November 4, 2026

Addendum No. 4

Project:	Fire Station No. 42
Address:	XXXX Ranch Rd. 12 Wimberley, Texas 78676
Client:	Hays County ESD #4/Wimberley Fire Rescue
Architect:	Martinez Architects



martinez
ARCHITECTS

This Addendum forms a part of the Contract Documents and modifies the original Bidding Documents and/or prior Addenda as noted below. All conditions, requirements, materials and workmanship shall be satisfied as described in the Contract Documents unless specifically stated otherwise. This Addendum consists of the attached contract documents, specifications, and drawings as listed and described below, dated 11.04.2026.

Revisions to Project Manual:

1. **TOC – Table of Contents**
    a. Add 03 35 11 – Concrete Floor Finishes
    b. Remove 10 26 00 – Wall and Door Protection
    c. Add 10 99 00 – Miscellaneous Specialties
2. **03 35 11 – Concrete Floor Finishes**
    a. Add spec in its entirety
3. **10 26 00 – Wall and Door Protection**
    a. Remove spec in its entirety
4. **10 99 00 – Miscellaneous Specialties**
    a. Add spec in its entirety
5. **13 34 19 – Metal Building Systems**
    a. Wall R-Value to be R-19
    b. Roof R-Value to be R-30

Revisions to Civil Construction Documents:

1. **Drawing Sheet 3 – EXISTING CONDITIONS AND DEMOLITION PLAN**
    a. Note 9 has been added to the DEMOLITION PLAN NOTES
2. **Drawing Sheet 6 – SITE PLAN**
    a. Covered Area Alternate note has been revised.
    b. Artificial Turf note has been revised.
3. **Drawing Sheet 16 – STORM DRAIN CONNECTION INSET**
    a. Hatch has been added to indicate alternate area
4. **Drawing Sheet 17 – WATER CONNECTION INSET**
    a. Irrigation stubout has been relocated.
5. **Drawing Sheet 22 – SITE DETAILS**
    a. Turf drain detail note has been revised

Revisions to Architectural Construction Documents:

1. **Drawing Sheet A-101 – OVERALL FLOOR PLAN**
    a. App Bay Deductive Alternate call out has been added
2. **Drawing Sheet A-111 – OVERALL EQUIPMENT FLOOR PLAN**
    a. Fire Extinguishers has been tagged
    b. FF&E Schedule has been revised
3. **Drawing Sheet A-121 – OVERALL PEMB PLAN**
    a. App Bay Deductive Alternate call out has been added
4. **Drawing Sheet A-123 – PEMB PLAN B**
    a. App Bay Deductive Alternate call out has been added
5. **Drawing Sheet A-141 – OVERALL PARTITION TYPE FLOOR PLAN**
    a. App bay vestibule 126 South wall changed to A3.2/0.
    b. Mech Mezzanine partitions has been revised.
    c. Wall at vestibule 126 column pocket has been changed to B6.2/1
6. **Drawing Sheet A-161 – OVERALL REFLECTED CEILING FLOOR PLAN**
    a. App Bay Deductive Alternate call out has been added.
    b. Kitchen strip and RCP legend has been revised
    c. 7’-0” call out removed
7. **Drawing Sheet A-162 – ENLARGED REFLECTED CEILING FLOOR PLAN**
    a. Kitchen strip and RCP legend has been revised
8. **Drawing Sheet A-181 – ROOF PLAN**
    a. Covered Area Alternate has been called out
9. **Drawing Sheet A-201 – EXTERIOR ELEVATIONS**



a. Mech yard walls has been changed to CMU.
b. Split face CMU has been added to the exterior finish legend

10. **Drawing Sheet A-202 – EXTERIOR ELEVATIONS**
    a. Split face CMU has been added to the exterior finish legend
11. **Drawing Sheet A-221 – INTERIOR ELEVATIONS**
    a. Interior finishes schedule has been revised, and Plastic Laminate 3 has been removed.
12. **Drawing Sheet A-222 – INTERIOR ELEVATIONS**
    a. Interior finishes schedule has been revised, and Plastic Laminate 3 has been removed.
13. **Drawing Sheet A-223 – INTERIOR ELEVATIONS**
    a. Interior finishes schedule has been revised, and Plastic Laminate 3 has been removed.
14. **Drawing Sheet A-224 – INTERIOR ELEVATIONS**
    a. Interior finishes schedule has been revised, and Plastic Laminate 3 has been removed.
15. **Drawing Sheet A-401 – LARGE SCALE TOILET PLANS**
    a. ADA RR 101 Shower keynotes has been revised.
    b. Interior finishes schedule has been revised, and Plastic Laminate 3 has been removed.
    c. ADA RR 116 keynotes has been revised.
16. **Drawing Sheet A-402 – LARGE SCALE TOILET PLANS**
    a. Sheet in its entirety has been added.
17. **Drawing Sheet A-421 – KITCHEN PLANS**
    a. Replace sheet in its entirety.
    b. Faux wood beam and column call outs has been revised.
    c. Interior finishes schedule has been revised, and Plastic Laminate 3 has been removed.
18. **Drawing Sheet A-521 – EXTERIOR DETAILS – DOOR, WINDOW & LOUVER DETAILS**
    a. Wall insulation R value has been revised to be R-19
19. **Drawing Sheet A-531 – EXTERIOR DETAILS – TYPICAL ROOF DETAILS**
    a. General note 11 has been revised
20. **Drawing Sheet A-541 – INTERIOR DETAILS**
    a. Detail A4 has been removed
    b. Detail B3 has been added
    c. Detail A5 has been revised
21. **Drawing Sheet A-551 – INTERIOR DETAILS – MILLWORK DETAILS**
    a. Faux Wood Beam call out has been revised
22. **Drawing Sheet A-621 – ROOM FINISH SCHEDULE**
    a. ACT has been added to Kitchen 110 and App Bay 139.
    b. Interior finishes schedule has been revised, and Plastic Laminate 3 has been removed.
    c. Note 7 has been revised

Revisions to Structural Construction Documents:

1. **Drawing Sheet S-101 – GENERAL NOTES**
    a. REINFORCING STEEL note 8 has been revised
2. **Drawing Sheet S-201 – FOUNDATION PLAN**
    a. App Bay Deductive Alternate call out has been added.
    b. Building C concrete slab has been removed.

Revisions to MEP Documents:

See attached narrative of changes



ADDENDUM NARRATIVE

Project Name: Hays County ESD#4 Station #42 (EMEP#: 25018)
Date: November 04, 2026
ADDENDUM No.: 4

(SPECIFICATIONS)

001. **26 02 00 – BASIC MATERIALS AND METHODS FOR ELECTRICAL**
- A. Added verbiage to section 3.2.

002. **26 05 33 – RACEWAYS**
- A. Added verbiage to section 3.2

003. **28 05 00 – BASIC MATERIALS AND METHODS FOR FIRE ALARM**
- A. Added verbiage to section 3.2

(SHEETS)

004. **MEP-201 – MEP SITE PLAN**
- A. Relocated electrical connection for OSSF plant alarm.
- B. Relocated electrical connection for OSSF air compressor.
- C. Added electrical keyed notes 8 through 12.
- D. Added technology pathway into building.
- E. Identified routing of feeder to panel 'R'.

005. **MEP-301 – ENLARGED MEP PLAN**
- A. Identified homerun and circuit for receptacles in pump room.
- B. Revised electrical keyed notes 2 and 3.

006. **M-201 – MECHANICAL PLAN**
- A. Added duct dimensions for ceiling exhaust fans.
- B. Added duct dimension for supply air duct in Fitness room.
- C. Added return air grille 'J' in TV Room.
- D. Added condensate drain line from DS-T1 to RR 125 Lavatory Y-tail piece.
- E. Added "coordinate with Division 22" to end of keyed note #15.
- F. Revised keyed note #29.

007. **M-601 – MECHANICAL DETAILS**

A. Replaced detail #15 and added detail #27.

008. **E-101 – LIGHTING PLAN**

A. Revised electrical keyed note 3.
B. Removed one timer switch for field lights.
C. Assigned field lights to dedicated circuit.
D. Identified lighting zones for corridor light fixtures.
E. Revised light switch designations for light switches for dayroom and kitchen areas.
F. Revised fixture type for shower lighting RR101.
G. Revised light switch designation in TV room.
H. Identified night lights in apparatus bay.
I. Added step lights in dorm corridor.
J. Removed W4 lights in dorm rooms.
K. Revised light configuration in fitness room.

009. **E-102 – LIGHTING PLAN - MEZZANINE**

A. Added circuit for light fixtures in mech. platform area.
B. Added circuit for task flood lights.

010. **E-201 – POWER PLAN – LEVEL ONE**

A. Revised receptacle type in pantries to be GFCI.
B. Revised receptacle NEMA rating for dryers.
C. Added receptacle in Office 104.
D. Corrected keyed note assigned to electric trip primers.
E. Added electrical keyed note 22.
F. Revised disconnect frame size for ACCU-1, 3, and 5.
G. Revised electrical keyed note 8 and 17.
H. Added electrical connection for gas shut off valve.
I. Relocated Panel 'R' and associated SPD to mechanical yard.
J. Removed technology entry point from plan.

011. **E-202 – POWER PLAN - MEZZANINE**

A. Revised electrical connection for air compressor
B. Revised electrical keyed note 5 and 6.
C. Revised receptacle type dedicated for IT rack equipment.
D. Added electrical keyed notes 8 through 10.
E. Removed technology pathway to IT/Elec. Room.

012. **E-300 – TECHNOLOGY ROUGH-IN PLAN**

A. Added sheet to set.

013. **E-401 – ELECTRICAL ONE-LINE DIAGRAM**

A. Added electrical keyed note 11.
B. Revised location of panel 'R'.
C. Revised future stub out from tap box.
D. Revised electrical keyed notes 5, 8, and 9.

014. **E-501 – LIGHTING SCHEDULES**

A. Added fixture type 'L' to lighting schedule.
B. Revised lighting schedule note 2.
C. Added switch types to lighting control device schedule.
D. Revised sequence of operations.
E. Added fixture type 'R' to lighting schedule.
F. Removed W4 light from schedule.

015. **E-502 – ELECTRICAL PANEL SCHEDULES**

A. Increased AIC rating for all panels.
B. Panel MDP – increased wire size for circuit breaker feeding Panel 'R' to account for voltage drop.
C. Panel A2 – revised panel to be MLO in lieu of MCB.
D. Panel B – added load to circuit 24.
E. Panel C – revised panel to be MLO in lieu of MCB.
F. Panel C – increased circuit breaker for OAHU-1 to 45A
G. Panel C – decreased circuit breaker for FCU-5 to 15A.
H. Panel C – added load for gas shut off valve.
I. Panel P – revised NEMA rating for panel to N3R.
J. Panel P – reduced circuit breaker and wire size for jockey pump.
K. Panel R – increased wire size for circuit breaker feeder panel 'P' to account for voltage drop.

016. **E-601 – ELECTRICAL DETAILS**

A. Added electrical detail 11.

017. **E-602 – ELECTRICAL DETAILS**

A. Added general note to fire alarm detail.
B. Revised NEMA ratings for plug and receptacle for 30A cord reel detail.
C. Revised typical device elevation detail.

018. **P-201 – PLUMBING PLANS**

A. Added TP-1 plumbing tags.
B. Shifted grease waste and interceptor equipment to move exterior cleanout (ECO) away from path of ADA ramp.
C. Shifted HW drop for Dishwasher under SK-2.
D. Routed floor sink piping for undercounter ice maker in kitchen to non-grease sanitary sewer.

019. **P-401 – PLUMBING RISERS**

A. Revised Propane Gas Load Breakdown for Generator and Totals.

B. Revised pipe size to generator, updated demand, and added total building load.

020. **P-501 – PLUMBING SCHEDULES AND NOTES**

A. Removed TP-2 from plumbing equipment schedule.

B. Revised BFP-1 model number to list correct model / series from Watts.

C. Revised HB-1 model to quarter-turn hose bibb.

021. **P-601 – PLUMBING DETAILS**

A. Moved detail for electronic trap primer to this sheet.

022. **P-602 – PLUMBING DETAILS**

A. Eliminated detail for automatic trap primer.

B. Moved detail for electronic trap primer to P601.

END OF NARRATIVE

SECTION 03 35 11
CONCRETE FLOOR FINISHES

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Liquid densifiers and hardeners.

B. Penetrating sealers.

1.02 RELATED REQUIREMENTS

A. Section 03 30 00 - Cast-in-Place Concrete: Finishing of concrete surface to tolerance; floating, troweling, and similar operations; curing.

B. Section 03 35 43 - Polished Concrete

1.03 ADMINISTRATIVE REQUIREMENTS

A. Coordination:
   1. Coordinate the work with concrete floor placement and concrete floor curing.

1.04 SUBMITTALS

A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.

B. Product Data: Manufacturer's published data on each finishing product, including information on compatibility of different products and limitations.

C. Manufacturer's Instructions: Indicate manufacturer's installation instructions for preparation of substrate, application of finishing products, and requirements for polishing and protection of finished surface.

D. Maintenance Data: Provide data on maintenance and renewal of applied finishes.

E. Specimen warranty.

F. Executed warranty.

1.05 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section, with at least 3 years of documented experience.

B. Installer Qualifications: Company specializing in performing work of type specified and with at least 3 years of documented experience.

1.06 FIELD CONDITIONS

A. Maintain light level equivalent to a minimum 200 W light source at 8 feet (2.5 m) above the floor surface over each 20 foot (6 m) square area of floor being finished.

B. Maintain ambient temperature of 50 degrees F (10 degrees C) minimum.

1.07 WARRANTY

A. See Section 01 78 00 - Closeout Submittals for additional warranty requirements.

B. Manufacturer Warranty: Provide two-year manufacturer warranty for specified products commencing on the Date of Substantial Completion.

PART 2 PRODUCTS

2.01 APPLICATIONS

A. Provide products form a single manufacturer.

B. Densifier and Hardener:
   1. Use at the following locations: All locations receiving sealed concrete (SC-1)..

C. Penetrating Sealer:
   1. Use at the following locations: All locations receiving sealed concrete (SC-1)..

a. Locations receiving polished concrete to receive selaer as specified under Section 03 35 43 - Polished Concrete.

2.02 DENSIFIERS AND HARDENERS

A. Liquid Densifier and Hardener: Penetrating chemical compound that reacts with concrete, filling the pores, hardening, and dustproofing.
   1. Products:
      a. Ameripolish, Inc; 3D HS Hybrid Silicate Densifier: www.ameripolish.com/#sle.
      b. PROSOCO, Inc; Consolideck LS: www.prosoco.com/consolideck/#sle.
      c. SASE D1 Densifier, SASE Company; www:sasecompany.com .
      d. Ashford Formula; Curecrete: www.curecrete.com
      e. Substitutions: See Section 01 60 00 - Product Requirements.

2.03 COATINGS

A. Penetrating Sealer: Transparent, nonyellowing, water- or solvent-based coating.
   1. Composition: Penetrating and stain-resistant sealer.
      a. Products:
         1) Ameripolish, Inc; SR2 Concrete Sealer: www.ameripolish.com/#sle.
         2) Procoso Concrete Protector SB; www.prosoco.com/consolideck.
         3) SASE SPR3 Penetrating Sealer, SASE Company; www.sasecompany.com.
         4) RetroPel; Curecrete: www.curecrete.com.
         5) Substitutions: See Section 01 60 00 - Product Requirements.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that floor surfaces are acceptable to receive the work of this section.

B. Verify that flaws in concrete have been patched and joints filled with methods and materials suitable for further finishes.

3.02 GENERAL

A. Apply materials in accordance with manufacturer's instructions.

B. Burnish or lightly polish slab as required to prepare for application.

3.03 COATING APPLICATION

A. Verify that surface is free of previous coatings, sealers, curing compounds, water repellents, laitance, efflorescence, fats, oils, grease, wax, soluble salts, residues from cleaning agents, and other impediments to adhesion.

B. Protect adjacent non-coated areas from drips, overflow, and overspray; immediately remove excess material.

C. Apply coatings in accordance with manufacturer's instructions, matching approved mock-ups for color, special effects, sealing and workmanship.

3.04 PROTECTION

A. Protect installed coatings from subsequent construction operations.

B. Do not permit traffic over unprotected floor surface.

END OF SECTION 03 35 11

SECTION 10 99 00
MISCELLANEOUS SPECIALTIES

PART 1 GENERAL

1.01 SUMMARY

A. Section Includes: Flush-mount Corner guards.

B. Related Requirements: Sections 03 30 00 Concrete, 06 10 00 Rough Carpentry, 09 84 13 Acoustical Wall Panels and 09 91 00 Painting.

1.02 SUBMITTALS

A. Product Data: Submit written technical information and installation instructions which demonstrate that products comply with contract documents.

B. Shop Drawings: Submit shop drawings describing materials, fabrication, and installation. Include details of support, anchorage, and accessories.

C. Samples: Submit manufacturer's full range of available finish material, color and texture samples for selection.

D. Contract Closeout Submittals: Submit maintenance data.

1.03 QUALITY ASSURANCE

A. Installer qualifications: A company with installation experience with units similar to those included in this section and authorized or licensed by manufacturer.

1.04 DELIVERY, STORAGE, AND HANDLING

A. Follow manufacturer's directions for handling products and materials from factory to project site.

B. Packing and Shipping: Pack materials for delivery in manufacturer's standard coverings to protect products from damage during shipping and storage.

C. Storage and Protection: After delivery and before installation store panels on edge and above floor on blocking in a dry and ventilated area, protected from high humidity and temperature extremes.

1.05 COORDINATION

A. Provide coordination data to affected installers of related work. Include location template drawings for items supported by or anchored to substrate construction.

PART 2 PRODUCTS

2.01 MATERIALS

A. Corner Guards, unless otherwise indicated:
   1. Typical at all drywall outside corners.
   2. Extruded vinyl flush-mount corner guard 3"x3" 90 degree full height – reference drawings for ceiling heights.
   3. Texture to have a pebblette texture.

B. Accessories: Provide all mounting hardware, accessories and trim necessary for complete installation of miscellaneous specialties.

PART 3 EXECUTION

3.01 EXAMINATION

A. Examine substrates on which work will be installed and other conditions affecting the work of this Section.

B. Correct unacceptable substrates and conditions before start of installation.

3.02 INSTALLATION

A. Complete substrate construction and adjacent finish surfaces, including painting, before start of installation.

B. Install product in accordance with manufacturer's written directions.

C. Install in configurations indicated on the drawings.

D. Corner Guards: Install at all interior gypsum drywall external corners.

E. Correction of Defective Work: Replace broken, chipped, deformed, or otherwise damaged components.

3.03 CLEANING

A. Clean installed work of this section and adjacent surfaces before final acceptance. Use cleaning materials and methods recommended by partition manufacturer.

B. Remove work debris from project site.

C. Protect against damage or dirt after installation and until date of substantial completion.

END OF SECTION 10 99 00

SECTION 13 34 19
METAL BUILDING SYSTEMS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Manufacturer-engineered, shop-fabricated structural steel building frame.
   1. All exterior metal shall be galvalume finished as specified and all exterior fasteners shall be corrosion resistant.

1.02 REFERENCE STANDARDS

A. AISC 303 - Code of Standard Practice for Steel Buildings and Bridges; 2022, with Errata (2025).

B. AISC 360 - Specification for Structural Steel Buildings; 2022, with Errata (2025).

C. ASTM A36/A36M - Standard Specification for Carbon Structural Steel; 2019.

D. ASTM A53/A53M - Standard Specification for Pipe, Steel, Black and Hot-Dipped, Zinc-Coated, Welded and Seamless; 2024.

E. ASTM A307 - Standard Specification for Carbon Steel Bolts, Studs, and Threaded Rod 60 000 PSI Tensile Strength; 2021.

F. ASTM A500/A500M - Standard Specification for Cold-Formed Welded and Seamless Carbon Steel Structural Tubing in Rounds and Shapes; 2023.

G. ASTM A501/A501M - Standard Specification for Hot-Formed Welded and Seamless Carbon Steel Structural Tubing; 2021.

H. ASTM A529/A529M - Standard Specification for High-Strength Carbon-Manganese Steel of Structural Quality; 2026.

I. ASTM A568/A568M - Standard Specification for Steel, Sheet, Carbon, Structural, and High-Strength, Low-Alloy, Hot-Rolled and Cold-Rolled, General Requirements for; 2025a.

J. ASTM A572/A572M - Standard Specification for High-Strength Low-Alloy Columbium-Vanadium Structural Steel; 2025.

K. ASTM B209/B209M - Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate; 2021a.

L. ASTM C920 - Standard Specification for Elastomeric Joint Sealants; 2018 (Reapproved 2024).

M. ASTM C991 - Standard Specification for Flexible Fibrous Glass Insulation for Metal Buildings; 2025a.

N. ASTM C1107/C1107M - Standard Specification for Packaged Dry, Hydraulic-Cement Grout (Nonshrink); 2020.

O. AWS A2.4 - Standard Symbols for Welding, Brazing, and Nondestructive Examination; 2020.

P. AWS D1.1/D1.1M - Structural Welding Code - Steel; 2025, with Amendment (2026).

Q. MBMA - Metal Roofing Systems Design Manual; 2012.

R. MBMA (MBSM) - Metal Building Systems Manual; 2024.

1.03 SUBMITTALS

A. See Section 01 30 00 - Administrative Requirements for submittal procedures.

B. Product Data: Provide data on profiles, component dimensions, fasteners.

C. Shop Drawings: Indicate assembly dimensions, locations of structural members, connections and attachments; wall and roof system dimensions, panel layout, general construction details, anchors and methods of anchorage, _____, and installation; framing anchor bolt settings, sizes, locations from datum, and foundation loads; indicate welded connections with AWS A2.4 welding symbols; indicate net weld lengths; provide professional seal and signature.

D. Samples: For factory-applied color finishes.

E. Letter of Design Certification: Signed and sealed by a qualified professional engineer. Include the following:
   1. Name and location of Project.
   2. Order number.
   3. Name of manufacturer.
   4. Name of Contractor.
   5. Building dimensions and roof slope.
   6. Indicate compliance with AISC and AISI standards.
   7. Governing building code and year of edition.
   8. Design loads and load combinations.
   9. Building-use category and its effect on load importance factors.
   10. Statement that metal building system and components were designed and produced in an AISC-Certified Facility by an AISC-Certified Manufacturer.

F. Certification that roof will remain watertight at slopes indicated.

G. Surveys: Show final elevations and locations of major members. Engage a qualified engineer or land surveyor to perform surveys and certify their accuracy.

1.04 QUALITY ASSURANCE

A. System Performance Requirements: Provide a complete, integrated set of metal building system manufacturer's standard mutually dependent components and assemblies that form a metal building system capable of withstanding structural and other loads, thermally induced movement, and exposure to weather without failure or infiltration of water into building interior. Include primary and secondary framing, roof panels, supporting members for exterior wall and canopies, and accessories complying with requirements indicated.
   1. Structure compliant with International Building Code (IBC), latest edition approved by authorities having jurisdiction.
   2. Metal Building System Design: Of size, spacing, slope, and spans indicated.
   3. Structural Performance: Engineer metal building systems according to procedures in MBMA 's "Low Rise Building Systems Manual".
   4. Thermal Movements: Provide metal building roof and wall panel systems that allow for thermal movements resulting from maximum change (range) in ambient and surface temperatures.
   5. Wind-Uplift Resistance: Reference Structural Documents.

B. Regulatory Requirements: Fabricate and label structural framing to comply with special inspection requirements at point of fabrication for welding and other connections required by authorities having jurisdiction.

C. Coordinate size and location of concrete foundations and casting of anchor-bolt inserts into foundation walls and footings. Concrete, reinforcement, and formwork requirements are specified in Division 3 Section "Cast-in-Place Concrete".

1.05 WARRANTY

A. See Section 01 78 00 - Closeout Submittals for additional warranty requirements.

B. Provide 10 year manufacturer warranty for covering the cost of labor and materials to repair or replace pre-engineered building systems or components which are found to be defective or nonconforming in materials or workmanship.. Coverage shall include, but not be limited to, the following:
   1. Failure for roof to remain watertight, 2-years.
   2. Leaking, rupture, rusting, structural failure or perforation of roof panels and accessories, including panels, gutters, downspouts, trim and accessories, 2-years.

C. Provide manufacturer's 20-years warranty for the panel and trim finish coating system, covering blistering, peeling, cracking, flaking, checking, chipping, fading, and chalking.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Metal Buildings Systems:
   1. Robert S. Henry Company
   2. Rigid Building Systems
   3. Alliance Steel
   4. Mid-West Steel Building Company
   5. USA (United Steel of America)

2.02 ASSEMBLIES

A. Single span rigid frame.

B. Primary Framing: Rigid frame of rafter beams and columns, canopy beams, and wind bracing.

C. Secondary Framing: Purlins, and other items detailed.

2.03 PERFORMANCE REQUIREMENTS

A. Installed Thermal Resistance of Wall System: R-value of 19 (RSI-value of ____).

B. Installed Thermal Resistance of Roof System: R-value of 30 (RSI-value of ____).

C. Provide drainage to exterior for water entering or condensation occurring within wall or roof system.

D. Permit movement of components without buckling, failure of joint seals, undue stress on fasteners or other detrimental effects, when subject to temperature range of ____ degrees F (____ degrees C).

2.04 MATERIALS

A. Structural-Steel Shapes: ASTM A36/A36M or ASTM A529/A529M .

B. Steel Plate, Bar, or Strip: ASTM A529/A529M , ASTM A570/A570M, or ASTM A572/A572M ; 50,000-psi minimum yield strength.

C. Steel Tubing or Pipe: ASTM A500/A500M, Grade B; ASTM A501/A501M; or ASTM A53/A53M, Grade B.

D. Structural-Steel Sheet: Hot-rolled, ASTM A570/A570M, Grade 50 or Grade 55; hot-rolled, ASTM A568/A568M ; or cold-rolled, ASTM A611, structural-quality, matte (dull) finish.

E. Aluminum Sheet: Coil-coated sheet, ASTM B209/B209M , alloy as standard with manufacturer, with temper as required to suit forming operations and structural performance required.

F. Non-High-Strength Bolts, Nuts, and Washers: ASTM A307 , Grade A (ASTM F568M, Property Class 4.6); carbon-steel, hex-head bolts; carbon-steel nuts; and flat, unhardened steel washers, uncoated.

G. High-Strength Bolts, Nuts, and Washers: ASTM A325 (ASTM A325M), Type 1, heavy hex steel structural bolts, heavy hex carbon-steel nuts, and hardened carbon-steel washers, uncoated.

H. Fasteners Exposed to Exterior: factory-coated steel fasteners complying with corrosion-resistance provisions in FMG 4470, designed for fasteners to substrate.

I. Anchor Rods, Bolts, Nuts, and Washers: As follows:
   1. Unheaded Rods: ASTM A36/A36M .
   2. Unheaded Rods: ASTM A572/A572M , Grade 50.
   3. Headed Bolts: ASTM A307 , Grade A (ASTM F568, Property Class 4.6); carbon-steel, hex-head bolts; and carbon-steel nuts.
   4. Headed Bolts: ASTM A325 (ASTM A325M), Type 1, heavy hex steel structural bolts and heavy hex carbon-steel nuts.
   5. Headed Bolts: ASTM A490 (ASTM A490M). Type 1, heavy hex steel structural bolts and heavy hex carbon-steel nuts.
   6. Washers: ASTM A36/A36M .

J. Primer: SSPC-Paint 25; red iron oxide, zinc oxide, raw linseed oil and alkyd primer.

K. Sealant Tape: Pressure-sensitive, 100 percent solids, gray polyisobutylene compound sealant tape with release-paper backing; ½-inch wide and 1/8-inch thick.

L. Joint Sealant: ASTM C920 ; one-part elastomeric polyurethane, polysulfide, or silicone-rubber sealant; of type, grade, class, and use classifications required to seal joints in panels and remain weathertight; and as recommended by metal building system manufacturer.

2.05 INSULATION MATERIALS

A. Vinyl Faced Glass-Fiber-Blacket Insulation: Thermal insulation, complying with ASTM C991 , Type II, of 0.5-lb/cu. ft. density, 6" thick (R30), with a flame-spread rating of 25 or less, and 2-inch- wide, continuous, vapor-tight edge tabs.

2.06 MISCELLANEOUS MATERIALS

A. Bituminous Coating: Cold-applied asphalt mastic, SSPC-Paint 12, compounded for 15-mil dry film thickness per coat.

B. Nonmetallic, Shrinkage-Resistant Grout: Premixed, nonmetallic, noncorrosive, non-staining grout, complying with ASTM C1107/C1107M, of consistency suitable for application.

C. Finish Painting: Refer to Division 9 Section "Painting".

2.07 STRUCTURAL FRAMING

A. Manufacturer's standard framing designed to withstand required loads and specified requirements and as follows:

1. Fabrication: Shop-fabricate framing components to indicated size and section with baseplates, bearing plates, stiffeners, and other items required for erection welded into place. Cut, form, punch, drill, and weld framing for bolted field assembly. Shop prime with specified primer after fabrication.
   a. Tolerances: Comply with MBMA 's "Low Rise Building Systems Manual": Chapter IV, Section 9, "fabrication and Erection Tolerances".
2. Primary Framing: Includes transverse frames; rafter, rake, and canopy beams; sidewall, intermediate, end-wall, and corner columns; and wind bracing.
   a. Frames: I-shaped frame sections fabricated from shop-welded, built-up steel plates or structural-steel shapes.
   b. Frame Configuration: As indicated.
3. End-Wall and Corner Columns: I-shaped straight shaft sections fabricated from structural-steel shapes; shop-welded, built-up steel plates; or C-shaped, cold-formed, structural-steel sheet; with minimum thickness of 0.0747 inch (1.9 mm).
4. End-Wall Rafters: C-shaped, cold-formed, structural-steel sheet; with minimum thickness of 0.0598 inch (1.52 mm)
5. Secondary Framing: Fabricate from cold-formed, structural-steel sheet or roll-formed, metallic-coated steel sheet prepainted with coil coating, unless otherwise indicated, to comply with the following:
   a. Purlins: C- or Z-shaped sections; fabricated from minimum 0.0598-inch- thick steel sheet, built-up steel plates, or structural-steel shapes; minimum 2-1/2-inch- wide flanges; depth as indicated.
   b. Eave Struts: Unequal-flange, C-shaped sections; fabricated from 0.0598-inch- thick steel sheet, built-up steel plates, or structural-steel shapes.
   c. Flange and Sag Bracing: Minimum 1-5/8-by-1-1/8-inch structural-steel angles, with a minimum thickness of 0.0598 inch (1.52 mm) .
   d. Base or Sill Angles: Minimum 3-by-2-by-0.0747-inch zinc-coated (galvanized) steel sheet.
   e. Purlin Clips: Minimum 0.0747-inch- thick, zinc-coated (galvanized) steel sheet.
   f. Secondary End-Wall Framing: Manufacturer's standard sections fabricated from minimum 0.0747-inch- thick, zinc-coated (galvanized) steel sheet.

g. Framing for Openings: Channel shapes; fabricated from minimum 0.0598-inch- thick, cold-formed, structural-steel sheet or structural-steel shapes. Frame head and jamb of door openings, and head, jamb, and sill of other openings.
h. Miscellaneous Structural Members: Manufacturer's standard sections fabricated from cold-formed, structural-steel sheet; built-up steel plates; or zinc-coated (galvanized) steel sheet; designed to withstand required loads.

6. Bracing: Provide adjustable wind bracing as follows:
a. Rods: ASTM A36/A36M ; ASTM A572/A572M , Grade D; or ASTM A529/A529M , Grade 50; ½-inch- diameter steel; threaded full length or threaded a minimum of 12 inch (304.8 mm) at each end.
b. Angles: Fabricated from structural-steel shapes to match primary framing, of size required to withstand design loads.

2.08 ROOF PANELS

A. Panels complying with the following:
1. Standing-Seam Flat Roof Panels complying with Section07 41 13 .
2. Roof Panel Accessories: Provide components required for a complete roof panel assembly. Match materials and finishes or roof panels.

2.09 LINER, FASCIA AND SOFFIT PANELS

A. Panels complying with the following:
1. Liner, Fascia and Soffit Panels complying with Section 07 42 13 .

2.10 DOORS AND FRAMES

A. Personnel Doors: Refer to Division 8 Section "Steel Doors and Frames".

B. Overhead Sectional Doors: Refer to Division 8 Section "Overhead Coiling Doors".

2.11 WINDOWS

A. Aluminum Windows: Refer to Division 8 Section "Glazed Systems".

2.12 ACCESSORIES

A. Metal building system manufacturer's standard units, fabricated from galvalume sheet pre-painted with coil coating, of thickness indicated; in same finish as roof panels.
1. Fasteners: Provide fasteners with heads matching color of roof or wall sheets by means of plastic caps or factory-applied coating.
2. Flashing and Trim: 0.0179-inch metal thickness. Provide flashing and trim as required to seal against weather and to provide finished appearance.
3. Gutters and Downspouts: 0.0179-inch metal thickness, sized according to SMACNA's "Architectural Sheet Metal Manual". Furnish gutter supports spaced 36 inch (914.4 mm) o.c. fabricated from same metal as gutters. Finish gutters and downspouts to match roof fascia and rake trim.
a. Tie downspouts into underground drainage.
4. Louvers: Refer to Division 10 Section "Louvers".
5. Closures: Closed-cell, laminated polyethylene; minimum 1-inch thick, flexible closure strips; cut or pre-molded to match roof and wall panel profile.
6. Pipe Flashing: Pre-molded, EPDM pipe collar with flexible aluminum ring bonded to base.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that foundation, floor slab, mechanical and electrical utilities, and placed anchors are in correct position. Verify compliance with requirements and metal building system manufacturer's tolerances.

3.02 ERECTION - METAL BUILDING SYSTEM

A. Erect metal building system according to manufacturer's written instructions, erection drawings, and the following:

1. Baseplates and Bearing Plates: Clean concrete and masonry bearing surfaces and roughen surfaces before setting baseplates and bearing plates.
   a. Set baseplates and bearing plates for structural members on wedges, shims, or setting nuts.
   b. Tighten anchor bolts after supported members have been positions and plumbed.
   c. Pack grout solidly between bearing surfaces and plates so no voids remain.

3.03 ERECTION - FRAMING

A. Erect framing in accordance with AISC 360.

B. Provide for erection and wind loads. Provide temporary bracing to maintain structure plumb and in alignment until completion of erection and installation of permanent bracing. Locate braced bays as indicated.

C. Align and adjust framing members before permanently fastening to compensate for discrepancies in elevations and alignment. Erect framing true to line, level, plumb, rigid, and secure.

D. Set column base plates with non-shrink grout to achieve full plate bearing.

E. Do not field cut, drill or alter structural members without approval from metal building system manufacturer's professional engineer.

F. Maintain structural stability of frame during erection.

G. After erection, prime welds, abrasions, and surfaces not shop primed.

H. Primary Framing and End Walls: Level baseplates to a true even plane with full bearing to supporting structures, set with double-nutted anchor bolts. Use grout to obtain uniform bearing and to maintain a level base-line elevation. Moist cure grout for not less than seven days after placement.
   1. Make field connections using high-strength bolts. Tighten bolts by turn-of-the-nut method.

I. Secondary Framing: Fasten secondary framing to primary framing using clips with field connections using non-high-strength bolts. Hold rigidly to a straight line by sag rods.
   1. Provide supplemental framing at entire perimeter of openings, including doors, windows, louvers, ventilators, and other penetrations of roof and walls.

J. Bracing: Install bracing in roof and sidewalls where indicated on erection drawings.

K. Framing for Openings: Provide shapes of proper design and size to reinforce openings and to carry loads and vibrations imposed, including equipment furnished under mechanical and electrical work. Securely attach to building structural frame.

L. Provide all framing for canopies.

M. Provide connections/bracing/framing to support lateral loads imposed on exterior walls.

3.04 ERECTION - WALL AND ROOF PANELS

A. Roof Panel Installation: Provide roof panels of full length from eave to rigde when possible. Install panels perpendicular to purlins. Rigidity fasten eave end of roof panels and allow ridge end free movement due to thermal expansion and contraction. Predrill panels. Fasten roof panels to purlins at location and spacing determined by manufacturer. Flash and seal roof panels with weather closures at eaves, rakes, and at perimeter of all openings.
   1. Standing-Seam Roof Panels: Fasten roof panels to purlins with concealed clips at each standing-seam joint. Install clips over top of insulation.
   2. Reference Section 07 41 13 - Metal Roof Panels for product information and execution.

B. Install in accordance with manufacturer's instructions.

C. Exercise care when cutting prefinished material to ensure cuttings do not remain on finish surface.

D. Fasten cladding system to structural supports, aligned level and plumb.

E. Locate end laps over supports. End laps minimum 2 inches (50 mm). Place side laps over bearing.

F. Provide expansion joints where indicated.

G. Use concealed fasteners.

H. Install sealant and gaskets, providing weather tight installation.

3.05 ERECTION - FASCIA AND SOFFIT PANEL

A. Provide panels full width of fasciae and soffits. Install panels perpendicular to support framing.
   1. Fascia Panels: Align bottom of panels. Flash and seal panels with weather closures where fascia meet soffits, along lower panel edges, and at perimeter of all openings.
   2. Soffit Panels: Flash and seal panels with weather closures where soffit meets walls and at perimeter of all openings.
   3. Reference Section 07 42 93 - Soffit Panels for product information and execution.

3.06 ERECTION - BLANKET INSULATION

A. Install insulation concurrently with panel installation, according to manufacturer's written instructions and as follows. Install blankets straight and true in one-piece lengths. Set vapor-retarder-faced units with vapor retarder to warm side of construction, unless otherwise indicated. Do not obstruct ventilation spaces, except for firestopping. Tape joints and ruptures in vapor retarder and seal each continuous area of insulation to surrounding construction to ensure airtight installation. Comply with the following installation method:
   1. Over-Framing Installation: Extend insulation and vapor retarder over and perpendicular to top flange of secondary framing members. Hold in place by panels fastened to secondary framing.
   2. Over-Purlin-with-Spacer-Block Installation: Extend insulation and vapor retarder over and perpendicular to top flange of secondary framing members. Install layer of filler insulation over first layer to fill space formed by roof panel standoffs. Hold in place by panels fastened to standoffs.
   3. Retainer Strips: Install retainer strips at each longitudinal insulation joint, straight and taut, nesting with secondary framing to hold insulation in place.

3.07 INSTALLATION - ACCESSORY COMPONENTS IN WALL SYSTEM

A. Install door frames, doors, overhead doors, windows and glass, gutters, downspouts, ventilators, louvers, and and other accessories in accordance with manufacturer's instructions and SMACNA's "Architectural Sheet Metal Manual", with positive anchorage to building and weathertight mounting.

B. Coordinate installation with flashings and other components.

C. Provide for thermal expansion of metal units; conceal fasteners where possible and set units true to line and level as indicated.

D. Tie downspouts to underground drainage system indicated.

3.08 TOLERANCES

A. Structural-Steel Erection Tolerances: Comply with erection tolerance limits of AISC 303 , "Code of Standard Practice for Steel Buildings and Bridges".

3.09 SOURCE AND FIELD QUALITY CONTROL

A. Owner will engage a qualified independent testing agency to perform quality-control testing and special inspections, and to prepare test reports.
   1. Special inspections of shop fabrications will not be required when fabrication is performed by a fabricator registered and approved by authorities having jurisdiction to perform such work without special inspection.
   2. Shop- and field-bolted connections will be visually inspected.

3. Shop- and field-bolted connections will be trusted and inspected according to RCSC's "Allowable Stress Design Specification for Structural Joints Using ASTM A 325 or A 490 Bolts".
4. Shop- and field-bolted connections will be tested and inspected according to RCSC's "Load and Resistance Factor Design Specification for Structural Joints Using ASTM A 325 or A 490 Bolts".
5. In addition to visual inspection, shop welding will be inspected and tested according to AWS D1.1/D1.1M.

B. Metal building manufacturer's representative to provide periodic onsite inspections throughout construction and shall provide written documentation to owner stating that the building has been constructed as designed. Inspection shall include, but not be limited to the following: main frame erection, secondary framing erection and roof panel installation.

C. General Contractor to engage a qualified independent testing agency to perform air leakage testing and special inspections, and to prepare test reports. Testing to include either blower door or smoke testing.

3.10 ADJUSTING AND DAMAGE

A. After completing installation, including work by other trades, lubricated, test, and adjust doors, windows, and accessory units to operate easily, free from warp, twist, or distortion.

B. Damaged Panels: Replace panels that have been damaged or have deteriorated beyond successful repair by finish touchup or similar minor repair procedures.

C. Touchup Painting: Immediately after erection, clean, prepare, and prime or re-prime welds, bolted connections, and abraded surfaces of prime-painted primary and secondary framing, accessories, and bearing plates. Repair damaged galvanized coatings on exposed surfaces with galvanized repair paint.
1. Repair damaged coil coating on exposed surfaces with touch-up paint approved by coating manufacturer for touch-up use.

3.11 WIND LOAD CERTIFICATION

A. Provide certification from an independent structural engineer in good standing certifying that the metal building system has been designed and constructed to comply with the more stringent of building code specified wind load or as noted on drawings.

END OF SECTION 13 34 19

SECTION 26 02 00

BASIC MATERIALS AND METHODS FOR ELECTRICAL

PART 1 - GENERAL

1.1 GENERAL REQUIREMENTS

A. The requirements of the General Conditions and Supplementary Conditions apply to all Work herein.

B. The Contract Drawings indicate the extent and general arrangement of the systems. If any departure from the Contract Drawings are deemed necessary by the Contractor, details of such departures and the reasons therefore, shall be submitted to the Architect for approval as soon as practicable. No such departures shall be made without the prior written approval of the Architect.

1.2 SCOPE OF WORK

A. The Work included under this Contract consists of the furnishing and installation of all equipment and material necessary and required to form the complete and functioning systems in all of its various phases, all as shown on the accompanying Drawings and/or described in these Specifications. The contractor shall review all pertinent drawings, including those of other contracts prior to commencement of Work.

B. This Division requires the furnishing and installing of all items Specified herein, indicated on the Drawings or reasonably inferred as necessary for safe and proper operation; including every article, device or accessory (whether or not specifically called for by item) reasonably necessary to facilitate each system's functioning as indicated by the design and the equipment specified. Elements of the work include, but are not limited to, materials, labor, supervision, transportation, storage, equipment, utilities, all required permits, licenses and inspections. All work performed under this Section shall be in accordance with the Project Manual, Drawings and Specifications and is subject to the terms and conditions of the Contract.

C. The approximate locations of Electrical items are indicated on the Drawings. These Drawings are not intended to give complete and accurate details in regard to location of outlets, apparatus, etc. Exact locations are to be determined by actual measurements at the building, and will in all cases be subject to the Review of the Owner or Engineer, who reserves the right to make any reasonable changes in the locations indicated without additional cost to the Owner.

D. Items specifically mentioned in the Specifications but not shown on the Drawings and/or items shown on Drawings but not specifically mentioned in the Specifications shall be installed by the Contractor under the appropriate section of work as if they were both specified and shown.

E. All discrepancies within the Contract Documents discrepancies between the Contract Documents and actual job-site conditions shall be reported to the Owner or Engineer so that they will be resolved prior to the bidding, where this cannot be done at least 7 working days prior to bid; the greater or more costly of the discrepancy shall be bid. All labor and materials required to perform the work described shall be included as part of this Contract.

F. It is the intention of this Section of the Specifications to outline minimum requirements to furnish the Owner with a turn-key and fully operating system in cooperation with other trades.

G. It is the intent of the above "Scope" to give the Contractor a general outline of the extent of the Work involved; however, it is not intended to include each and every item required for the Work. Anything omitted from the "Scope" but shown on the Drawings, or specified later, or necessary for a complete and functioning electrical system shall be considered a part of the overall "Scope".

H. The Contractor shall rough-in fixtures and equipment furnished by others from rough-in and placement drawings furnished by others. The Contractor shall make final connection to fixtures and equipment furnished by others.

I. Contractor shall participate in the commissioning process; including but not limited to meeting attendance, completion of checklists and participation in functional testing.

1.3 RELATED SECTIONS

A. General Conditions

B. Supplementary Conditions

C. Division One

1.4 COOPERATION WITH TRADES

A. Cooperation with trades of adjacent, related, or affected materials or operations shall be considered a part of this work in order to affect timely and accurate placing of work and bring together in proper and correct sequence, the work of such trades.

1.5 REFERENCES

A. National Electrical Code (NEC)

B. American Society for Testing and Materials (ASTM)

C. Underwriter's Laboratories, Inc. (UL)

D. Insulated Cable Engineer's Association (ICEA).

E. National Electrical Manufacturer's Association (NEMA).

F. Institute of Electrical and Electronic's Engineers (IEEE).

G. American National Standards Institute (ANSI).

H. National Fire Protection Association (NFPA).

I. International Energy Conservation Code (IECC).

1.6 COMPLETE FUNCTIONING OF WORK

A. All work fairly implied as essential to the complete functioning of the electrical systems shown on the Drawings and Specifications shall be completed as part of the work of this Division unless specifically stated otherwise. It is the intention of the Drawings and Specifications to establish the types of the systems, but not set forth each item essential to the functioning of the system. In case of doubt as to the work intended, or in the event of amplification or clarification thereof, the Contractor shall call upon the Architect for supplementary instructions, Drawings, etc.

