYNTHETIC TURF	3/LC501		32 1813
PA-07	STABILIZED DECOMPOSED GRANITE COLOR: CALIFORNIA GOLD	1/LC501		32 1453
PA-08	TACTILE WARNING MAT		13/CC502	

### JOINTING (JO)

CODE	DESCRIPTION	DETAIL	RELATED DETAIL(S)	SPEC. SECTION(S)
JO-01	EXPANSION JOINT		31/CC501	
JO-02	CONTROL JOINT		21/CC501	

### STAIRS AND RAMPS (SR)

CODE	DESCRIPTION	DETAIL	RELATED DETAIL(S)	SPEC. SECTION(S)
SR-01	PARALLEL CURB RAMP		33/CC502	
SR-02	ACCESSIBILITY RAMP		14/CC502	
SR-03	ACCESS RAMP AT PLAYGROUND	1/LC503		
SR-04	SWITCHBACK RAMP	3/LC502		
SR-05	STAIRS	6/LC502		

### WALLS AND CURBS (WC)

CODE	DESCRIPTION	DETAIL	RELATED DETAIL(S)	SPEC. SECTION(S)
WC-01	CONCRETE SEAT WALL	1/LC502		
WC-02	CONCRETE RETAINING WALL AT TERRACE	4/LC502		
WC-03	TERRACE WALLS	4/LC502		
WC-04	FLUSH CURB AT DECOMPOSED GRANITE	5/LC501		
WC-05	CONCRETE CURB AND GUTTER		41/CC501	
WC-06	PLAY CURB	6/LC501		
WC-07	MOW CURB	9/LC501		
WC-08	MINI-PITCH CONCRETE PERIMETER	4/LC503		

### SITE FURNISHINGS (SF)

CODE	DESCRIPTION	DETAIL	RELATED DETAIL(S)	SPEC. SECTION(S)
SF-01	BENCH TYPE 1: BACKED BENCH		SEE SPECS	32 3300
SF-02	BENCH TYPE 2: BACKLESS BENCH		SEE SPECS	32 3300
SF-03	6FT RECTANGULAR PICNIC TABLE	6/LC503	SEE SPECS	32 3300
SF-04	6FT RECTANGULAR ACCESSIBLE PICNIC TABLE ONE SIDE	6/LC503	SEE SPECS	32 3300
SF-05	6FT TABLE BENCH COMBO		SEE SPECS	32 3300
SF-06	8FT RECTANGULAR PICNIC TABLE		SEE SPECS	32 3300
SF-07	8FT RECTANGULAR ACCESSIBLE PICNIC TABLE		SEE SPECS	32 3300
SF-08	BIKE RACK		SEE SPECS	32 3300
SF-09	BIKE FIXIT STATION		SEE SPECS	32 3300
SF-10	WASTE & RECYCLING RECEPTACLE		SEE SPECS	32 3300
SF-11	PEDESTAL BOTTLE FILLER/DRINK FOUNTAIN		SEE SPECS	32 3300
SF-12	BOLLARD LIGHTING		SEE SPECS	

### FENCES, RAILINGS, AND GATES (FR)

CODE	DESCRIPTION	DETAIL	RELATED DETAIL(S)	SPEC. SECTION(S)
FR-01	WOOD RAIL FENCE	2/LC503		
FR-02	MINI PITCH FENCE		SEE SPECS	11 6833
FR-03	STAIR HANDRAIL FINISH: GALVINIZED	5/LC502		
FR-04	RAMP HANDRAIL FINISH: GALVINIZED	7/LC502		

### SITE STRUCTURES (SS)

CODE	DESCRIPTION	DETAIL	RELATED DETAIL(S)	SPEC. SECTION(S)
SS-01	SHADE STRUCTURE AT MINI PITCH		SEE SPECS	13 3000
SS-02	CANTILEVERED SHADE STRUCTURE AT PICNIC & SPLASHPAD		SEE SPECS	13 3000
SS-03	SHADE STRUCTURE AT CHALLENGE COURSE		SEE SPECS	13 3100
SS-04	SHADE STRUCTURE AT PUMP TRACK		SEE SPECS	13 3000
SS-05	TRELLIS SEE 09.9000E/A101 AND S-221		H/S-403	

### DRAINAGE AND BIO-RETENTION (DR)

CODE	DESCRIPTION	DETAIL	RELATED DETAIL(S)	SPEC. SECTION(S)
DR-01	BIORETENTION AREA		34/CC503	
DR-02	CATCH BASIN		D-5.CC507	
DR-03	DRAIN INLET		12/CC504 13/CC504 21/CC504 32/CC504 42/CC504	
DR-04	ENERGY DISSIPATION DEVICE		13/CC503	

### PLANTING AND IRRIGATION (PL)

CODE	DESCRIPTION	DETAIL	RELATED DETAIL(S)	SPEC. SECTION(S)
PL-01	PLANIER AREA SEE LP101-110 AND LI101-110			32 9300
PL-02	TURF AREA SEE LP101-110 AND LI101-110			32 9300

### UNDERGROUND UTILITIES (UT)

CODE	DESCRIPTION	DETAIL	RELATED DETAIL(S)	SPEC. SECTION(S)
UT-01	REFER TO SHEET CU100 FOR UNDERGROUND UTILITY DETAILS			
UT-02	FDC CONNECTION		22/CC502	
UT-03	FIRE HYDRANT		W8.1/CC508	
UT-04	8" DOUBLE CHECK DETECTOR ASSEMBLY		W-12/CC508	
UT-05	4" DOMESTIC WATER BACKFLOW PREVENTER			

### SITE LIGHTING AND ELECTRICAL (LI)

CODE	DESCRIPTION	DETAIL	RELATED DETAIL(S)	SPEC. SECTION(S)
LI-01	POLE LIGHT SEE EG101			
LI-02	EV CHARGING STATION SEE SHEET ES102			
LI-03	FUTURE SCE LIGHT POLE CONDUIT AND HANDPULLS TO BE PROVIDED BY CONTRACTOR. CITY TO COORDINATE POLE INSTALL WITH SCE.			
LI-04	S.C.E. UTILITY TRANSFORMER SEE 12/ES102			

### SIGNAGE AND STRIPING (SI)

CODE	DESCRIPTION	DETAIL	RELATED DETAIL(S)	SPEC. SECTION(S)
SI-01	ENTRY MONUMENT SIGNAGE	5/LC503		
SI-02	RECYCLED WATER SIGN	7/LC503		
SI-03	SIGNAGE SEE CH101-CH103			
SI-04	PARKING SPACE STRIPING SEE CH101-CH103			
SI-05	ACCESSIBLE PARKING SPACE STRIPING SEE CH101-CH103			
SI-06	ACCESSIBLE EV PARKING SPACE STRIPING		32/CC503	
SI-07	EV PARKING SPACE MARKING		32/CC503	
SI-08	UNAUTHORIZED VEHICLE SIGN		42/CC502	

### PLAY EQUIPMENT (PE)

CODE	DESCRIPTION	DETAIL	RELATED DETAIL(S)	SPEC. SECTION(S)
PE-01	ACCESSIBLE PLAY STRUCTURE		SEE SPECS	11 6813
PE-02	SAUCER SWING		SEE SPECS	11 6813

### FITNESS/ATHLETIC EQUIPMENT (FI)

CODE	DESCRIPTION	DETAIL	RELATED DETAIL(S)	SPEC. SECTION(S)
FI-01	CHALLENGE COURSE OBSTACLE 1 FLOATING BOARDS		SEE SPECS	11 6813
FI-02	CHALLENGE COURSE OBSTACLE 2 NINJA STEPS		SEE SPECS	11 6813
FI-03	CHALLENGE COURSE OBSTACLE 3 AGILITY TRAINERS		SEE SPECS	11 6813
FI-04	CHALLENGE COURSE OBSTACLE 4 SWAY STEPS		SEE SPECS	11 6813
FI-05	CHALLENGE COURSE OBSTACLE 5 VAULT WALL		SEE SPECS	11 6813
FI-06	CHALLENGE COURSE OBSTACLE 6 TRAVERSE WALL		SEE SPECS	11 6813
FI-07	CHALLENGE COURSE OBSTACLE 7 U-TURN RAMP		SEE SPECS	11 6813
FI-09	PAGOSA CLIMBING BOULDER		SEE SPECS	11 6813
FI-10	STEPPER W/ ADJUSTABLE RESISTANCE UBX272	10/LC501	SEE SPECS	11 6813
FI-11	BENCH PRESS W/ ADJUSTABLE RESISTANCE UBX293	10/LC501	SEE SPECS	11 6813
FI-12	ROWER W/ ADJUSTABLE RESISTANCE UBX290	10/LC501	SEE SPECS	11 6813
FI-13	ARM CURL W/ ADJUSTABLE RESISTANCE UBX255	10/LC501	SEE SPECS	11 6813
FI-14	SIT UP BENCH UBX223	10/LC501	SEE SPECS	11 6813

### MISCELLANEOUS (MI)

CODE	DESCRIPTION	DETAIL	RELATED DETAIL(S)	SPEC. SECTION(S)
MI-01	LANDSCAPE BOULDER	3/LC503		32 4000
MI-02	LANDSCAPE BARRIER CURB		12/CC501	

### SPECIALTY (SP)

CODE	DESCRIPTION	DETAIL	RELATED DETAIL(S)	SPEC. SECTION(S)
SP-01	TRASH ENCLOSURE		RR-2/CC506 AS102	07 4000
SP-02	SPLASH PAD SEE SPLASHPAD DRAWINGS FOR DETAILS			13 1400
SP-03	SPLASHPAD SUBSURFACE RESERVOIR SEE SPLASHPAD AND IRRIGATION DRAWINGS FOR DETAILS			13 1400
SP-04	FLUSH ACCESSIBLE LOCKABLE DOOR SEE SPLASHPAD DRAWINGS FOR DETAILS			13 1400
SP-05	SPLASH PAD MANIFOLD CABINET		SP-PD-001	
SP-06	MINI PITCH KIT		SEE SPECS	11 6833
SP-07	BIKE PUMP TRACK SEE PT-SERIES SHEETS FOR DETAILS			32 1801 32 2001

### EXISTING TO REMAIN

CODE	DESCRIPTION	DETAIL
EX-01	FIRE SERVICE, PROTECT IN PLACE SEE CG101	
EX-02	4" DOMESTIC BACKFLOW PREVENTER, PROTECT IN PLACE SEE CU101	
EX-03	2" IRRIGATION METER, PROTECT IN PLACE SEE LI101	
EX-04	FIRE HYDRANT, PROTECT IN PLACE SEE CG101	
EX-05	FENCING, PROTECT IN PLACE	
EX-06	TREE, VARIOUS SIZES, PROTECT IN PLACE	
EX-07	TRAIL, PROTECT IN PLACE	
EX-08	BIKE PATH SIGN, PROTECT IN PLACE	
EX-09	UTILITY POLE AND LINES, PROTECT IN PLACE	



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**FOURTH ST COMMUNITY CENTER AND PARK**  
HENDERSON AVE., PORTERVILLE, CA 93257  
**CONSTRUCTION NOTES AND SCHEDULE**

NO.	REVISION	DATE
△	ADDENDUM 6	12/20/24
△		
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PROJECT MANAGER  
LW  
DRAWN BY  
DK  
CHECKED BY  
LW  
DATE  
2024.09.19  
PROJECT NUMBER  
2883-01-RC22  
SHEET  
LC001

PLAN CHECK REVISION 2

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COMMUNITY CENTER  
EXISTING BIKE PATH

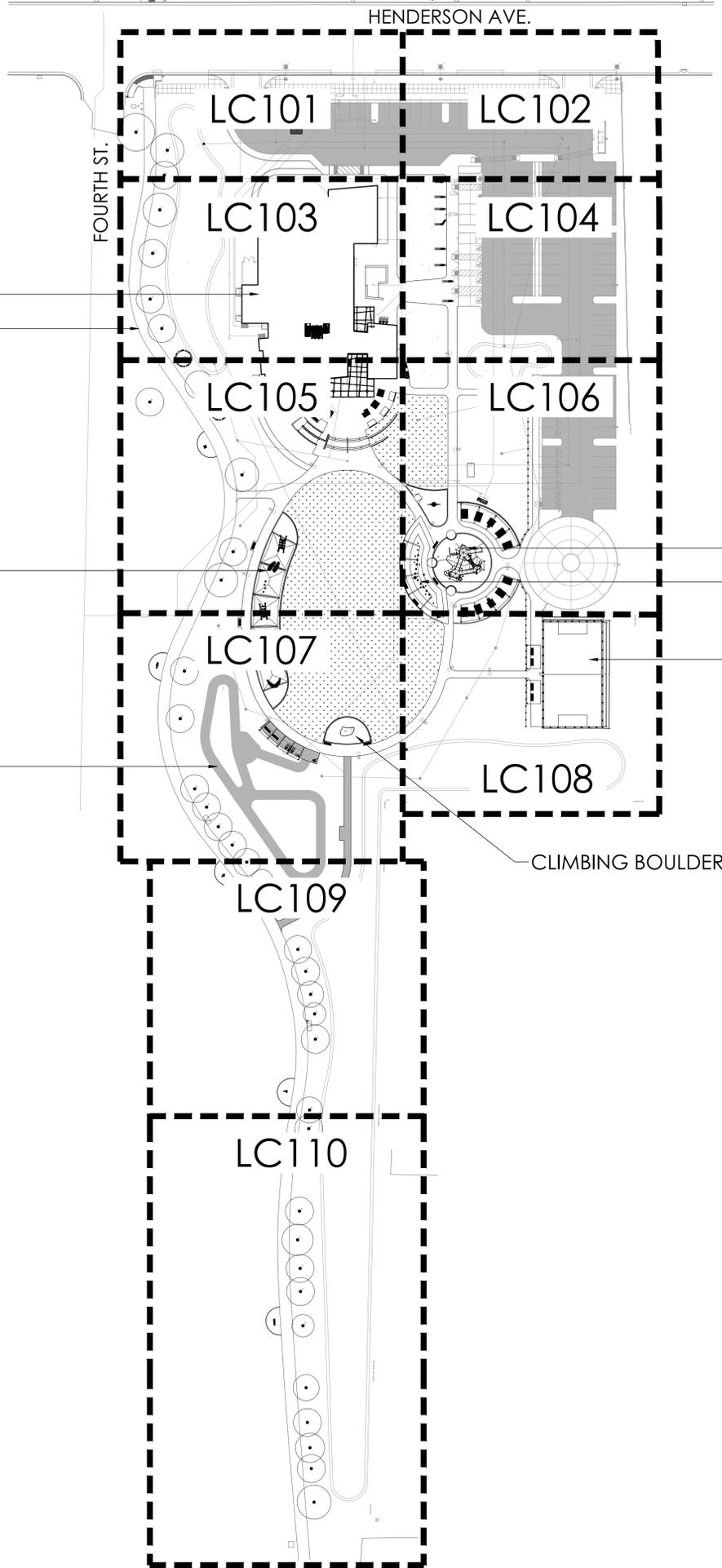
CHALLENGE  
COURSE

PUMP TRACK

PLAY AREA  
SPLASHPAD

MINI PITCH

CLIMBING BOULDER



PLAN CHECK REVISION 2



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**FOURTH ST COMMUNITY  
CENTER AND PARK**  
SITE REFERENCE PLAN  
AND KEY MAP

HENDERSON AVE., PORTERVILLE, CA 93257

NO.	REVISION	DATE
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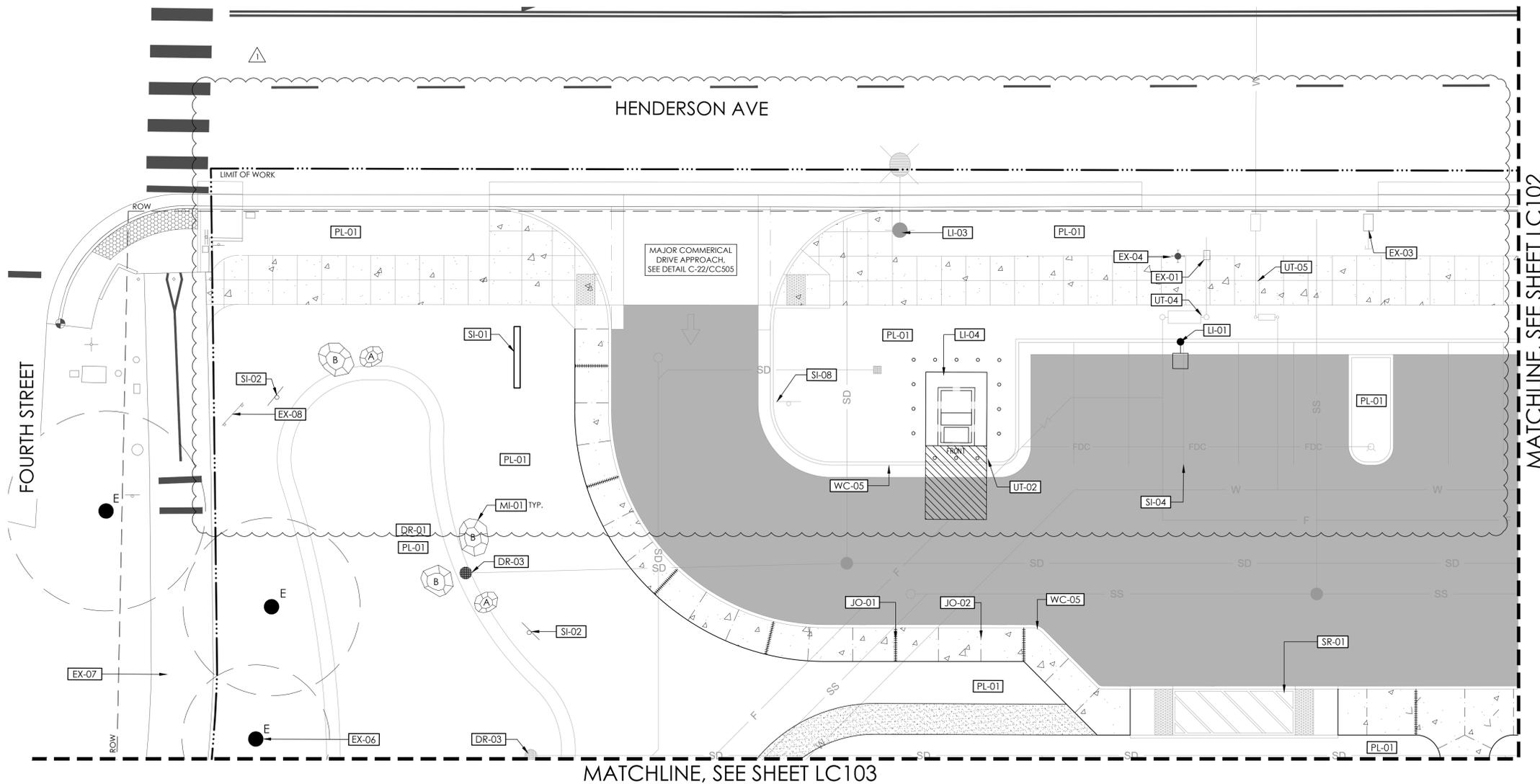
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DATE  
2024.09.19  
PROJECT NUMBER  
2883-01-RC22  
SHEET

LC100



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MATCHLINE, SEE SHEET LC102

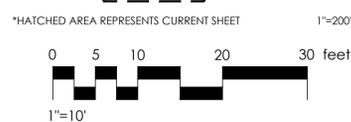
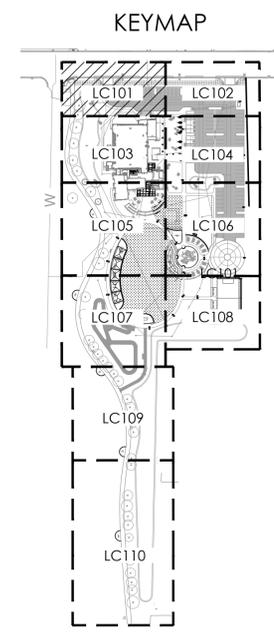
MATCHLINE, SEE SHEET LC103

**CONSTRUCTION SCHEDULE - LC101**

PAVING AND SURFACING (PA)		
CODE	DESCRIPTION	DETAIL
AS	SIDEWALK CONSTRUCTION	
AC	ASHPALT CONCRETE PAVING	
SD	STABILIZED DECOMPOSED GRANITE COLOR: CALIFORNIA GOLD	1/LC501
TM	TACTILE WARNING MAT	
JOINTING (JO)		
CODE	DESCRIPTION	DETAIL
JO-01	EXPANSION JOINT	
JO-02	CONTROL JOINT	
STAIRS AND RAMPS (SR)		
CODE	DESCRIPTION	DETAIL
SR-01	PARALLEL CURB RAMP	
WALLS AND CURBS (WC)		
CODE	DESCRIPTION	DETAIL
WC-05	CONCRETE CURB AND GUTTER	
DRAINAGE AND BIO-RETENTION (DR)		
CODE	DESCRIPTION	DETAIL
DR-01	BIORETENTION AREA	
DR-03	DRAIN INLET	

PLANTING AND IRRIGATION (PL)		
CODE	DESCRIPTION	DETAIL
PL-01	PLANTER AREA SEE LP101-110 AND LI101-110	
UNDERGROUND UTILITIES (UT)		
CODE	DESCRIPTION	DETAIL
UT-02	FDC CONNECTION	
UT-04	8" DOUBLE CHECK DETECTOR ASSEMBLY	
UT-05	4" DOMESTIC WATER BACKFLOW PREVENTER	
SITE LIGHTING AND ELECTRICAL (LI)		
CODE	DESCRIPTION	DETAIL
LI-01	POLE LIGHT SEE EG 101	
LI-03	FUTURE SCE LIGHT POLE CONDUIT AND HANDPULLS TO BE PROVIDED BY CONTRACTOR. CITY TO COORDINATE POLE INSTALL WITH SCE.	
LI-04	S.C.E. UTILITY TRANSFORMER SEE 12/ES102	

SIGNAGE AND STRIPING (SI)		
CODE	DESCRIPTION	DETAIL
SI-01	ENTRY MONUMENT SIGNAGE	5/LC503
SI-02	RECYCLED WATER SIGN	7/LC503
SI-04	PARKING SPACE STRIPING SEE CH101-CH103	
SI-08	UNAUTHORIZED VEHICLE SIGN	
EXISTING TO REMAIN (EX)		
CODE	DESCRIPTION	DETAIL
EX-01	FIRE SERVICE, PROTECT IN PLACE SEE CG 101	
EX-03	2" IRRIGATION METER, PROTECT IN PLACE SEE LI101	
EX-04	FIRE HYDRANT, PROTECT IN PLACE SEE CG 101	
EX-06	TREE, VARIOUS SIZES, PROTECT IN PLACE	
EX-07	TRAIL, PROTECT IN PLACE	
EX-08	BIKE PATH SIGN, PROTECT IN PLACE	
MISCELLANEOUS (MI)		
CODE	DESCRIPTION	DETAIL
MI-01	LANDSCAPE BOULDER	3/LC503



**FOURTH ST COMMUNITY CENTER AND PARK**  
HENDERSON AVE., PORTERVILLE, CA 93257  
**CONSTRUCTION PLAN**

NO.	REVISION	DATE
△	PLAN CHECK REVISION 1	5/17/24
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PROJECT MANAGER  
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DRAWN BY DK  
CHECKED BY LW  
DATE 2024.09.19  
PROJECT NUMBER 2883-01-RC22  
SHEET **LC101**

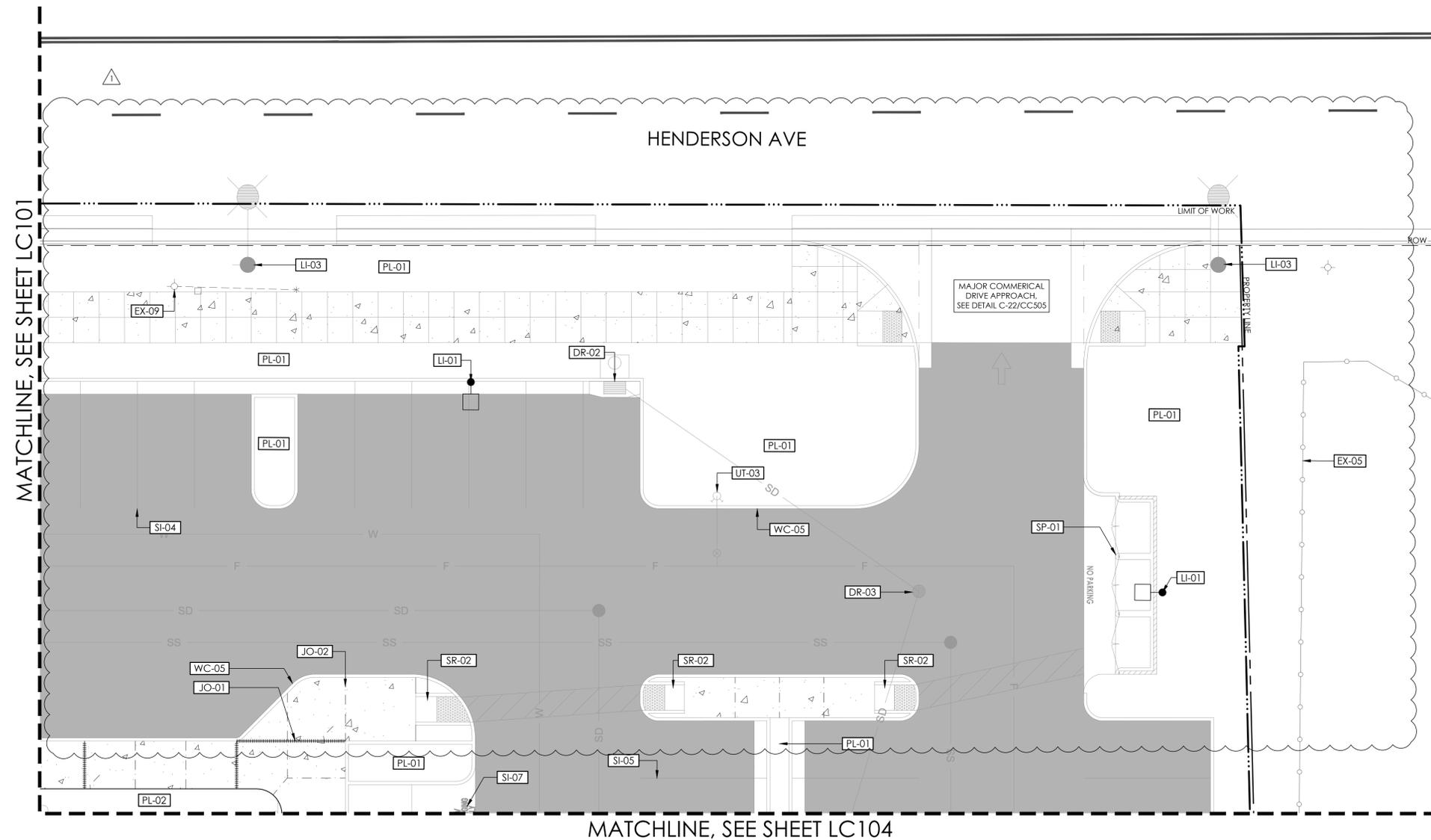
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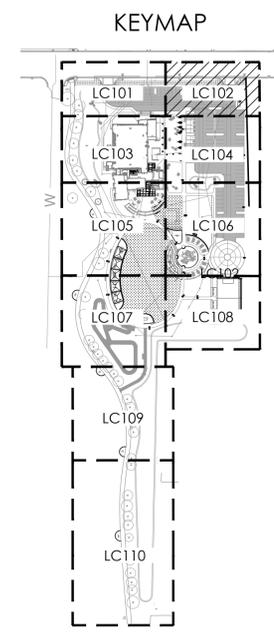
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AGENCY



MATCHLINE, SEE SHEET LC101

MATCHLINE, SEE SHEET LC104

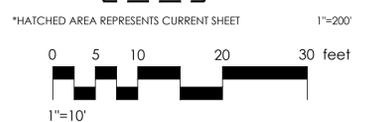


**CONSTRUCTION SCHEDULE - LC102**

PAVING AND SURFACING (PA)		
CODE	DESCRIPTION	DETAIL
PA-01	SIDEWALK CONSTRUCTION	
PA-02	ASHPALT CONCRETE PAVING	
PA-03	STABILIZED DECOMPOSED GRANITE COLOR: CALIFORNIA GOLD	1/LC501
PA-04	TACTILE WARNING MAT	
JOINTING (JO)		
CODE	DESCRIPTION	DETAIL
JO-01	EXPANSION JOINT	
JO-02	CONTROL JOINT	
STAIRS AND RAMPS (SR)		
CODE	DESCRIPTION	DETAIL
SR-02	ACCESSIBILITY RAMP	
WALLS AND CURBS (WC)		
CODE	DESCRIPTION	DETAIL
WC-05	CONCRETE CURB AND GUTTER	
DRAINAGE AND BIO-RETENTION (DR)		
CODE	DESCRIPTION	DETAIL
DR-02	CATCH BASIN	
DR-03	DRAIN INLET	

PLANTING AND IRRIGATION (PL)		
CODE	DESCRIPTION	DETAIL
PL-01	PLANTER AREA SEE LP101-110 AND LI101-110	
PL-02	TURF AREA SEE LP101-110 AND LI101-110	
UNDERGROUND UTILITIES (UT)		
CODE	DESCRIPTION	DETAIL
UT-03	FIRE HYDRANT	
SITE LIGHTING AND ELECTRICAL (LI)		
CODE	DESCRIPTION	DETAIL
LI-01	POLE LIGHT SEE EG 101	
LI-03	FUTURE SCE LIGHT POLE CONDUIT AND HANDPULLS TO BE PROVIDED BY CONTRACTOR. CITY TO COORDINATE POLE INSTALL WITH SCE.	
SIGNAGE AND STRIPING (SI)		
CODE	DESCRIPTION	DETAIL
SI-04	PARKING SPACE STRIPING SEE CH101-CH103	
SI-05	ACCESSIBLE PARKING SPACE STRIPING SEE CH101-CH103	
SI-07	EV PARKING SPACE MARKING	

SPECIALTY (SP)		
CODE	DESCRIPTION	DETAIL
SP-01	TRASH ENCLOSURE	
EXISTING TO REMAIN (EX)		
CODE	DESCRIPTION	DETAIL
EX-05	FENCING, PROTECT IN PLACE	
EX-09	UTILITY POLE AND LINES, PROTECT IN PLACE	



**FOURTH ST COMMUNITY  
CENTER AND PARK**  
HENDERSON AVE., PORTERVILLE, CA 93257  
CONSTRUCTION PLAN

NO.	REVISION	DATE
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PROJECT MANAGER  
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DATE  
2024.09.19  
PROJECT NUMBER  
2883-01-RC22  
SHEET  
**LC102**

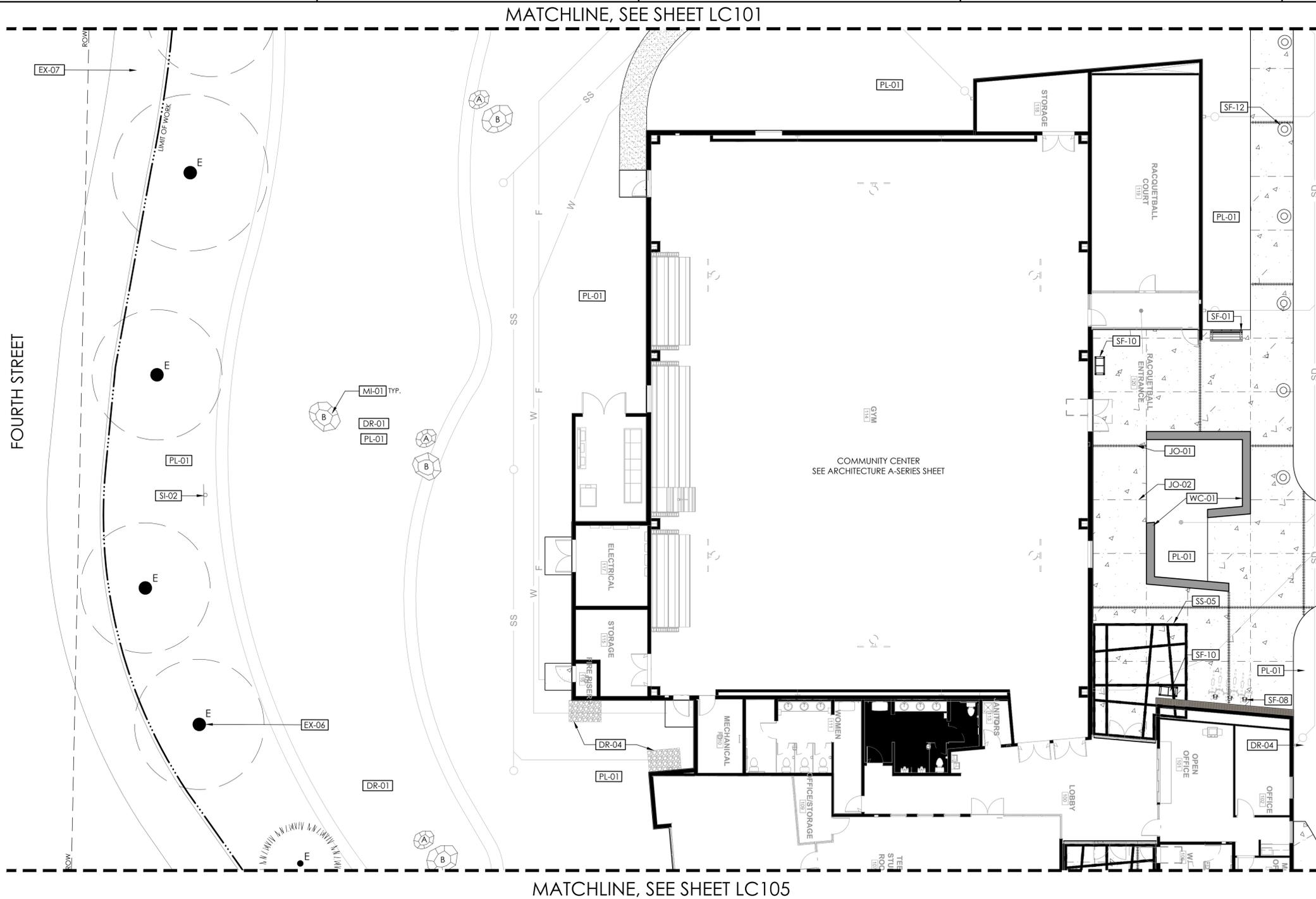
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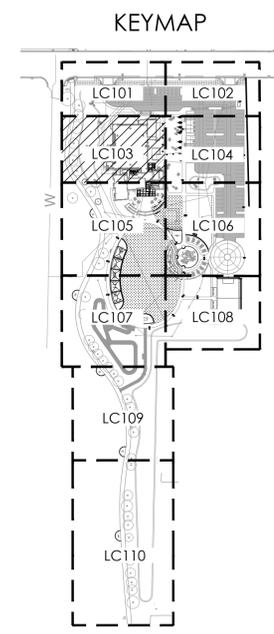
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MATCHLINE, SEE SHEET LC104

FOURTH STREET



\*HATCHED AREA REPRESENTS CURRENT SHEET  
1"=200'  
0 5 10 20 30 feet  
1"=10'

**CONSTRUCTION SCHEDULE - LC103**

PAVING AND SURFACING (PA)		
CODE	DESCRIPTION	DETAIL
PA-01	SIDEWALK CONSTRUCTION	
PA-02	STABILIZED DECOMPOSED GRANITE COLOR: CALIFORNIA GOLD	1/LC501
JOINTING (JO)		
CODE	DESCRIPTION	DETAIL
JO-01	EXPANSION JOINT	
JO-02	CONTROL JOINT	
WALLS AND CURBS (WC)		
CODE	DESCRIPTION	DETAIL
WC-01	CONCRETE SEAT WALL	1/LC502
SITE FURNISHINGS (SF)		
CODE	DESCRIPTION	DETAIL
SF-01	BENCH TYPE 1: BACKED BENCH	
SF-08	BIKE RACK	
SF-10	WASTE & RECYCLING RECEPTACLE	
SF-12	BOLLARD LIGHTING	

DRAINAGE AND BIO-RETENTION (DR)		
CODE	DESCRIPTION	DETAIL
DR-01	BIORETENTION AREA	
DR-04	ENERGY DISSIPATION DEVICE	
PLANTING AND IRRIGATION (PL)		
CODE	DESCRIPTION	DETAIL
PL-01	PLANTER AREA SEE LP101-110 AND LI101-110	
SIGNAGE AND STRIPING (SI)		
CODE	DESCRIPTION	DETAIL
SI-02	RECYCLED WATER SIGN	7/LC503
EXISTING TO REMAIN (EX)		
CODE	DESCRIPTION	DETAIL
EX-06	TREE, VARIOUS SIZES, PROTECT IN PLACE	
EX-07	TRAIL, PROTECT IN PLACE	
MISCELLANEOUS (MI)		
CODE	DESCRIPTION	DETAIL
MI-01	LANDSCAPE BOULDER	3/LC503

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**FOURTH ST COMMUNITY CENTER AND PARK**  
HENDERSON AVE., PORTERVILLE, CA 93257  
**CONSTRUCTION PLAN**

NO.	REVISION	DATE

PROJECT MANAGER  
LW  
DRAWN BY  
DK  
CHECKED BY  
LW  
DATE  
2024.09.19  
PROJECT NUMBER  
2883-01-RC22  
SHEET  
**LC103**

PLAN CHECK REVISION 2



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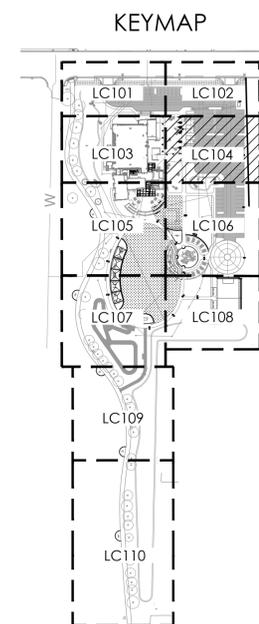
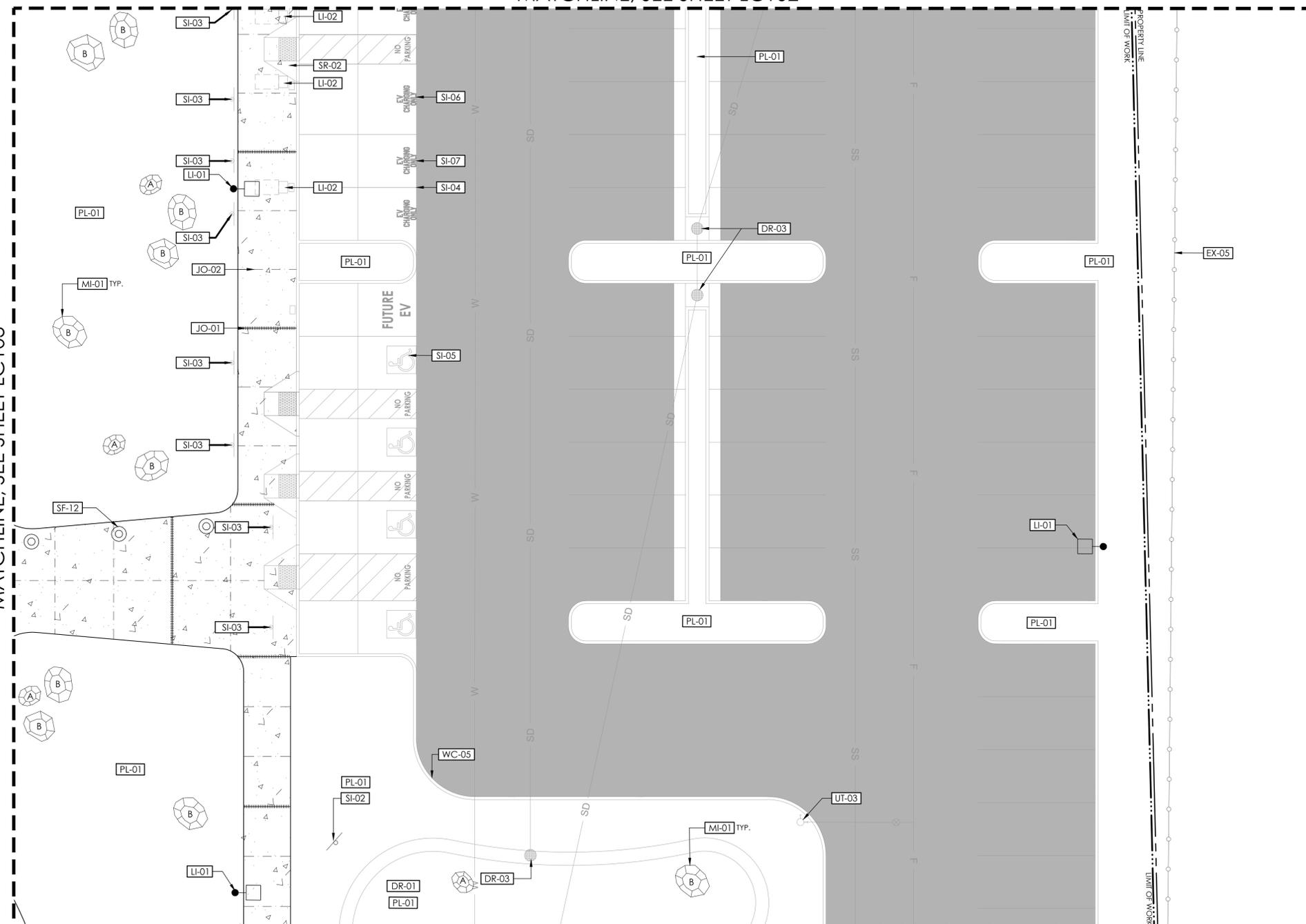
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**FOURTH ST COMMUNITY CENTER AND PARK**  
 HENDERSON AVE., PORTERVILLE, CA 93257  
**CONSTRUCTION PLAN**

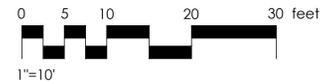
MATCHLINE, SEE SHEET LC103

MATCHLINE, SEE SHEET LC102

MATCHLINE, SEE SHEET LC106



\*HATCHED AREA REPRESENTS CURRENT SHEET 1"=200'



**CONSTRUCTION SCHEDULE - LC104**

PAVING AND SURFACING (PA)		
CODE	DESCRIPTION	DETAIL
PA-01	SIDEWALK CONSTRUCTION	
PA-02	ASHPALT CONCRETE PAVING	
PA-03	TACTILE WARNING MAT	
JOINTING (JO)		
CODE	DESCRIPTION	DETAIL
JO-01	EXPANSION JOINT	
JO-02	CONTROL JOINT	
STAIRS AND RAMPS (SR)		
CODE	DESCRIPTION	DETAIL
SR-02	ACCESSIBILITY RAMP	
WALLS AND CURBS (WC)		
CODE	DESCRIPTION	DETAIL
WC-05	CONCRETE CURB AND GUTTER	

DRAINAGE AND BIO-RETENTION (DR)		
CODE	DESCRIPTION	DETAIL
DR-01	BIORETENTION AREA	
DR-03	DRAIN INLET	
PLANTING AND IRRIGATION (PL)		
CODE	DESCRIPTION	DETAIL
PL-01	PLANTER AREA SEE LP101-110 AND LI101-110	
SITE LIGHTING AND ELECTRICAL (LI)		
CODE	DESCRIPTION	DETAIL
LI-01	POLE LIGHT SEE EG101	
LI-02	EV CHARGING STATION SEE SHEET ES102	

SIGNAGE AND STRIPING (SI)		
CODE	DESCRIPTION	DETAIL
SI-02	RECYCLED WATER SIGN	7/LC503
SI-03	SIGNAGE SEE CH101-CH103	
SI-04	PARKING SPACE STRIPING SEE CH101-CH103	
SI-05	ACCESSIBLE PARKING SPACE STRIPING SEE CH101-CH103	
SI-06	ACCESSIBLE EV PARKING SPACE STRIPING	
SI-07	EV PARKING SPACE MARKING	
EXISTING TO REMAIN (EX)		
CODE	DESCRIPTION	DETAIL
EX-05	FENCING, PROTECT IN PLACE	
MISCELLANEOUS (MI)		
CODE	DESCRIPTION	DETAIL
MI-01	LANDSCAPE BOULDER	3/LC503

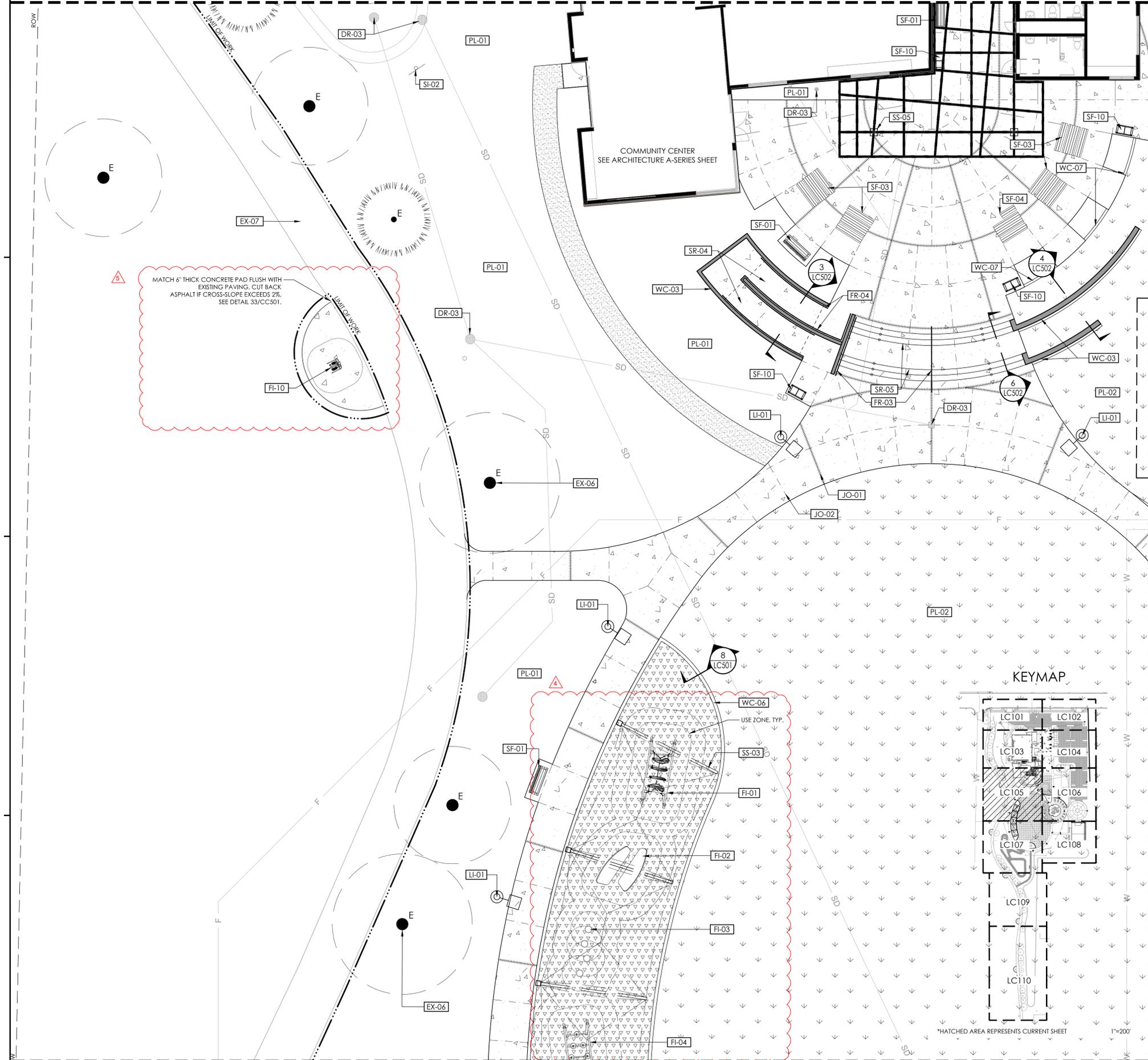
PLAN CHECK REVISION 2

NO.	REVISION	DATE

PROJECT MANAGER  
 LW  
 DRAWN BY  
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 CHECKED BY  
 LW  
 DATE  
 2024.09.19  
 PROJECT NUMBER  
 2883-01-RC22  
 SHEET

**LC104**

MATCHLINE, SEE SHEET LC103



MATCHLINE, SEE SHEET LC107

**CONSTRUCTION SCHEDULE - LC105**

**PAVING AND SURFACING (PA)**

CODE	DESCRIPTION	DETAIL
PA-01	SIDEWALK CONSTRUCTION	
PA-02	SYNTHETIC TURF	3/LC501
PA-03	STABILIZED DECOMPOSED GRANITE COLOR: CALIFORNIA GOLD	1/LC501

**JOINTING (JO)**

SYMBOL	DESCRIPTION	DETAIL
JO-01	EXPANSION JOINT	
JO-02	CONTROL JOINT	

**STAIRS AND RAMPS (SR)**

SYMBOL	DESCRIPTION	DETAIL
SR-04	SWITCHBACK RAMP	3/LC502
SR-05	STAIRS	6/LC502

**WALLS AND CURBS (WC)**

SYMBOL	DESCRIPTION	DETAIL
WC-03	TERRACE WALLS	4/LC502
WC-06	PLAY CURB	6/LC501
WC-07	MOW CURB	9/LC501

**SITE FURNISHINGS (SF)**

SYMBOL	DESCRIPTION	DETAIL
SF-01	BENCH TYPE 1: BACKED BENCH	
SF-03	6FT RECTANGULAR PICNIC TABLE	6/LC503
SF-04	6FT RECTANGULAR ACCESSIBLE PICNIC TABLE ONE SIDE	6/LC503
SF-08	BIKE RACK	
SF-10	WASTE & RECYCLING RECEPTACLE	

**FENCES, RAILINGS, AND GATES (FR)**

SYMBOL	DESCRIPTION	DETAIL
FR-03	STAIR HANDRAIL FINISH: GALVANIZED	5/LC502
FR-04	RAMP HANDRAIL FINISH: GALVANIZED	7/LC502

**SITE STRUCTURES (SS)**

SYMBOL	DESCRIPTION	DETAIL
SS-03	SHADE STRUCTURE AT CHALLENGE COURSE	
SS-05	TRELLIS SEE 09.9000E/A101 AND S-221	

**DRAINAGE AND BIO-RETENTION (DR)**

SYMBOL	DESCRIPTION	DETAIL
DR-03	DRAIN INLET	

**PLANTING AND IRRIGATION (PL)**

SYMBOL	DESCRIPTION	DETAIL
PL-01	PLANTER AREA SEE LP101-110 AND LI101-110	
PL-02	TURF AREA SEE LP101-110 AND LI101-110	

**SIGNAGE AND STRIPING (SI)**

SYMBOL	DESCRIPTION	DETAIL
SI-02	RECYCLED WATER SIGN	7/LC503

**FITNESS/ATHLETIC EQUIPMENT (FI)**

CODE	DESCRIPTION	DETAIL
FI-01	CHALLENGE COURSE OBSTACLE 1 FLOATING BOARDS	
FI-02	CHALLENGE COURSE OBSTACLE 2 NINJA STEPS	
FI-03	CHALLENGE COURSE OBSTACLE 3 AGILITY TRAINERS	
FI-04	CHALLENGE COURSE OBSTACLE 4 SWAY STEPS	
FI-10	STEPPER W/ ADJUSTABLE RESISTANCE UBX292	10/LC501

**EXISTING TO REMAIN (EX)**

SYMBOL	DESCRIPTION	DETAIL
EX-06	TREE, VARIOUS SIZES, PROTECT IN PLACE	
EX-07	TRAIL, PROTECT IN PLACE	

**SITE LIGHTING AND ELECTRICAL (LI)**

SYMBOL	DESCRIPTION	DETAIL
LI-01	POLE LIGHT SEE EG101	



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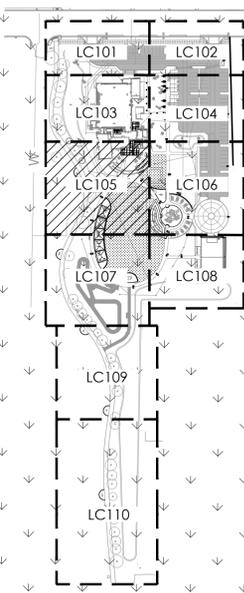
**FOURTH ST COMMUNITY CENTER AND PARK**  
 HENDERSON AVE., PORTERVILLE, CA 93257  
**CONSTRUCTION PLAN**

