ATTACHMENT A

PROJECT NAME: CITY OF SAN ANTONIO FIRE STATION NO. 21

DATE: 02/26/2026

This attachment shall be included in and considered part of the solicitation documents for the construction of the Fire Station #21 RFCSP 26-020 - Addendum I; consists of 2 pages and 27 pages of attachments.

GENERAL

1. Material Substitution Request for Pre-Engineered Metal Building Manufacturer.
    - Red Dot
2. Material Substitution Request for Interior Doors Manufacture.
    - Eliason – Eliason Style Craft – with Plastic Laminate to match specified product.
3. Approved Manufacturer of Metal Soffit Panels.
    - Bellara Steel Siding

BIDDER INQUIRY RESPONSES

4. See attached list of bidder questions.

SPECIFICATIONS

1. Replace Index sheet for DIVISION 26 – ELECTRICAL
2. Replace Section 012300 ALTERNATES
3. Replace Section 113116 KITCHEN AND LAUNDRY APPLIANCES
4. Section 264113 LIGHTING PROTECTION SYSTEMS.

DRAWINGS

Architecture

5. Sheet A9.03/5 Updated view
6. Sheet A9.09/8 Added alternative option drawings for Stainless steel sink unit.

Plumbing

7. Sheet P2.01 Revised location of lavatory and shower in EMS restroom.
8. Sheet P3.01 Revised riser to reflect fixture changes in EMS restroom.
9. Sheet P3.03 Revised riser to reflect fixture changes in EMS restroom.
10. Sheet P4.01 Revised specification for SK-3 in Plumbing Fixture Schedule.

Technology

11. Sheet T600 Revised special systems device rough-in locations for the USDD system based on their latest changes with owner feedback. Refer to USDD drawings for additional information.
12. Sheet T601 Replaced sheet with the latest design layout received for the owner's design vendor, US Digital Designs (USDD), for the Phoenix G2 System.
13. Sheet T602 Replaced sheet with the latest design layout received for the owner's design vendor, US Digital Designs (USDD), for the Phoenix G2 System.

END OF ATTACHMENT A

ATTACHMENT A - Questions

PROJECT NAME: CITY OF SAN ANTONIO FIRE STATION NO. 21

Question #1:

- "Please confirm whether the stone type and color have been defined for this project. If so, please identify the specified material and any manufacturer or basis-of-design to be used for pricing."

  Manufacturer: Jacobs Stone Products, San Saba, Texas, or prior approved alternative manufacturer and source.
  1. Variety: "Buff Lueders Honed"
  2. Geological Origin: Limestone.
  3. Color Range: Cream
  4. Size: Nominal 8" high by 24" length by 4" depth cut stone.

Question #2:

- "Please confirm whether a Lightning Protection System is required for this project. No specifications or details were identified in the drawings or project manual."

  See attached performance specs for Lightning Protection (Specification #4). The installer will provide shop drawings that will be reviewed as part of the submittal process.

Question #3:

- "A3.02 has a roller shade note of "ADD BLACK OUT ROLLER SHADES ON OFFICE STOREFRONTS (SF-9) AND CORRIDORS (SF-8) EXCEPT FOR EMS BAY." Specification 122413 is for manual roller shades with single rollers in SW2000 5% open. Please confirm if this is to be interpreted as offices and corridors to receive double roller shades with SW2000 and blackout fabrics and all other exterior windows receiving single shades with SW2000 fabric?"

  All shades to be single roll, for SF-8 and SF-9 blackout fabric SW Style 7100.

Question #4:

- Regarding the HVLS fans, we are pricing out fans provided by the manufacturer's listed in the specifications, although fan type may not match what is shown on the fan schedule, (BAF: We don't have any 96" 3-bladed fans in 480V so we'd need to quote our Powerfoil 5) may we use an alternate manufacturer? Skyblade has a 3 blade 96" fan (MiniProp3 Series), would that Manufacturer be acceptable?
  Greenheck is basis of design. 4 alternative manufacturers are listed in specifications section 23 34 00 Paragraph 2.3.A. Submitted fan shall be one of the listed acceptable manufacturers.
  Chris Vega, PE / Calculated Legacy.

Question #5:

- What about that updated Design I received from the Fire Alarm notification system USDD (US Digital Designs by Honeywell), he is the one that provided the plans to the owner sheet T601- T603.. In my emails with them, asking for their certified installer, he recommended someone CSD (George) to get installation quote from, but also asked for the owner's contact info to send the updated quote and design to. I'm not sure if I should give that to them.(isn't that their responsibility to get updated plans and distribute to everyone?) but I did ask for an updated quote and design, he sent it to me.. but shouldn't all the other GC's have this updated drawing too? There is an RFI here, somewhere, can you please help me word it?

  See attached Technology - Combs / Honeywell Drawings.

23 34 33	Air Curtains
23 35 21	Direct Capture Emergency Vehicle Exhaust Extraction System
23 36 00	Air Terminal Units
23 37 00	Air Outlets and Inlets
23 38 13	Commercial Kitchen Hoods
23 55 23	High-Intensity Gas-Fired Radiant Heaters
23 81 21	Split-System Air-Conditioners
23 81 27	Mini-Split-System Air-Conditioners
23 82 00	Convection Heating Units

DIVISION 26 - ELECTRICAL

26 05 00	General Electrical Requirements
26 05 19	Low-Voltage Electrical Power Conductors and Cables
26 05 26	Grounding and Bonding for Electrical Systems
26 05 29	Hangers and Supports for Electrical Systems
26 05 33	Raceway and Boxes for Electrical Systems
26 05 53	Identification for Electrical Systems
26 08 00	Commissioning of Electrical
26 09 23	Lighting Control Devices
26 24 16	Panelboards
26 27 26	Wiring Devices
26 28 19	Enclosed Switches
26 32 13	Natural Gas Engine Driven Electrical Generator
26 36 00	Automatic Transfer Switch
26 41 13	Lightning Protection Systems
26 51 10	Interior Lighting
26 56 00	Site Lighting
26 60 00	Arc Flash, Short Circuit and Protective Device Coordination Study

DIVISION 28 – ELECTRONIC SAFETY AND SECURITY

28 31 00	Fire Detection and Alarm

END OF SECTION

SECTION 012300 - ALTERNATES

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes administrative and procedural requirements for additive alternates.

1.2 DEFINITIONS

A. Alternate: An amount proposed by bidders and stated on the Bid Form for certain work defined in the bidding requirements that may be added to the base bid amount if Owner decides to accept the corresponding change in the products, materials, equipment, systems, or installation methods described in the Contract Documents.
   1. Alternates described in this Section are part of the Work only if enumerated in the Agreement.
   2. The cost for each alternate is the net addition to the Contract Sum to incorporate alternates into the Work. No other adjustments are made to the Contract Sum.

1.3 PROCEDURES

A. Coordination: Revise or adjust affected adjacent work as necessary to completely integrate work of the alternate into Project.
   1. Include as part of each alternate, miscellaneous devices, accessory objects, and similar items incidental to or required for a complete installation whether or not indicated as part of alternate.

B. Notification: Immediately following award of the Contract, notify each party involved, in writing, of the status of each alternate. Indicate if alternates have been accepted, rejected, or deferred for later consideration. Include a complete description of negotiated revisions to alternates.

C. Execute accepted alternates under the same conditions as other work of the Contract.

D. Schedule: A schedule of alternates is included at the end of this Section. Specification Sections referenced in schedule contain requirements for materials necessary to achieve the work described under each alternate.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 SCHEDULE OF ALTERNATES

A. ADDITIVE Alternate Bid Item No. 1: Provide and install motorized four-fold vehicle bay doors at the three fire apparatus bays facing Pleasanton Road.

Base bid: Provide and install motorized steel sectional overhead doors in these three openings.

B. ADDITIVE Alternate Bid Item No. 2: Provide and install suspended wood panel ceilings in the Day Room and Kitchen as shown on the drawings and specified in Section 095117 and with linear light fixtures. .

Base bid: Install suspended acoustical ceilings with lay-in light fixtures matching adjacent ceilings in these two rooms.

C. ADDITIVE Alternate Bid Item No. 3: tall Stainless steel double sink unit in the Kitchen as shown on the drawings A9.04 and A9.09 and specified in SECTION 113116 – KITCHEN AND LAUNDRY APPLIANCES

Base bid: Install specified kitchen cabinets and countertop as shown in A9.04.

END OF SECTION 012300

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REGISTERED ARCHITECT
DEBRA J. DOCKERY
11930
STATE OF TEXAS
2/26/2026

SECTION 113116 – KITCHEN AND LAUNDRY APPLIANCES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.9 SUMMARY

A. The following appliances are provided and installed by this contract:
   1. Range/oven
   2. Range hood
   3. Refrigerators with ice makers
   4. Washers
   5. Dryers
   6. Ice maker
   7. Garbage Disposal

B. Related Sections:
   1. Division 22 – Plumbing
   2. Division 23 - Mechanical
   3. Division 26 - Electrical

1.3 ACTION SUBMITTALS

A. Product Data: For each type of product indicated. Include the following:
   1. Manufacturer's model number.
   2. Accessories and components that will be included for Project.
   3. Clearance requirements for access and maintenance.
   4. Utility service connections for water, sewer, power, and fuel; include roughing-in dimensions.

1.4 INFORMATIONAL SUBMITTALS

A. Warranty: Samples of special warranty.

1.5 CLOSEOUT SUBMITTALS

A. Operation and Maintenance Data: In addition to items specified in Section 017823 "Operation and Maintenance Data," include the following:
   1. Product Schedule: For each appliance item, include the following:
      a. Designation indicated on Drawings.
      b. Manufacturer's name and model number.
      c. List of factory-authorized service agencies including addresses and telephone numbers.

1.6 QUALITY ASSURANCE

A. UL Certification: Provide electric and fuel-burning appliances and components that are evaluated by UL for fire, electric shock, and casualty hazards according to applicable safety standards, and that are UL certified for compliance and labeled for intended use.

B. Regulatory Requirements: Install appliances to comply with the following:
1. ASHRAE 15, "Safety Code for Mechanical Refrigeration."
2. NFPA 54, "National Fuel Gas Code."
3. NFPA 70, "National Electrical Code."

1.7 PROJECT CONDITIONS

A. Field Measurements: Verify actual dimensions of construction contiguous with appliance requirements.

1.8 COORDINATION

A. The rough-in service and the actual connection between appliances shall be furnished under plumbing, mechanical and electrical scope, as applicable. The actual hardware connections and required labor to connect appliances to rough-ins shall be the entire responsibility of the prospective sub-contractors

B. All connections shall be made in accordance with local codes, except where plans and specifications exceed code requirements.

B. Coordinate kitchen and laundry appliances installation with other work, including layout and installation of floor drains, electrical, gas, water supply, and waste water system components.

C. Coordinate locations and requirements of utility service connections.

D. Coordinate sizes, locations, and requirements of the following:
1. Appliances bases.
2. Floor depressions.
3. Floor areas with positive slopes to drains.
4. Floor sinks and drains serving appliances.
5. Wall penetrations for utility services.

1.9 WARRANTY

A. Refrigeration Compressor Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace compressors that fail in materials or workmanship within specified warranty period.
1. Failure includes, but is not limited to, inability to maintain set temperature.
2. Warranty Period: Five years from date of Substantial Completion.

PART 2 – PRODUCTS

2.1 MATERIAL

A General: All appliances shall be new and unused and of the quality specified. The material on the job shall be maintained in an undamaged condition.

2.2 FABRICATION

A. Welding: All welds of stainless steel shall be free of pits and flaws and ground smooth and uniform to the grain and finish of the original sheet.

B. Finishing: All exposed edges shall be deburred such that a rounded smooth edge is produced.

2.3 MISCELLANEOUS MATERIALS

A. Elastomeric Joint Sealant: ASTM C 920; silicone. Type S (single component), Grade NS (nonsag), Class 25, Use NT (nontraffic) related to exposure, and Use M, G, A, or O as applicable to joint substrates indicated.
1. Cylindrical Sealant Backing: ASTM C 1330, Type C, closed-cell polyethylene, in diameter greater than joint width.