B. Contractor shall review all pertinent Drawings and adjust his work to all conditions shown there on. Discrepancies between Plans, Specifications, and actual field conditions shall be brought to the prompt attention of the Architect.

1. Approximate location of transformers, feeders, branch circuits, outlets, lighting and power panels, outlets for special systems, etc., are indicated on the Drawings. However, the Drawings, do not give complete and accurate detailed locations of such outlets, conduit runs, etc., and exact locations must be determined by actual field measurement. Such locations will, at all times, be subject to the approval of the Architect.
2. Communicate with the Architect and secure his approval of any outlet (light fixture, receptacle, switch, etc.) location about which there may be the least question. Outlets obviously placed in a location not suitable to the finished room or without specific approval, shall be removed and relocated when so directed by the Architect. Location of light fixtures shall be coordinated with reflected ceiling plans.

C. Additional coordination with mechanical contractor may be required to allow adequate clearances of mechanical equipment, fixtures and associated appurtenances. Contractor to notify Architect and Engineer of unresolved clearances, conflicts or equipment locations.

1.7 SCHEMATIC NATURE OF CONTRACT DOCUMENTS

A. The contract documents are schematic in nature in that they are only to establish scope and a minimum level of quality. They are not to be used as actual working construction drawings. The actual working construction drawings shall be the approved shop drawings.

1.8 CONTRACTOR'S QUALIFICATIONS

A. An approved contractor for the work under this division shall be:

1. A specialist in this field and have the personnel, experience, training, and skill, and the organization to provide a practical working system.
2. Able to furnish evidence of having contracted for and installed not less than 3 systems of comparable size and type that have served their Owners satisfactorily for not less than 3 years.

3. Perform work by persons qualified to produce workmanship of specified quality. Persons performing electrical work shall be required to be licensed. Onsite supervision, journeyman shall have minimum of journeyman license. Helpers, apprentices shall have minimum of apprentice license.

1.9 DATE OF FINAL ACCEPTANCE

A. The date of final acceptance shall be the date of owner occupancy, or the date all punch list items have been completed or final payment has been received. Refer to Division One for additional requirements.

B. The date of final acceptance shall be documented in writing and signed by the architect, owner and contractor.

1.10 DEFINITIONS AND SYMBOLS

A. General Explanation: A substantial amount of construction and Specification language constitutes definitions for terms found in other Contract Documents, including Drawings which must be recognized as diagrammatic and schematic in nature and not completely descriptive of requirements indicated thereon. Certain terms used in Contract Documents are defined generally in this article, unless defined otherwise in Division 1.

B. Definitions and explanations of this Section are not necessarily either complete or exclusive, but are general for work to the extent not stated more explicitly in another provision of the Contract Documents.

C. Indicated: The term "Indicated" is a cross-reference to details, notes or schedules on the Drawings, to other paragraphs or schedules in the Specifications and to similar means of recording requirements in Contract Documents. Where such terms as "Shown", "Noted", "Scheduled", "Specified" and "Detailed" are used in lieu of "Indicated", it is for the purpose of helping the reader locate cross-reference material, and no limitation of location is intended except as specifically shown.

D. Directed: Where not otherwise explained, terms such as "Directed", "Requested", "Accepted", and "Permitted" mean by the Architect or Engineer. However, no such implied meaning will be interpreted to extend the Architect's or Engineer's responsibility into the Contractor's area of construction supervision.

E. Reviewed: Where used in conjunction with the Engineer's response to submittals, requests for information, applications, inquiries, reports and claims by the Contractor the meaning of the term "Reviewed" will be held to limitations of Architect's and Engineer's responsibilities and duties as specified in the General and Supplemental Conditions. In no case will "Reviewed" by Engineer be interpreted as a release of the Contractor from responsibility to fulfill the terms and requirements of the Contract Documents.

F. Furnish: Except as otherwise defined in greater detail, the term "Furnish" is used to mean supply and deliver to the project site, ready for unloading, unpacking, assembly, installation, etc., as applicable in each instance.

G. Install: Except as otherwise defined in greater detail, the term "Install" is used to describe operations at the project site including unloading, unpacking, assembly, erection, placing, anchoring, applying, working to dimension, finishing, curing, protection, cleaning and similar operations, as applicable in each instance.

H. Provide: Except as otherwise defined in greater detail, the term "Provide" is used to mean "Furnish and Install", complete and ready for intended use, as applicable in each instance.

I. Installer: Entity (person or firm) engaged by the Contractor or its subcontractor or Sub-contractor for performance of a particular unit of work at the project site, including unloading, unpacking, assembly, erection, placing, anchoring, applying, working to dimension, finishing, curing, protection, cleaning and similar operations, as applicable in each instance. It is a general requirement that such entities (Installers) be expert in the operations they are engaged to perform.

J. Imperative Language: Used generally in Specifications. Except as otherwise indicated, requirements expressed imperatively are to be performed by the Contractor. For clarity of reading at certain locations, contrasting subjective language is used to describe responsibilities that must be fulfilled indirectly by the Contractor, or when so noted by other identified installers or entities.

K. Minimum Quality/Quantity: In every instance, the quality level or quantity shown or specified is intended as minimum quality level or quantity of work to be performed or provided. Except as otherwise specifically indicated, the actual work may either comply exactly with that minimum (within specified tolerances), or may exceed that minimum within reasonable tolerance limits. In complying with requirements, indicated or scheduled numeric values are either minimums or maximums as noted or as appropriate for the context of the requirements. Refer instances of uncertainty to Owner or Engineer via a request for information (RFI) for decision before proceeding.

L. Abbreviations and Symbols: The language of Specifications and other Contract Documents including Drawings is of an abbreviated type in certain instances, and implies words and meanings which will be appropriately interpreted. Actual word abbreviations of a self-explanatory nature have been included in text of Specifications and Drawings. Specific abbreviations and symbols have been established, principally for lengthy technical terminology and primarily in conjunction with coordination of Specification requirements with notations on Drawings and in Schedules. These are frequently defined in Section at first instance of use or on a Legend and Symbol Drawing. Trade and industry association names and titles of generally recognized industry standards are frequently abbreviated. Singular words will be interpreted as plural and plural words will be interpreted as singular where applicable and where full context of Contract Documents so indicate. Except as otherwise indicated, graphic symbols and abbreviations used on Drawings and in Specifications are those recognized in construction industry for indicated purposes. Where not otherwise noted symbols and abbreviations are defined by 1993 ASHRAE Fundamentals Handbook, chapter 34 "Abbreviations and Symbols", ASME and ASPE published standards.

1.11 DELIVERY, STORAGE, AND HANDLING

A. Deliver products to the project properly identified with names, model numbers, types, grades, compliance labels, and other information needed for identification.

B. Deliver products to the project at such time as the project is ready to receive the equipment, pipe or duct properly protected from incidental damage and weather damage.

C. Damaged equipment shall be promptly removed from the site and new, undamaged equipment shall be installed in its place promptly with no additional charge to the Owner.

1.12 SUBMITTALS

A. Coordinate with Division 01 for submittal timetable requirements, unless noted otherwise within thirty (30) days after the Contract is awarded. The Contractor shall submit an electronic copy of a complete set of shop drawings and complete data covering each item of equipment or material. The submittal of each item requiring a submittal must be received by the Architect or Engineer within the above thirty day period. The Architect or Engineer shall not be responsible for any delays or costs incurred due to excessive shop drawing review time for submittals received after the thirty (30) day time limit. The Architect and Engineer will retain a copy of all shop drawings for their files. All literature pertaining to items subject to Shop Drawing submittal shall be submitted at one time. Submittals shall be placed in one electronic file in PDF 8.0 format and bookmarked for individual specification sections. Individual electronic files of submittals for individual specifications shall not be permitted. Each submittal shall include the following items:

1. A cover sheet with the names and addresses of the Project, Architect, MEP Engineer, General Contractor and the Subcontractor making the submittal. The cover sheet shall also contain the section number covering the item or items submitted and the item nomenclature or description.
2. An index page with a listing of all data included in the Submittal.
3. A list of variations page with a listing all variations, including unfurnished or additional required accessories, items or other features, between the submitted equipment and the specified equipment. If there are no variations, then this page shall state "NO VARIATIONS". Where variations affect the work of other Contractors, then the Contractor shall certify on this page that these variations have been fully coordinated with the affected Contractors and that all expenses associated with the variations will be paid by the submitting Contractor. This page will be signed by the submitting Contractor.
4. Equipment information including manufacturer's name and designation, size, performance and capacity data as applicable. All applicable Listings, Labels, Approvals and Standards shall be clearly indicated.
5. Dimensional data and scaled drawings as applicable to show that the submitted equipment will fit the space available with all required Code and maintenance clearances clearly indicated and labeled at a minimum scale of 1/4" = 1'-0", as required to demonstrate that the alternate or substituted product will fit in the space available.
6. Identification of each item of material or equipment matching that indicated on the Drawings.
7. Sufficient pictorial, descriptive and diagrammatic data on each item to show its conformance with the Drawings and Specifications. Any options or special requirements or accessories shall be so indicated. All applicable information shall be clearly indicated with arrows or another approved method.
8. Additional information as required in other Sections of this Division.

9. Certification by the General Contractor and Subcontractor that the material submitted is in accordance with the Drawings and Specifications, signed and dated in long hand. Submittals that do not comply with the above requirements shall be returned to the Contractor and shall be marked "REVISE AND RESUBMIT".

B. Refer to Division 1 for additional information on shop drawings and submittals.

C. Equipment and materials submittals and shop drawings will be reviewed for compliance with design concept only. It will be assumed that the submitting Contractor has verified that all items submitted can be installed in the space allotted. Review of shop drawings and submittals shall not be considered as a verification or guarantee of measurements or building conditions.

D. Where shop drawings and submittals are marked "REVIEWED", the review of the submittal does not indicate that submittals have been checked in detail nor does it in any way relieve the Contractor from his responsibility to furnish material and perform work as required by the Contract Documents.

E. Shop drawings shall be reviewed and returned to the Contractor with one of the following categories indicated:

1. REVIEWED: Contractor need take no further submittal action, shall include this submittal in the O&M manual and may order the equipment submitted on.
2. REVIEWED AS NOTED: Contractor shall submit a letter verifying that required exceptions to the submittal have been received and complied with including additional accessories or coordination action as noted, and shall include this submittal and compliance letter in the O&M manual. The contractor may order the equipment submitted on at the time of the returned submittal providing the Contractor complies with the exceptions noted.
3. NOT APPROVED: Contractor shall resubmit new submittal on material, equipment or method of installation when the alternate or substitute is not approved, the Contractor will automatically be required to furnish the product, material or method named in the Specifications and/or drawings. Contractor shall not order equipment that is not approved. Repetitive requests for substitutions will not be considered.
4. REVISE AND RESUBMIT: Contractor shall resubmit new submittal on material, equipment or method of installation when the alternate or substitute is marked revise and resubmit, the Contractor will automatically be required to furnish the product, material or method named in the Specifications and/or provide as noted on previous shop drawings. Contractor shall not order equipment marked revise and resubmit. Repetitive requests for substitutions will not be considered.
5. CONTRACTOR'S CERTIFICATION REQUIRED: Contractor shall resubmit submittal on material, equipment or method of installation. The Contractor's stamp is required stating the submittal meets all conditions of the contract documents. The stamp shall be signed by the General Contractor. The submittal will not be reviewed if the stamp is not placed and signed on all shop drawings.

6. MANUFACTURER NOT AS SPECIFIED: Contractor shall resubmit new submittal on material, equipment or method of installation when the alternate or substitute is marked manufacturer not as specified, the Contractor will automatically be required to furnish the product, material or method named in the specifications. Contractor shall not order equipment where submittal is marked manufacturer not as specified. Repetitive requests for substitutions will not be considered.

F. Materials and equipment which are purchased or installed without shop drawing review shall be at the risk of the Contractor and the cost for removal and replacement of such materials and equipment and related work which is judged unsatisfactory by the Owner or Engineer for any reason shall be at the expense of the Contractor. The responsible Contractor shall remove the material and equipment noted above and replace with specified equipment or material at his own expense when directed in writing by the Architect or Engineer.

G. Shop Drawing Submittals shall be complete and checked prior to submission to the Engineer for review.

H. Furnish detailed shop drawings, descriptive literature, table of contents listing all items being submitted at the beginning of each submittal package, physical data and a specification critique for each section indicating "compliance" and/or "variations" for the following items:

1. Distribution Panelboards
2. Panelboards
3. Wiring Gutters
4. Heavy Duty Disconnect Switches
5. Lighting Fixtures
6. Lighting Contactors
7. Time Clocks
8. Lighting Control System
9. Photocells
10. Wiring Devices and Plates
11. Conduit and Fittings
12. Wire
13. Emergency Generator
14. Automatic Transfer Switches
15. Fire Alarm System
16. Surge Protection Devices (SPD)
17. Lightning Protection

I. Refer to each specification section for additional requirements.

1.13 OPERATION AND MAINTENANCE MANUALS

A. Prepare maintenance manuals in accordance with Division 1 and in addition to the requirements specified in Division 1, include the following information for equipment items:

1. Description of function, normal operating characteristics and limitations, performance curves, engineering data and tests, and complete nomenclature and commercial numbers of replacement parts.
2. Manufacturer's printed operating procedures to include start-up, break-in, and routine and normal operating instructions; regulation, control, stopping, shutdown, and emergency instructions; and summer and winter operating instructions.
3. Maintenance procedures for routine preventative maintenance and troubleshooting; disassembly, repair, and reassembly; aligning and adjusting instructions.
4. Servicing instructions and lubrication charts and schedules.

1.14 COORDINATION DRAWINGS

A. Prepare coordination drawings to a scale of 1/4"=1'-0" or larger; detailing major elements, components, and systems of mechanical equipment and materials in relationship with other systems, installations, and building components. Indicate locations where space is limited for installation and access and where sequencing and coordination of installations are of importance to the efficient flow of the Work, including (but not necessarily limited to) the following:

1. Indicate the proposed locations of pipe, duct, equipment, and other materials. Include the following:
   a. Wall and type locations.
   b. Clearances for installing and maintaining insulation.
   c. Locations of light fixtures and sprinkler heads.
   d. Clearances for servicing and maintaining equipment, including tube removal, filter removal, and space for equipment disassembly required for periodic maintenance.
   e. Equipment connections and support details.
   f. Exterior wall and foundation penetrations.
   g. Routing of storm and sanitary sewer piping.
   h. Fire-rated wall and floor penetrations.
   i. Sizes and location of required concrete pads and bases.
   j. Valve stem movement.
   k. Structural floor, wall and roof opening sizes and details.
2. Indicate scheduling, sequencing, movement, and positioning of large equipment into the building during construction.
3. Prepare floor plans, elevations, and details to indicate penetrations in floors, walls, and ceilings and their relationship to other penetrations and installations.
4. Prepare reflected ceiling plans to coordinate and integrate installations, air distribution devices, light fixtures, communication systems components, and other ceiling-mounted items.

B. This Contractor shall be responsible for coordination of all items that will affect the installation of the work of this Division. This coordination shall include, but not be limited to: voltage, ampacity, capacity, electrical and piping connections, space requirements, sequence of construction, building requirements and special conditions.

C. By submitting shop drawings on the project, this Contractor is indicating that all necessary coordination has been completed and that the systems, products and equipment submitted can be installed in the building and will operate as specified and intended, in full coordination with all other Contractors and Subcontractors.

1.15 RECORD DRAWINGS

A. Prepare Record Documents in accordance with the requirements of Division 00 and Division 01, in addition to the requirements specified in Division 26.

B. The Contractor shall maintain a separate set of clearly and legibly marked Record Drawings on the job site to record all changes and modifications, including, but not limited to the following: work details, alterations to meet site conditions, and changes made by "Change Order" notices. Mark the drawings with colored pencil(s). These shall be available for review by the Owner, Architect or Engineer during the entire construction stage.

C. The Record Drawings shall be updated concurrently as construction progresses, and in no case less frequently than a daily basis. They shall indicate accurate dimensions for all buried or concealed work, precise locations of all concealed pipe or duct, locations of all concealed valves, controls and devices and any deviations from the work shown on the Construction Documents. All dimensions shall include at least two dimensions to permanent structure points.

D. Engage the services of a Land Surveyor or Professional Engineer registered in the state in which the project is located as specified herein to record the locations and invert elevations of underground installations.

E. If the Contractor does not keep an accurate set of Record Drawings, the pay request may be altered or delayed at the request of the Architect. Delivery of Record Documents is a condition of final acceptance. Record Drawings shall be furnished in addition to Shop Drawings.

F. The Contractor shall submit an electronic copy of the record documents in PDF format and one (1) full size set of Record Drawing prints to the Architect or Engineer for review prior to scheduling the final inspection at the completion of the work. The drawings shall have the name(s) and seal(s) of the Engineer(s) removed or blanked out and shall be clearly marked and signed on each sheet as follows:

CERTIFIED RECORD DRAWINGS

DATE:

(NAME OF GENERAL CONTRACTOR)

BY: _____

(SIGNATURE)

(NAME OF SUBCONTRACTOR)

BY: _____

(SIGNATURE)

1.16 CERTIFICATIONS AND TEST REPORTS

A. Submit a detailed schedule for completion and testing of each system indicating scheduled dates for completion of system installation and outlining tests to be performed and schedule date for each test. This detailed completion and test schedule shall be submittal at least 90 days before the projected Project completion date.

B. Test result reporting forms shall be submitted for review no later than the date of the detailed schedule submitted.

C. Submit 4 copies of all certifications and test reports to the Architect or Engineer for review adequately in advance of completion of the Work to allow for remedial action as required to correct deficiencies discovered in equipment and systems.

D. Certifications and test reports to be submitted shall include, but not be limited to those items outlined in Section of Division 26.

1.17 MAINTENANCE MANUALS

A. Coordinate with Division 1 for maintenance manual requirements, unless noted otherwise bind together in “D ring type” binders by National model no. 79-883 or equal, binders shall be large enough to allow 1/4” of spare capacity. Three (3) sets of all approved shop drawing submittals, fabrication drawings, bulletins, maintenance instructions, operating instructions and parts exploded views and lists for each and every piece of equipment furnished under this Specification. All sections shall be typed and indexed into sections and ed for easy reference and shall utilize the individual specification section numbers shown in the Electrical Specifications as an organization guideline. Bulletins containing information about equipment that is not installed on the project shall be properly marked up or stripped and reassembled. All pertinent information required by the Owner for proper operation and maintenance of equipment supplied by Division 26 shall be clearly and legibly set forth in memoranda that shall, likewise, be bound with bulletins.

B. Prepare maintenance manuals in accordance with Special Project Conditions, in addition to the requirements specified in Division 26, include the following information for equipment items:

1. Identifying names, name tags designations and locations for all equipment.
2. Fault Current calculations and Coordination Study.
3. Reviewed shop drawing submittals with exceptions noted compliance letter.
4. Fabrication drawings.
5. Equipment and device bulletins and data sheets clearly highlighted to show equipment installed on the project and including performance curves and data as applicable, i.e., description of function, normal operating characteristics and limitations, performance curves, engineering data and tests, and complete nomenclature and model numbers of replacement parts.
6. Manufacturer's printed operating procedures to include start-up, break-in, and routine and normal operating instructions; regulation, control, stopping, shutdown, and emergency instructions; and summer and winter operating instructions.

7. Maintenance procedures for routine preventative maintenance and troubleshooting; disassembly, repair, and reassembly; aligning and adjusting instructions, servicing instructions and lubrication charts and schedules.
8. Equipment name plate data.
9. Wiring diagrams.
10. Exploded parts views and parts lists for all equipment and devices.
11. Color coding charts for all painted equipment and conduit.
12. Location and listing of all spare parts and special keys and tools furnished to the Owner.
13. Furnish recommended lubrication schedule for all required lubrication points with listing of type and approximate amount of lubricant required.

C. Refer to Division 1 for additional information on Operating and Maintenance Manuals.

D. Operating and Maintenance Manuals shall be turned over to the Owner or Engineer a minimum of 14 working days prior to the beginning of the operator training period.

1.18 OPERATOR TRAINING

A. The Contractor shall furnish the services of factory trained specialists to instruct the Owner's operating personnel. The Owner's operator training shall include 12 hours of onsite training in three 4 hour shifts.

B. Before proceeding with the instruction of Owner Personnel, prepare a typed outline in triplicate, listing the subjects that will be covered in this instruction, and submit the outline for review by the Owner. At the conclusion of the instruction period obtain the signature of each person being instructed on each copy of the reviewed outline to signify that he has a proper understanding of the operation and maintenance of the systems and resubmit the signed outlines.

C. Refer to other Division 26 Sections for additional Operator Training requirements.

1.19 SITE VISITATION

A. Visit the site of the proposed construction in order to fully understand the facilities, difficulties and restriction attending the execution of the work.

B. Before submitting a bid, it will be necessary for each Contractor whose work is involved to visit the site and ascertain for himself the conditions to be met therein in installing his work and make due provision for same in his bid. It will be assumed that this Contractor in submitting his bid has visited the premises and that his bid covers all work necessary to properly install the equipment shown. Failure on the part of the Contractor to comply with this requirement shall not be considered justification for the omission or faulty installation of any work covered by these Specifications and Drawings.

C. Understand the existing utilities from which services will be supplied; verify locations of utility services, and determine requirements for connections.

D. Determine in advance that equipment and materials proposed for installation fit into the confines indicated.

1.20 WARRANTY

A. The undertaking of the work described in this Division shall be considered equivalent to the issuance, as part of this work, of a specific guarantee extending one year beyond the date of completion of work and acceptance by Owner, against defects in materials and workmanship. Materials, appliances and labor necessary to effect repairs and replacement so as to maintain said work in good functioning order shall be provided as required. Replacements necessitated by normal wear in use or by Owner's abuse are not included under this guarantee.

B. All normal and extended warranties shall include parts, labor, miscellaneous materials, travel time, incidental expenses, freight/shipping, refrigerant, oils, lubricants, belts, filters and any expenses related to service call required to diagnose warranty problems.

1.21 TRANSFER OF ELECTRONIC FILES

A. Project documents are not intended or represented to be suitable for reuse by Architect/Owner or others on extensions of this project or on any other project. Any such reuse or modification without written verification or adaptation by Engineer, as appropriate for the specific purpose intended, will be at Architect/Owner’s risk and without liability or legal exposure to Engineer or its consultants from all claims, damages, losses and expense, including attorney’s fees arising out of or resulting thereof.

B. Because data stored in electric media format can deteriorate or be modified inadvertently, or otherwise without authorization of the data’s creator, the party receiving the electronic files agrees that it will perform acceptance tests or procedures within sixty (60) days of receipt, after which time the receiving party shall be deemed to have accepted the data thus transferred to be acceptable. Any errors detected within the sixty (60) day acceptance period will be corrected by the party delivering the electronic files. Engineer is not responsible for maintaining documents stored in electronic media format after acceptance by the Architect/Owner.

C. When transferring documents in electronic media format, Engineer makes no representations as to the long-term compatibility, usability or readability of documents resulting from the use of software application packages, operating systems, or computer hardware differing from those used by Engineer at the beginning of the Project.

D. Any reuse or modifications will be Contractor’s sole risk and without liability or legal exposure to Architect, Engineer or any consultant.

E. The Texas Board of Architectural Examiners (TBAE) has stated that it is in violation of Texas law for persons other than the Architect of record to revise the Architectural drawings without the Architect’s written consent.

1. It is agreed that “MEP” hard copy or computer-generated documents will not be issued to any other party except directly to the Architect/Owner. The contract documents are contractually copyrighted and cannot be used for any other project or purpose except as specifically indicated in AIA B-141 Standard Form of Agreement Between Architect and Owner.

2. If the client, Architect or Owner of the project requires electronic media for “record purposes”, then AutoCAD/ Revit documents will be prepared by Engineer on electronic media such as removable memory devices, flash drives or CD’s. These documents can also be submitted via file transfer protocols. AutoCAD/ Revit files will be submitted with all title block references intact to permit the end user to only view and plot the drawings. Revisions will not be permitted in this configuration.
3. At the Architect/Owner’s request, Engineer will assist the Contractor in the preparation of the submittals and prepare one copy of AutoCAD/ Revit files on electronic media or submit through file transfer protocols. The electronic media will be prepared with all indicia of documents ownership removed. The electronic media will be prepared in a “.rvt” or “.dwg” format to permit the end user to revise the drawings.

PART 2 - PRODUCTS

2.1 SUBSTITUTIONS

A. The names and manufacturers and model numbers have been used in the Contract documents to establish types of equipment and standards of quality. Where more than one manufacturer is named for a specific item of equipment, only one of the specified manufacturers will be considered for approval. Where only one manufacturer is mentioned with the phrase "or approved equal", Contractor may submit an alternate manufacturer for consideration, provided the following conditions are met:

1. Submit alternate equipment with complete descriptive data in shop drawing form. Provide sample of equipment upon request for review by Architect. Samples will be returned if requested in writing.
2. Alternate equipment must be equal from the standpoint of materials, construction and performance.
3. Alternate submittal must be presented to the Engineer/Architect ten (10) days prior to bid date for approval.

B. The Architect and Engineer shall be the sole judge of quality and equivalence of equipment, materials and methods.

2.2 PRODUCT LISTING

A. Products used on this project shall be listed by Underwriters' Laboratories.

2.3 ACCESS DOORS

A. Wherever access is required in walls or ceilings to concealed junction boxes, pull boxes, equipment, etc., installed under this Division, furnish a hinged access door and frame with flush latch handle to another Division for installation. Doors shall be as follows:

1. Plaster Surfaces: Milcor Style K.
2. Ceramic Tile Surfaces: Milcor Style M.
3. Drywall Surfaces: Milcor Style DW.
4. Install panels only in locations approved by the Architect.

2.4 EQUIPMENT PADS

A. Provide 4-inch-high concrete pads for indoor floor mounted equipment. Pads shall conform to the shape of the equipment with a minimum of 6 inch beyond the equipment. Top and sides of pads shall be troweled to a smooth finish, equivalent to the floor. External corners shall be bullnosed to a 3/4" radius, unless shown otherwise.

B. Provide 6-inch-high concrete pads for all exterior mounted equipment. Pads shall conform to the shape of the equipment with a minimum of 6 inch beyond the equipment. Provide a 4-foot monolithic extension to the pad in front of the equipment for service when mounted on a non-finished area (i.e. landscape, gravel, clay, etc.) Top and sides of pads shall be troweled to a smooth finish. External corners shall be bullnosed to a 3/4" radius, unless shown otherwise.

C. Provide a minimum 6-inch-high, steel reinforced concrete pad for generators. Pads shall be sized 6” larger that the outside perimeter dimensions. Provide a 4-foot monolithic extension to the pad around the equipment for service when mounted on a non-finished area (i.e. landscape, gravel, clay, etc.). Refer to structural details. Top and sides of pads shall be troweled to a smooth finish. External corners shall be bullnosed to a 3/4" radius, unless shown otherwise. The generator shall be bolted to the concrete pad per the manufacturers details.

D. Provide steel reinforced concrete pad for utility transformers. Pads shall comply with Utility Company Standards.

2.5 ESCUTCHEONS

A. Provide heavy chrome or nickel plated plates, of approved pattern, on conduit passing through walls, floors and ceilings in finished areas. Where conduit passes through a sleeve, no point of the conduit shall touch the building construction. Caulk around such conduit with sufficient layers of two hour rated firesafing by Thermafiber 4.0 P.C.F. density, U.S.G. fire test 4/11/78 and seal off openings between conduit and sleeves with non-hardening mastic prior to application of escutcheon plate. Escutcheons shall be Gravler Sure-Lock, or approved equal.

2.6 SPACE LIMITATIONS

A. Equipment shall be chosen which shall properly fit into the physical space provided and shown on the drawings, allowing ample room for access, servicing, removal and replacement of parts, etc. Adequate space shall be allowed for clearances in accordance with Code requirements. Physical dimensions and arrangement of equipment shall be subject to the approval of the Architect.

2.7 PAINTING

A. All factory assembled equipment for electrical work, except light fixtures, that normally is delivered with a factory applied finish shall be delivered with a hard surface factory applied finish such as baked-on machinery enamel which will not require additional field painting. The finish shall consist of not less than 2 coats of medium gray color paint USA No. 61 Munsell Notation 8-3G, 6. 10/0.54 enamel. This Contractor shall protect this finish from damage due to construction operations until acceptance of the building. He shall be responsible for satisfactorily restoring any such finishes or replacing equipment that becomes stained or damaged.

2.8 ELECTRICAL SYSTEM IDENTIFICATION

A. Conduit Systems: Provide adequate marking of major conduit which is exposed or concealed in accessible spaces to distinguish each run as either a power or signal/communication conduit. Except as otherwise indicated, use orange banding with black lettering. Provide self-adhesive or snap-on type plastic markers. Indicate voltage for that raceway. Locate markers at ends of conduit runs, on pull boxes, on junction boxes, near switches and other control devices, near items of equipment served by the conductors, at points where conduit passes through walls or floors, or enters non-accessible construction and at spacings of not more than 50 feet along each run of conduit. Switch-leg conduit and short branches for power connections do not have to be marked, except where conduit is larger than ¾ inch. Branch circuit conduits, junction boxes and pull boxes shall be marked with a permanent marker indicating panel name and branch circuit numbers.

B. Underground Cable Identification: Bury a continuous, preprinted, bright colored plastic ribbon cable marker with each underground cable (or group of cables), regardless of whether conductors are in conduit, duct bank, or direct buried. Locate each directly over cables, 6 to 8 inches below finished grade.

C. Identification of Equipment:

1. All major equipment shall have a manufacturer's label identifying the manufacturer's address, equipment model and serial numbers, equipment size, and other pertinent data. Care shall be taken not to obliterate this nameplate in any way. Provide black back plate with white letters and numbers for normal equipment. Provide red back plate with white letters and numbers for optional emergency equipment. Provide yellow back plate with white letters and numbers for Life safety equipment.
2. A black-white-black laminated plastic engraved identifying nameplate shall be secured by stainless steel screws to each automatic transfer switch, switchboard, distribution panel, motor control center, motor starter panels and panelboards.
   a. Identifying nameplates shall have ¼ inch high engraved letters and shall contain the following information:
      1) Name
      2) Voltage
      3) Phase
      4) "3" or "4" wire, and
      5) Where it is fed from.
   b. An example of a panelboard nameplate is:

Center Panel – 1A
208/120 volt, 3 phase, 4 wire
Center Fed from MDP

c. An example of an automatic transfer switch nameplate is:
Center ATS
208/120 volt, 3 phase, 4 wire, 4 pole
Center Fed from MDP

3. Each feeder device in a switchboard, distribution panel, and motor control center device shall have a nameplate showing the load served in ½ inch high engraved letters.
4. A black-white-black laminated plastic engraved identifying nameplate shall be secured by screws to each transformer, safety switch, disconnect switch, individual motor starter, enclosed circuit breaker, wireway, and terminal cabinet.
   a. Identifying nameplates shall have 1/4 inch high engraved letters and shall indicate the equipment served.
   b. An example of a disconnect switch is: ACCU-1.
5. Prohibited Markings: Markings which are intended to identify the manufacturer, vendor, or other source from which the material has been obtained are prohibited for installation within public, tenant, or common areas within the project. Also, prohibited are materials or devices which bear evidence that markings or insignias have been removed. Certification, testing (example, Underwriters' Laboratories, Inc.), and approval labels are exceptions to this requirement.
6. Warning Signs: Provide warning signs where there is hazardous exposure associated with access to or operation of electrical facilities. Provide text of sufficient clarity and lettering of sufficient size to convey adequate information at each location; mount permanently in an appropriate and effective location. Comply with recognized industry standards for color and design.
7. Operational Tags: Where needed for proper and adequate information on operation and maintenance of electrical system, provide tags of plasticized card stock, either preprinted or hand printed. Tags shall convey the message, example: "DO NOT OPEN THIS SWITCH WHEN BURNER IS OPERATING."

PART 3 - EXECUTION

3.1 EXCAVATING AND BACKFILLING

A. Trenching and backfilling and other earthwork operations required to install the facilities specified herein shall conform to the applicable requirements of Division 2 (95% of maximum standard density). Where trenching or excavation is required in improved areas, the backfill shall be compacted to a condition equal to that of adjacent undisturbed earth and the surface of the area restored to the condition existing prior to trenching or excavating operations. Provide a minimum of 3" of sand underneath all conduits. The plans indicate information pertaining to surface and sub-surface obstructions; however, this information is not guaranteed. Should obstructions be encountered whether or not shown, the Contractor shall alter routing of new work, reroute existing lines, remove obstructions where permitted, or otherwise perform whatever work is necessary to satisfy the purpose of new work and leave existing surfaces and structures in a satisfactory and serviceable condition. All work shall comply with OSHA Standards.

3.2 WORKMANSHIP AND CONCEALMENT

A. The work of this Section shall be performed by workman skilled in their trade. Installation shall be consistent in completeness whether concealed or exposed. Each item of electrical work shall be concealed in walls, chases, under floors and above ceilings except:

1. Where shown to be exposed.
2. Where exposure is necessary to the proper function.

B. Where mounting heights are not detailed or dimensioned, install systems, associated wall sleeves, and materials to provide the maximum headroom possible.

3.3 SLEEVES, CUTTING AND PATCHING

A. This section shall be responsible for placing sleeves for all conduit passing through walls, partitions, sound walls, beams, floors, roof, etc. Sleeves through below-grade walls shall use water-tight fitting manufactured by O-Z/Gedney.

B. All cutting and patching will be done under another Division, but this Section will be responsible for timely performance of this work and layout of holes and setting sleeves.

C. All un-used sleeves shall be sealed with 2 hour UL approved fire sealant manufactured by "3M" or approved equal.

D. Refer to 26 05 33 for additional requirements.

3.4 ELECTRICAL GEAR

A. Install all electrical equipment in accordance with the National Electrical Code and as shown on the drawings.

B. Lighting contactors, time clocks, fire alarm equipment, security equipment disconnect switches, etc. mounted in mechanical/electrical rooms shall be mounted at a working height not requiring a ladder, when wall space is available. Installation of these devices at greater elevations shall be approved by the Engineer. Contractor shall provide a coordination sketch of each mechanical/electrical room noting locations and mounting heights of all electrical devices (note bottom and top elevations) shown to be installed. Sketches shall be provided to the Engineer for review and the general contractor for coordination with other trades working in these rooms.

C. Fire retardant back boards secured to drywall studs may be used for contactors, time clocks, fire alarm equipment, security equipment, and disconnect switches 60 amp or smaller. All other wall mounted devices shall be mounted to unistrut. Unistrut shall be securely mounted to the floor and structural ceiling. Toggle bolts or anchor bolts attached to drywall is not acceptable.

3.5 CLEANING

A. Clean lighting fixtures and equipment.

B. Touch-up and refinish scratches and marred surfaces on panels, switches, starters, and transformers.

3.6 CORROSIVE AREAS

A. In areas of a corrosive nature, which include but are not limited to the following: pool equipment rooms, cooling towers and areas subject to salt air, etc., provide NEMA 4 X stainless steel or fiberglass reinforced enclosures for contactors, panel boards, controllers, starters, disconnects and materials used as supporting means (i.e. plastibond unistrut, pipe, fittings). The use of spray on coating may be acceptable in some applications.

3.7 TESTS AND INSPECTIONS

A. Tests and inspection requirements shall be coordinated with Division I.

B. Date for final acceptance test shall be sufficiently in advance of completion date of contract to permit alterations or adjustments necessary to achieve proper functioning of equipment prior to contract completion date.

C. Conduct re-tests as directed by Architect on portions of work or equipment altered or adjusted as determined to be necessary by final acceptance test. No resultant delay or consumption of time as a result of such necessary re-test beyond contract completion date shall relieve Contractor of his responsibility under contract.

D. Put circuits and equipment into service under normal conditions, collectively and separately, as may be required to determine satisfactory operation. Demonstrate equipment to operate in accordance with requirements of these specifications. Perform tests in the presence of Architect. Furnish instruments and personnel required for tests.

E. Final Inspection:

1. At the time designated by the Architect, the entire system shall be inspected by the Architect and Engineer. The contractor or his representative shall be present at this inspection.
2. Panelboards, switches, fixtures, etc., shall be cleaned and in operating condition.
3. Certificates and documents required hereinbefore shall be in order and presented to the Architect prior to inspection.
4. Panel covers, junction box covers, etc., shall be removed for visual inspection of the wire, bus bars, etc.
5. After the inspection, any items which are noted as needing to be changed or corrected in order to comply with these specifications and the drawings shall be accomplished without delay.

F. The contractor shall provide a thermographic test using an independent testing laboratory using an infrared scanning device. This test shall include but not limited to all switchboards, distribution panelboards, panelboards, automatic transfer switches and other electrical distribution devices. This test shall be conducted to locate high temperature levels. This test shall be conducted between 3 to 8 months after occupancy, but not beyond the one year warranty period. Submit test to the architect and engineer using test reporting forms. All unacceptable conditions shall be corrected prior to the end of the warranty period.

END OF SECTION

SECTION 26 05 33

RACEWAYS

PART 1 - GENERAL

1.1 SCOPE

A. Provide electrical raceways and fittings as shown, scheduled and specified.

B. The types of raceways and fittings required are as follows:

1. Rigid hot-dipped galvanized steel conduit (GRC) (RMC)
2. Intermediate hot-dipped galvanized steel conduit (IMC)
3. Electrical metallic tubing (EMT)
4. PVC (Sch. 40 & 80)
5. Flexible metal conduit (FMC)
6. Liquid-tight flexible metal conduit (LFMC)
7. PVC coated rigid galvanized steel conduit (GRCC)

REFERENCE STANDARDS

C. ANSI C80.1 - American National Standard for Electrical Rigid Steel Conduit (ERSC).

D. ANSI C80.3 - American National Standard for Electrical Metallic Tubing -- Steel (EMT-S).

E. ANSI C80.5 - American National Standard for Electrical Rigid Metal Conduit -- Aluminum (ERMC-A).

F. NFPA 70 - National Electrical Code.

G. UL 6 - Electrical Rigid Metal Conduit-Steel.

H. UL 6A - Electrical Rigid Metal Conduit-Aluminum, Red Brass, and Stainless Steel.

I. UL 360 - Liquid-Tight Flexible Metal Conduit.

J. UL 651 - Schedule 40, 80, Type EB and A Rigid PVC Conduit and Fittings.

K. UL 1242 - Electrical Intermediate Metal Conduit-Steel.

L. NEMA FB-1

M. NEMA TC3

1.2 ACCEPTABLE MANUFACTURERS

A. Raceways

1. Allied
2. Republic
3. Prime Conduit (Carlon)
4. Wheatland Tube
5. Cantex
6. Western Tube
7. Robroy Industries

B. Fittings

1. Appleton
2. Crouse Hinds
3. Steel City
4. O.Z. Gedney
5. Carlon
6. Raco, Inc.
7. Bridgeport

C. Boxes

1. RACO
2. Thomas and Betts
3. EATON
4. Crouse-Hinds
5. Appleton

D. Surface

1. Hubbell
2. Wiremold

1.3 SUBMITTALS

A. Product data shall include but not be limited to:

1. Cutsheets for raceways, fitting, solvents, primers, etc.

1.4 REQUIREMENTS OF REGULATORY AGENCIES WORK IN ACCORDANCE WITH

A. NFPA 70

B. Local, municipal, or state codes that have jurisdiction.

PART 2 - PRODUCTS

2.1 CONDUIT AND FITTINGS

A. Rigid Galvanized Steel Conduit (GRC/RMC)

1. Construction, Materials, Codes, Standards:
   a. Article 344 - NFPA 70.

b. Hot-dip galvanized rigid steel conduit, galvanized after fabrication. Products shall comply with UL 6 and ANSI C80.1. All threads shall be galvanized after cutting. A uniform zinc coating shall be applied to the inner and outer walls.
c. Fittings shall be threaded and shipped with thread protectors. Set Screw are not acceptable. Die Cast Fittings are not acceptable.

2. Permitted for use in the following locations:
   a. Outdoor or Exterior (Exposed)
   b. Indoors, Conditioned Spaces
   c. Unconditioned Spaces
   d. Underslab (Void Form Slab): where not in contact with earth – only permitted where indicated on plan.
   e. Underslab (Suspended Slab): Permitted – only where indicated on plan.
3. Prohibited Locations: Underground, Corrosive environments, Underslab (Slab on Grade), Foundation penetrations.
4. Specific Uses: Exposed Exterior installations, where within or attached to masonry or concrete, where subject to damage.

B. Intermediate Metal Conduit (IMC)

1. Construction, Materials, Codes, Standards:
   a. Article 342 - NFPA 70.
   b. Conduit shall be similar to rigid steel conduit except thinner wall.
   c. Fittings shall be threaded hot-dipped galvanized and shipped with thread protectors. Set Screw or Die Cast Fittings are not acceptable
   d. Products shall comply with UL 1242.
2. Permitted for use in the following locations:
   a. Outdoor or Exterior (Exposed)
   b. Indoors, Conditioned Spaces
   c. Unconditioned Spaces
   d. Underslab (Void Form Slab): not in contact with earth only as indicated on plan.
   e. Underslab (Suspended Slab): only where indicated on plan.
3. Prohibited Locations: Corrosive Environment, Underground, Underslab (Slab on Grade), Foundation Penetrations
4. Specific Uses: Exposed exterior locations, Rooftops exposed to sunlight

C. Electrical Metallic Tubing (EMT)

1. Construction, Materials, Codes, Standards:
   a. Article 358 - NFPA 70.
   b. EMT shall be made of hot-dip galvanized strip steel. The interior shall be coated with a corrosion-resistant lubricant for ease of wiring pulling.
   c. Shall utilize steel insulated throat, set-screw connectors and steel set-screw couplings in all indoor conditioned spaces.
   d. Shall utilize steel insulated throat, threadless, watertight compression type connectors and steel threadless watertight compression type coupling in all non-conditioned spaces and in grout filled CMU walls.
   e. Products shall comply with UL 797 and ANSI C80.3.
2. Permitted for use in the following locations:
   a. Indoors, Conditioned Spaces

b. Unconditioned Spaces

3. Prohibited Locations: Corrosive Environment, Underground, Underslab (all types), Wet or Damp Locations, Exteriors, Within Concrete, foundation penetrations.
4. Specific Uses: Primary use conduit for indoor spaces, where conditioned. Unconditioned locations shall require use of insulated throat water tight fittings.

D. Rigid Nonmetallic Conduit (PVC Schedule 40 & 80)

1. Construction, Materials, Codes, Standards:
   a. Article 352 and 300.6 - NFPA 70.
   b. Conduit shall be schedule 40 or 80 polyvinyl chloride (PVC), UV stabilized, rated for 90°C conductors.
   c. Fittings shall be solvent weld socket type.
   d. Products shall comply with UL 651.
2. Permitted for use in the following locations:
   a. Underground (Earth, outside foundation perimeter)
   b. Underslab (Slab on Grade): only where indicated on plan.
   c. Under Driveways, roadways, or vehicular crossings, and where required by Utility Company: PVC Schedule 80
      1) PVC Schedule 40 allowed where concrete encased.
3. Prohibited Locations: return air Plenums, interstitial spaces, Outdoor or Exterior (Exposed), Unconditioned spaces, corrosive environments, underslab (suspended or void form), foundation penetrations.
4. Specific Uses: For use underground or underslab (Slab on grade). Underground use is approved for all locations where transiting a project site, not underneath any foundation. For locations under the footprint of building/foundation, use only authorized where indicated on drawings.

E. Flexible Metal Conduit (FMC/Greenfield)

1. Construction, Materials, Codes, Standards:
   a. Article 348 - NFPA 70.
   b. Spirally wound continuously interlocked zinc coated strip steel.
   c. Fittings shall be one screw for smaller than 1-1/2-inch, two screw for 1-1/2-inch and larger, double clamp steel or malleable iron, either cadmium plated or hot-dip galvanized.
   d. Products shall comply with UL 360.
2. Permitted for use in the following locations:
   a. Indoors, Conditioned Spaces.
3. Prohibited Locations: outdoors/Exterior, unconditioned spaces, Corrosive, Wet, Concrete, underslab(all types), underground, foundation penetrations.
4. Specific Uses and Applications: For use in connection to rotating equipment within conditioned spaces, including plenums. Also permitted for use with empty raceways in walls for use with Low Voltage, AV, telecom cabling.

F. Liquid-Tight Flexible Steel Conduit (LFMC/Seal Tite)

1. Construction, Materials, Codes, Standards
   a. Article 350 - NFPA 70.

b. Spirally wound continuously interlocked zinc coated strip steel with a UV stabilized polyvinyl chloride (PVC) outer jacket bonded to the conduit.
c. Fittings shall be compression type, malleable iron, with insulated throat, either cadmium plated or hot-dip galvanized. Plastic is not acceptable.

2. Permitted for use in the following locations:
a. Outdoor or Exterior (Exposed)
b. Indoors, Conditioned Spaces
c. Unconditioned Spaces
3. Prohibited Locations: Concrete, corrosive, underground, underslab (all types), foundation penetrations.
4. Specific Uses and Applications: Primary use is connection to rotating equipment at unconditioned spaces. Transformer Primaries and Secondaries (excluding service transformer).