NO.	REVISION	DATE
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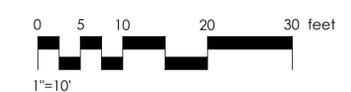
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 DRAWN BY  
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 CHECKED BY  
 LW  
 DATE  
 2024.09.19  
 PROJECT NUMBER  
 2883-01-RC22  
 SHEET  
**LC105**

MATCHLINE, SEE SHEET LC106

**KEYMAP**



\*HATCHED AREA REPRESENTS CURRENT SHEET 1"=200'



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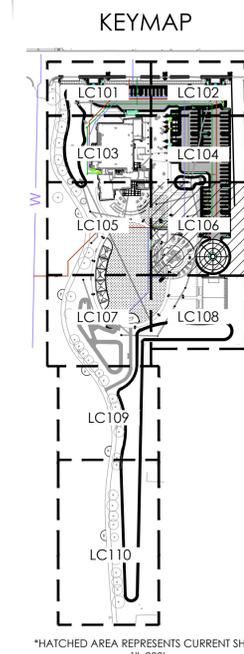
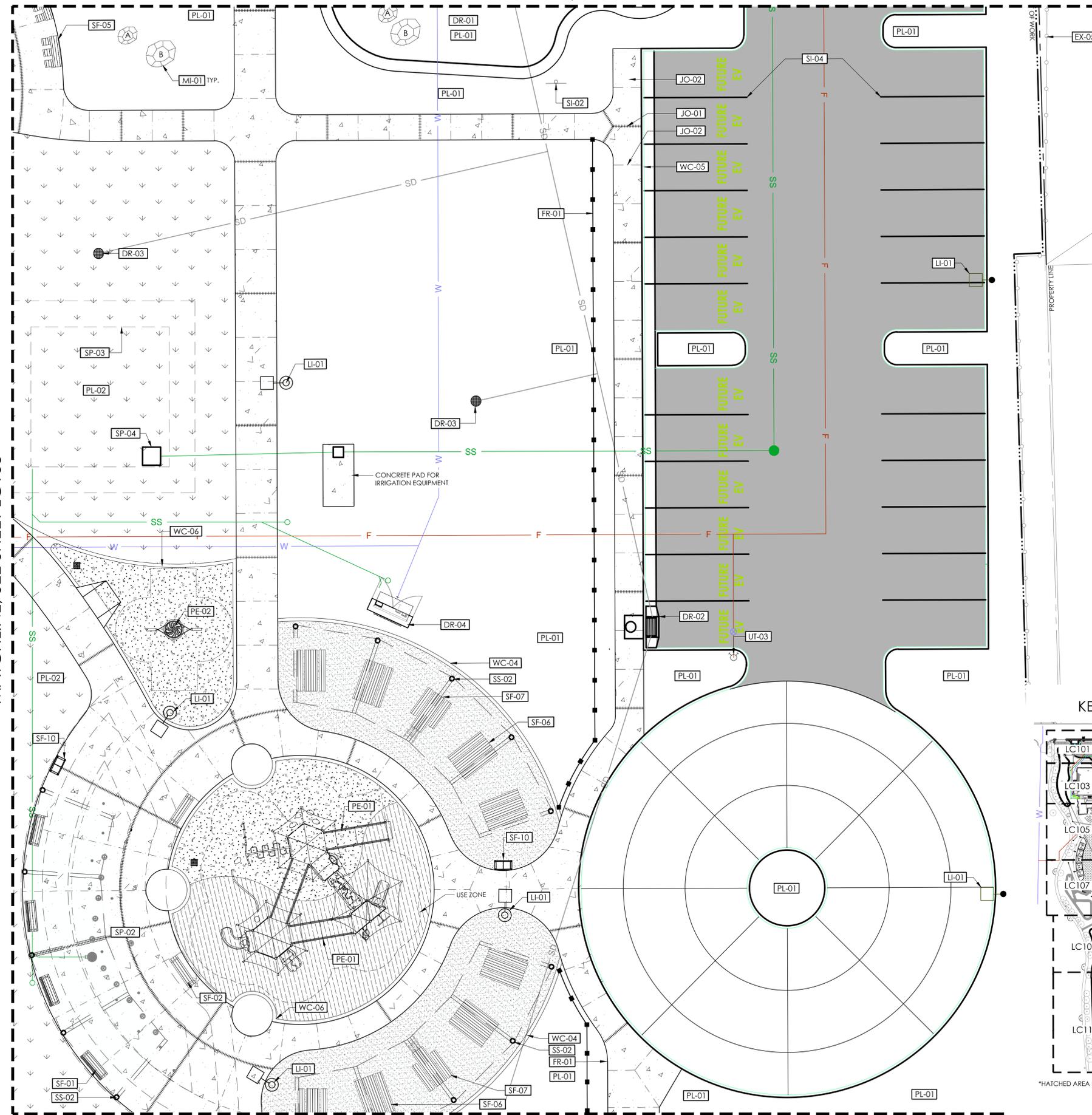
PLAN CHECK REVISION 2

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MATCHLINE, SEE SHEET LC105

MATCHLINE, SEE SHEET LC104

MATCHLINE, SEE SHEET LC108

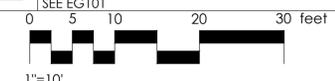


\*HATCHED AREA REPRESENTS CURRENT SHEET  
1"=20'



### CONSTRUCTION SCHEDULE - LC106

CODE	DESCRIPTION	DETAIL
<b>PAVING AND SURFACING (PA)</b>		
	SIDEWALK CONSTRUCTION	
	ASHPALT CONCRETE PAVING	
	ENGINEERED WOOD FIBER	2/LC501
	POURED-IN-PLACE RUBBER SURFACING	4/LC501
	COLORS: SEE SPECS	
	STABILIZED DECOMPOSED GRANITE	1/LC501
	COLOR: CALIFORNIA GOLD	
<b>JOINTING (JO)</b>		
	EXPANSION JOINT	
	CONTROL JOINT	
<b>WALLS AND CURBS (WC)</b>		
	FLUSH CURB AT DECOMPOSED GRANITE	5/LC501
	CONCRETE CURB AND GUTTER	
	PLAY CURB	6/LC501
<b>SITE FURNISHINGS (SF)</b>		
	BENCH TYPE 1: BACKED BENCH	
	BENCH TYPE 2: BACKLESS BENCH	
	6FT TABLE BENCH COMBO	
	8FT RECTANGULAR PICNIC TABLE	
	8FT RECTANGULAR ACCESSIBLE PICNIC TABLE	
	WASTE & RECYCLING RECEPTACLE	
<b>FENCES, RAILINGS, AND GATES (FR)</b>		
	WOOD RAIL FENCE	2/LC503
<b>SITE STRUCTURES (SS)</b>		
	CANTILEVERED SHADE STRUCTURE AT PICNIC & SPLASHPAD	
<b>DRAINAGE AND BIO-RETENTION (DR)</b>		
	BIORETENTION AREA	
	CATCH BASIN	
	DRAIN INLET	
<b>PLANTING AND IRRIGATION (PL)</b>		
	PLANTER AREA SEE LP101-110 AND LI101-110	
	TURF AREA SEE LP101-110 AND LI101-110	
<b>UNDERGROUND UTILITIES (UT)</b>		
	FIRE HYDRANT	
<b>SIGNAGE AND STRIPING (SI)</b>		
	RECYCLED WATER SIGN	7/LC503
	PARKING SPACE STRIPING SEE CH101-CH103	
<b>PLAY EQUIPMENT (PE)</b>		
	ACCESSIBLE PLAY STRUCTURE	
	SAUCER SWING	
<b>SPECIALTY (SP)</b>		
	SPLASH PAD	
	SEE SPLASHPAD DRAWINGS FOR DETAILS	
	SPLASHPAD SUBSURFACE RESERVOIR	
	SEE SPLASHPAD AND IRRIGATION DRAWINGS FOR DETAILS	
	FLUSH ACCESSIBLE LOCKABLE DOOR	
	SEE SPLASHPAD DRAWINGS FOR DETAILS	
	SPLASH PAD MANIFOLD CABINET	
<b>EXISTING TO REMAIN (EX)</b>		
	FENCING, PROTECT IN PLACE	
<b>MISCELLANEOUS (MI)</b>		
	LANDSCAPE BOULDER	3/LC503
<b>SITE LIGHTING AND ELECTRICAL (LI)</b>		
	POLE LIGHT SEE EG101	



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AGENCY

**FOURTH ST COMMUNITY CENTER AND PARK**  
 HENDERSON AVE., PORTERVILLE, CA 93257  
**CONSTRUCTION PLAN**

NO.	REVISION	DATE

PROJECT NUMBER		2883-01-RC22
DATE		2024.09.19
DRAWN BY		DK
CHECKED BY		LW
SHEET		LC106

PLAN CHECK REVISION 2



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AGENCY

**CONSTRUCTION SCHEDULE - LC107**

**PAVING AND SURFACING (PA)**

CODE	DESCRIPTION	DETAIL
PA-01	SIDEWALK CONSTRUCTION	
PA-02	ASHPALT CONCRETE PAVING	
PA-03	ASHPALT PAVING AT PUMP TRACK	
PA-04	ENGINEERED WOOD FIBER	2/LC501
PA-05	SYNTHETIC TURF	3/LC501

**JOINTING (JO)**

CODE	DESCRIPTION	DETAIL
JO-01	EXPANSION JOINT	
JO-02	CONTROL JOINT	

**WALLS AND CURBS (WC)**

CODE	DESCRIPTION	DETAIL
WC-06	PLAY CURB	6/LC501

**SITE FURNISHINGS (SF)**

CODE	DESCRIPTION	DETAIL
SF-01	BENCH TYPE 1: BACKED BENCH	
SF-02	BENCH TYPE 2: BACKLESS BENCH	
SF-08	BIKE RACK	
SF-09	BIKE FIXIT STATION	
SF-10	WASTE & RECYCLING RECEPTACLE	
SF-11	PEDESTAL BOTTLE FILLER/DRINK FOUNTAIN	

**SITE STRUCTURES (SS)**

CODE	DESCRIPTION	DETAIL
SS-03	SHADE STRUCTURE AT CHALLENGE COURSE	
SS-04	SHADE STRUCTURE AT PUMP TRACK	

**DRAINAGE AND BIO-RETENTION (DR)**

CODE	DESCRIPTION	DETAIL
DR-01	BIORETENTION AREA	

**PLANTING AND IRRIGATION (PL)**

CODE	DESCRIPTION	DETAIL
PL-01	PLANTER AREA SEE LP101-110 AND LI101-110	
PL-02	TURF AREA SEE LP101-110 AND LI101-110	

**SIGNAGE AND STRIPING (SI)**

CODE	DESCRIPTION	DETAIL
SI-02	RECYCLED WATER SIGN	7/LC503

**FITNESS/ATHLETIC EQUIPMENT (FI)**

CODE	DESCRIPTION	DETAIL
FI-04	CHALLENGE COURSE OBSTACLE 4 SWAY STEPS	
FI-05	CHALLENGE COURSE OBSTACLE 5 VAULT WALL	
FI-06	CHALLENGE COURSE OBSTACLE 6 TRAVERSE WALL	
FI-07	CHALLENGE COURSE OBSTACLE 7 U-TURN RAMP	
FI-09	PAGOSA CLIMBING BOULDER	
FI-11	BENCH PRESS W/ ADJUSTABLE RESISTANCE UBX293	10/LC501

**SPECIALTY (SP)**

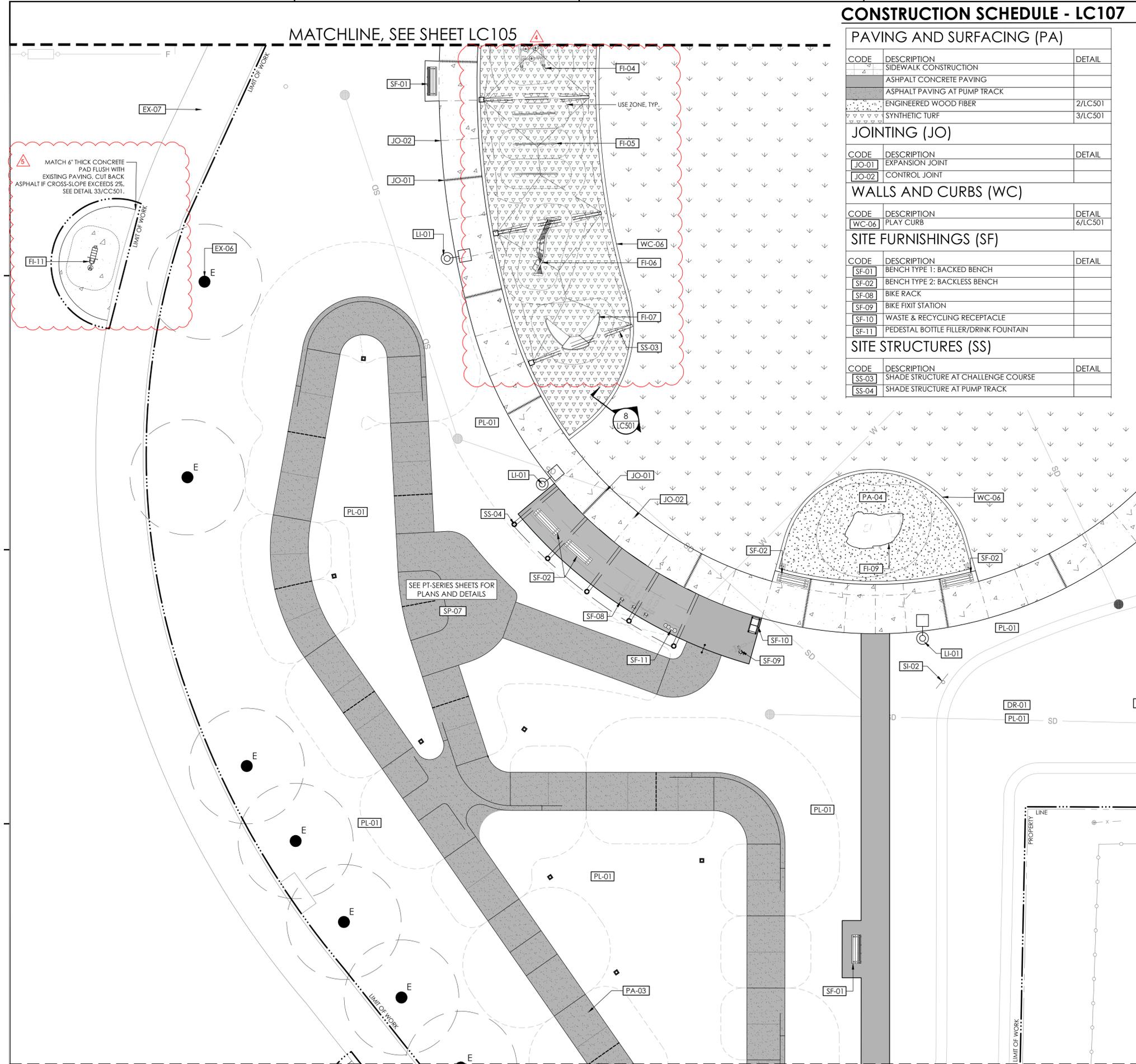
CODE	DESCRIPTION	DETAIL
SP-07	BIKE PUMP TRACK SEE PT-SERIES SHEETS FOR DETAILS	

**EXISTING TO REMAIN (EX)**

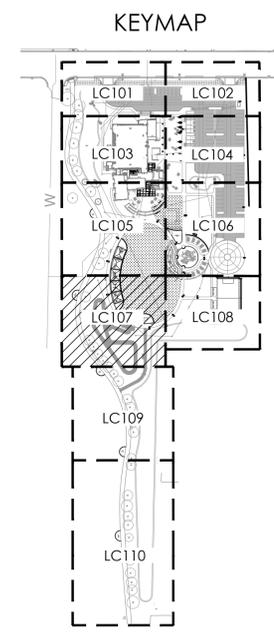
CODE	DESCRIPTION	DETAIL
EX-06	TREE, VARIOUS SIZES, PROTECT IN PLACE	
EX-07	TRAIL, PROTECT IN PLACE	

**SITE LIGHTING AND ELECTRICAL (LI)**

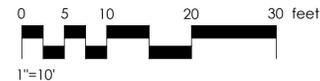
CODE	DESCRIPTION	DETAIL
LI-01	POLE LIGHT SEE EG101	



MATCHLINE, SEE SHEET LC108



\*HATCHED AREA REPRESENTS CURRENT SHEET 1"=200'



N:\3800\2883-01-RC22-Porterville-Fourth-St-Park-Design\Landscaping-Architecture\Task-12-Construction\Sheet-Files\LC-2883-01.dwg, LC107, Dec 19, 2024, 6:05pm, LDWierschem

PLAN CHECK REVISION 2

**FOURTH ST COMMUNITY CENTER AND PARK**  
HENDERSON AVE., PORTERVILLE, CA 93257  
**CONSTRUCTION PLAN**

NO.	REVISION	DATE
△	ADDENDUM 5	12/02/24
△	ADDENDUM 6	12/20/24
△		
△		
△		

PROJECT MANAGER  
LW  
DRAWN BY DK  
CHECKED BY LW  
DATE 2024.09.19  
PROJECT NUMBER 2883-01-RC22  
SHEET **LC107**



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**FOURTH ST COMMUNITY  
CENTER AND PARK**  
HENDERSON AVE., PORTERVILLE, CA 93257  
**CONSTRUCTION PLAN**

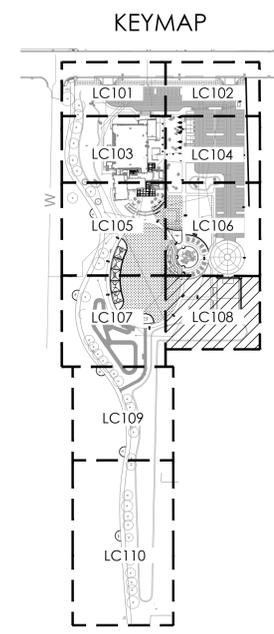
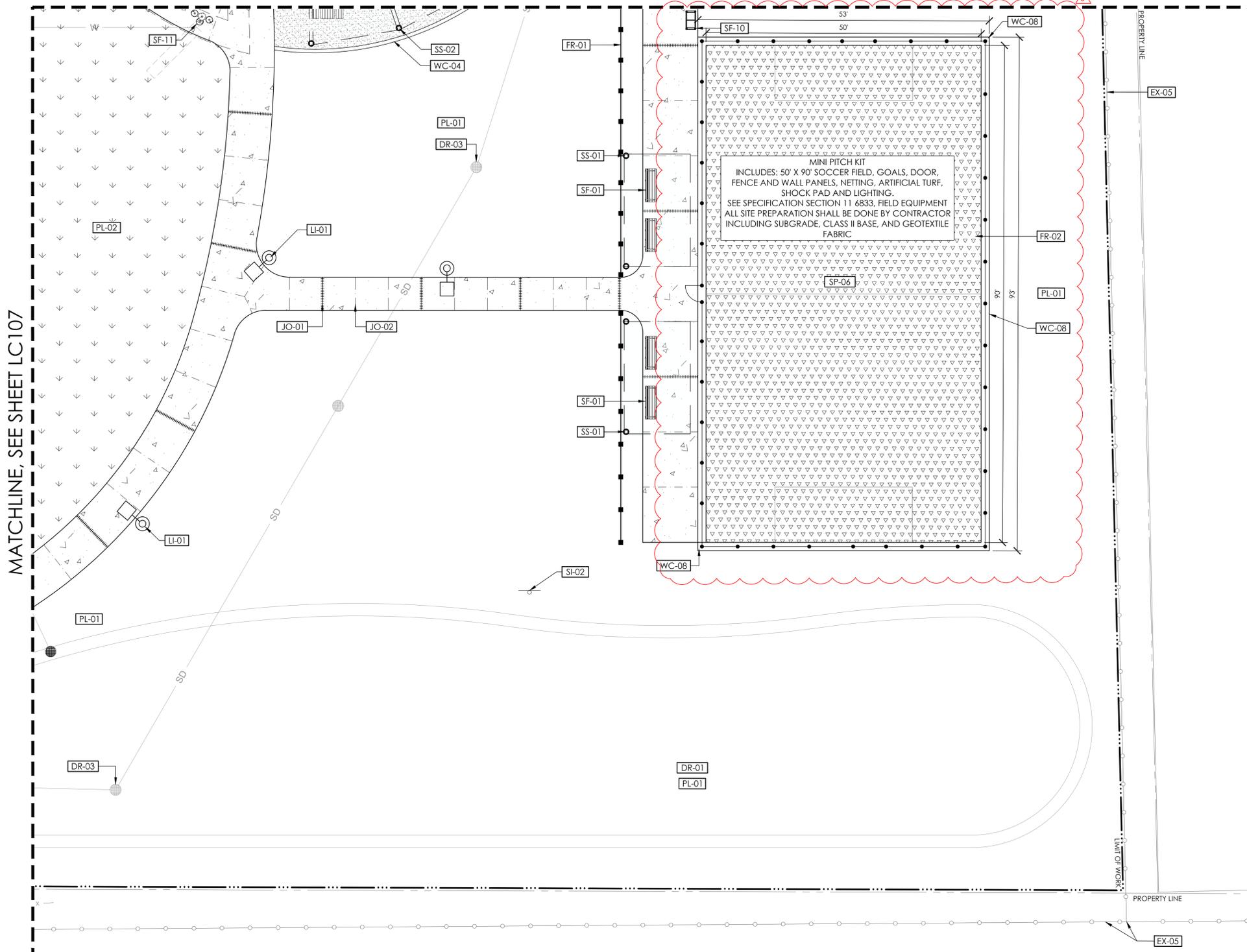
NO.	REVISION	DATE
3	ADDENDUM 4	11/27/24
△		
△		
△		
△		

PROJECT MANAGER	
DRAWN BY	CHECKED BY
DATE	
2024.09.19	
PROJECT NUMBER	
2883-01-RC22	
SHEET	

**LC108**

MATCHLINE, SEE SHEET LC106

MATCHLINE, SEE SHEET LC107



**CONSTRUCTION SCHEDULE - AREA 8**

PAVING AND SURFACING (PA)		
CODE	DESCRIPTION	DETAIL
△	SIDEWALK CONSTRUCTION	
▽▽▽▽	SYNTHETIC TURF	3/LC501
■	STABILIZED DECOMPOSED GRANITE COLOR: CALIFORNIA GOLD	1/LC501

JOINTING (JO)		
CODE	DESCRIPTION	DETAIL
JO-01	EXPANSION JOINT	
JO-02	CONTROL JOINT	

WALLS AND CURBS (WC)		
CODE	DESCRIPTION	DETAIL
WC-04	FLUSH CURB AT DECOMPOSED GRANITE	5/LC501
WC-08	MINI PITCH CONCRETE PERIMETER	4/LC503

SITE FURNISHINGS (SF)		
CODE	DESCRIPTION	DETAIL
SF-01	BENCH TYPE 1: BACKED BENCH	
SF-10	WASTE & RECYCLING RECEPTACLE	
SF-11	PEDESTAL BOTTLE FILLER/DRINK FOUNTAIN	

FENCES, RAILINGS, AND GATES (FR)		
CODE	DESCRIPTION	DETAIL
FR-01	WOOD RAIL FENCE	2/LC503
FR-02	MINI PITCH FENCE	

SITE STRUCTURES (SS)		
CODE	DESCRIPTION	DETAIL
SS-01	SHADE STRUCTURE AT MINI PITCH	
SS-02	CANTILEVERED SHADE STRUCTURE AT PICNIC & SPLASHPAD	

DRAINAGE AND BIO-RETENTION (DR)		
CODE	DESCRIPTION	DETAIL
DR-01	BIORETENTION AREA	
DR-03	DRAIN INLET	

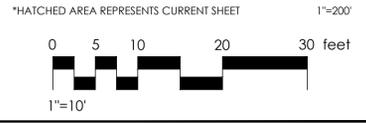
PLANTING AND IRRIGATION (PL)		
CODE	DESCRIPTION	DETAIL
PL-01	PLANTER AREA SEE LP101-110 AND LI101-110	
PL-02	TURF AREA SEE LP101-110 AND LI101-110	

SITE LIGHTING AND ELECTRICAL (LI)		
CODE	DESCRIPTION	DETAIL
LI-01	POLE LIGHT SEE EG101	

SIGNAGE AND STRIPING (SI)		
CODE	DESCRIPTION	DETAIL
SI-02	RECYCLED WATER SIGN	7/LC503

SPECIALTY (SP)		
CODE	DESCRIPTION	DETAIL
SP-06	MINI PITCH KIT	

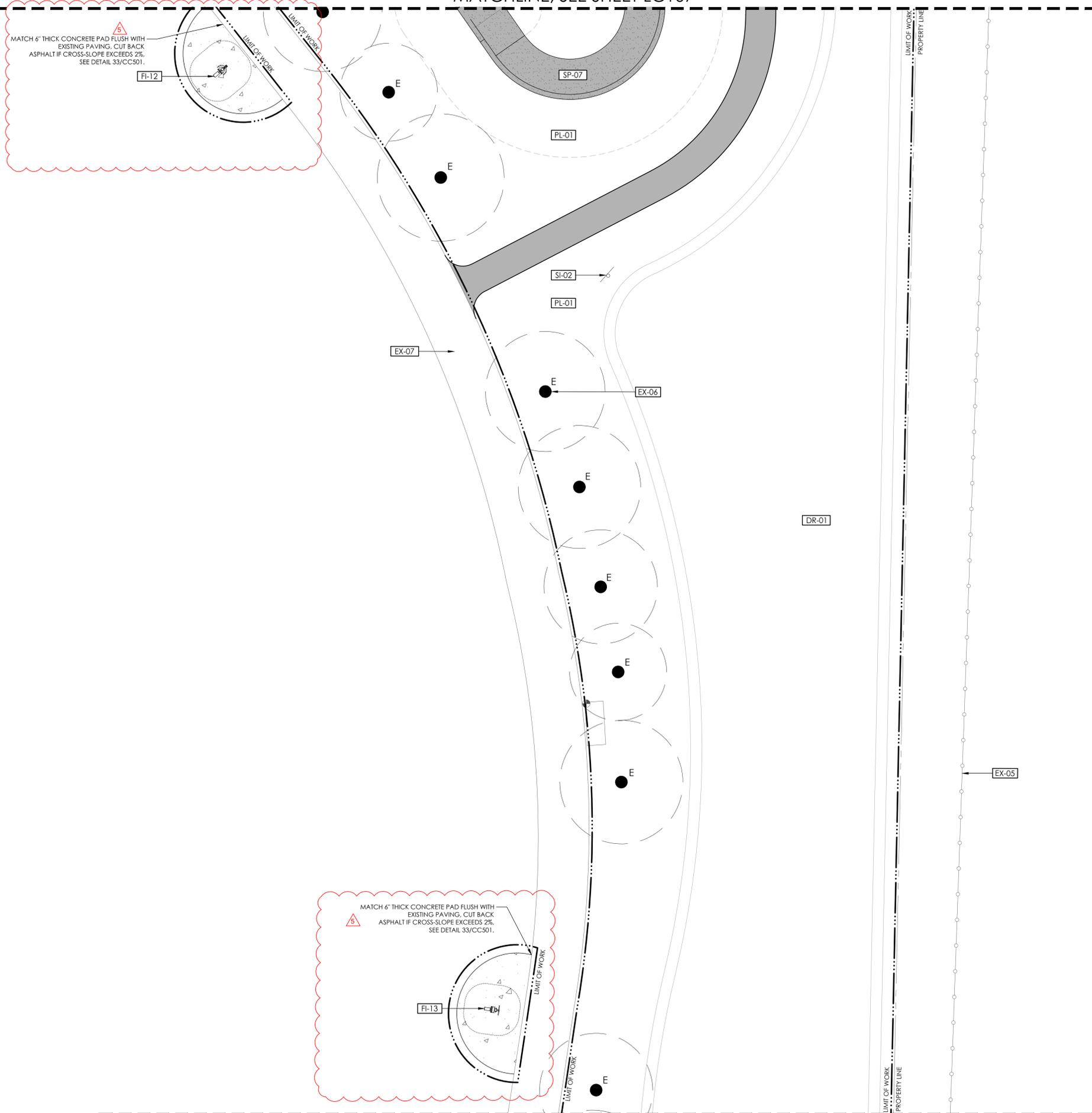
EXISTING TO REMAIN (EX)		
CODE	DESCRIPTION	DETAIL
EX-05	FENCING, PROTECT IN PLACE	



PLAN CHECK REVISION 2

N:\2883-01-RC22-Porterville-Fourth-St-Park-Design-Landscape-Architecture\Task-L2-Construction\Sheet-Files\LC-2883-01.dwg, LC 108, Dec 19, 2024, 6:29pm, LDWerschem

MATCHLINE, SEE SHEET LC107

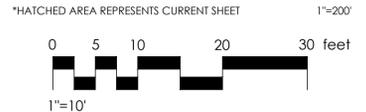
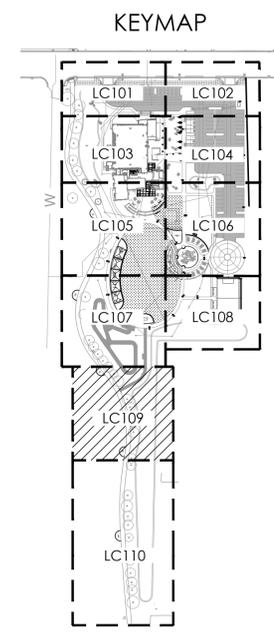


MATCH 6" THICK CONCRETE PAD FLUSH WITH EXISTING PAVING. CUT BACK ASPHALT IF CROSS-SLOPE EXCEEDS 2%. SEE DETAIL 33/CC501.

MATCH 6" THICK CONCRETE PAD FLUSH WITH EXISTING PAVING. CUT BACK ASPHALT IF CROSS-SLOPE EXCEEDS 2%. SEE DETAIL 33/CC501.

**CONSTRUCTION SCHEDULE - LC109**

PAVING AND SURFACING (PA)		
CODE	DESCRIPTION	DETAIL
PA-01	SIDEWALK CONSTRUCTION	
PA-02	ASPHALT CONCRETE PAVING	
PA-03	ASPHALT PAVING AT PUMP TRACK	
WALLS AND CURBS (WC)		
CODE	DESCRIPTION	DETAIL
WC-06	PLAY CURB	6/LC501
DRAINAGE AND BIO-RETENTION (DR)		
CODE	DESCRIPTION	DETAIL
DR-01	BIORETENTION AREA	
SIGNAGE AND STRIPING (SI)		
CODE	DESCRIPTION	DETAIL
SI-02	RECYCLED WATER SIGN	7/LC503
FITNESS/ATHLETIC EQUIPMENT (FI)		
CODE	DESCRIPTION	DETAIL
FI-12	ROWER W/ ADJUSTABLE RESISTANCE UBX290	10/LC501
FI-13	ARM CURL W/ ADJUSTABLE RESISTANCE UBX255	10/LC501
SPECIALTY (SP)		
CODE	DESCRIPTION	DETAIL
SP-07	BIKE PUMP TRACK SEE PT-SERIES SHEETS FOR DETAILS	
EXISTING TO REMAIN (EX)		
CODE	DESCRIPTION	DETAIL
EX-05	FENCING, PROTECT IN PLACE	
EX-06	TREE, VARIOUS SIZES, PROTECT IN PLACE	
EX-07	TRAIL, PROTECT IN PLACE	



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**FOURTH ST COMMUNITY CENTER AND PARK**  
 HENDERSON AVE., PORTERVILLE, CA 93257  
**CONSTRUCTION PLAN**

NO.	REVISION	DATE
5	ADDENDUM 6	12/20/24
1		
2		
3		
4		

PROJECT MANAGER  
 LW  
 DRAWN BY DK CHECKED BY LW  
 DATE 2024.09.19  
 PROJECT NUMBER 2883-01-RC22  
 SHEET

**LC109**

PLAN CHECK REVISION 2

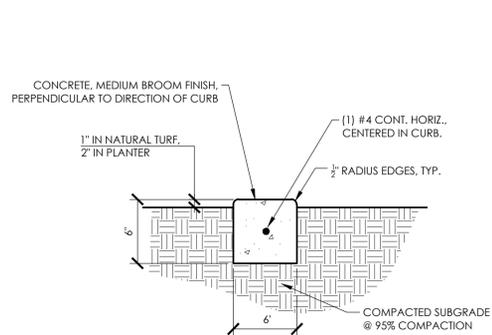
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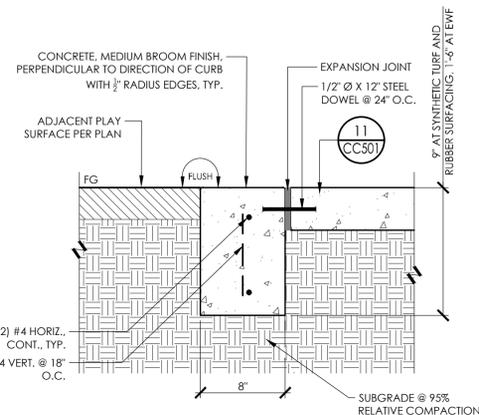
AGENCY



NOTES:

1. PROVIDE CONTRACTION JOINT EVERY 10' MAX.
2. PROVIDE EXPANSION JOINT EVERY 20' MAX.
3. SPACE JOINTS EVENLY BETWEEN BEGINNING AND END POINTS.

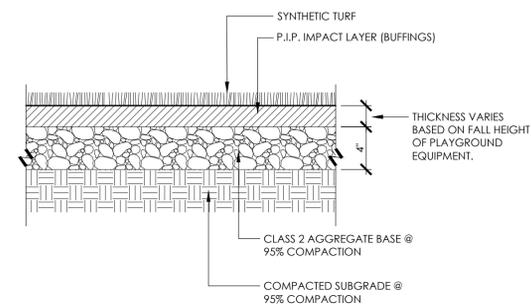
**9 MOW CURB**  
1 1/2" = 1'-0"  
RRM-2800-2883.01-68



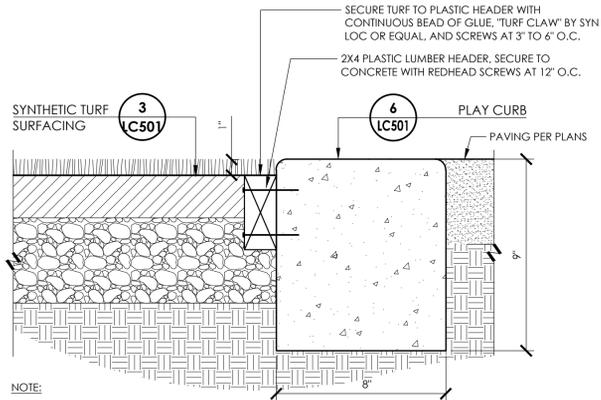
NOTES:

1. PROVIDE CONTRACTION JOINT EVERY 10' MAX.
2. PROVIDE EXPANSION JOINT EVERY 20' MAX.
3. SPACE JOINTS EVENLY BETWEEN BEGINNING AND END POINTS.

**6 PLAY CURB**  
1 1/2" = 1'-0"  
RRM-2800-2883.01-68



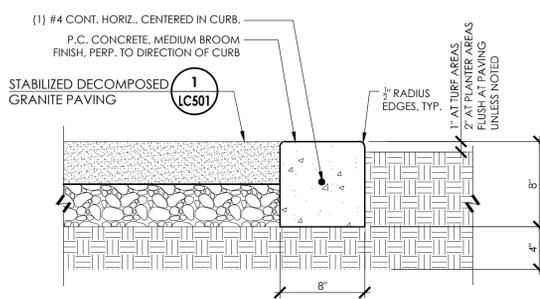
**3 SYNTHETIC TURF SURFACING**  
1 1/2" = 1'-0"  
RRM-2800-2883.01-63



NOTE:

1. PROVIDE CONTRACTION JOINT EVERY 10' MAX IN CURB.
2. PROVIDE EXPANSION JOINT EVERY 20' MAX IN CURB.
3. SPACE JOINTS EVENLY BETWEEN BEGINNING AND END POINTS.

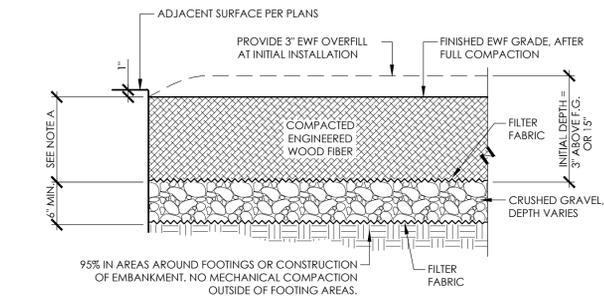
**8 SYNTHETIC TURF AT PLAY CURB**  
3" = 1'-0"  
RRM-2800-2883.01-62



NOTES:

- A. PROVIDE CONTRACTION JOINT EVERY 10' MAX.
- B. PROVIDE EXPANSION JOINT EVERY 20' MAX.
- C. SPACE JOINTS EVENLY BETWEEN BEGINNING AND END POINTS.

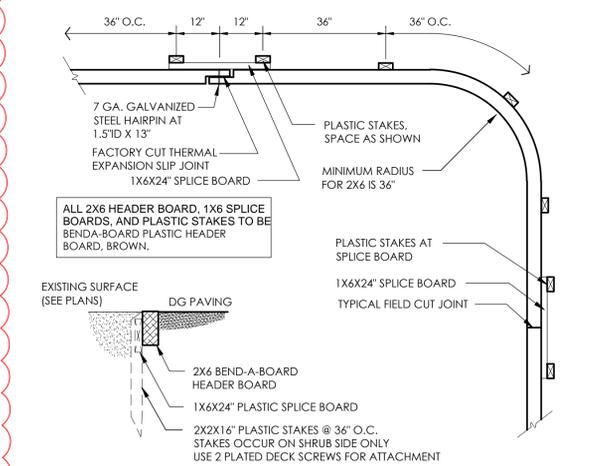
**5 FLUSH CURB AT DECOMPOSED GRANITE**  
1 1/2" = 1'-0"  
RRM-2800-2883.01-19



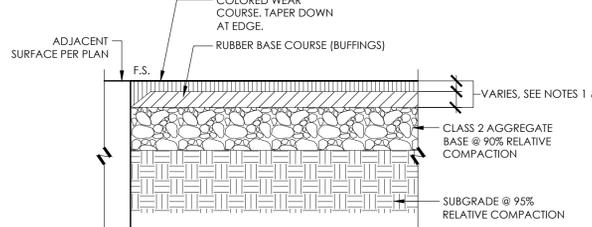
NOTES:

- A. EWF MINIMUM COMPACTED DEPTH: 12" MIN. (15" MIN. UNCOMPACTED).
- B. CONTRACTOR WILL INITIALLY PLACE 15" OF EWF (3" ABOVE PROPOSED EWF F.G. AS SHOWN ABOVE AND ON THE GRADING PLAN) AND COMPACT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND AS DIRECTED BY THE ENGINEER.
- C. PROVIDE POSITIVE SUBGRADE DRAINAGE AWAY FROM PLAY EQUIPMENT FOOTINGS. SEE SHEET CU101 - CU103 AND DETAIL 32/CC504.

**2 ENGINEERED WOOD FIBER SURFACING**  
1" = 1'-0"  
RRM-2800-2883.01-08



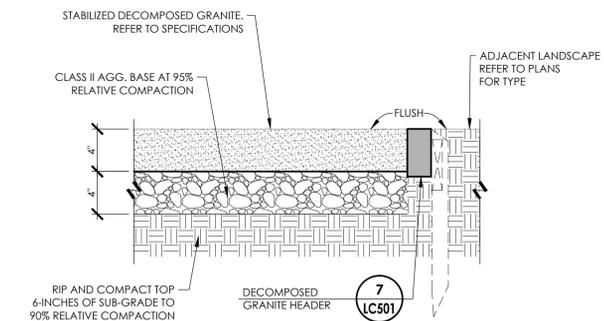
**7 DECOMPOSED GRANITE HEADER**  
1" = 1'-0"  
RRM-2800-2883.01-54



NOTES:

1. CONTRACTOR SHALL CONTACT MANUFACTURER TO DETERMINE FALL HEIGHT FOR SPECIFIED PLAY EQUIPMENT IN EACH AREA OF RUBBER SURFACING.
2. CRITICAL FALL HEIGHT OF SURFACING SHALL MEET OR EXCEED FALL HEIGHT OF EQUIPMENT. INSTALL SURFACING TO REQUIRED THICKNESS TO MEET THIS CRITICAL FALL HEIGHT.
3. CONTRACTOR SHALL SUPPLY ALL TEST DATA TO THE CITY OR THE CITY'S AUTHORIZED REPRESENTATIVE FOR REVIEW PRIOR TO INSTALLATION.
4. SEE CONSTRUCTION PLANS FOR COLOR.
5. SEE SPECIFICATIONS FOR RUBBER SURFACING PRODUCT, GRANULE SIZE AND BINDER TYPE.

**4 POURED-IN-PLACE RUBBER SURFACING**  
3/4" = 1'-0"  
RRM-2800-2883.01-60



**1 STABILIZED DECOMPOSED GRANITE PAVING**  
1 1/2" = 1'-0"  
RRM-2800-2883.01-82

**General Installation Instructions: Surface Mount**



The following information for contractors, maintenance personnel and supervisory staff will help ensure an accurate, safe and problem-free installation. **UNITS ARE HEAVY** (up to 450 lbs.) When unloading and handling, please exercise extra care to prevent injury or damage to the equipment. For installation, epoxy is **not** included in shipment and must be provided by installer.

Questions? Please call 888-315-9037 x105.

Video Demo: <http://www.greenfieldsfitness.com/surface-mount-installation/>

**Tools Needed:** Concrete pad must be fully cured before anchoring begins.

1. Concrete drill
2. 1/2" carbide tipped drillbit
3. Angle grinder
4. Compressor with blow tip
5. Sledge hammer
6. 3/4" socket
7. Torque wrench

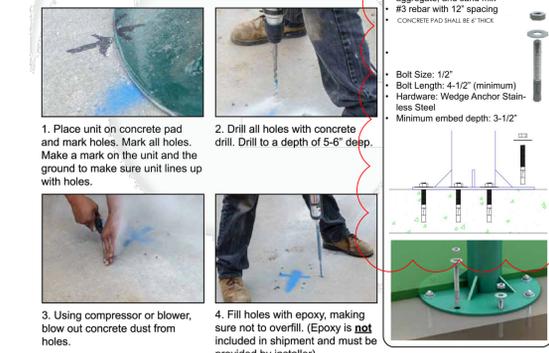
**Parts Included:**

- Wedge Anchors - 4 1/2" x 1/2"
- Black Plastic Covers
- Black Plastic Caps
- Metal Shims

**Specifications:**

- Concrete: 3250 PSI (minimum)
- Aggregate mix: 1:3 3/8" to 3/4"
- Concrete mix: 1:3:2.5 concrete, aggregate, and sand mix
- #3 rebar with 12" spacing
- CONCRETE PAD SHALL BE 6" THICK

**Basic Installation Guidelines:**



**10 SURFACE MOUNT FITNESS EQUIPMENT ON CONCRETE PAD**  
1 1/2" = 1'-0"  
RRM-2800-2883.01-103

N:\2800\2883.01-RC22-Porterville-Fourth-St-Park-Design\Landscaping-Architecture\Task-12-Construction\Sheet-Files\LC-2883.01\_DETAILED.dwg, LC501, Dec 19, 2024, 1:57pm, LDWierichem

**FOURTH ST COMMUNITY CENTER AND PARK**  
HENDERSON AVE., PORTERVILLE, CA 93257  
CONSTRUCTION DETAILS

NO.	REVISION	DATE
5	ADDENDUM 6	12/20/24

PROJECT MANAGER  
LW  
DRAWN BY  
DK / AB  
CHECKED BY  
LW  
DATE  
2024.09.19  
PROJECT NUMBER  
2883-01-RC22

SHEET  
**LC501**

PLAN CHECK REVISION 2

# COMPLIANCE WITH MWEL0

- PROJECT INFORMATION - SEE COVER PAGE OF THIS DRAWING SET FOR ALL INFORMATION INCLUDING, DATE, PROJECT APPLICANT AND OWNER, AND ADDRESS.  
  
TOTAL LANDSCAPE AREA: 107,259 SF  
SHRUBS, & GROUNDCOVERS - 68,900 SF  
TREES - 3,200 SF  
IRRIGATED TURF AREAS - 33,379 SF  
NON-IRRIGATED SYNTHETIC TURF - 4,500 SF  
  
ESTIMATED TOTAL WATER USE (ETWU): **4,625,582 GAL/YR**  
MAXIMUM APPLIED WATER ALLOWANCE (MAWA): **4,625,582 GAL/YR**
- PROJECT TYPE - NEW CONSTRUCTION
- WATER SUPPLY - POTABLE / NON-POTABLE
- CHECKLIST OF ALL DOCUMENTS IN LANDSCAPE DOCUMENT PACKAGE:  
X LANDSCAPE DESIGN PLAN - INCLUDED IN THESE LANDSCAPE DRAWINGS  
X IRRIGATION DESIGN PLAN - INCLUDED IN THESE LANDSCAPE DRAWINGS  
X GRADING DESIGN PLAN - PER CG SERIES SHEETS
- WATER BUDGET CALCULATIONS (MAWA) AND (ETWU), SEE BELOW.
- AREAS WITHIN THE PROJECT SITE THAT ARE TO BE USED FOR RECREATIONAL PURPOSES AND ANY AREAS THAT THAT WILL BE IRRIGATED WITH RECYCLED WATER ARE CLASSIFIED AS SPECIAL LANDSCAPE AREAS. SPECIAL LANDSCAPE AREAS HAVE BEEN INCORPORATED INTO THE FOLLOWING CALCULATIONS AND ARE REFLECTED IN THE MAXIMUM APPLIED WATER ALLOWANCE PER CALIFORNIA CODE OF REGULATIONS AND THE MODEL WATER EFFICIENT LANDSCAPE ORDINANCE. SEE SOURCE BELOW.
- I AGREE TO COMPLY WITH THE REQUIREMENTS OF MWEL0.

### CONTRACTOR IS RESPONSIBLE FOR THE FOLLOWING ITEMS:

<http://www.water.ca.gov/wateruseefficiency/docs/MWEL009-10-09.pdf>

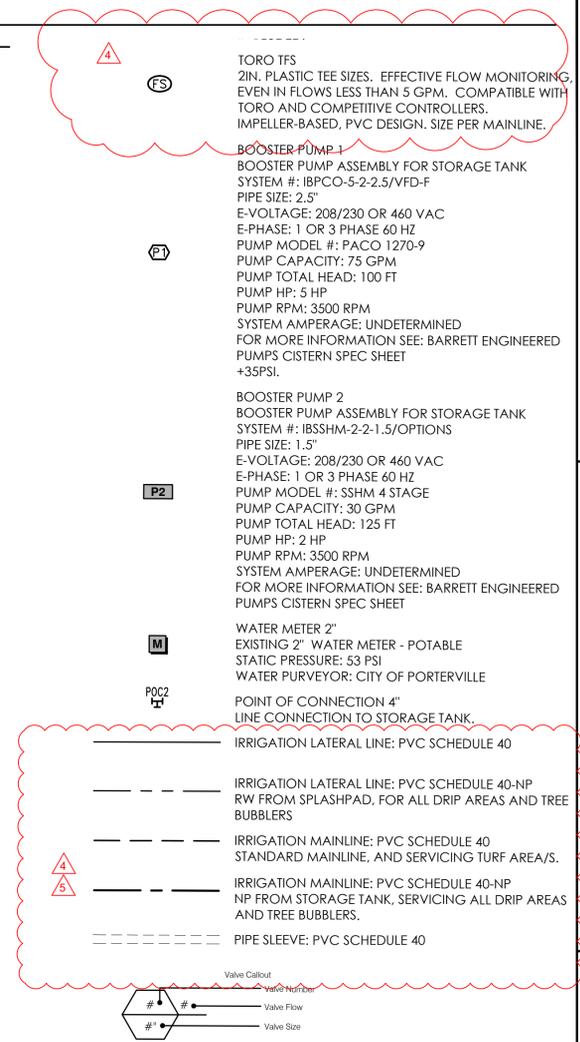
- COMPOSTING  
Incorporate compost at a rate of at least four cubic yards per 1,000 square feet to a depth of six inches into landscape area - unless contra-indicated by a soils report.
- PLANT MATERIAL  
For residential areas, install climate adapted plants that require occasional, little or no summer water (average WUCOLS plant factor 0.3) for 75% of the plant area excluding edibles and areas using recycled water.
- IRRIGATION SYSTEM  
Shall comply with the following:  
Automatic irrigation controllers are required and must use evapotranspiration or soil moisture sensor data and utilize a rain sensor. Irrigation controllers shall be a type which does not lose programming data in the event the primary power source is interrupted. Pressure regulators shall be installed on the irrigation system to ensure the dynamic pressure of the system is within the manufacturer's recommended pressure range.  
All irrigation emission devices must meet the requirements set in the ANSI standard, ASABE/ICC 802-2014 "Landscape Irrigation Sprinkler and Emitter Standard." All sprinkler heads installed in the landscape must document a distribution uniformity low quarter of 0.65 or higher using the protocol defined in ASABE/ICC 802-2014.  
Areas less than ten (10) feet in width in any direction shall be irrigated with subsurface irrigation or other means that produces no runoff or overspray.
- FINAL INSPECTION  
At the time of final inspection, the CONTRACTOR must provide the owner of the property with a certificate of completion, certificate of installation, irrigation schedule and a schedule of landscape and irrigation maintenance.