2.4 PRODUCTS

A. RANGE/OVEN

Wolf Model GR606DG – 60” gas range with 6 burners, infrared dual griddle and 2 ovens. No substitutions.

- Size: 60” W x 28” D x 37” H.
- Electrical receptacle 3-prong grounding type.
- Electrical supply: 110/120 VAC. 50/60 Hz, 15 amp dedicated circuit.
- Natural Gas Supply – ¾” ID line
- Gas Inlet: ½” NPT female
- 30,000 Btu infrared double griddle
- Seamless, sealed black porcelain-coated burner pans
- Cast iron grates.
- Two standard racks; one full-extension ball bearing rack per oven.
- 30,000 Btu oven burner, 18,000 Btu oven broiler.
- Broiler pan and rack
- Stainless-steel charbroiler and griddle cover
- One halogen light per oven
- Spark ignition system to re-ignite flame automatically
- Brushed stainless steel controls
- Provide with 60” x 20” Gas Range Riser with Shelf Wolf #819084.
- Lifetime warranty on heating elements.

B. RANGE HOOD

CaptiveAire Model ND-2 exhaust only canopy hood.

- Length: 7’-0”
- Construction shall be type 430 stainless steel with a #3 or #4 polish where exposed. All seams, joints and penetrations of the hood enclosure to the lower outermost perimeter that directs and captures

grease-laden vapor and exhaust gases shall have a liquid-tight continuous external weld in accordance with NFPA 96.

- Hood shall be wall type with a minimum of four connections for hanger rods. Corner hanging angles have a 5/8" x 1-1/2" slot pre-punched at the factory, allowing hanging rods to be used for quick and safe installation.
- The hood shall be furnished with U.L. classified filters, supplied in size and quantity as required by ventilator.
- Exhaust duct collar to be 4" high with 1" flange.
- U.L. incandescent light fixtures and globes shall be installed and pre-wired to a junction box. The light fixtures shall be installed with a maximum of 4’0" spacing on center and allow up to a 100 watt standard light bulb.

- The hood shall have:

  A double wall insulated front to eliminate condensation and increase rigidity. The insulation shall have a flexural modulus of 475 EI, meet UL 181 requirements and be in accordance with NFPA 90A and 90B.

  An integral front baffle to direct grease laden vapors toward the exhaust filter bank.

  A built-in wiring chase provided for outlets and electrical controls on the hood face and shall not penetrate the capture area or require an external chaseway.

  Removable grease cup for easy cleaning.

- The hood shall be ETL Listed as "Exhaust Hood Without Exhaust Damper", ETL Sanitation Listed and built in accordance with NFPA 96. The hood shall be listed for 450°F cooking surfaces at 150 CFM/ft, 600°F cooking surfaces at 200 CFM/ft, and 700°F cooking surfaces at 250 CFM/ft. The hood shall be ETL Listed as "Exhaust Hood Without Exhaust Damper”
- Provide hood with finished end panels

C. REFRIGERATORS

General Electric GE 21.9 cu. ft., top freezer refrigerator, garage ready with ice maker. No substitutions.

- Capacity: 21.9 cu. ft.
- Size: 32-3/4” W x 66-3/8” H x 34.5” D
- Electronic 2 temperature controls
- Factory installed ice maker
- Automatic defrost
- Ceiling and side LED refrigerator and freezer lights
- Tempered glass shelf construction
- 2 humidity crisper bins
- Reversible door.
- Surface material – coated metal in smooth white color
- Back material – flush metal cover over mechanical parts
- Rated – 120 amps
- Electrical Requirements - 120V, 60 Hz, 15 amp
- UL listed
- Energy Consumption – 451 kWh

- Warranty – 1 year parts and labor, 7 years on the sealed system, 10 years on linear compressor
- Refrigerators shall have external filters added: Bluestone Appliance Model #FF9, medium capacity ice machine water filter (available at Home Depot), or equivalent.
- Refrigerators shall not have door water or ice dispensers.

D. WASHER

Speed Queen Washer model number TC5003WN top load washer, white finish. No substitutions.

- Size: 25-5/8" W x 42-3/4" H x 28" D
- Height with lid open" 42-3/4"
- Wash tub – stainless steel, Outer tub – porcelain. Exterior – durable 3-coat finish, white.
- ADA compliant
- Motor – two-speed, 1/2HP.
- 6 preset cycles, 4 water temperature options, 2 soil level selections
- Adjustable legs
- Electrical – voltage 110/120 volts, minimum circuit rating – 15 amps.

E. DRYER

Speed Queen Dryer model number DC5003WE electric dryer, white finish. No substitutions.

- Size: 26-7/8" W x 28" D x 42-3/4" H (-top of control panel)
- Dryer cylinder – galvanized. Exterior – durable 3-coat finish, white.
- ADA compliant
- Heat source – Electric 5350 W
- Motor – 1/3 HP
- Electrical requirement – 120/208 volt, 60 Hertz, 4-wire electrical supply.
- Reversible door.
- Interior light
- Upfront filter. Provide with lint filter guard.
- Preset cycles – 4. Temperature selections - 4 levels
- Multiple vent options

F. ICE MAKER

Manitowoc #IDTO500A on D-570 bin, air cooled ice maker, cube (dice) style, self-contained condenser. equivalent

- 30" W x 71.5" H x 34"D.
- Adjustable legs – 6" to 8".
- Warranty: 5 Year parts and labor on ice machine evaporator, 5 Year parts and 3 Year labor on ice machine compressor, 3 Year parts and labor on all other ice machine dispenser and bin components.
- Electrical – air cooled: 115v/60,single phase, 15 amps.
- Energy usage: 3,800 BTU per hour average.
- Potable water pressure: Minimum – 20 psi, Maximum – 80 psi.
- Stainless steel braided water hose kit as required.
- Ice Production: 24 hours – 520 lb @ 70 deg air and 50 deg water, 400 lbs @ 90 deg air and 70 deg water.

- 532 lb bin storage capacity with poly finish, bin size – 30” W x 44” H x 34” D (not including 6” H legs).
- Unit shall have auto-alert indicator lights, and front removable air filter, stainless finish.
- Provide with water filtration system – pre-filter dirt and rust sediment reducer, 2 stage, 10-micron particle and carbon scale filter, 14,000 gallon capacity.

G. GARBAGE DISPOSAL

General Electric Model #GE GFC1065W, 1 HP continuous feed garbage disposal.

- Capacity – 32 oz hopper
- Grinding speed – 2800 RPMS
- Stainless steel grinding ring, pre-cutter material and turntable material
- Electrical – 121V, 60Hz, 7.0A
- Overload protector with manual reset.
- Removable splash guard
- 10 years parts warranty.

F. DOUBLE-COMPARTMENT SINK

Pro-Fab – Stainless Steel Sink

- Size: 7’-0” W x 26” D x 36” H
- 20” x 20” x10” sink bowls
- Right and Left drainboards
- 6” high stainless-steel backsplash.
- Marine Edge
- Stainless Steel Type 304 construction
- NSF listed
- Cutouts for Fixtures
- Stainless steel legs and sockets with adjustable bullet feet
- Enclosed cabinets with doors below

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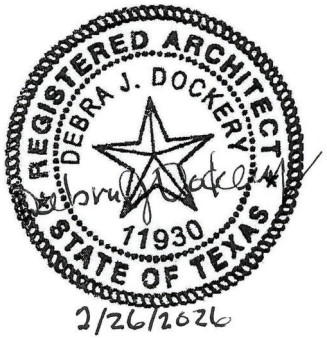


PART 3 -EXECUTION

3.1 INSTALLATION

A. Install appliances level and plumb, according to manufacturer's written instructions.
1. Connect appliances to utilities.

B. Complete appliance assembly where field assembly is required.
1. Provide closed butt and contact joints that do not require a filler.
2. Grind field welds on stainless-steel appliances until smooth and polish to match adjacent finish.
3. Cut neatly around obstructions to provide sanitary conditions. Where gaps occur between appliance, apply silicon construction sealant, or stainless steel trim molding of proper shape with concealed attachment. Use epoxy cement and/or "zee" clips wherever possible to secure trim.

C. Install appliances with access and maintenance clearances that comply with manufacturer's written installation instructions and with requirements of authorities having jurisdiction.

3.2 CLEANING AND PROTECTING

A. After completing installation of appliances and prior to demonstration and final inspection, thoroughly clean and polish all appliances, inside and outside, prior ready for Owner's use.

B. Touch-up damage to painted finishes.

3.3 APPLIANCE START-UP AND DEMONSTRATION

A. Prior to final inspection, provide an authorized service agent to carefully test, adjust and regulate all appliances in accordance with the manufacturer's instructions and certify in writing to the Owner that the installation, adjustments and performance are in full compliance.

B. Provide Owner with a list of appliances, appliances representatives and their telephone numbers to allow the Owner to schedule demonstrations on the appliances at their own convenience.

C. Contractor shall coordinate, schedule and be present at an appliances operating demonstration and personnel training at the completion of the project.

D. Contractor is to issue all appliances keys with transmittal to the Owner at the time of appliances demonstrations.

END OF SECTION 113116

SECTION 264113
LIGHTNING PROTECTION SYSTEMS

PART 1 - GENERAL

1.1 WORK INCLUDED

A. System design.

B. Air terminals, interconnecting conductors, and other system components and accessories.

C. Grounding and bonding for lightning protection.

D. System inspection and certification.

1.2 RELATED WORK

A. This Section shall be used in conjunction with the following other specifications and related Contract Documents to establish the total requirements for lightning protection systems.
   1. Section 26 05 00 - Electrical Requirements
   2. Section 26 05 33 - Raceways and Boxes for Electrical Systems
   3. Section 26 05 26 - Grounding and Bonding for Electrical Systems

B. In the event of conflict involving requirements of lightning protection systems between this Section and any other Sections, the provisions of this Section shall govern.

1.3 APPLICABLE CODES AND STANDARDS

A. The materials and installation shall conform to the minimum requirements and latest revisions of the following codes, standards and regulations wherein they apply:
   1. NFPA 70 - National Electrical Code
   2. UL 96 - Lightning Protection Components
   3. UL 96A – Installation Requirements for Lightning Protection Systems
   4. NFPA 780 - Lightning Protection Systems
   5. LPI 175 - Standard of Practice for the Design - Installation - Inspection of Lightning Protection Systems

1.4 SYSTEM DESCRIPTION

A. Lightning Protection System: UL 96A Master Labeled system consisting of air terminals on roofs, roof mounted mechanical equipment, stacks, bonding of structure and other metal objects; grounding electrodes; and interconnecting conductors. Lightning protection systems shall be incorporated into the building system by the lightning protection contractor as required for a complete master labeled system.

1.5 QUALIFICATIONS

A. Manufacturer: Company specializing in lightning protection equipment with minimum three years documented experience and member of the Lightning Protection Institute.

B. Installer: The Contractor for the work covered by this specification shall be recognized as being regularly engaged in the design and installation of lightning protection systems. The Contractor must have minimum three years documented experience and member of the Lightning Protection Institute (LPI). Installer shall be a certified LPI master installer of lightning protection systems. Acceptable Installers:
1. Bonded Lightning Protection Systems, LTD
2. Thompson Lightning Protection, Inc.

1.6 COORDINATION

A. Coordinate the work of this Section with concrete, roofing and exterior and interior finish installations.

B. Coordinate all provisions for down conductors and system connections with all trades.

C. Coordinate air terminal installation with roof structure, with air terminals attached to the back side of roof parapets to avoid penetration of parapet roofing.

1.7 SUBMITTALS

A. Provide submittals for the following information in addition to and in accordance with Section 26 05 00 - Electrical Requirements and Division 01 for submittal requirement.
1. Shop drawings showing layout of air terminals, grounding electrodes, and bonding connections to structure and other metal objects. Include terminal, electrode, and conductor sizes, and connection and termination details.
2. Shop drawings shall include locations of conductors, roof penetrations, floor penetrations, etc., and their compatibility with provisions made during the construction. Once the contract has been established the Contractor shall make a review of provisions being made for the system installation and comment, in writing, with changes or compliance within two weeks of finalizing the contract. Contractor shall coordinate locations of conductors in walls and all penetrations with the appropriate trades: Failure to coordinate these requirements shall not relieve lightning protection Contractor from properly completing its work. This Contractor shall employ the proper trades to provide the chases in walls and roof and floor penetrations required to install the conductors if not coordinated before the floors, walls and roof are installed.
3. Product data showing dimensions and materials of each component and include indication of listing in accordance with UL 96.
4. As Built Record Drawings: The Contractor shall maintain a master set of As Built Record Drawings that shows changes and any other deviations from the Base Drawings in accordance with Section 26 05 00.