G. PVC Coated Rigid Galvanized Steel Conduit (GRCC/Plastibond)

1. Construction, Materials, Codes, Standards:
a. Article 344 and 300.6 - NFPA 70.
b. Conduit shall be same as rigid metal conduit with a factory-applied 40-mil-thick covering of polyvinyl chloride (PVC) bonded to the metal, coated inside and outside.
2. Permitted for use in the following locations:
a. Outdoor or Exterior (Exposed): except for stub-ups and penetrations.
b. Corrosive Environment: required throughout
1) Where corrosive environments exist, such as pools, pool pump room, corrosive chemical storage, GRCC shall be provided throughout, up to the point of sealed penetration into a non-corrosive environment.
c. Underground (Earth, outside foundation perimeter): Required at bends of 15° or greater, Penetrations through concrete, Stub-ups through foundation or grade at concrete.
d. Foundation Penetrations
3. Prohibited Locations: extended runs exposed to sunlight, Plenums, Underslab except for penetrations (all foundation types).
4. Specific Uses: For use at Cooling Towers, Pools, Pool Decks, Pool pump rooms, chemical storage, corrosive environments.

2.2 PULL BOXES

A. Exterior in-ground pull boxes shall be concrete or polymer as manufactured by Brooks, Dalworth, Hubbell Quazite, or approved equivalent. Covers shall include identification of systems contained.

B. Where located in Roadways, Parking Lots, or Traffic zones, Pullboxes shall be rated to accept a minimum 25,000 lb. load.

C. All Pullboxes shall be sized based on NEC wire-bending requirements at each individual location.

D. Covers shall include identification of systems contained, such as:

1. Electrical
2. Telecom
3. Communications
4. Others, as required.

E. Pull boxes in pole bases shall be as manufactured by Carlon.

F. Pullboxes shall be provided in all raceway systems upon exceeding the following conditions:

1. The equivalent of 270° in conduit bends, or after (3) 90° bends.
2. Any 400ft of linear conduit or duct bank continuous segments.
3. Where required to make transitions to prevent the damaging of conductor insulation.

2.3 WIREWAYS

A. Wireways shall be made of not less than 16-gauge sheet steel for 4 inch and 6 inch square sizes and 14 gauge steel for 8 inch and 12 inch square sizes. Couplings end plates, and knockouts shall be furnished as required. Each section of wireways shall be rigidly supported.

B. The finish shall be ANSI-49 gray epoxy paint applied by a cathodic electrode position paint process over a corrosion resistant phosphate preparation for NEMA 1 wireways. Provide galvanized steel for NEMA 3R wireways. NEMA 3R wireways and auxiliary gutters are for horizontal mounting only.

2.4 BUSHINGS

A. Provide nylon bushing on end of all low voltage cabling system conduits (sleeves, rough-ins, etc.).

B. Provide Grounding Bushing as required in 26 05 26 - Grounding.

PART 3 - EXECUTION

3.1 PROVIDE CONDUIT AS FOLLOWS:

A. GENERAL: The Drawings are diagrammatic and are intended to show the general location of outlets, devices, fixtures, and arrangement and control of circuits. The Contractor shall determine exact locations by actual measurement of the building or by reference to the Architectural Drawings.

B. Raceways shall not be routed below or within slab-on-grade, foundations, or below grade of suspended slab structures, unless specifically noted or indicated otherwise on plan.

C. EMT in sizes up to 4 inches when concealed or not exposed to damage and located indoors only. (EMT is not acceptable in wet and damp location.)

D. MINIMUM SIZE: 3/4 inch.

E. Flexible conduit of any type shall not be used except for connections to rotating or vibrating equipment, or where use for low voltage raceways. All conduit shall be provided as a rigid type conduit for homeruns, runs between termination boxes, outlets, etc.

F. Fixture whips: Refer to 26 51 19 for additional information.

G. Of such size, and so installed that conductors may be drawn in without injury or excessive strain.

H. Where entering panels, pull boxes, junction boxes, or outlet boxes, shall be secured in place with lock nuts inside and outside, and insulated bushings inside.

I. Have Red seal type VCC or approved equal cable supports in risers, as required by NFPA 70.

J. Have ends reamed after cutting and application of die.

K. Keep conduit corked and dry during construction and swab out before conductors are pulled.

L. Have bends and offsets made with approved tools. Bends or offsets in which the pipe is crushed or deformed shall not be installed.

M. Have O.Z. Gedney or approved equal expansion fittings where crossing building expansion joints.

N. Fixtures in finished areas having suspended acoustical ceilings shall be connected to outlet boxes of lighting grid by flexible metal conduit; length not to exceed ten feet (six feet if using 3/8" manufactured fixture "whips").

O. Outlet boxes in partitions shall never be set back-to-back. They shall be offset to prevent undue noise transmission from room to room.

P. Each entire conduit system shall be installed complete before any conductors are drawn in. Every run of conduit shall be finished before covering up to guard against obstructions and omissions.

Q. Sleeves shall be placed in the forms of concrete, masonry and fire rated walls, floor slabs and beams, for the passage of conduits. Sleeves should be set in place a sufficient time ahead of the concrete work so as not to delay the work. Sleeves shall be rigid galvanized steel with a minimum thickness of 1.07MM and set to extend 4" above slab.

R. All pipe penetrations through walls and concrete floors shall be fire rated by applying USG Thermafiber in the space between the concrete and the pipe. The fire rating shall be additionally sealed by using 3M brand model CP 25 or 303 fire barrier caulk and putty. All fire rating material shall be installed in accordance with manufacturer`s printed instructions.

S. All conduit shall be cleaned and swabbed to remove all foreign matter and moisture prior to pulling wire and cable. All boxes in which conduits terminate shall be cleaned of all concrete mortar and other foreign matter.

T. Provide #30 nylon pulling line in all conduits in which permanent wiring is not installed.

U. All conduit shall be securely fastened and supported using hot galvanized malleable iron one-hole pipe straps, clamps, hanger or other means approved by the engineer. Supports shall be as required per NEC. Tie wire shall not be used as support or securing means. Support conduit independently of ceiling hanger wire. Use all thread rods to support outlet boxes, junction boxes and conduit.

V. Contact the Architect and Engineer for an installation review before covering any below grade or above grade conduit.

W. All new outlets shall be flush mounted. In remodeled areas where wall construction prohibits flush mounting, provide Hubbell 2400 series, unless noted otherwise. Verify exact location and routing with architect before installation.

X. Contractor shall not penetrate waterproof barriers without using proper fitting to maintain barriers. This shall include exterior walls and slabs. Coordinate with Architect for proper methods.

3.2 CONDUIT ROUTING

A. Conduit shall be concealed and by using the shortest practicable route between outlets, including where located on CMU walls.

B. Conduit may be exposed in electrical and mechanical rooms, and central plants, or other industrial type facilities such as warehouses or production plants.

C. Install risers, drops, offsets to avoid ductwork and structural components. Ductwork and structural systems shall take precedence to conduit.

D. Any exposed and visible conduit shall be parallel and perpendicular based on the lines of the building (such as ceiling lines, wall blocking lines, or architectural feature lines) using structural systems to conceal conduit visibility at all opportunities.

E. Where mounting heights are not detailed or dimensioned, install exposed conduit, associated wall penetrations, and materials tight to structure (overhead, walls, columns, etc.) to provide the maximum headroom possible.

F. Concealed conduit shall be run in as direct manner as possible, using long bends. All bend radii shall be 12x conduit diameter. Condulets in lieu of elbows where ease of installation and appearance warrant their use – confirmation with architect is required for this use.

G. Conduit shall be continuous, with no more than (4) quarter bends between terminals, cabinets, boxes, or pullboxes is acceptable. Contractor is expected to provide wireway or boxes at appropriate intervals, in accordance with NFPA 70 for wire bending space. All conduit shall be electrically continuous throughout, including across boxes and cabinets. Terminals of all conduit shall be provided with double lock nuts and bushing, or terminated on conduit hubs. Use of Running Threads prohibited.

3.3 CONDUIT CORROSION PROTECTION

A. Branch circuit conduits installed in concrete slabs on fill or grade shall be positioned in a manner to ensure complete concrete cover. In no case shall such conduits be exposed below or above the slab surfaces, or penetrate the waterproof membrane.

B. At locations where metallic conduits pass through slabs on grade or transitions below grade, PVC coated rigid galvanized conduit shall be used.

C. Conduit installed in the air gap between the water-resistant barrier and finish brick shall not exceed 2-ft. in length.

3.4 EXPANSION JOINTS

A. Install approved expansion fitting in all conduit runs in excess of 150 feet or when crossing building expansion joints.

3.5 OUTLET AND JUNCTION BOXES

A. Provide an approved galvanized outlet box with adequate volume for number of conductors installed.

B. Provide standard galvanized switch boxes of the required number of gangs. Switch boxes where conduit is exposed shall be handy boxes or approved equal.

C. Outlet boxes for receptacles shall be similar to Universal 52151 with suitable raised cover. Receptacle boxes where conduit is exposed shall be handy boxes or approved equal.

D. Weatherproof boxes shall be FS or FD. Provide these boxes in all non-conditioned areas, exterior areas and natatoriums.

E. Outdoor boxes shall be NEMA 3R, with conduit connections made by Myers Hubs.

F. See notes and details on Drawings for special box requirements.

G. Provide junction boxes required to facilitate installation of the various conduit systems. Provide support boxes required for risers, each complete with approved cable supports as described elsewhere in this Division.

H. Outlet boxes for drywall shall be standard galvanized 4" square boxes with the appropriate device cover. Secure all outlet boxes with a backing brace connected to two adjacent studs. Mounting brackets with a single ear to rest against the backing sheet rock are not acceptable.

I. Provide floor outlet fittings for telephone to match fittings for duplex floor receptacles.

J. Provide 3-1/2” deep gangable masonry boxes in all masonry wall (CMU). Steel City GW-135-G or approved equal.

K. Provide shallow 4”x4” boxes in all demountable partitions.

L. Metallic boxes located in fire rated walls or partitions shall be separated by a minimum horizontal distance of 24 in. This minimum separation distance between metallic boxes may be reduced when " Wall Opening Protective Materials" (CLIV) are installed according to the requirements of their Classification. Metallic boxes shall not be installed on opposite side of walls or partitions of staggered stud construction unless "Wall Opening Protective Materials" are installed with the metallic boxes in accordance with Classification requirements for the protective materials.

M. Junction, pull boxes, condulets, gutters, disconnects, contactors, etc., above 2-foot x 2-foot grid ceilings shall be mounted within 18-inches of ceiling grid. Above 2-foot x 4-foot grid ceiling they shall be mounted within 30-inches of ceiling grid. All junction box, pull box, gutter openings shall be side or bottom accessible.

N. Junction boxes are prohibited above drywall or plaster ceilings except for lighting; and those must be mounted directly over light fixture opening. Route power, PA, fire alarm conduits to nearest lay-in ceiling.

3.6 THRU-WALL SEALS

A. Provide O.Z. Gedney "Thru-wall" seals for all conduits passing through concrete structure below grade, above grade, and floor penetrations below grade. These prevent moisture from entering the building.

B. Straight sleeves are not acceptable.

3.7 PULL BOXES

A. Interior Pull boxes shall be provided for conduit systems as required and shall be constructed of galvanized steel of not less than gauge and size specified by National Electrical Code. Size pull boxes per Article 314.28 - NFPA 70.

B. Where two or more feeders pass through a common pull box, they shall be tagged to indicate clearly their electrical characteristics, circuit number, and panel designation.

C. Exterior in-ground pull boxes shall have open bottoms with sand and rock beds below box for drainage of water. Provide closed bottom boxes where specified. Closed bottom boxes shall be provided with sumps for portable pump to allow for extracting water. Refer to details on the drawings.

D. Pull boxes mounted in pole bases shall be coordinated with the pour of the pole base and shall be flush with finished footing.

3.8 WIREWAYS

A. Wireways shall be installed as indicated or required and locations shall be coordinated with architect.

B. Wiring in wireways shall be neatly bundled, tied and suitably tagged.

3.9 UNDERGROUND DUCTBANK SYSTEM

A. DUCT SYSTEM

1. The duct system shall consist of Schedule 40 PVC or type 1-EB PVC conduits encased in red concrete as detailed on the drawings. Use rigid conduit for stub-ups and the last ten feet at the end of each ductbank. Duct lines shall be laid to a minimum grade of 4 inches per 100 feet and shall be free from either horizontal or vertical waves. Duct lines shall be straight unless otherwise noted on the drawings. Duct lines shall be installed so that the top of concrete in encased duct lines is not less than 24 inches below finished grade or finished paving at any point. Changes in direction or runs exceeding a total of 10 degrees, either vertical or horizontal, shall be accomplished by long sweep bends having a minimum radius of curvature of 5 feet. The long sweep bends may be made up of one or more curved or straight sections and/or combinations thereof using five degree angle couplings. Conduit shall be thoroughly cleaned before using or laying. During construction and after the duct line is completed, the ends of the conduit shall be plugged to prevent water washing mud into the conduits. Particular care shall be taken to keep the conduits clean of concrete, dirt, and any other substance during the course of construction.
2. Each single conduit of the duct bank shall be completely encased in steel reinforced concrete as indicated. The thickness of concrete encasement indicated is the minimum thickness, and may be increased to fit the actual shape of trench.
3. Concrete for duct bank envelopes shall be standard 2000 psi concrete mix as described in Division 03, and be colored deep red for permanent marking of underground electrical work. The concrete red pigment shall be pure inorganic natural metallic base pigment, approved by the Engineer before use. Organic pigments will not be permitted. The approved pigments shall be mixed four pounds per yard of cement.
   a. Envelopes may be poured directly against sides of trenches if the "cut" is clean, even and free of loose material. All loose dirt and extraneous material shall be removed from the trenches before and during the pouring of concrete to ensure sound envelopes. Concrete shall be carefully spaded during pouring to eliminate all voids under and between the conduit and honeycombing of the exterior surfaces. Power driven tampers of agitators shall not be used, unless specifically designed for the application, in order to ensure that the water-tightness of the conduits is not destroyed.
   b. Generally, each run of envelopes shall be poured in one continuous operation. Where more than one pour is necessary, each pour shall terminate in a vertical plane. Partial pours shall not terminate in horizontal or angular planes.

B. For normal underground installation see Section 26 02 00, paragraph 3.1 for Excavating and Backfilling.

END OF SECTION

SECTION 28 05 00

BASIC MATERIALS AND METHODS FOR FIRE ALARM

PART 1 - GENERAL

1.1 GENERAL REQUIREMENTS

A. The requirements of the General Conditions and Supplementary Conditions apply to all Work herein.

B. The Contract Drawings indicate the extent and general arrangement of the systems. If any departure from the Contract Drawings are deemed necessary by the Contractor, details of such departures and the reasons, therefore, shall be submitted to the Architect for approval as soon as practicable. No such departures shall be made without the prior written approval of the Architect.

1.2 SCOPE OF WORK

A. The Work included under this Contract consists of the furnishing and installation of all equipment and material necessary and required to form the complete and functioning systems in all of its various phases, all as shown on the accompanying Drawings and/or described in these Specifications. The contractor shall review all pertinent drawings, including those of other contracts prior to commencement of Work.

B. This Division requires the furnishing and installing of all items Specified herein, indicated on the Drawings or reasonably inferred as necessary for safe and proper operation; including every article, device or accessory (whether or not specifically called for by item) reasonably necessary to facilitate each system's functioning as indicated by the design and the equipment specified. Elements of the work include, but are not limited to, materials, labor, supervision, transportation, storage, equipment, utilities, all required permits, licenses and inspections. All work performed under this Section shall be in accordance with the Project Manual, Drawings and Specifications and is subject to the terms and conditions of the Contract.

C. The approximate locations of Electrical items are indicated on the Drawings. These Drawings are not intended to give complete and accurate details in regard to location of outlets, apparatus, etc. Exact locations are to be determined by actual measurements at the building, and will in all cases be subject to the Review of the Owner or Engineer, who reserves the right to make any reasonable changes in the locations indicated without additional cost to the Owner.

D. Items specifically mentioned in the Specifications but not shown on the Drawings and/or items shown on Drawings but not specifically mentioned in the Specifications shall be installed by the Contractor under the appropriate section of work as if they were both specified and shown.

E. All discrepancies within the Contract Documents discrepancies between the Contract Documents and actual job-site conditions shall be reported to the Owner or Engineer so that they will be resolved prior to the bidding, where this cannot be done at least 7 working days prior to bid; the greater or more costly of the discrepancy shall be bid. All labor and materials required to perform the work described shall be included as part of this Contract.

F. It is the intention of this Section of the Specifications to outline minimum requirements to furnish the Owner with a turn-key and fully operating system in cooperation with other trades.

G. It is the intent of the above "Scope" to give the Contractor a general outline of the extent of the Work involved; however, it is not intended to include each, and every item required for the Work. Anything omitted from the "Scope" but shown on the Drawings, or specified later, or necessary for a complete and functioning heating, ventilating and air conditioning system shall be considered a part of the overall "Scope".

H. The Contractor shall rough-in fixtures and equipment furnished by others from rough-in and placement drawings furnished by others. The Contractor shall make final connection to fixtures and equipment furnished by others.

I. Contractor shall participate in the commissioning process; including but not limited to meeting attendance, completion of checklists and participation in functional testing.

J. Refer to 26 03 13 for demolitions requirements.

1.3 RELATED SECTIONS

A. General Conditions

B. Supplementary Conditions

C. Division One

1.4 COOPERATION WITH TRADES

A. Cooperation with trades of adjacent, related, or affected materials or operations shall be considered a part of this work in order to affect timely and accurate placing of work and bring together in proper and correct sequence, the work of such trades.

1.5 REFERENCES

A. National Electrical Code (NEC)

B. American Society for Testing and Materials (ASTM)

C. Underwriter's Laboratories, Inc. (UL)

D. Insulated Cable Engineer's Association (ICEA)

E. National Electrical Manufacturer's Association (NEMA)

F. Institute of Electrical and Electronics' Engineers (IEEE)

G. American National Standards Institute (ANSI)

H. National Fire Protection Association (NFPA)

I. International Energy Conservation Code (IECC)

1.6 COMPLETE FUNCTIONING OF WORK

A. All work fairly implied as essential to the complete functioning of the electrical systems shown on the Drawings and Specifications shall be completed as part of the work of this Division unless specifically stated otherwise. It is the intention of the Drawings and Specifications to establish the types of the systems, but not set forth each item essential to the functioning of the system. In case of doubt as to the work intended, or in the event of amplification or clarification thereof, the Contractor shall call upon the Architect for supplementary instructions, Drawings, etc.

B. Contractor shall review all pertinent Drawings and adjust his work to all conditions shown there on. Discrepancies between Plans, Specifications, and actual field conditions shall be brought to the prompt attention of the Architect.

1. Approximate location of transformers, feeders, branch circuits, outlets, lighting and power panels, outlets for special systems, etc., are indicated on the Drawings. However, the Drawings, do not give complete and accurate detailed locations of such outlets, conduit runs, etc., and exact locations must be determined by actual field measurement. Such locations will, at all times, be subject to the approval of the Architect.
2. Communicate with the Architect and secure his approval of any outlet (light fixture, receptacle, switch, etc.) location about which there may be the least question. Outlets obviously placed in a location not suitable to the finished room or without specific approval, shall be removed and relocated when so directed by the Architect. Location of light fixtures shall be coordinated with reflected ceiling plans.

C. Additional coordination with mechanical contractor may be required to allow adequate clearances of mechanical equipment, fixtures and associated appurtenances. Contractor to notify Architect and Engineer of unresolved clearances, conflicts or equipment locations.

1.7 SCHEMATIC NATURE OF CONTRACT DOCUMENTS

A. The contract documents are schematic in nature in that they are only to establish scope and a minimum level of quality. They are not to be used as actual working construction drawings. The actual working construction drawings shall be the approved shop drawings.

1.8 CONTRACTOR'S QUALIFICATIONS

A. An approved contractor for the work under this division shall be:

a. A specialist in this field and have the personnel, experience, training, and skill, and the organization to provide a practical working system.

b. Able to furnish evidence of having contracted for and installed not less than 3 systems of comparable size and type that have served their Owners satisfactorily for not less than 3 years.

c. Perform work by persons qualified to produce workmanship of specified quality. Persons performing electrical work shall be required to be licensed. Onsite supervision, journeyman shall have minimum of journeyman license. Helpers, apprentices shall have minimum of apprentice license.

1.9 DATE OF FINAL ACCEPTANCE

A. The date of final acceptance shall be the date of owner occupancy, or the date all punch list items have been completed or final payment has been received. Refer to Division One for additional requirements.

B. The date of final acceptance shall be documented in writing and signed by the architect, owner and contractor.

1.10 DEFINITIONS AND SYMBOLS

A. General Explanation: A substantial amount of construction and Specification language constitutes definitions for terms found in other Contract Documents, including Drawings which must be recognized as diagrammatic and schematic in nature and not completely descriptive of requirements indicated thereon. Certain terms used in Contract Documents are defined generally in this article, unless defined otherwise in Division 1.

B. Definitions and explanations of this Section are not necessarily either complete or exclusive but are general for work to the extent not stated more explicitly in another provision of the Contract Documents.

C. Indicated: The term "Indicated" is a cross-reference to details, notes or schedules on the Drawings, to other paragraphs or schedules in the Specifications and to similar means of recording requirements in Contract Documents. Where such terms as "Shown", "Noted", "Scheduled", "Specified" and "Detailed" are used in lieu of "Indicated", it is for the purpose of helping the reader locate cross-reference material, and no limitation of location is intended except as specifically shown.

D. Directed: Where not otherwise explained, terms such as "Directed", "Requested", "Accepted", and "Permitted" mean by the Architect or Engineer. However, no such implied meaning will be interpreted to extend the Architect's or Engineer's responsibility into the Contractor's area of construction supervision.

E. Reviewed: Where used in conjunction with the Engineer's response to submittals, requests for information, applications, inquiries, reports and claims by the Contractor the meaning of the term "Reviewed" will be held to limitations of Architect's and Engineer's responsibilities and duties as specified in the General and Supplemental Conditions. In no case will "Reviewed" by Engineer be interpreted as a release of the Contractor from responsibility to fulfill the terms and requirements of the Contract Documents.

F. Furnish: Except as otherwise defined in greater detail, the term "Furnish" is used to mean supply and deliver to the project site, ready for unloading, unpacking, assembly, installation, etc., as applicable in each instance.

G. Install: Except as otherwise defined in greater detail, the term "Install" is used to describe operations at the project site including unloading, unpacking, assembly, erection, placing, anchoring, applying, working to dimension, finishing, curing, protection, cleaning and similar operations, as applicable in each instance.

H. Provide: Except as otherwise defined in greater detail, the term "Provide" is used to mean "Furnish and Install", complete and ready for intended use, as applicable in each instance.

I. Installer: Entity (person or firm) engaged by the Contractor or its subcontractor or Sub-contractor for performance of a particular unit of work at the project site, including unloading, unpacking, assembly, erection, placing, anchoring, applying, working to dimension, finishing, curing, protection, cleaning and similar operations, as applicable in each instance. It is a general requirement that such entities (Installers) be expert in the operations they are engaged to perform.

J. Imperative Language: Used generally in Specifications. Except as otherwise indicated, requirements expressed imperatively are to be performed by the Contractor. For clarity of reading at certain locations, contrasting subjective language is used to describe responsibilities that must be fulfilled indirectly by the Contractor, or when so noted by other identified installers or entities.

K. Minimum Quality/Quantity: In every instance, the quality level or quantity shown or specified is intended as minimum quality level or quantity of work to be performed or provided. Except as otherwise specifically indicated, the actual work may either comply exactly with that minimum (within specified tolerances) or may exceed that minimum within reasonable tolerance limits. In complying with requirements, indicated or scheduled numeric values are either minimums or maximums as noted or as appropriate for the context of the requirements. Refer instances of uncertainty to Owner or Engineer via a request for information (RFI) for decision before proceeding.

L. Abbreviations and Symbols: The language of Specifications and other Contract Documents including Drawings is of an abbreviated type in certain instances and implies words and meanings which will be appropriately interpreted. Actual word abbreviations of a self-explanatory nature have been included in text of Specifications and Drawings. Specific abbreviations and symbols have been established, principally for lengthy technical terminology and primarily in conjunction with coordination of Specification requirements with notations on Drawings and in Schedules. These are frequently defined in Section at first instance of use or on a Legend and Symbol Drawing. Trade and industry association names and titles of generally recognized industry standards are frequently abbreviated. Singular words will be interpreted as plural and plural words will be interpreted as singular where applicable and where full context of Contract Documents so indicate. Except as otherwise indicated, graphic symbols and abbreviations used on Drawings and in Specifications are those recognized in construction industry for indicated purposes. Where not otherwise noted symbols and abbreviations are defined by ASHRAE Fundamentals Handbook, chapter 39 "Abbreviations and Symbols", ASME and ASPE published standards.

1.11 DELIVERY, STORAGE, AND HANDLING

A. Deliver products to the project properly identified with names, model numbers, types, grades, compliance labels, and other information needed for identification.

B. Deliver products to the project at such time as the project is ready to receive the equipment, pipe or duct properly protected from incidental damage and weather damage.

C. Damaged equipment shall be promptly removed from the site and new, undamaged equipment shall be installed in its place promptly with no additional charge to the Owner.

1.12 SUBMITTALS

A. Coordinate with Division 01 for submittal timetable requirements, unless noted otherwise within thirty (30) days after the Contract is awarded. The Contractor shall submit an electronic copy of a complete set of shop drawings and complete data covering each item of equipment or material. The submittal of each item requiring a submittal must be received by the Architect or Engineer within the above thirty day period. The Architect or Engineer shall not be responsible for any delays or costs incurred due to excessive shop drawing review time for submittals received after the thirty (30) day time limit. The Architect and Engineer will retain a copy of all shop drawings for their files. All literature pertaining to items subject to Shop Drawing submittal shall be submitted at one time. Submittals shall be placed in one electronic file in PDF 8.0 format and bookmarked for individual specification sections. Individual electronic files of submittals for individual specifications shall not be permitted. Each submittal shall include the following items:

1. A cover sheet with the names and addresses of the Project, Architect, MEP Engineer, General Contractor and the Subcontractor making the submittal. The cover sheet shall also contain the section number covering the item or items submitted and the item nomenclature or description.
2. An index page with a listing of all data included in the Submittal.
3. A list of variations page with a listing all variations, including unfurnished or additional required accessories, items or other features, between the submitted equipment and the specified equipment. If there are no variations, then this page shall state "NO VARIATIONS". Where variations affect the work of other Contractors, then the Contractor shall certify on this page that these variations have been fully coordinated with the affected Contractors and that all expenses associated with the variations will be paid by the submitting Contractor. This page will be signed by the submitting Contractor.
4. Equipment information including manufacturer's name and designation, size, performance and capacity data as applicable. All applicable Listings, Labels, Approvals and Standards shall be clearly indicated.
5. Dimensional data and scaled drawings as applicable to show that the submitted equipment will fit the space available with all required Code and maintenance clearances clearly indicated and labeled at a minimum scale of 1/4" = 1'-0", as required to demonstrate that the alternate or substituted product will fit in the space available.
6. Identification of each item of material or equipment matching that indicated on the Drawings.

7. Sufficient pictorial, descriptive and diagrammatic data on each item to show its conformance with the Drawings and Specifications. Any options or special requirements or accessories shall be so indicated. All applicable information shall be clearly indicated with arrows or another approved method.
8. Additional information as required in other Sections of this Division.
9. Certification by the General Contractor and Subcontractor that the material submitted is in accordance with the Drawings and Specifications, signed and dated in long hand. Submittals that do not comply with the above requirements shall be returned to the Contractor and shall be marked "REVISE AND RESUBMIT".

B. Refer to Division 1 for additional information on shop drawings and submittals.

C. Equipment and materials submittals and shop drawings will be reviewed for compliance with design concept only. It will be assumed that the submitting Contractor has verified that all items submitted can be installed in the space allotted. Review of shop drawings and submittals shall not be considered as a verification or guarantee of measurements or building conditions.

D. Where shop drawings and submittals are marked "REVIEWED", the review of the submittal does not indicate that submittals have been checked in detail nor does it in any way relieve the Contractor from his responsibility to furnish material and perform work as required by the Contract Documents.

E. Shop drawings shall be reviewed and returned to the Contractor with one of the following categories indicated:

1. REVIEWED: Contractor need take no further submittal action, shall include this submittal in the O&M manual and may order the equipment submitted on.
2. REVIEWED AS NOTED: Contractor shall submit a letter verifying that required exceptions to the submittal have been received and complied with including additional accessories or coordination action as noted, and shall include this submittal and compliance letter in the O&M manual. The contractor may order the equipment submitted on at the time of the returned submittal providing the Contractor complies with the exceptions noted.
3. and/or drawings. Contractor shall not order equipment that is not approved. Repetitive requests for substitutions will not be considered.
4. REVISE AND RESUBMIT: Contractor shall resubmit new submittal on material, equipment or method of installation when the alternate or substitute is marked revise and resubmit, the Contractor will automatically be required to furnish the product, material or method named in the Specifications and/or provide as noted on previous shop drawings. Contractor shall not order equipment marked revise and resubmit. Repetitive requests for substitutions will not be considered.
5. CONTRACTOR'S CERTIFICATION REQUIRED: Contractor shall resubmit submittal on material, equipment or method of installation. The Contractor's stamp is required stating the submittal meets all conditions of the contract documents. The stamp shall be signed by the General Contractor. The submittal will not be reviewed if the stamp is not placed and signed on all shop drawings.

6. MANUFACTURER NOT AS SPECIFIED: Contractor shall resubmit new submittal on material, equipment or method of installation when the alternate or substitute is marked manufacturer not as specified, the Contractor will automatically be required to furnish the product, material or method named in the specifications. Contractor shall not order equipment where submittal is marked manufacturer not as specified. Repetitive requests for substitutions will not be considered.

F. Materials and equipment which are purchased or installed without shop drawing review shall be at the risk of the Contractor and the cost for removal and replacement of such materials and equipment and related work which is judged unsatisfactory by the Owner or Engineer for any reason shall be at the expense of the Contractor. The responsible Contractor shall remove the material and equipment noted above and replace with specified equipment or material at his own expense when directed in writing by the Architect or Engineer.

G. Shop Drawing Submittals shall be complete and checked prior to submission to the Engineer for review.

H. Furnish detailed shop drawings, descriptive literature, physical data and a specification critique for each section indicating "compliance" and/or "variations" for the following items:

1. Fire Alarm System
2. Intrusion System

I. Refer to each specification section for additional requirements.

1.13 OPERATION AND MAINTENANCE MANUALS

A. Prepare maintenance manuals in accordance with Division 1 and in addition to the requirements specified in Division 1, include the following information for equipment items:

1. Description of function, normal operating characteristics and limitations, performance curves, engineering data and tests, and complete nomenclature and commercial numbers of replacement parts.
2. Manufacturer's printed operating procedures to include start-up, break-in, and routine and normal operating instructions; regulation, control, stopping, shutdown, and emergency instructions; and summer and winter operating instructions.
3. Maintenance procedures for routine preventative maintenance and troubleshooting; disassembly, repair, and reassembly; aligning and adjusting instructions.
4. Servicing instructions and lubrication charts and schedules.

1.14 COORDINATION DRAWINGS

A. Prepare coordination drawings to a scale of 1/4"=1'-0" or larger; detailing major elements, components, and systems of mechanical equipment and materials in relationship with other systems, installations, and building components. Indicate locations where space is limited for installation and access and where sequencing and coordination of installations are of importance to the efficient flow of the Work, including (but not necessarily limited to) the following:

1. Indicate the proposed locations of pipe, duct, equipment, and other materials. Include the following:
   a. Wall and type locations.
   b. Clearances for installing and maintaining insulation.
   c. Locations of light fixtures and sprinkler heads.
   d. Clearances for servicing and maintaining equipment, including tube removal, filter removal, and space for equipment disassembly required for periodic maintenance.
   e. Equipment connections and support details.
   f. Exterior wall and foundation penetrations.
   g. Routing of storm and sanitary sewer piping.
   h. Fire-rated wall and floor penetrations.
   i. Sizes and location of required concrete pads and bases.
   j. Valve stem movement.
   k. Structural floor, wall and roof opening sizes and details.
2. Indicate scheduling, sequencing, movement, and positioning of large equipment into the building during construction.
3. Prepare floor plans, elevations, and details to indicate penetrations in floors, walls, and ceilings and their relationship to other penetrations and installations.
4. Prepare reflected ceiling plans to coordinate and integrate installations, air distribution devices, light fixtures, communication systems components, and other ceiling-mounted items.

B. This Contractor shall be responsible for coordination of all items that will affect the installation of the work of this Division. This coordination shall include, but not be limited to: voltage, ampacity, capacity, electrical and piping connections, space requirements, sequence of construction, building requirements and special conditions.

C. By submitting shop drawings on the project, this Contractor is indicating that all necessary coordination has been completed and that the systems, products and equipment submitted can be installed in the building and will operate as specified and intended, in full coordination with all other Contractors and Subcontractors.

1.15 RECORD DRAWINGS

A. Prepare Record Documents in accordance with the requirements of Division 00 and Division 01, in addition to the requirements specified in Division 26 and Division 28.

B. The Contractor shall maintain a separate set of clearly and legibly marked Record Drawings on the job site to record all changes and modifications, including, but not limited to the following: work details, alterations to meet site conditions, and changes made by "Change Order" notices. Mark the drawings with colored pencil(s). These shall be available for review by the Owner, Architect or Engineer during the entire construction stage.

C. The Record Drawings shall be updated concurrently as construction progresses, and in no case less frequently than a daily basis. They shall indicate accurate dimensions for all buried or concealed work, precise locations of all concealed pipe or duct, locations of all concealed valves, controls and devices and any deviations from the work shown on the Construction Documents. All dimensions shall include at least two dimensions to permanent structure points.

D. Engage the services of a Land Surveyor or Professional Engineer registered in the state in which the project is located as specified herein to record the locations and invert elevations of underground installations.

E. If the Contractor does not keep an accurate set of Record Drawings, the pay request may be altered or delayed at the request of the Architect. Delivery of Record Documents is a condition of final acceptance. Record Drawings shall be furnished in addition to Shop Drawings.

F. The Contractor shall submit an electronic copy of the record documents in PDF format and one (1) full size set of Record Drawing prints to the Architect or Engineer for review prior to scheduling the final inspection at the completion of the work. The drawings shall have the name(s) and seal(s) of the Engineer(s) removed or blanked out and shall be clearly marked and signed on each sheet as follows:

CERTIFIED RECORD DRAWINGS
DATE:
(NAME OF GENERAL CONTRACTOR)
BY:_____
(SIGNATURE)
(NAME OF SUBCONTRACTOR)
BY:_____
(SIGNATURE)

1.16 CERTIFICATIONS AND TEST REPORTS

A. Submit a detailed schedule for completion and testing of each system indicating scheduled dates for completion of system installation and outlining tests to be performed and schedule date for each test. This detailed completion and test schedule shall be submittal at least 90 days before the projected Project completion date.

B. Test result reporting forms shall be submitted for review no later than the date of the detailed schedule submitted.

C. Submit 4 copies of all certifications and test reports to the Architect or Engineer for review adequately in advance of completion of the Work to allow for remedial action as required to correct deficiencies discovered in equipment and systems.

D. Certifications and test reports to be submitted shall include, but not be limited to those items outlined in Section of Division 26.

1.17 MAINTENANCE MANUALS

A. Coordinate with Division 1 for maintenance manual requirements, unless noted otherwise bind together in "D ring type" binders by National model no. 79-883 or equal, binders shall be large enough to allow ¼" of spare capacity. Three (3) sets of all approved shop drawing submittals, fabrication drawings, bulletins, maintenance instructions, operating instructions and parts exploded views and lists for each and every piece of equipment furnished under this Specification. All sections shall be typed and indexed into sections and labeled for easy reference and shall utilize the individual specification section numbers shown in the Electrical Specifications as an organization guideline. Bulletins containing information about equipment that is not installed on the project shall be properly marked up or stripped and reassembled. All pertinent information required by the Owner for proper operation and maintenance of equipment supplied by Division 26 shall be clearly and legibly set forth in memoranda that shall, likewise, be bound with bulletins.

B. Prepare maintenance manuals in accordance with Special Project Conditions, in addition to the requirements specified in Division 26 and Division 2, include the following information for equipment items:

1. Identifying names, name tags designations and locations for all equipment.
2. Reviewed shop drawing submittals with exceptions noted compliance letter.
3. Fabrication drawings.
4. Equipment and device bulletins and data sheets clearly highlighted to show equipment installed on the project and including performance curves and data as applicable, i.e., description of function, normal operating characteristics and limitations, performance curves, engineering data and tests, and complete nomenclature and model numbers of replacement parts.
5. Manufacturer's printed operating procedures to include start-up, break-in, and routine and normal operating instructions; regulation, control, stopping, shutdown, and emergency instructions; and summer and winter operating instructions.
6. Maintenance procedures for routine preventative maintenance and troubleshooting; disassembly, repair, and reassembly; aligning and adjusting instructions, servicing instructions and lubrication charts and schedules.
7. Equipment name plate data.
8. Wiring diagrams.
9. Exploded parts views and parts lists for all equipment and devices.
10. Color coding charts for all painted equipment and conduit.
11. Location and listing of all spare parts and special keys and tools furnished to the Owner.
12. Furnish recommended lubrication schedule for all required lubrication points with listing of type and approximate amount of lubricant required.

C. Refer to Division 1 for additional information on Operating and Maintenance Manuals.

D. Operating and Maintenance Manuals shall be turned over to the Owner or Engineer a minimum of 14 working days prior to the beginning of the operator training period.

1.18 OPERATOR TRAINING

A. The Contractor shall furnish the services of factory trained specialists to instruct the Owner's operating personnel. The Owner's operator training shall include 12 hours of onsite training in three 4 hour shifts.

B. Before proceeding with the instruction of Owner Personnel, prepare a typed outline in triplicate, listing the subjects that will be covered in this instruction, and submit the outline for review by the Owner. At the conclusion of the instruction period obtain the signature of each person being instructed on each copy of the reviewed outline to signify that he has a proper understanding of the operation and maintenance of the systems and resubmit the signed outlines.

C. Refer to other Division 26 Sections for additional Operator Training requirements.

1.19 SITE VISITATION

A. Visit the site of the proposed construction in order to fully understand the facilities, difficulties and restriction attending the execution of the work.

B. Before submitting a bid, it will be necessary for each Contractor whose work is involved to visit the site and ascertain for himself the conditions to be met therein in installing his work and make due provision for same in his bid. It will be assumed that this Contractor in submitting his bid has visited the premises and that his bid covers all work necessary to properly install the equipment shown. Failure on the part of the Contractor to comply with this requirement shall not be considered justification for the omission or faulty installation of any work covered by these Specifications and Drawings.

C. Understand the existing utilities from which services will be supplied; verify locations of utility services and determine requirements for connections.

D. Determine in advance that equipment and materials proposed for installation fit into the confines indicated.

1.20 WARRANTY

A. The undertaking of the work described in this Division shall be considered equivalent to the issuance, as part of this work, of a specific guarantee extending one year beyond the date of completion of work and acceptance by Owner, against defects in materials and workmanship. Materials, appliances and labor necessary to effect repairs and replacement so as to maintain said work in good functioning order shall be provided as required. Replacements necessitated by normal wear in use or by Owner's abuse are not included under this guarantee.

B. All normal and extended warranties shall include parts, labor, miscellaneous materials, travel time, incidental expenses, freight/shipping, refrigerant, oils, lubricants, belts, filters and any expenses related to service call required to diagnose warranty problems.

1.21 TRANSFER OF ELECTRONIC FILES

A. Project documents are not intended or represented to be suitable for reuse by Architect/Owner or others on extensions of this project or on any other project. Any such reuse or modification without written verification or adaptation by Engineer, as appropriate for the specific purpose intended, will be at Architect/Owner's risk and without liability or legal exposure to Engineer or its consultants from all claims, damages, losses and expense, including attorney's fees arising out of or resulting thereof.

B. Because data stored in electric media format can deteriorate or be modified inadvertently, or otherwise without authorization of the data's creator, the party receiving the electronic files agrees that it will perform acceptance tests or procedures within sixty (60) days of receipt, after which time the receiving party shall be deemed to have accepted the data thus transferred to be acceptable. Any errors detected within the sixty (60) day acceptance period will be corrected by the party delivering the electronic files. Engineer is not responsible for maintaining documents stored in electronic media format after acceptance by the Architect/Owner.

C. When transferring documents in electronic media format, Engineer makes no representations as to the long term compatibility, usability or readability of documents resulting from the use of software application packages, operating systems, or computer hardware differing from those used by Engineer at the beginning of the Project.

D. Any reuse or modifications will be Contractor's sole risk and without liability or legal exposure to Architect, Engineer or any consultant.

E. The Texas Board of Architectural Examiners (TBAE) has stated that it is in violation of Texas law for persons other than the Architect of record to revise the Architectural drawings without the Architect's written consent.

1. It is agreed that "MEP" hard copy or computer-generated documents will not be issued to any other party except directly to the Architect/Owner. The contract documents are contractually copyrighted and cannot be used for any other project or purpose except as specifically indicated in AIA B-141 Standard Form of Agreement Between Architect and Owner.
2. If the client, Architect or Owner of the project requires electronic media for "record purposes", then AutoCAD/ Revit documents will be prepared by Engineer on electronic media such as removable memory devices, flash drives or CD's. These documents can also be submitted via file transfer protocols. AutoCAD/ Revit files will be submitted with all title block references intact to permit the end user to only view and plot the drawings. Revisions will not be permitted in this configuration.
3. At the Architect/Owner's request, Engineer will assist the Contractor in the preparation of the submittals and prepare one copy of AutoCAD/ Revit files on electronic media or submit through file transfer protocols. The electronic media will be prepared with all indicia of documents ownership removed. The electronic media will be prepared in a ".rvt" or ".dwg" format to permit the end user to revise the drawings.

PART 2 - PRODUCTS

2.1 SUBSTITUTIONS

A. The names and manufacturers and model numbers have been used in the Contract documents to establish types of equipment and standards of quality. Where more than one manufacturer is named for a specific item of equipment, only one of the specified manufacturers will be considered for approval. Where only one manufacturer is mentioned with the phrase "or approved equal", Contractor may submit an alternate manufacturer for consideration, provided the following conditions are met:

1. Submit alternate equipment with complete descriptive data in shop drawing form. Provide sample of equipment upon request for review by Architect. Samples will be returned if requested in writing.
2. Alternate equipment must be equal from the standpoint of materials, construction and performance.
3. Alternate submittal must be presented to the Engineer/Architect ten (10) days prior to bid date for approval.

B. The Architect and Engineer shall be the sole judge of quality and equivalence of equipment, materials and methods.

2.2 UL LISTING

A. All materials and products used on this project shall be listed by Underwriters' Laboratories.

2.3 ACCESS DOORS

A. Wherever access is required in walls or ceilings to concealed junction boxes, pull boxes, equipment, etc., installed under this Division, furnish a hinged access door and frame with flush latch handle to another Division for installation. Doors shall be as follows:

1. Plaster Surfaces: Milcor Style K.
2. Ceramic Tile Surfaces: Milcor Style M.
3. Drywall Surfaces: Milcor Style DW.
4. Install panels only in locations approved by the Architect.

2.4 ESCUTCHEONS

A. Provide heavy chrome or nickel plated plates, of approved pattern, on conduit passing through walls, floors and ceilings in finished areas. Where conduit passes through a sleeve, no point of the conduit shall touch the building construction. Caulk around such conduit with sufficient layers of two hour rated firesafing by Thermafiber 4.0 P.C.F. density, U.S.G. fire test 4/11/78 and seal off openings between conduit and sleeves with non-hardening mastic prior to application of escutcheon plate. Escutcheons shall be Gravler Sure-Lock, or approved equal.

2.5 SPACE LIMITATIONS

A. Equipment shall be chosen which shall properly fit into the physical space provided and shown on the drawings, allowing ample room for access, servicing, removal and replacement of parts, etc. Adequate space shall be allowed for clearances in accordance with Code requirements. Physical dimensions and arrangement of equipment shall be subject to the approval of the Architect.

2.6 PAINTING

A. All factory assembled equipment for electrical work, except light fixtures, that normally is delivered with a factory applied finish shall be delivered with a hard surface factory applied finish such as baked-on machinery enamel which will not require additional field painting. The finish shall consist of not less than 2 coats of medium gray color paint USA No. 61 Munsell Notation 8-3G, 6. 10/0.54 enamel. This Contractor shall protect this finish from damage due to construction operations until acceptance of the building. He shall be responsible for satisfactorily restoring any such finishes or replacing equipment that becomes stained or damaged.

2.7 RACEWAY IDENTIFICATION

A. Conduit Systems: Provide adequate marking of major conduit which is exposed or concealed in accessible spaces to distinguish each run as either a power or signal/communication conduit. Use red banding with black lettering except as otherwise indicated. Provide self-adhesive or snap-on type plastic markers. Locate markers at ends of conduit runs, on pull boxes, on junction boxes and other control devices, near items of equipment served by the conductors, at points where conduit passes through walls or floors or enters non-accessible construction and at spacings of not more than 50 feet along each run of conduit.

B. Underground Cable Identification: Bury a continuous, preprinted, bright colored plastic ribbon cable marker with each underground cable (or group of cables), regardless of whether conductors are in conduit, duct bank, or direct buried. Locate each directly over cables, 6 to 8 inches below finished grade.

C. Identification of Equipment:

1. All major equipment shall have a manufacturer's label identifying the manufacturer's address, equipment model and serial numbers, equipment size, and other pertinent data. Care shall be taken not to obliterate this nameplate in any way.
2. Prohibited Markings: Markings which are intended to identify the manufacturer, vendor, or other source from which the material has been obtained are prohibited for installation within public, tenant, or common areas within the project. Also, prohibited are materials or devices which bear evidence that markings or insignias have been removed. Certification, testing (example, Underwriters' Laboratories, Inc.), and approval labels are exceptions to this requirement.