# WATER USE CALCULATIONS

Reference Evapotranspiration (Eto)							
			52.1				
Hydrozone # /Planting Description*	Plant Factor (PF)	Irrigation Method	Irrigation Efficiency (IE)	ETAF (PF/IE)	Landscape Area (Sq. ft)	ETAF x Area	Estimated Total Water Use (ETWU)
<b>Regular Landscape Areas</b>							
1-DT Shrubs	0.25	Drip	0.91	0.27	0	0.00	0
2-DT Trees	0.25	Bubbler	0.8	0.31	0	0.00	0
3-Mod Shrubs	0.5	Drip	0.91	0.55	0	0.00	0
4-Mod Trees	0.5	Bubbler	0.8	0.63	0	0.00	0
5-Turf	0.9	Spray	0.71	1.27	0	0.00	0
				Totals	0	0.00	0
<b>Special Landscape Areas</b>							
Play Field				1	24961		806,290
Recirculated				1	118,237		3,819,292
Other				0	0		0
				Totals	143198		4,625,582
						<b>ETWU Total</b>	<b>4,625,582</b>
						<b>Maximum Allowed Water Allowance (MAWA)</b>	<b>4,625,582</b>

# IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	ARC	PSI	RADIUS	DETAIL
☐	HUNTER RZWS-18-CV 50 18IN. LONG RZWS WITH INSTALLED .25 GPM OR .50 GPM BUBBLER OPTIONS, CHECK VALVE, 1/2IN. SWING JOINT FOR CONNECTION TO 1/2IN. PIPE	360	30	3'	
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI	RADIUS	DETAIL	
△ <sup>25</sup>	HUNTER I-20-06-MPR 25 TURF ROTOR, 6" POP-UP, ADJUSTABLE AND FULL CIRCLE. PLASTIC RISER. DRAIN CHECK VALVE. MPR NOZZLE.	45	25'		
△ <sup>30</sup>	HUNTER I-20-06-MPR 30 TURF ROTOR, 6" POP-UP, ADJUSTABLE AND FULL CIRCLE. PLASTIC RISER. DRAIN CHECK VALVE. MPR NOZZLE.	45	30'		
△ <sup>35</sup>	HUNTER I-20-06-MPR 35 TURF ROTOR, 6" POP-UP, ADJUSTABLE AND FULL CIRCLE. PLASTIC RISER. DRAIN CHECK VALVE. MPR NOZZLE.	45	35'		
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION				
☒	HUNTER ICZ-101-40-LF-R DRIP CONTROL ZONE KIT. 1IN. ICV GLOBE VALVE WITH 1IN. HY100 FILTER SYSTEM. PRESSURE REGULATION: 40PSI. FLOW RANGE: .5 GPM - 20 GPM. 150 MESH STAINLESS STEEL SCREEN. RECLAIMED PURPLE FILTER COVER.				
☒	HUNTER ICZ-151-XL-40 DRIP CONTROL ZONE KIT. 1-1/2IN. ICV GLOBE VALVE WITH 1IN. HY100 FILTER SYSTEM. PRESSURE REGULATION: 40PSI. FLOW RANGE: .20 GPM TO 60 GPM. 120 MESH STAINLESS STEEL SCREEN. 1-1/2IN. INLET X SINGLE 2IN. OUTLET				
⊙	PIPE TRANSITION POINT ABOVE GRADE PIPE TRANSITION POINT FROM PVC LATERAL TO DRIP TUBING WITH RISER TO ABOVE GRADE INSTALLATION.				
+	AREA TO RECEIVE DRIP EMITTERS RAIN BIRD PCT PRESSURE COMPENSATING THREADED LOW-FLOW BUBBLERS. OFFERED IN 5 GPH, 7 GPH, AND 10 GPH MODELS, WITH 1/2IN. FPT THREADED INLET. LIGHT BROWN = 5 GPH, VIOLET = 7 GPH, AND GREEN = 10 GPH. PCT-05 emitters (2 assigned to each 24"box plant) PCT-05 emitters (1 assigned to each 1 gal plant) PCT-05 emitters (1 assigned to each 5 gal plant) PCT-05 emitters (2 assigned to each 15 gal plant)				
▨	AREA TO RECEIVE DRIPLINE HUNTER HDL-06-18-R HDL-06-18-R: HUNTER DRIPLINE WITH 0.6 GPH FLOW. LIGHT BROWN TUBING WITH PURPLE STRIPING. EMITTERS AT 18" O.C. DRIPLINE LATERALS SPACED AT 18" APART, WITH EMITTERS OFFSET FOR TRIANGULAR PATTERN. INSTALL WITH HUNTER PLD BARBED OR PLD-LOC FITTINGS.				
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION				
⊕	HUNTER ICV-G 1IN., 1-1/2IN., 2IN., AND 3IN. PLASTIC ELECTRIC REMOTE CONTROL VALVES. GLOBE CONFIGURATION, WITH NPT THREADED INLET/OUTLET, FOR COMMERCIAL/MUNICIPAL USE.				
⊕	HUNTER ICV-G-R 1IN., 1-1/2IN., 2IN., AND 3IN. PLASTIC ELECTRIC REMOTE CONTROL VALVES. GLOBE CONFIGURATION, WITH NPT THREADED INLET/OUTLET, FOR COMMERCIAL/MUNICIPAL USE. WITH RECLAIMED WATER ID, PURPLE HANDLE.				
⊗	LANDSCAPE PRODUCTS INC. BBV 1/2IN., 3/4IN., 1IN., 1-1/4IN., 1-1/2IN., 2IN., 2-1/2IN., 3IN. FULL PORT BRASS BALL VALVE. SUITABLE FOR A FULL RANGE OF LIQUIDS AND GASES IN RESIDENTIAL AND COMMERCIAL APPLICATIONS.				
⊕	HUNTER ICV-G MASTER VALVE 2" 1IN., 1-1/2IN., 2IN., AND 3IN. PLASTIC ELECTRIC MASTER VALVE. GLOBE CONFIGURATION, WITH NPT THREADED INLET/OUTLET, FOR COMMERCIAL/MUNICIPAL USE.				
⊕	HUNTER ICV-G MASTER VALVE 2" 1IN., 1-1/2IN., 2IN., AND 3IN. PLASTIC ELECTRIC MASTER VALVE. GLOBE CONFIGURATION, WITH NPT THREADED INLET/OUTLET, FOR COMMERCIAL/MUNICIPAL USE.				
⊕	HUNTER ICV-G-R MASTER VALVE 2" 1IN., 1-1/2IN., 2IN., AND 3IN. PLASTIC ELECTRIC MASTER VALVE. GLOBE CONFIGURATION, WITH NPT THREADED INLET/OUTLET, FOR COMMERCIAL/MUNICIPAL USE. WITH RECLAIMED WATER ID, PURPLE HANDLE.				
⊕	FEBCO 825Y 2" REDUCED PRESSURE BACKFLOW PREVENTER				
⊕	HUNTER I2C-4800-SS 48 STATION OUTDOOR MODULAR CONTROLLER. WITH FIVE ICM-800 MODULE. COMMERCIAL USE. STAINLESS STEEL CABINET.				
⊕	HUNTER RFC-SGM RAIN AND FREEZE SENSOR. WITH CONDUIT INSTALLATION. MOUNT AS NOTED. NORMALLY CLOSED SWITCH. OPTIONAL GUTTER MOUNT.				
⊕	HUNTER ROAM-KIT TRANSMITTER, AND RECEIVER. ROAM REMOTE ALLOWS FOR CONTROLLER OPERATION UP TO 1000 FEET. RESIDENTIAL/LIGHT COMMERCIAL USE. WORKS WITH HUNTER ACC, I-CORE, PRO-C, PCC, AND X-CORE CONTROLLERS. SMARTPORT WIRING HARNESS INCLUDED.				



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**IRRIGATION NOTES, SCHEDULE AND CALCULATIONS**

NO.	REVISION	DATE
△	PLAN CHECK REVISION 1	05/17/24
△	ADDENDUM 5	12/5/24
△	ADDENDUM 6	12/20/24
△		
△		

PROJECT MANAGER  
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 CHECKED BY LW  
 DATE 2024.09.19  
 PROJECT NUMBER 2883-01-RC22  
 SHEET L1001

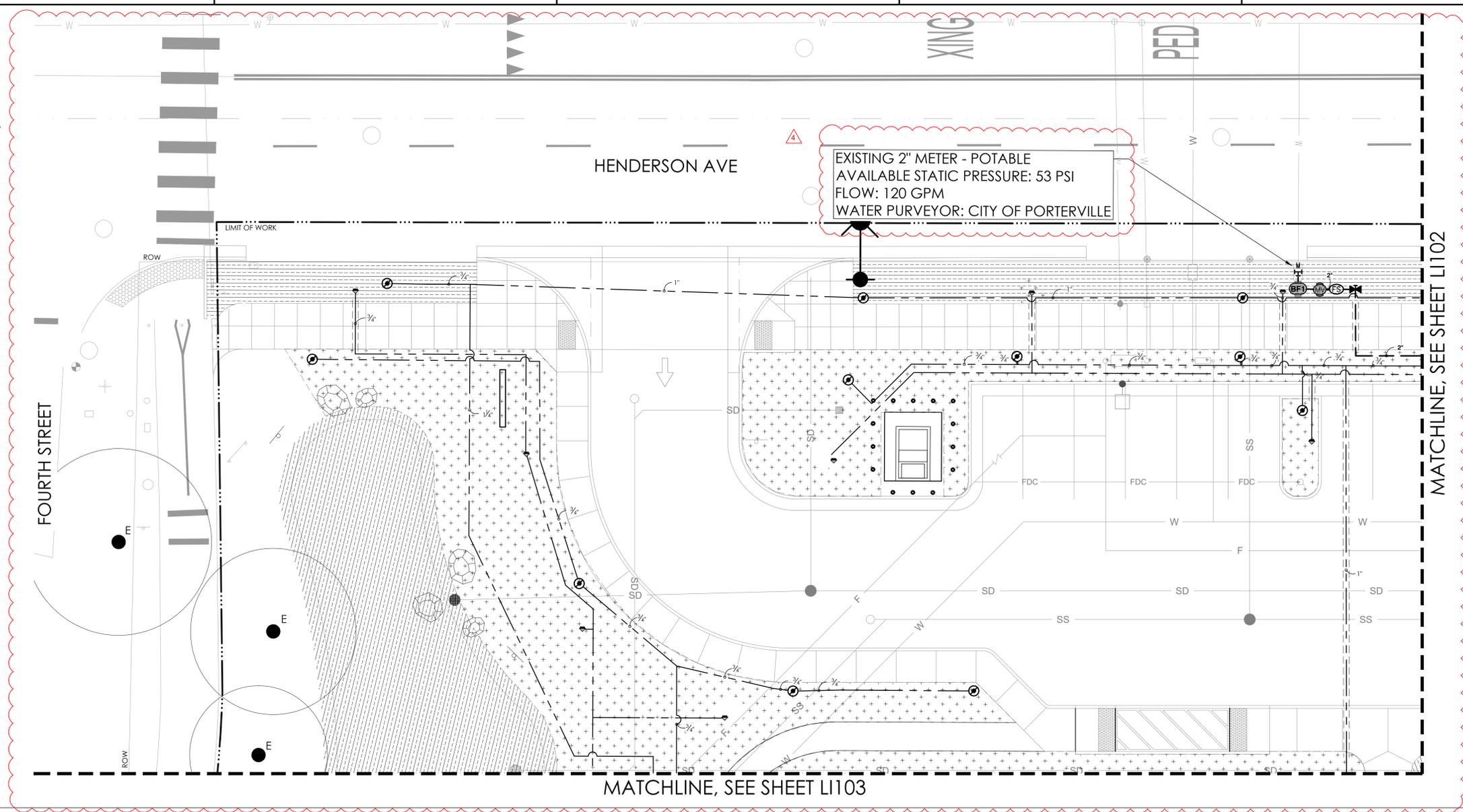
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PLAN CHECK REVISION 2



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EXISTING 2" METER - POTABLE  
AVAILABLE STATIC PRESSURE: 53 PSI  
FLOW: 120 GPM  
WATER PURVEYOR: CITY OF PORTERVILLE

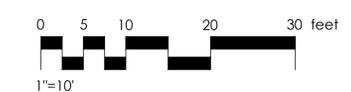
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HENDERSON AVE., PORTERVILLE, CA 93257  
**IRRIGATION PLAN**

NO.	REVISION	DATE
4	ADDENDUM 5	12/5/24
5	ADDENDUM 6	12/20/24
6		
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8		

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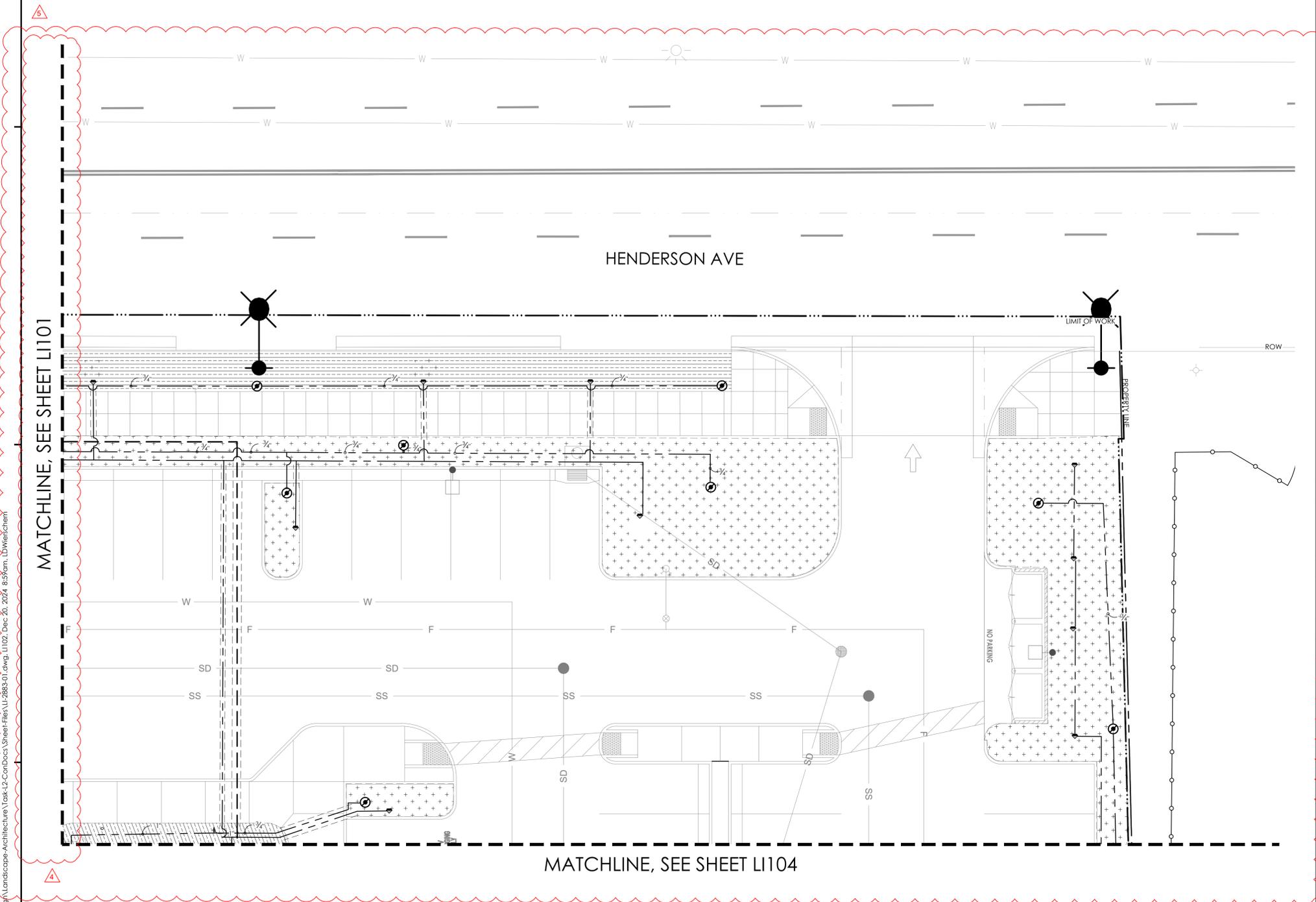
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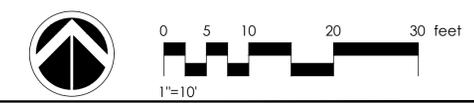
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**IRRIGATION PLAN**

NO.	REVISION	DATE
△	ADDENDUM 5	12/5/24
△	ADDENDUM 6	12/20/24
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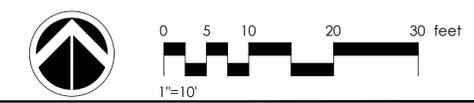
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**IRRIGATION PLAN**

NO.	REVISION	DATE
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PROJECT NUMBER	
2883-01-RC22	
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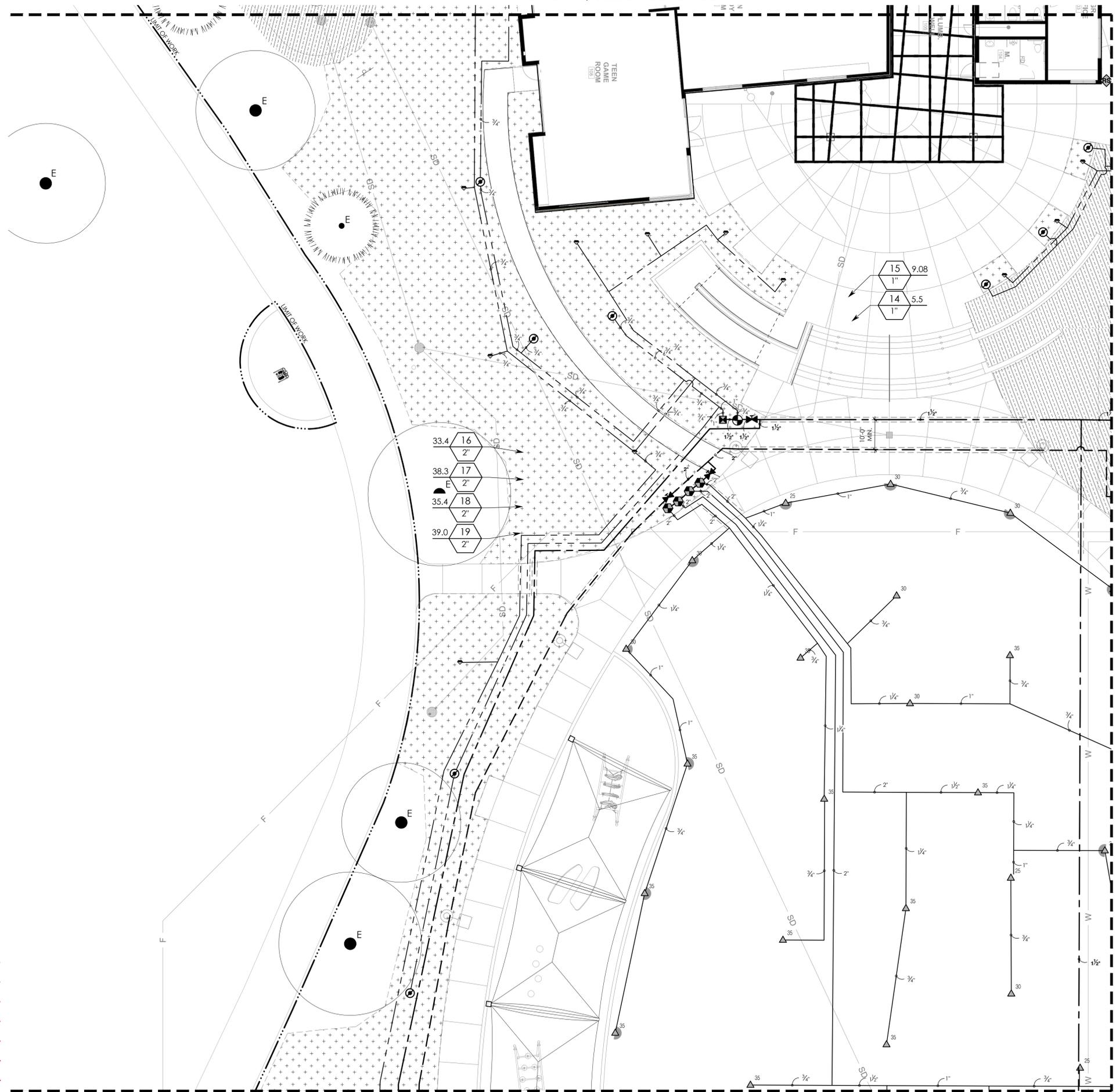
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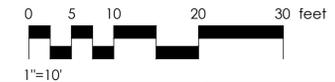


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5	ADDENDUM 6	12/20/24

PROJECT MANAGER  
LW

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DK

CHECKED BY  
LW

DATE  
2024.09.19

PROJECT NUMBER  
2883-01-RC22

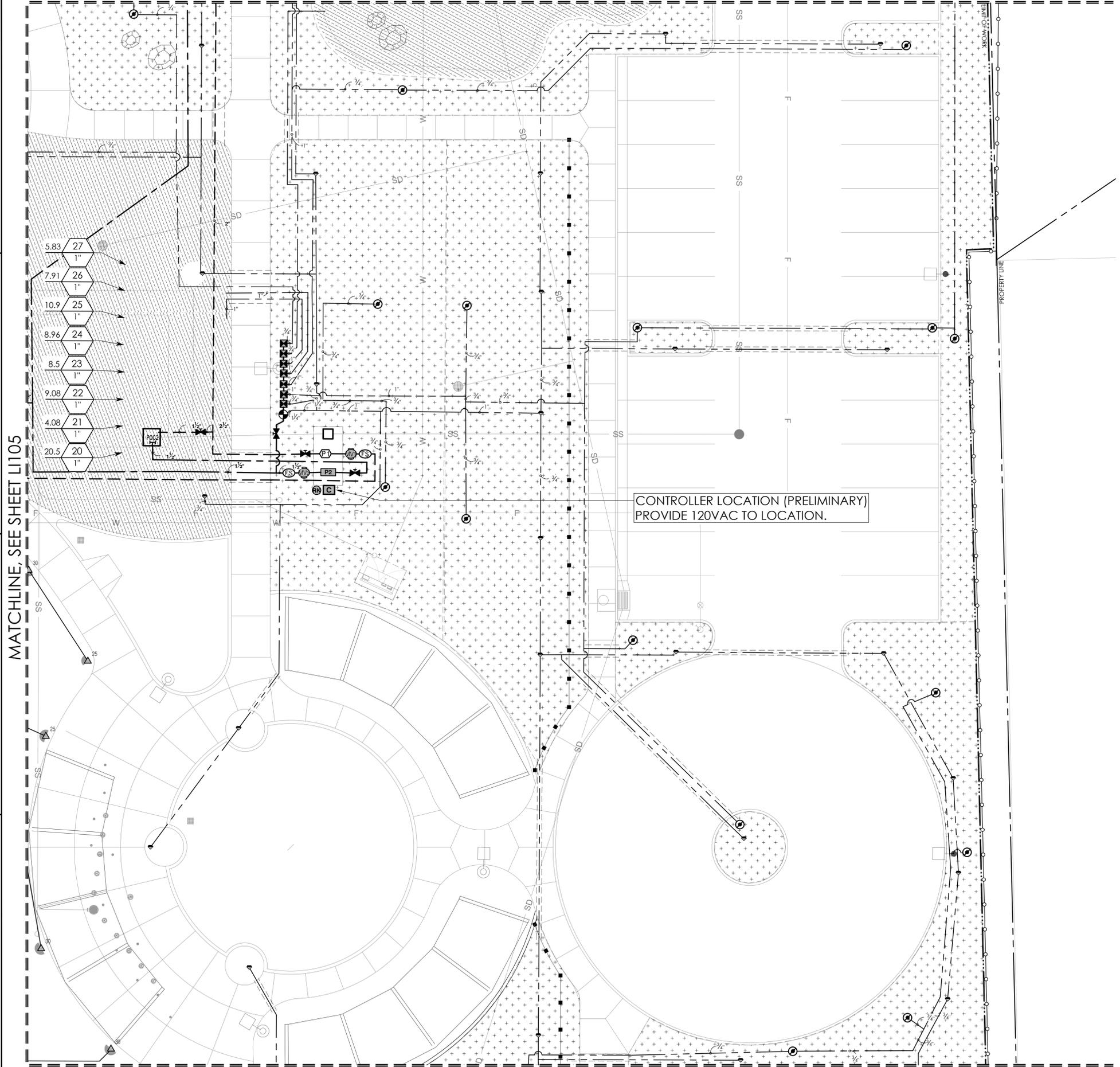
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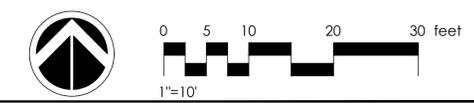
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CONTROLLER LOCATION (PRELIMINARY)  
PROVIDE 120VAC TO LOCATION.

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LI106

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MATCHLINE, SEE SHEET LI109



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- 5.08 32 1" 1"
- 7.0 33 1" 1"
- 5.66 34 1" 1"
- 7.66 35 1" 1"
- 8.41 36 1" 1"
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- 30 36.8 2"
- 29 31.2 2"
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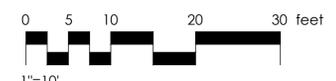
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**IRRIGATION PLAN**

NO.	REVISION	DATE
5	ADDENDUM 5	12/5/24
6	ADDENDUM 6	12/20/24

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**LI107**



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**IRRIGATION PLAN**

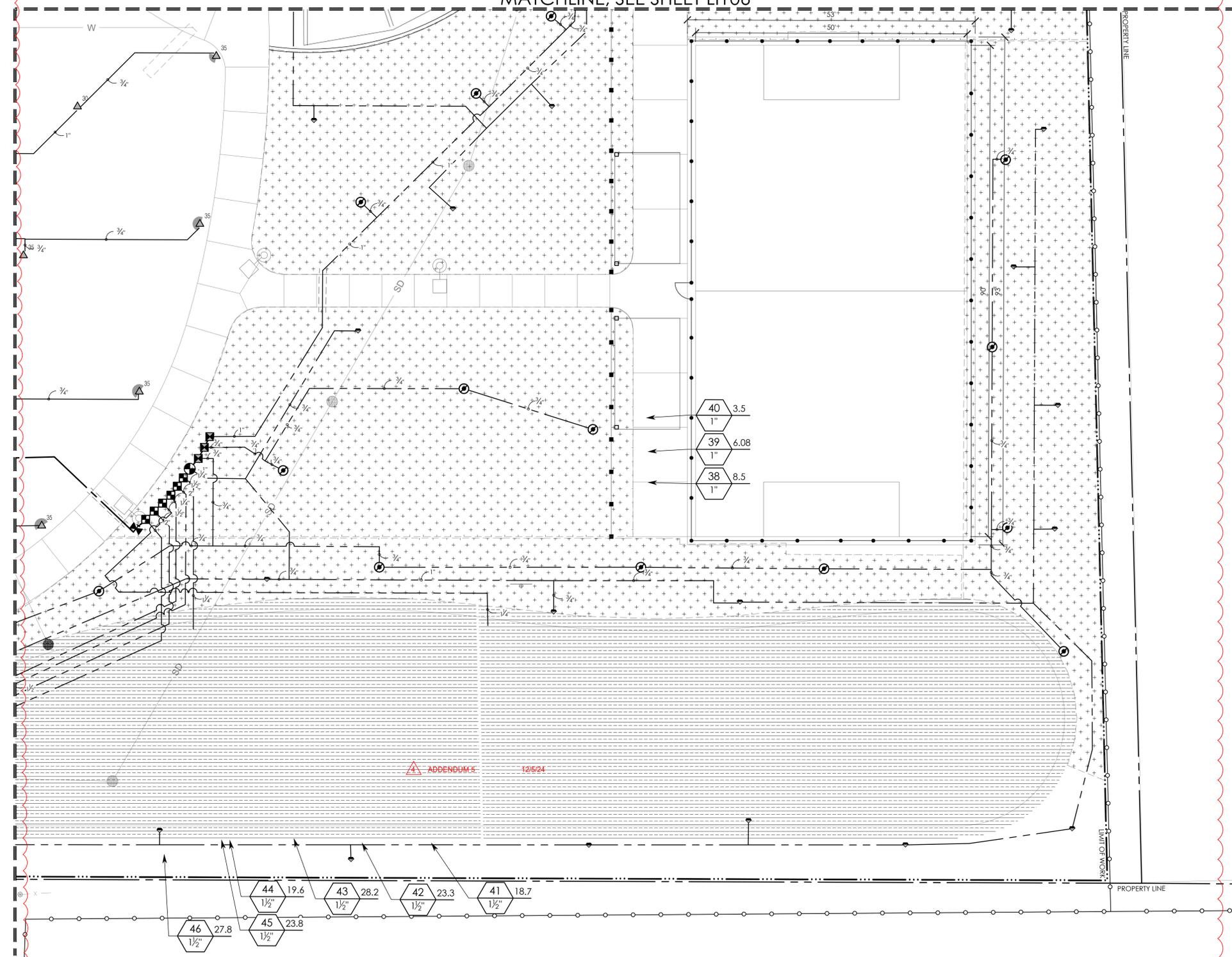
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**LI108**

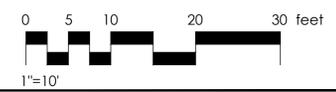
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PLAN CHECK REVISION 2



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IRRIGATION PLAN

NO.	REVISION	DATE
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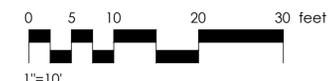
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PLAN CHECK REVISION 2

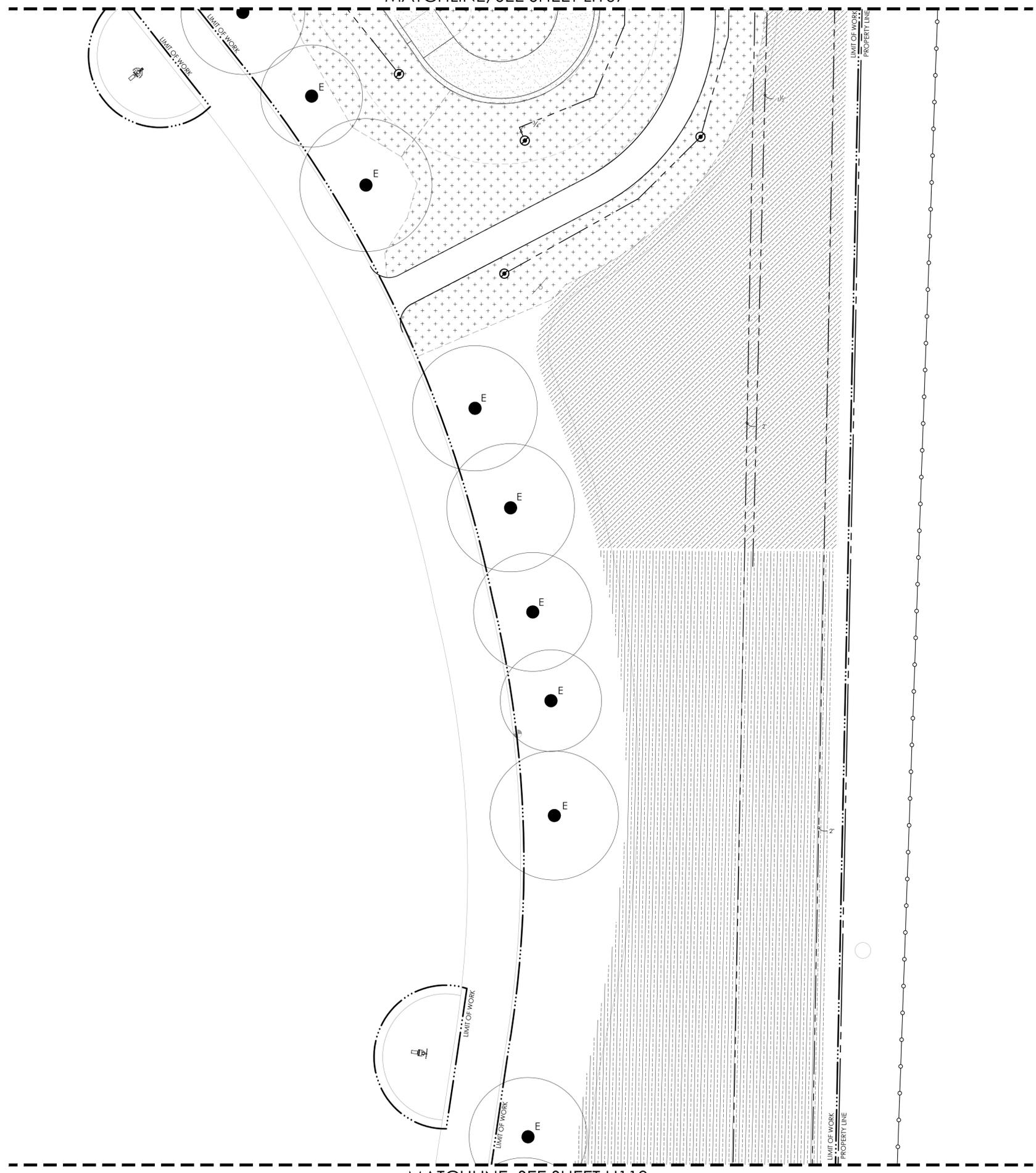
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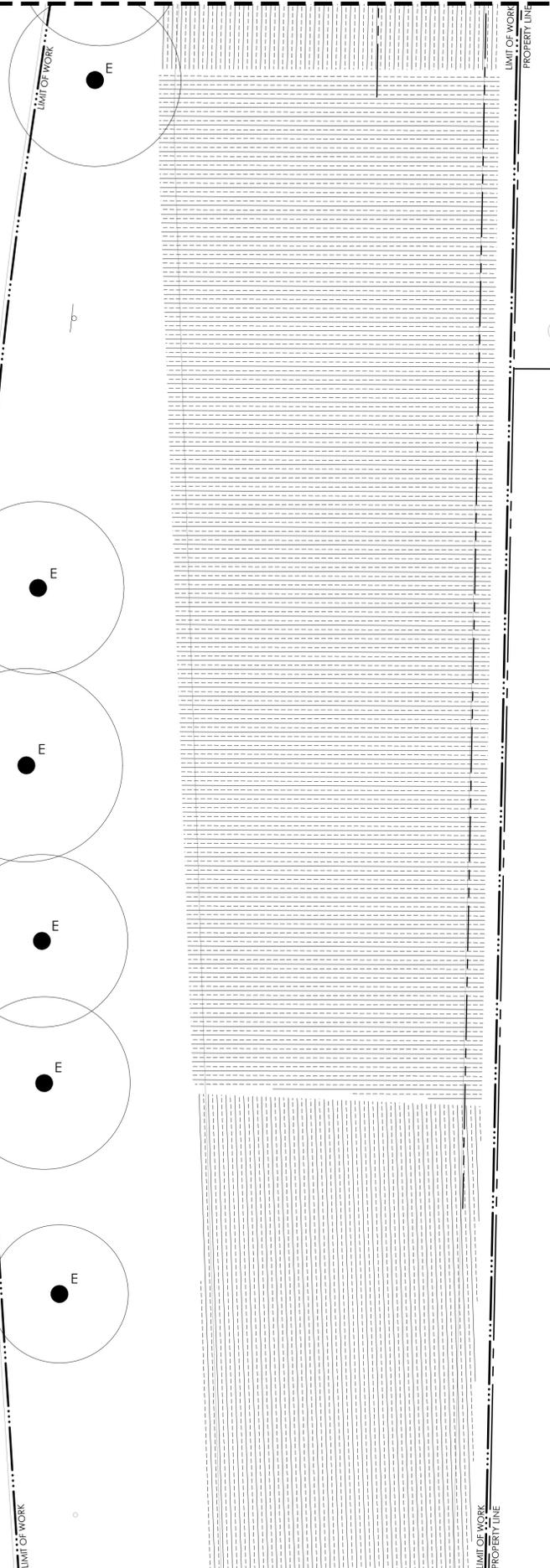
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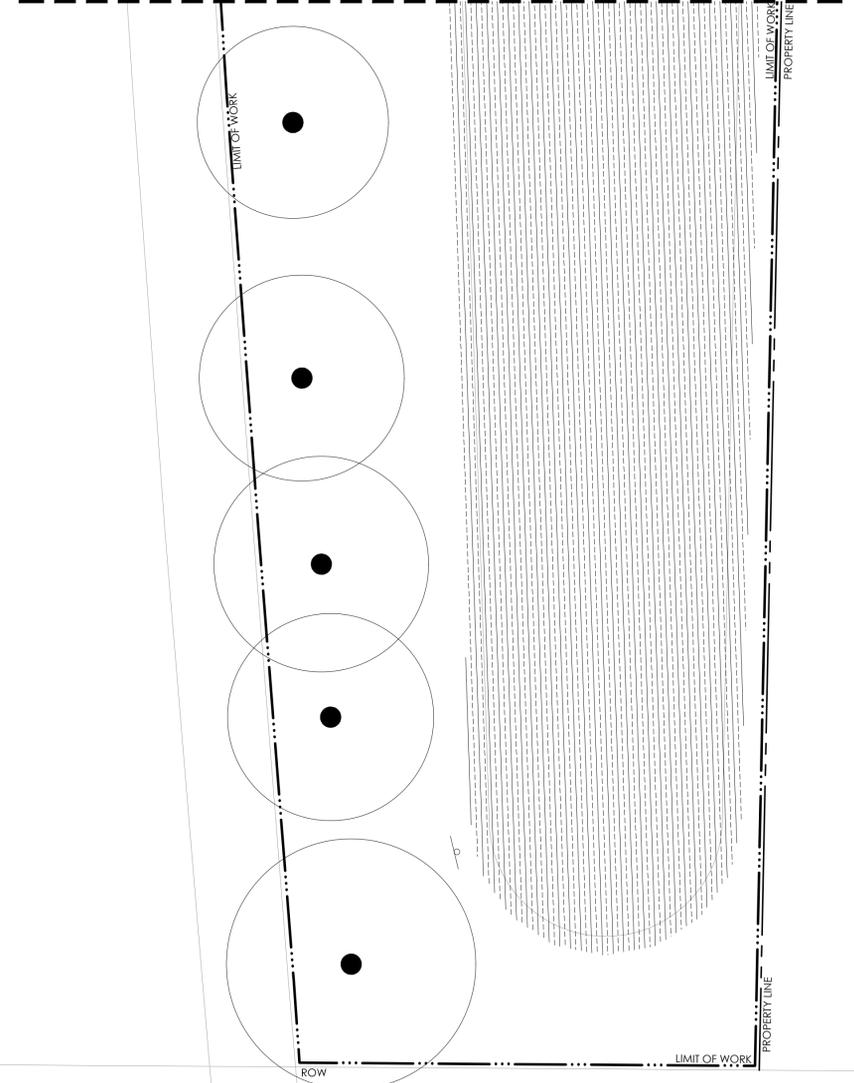
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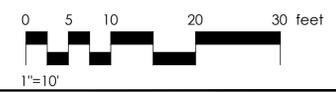
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AGENCY

**FOURTH ST COMMUNITY CENTER AND PARK**  
 HENDERSON AVE., PORTERVILLE, CA 93257  
 IRRIGATION PLAN

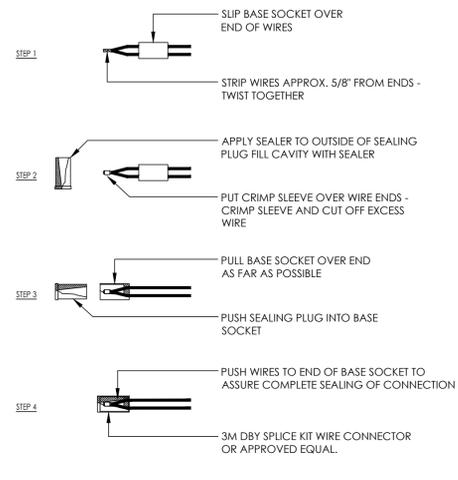
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 2024.09.19  
 PROJECT NUMBER  
 2883-01-RC22

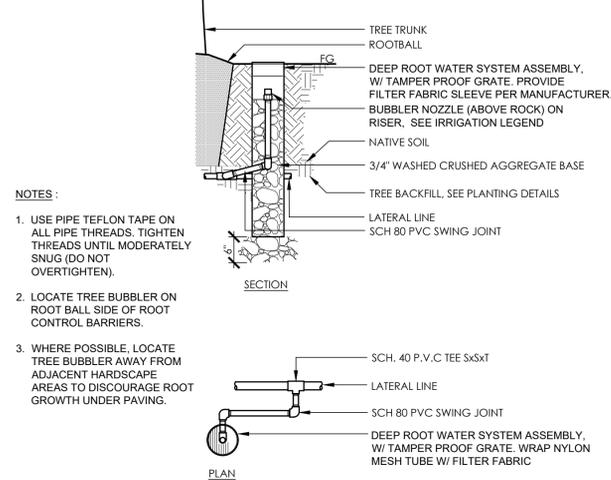
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**LI110**

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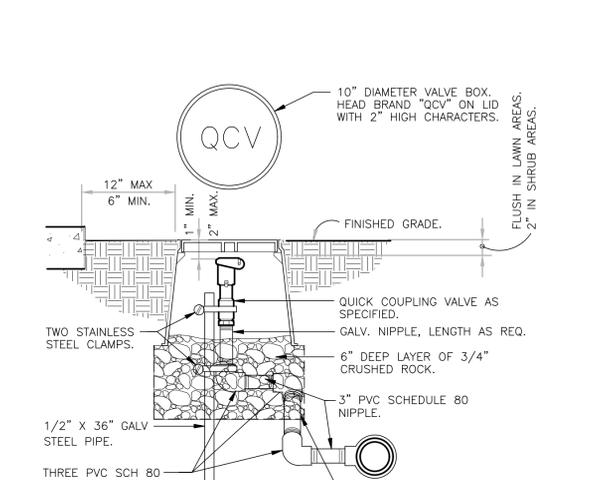
PLAN CHECK REVISION 2



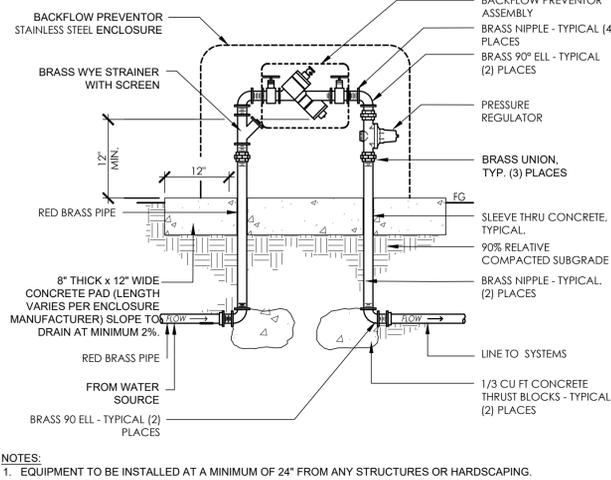
**12 WIRING CONNECTIONS**  
1 1/2" = 1'-0"  
RRM-2800-2883.01-41



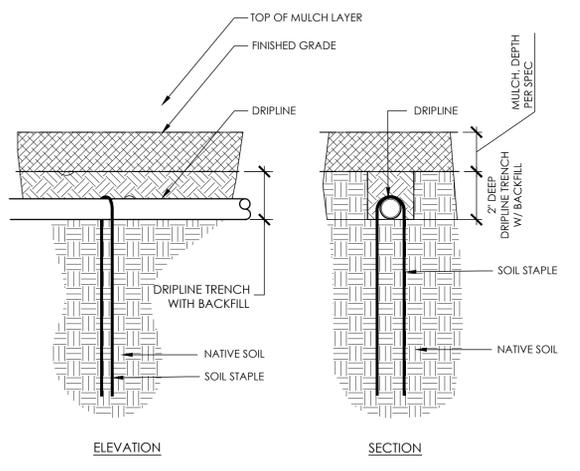
**9 DEEP ROOT TREE BUBBLER**  
3/4" = 1'-0"  
RRM-2800-2883.01-87



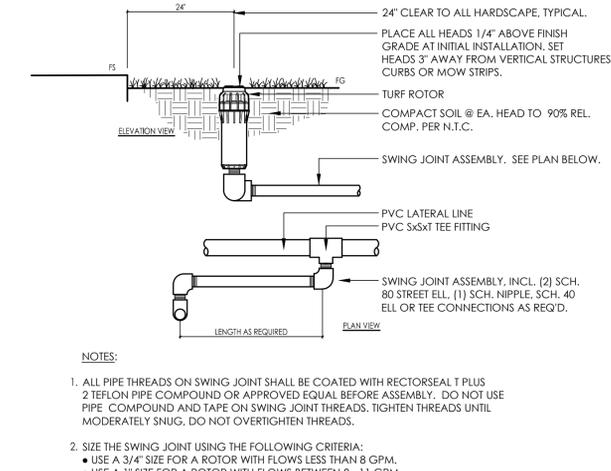
**6 QUICK COUPLING VALVE IN BOX**  
1 1/2" = 1'-0"  
RRM-2800-2883.01-84



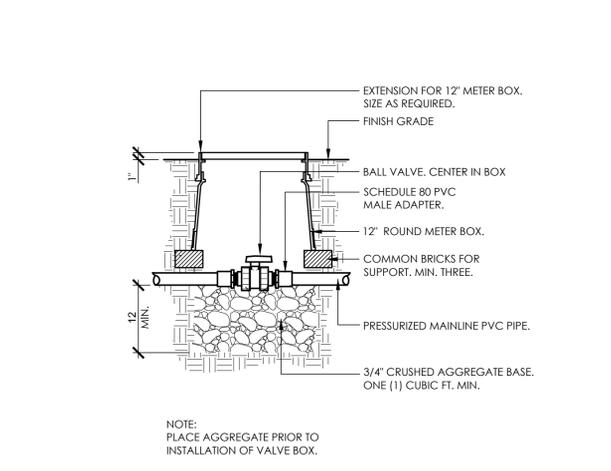
**3 BACKFLOW PREVENTER WITH STEEL ENCLOSURE**  
1 1/2" = 1'-0"  
RRM-2800-2883.01-64



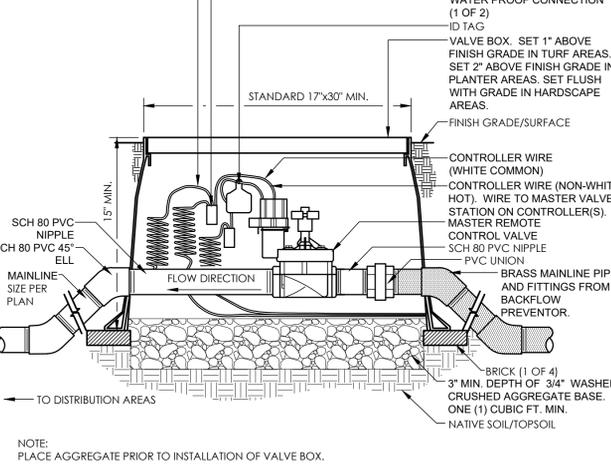
**11 DRIPLINE STAKING**  
3/8" = 1'-0"  
RRM-2800-2883.01-90



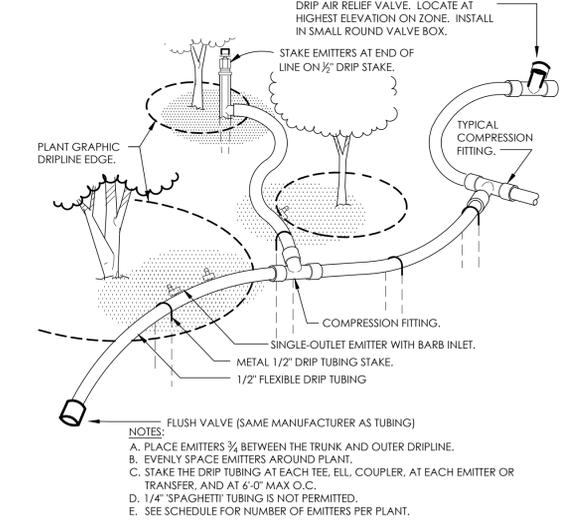
**8 POP-UP ROTOR**  
1 1/2" = 1'-0"  
RRM-2800-2883.01-86



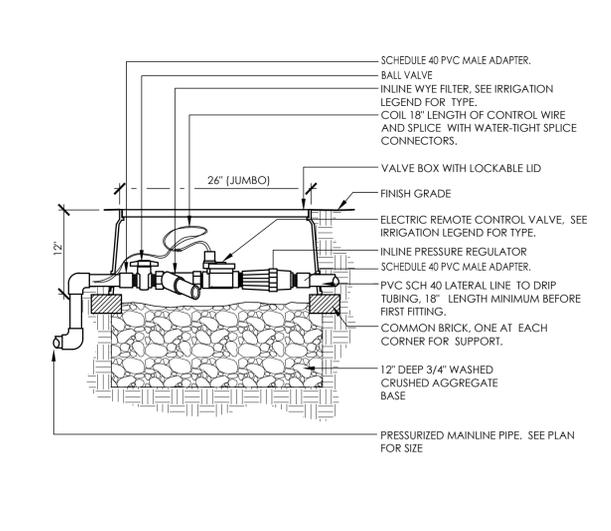
**5 BALL VALVE**  
1" = 1'-0"  
RRM-ZU-96



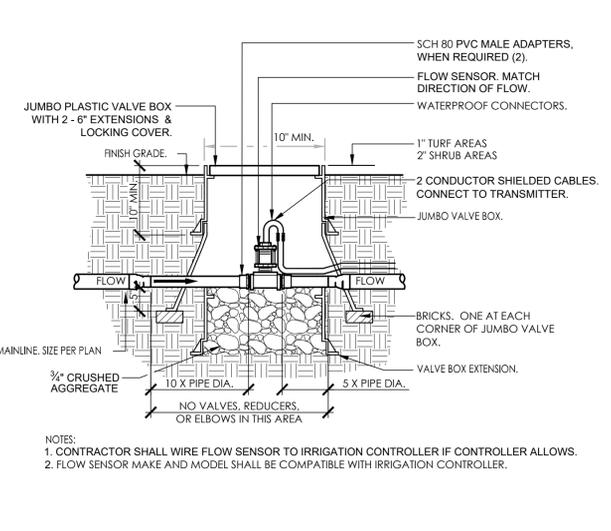
**2 MASTER VALVE**  
3/4" = 1'-0"  
RRM-2800-2883.01-50



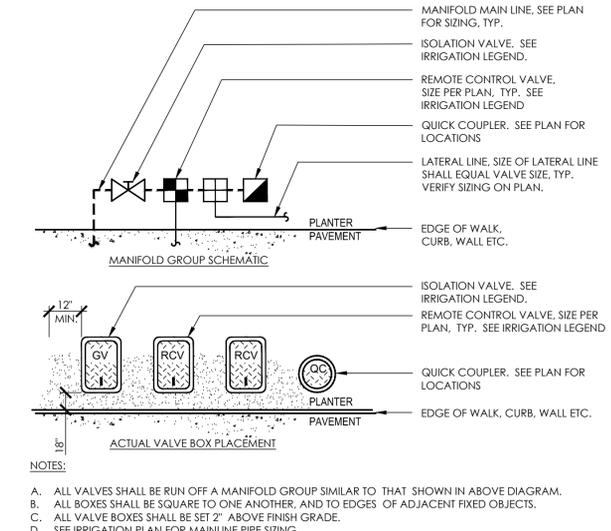
**10 TYPICAL DRIPLINE TUBING LAYOUT**  
1 1/2" = 1'-0"  
RRM-2800-2883.01-45



**7 DRIP ZONE CONTROL VALVE**  
1/2" = 1'-0"  
RRM-2800-2883.01-69



**4 FLOW SENSOR**  
3/4" = 1'-0"  
RRM-2800-2883.01-07



**1 VALVE BOX LAYOUT IN PLANTERS**  
3/8" = 1'-0"  
RRM-2800-2883.01-03

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PLAN CHECK REVISION 2



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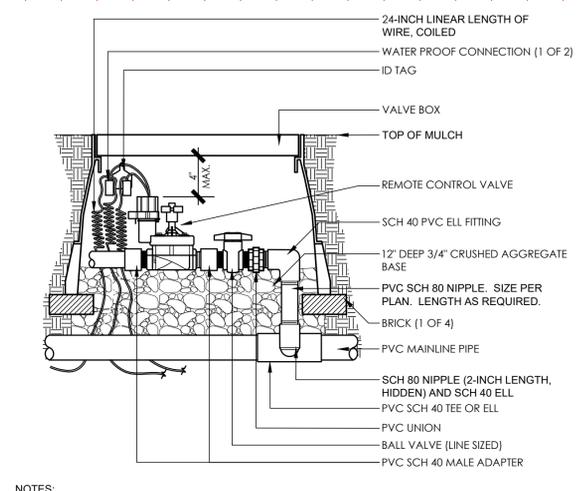
**FOURTH ST COMMUNITY  
CENTER AND PARK**  
HENDERSON AVE., PORTERVILLE, CA 93257  
IRRIGATION DETAILS

NO.	REVISION	DATE
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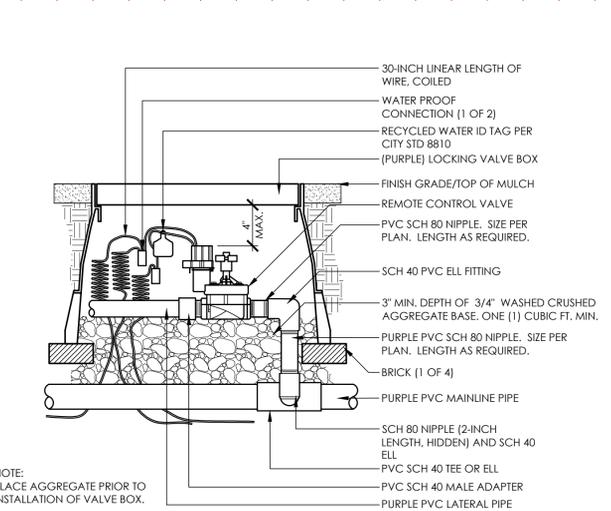
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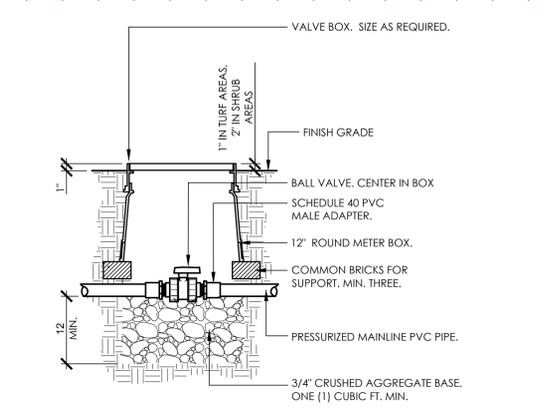
PLAN CHECK REVISION 2