1.8 MASTER LABEL

A. The system design shall equal to or exceed the requirement of UL 96A for a Master “C” Label. Upon completion, the lightning protection systems shall be inspected by a representative of Underwriters Laboratories, Inc. The lightning protection systems must pass UL inspection and wear UL label.

1.9 WARRANTY

A. Provide a warranty for material and installation per Section 26 05 00 - Electrical Requirements, unless a longer warranty period is required in specific product specifications.

PART 2 - PRODUCTS

2.1 GENERAL

A. The system provided under this specification shall be the standard product of a manufacturer regularly engaged in the production of lightning protection systems and shall be the manufacturer’s latest approved design.

B. Materials used in connection of the installation of the lightning protection system shall be proved for lightning protection systems by UL. No combination of materials shall be used that form an electrolytic couple of such nature that corrosion is accelerated in the presence of moisture. Where unusual conditions exist which would cause corrosion of conductors, conductors with protective coatings or oversized conductors shall be used.

C. Where a mechanical hazard is involved, conductor size shall be increased to compensate therefore, or suitable protection shall be provided. The conductors may be protected by covering them with molding or tubing made of nonmetallic material.

D. Aluminum materials may not be used except on roofs that utilize aluminum roofing components. When aluminum materials are used, provide all materials of aluminum composition to ensure compatibility, except down conductors and grounding. Provide copper down conductors with bimetal transition at the roof assembly rated for the application.

2.2 CONDUCTORS

A. All conductors shall be stranded copper and of the grade ordinarily required for commercial electrical work generally designated as being 98 percent conductive when annealed. Aluminum conductors may only be used on roofs that are built of aluminum roofing components. Conductor minimum size shall be in compliance with NFPA 780.

2.3 AIR TERMINALS

A. Air terminals shall be copper or copper alloy per UL 96. A copper or copper alloy air terminal intended for use on a chimney shall have a hot-dipped lead coating or equivalent. Class II air

terminal shall be of solid construction. Air terminal minimum diameter shall be in compliance with NFPA 780.

2.4 GROUND ROD

A. Ground rod shall be copper-clad steel, 3/4-inch diameter by 10 feet in length.

2.5 CONNECTIONS

A. Connector fittings shall be corer or copper alloy per UL 96 and compatible with material type used for air terminals and conductors.

B. Conductor splices and connectors shall be compression fittings that are installed with hydraulically operated tools, or exothermic welds, approved for use with the class type.

C. All below ground and concealed connections shall be made with exothermic welded connections.

2.6 ROOF PENETRATIONS

A. Roof penetrations shall be accomplished with through-roof fittings specially designed for this purpose. Through-roof fittings shall utilize solid rods with appropriate hardware. Fittings shall incorporate a positive means for sealing around the rod.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Verify that surfaces are ready to receive work.

B. Verify that field measurements are as shown on the shop drawings.

C. Beginning of installation means installer accepts existing conditions.

3.2 PROTECTION OF SURROUNDING ELEMENTS

A. Protect elements surrounding work of this Section from damage or disfiguration.

3.3 CONDUCTORS

A. Install in accordance with manufacturer's instructions. Conceal down conductors. Concealed down conductors shall be installed in continuous insulating PVC raceways. Metallic raceways shall not be used.

B. PVC conduit shall not be installed in plenums. If PVC conduit has to be installed in plenum space, the PVC conduit shall have fire rated walls installed creating a chase space for the conduit.

C. The Contractor shall bond each down conductor to the ground rod (Cad-Weld or equivalent) which is bonded to the counterpoise conductors creating a common ground.

D. No bend of a conductor shall form an angle beyond 90 degrees nor shall have a bend radius less than 8 inches per NFPA 780.

3.4 AIR TERMINALS

A. Air terminal height and support shall be in compliance with the requirement of NFPA 780.

B. Air terminals shall not be mounted such they have to be moved to perform maintenance on the equipment they protect.

3.5 GROUND RING ELECTRODE

A. A ground ring electrode encircling the building or structure shall be installed. Lightning protection systems down conductors shall be connected to the ground ring electrode.

B. Interconnect lightning protection ground ring electrode with building ground electrode system.

3.6 ROOF CONNECTIONS

A. Make direct connections to lightning protection system with copper conductor for all roof mounted equipment, enclosures, mast, fan stacks and all metallic objects alike. Provide bonding jumpers across all equipment mounting isolators and ductwork isolators to provide a complete ground path.

B. All antennas shall be grounded.

3.7 ROOF ATTACHMENT AND PENETRATIONS

A. Roof penetration. Contractor shall inform Owner's representative, in advance, of any required roof penetrations and shall obtain approval. Wherever the system penetrates the roof, approved through-roof fittings or sleeves shall be furnished by the lightning protection contractor and installed by the roofing contractor. All patching masonry and structural work shall be furnished and installed by the general contractor.

B. All attachments to roofs must be in strict accordance with the roof manufacturer’s recommendations. The lightning protection contractor shall submit details of all roof attachment to the appropriate roof manufacturer for approval prior to installation. Once the lightning protection system installation is complete, the lightning protection contractor shall engage the appropriate roof manufacturer to inspect all roof attachments on that manufacturer’s roof. Subsequent to the inspection, the roof manufacturer shall furnish the Owner with a letter indicating that all lightning protection systems component roof attachment and penetration are satisfactory and such attachments and penetrations will not in any way to void or reduce the warranty on roof. Any fees for services or inspections provided by the roof manufacturer to accomplish the above related requirements shall be at the expense of the lightning protection contractor.

3.8 COVER-UP INSPECTION

A. Prior to cover-up of concealed components and connections, notify the Owner so that a cover-up inspection can be performed. Correct any deficiencies prior to concealment of components and connections.

3.9 INSPECTION AND MASTER LABEL

A. Upon completion, the lightning protection systems shall be inspected by the representative of the Owner.

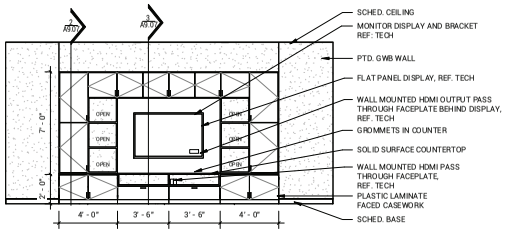
B. Obtain the services of Underwriters Laboratories, Inc. to provide inspection and certification of the lightning protection systems. If the system does not pass UL inspection, the Contractor must make corrections to the system in order to pass inspection. Contractor shall furnish the Owner with appropriate approval certificate.

C. Obtain UL Master Label and attach to building at a location as directed by Owner.

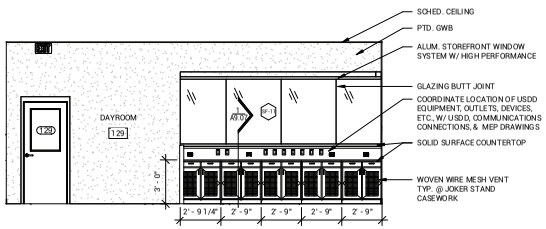
3.10 CONFLICTS

A. In the event a conflict exists between this specification and any of the referenced standards, the requirements of referenced standards govern. Necessary variances or corrections shall be made at the expense of the lightning protection contractor in order to obtain UL Master Label.

END OF SECTION



1 INTERIOR ELEVATION-DAYROOM
SCALE: 1/4" = 1'-0"



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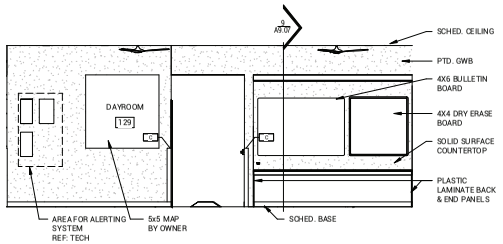

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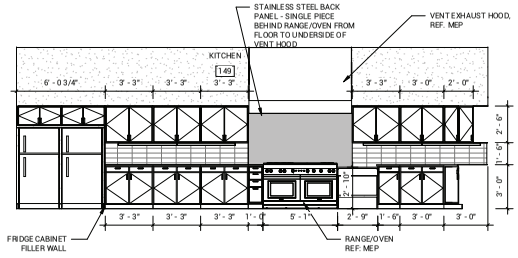

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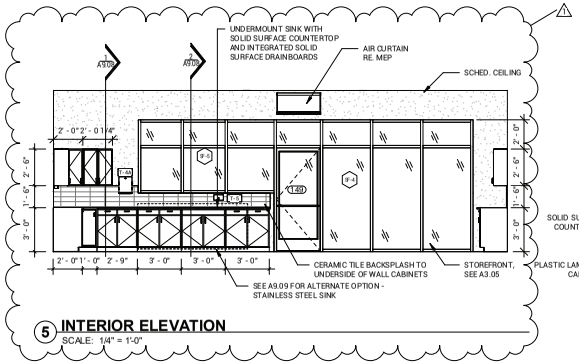

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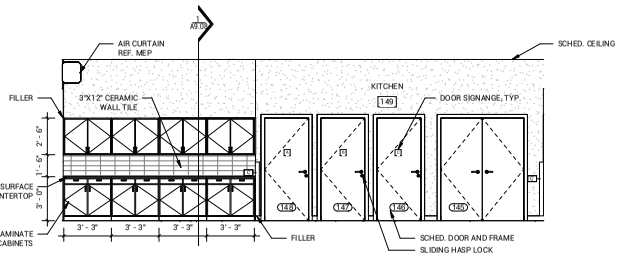

6 INTERIOR ELEVATION
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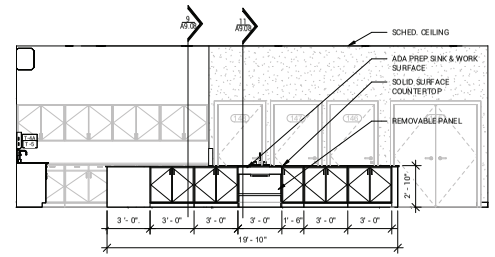

7 INTERIOR ELEVATION
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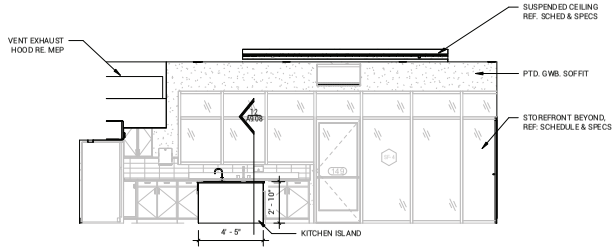
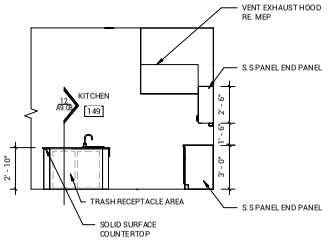


8 INTERIOR ELEVATION
SCALE: 1/4" = 1'-0"



9 INTERIOR ELEVATION
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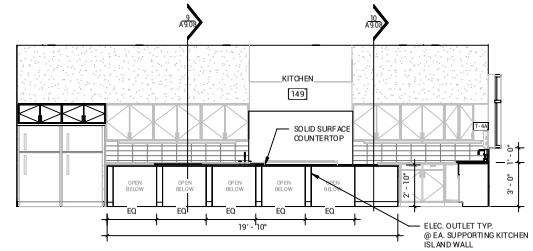

10 INTERIOR ELEVATION
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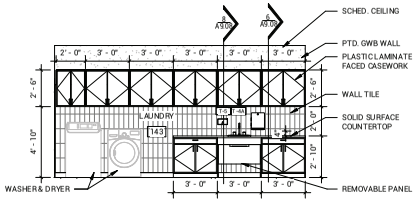
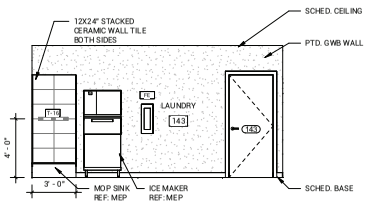