3. Warning Signs: Provide warning signs where there is hazardous exposure associated with access to or operation of facilities. Provide text of sufficient clarity and lettering of sufficient size to convey adequate information at each location; mount permanently in an appropriate and effective location. Comply with recognized industry standards for color and design.
4. Operational Tags: Where needed for proper and adequate information on operation and maintenance of electrical system, provide tags of plasticized card stock, either preprinted or hand printed.

PART 3 - EXECUTION

3.1 EXCAVATING AND BACKFILLING

A. Trenching and backfilling and other earthwork operations required to install the facilities specified herein shall conform to the applicable requirements of Division 2 (95% of maximum standard density). Where trenching or excavation is required in improved areas, the backfill shall be compacted to a condition equal to that of adjacent undisturbed earth and the surface of the area restored to the condition existing prior to trenching or excavating operations. Provide a minimum of 3" of sand underneath all conduits. The plans indicate information pertaining to surface and sub-surface obstructions; however, this information is not guaranteed. Should obstructions be encountered whether or not shown, the Contractor shall alter routing of new work, reroute existing lines, remove obstructions where permitted, or otherwise perform whatever work is necessary to satisfy the purpose of new work and leave existing surfaces and structures in a satisfactory and serviceable condition. All work shall comply with OSHA Standards.

3.2 WORKMANSHIP AND CONCEALMENT

A. The work of this Section shall be performed by workman skilled in their trade. Installation shall be consistent in completeness whether concealed or exposed. Each item of electrical work shall be concealed in walls, chases, under floors and above ceilings except:

1. Where shown to be exposed.
2. Where exposure is necessary to the proper function.

B. Where mounting heights are not detailed or dimensioned, install systems, associated wall sleeves and materials to provide the maximum headroom possible.

3.3 SLEEVES, CUTTING AND PATCHING

A. This section shall be responsible for placing sleeves for all conduit passing through walls, partitions, sound walls, beams, floors, roof, etc. Sleeves through below-grade walls shall use water-tight fitting manufactured by O-Z/Gedney.

B. All cutting and patching will be done under another Division, but this Section will be responsible for timely performance of this work and layout of holes and setting sleeves.

C. All un-used sleeves shall be sealed with 2 hour UL approved fire sealant manufactured by "3M" or approved equal.

D. Refer to 26 05 33 for additional requirements.

3.4 CONTROL PANELS

A. Install all Panels in accordance with the National Electrical Code, industry standards and as shown on the drawings.

B. Panels mounted in telecom, MDF, IDF, mechanical/electrical rooms shall be mounted at a working height not requiring a ladder when wall space is available. Installation of these devices at greater elevations shall be approved by the Engineer. Contractor shall provide a coordination sketch of each mechanical/electrical room noting locations and mounting heights of all electrical devices (note bottom and top elevations) shown to be installed. Sketches shall be provided to the Engineer for review and the general contractor for coordination with other trades working in these rooms.

3.5 CLEANING

A. Touch-up and refinish scratches and marred surfaces on panels.

3.6 CORROSIVE AREAS

A. In areas of a corrosive nature, which include but are not limited to the following: pool equipment rooms, cooling towers and areas subject to salt air, etc., provide NEMA 4X stainless steel or fiberglass reinforced enclosures for contactors, panel boards, controllers, starters, disconnects and materials used as supporting means (i.e. plastibond unistrut, pipe, fittings). The use of spray on coating may be acceptable in some applications.

3.7 TESTS AND INSPECTIONS

A. Tests and inspection requirements shall be coordinated with Division 01.

B. Date for final acceptance test shall be sufficiently in advance of completion date of contract to permit alterations or adjustments necessary to achieve proper functioning of equipment prior to contract completion date.

C. Conduct re-tests as directed by Architect on portions of work or equipment altered or adjusted as determined to be necessary by final acceptance test. No resultant delay or consumption of time as a result of such necessary re-test beyond contract completion date shall relieve Contractor of his responsibility under contract.

D. Put equipment into service under normal conditions, collectively and separately, as may be required to determine satisfactory operation. Demonstrate equipment to operate in accordance with requirements of these specifications. Perform tests in the presence of Architect. Furnish instruments and personnel required for tests.

E. Final Inspection

1. At the time designated by the Architect, the entire system shall be inspected by the Architect and Engineer. The contractor or his representative shall be present at this inspection.
2. Panels shall be cleaned and in operating condition.
3. Certificates and documents required hereinbefore shall be in order and presented to the Architect prior to inspection.

4. Panel covers, junction box covers, etc., shall be removed for visual inspection of the wire, bus bars, etc.
5. After the inspection, any items which are noted as needing to be changed or corrected in order to comply with these specifications and the drawings shall be accomplished without delay.

END OF SECTION

BENCHMARK, CONTROL POINT, IRON ROD FOUND				
Point #	Elevation	Northing	Easting	Description
6	1062.79	13924227.22	2252928.75	CP/SIR
7	1082.00	13925046.68	2252846.21	FIR
8	1076.79	13925308.38	2252701.43	FCM/BUSTED
9	1071.09	13925271.70	2252630.39	FCM/BUSTED
10	1081.50	13925044.24	2252836.51	FIR
11	1084.16	13924979.59	2252869.35	FCM
13	1018.37	13925089.00	2255137.22	FIR
14	1024.33	13925131.52	2255075.18	FMFP/5.5"
16	1017.20	13925137.89	2255222.05	FIR
17	1018.90	13925123.69	2255129.33	FIR
18	1017.90	13925086.83	2255106.06	FIR
19	1016.00	13925091.36	2255172.63	FIR/IN ASPH
20	1015.86	13925080.59	2255188.42	FIR
21	1010.14	13925058.92	2255305.25	FIR/3-8
22	1011.73	13925118.02	2255315.49	FIR/3-8
24	1034.70	13925103.04	2254679.20	FIR/PC
25	1003.70	13924651.08	2255163.14	FIR
26	1002.28	13924625.70	2255190.98	FIP/1"
27	1003.60	13924632.08	2255161.72	BEEP/PF ON 3
28	1000.69	13924622.44	2255221.76	FIR
29	999.83	13924487.15	2255180.43	FIP/1" IN 14" LO
30	1001.76	13924575.60	2255186.58	FIR
31	994.28	13924173.22	2255182.12	FIP/1"
32	993.10	13924197.74	2255232.64	FIP/1"
33	993.20	13924025.45	2255242.14	FIP/1"
34	999.22	13923726.10	2255245.65	FIP/1"
35	996.80	13923455.33	2255248.83	FIR
36	997.76	13923126.07	2255251.98	FIR
37	995.77	13922621.86	2255253.62	LO 17"
38	994.17	13922619.03	2255255.71	F60D
39	987.10	13922292.63	2255254.99	FIR
40	970.01	13922280.11	2254696.76	FIR/AD HAYS COUNTY
41	1000.04	13923773.93	2252914.72	FCM
42	1000.85	13922771.68	2252835.39	FCM
44	1062.89	13924067.35	2252874.45	FCM
45	1064.94	13924064.93	2252794.36	FCM
46	1088.07	13924465.28	2252823.63	FCM
47	1079.05	13924593.24	2252926.86	FCM
48	1095.27	13924606.81	2252848.81	FCM
49	1075.49	13924451.59	2252902.18	FCM
291	983.15	13922240.51	2252908.48	LAI
293	983.16	13922190.96	2255215.20	LAI
294	985.18	13922174.84	2255255.77	LAI
295	986.48	13922193.04	2255256.21	FIR
311	1004.38	13921325.39	2252897.02	FCM



0 75 150 300

SCALE (FEET)

LEGEND

- IRF — IRON ROD FOUND (SIZE NOTED)
- CONTROL/CALCULATED POINT
- BENCHMARK
- EXIST ELECTRIC METER
- EXIST POWER POLE
- EXIST GUY ANCHOR
- PROPERTY LINE
- ADJOINER LINE
- EXIST EDGE OF PAVEMENT
- EXIST BARBED WIRE FENCE
- EXIST WOOD FENCE
- EXIST WATER LINE
- EXIST OVERHEAD ELECTRIC
- EXIST OVERHEAD ELECTRIC/COMMUNICATION
- EXIST MAJOR CONTOUR
- EXIST MINOR CONTOUR
- EXIST CONCRETE
- EXIST STONE/ROCK
- EXIST BUILDING
- EXIST TO BE DEMOED
- EXIST TO BE DEMOLISHED

DEMOLITION PLAN NOTES:

1. PRIOR TO START OF CONSTRUCTION ACTIVITIES, CONTRACTOR SHALL CONSTRUCT ALL REQUIRED EROSION CONTROL AND TREE PROTECTION MEASURES AS INDICATED ON STORM WATER POLLUTION PREVENTION PLAN AND/OR LANDSCAPE ARCHITECT DRAWINGS.
2. PRIOR TO START OF CONSTRUCTION, CONTRACTOR SHALL COORDINATE WITH LOCAL TV, ELECTRIC, GAS, WATER, SEWER AND PHONE PROVIDERS AS REQUIRED TO PROVIDE SERVICE TO THE PROJECT SITE.
3. CONTRACTOR SHALL CONTACT 1-800-DIG-TESS A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION ACTIVITY (ON OR OFFSITE) FOR THE PROJECT.
4. ANY GARBAGE OR DEBRIS SHALL BE REMOVED FROM THE PROJECT SITE.
5. REMOVAL , RELOCATION OR DISCONNECTION FROM A UTILITY SERVICE (ELECTRIC, GAS, WATER, SEWER, CABLE, TV, FIBER, ETC.) SHALL BE COORDINATED WITH APPROPRIATE UTILITY SERVICE PROVIDER PRIOR TO START OF DEMOLITION ACTIVITIES.
6. CONTRACTOR SHALL PROPERLY DISPOSE OF ANY HAZARDOUS MATERIALS IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. FURTHERMORE, HAZARDOUS MATERIALS SHALL BE HANDLED BY PROPERLY LICENSED AND TRAINED HAZARDOUS MATERIAL SUB-CONTRACTORS/INDIVIDUALS.
7. CONTRACTOR SHALL COORDINATE ALL REMOVED ITEMS WITH OWNER. CONTRACTOR IS RESPONSIBLE FOR ALL DISPOSAL AND HAULING COSTS AND SHALL COMPLY WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS FOR DISPOSING OF DEMOLISHED MATERIALS.
8. TREE REMOVAL SHALL BE COORDINATED WITH OWNER OR OWNER'S REP PRIOR TO START OF CONSTRUCTION TO CONFIRM TREE REMOVAL LIMITS. ALL TREES LOCATED WITHIN THE BUILDING FOOTPRINT, PAVEMENT, UTILITIES, OR STORM FACILITIES SHALL BE REMOVED. ADDITIONAL TREES MAY BE REQUIRED TO BE REMOVED FROM GRADING (EXCAVATION/EMBANKMENT) AREAS AS REQUIRED PER THE SITE GRADING.
9. CONTRACTOR TO REMOVE BARBED WIRE FENCING AND POSTS ALONG RR 12 AND ANYWHERE WITHIN THE LIMITS OF CONSTRUCTION

2

CAUTION!

CONTRACTOR SHALL EXERCISE CAUTION DURING DEMOLITION, EXCAVATION, CLEARING AND CONSTRUCTION ACTIVITIES NEAR OVERHEAD ELECTRIC LINES. CONTRACTOR SHALL COMPLY WITH ALL SAFETY REGULATIONS WHEN OPERATING NEAR POWER LINES.

DIG TESS

CONTRACTOR SHALL CONTACT 1-800-DIG-TESS A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION ACTIVITY (ON OR OFFSITE) FOR THE PROJECT.

TRENCH EXCAVATION SAFETY PROTECTION

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ROSS T CORDER
STATE OF TEXAS
105421
LICENSED
PROFESSIONAL ENGINEER

20 OCTOBER 2026

No.	Date	Revisions	App.
1.	10/20/26	IFB SET	
2.	11/04/26	ADDENDUM No. 4	

HAYS COUNTY ESD NO. 4

FIRE STATION NO. 42

HCC JOB No.: 013-14 DRAWN BY:: TN

EXISTING CONDITIONS AND DEMOLITION PLAN

SHEET No.

3

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FIRE LANE STRIPING DETAIL

NTS

FIRE PROTECTION PLAN NOTES

1. THIS PLAN COMPLIES WITH HAYS COUNTY FIRE PROTECTION ORDINANCES. HOSE PULL BY TRUCK SHALL NOT EXCEED 350 LF AND 150 LF MAN PULL WHEN BUILDINGS ARE NOT PROTECTED BY A FIRE SPRINKLER SYSTEM, AND WHEN PROTECTED BY A FIRE PROTECTION SYSTEM 200 LF.

2. FIRE LANE STRIPING SHALL BE RED PAINT STRIPING WITH 4" TYPE D BLOCK WHITE LETTERING SPACED EVERY 40'. WHITE LETTERING SHALL STATE: "FIRE LANE - NO PARKING - TOW AWAY ZONE".

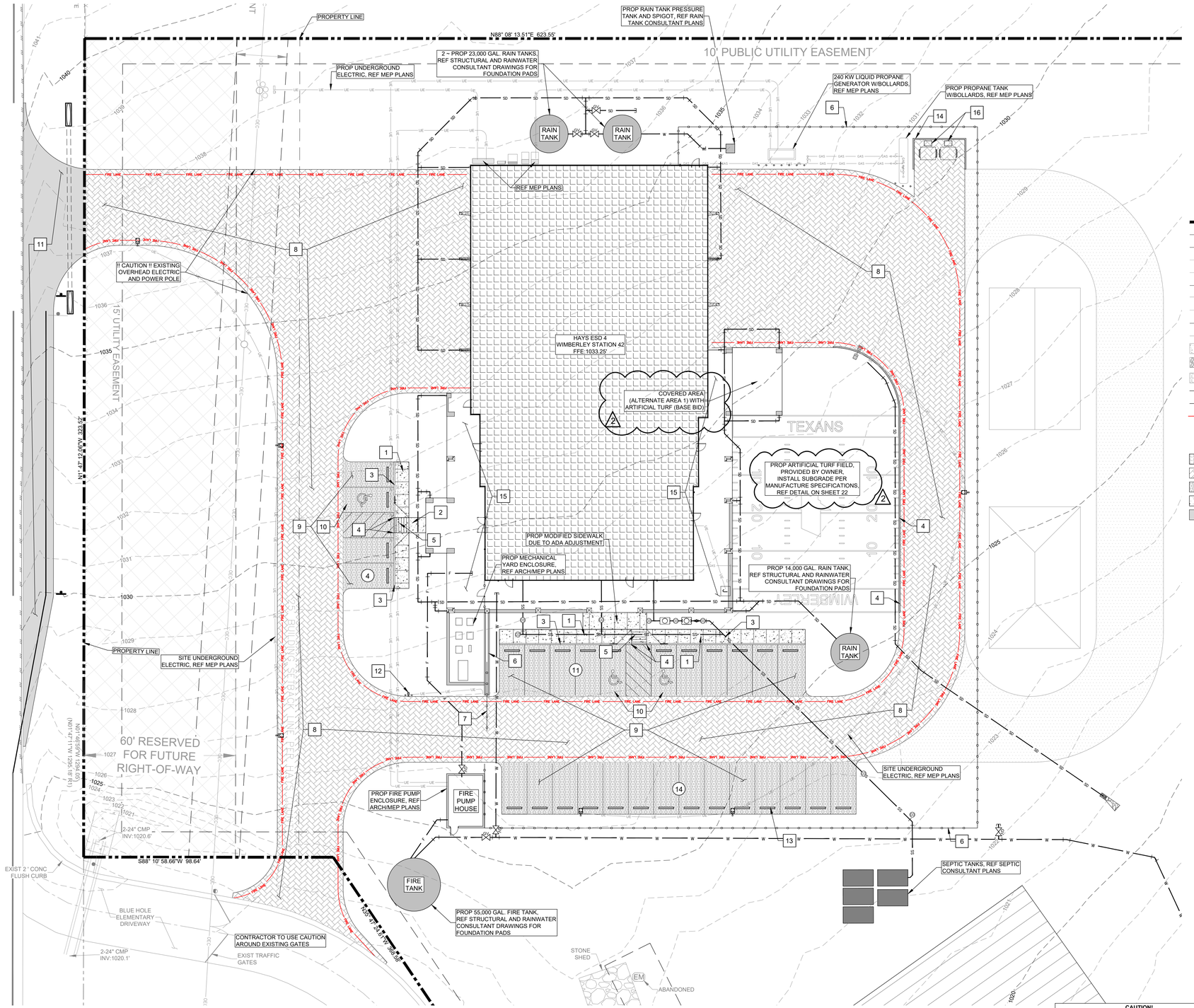
SITE SUMMARY TABLE	
LOT ACREAGE (ACRES)	6.99
IMPERVIOUS COVERAGE (SF)	61,206
IMPERVIOUS COVERAGE (%)	20
BUILDING HEIGHT	27' - 4.75"
BUILDING SQUARE FOOTAGE (SF)	14,737
PARKING COUNT	29
ADA PARKING COUNT	3

SITE PLAN NOTES

1. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE LOCAL BUILDING, SAFETY, AND INSPECTION REGULATIONS.
2. CONTRACTOR SHALL KEEP A COPY OF APPROVED CONSTRUCTION DRAWINGS ONSITE AT ALL TIMES.
3. ALL DIMENSIONS SHOWN ARE TO FACE OF CURB OR EDGE OF PAVEMENT UNLESS STATED OTHERWISE.
4. PRIOR TO START OF CONSTRUCTION, CONTRACTOR SHALL COORDINATE WITH LOCAL TV, ELECTRIC, GAS, WATER, SEWER AND PHONE PROVIDERS AS REQUIRED TO PROVIDE SERVICE TO THE PROJECT SITE.
5. CONTRACTOR SHALL CONTACT 1-800-DIG-TESS A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION ACTIVITY (ON OR OFFSITE) FOR THE PROJECT.
6. ALL RAMPS, ACCESSIBLE PATHS, AND ACCESSIBLE PARKING SPOTS SHALL BE IN COMPLIANCE WITH THE LATEST TEXAS ACCESSIBILITY STANDARDS (TAS).
7. WHEELSTOPS SHALL BE PRE-CAST CONCRETE AND AND 6' IN LENGTH, OR AS SPECIFICALLY CALLED OUT ON PLANS. FURTHERMORE, WHEELSTOPS SHALL BE DOWELED IN PLACE A MINIMUM OF 12" INTO PAVEMENT AND BASE SECTION. WHEEL STOPS TO BE OWNER INSTALLED.
8. CONTRACTOR SHALL COORDINATE WITH ELECTRICAL ENGINEER OR LIGHTING CONSULTANT FOR LAYOUT OF PARKING LOT LIGHTS.
9. ALL DUMPSTER PADS AND APRONS SHALL BE CONSTRUCTED OF 7" REINFORCED CONCRETE PAVEMENT, WITH #4 BARS, 18" O.C.E.W. REF. GEOTECH REPORT AND PAVEMENT SECTION FOR MORE INFORMATION.
10. DUMPSTER'S SHALL BE SCREENED FROM PUBLIC RIGHT-OF-WAY AND ADJACENT PROPERTIES. SCREENING SHALL BE A MINIMUM OF 7' TALL. GATES TO ACCESS DUMPSTER'S SHALL BE A MINIMUM OF 12' WIDE OR AS DETAILED ON ARCH DRAWINGS.

KEYNOTES

1	5.5' WIDE SIDEWALK, REF DTL ON SHT 22
2	6' WIDE SIDEWALK, REF DTL ON SHT 22
3	6" STANDARD CURB, REF DTL ON SHT 22
4	6" WIDE FLUSH CURB, REF DTL ON SHT 22
5	ADA RAMP, REF DTLS ON SHT 22
6	FENCE, REF ARCH SHEETS
7	GATE, REF ARCH SHEETS
8	HEAVY DUTY CONCRETE PAVEMENT, REF DTL ON SHT 22
9	LIGHT DUTY CONCRETE PAVEMENT, REF DTL ON SHT 22
10	ADA PARKING, REF DTLS ON SHT 22
11	TXDOT DRIVEWAY, REF SHT 23 & 24
12	CARD READER W/BOLLARDS, REF ARCH PLANS
13	WHEELSTOP (TYP), REF DTL ON SHT 22, OWNER TO PROVIDE AND INSTALL
14	DUMPSTER ENCLOSURE, REF ARCH SHEETS
15	STRUCTURAL SLAB/FLATWORK, REF STRUCTURAL SHEETS
16	LIMESTONE BUTTER BLOCKS, REF ARCH SHEETS



0 10 20 40
SCALE (FEET)

LEGEND

- IRF — IRON ROD FOUND (SIZE NOTED)
- CONTROL/CALCULATED POINT
- BENCHMARK
- EXIST ELECTRIC METER
- EXIST POWER POLE
- EXIST GUY ANCHOR
- PROPERTY LINE
- ADJOINER LINE
- EXIST EDGE OF PAVEMENT
- EXIST BARBED WIRE FENCE
- EXIST WOOD FENCE
- W — EXIST WATER LINE
- OE — EXIST OVERHEAD ELECTRIC
- OEC — EXIST OVERHEAD ELECTRIC/COMMUNICATION
- 910 — EXIST MAJOR CONTOUR
- 911 — EXIST MINOR CONTOUR
- EXIST CONCRETE
- EXIST STONE/ROCK
- EXIST BUILDING
- W — PROP WATER LINE
- SS — PROP SANITARY SEWER LINE
- FIRE LANE — PROP FIRE LANE
- PROP WHEELSTOP
- 9 — PARKING COUNT
- PROP BUILDING
- PROP HEAVY DUTY CONCRETE
- PROP LIGHT DUTY CONCRETE
- PROP CONCRETE SIDEWALK
- PROP TXDOT CONCRETE

CAUTION!

CONTRACTOR SHALL EXERCISE CAUTION DURING DEMOLITION, EXCAVATION, CLEARING AND CONSTRUCTION ACTIVITIES NEAR OVERHEAD ELECTRIC LINES. CONTRACTOR SHALL COMPLY WITH ALL SAFETY REGULATIONS WHEN OPERATING NEAR POWER LINES.

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HAYS COUNTY ESD NO. 4
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DRAWN BY: TN

SITE PLAN

SHEET No.
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OF 25

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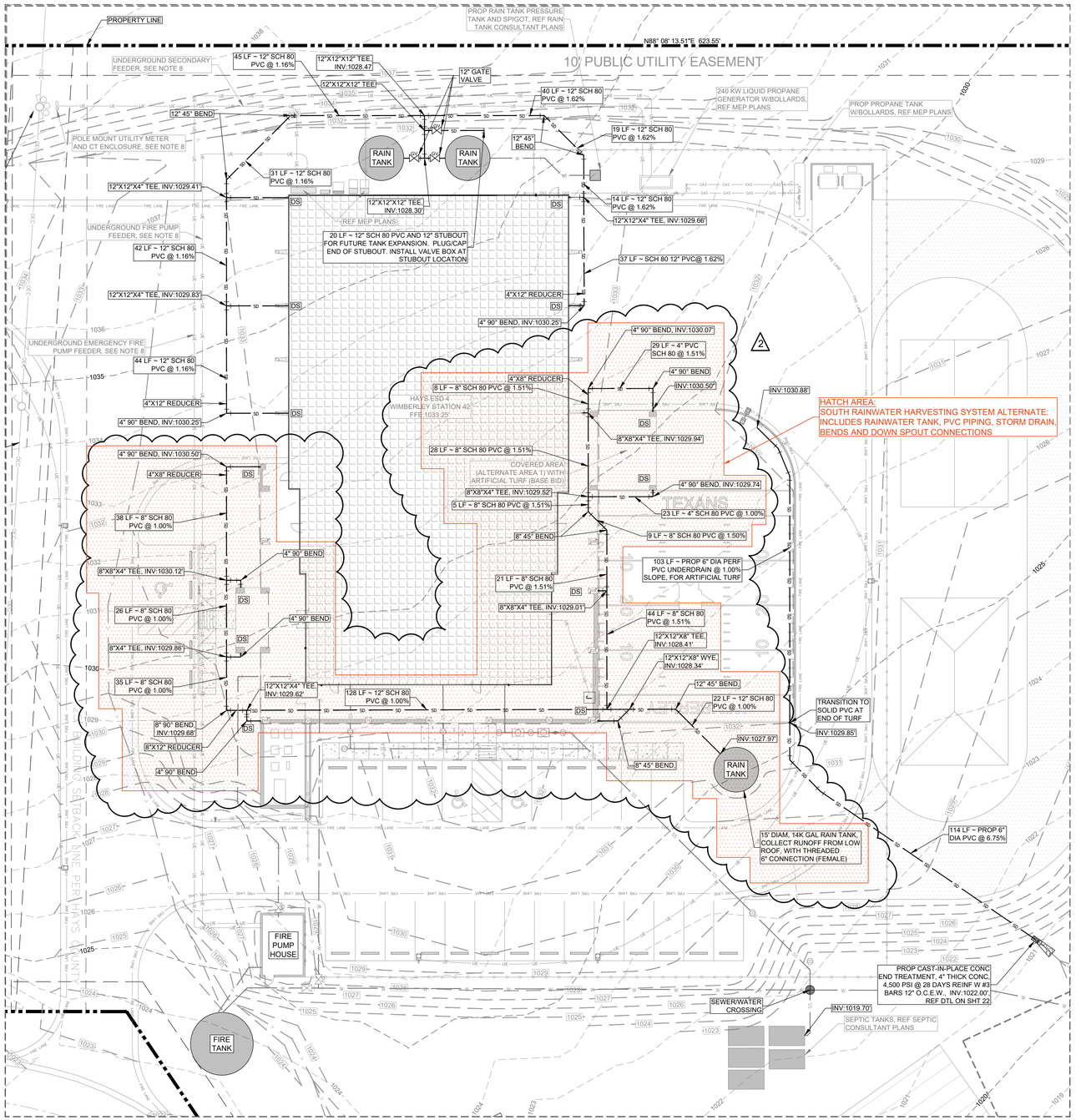
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SURVEY NOTE

SURVEY PREPARED BY:
DILLO DEV ON JUNE 12, 2025
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967 BROADWAY
NEW BRAUNFELS , TX 78130
PH: (830) 282-0333
TX SURVEYING FIRM NO. 10194711
JOB NO. 25072

TOPOGRAPHIC SURVEY

0.227 ACRES
BEING A PART OF LOT 10,
CHARLES & OLLIE OLDHAM SUBDIVISION,
VOLUME 142, PAGE 424
DEED RECORDS, HAYS COUNTY, TEXAS



TANKS ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR TO REFER TO RAINWATER TANK CONSULTANT PLANS FOR ALL RAINWATER AND FIRE TANK STORAGE. ADDITIONALLY, ANY CONTROLS, PUMPS AND APPURTENANCES FOR SYSTEM TO BE SPECIFIED BY RAINWATER COLLECTION SYSTEM CONSULTANT PLANS.

0 10 20 40
SCALE (FEET)

LEGEND

- IRF — IRON ROD FOUND (SIZE NOTED)
- CONTROL/CALCULATED POINT
- BENCHMARK
- EXIST ELECTRIC METER
- EXIST POWER POLE
- EXIST GUY ANCHOR
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- EXIST BUILDING
- 1025 — PROP MAJOR CONTOUR
- 1024 — PROP MINOR CONTOUR
- FIRE LANE — PROP FIRE LANE
- PROP WHEELSTOP
- PROP BUILDING
- PROP TOP OF BERM
- SD — STORM DRAIN LINE
- W — PROP WATER LINE
- F — PROP FIRE LINE
- WW — PROP WASTEWATER LINE

UTILITY NOTES

1. REFERENCE GENERAL NOTES SHEET FOR AQUA WATER SUPPLY CORPORATION NOTES.
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3. ALL WATER LINES (PLASTIC PIPE) SHALL BE PVC SCH 40 (ASTM D1785) SCH 80 (ASTM D1785). FIRE LINES OR WATER MAINS SHALL BE PVC C-909 OR APPROVED EQUAL.
4. ALL WASTEWATER (SEPTIC) LINES SHALL BE PVC SDR-26 UNLESS OTHERWISE NOTED.
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10. RAINWATER/FIRE TANKS TO BE INSTALLED BY CONTRACTOR.

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HAYS COUNTY ESD NO. 4
FIRE STATION NO. 42
HCC JOB No.: 013-14 DRAWN BY: TN

STORM DRAIN CONNECTION INSET

SHEET No.
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OF 25

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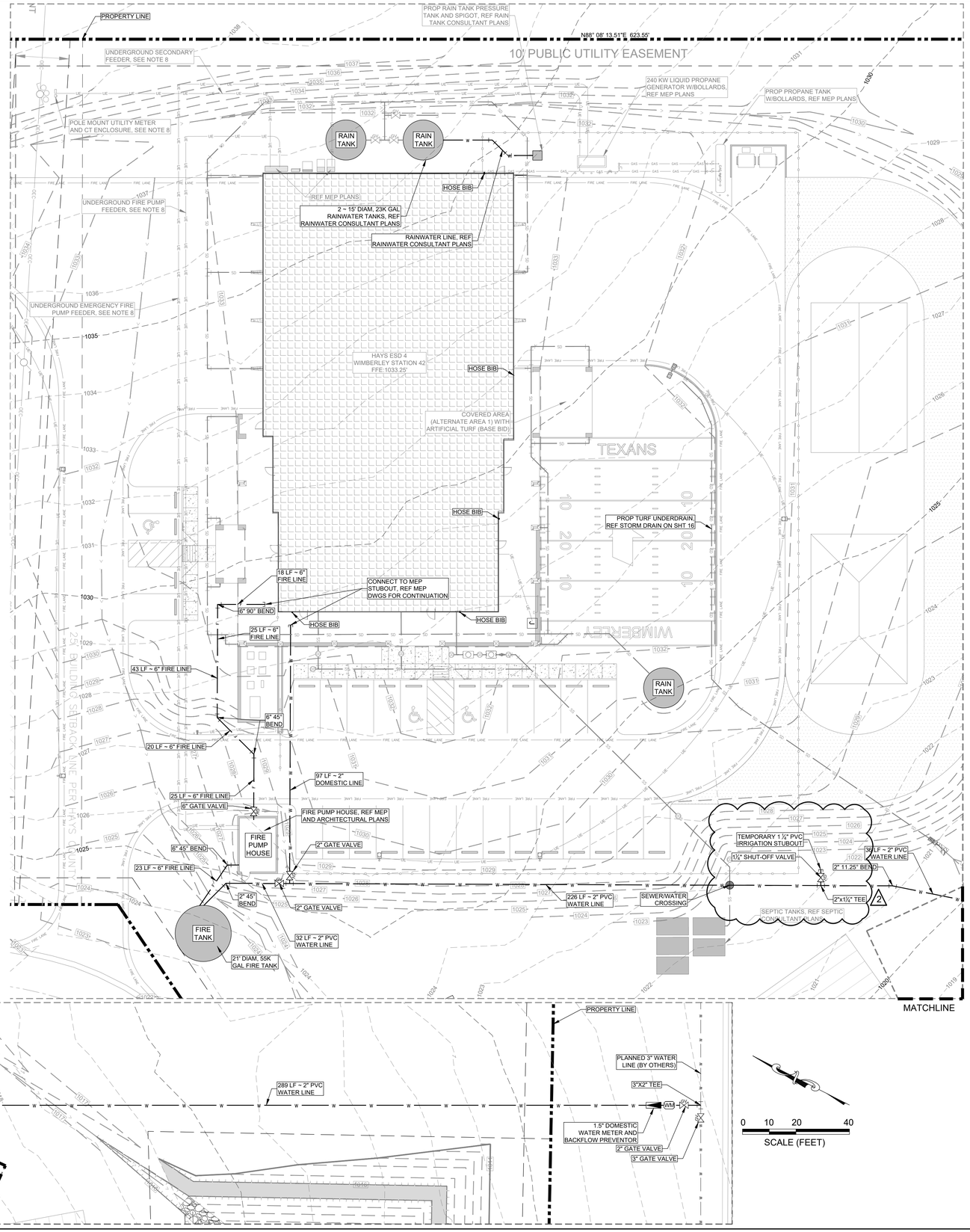
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BEING A PART OF LOT 10,
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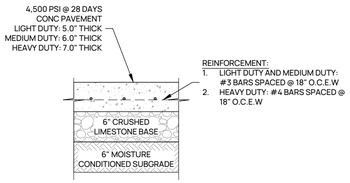
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DRAWN BY: TN

WATER CONNECTION INSET

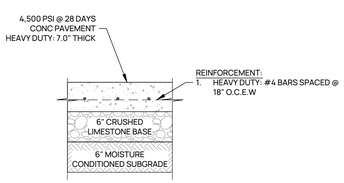
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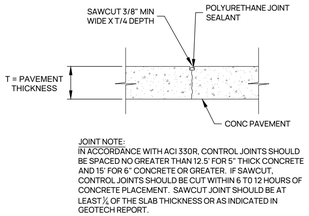
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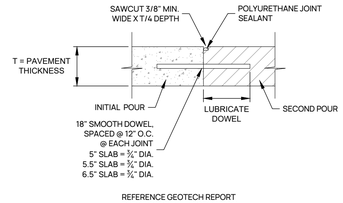
PAVEMENT SECTIONS
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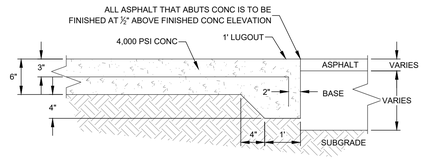
TXDOT PAVEMENT SECTION
N.T.S



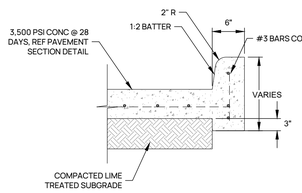
CONTROL JOINT DETAIL
N.T.S



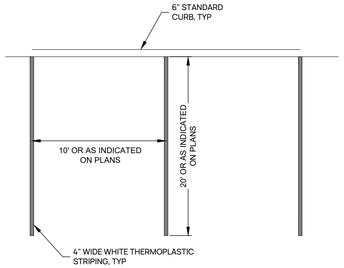
CONSTRUCTION JOINT DETAIL
N.T.S



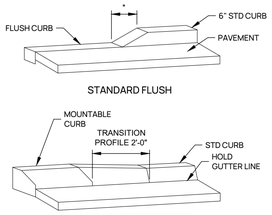
CONCRETE TO ASPHALT PAVING HEADER
N.T.S



STANDARD 6" CURB - CONCRETE PAVEMENT
N.T.S

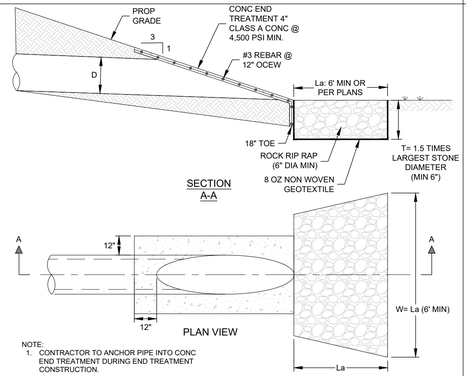


TYPICAL PARKING SPACE STRIPING
N.T.S

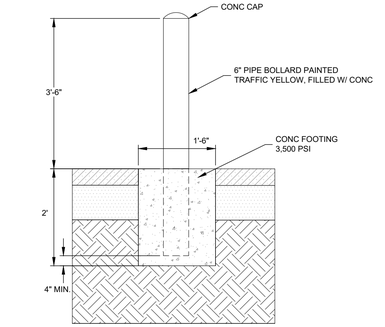


* - CURB TRANSITION SHALL BE 1' TYPICAL EXCEPT WHERE ABUTTING RAMP OR DRIVE MATCH GRADE OF ADJACENT CONSTRUCTION FEATURE. TRANSITION OVER DISTANCE AS INDICATED BY SPOT ELEVATIONS

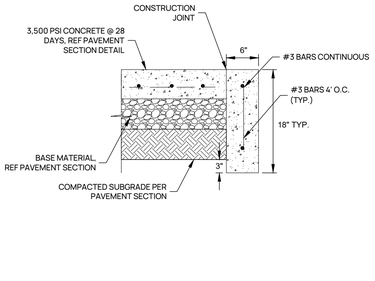
CURB TRANSITION DETAIL
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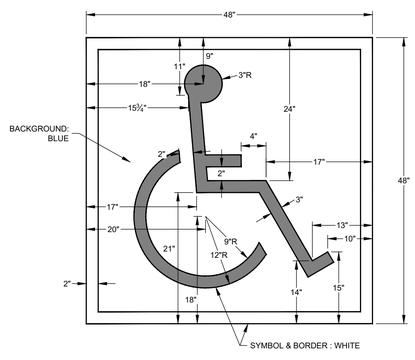
END TREATMENT AND RIP RAP DETAIL
N.T.S



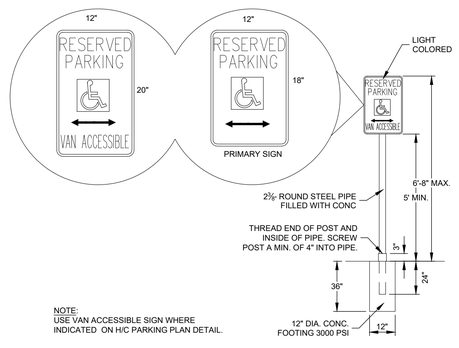
6" BOLLARD DETAIL
N.T.S



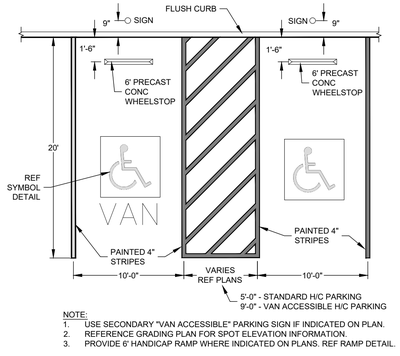
FLUSH CURB CONCRETE PAVEMENT
N.T.S



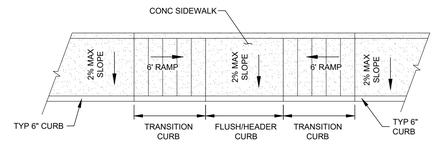
HANDICAP SYMBOL DETAIL
N.T.S



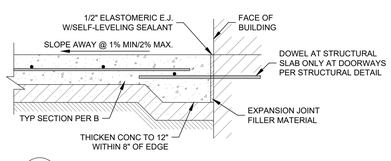
HANDICAP PARKING SIGN DETAIL
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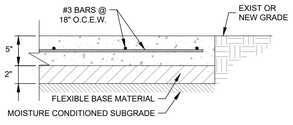
HANDICAP PARKING DETAIL
N.T.S



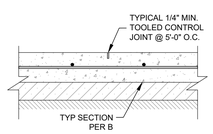
ADA RAMP
N.T.S



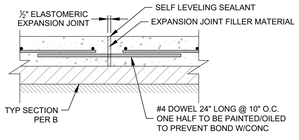
A **TYPICAL EXPANSION JOINT CONCRETE WALK/BLDG. INTERFACE**
N.T.S.



B **TYPICAL SECTION**
N.T.S.

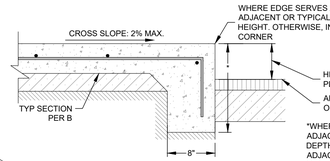


C **TYPICAL CONTRACTION JOINT**
N.T.S.

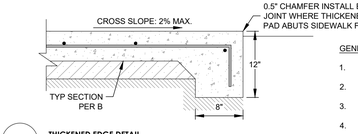


D **TYPICAL EXPANSION JOINT**
N.T.S.

TYPICAL SIDEWALK DETAILS
N.T.S



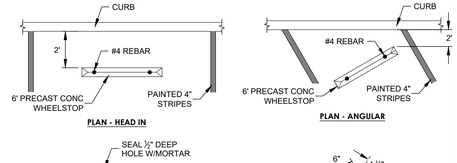
E **ELEVATED EDGE DETAIL**
N.T.S.

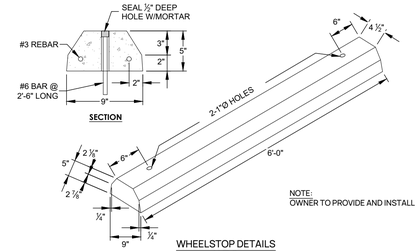


F **THICKENED EDGE DETAIL**
N.T.S.

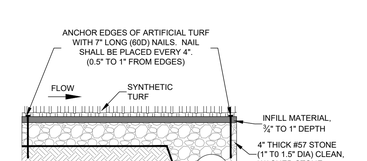
GENERAL NOTES FOR CONCRETE SIDEWALKS:

1. ALL SIDEWALKS SHALL BE A MINIMUM 4,500 PSI CONC WITH NO. 3 BARS AT 18" INCHES ON CENTER.
2. SLOPE SIDEWALKS AWAY FROM BLDG. AS INDICATED ON DRAWINGS OR AT 2% MAX.
3. PROVIDE SIDEWALK WITH A HORIZONTAL (CROSS) BRUSH FINISH ON ALL SURFACES.
4. GROOVE CONTRACTION JOINTS SHALL BE SPACED 5 FT. ON CENTERS, WITH 1/2" ELASTOMERIC EXPANSION JOINTS AT EVERY 30 FT.
5. PROVIDE A 1/2" ELASTOMERIC EXPANSION JOINT ALONG NEW BUILDING BETWEEN ALL NEW SIDEWALK.
6. ALL BASE MATERIAL UNDER SIDEWALKS TO BE MOISTURE CONDITIONED AND COMPACTED TO 95% MAX. DRY DENSITY 0% TO +2% OF OPTIMUM.





WHEELSTOP DETAILS
N.T.S



ARTIFICIAL TURF (PROVIDED BY OWNER)
NOT TO SCALE

CROSS SLOPE - SEE CIVIL GRADING PLAN

NOTE:

THE MANUFACTURE OF THE ARTIFICIAL TURF IS NOT KNOWN, AS MATERIAL IS BEING RECYCLED FROM PREVIOUS PROJECT. CONTRACTOR/OWNER SHALL CONFIRM MANUFACTURE AND ADJUST SECTION AND SPECIFICATIONS OUTLINED IN THIS DETAIL TO MATCH SUPPLIED ARTIFICIAL MANUFACTURE SPECIFICATION.