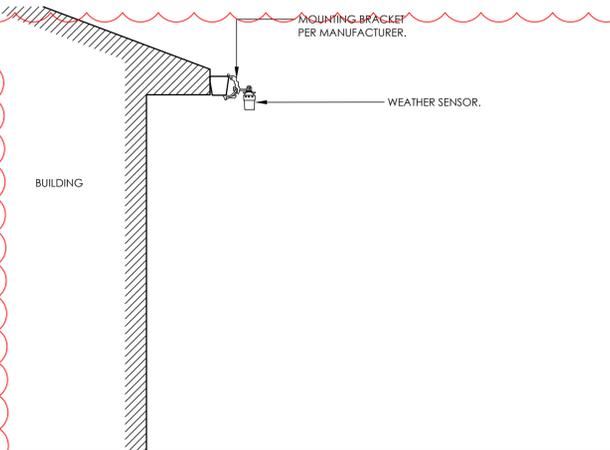
**3 REMOTE CONTROL VALVE**  
1" = 1'-0"  
RRM-2800-2883.01-74



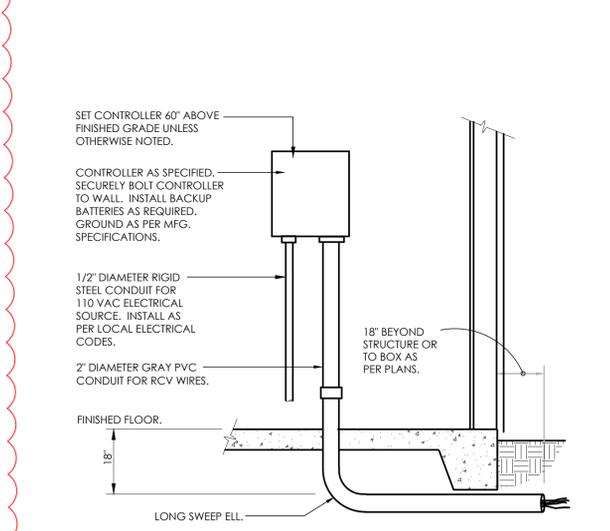
**5 REMOTE CONTROL VALVE (RECLAIMED WATER)**  
1" = 1'-0"  
RRM-2800-2883.01-75



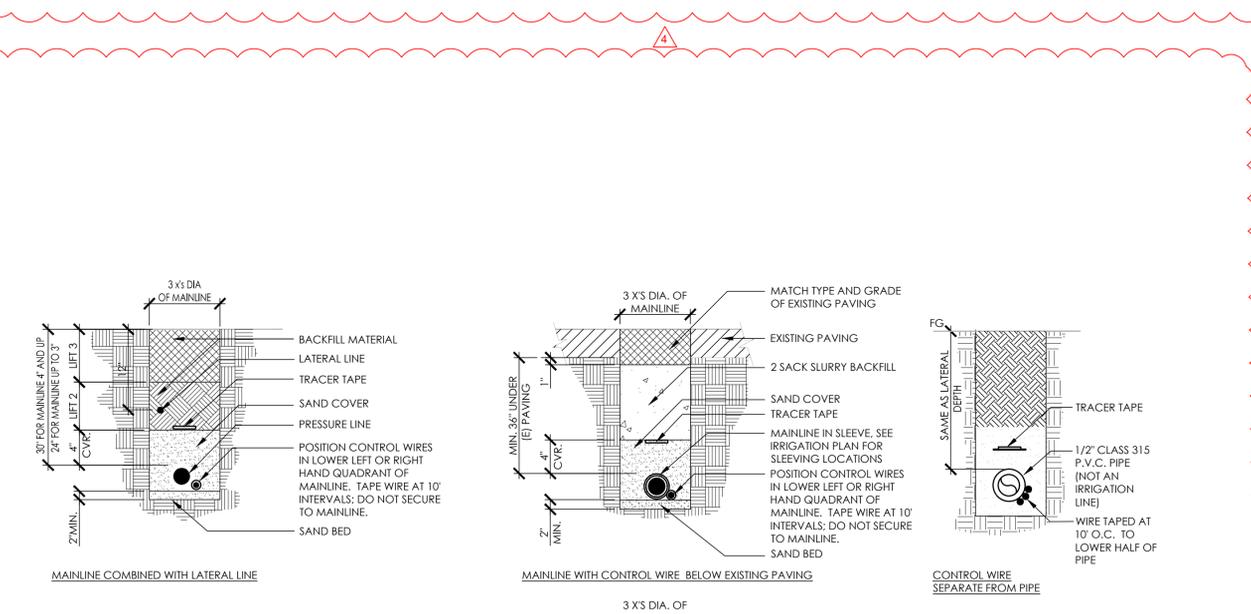
**6 BALL VALVE**  
1" = 1'-0"  
RRM-2800-2883.01-77



**2 WIRELESS WEATHER SENSOR**  
1/2" = 1'-0"  
RRM-2800-2883.01-67



**1 INTERIOR WALL MOUNT CONTROLLER**  
1" = 1'-0"  
RRM-2800-2883.01-09



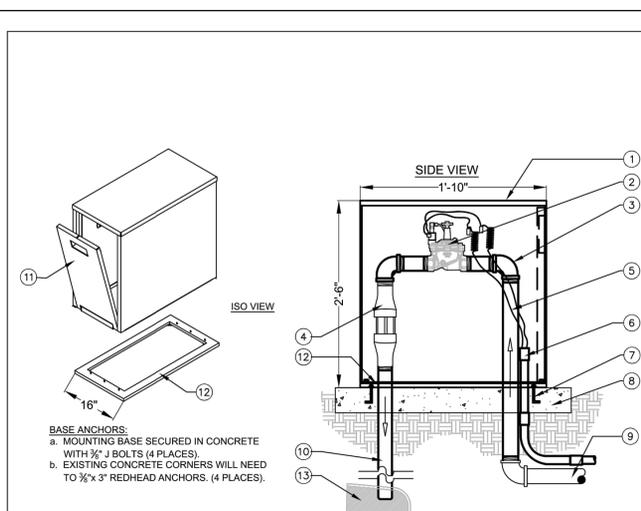
**4 TRENCHING**  
1" = 1'-0"  
RRM-2800-2883.01-76

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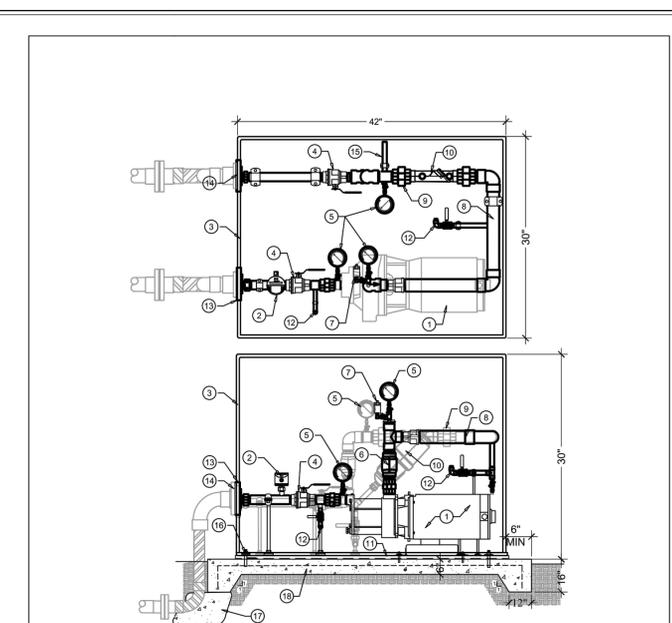
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- KEYNOTE LEGEND**
- |                                       |   |
|---------------------------------------|---|
| 1. ALUMINUM ENCLOSURE, 22"Wx30"Hx16"D | 8. POURED CONCRETE BASE - 6" MIN. THICKNESS - EXTEND 4" BEYOND OUTSIDE DIMENSIONS OF ENCLOSURE. |
| 2. 2" NORMALLY CLOSED BRASS VALVE     | 9. WATER SERVICE INLET PIPING   |
| 3. 2" PIPING PER PLAN                 | 10. WATER SERVICE OUTLET PIPING   |
| 4. 2" AIR GAP WITH 4" GAP             | 11. HINGED DROP DOWN DOOR, PADLOCK AT TOP.  |
| 5. PAIR OF 14 AWG WIRES TO CONTROLLER | 12. ANCHOR PLATE MOUNTING.  |
| 6. 3/2" CONDUIT FOR CONTROL WIRES     | 13. STORAGE TANK EDGE   |
| 7. 3/8" ANCHORS REFER TO NOTE ABOVE.  |   |

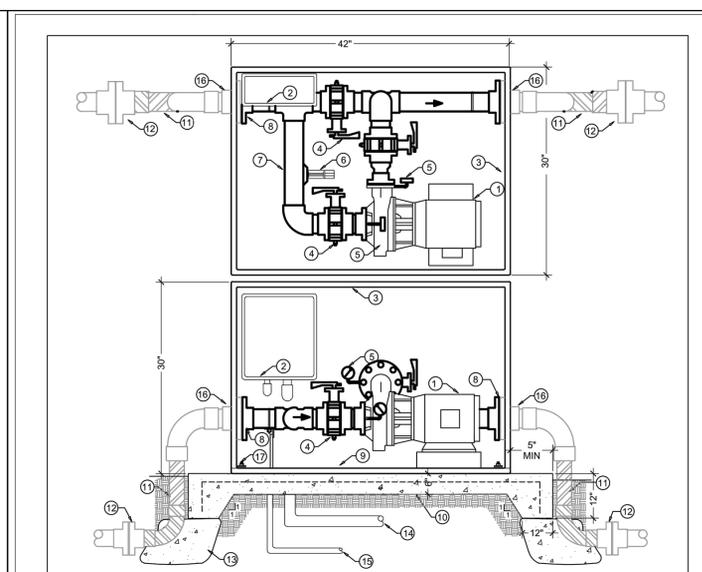
BARRETT ENGINEERED PUMPS	SIZE	DWG NO.	REV
SCALE		AIR GAP DETAIL	
		SHEET	

**2** BOOSTER PUMP 2  
NTS



- KEYNOTE LEGEND**
- |   |  |
|---|--|
| 1. CLOSE-COUPLED CENTRIFUGAL PUMP, STAINLESS STEEL FITTED.                  | 11. FABRICATED STRUCTURAL ALUMINUM BASEPLATE.  |
| 2. FLOW SWITCH, ADJUSTABLE, THERMAL DISPERSION WITH LED DISPLAY.            | 12. EXPANSION TANK PORT FOR OPTIONAL CONSTANT PRESSURE APPLICATION                                       |
| 3. MARINE GRADE ALUMINUM ENCLOSURE 35" x 42"                                | 13. STORAGE WATER SUPPLY   |
| 4. STAINLESS STEEL BALL VALVE.  | 14. PORT TO DEMAND   |
| 5. PRESSURE GAUGE, 2 1/2" DIAL, LIQUID FILLED, STAINLESS CASE, 0 - 200 PSI. | 15. FILTER FLUSHING PORT   |
| 6. STAINLESS STEEL CHECK VALVE.   | 16. (4) 1/2" DIA. KB-TZ SS 304, 2" MIN EMBEDMENT. INSTALL PER ICC-ESR 1917 TYP. EACH CORNER.             |
| 7. PRESSURE TRANSDUCER UNIT.  | 17. CONCRETE THRUST BLOCKS WHERE APPLICABLE  |
| 8. 2" SCH 10S 304 STAINLESS STEEL.  | 18. 6" THICK 3200 PSI CONCRETE PAD SET 2" ABOVE FINISH GRADE. USE #5 BAR 18" OC, BOTH WAYS AT MID-DEPTH. |
| 9. STAINLESS STEEL UNION.   | CONTROL PANEL AND VFD NOT SHOWN.   |
| 10. MANUAL CLEANING FILTER.   |  |

BARRETT ENGINEERED PUMPS	SIZE	DWG NO.	REV
SCALE		FOURTH ST. COMMUNITY CENTER & PARK	
		SHEET	



- KEYNOTE LEGEND**
- |  |   |
|--|---|
| 1. CLOSE-COUPLED END SUCTION CENTRIFUGAL PUMP, CAST IRON BRONZE FITTED, BACK PULLOUT DESIGN, MECHANICAL SEAL, ODP MOTOR.                 | 7. 2 1/4 INCH TYPE 304 STAINLESS STEEL.   |
| 2. NEMA 4 ENCLOSED CONTROL PANEL, WITH CIRCUIT BREAKER, MAGNETIC STARTER, HOA SWITCH, AND COMPONENTS FOR AUTOMATIC BOOSTER PUMP CONTROL. | 8. 150# ANSI RATED STAINLESS OUTPUT FLANGE.   |
| 3. MARINE GRADE ALUMINUM ENCLOSURE, TOP HINGED DESIGN WITH VENTING.  | 9. FABRICATED STRUCTURAL ALUMINUM BASEPLATE.  |
| 4. CAST IRON ELASTOMER LINED FULL LUG WAFER STYLE BUTTERFLY VALVE.   | 10. 6" THICK CONCRETE PAD SET 2" ABOVE FINISH GRADE. USE #5 BAR 18" OC, BOTH WAYS AT MID-DEPTH. CONCRETE MIX TO BE PER STRUCTURAL REQUIREMENTS. |
| 5. PRESSURE GAUGE, 2 1/2" DIAL, LIQUID FILLED, STAINLESS CASE, 0 - 200 PSI.  | 11. DOUBLE WRAP WITH 20 MIL PIPE WRAP TAPE.   |
| 6. FLOW SWITCH, THERMAL DISPERSION, 150 PSI RATED.   | 12. COMPANION FLANGE CONNECTION.  |
|  | 13. THRUST BLOCK OR JOINT RESTRAINT (BY OTHERS)   |
|  | 14. MAIN POWER CONDUIT.   |
|  | 15. IRRIGATION CONTROLLER SIGNAL CONDUIT.   |
|  | 16. CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL INLET AND OUTLET PIPING, BRASS OR CAST IRON  |
|  | 17. (4) 1/2" DIA. KB-TZ SS 304, 2" MIN EMBEDMENT. INSTALL PER ICC-ESR 1917 TYP. EACH CORNER.  |

BARRETT ENGINEERED PUMPS	SIZE	DWG NO.	REV
SCALE		FOURTH ST. COMMUNITY CENTER & PARK POTABLE	
		SHEET	

**1** BOOSTER PUMP 1  
NTS

PLAN CHECK REVISION 2

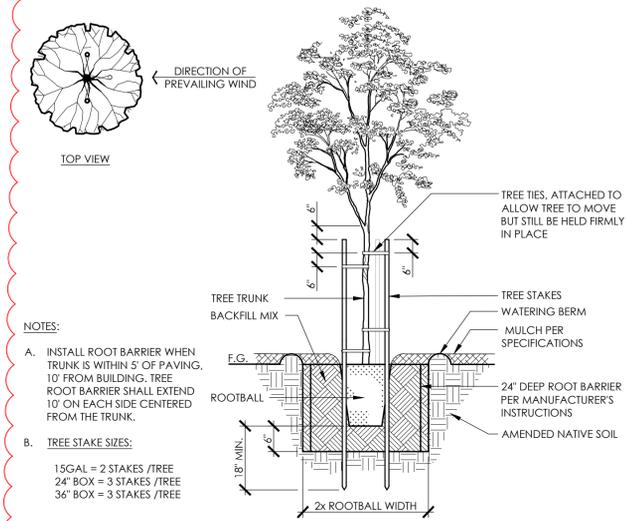
**FOURTH ST COMMUNITY CENTER AND PARK**  
IRRIGATION DETAILS  
HENDERSON AVE., PORTERVILLE, CA 93257

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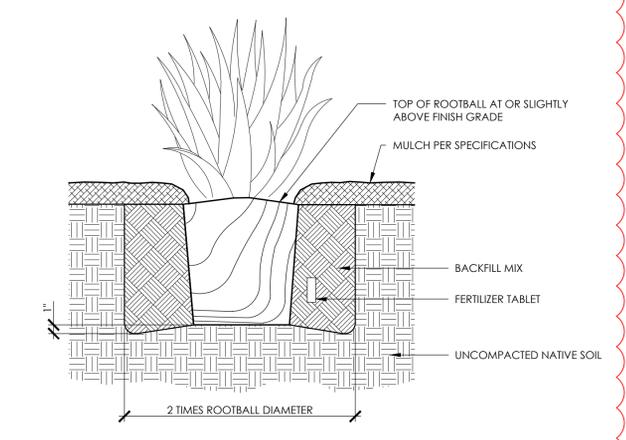
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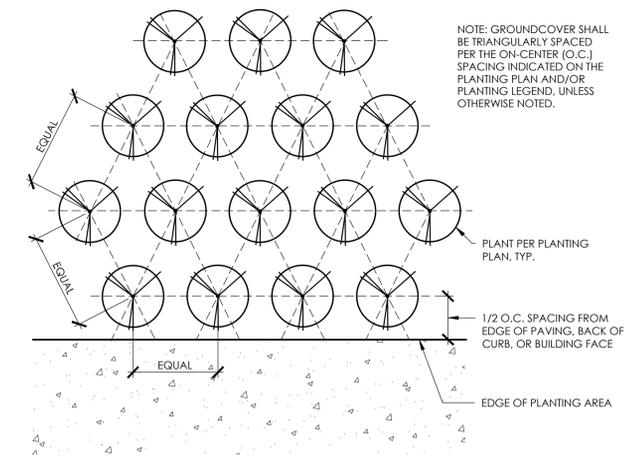
NOTES:

- A. INSTALL ROOT BARRIER WHEN TRUNK IS WITHIN 5' OF PAVING, 10' FROM BUILDING. TREE ROOT BARRIER SHALL EXTEND 10' ON EACH SIDE CENTERED FROM THE TRUNK.
- B. TREE STAKE SIZES:  
 15GAL = 2 STAKES /TREE  
 24" BOX = 3 STAKES /TREE  
 36" BOX = 3 STAKES /TREE

**3** TREE PLANTING WITH WOOD STAKING  
 1/2" = 1'-0" RRM-2800-2883.01-12



**2** SHRUB PLANTING  
 1 1/2" = 1'-0" RRM-2800-2883.01-05



**1** GROUNDCOVER SPACING  
 1 1/2" = 1'-0" RRM-2800-2883.01-11



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**FOURTH ST COMMUNITY CENTER AND PARK**  
 HENDERSON AVE., PORTERVILLE, CA 93257  
 PLANTING DETAILS

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 PROJECT NUMBER  
 2883-01-RC22  
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**LP501**

PLAN CHECK REVISION 2

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**FOURTH ST COMMUNITY CENTER AND PARK**  
HENDERSON AVE., PORTERVILLE, CA 93257  
ELEC. CODES, NOTES, SYMBOLS AND FIXTURE SCHEDULE

NO.	REVISION	DATE
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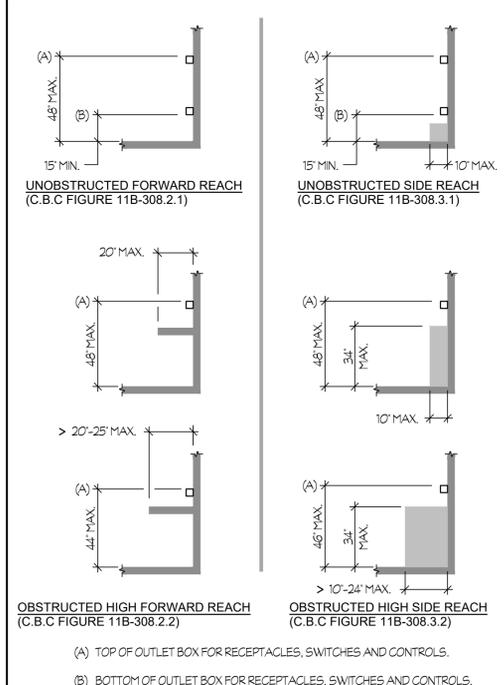
Rose Sing Eastham & Associates  
Electrical Consultants  
131 S. Dunwoody - (559) 733-2671  
Visalia, California 93292-6705

**TITLE 24, PART 6**

THE CALIFORNIA ENERGY EFFICIENCY STANDARDS FOR NONRESIDENTIAL BUILDINGS HAS BEEN REVIEWED AND THE BUILDING DESIGN DESCRIBED ON THESE PAGES IS IN SUBSTANTIAL CONFORMANCE.

**CODE, RULES AND REGULATIONS**

ALL WORK AND MATERIALS SHALL COMPLY WITH THE LATEST REGULATIONS OF THE STATE FIRE MARSHAL, CALIFORNIA CODE OF REGULATIONS, SERVING UTILITY COMPANIES AND OTHER APPLICABLE STATE ORDINANCES. NOTHING IN THESE PLANS OR SPECIFICATIONS IS TO BE CONSTRUED AS TO PERMIT WORK NOT CONFORMING TO THESE CODES. WHERE WORK OF A HIGHER DEGREE IS INDICATED IN THE PLANS OR SPECIFICATIONS THIS REQUIREMENT SHALL GOVERN.



**1 ELECTRICAL RECEPTACLE, SWITCH AND CONTROL HEIGHTS**

**MINIMUM BATTERY STORAGE RATED ENERGY CAPACITY**

PER BUILDING ENERGY EFFICIENCY STANDARDS EQUATION 140.10-B  
 $kWh_{(bat)} = kW (P_{vd}) \times B / (D \times 0.5)$   
 $kW (P_{vd}) = 7.47 kW$   
 $B = 1.87 (PER TABLE 140.10-B)$   
 $D = 0.965 (PER EG4 ELECTRONICS 15kWh BATTERY)$   
 $kWh_{(bat)} = 14.47$   
 MORE THAN 10 kWh

ELECTRICAL SYMBOLS	
ALL DIMENSIONS TO CENTER OF BOX, U.O.N.	
3-	CIRCUIT NUMBER (3-A-131)
-A-	FIXTURE TYPE (3-A-131)
-131	FIXTURE WATTAGE (3-A-131)
⊕	HOME RUN 3/4" C-MIN. (PANEL A, CIRCUIT #3)
⊖	CONDUIT RUN IN WALL OR ATTIC (1/2" C - 2 #12 AWG THWN + 1 #12 GND)
⊖	CONDUIT RUN IN FLOOR OR UG (1/2" C - 2 #12 AWG THWN + 1 #12 GND)
⊖	ANY CONDUIT RUN - 1/2" C - 3 #12 AWG THWN + 1 #12 GND
⊖	3/4" C - 4 #12 AWG THWN + 1 #12 GND
⊖	3/4" C - 5 #12 AWG THWN + 1 #12 GND
⊖	TC - 6 #12 AWG THWN + 1 #12 GND
→	CONDUIT STUB - CAPPED AND LABELED.
⊖	ELECTRICAL KEYNOTE #1, REFER TO NOTES ON SAME SHEET.
U.O.N.	UNLESS OTHERWISE NOTED
W.P.	WEATHERPROOF
P.D.	DENOTES BOUNDARY OF PRIMARY DAYLIGHT ZONE.
SDZ	DENOTES BOUNDARY OF SECONDARY DAYLIGHT ZONE.
SKDZ	DENOTES BOUNDARY OF SKY LIGHT DAYLIGHT ZONE.
⊖	TERMINAL CABINET (SIZE AS SHOWN)
⊖	ELECTRICAL PANELBOARD
⊖	DUPLEX RECEPTACLE IN WALL (15" MIN. TO BOTTOM OF BOX)
⊖	QUADRUPLX RECEPTACLE IN WALL (15" MIN. TO BOTTOM OF BOX)
⊖	G.F.C.I. DUPLEX RECEPTACLE IN WALL (15" MIN. TO BOTTOM OF BOX)
⊖	'CONTROLLED' DUPLEX RECEPTACLE IN WALL (15" MIN. TO BOTTOM OF BOX)
⊖	EMERGENCY LIGHT FIXTURE
⊖	EXIT LIGHT, WALL MOUNTED
⊖	EXIT LIGHT, CEILING MOUNTED
⊖	WALL MOUNTED LIGHT FIXTURE (MOUNT AS SHOWN)
⊖	CEILING MOUNTED LIGHT FIXTURE
⊖	RECESSED MOUNTED LIGHT FIXTURE IN CEILING
⊖	LIGHT FIXTURE
⊖	NETWORK CABLE - CATEGORY 5e CABLE, LENGTH AS REQUIRED
⊖	0-10V DIMMING CONTROL CABLE, LENGTH AS REQUIRED
⊖	LIGHT FIXTURE WITH LIGHT EMBEDDED CONTROLS
⊖	RECESSED MOUNTED LIGHT FIXTURE EQUIPPED WITH EMERGENCY BATTERY PACK
⊖	LIGHT FIXTURE EQUIPPED WITH EMERGENCY BATTERY PACK
⊖	POLE MOUNTED 'AREA' LIGHT FIXTURE
⊖	POLE MOUNTED 'AREA' LIGHT FIXTURES
⊖	OCCUPANCY SENSOR WALL SWITCH, LINE VOLTAGE (4'-0" MAX. TO TOP OF BOX, U.O.N.)
⊖	ON/OFF SWITCH WITH RAISE/LOWER DIMMING CONTROL (4'-0" MAX. TO TOP OF BOX, U.O.N.)
⊖	ON/OFF SWITCH WITH RAISE/LOWER DIMMING CONTROL (TWO CHANNELS) (4'-0" MAX. TO TOP OF BOX, U.O.N.)
⊖	ON/OFF SWITCH WITH RAISE/LOWER DIMMING CONTROL (FOUR CHANNELS) (4'-0" MAX. TO TOP OF BOX, U.O.N.)
⊖	LOW VOLTAGE POWER/RELAY PACK FOR RECEPTACLE CONTROLS MOUNTED IN ACCESSIBLE ATTIC SPACE, U.O.N.
⊖	LOW VOLTAGE POWER/RELAY PACK WITH 0-10V DC DIMMING OUTPUT FOR LIGHTING CONTROLS MOUNTED IN ACCESSIBLE ATTIC SPACE, U.O.N.
⊖	LOW VOLTAGE POWER/RELAY PACK FOR LIGHTING CONTROLS MOUNTED IN ACCESSIBLE ATTIC SPACE, U.O.N.
⊖	360° OCCUPANCY SENSOR (DUAL TECHNOLOGY), CEILING MOUNTED
⊖	360° OCCUPANCY SENSOR (DUAL TECHNOLOGY) WITH AUTOMATIC DIMMING CONTROL/PHOTOCELL, CEILING MOUNTED
⊖	HIGH BAY 360° OCCUPANCY SENSOR (PASSIVE INFRARED)
⊖	OCCUPANCY SENSOR WALL SWITCH, LOW VOLTAGE (4'-0" MAX. TO TOP OF BOX, U.O.N.)
⊖	ON/OFF SWITCH (4'-0" MAX. TO TOP OF BOX, U.O.N.)
⊖	ON/OFF DIGITAL KEY SWITCH WITH RAISE/LOWER DIMMING CONTROL (4'-0" MAX. TO TOP OF BOX, U.O.N.)
⊖	NETWORK LIGHTING CONTROLLER
⊖	NETWORK INTERFACE BRIDGE WITH POWER SUPPLY
⊖	GRAPHIC WALLPOD WITH POWER SUPPLY
⊖	JUNCTION BOX EQUIPPED WITH BLANK COVER
⊖	JUNCTION BOX EQUIPPED WITH BLANK COVER AND FLEX CONNECTION
⊖	MOTOR
⊖	HEAVY-DUTY FUSED SAFETY SWITCH
⊖	ADDRESSABLE SMOKE DETECTOR MOUNTED ON CEILING
⊖	ADDRESSABLE MONITOR MODULE
⊖	ADDRESSABLE DUAL MONITOR MODULE
⊖	ADDRESSABLE RELAY MODULE
⊖	ADDRESSABLE SUPERVISED CONTROL MODULE
⊖	ADDRESSABLE MANUAL PULL STATION
⊖	FIRE ALARM VISUAL STROBE, 15 CANDELA (WALL MOUNTED)
⊖	FIRE ALARM HORN/15 CANDELA VISUAL STROBE (WALL MOUNTED)
⊖	FIRE ALARM HORN/30 CANDELA VISUAL STROBE (WALL MOUNTED)
⊖	FIRE ALARM HORN/75 CANDELA VISUAL STROBE (WALL MOUNTED)
⊖	FIRE ALARM HORN/110 CANDELA VISUAL STROBE (WALL MOUNTED)
⊖	FIRE ALARM HORN/15 CANDELA VISUAL STROBE (CEILING MOUNTED)
⊖	FIRE ALARM HORN/30 CANDELA VISUAL STROBE (CEILING MOUNTED)
⊖	FIRE ALARM EXTERIOR HORN IN WALL
⊖	WATERFLOW SWITCH AT FIRE SPRINKLER RISER
⊖	TAMPER SWITCH AT FIRE DEPT. CONNECTION 'F.D.C.'
⊖	ELECTRIC BELL (FOR FIRE SPRINKLER RISERS)

**ELECTRICAL SYMBOLS NOTES:**

- (A) REFER TO FIRE ALARM DEVICES ELEVATION, DETAIL #1/E403 FOR RESPECTIVE MOUNTING HEIGHTS.
- (B) AT EXTERIOR LOCATIONS, PROVIDE WEATHER-RESISTANT/TAMPER-RESISTANT G.F.C.I. DUPLEX RECEPTACLES, LEVITON #5362-VTV OR EQUAL. AT DAMP LOCATIONS, PROVIDE A DIECAST WEATHERPROOF LOCKABLE COVER, RACO #5028-O OR EQUAL. AT WET LOCATIONS, PROVIDE A DIECAST WEATHERPROOF 'WHILE-IN-USE' LOCKABLE COVER, EXTRA-DUTY RATED, RED DOT #KLSUV OR EQUAL.
- (C) DUPLEX RECEPTACLE SHALL HAVE PRINTED WORDING 'CONTROLLED' AND THE SPECIFIC SYMBOL ⊖ ON THE FACE OF THE RECEPTACLE. LEVITON #5362-2PE OR EQUAL.
- (D) ACUITY CONTROLS #HWY2-GFX AND 150ma POWER SUPPLY #PS150 OR EQUAL.
- (E) ACUITY CONTROLS #HBRG-8-KIT OR EQUAL. REFER TO DETAIL #4/E502 FOR ADDITIONAL INFORMATION. PROVIDE A 4' SQ. x 1/8" DEEP OUTLET BOX FOR MOUNTING OF NETWORK INTERFACE BRIDGE AND POWER SUPPLY.
- (F) ACUITY CONTROLS #HECY-MVOLT-BAC-ADR-ENC-GFX OR EQUAL. REFER TO DETAIL #7/E502 FOR ADDITIONAL INFORMATION.
- (G) ACUITY CONTROLS #HCH-6 OR EQUAL.
- (H) ACUITY CONTROLS #HCAT 5e - J1 OR EQUAL. \* ASTERISK INDICATES LENGTH OF CABLE. CABLES ARE AVAILABLE IN 6', 1', 2', 5', 10', 15', 30', AND 50' LENGTHS.
- (HH) LIBERTY WIRE CABLE, INC #18-2C-LVB OR EQUAL.
- (I) LIGHT ENABLED LIGHT FIXTURE PER FIXTURE SCHEDULE ON SHEET #E101.
- (K) ACUITY CONTROLS #WSD-PDT-WH OR EQUAL. PROVIDE A DECORATOR STYLE STAINLESS STEEL WALLPLATE.
- (L) ACUITY CONTROLS #HPD-A-KEY-WH. PROVIDE A DECORATOR STYLE STAINLESS STEEL WALLPLATE.
- (M) ACUITY CONTROLS #HPDMA-DX-WH OR EQUAL. PROVIDE A DECORATOR STYLE STAINLESS STEEL WALLPLATE.
- (N) ACUITY CONTROLS #HPDMA-2P-DX-WH OR EQUAL. PROVIDE A DECORATOR STYLE STAINLESS STEEL WALLPLATE.
- (P) ACUITY CONTROLS #HPDMA-4P-DX-WH OR EQUAL. PROVIDE A DECORATOR STYLE STAINLESS STEEL WALLPLATE.
- (Q) ACUITY CONTROLS #HP20-PL OR EQUAL. CONNECT TO THE SAME 120V 'UNSWITCHED' RECEPTACLE CIRCUIT, AS THE POWER/RELAY PACK CONTROLS.
- (R) ACUITY CONTROLS #HPPI6-D-EFP OR EQUAL.
- (S) ACUITY CONTROLS #HPDMA-WH OR EQUAL. PROVIDE A DECORATOR STYLE STAINLESS STEEL WALLPLATE.
- (T) ACUITY CONTROLS #HCH-PDT-10-RJB OR EQUAL.
- (U) ACUITY CONTROLS #HWSA-PXT-LV-WH OR EQUAL. PROVIDE A DECORATOR STYLE STAINLESS STEEL WALLPLATE.
- (V) ACUITY CONTROLS #HCH-PDT-10-ADCX-RJB OR EQUAL.
- (W) ACUITY CONTROLS #HPPI6 OR EQUAL.

FIXTURE SCHEDULE							
FIXTURE SYMBOL (3-A-131); 3 = CIRCUIT NUMBER, A = FIXTURE TYPE, 131 = FIXTURE WATTAGE							
TYPE	WATTS	LAMPS	VOLT	MANUFACTURER	CATALOG NO.	MOUNT	NOTES
A	131	L.E.D.	120-277V	LITHONIA	JHL-18000LM-GL-WD-277V-6Z10-40K-80CR-VGX-DWH	PENDANT	PER #1/E506
AE	131	L.E.D.		LITHONIA	JHL-18000LM-GL-WD-277V-6Z10-40K-80CR-VGX-DWH-E15WCPFC	PENDANT	PER #1/E506 (1)
B	32	L.E.D.		LITHONIA	2BLT2-40L-ADP-MVOLT-WZ1-LP840-N100	FLUSH T-BAR	PER #10/E502
BE	32	L.E.D.		LITHONIA	2BLT2-40L-ADP-MVOLT-WZ1-LP840-N100-E10WLP	FLUSH T-BAR	PER #10/E502 (1)
C	27	L.E.D.		LITHONIA	STL4-30L-E2B-LP840-N100	SURFACE	PER #1/E502
CE	27	L.E.D.		LITHONIA	STL4-30L-E2B-LP840-N100-E10WLP	SURFACE	PER #1/E502 (1)
D	39	L.E.D.		LUMINAIRE	VPF8-4-MINO-40W-40K-MVOLT-CLP-WHT	SURFACE	PER #1/E502
DE	39	L.E.D.		LUMINAIRE	VPF8-4-MINO-40W-40K-MVOLT-CLP-WHT-EMB310T20	SURFACE	PER #1/E502 (1)
E	25	L.E.D.		GOTHAM	EV06SQ-40-25-AR-L55-MVOLT	RECESSED	PER #11/E502 (3)
EE	25	L.E.D.		GOTHAM	EV06SQ-40-25-AR-L55-MVOLT-E10WCP	RECESSED	PER #11/E502 (1), (3)
F4	32	L.E.D.		MARK ARCHITECTURAL LIGHTING	S2PD1LP-4FT-MSL4-80CR-40K-1000LF-SCT-MINIO-FLL-MVOLT-WHTT	SUSPEND	PER #4/E506 (4)
F4E	32	L.E.D.		MARK ARCHITECTURAL LIGHTING	S2PD1LP-4FT-MSL4-80CR-40K-1000LF-SCT-MINIO-FLL-MVOLT-WHTT-E10WLP	SUSPEND	PER #4/E506 (1), (4)
F8	64	L.E.D.		MARK ARCHITECTURAL LIGHTING	S2PD1LP-8FT-MSL4-80CR-40K-1000LF-SCT-MINIO-FLL-MVOLT-WHTT	SUSPEND	PER #4/E506 (4)
F8E	64	L.E.D.		MARK ARCHITECTURAL LIGHTING	S2PD1LP-8FT-MSL4-80CR-40K-1000LF-SCT-MINIO-FLL-MVOLT-WHTT-E10WLP	SUSPEND	PER #4/E506 (1), (4)
F12	96	L.E.D.		MARK ARCHITECTURAL LIGHTING	S2PD1LP-12FT-MSL4-80CR-40K-1000LF-SCT-MINIO-FLL-MVOLT-WHTT	SUSPEND	PER #4/E506 (4)
F12E	96	L.E.D.		MARK ARCHITECTURAL LIGHTING	S2PD1LP-12FT-MSL4-80CR-40K-1000LF-SCT-MINIO-FLL-MVOLT-WHTT-E10WLP	SUSPEND	PER #4/E506 (1), (4)
F16	128	L.E.D.		MARK ARCHITECTURAL LIGHTING	S2PD1LP-16FT-MSL4-80CR-40K-1000LF-SCT-MINIO-FLL-MVOLT-WHTT	SUSPEND	PER #4/E506 (4)
G	115	L.E.D.		KUZZO LIGHTING	BRUNI CH24755	PENDANT	PER #7/E506 (4)
H	26	L.E.D.		GOTHAM	EV04CC-40-25-AR-WD-L55-MVOLT	PENDANT	(4)
HE	26	L.E.D.		GOTHAM	EV04CC-40-25-AR-WD-L55-MVOLT-E10WCP	PENDANT	(4)
J	118	L.E.D.		ALLIED PRODUCTS	RSD-RCFL14-17000-40K-0T6-U-D10	RECESSED	PER #2/E506
JE	118	L.E.D.		ALLIED PRODUCTS	RSD-RCFL14-17000-40K-0T6-U-D10-EH2900	RECESSED	PER #2/E506
K	16	L.E.D.		MARK ARCHITECTURAL	MV504L-3L-8FT-MSL4-80CR-40K-1200LF-AR-MVOLT-S2W-NIGHT-NOFL	COVE	
B1	13	L.E.D.	120-277V	LITHONIA	RADB LED-P3-40K-ASY-MVOLT-BTIDBLXND-50CDBLXND-4P6-DBLXND	BOLLARD	PER #11/E503
L2	25	L.E.D.		LITHONIA	WST-LED-P2-40K-VF-MVOLT-DBLXND	WALL	EXTERIOR (4)
L2E	25	L.E.D.		LITHONIA	WST-LED-P2-40K-VF-MVOLT-DBLXND-E20WH	WALL	EXTERIOR (3), (4)
L3	20	L.E.D.		LUMINAIRE	VPF4-4FT-NODM-20-40K-MVOLT-CLP-BLK-WL	SURFACE	EXTERIOR, MOUNT ON BTM OF TRELLIS
L3E	20	L.E.D.		LUMINAIRE	VPF4-4FT-NODM-20-40K-MVOLT-CLP-BLK-WL-EMB310T20	SURFACE	EXTERIOR, MOUNT ON BTM OF TRELLIS (1)
L4	27	L.E.D.		TARGETTI	JE-R-10-DV-24-40-L-JEDUJMP-10-1U52749-1E3182	RECESSED IN WALL	
L5	51	L.E.D.		TARGETTI	JE-R-10-DV-48-40-L-JEDUJMP-10-1U52751-1E3182	RECESSED IN WALL	
S1	50	L.E.D.	120-277V	VALMONT	RESIDENTIAL 320 BRAZO (OR APPROVED EQUAL)	POLE	PER #6/E502
S2	138	L.E.D.		LITHONIA	DSX1-LED-P5-40K-BLC3 RPA-MVOLT-PRH-DBLXND	POLE	PER #2/E502 (2)
X	2	L.E.D.	120-277V	LITHONIA	LE-S-W-1-R-120/277-ELNSD	SURFACE	SINGLE FACE EXIT SIGN WITH EMERGENCY BATTERY PACK

**FIXTURE SCHEDULE NOTES:**

- (1) LIGHT FIXTURE SHALL BE EQUIPPED WITH AN EMERGENCY BATTERY PACK TO OPERATE THE L.E.D. DRIVER IN THE EMERGENCY MODE FOR A MINIMUM OF 90 MINUTES. PULL UNSWITCHED CIRCUIT TO EMERGENCY BATTERY PACK. REFER TO LIGHTING PLANS FOR EXACT LOCATIONS AND DETAIL PER #3/E502 FOR WIRING REQUIREMENTS.
- (2) SET FIXTURE TO DIM TO 50% AFTER FIRST 15 MINUTES, THEN TO OFF AT 30 MINUTES.
- (3) PROVIDE BAR HANGERS AS REQUIRED.
- (4) SEE LIGHTING PLANS FOR MOUNTING HEIGHTS.



CONSULTANT

AGENCY

**FOURTH ST COMMUNITY CENTER AND PARK**  
HENDERSON AVE., PORTERVILLE, CA 93257

**OUTDOOR LIGHTING COMPLIANCE**

PLAN CHECK REVISION 2

NO.	REVISION	DATE
5	ADDENDUM 6	12/20/24
△		
△		
△		
△		
△		

PROJECT MANAGER  
JJ

DRAWN BY  
CM

CHECKED BY  
JJ

DATE  
2024.01.15

PROJECT NUMBER  
2883-01-RC22

SHEET



Rose Sing Eastham & Associates  
Electrical Consultants  
131 S. Dunworth - (559) 733-2671  
Visalia, California 93292-6705

STATE OF CALIFORNIA  
**Outdoor Lighting**  
CALIFORNIA ENERGY COMMISSION

**CERTIFICATE OF COMPLIANCE** NRCC-LTO-E  
Project Name: PORTERVILLE COMMUNITY CENTER Report Page: (Page 7 of 8)  
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**M. LIGHTING ALLOWANCE: PER SPECIFIC AREA**  
This section does not apply to this project.

**N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)**  
This section does not apply to this project.

**O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION**  
Selections have been made based on information provided in this document. If any selection has been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online.

Form/Title: \_\_\_\_\_

NRCC-LTO-E - Must be submitted for all buildings.

**P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE**  
Selections have been made based on information provided in this document. If any selection has been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: <http://www.energy.ca.gov/title24/attcp/providers.html>

Form/Title: \_\_\_\_\_

Systems/Spaces To Be Field Verified: \_\_\_\_\_

NRCA-LTO-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls are added to <= 20 luminaires.

GENERAL HARDSCAPE: "L2, L2E"; GENERAL HARDSCAPE: "S2"; GENERAL HARDSCAPE: "B1"; GENERAL HARDSCAPE: "L3, L3E"; GENERAL HARDSCAPE: "L4"; GENERAL HARDSCAPE: "L5"

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**G. SHIELDING REQUIREMENTS (BUG)**  
This table includes fixtures of >=6,200 initial lumens indicated on Table F as needing to comply with Shielding Requirements. Maximum lumens can be found in Table 24, Part 11, Section 5.106.8.

01	02	03	04	05	06	07	08	09	10	11	12
Name or Item Tag	Complete Luminaire Description	Mounting Height <sup>1</sup>	Max Allowable Backlight Rating <sup>2</sup>	Backlight Rating Per Design	Lighting type	Max Allowable Uplight Rating <sup>1</sup>	Uplight Rating Per Design	Mounting Height <sup>1</sup>	Max Allowable Glare Rating <sup>3</sup>	Glare Rating Per Design	Field Inspector
S2	25' L.E.D. POLE LIGHT	2 MH from property line	No Limit	80	Area Lighting	U0	U0	> 2 MH from property line	G3	G3	□

<sup>1</sup> FOOTNOTES: Mounting Height is labeled MH in this table.  
<sup>2</sup> Authority having jurisdiction may ask for luminaire cut sheets or other documentation to confirm luminaire type, uplight ratings and glare ratings used for compliance per 130.2(b) / 160.5(c)  
<sup>3</sup> BUG ratings with a lower number than the "Max Allowable" are compliant. Ex. If Max Allowable is Bug Rating B4, then B0, B1, B2 and B3 are all compliant.

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**H. OUTDOOR LIGHTING CONTROLS**  
This table demonstrates compliance with controls requirements for all new or altered luminaires installed as part of the permit application. For alteration projects, luminaires which are existing to remain (ie untouched) and luminaires which are removed and reinstalled (wiring only) do not need to be included in this table even if they are within the spaces covered by the permit application.

Outdoor lighting for nonresidential buildings, parking garages and common service areas in multifamily buildings must be documented separately from outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit

**Mandatory Controls for Nonresidential Occupancies, Parking Garages & Common Areas in Multifamily Buildings**

01	02	03	04	05
Area Description	Shut-Off 130.2(c)(1) / 160.5(c)	Auto-Schedule 130.2(c)(2) / 160.5(c)	Motion Sensor 130.2(c)(3) / 160.5(c)	Field Inspector
GENERAL HARDSCAPE: "L2, L2E"	Astronomical Timer	Provided	NA: Each Luminaire <= 40 Watts	Pass Fail
GENERAL HARDSCAPE: "S2"	Astronomical Timer	Provided	Provided	Pass Fail
GENERAL HARDSCAPE: "B1"	Astronomical Timer	Provided	NA: Each Luminaire <= 40 Watts	Pass Fail
GENERAL HARDSCAPE: "L3, L3E"	Astronomical Timer	Provided	NA: Each Luminaire <= 40 Watts	Pass Fail
GENERAL HARDSCAPE: "L4"	Astronomical Timer	Provided	NA: Public Monument Lighting	Pass Fail
GENERAL HARDSCAPE: "L5"	Astronomical Timer	Provided	NA: Public Monument Lighting	Pass Fail

<sup>1</sup> FOOTNOTE: Text has been abbreviated, please refer to Table 160.5-A to confirm compliance with the specific light source technologies listed.  
<sup>2</sup> Authority having jurisdiction may ask for cut sheets or other documentation to confirm compliance of light source.  
<sup>3</sup> Recessed luminaires marked for use in fire-rated installations, and recessed luminaires installed in non-insulated ceilings are exempted from i and iii.

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**I. LIGHTING POWER ALLOWANCE (per 140.7 / 170.2(e))**  
This table includes areas using allowance calculations per 140.7 / 170.2(e). General Hardscape Allowance is per Table 140.7-A/ Table 170.2-A while "Use it or lose it" allowances are per Table 140.7-B / Table 170.2-S. Indicate which allowances are being used to expand sections for user input. Luminaires that qualify for one of the "Use it or lose it" allowances shall not qualify for another "Use it or lose it" allowance. Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H, and are not included here. All other multifamily outdoor lighting is included here.

Calculated General Hardscape Lighting Power Allowance per Table 140.7-A for Nonresidential & Hotel/Motel

02	03	04	05	06	07	08	09
Area Description	Area Wattage Allowance (AWA) Illuminated Area (ft²)	Area Allowance (Watts)	Perimeter Length (ft)	Linear Allowance (W/ft)	Linear Allowance (Watts)	Total General AWA + LWA (Watts)	Field Inspector
GENERAL HARDSCAPE	213013	0.021	4473.27	1975	395	4868.27	□
<b>Initial Wattage Allowance for Entire Site (Watts):</b> 250							
<b>Instances of Initial Wattage Allowance (Lz 0 only):</b>							
<b>Total General Hardscape Allowance (Watts):</b> 5118.27							

**J. LIGHTING ALLOWANCE: PER APPLICATION**  
This section does not apply to this project.

**K. LIGHTING ALLOWANCE: SALES FRONTAGE**  
This section does not apply to this project.

**L. LIGHTING ALLOWANCE: ORNAMENTAL**  
This section does not apply to this project.

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**A. GENERAL INFORMATION**

01 Project Location (city)	PORTERVILLE	04 Total Illuminated Hardscape Area (ft²)	213013
02 Climate Zone	13		
03 Outdoor Lighting Zone per Title 24 Part 1 10.114 or as designated by Authority Having Jurisdiction (AHJ):			
<input type="checkbox"/> LZ-0: Very Low - Undeveloped Parkland <input type="checkbox"/> LZ-2: Moderate - Urban Clusters <input type="checkbox"/> LZ-4: High - Must be reviewed by CA Energy Commission for Approval			
<input type="checkbox"/> LZ-1: Low - Rural Areas <input checked="" type="checkbox"/> LZ-3: Moderately High - Urban Areas			
05 Occupancy Types within Project			
• Gymnasium			

**B. PROJECT SCOPE**  
This table includes outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.7 / 170.2(e) or 141.0(b)(2) / 180.2(b)(4Bv) for alterations.

My Project Consists of:

01	02
<input checked="" type="checkbox"/> New Lighting System	Must Comply with Allowances from 140.7 / 170.2(e)6
<input type="checkbox"/> Altered Lighting System	Is your alteration increasing the connected lighting load (Watts)? <input type="radio"/> Yes <input checked="" type="radio"/> No
03	04
% of Existing Luminaires Being Altered <sup>1</sup>	Sum Total of Luminaires Being Added or Altered
<input type="checkbox"/> < 10% <input type="checkbox"/> >= 10% and < 50% <input type="checkbox"/> >= 50%	Calculation Method

Please proceed to Table F. Outdoor Lighting Fixture Schedule to define the project's luminaires.

<sup>1</sup> FOOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100.

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**C. COMPLIANCE RESULTS**  
Results in this table are automatically calculated from data input and calculations in Tables F through N. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.

Calculations of Total Allowed Lighting Power (Watts) 140.7 / 170.2(e)6 or 141.0(b)(2) / 180.2(b)(4Bv)

01	02	03	04	05	06	07	08	09
General Hardscape Allowance 140.7(e)1 / 170.2(e)6 (See Table I)	Per Application 140.7(d)2 / 170.2(e)6 (See Table J)	Sales Frontage 140.7(j)2 (See Table K)	Ornamental 140.7(d)2 / 170.2(e)6 (See Table L)	Per Specific Area 140.7(d)2 / 170.2(e)6 (See Table M)	OR Existing Power Allowance 141.0(b)(2) / 180.2(b)(4Bv) (See Table N)	Total Allowed (Watts)	Total Actual (Watts)	07 must be >= 08
5,118.27	---	---	---	---	OR	5,118.27	≥	3,146
Shielding Compliance (See Table G for Details)								COMPLIES
Controls Compliance (See Table H for Details)								COMPLIES

**D. EXCEPTIONAL CONDITIONS**  
This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

**E. ADDITIONAL REMARKS**  
This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

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STATE OF CALIFORNIA  
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**F. OUTDOOR LIGHTING FIXTURE SCHEDULE**  
For new or altered lighting systems demonstrating compliance with 140.7 / 170.2(e)6 all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per 141.0(b)(2) only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (ie, existing luminaires remaining or existing luminaires being moved are not included). Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H, and are not included here. All other multifamily outdoor lighting is included here.