11 INTERIOR ELEVATION- LAUNDRY
SCALE: 1/4" = 1'-0"



12 INTERIOR ELEVATION
SCALE: 1/4" = 1'-0"

RESTROOM ACCESSORIES SCHEDULE

TAG	DESCRIPTION
T-1	36" L GRAB BAR
T-2	42" L GRAB BAR
T-3A	TOILET TISSUE DISPENSER RECESSED FOR METAL STUD WALLS
T-3B	TOILET TISSUE DISPENSER FOR SURFACE MOUNTED MASONRY WALLS
T-4A	PAPER TOWEL DISPENSER RECESSED FOR METAL STUD WALLS
T-4B	PAPER TOWEL DISPENSER FOR SURFACE MOUNTED MASONRY WALLS
T-5	LIQUID SOAP DISPENSER
T-6	24"x48" MIRROR UNIT
T-7A	STAINLESS STEEL SHELF 16"Lx5"D
T-7B	STAINLESS STEEL SHELF 14"Lx5"D
T-8	ROBE HOOKS
T-9	TOWEL BAR 24"L
T-11	SHOWER CURTAIN AND HOOKS
T-12	SHOWER CURTAIN ROD, 60"L
T-13	PREFABRICATED SHOWER NICHE - SEE SPEC. SECTION 093000
T-14	FREESTANDING DRESSING ROOM BENCH, 12"x36"L
T-15	WALL STORAGE CABINET, 8"Dx16"Hx16"W
T-16	MOP HOLDER, 36"L

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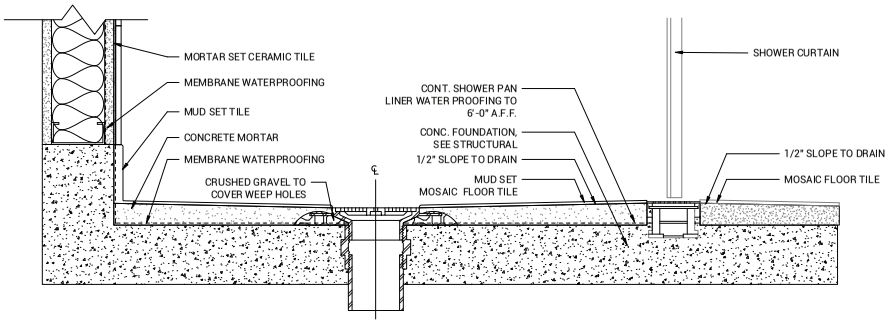
CITY OF SAN ANTONIO
FIRE STATION #21 REPLACEMENT
1123 PLEASANTON ROAD
SAN ANTONIO, TX 78214

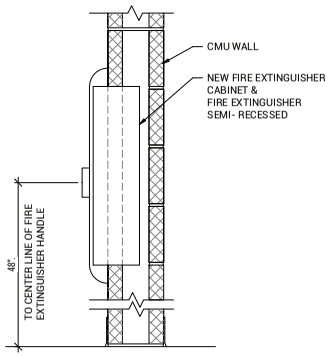
REVISIONS
1 ADDENDUM 1 - 02/26/26

PROJECT NO. 24-05
PHASE 100% CONSTRUCTION DOCUMENTS
DATE OCTOBER 2025
DESCRIPTION INTERIOR ELEVATIONS

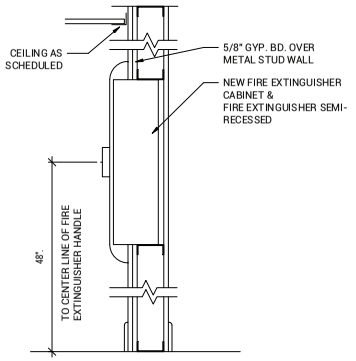
A9.04



1 SHOWER FLOOR DETAIL
SCALE: 3" = 1'-0"



2 FIRE EXTINGUISHER AT CMU
SCALE: 1 1/2" = 1'-0"



3 FIRE EXTINGUISHER AT GYP
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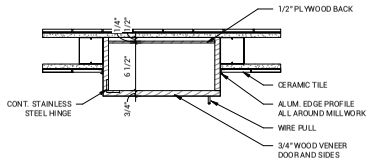
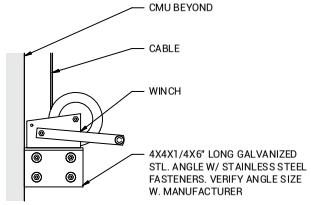
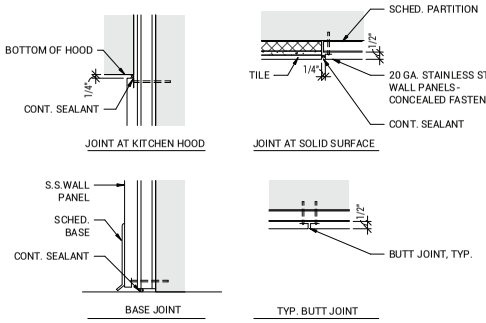


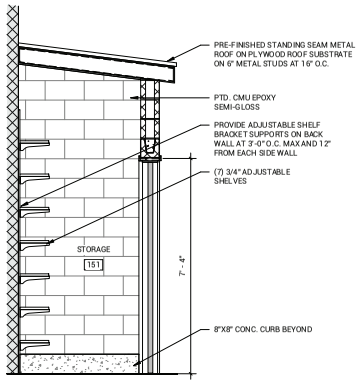
4 RR CABINET RECESSED
SCALE: 1 1/2" = 1'-0"



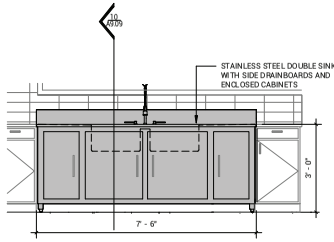
5 SALVAGE CABLE WENCH
SCALE: 3" = 1'-0"



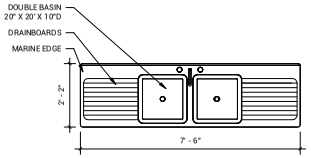
6 STAINLESS STEEL PANEL JOINTS
SCALE: 3" = 1'-0"



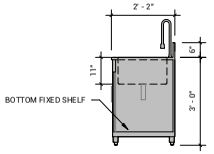
7 SHELVING AT EMS STORAGE & FIRE BAY
SCALE: 1/2" = 1'-0"



8 ALTERNATE - SINK UNIT - ELEVATION
SCALE: 1/2" = 1'-0"



9 ALTERNATE - SINK UNIT - PLAN VIEW
SCALE: 1/2" = 1'-0"



10 ALTERNATE - SINK UNIT - SECTION
SCALE: 1/2" = 1'-0"

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REGISTERED ARCHITECT
71930
STATE OF TEXAS
10/17/2025

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REVISIONS
ADDENDUM 1 - 02/26/26

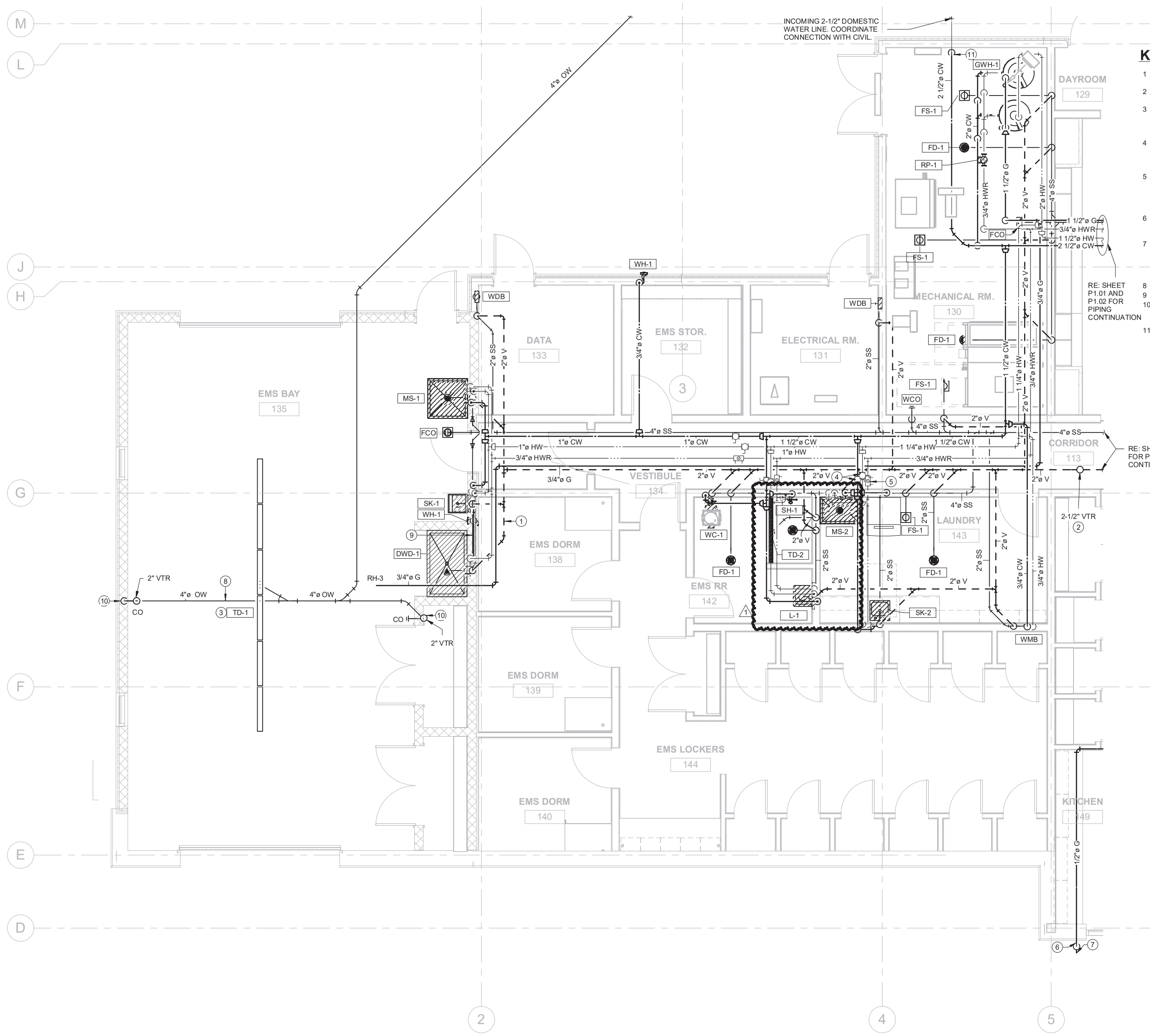
PROJECT NO.
24-05

PHASE
100% CONSTRUCTION DOCUMENTS

DATE
OCTOBER 2025

DESCRIPTION
MILLWORK AND INTERIOR DETAILS

A9.09



1 ENLARGED PLAN - EMS / MECHANICAL ROOM

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

KEYED NOTES

(APPLIES TO THIS SHEET ONLY)

1. VENT PIPING ROUTED OVERHEAD IN CEILING SPACE. COORDINATE WITH ALL OTHER TRADES.
2. VENT THRU ROOF. COORDINATE EXACT LOCATION WITH ALL OTHER TRADES.
3. INSTALL TRENCH DRAINS AT THIS LOCATION. COORDINATE EXACT LOCATION WITH STRUCTURAL DRAWINGS. TRENCH DRAIN SHALL COME IN 24" LONG SECTIONS, CONNECTED END TO END AND SLOPE TO A SINGLE POINT OF DISCHARGE.
4. ISOLATION VALVE(S) ON DOMESTIC WATER SUPPLY LINE(S). PROVIDE A LOCKING ACCESS PANEL WHEN VALVE(S) ARE LOCATED IN WALL. PROVIDE UNOBSTRUCTED ACCESS TO VALVE(S) WHEN IN THE CEILING BY ACCESS PANEL OR LABELED CEILING TILE.
5. CIRCUIT SETTER AND CHECK VALVE TYPICAL ON HOT WATER RECIRCULATION BRANCHES. PROVIDE A LOCKING ACCESS PANEL WHEN VALVE(S) ARE LOCATED IN WALL. PROVIDE UNOBSTRUCTED ACCESS TO VALVE(S) WHEN IN THE CEILING BY ACCESS PANEL OR LABELED CEILING TILE. CIRCUIT SETTER SHALL BE SET TO 0.25 GPM. (TYP.)
6. GAS PENETRATING EXTERIOR WALL AT THIS APPROXIMATE LOCATION. FIELD VERIFY EXACT LOCATION WITH STRUCTURE AND ARCHITECTURAL FEATURES.
7. ROUTE GAS PIPING TIGHT TO STRUCTURE AND DOWN ALONG COLUMN. FIELD COORDINATE EXACT PIPE DROP LOCATION WITH FIRE CHIEF. PROVIDE SHUTOFF VALVE IN OUTDOOR RATED LOCKABLE VALVE BOX EQUAL TO ACUDOR MI ARVB WITH FLUSH HANDLE LATCH. PROVIDE TEMPORARY CAP ON GAS STUB OUT.
8. 4" COMBINATION WASTE AND VENT PIPE.
9. ROUTE CW,HW, AND HWR IN WALL CAVITY TO PLUMBING FIXTURE.
10. ROUTE SANITARY VENT PIPE UP IN WALL. PROVIDE CLEANOUT IN VERTICAL 2'-0" A.F.F. PROVIDE SLEEVE IN STRUCTURE TO ACCOMMODATE SANITARY AND VENT PIPING.
11. PROVIDE ISOLATION VALVE IN CW RISER.