UNDERDRAIN NOT REQUIRED IF TURF IS NOT PROPOSED

2

TURF DRAIN DETAILS
N.T.S

Hill Country Civil
Engineers ◆ Consultants
TBPE Firm # 21081
301 Landa Street, Ste. 100, New Braunfels, TX 78130
Phone 817-659-9378 or 210-378-4563
www.hillcountrycivil.com

ROSS T. CORDER
135421
LICENSED
PROFESSIONAL ENGINEER
20 OCTOBER 2026

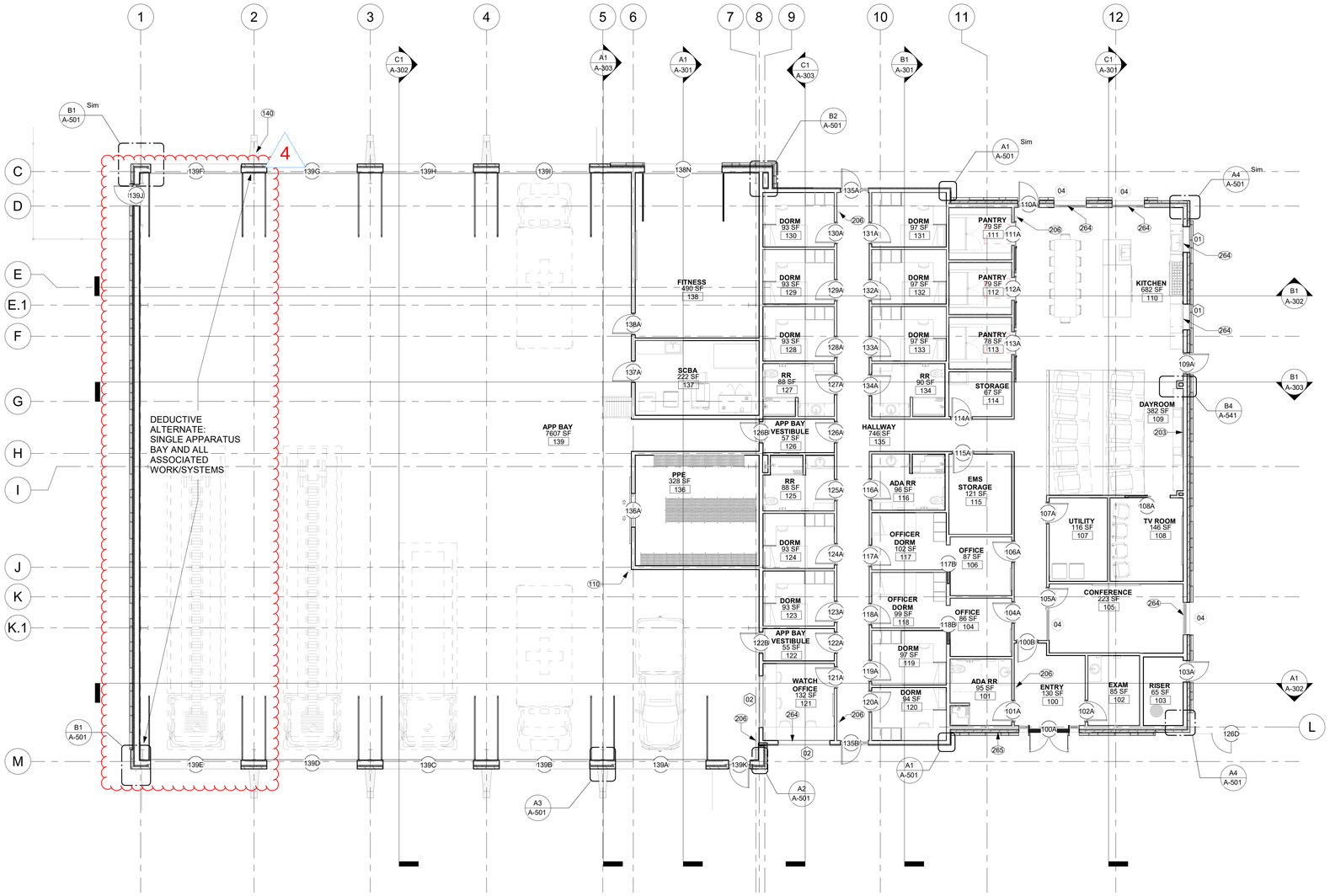
No.	Date	Revisions
1.	10/20/26	IFB SET
2.	11/04/26	ADDENDUM No. 4

HAYS COUNTY ESD NO. 4
FIRE STATION NO. 42
HCC JOB No.: 013-14 DRAWN BY: TN

SITE DETAILS

SHEET No.
22
OF 25

C:\HCC\Hill Country Civil\Projects - Documents\013 Martinez Architects\14 Wimberley Fire Station\1 - CAD's\2 - Sheets\013-14 DTL-001.dwg
Copyright Hill Country Civil, LLC October 20, 2026



GENERAL NOTES

A. **SEE SHEET A-141 FOR PARTITION TYPES.**
B. BRACE ALL STUD WALLS BACK TO STRUCTURE AS REQ'D. STUD MANUFACTURER SHALL GAUGE ALL STUDS PER APPLICATION. SUBMIT ENGINEERED SHOP DRAWINGS FOR APPROVAL.
C. EXTEND & SEAL ALL FIRE RATED WALLS TO DECK. ENSURE AIR-TIGHT SEAL @ ALL EXTERIOR WALLS.
D. COMPLETELY FILL ALL EXTERIOR WALLS WITH INSULATION.
E. CONTRACTOR TO PROVIDE & INSTALL FIRE DEPARTMENT ACCESS BOX. COORDINATE BOX REQUIREMENTS AND MOUNTING LOCATION WITH FIRE MARSHAL PRIOR TO INSTALLATION. APPLICATION & APPROVAL REQ'D.
F. PROVIDE GROMMETS AT ALL CASEWORK KNEE SPACES.
G. ALL BASE CABINET FILE DRAWERS TO BE CONSTRUCTED WITH PROPER WIDTH/DEPTH SO AS TO HOUSE FILING SYSTEM WITH SIDE RAILS TO ACCEPT HANGING FILE SYSTEM. SUBMIT DRAWER MOCKUP FOR ARCHITECT'S REVIEW AND APPROVAL PRIOR TO CONSTRUCTION/ INSTALLATION.
H. SUBSTITUTE DUROCK CEMENT BOARD FOR GYPSUM BOARD @ ALL CERAMIC WALL TILE LOCATIONS.
I. FULL HT. PLASTIC CORNER GUARDS TO BE PROVIDED AT ALL GYP. BD. CORNERS EXCEPT THOSE AT COLUMN FURROUTS.
J. CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL ELECTRICAL DEVICES & PLUMBING WITH MILLWORK, LOCKERS, ETC. ALL ELECTRICAL DEVICES & PLUMBING NOT COORDINATED WITH MILLWORK, LOCKERS, ETC. SHALL BE RELOCATED BY THE CONTRACTOR.
K. REFER TO SHEET G-201 FOR TYPICAL DOOR CLEARANCES. ALL DOORS SHALL MEET THE REQUIREMENTS OF THIS DRAWING. IF A DOOR IS FOUND THAT DOES NOT MEET THESE REQUIREMENTS, CONTACT THE ARCHITECT PRIOR TO CONSTRUCTION.
L. PROVIDE WOOD BLOCKING IN WALLS AS REQUIRED AT ALL HANDRAILS, MILLWORK, WALL-MOUNTED EQUIPMENT, ETC. - VERIFY LOCATION OF ALL OWNER PROVIDED EQUIPMENT THAT WILL REQUIRE BLOCKING.
M. G.C. TO COORDINATE ALL OWNER FURNISHED EQUIPMENT MODELS w/ MEP INFRASTRUCTURE.
N. SLOPE AT FLOOR DRAINS SHALL NOT EXCEED 1:48 SLOPE IN AREAS OF ACCESSIBLE PATH OF TRAVEL.

KEYNOTES

#	
110	CONCRETE-FILLED STEEL PIPE BOLLARDS (D.O.T. YELLOW PAINTED BOLLARDS & PROPANE TANK; GC TO PROVIDE SAMPLES)
140	CONCRETE APP BAY FOOTING
203	WALL MOUNTED FLAT SCREEN TV
206	FIRE EXTINGUISHER
264	ROLLER SHADES
265	DEDICATION PLAQUE

LEGEND

WALL LEGEND

MTL. STUD WALL

A1 OVERALL FLOOR PLAN - LEVEL 1
SCALE: 1/8" = 1'-0"

TRUE NORTH PROJECT NORTH

PROFESSIONAL SEAL

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Martinez Architects

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Hill Country Civil

Landscape
Evergreen Landscape Group

Structural
Matrix Structural

MEP
Emerald MEP

Technology
Imagine IT

Alerting
WestNET

STATION #42

Hays County ESD #4
xxxxx
Wimberley, TX 78676

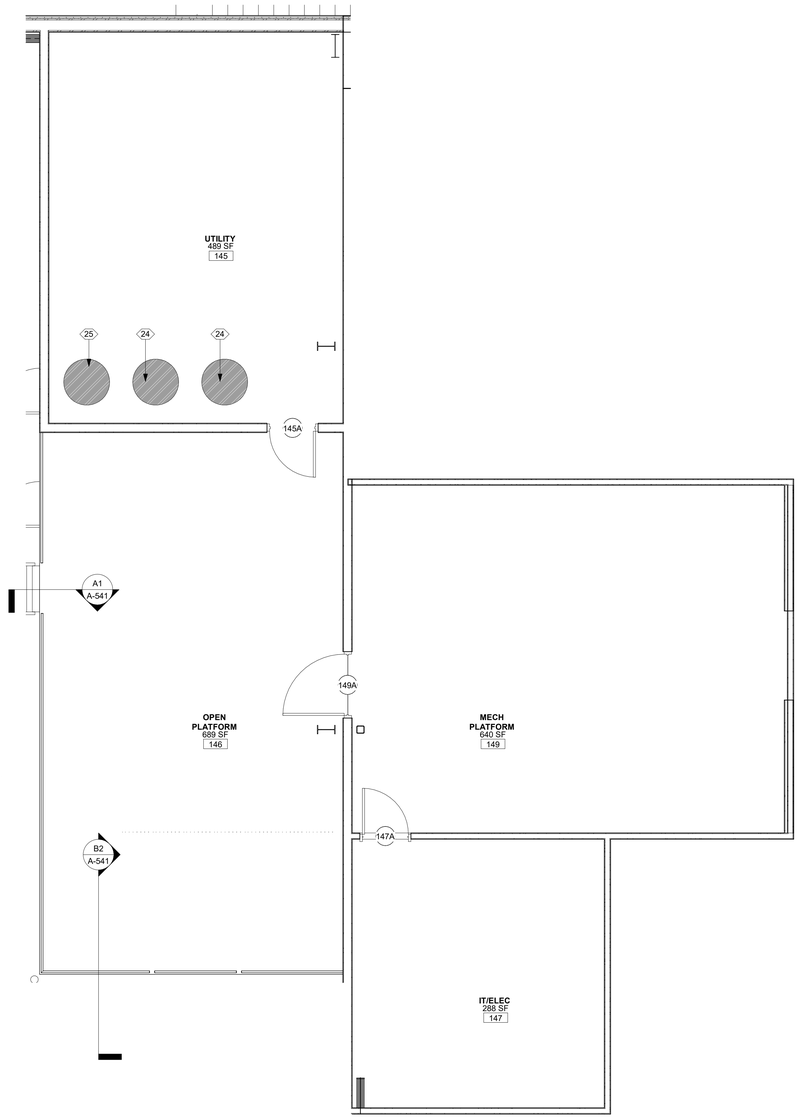
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DATE: 20-OCT-2026

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3	75% CD	06-APR-2026
4	98% CD	04-MAY-2026
5	IFP	01-JUN-2026
6	IFB	20-OCT-2026
7	ADDENDUM 3	28-OCT-2026
8	ADDENDUM 4	4-NOV-2026

OVERALL FLOOR PLAN

A-101



A1 MECH MEZZANINE EQUIPMENT PLAN
SCALE: 1/4" = 1'-0"



A2 OVERALL EQUIPMENT FLOOR PLAN - LEVEL 1
SCALE: 1/8" = 1'-0"

PROJECT NORTH

GENERAL NOTES

A. OWNER TO PROVIDE ALL FURNITURE & EQUIPMENT U.N.O. (RE: FF&E SCHEDULE)
B. G.C. TO COORDINATE ALL M/E/P CONNECTIONS, OUTLETS, DRAINS, AND INFRASTRUCTURE w/ SCHEDULE EQUIPMENT PRIOR TO CONSTRUCTION.
C. MODELS IDENTIFIED ARE OFFERED AS THE BASIS OF DESIGN AND SHOULD NOT BE TAKEN AS THE CLIENT'S FINAL SELECTION (U.N.O.)
D. FLAT SCREEN TELEVISION MOUNTED BETWEEN 27" - 84" MUST NOT PROJECT MORE THAN 4" FROM WALL SURFACE. (2012 TAS 307.2)

FF&E SCHEDULE

#	ITEM	Count	FURNISHED BY	INSTALLED BY	NOTES
01	STACKED WASHER/DRYER	4	OWNER	OWNER	
03	REVOLT CHAIR	12	OWNER	OWNER	
04	DAYROOM CHAIR	4	OWNER	OWNER	
05	84" TV	4	OWNER	OWNER	GC TO PROVIDE BLOCKING
06	TWIN FRAME & MATTRESS	12	OWNER	OWNER	
07	GEAR STORAGE LOCKER	30	OWNER	OWNER	GC TO PROVIDE BLOCKING
08	ICE MACHINE	1	OWNER	OWNER	
09	OFFICE CHAIR	30	OWNER	OWNER	
11	EXTRACTOR WASHER	1	OWNER	OWNER	
12	CASCADE	1	OWNER	OWNER	
14	REFRIGERATOR	3	OWNER	OWNER	
16	OUTDOOR DINING CHAIR	12	OWNER	OWNER	
17	DINING TABLE	1	OWNER	OWNER	
18	OUTDOOR TABLE	3	OWNER	OWNER	
19	DISHWASHER	2	CONTRACTOR	CONTRACTOR	RE: SPEC
20	UNDERCOUNTER ICE MACHINE	1	CONTRACTOR	CONTRACTOR	RE: SPEC
21	COMMERCIAL KTICHEN HOOD	1	CONTRACTOR	CONTRACTOR	RE: SPEC & MEP
22	60" RANGE	1	CONTRACTOR	CONTRACTOR	RE: SPEC
23	FOLDING SHIPS LADDER	1	CONTRACTOR	CONTRACTOR	
24	WATER HEATER	2	CONTRACTOR	CONTRACTOR	RE: MEP
25	AIR COMPRESSOR	1	OWNER	OWNER	
26	50" TV	3	OWNER	OWNER	GC TO PROVIDE BLOCKING
27	GEAR DRYER	1	OWNER	OWNER	
28	STAINLESS STEEL COUNTERTOP	1	OWNER	OWNER	
29	CONFERENCE TABLE	1	OWNER	OWNER	
30	WATER SOFTNER	1	CONTRACTOR	CONTRACTOR	RE: MEP
31	FIRE EXTINGUISHER	6	OWNER	OWNER	CABINET/BRACKET BY CONTRACTOR

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Hays County ESD #4
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Wimberley, TX 78676

PROJECT No: MA 25016
DATE: 20-OCT-2026

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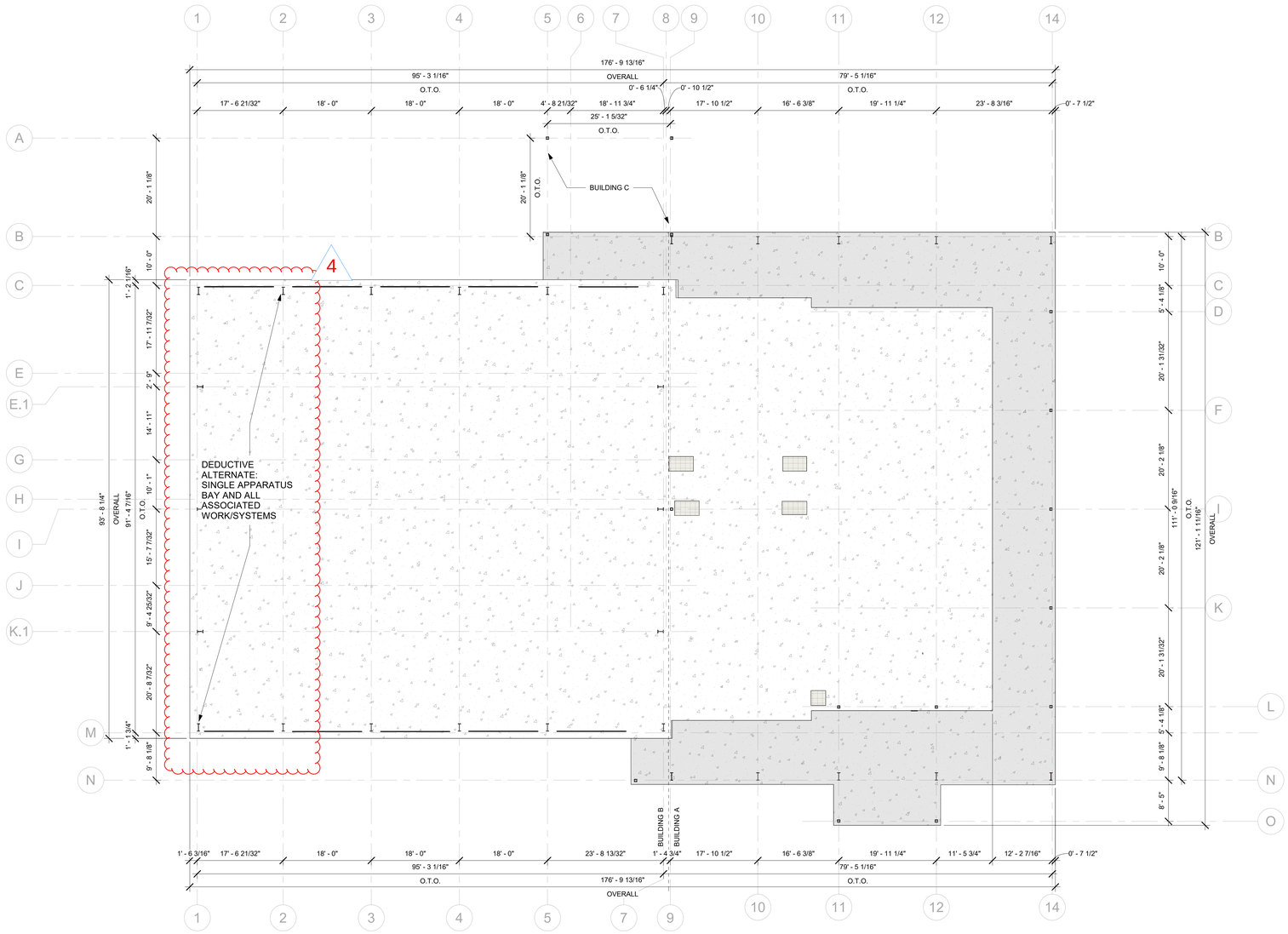
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5	IFP	01-JUN-2026
6	IFB	20-OCT-2026
8	ADDENDUM 4	4-NOV-2026

OVERALL EQUIPMENT FLOOR PLAN

A-111

PEMB PLAN NOTES

A. PEMB COLUMNS SHALL NOT INTERFERE WITH WINDOW AND/OR DOOR SWINGS, FF&E (AS SHOWN), OR ADA CLEARANCES.
B. TO REDUCE THE SIZE OF COLUMN FOOTPRINTS, ALL COLUMNS SHALL BE "SLIM PROFILE" WHENEVER POSSIBLE.
C. ALL EXPOSED STRUCTURAL MEMBERS SHALL BE PAINTED (PT-4 U.N.O.).
D. WRAP ALL COLUMNS WITH METAL FRAMING AND GYPSUM WALL BOARD AS DEPICTED IN THE PLANS.
   a. APPARATUS BAY COLUMNS DO NOT REQUIRE COLUMN WRAPS.
   b. PROVIDE MOISTURE-RESISTANT GYPSUM, AS NEEDED.



A1 OVERALL PEMB FLOOR PLAN
SCALE: 3/32" = 1'-0"

PROJECT NORTH

PROFESSIONAL SEAL

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Wimberley, TX 78676

PROJECT No: **MA 25016**
DATE: **20-OCT-2026**

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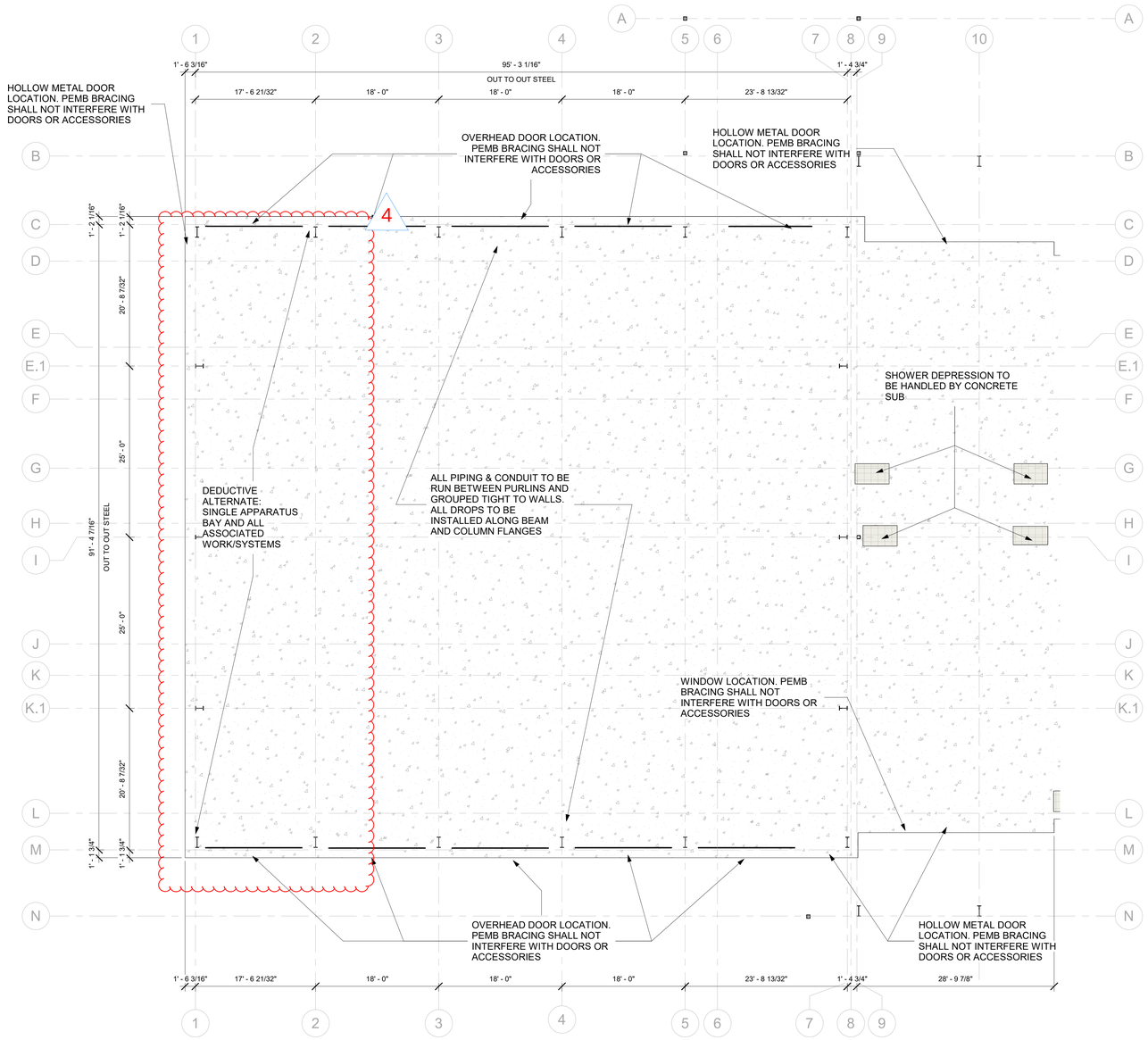
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8	ADDENDUM 4	4-NOV-2026

OVERALL PEMB PLAN

A-121

PEMB PLAN NOTES

A. PEMB COLUMNS SHALL NOT INTERFERE WITH WINDOW AND/OR DOOR SWINGS, FF&E (AS SHOWN), OR ADA CLEARANCES.
B. TO REDUCE THE SIZE OF COLUMN FOOTPRINTS, ALL COLUMNS SHALL BE "SLIM PROFILE" WHENEVER POSSIBLE.
C. ALL EXPOSED STRUCTURAL MEMBERS SHALL BE PAINTED (PT-4 U.N.O.).
D. WRAP ALL COLUMNS WITH METAL FRAMING AND GYPSUM WALL BOARD AS DEPICTED IN THE PLANS.
   a. APPARATUS BAY COLUMNS DO NOT REQUIRE COLUMN WRAPS.
   b. PROVIDE MOISTURE-RESISTANT GYPSUM, AS NEEDED.



A1 OVERALL PEMB FLOOR PLAN
SCALE: 1/8" = 1'-0"

PROJECT NORTH

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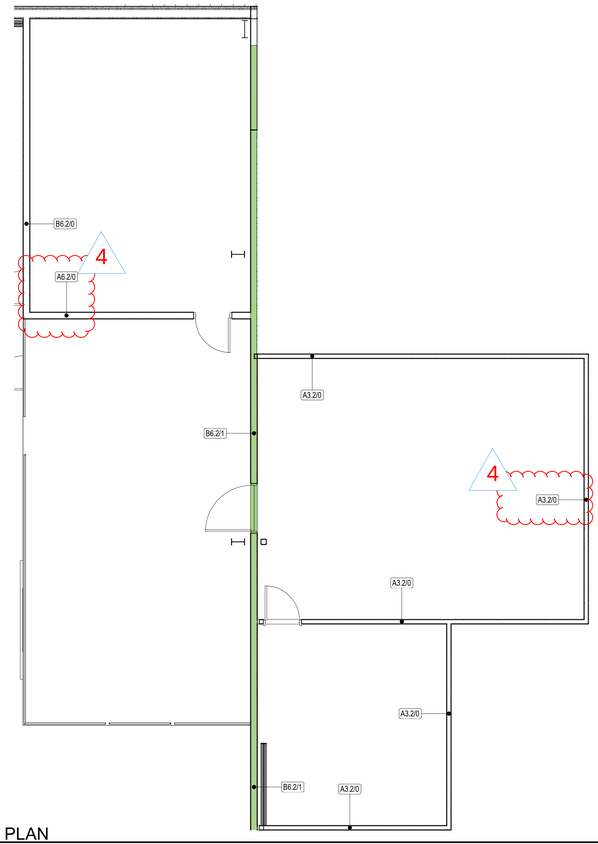
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8	ADDENDUM 4	4-NOV-2026

PEMB PLAN B

A-123



C1 MECH MEZANNINE ENLARGED PARTITION TYPE PLAN
SCALE: 3/16" = 1'-0"



A1 OVERALL PARTITION TYPE FLOOR PLAN - LEVEL 1
SCALE: 1/8" = 1'-0"

PROJECT NORTH

GENERAL NOTES

A. **ALL INTERIOR WALLS SHALL BE "A" UNLESS NOTED OTHERWISE.**
B. **PROVIDE BLOCKING AT ALL WALL MOUNTED AND RECESSED CONDITIONS.**
C. **PROVIDE SOUNDPROOFING INSULATION FOR ALL INTERIOR WALLS, U.N.O.**
D. **PROVIDE FULL HEIGHT CORNER GUARDS AT ALL CORNER CONDITIONS**
a. **EXCLUDES COLUMN WRAPS.**
E. **ALL WALLS SHALL BE PAINTED PT-1, U.N.O.**

LEGEND

PARTITION LEGEND

1-HOUR FIRE RATED PARTITION
(RE: G-501 FOR UL ASSEMBLIES)

2-HOUR FIRE RATED PARTITION
(RE: G-501 FOR UL ASSEMBLIES)

WALL TAG LEGEND (REFER TO A-141)

A 3 . 1 / 1
- FIRE RATING IN HOURS
- # OF PARTITION SIDES WITH GYP. BD.
- SIZE OF STUD/ CMU
- PARTITION TYPE

GENERAL NOTES

A. ALL INTERIOR WALLS SHALL BE TYPE "A" UNLESS NOTED OTHERWISE.

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Wimberley, TX 78676

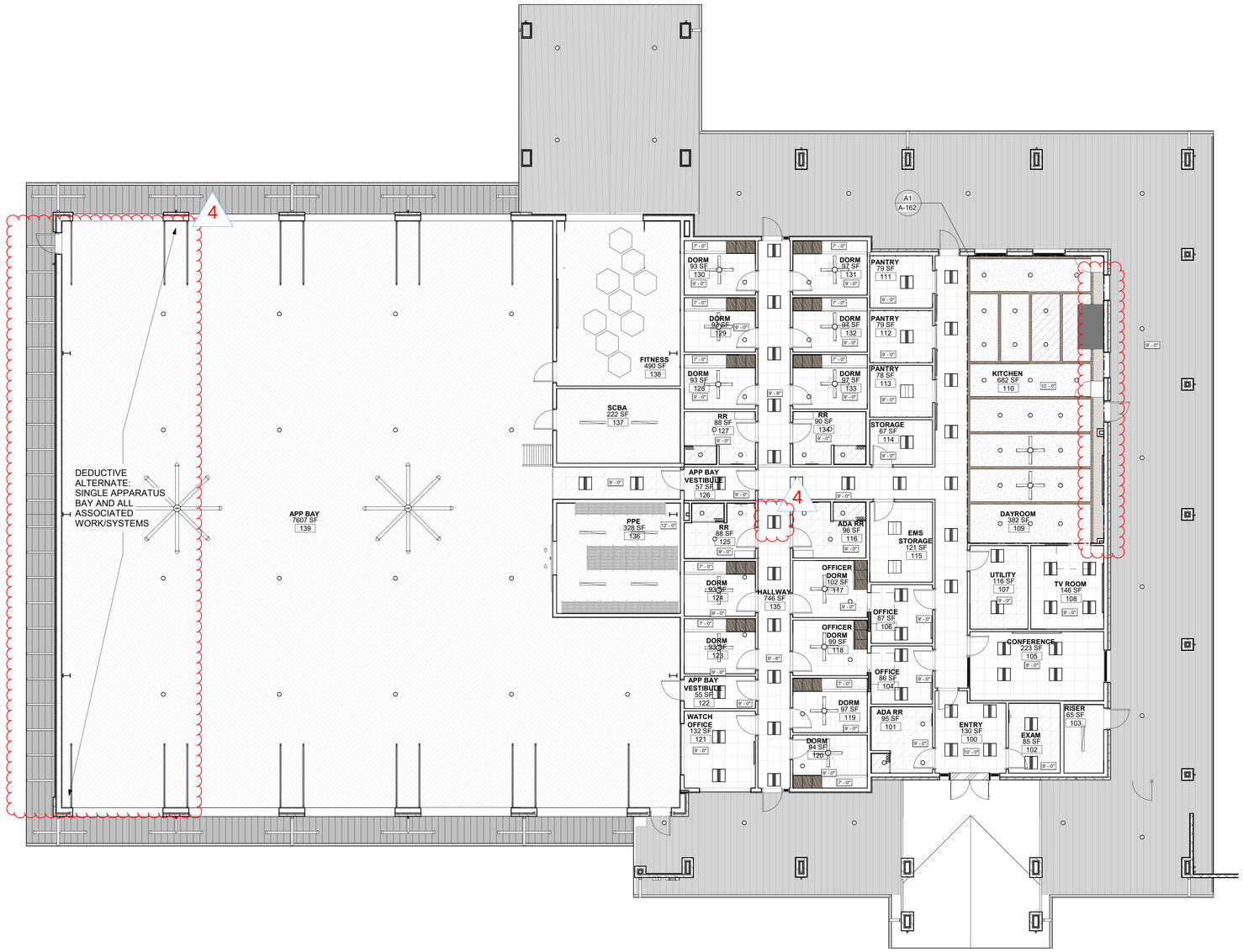
PROJECT No: **MA 25016**
DATE: **20-OCT-2026**

ISSUE

1	100% DD	06-JAN-2026
2	25% CD	25-FEB-2026
3	75% CD	06-APR-2026
4	98% CD	04-MAY-2026
5	IFP	01-JUN-2026
6	IFB	20-OCT-2026
8	ADDENDUM 4	4-NOV-2026

OVERALL PARTITION TYPE FLOOR PLAN

A-141



A1 OVERALL REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

PROJECT NORTH

GENERAL NOTES

A. SEE SHEET A-141 FOR PARTITION TYPES.
B. ALL CEILING SHALL BE 9'-0" A.F.F. UNLESS NOTED OTHERWISE.
C. REFERENCE TECHNOLOGY & MEP PLANS & SPECS FOR ELEC. FIXTURES & MECH. EQUIPMENT.
D. G.C. SHALL COORDINATE FIXTURE LOCATIONS & ALL DISCREPANCIES WITH ARCHITECT PRIOR TO INSTALLATION.
E. FRAME GYP. BD. FURRDOWNS w/ 3-5/8" MTL. STUDS @ 16" O.C., BRACED TO WALL AND ROOF STRUCTURE.
F. MILDEW RESISTANT CEILINGS IN ALL RESTROOMS, UTILITY, & OPERATIONS SPACES.
G. PAINT ALL EXPOSED STRUCTURE (PT-4) U.N.O.

LEGEND

- 10'-6" — CEILING HEIGHT A.F.F.
- LIGHT FIXTURES (RE: ELECTRICAL)
- 2'X2' LAY-IN ACOUSTICAL PANELS
- 2'X2' LAY-IN MILDEW-RESISTANT ACOUSTICAL PANELS
- 5/8" TYPE X GYPSUM BOARD OR 1/2" HIGH STRENGTH CEILING BOARD
- 5/8" MILDEW-RESISTANT GYPSUM BOARD
- PRE-FINISHED MTL. SOFFIT PANELS
- EXPOSED CEILING
- FAUX WOOD BEAMS (4)
- INSULATED METAL PANEL
- FAUX WOOD CEILING (4)

KEYNOTES (#)

PROFESSIONAL SEAL

REGISTERED ARCHITECT — RICHARD J. MARTINEZ — 23149 — STATE OF TEXAS

LOGO/CONTACT

martinez ARCHITECTS

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8911 N Capital of Texas Hwy
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DESIGN TEAM

Architectural
Martinez Architects

Civil
Hill Country Civil

Landscape
Evergreen Landscape Group

Structural
Matrix Structural

MEP
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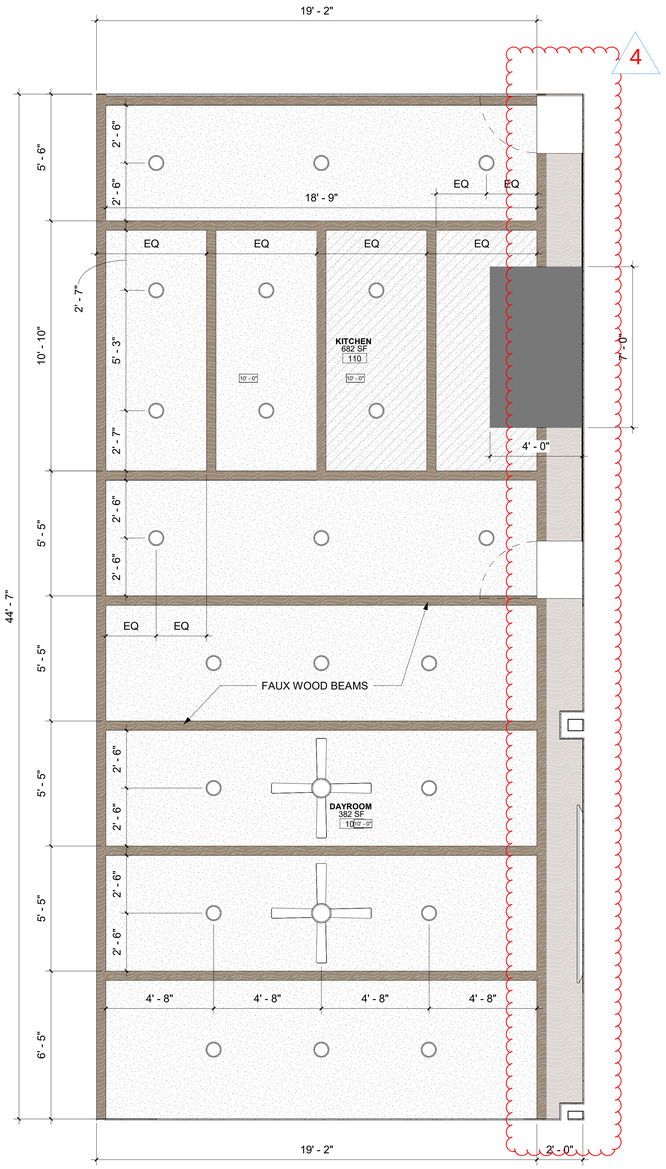
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OVERALL REFLECTED CEILING PLAN

A-161



A1 KITCHEN - ENLARGED RCP
SCALE: 3/8" = 1'-0"



A3 MECH MEZZANINE REFLECTED CEILING PLAN
SCALE: 3/16" = 1'-0"

GENERAL NOTES

A. SEE SHEET A-141 FOR PARTITION TYPES.
B. ALL CEILING SHALL BE 9'-0" A.F.F. UNLESS NOTED OTHERWISE.
C. REFERENCE TECHNOLOGY & MEP PLANS & SPECS FOR ELEC. FIXTURES & MECH. EQUIPMENT.
D. G.C. SHALL COORDINATE FIXTURE LOCATIONS & ALL DISCREPANCIES WITH ARCHITECT PRIOR TO INSTALLATION.
E. FRAME GYP. BD. FURRDOWNS w/ 3-5/8" MTL. STUDS @ 16" O.C., BRACED TO WALL AND ROOF STRUCTURE.
F. MILDEW RESISTANT CEILINGS IN ALL RESTROOMS, UTILITY, & OPERATIONS SPACES.
G. PAINT ALL EXPOSED STRUCTURE (PT-4) U.N.O.

LEGEND

- 10'-6" — CEILING HEIGHT A.F.F.
- LIGHT FIXTURES (RE: ELECTRICAL)
- 2'X2' LAY-IN ACOUSTICAL PANELS
- 2'X2' LAY-IN MILDEW-RESISTANT ACOUSTICAL PANELS
- 5/8" TYPE X GYPSUM BOARD OR 1/2" HIGH STRENGTH CEILING BOARD
- 5/8" MILDEW-RESISTANT GYPSUM BOARD
- PRE-FINISHED MTL. SOFFIT PANELS
- EXPOSED CEILING
- FAUX WOOD BEAMS (4)
- INSULATED METAL PANEL
- FAUX WOOD CEILING (4)

KEYNOTES (#)

PROFESSIONAL SEAL

REGISTERED ARCHITECT — RUSSELL J. MARTINEZ — 23149 — STATE OF TEXAS

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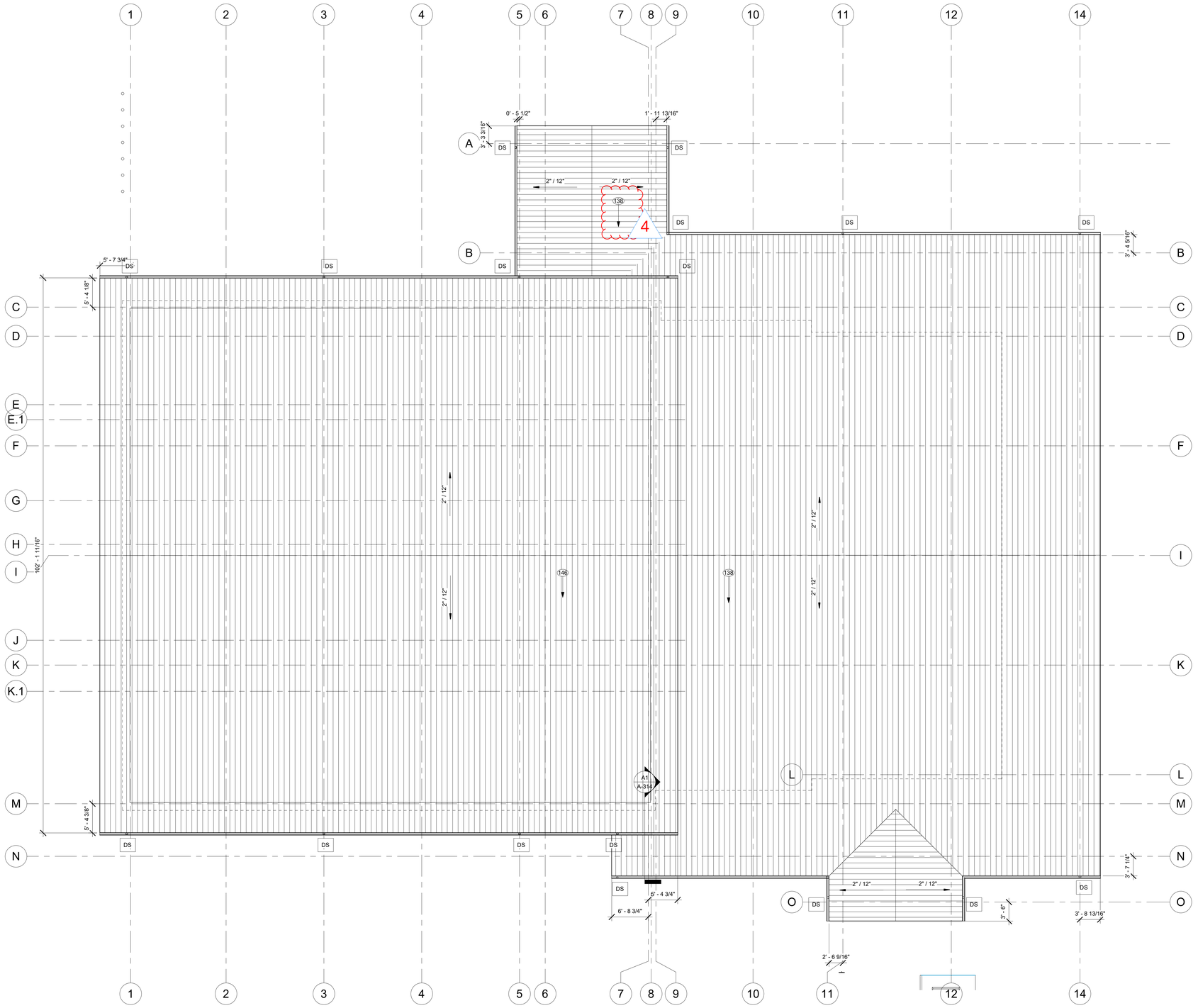
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ENLARGED REFLECTED CEILING PLANS

A-162



A1 ROOF PLAN
SCALE: 1/8" = 1'-0"

PROJECT NORTH

GENERAL NOTES

A. ROOFING MANUFACTURER TO SUBMIT DETAILED SHOP DRAWINGS SHOWING ALL ROOF EDGE AND CONNECTION DETAILS FOR ARCHITECT'S APPROVAL.
B. COLORS OF ALL EXTERIOR METAL TO BE SELECTED BY ARCHITECT FROM MANUFACTURER'S FULL RANGE.
C. RE: MEP DWGS. FOR ALL ROOF PENETRATIONS.
D. ROOFING MANUFACTURER / INSTALLER SHALL SUBMIT WEATHER-TIGHTNESS WARRANTY TO ARCHITECT FOR APPROVAL AS SPECIFIED.
E. APPROVED MANUFACTURER TO PROVIDE PRE-FINISHED METAL CANOPIES, COLUMN COVER SLEEVES, PERFORATED ALUMINUM SCREENS, AND SUNSHADE DEVICES.
F. CANOPY/COLUMN COVERS/SCREEN DRAWINGS ARE FOR REFERENCE ONLY. REF. TO CANOPY SHOP DRAWINGS AND COORDINATE NEEDS PRIOR TO CONSTRUCTION.
G. CANOPY FOOTINGS WILL BE DESIGNED BY STRUCTURAL.
H. CONTRACTOR SHALL VERIFY AND COORDINATE ALL REQUIRED ROOF PENETRATIONS FOR ITEMS INDICATED ON M/E/P DRAWINGS THAT WILL PENETRATE ROOF.
I. REFER TO AND COMPLY WITH ARCHITECTURAL SHEET METAL MANUAL, LATEST EDITION, SMACNA.
J. GUTTERS SHALL BE PAINTED, PRE-FINISHED METAL. SUBMIT PHYSICAL SAMPLES TO ARCHITECT FOR FINAL APPROVAL.
K. REFER TO WALL SECTIONS FOR ROOF REFERENCE DETAILS.
L. DOWNSPOUTS TO BE FIELD PAINTED PVC

DS DOWNSPOUT LOCATION

ROOF CRICKET

KEYNOTES

138 PRE-FIN STANDING METAL ROOFING SYST (TYP.)
146 PRE-FIN STANDING METAL INSULATED ROOFING SYST

PROFESSIONAL SEAL

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ROOF PLAN

A-181

GENERAL NOTES

A. G.C. SHALL PROVIDE WIND LOAD CERTIFICATION FROM REGISTERED ENGINEER UPON COMPLETION OF PROJECT. ENGINEER TO CERTIFY WIND SPEED REQUIRED ON STRUCTURAL DRAWINGS. FOR ALL COMPONENTS OF BUILDING INCLUDING BUT NOT LIMITED TO THE FOUNDATION, WALLS, DOORS, FRAMES, WINDOWS, AND ROOF.

B. G.C. TO COORDINATE ALL LOUVERS, VENTS AND OTHER PENETRATIONS WITH ARCHITECT PRIOR TO INSTALLATION.

C. G.C. TO PERFORM SMOKE TEST, SEAL ALL PENETRATION INDICATED BY RESULTS - COORDINATE WITH ARCHITECT/OWNER.

D. FINISH MATERIALS ARE BASIS OF DESIGN. SUBMIT EQUAL MATERIALS AS NECESSARY AS SUBSTITUTION DURING BIDDING.

E. EXPANSION JOINTS ARE SHOWN GRAPHICALLY. SUBMIT EXPANSION JOINT LAYOUT PLAN TO ARCHITECT FOR REVIEW, PRIOR TO CONSTRUCTION.