Designed Wattage:

01	02	03	04	05	06	07	08	09	10
Name or Item Tag	Complete Luminaire Description	Watts per luminaire <sup>1,2</sup>	How is Wattage determined	Total Number Luminaires <sup>1</sup>	Luminaire Status <sup>3</sup>	Excluded per 140.7(a) / 170.2(e)6A	Design Watts	Cutoff Req. > 6,200 lumens	Field Inspector
L2, L2E	L.E.D. WALL PACK	Linear	Mfr. Spec	19	New	□	475	NA: < 6200 lumens	□
S2	25' L.E.D. POLE LIGHT	Linear	Mfr. Spec	8	New	□	1,104	Provided	□
B1	L.E.D. WALKWAY BOLLARD	Linear	Mfr. Spec	9	New	□	117	NA: < 6200 lumens	□
L3, L3E	VANDAL RESISTANT 4' LINEAR L.E.D.	Linear	Mfr. Spec	11	New	□	220	NA: < 6200 lumens	□
L4	2' L.E.D. WALL LIGHT	Linear	Mfr. Spec	4	New	□	108	NA: < 6200 lumens	□
L5	4' L.E.D. WALL LIGHT	Linear	Mfr. Spec	22	New	□	1,122	NA: < 6200 lumens	□
<b>Total Design Watts:</b> 3146									

<sup>1</sup> NOTES: Selections with a \* require a note in the space below explaining how compliance is achieved.  
EX: Luminaire is lighting a statue; EXCEPTION 2 to 130.2(b)

<sup>2</sup> FOOTNOTES: Authority Having Jurisdiction may ask for luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b)  
<sup>3</sup> For linear luminaires, wattage should be indicated as W/ft instead of Watts/luminaire. Total linear feet should be indicated in column 05 instead of number of luminaires.  
<sup>4</sup> Select "New" for new luminaires in a new outdoor lighting project, or for added luminaires in an alteration. Select "Altered" for replacement luminaires in an alteration. Select "Existing to Remain" for existing luminaires within the project scope that are not being altered and are remaining. Select "Existing Reinstalled" for existing luminaires which are being removed and reinstalled as part of the project scope.  
<sup>5</sup> Compliance with mandatory shielding requirements is required for luminaires with initial lumen output >= 6,200 unless exempted by 130.2(b) / 160.5(c)

Generated Date/Time: \_\_\_\_\_ Documentation Software: Energy Code Ace  
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 127474-0624-0018 Schema Version: rev 20220101 Report Generated: 2024-06-05 08:30:18

F:\Working\Jobs\065\City of Porterville\Fourth Street Community Center & Park\065\Drawn DAE SWMS 11/21/24 BH Copy DWG F:\065\Drawn DAE SWMS 12/20/24 DAE F 22-15-JJ





rrm design group
3765 SOUTH HIGUERA STREET, SUITE 102
SAN LUIS OBISPO, CA 93401

CONSULTANT

AGENCY

FOURTH ST COMMUNITY CENTER AND PARK
HENDERSON AVE., PORTERVILLE, CA 93257
SOLAR AND BATTERY COMPLIANCE

Table with 3 columns: NO., REVISION, DATE. Row 1: 5, ADDENDUM 6, 12/20/24

PROJECT MANAGER JJ
DRAWN BY CM CHECKED BY JJ
DATE 2024.01.15
PROJECT NUMBER 2883-01-RC22
SHEET

EG105

PLAN CHECK REVISION 2



Rose Sing Eastham & Associates
Electrical Consultants
131 S. Dunworth - (559) 733-2671
Visalia, California 93292-6705

STATE OF CALIFORNIA CALIFORNIA ENERGY COMMISSION
Solar And Battery
CERTIFICATE OF COMPLIANCE
Project Name: PORTERVILLE COMMUNITY CENTER
Report Page: (Page 5 of 6)
Date Prepared: 2024-06-07T08:28:53-04:00

STATE OF CALIFORNIA CALIFORNIA ENERGY COMMISSION
Solar And Battery
CERTIFICATE OF COMPLIANCE
Project Name: PORTERVILLE COMMUNITY CENTER
Report Page: (Page 6 of 6)
Date Prepared: 2024-06-07T08:28:53-04:00

STATE OF CALIFORNIA CALIFORNIA ENERGY COMMISSION
Solar And Battery
CERTIFICATE OF COMPLIANCE
Project Name: PORTERVILLE COMMUNITY CENTER
Report Page: (Page 3 of 6)
Date Prepared: 2024-06-07T08:28:53-04:00

STATE OF CALIFORNIA CALIFORNIA ENERGY COMMISSION
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Project Name: PORTERVILLE COMMUNITY CENTER
Report Page: (Page 4 of 6)
Date Prepared: 2024-06-07T08:28:53-04:00

STATE OF CALIFORNIA CALIFORNIA ENERGY COMMISSION
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Report Page: (Page 1 of 6)
Date Prepared: 2024-06-07T08:28:53-04:00

STATE OF CALIFORNIA CALIFORNIA ENERGY COMMISSION
Solar And Battery
CERTIFICATE OF COMPLIANCE
Project Name: PORTERVILLE COMMUNITY CENTER
Report Page: (Page 2 of 6)
Date Prepared: 2024-06-07T08:28:53-04:00

2:\working\joe\083\City of Porterville\Fourth Street Community Center & Park\EG105.dwg DAE SAVED: 11/27/24 8:11 AM DWG PLOTTED: 12/20/24 4:08 PM 22-15-J

CONSULTANT

AGENCY

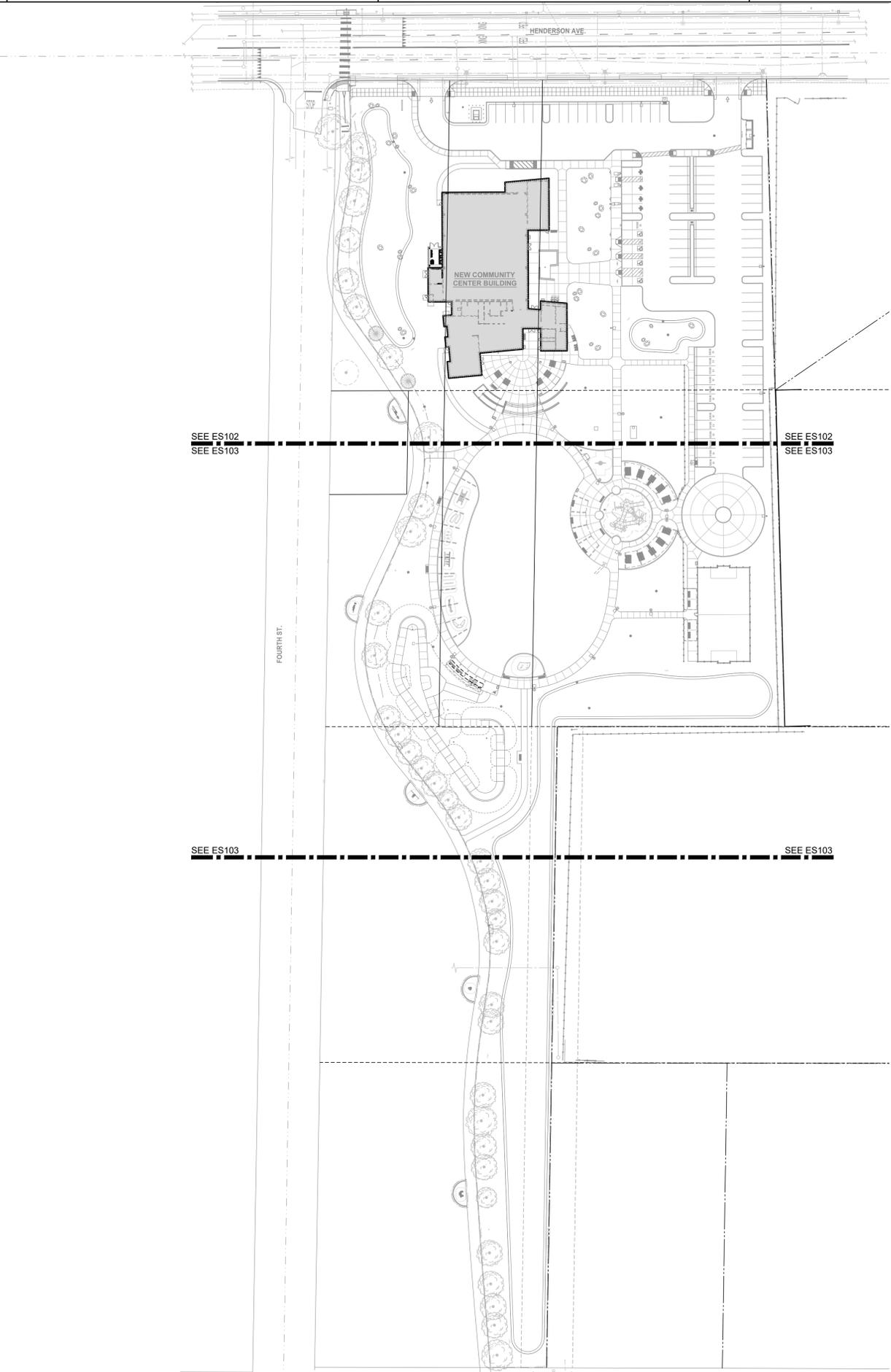
**FOURTH ST COMMUNITY CENTER AND PARK**  
HENDERSON AVE., PORTERVILLE, CA 93257  
**OVERALL SITE ELECTRICAL PLAN**

NO.	REVISION	DATE
5	ADDENDUM 6	12/20/24
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PROJECT MANAGER  
JJ  
DRAWN BY  
CM  
CHECKED BY  
JJ  
DATE  
2024.01.15  
PROJECT NUMBER  
2883-01-RC22  
SHEET



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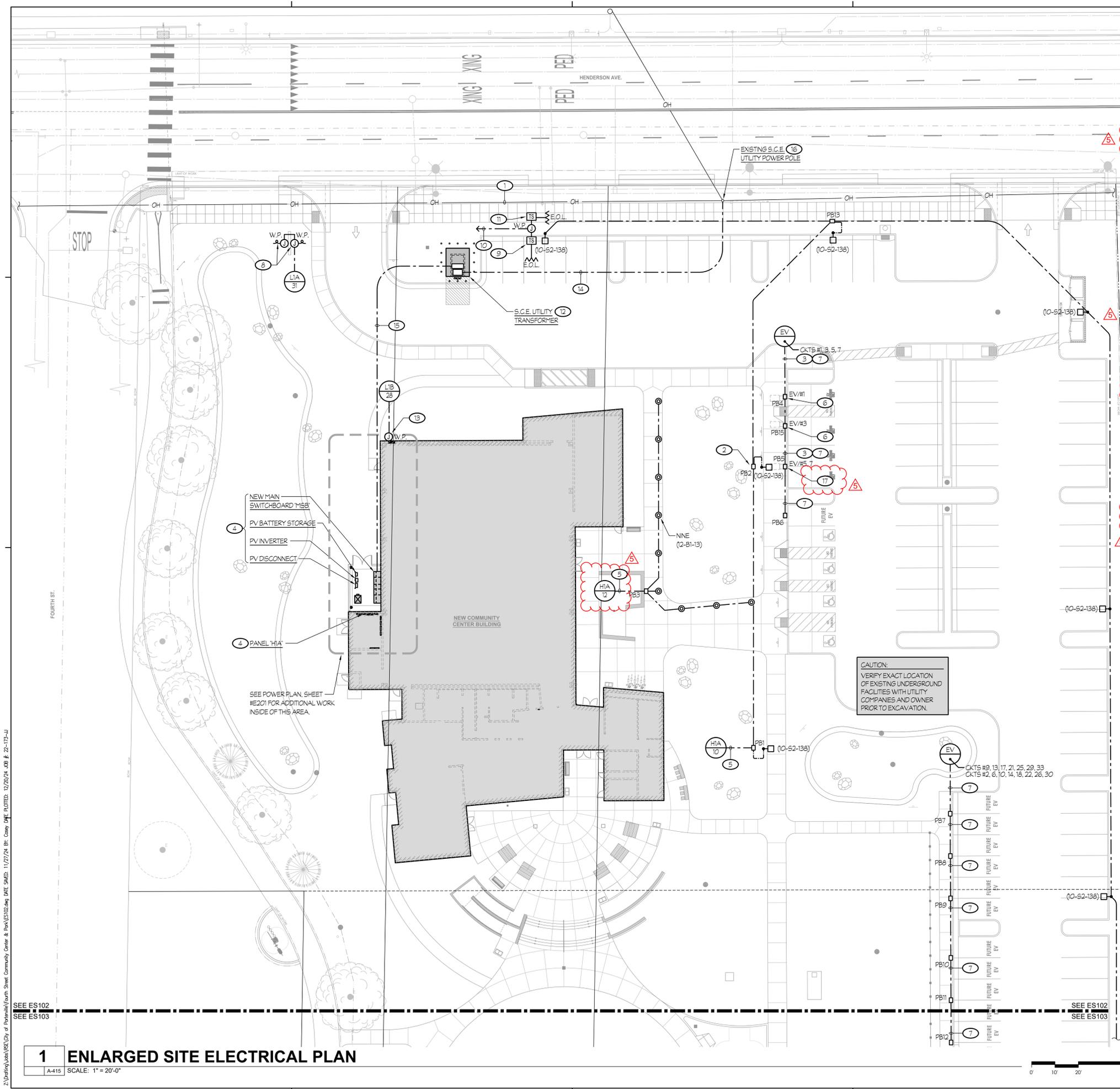
**1 OVERALL SITE ELECTRICAL PLAN**

A415 SCALE: 1" = 60'-0"



PLAN CHECK REVISION 2

**ES101**



- NOTES (THIS SHEET ONLY):**
- 1 OH DENOTES EXISTING 'OVERHEAD' UTILITY LINES. TYPICAL. U.O.N.
  - 2 PULL BOX PER DETAILS H3/E503 AND H4/E503. TYPICAL. U.O.N.
  - 3 FEEDER PER ONE LINE DIAGRAM. H1/E501.
  - 4 SEE POWER PLAN, SHEET #E201 FOR EXACT LOCATION AND REQUIREMENTS.
  - 5 ROUTE CIRCUIT THROUGH LIGHTING CONTROL PANEL 'LCP'.
  - 6 CONNECT E.V. CHARGING STATION CHARGEPOINT #CP6011B-50A-L5.5 PER DETAIL #5/E506.
  - 7 SPARE CONDUITS FOR FUTURE E.V. CHARGING STATIONS PER ONE LINE DIAGRAM. H1/E501.
  - 8 CONNECT INTERNALLY LIT SIGN LIGHT. COORDINATE REQUIREMENTS WITH SUPPLIER.
  - 9 CONNECT TAMPER SWITCH AT DOUBLE DETECTOR CHECK VALVE. RUN 1/2" LIQUIDTIGHT FLEXIBLE METALLIC CONDUIT WITH 4 #14 INSIDE TO TAMPER SWITCH AND PROVIDE AN END-OF-LINE RESISTOR 'E.O.L.'. SECURE CONDUIT TO PIPING WITH 1/2" WIDE STAINLESS STEEL STRAPPING. PROVIDE A TWO-DEVICE DIECAST WEATHERPROOF JUNCTION BOX WITH A BLANK GASKETED COVER AND MOUNT AT -6" A.F.G. PROVIDE AN ADDITIONAL GALVANIZED RIGID STEEL CONDUIT, MINIMUM OF 24" LONG, WRAPPED WITH PVC TAPE TO SUPPORT WEATHERPROOF JUNCTION BOX. COORDINATE EXACT LOCATION WITH FIRE SPRINKLER CONTRACTOR PRIOR TO ROUGH-IN.
  - 10 RUN 3/4" - 4 #14 TO DUAL MONITOR MODULES' 1-36" AND' 1-36" ROOM #116.
  - 11 CONNECT TAMPER SWITCHES AT THE O.S.B.Y. VALVES LOCATED ON THE DOUBLE CHECK DETECTOR/BACKFLOW PREVENTER ASSEMBLY. RUN 1/2" LIQUIDTIGHT FLEXIBLE METALLIC CONDUIT WITH 2 #14 INSIDE TO EACH TAMPER SWITCH AND PROVIDE AN END-OF-LINE RESISTOR 'E.O.L.' AT EACH TAMPER SWITCH. SECURE CONDUIT TO PIPING WITH 1/2" WIDE STAINLESS STEEL STRAPPING. PROVIDE A TWO-DEVICE DIECAST WEATHERPROOF JUNCTION BOX WITH A BLANK GASKETED COVER AND MOUNT AT -6" A.F.G. PROVIDE AN ADDITIONAL GALVANIZED RIGID STEEL CONDUIT, MINIMUM OF 24" LONG, WRAPPED WITH PVC TAPE TO SUPPORT WEATHERPROOF JUNCTION BOX. COORDINATE EXACT LOCATION WITH FIRE SPRINKLER CONTRACTOR PRIOR TO ROUGH-IN.
  - 12 PROVIDE A 10 X 12 CONCRETE TRANSFORMER PAD, GROUNDING AND BARRIER POSTS PER S.C.E. REQUIREMENTS.
  - 13 CONNECT IRRIGATION CONTROLLER, 120V.
  - 14 ONE 5"C (S.C.E. 'PRIMARY') PER S.C.E. REQUIREMENTS.
  - 15 ONE 4"C (S.C.E. 'SECONDARY') PER S.C.E. REQUIREMENTS.
  - 16 EXISTING S.C.E. POWER POLE. VERIFY EXACT LOCATION AND RISER QUADRANT WITH S.C.E. PRIOR TO ROUGH-IN.
  - 17 CONNECT E.V. CHARGING STATION CHARGEPOINT #CP6021B-50A-L5.5 PER DETAIL #8/E506.

P:\working\005\005\City of Porterville\Fourth Street Community Center & Park\EST102.dwg DATE: 01/22/24 BY: Casey CMPE PLUMBER: 12/20/24 L&B # 22-115-JJ  
 SEE ES102  
 SEE ES103

**1 ENLARGED SITE ELECTRICAL PLAN**  
 SCALE: 1" = 20'-0"

Rose Sing Eastham & Associates  
 Electrical Consultants  
 131 S. Dunworth - (559) 733-2671  
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 AGENCY

**FOURTH ST COMMUNITY CENTER AND PARK**  
 HENDERSON AVE., PORTERVILLE, CA 93257  
**ENLARGED SITE ELECTRICAL PLAN**

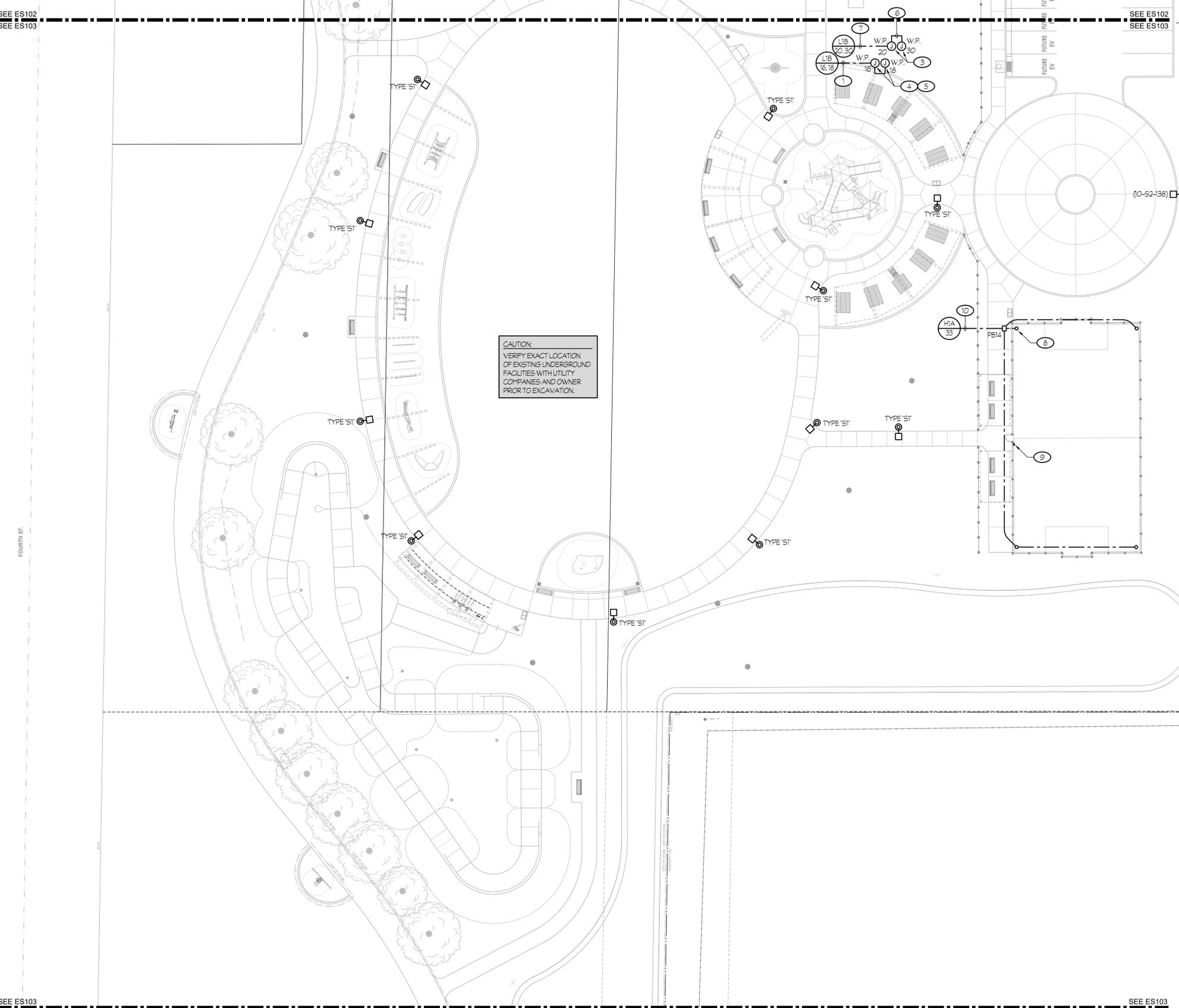
NO.	REVISION	DATE
5	ADDENDUM 6	12/20/24
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PLAN CHECK REVISION 2

PROJECT MANAGER	JJ
DRAWN BY	CM
CHECKED BY	JJ
DATE	2024.01.15
PROJECT NUMBER	2883-01-RC22
SHEET	ES102

P:\Working\1005\1005 City of Porterville\Fourth Street Community Center & Park\ES103.dwg DATE: 08/22/24 BY: Casey CMPE PLT/DB 12/20/24 L&B # 22-15-JJ

SEE ES102  
SEE ES103



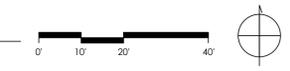
**CAUTION:**  
VERIFY EXACT LOCATION  
OF EXISTING UNDERGROUND  
FACILITIES WITH UTILITY  
COMPANIES AND OWNER  
PRIOR TO EXCAVATION.

- NOTES (THIS SHEET ONLY):**
- 1 TC - 3#6 + 1#10 GND.
  - 2 ROUTE CIRCUIT THROUGH LIGHTING CONTROL PANEL 'LCP'.
  - 3 CONNECT BOOSTER PUMP, 208V, 1ph.
  - 4 CONTRACTOR TO SPLICE DOWN TO #10 CONDUCTORS FOR FINAL CONNECTIONS.
  - 5 CONNECT SPLASH PAD CONTROLLERS, 120V.
  - 6 3/4" - 2#8 + 1#10 GND.
  - 7 TC - 4#8 + 1#10 GND.
  - 8 FIXTURE SUPPLIED WITH MINI PITCH SYSTEM, TYPICAL OF 4.
  - 9 PROVIDE 0-2HR TIMER SWITCH IN NEMA 3R ENCLOSURE. MOUNT ON BACKBOARD ADJACENT TO DOOR OPENING AT +48' A.F.G..
  - 10 ROUTE CIRCUIT THROUGH TIMER AT KEYNOTE #9.

SEE ES103

SEE ES103

**1 ENLARGED SITE ELECTRICAL PLAN**  
A-415 SCALE: 1" = 20'-0"



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PLAN CHECK REVISION 2

NO.	REVISION	DATE
5	ADDENDUM 6	12/20/24
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PROJECT MANAGER	
JJ	
DRAWN BY	CHECKED BY
CM	JJ
DATE	
2024.01.15	
PROJECT NUMBER	
2883-01-RC22	
SHEET	

**ES103**

**rrm design group**  
 rrmdesign.com | (805) 543-1794  
 3765 SOUTH HIGUERA STREET, SUITE 102  
 SAN LUIS OBISPO, CA 93401  
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**FOURTH ST COMMUNITY CENTER AND PARK**  
 HENDERSON AVE., PORTERVILLE, CA 93257  
**ENLARGED SITE ELECTRICAL PLAN**

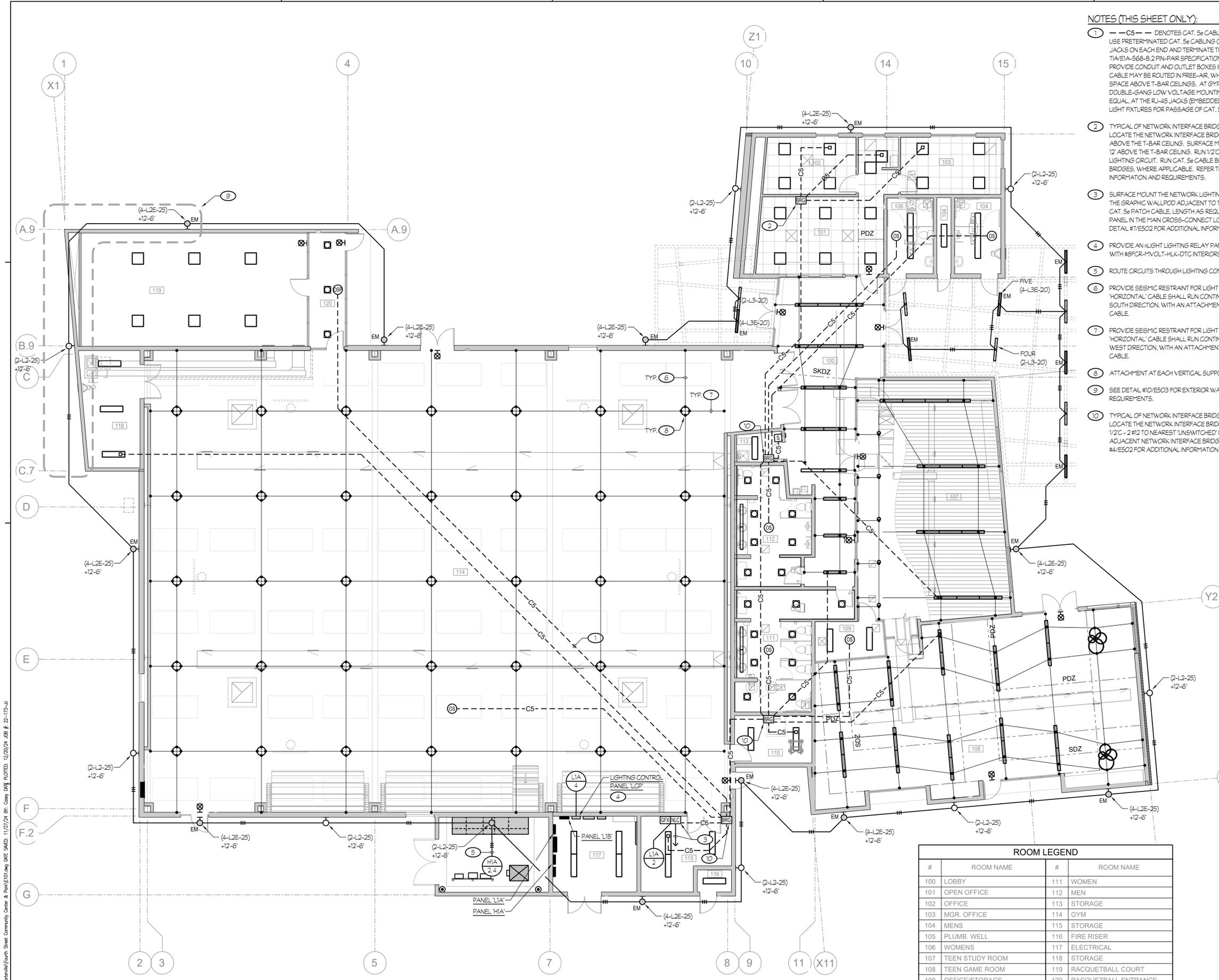


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NOTES (THIS SHEET ONLY):

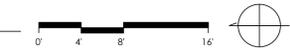
- 1 --- C5 --- DENOTES CAT. 5e CABLE. ELECTRICAL CONTRACTOR MAY USE PRETERMINATED CAT. 5e CABLE OR PROVIDE CAT. 5e CABLE, MODULAR JACKS ON EACH END AND TERMINATE THE MODULAR JACKS USING THE TIA/EIA-568-B.2 PIN-PAIR SPECIFICATION. ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT AND OUTLET BOXES IN WALLS FOR ROUTING OF CABLES. CABLE MAY BE ROUTED IN FREE-AIR, WHEN LOCATED IN ACCESSIBLE ATTIC SPACE ABOVE T-BAR CEILING. AT GYPSUM BOARD CEILING, PROVIDE A DOUBLE-GANG LOW VOLTAGE MOUNTING PLATE BRACKET, CADDY #MPL52 OR EQUAL, AT THE RJ-45 JACKS (EMBEDDED CONTROLS) OF THE SURFACE MOUNTED LIGHT FIXTURES FOR PASSAGE OF CAT. 5e CABLEING.
- 2 TYPICAL OF NETWORK INTERFACE BRIDGE (SYMBOL BRG); LOCATE THE NETWORK INTERFACE BRIDGE IN THE ACCESSIBLE ATTIC SPACE ABOVE THE T-BAR CEILING. SURFACE MOUNT ON THE WALL AT A MINIMUM OF 12" ABOVE THE T-BAR CEILING. RUN 1/2" - 2 #12 TO NEAREST UNSWITCHED LIGHTING CIRCUIT. RUN CAT. 5e CABLE BETWEEN ADJACENT NETWORK INTERFACE BRIDGES, WHERE APPLICABLE. REFER TO DETAIL #4/E502 FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
- 3 SURFACE MOUNT THE NETWORK LIGHTING CONTROLLER 'NLC' AT 42" A.F.F. LOCATE THE GRAPHIC WALLPAPER ADJACENT TO THE NETWORK CONTROLLER. RUN TC - ONE CAT. 5e PATCH CABLE, LENGTH AS REQUIRED, FROM THE NLC TO THE EXISTING PATCH PANEL IN THE MAIN CROSS-CONNECT LOCATED IN THE ELECTRICAL ROOM. REFER TO DETAIL #7/E502 FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
- 4 PROVIDE AN LIGHT LIGHTING RELAY PANEL (LIGHT HARPCENCO8-SM ENCLOSURE WITH #5FCR-MVOLT-HLK-DTC INTERIORS).
- 5 ROUTE CIRCUITS THROUGH LIGHTING CONTROL PANEL 'LCP'.
- 6 PROVIDE SEISMIC RESTRAINT FOR LIGHT FIXTURES PER DETAIL #9/E503. TYPICAL. THE HORIZONTAL CABLE SHALL RUN CONTINUOUS, FROM WALL TO WALL IN THE NORTH/SOUTH DIRECTION, WITH AN ATTACHMENT AT EACH WALL AND AT EACH VERTICAL CABLE.
- 7 PROVIDE SEISMIC RESTRAINT FOR LIGHT FIXTURES PER DETAIL #3/E506. TYPICAL. THE HORIZONTAL CABLE SHALL RUN CONTINUOUS, FROM WALL TO WALL IN THE EAST/WEST DIRECTION, WITH AN ATTACHMENT AT EACH WALL AND AT EACH VERTICAL CABLE.
- 8 ATTACHMENT AT EACH VERTICAL SUPPORT CABLE PER DETAIL #3/E506.
- 9 SEE DETAIL #10/E503 FOR EXTERIOR WALL LIGHT LOCATIONS AND CONNECTION REQUIREMENTS.
- 10 TYPICAL OF NETWORK INTERFACE BRIDGE (SYMBOL BRG); LOCATE THE NETWORK INTERFACE BRIDGE SURFACE MOUNTED HIGH ON WALL. RUN 1/2" - 2 #12 TO NEAREST UNSWITCHED LIGHTING CIRCUIT. RUN CAT. 5e CABLE BETWEEN ADJACENT NETWORK INTERFACE BRIDGES, WHERE APPLICABLE. REFER TO DETAIL #4/E502 FOR ADDITIONAL INFORMATION AND REQUIREMENTS.



ROOM LEGEND			
#	ROOM NAME	#	ROOM NAME
100	LOBBY	111	WOMEN
101	OPEN OFFICE	112	MEN
102	OFFICE	113	STORAGE
103	MGR. OFFICE	114	GYM
104	MENS	115	STORAGE
105	PLUMB. WELL	116	FIRE RISER
106	WOMENS	117	ELECTRICAL
107	TEEN STUDY ROOM	118	STORAGE
108	TEEN GAME ROOM	119	RACQUETBALL COURT
109	OFFICE/STORAGE	120	RACQUETBALL ENTRANCE
110	MECHANICAL		

**1 OVERALL LIGHTING PLAN**

A-415 SCALE: 1/8" = 1'-0"



Rose Sing Eastham & Associates  
Electrical Consultants  
131 S. Dunworth - (559) 733-2671  
Visalia, California 93292-6705



**FOURTH ST COMMUNITY CENTER AND PARK**  
HENDERSON AVE., PORTERVILLE, CA 93257  
**OVERALL LIGHTING PLAN**

NO.	REVISION	DATE
5	ADDENDUM 6	12/20/24
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PROJECT MANAGER  
JJ  
DRAWN BY  
CM  
CHECKED BY  
JJ  
DATE  
2024.01.15  
PROJECT NUMBER  
2883-01-RC22  
SHEET

PLAN CHECK REVISION 2

**E101**

P:\working\105\05\City of Porterville\Fourth Street Community Center & Park\E101.dwg DATE: 11/27/24 BY: Rose Sing Eastham DATE PLOTTED: 12/20/24 JOB #: 28-175-JJ

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**FOURTH ST COMMUNITY  
CENTER AND PARK**  
HENDERSON AVE., PORTERVILLE, CA 93257

**LIGHTING PLAN - POWER**

NO.	REVISION	DATE
5	ADDENDUM 6	12/20/24
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PROJECT MANAGER

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DRAWN BY

CM

CHECKED BY

JJ

DATE

2024.01.15

PROJECT NUMBER

2883-01-RC22

SHEET

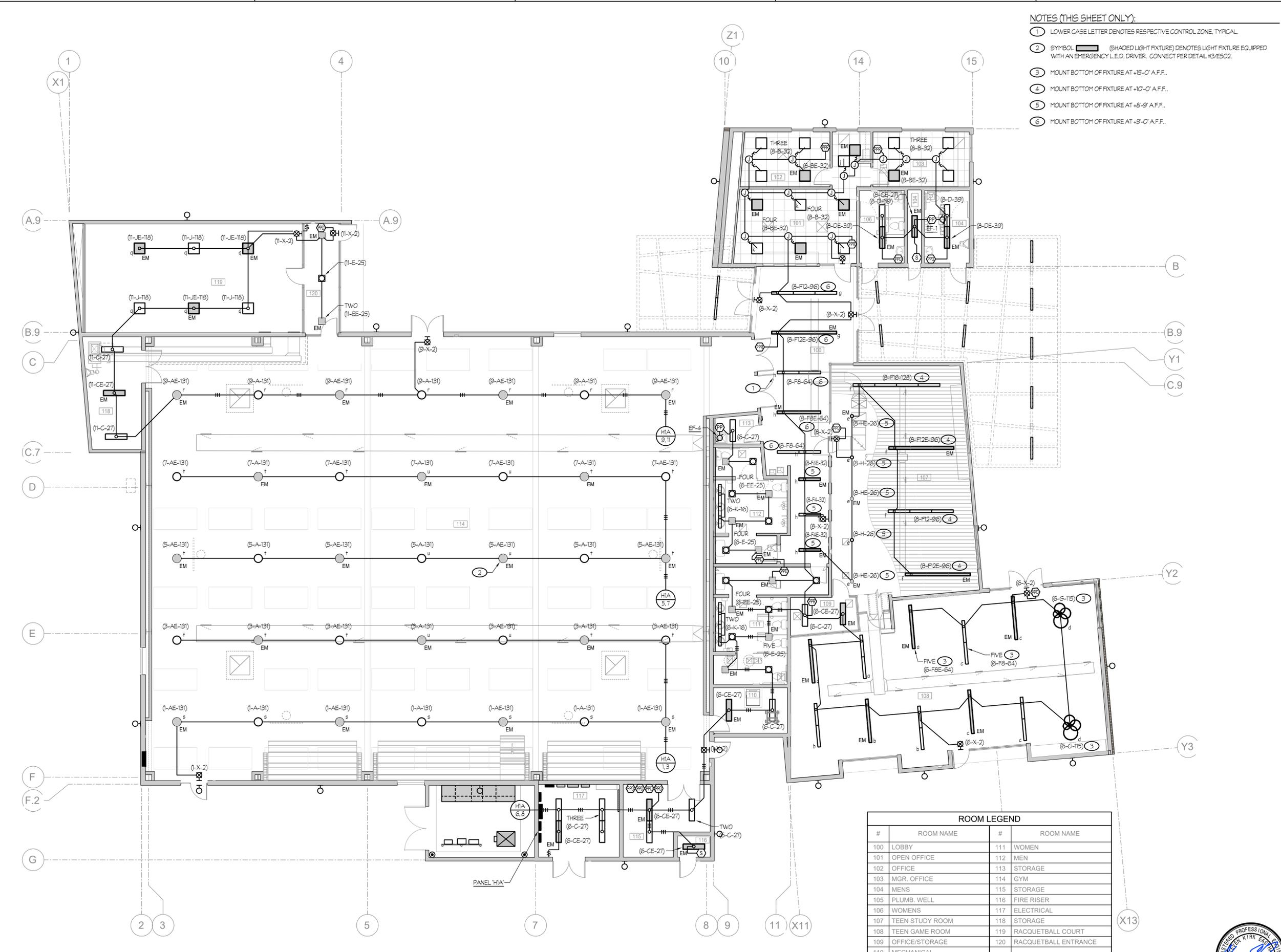
E102



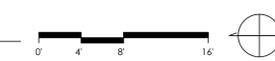
Rose Sing Eastham & Associates  
Electrical Consultants  
131 S. Dunworth - (559) 733-2671  
Visalia, California 93292-6705

**NOTES (THIS SHEET ONLY):**

- LOWER CASE LETTER DENOTES RESPECTIVE CONTROL ZONE, TYPICAL.
- SYMBOL (SHADED LIGHT FIXTURE) DENOTES LIGHT FIXTURE EQUIPPED WITH AN EMERGENCY L.E.D. DRIVER. CONNECT PER DETAIL #3/ES02.
- MOUNT BOTTOM OF FIXTURE AT +15'-0" A.F.F..
- MOUNT BOTTOM OF FIXTURE AT +10'-0" A.F.F..
- MOUNT BOTTOM OF FIXTURE AT +8'-9" A.F.F..
- MOUNT BOTTOM OF FIXTURE AT +9'-0" A.F.F..



ROOM LEGEND			
#	ROOM NAME	#	ROOM NAME
100	LOBBY	111	WOMEN
101	OPEN OFFICE	112	MEN
102	OFFICE	113	STORAGE
103	MGR. OFFICE	114	GYM
104	MENS	115	STORAGE
105	PLUMB. WELL	116	FIRE RISER
106	WOMENS	117	ELECTRICAL
107	TEEN STUDY ROOM	118	STORAGE
108	TEEN GAME ROOM	119	RACQUETBALL COURT
109	OFFICE/STORAGE	120	RACQUETBALL ENTRANCE
110	MECHANICAL		



**1 LIGHTING PLAN - POWER**  
A-415 SCALE: 1/8" = 1'-0"

PLAN CHECK REVISION 2

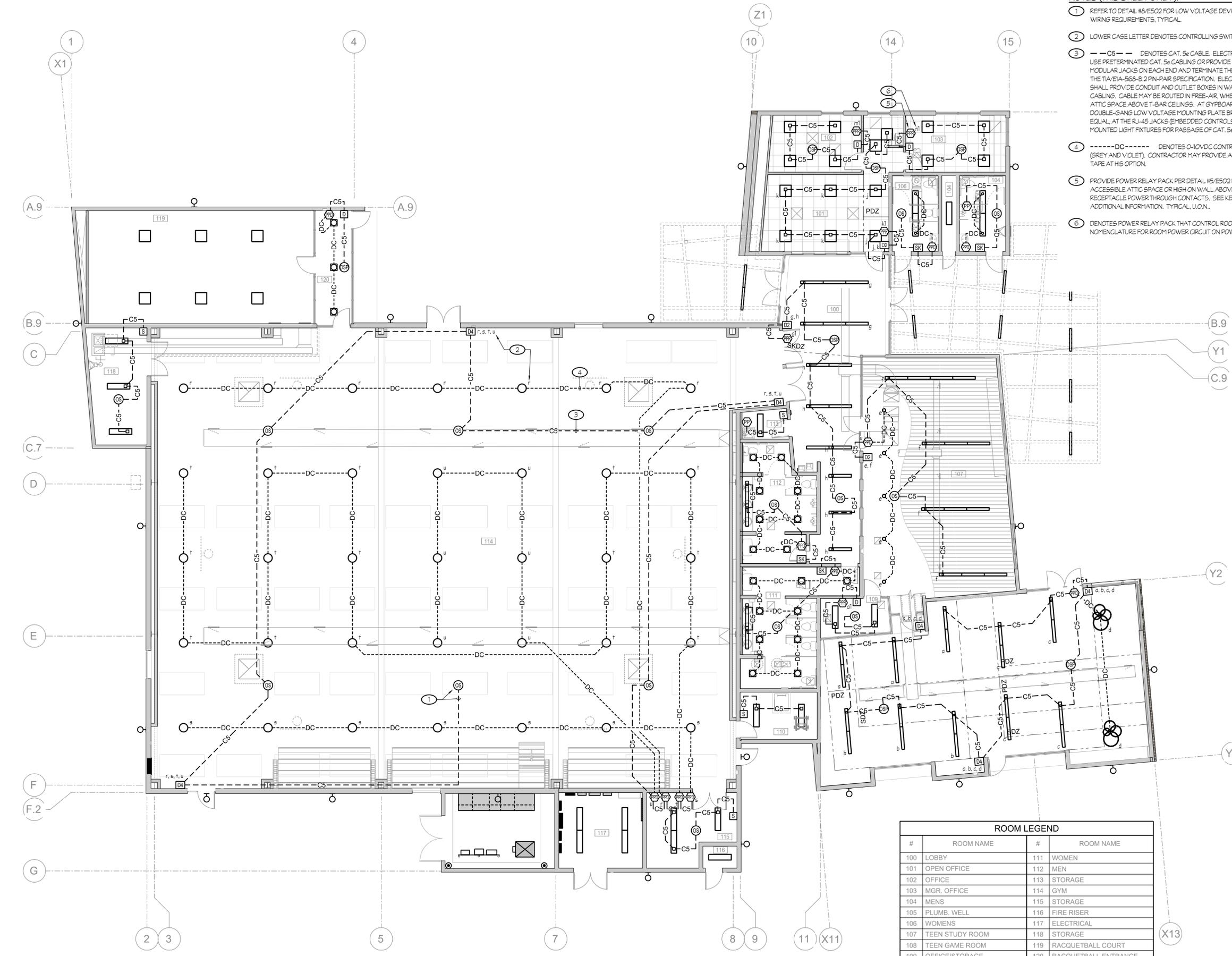
P:\working\1005\005\City of Porterville\Fourth Street Community Center & Park\E102.dwg DATE: 11/27/24 BY: Rose Sing Eastham & Associates 12/20/24 LDR # 22-173-JJ

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**NOTES (THIS SHEET ONLY):**

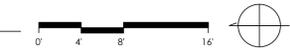
- 1 REFER TO DETAIL #5/E502 FOR LOW VOLTAGE DEVICES AND LIGHTING CONTROL WIRING REQUIREMENTS, TYPICAL.
- 2 LOWER CASE LETTER DENOTES CONTROLLING SWITCH, TYPICAL.
- 3 ---C5--- DENOTES CAT. 5e CABLE. ELECTRICAL CONTRACTOR MAY USE PRETERMINATED CAT. 5e CABLE OR PROVIDE CAT. 5e CABLING. MODULAR JACKS ON EACH END AND TERMINATE THE MODULAR JACKS USING THE TIA/EIA-568-B.2 PIN-PAIR SPECIFICATION. ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT AND OUTLET BOXES IN WALLS FOR ROUTING OF CABLING. CABLE MAY BE ROUTED IN FREE-AIR, WHEN LOCATED IN ACCESSIBLE ATTIC SPACE ABOVE T-BAR CEILING. AT GYPSUM BOARD CEILING, PROVIDE A DOUBLE-GANG LOW VOLTAGE MOUNTING PLATE BRACKET, CADDY #MPL52 OR EQUAL, AT THE RJ-45 JACKS (EMBEDDED CONTROLS) OF THE SURFACE MOUNTED LIGHT FIXTURES FOR PASSAGE OF CAT. 5e CABLING.
- 4 -----DC----- DENOTES 0-10VDC CONTROL. PROVIDE 1/2" - 2 #18 (GREY AND VIOLET). CONTRACTOR MAY PROVIDE A CABLE AND USE COLORED TAPE AT HIS OPTION.
- 5 PROVIDE POWER RELAY PACK PER DETAIL #5/E502 MOUNT ABOVE T-BAR CEILING IN ACCESSIBLE ATTIC SPACE OR HIGH ON WALL ABOVE LIGHT SWITCH. ROUTE 120V RECEPTACLE POWER THROUGH CONTACTS. SEE KEYNOTE #1 ON SHEET #E201 FOR ADDITIONAL INFORMATION. TYPICAL, U.O.N.
- 6 DENOTES POWER RELAY PACK THAT CONTROL ROOM DEVICES. SEE CORRESPONDING NOMENCLATURE FOR ROOM POWER CIRCUIT ON POWER PLAN. TYPICAL, U.O.N.



ROOM LEGEND			
#	ROOM NAME	#	ROOM NAME
100	LOBBY	111	WOMEN
101	OPEN OFFICE	112	MEN
102	OFFICE	113	STORAGE
103	MGR. OFFICE	114	GYM
104	MENS	115	STORAGE
105	PLUMB. WELL	116	FIRE RISER
106	WOMENS	117	ELECTRICAL
107	TEEN STUDY ROOM	118	STORAGE
108	TEEN GAME ROOM	119	RACQUETBALL COURT
109	OFFICE/STORAGE	120	RACQUETBALL ENTRANCE
110	MECHANICAL		

**1 LIGHTING PLAN - CONTROLS**

A.415 SCALE: 1/8" = 1'-0"



Rose Sing Eastham & Associates  
Electrical Consultants  
131 S. Dunworth - (559) 733-2671  
Visalia, California 93292-6705



**FOURTH ST COMMUNITY CENTER AND PARK**  
HENDERSON AVE., PORTERVILLE, CA 93257  
**LIGHTING PLAN - CONTROLS**

NO.	REVISION	DATE
5	ADDENDUM 6	12/20/24
4		
3		
2		
1		

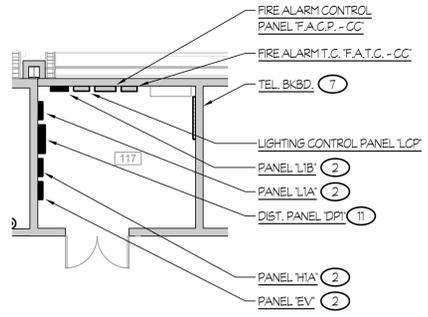
PROJECT MANAGER  
JJ  
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CM  
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JJ  
DATE  
2024.01.15  
PROJECT NUMBER  
2883-01-RC22  
SHEET

PLAN CHECK REVISION 2

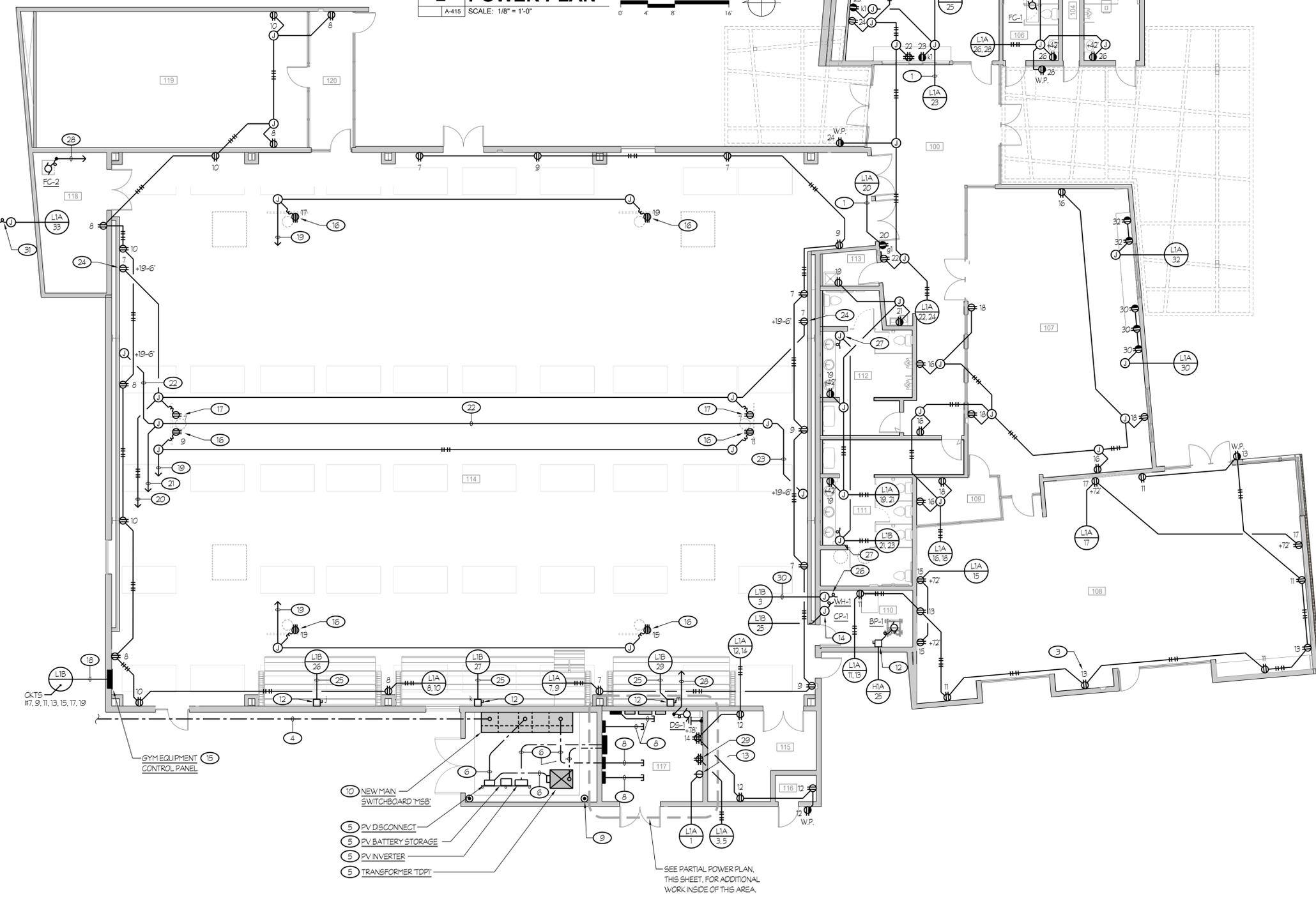
**E103**

P:\Working\2024\City of Porterville\Fourth St Community Center & Park\E103.dwg DATE SHED: 11/27/24 BY: Rose Sing Eastham DATE PLOTTED: 12/20/24 JOB #: 28-175-JJ

ROOM LEGEND			
#	ROOM NAME	#	ROOM NAME
100	LOBBY	111	WOMEN
101	OPEN OFFICE	112	MEN
102	OFFICE	113	STORAGE
103	MGR. OFFICE	114	GYM
104	MENS	115	STORAGE
105	PLUMB. WELL	116	FIRE RISER
106	WOMENS	117	ELECTRICAL
107	TEEN STUDY ROOM	118	STORAGE
108	TEEN GAME ROOM	119	RACQUETBALL COURT
109	OFFICE/STORAGE	120	RACQUETBALL ENTRANCE
110	MECHANICAL		



**2 PARTIAL POWER PLAN**  
A-415 SCALE: 1/8" = 1'-0"



- 10 NEW MAIN SWITCHBOARD M5B
  - 5 PV DISCONNECT
  - 5 PV BATTERY STORAGE
  - 5 PV INVERTER
  - 5 TRANSFORMER TDP
- SEE PARTIAL POWER PLAN, THIS SHEET, FOR ADDITIONAL WORK INSIDE OF THIS AREA.