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PROJECT # 24006

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REVISIONS

1 Addendum 01 2026/02/27

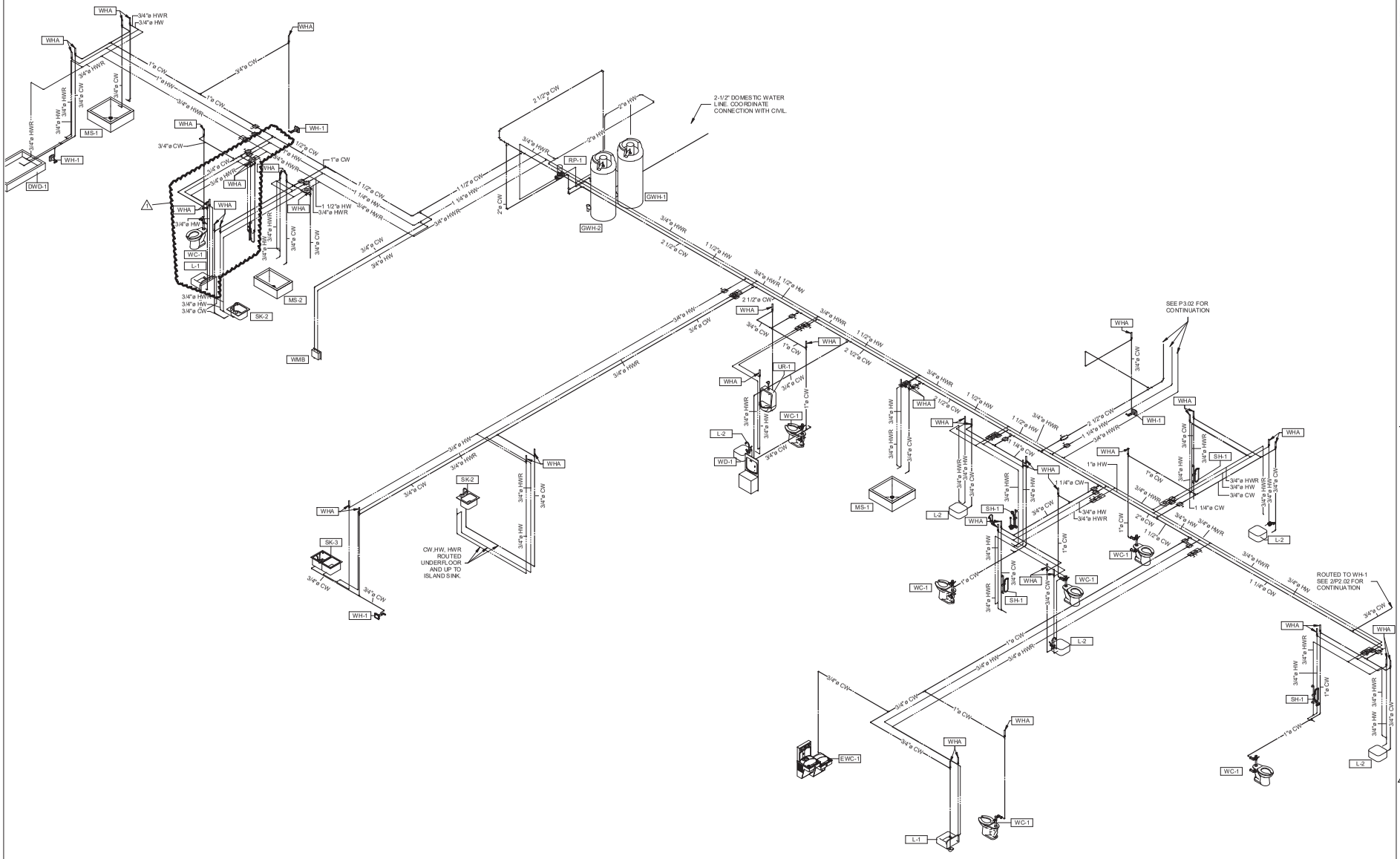
PROJECT NO. 24-05

PHASE 100% CONSTRUCTION DOCUMENTS

DATE OCTOBER 2025

DESCRIPTION ENLARGED PLUMBING FLOOR PLAN

P2.01



1 PLUMBING RISER - DOMESTIC WATER AND GAS - EMS BAY / EMS DORMS / DORMS

SCALE:

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LICENSED PROFESSIONAL ENGINEER
10/24/2025

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TBPE F-24468

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78214

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1 Addendum 01 2026/02/27

PROJECT NO. 24-05

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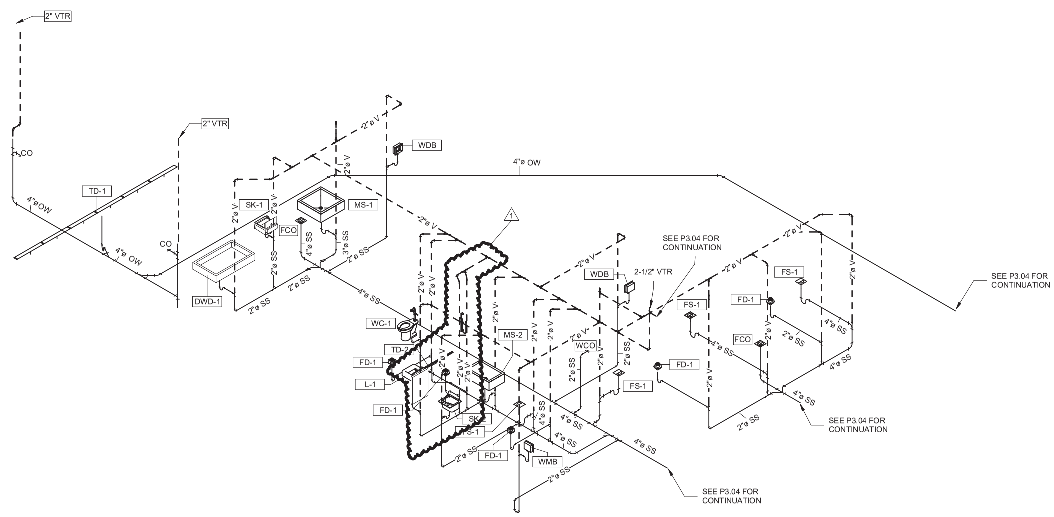
DATE OCTOBER 2025

DESCRIPTION PLUMBING RISER DIAGRAM

P3.01



1 PLUMBING RISER - SANITARY AND VENT - EMS BAY / EMS DORMS

SCALE:

STATE OF TEXAS
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CITY OF SAN ANTONIO FIRE STATION #21 REPLACEMENT

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REVISIONS

1 Addendum 01 2026/02/27

PROJECT NO. 24-05

PHASE 100% CONSTRUCTION DOCUMENTS

DATE OCTOBER 2025

DESCRIPTION PLUMBING RISER DIAGRAM

P3.03

PLUMBING FIXTURE SCHEDULE

MARK	DESCRIPTION	FLOW RATE	DRAIN	VENT	TRAP	HOT	COLD	NOTES
WC-1	WATER CLOSET ADULT ADA (FLOOR MOUNT) ♿	1.28 GPF	4"	2"	INTEGRAL	N/A	1"	AMERICAN STANDARD #3043.001, 'MADERA FLOWISE RIGHT HEIGHT ELONGATED', 16-1/2" HEIGHT TOILET, VITREOUS CHINA, FLOOR MOUNTED, ELONGATED BOWL AMERICAN STANDARD #5901.110SS.020,'COMMERCIAL', HEAVY DUTY TOILET SEAT SLOAN ROYAL #111, POLISHED CHROME FINISH, EXPOSED MANUAL FLUSH VALVE FOR TOP SPUD TOILET PROVIDE FLOOR FLANGE, (SAME MATERIAL AS THE CONNECTING PIPE DRAIN), WITH ALL BRASS BOLTS AND RUBBER GASKET
WC-2	WATER CLOSET (FLOOR MOUNT)	1.28 GPF	4"	2"	INTEGRAL	N/A	1"	AMERICAN STANDARD #3043.001, 'MADERA FLOWISE RIGHT HEIGHT ELONGATED', 16-1/2" HEIGHT TOILET, VITREOUS CHINA, FLOOR MOUNTED, ELONGATED BOWL AMERICAN STANDARD #5901.110SS.020,'COMMERCIAL', HEAVY DUTY TOILET SEAT SLOAN ROYAL #111, POLISHED CHROME FINISH, EXPOSED MANUAL FLUSH VALVE FOR TOP SPUD TOILET PROVIDE FLOOR FLANGE, (SAME MATERIAL AS THE CONNECTING PIPE DRAIN), WITH ALL BRASS BOLTS AND RUBBER GASKET
UR-1	URINAL (ADA) ♿	0.5 GFP	2"	1-1/2"	INTEGRAL	N/A	3/4"	AMERICAN STANDARD #6590.001EC, 'WASHBROOK FLOWISE', URINAL, WHITE VITREOUS CHINA, WALL HUNG SLOAN ROYAL #186 MANUAL FLUSH VALVE FOR TOP SPUD URINAL
L-1	LAVATORY (WALL MOUNT) ADA ♿	0.5 GPM	2"	2"	2"	3/4"	3/4"	AMERICAN STANDARD #0356.015, 'LUCERNE' BASIN, WHITE FINISH, 8" CENTERS AMERICAN STANDARD #6500.175, 'MONTERREY', TWO HANDLE FAUCET MCGUIRE #155WC OFFSET OPEN GRID DRAIN MCGUIRE #LFBV170, POLISHED CHROME FAUCET SUPPLIES MCGUIRE #8902CB, P-TRAP MCGUIRE 'PROWRAP' #PW2000WC SANITARY COVERING JR SMITH #0700, FLOOR MOUNTED LAVATORY CARRIER. PROVIDE TMV-1 ON HOT WATER SUPPLY
L-2	LAVATORY ADA ♿	0.5 GPM	2"	2"	2"	3/4"	3/4"	SINK SPECIFIED BY ARCHITECT AMERICAN STANDARD 6500.175, DECK MOUNTED 3 HOLES 8" FAUCET HOLES ON CENTER PROVIDE TMV-1 ON HOT WATER SUPPLY MCGUIRE #155WC OFFSET OPEN GRID DRAIN MCGUIRE #LFBV170, POLISHED CHROME FAUCET SUPPLIES MCGUIRE #8902CB, P-TRAP MCGUIRE 'PROWRAP' #PW2000WC SANITARY COVERING PROVIDE TMV-1 ON HOT WATER SUPPLY
SH-1	SHOWER (VALVE & DRAIN)	2.5 GPM	2"	1-1/2"	2"	3/4"	3/4"	CHICAGO FAUCETS #151-ACP, PRESSURE BALANCING SHOWER SYSTEM WITH SHOWER HEAD, HAND SPRAY WITH 60" STAINLESS STEEL HOSE, AND DIVERTER. 24" SPRAY ADJUSTABLE WALL BAR. JR SMITH #2005 ROUND SHOWER DRAIN. PROVIDE P-TRAP WITH MECHANICAL TRAP SEAL PROVIDE TMV-1 ON HOT WATER SUPPLY.
SH-2	SHOWER (VALVE & DRAIN)	2.5 GPM	2"	1-1/2"	2"	3/4"	3/4"	AMERICAN STANDARD RAIN MODERN 10" 2.5 GOM RAIN SHOWERHEAD. CHICAGO FAUCETS #151-ACP, PRESSURE BALANCING SHOWER SYSTEM WITH SHOWER HEAD, HAND SPRAY WITH 60" STAINLESS STEEL HOSE, AND DIVERTER. 24" SPRAY ADJUSTABLE WALL BAR. JR SMITH #2005 ROUND SHOWER DRAIN. PROVIDE P-TRAP WITH MECHANICAL TRAP SEAL PROVIDE TMV-1 ON HOT WATER SUPPLY.
SK-1	SINK (COUNTER MOUNT) ADA ♿	1.0 GPM	2"	1-1/2"	1-1/2"	3/4"	3/4"	ADVANCED TABCO #7-PS-20, 304 STAINLESS STEEL WALL MOUNTED SINK. CHICAGO FAUCET #895-317E73-RGD2AB, DECK MOUNTED MANUAL SINK FAUCET, 4" CENTERS GOOSENECK SPOUT. LEONARD #270-LF-BRKT, POINT OF USE THERMOSTATIC MIXING VALVE, INTEGRAL CHECK AND SCREEN PREVENTS CROSS-FLOW AND CONTAMINATION, MINIMUM FLOW 0.25 GPM, 'BRKT' MOUNTING BRACKET. MCGUIRE #8912CB, P-TRAP
SK-2	SINK (COUNTER MOUNT) ADA ♿	2.2 GPM	2"	1-1/2"	2"	3/4"	3/4"	ELKAY #LRAD222255,'LUSTERSTONE', STAINLESS STEEL 22"X22"X5-1/2" SINGLE COMPARTMENT SINK. T&S BRASS #B-1141, DECK MOUNTED, SWIVEL GOOSENECK, 11-3/8" HEIGHT 4" WRIST HANDLES, 4'SIDESPRAY LEONARD #270-LF-BRKT, POINT OF USE THERMOSTATIC MIXING VALVE, INTEGRAL CHECK AND SCREEN PREVENTS CROSS-FLOW AND CONTAMINATION, MINIMUM FLOW 0.25 GPM, 'BRKT' MOUNTING BRACKET. MCGUIRE #8912CB, P-TRAP
SK-3	SINK	1.5 GPM	2"	1-1/2"	2"	3/4"	3/4"	CUSTOM STAINLESS STEEL SINK, 12" DEEP DOUBLE COMPARTMENT SINK. CHICAGO FAUCET 786-GN8AFCABCP DECK MOUNTED FAUCET WITH 8" CENTERS , 3-HOLE, POLISHED CHROME 1.5 GPM ELKAY D1125 DAYTON 3-1/2" STRAINER MCGUIRE #8912CB, P-TRAP IN SINK ERATOR #LC50; LIGHT CAPACITY FOOD WASTE DISPOSER. ZURN #Z-1180; ACID RESISTANT COMPOSITE SOLIDS INTERCEPTOR WITH PVC SEDIMENT BUCKET AND SCREEN, STAINLESS STEEL LATCHES AND GASKETED COVER. INSTALL ON FLOOR UNDER SINK IN LIEU OF P-TRAP.
MS-1	MOP SINK	1.5 GPM	2"	2"	2"	3/4"	3/4"	FIAT #TSB-300, ONE PIECE MOP SERVICE BASIN, 36"X36"X12", THRESHOLD CAP. CHICAGO FAUCET #897-RCF, MANUAL SINK FAUCET, 8" CENTERS, LEVER HANDLES, PAIL HOOK, WALL BRACE, INTEGRAL ATMOSPHERIC VACUUM BREAKER MIFAB #F1100, CAST IRON BODY FLOOR DRAIN, NICKEL BRONZE STRAINER.
MS-2	MOP SINK	1.5 GPM	2"	2"	2"	3/4"	3/4"	FIAT #TSB-700, ONE PIECE MOP SERVICE BASIN, 36"X24"X12", THRESHOLD CAP. CHICAGO FAUCET #897-RCF, MANUAL SINK FAUCET, 8" CENTERS, LEVER HANDLES, PAIL HOOK, WALL BRACE, INTEGRAL ATMOSPHERIC VACUUM BREAKER MIFAB #F1100, CAST IRON BODY FLOOR DRAIN, NICKEL BRONZE STRAINER.
DWD-1	DECONTAMINATION WASH DOWN	1.15 GPM	2"	2"	1-1/2"	3/4"	3/4"	INTEGRAL CONSTRUCTION WITH WALL MOUNT FAUCET AND FLOOR DRAIN. T&S BRASS #B-0133-B, WALL MOUNT FAUCET, LEVER HANDLES, 1.15 GPM SPRAY, WITH 6" WALL BRACKET, 44" FLEXIBLE STAINLESS STEEL HOSE. MIFAB #FC1100-FC, FLOOR DRAIN, EPOXY COATED, CAST IRON BODY, VANDAL PROOF.
FD-1	FLOOR DRAIN	N/A	2"	2"	-	N/A	N/A	MIFAB #F11100-C, FLOOR DRAIN, EPOXY COATED, CAST IRON BODY, VANDAL PROOF.
FS-1	FLOOR SINK	N/A	4"	2"	2"	N/A	N/A	BLUCHER BFD-344, SQUARE TOP 12"x12" WITH LADDER HALF GRATE AND SURFACE MEMBRANE CLAMP, 4" SUMP DEPTH, STAINLESS STEEL, SATIN FINISH, 14 GA., POLISHED STAINLESS-STEEL GRATING, 4" NO HUB OUTLET, REMOVEABLE PERFORATED STAINLESS-STEEL STRAINER BASKET WITH HANDLE.
EWC-1	ELECTRIC WATER COOLER (BI-LEVEL) ADA ♿	8 GPH	2"	1-1/2"	INTEGRAL	N/A	3/4"	HALSEY TAYLOR #HRF-SER, NO LEAD BI-LEVEL STAINLESS STEEL WATER COOLER. ALL METAL CONSTRUCTION JR SMITH #0834, FLOOR MOUNTED BI-LEVEL CARRIER.
TD-1	TRENCH DRAIN	N/A	4"	2"	4"	N/A	N/A	NEENAH FOUNDRY #R-4990-AX, HEAVY DUTY TRENCH FRAME AND GRATE SYSTEM, STANDARD 24"X8" SECTION, TYPE "A" GRATE OPENING. COORDINATE INSTALLATION WITH STRUCTURE. LENGTH AS INDICATED ON DRAWINGS.
TD-2	TRENCH DRAIN	N/A	2"	2"	2"	N/A	N/A	ZURN ZS880; STAINLESS STEEL LINEAR SHOWER DRAIN, VERTICALLY ADJUSTABLE ANCHORING SUPPORT LEGS, ANTI-PONDING V-SHAPED CHANNEL; 2" NO-HUB CENTER OUTLET, ADJUSTABLE SECURED LEVELING FRAME WITH BUILT-IN TILT EDGE, INTEGRAL MEMBRANE FLANGE FOR GLUE ON WATERPROOFING MEMBRANE, AND SECURED, LIGHT-DUTY, SLOTTED HEEL-PROOF GRATE.
WD-1	WATER DISPENSER	8 GPH	2"	1-1/2"	2"	N/A	3/4"	HALSEY TAYLOR #HTHB8-WF IN-WALL CHILLED STATION
WH-1	WALL HYDRANT	N/A	N/A	N/A	N/A	N/A	3/4"	MIFAB #MHY-20, ENCASED NON FREEZE, LOW LEAD WALL HYDRANT WITH 3/4" MALE HOSE CONNECTION, SELF DRAINING, AND ANTI-SIPHON VACUUM BREAKER, 3/4" INLET CONNECTION. CONTRACTOR SHALL COORDINATE AND CONFIRM WALL THICKNESS PEIOR TO PURCHASE.
WDB	WALL DRAIN BOX	N/A	2"	2"	1-1/2"	N/A	N/A	GUY GRAY #B-200, 20 GUAGE BOX & FACEPLATE WITH 2" THREAD DRAIN.
WMB	WASHING MACHINE BOX	N/A	2"	1-1/2"	2"	3/4"	3/4"	GUY GRAY #B-200, 20 GUAGE BOX & FACEPLATE WITH TWO 1/2" CONNECTION VALVES AND 2" THREAD DRAIN. MOUNT WITH BOTTOM OF BOX AT 42" A.F.F.
WSB	WATER SUPPLY BOX	N/A	N/A	N/A	N/A	N/A	3/4"	GUY GRAY #W9700 HA RECESSED OUTLET BOX, WITH VALVE AND HAMMER ARRESTOR, SWEAT CONNECTION

GAS WATER HEATER SCHEDULE

MARK	STORAGE CAPACITY (GALLONS)	RECOVERY GALLONS PER HOUR	TEMP. RISE	SET TEMP.	TOTAL BTU/HR	ELECTRICAL				REMARKS
						VOLTS	PHASE	HERTZ	AMP	
GWH-1&2	100	100	80	140	150,000	120	1	20	5	A.O. SMITH BTH-150A COMMERCIAL GAS WATER HEATER, ASME CERTIFIED PROVIDE MANUFACTURER'S CONCENTRIC VENT KIT.

NOTES:
1. LEAD FREE BRASS CONSTRUCTION
2. AUTOMATIC TIMER AND AQUASTAT
3. 3-YEAR WARRANTY
4. MANUFACTURER'S CONCENTRIC FLUE KIT
5. PROVIDE CONDENSATE NUETRALIZATION KIT
6. PROVIDE DRIP PAN
7. PROVIDE AIR INTAKE FILTER
8. DO NOT PROVIDE WATER SOFTENER
9. PROVIDE WITH EFFICIENCIES IN COMPLIANCE WITH 2021 IECC.
MINIMUM THERMAL EFFICIENCY= 80%
MAXIMUM STANBY LOSS= 120 BTU/H

RECIRCULATING PUMP SCHEDULE

MARK	SERVICE	GPM	TOTAL HEAD	MOTOR	ELECTRICAL			REMARKS
					VOLTS	PHASE	HERTZ	
RP-1	HOT WATER RECIRCULATION PUMP	1.5	3	3/5-28	120	1	30	BELL & GOSSETT e3-6V/BUPYZ ADJUSTABLE SPEED, PLUG IN.

FURNISH WITH THE FOLLOWING OPTIONS AND/OR ACCESSORIES:
1. LEAD FREE STAINLESS STEEL CONSTRUCTION
2. AUTOMATIC TIMER AND AQUASTAT
3. 3-YEAR WARRANTY
4. NYLON IMPELLER
5. CERAMIC CARBON BEARINGS
6. 6'-0" ELECTRICAL CORD

SAND-OIL INTERCEPTOR SCHEDULE

MARK	DESCRIPTION	GPM	MAX CAPACITY	MAX OIL CAPACITY	NOTES
SOI-1	BURIED CONCRETE INTERCEPTOR WITH ACESS AND SAMPLE WELL PORTS.	100	750 GAL	375 GAL	PARK USA SOCMP-TG-750-100, REINFORCED CONCRETE, ALL MATERIALS CORROSION RESISTANT, WITH 4" INLET AND OUTLET, 24" ACCESS WAY, SAMPLE WELL PORTS, AND 30 YEAR WARRANTY. FURNISH BY DIVISION 22 CONTRACTOR.