KEYNOTES (#)

138 PRE-FIN STANDING METAL ROOFING SYST (TYP.)
146 PRE-FIN STANDING METAL INSULATED ROOFING SYST
257 GEAR DRYER
401 STONE VENEER
402 CAST STONE WALL CAP
406 PRE-FIN. MTL GUTTER W/ GUTTER GUARD
422 DECORATIVE WALL SCONCE - RE: ELEC. SCHEDULE
426 DEDICATION PLAQUE - RE: A-811 SIGNAGE DETAILS
435 NICHIHA SIDING
437 BRICK SIDING
441 METAL PANEL
442 FIELD PAINTED PVC DOWNSPOUT
446 SPLIT-FACE CMU BLOCK

LEGEND

BRICK VENEER
- MANUFACTURER: ACME
- COLOR: "COPPER SUNSET"
- SIZE: MODULAR
- PATTERN: RUNNING BOND

STONE VENEER
- MANUFACTURER: TEXAS LIMESTONE
- COLOR: "NICOTINE"
- TYPE: ASHLAR STONE
- PATTERN: RANDOM PATTERN

COMPOSITE SIDING PANEL
- MANUFACTURER: NICHIHA
- TYPE: VINTAGEWOOD
- COLOR: CEDAR

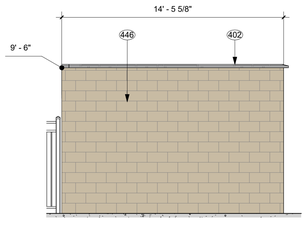
STANDING SEAM METAL ROOF
- MANUFACTURER: MBCI
- TYPE: SUPERLOK PANEL

PRE-FIN STANDING METAL INSULATED ROOF
- MANUFACTURER: ALL WEATHER INSULATED PANELS
- TYPE: SR2 W/ INNOVACELL TECHNOLOGY

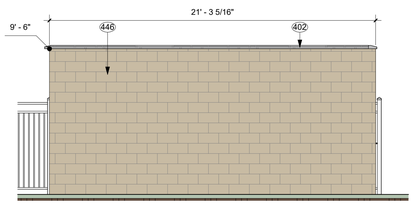
PRE-FIN METAL WALL PANEL
- MANUFACTURER: PAC CLAD
- COLOR: SLATE BLUE

SPLIT FACE CMU
- COLOR: FROM COMPLETE LIST OF MANUFACTURER'S OPTIONS
- PATTERN: RUNNING BOND

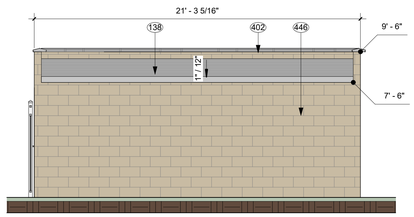
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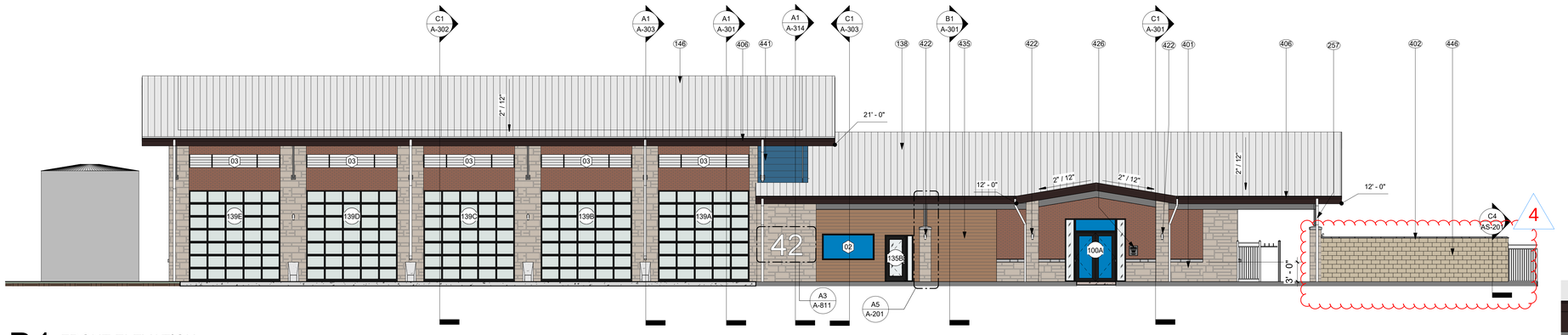
C1 PUMP HOUSE ELEVATION - 1
SCALE: 1/4" = 1'-0"



C2 PUMP HOUSE ELEVATION - 2
SCALE: 1/4" = 1'-0"



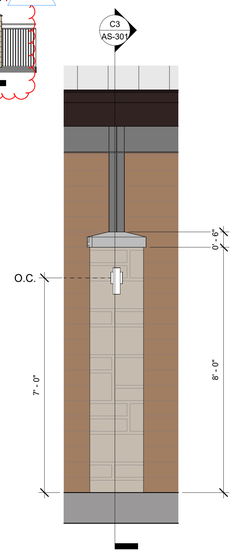
C3 PUMP HOUSE ELEVATION - 3
SCALE: 1/4" = 1'-0"



B1 FRONT ELEVATION
SCALE: 1/8" = 1'-0"



A1 BACK PATIO ELEVATION
SCALE: 1/8" = 1'-0"



A5 ENTRY PATIO COLUMN
SCALE: 1/2" = 1'-0"

PROFESSIONAL SEAL

REGISTERED ARCHITECT
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EXTERIOR ELEVATIONS

A-201

GENERAL NOTES

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E. EXPANSION JOINTS ARE SHOWN GRAPHICALLY. SUBMIT EXPANSION JOINT LAYOUT PLAN TO ARCHITECT FOR REVIEW, PRIOR TO CONSTRUCTION.

KEYNOTES

138	PRE-FIN STANDING METAL ROOFING SYST (TYP.)
257	GEAR DRYER
401	STONE VENEER
406	PRE-FIN. MTL GUTTER W/ GUTTER GUARD
408	PRE-FIN. MTL TRIM AND FASCIA
422	DECORATIVE WALL SCONCE - RE: ELEC. SCHEDULE
435	NICHIHA SIDING
437	BRICK SIDING
441	METAL PANEL

LEGEND

BRICK VENEER
- MANUFACTURER: ACME
- COLOR: "COPPER SUNSET"
- SIZE: MODULAR
- PATTERN: RUNNING BOND

STONE VENEER
- MANUFACTURER: TEXAS LIMESTONE
- COLOR: "NICOTINE"
- TYPE: ASHLAR STONE
- PATTERN: RANDOM PATTERN

COMPOSITE SIDING PANEL
- MANUFACTURER: NICHIHA
- TYPE: VINTAGEWOOD
- COLOR: CEDAR

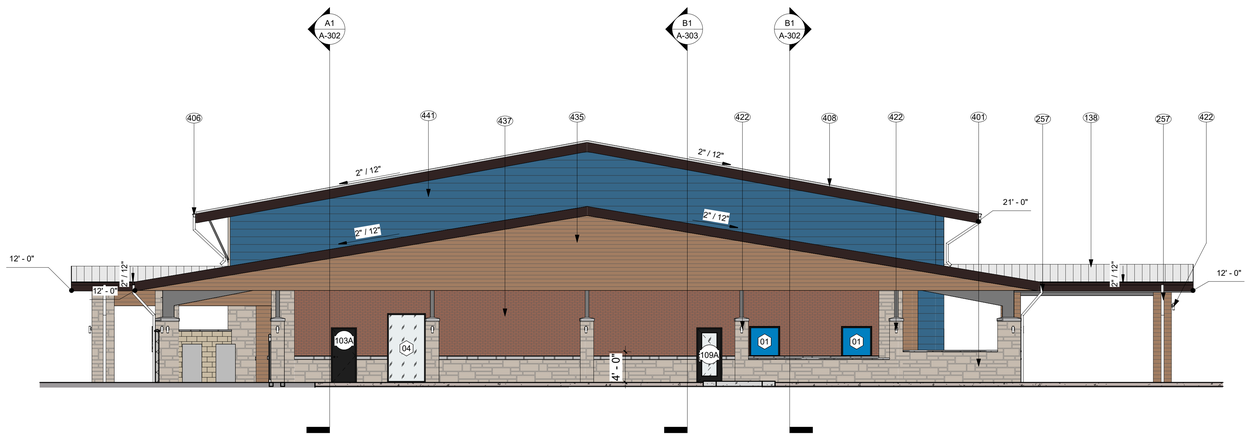
STANDING SEAM METAL ROOF
- MANUFACTURER: MBCI
- TYPE: SUPERLOK PANEL

PRE-FIN STANDING METAL INSULATED ROOF
- MANUFACTURER: ALL WEATHER INSULATED PANELS
- TYPE: SR2 W/ INNOVACELL TECHNOLOGY

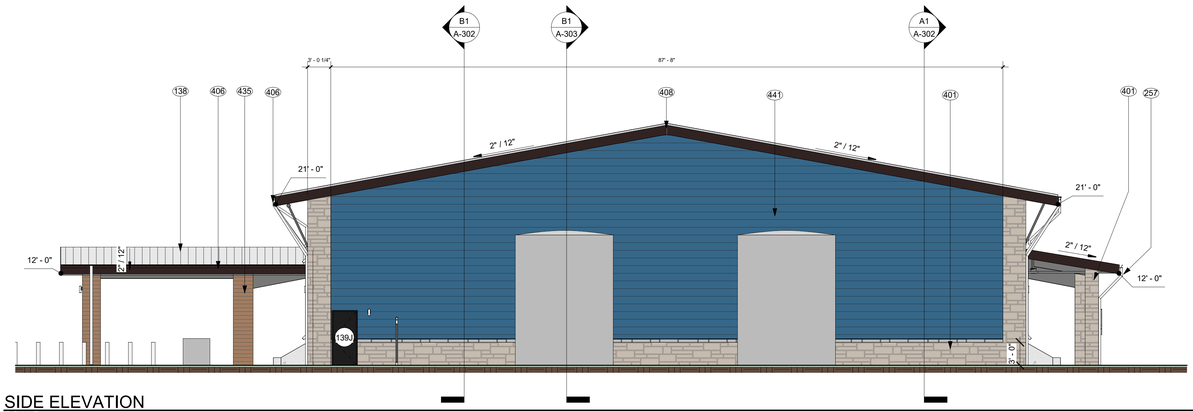
PRE-FIN METAL WALL PANEL
- MANUFACTURER: PAC CLAD
- COLOR: SLATE BLUE

4

SPLIT FACE CMU
- COLOR: FROM COMPLETE LIST OF MANUFACTURER'S OPTIONS
- PATTERN: RUNNING BOND



B1 SIDE PATIO ELEVATION
SCALE: 1/8" = 1'-0"



A1 SIDE ELEVATION
SCALE: 1/8" = 1'-0"

PROFESSIONAL SEAL

REGISTERED ARCHITECT
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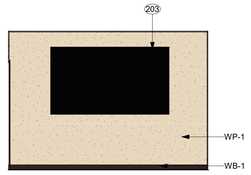
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ISSUE 8

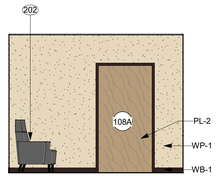
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EXTERIOR ELEVATIONS

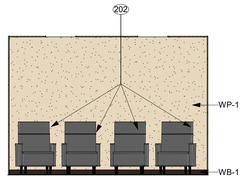
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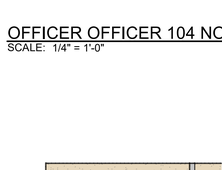
E1 TV ROOM 108 EAST
SCALE: 1/4" = 1'-0"



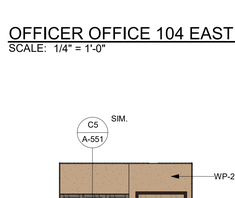
E2 TV ROOM 108 NORTH
SCALE: 1/4" = 1'-0"



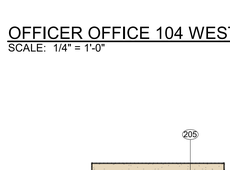
E3 TV ROOM 108 WEST
SCALE: 1/4" = 1'-0"



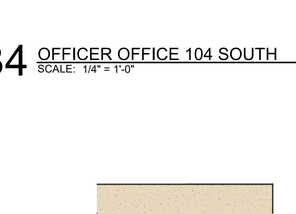
D1 ENTRY 100 EAST
SCALE: 1/4" = 1'-0"



D2 ENTRY 100 NORTH
SCALE: 1/4" = 1'-0"



D3 ENTRY 100 SOUTH
SCALE: 1/4" = 1'-0"



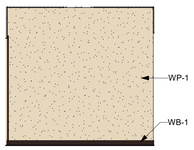
D4 ENTRY 100 WEST
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C1 DORM 119 NORTH
SCALE: 1/4" = 1'-0"

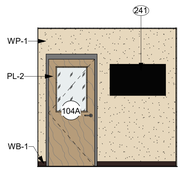
C2 DORM 119 EAST
SCALE: 1/4" = 1'-0"

C3 DORM 119 WEST
SCALE: 1/4" = 1'-0"

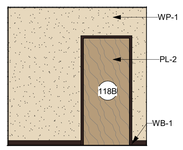
C4 DORM 119 SOUTH
SCALE: 1/4" = 1'-0"



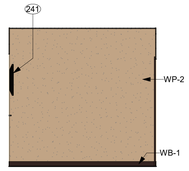
B1 OFFICER OFFICER 104 NORTH
SCALE: 1/4" = 1'-0"



B2 OFFICER OFFICE 104 EAST
SCALE: 1/4" = 1'-0"



B3 OFFICER OFFICE 104 WEST
SCALE: 1/4" = 1'-0"



B4 OFFICER OFFICE 104 SOUTH
SCALE: 1/4" = 1'-0"

A1 OFFICER DORM 118 NORTH
SCALE: 1/4" = 1'-0"

A2 OFFICER DORM 118 EAST
SCALE: 1/4" = 1'-0"

A3 OFFICER DORM 118 WEST
SCALE: 1/4" = 1'-0"

A4 OFFICER DORM 118 SOUTH
SCALE: 1/4" = 1'-0"

GENERAL NOTES

1. ALL FINISH MATERIAL COLORS/PATTERNS/STYLES TO BE DETERMINED BY ARCHITECT FROM MANUFACTURER'S FULL RANGE OF COLORS.
2. ALL HOLLOW METAL DOOR FRAMES & DOORS SHALL BE PAINTED (PT-2).
3. RE: SPECIFICATIONS FOR ADDITIONAL FINISH INFORMATION & REQUIREMENTS.
4. ALL EXPOSED STEEL FRAMING (INTERIOR & EXTERIOR) SHALL BE PAINTED (PT-4).
5. PROVIDE FULL HEIGHT CORNER GUARDS AT ALL OUTSIDE GYPSUMCORNERS.
6. ALL CABINETS SHALL BE WOOD LAMINATED (U.N.O.)
7. ALL COUNTERTOPS SHALL BE SOLID SURFACE (U.N.O.)
8. RE: A-161 FOR EXTENT AND HEIGHT OF CEILING FURRDOWNS / TRANSITIONS.
9. COLORS IN DRAWINGS AND LEGENDS ARE FOR REPRESENTATION PURPOSES ONLY AND DO NOT DEPICT ACTUAL FINISHES.
10. ALL WALLS SHALL RECEIVE FIELD PAINT COLOR, "PT-1" (U.N.O., RE: FINISH PLAN)
11. ALL GYP. WALLS SHALL RECEIVE "WB-1".
12. INTERIOR CMU WALLS SHALL BE PAINTED (PT-1) AND SHALL NOT RECEIVE WALL BASE.
13. F.F.& E. SHOWN AS BASIS OF DESIGN. (BY OWNER, U.N.O.)
14. ALL DORM LOCKER STORAGE FURRING SHALL BE PAINTED (PT-2, U.N.O.)
15. ALL FLOOR & WALL MATERIAL TRANSITIONS SHALL RECEIVE METAL SCHLUTER TRIM.
16. ALL RESTROOM AND SHOWER ROOMS WALLS SHALL RECEIVE WALL TILE (WT-1) TO 6' 0" A.F.F.
17. PROVIDE SCHLUTER TRIM FOR RESTROOM & SHOWER CORNER CONDITIONS AND A TOP CAP FOR TRANSITIONS TO GYP BD.
18. 2X6 IN-WALL BLOCKING FOR GEAR LOCKERS BY CONTRACTOR. GC TO COORDINATE MOUNTING HEIGHT WITH OWNER.

FINISH SCHEDULE

INTERIOR FINISHES

FLOOR

LUXURY VINYL TILE 1 (LVT-1)
- MANUFACTURER: TARKETT
- COLLECTION: EVENT + WOOD
- MODEL: CRAFTED PLANK
- SIZE: 6" X 48"
- COLOR: PACIFIC WALNUT

LUXURY VINYL TILE 2 (LVT-2)
- MANUFACTURER: TARKETT
- COLLECTION: EVENT + WOOD
- MODEL: CRAFTED PLANK
- SIZE: 6" X 48"
- COLOR: ANTIQUE WALNUT

FLOOR TILE 1 (FT-1)
- MANUFACTURER: DALTILE
- COLLECTION: NATURAL STONE MARBLE
- MODEL: FIRST SNOW ELEGANCE SQUARE
- SIZE: 12" X 12"
- COLOR: M190

RUBBER FLOORING (RF-1)
- MANUFACTURER: FLEXCO
- COLLECTION: PRIME SPORTS
- MODEL: STARLIGHT PSF-204 RUBBER TILE
- SIZE: 3/8" GAUGE
- COLOR: BLACK W/ RED

SEALED CONCRETE (SC-1)
(RE: SPECS)

MILLWORK

PLASTIC LAMINATE 1 (PL-1)
- MANUFACTURER: WILSONART
- COLOR: 72, 60, 48
- NAME: FREMONT OAK

PLASTIC LAMINATE 2 (PL-2)
- MANUFACTURER: WILSONART
- COLOR: 169, 158, 139
- NAME: HARBOR HICKORY

STAINED PLYWOOD (SP-1)
- (RE: CONTRACTOR)
- CONTRACTOR FURNISHED, CONTRACTOR INSTALLED

COUNTER TOP 1 (CTOP-1)
- MANUFACTURER: WILSONART
- COLOR: 243, 246, 243
- NAME: DESIGNER WHITE D354SL

GRANITE COUNTER TOP (CTOP-2)
- (RE: CONTRACTOR)
- CONTRACTOR FURNISHED, CONTRACTOR INSTALLED

4

WALL

WALL PAINT 1 (WP-1) | FIELD PAINT
- MANUFACTURER: SHERWIN WILLIAMS
- COLOR: 231 / 216 / 189
- NAME: ROYCROFT VELLUM - SW 2833

WALL PAINT 2 (WP-2)
- MANUFACTURER: SHERWIN WILLIAMS
- COLOR: 193 / 164 / 133
- NAME: FARRO - SW 9103

WALL TILE 1 (WT-1)
- MANUFACTURER: DALTILE
- COLLECTION: FONTE
- MODEL: PIER WHITE
- SIZE: 12" X 24"
- COLOR: M012
- PATTERN: RECTANGLE

WALL TILE 2 (WT-2)
- MANUFACTURER: DALTILE
- TYPE: REMEDY
- MODEL: TONIC
- COLOR: RD26
- SIZE: 1" X 10"
- PATTERN: RECTANGLE

WALL BASE 1 (WB-1)
- MANUFACTURER: ROPPE / 700 SERIES
- COLOR: 52 / 35 / 32
- NAME: 110 BROWN

HM DOOR PAINT 1 (MTL-1)
- MANUFACTURER: SHERWIN WILLIAMS
- COLOR: 79 / 52 / 38
- NAME: FRENCH ROAST - SW 6069

FIBER REINFORCED PLASTIC (FRP-1)
- MANUFACTURER: USFRP
- COLOR: BRIGHT WHITE
- TYPE: CLASS-A (PEBBLED)

STAINLESS STEEL 1 (S STL-1)
REFER TO SPECS

CEILING

2 X 2 DROP CEILING MILDEW RESISTANT (DC-1)
- MANUFACTURER:
- COLLECTION:
- COLOR:

GYPSUM CEILING (GC-1)
- MANUFACTURER:
- COLLECTION:
- COLOR: PT-1

2 X 2 DROP CEILING (DC-2)
- MANUFACTURER:
- COLLECTION:
- COLOR:

MILDEW RESISTANT GYPSUM CEILING (GC-2)
- MANUFACTURER:
- COLLECTION:
- COLOR: PT-1

KEYNOTES

202	DAYROOM LOUNGE CHAIR
203	WALL MOUNTED FLAT SCREEN TV
205	TWIN MATTRESS W/ BED FRAME (BY OWNER)
206	FIRE EXTINGUISHER
241	50" OFFICE T.V. INSTALL POWER & ETHERNET (SAMSUNG)
261	WARDROBE LOCKERS (BY CONTRACTOR)
706	42" DORM CEILING FAN w/ LED KIT - RE: ELEC. SCHEDULE & PLANS

PROFESSIONAL SEAL

REGISTERED ARCHITECT RICHARD J. MARTINEZ 23149 STATE OF TEXAS

LOGO/CONTACT

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8911 N Capital of Texas Hwy
Suite 4200
Austin, TX 78759
737.900.5166

DESIGN TEAM

Architectural
Martinez Architects

Civil
Hill Country Civil

Landscape
Evergreen Landscape Group

Structural
Matrix Structural

MEP
Emerald MEP

Technology
Imagine IT

Alerting
WestNET

STATION #4

Hays County ESD #4

xxxxx
Wimberley, TX 78676

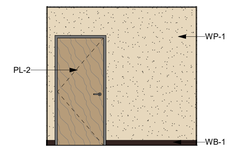
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DATE: 20-OCT-2026

ISSUE #

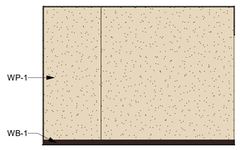
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5	IFP	01-JUN-2026
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7	ADDENDUM 3	28-OCT-2026
8	ADDENDUM 4	4-NOV-2026

INTERIOR ELEVATIONS

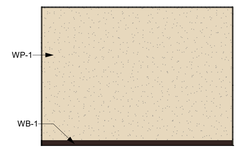
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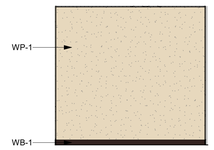
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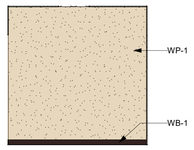
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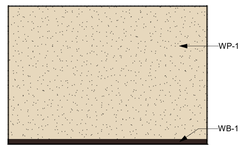
D3 EMS STORAGE 115 WEST
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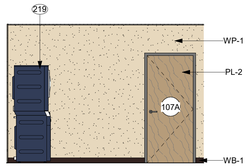
D4 EMS STORAGE 115 SOUTH
SCALE: 1/4" = 1'-0"



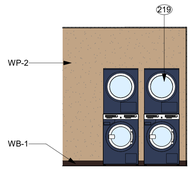
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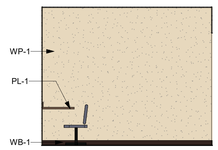
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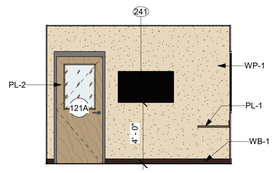
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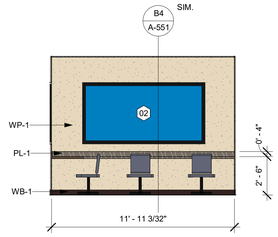
C4 UTILITY 107 SOUTH
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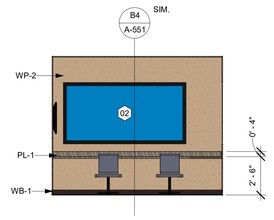
B1 WATCH OFFICE 121 NORTH
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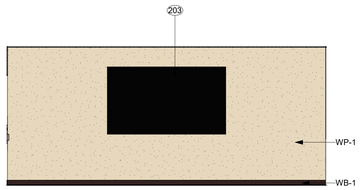
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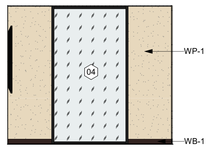
B3 WATCH OFFICE 121 WEST
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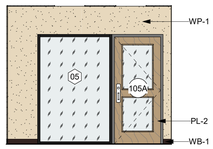
B4 WATCH OFFICE 121 SOUTH
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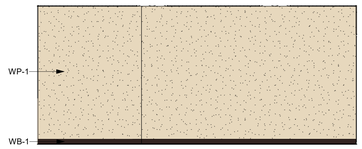
A1 CONFERENCE 105 NORTH
SCALE: 1/4" = 1'-0"



A2 CONFERENCE 105 EAST
SCALE: 1/4" = 1'-0"



A3 CONFERENCE 105 WEST
SCALE: 1/4" = 1'-0"



A4 CONFERENCE 105 SOUTH
SCALE: 1/4" = 1'-0"

GENERAL NOTES

1. ALL FINISH MATERIAL COLORS/PATTERNS/STYLES TO BE DETERMINED BY ARCHITECT FROM MANUFACTURER'S FULL RANGE OF COLORS.
2. ALL HOLLOW METAL DOOR FRAMES & DOORS SHALL BE PAINTED (PT-2).
3. RE: SPECIFICATIONS FOR ADDITIONAL FINISH INFORMATION & REQUIREMENTS.
4. ALL EXPOSED STEEL FRAMING (INTERIOR & EXTERIOR) SHALL BE PAINTED (PT-4).
5. PROVIDE FULL HEIGHT CORNER GUARDS AT ALL OUTSIDE GYPSUMCORNERS.
6. ALL CABINETS SHALL BE WOOD LAMINATED (U.N.O.)
7. ALL COUNTERTOPS SHALL BE SOLID SURFACE (U.N.O.)
8. RE: A-161 FOR EXTENT AND HEIGHT OF CEILING FURRDOWNS / TRANSITIONS.
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10. ALL WALLS SHALL RECEIVE FIELD PAINT COLOR, "PT-1" (U.N.O., RE: FINISH PLAN)
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16. ALL RESTROOM AND SHOWER ROOMS WALLS SHALL RECEIVE WALL TILE (WT-1) TO 6' 0" A.F.F.
17. PROVIDE SCHLUTER TRIM FOR RESTROOM & SHOWER CORNER CONDITIONS AND A TOP CAP FOR TRANSITIONS TO GYP BD.
18. 2X6 IN-WALL BLOCKING FOR GEAR LOCKERS BY CONTRACTOR. GC TO COORDINATE MOUNTING HEIGHT WITH OWNER.

FINISH SCHEDULE

INTERIOR FINISHES

FLOOR

LUXURY VINYL TILE 1 (LVT-1)
- MANUFACTURER: TARKETT
- COLLECTION: EVENT + WOOD
- MODEL: CRAFTED PLANK
- SIZE: 6" X 48"
- COLOR: PACIFIC WALNUT

LUXURY VINYL TILE 2 (LVT-2)
- MANUFACTURER: TARKETT
- COLLECTION: EVENT + WOOD
- MODEL: CRAFTED PLANK
- SIZE: 6" X 48"
- COLOR: ANTIQUE WALNUT

FLOOR TILE 1 (FT-1)
- MANUFACTURER: DALTILE
- COLLECTION: NATURAL STONE MARBLE
- MODEL: FIRST SNOW ELEGANCE SQUARE
- SIZE: 12" X 12"
- COLOR: M190

RUBBER FLOORING (RF-1)
- MANUFACTURER: FLEXCO
- COLLECTION: PRIME SPORTS
- MODEL: STARLIGHT PSF-204
- RUBBER TILE
- SIZE: 3/8" GAUGE
- COLOR: BLACK W/ RED

SEALED CONCRETE (SC-1)
(RE: SPECS)

MILLWORK

PLASTIC LAMINATE 1 (PL-1)
- MANUFACTURER: WILSONART
- COLOR: 72, 60, 48
- NAME: FREMONT OAK

PLASTIC LAMINATE 2 (PL-2)
- MANUFACTURER: WILSONART
- COLOR: 169, 158, 139
- NAME: HARBOR HICKORY

STAINED PLYWOOD (SP-1)
- (RE: CONTRACTOR)
- CONTRACTOR FURNISHED, CONTRACTOR INSTALLED

COUNTER TOP 1 (CTOP-1)
- MANUFACTURER: WILSONART
- COLOR: 243, 248, 243
- NAME: DESIGNER WHITE D354SL

GRANITE COUNTER TOP (CTOP-2)
- (RE: CONTRACTOR)
- CONTRACTOR FURNISHED, CONTRACTOR INSTALLED

WALL

WALL PAINT 1 (WP-1) / FIELD PAINT
- MANUFACTURER: SHERWIN WILLIAMS
- COLOR: 231 / 216 / 189
- NAME: ROYCROFT VELLUM - SW 2833

WALL PAINT 2 (WP-2)
- MANUFACTURER: SHERWIN WILLIAMS
- COLOR: 193 / 164 / 133
- NAME: FARRO - SW 9103

WALL TILE 1 (WT-1)
- MANUFACTURER: DALTILE
- COLLECTION: FONTE
- MODEL: PIER WHITE
- SIZE: 12" X 24"
- COLOR: M012
- PATTERN: RECTANGLE

WALL TILE 2 (WT-2)
- MANUFACTURER: DALTILE
- TYPE: REMEDY
- MODEL: TONIC
- COLOR: RD26
- SIZE: 1" X 10"
- PATTERN: RECTANGLE

WALL BASE 1 (WB-1)
- MANUFACTURER: ROPPE / 700 SERIES
- COLOR: 52 / 35 / 32
- NAME: 110 BROWN

HM DOOR PAINT 1 (MTL-1)
- MANUFACTURER: SHERWIN WILLIAMS
- COLOR: 79 / 52 / 38
- NAME: FRENCH ROAST - SW 6069

FIBER REINFORCED PLASTIC (FRP-1)
- MANUFACTURER: USFRP
- COLOR: BRIGHT WHITE
- TYPE: CLASS-A (PEBBLED)

STAINLESS STEEL 1 (S STL-1)
REFER TO SPECS

CEILING

2 X 2 DROP CEILING MILDEW RESISTANT (DC-1)
- MANUFACTURER:
- COLLECTION:
- COLOR:

2 X 2 DROP CEILING (DC-2)
- MANUFACTURER:
- COLLECTION:
- COLOR:

GYPSUM CEILING (GC-1)
- MANUFACTURER:
- COLLECTION:
- COLOR: PT-1

MILDEW RESISTANT GYPSUM CEILING (GC-2)
- MANUFACTURER:
- COLLECTION:
- COLOR: PT-1

KEYNOTES

203	WALL MOUNTED FLAT SCREEN TV
219	STACKED WASHER/DRYER UNIT (STAINLESS FINISH)
241	50" OFFICE T.V. INSTALL POWER & ETHERNET (SAMSUNG)

PROFESSIONAL SEAL

LOGO/CONTACT

martinez ARCHITECTS
Martinez Architect, LP
8911 N Capital of Texas Hwy
Suite 4200
Austin, TX 78759
737.900.5166

DESIGN TEAM

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Martinez Architects

Civil
Hill Country Civil

Landscape
Evergreen Landscape Group

Structural
Matrix Structural

MEP
Emerald MEP

Technology
Imagine IT

Alerting
WestNET

STATION #42
Hays County ESD #4
xxxxx
Wimberley, TX 78676

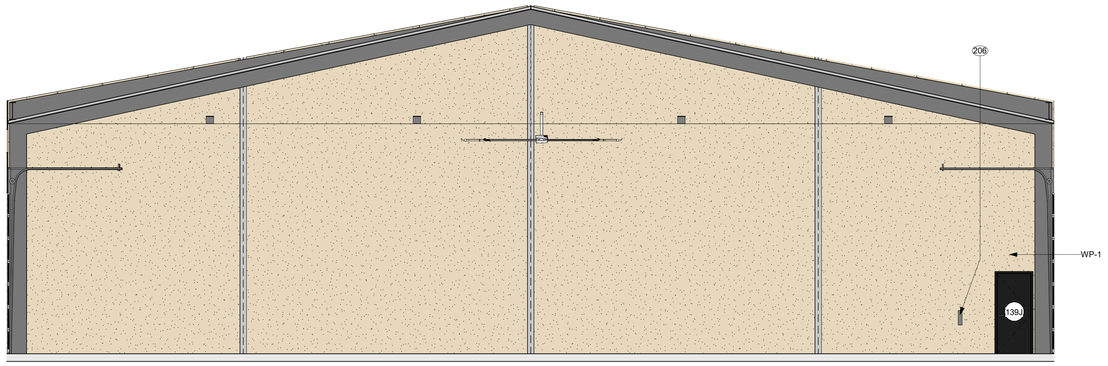
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DATE: **20-OCT-2026**

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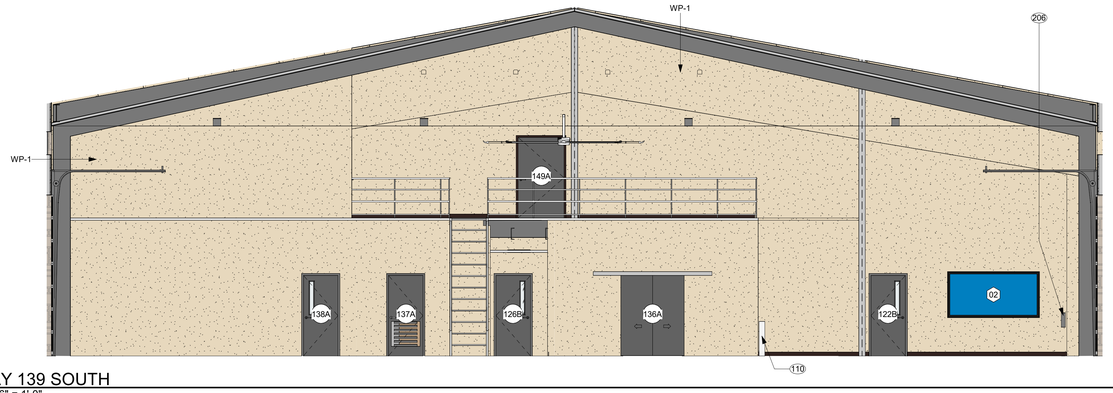
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7	ADDENDUM 3	28-OCT-2026
8	ADDENDUM 4	4-NOV-2026

INTERIOR ELEVATIONS

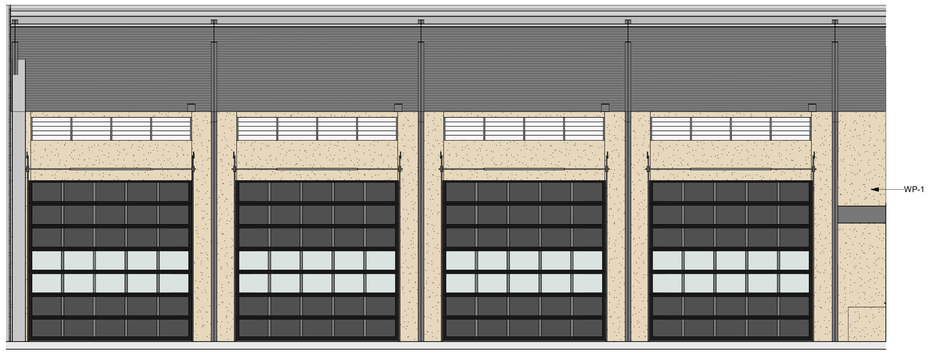
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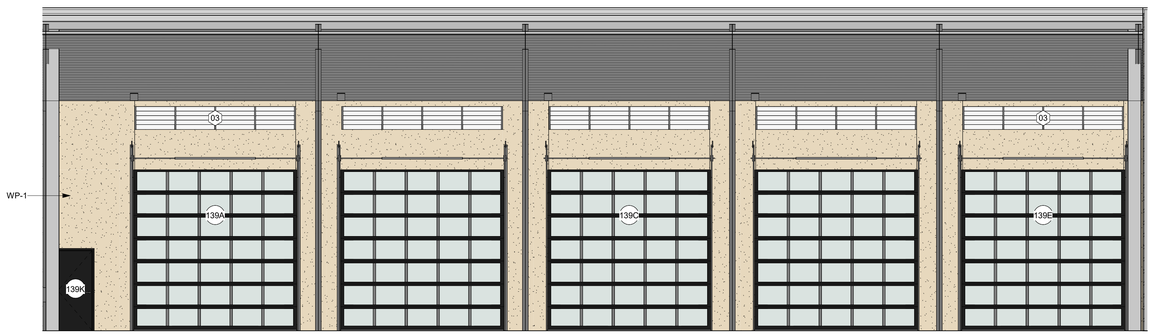
D1 APP BAY 139 NORTH
SCALE: 3/16" = 1'-0"



C1 APP BAY 139 SOUTH
SCALE: 3/16" = 1'-0"



B1 APP BAY 139 EAST
SCALE: 3/16" = 1'-0"



A1 APP BAY 139 WEST
SCALE: 3/16" = 1'-0"

GENERAL NOTES

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16. ALL RESTROOM AND SHOWER ROOMS WALLS SHALL RECEIVE WALL TILE (WT-1) TO 6' 0" A.F.F.
17. PROVIDE SCHLUTER TRIM FOR RESTROOM & SHOWER CORNER CONDITIONS AND A TOP CAP FOR TRANSITIONS TO GYP BD.
18. 2X6 IN-WALL BLOCKING FOR GEAR LOCKERS BY CONTRACTOR. GC TO COORDINATE MOUNTING HEIGHT WITH OWNER.

FINISH SCHEDULE

INTERIOR FINISHES

FLOOR

LUXURY VINYL TILE 1 (LVT-1)
- MANUFACTURER: TARKETT
- COLLECTION: EVENT + WOOD
- MODEL: CRAFTED PLANK
- SIZE: 6" X 48"
- COLOR: PACIFIC WALNUT

LUXURY VINYL TILE 2 (LVT-2)
- MANUFACTURER: TARKETT
- COLLECTION: EVENT + WOOD
- MODEL: CRAFTED PLANK
- SIZE: 6" X 48"
- COLOR: ANTIQUE WALNUT

FLOOR TILE 1 (FT-1)
- MANUFACTURER: DALTILE
- COLLECTION: NATURAL STONE MARBLE
- MODEL: FIRST SNOW ELEGANCE SQUARE
- SIZE: 12" X 12"
- COLOR: M190

RUBBER FLOORING (RF-1)
- MANUFACTURER: FLEXCO
- COLLECTION: PRIME SPORTS
- MODEL: STARLIGHT PSF-204 RUBBER TILE
- SIZE: 3/8" GAUGE
- COLOR: BLACK W/ RED

SEALED CONCRETE (SC-1)
(RE: SPECS)

MILLWORK

PLASTIC LAMINATE 1 (PL-1)
- MANUFACTURER: WILSONART
- COLOR: 72, 60, 48
- NAME: FREMONT OAK

PLASTIC LAMINATE 2 (PL-2)
- MANUFACTURER: WILSONART
- COLOR: 169, 158, 139
- NAME: HARBOR HICKORY

STAINED PLYWOOD (SP-1)
- (RE: CONTRACTOR)
- CONTRACTOR FURNISHED, CONTRACTOR INSTALLED

COUNTER TOP 1 (CTOP-1)
- MANUFACTURER: WILSONART
- COLOR: 243, 248, 243
- NAME: DESIGNER WHITE D354SL

GRANITE COUNTER TOP (CTOP-2)
- (RE: CONTRACTOR)
- CONTRACTOR FURNISHED, CONTRACTOR INSTALLED

WALL

WALL PAINT 1 (WP-1) | FIELD PAINT
- MANUFACTURER: SHERWIN WILLIAMS
- COLOR: 231 / 216 / 189
- NAME: ROYCROFT VELLUM - SW 2833

WALL PAINT 2 (WP-2)
- MANUFACTURER: SHERWIN WILLIAMS
- COLOR: 193 / 164 / 133
- NAME: FARRO - SW 9103

WALL TILE 1 (WT-1)
- MANUFACTURER: DALTILE
- COLLECTION: FONTE
- MODEL: PIER WHITE
- SIZE: 12" X 24"
- COLOR: M012
- PATTERN: RECTANGLE

WALL TILE 2 (WT-2)
- MANUFACTURER: DALTILE
- TYPE: REMEDY
- MODEL: TONIC
- COLOR: RD26
- SIZE: 1" X 10"
- PATTERN: RECTANGLE

WALL BASE 1 (WB-1)
- MANUFACTURER: ROPPE / 700 SERIES
- COLOR: 52 / 35 / 32
- NAME: 110 BROWN

HM DOOR PAINT 1 (MTL-1)
- MANUFACTURER: SHERWIN WILLIAMS
- COLOR: 79 / 52 / 38
- NAME: FRENCH ROAST - SW 6069

FIBER REINFORCED PLASTIC (FRP-1)
- MANUFACTURER: USFRP
- COLOR: BRIGHT WHITE
- TYPE: CLASS-A (PEBBLED)

STAINLESS STEEL 1 (S STL-1)
REFER TO SPECS

CEILING

2 X 2 DROP CEILING MILDEW RESISTANT (DC-1)
- MANUFACTURER:
- COLLECTION:
- COLOR:

2 X 2 DROP CEILING (DC-2)
- MANUFACTURER:
- COLLECTION:
- COLOR:

GYPSUM CEILING (GC-1)
- MANUFACTURER:
- COLLECTION:
- COLOR: PT-1

MILDEW RESISTANT GYPSUM CEILING (GC-2)
- MANUFACTURER:
- COLLECTION:
- COLOR: PT-1

KEYNOTES

110	CONCRETE-FILLED STEEL PIPE BOLLARDS (D.O.T. YELLOW PAINTED BOLLARDS & PROPANE TANK; GC TO PROVIDE SAMPLES)
206	FIRE EXTINGUISHER

PROFESSIONAL SEAL

REGISTERED ARCHITECT · RONALD J. MARTINEZ · 23149 · STATE OF TEXAS

LOGO/CONTACT

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Austin, TX 78759
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DESIGN TEAM

Architectural
Martinez Architects

Civil
Hill Country Civil

Landscape
Evergreen Landscape Group

Structural
Matrix Structural

MEP
Emerald MEP

Technology
Imagine IT

Alerting
WestNET

STATION #42
Hays County ESD #4
xxxxx
Wimberley, TX 78676

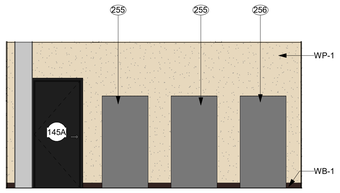
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DATE: **20-OCT-2026**

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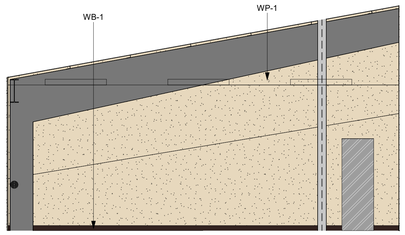
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5	IFP	01-JUN-2026
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7	ADDENDUM 3	28-OCT-2026
8	ADDENDUM 4	4-NOV-2026

INTERIOR ELEVATIONS

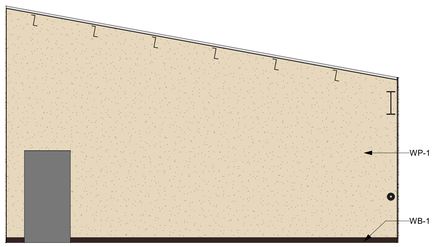
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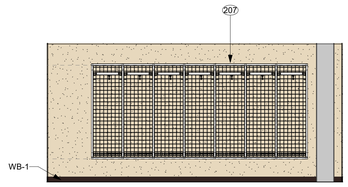
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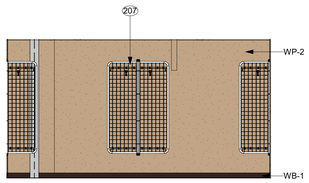
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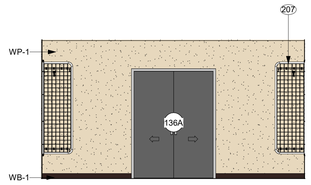
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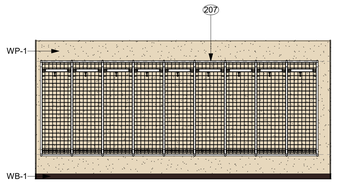
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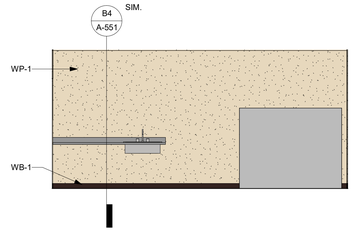
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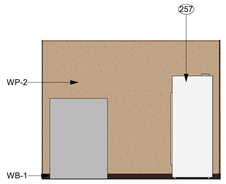
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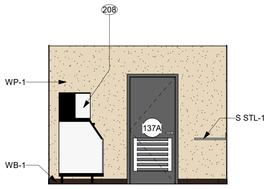
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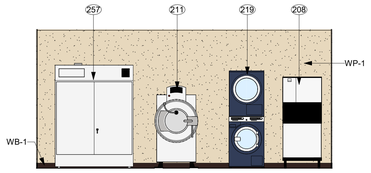
B1 SCBA 137 EAST
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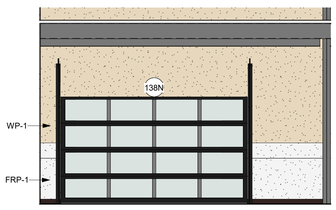
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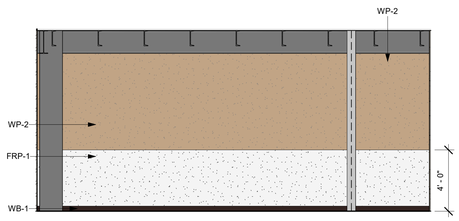
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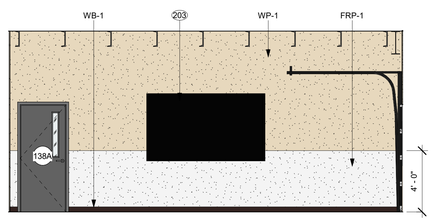
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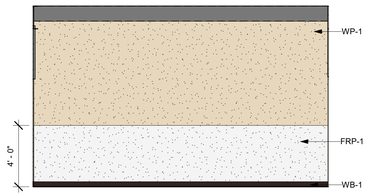
A1 FITNESS 138 EAST
SCALE: 1/4" = 1'-0"



A2 FITNESS 138 SOUTH
SCALE: 1/4" = 1'-0"



A3 FITNESS 138 NORTH
SCALE: 1/4" = 1'-0"



A4 FITNESS 138 WEST
SCALE: 1/4" = 1'-0"

GENERAL NOTES

1. ALL FINISH MATERIAL COLORS/PATTERNS/STYLES TO BE DETERMINED BY ARCHITECT FROM MANUFACTURER'S FULL RANGE OF COLORS.
2. ALL HOLLOW METAL DOOR FRAMES & DOORS SHALL BE PAINTED (PT-2).
3. RE: SPECIFICATIONS FOR ADDITIONAL FINISH INFORMATION & REQUIREMENTS.
4. ALL EXPOSED STEEL FRAMING (INTERIOR & EXTERIOR) SHALL BE PAINTED (PT-4).
5. PROVIDE FULL HEIGHT CORNER GUARDS AT ALL OUTSIDE GYPSUMCORNERS.
6. ALL CABINETS SHALL BE WOOD LAMINATED (U.N.O.)
7. ALL COUNTERTOPS SHALL BE SOLID SURFACE (U.N.O.)
8. RE: A-161 FOR EXTENT AND HEIGHT OF CEILING FURRDOWNS / TRANSITIONS.
9. COLORS IN DRAWINGS AND LEGENDS ARE FOR REPRESENTATION PURPOSES ONLY AND DO NOT DEPICT ACTUAL FINISHES.
10. ALL WALLS SHALL RECEIVE FIELD PAINT COLOR, "PT-1" (U.N.O., RE: FINISH PLAN)
11. ALL GYP. WALLS SHALL RECEIVE "WB-1".
12. INTERIOR CMU WALLS SHALL BE PAINTED (PT-1) AND SHALL NOT RECEIVE WALL BASE.
13. F.F.& E. SHOWN AS BASIS OF DESIGN. (BY OWNER, U.N.O.)
14. ALL DORM LOCKER STORAGE FURRING SHALL BE PAINTED (PT-2, U.N.O.)
15. ALL FLOOR & WALL MATERIAL TRANSITIONS SHALL RECEIVE METAL SCHLUTER TRIM.
16. ALL RESTROOM AND SHOWER ROOMS WALLS SHALL RECEIVE WALL TILE (WT-1) TO 6' 0" A.F.F.
17. PROVIDE SCHLUTER TRIM FOR RESTROOM & SHOWER CORNER CONDITIONS AND A TOP CAP FOR TRANSITIONS TO GYP BD.
18. 2X6 IN-WALL BLOCKING FOR GEAR LOCKERS BY CONTRACTOR. GC TO COORDINATE MOUNTING HEIGHT WITH OWNER.