**NOTES (THIS SHEET ONLY):**

- 1 ROUTE CIRCUIT THROUGH RECEPTACLE RELAY PACK. SEE SHEET #E103 FOR POWER RELAY PACK LOCATION.
- 2 MOUNT PANEL PER DETAIL #1/E503.
- 3 NUMBER BY DEVICE DENOTES CIRCUIT NUMBER DEVICE IS TO BE CONNECTED ON. TYPICAL, U.O.N.
- 4 SEE PARTIAL SITE ELECTRICAL PLAN, SHEET #E102, FOR CONTINUATION.
- 5 MOUNT PER DETAIL #2/E504.
- 6 FEEDER PER ONE LINE DIAGRAM, #1/E502.
- 7 PROVIDE A 4 x 8 x 3/4" THICK PLYWOOD BACKBOARD. RUN A 3/4" - 1#CU GND TO GND BUS OF PANEL L1A AND CONNECT.
- 8 STUB PER SPECIFICATIONS.
- 9 BONDING AND GROUNDING PER DETAIL #7/E503.
- 10 MOUNT PER DETAIL #1/E504.
- 11 MOUNT DISTRIBUTION PANEL PER DETAIL #2/E503.
- 12 PROVIDE A 30A, 1-POLE NON-FUSED, HEAVY-DUTY SAFETY SWITCH. CONNECT THE PRE-WIRED POWER CABLE SUPPLIED WITH THE MOTORIZED BLEACHER SYSTEM TO THE HEAVY-DUTY SAFETY SWITCH. SURFACE MOUNT AT +48" A.F.F. VERIFY EXACT POINT-OF-CONNECTION, DISCONNECT SIZE AND WIRING REQUIREMENTS WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.
- 13 PROVIDE A 30A, 1-POLE RECEPTACLE (NEMA 5-30R) FOR I.D.F. CONNECTIONS.
- 14 CONNECT CIRCULATION PUMP, 120V.
- 15 MOUNT PER DETAIL #3/E504.
- 16 PROVIDE A 4" SQUARE x 2 1/8" DEEP OUTLET BOX WITH SINGLE GANG RAISED RING, DEPTH AS REQUIRED, AND A STAINLESS STEEL WALLPLATE. LOCATE WITHIN 3'-0" OF ELECTRIC WINCH AND INSTALL THE DUPLEX TWIST-LOCK RECEPTACLE SUPPLIED WITH BACKSTOP ELECTRIC WINCH. RUN 3/4" L.F.M.C. - 3 #10 - 1#10 GND FROM TWIST-LOCK RECEPTACLE TO JUNCTION BOX AT ROOF STRUCTURE ABOVE. VERIFY EXACT LOCATION OF ELECTRIC WINCH AND ALL REQUIREMENTS WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.
- 17 PROVIDE A DUPLEX RECEPTACLE FOR SHOT CLOCK. SHOT CLOCK IS EQUIPPED WITH A 15 LG. POWER CORD, SO MOUNT THE DUPLEX RECEPTACLE WITHIN THIS DISTANCE. RUN 1/2" L.F.M.C. - 2 #10 + 1#10 GND FROM DUPLEX RECEPTACLE TO UPSTREAM JUNCTION BOX AT ROOF STRUCTURE ABOVE. VERIFY EXACT LOCATION AND MOUNTING REQUIREMENTS WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.
- 18 1 1/4" - 5 #8, 2 #10 + 1#8 GND, PLUS 1 1/4" - 5 #8 + 1#8 GND. REDUCE #8 CONDUCTORS DOWN TO A SMALLER GAUGE CONDUCTOR IF REQUIRED FOR TERMINATION AT THE KEY SWITCH.
- 19 RUN 1 1/4" - 6 #8 + 1#8 GND TO RESPECTIVE KEY SWITCH IN THE BASKETBALL EQUIPMENT CONTROL PANEL. REDUCE #8 CONDUCTORS DOWN TO A SMALLER GAUGE CONDUCTOR IF REQUIRED FOR TERMINATION AT THE KEY SWITCH OR TWIST-LOCK RECEPTACLE.
- 20 RUN 3/4" - 3 #12 + 1#12 GND TO BASKETBALL EQUIPMENT CONTROL PANEL AND CONNECT TO THE RESPECTIVE TOGGLE SWITCHES FOR THE SCOREBOARD AND SHOT CLOCKS.
- 21 RUN 1" - PLUS SHOT CLOCK AND SCOREBOARD CONTROL CABLES TO BASKETBALL EQUIPMENT CONTROL PANEL.
- 22 1" - PLUS SHOT CLOCK AND SCOREBOARD CONTROL CABLES.
- 23 3/4" - PLUS SHOT CLOCK CONTROL CABLE.
- 24 CONNECT SCOREBOARD POWER AND CONTROLS. VERIFY EXACT POINT-OF-CONNECTION AND REQUIREMENTS WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.
- 25 ROUTE CIRCUIT THROUGH CONTROL SWITCH AT GYM EQUIPMENT CONTROL PANEL.
- 26 CONNECT ELECTRIC WATER HEATER, 208V.
- 27 CONNECT HAND DRYER, 120V.
- 28 RUN A 1" TO RESPECTIVE ODU FOR CONTROLS. COORDINATE EXACT REQUIREMENTS WITH MECHANICAL.
- 29 PROVIDE DEDICATED DOUBLE DUPLEX RECEPTACLE FOR HORIZONTAL CROSS-CONNECT. COORDINATE AND VERIFY EXACT LOCATION WITH DATA SYSTEMS CONTRACTOR PRIOR TO ROUGH-IN.
- 30 3/4" - 2 #8 + 1#10 GND.
- 31 CONNECT INTERNALLY LIT SIGN LIGHT. COORDINATE REQUIREMENTS WITH SUPPLIER.

**1 OVERALL POWER PLAN**  
A-415 SCALE: 1/8" = 1'-0"

Rose Sing Eastham & Associates  
Electrical Consultants  
131 S. Dunworth - (559) 733-2671  
Visalia, California 93292-6705



**rrm design group**  
rrmdesign.com | (805) 543-1794  
3765 SOUTH HIGUERA STREET, SUITE 102  
SAN LUIS OBISPO, CA 93401

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**FOURTH ST COMMUNITY CENTER AND PARK**  
HENDERSON AVE., PORTERVILLE, CA 93257  
**OVERALL POWER PLAN**

NO.	REVISION	DATE
5	ADDENDUM 6	12/20/24

PROJECT MANAGER  
JJ  
DRAWN BY  
CM  
CHECKED BY  
JJ  
DATE  
2024.01.15  
PROJECT NUMBER  
2883-01-RC22  
SHEET

**E201**

PLAN CHECK REVISION 2

P:\working\2024\005\City of Porterville\Fourth Street Community Center & Park\2024\01\15\2024\_01\_15\_15-17.dwg 11/27/24 BR: Rose Sing Eastham DATE PLOTTED: 12/20/24 4:08 P. 22-173-01

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**FOURTH ST COMMUNITY  
CENTER AND PARK**  
HENDERSON AVE., PORTERVILLE, CA 93257

**ROOF ELECTRICAL PLAN**

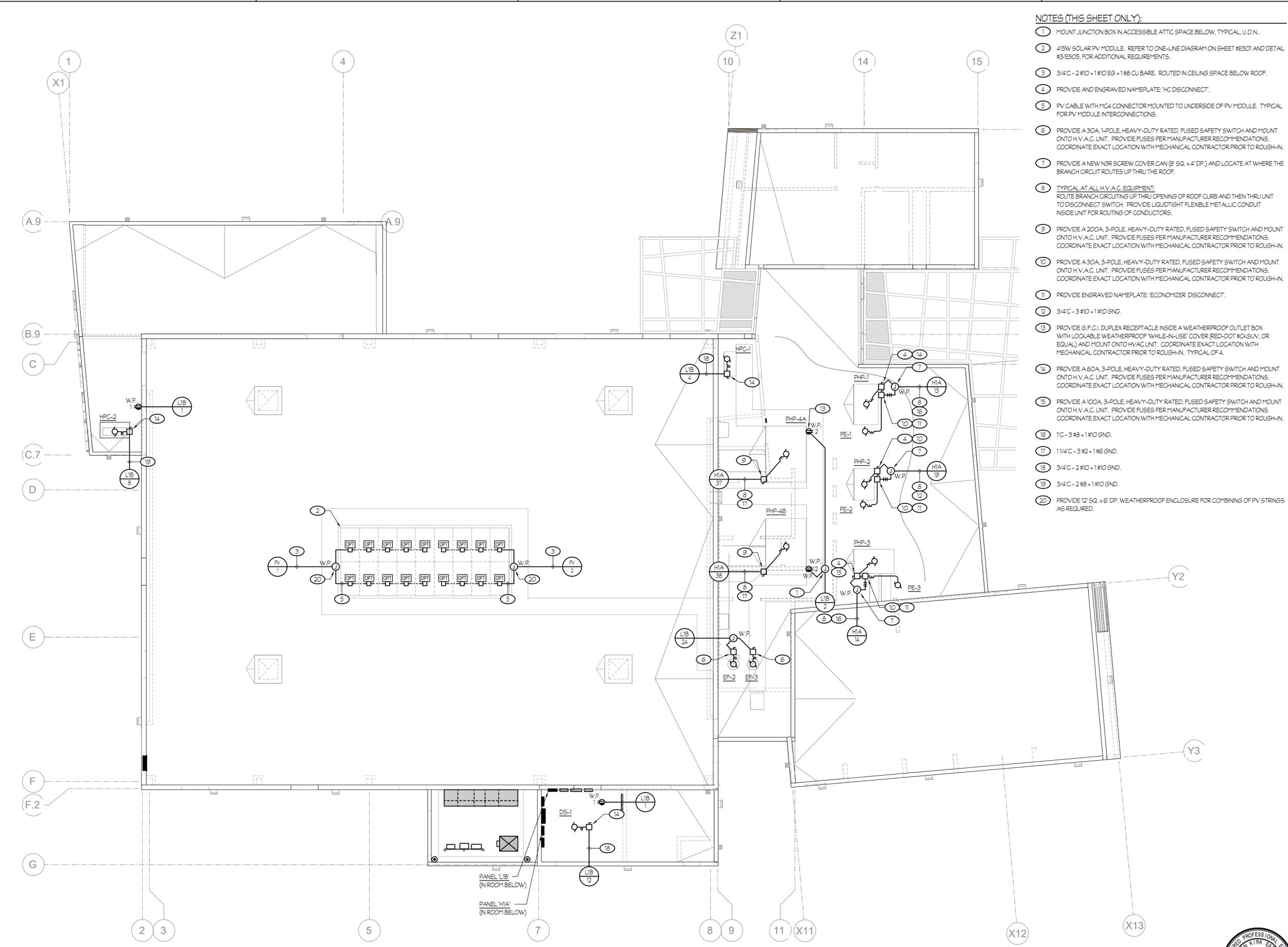
NO.	REVISION	DATE
5	ADDENDUM 6	12/20/24
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PROJECT MANAGER  
JJ  
DRAWN BY  
CM  
CHECKED BY  
JJ  
DATE  
2024.01.15  
PROJECT NUMBER  
2883-01-RC22  
SHEET

PLAN CHECK REVISION 2

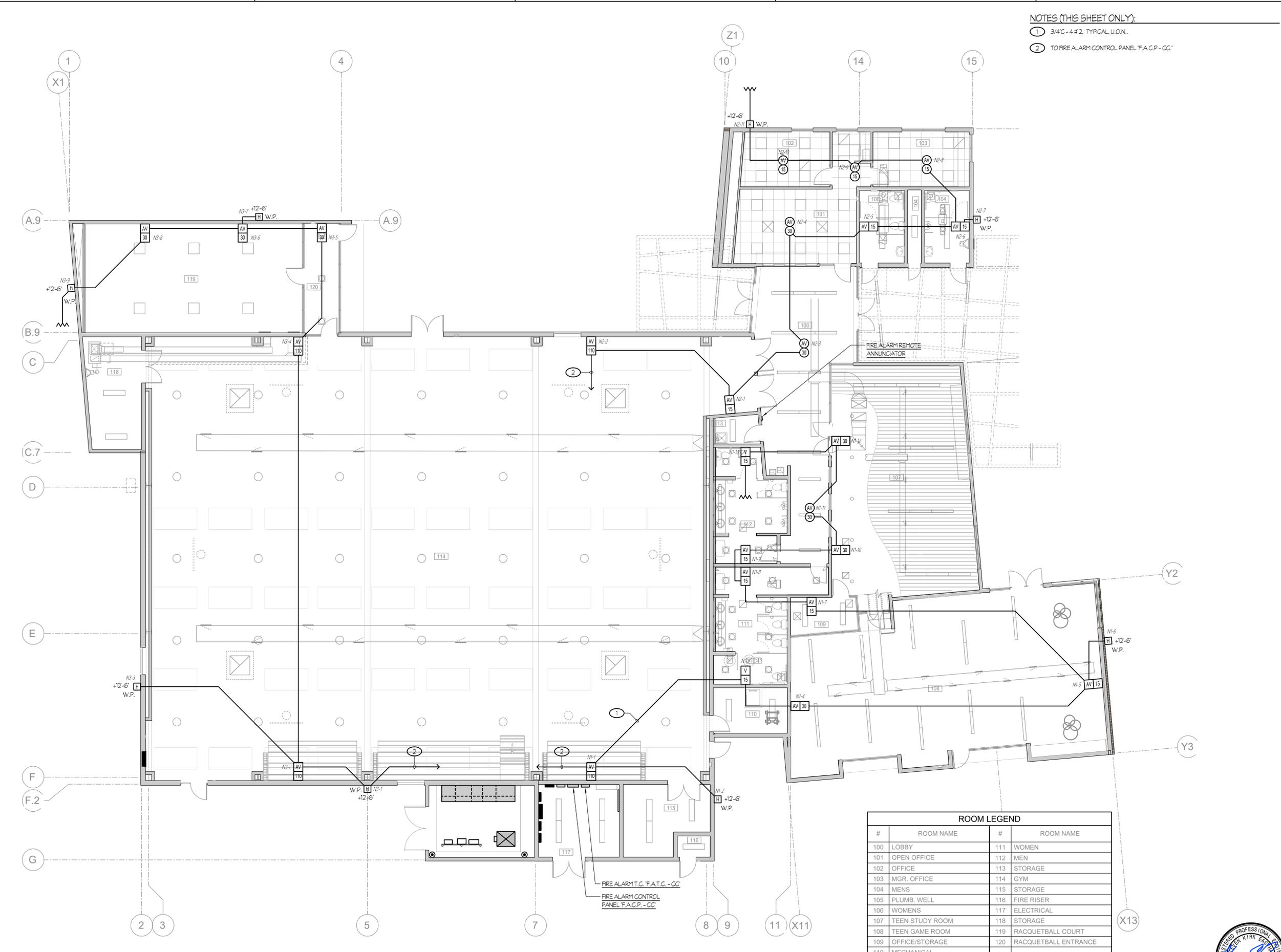
**NOTES (THIS SHEET ONLY):**

- 1 MOUNT JUNCTION BOX IN ACCESSIBLE ATTIC SPACE BELOW, TYPICAL, U.O.N.
- 2 415W SOLAR PV MODULE. REFER TO ONE-LINE DIAGRAM ON SHEET #E501 AND DETAIL #3/E505, FOR ADDITIONAL REQUIREMENTS.
- 3 3/4" - 2 #10 + 1 #10 EG + 1 #8 CU BARE. ROUTED IN CEILING SPACE BELOW ROOF.
- 4 PROVIDE AND ENGRAVED NAMEPLATE: "HC DISCONNECT".
- 5 PV CABLE WITH MC4 CONNECTOR MOUNTED TO UNDERSIDE OF PV MODULE. TYPICAL FOR PV MODULE INTERCONNECTIONS.
- 6 PROVIDE A 30A, 1-POLE, HEAVY-DUTY RATED, FUSED SAFETY SWITCH AND MOUNT ONTO H.V. A.C. UNIT. PROVIDE FUSES PER MANUFACTURER RECOMMENDATIONS. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
- 7 PROVIDE A NEW N3R SCREW COVER CAN (8" SQ. x 4" DP.) AND LOCATE AT WHERE THE BRANCH CIRCUIT ROUTES UP THRU THE ROOF.
- 8 TYPICAL AT ALL H.V.A.C. EQUIPMENT. ROUTE BRANCH CIRCUITING UP THRU OPENING OF ROOF CURB AND THEN THRU UNIT TO DISCONNECT SWITCH. PROVIDE LIQUIDTIGHT FLEXIBLE METALLIC CONDUIT INSIDE UNIT FOR ROUTING OF CONDUCTORS.
- 9 PROVIDE A 200A, 3-POLE, HEAVY-DUTY RATED, FUSED SAFETY SWITCH AND MOUNT ONTO H.V. A.C. UNIT. PROVIDE FUSES PER MANUFACTURER RECOMMENDATIONS. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
- 10 PROVIDE A 30A, 3-POLE, HEAVY-DUTY RATED, FUSED SAFETY SWITCH AND MOUNT ONTO H.V. A.C. UNIT. PROVIDE FUSES PER MANUFACTURER RECOMMENDATIONS. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
- 11 PROVIDE ENGRAVED NAMEPLATE: "ECONOMIZER DISCONNECT".
- 12 3/4" - 3 #10 + 1 #10 GND.
- 13 PROVIDE G.F.C.I. DUPLEX RECEPTACLE INSIDE A WEATHERPROOF OUTLET BOX WITH LOCK-ABLE WEATHERPROOF "WHILE-IN-USE" COVER (RED-DOT #CKSLV, OR EQUAL) AND MOUNT ONTO HVAC UNIT. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN. TYPICAL OF 4.
- 14 PROVIDE A 60A, 3-POLE, HEAVY-DUTY RATED, FUSED SAFETY SWITCH AND MOUNT ONTO H.V. A.C. UNIT. PROVIDE FUSES PER MANUFACTURER RECOMMENDATIONS. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
- 15 PROVIDE A 100A, 3-POLE, HEAVY-DUTY RATED, FUSED SAFETY SWITCH AND MOUNT ONTO H.V. A.C. UNIT. PROVIDE FUSES PER MANUFACTURER RECOMMENDATIONS. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
- 16 1" - 3 #8 + 1 #10 GND.
- 17 1 1/4" - 3 #2 + 1 #6 GND.
- 18 3/4" - 2 #10 + 1 #10 GND.
- 19 3/4" - 2 #8 + 1 #10 GND.
- 20 PROVIDE 12" SQ. x 6" DP. WEATHERPROOF ENCLOSURE FOR COMBINING OF PV STRINGS AS REQUIRED.





- NOTES (THIS SHEET ONLY):
- ① 3/4" - 4 #12, TYPICAL, U.O.N.
  - ② TO FIRE ALARM CONTROL PANEL F.A.C.P. - CC.



P:\Working\1005\City of Porterville\Fourth Street Community Center & Park\E302.dwg DATE: 05/29/24 BY: Rose Sing Eastham DATE PLOTTED: 12/20/24 JOB #: 24-173-JJ

**1 FIRE ALARM NOTIFICATION PLAN**  
A-415 SCALE: 1/8" = 1'-0"

ROOM LEGEND			
#	ROOM NAME	#	ROOM NAME
100	LOBBY	111	WOMEN
101	OPEN OFFICE	112	MEN
102	OFFICE	113	STORAGE
103	MGR. OFFICE	114	GYM
104	MENS	115	STORAGE
105	PLUMB. WELL	116	FIRE RISER
106	WOMENS	117	ELECTRICAL
107	TEEN STUDY ROOM	118	STORAGE
108	TEEN GAME ROOM	119	RACQUETBALL COURT
109	OFFICE/STORAGE	120	RACQUETBALL ENTRANCE
110	MECHANICAL		



Rose Sing Eastham & Associates  
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Visalia, California 93292-6705



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**FOURTH ST COMMUNITY CENTER AND PARK**  
HENDERSON AVE., PORTERVILLE, CA 93257  
**FIRE ALARM NOTIFICATION PLAN**

NO.	REVISION	DATE
5	ADDENDUM 6	12/20/24

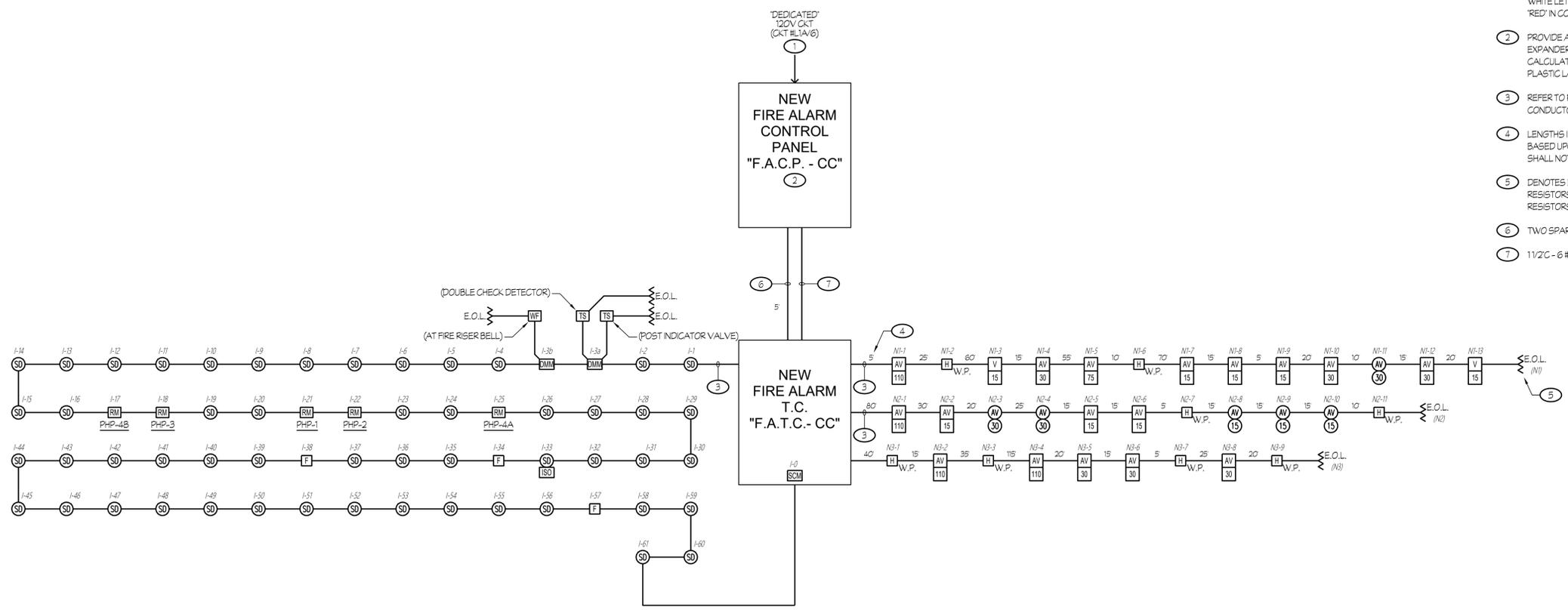
PROJECT MANAGER  
JJ  
DRAWN BY  
CM  
CHECKED BY  
JJ  
DATE  
2024.01.15  
PROJECT NUMBER  
2883-01-RC22  
SHEET

**E302**

PLAN CHECK REVISION 2



- NOTES (THIS SHEET ONLY):
- CIRCUIT BREAKER SHALL BE EQUIPPED WITH A LOCK-ON ACCESSORY. PROVIDE AN ENGRAVED NAMEPLATE: FIRE ALARM - LEAVE ON. NAMEPLATE SHALL HAVE WHITE LETTERS ON A RED BACKGROUND. PAINT HANDLE OR LOCK-ON ACCESSORY RED IN COLOR.
  - PROVIDE A COPY OF THE BATTERY CALCULATION FOR THE RESPECTIVE POWER EXPANDER PANEL (OR THE FIRE ALARM CONTROL PANEL "F.A.C.P."), THE BATTERY CALCULATION SHALL CONTAIN INFORMATION (AS NOTED ON THESE PLANS) AND BE PLASTIC LAMINATED. MOUNT ONTO INSIDE FACE OF PANEL DOOR.
  - REFER TO RESPECTIVE FIRE ALARM PLAN FOR CONDUIT AND CABLEING/ CONDUCTOR REQUIREMENTS, TYPICAL.
  - LENGTHS INDICATED WERE USED FOR CALCULATIONS/DESIGN PURPOSES ONLY AND BASED UPON THE "DIAGRAMMATIC" LAYOUT SHOWN ON THE DRAWINGS. LENGTHS SHALL NOT BE USED FOR BIDDING.
  - 5 DENOTES END OF LINE RESISTOR ON NOTIFICATION APPLIANCE CIRCUIT. RESISTORS SUPPLIED WITH CONTROL/EXPANDER PANELS AS REQUIRED. LOCATE RESISTORS AT END OF LINE APPLIANCES (CLASS 'B' WIRING), TYPICAL.
  - TWO SPARE 11/4"C.
  - 11/2"C - 6 #12 (SIGNALLING), 6 #14, ONE 'FA' CABLE.



1 FIRE ALARM SYSTEM RISER DIAGRAM

NTS

VOLTAGE DROP CALCULATIONS (OHM'S LAW)

VOLTAGE DROP = 2 (DC RESISTANCE AT 75°C FROM TABLE 8, C.E.C.) (LENGTH OF CIRCUIT / 1000) (CURRENT)

PERCENT VOLTAGE DROP = (VOLTAGE DROP / NOMINAL VOLTAGE) x 100

1. NOTIFICATION APPLIANCE CIRCUIT 'N1':

V 15	: 2 x 0.066 A = 0.132 A
AV 15	: 3 x 0.079 A = 0.237 A
AV 30	: 3 x 0.107 A = 0.321 A
AV 75	: 1 x 0.176 A = 0.176 A
AV 110	: 1 x 0.212 A = 0.212 A
AV 30	: 1 x 0.107 A = 0.107 A
HI	: 2 x 0.069 A = 0.138 A

W.P. 1.323 A

VOLTAGE DROP = 2(1.98) (325 / 1000) (1.323) = 1.703 V.D.

PERCENT VOLTAGE DROP = (1.703 / 24) x 100 = 7.1%

VOLTAGE DROP CALCULATIONS (OHM'S LAW)

VOLTAGE DROP = 2 (DC RESISTANCE AT 75°C FROM TABLE 8, C.E.C.) (LENGTH OF CIRCUIT / 1000) (CURRENT)

PERCENT VOLTAGE DROP = (VOLTAGE DROP / NOMINAL VOLTAGE) x 100

2. NOTIFICATION APPLIANCE CIRCUIT 'N2':

AV 15	: 3 x 0.079 A = 0.237 A
AV 110	: 1 x 0.212 A = 0.212 A
AV 15	: 3 x 0.079 A = 0.237 A
AV 30	: 2 x 0.107 A = 0.214 A
HI	: 2 x 0.069 A = 0.138 A

W.P. 1.038 A

VOLTAGE DROP = 2(1.98) (245 / 1000) (1.038) = 1.01 V.D.

PERCENT VOLTAGE DROP = (1.01 / 24) x 100 = 4.21%

VOLTAGE DROP CALCULATIONS (OHM'S LAW)

VOLTAGE DROP = 2 (DC RESISTANCE AT 75°C FROM TABLE 8, C.E.C.) (LENGTH OF CIRCUIT / 1000) (CURRENT)

PERCENT VOLTAGE DROP = (VOLTAGE DROP / NOMINAL VOLTAGE) x 100

3. NOTIFICATION APPLIANCE CIRCUIT 'N3':

AV 30	: 3 x 0.107 A = 0.321 A
AV 110	: 2 x 0.212 A = 0.424 A
HI	: 4 x 0.069 A = 0.276 A

W.P. 1.021 A

VOLTAGE DROP = 2(1.98) (280 / 1000) (1.021) = 1.173 V.D.

PERCENT VOLTAGE DROP = (1.173 / 24) x 100 = 4.89%

NEW FIRE ALARM CONTROL PANEL "F.A.C.P. - CC" BATTERY CALCULATION

DESCRIPTION	QUANTITY	SUPPLY CURRENT		ALARM CURRENT	
		EACH	SUB-TOTAL	EACH	SUB-TOTAL
FIRE ALARM CONTROL PANEL	1	0.336	0.336	0.409	0.409
PULL STATION	3	0.0003	0.0009	0.0015	0.0045
SMOKE DETECTOR	52	0.0003	0.0156	0.0065	0.338
DUAL MONITOR MODULE	2	0.0075	0.015	0.0057	0.0114
RELAY MODULE	5	0.0003	0.0015	0.0003	0.0015
SUPERVISED CONTROL MODULE	1	0.0003	0.0003	0.0003	0.0003
15cd STROBE	2	—	—	0.066	0.132
HORN/15cd STROBE	9	—	—	0.079	0.711
HORN/30cd STROBE	9	—	—	0.107	0.963
HORN/75cd STROBE	1	—	—	0.176	0.176
HORN/110cd STROBE	4	—	—	0.212	0.848
EXTERIOR HORN	8	—	—	0.069	0.552
TOTALS			0.3693		3.1837

TOTAL ALARM CURRENT OF 3.1837 x 0.084 (5 MINUTES) = 0.267 A.H.

TOTAL SUPERVISORY CURRENT OF 0.3693 x 24 HOURS = 8.8632 A.H.

TOTAL AMP HOURS REQUIRED = 9.1302 A.H.

x 1.25 SAFETY FACTOR = 11.413 A.H.

PROVIDE 18.0AMP HOUR BATTERIES.

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HENDERSON AVE., PORTERVILLE, CA 93257

**FIRE ALARM SYSTEM RISER DIAGRAM AND CALCULATIONS**

NO.	REVISION	DATE
5	ADDENDUM 6	12/20/24
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△		
△		
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PROJECT MANAGER JJ

DRAWN BY CM CHECKED BY JJ

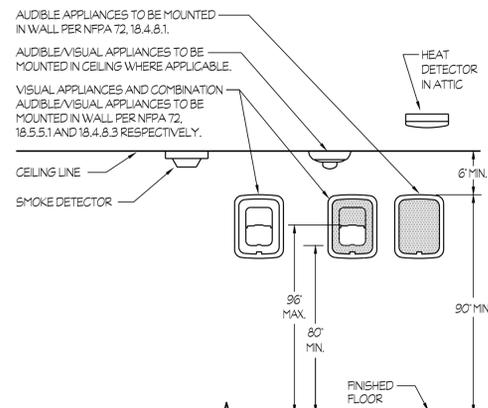
DATE 2024.01.15

PROJECT NUMBER 2883-01-RC22

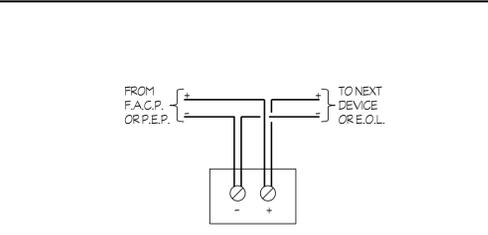
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PLAN CHECK REVISION 2

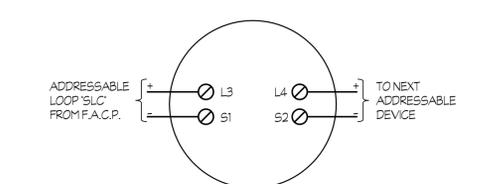
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Visalia, California 93292-6705



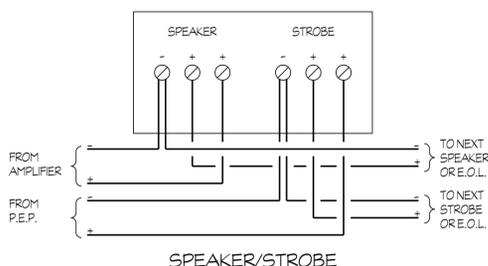
**1** FIRE ALARM DEVICES ELEVATION NTS



STROBE OR SPEAKER

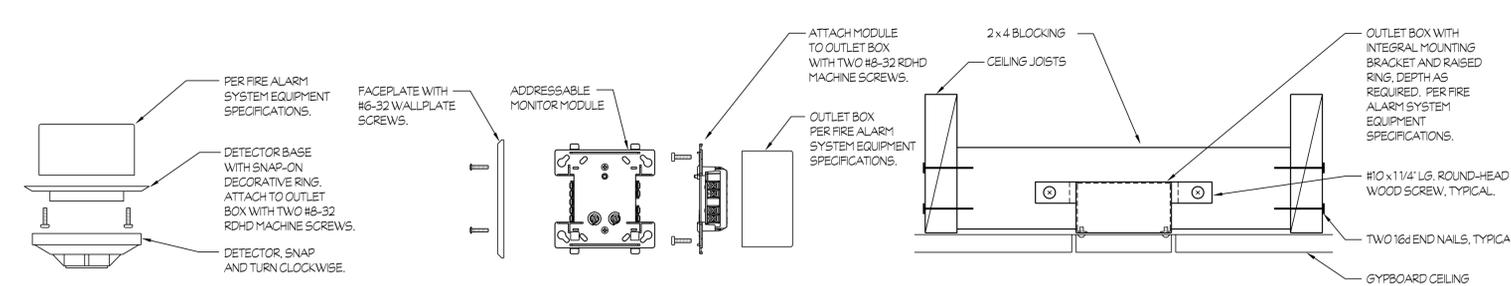


SMOKE OR HEAT DETECTOR



SPEAKER/STROBE

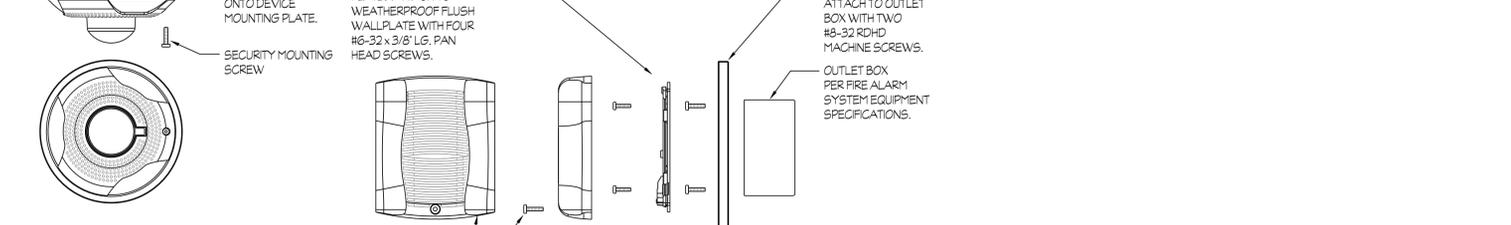
**2** FIRE ALARM SYSTEM WIRING DIAGRAMS NTS



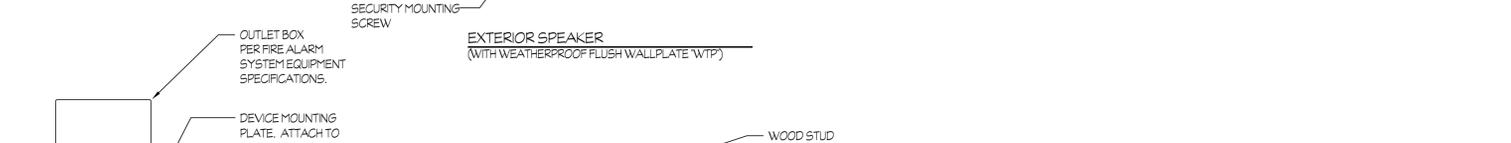
ADDRESSABLE SMOKE OR HEAT DETECTOR



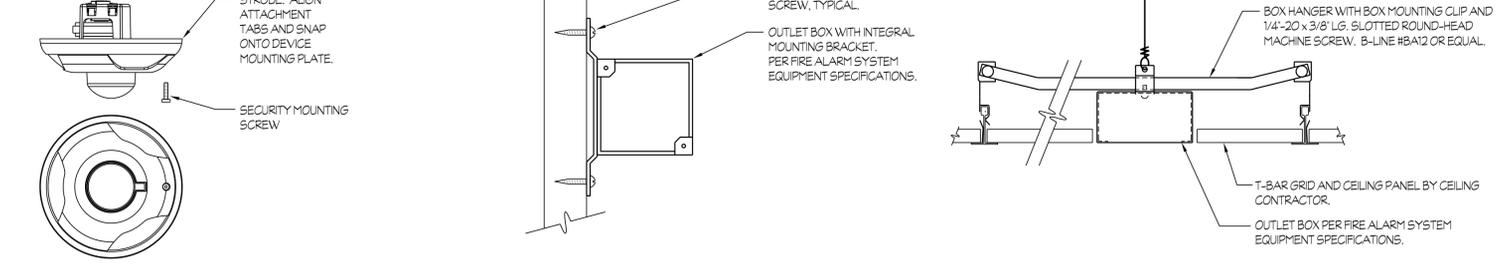
ADDRESSABLE MONITOR MODULE (SIMILAR MOUNTING FOR ADDRESSABLE DUAL MONITOR, SUPERVISED OUTPUT, AND RELAY CONTROL MODULES)



CEILING SPEAKER/STROBE

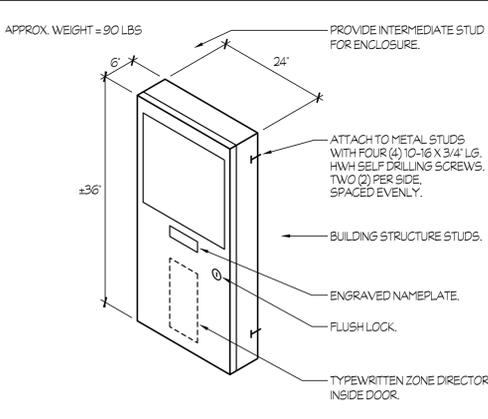


EXTERIOR SPEAKER (WITH WEATHERPROOF FLUSH WALLPLATE WTP)

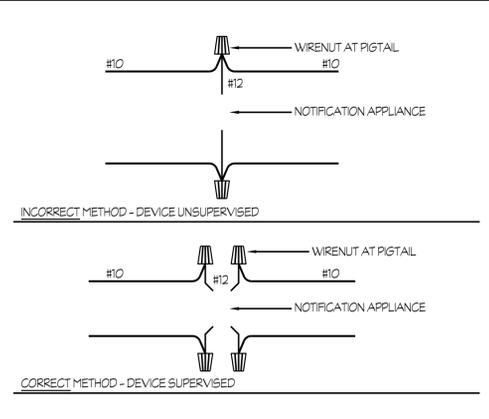


CEILING STROBE

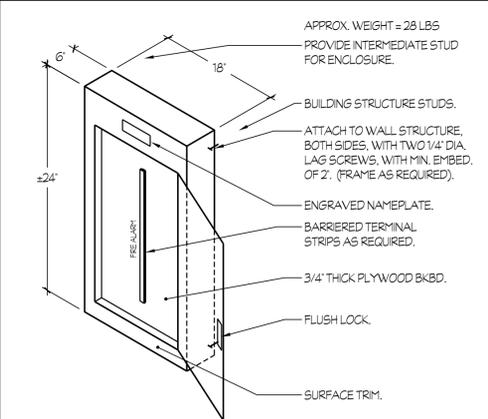
**4** FIRE ALARM DEVICES MOUNTING NTS



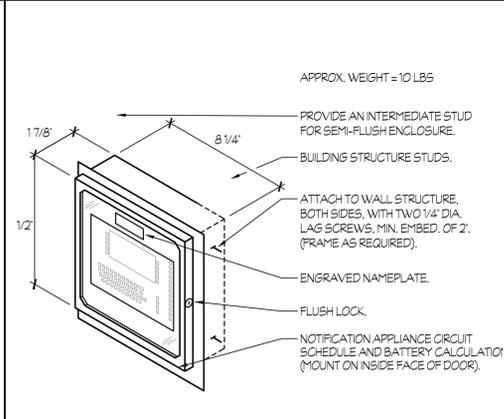
**3** FIRE ALARM CONTROL PANEL F.A.C.P. - CC MOUNTING NTS



**5** PIGTAIL WIRING DETAIL NTS



**6** FIRE ALARM T.C. F.A.T.C. - CC MOUNTING NTS



**7** FIRE ALARM REMOTE ANNUNCIATOR MOUNTING NTS

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**FOURTH ST COMMUNITY CENTER AND PARK**  
 HENDERSON AVE., PORTERVILLE, CA 93257  
**FIRE ALARM DETAILS**

NO.	REVISION	DATE
5	ADDENDUM 6	12/20/24
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PROJECT MANAGER: JJ  
 DRAWN BY: CM  
 CHECKED BY: JJ  
 DATE: 2024.01.15  
 PROJECT NUMBER: 2883-01-RC22  
 SHEET: E403



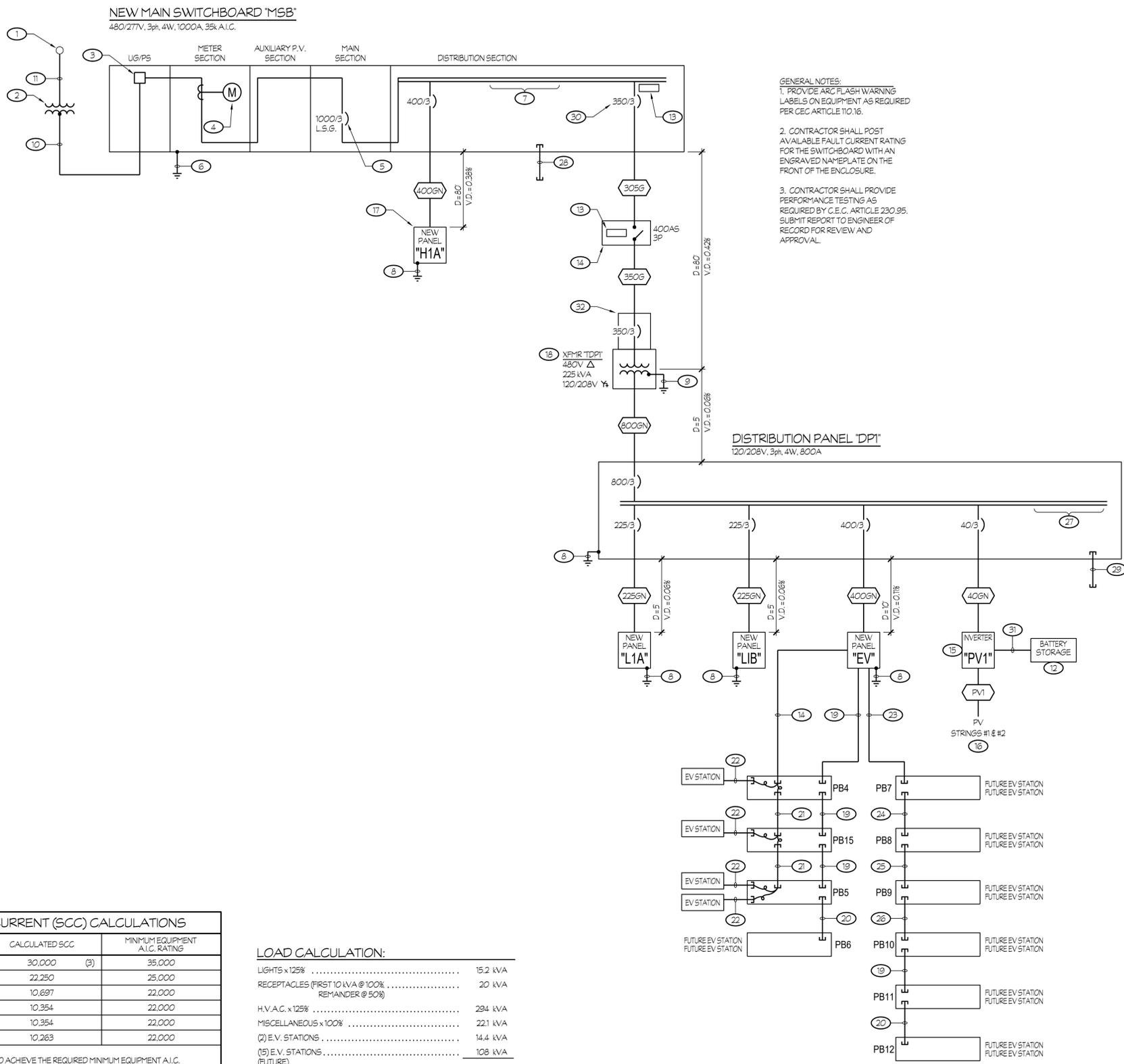
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 Visalia, California 93292-6705

PLAN CHECK REVISION 2

P:\Working\2024\City of Porterville\Fourth Street Community Center & Park\2403.dwg DATE: 05/29/24 BY: Hoon Ding DATE PLOTTED: 12/20/24 JOB #: 24-175-JJ

CONSULTANT

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**GENERAL NOTES:**

- PROVIDE ARC FLASH WARNING LABELS ON EQUIPMENT AS REQUIRED PER CEC ARTICLE 110.16.
- CONTRACTOR SHALL POST AVAILABLE FAULT CURRENT RATING FOR THE SWITCHBOARD WITH AN ENGRAVED NAMEPLATE ON THE FRONT OF THE ENCLOSURE.
- CONTRACTOR SHALL PROVIDE PERFORMANCE TESTING AS REQUIRED BY C.E.C. ARTICLE 230.95. SUBMIT REPORT TO ENGINEER OF RECORD FOR REVIEW AND APPROVAL.

**ONE LINE DIAGRAM NOTES (THIS SHEET ONLY):**

- EXISTING S.C.E. POWER POLE. VERIFY EXACT LOCATION AND RISER QUADRANT WITH S.C.E. PRIOR TO ROUGH-IN.
- PROVIDE A 10' x 12' CONCRETE TRANSFORMER PAD, GROUNDING AND BARRIER POSTS PER S.C.E. REQUIREMENTS.
- PROVIDE LANDING LUGS PER S.C.E. REQUIREMENTS.
- PROVIDE METERING FACILITIES PER S.C.E. REQUIREMENTS.
- MAIN CIRCUIT BREAKER SHALL BE 100% RATED ELECTRONIC TYPE, EQUIPPED WITH LONG-TIME, SHORT-TIME, INSTANTANEOUS-OFF TYPE AND GROUND FAULT TYPE CONFIGURATIONS. MAIN CIRCUIT BREAKER SHALL ALSO BE EQUIPPED WITH A TRIP INDICATOR AND LOCAL CURRENT METER, SQUARE D HRK SERIES OR EQUAL.
- 1#3/0 TO GROUNDING ELECTRODE SYSTEM PER DETAIL #6/E503.
- PROVIDE SPACE AND MOUNTING HARDWARE FOR A MINIMUM OF TWO 400/3 AND TWO 225/3 CIRCUIT BREAKERS.
- BOND AND GROUND REMOTE PANEL PER DETAIL #6/E503.
- BOND AND GROUND TRANSFORMER PER DETAIL #6/E503.
- FOUR 4"C (S.C.E. SECONDARY) PER S.C.E. REQUIREMENTS.
- ONE 5"C (S.C.E. PRIMARY) PER S.C.E. REQUIREMENTS.
- PROVIDE EG4 ELECTRONICS 15 kWh BATTERY STORAGE SYSTEM. CONNECT TO SYSTEM PER MANUFACTURER REQUIREMENTS.
- PROVIDE SOLAR NAME PLATE AS REQUIRED BY C.E.C. SEE SHEET #E505 FOR ADDITIONAL INFORMATION.
- 1C - 8 #8 + 1 #10 GND.
- PROVIDE SOL-ARC HYBRID INVERTER #15K-2P-N. CONNECT PV STRING CIRCUITS PER MANUFACTURER REQUIREMENTS.
- PROVIDE 415W PV MODULES AS MANUFACTURED BY Q CELLS, MODEL Q.PEAK DUO ML-G10+ AND SOL-ARK OPTIMIZER #0900-80V AT EACH UNIT. REFER TO PLANS FOR QUANTITY AND LOCATION OF MODULES.
- PROVIDE AN ENGRAVED NAMEPLATE THAT READS: SERVICE DISCONNECT 1 OF 2.
- PROVIDE AN ENGRAVED NAMEPLATE THAT READS: SERVICE DISCONNECT 2 OF 2.
- TWO 1 1/4"C SPARES (WITH NYLON PULL ROPE) FOR FUTURE E.V. CHARGING STATIONS.
- 1 1/4"C SPARE (WITH NYLON PULL ROPE) FOR FUTURE E.V. CHARGING STATION.
- 1C - 4 #8 + 1 #10 GND.
- 1C - 2 #8 + 1 #10 GND.
- SIX SPARE 1 1/4"C (WITH NYLON PULL ROPE).
- FIVE SPARE 1 1/4"C (WITH NYLON PULL ROPE).
- FOUR SPARE 1 1/4"C (WITH NYLON PULL ROPE).
- THREE SPARE 1 1/4"C (WITH NYLON PULL ROPE).
- PROVIDE SPACE AND MOUNTING HARDWARE FOR A MINIMUM OF TWO 225/3 CIRCUIT BREAKERS MINIMUM.
- TWO SPARE 4"C AND TWO 2 1/2"C.
- TWO SPARE 3"C.
- PV BREAKER PLACED IN LAST POSITION, FARTHEST FROM MAIN BREAKER.
- 1 1/2"C - 4 #3/0 + 1 #CAT. 5# CABLE.
- PRIMARY CIRCUIT BREAKER IN NEMA 3R ENCLOSURE.

SHORT CIRCUIT CURRENT (SCC) CALCULATIONS		
DESIGNATION	CALCULATED SCC	MINIMUM EQUIPMENT A.I.C. RATING
MAIN SWITCHBOARD 'MSB'	30,000 (3)	35,000
PANEL 'H1A'	22,250	25,000
DISTRIBUTION PANEL 'DPI'	10,697	22,000
PANEL 'L1A'	10,354	22,000
PANEL 'L1B'	10,354	22,000
PANEL 'EV'	10,263	22,000

(1) SERIES RATINGS MAY BE USED TO ACHIEVE THE REQUIRED MINIMUM EQUIPMENT A.I.C. RATING. PROVIDE AN ENGRAVED NAMEPLATE WHICH INDICATES THIS APPLICATION TO COMPLY WITH C.E.C. ARTICLES 110.22(C), 240.83(C) AND 240.86(B).

(2) THE SHORT CIRCUIT CURRENT CALCULATIONS AND MINIMUM EQUIPMENT A.I.C. RATINGS ARE PRELIMINARY AND ARE FOR BIDDING PURPOSES ONLY. THE SHORT CIRCUIT AND PROTECTIVE DEVICE COORDINATION STUDY, REQUIRED BY THE PROJECT MANUAL, WILL DETERMINE THE ACTUAL SHORT CIRCUIT CURRENT VALUES.

(3) THE AVAILABLE FAULT CURRENT SHALL BE LEGIBLY MARKED IN THE FIELD WITH THE MAXIMUM AVAILABLE FAULT CURRENT TO COMPLY WITH C.E.C. ARTICLE 110.24. THE FIELD MARKING SHALL INCLUDE THE DATE THAT THE FAULT CURRENT CALCULATION WAS PERFORMED. THE LABEL SHALL BE PRINTED IN COLOR AND ON SELF-ADHESIVE NYLON OR VINYL DIE CUT STOCK.

**LOAD CALCULATION:**

LIGHTS x 125% .....	15.2 kVA
RECEPTACLES (FIRST 10 kVA @ 100% REMAINDER @ 50%) .....	20 kVA
H.V.A.C. x 125% .....	294 kVA
MISCELLANEOUS x 100% .....	22.1 kVA
(2) E.V. STATIONS .....	14.4 kVA
(15) E.V. STATIONS (FUTURE) .....	108 kVA
<b>TOTAL .....</b>	<b>473.7 kVA</b>
AT 480/277V 3ph 4W .....	571 AMPS

THEREFORE THE 1000 AMP SERVICE IS ADEQUATE.

**NEW FEEDER SCHEDULE:**  
(ALL CONDUCTORS IN 480V OR 480/277V UNDERGROUND FEEDERS SHALL BE CU-NHHW-2. ALL OTHER CONDUCTORS, INCLUDING THE EQUIPMENT GROUNDING CONDUCTOR, SHALL BE CU-THWN-2 FOR #8 AWG OR LARGER AND CU-THWN FOR #10 AWG OR SMALLER.)

400GN	1C - 4 #8 + 1 #10 GND.
225GN	2 1/2"C - 4 #4/0 + 1 #4 GND.
350G	3"C - 3 #350 kcmil + 1 #2 GND.
400GN	3 1/2"C - 4 #500 kcmil + 1 #2 GND.
800GN	TWO 3 1/2"C - 4 #500 kcmil + 1 #10 GND EACH.