SHOCK ARRESTOR SCHEDULE

MARK	THREADED	F.U. RATING	P.D.I. CROSS REFERENCE	MANUFACTURER
WHA	1/2"	1-11	A	WATTS LF15MS2-A
WHA	3/4"	12-32	B	WATTS LF15M2S-B
WHA	1"	33-80	C	WATTS LF15M2S-C
WHA	1"	81-113	D	WATTS LF15M2S-D

NOTES:
1. SOLDER CONNECTION

HW MIXING VALVE SCHEDULE

MARK	TMV-1
SERVICE	FIXTURES
VALVE OPERATION	THERMOSTATIC
OUTLET TEMPERATURE	110 DEG F
MIN. GPM	0.25
MAX. GPM	12
GPM @ 10 PSI PRESSURE DROP	6.6
GPM @ 20 PSI PRESSURE DROP	7.5
INLET SIZES	1/2"
OUTLET SIZE	1/2"
RE-CIRCULATION SIZE	-
MANUFACTURER	LEONARD
MODEL NO.	ECO-MIX 270 LF-BRKT

NOTES:
1. COMPLY WITH ASSE 1070
2. LEAD FREE

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CHRISTOPHER L. VEGA
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F-24898

PROJECT # 24006

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78214

REVISIONS
1 Permit Review Comments 2025/12/22
2 Addendum 01 2026/02/27

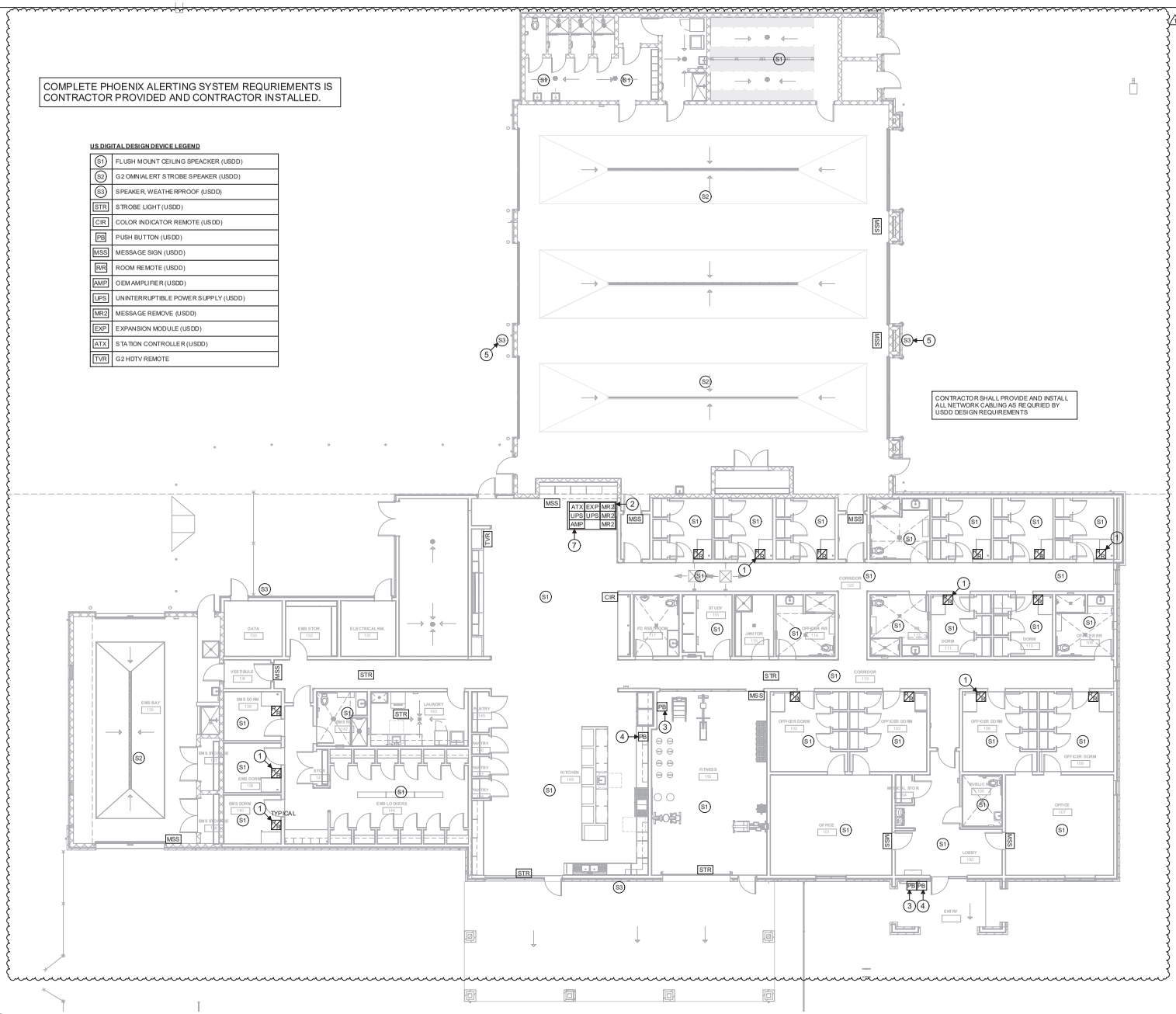
PROJECT NO.
24-05

PHASE
100% CONSTRUCTION DOCUMENTS

DATE
OCTOBER 2025

DESCRIPTION
PLUMBING SCHEDULES

P4.01



1 T600 TECHNOLOGY SPECIAL SYSTEMS OVERALL FLOOR PLAN
1/8" = 1'-0"

US DIGITAL DESIGNS DRAWING T600 GENERAL NOTES:

1. FIRE STATION ALERTING SYSTEM (PHOENIX SYSTEM) IS DESIGNED BY US DIGITAL DESIGN (USDD). COMPLETE PHOENIX ALERTING SYSTEM EQUIPMENT IS CONTRACTOR PROVIDED AND CONTRACTOR INSTALLED. VENDOR OF PHOENIX ALERTING SYSTEM EQUIPMENT SHALL BE US DIGITAL DESIGN. INSTALLATION OF SYSTEM SHALL BE PERFORMED BY US DIGITAL DESIGN (USDD) APPROVED INSTALLER ONLY. CONTACT USDD REPRESENTATIVE PETER DONKIN AT 602-687-1759 FOR COORDINATION.
2. USDD PHOENIX FIRE ALERTING SYSTEM IS SHOWN FOR DESIGN INTENT. ALERTING SYSTEM SHALL BE DESIGNED, AND FULLY COMMISSIONED BY USDD TO BE INCLUDED UNDER THIS CONTRACT.
3. COMPLETE INSTALLATION OF FIRE ALERTING SYSTEM INCLUDING BUT NOT LIMITED TO WIRING, CONDUIT, BOXES, SUPPORT, PHOENIX EQUIPMENT DEVICES, AND PROGRAMMING SHALL BE INCLUDED IN THIS CONTRACT. COORDINATE SYSTEM INSTALLATION WITH USDD APPROVED INSTALLER PRIOR TO ROUGH-IN.
4. USDD DRAWING IS INCLUDED FOR REFERENCE PURPOSES ONLY. OBTAIN FINAL INSTALLATION DRAWING FROM US DIGITAL DESIGN.
5. LOCATIONS OF DEVICES ARE DIAGRAMMATICAL EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY CONFLICTS PRIOR TO ROUGH-IN.
6. COORDINATE ADDITIONAL CONDUIT AND JUNCTION BOX REQUIREMENTS WITH US DIGITAL DESIGN INSTALLATION DRAWINGS PRIOR TO ROUGH-IN.
7. REFER TO FINAL USDD SYSTEM INSTALLATION DRAWINGS FOR FINAL CONDUIT AND CABLING REQUIREMENTS.
8. CONTRACTOR TO SUBMIT USDD INSTALLATION SHOP DRAWINGS BASED ON FINAL CONTRACT DOCUMENTS FOR REVIEW PRIOR TO ROUGH-IN.
9. CONTRACTOR TO INCLUDE ONE YEAR SUPPORT ON SYSTEM.
10. CONTRACTOR TO INCLUDE ONE YEAR PARTS AND LABOR ON SYSTEM INSTALLATION.
11. CONDUIT, RACEWAYS, SUPPORT, JUNCTION BOXES AND BACKBOXES ARE TO BE PROVIDED AND INSTALLED BY THE GENERAL CONTRACTOR AND ARE NOT INCLUDED IN THE USDD ALLOWANCE AMOUNT.

TECHNOLOGY FLOOR PLAN SHEET T600 KEYED NOTES

1. PROVIDE 1-INCH CONDUIT FROM ROUGH-IN TO 6-INCH ABOVE NEAREST ACCESSIBLE CEILING. REFER TO US DIGITAL DESIGN INSTALLATION DRAWINGS FOR JUNCTION BOX ROUGH-IN OPENING HEIGHT INSTALLATION REQUIREMENTS
2. PROVIDE 1-INCH CONDUIT FROM MESSAGE REMOTE TO NEAREST ACCESSIBLE CEILING.
3. US DIGITAL DESIGN EMERGENCY CALL PUSH BUTTON PROVIDE 1-INCH CONDUIT TO MESSAGE REMOTE. OWNER TO PROVIDE PUSH BUTTON LABELS FOR CONTRACTOR INSTALLATION. PROVIDE JUNCTION BOXES AS REQUIRED.
4. US DIGITAL DESIGN NON-EMERGENCY CALL PUSH BUTTON PROVIDE 1-INCH CONDUIT TO MESSAGE REMOTE. OWNER TO PROVIDE PUSH BUTTON LABELS FOR CONTRACTOR INSTALLATION. PROVIDE JUNCTION BOXES AS REQUIRED.
5. PROVIDE SURFACE MOUNTED 4-INCH SQUARE JUNCTION BOX WITH 2-INCH MUD RING AND COVER. PROVIDE 1-INCH CONDUIT TO MESSAGE REMOTE OR OTHER LOCATION AS INDICATED ON US DIGITAL DESIGN INSTALLATION DRAWINGS. PROVIDE A 1¼-INCH DIAMETER HOLE CENTERED IN THE JUNCTION BOX COVER WITH A HEYCO #2840 BUSHING. MOUNT APPARATUS BAY JUNCTION BOX SPEAKERS AT 13' A.F.F AND OUTSIDE SPEAKER JUNCTION BOXES AT 11' A.F.F. EXTERIOR SPEAKER JUNCTION BOXES SHALL BE RECESSED.
6. CEILING SPEAKERS (HARD CEILING) – PROVIDE BOGEN RES4 CEILING SPEAKER ENCLOSURE IN ALL HARD CEILING APPLICATIONS. PROVIDE 1-INCH EMPTY CONDUIT TO ENCLOSURE AND RUN TO NEAREST ACCESSIBLE CEILING LOCATION EQUIPMENT OR AS NOTED ON US DIGITAL DESIGN INSTALLATION DRAWING. CEILING SPEAKERS (SUSPENDED CEILING) – PROVIDE BOGEN TBS AS APPRPRIATE FOR SPECIFIED SPEAKERS. PROVIDE RES4 CEILING SPEAKER ENCLOSURES OR AS NOTED BY US DIGITAL DESIGN INSTALLATION DRAWING.
7. FURNISH AND INSTALL AN APHONE MASTER INTERCOM STATION WITH DOOR RELEASE BUTTON. WIRE INTERCOM STATION AT ENTRY GATE (SEE SITE PLAN) AND PROVIDE CONTROL WIRING TO GATE CONTROLLER TO OPEN AND CLOSE GATES. PROVIDE POWER TRANSFORMER MOUNTED CONCEALED BELOW JOKER STAND. INSTALL STATION ON FLUSH WALL BOX DIRECTED AT SITE. PROVIDE COMPLETE SUBMITTAL INCLUDING COMPLETE WIRING, ROUTING AND CONNECTIONS. INSTALL ALL WIRING IN CONDUIT. PROVIDE CONTROL RELAY AT GATE OPERATOR AS REQUIRED. EXTEND 1-INCH CONDUIT TO 6-INCH ABOVE NEAREST ACCESSIBLE CEILING. ROUTE GATE INTERCOM COMMUNICATIONS CABLING TO MDF AND TERMINATE AT SPD DEVICES, INTERCONNECT AS DIRECTED BY ITSD. EXTEND COMMUNICATION CABLING FROM MDF TO JOKER STAND INTERCOM BOX. COORDINATED INSTALLATION OF GATE INTERCOM SYSTEM WITH COSA ITSD.