FINISH SCHEDULE

INTERIOR FINISHES

FLOOR

LUXURY VINYL TILE 1 (LVT-1)
- MANUFACTURER: TARKETT
- COLLECTION: EVENT + WOOD
- MODEL: CRAFTED PLANK
- SIZE: 6" X 48"
- COLOR: PACIFIC WALNUT

LUXURY VINYL TILE 2 (LVT-2)
- MANUFACTURER: TARKETT
- COLLECTION: EVENT + WOOD
- MODEL: CRAFTED PLANK
- SIZE: 6" X 48"
- COLOR: ANTIQUE WALNUT

FLOOR TILE 1 (FT-1)
- MANUFACTURER: DALTILE
- COLLECTION: NATURAL STONE MARBLE
- MODEL: FIRST SNOW ELEGANCE SQUARE
- SIZE: 12" X 12"
- COLOR: M190

RUBBER FLOORING (RF-1)
- MANUFACTURER: FLEXCO
- COLLECTION: PRIME SPORTS
- MODEL: STARLIGHT PSF-204 RUBBER TILE
- SIZE: 3/8" GAUGE
- COLOR: BLACK W/ RED

SEALED CONCRETE (SC-1)
(RE: SPECS)

MILLWORK

PLASTIC LAMINATE 1 (PL-1)
- MANUFACTURER: WILSONART
- COLOR: 72, 60, 48
- NAME: FREMONT OAK

PLASTIC LAMINATE 2 (PL-2)
- MANUFACTURER: WILSONART
- COLOR: 169, 158, 139
- NAME: HARBOR HICKORY

STAINED PLYWOOD (SP-1)
- (RE: CONTRACTOR)
- CONTRACTOR FURNISHED, CONTRACTOR INSTALLED

COUNTERTOP 1 (CTOP-1)
- MANUFACTURER: WILSONART
- COLOR: 243, 248, 243
- NAME: DESIGNER WHITE D354SL

GRANITE COUNTER TOP (CTOP-2)
- (RE: CONTRACTOR)
- CONTRACTOR FURNISHED, CONTRACTOR INSTALLED

WALL

WALL PAINT 1 (WP-1) | FIELD PAINT
- MANUFACTURER: SHERWIN WILLIAMS
- COLOR: 231 / 216 / 189
- NAME: ROYCROFT VELLUM - SW 2833

WALL PAINT 2 (WP-2)
- MANUFACTURER: SHERWIN WILLIAMS
- COLOR: 193 / 164 / 133
- NAME: FARRO - SW 9103

WALL TILE 1 (WT-1)
- MANUFACTURER: DALTILE
- COLLECTION: FONTE
- MODEL: PIER WHITE
- SIZE: 12" X 24"
- COLOR: M012
- PATTERN: RECTANGLE

WALL TILE 2 (WT-2)
- MANUFACTURER: DALTILE
- TYPE: REMEDY
- MODEL: TONIC
- COLOR: RD26
- SIZE: 1" X 10"
- PATTERN: RECTANGLE

WALL BASE 1 (WB-1)
- MANUFACTURER: ROPPE / 700 SERIES
- COLOR: 52 / 35 / 32
- NAME: 110 BROWN

HM DOOR PAINT 1 (MTL-1)
- MANUFACTURER: SHERWIN WILLIAMS
- COLOR: 79 / 52 / 38
- NAME: FRENCH ROAST - SW 6069

FIBER REINFORCED PLASTIC (FRP-1)
- MANUFACTURER: USFRP
- COLOR: BRIGHT WHITE
- TYPE: CLASS-A (PEBBLED)

STAINLESS STEEL 1 (S STL-1)
REFER TO SPECS

CEILING

2 X 2 DROP CEILING MILDEW RESISTANT (DC-1)
- MANUFACTURER:
- COLLECTION:
- COLOR:

2 X 2 DROP CEILING (DC-2)
- MANUFACTURER:
- COLLECTION:
- COLOR:

GYPSUM CEILING (GC-1)
- MANUFACTURER:
- COLLECTION:
- COLOR: PT-1

MILDEW RESISTANT GYPSUM CEILING (GC-2)
- MANUFACTURER:
- COLLECTION:
- COLOR: PT-1

KEYNOTES

203	WALL MOUNTED FLAT SCREEN TV
207	WALL MOUNTED GEAR LOCKERS - RE: OFOI. 2X6 IN-WALL BLOCKING BY CONTRACTOR. GC TO COORDINATE
208	ICE MACHINE
211	WASHER EXTRACTOR
219	STACKED WASHER/DRYER UNIT (STAINLESS FINISH)
255	WATER HEATER
256	AIR COMPRESSOR
257	GEAR DRYER

PROFESSIONAL SEAL

REGISTERED ARCHITECT
RICHARD J. MARTINEZ
23149
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LOGO/CONTACT

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Architectural
Martinez Architects

Civil
Hill Country Civil

Landscape
Evergreen Landscape Group

Structural
Matrix Structural

MEP
Emerald MEP

Technology
Imagine IT

Alerting
WestNET

STATION #42

Hays County ESD #4
xxxxx
Wimberley, TX 78676

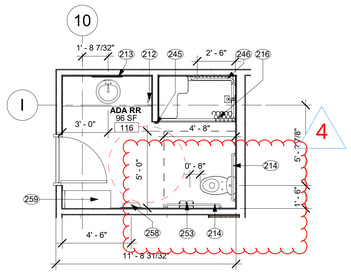
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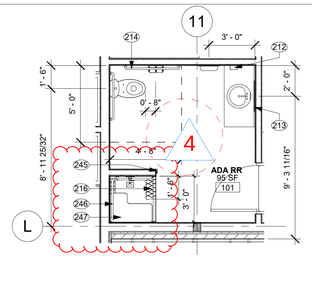
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7	ADDENDUM 3	28-OCT-2026
8	ADDENDUM 4	4-NOV-2026

INTERIOR ELEVATIONS

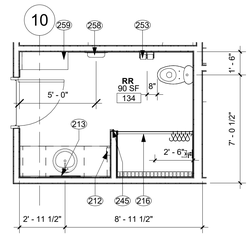
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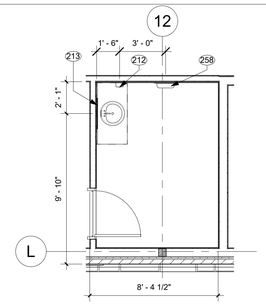
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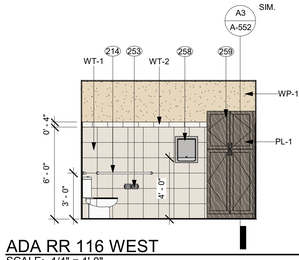
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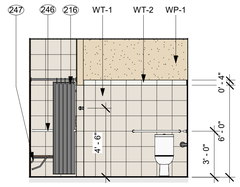
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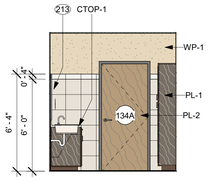
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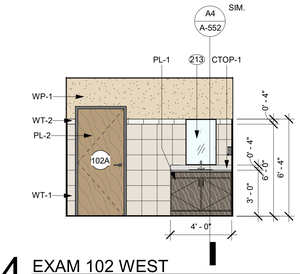
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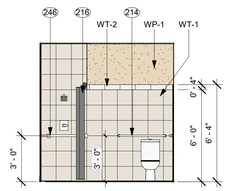
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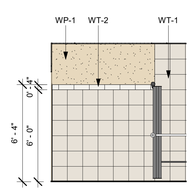
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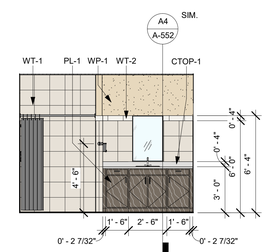
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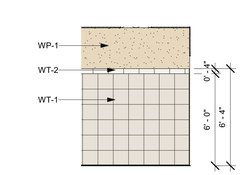
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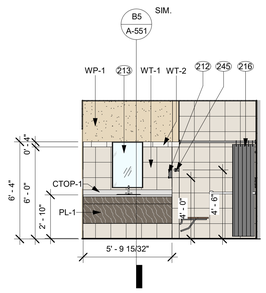
C2 ADA RR 101 SOUTH
SCALE: 1/4" = 1'-0"



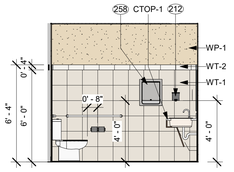
C3 RR 134 SOUTH
SCALE: 1/4" = 1'-0"



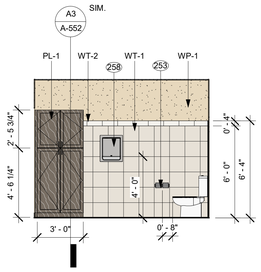
C4 EXAM 102 SOUTH
SCALE: 1/4" = 1'-0"



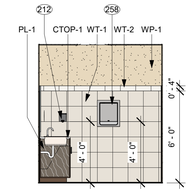
B1 ADA RR 116 EAST
SCALE: 1/4" = 1'-0"



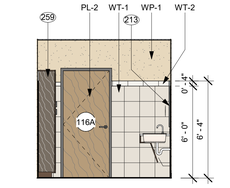
B2 ADA RR 101 NORTH
SCALE: 1/4" = 1'-0"



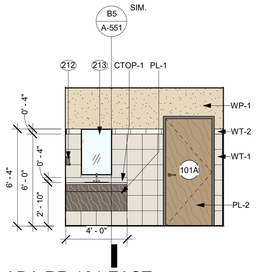
B3 RR 134 NORTH
SCALE: 1/4" = 1'-0"



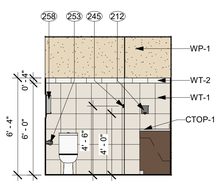
B4 EXAM 102 NORTH
SCALE: 1/4" = 1'-0"



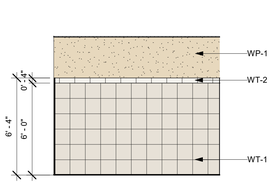
A1 ADA RR 116 NORTH
SCALE: 1/4" = 1'-0"



A2 ADA RR 101 EAST
SCALE: 1/4" = 1'-0"



A3 RR 134 EAST
SCALE: 1/4" = 1'-0"



A4 EXAM 102 EAST
SCALE: 1/4" = 1'-0"

GENERAL NOTES

1. ALL FINISH MATERIAL COLORS/PATTERNS/STYLES TO BE DETERMINED BY ARCHITECT FROM MANUFACTURER'S FULL RANGE OF COLORS.
2. ALL HOLLOW METAL DOOR FRAMES & DOORS SHALL BE PAINTED (PT-2).
3. RE: SPECIFICATIONS FOR ADDITIONAL FINISH INFORMATION & REQUIREMENTS.
4. ALL EXPOSED STEEL FRAMING (INTERIOR & EXTERIOR) SHALL BE PAINTED (PT-4).
5. PROVIDE FULL HEIGHT CORNER GUARDS AT ALL OUTSIDE GYPSUMCORNERS.
6. ALL CABINETS SHALL BE WOOD LAMINATED (U.N.O.)
7. ALL COUNTERTOPS SHALL BE SOLID SURFACE (U.N.O.)
8. RE: A-161 FOR EXTENT AND HEIGHT OF CEILING FURRDOWNS / TRANSITIONS.
9. COLORS IN DRAWINGS AND LEGENDS ARE FOR REPRESENTATION PURPOSES ONLY AND DO NOT DEPICT ACTUAL FINISHES.
10. ALL WALLS SHALL RECEIVE FIELD PAINT COLOR, "PT-1" (U.N.O., RE: FINISH PLAN)
11. ALL GYP. WALLS SHALL RECEIVE "WB-1".
12. INTERIOR CMU WALLS SHALL BE PAINTED (PT-1) AND SHALL NOT RECEIVE WALL BASE.
13. F.F.& E. SHOWN AS BASIS OF DESIGN. (BY OWNER; U.N.O.)
14. ALL DORM LOCKER STORAGE FURRING SHALL BE PAINTED (PT-2, U.N.O.)
15. ALL FLOOR & WALL MATERIAL TRANSITIONS SHALL RECEIVE METAL SCHLUTER TRIM.
16. ALL RESTROOM AND SHOWER ROOMS WALLS SHALL RECEIVE WALL TILE (WT-1) TO 6' 0" A.F.F.
17. PROVIDE SCHLUTER TRIM FOR RESTROOM & SHOWER CORNER CONDITIONS AND A TOP CAP FOR TRANSITIONS TO GYP BD.
18. 2X6 IN-WALL BLOCKING FOR GEAR LOCKERS BY CONTRACTOR. GC TO COORDINATE MOUNTING HEIGHT WITH OWNER.

FINISH SCHEDULE

INTERIOR FINISHES

FLOOR

LUXURY VINYL TILE 1 (LVT-1)
- MANUFACTURER: TARKETT
- COLLECTION: EVENT + WOOD
- MODEL: CRAFTED PLANK
- SIZE: 6" X 48"
- COLOR: PACIFIC WALNUT

LUXURY VINYL TILE 2 (LVT-2)
- MANUFACTURER: TARKETT
- COLLECTION: EVENT + WOOD
- MODEL: CRAFTED PLANK
- SIZE: 6" X 48"
- COLOR: ANTIQUE WALNUT

FLOOR TILE 1 (FT-1)
- MANUFACTURER: DALTILE
- COLLECTION: NATURAL STONE MARBLE
- MODEL: FIRST SNOW ELEGANCE SQUARE
- SIZE: 12" X 12"
- COLOR: M190

RUBBER FLOORING (RF-1)
- MANUFACTURER: FLEXCO
- COLLECTION: PRIME SPORTS
- MODEL: STARLIGHT PSF-204 RUBBER TILE
- SIZE: 3/8" GAUGE
- COLOR: BLACK W/ RED

SEALED CONCRETE (SC-1)
(RE: SPECS)

MILLWORK

PLASTIC LAMINATE 1 (PL-1)
- MANUFACTURER: WILSONART
- COLOR: 72, 60, 48
- NAME: FREMONT OAK

PLASTIC LAMINATE 2 (PL-2)
- MANUFACTURER: WILSONART
- COLOR: 169, 158, 139
- NAME: HARBOR HICKORY

STAINED PLYWOOD (SP-1)
- (RE: CONTRACTOR)
- CONTRACTOR FURNISHED, CONTRACTOR INSTALLED

COUNTER TOP 1 (CTOP-1)
- MANUFACTURER: WILSONART
- COLOR: 243, 248, 243
- NAME: DESIGNER WHITE D354SL

GRANITE COUNTER TOP (CTOP-2)
- (RE: CONTRACTOR)
- CONTRACTOR FURNISHED, CONTRACTOR INSTALLED

CEILING

2 X 2 DROP CEILING MILDEW RESISTANT (DC-1)
- MANUFACTURER:
- COLLECTION:
- COLOR:

2 X 2 DROP CEILING (DC-2)
- MANUFACTURER:
- COLLECTION:
- COLOR:

GYPSUM CEILING (GC-1)
- MANUFACTURER:
- COLLECTION:
- COLOR: PT-1

MILDEW RESISTANT GYPSUM CEILING (GC-2)
- MANUFACTURER:
- COLLECTION:
- COLOR: PT-1

WALL

WALL PAINT 1 (WP-1) | FIELD PAINT
- MANUFACTURER: SHERWIN WILLIAMS
- COLOR: 231 / 216 / 189
- NAME: ROYCROFT VELLUM - SW 2833

WALL PAINT 2 (WP-2)
- MANUFACTURER: SHERWIN WILLIAMS
- COLOR: 193 / 164 / 133
- NAME: FARRO - SW 9103

WALL TILE 1 (WT-1)
- MANUFACTURER: DALTILE
- COLLECTION: FONTE
- MODEL: PIER WHITE
- SIZE: 12" X 24"
- COLOR: M012
- PATTERN: RECTANGLE

WALL TILE 2 (WT-2)
- MANUFACTURER: DALTILE
- TYPE: REMEDY
- MODEL: TONIC
- COLOR: RD26
- SIZE: 1" X 10"
- PATTERN: RECTANGLE

WALL BASE 1 (WB-1)
- MANUFACTURER: ROPPE / 700 SERIES
- COLOR: 52 / 35 / 32
- NAME: 110 BROWN

HM DOOR PAINT 1 (MTL-1)
- MANUFACTURER: SHERWIN WILLIAMS
- COLOR: 79 / 52 / 38
- NAME: FRENCH ROAST - SW 6069

FIBER REINFORCED PLASTIC (FRP-1)
- MANUFACTURER: USFRP
- COLOR: BRIGHT WHITE
- TYPE: CLASS-A (PEBBLED)

STAINLESS STEEL 1 (S STL-1)
REFER TO SPECS

KEYNOTES

212	WALL MOUNTED SOAP DISPENSER
213	MIRROR AND FRAME
214	ADA GRAB BAR
216	STAINLESS STEEL SHOWER ROD (ULINE 36" #H12007 & 60" #H12008; CURTAINS & HOOKS BY CLIENT)
245	SHOWER ROBE HOOK (DELTA "KAYRA"; MATCH FINISH TO SHOWER HEAD)
246	ADA SHOWER CORNER GRAB BAR
247	WALL-MOUNTED ADA COMPLIANT FOLDING SHOWER SEAT
253	TOILET PAPER DISPENSER (BY OWNER)
258	HAND TOWEL DISPENSER (BY OWNER)
259	TALL CABINET

PROFESSIONAL SEAL

REGISTERED ARCHITECT RICHARD J. MARTINEZ 23149 STATE OF TEXAS

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Hill Country Civil

Landscape
Evergreen Landscape Group

Structural
Matrix Structural

MEP
Emerald MEP

Technology
Imagine IT

Alerting
WestNET

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Hays County ESD #4
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Wimberley, TX 78676

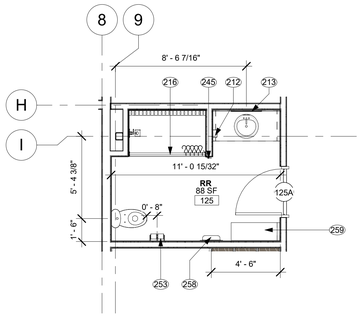
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DATE: **20-OCT-2026**

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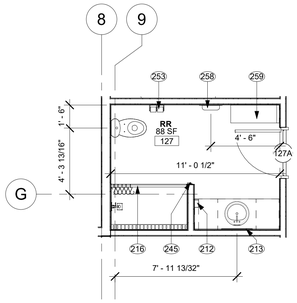
6	IFB	20-OCT-2026
7	ADDENDUM 3	28-OCT-2026
8	ADDENDUM 4	4-NOV-2026

LARGE SCALE TOILET PLANS

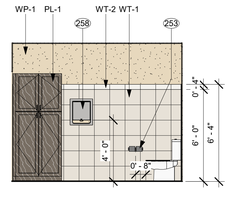
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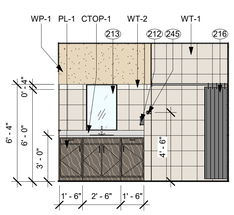
E1 RR 125 ENLARGED PLAN
SCALE: 1/4" = 1'-0"



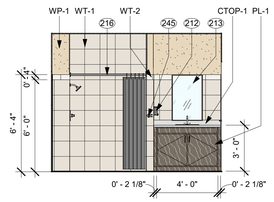
E2 RR 127 ENLARGED PLAN
SCALE: 1/4" = 1'-0"



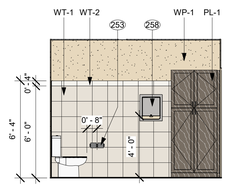
D1 RR 125 SOUTH ELEVATION
SCALE: 1/4" = 1'-0"



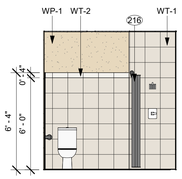
D2 RR 127 SOUTH ELEVATION
SCALE: 1/4" = 1'-0"



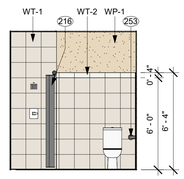
C1 RR 125 NORTH ELEVATION
SCALE: 1/4" = 1'-0"



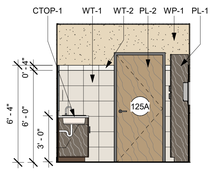
C2 RR 127 NORTH ELEVATION
SCALE: 1/4" = 1'-0"



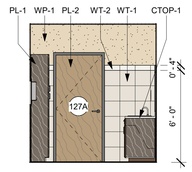
B1 RR 125 WEST ELEVATION
SCALE: 1/4" = 1'-0"



B2 RR 127 WEST ELEVATION
SCALE: 1/4" = 1'-0"



A1 RR 125 EAST ELEVATION
SCALE: 1/4" = 1'-0"



A2 RR 127 EAST ELEVATION
SCALE: 1/4" = 1'-0"

GENERAL NOTES

1. ALL FINISH MATERIAL COLORS/PATTERNS/STYLES TO BE DETERMINED BY ARCHITECT FROM MANUFACTURER'S FULL RANGE OF COLORS.
2. ALL HOLLOW METAL DOOR FRAMES & DOORS SHALL BE PAINTED (PT-2).
3. RE: SPECIFICATIONS FOR ADDITIONAL FINISH INFORMATION & REQUIREMENTS.
4. ALL EXPOSED STEEL FRAMING (INTERIOR & EXTERIOR) SHALL BE PAINTED (PT-4).
5. PROVIDE FULL HEIGHT CORNER GUARDS AT ALL OUTSIDE GYPSUMCORNERS.
6. ALL CABINETS SHALL BE WOOD LAMINATED (U.N.O.)
7. ALL COUNTERTOPS SHALL BE SOLID SURFACE (U.N.O.)
8. RE: A-161 FOR EXTENT AND HEIGHT OF CEILING FURRDOWNS / TRANSITIONS.
9. COLORS IN DRAWINGS AND LEGENDS ARE FOR REPRESENTATION PURPOSES ONLY AND DO NOT DEPICT ACTUAL FINISHES.
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12. INTERIOR CMU WALLS SHALL BE PAINTED (PT-1) AND SHALL NOT RECEIVE WALL BASE.
13. F.F.& E. SHOWN AS BASIS OF DESIGN. (BY OWNER; U.N.O.)
14. ALL DORM LOCKER STORAGE FURRING SHALL BE PAINTED (PT-2, U.N.O.)
15. ALL FLOOR & WALL MATERIAL TRANSITIONS SHALL RECEIVE METAL SCHLUTER TRIM.
16. ALL RESTROOM AND SHOWER ROOMS WALLS SHALL RECEIVE WALL TILE (WT-1) TO 6' 0" A.F.F.
17. PROVIDE SCHLUTER TRIM FOR RESTROOM & SHOWER CORNER CONDITIONS AND A TOP CAP FOR TRANSITIONS TO GYP BD.
18. 2X6 IN-WALL BLOCKING FOR GEAR LOCKERS BY CONTRACTOR. GC TO COORDINATE MOUNTING HEIGHT WITH OWNER.

FINISH SCHEDULE

INTERIOR FINISHES

FLOOR

LUXURY VINYL TILE 1 (LVT-1)
- MANUFACTURER: TARKETT
- COLLECTION: EVENT + WOOD
- MODEL: CRAFTED PLANK
- SIZE: 6" X 48"
- COLOR: PACIFIC WALNUT

LUXURY VINYL TILE 2 (LVT-2)
- MANUFACTURER: TARKETT
- COLLECTION: EVENT + WOOD
- MODEL: CRAFTED PLANK
- SIZE: 6" X 48"
- COLOR: ANTIQUE WALNUT

FLOOR TILE 1 (FT-1)
- MANUFACTURER: DALTILE
- COLLECTION: NATURAL STONE MARBLE
- MODEL: FIRST SNOW ELEGANCE SQUARE
- SIZE: 12" X 12"
- COLOR: M190

RUBBER FLOORING (RF-1)
- MANUFACTURER: FLEXCO
- COLLECTION: PRIME SPORTS
- MODEL: STARLIGHT PSF-204 RUBBER TILE
- SIZE: 3/8" GAUGE
- COLOR: BLACK W/ RED

SEALED CONCRETE (SC-1)
(RE: SPECS)

MILLWORK

PLASTIC LAMINATE 1 (PL-1)
- MANUFACTURER: WILSONART
- COLOR: 72, 60, 48
- NAME: FREMONT OAK

PLASTIC LAMINATE 2 (PL-2)
- MANUFACTURER: WILSONART
- COLOR: 169, 158, 139
- NAME: HARBOR HICKORY

STAINED PLYWOOD (SP-1)
- (RE: CONTRACTOR)
- CONTRACTOR FURNISHED, CONTRACTOR INSTALLED

COUNTER TOP 1 (CTOP-1)
- MANUFACTURER: WILSONART
- COLOR: 243, 248, 243
- NAME: DESIGNER WHITE D354SL

GRANITE COUNTER TOP (CTOP-2)
- (RE: CONTRACTOR)
- CONTRACTOR FURNISHED, CONTRACTOR INSTALLED

CEILING

2 X 2 DROP CEILING MILDEW RESISTANT (DC-1)
- MANUFACTURER:
- COLLECTION:
- COLOR:

2 X 2 DROP CEILING (DC-2)
- MANUFACTURER:
- COLLECTION:
- COLOR:

WALL

WALL PAINT 1 (WP-1) | FIELD PAINT
- MANUFACTURER: SHERWIN WILLIAMS
- COLOR: 231 / 216 / 189
- NAME: ROYCROFT VELLUM - SW 2833

WALL PAINT 2 (WP-2)
- MANUFACTURER: SHERWIN WILLIAMS
- COLOR: 193 / 164 / 133
- NAME: FARRO - SW 9103

WALL TILE 1 (WT-1)
- MANUFACTURER: DALTILE
- COLLECTION: FONTE
- MODEL: PIER WHITE
- SIZE: 12" X 24"
- COLOR: M012
- PATTERN: RECTANGLE

WALL TILE 2 (WT-2)
- MANUFACTURER: DALTILE
- TYPE: REMEDY
- MODEL: TONIC
- COLOR: RD26
- SIZE: 1" X 10"
- PATTERN: RECTANGLE

WALL BASE 1 (WB-1)
- MANUFACTURER: ROPPE / 700 SERIES
- COLOR: 52 / 35 / 32
- NAME: 110 BROWN

HM DOOR PAINT 1 (MTL-1)
- MANUFACTURER: SHERWIN WILLIAMS
- COLOR: 79 / 52 / 38
- NAME: FRENCH ROAST - SW 6069

FIBER REINFORCED PLASTIC (FRP-1)
- MANUFACTURER: USFRP
- COLOR: BRIGHT WHITE
- TYPE: CLASS-A (PEBBLED)

STAINLESS STEEL 1 (S STL-1)
REFER TO SPECS

GYPSUM CEILING (GC-1)
- MANUFACTURER:
- COLLECTION:
- COLOR: PT-1

MILDEW RESISTANT GYPSUM CEILING (GC-2)
- MANUFACTURER:
- COLLECTION:
- COLOR: PT-1

KEYNOTES

212	WALL MOUNTED SOAP DISPENSER
213	MIRROR AND FRAME
216	STAINLESS STEEL SHOWER ROD (ULINE 36" #H12007 & 60" #H12008; CURTAINS & HOOKS BY CLIENT)
245	SHOWER ROBE HOOK (DELTA "KAYRA"; MATCH FINISH TO SHOWER HEAD)
253	TOILET PAPER DISPENSER (BY OWNER)
258	HAND TOWEL DISPENSER (BY OWNER)
259	TALL CABINET

PROFESSIONAL SEAL

REGISTERED ARCHITECT · RICHARD J. MARTINEZ · 23145 · STATE OF TEXAS

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Landscape
Evergreen Landscape Group

Structural
Matrix Structural

MEP
Emerald MEP

Technology
Imagine IT

Alerting
WestNET

STATION #42
Hays County ESD #4
xxxxx
Wimberley, TX 78676

PROJECT No: **MA 25016**
DATE: **20-OCT-2026**

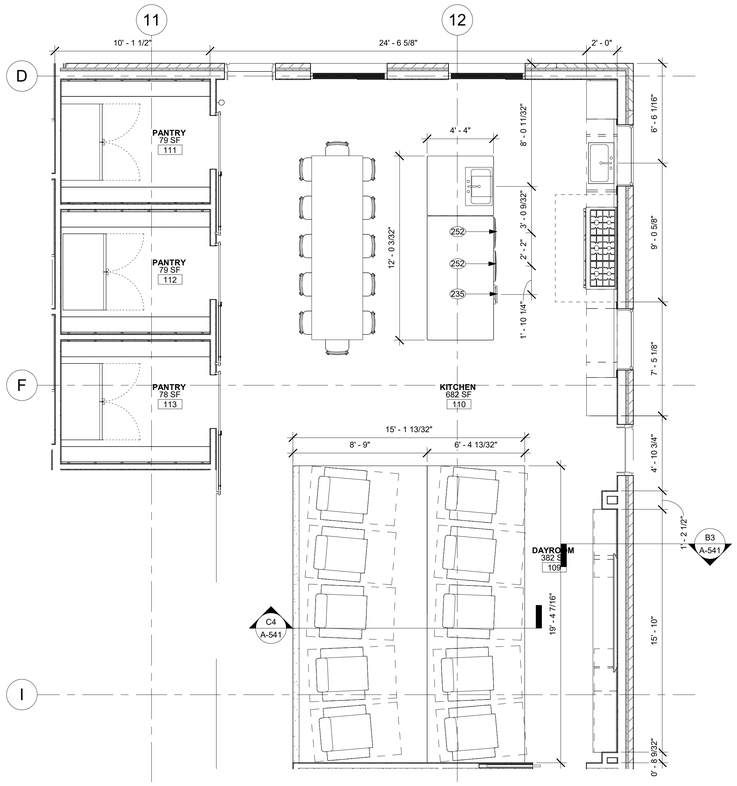
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8	ADDENDUM 4	4-NOV-2026

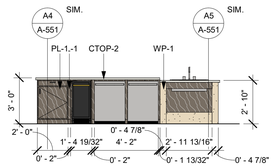
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LARGE SCALE TOILET PLANS

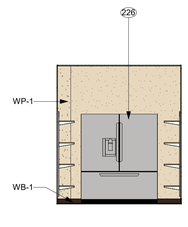
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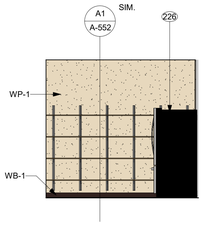
C1 KITCHEN 110 & DAYROOM 109 ENLARGED PLAN
SCALE: 1/4" = 1'-0"



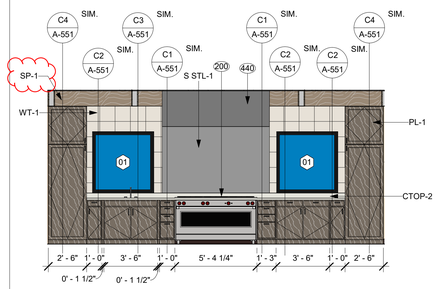
D3 KITCHEN ISLAND
SCALE: 1/4" = 1'-0"



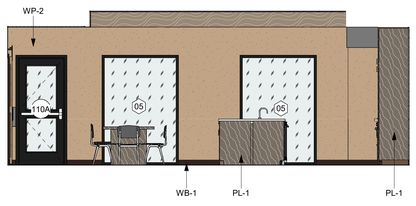
C3 PANTRY 113 WEST
SCALE: 1/4" = 1'-0"



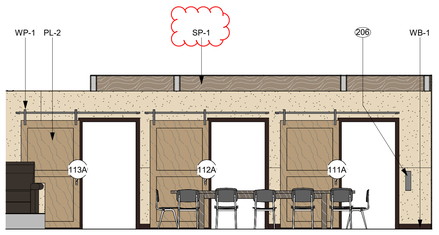
C4 PANTRY 113 SOUTH
SCALE: 1/4" = 1'-0"



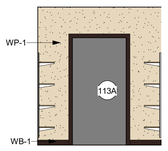
B1 KITCHEN 110 EAST
SCALE: 1/4" = 1'-0"



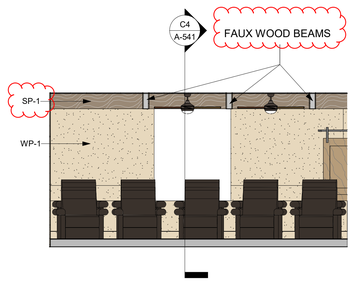
B2 KITCHEN 110 NORTH
SCALE: 1/4" = 1'-0"



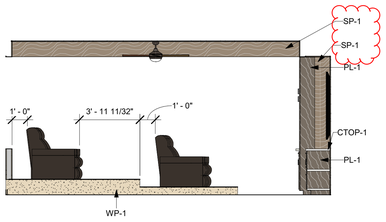
B3 KITCHEN 110 WEST
SCALE: 1/4" = 1'-0"



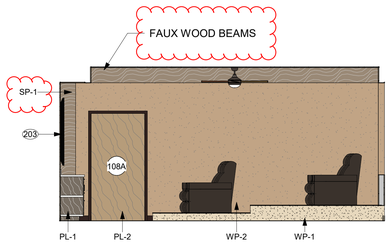
B4 PANTRY 113 EAST
SCALE: 1/4" = 1'-0"



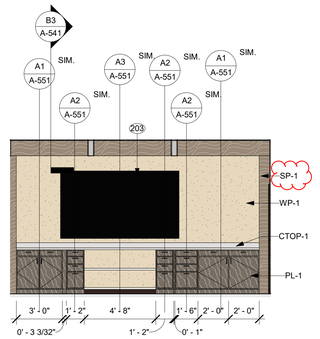
A1 DAYROOM 109 EAST
SCALE: 1/4" = 1'-0"



A2 DAYROOM 109 NORTH
SCALE: 1/4" = 1'-0"



A3 DAYROOM 109 SOUTH
SCALE: 1/4" = 1'-0"



A4 DAYROOM 109 WEST
SCALE: 1/4" = 1'-0"

GENERAL NOTES

1. ALL FINISH MATERIAL COLORS/PATTERNS/STYLES TO BE DETERMINED BY ARCHITECT FROM MANUFACTURER'S FULL RANGE OF COLORS.
2. ALL HOLLOW METAL DOOR FRAMES & DOORS SHALL BE PAINTED (PT-2).
3. RE: SPECIFICATIONS FOR ADDITIONAL FINISH INFORMATION & REQUIREMENTS.
4. ALL EXPOSED STEEL FRAMING (INTERIOR & EXTERIOR) SHALL BE PAINTED (PT-4).
5. PROVIDE FULL HEIGHT CORNER GUARDS AT ALL OUTSIDE GYPSUMCORNERS.
6. ALL CABINETS SHALL BE WOOD LAMINATED (U.N.O.)
7. ALL COUNTERTOPS SHALL BE SOLID SURFACE (U.N.O.)
8. RE: A-161 FOR EXTENT AND HEIGHT OF CEILING FURRDOWNS / TRANSITIONS.
9. COLORS IN DRAWINGS AND LEGENDS ARE FOR REPRESENTATION PURPOSES ONLY AND DO NOT DEPICT ACTUAL FINISHES.
10. ALL WALLS SHALL RECEIVE FIELD PAINT COLOR, "PT-1" (U.N.O., RE: FINISH PLAN)
11. ALL GYP. WALLS SHALL RECEIVE "WB-1".
12. INTERIOR CMU WALLS SHALL BE PAINTED (PT-1) AND SHALL NOT RECEIVE WALL BASE.
13. F.F.& E. SHOWN AS BASIS OF DESIGN. (BY OWNER, U.N.O.)
14. ALL DORM LOCKER STORAGE FURRING SHALL BE PAINTED (PT-2, U.N.O.)
15. ALL FLOOR & WALL MATERIAL TRANSITIONS SHALL RECEIVE METAL SCHLUTER TRIM.
16. ALL RESTROOM AND SHOWER ROOMS WALLS SHALL RECEIVE WALL TILE (WT-1) TO 6' 0" A.F.F.
17. PROVIDE SCHLUTER TRIM FOR RESTROOM & SHOWER CORNER CONDITIONS AND A TOP CAP FOR TRANSITIONS TO GYP BD.
18. 2X6 IN-WALL BLOCKING FOR GEAR LOCKERS BY CONTRACTOR. GC TO COORDINATE MOUNTING HEIGHT WITH OWNER.

FINISH SCHEDULE

INTERIOR FINISHES

FLOOR

LUXURY VINYL TILE 1 (LVT-1)
- MANUFACTURER: TARKETT
- COLLECTION: EVENT + WOOD
- MODEL: CRAFTED PLANK
- SIZE: 6" X 48"
- COLOR: PACIFIC WALNUT

LUXURY VINYL TILE 2 (LVT-2)
- MANUFACTURER: TARKETT
- COLLECTION: EVENT + WOOD
- MODEL: CRAFTED PLANK
- SIZE: 6" X 48"
- COLOR: ANTIQUE WALNUT

FLOOR TILE 1 (FT-1)
- MANUFACTURER: DALTILE
- COLLECTION: NATURAL STONE MARBLE
- MODEL: FIRST SNOW ELEGANCE SQUARE
- SIZE: 12" X 12"
- COLOR: M190

RUBBER FLOORING (RF-1)
- MANUFACTURER: FLEXCO
- COLLECTION: PRIME SPORTS
- MODEL: STARLIGHT PSF-204 RUBBER TILE
- SIZE: 3/8" GAUGE
- COLOR: BLACK W/ RED

SEALED CONCRETE (SC-1)
(RE: SPECS)

WALL

WALL PAINT 1 (WP-1) | FIELD PAINT
- MANUFACTURER: SHERWIN WILLIAMS
- COLOR: 231 / 216 / 189
- NAME: ROYCROFT VELLUM - SW 2833

WALL PAINT 2 (WP-2)
- MANUFACTURER: SHERWIN WILLIAMS
- COLOR: 193 / 164 / 133
- NAME: FARRO - SW 9103

WALL TILE 1 (WT-1)
- MANUFACTURER: DALTILE
- COLLECTION: FONTE
- MODEL: PIER WHITE
- SIZE: 12" X 24"
- COLOR: M012
- PATTERN: RECTANGLE

WALL TILE 2 (WT-2)
- MANUFACTURER: DALTILE
- TYPE: REMEDY
- MODEL: TONIC
- COLOR: RD26
- SIZE: 1"X 10"
- PATTERN: RECTANGLE

WALL BASE 1 (WB-1)
- MANUFACTURER: ROPPE / 700 SERIES
- COLOR: 52 / 35 / 32
- NAME: 110 BROWN

HM DOOR PAINT 1 (MTL-1)
- MANUFACTURER: SHERWIN WILLIAMS
- COLOR: 79 / 52 / 38
- NAME: FRENCH ROAST - SW 6069

FIBER REINFORCED PLASTIC (FRP-1)
- MANUFACTURER: USFRP
- COLOR: BRIGHT WHITE
- TYPE: CLASS-A (PEBBLED)

STAINLESS STEEL 1 (S STL-1)
REFER TO SPECS

MILLWORK

PLASTIC LAMINATE 1 (PL-1)
- MANUFACTURER: WILSONART
- COLOR: 72, 60, 48
- NAME: FREMONT OAK

PLASTIC LAMINATE 2 (PL-2)
- MANUFACTURER: WILSONART
- COLOR: 169, 158, 139
- NAME: HARBOR HICKORY

STAINED PLYWOOD (SP-1)
- (RE: CONTRACTOR)
- CONTRACTOR FURNISHED, CONTRACTOR INSTALLED

COUNTER TOP 1 (CTOP-1)
- MANUFACTURER: WILSONART
- COLOR: 243, 248, 243
- NAME: DESIGNER WHITE D354SL

GRANITE COUNTER TOP (CTOP-2)
- (RE: CONTRACTOR)
- CONTRACTOR FURNISHED, CONTRACTOR INSTALLED

CEILING

2 X 2 DROP CEILING MILDEW RESISTANT (DC-1)
- MANUFACTURER:
- COLLECTION:
- COLOR:

2 X 2 DROP CEILING (DC-2)
- MANUFACTURER:
- COLLECTION:
- COLOR:

GYPSUM CEILING (GC-1)
- MANUFACTURER:
- COLLECTION:
- COLOR: PT-1

MILDEW RESISTANT GYPSUM CEILING (GC-2)
- MANUFACTURER:
- COLLECTION:
- COLOR: PT-1

KEYNOTES

200	60" PROPANE RANGE
203	WALL MOUNTED FLAT SCREEN TV
206	FIRE EXTINGUISHER
226	REFRIGERATOR (BY OWNER)
235	UNDERCOUNTER ICE MACHINE
252	24" DISHWASHER - RE: SPECS
440	COMMERCIAL KITCHEN HOOD

PROFESSIONAL SEAL

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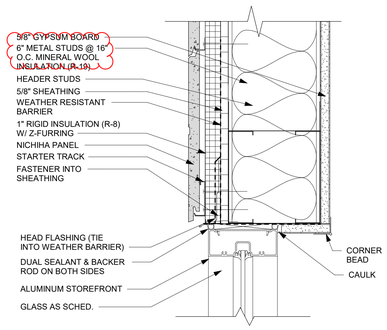
PROJECT No: **MA 25016**
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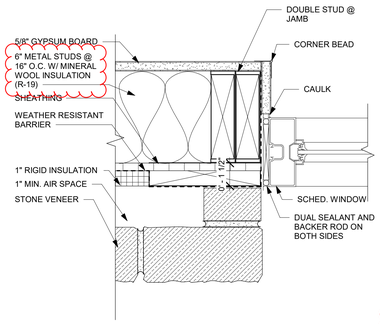
6	IFB	20-OCT-2026
7	ADDENDUM 3	28-OCT-2026
8	ADDENDUM 4	4-NOV-2026

KITCHEN PLANS

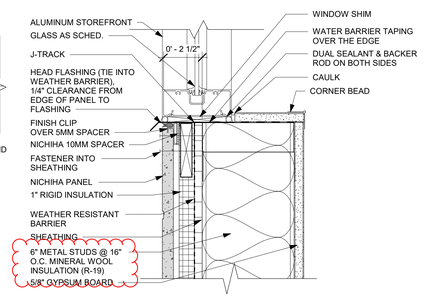
A-421



D1 WINDOW/STOREFRONT HEAD @ NICHIHA
SCALE: 3" = 1'-0"



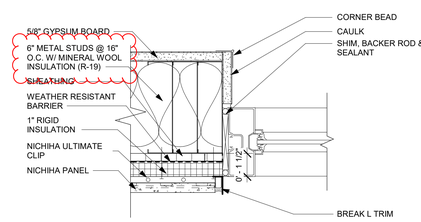
D2 WINDOW JAMB @ STONE
SCALE: 3" = 1'-0"



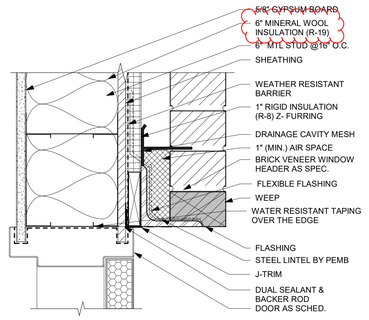
D3 WINDOW/STOREFTON SILL STL. @ NICHIHA
SCALE: 3" = 1'-0"

NOTES:

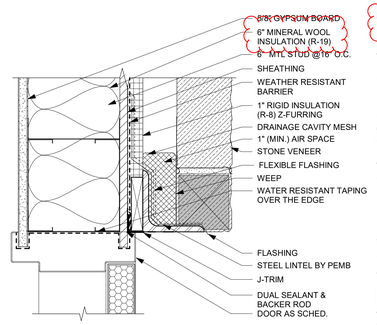
1. THIS CONCEPTUAL DETAIL IS A GUIDE FOR INSTALLATION OF NICHIHA PRODUCTS. ARCHITECTS/ENGINEERS/CONTRACTORS ARE RESPONSIBLE FOR SUCCESSFUL APPLICATION WHICH DEPENDS UPON SUBSTRATE DESIGN AND CONSTRUCTION BUILT IN ACCORDANCE WITH BEST PRACTICES AND LOCAL BUILDING CODES.
2. FOR THIS APPLICATION ONLY USE NICHIHA AWP-3030 PANEL SET VERTICALLY WITH JEL778 CLIPS.
3. SHEATHING (7/16" OR THICKER APA RATED OSB OR PLYWOOD REQUIRED).
4. METAL FRAMING (METAL FRAMING MEMBERS MUST BE A MINIMUM OF 18 GA.)