1 ONE LINE DIAGRAM



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Visalia, California 93292-6705

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NO.	REVISION	DATE
5	ADDENDUM 6	12/20/24
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PROJECT MANAGER  
JJ

DRAWN BY  
CM

CHECKED BY  
JJ

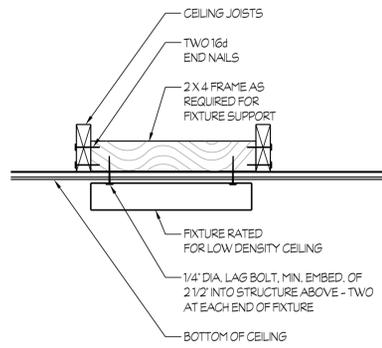
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PROJECT NUMBER  
2883-01-RC22

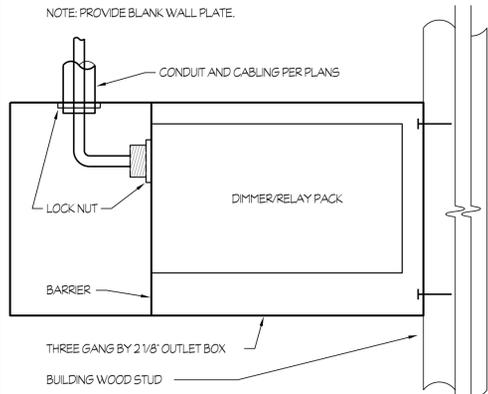
SHEET  
E501

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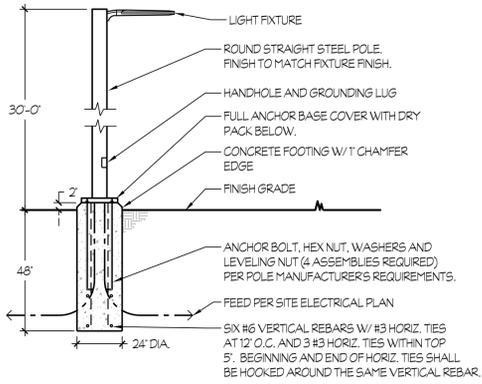
ONE LINE DIAGRAM



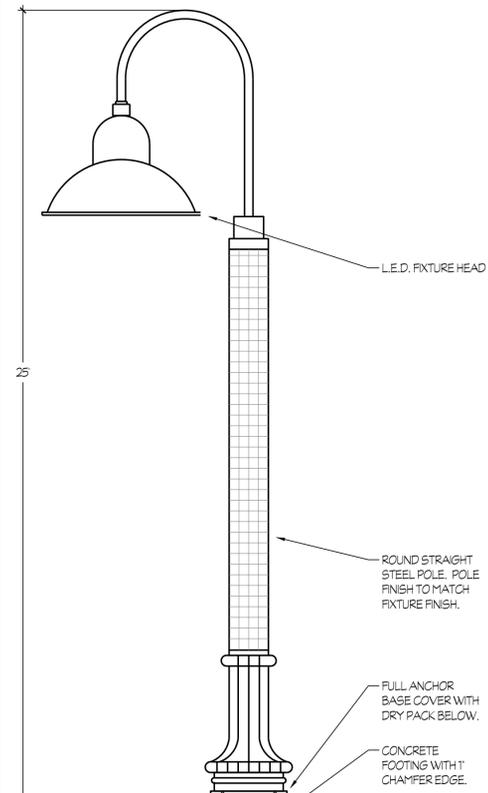
1 SURFACE FIXTURE MOUNTING



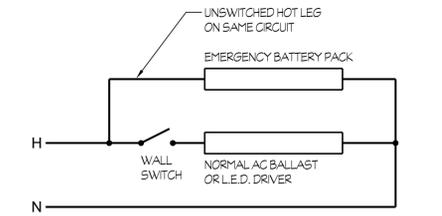
5 DIMMER/RELAY PACK MOUNTING



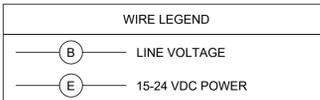
2 POLE LIGHT MOUNTING



6 FIXTURES 'S1' MOUNTING



3 EMERGENCY BATTERY PACK WIRING DIAGRAM

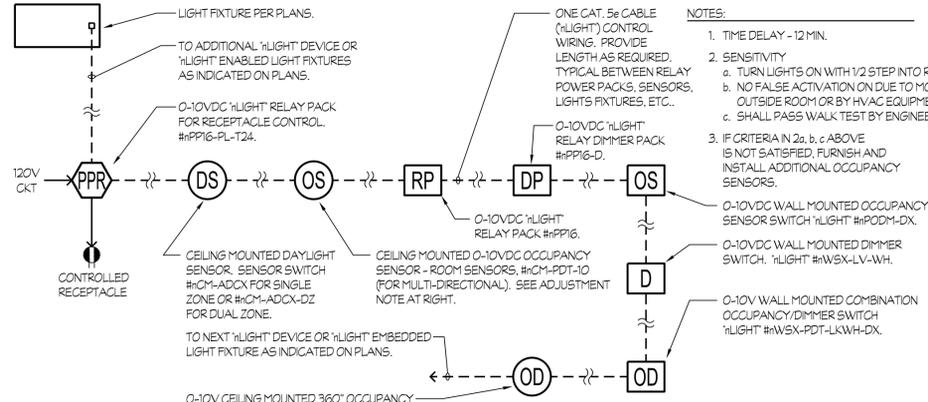


4 NETWORK INTERFACE BRIDGE KIT (WIRING DIAGRAM)

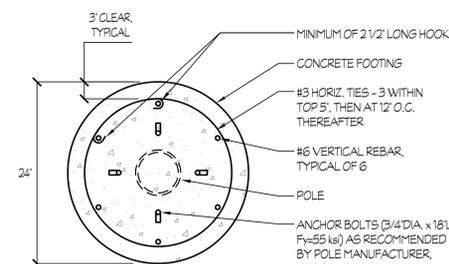
**BILL OF MATERIAL**

QTY	PRODUCT #	DESCRIPTION
1	nECY-MVOLT-BAC-ADR-ENC-GFKK	nLIGHT ECLYPSE WITH NEMA 1 SURFACE ENCLOSURE, ONE PS 50 (50W POWER SUPPLY), ONE nGWY2-GFX GRAPHIC TOUCH SCREEN, PS 150 POWER SUPPLY AND CAT 5E CABLE
1	nBRG 8	BRIDGE-8 PORT WITH 150 MA POWER SUPPLY

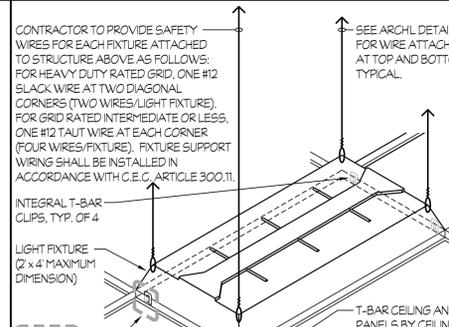
7 AUTOMATED DEMAND RESPONSE CLIENT INTERFACE AND NETWORK INTERFACE CONTROLLER (WIRING DIAGRAM)



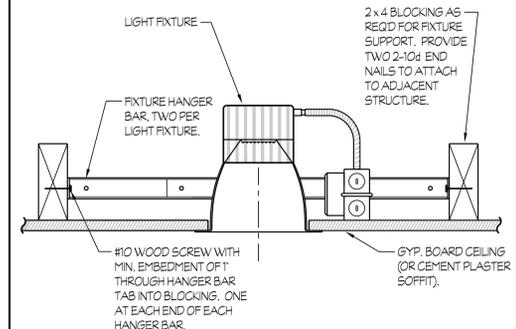
8 SENSOR SWITCH, nLIGHT DEVICES WIRING DIAGRAM (NOTE: ACTUAL SEQUENCE OF DEVICES IS TO BE PER PLANS)



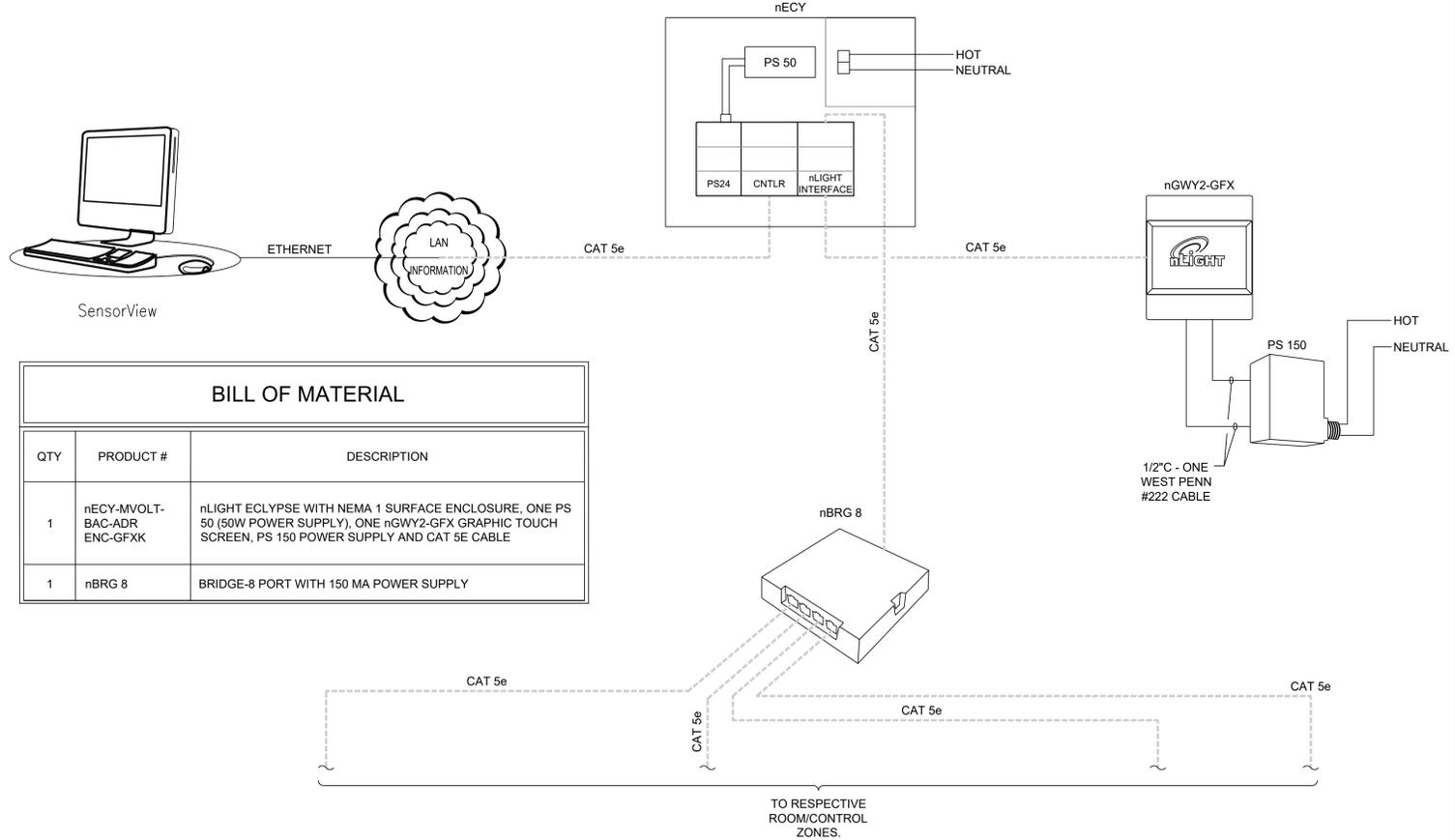
9 CROSS SECTION OF CONCRETE FOOTING



10 RECESSED FIXTURE MOUNTING



11 RECESSED DOWNLIGHT MOUNTING



7 AUTOMATED DEMAND RESPONSE CLIENT INTERFACE AND NETWORK INTERFACE CONTROLLER (WIRING DIAGRAM)

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 DETAILS

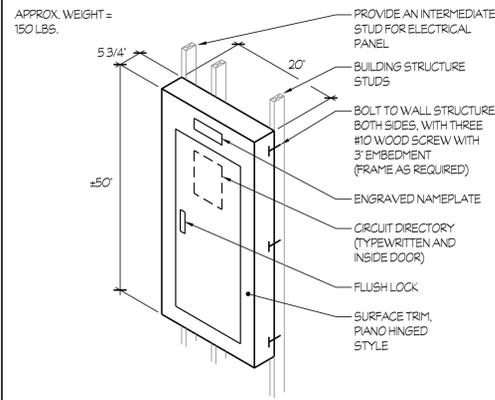
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PLAN CHECK REVISION 2  
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 DRAWN BY: CM  
 CHECKED BY: JJ  
 DATE: 2024.01.15  
 PROJECT NUMBER: 2883-01-RC22  
 SHEET: E502

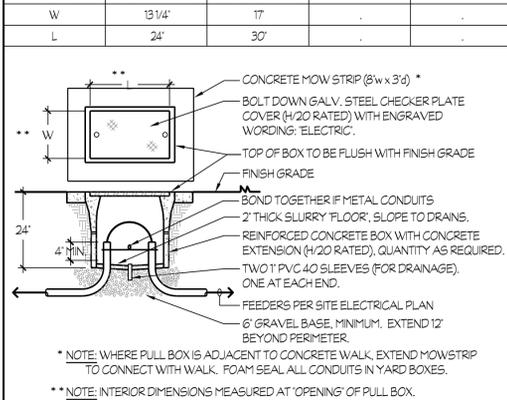
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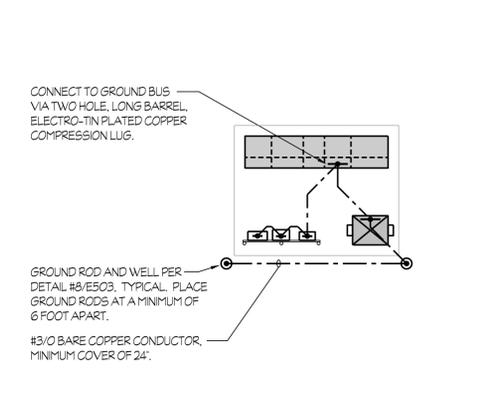
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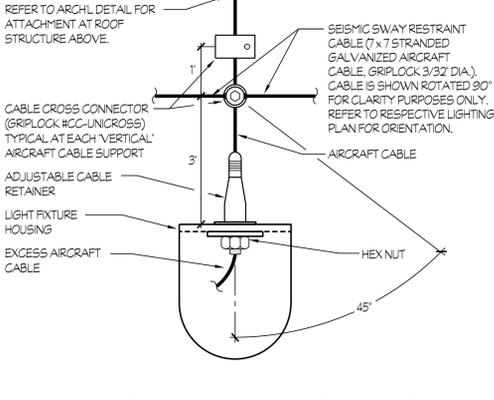
**1** SURFACE MOUNTED PANEL



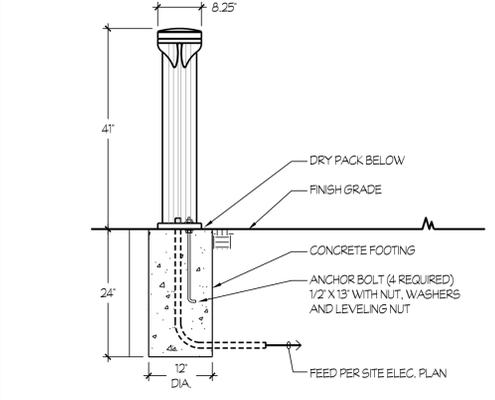
**4** PULL BOX MOUNTING



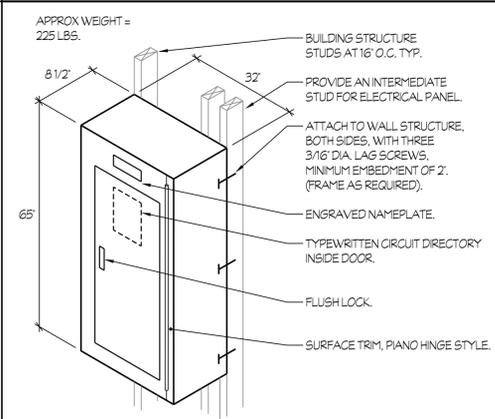
**7** MAIN SWDB 'MSB', PV INVERTERS, BATTERY STORAGE & XFMR - GROUNDING & BONDING



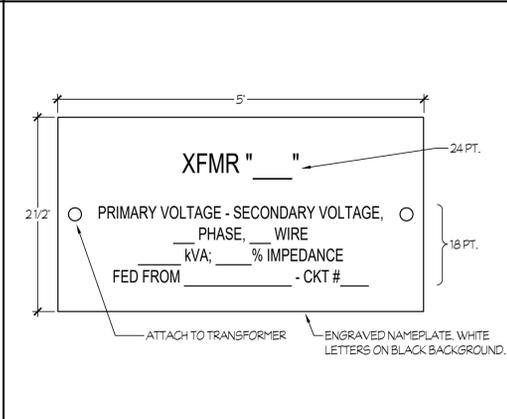
**9** SEISMIC SWAY RESTRAINT



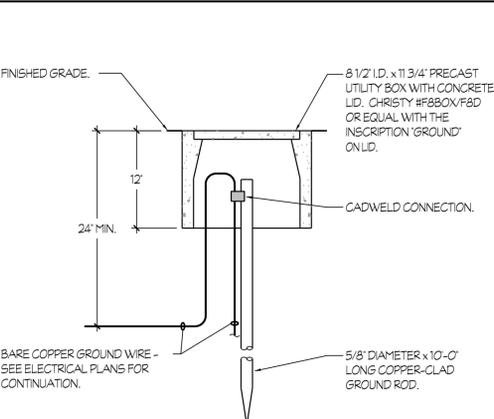
**11** BOLLARD FIXTURE MOUNTING



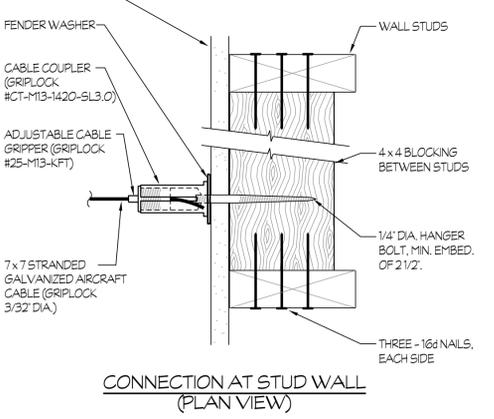
**2** DISTRIBUTION PANEL MOUNTING



**5** XFMR IDENTIFICATION

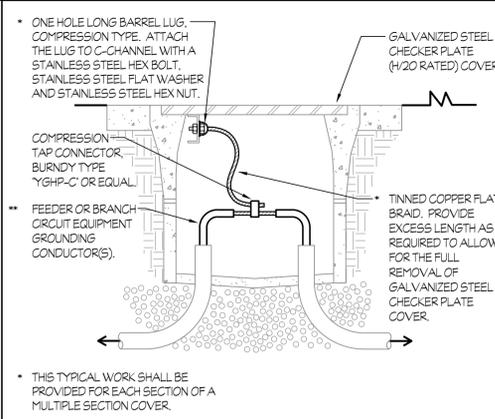


**8** GROUND WELL DETAIL

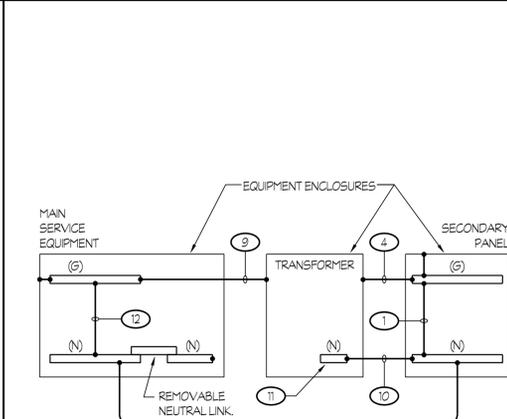


**9** SEISMIC SWAY RESTRAINT

**NOTES (DETAIL #10 ONLY):**  
 (A) ROUTE CIRCUIT THROUGH LIGHTING CONTROL PANEL 1.CP.



**3** GROUNDING AND BONDING OF STEEL CHECKER PLATE COVERS



**6** MAIN SERVICE EQUIPMENT, XFMR AND SECONDARY PANEL - GROUNDING AND BONDING

- NOTES (THIS DETAIL ONLY):**
- SYSTEM BONDING JUMPER PER C.E.C. 250.30 (1).
  - FULL SIZE GROUNDING ELECTRODE CONDUCTOR PER C.E.C., TABLE 250.66.
  - METAL WATER PIPING PER C.E.C. 250.104.
  - SUPPLY SIDE BONDING JUMPER PER C.E.C. 250.30 (A), (2).
  - OTHER ABOVEGROUND METALLIC PIPING SYSTEMS PER C.E.C. 250.104.
  - 5/8\"/>
  - BUILDING STRUCTURAL STEEL PER C.E.C. 250.104.
  - CONCRETE ENCASED ELECTRODE PER C.E.C. 250.52 (A), (3).
  - EQUIPMENT GROUND CONDUCTOR PER C.E.C., TABLE 250.122.
  - NEUTRAL CONDUCTOR PER FEEDER SCHEDULE.
  - NEUTRAL BAR.
  - MAIN BONDING JUMPER PER C.E.C. 250.28.

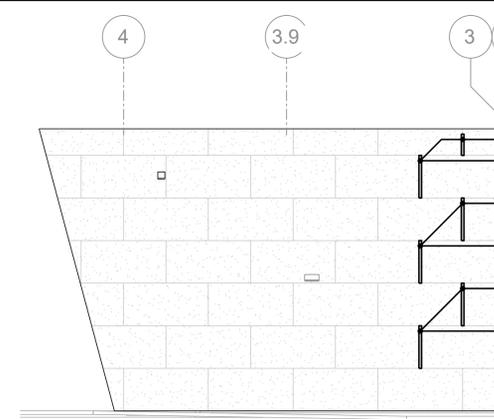
**LEGEND:**  
 (G) DENOTES THE GROUND BUS OR BAR.  
 (N) DENOTES THE NEUTRAL BUS OR BAR.

**GENERAL NOTE:**  
 ALL MATERIALS AND METHODS USED IN GROUNDING AND BONDING SHALL COMPLY WITH C.E.C. ARTICLE 250.

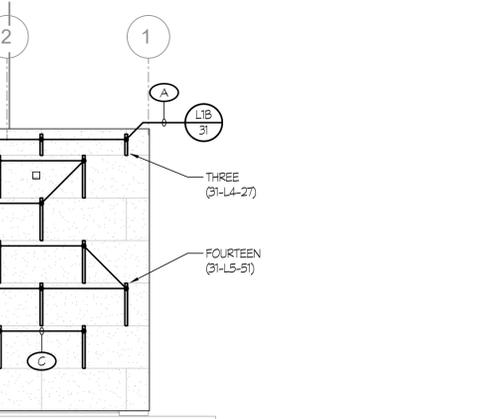
MATRIX FOR TINNED COPPER FLAT BRAID		
SIZE OF EQUIPMENT GROUNDING CONDUCTOR (G)	ALPHA WIRE PART #	OLYMPIC WIRE AND CABLE PART #
#8	1233	708
#6	1235	710
#4	1239	710
#2 THRU #1/0	1240	713
#2/0 THRU #4/0	1241	714

(G) CONTAINED IN THE LARGEST FEEDER (OR BRANCH CIRCUIT) PASSING THRU THE RESPECTIVE PULL BOX.

**3** GROUNDING AND BONDING OF STEEL CHECKER PLATE COVERS



**10** L.E.D. WALL LIGHT LOCATIONS AND CONNECTIONS



**10** L.E.D. WALL LIGHT LOCATIONS AND CONNECTIONS

**3** GROUNDING AND BONDING OF STEEL CHECKER PLATE COVERS

**6** MAIN SERVICE EQUIPMENT, XFMR AND SECONDARY PANEL - GROUNDING AND BONDING

**10** L.E.D. WALL LIGHT LOCATIONS AND CONNECTIONS

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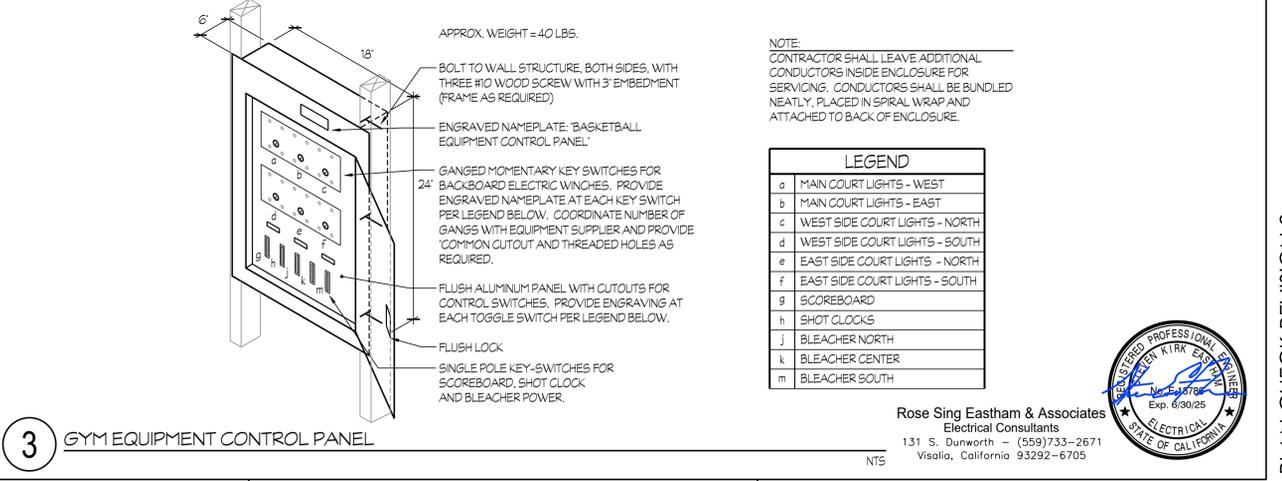
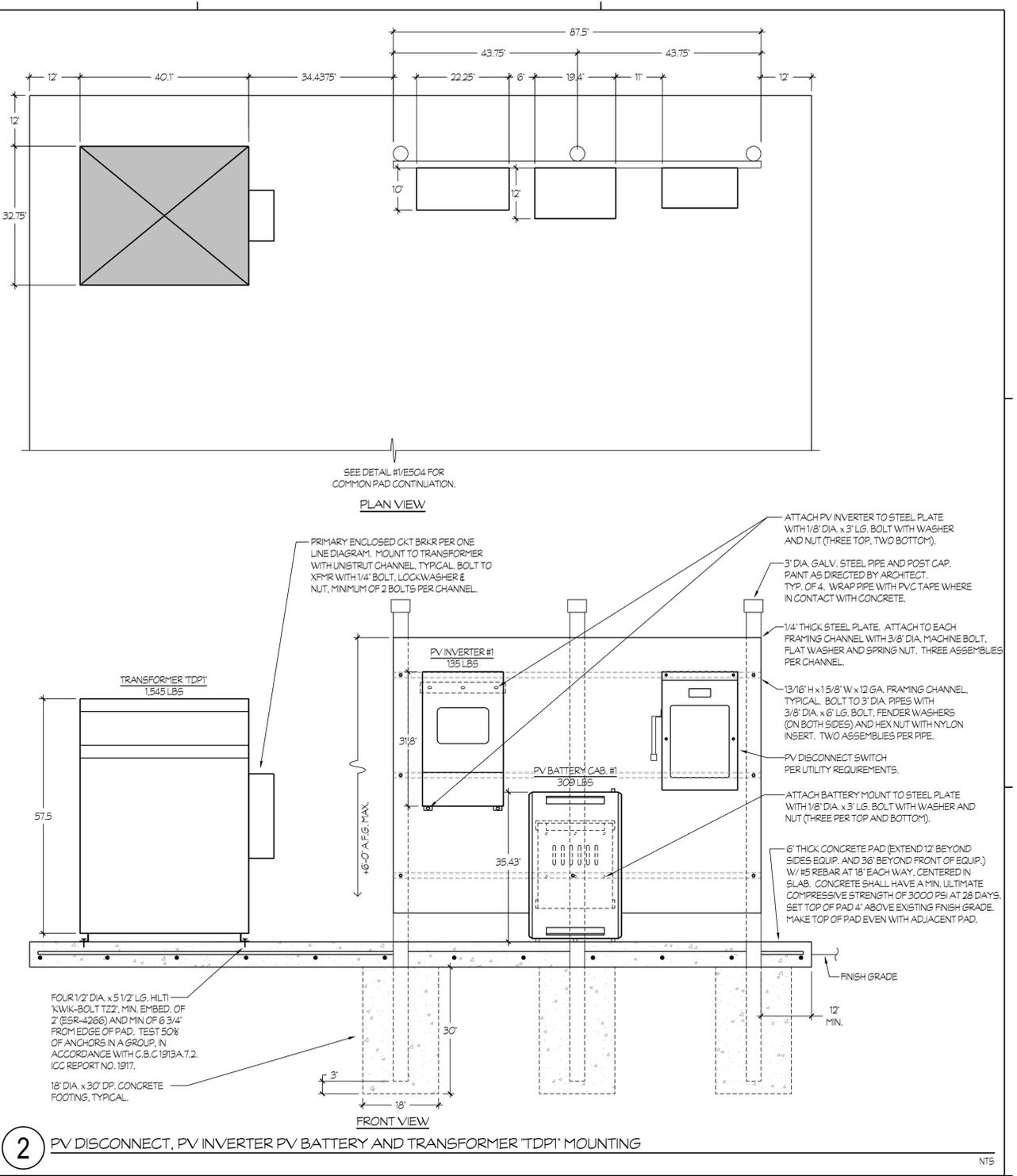
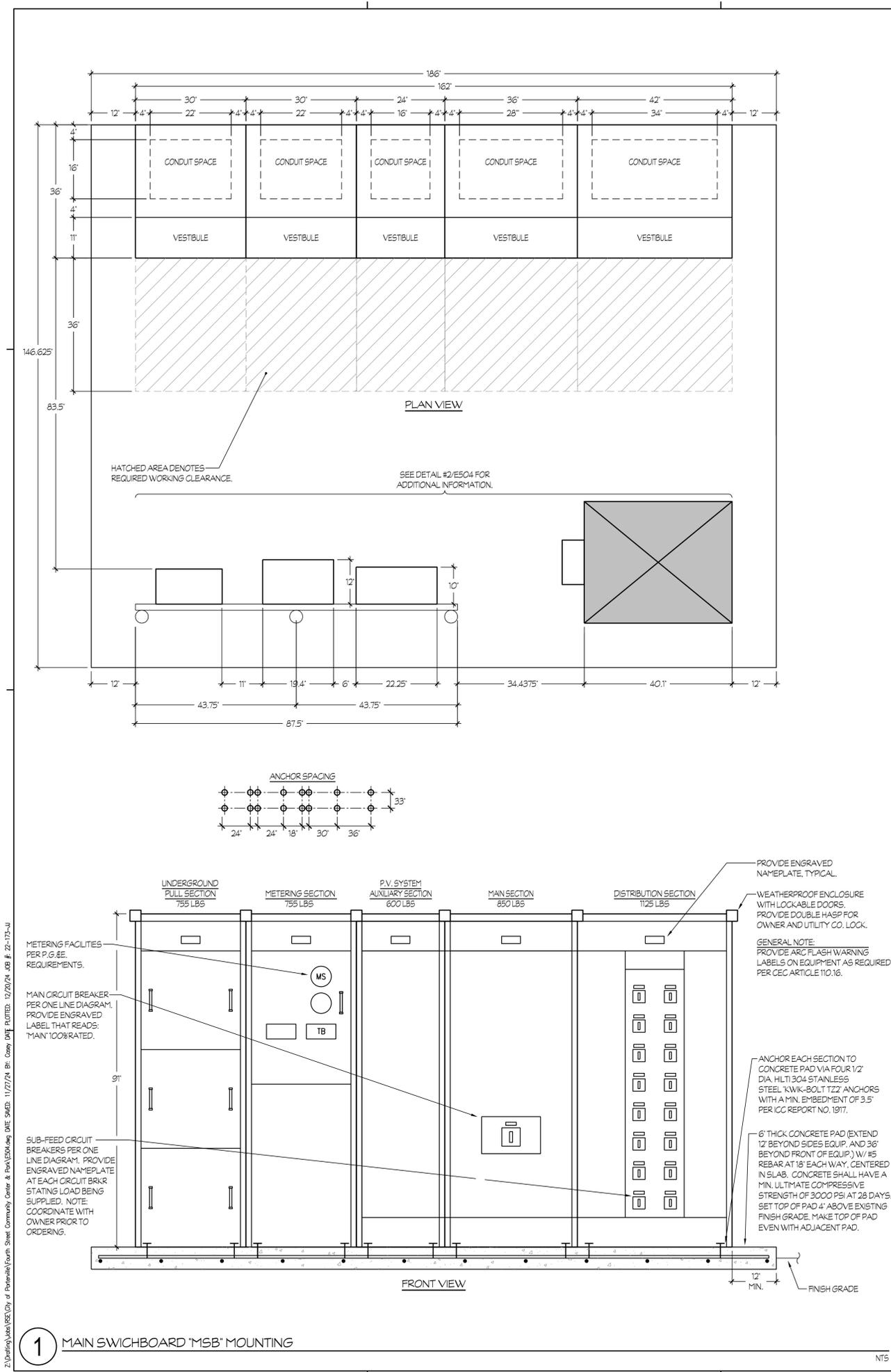
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 JJ  
**DRAWN BY**  
 CM  
**CHECKED BY**  
 JJ  
**DATE**  
 2024.01.15  
**PROJECT NUMBER**  
 2883-01-RC22  
**SHEET**



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PLAN CHECK REVISION 2

**E503**



**FOURTH ST COMMUNITY CENTER AND PARK**  
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DETAILS

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PROJECT MANAGER  
JJ

DRAWN BY  
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CHECKED BY  
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DATE  
2024.01.15

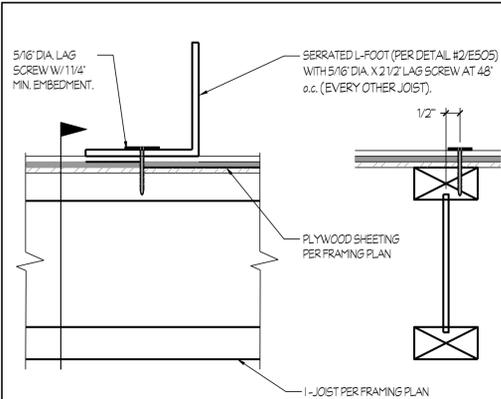
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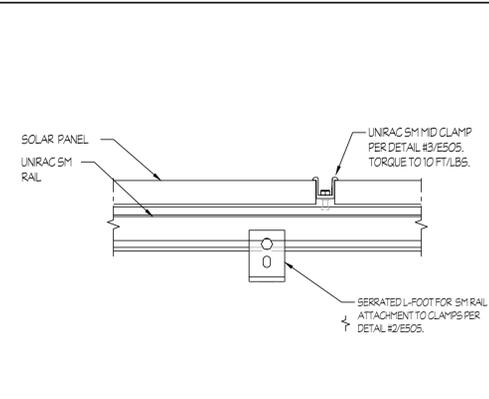
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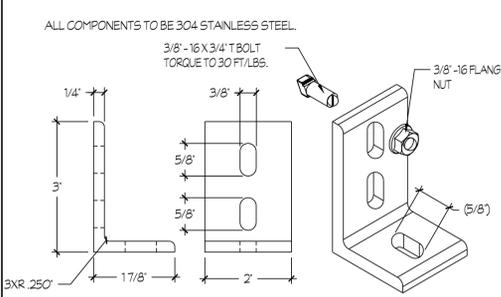
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**1 SOLAR ATTACHMENT - L FOOT**  
FOR WOOD FRAME ROOF  
NTS



**4 SOLAR PANEL MOUNT - SIDE**  
FOR WOOD FRAME ROOF  
NTS



PART # TABLE	
P/N	DESCRIPTION
304001C	L-FOOT SERR W/T-BOLT CLR

**2 SERRATED L-FOOT DETAIL**  
NTS

CEC 690.13 (B) & 705.15 (C)  
PLACE THIS LABEL ON ALL PHOTOVOLTAIC MEANS WHERE ENERGIZED IN AN OPEN POSITION.

**WARNING**  
ELECTRIC SHOCK HAZARD  
DO NOT TOUCH TERMINALS  
ON BOTH THE  
LINE AND LOAD SIDE MAY  
BE ENERGIZED IN THE  
OPEN POSITION

CEC 690.53  
PLACE THIS LABEL ON ALL PHOTOVOLTAIC DC DISCONNECTING MEANS (ON INVERTER IF INTEGRATED DC DISCONNECTS AND AT SEPARATE DC DISCONNECT IF APPLICABLE).

PHOTOVOLTAIC SYSTEM DISCONNECT  
RATED MAX POWER POINT CURRENT (MPP): 10.6A  
RATED MAX POWER POINT VOLTAGE (VMP): 550V  
MAX SYSTEM VOLTAGE (VOC): 600V  
SHORT CIRCUIT CURRENT (ISC): 11.1A

CEC 690.54  
PLACE THIS LABEL AT "INTERACTIVE POINT OF INTERCONNECTION" (AT MAIN SERVICE PANEL AND SUBPANEL IF APPLICABLE).

INVERTER "INV-1"  
INTERACTIVE PHOTOVOLTAIC POWER SOURCE  
RATED AC OUTPUT CURRENT (IAE): 27.8A  
NOMINAL OPERATING AC VOLTAGE (V): 208V, 3-PH

CEC 690.56(C)  
PLACE THIS LABEL AT SERVICE EQUIPMENT LOCATION.

**SOLAR PV SYSTEM IS EQUIPPED WITH RAPID SHUTDOWN**

TURN RAPID SHUTDOWN SWITCH TO THE "OFF" POSITION TO SHUTDOWN PV SYSTEM AND REDUCE SHOCK HAZARD IN ARRAY

SOLAR ARRAY

DISCONNECT / RAPID SHUTDOWN

BLACK LETTERING ON YELLOW BACKGROUND

**SOLAR PV SYSTEM IS EQUIPPED WITH RAPID SHUTDOWN**  
NTS

UNIRAC RACKING COMPONENTS				
1	RAIL	320168M	5M RAIL 168" MILL	DETAILS #3/E505
2	PRO SERIES END CLAMP	302035M	ENDCLAMP PRO	DETAILS #3/E505
3	PRO SERIES MID CLAMP	302030M	MIDCLAMP PRO - MILL	DETAILS #3/E505
4	STANDOFF	304001C	L-FOOT SERRATED W/T-BOLT, CLR	DETAILS #1/E505

**GENERAL NOTES:**

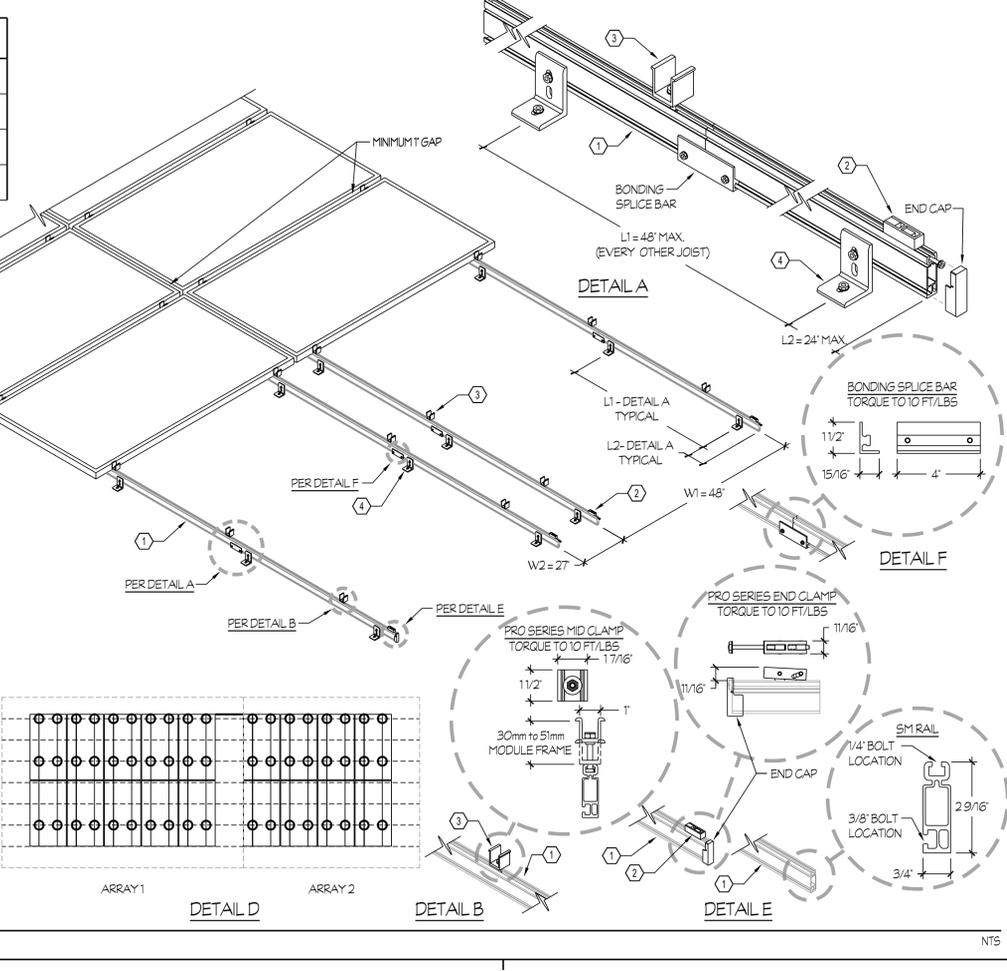
- CANTILEVER LENGTH L2 SHALL NOT BE LONGER THAN L1/3.
- SOLAR PANEL ATTACHMENT PER DETAIL #4/E505.
- ALL COMPONENT BOLTS SHALL HAVE A TORQUE VALUE PER THE MANUFACTURER'S SPECIFICATIONS.
- ALL CLAMPS AND RAILS SHALL BE BARE ALUMINUM.
- SEE SOLAR PANEL CUT SHEETS ON SHEET #E001 FOR SOLAR PANEL DIMENSIONS.
- ALL CLAMP BOLTS/NUTS SHALL BE 304 SS.

SOLAR PANEL DIMENSIONS	
WIDTH	41.1"
LENGTH	74.0"
THICKNESS	1.26"
WEIGHT	48.5 LBS.

PANEL LOAD RATING (psf)		
	PUSH	PULL
ALLOWABLE	75	55
STRENGTH LEVEL	113	84

(1) BASED ON ONE PANEL AS THE EFFECTIVE AREA.

**3 ASSEMBLY ISOMETRIC VIEW**  
NTS



- PHOTOVOLTAIC SOLAR SYSTEMS - GENERAL NOTES**
- THESE DRAWINGS HAVE BEEN PREPARED WITH INFORMATION PROVIDED IN ORIGINAL DESIGN DOCUMENTS AND HAVE NOT BEEN VERIFIED FOR ACCURACY. NEW DESIGN AND REQUIREMENTS WERE BASED ON THE ASSUMPTION OF EXISTING INFORMATION BEING ACCURATE. ANY DISCREPANCIES OR QUESTIONABLE POINTS SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER.
  - ALL ELECTRICAL MATERIALS AND EQUIPMENT SHALL BE NEW AND LISTED BY UNDERWRITER'S LABORATORIES (UL) AND BEAR THEIR LABEL, OR LISTED AND CERTIFIED BY A NATIONALLY RECOGNIZED TESTING AUTHORITY. ALL LIKE EQUIPMENT, MATERIAL, FIXTURES, ETC. SHALL BE OF SAME MANUFACTURER AT ALL TIMES - NO EXCEPTIONS. CUSTOM MADE EQUIPMENT SHALL HAVE COMPLETE TEST DATA SUBMITTED BY THE MANUFACTURER ATTESTING TO ITS SAFETY. IN ADDITION, THE MATERIALS, EQUIPMENT AND INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS, STANDARDS, RULES, AND REGULATIONS OF THE FOLLOWING AND BE MOST SUITABLE TO THE PURPOSE INTENDED:
    - AMERICAN SOCIETY OF TESTING MATERIALS (ASTM)
    - INSULATED POWER CABLE MANUFACTURERS ASSOCIATION (IPCMA)
    - NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA)
    - AMERICAN STANDARD ASSOCIATION (ASA)
    - NATIONAL FIRE PROTECTION AGENCY (NFPA)
    - AMERICAN NATIONAL STANDARD INSTITUTE (ANSI)
    - CALIFORNIA ELECTRICAL CODE (CEC), 2022 EDITION
    - CALIFORNIA CODE OF REGULATIONS TITLE 24 (CCR)
    - INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS (IEEE)
    - NATIONAL ELECTRICAL CODE (NEC), 2020 EDITION
    - ELECTRONIC INDUSTRY ASSOCIATION (EIA)
    - TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA)
  - ELECTRICAL DOCUMENTS ARE DIAGRAMMATIC AND INDICATE THE GENERAL LAYOUT OF THE COMPLETE CONSTRUCTION WORK. DO NOT SCALE THE ELECTRICAL DRAWINGS FOR LOCATIONS OF ANY ELECTRICAL, ARCHITECTURAL, STRUCTURAL, CIVIL, OR MECHANICAL ITEMS OR FEATURES. DUE TO STRUCTURAL CONDITIONS, MECHANICAL DUCTING, OR PIPING REASONS, ELECTRICAL CONTRACTOR MAY DESIRE TO INSTALL THE WORK IN A MANNER DIFFERENT FROM THAT SHOWN. ROUTING OF RACEWAYS SHALL BE AT THE OPTION OF THE CONTRACTOR UNLESS OTHERWISE NOTED AND SHALL BE COORDINATED WITH OTHER SECTIONS.
  - ALL WIRING AND CABLING SHALL BE IN CONDUIT. ALL EXPOSED CONDUITS SHALL BE RIGID, GALVANIZED STEEL OR INTERMEDIATE METAL CONDUITS (IMC) OR ELECTRICAL METALLIC TUBING (EMT). ALL CONDUITS SHALL BE INSTALLED PARALLEL WITH, OR AT RIGHT ANGLES TO THE BUILDING LINES, BEAMS, OR CEILING. ALL LONG CONDUIT RUNS SHALL INCLUDE PULL BOXES AT 100-FOOT INCREMENTS AND SIZED AS REQUIRED OR NOTED. IN ADDITION, ALL CONDUITS CROSSING CEILING STRUCTURE EXPANSIONS SHALL HAVE APPROVED EXPANSION FITTINGS ACCORDINGLY. FLEXIBLE CONDUIT IS PERMITTED ONLY FOR SHORT LENGTHS TO EQUIPMENT TERMINATION AS REQUIRED (NOT TO EXCEED 6' IN LENGTH).
  - ALL CONDUCTORS SHALL BE COPPER. CONDUCTORS #10-AWG AND LARGER SHALL BE STRANDED TYPE WITH "THW/THHN" INSULATION (75 DEGREES CELSIUS, WET OR DRY). ALUMINUM CONDUCTORS ARE NOT PERMITTED.
  - ALL FINAL CONNECTIONS TO AND INSTALLATION OF FURNISHED BY OTHERS EQUIPMENT SHALL BE MADE BY THE ELECTRICAL CONTRACTOR.
  - UTILITY PENETRATIONS OF ANY KIND IN FIRE AND SMOKE PARTITIONS AND CEILING ASSEMBLIES SHALL BE FIRE STOPPED AND SEALED WITH AN APPROVED MATERIAL SECURELY INSTALLED.
  - REFER TO SHEET #E01.1, "SEISMIC ANCHORAGE REQUIREMENTS", FOR THE SEISMIC BRACING AND ANCHORAGE OF ELECTRICAL CONDUITS.
  - SOLAR PANELS AND SUPPORT SYSTEM TO BE GROUNDED PER CEC 250 AND 690.
  - INVERTER INCLUDES INTEGRAL DC DISCONNECT UNLESS OTHERWISE NOTED.
  - SECURELY FASTEN ALL ELECTRICAL EQUIPMENT BY MEANS OF RODS, HANGERS, SUPPORTS, GUIDES, ANCHORS AND SWAY BRACES TO MAINTAIN ALIGNMENT, TO PREVENT EQUIPMENT MOVEMENT, AND TO RESIST SEISMIC FORCES. DO NOT SECURE ANY ELECTRICAL EQUIPMENT TO ACUSTICAL CEILING SUPPORT WIRES OR NON STRUCTURAL ELEMENTS.
  - STRAIGHT FEEDER, BRANCH CIRCUIT AND CONDUIT RUNS SHALL BE PROVIDED WITH SUFFICIENT PULL BOXES TO LIMIT THE MAXIMUM LENGTH OF ANY SINGLE CABLE PULL TO 100 FEET. PULL BOXES SHALL BE SIZED PER CODE OR AS INDICATED ON DRAWINGS. LOCATIONS SHALL BE DETERMINED IN THE FIELD OR AS INDICATED ON THE DRAWINGS.
  - FEEDERS:
    - 208/240 VOLTS: BLACK
    - 1000 VOLTS: RED
  - CONDUITS FOR SOLAR SYSTEMS SHALL BE IDENTIFIED WITH STENCIL MARKINGS AT 100 FOOT INCREMENTS, AT EACH INTERSECTION, AND AT EACH CROSSOVER FROM ONE AREA TO ANOTHER, PENETRATION OF WALLS, AND FLOORS WITH LETTERING 3/4" MINIMUM FOR 1" CONDUIT OR LESS, 1" MINIMUM FOR 2" CONDUIT OR LESS, AND 1-1/2" MINIMUM FOR 4" OR LESS IN THE COLORS AS FOLLOWS:
    - 208/240 VOLTS: BLACK
    - 1000 VOLTS: RED
  - ALL CONDUCTORS AND CABLES SHALL BE IDENTIFIED AT EACH JUNCTION BOX, OUTLET BOX, CABINET, PULL BOX, ETC. WITH VINYL SELF-ADHESIVE TAPE SHOWING PANEL AND CIRCUIT NUMBERS, CONTROL WIRE NUMBER OR OTHER APPROPRIATE INFORMATION REGARDING THE SYSTEM IT REPRESENTS.
  - DRAWINGS DO NOT SHOW ALL OFFSETS, BENDS, SPECIFIC FITTINGS, JUNCTION BOXES NOR PULL BOXES NECESSARY TO MEET JOB CONDITIONS. THESE ITEMS SHALL BE PROVIDED WHERE NECESSARY.
  - ALL EXISTING EQUIPMENT, MATERIAL, CONDUCTORS AND CABLES THAT ARE NOT TO BE REUSED IN THEIR PRESENT LOCATIONS SHALL BE CAREFULLY DISCONNECTED (CONDUCTORS AND CABLES REMOVED TO SOURCE OF SUPPLY) AND STORED IN A SAFE PLACE. IT SHALL BE MADE AVAILABLE FOR INSPECTION BY THE OWNER WHO WILL DESIGNATE WHAT IS TO BE STORED BY THE OWNER AND WHAT IS TO BE REMOVED FROM THE PREMISES BY THE ELECTRICAL CONTRACTOR.
  - THE ALTERATION OF THE EXISTING BUILDING IS WORK OF A COMPLEX NATURE WHICH WILL REQUIRE PLANNING, CAREFUL PREPARATION AND EXECUTION. ATTENTION TO DETAIL AND CLOSE SUPERVISION BY THE ELECTRICAL CONTRACTOR, ELECTRICAL CONTRACTOR WILL BE REQUIRED TO DO THIS WORK IN FULL COOPERATION WITH THE OTHER CONSTRUCTION TRADES AND, SUBJECT TO SCHEDULING, ARRANGE TO MINIMIZE DISRUPTION OF THE NORMAL ACTIVITIES OF THE FACILITY. ELECTRICAL CONTRACTOR TO COORDINATE ALL ACTIVITIES WITH OWNER.
  - IN AREAS WHERE THERE ARE NO ALTERATIONS INDICATED, THE EXISTING FACILITIES SHALL REMAIN IN SERVICE. IN CASE OF DOUBT, ASSUME THAT THE EXISTING ELECTRICAL SERVICE IS TO REMAIN IN OPERATION THROUGHOUT THE CONSTRUCTION PERIOD.
  - INSTALLATION OF ALL ELECTRICAL EQUIPMENT SHALL BE CAREFULLY COORDINATED WITH EXISTING CONDITIONS TO AVOID POSSIBLE INTERFERENCE PROBLEMS.
  - OUTDOOR ELECTRICAL EQUIPMENT SHALL BE INSTALLED IN SUITABLE ENCLOSURES AND SHALL BE PROTECTED FROM ACCIDENTAL CONTACT BY UNAUTHORIZED PERSONNEL, OR BY VEHICULAR TRAFFIC, OR BY ACCIDENTAL SPILLAGE OR LEAKAGE FROM PIPING SYSTEMS.
  - REFER TO MANUFACTURERS MOUNTING INSTALLATION REQUIREMENTS FOR PROPER SUPPORT SPACING AND ATTACHMENTS PER CALIFORNIA BUILDING CODE. INSTALL AS REQUIRED.
  - EXACT LOCATION OF SOLAR SYSTEM TO BE FIELD VERIFIED AND INSTALLED AS REQUIRED BY MANUFACTURER AND APPLICABLE CALIFORNIA BUILDING CODE.
  - SOLAR CIRCUIT BREAKERS SHALL BE INSTALLED ON OPPOSITE ENDS OF THE BUS BAR FROM OTHER SOURCE FEEDS (i.e. MAIN CIRCUIT BREAKER).
  - ACCESS AND WORKING SPACE SHALL BE PROVIDED AND MAINTAINED ABOUT ALL ELECTRICAL EQUIPMENT TO PERMIT READY AND SAFE OPERATION AND MAINTENANCE OF SUCH EQUIPMENT. THERE SHALL BE A MINIMUM CLEAR SPACE OF 36" IN FRONT OF EQUIPMENT; THE WIDTH OF CLEAR SPACE SHALL BE 32" AND A HEIGHT OF 6-1/2 FEET FROM GRADE.
  - THE DESIGN OF SUPPORT FRAME SYSTEM SHALL BE BASED ON CALCULATIONS OR ON TESTING IN COMPLIANCE WITH IBCS AC408 "ACCEPTANCE CRITERIA FOR MODULAR FRAMING SYSTEM USED TO SUPPORT PHOTOVOLTAIC (PV) MODULES" OR EQUAL, PER IBCS AC408.
  - SOLAR PANEL SYSTEM REQUIREMENTS
    - SOLAR PANELS SHALL BE LISTED AND LABELED IN ACCORDANCE WITH UL 1703 PER CBC FOR THE PANEL ORIENTATIONS SHOWN ON PLANS, AND THIS SHALL BE INDICATED ON THE DRAWINGS.
    - SOLAR PANEL ORIENTATION (PORTRAIT AND/OR LANDSCAPE LAYOUTS), ANCHORAGE POINT LOCATION, AND INSTALLATION TOLERANCE RANGE SHALL BE SPECIFIED ON THE DRAWINGS. PANEL CONNECTION GEOMETRY SHALL BE CONSISTENT WITH UL 1703 TESTS (AND UL 2703 TEST IF UTILIZED). IF HORIZONTAL SLIP JOINTS (e.g., THERMAL EXPANSION JOINTS) IN FRAMING MEMBERS ARE PRESENT, PANELS MUST NOT SPAN ACROSS NOR BE CONNECTED ON OPPOSING SIDES OF THE SLIP JOINTS.
    - DRAWINGS MUST SPECIFY OVERALL SOLAR PANEL DIMENSIONS AND FULLY-DIMENSIONED FRAME CONFIGURATION OF THE SPECIFIED PANEL INCLUDING HEIGHT, LENGTH, WIDTH, THICKNESS OF EACH WEB/FLANGE, AND MATERIAL GRADE.
    - DRAWINGS MUST SPECIFY THE SOLAR PANEL LOAD RATING IN POUNDS PER SQUARE FOOT (psf) BASED ON AN EFFECTIVE AREA EQUAL TO THE AREA OF ONE PV PANEL. THE LOAD RATING SHALL BE PROVIDED AS BOTH ALLOWABLE AND STRENGTH LEVEL CAPACITIES, FOR CLARITY.