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CITY OF SAN ANTONIO
FIRE STATION #21 REPLACEMENT
411 WEST HARLAN SAN ANTONIO, TX
78214

REVISIONS
ADDENDUM #1 02/26/2026

PROJECT NO. 24-05
PHASE 100% CONSTRUCTION DOCUMENTS
DATE 10-17-2025
DESCRIPTION TECHNOLOGY SPECIAL SYSTEMS OVERALL FLOOR PLAN

T600

COMPLETE PHOENIX ALERTING SYSTEM REQURIEMENTS IS CONTRACTOR PROVIDED AND CONTRACTOR INSTALLED.

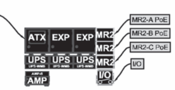
US DIGITAL DESIGNS

Count	Name
2	G2 EXPANSION UNIT (ATX-EXP)
3	UPS (UPS-STD)
3	UPS SHELF-BRACKET WALL-MOUNT (UPS-WMB)
1	EXTERNAL AMPLIFIER (AMP-70V)
1	AMP SHELF-WALL MOUNT (AMP-S)
1	G2 COLOR INDICATOR REMOTE (CIR)
1	G2 HDTV REMOTE (TV-R)
1	G2 IO REMOTE (IOR)
2	PUSH BUTTON (PB-B)
2	PUSH BUTTON (PB-R)
3	G2 MESSAGE REMOTE 2 (MR-2)
11	G2 MESSAGE SIGN LCD (USDD-LCD-SIGN)
4	MS MOUNT ARTICULATING (MS-MNT)
15	G2 ROOM REMOTE 2 (RR-2)
15	G2 LED SPEAKER (SPK-LED-FM)
3	G2 OMNISTROBE SPEAKER (SPK-OAS)
21	G2 SPEAKER - STANDARD (SPK-STD-FM)
4	SPEAKER WEATHER-PROOF (SPK-W-SM)
4	G2 STROBE LIGHT (STR-2)

US DIGITAL DESIGNS

Count	Name
31	G2 PoE PORT REQUIRED

CUSTOMER TO PROVIDE ATX FROM BENCH STOCK



ALERTING SYSTEM EQUIPMENT BY JOKER STAND RM 128

SYMBOL	DESCRIPTION
ATX	G2 ATX STATION CONTROLLER
EXP	G2 EXPANSION MODULE
ATX LT	G2 ATX LITE STATION CONTROLLER
UPS	G2 UNINTERRUPTIBLE POWER SUPPLY
AMP	EXTERNAL AMPLIFIER
I/O	G2 I/O REMOTE
MR2	G2 MESSAGE REMOTE 2
RR2	G2 ROOM REMOTE 2
RUI	G2 REMOTE USER INTERFACE MODULE
LAR	G2 LOCAL ALERTING REMOTE MODULE
	G2 ROOM REMOTE SURFACE MOUNT BOX
TVR	G2 HDTV REMOTE
CIR	G2 COLOR INDICATOR REMOTE
	G2 COLOR INDICATOR REMOTE BACK BOX
PB	PUSH BUTTON - RED
PB	PUSH BUTTON - BLACK
VDS	G2 VIDEO DOOR STATION
STR	G2 STROBE LIGHT
T	OEM TRANSFORMER
S	G2 OMNIALERT STROBE SPEAKER
S	G2 LED SPEAKER, FLUSH MOUNT
S	G2 LED SPEAKER, METAL BOX
S	SPEAKER, WEATHER-PROOF
S	SPEAKER, FLUSH MOUNT
S	SPEAKER, METAL BOX
MSM	G2 MESSAGE SIGN (MINI 12")
MSS	G2 MESSAGE SIGN (STANDARD 24")
MSE	G2 MESSAGE SIGN (EXTENDED 36")
MS-LCD	G2 LCD MESSAGE SIGN
FPM - XX"	OEM FLAT PANEL MONITOR, XX", WITH MOUNT
VC	VOLUME CONTROL (CUSTOMER SUPPLIED)
UPS-WMB	SHELF/BRACKET, WALL-MOUNT FOR UPS
AMP-S	SHELF, UNDER TABLE OR WALL MOUNT
	ADAPTER PLATE SINGLE
	ADAPTER PLATE DOUBLE
	RACK MOUNT EARS FOR G2 ATX OR G2 EXP
	ARTICULATING ARM MOUNT - LONG

INSTALLER NOTES:
1. INSTALLER TO VERIFY WALL AND CEILING TYPE TO DETERMINE EQUIPMENT MOUNTING TYPE (FLUSH OR SURFACE).
2. INSTALLER TO COORDINATE CONNECTION BETWEEN ATX STATION CONTROLLER'S LINE-LEVEL AUDIO OUTPUT AND (EXISTING) OWNER-FURNISHED HOUSE AUDIO SYSTEM (AMP). (IF APPLICABLE)
3. INSTALLER TO PROVIDE CAT6 & 16/4 CABLES FROM ATX CONTROLLER TO CUSTOMER'S STATION RADIO FOR BACKUP.
4. INSTALLER TO COORDINATE CONNECTION BETWEEN EXISTING STATION LIGHTING CONTROL SYSTEM AND RELAY OUTPUT FROM ATX STATION CONTROLLER OR I/O REMOTE WITH OWNER. (IF APPLICABLE)
5. VOLUME CONTROL PROVIDED BY OWNER OR INSTALLER IF SHOWN ON DRAWING.
6. INSTALLER TO VERIFY AND CONSIDER LOCATION(S) OF NETWORK AND RADIO CONNECTIONS.
7. INSTALLER MUST RUN A GROUNDING WIRE (PER CODE) FROM ATX TO STATION GROUND.

PoE = G2 ATX Power-over-Ethernet (PoE) ports 1...8 and G2 Expansion Module ports 1...12

A.n = G2 ATX Amplifier 1...4 **EA.n** = G2 External Amplifier 1...n **CH.n** = G2 Message Remote 2 Channel 1 or 2

NOTES:
1. SEE ARCHITECTURAL SPECIFICATIONS FOR ALL ROUGH-IN AND INSTALLATION DETAILS.
2. US DIGITAL DESIGNS DOES NOT SUPPLY CABLE,WIRE, BACK BOXES, CONDUITS, OR MOUNTING FASTENERS.
3. US DIGITAL DESIGNS FIRE STATION ALERTING PLANS ARE DIAGRAMMATIC AND FOR QUOTING PURPOSES ONLY. DRAWING IS NOT TO SCALE.
4. PHOENIX G2 SYSTEM IS ABLE TO SIGNAL OWNER-FURNISHED SYSTEMS, (EXHAUST, LIGHT, GAS SHUT OFF, ETC.). USDD DOES NOT SUPPLY THESE SYSTEMS AND CANNOT WARRANT OR SUPPORT ANY OF THEIR PERFORMANCE BEYOND THE TRANSMISSION OF RELAY SIGNAL TO THEM.

BICSI REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
Eric J Perta
BICSI ID # 311985
RCDD
10/17/2025

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REVISIONS
1 ADDENDUM #1 02/26/2026

PROJECT NO.
24-05
PHASE
100% CONSTRUCTION DOCUMENTS
DATE
10-17-2025
DESCRIPTION
TECHNOLOGY SPECIAL SYSTEMS DETAIL

T601

COMPLETE PHOENIX ALERTING SYSTEM REQURIEMENTS IS CONTRACTOR PROVIDED AND CONTRACTOR INSTALLED.

SYSTEM ZONING LEGEND	
ZONE	Name
A.1	COMMON AREA
A.2	HALLWAYS
A.3	EMS COMMON AREA
A.4	SHOWER/DECON/BUNKER
EA.1	EXTERIOR/PATIO
RR2	EMS DORM/DORMS
MR2	APPARATUS BAY

SYMBOL	DESCRIPTION
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EXP	G2 EXPANSION MODULE
ATX LT	G2 ATX LITE STATION CONTROLLER
UPS	G2 UNINTERRUPTIBLE POWER SUPPLY
AMP	EXTERNAL AMPLIFIER
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	G2 ROOM REMOTE SURFACE MOUNT BOX
IVR	G2 HDTV REMOTE
CIR	G2 COLOR INDICATOR REMOTE
	G2 COLOR INDICATOR REMOTE BACK BOX
PB	PUSH BUTTON - RED
PB BLACK	PUSH BUTTON - BLACK
VDS	G2 VIDEO DOOR STATION
STR	G2 STROBE LIGHT
T	OEM TRANSFORMER
S	G2 OMNIALERT STROBE SPEAKER
S	G2 LED SPEAKER, FLUSH MOUNT
S	G2 LED SPEAKER, METAL BOX
S	SPEAKER, WEATHER-PROOF
S	SPEAKER, FLUSH MOUNT
S	SPEAKER, METAL BOX
MS1	G2 MESSAGE SIGN (MINI 12")
MS2	G2 MESSAGE SIGN (STANDARD 24")
MS3	G2 MESSAGE SIGN (EXTENDED 36")
MS-LCD	G2 LCD MESSAGE SIGN
FPM - XX"	OEM FLAT PANEL MONITOR, XX", WITH MOUNT
VC	VOLUME CONTROL (CUSTOMER SUPPLIED)
UPS-WMS	SHELF/BRACKET, WALL-MOUNT FOR UPS
AMP-S	SHELF, UNDER TABLE OR WALL MOUNT
	ADAPTER PLATE SINGLE
	ADAPTER PLATE DOUBLE
	RACK MOUNT EARS FOR G2 ATX OR G2 EXP
	ARTICULATING ARM MOUNT - LONG

INSTALLER NOTES:
1. INSTALLER TO VERIFY WALL AND CEILING TYPE TO DETERMINE EQUIPMENT MOUNTING TYPE (FLUSH OR SURFACE).
2. INSTALLER TO COORDINATE CONNECTION BETWEEN ATX STATION CONTROLLER'S LINE-LEVEL AUDIO OUTPUT AND (EXISTING) OWNER-FURNISHED HOUSE AUDIO SYSTEM (AMP). (IF APPLICABLE)
3. INSTALLER TO PROVIDE CAT6 & 16/4 CABLES FROM ATX CONTROLLER TO CUSTOMER'S STATION RADIO FOR BACKUP.
4. INSTALLER TO COORDINATE CONNECTION BETWEEN EXISTING STATION LIGHTING CONTROL SYSTEM AND RELAY OUTPUT FROM ATX STATION CONTROLLER OR I/O REMOTE WITH OWNER. (IF APPLICABLE)
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1. SEE ARCHITECTURAL SPECIFICATIONS FOR ALL ROUGH-IN AND INSTALLATION DETAILS.
2. US DIGITAL DESIGNS DOES NOT SUPPLY CABLE,WIRE, BACKBOXES, CONDUITS, OR MOUNTING FASTENERS.
3. US DIGITAL DESIGNS FRE STATION ALERTING PLANS ARE DIAGRAMMATIC AND FOR QUOTING PURPOSES ONLY. DRAWING IS NOT TO SCALE.
4. PHOENIX G2 SYSTEM IS ABLE TO SIGNAL OWNER-FURNISHED SYSTEMS, (EXHAUST, LIGHT, GAS SHUT OFF, ETC.). USDD DOES NOT SUPPLY THESE SYSTEMS AND CANNOT WARRANT OR SUPPORT ANY OF THEIR PERFORMANCE BEYOND THE TRANSMISSION OF RELAY SIGNAL TO THEM.

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REVISIONS
1 ADDENDUM #1 02/26/2026

PROJECT NO. 24-05
PHASE 100% CONSTRUCTION DOCUMENTS
DATE 10-17-2025
DESCRIPTION TECHNOLOGY SPECIAL SYSTEMS DETAIL

T602