CEC 705.10(D)(4)  
PLACE THIS LABEL AT UTILITY METER.

**WARNING**  
DUAL POWER SOURCE SECOND SOURCE IS PHOTOVOLTAIC SYSTEM

CEC 690.13(B)  
PLACE THIS LABEL AT ALL PV DISCONNECT POINTS.

**PV SYSTEM DISCONNECT**

CEC 690.56(C)(2)  
PLACE THIS LABEL AT PV RAPID SHUTDOWN SWITCH.

**RAPID SHUTDOWN SWITCH FOR SOLAR PV SYSTEM**

CEC 705.12(B)(3)  
PLACE THIS LABEL AT P.O.C. TO SERVICE DISTRIBUTION EQUIPMENT (I.E. MAIN PANEL AND SUBPANEL IF APPLICABLE).

**WARNING**  
POWER SOURCE OUTPUT CONNECTION DO NOT RELOCATE THIS OVERCURRENT DEVICE

CALIFORNIA STATE FIRE MARSHAL PHOTOVOLTAIC INSTALLATION GUIDELINES LABELS

PLACE ON ALL CONDUIT, LOCATED ON ROOF, INTERIOR AND EXTERIOR, EVERY 5 FEET, AT TURNS AND ABOVE AND/OR BELOW PENETRATIONS AND ALL DC COMBINER AND JUNCTION BOXES, IN 3/4" WHITE LETTERING ON RED BACKGROUND, ON FADE-RESISTANT MATERIAL.

**WARNING: PHOTOVOLTAIC POWER SOURCE**

PLACE THIS LABEL WITHIN MAIN SERVICE DISCONNECT (OR ON OUTSIDE IF DISCONNECT IS OPERABLE WITH COVER CLOSED)

**CAUTION: SOLAR ELECTRIC SYSTEM**

REFLECTIVE, WHITE LETTERING ON RED BACKGROUND, TYPICAL UNLESS OTHERWISE NOTED

CEC 705.10  
PLACE A PERMANENT PLAQUE DENOTING ALL ELECTRIC POWER SOURCES ON OR IN THE PREMISES AT THE SERVICE EQUIPMENT LOCATION AND AT ALL ELECTRIC POWER PRODUCTION SOURCES CAPABLE OF INTERCONNECTION.

**CAUTION MULTIPLE SOURCES OF POWER**

SOLAR ARRAY

DISCONNECT / RAPID SHUTDOWN

Rose Sing Eastham & Associates  
Electrical Consultants  
131 S. Dunworth - (559) 733-2671  
Visalia, California 93292-6705

NO.	REVISION	DATE
5	ADDENDUM 6	12/20/24
4		
3		
2		
1		

PROJECT MANAGER  
JJ

DRAWN BY  
CM

CHECKED BY  
JJ

DATE  
2024.01.15

PROJECT NUMBER  
2883-01-RC22

SHEET  
E505



P:\working\2024\City of Porterville\Fourth Street Community Center & Park\2024.dwg DATE: 11/27/24 BY: Rose Sing Eastham 12/20/24 488 P. 22-175-JJ



powered by **Q.ANTUM DUO Z**



## Q. PEAK DUO ML-G10+

395-415  
ENDURING HIGH PERFORMANCE

**25 Year Warranty**

**2021 TOP BRAND PV MODULE AWARDS**

**Q CELLS** Valid Warranty

**BREAKING THE 20% EFFICIENCY BARRIER**  
Q.ANTUM DUO Z Technology with zero gap cell layout boosts module efficiency up to 21.4%.

**THE MOST THOROUGH TESTING PROGRAMME IN THE INDUSTRY**  
Q CELLS is the first solar module manufacturer to pass the most comprehensive quality programme in the industry. The new "Quality Controlled PV" of the independent certification institute TÜV Rheinland.

**INNOVATIVE ALL-WEATHER TECHNOLOGY**  
Optimal yields, whatever the weather with excellent low-light and temperature behavior.

**ENDURING HIGH PERFORMANCE**  
Long-term yield security with Anti LID Technology, Anti PID Technology\*, Hot-Spot Protect and Traceable Quality Tra.Q™.

**EXTREME WEATHER RATING**  
High-tech aluminum alloy frame, certified for high snow (5400 Pa) and wind loads (4000 Pa).

**A RELIABLE INVESTMENT**  
Inclusive 25-year product warranty and 25-year linear performance warranty\*.

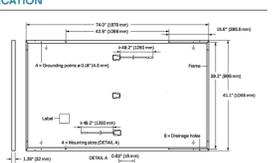
**THE IDEAL SOLUTION FOR:**  
Rooftop arrays on residential buildings

Engineered in Germany



### MECHANICAL SPECIFICATION

Format	74.0in x 41.1in x 1.26in (including frame) (1879mm x 1045mm x 32mm)
Weight	48.5 lbs (22.0 kg)
Front Cover	0.13in (3.2mm) thermally-stressed glass with anti-reflection technology
Back Cover	Composite film
Frame	Black anodized aluminum
Cell	6 x 22 monocrystalline Q.ANTUM solar half cells
Cell	0.09 x 3.96in x 1.26 x 2.36in (0.50 x 0.71m)
Junction Box	0.53-1.01mm x 32-60mm x 15-18mm, IP67, with bypass diodes
Cable	4mm² Solar cable, (+) x 49.2in (1250mm), (-) x 49.2in (1250mm)
Connector	Stäubli MCA-IP68



### ELECTRICAL CHARACTERISTICS

POWER CLASS	395	400	405	410	415	
MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC* (POWER TOLERANCE ±5W / -0W)						
Power at MPP	P <sub>MPP</sub> [W]	395	400	405	410	415
Short Circuit Current	I <sub>sc</sub> [A]	11.13	11.16	11.19	11.22	11.26
Open Circuit Voltage	V <sub>oc</sub> [V]	45.03	45.06	45.09	45.13	45.16
Current at MPP	I <sub>MPP</sub> [A]	10.58	10.64	10.70	10.76	10.82
Voltage at MPP	V <sub>MPP</sub> [V]	37.32	37.59	37.85	38.11	38.37
Efficiency <sup>1</sup>	η [%]	>20.1	>20.4	>20.6	>20.9	>21.1
MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NMOT <sup>2</sup>						
Power at MPP	P <sub>MPP</sub> [W]	296.4	300.1	303.9	307.6	311.4
Short Circuit Current	I <sub>sc</sub> [A]	8.97	8.99	9.02	9.04	9.07
Open Circuit Voltage	V <sub>oc</sub> [V]	42.46	42.49	42.52	42.56	42.59
Current at MPP	I <sub>MPP</sub> [A]	8.33	8.38	8.43	8.48	8.53
Voltage at MPP	V <sub>MPP</sub> [V]	35.59	35.82	36.04	36.27	36.49

<sup>1</sup>Measurement tolerances P<sub>MPP</sub> ±3%, I<sub>sc</sub> V<sub>oc</sub> ±5% at STC: 1000W/m², 25±2°C, AM 1.5 according to IEC 60904-3-7800W/m², NMOT, spectrum AM 1.5

### Q CELLS PERFORMANCE WARRANTY

At least 98% of nominal power during that year. Thereafter max. 0.5% degradation per year. At least 93.5% of nominal power up to 10 years. At least 90% of nominal power up to 25 years.

All data with measurement tolerances. Full warranties in accordance with the warranty terms of the Q CELLS sales representative of your respective country.

### TEMPERATURE COEFFICIENTS

Temperature Coefficient of I <sub>sc</sub>	α [%/K]	+0.04	Temperature Coefficient of V <sub>oc</sub>	β [%/K]	-0.27
Temperature Coefficient of P <sub>MPP</sub>	γ [%/K]	-0.34	Nominal Module Operating Temperature	NMOT [°F]	109 ± 5.4 (43 ± 3°C)

### PROPERTIES FOR SYSTEM DESIGN

Maximum System Voltage V <sub>max</sub> [V]	1000 (IEC/1000 IUL)	PV module classification	Class II
Maximum Series Fuse Rating [A DC]	20	Fire Rating based on ANSI/UL 61730	TYPE 2
Max. Design Load, Push/Pull <sup>1</sup> [lbw/ft]	75 (2600Pa)/55 (2060Pa)	Permitted Module Temperature on Continuous Duty	-40°F up to +185°F (-40°C up to +85°C)
Max. Test Load, Push/Pull <sup>1</sup> [lbw/ft]	113 (6400Pa)/84 (4000Pa)		

<sup>1</sup>See Installation Manual

### QUALIFICATIONS AND CERTIFICATES

UL 61730, CE compliant, Quality Controlled PV, TÜV Rheinland, IEC 61215/2016, IEC 61730/2016, U.S. Patent No. 8,980,210 (see cells), GCRV Certificate ongoing

### PACKAGING INFORMATION

Horizontal packaging	76.4in	43.3in	48.0in	1656lbs	24	24	32
	1940mm	1100mm	1220mm	751kg	packets	packets	modules

Note: Installation instructions must be followed. See the installation and operating manual or contact our technical service department for further information on approved installation and use of this product.

Hanaho Q CELLS America Inc.  
400 Spectrum Center Drive, Suite 1400, Irvine, CA 92618, USA | TEL: +1 949 748 59 98 | EMAIL: inquiry@q-cells.com | WEB: www.q-cells.com

480/277V, 3 PH, 4 W  
400 A. BUSSING 400 A. MAIN BKR.  
42 CIRCUIT

22K BREAKER A.I.C.  
5 3/4" MAX. ENCL. DEPTH  
SURF MOUNTING

### PANEL "H1A"

Ckt	Circuit	LOAD: V.A.			DESCRIPTION	DESCRIPTION	LOAD: V.A.			Ckt	
		A	B	C			C	B	A		
1	20/1	919			LIGHTS - GYM	LIGHTS - EXTERIOR			465	20/1	2
3	20/1		917		LIGHTS - GYM	LIGHTS - EXTERIOR EMG		525		20/1	4
5	20/1			917	LIGHTS - GYM	LIGHTS - TEEN SPACE	1218			20/1	6
7	20/1	917			LIGHTS - GYM	LIGHTS - OFFICES			1697	20/1	8
9	20/1		919		LIGHTS - GYM	LIGHTS - PARKING LOT		1104		20/1	10
11	20/1			1040	LIGHTS - RAQUET BALL	LIGHTS - WALKWAY	117			20/1	12
13	60/3	8089						8781		60/3	14
15			8089		PHP-1, 29.2 FLA	PHP-3, 31.7 FLA		8781			16
17				8089				8781			18
19	35/3	4848				SPARE				20/1	20
21			4848		PHP-2, 17.5 FLA	SPARE				20/1	22
23				4848		SPARE				20/1	24
25	15/3	1330				SPARE				20/1	26
27			1330		BP-1, 4.8 FLA	SPARE				20/1	28
29				1330		SPARE				20/1	30
31	20/1				SPARE	SPACE					32
33	20/1				LIGHTS - MINI PITCH	SPACE					34
35					SPACE	SPACE					36
37	175/3	25041						25041		175/3	38
39			25041		PHP-4A, 90.4 FLA	PHP-4B, 90.4 FLA		25041			40
41				25041				25041			42

LOAD SUMMARY				A	B	C				
CONNECTED LOAD (VA) :				77128	76595	76422	TOTAL CALCULATED			
25% LCL/LML (VA) :				1000	866	823	LOAD FOR PANEL:			
TOTAL LOAD (VA) :				78128	77461	77245	232834 VA			
TOTAL LOAD (AMPS) :				282.0	279.6	278.9				

120/208V, 3 PH, 4 W  
400 A. BUSSING NO MAIN BKR.  
42 CIRCUIT

22K BREAKER A.I.C.  
5 3/4" MAX. ENCL. DEPTH  
SURF MOUNTING

### PANEL "EV"

Ckt	Circuit	LOAD: V.A.			DESCRIPTION	DESCRIPTION	LOAD: V.A.			Ckt	
		A	B	C			C	B	A		
1	40/2	3600			E.V. STATION	FUTURE E.V. STATION			3600	40/2	2
3			3600						3600		4
5	40/2			3600	E.V. STATION	FUTURE E.V. STATION	3600			40/2	6
7		3600							3600		8
9	40/2			3600	FUTURE E.V. STATION	FUTURE E.V. STATION		3600		40/2	10
11			3600					3600			12
13	40/2	3600			FUTURE E.V. STATION	FUTURE E.V. STATION			3600	40/2	14
15			3600					3600			16
17	40/2			3600	FUTURE E.V. STATION	FUTURE E.V. STATION	3600			40/2	18
19		3600							3600		20
21	40/2			3600	FUTURE E.V. STATION	FUTURE E.V. STATION			3600	40/2	22
23			3600					3600			24
25	40/2	3600			FUTURE E.V. STATION	FUTURE E.V. STATION			3600	40/2	26
27			3600					3600			28
29	40/2			3600	FUTURE E.V. STATION	FUTURE E.V. STATION			3600	40/2	30
31		3600							3600		32
33	40/2			3600	FUTURE E.V. STATION	SPACE				20/1	34
35			3600			SPACE				20/1	36
37					SPACE	SPACE					38
39					SPACE	SPACE					40
41					SPACE	SPACE					42

LOAD SUMMARY				A	B	C				
CONNECTED LOAD (VA) :				39600	39600	36000	TOTAL CALCULATED			
25% LCL/LML (VA) :				0	0	0	LOAD FOR PANEL:			
TOTAL LOAD (VA) :				39600	39600	36000	115200 VA			
TOTAL LOAD (AMPS) :				330.0	330.0	300.0				

120/208V, 3 PH, 4 W  
225 A. BUSSING NO MAIN BKR.  
42 CIRCUIT

22K BREAKER A.I.C.  
5 3/4" MAX. ENCL. DEPTH  
SURF MOUNTING

### PANEL "L1A"

Ckt	Circuit	LOAD: V.A.			DESCRIPTION	DESCRIPTION	LOAD: V.A.			Ckt	
		A	B	C			C	B	A		
1	30/1	2500			RECEPT - DATA RACK	AUTO DEMAND RESPONSE			500	20/1	2
3	20/1		1250		RECEPT - DATA RACK	LIGHTING CONTROL PNL		500		20/1	4
5	20/1			1250	RECEPT - DATA RACK	F.A. CONTROL PANEL	500			20/1	6
7	20/1	900			RECEPT - GYM	RECEPT - GYM			1080	20/1	8
9	20/1		720		RECEPT - GYM	RECEPT - GYM		900		20/1	10
11	20/1			900	RECEPT - STOR. TEEN	RECEPT - STORAGE	720			20/1	12
13	20/1	720			RECEPT - TEEN, EXTER.	RECEPT - TEL BKBD.			360	20/1	14
15	20/1		1000		RECEPT - T.V.'S	RECEPT - TEEN STUDY		900		20/1	16
17	20/1			1000	RECEPT - T.V.'S	RECEPT - TEEN STUDY	720			20/1	18
19	20/1	540			RECEPT - TOILET	RECEPT - CONTROLLED			180	20/1	20
21	20/1		370		RECEPT - E.D.F.	RECEPT - OFFICES		1080		20/1	22
23	20/1			540	RECEPT - CONTROLLED	RECEPT - OFFICES		1080		20/1	24
25	20/1	540			RECEPT - CONTROLLED	RECEPT - TOILETS			360	20/1	26
27	20/1		360		RECEPT - CONTROLLED	RECEPT - OFFICE		1080		20/1	28
29	20/1			500	FIRE ALARM RISER BELL	RECEPT - TEEN STUDY	540			20/1	30
31	20/1	500			SIGN LIGHTS MONUMENT	RECEPT - TEEN STUDY			360	20/1	32
33	20/1		500		SIGN LIGHT ON BLDG	RECEPT - TEEN STUDY				20/1	34
35	20/1				SPARE	SPACE				20/1	36
37					SPACE	SPACE					38
39					SPACE	SPACE					40
41					SPACE	SPACE					42

LOAD SUMMARY				A	B	C				
CONNECTED LOAD (VA) :				8540	8660	7750	TOTAL CALCULATED			
25% LCL/LML (VA) :				0	0	0	LOAD FOR PANEL:			
TOTAL LOAD (VA) :				8540	8660	7750	24950 VA			
TOTAL LOAD (AMPS) :				71.2	72.2	64.6				

120/208V, 3 PH, 4 W  
225 A. BUSSING NO MAIN BKR.  
42 CIRCUIT

22K BREAKER A.I.C.  
5 3/4" MAX. ENCL. DEPTH  
SURF MOUNTING

### PANEL "L1B"

Ckt	Circuit	LOAD: V.A.			DESCRIPTION	DESCRIPTION	LOAD: V.A.			Ckt	
		A	B	C			C	B	A		
1	20/1	180			RECEPT - W.P. ON ROOF	RECEPT - W.P. ON ROOF			360	20/1	2
3	30/2		2520		WATER HEATER	HPC-1/FC-1		2400		40/2	4
5				2520				2400			6
7	20/1	228			RECEPT - SCRBRD. SHOT CLKS	HPC-2/FC-2			3325	50/2	8
9	20/1		1200		RECEPT - ELEC. WINCH			3325			10
11	20/1			1200	RECEPT - ELEC. WINCH		2400			40/2	12
13	20/1	1200			RECEPT - ELEC. WINCH	DS-1, 20 FLA			2400		14
15	20/1		1200		RECEPT - ELEC. WINCH	SPLASH PAD		1200		20/1	16
17	20/1			1200	RECEPT - ELEC. WINCH	SPLASH PAD		1200		20/1	18
19	20/1	1200			RECEPT - ELEC. WINCH	BOOSTER PUMP			1440	25/2	20
21	20/1		1800		HAND DRYER			1440			22
23	20/1			1800	HAND DRYER	EF-2, EF-3		1000		20/1	24
25	20/1	27			CP-1	MOTORIZED BLEACHERS			744	20/1	26
27	20/1		744		MOTORIZED BLEACHERS	IRRIGATION CONTROLLER		330		20/1	28
29	20/1			744	MOTORIZED BLEACHERS	BOOSTER PUMP		2040		30/2	30
31	20/1	1230			LIGHTS - EXTERIOR				2040		32
33	20/1				SPARE	SPACE				20/1	34
35	20/1				SPACE	SPACE				20/1	36
37					SPACE	SPACE					38
39					SPACE	SPACE					40
41					SPACE	SPACE					42

LOAD SUMMARY				A	B	C				
CONNECTED LOAD (VA) :				14374	16159	16504	TOTAL CALCULATED			
25% LCL/LML (VA) :				308	0	0	LOAD FOR PANEL:			
TOTAL LOAD (VA) :				14682	16159	16504	47345 VA			
TOTAL LOAD (AMPS) :				122.3	134.7	137.6				

TYPICAL PANEL SCHEDULE NOTES:

(1) PROVIDE A LOCK-ON DEVICE AT THIS CIRCUIT BREAKER, RED IN COLOR, SPACEAGE HELOCK-FA OR EQUAL. PROVIDE AN ENGRAVED NAMEPLATE: FIRE ALARM CIRCUIT, WHITE LETTERS ON A RED BACKGROUND. MOUNT NAMEPLATE ONTO INTERIOR TRIM AND ADJACENT TO CIRCUIT BREAKER.

(2) PROVIDE SUB-FEED CIRCUIT BREAKER.

**rrm design group**

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3765 SOUTH HIGUERA STREET, SUITE 102  
SAN LUIS OBISPO, CA 93401

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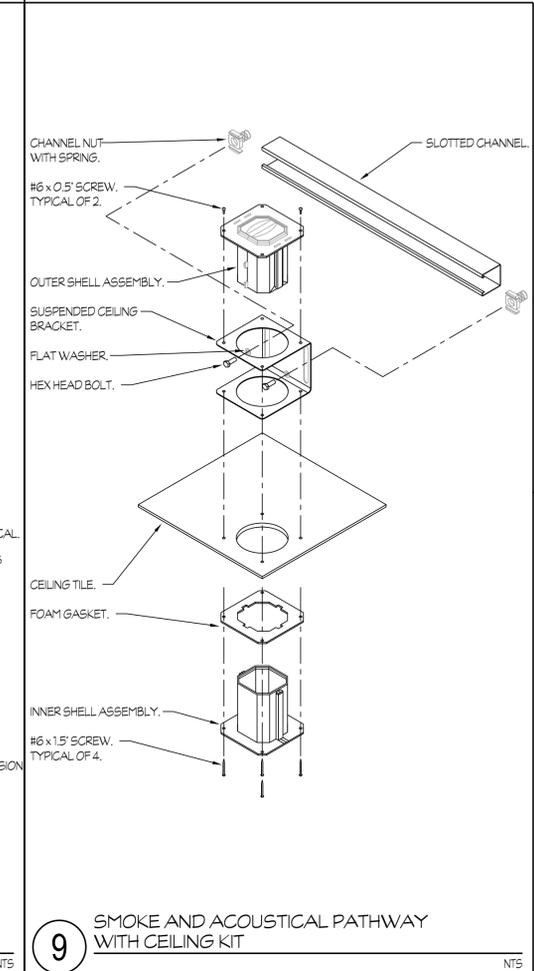
**FOURTH ST COMMUNITY CENTER AND PARK**  
HENDERSON AVE., PORTERVILLE, CA 93257

**SIGNALS SYMBOLS, CODES, NOTES AND DETAILS**

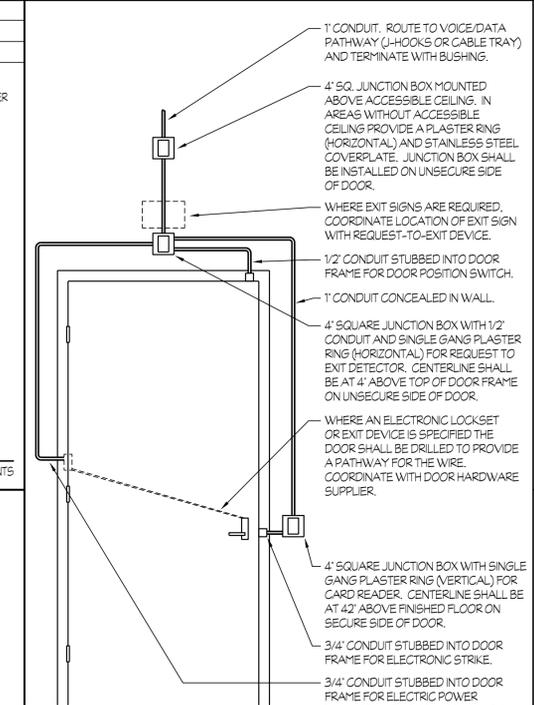
NO.	REVISION	DATE
5	ADDENDUM 6	12/20/24
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PROJECT MANAGER	
JJ	
DRAWN BY	CHEKED BY
CM	JJ
DATE	
2024.01.15	
PROJECT NUMBER	
2883-01-RC22	
SHEET	
TG101	

PLAN CHECK REVISION 2

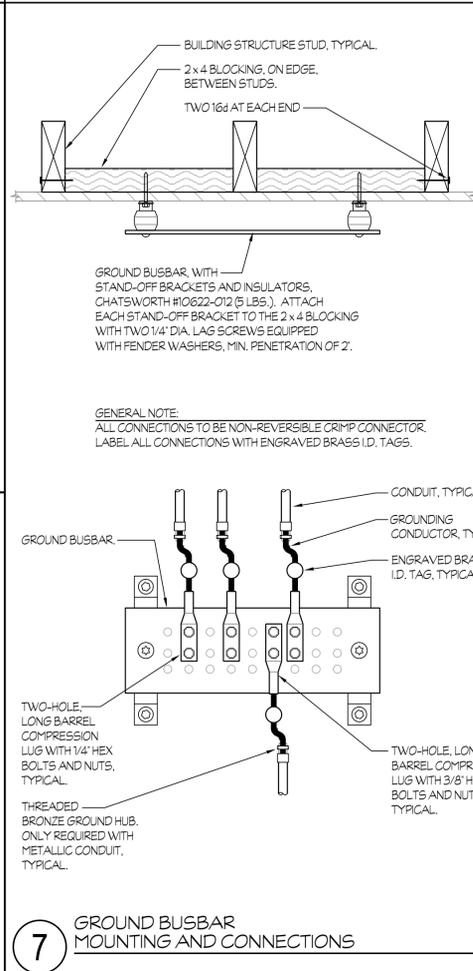


**9 SMOKE AND ACOUSTICAL PATHWAY WITH CEILING KIT** NTS

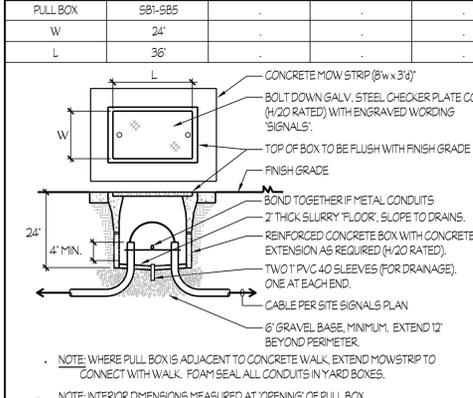


**10 ACCESS CONTROL ROUGH-IN** NTS

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**7 GROUND BUSBAR MOUNTING AND CONNECTIONS** NTS

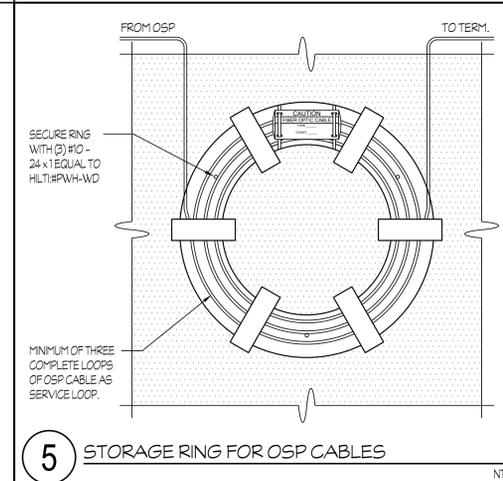


**8 PULL BOX MOUNTING** NTS

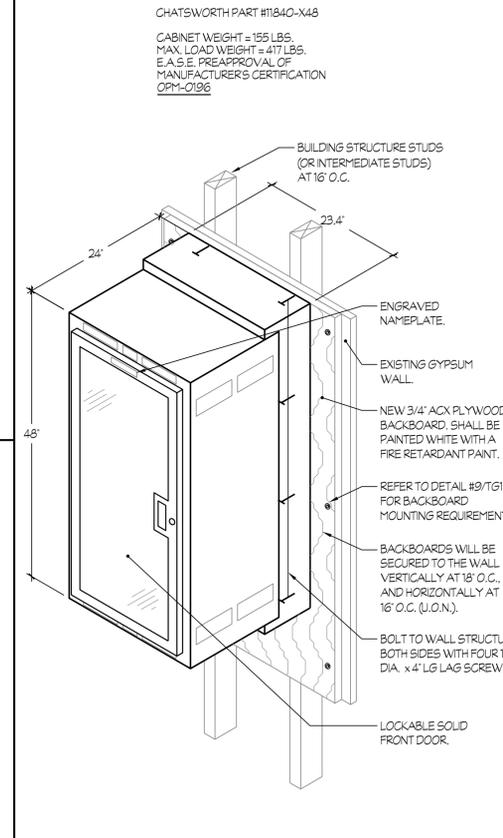
- NOTES (THIS DETAIL ONLY):**
- BACKBOARDS SHALL BE 3/4" ACX PLYWOOD AND PAINTED WHITE WITH A FIRE RETARDANT PAINT.
  - BACKBOARDS SHALL BE ATTACHED TO THE BUILDING STRUCTURE STUDS WITH #8 x 2 1/2" LG. FLAT-HEAD PHILLIPS WOOD SCREWS. SCREW HEAD SHALL BE COUNTER SUNK TO BE FLUSH WITH THE FACE OF BACKBOARD.
  - BACKBOARDS WILL BE SECURED TO THE WALL VERTICALLY AT 18" O.C. AND HORIZONTALLY AT 16" O.C. (U.O.N.).
  - PROVIDE CUTOUTS FOR ALL DUPLEX AND/OR QUADRUPEX RECEPTACLES.



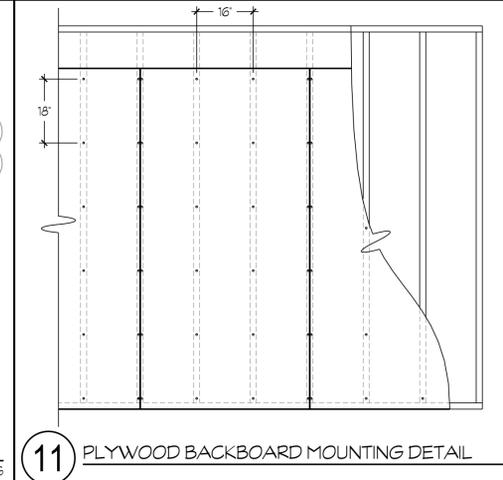
**11 PLYWOOD BACKBOARD MOUNTING DETAIL** NTS



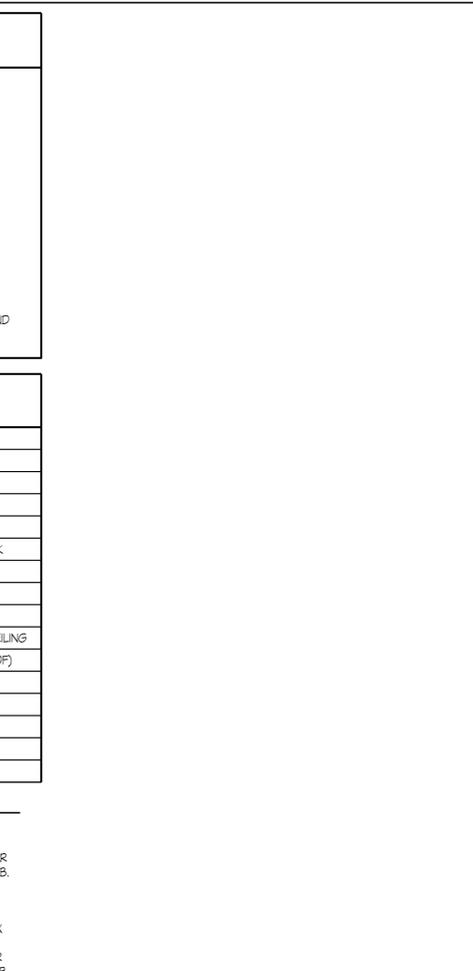
**5 STORAGE RING FOR OSP CABLES** NTS



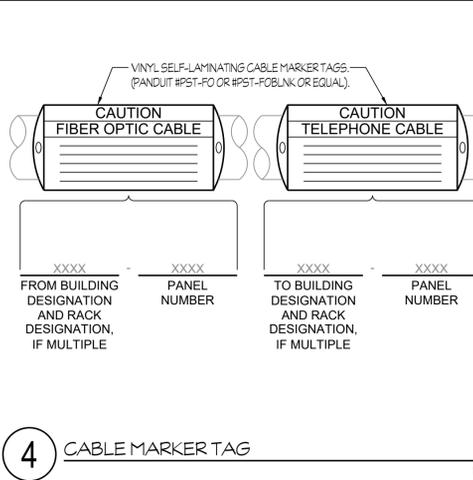
**6 HC/IDF CABINET WALL RACK MOUNTING** NTS



**11 PLYWOOD BACKBOARD MOUNTING DETAIL** NTS



**3 DATA OUTLET IDENTIFICATION MATRIX** NTS



**4 CABLE MARKER TAG** NTS

**SIGNALS / TELECOMMUNICATIONS APPLICABLE CODES AND STANDARDS**

**CODES:**  
2022 CALIFORNIA ELECTRICAL CODE (C.E.C.)

**STANDARDS AND GUIDES:**  
NFPA 72 - NATIONAL FIRE ALARM CODE, (CALIFORNIA AMENDED)  
ANSI/BICSI - TELECOMMUNICATIONS DISTRIBUTION METHODS MANUAL (TDM), 19TH EDITION OR NEWER.  
ANSI/BICSI 001-2017 - INFORMATION AND COMMUNICATION TECHNOLOGY SYSTEMS DESIGN AND IMPLEMENTATIONS BEST PRACTICES FOR EDUCATIONAL INSTITUTIONS AND FACILITIES.  
ANSI/BICSI 005-2016 - ELECTRONIC SAFETY AND SECURITY (ESS) SYSTEM DESIGN AND IMPLEMENTATIONS BEST PRACTICES.

**SIGNALS SYMBOLS**  
ALL DIMENSIONS TO TOP OF BOX, U.O.N.

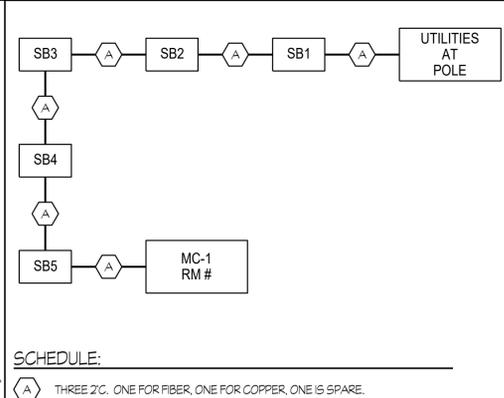
①	ELECTRICAL KEYNOTE #1, REFER TO NOTES ON SAME SHEET.
U.O.N.	UNLESS OTHERWISE NOTED
→	CONDUIT RUN IN WALL OR ATTIC
→→	CONDUIT RUN IN FLOOR OR UG
→	CONDUIT STUB - CAPPED AND LABELED.
→	HOMERUN CONDUIT TO NEAREST CROSS CONNECT OR SOUND EQUIPMENT RACK
→	CONDUIT SLEEVE
(A)	DATA OUTLET IN WALL (18" U.O.N.) (3' D' CABLES)
(A)	DATA OUTLET IN CEILING WIRELESS ACCESS POINT (2' D' CABLES)
(B)	PUBLIC ADDRESS SPEAKER, FLUSH MOUNTED IN WALL (48" U.O.N.) OR HARD CEILING
(B)	PUBLIC ADDRESS HORN, FLUSH MOUNTED IN WALL +120" U.O.N. (WEATHERPROOF)
(C)	INTRUSION ALARM KEY PAD (48" U.O.N.)
(C)	INTRUSION ALARM DOOR CONTACT IN DOOR FRAMING
(C)	INTRUSION ALARM SIREN, ON WALL (48" U.O.N.)
(C)	MC LOCATION
(C)	ACCESS CONTROL CARD READER

**SIGNALS SYMBOLS NOTES:**

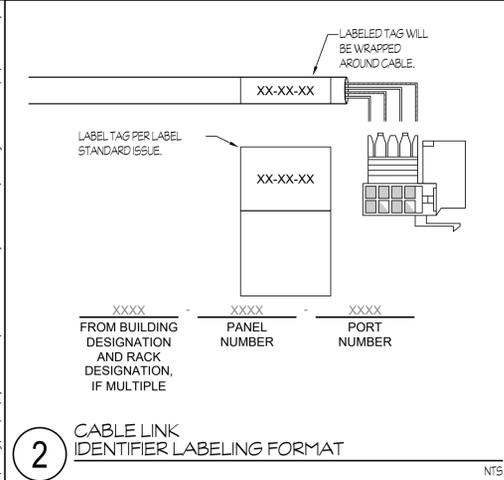
(A) ELECTRICAL CONTRACTOR SHALL PROVIDE A 5" SQUARE x 2 7/8" DEEP OUTLET BOX WITH SINGLE GANG RAISED RING. DEPTH AS REQUIRED. UNLESS OTHERWISE NOTED, RUN 1-1/4" FROM OUTLET BOX AND STUB INTO ACCESSIBLE ATTIC SPACE ABOVE T-BAR CEILING. PROVIDE AN INSULATING BUSHING, BRIDGEPORT HTWB-54 OR EQUAL, AT STUB.

(B) ELECTRICAL CONTRACTOR SHALL PROVIDE SPECIAL BACK BOX PER MFG.

(C) ELECTRICAL CONTRACTOR SHALL PROVIDE A 4-11/16" SQUARE x 2 1/8" DEEP OUTLET BOX WITH SINGLE GANG RAISED RING. DEPTH AS REQUIRED. UNLESS OTHERWISE NOTED, RUN 3/4" FROM OUTLET BOX AND STUB INTO ACCESSIBLE ATTIC SPACE ABOVE T-BAR CEILING. PROVIDE AN INSULATING BUSHING, BRIDGEPORT HTWB-52 OR EQUAL, AT STUB.



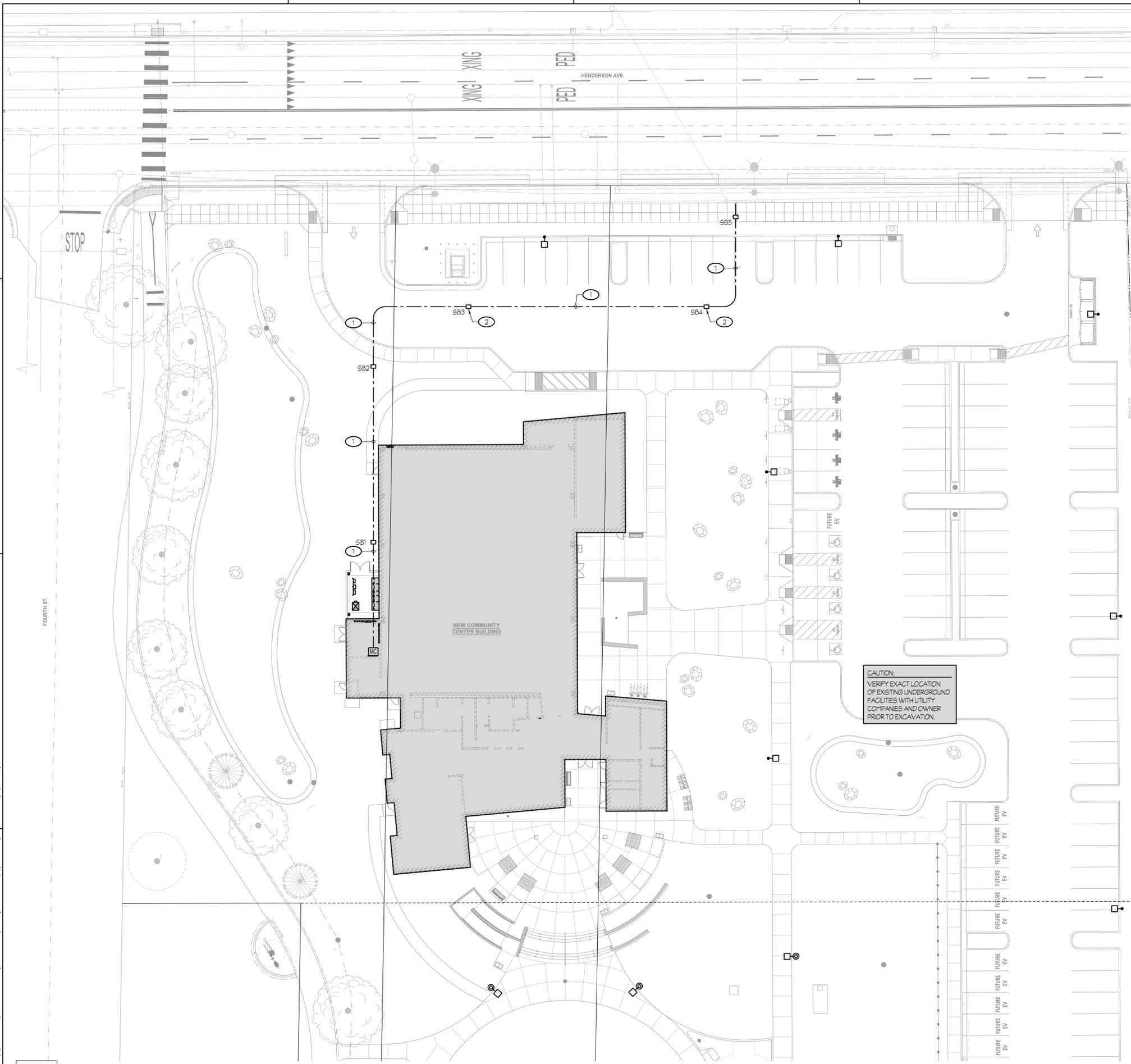
**1 WIRING DIAGRAM** NTS



**2 CABLE LINK IDENTIFIER LABELING FORMAT** NTS

P:\Working\2024\005\City of Porterville\Fourth Street Community Center & Park\TG101.dwg DATE: 01/15/24 BY: CSong DATE PLOTTED: 12/20/24 10:58 AM PLOT: 22-101-01

P:\Utilities\San Jose\City of Porterville\Fourth Street Community Center & Park\TS101.dwg DATE: SWECS 1/27/24 BY: Comp DATE PLOTTED: 12/20/24 JOB # 22-15-JJ



- NOTES (THIS SHEET ONLY):
- ① (THREE) NEW 2" CONDUITS, ONE FOR FIBER 12 STRAND SINGLE MODE CABLE, ONE FOR COPPER (A.T.&T OR SPECTRUM), ONE SPARE.
  - ② PULL BOXES, TRAFFIC RATED ON ASPHALT/CONCRETE.

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**FOURTH ST COMMUNITY CENTER AND PARK**  
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**ENLARGED SITE SIGNALS PLAN**

NO.	REVISION	DATE
5	ADDENDUM 6	12/20/24
△		
△		
△		
△		

PROJECT MANAGER  
 JJ  
 DRAWN BY  
 CM  
 CHECKED BY  
 JJ  
 DATE  
 2024.01.15  
 PROJECT NUMBER  
 2883-01-RC22  
 SHEET

**1 ENLARGED SITE SIGNALS PLAN**  
 SCALE: 1" = 20'-0"

Rose Sing Eastham & Associates  
 Electrical Consultants  
 131 S. Dunworth - (559) 733-2671  
 Visalia, California 93292-6705



PLAN CHECK REVISION 2

TS101

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**FOURTH ST COMMUNITY  
CENTER AND PARK**  
HENDERSON AVE., PORTERVILLE, CA 93257

OVERALL SIGNALS PLAN

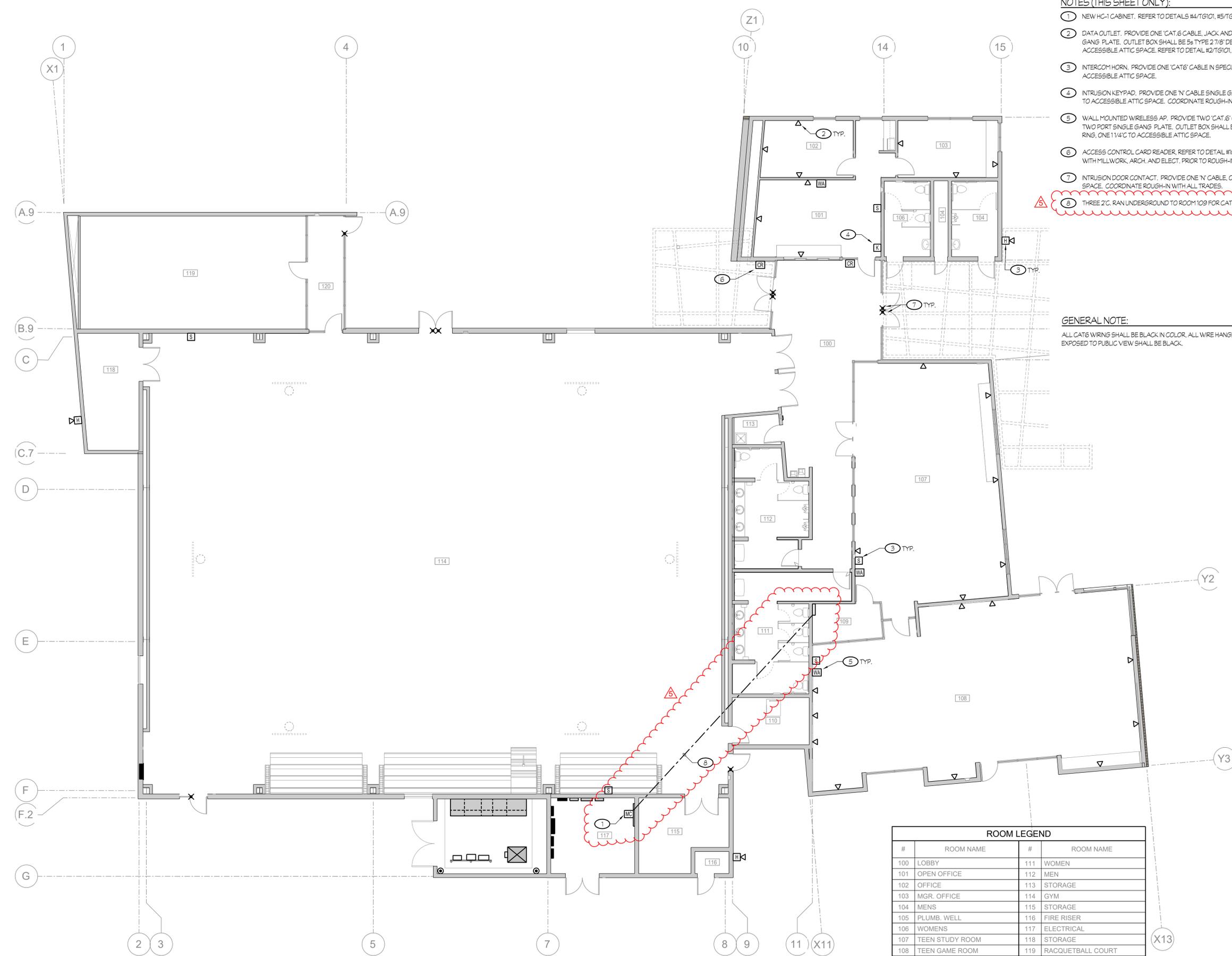
NOTES (THIS SHEET ONLY):

- 1 NEW HC-1 CABINET, REFER TO DETAILS #4/TG101, #5/TG101, #6/TG101, #7/TG101.
- 2 DATA OUTLET. PROVIDE ONE 'CAT6' CABLE, JACK AND BLANK IN TWO PORT SINGLE GANG PLATE. OUTLET BOX SHALL BE 5s TYPE 2 7/8" DEEP, 1G TRIM RING, ONE 1 1/4" TO ACCESSIBLE ATTIC SPACE. REFER TO DETAIL #2/TG101, DETAIL #3/TG101.
- 3 INTERCOM HORN. PROVIDE ONE 'CAT6' CABLE IN SPECIAL BACK BOX, ONE 3/4" TO ACCESSIBLE ATTIC SPACE.
- 4 INTRUSION KEYPAD. PROVIDE ONE 'N' CABLE SINGLE GANG BOX AND RING, ONE 3/4" TO ACCESSIBLE ATTIC SPACE. COORDINATE ROUGH-IN WITH ALL TRADES.
- 5 WALL MOUNTED WIRELESS AP. PROVIDE TWO 'CAT6' CABLES, JACK AND BLANK IN TWO PORT SINGLE GANG PLATE. OUTLET BOX SHALL BE 5s TYPE 2 7/8" DEEP, 1G TRIM RING, ONE 1 1/4" TO ACCESSIBLE ATTIC SPACE.
- 6 ACCESS CONTROL CARD READER. REFER TO DETAIL #10/TG101. COORDINATE OUTLET WITH MILLWORK, ARCH. AND ELECT. PRIOR TO ROUGH-IN.
- 7 INTRUSION DOOR CONTACT. PROVIDE ONE 'N' CABLE, ONE 3/4" TO ACCESSIBLE SPACE. COORDINATE ROUGH-IN WITH ALL TRADES.
- 8 THREE 2" C, RAN UNDERGROUND TO ROOM 109 FOR CAT6 CABLING

GENERAL NOTE:

ALL CAT6 WIRING SHALL BE BLACK IN COLOR, ALL WIRE HANGERS, OR CONDUIT EXPOSED TO PUBLIC VIEW SHALL BE BLACK.

ROOM LEGEND			
#	ROOM NAME	#	ROOM NAME
100	LOBBY	111	WOMEN
101	OPEN OFFICE	112	MEN
102	OFFICE	113	STORAGE
103	MGR. OFFICE	114	GYM
104	MENS	115	STORAGE
105	PLUMB. WELL	116	FIRE RISER
106	WOMENS	117	ELECTRICAL
107	TEEN STUDY ROOM	118	STORAGE
108	TEEN GAME ROOM	119	RACQUETBALL COURT
109	OFFICE/STORAGE	120	RACQUETBALL ENTRANCE
110	MECHANICAL		



**1 OVERALL SIGNALS PLAN**  
A-415 SCALE: 1/8" = 1'-0"



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PLAN CHECK REVISION 2

NO.	REVISION	DATE
5	ADDENDUM 6	12/20/24

PROJECT MANAGER  
JJ  
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CM  
CHECKED BY  
JJ  
DATE  
2024.01.15  
PROJECT NUMBER  
2883-01-RC22  
SHEET

T101

P:\working\105\City of Porterville\Fourth St Community Center & Park\T101.dwg DATE PLOTTED: 12/20/24 4:08 P. 22-175-JJ