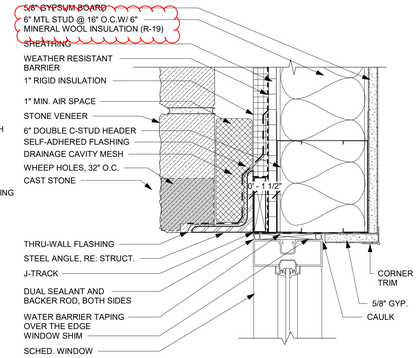
D4 WINDOW/STOREFRONT JAMB DTL.@NICHIHA
SCALE: 3" = 1'-0"



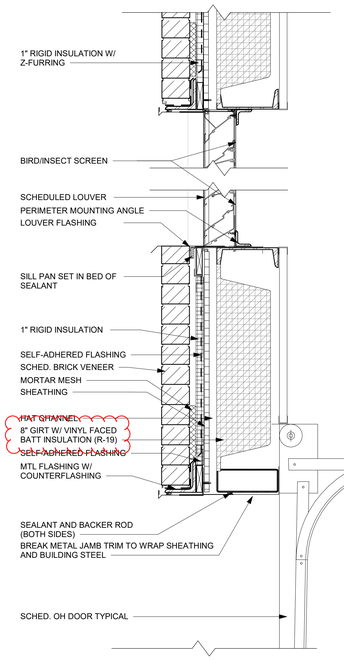
C1 DOOR HEAD @ BRICK & STUD
SCALE: 3" = 1'-0"



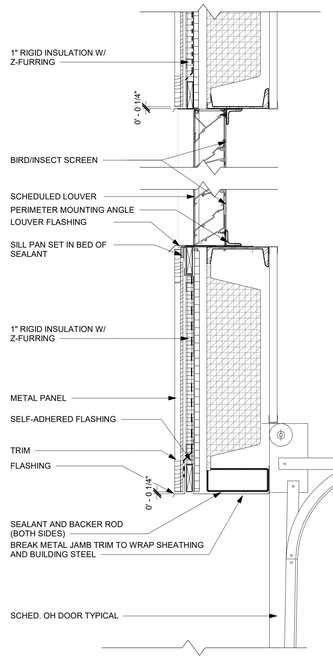
C2 DOOR HEAD @ STONE & STUD
SCALE: 3" = 1'-0"



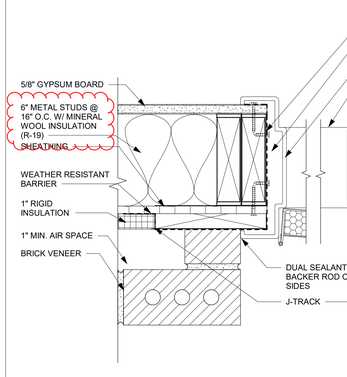
C3 WINDOW HEAD @ STONE
SCALE: 3" = 1'-0"



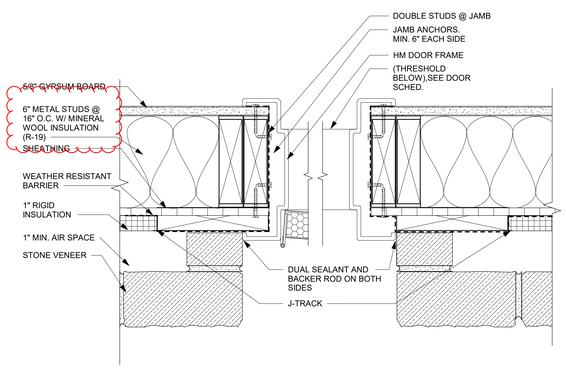
B4 OVERHEAD SECTION DOOR HEAD DETAIL 1
SCALE: 1 1/2" = 1'-0"



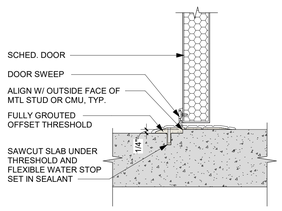
B5 OVERHEAD SECTION DOOR HEAD DETAIL 2
SCALE: 1 1/2" = 1'-0"



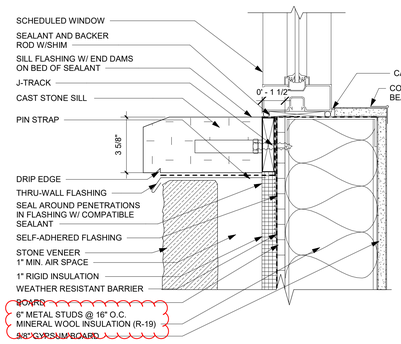
B1 DOOR JAMB @ BRICK
SCALE: 3" = 1'-0"



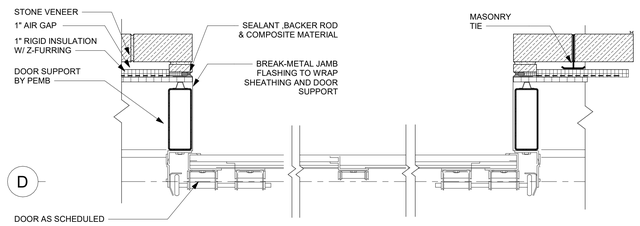
B2 HOLLOW METAL DOOR JAMB @ STONE
SCALE: 3" = 1'-0"



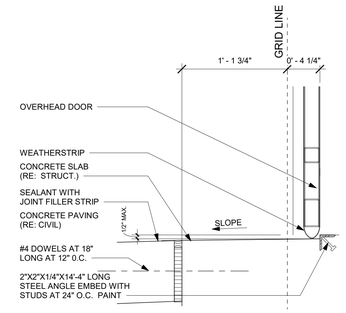
A1 EXT. DOOR SILL
SCALE: 3" = 1'-0"



A2 WINDOW SILL @ STONE
SCALE: 3" = 1'-0"



A3 OVERHEAD DOOR JAMB @ STONE
SCALE: 1 1/2" = 1'-0"



A5 OVERHEAD DOOR SILL DTL.
SCALE: 1 1/2" = 1'-0"

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REGISTERED ARCHITECT RICHARD J. MARTINEZ 23149 STATE OF TEXAS

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Wimberley, TX 78676

PROJECT No: **MA 25016**
DATE: **20-OCT-2026**

ISSUE

#		
1	100% DD	06-JAN-2026
2	25% CD	25-FEB-2026
3	75% CD	06-APR-2026
4	98% CD	04-MAY-2026
5	IFP	01-JUN-2026
6	IFB	20-OCT-2026
8	ADDENDUM 4	4-NOV-2026

4

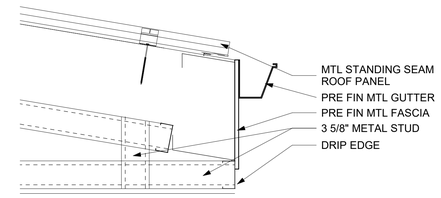
EXTERIOR DETAILS - DOOR, WINDOW & LOUVER DETAILS

A-521

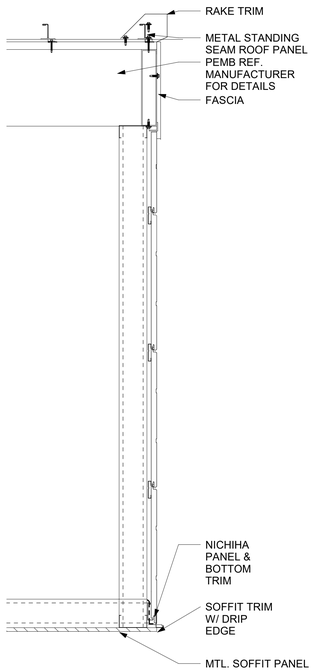
GENERAL NOTES

1. ROOFING MANUF. / CONTRACTOR SHALL PROVIDE AND SUBMIT WEATHER-TIGHTNESS WARRANTY TO OWNER FOR APPROVAL AS SPECIFIED.
2. ROOFING MANUF. TO SUBMIT DETAILED SHOP DRAWINGS SHOWING ALL ROOF EDGE AND CONNECTION DETAILS FOR ARCHITECT'S APPROVAL.
3. ALL EXTERIOR METAL TO BE SELECTED BY ARCHITECT FROM MANUF. FULL RANGE OF COLORS AND FINISHES.
4. COORD. MEP DWGS. FOR ALL ROOF PENETRATIONS. ALL PENETRATIONS SHALL BE FINISHED TO MATCH ROOF PANEL COLOR.
5. IN NO INSTANCE SHALL TREATED FRAMING BE IN DIRECT CONTACT WITH METAL ROOFING PANELS.
6. ALL CURBS TO BE SUPPLIED BY METAL ROOFING MANUF. NO FIELD FABRICATED CURBS SHALL BE PERMITTED.
7. ALL STANDING SEAM ROOF SLOPE ARE TO BE A MINIMUM OF 3:12 SLOPE UNLESS NOTED OTHERWISE. REFERENCE ROOF PLAN.
8. APPROVED METAL FLASHING AT ALL HIPS AND VALLEYS RE: DETAILS AND SPECS.
9. CONTRACTOR SHALL VERIFY AND COORDINATE ALL ROOF PENETRATIONS ON MEP AND STRUCTURAL.
10. SIDEWALL CONDITIONS MUST USE STEP FLASHING AS FOLLOWS:
    A. AT STANDING SEAM METAL ROOF ALL SIDEWALL CONDITIONS MUST USE STAINLESS STEEL THRU WALL FLASHING INCORPORATED INTO STANDARD PANEL MANUFRS. DETAILS
    B. SURFACE MOUNTED FLASHING IS NOT ACCEPTABLE.
11. PRE-FINISHED METAL GUTTER AND 4" PVC DOWNSPOUT TYP. RE: DETAILS AND SPECS.
12. REFER TO ARCHITECTURAL SHEET METAL MANUAL, LATEST EDITION, SMACNA.
13. DOWNSPOUTS TO TERMINATE TO UNDERGROUND STORM SYSTEM.
14. REFERENCE WALL SECTIONS FOR OVERHEAD DIMENSIONS.

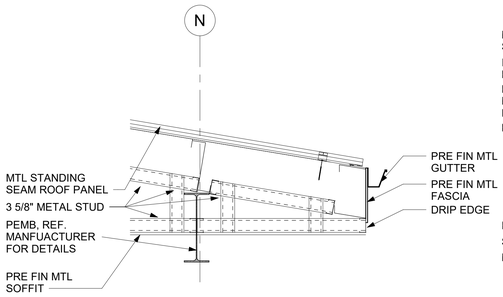
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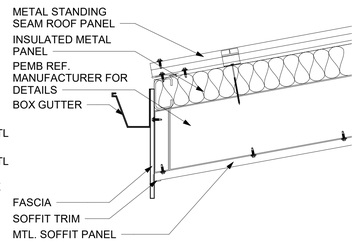
B4 EAVE DTL @ MTL PANEL
SCALE: 1 1/2" = 1'-0"



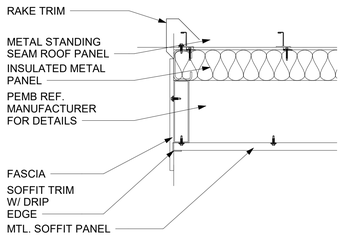
A4 RAKE DTL @ MTL PANEL
SCALE: 1 1/2" = 1'-0"



A1 PATIO CEILING TO ROOFING DETAIL
SCALE: 3/4" = 1'-0"



A2 EAVE DTL @ INSUL. MTL PANEL
SCALE: 1 1/2" = 1'-0"



A3 RAKE DTL @ INSUL. MTL PANEL
SCALE: 1 1/2" = 1'-0"

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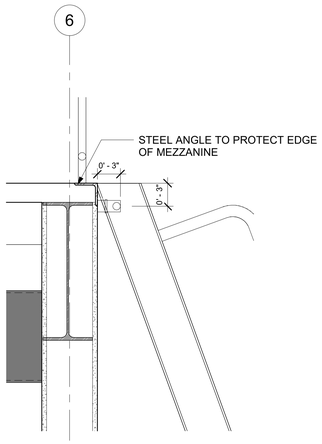
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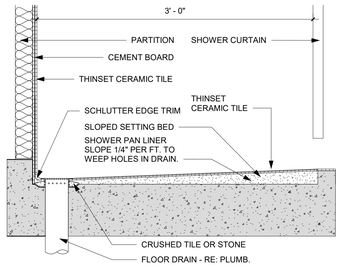
6	IFB	20-OCT-2026
8	ADDENDUM 4	4-NOV-2026

EXTERIOR DETAILS - TYPICAL ROOF DETAILS

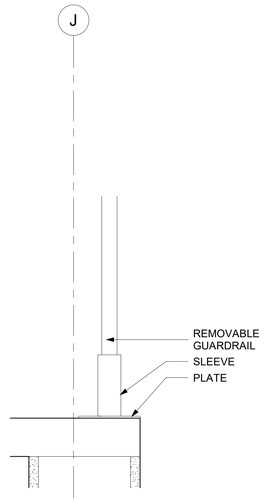
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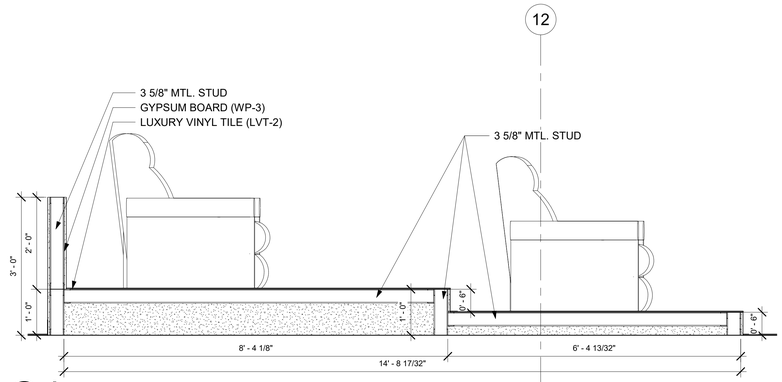
C1 APP BAY LADDER MEZZANINE EDGE DETAIL
SCALE: 1 1/2" = 1'-0"



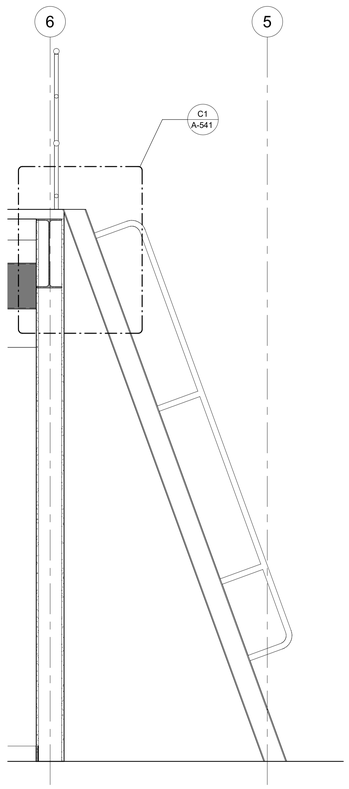
C2 SHOWER
SCALE: 1 1/2" = 1'-0"



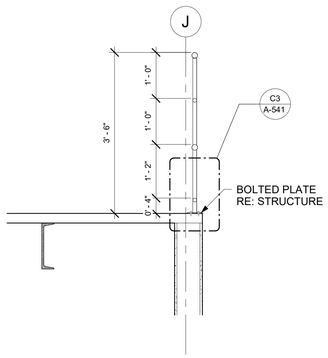
C3 REMOVABLE GUARDRAIL BASE
SCALE: 3" = 1'-0"



C4 RAISED PLATFORM SEATING DETAIL
SCALE: 3/4" = 1'-0"

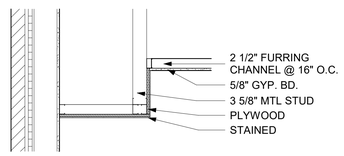


A1 APP BAY LADDER
SCALE: 3/4" = 1'-0"

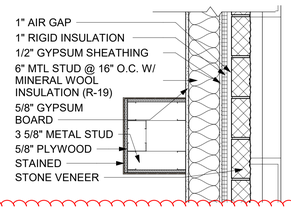


B2 MEZZANINE EDGE
SCALE: 3/4" = 1'-0"

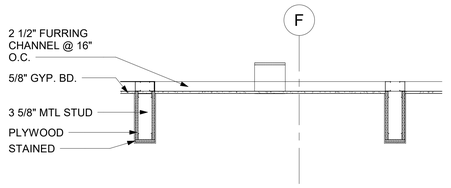
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B3 FAUX WOOD BEAM FUR DOWN
SCALE: 3/4" = 1'-0"



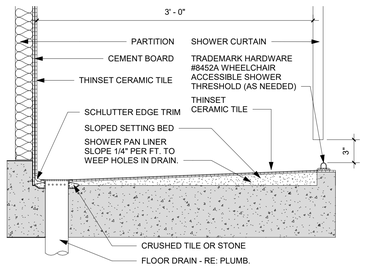
B4 FAUX WOOD COLUMN PLAN DETAIL
SCALE: 1" = 1'-0"



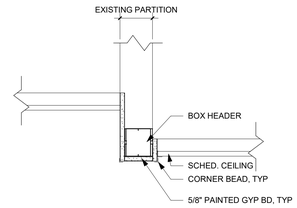
B5 FAUX WOOD INTERIOR BEAM
SCALE: 3/4" = 1'-0"

4

4

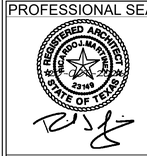


A2 ADA SHOWER CURB
SCALE: 1 1/2" = 1'-0"



A5 CEILING FUR-DOWN
SCALE: 1 1/2" = 1'-0"

PROFESSIONAL SEAL



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DESIGN TEAM

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Civil
Hill Country Civil

Landscape
Evergreen Landscape Group

Structural
Matrix Structural

MEP
Emerald MEP

Technology
Imagine IT

Alerting
WestNET

STATION #42
Hays County ESD #4
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Wimberley, TX 78676

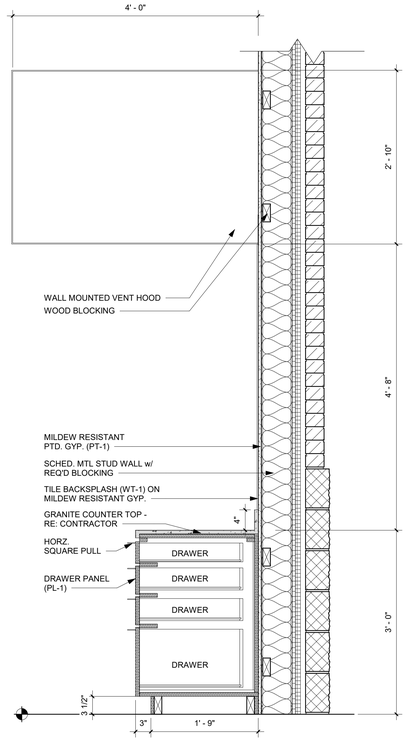
PROJECT No: **MA 25016**
DATE: **20-OCT-2026**

ISSUE

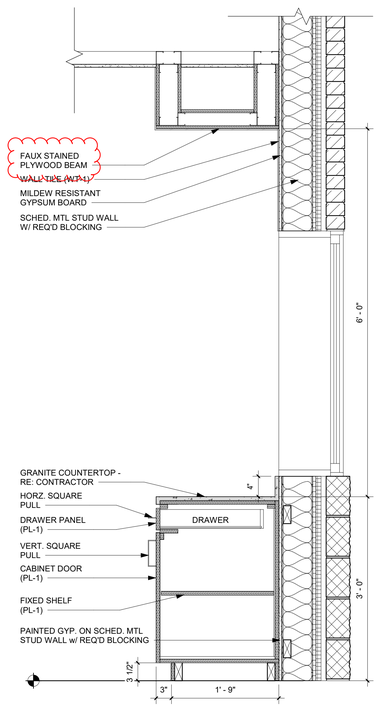
1	100% DD	06-JAN-2026
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8	ADDENDUM 4	4-NOV-2026

INTERIOR DETAILS

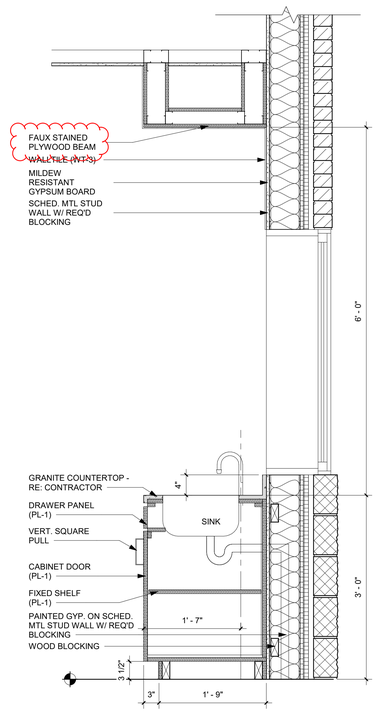
A-541



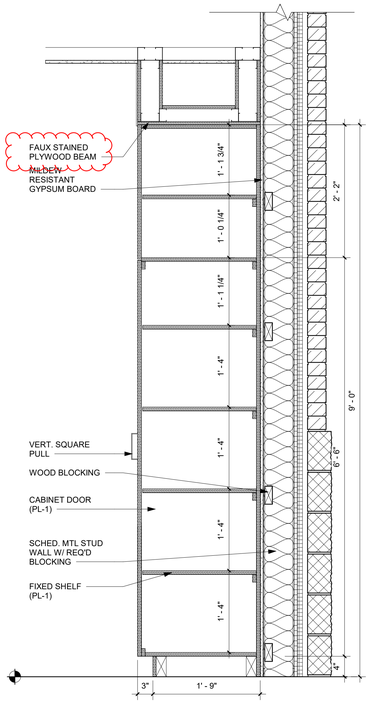
C1 LOWER CABINETS W/ 4 DRAWERS/HOOD
SCALE: 1" = 1'-0"



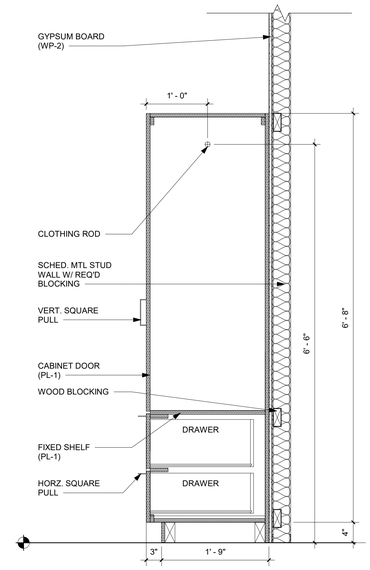
C2 CABINET W/ DRAWERS/FAUX BEAM
SCALE: 1" = 1'-0"



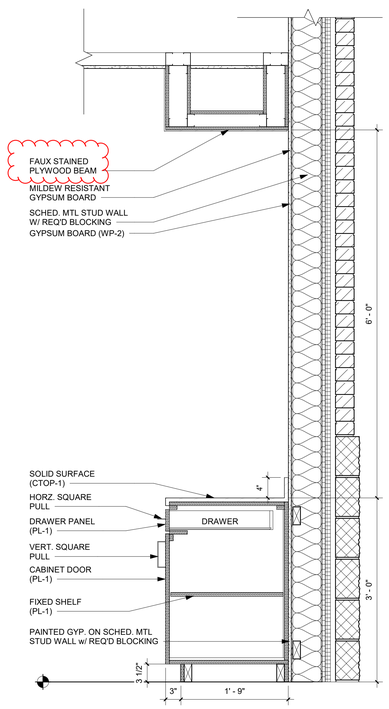
C3 SINK W/ CABINET/FAUX BEAM
SCALE: 1" = 1'-0"



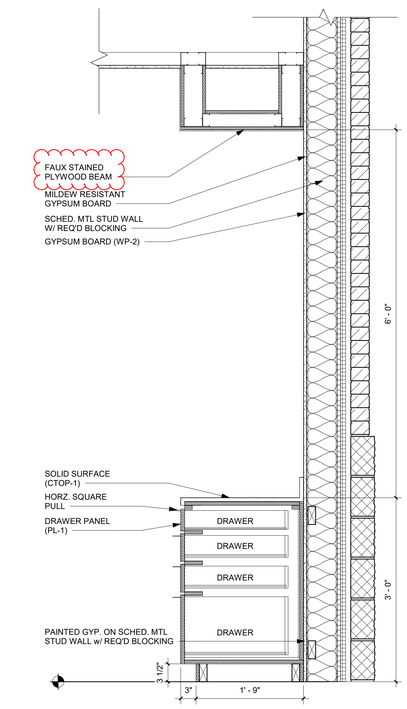
C4 KITCHEN TALL CABINET
SCALE: 1" = 1'-0"



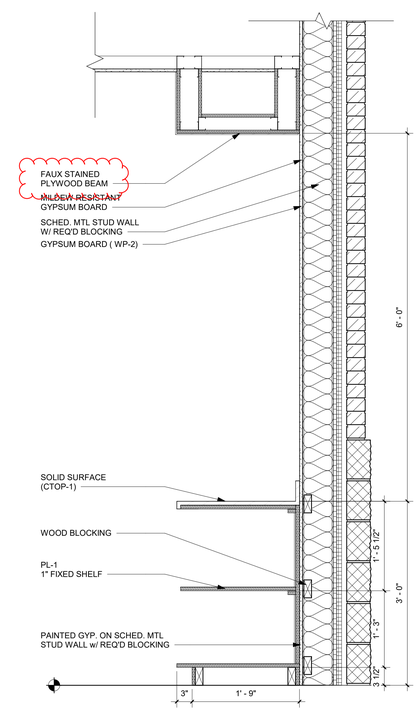
C5 WARDROBE CABINET
SCALE: 1" = 1'-0"



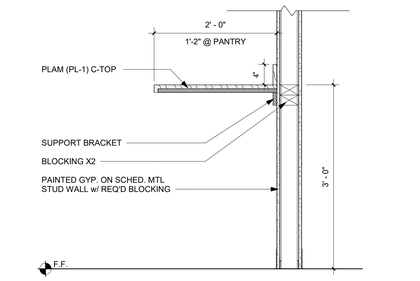
A1 DAYROOM CABINETS
SCALE: 1" = 1'-0"



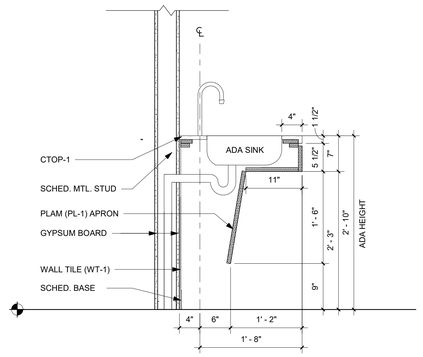
A2 DAYROOM CABINETS W/ 4 DRAWERS
SCALE: 1" = 1'-0"



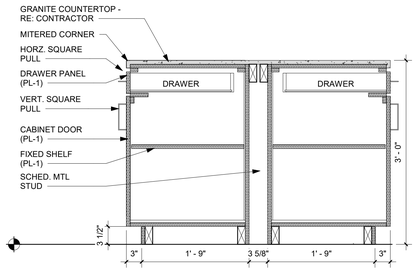
A3 DAYROOM SHELFS
SCALE: 1" = 1'-0"



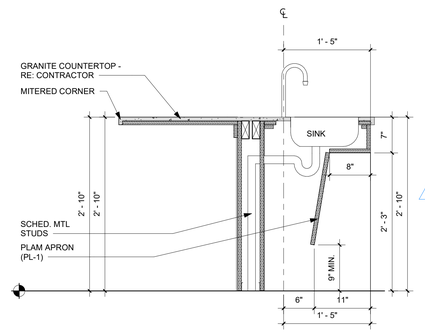
B4 TYP. WALL MOUNTED C-TOP
SCALE: 1" = 1'-0"



B5 SINK W/ ADA APRON
SCALE: 1" = 1'-0"

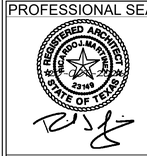


A4 KITCHEN ISLAND DOUBLE CABINETS
SCALE: 1" = 1'-0"



A5 KITCHEN ISLAND CABINETS/SINK
SCALE: 1" = 1'-0"

PROFESSIONAL SEAL



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8	ADDENDUM 4	4-NOV-2026

4

INTERIOR DETAILS -
MILLWORK DETAILS

A-551

FINISH SCHEDULE

	ROOM / SPACE	FLOOR						BASE			WALL							CEILING FNIISHES					
#	ROOM NAME	SEALED CONCRETE (SC-1)	FLOOR TILE - 1 (FT-1)	FLOOR TILE - 2 (FT-2) NOT USED	LUXURY VINYL TILE - 1 (LVT-1)	LUXURY VINYL TILE - 2 (LVT-2)	RUBBER FLOORING (RF-1)	VULCANIZED RUBBER COVER BASE	NOT USED	NOT USED PORCALAIN TILE COVE BASE	PAINT ON GYP BD. (FIELD COLOR PT-1)	PAINT ON GYP. BD (PT-2)	PAINT ON GYP. BD. (PT-3) NOT USED	WALL TILE-1	WALL TILE-2	WALL TILE-3 NOT USED	METAL PANEL-1 NOT USED	FRP-1	TEGULAR EDGED LAY-IN ACOUSTICAL PANEL (WHITE)	MILDEW RESISTANT TEGULAR EDGED LAY-IN ACOUSTICAL PANEL (WHITE)	PAINTED GYPSUM BOARD	EXPOSED CEILING	SCRUBBABLE MILDEW RESISTANT GYPSUM BOARD	HEIGHT	FINISH REMARKS
100	ENTRY				X			X			X	X							X					10' - 0"	
101	ADA RR		X								X			X	X					X			X	9' - 0"	CEMENT BOARD @ SHOWER CEILING
102	EXAM		X								X			X	X					X				9' - 0"	
103	RISER	X									X											X			
104	OFFICE				X			X			X	X							X					9' - 0"	
105	CONFERENCE				X			X			X	X							X					9' - 0"	
106	OFFICE				X			X			X	X							X					9' - 0"	
107	UTILITY				X			X			X	X								X				9' - 0"	
108	TV ROOM				X			X			X	X							X					9' - 0"	
109	DAYROOM				X	X		X			X	X									X			10' - 0"	
110	KITCHEN				X			X			X	X		X					X				X	10' - 0"	
111	PANTRY				X			X			X	X							X					9' - 0"	
112	PANTRY				X			X			X	X							X					9' - 0"	
113	PANTRY				X			X			X	X							X					9' - 0"	
114	STORAGE				X			X			X								X					9' - 0"	
115	EMS STORAGE				X			X			X									X				9' - 0"	
116	ADA RR		X								X			X	X					X			X	9' - 0"	CEMENT BOARD @ SHOWER CEILING
117	OFFICER DORM				X			X			X	X							X					9' - 0"	
118	OFFICER DORM				X			X			X	X							X					9' - 0"	
119	DORM				X			X			X	X							X		X			9' - 0"	GYP @ FURRDOWN
120	DORM				X			X			X	X							X		X			9' - 0"	GYP @ FURRDOWN
121	WATCH OFFICE				X			X			X	X							X					9' - 0"	
122	APP BAY VESTIBULE	X						X			X								X					9' - 0"	
123	DORM				X			X			X	X							X		X			9' - 0"	GYP @ FURRDOWN
124	DORM				X			X			X	X							X		X			9' - 0"	GYP @ FURRDOWN
125	RR		X								X			X	X					X			X	9' - 0"	CEMENT BOARD @ SHOWER CEILING
126	APP BAY VESTIBULE	X						X			X								X					9' - 0"	
127	RR		X								X			X	X					X			X	9' - 0"	CEMENT BOARD @ SHOWER CEILING
128	DORM				X			X			X	X							X		X			9' - 0"	GYP @ FURRDOWN
129	DORM				X			X			X	X							X		X			9' - 0"	GYP @ FURRDOWN
130	DORM				X			X			X	X							X		X			9' - 0"	GYP @ FURRDOWN
131	DORM				X			X			X	X							X		X			9' - 0"	GYP @ FURRDOWN
132	DORM				X			X			X	X							X		X			9' - 0"	GYP @ FURRDOWN
133	DORM				X			X			X	X							X		X			9' - 0"	GYP @ FURRDOWN
134	RR		X								X			X	X					X			X	9' - 0"	CEMENT BOARD @ SHOWER CEILING
135	HALLWAY				X			X			X	X							X					9' - 6"	
136	PPE	X						X			X	X										X		9' - 0"	
137	SCBA	X						X			X	X										X		9' - 0"	
138	FITNESS						X	X			X	X							X	X		X			
139	APP BAY	X									X								X			X			PAINTED STRUCTURE & MEP SYSTEMS TO MATCH ROOF PANEL FINISH
145	UTILITY	X						X			X											X			
146	OPEN PLATFORM	X						X			X											X			
147	IT/ELEC	X						X			X											X			
149	MECH PLATFORM	X						X			X											X			
152	PUMPHOUSE	X																				X			

GENERAL NOTES

NOTES

1. ALL FINISH MATERIAL COLORS/PATTERNS/STYLES TO BE DETERMINED BY ARCHITECT FROM MANUFACTURER'S FULL RANGE OF COLORS. ALL HOLLOW METAL DOOR FRAMES SHALL BE PAINTED.
2. RE: SPECIFICATIONS FOR ADDITIONAL FINISH INFORMATION & REQUIREMENTS.
3. ALL EXPOSED STEEL FRAMING (INTERIOR & EXTERIOR) SHALL BE PAINTED.
4. PROVIDE CORNER GUARDS AT ALL OUTSIDE GYP. BD. CORNERS
5. ALL CABINETS SHALL BE WOOD LAMINATED U.N.O.
6. ALL COUNTERTOPS SHALL BE SOLID SURFACE U.N.O.
7. RE: A-541 FOR CEILING FURRDOWNS / TRANSITIONS.
8. NO WALL BASE AT INTERIOR MASONRY WALLS
9. MEP AND STRUCTURAL SYSTEMS SHALL BE PAINTED IN ALL EXPOSED CEILING AREAS

INTERIOR FINISHES

FLOOR

LUXURY VINYL TILE 1 (LVT-1)
- MANUFACTURER: TARKETT
- COLLECTION: EVENT + WOOD
- MODEL: CRAFTED PLANK
- SIZE: 6" X 48"
- COLOR: PACIFIC WALNUT

LUXURY VINYL TILE 2 (LVT-2)
- MANUFACTURER: TARKETT
- COLLECTION: EVENT + WOOD
- MODEL: CRAFTED PLANK
- SIZE: 6" X 48"
- COLOR: ANTIQUE WALNUT

FLOOR TILE 1 (FT-1)
- MANUFACTURER: DALTILE
- COLLECTION: NATURAL STONE MARBLE
- MODEL: FIRST SNOW ELEGANCE SQUARE
- SIZE: 12" X 12"
- COLOR: M190

RUBBER FLOORING (RF-1)
- MANUFACTURER: FLEXCO
- COLLECTION: PRIME SPORTS
- MODEL: STARLIGHT PSF-204 RUBBER TILE
- SIZE: 3/8" GAUGE
- COLOR: BLACK W/ RED

SEALED CONCRETE (SC-1)
(RE: SPECS)

MILLWORK

PLASTIC LAMINATE 1 (PL-1)
- MANUFACTURER: WILSONART
- COLOR: 72, 60, 48
- NAME: FREMONT OAK

PLASTIC LAMINATE 2 (PL-2)
- MANUFACTURER: WILSONART
- COLOR: 169, 158, 139
- NAME: HARBOR HICKORY

STAINED PLYWOOD (SP-1)
- (RE: CONTRACTOR)
- CONTRACTOR FURNISHED, CONTRACTOR INSTALLED

COUNTER TOP 1 (CTOP-1)
- MANUFACTURER: WILSONART
- COLOR: 243, 248, 243
- NAME: DESIGNER WHITE D354SL

GRANITE COUNTER TOP (CTOP-2)
- (RE: CONTRACTOR)
- CONTRACTOR FURNISHED, CONTRACTOR INSTALLED

WALL

WALL PAINT 1 (WP-1) | FIELD PAINT
- MANUFACTURER: SHERWIN WILLIAMS
- COLOR: 231 / 216 / 189
- NAME: ROYCROFT VELLUM - SW 2833

WALL PAINT 2 (WP-2)
- MANUFACTURER: SHERWIN WILLIAMS
- COLOR: 193 / 164 / 133
- NAME: FARRO - SW 9103

WALL TILE 1 (WT-1)
- MANUFACTURER: DALTILE
- COLLECTION: FONTE
- MODEL: PIER WHITE
- SIZE: 12" X 24"
- COLOR: M012
- PATTERN: RECTANGLE

WALL TILE 2 (WT-2)
- MANUFACTURER: DALTILE
- TYPE: REMEDY
- MODEL: TONIC
- COLOR: RD26
- SIZE: 1" X 10"
- PATTERN: RECTANGLE

WALL BASE 1 (WB-1)
- MANUFACTURER: ROPPE / 700 SERIES
- COLOR: 52 / 35 / 32
- NAME: 110 BROWN

HM DOOR PAINT 1 (MTL-1)
- MANUFACTURER: SHERWIN WILLIAMS
- COLOR: 79 / 52 / 38
- NAME: FRENCH ROAST - SW 6069

FIBER REINFORCED PLASTIC (FRP-1)
- MANUFACTURER: USFRP
- COLOR: BRIGHT WHITE
- TYPE: CLASS-A (PEBBLED)

STAINLESS STEEL 1 (S STL-1)
REFER TO SPECS

CEILING

2 X 2 DROP CEILING MILDEW RESISTANT (DC-1)
- MANUFACTURER:
- COLLECTION:
- COLOR:

2 X 2 DROP CEILING (DC-2)
- MANUFACTURER:
- COLLECTION:
- COLOR:

GYPSUM CEILING (GC-1)
- MANUFACTURER:
- COLLECTION:
- COLOR: PT-1

MILDEW RESISTANT GYPSUM CEILING (GC-2)
- MANUFACTURER:
- COLLECTION:
- COLOR: PT-1

LEGEND

PROFESSIONAL SEAL

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DESIGN TEAM

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Civil
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7	ADDENDUM 3	28-OCT-2026
8	ADDENDUM 4	4-NOV-2026

ROOM FINISH SCHEDULE

A-621

GENERAL NOTES:

GENERAL

1. ALL WORK SHALL CONFORM TO THE MINIMUM STANDARDS OF THE FOLLOWING CODES. THE CODES LISTED SHALL INCLUDE ALL AMENDMENTS AND ADDENDA IN FORCE AT THE DATE OF THE CONTRACT DOCUMENTS.

   2018 EDITION OF THE INTERNATIONAL BUILDING CODE

2. WHERE CONFLICT EXISTS AMONG THE VARIOUS PARTS OF THE STRUCTURAL AND ARCHITECTURAL CONTRACT DOCUMENTS THE STRICTEST REQUIREMENTS SHALL GOVERN.
3. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS AT THE JOB SITE AND REPORT ANY DISCREPANCIES OR INCONSISTENCIES FROM ASSUMED CONDITIONS TO THE ARCHITECT PRIOR TO FABRICATION AND CONSTRUCTION.
4. DETAILS LABELED "TYPICAL DETAILS" ON THE DRAWINGS SHALL APPLY TO ALL SITUATIONS OCCURRING ON THE PROJECT THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY DETAILED. SUCH DETAILS APPLY WHETHER OR NOT THEY ARE CUT AT EACH LOCATION. QUESTIONS REGARDING APPLICABILITY OF TYPICAL DETAILS SHALL BE DETERMINED BY THE ENGINEER.
5. DO NOT SCALE THE DRAWINGS.
6. THE GENERAL CONTRACTOR SHALL COMPARE THE ARCHITECTURAL AND STRUCTURAL DRAWINGS AND REPORT ANY DISCREPANCY BETWEEN EACH SET OF DRAWINGS AND WITHIN EACH SET OF DRAWINGS TO THE ARCHITECT AND ENGINEER PRIOR TO THE FABRICATION AND INSTALLATION OF ANY STRUCTURAL MEMBERS.
7. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO OBTAIN ALL CONTRACT DOCUMENTS AND LATEST ADDENDA AND TO SUBMIT SUCH DOCUMENTS TO ALL SUBCONTRACTORS AND MATERIAL SUPPLIERS PRIOR TO THE SUBMITTAL OF SHOP DRAWINGS, FABRICATION OF ANY STRUCTURAL MEMBERS, AND ERECTION IN THE FIELD.
8. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT ARE NOT LIMITED TO, BRACING AND SHORING FOR LOADS DUE TO HYDROSTATIC, EARTH, WIND OR SEISMIC FORCES, AND CONSTRUCTION EQUIPMENT. OBSERVATION VISITS TO THE SITE BY THE ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS.
9. THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, PROCEDURES, TECHNIQUES, AND SEQUENCE.
10. IT IS THE DESIGN INTENT FOR ALL CONCRETE POURS TO HAPPEN IN SEQUENTIAL ORDER FROM FOUNDATIONS THROUGH ROOF. THE GENERAL CONTRACTOR SHALL DISCUSS WITH THE A/E TEAM THE FEASIBILITY OF NON-SEQUENTIAL POURING OF CONCRETE AND ITS IMPACT ON THE DESIGN INTENT AND ALLOW SUFFICIENT TIME FOR SUCH SCHEME TO BE INVESTIGATED OR REVIEWED.
11. PERIODIC SITE OBSERVATION BY THE ENGINEER IS SOLELY FOR THE PURPOSE OF DETERMINING IF THE WORK OF THE CONTRACTOR IS PROCEEDING IN GENERAL ACCORDANCE WITH THE STRUCTURAL CONTRACT DOCUMENTS. THIS LIMITED SITE OBSERVATION SHOULD NOT BE CONSTRUED AS EXHAUSTIVE OR CONTINUOUS TO CHECK THE QUALITY OF THE WORK, BUT RATHER PERIODIC IN AN EFFORT TO GUARD THE OWNER AGAINST DEFECTS OR DEFICIENCIES IN THE WORK OF THE CONTRACTOR.
12. NOTIFY THE STRUCTURAL ENGINEER WHEN DRAWINGS BY OTHERS SHOW OPENINGS, POCKETS, ETC., NOT SHOWN ON THE STRUCTURAL DRAWINGS, BUT WHICH ARE LOCATED IN THE STRUCTURAL MEMBERS.
13. DO NOT PENETRATE ANY STRUCTURAL ELEMENTS (BEAMS, COLUMNS, WALLS, SLABS, ETC.) WITHOUT PRIOR WRITTEN APPROVAL OF STRUCTURAL ENGINEER.
14. NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS. WHERE NO SPECIFIC DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT.
15. SEE THE ARCHITECTURAL DRAWINGS FOR THE FOLLOWING:

    SIZE AND LOCATION OF DOOR AND WINDOW OPENINGS,
    SIZE AND LOCATION OF INTERIOR AND EXTERIOR NON-LOAD BEARING PARTITIONS, SIZE AND LOCATION OF CONCRETE CURBS, FLOOR DRAINS, SLOPES, DEPRESSED AREAS, CHAMFERS, GROOVES, INSERTS, ETC., SIZE AND LOCATION OF FLOOR AND ROOF OPENINGS, FLOOR AND ROOF FINISHES,
    STAIR FRAMING AND DETAILS, DIMENSIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS, CEILING AND EXTERIOR WALL ASSEMBLIES.

16. SEE THE MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR THE FOLLOWING:

    PIPES, SLEEVES, HANGERS, TRENCHES, WALL, FLOOR AND ROOF OPENINGS, DUCT PENETRATIONS, ETC., EXCEPT AS SHOWN OR NOTED OTHERWISE ELECTRICAL CONDUIT RUNS, BOXES, OUTLETS IN WALLS AND SLABS, CONCRETE INSERTS FOR ELECTRICAL, MECHANICAL, OR PLUMBING FIXTURES, SIZE AND LOCATION OF MACHINE OR EQUIPMENT BASES AND ANCHOR BOLTS FOR MOUNTS.

DESIGN CRITERIA

1. DEAD LOAD MATERIALS ASSUMED IN THE DESIGN ARE SHOWN ON THE ARCHITECTURAL AND STRUCTURAL DRAWINGS.
2. AN ALLOWANCE OF 15 PSF HAS BEEN MADE FOR PARTITIONS AS A UNIFORMLY DISTRIBUTED LIVE LOAD, WHEREVER PARTITIONS ARE USED AND LOCATION SUBJECT TO CHANGE EXCLUDING PUBLIC LOBBIES, CORRIDORS, RESTROOMS, AND PLACES OF PUBLIC ASSEMBLY.
3. LIVE LOADS:

LOCATION	UNIFORM LOAD	CONCENTRATED LOAD
ROOF	20 PSF REDUCIBLE	300 LBS
MECHANICAL MEZZANINE	150 PSF REDUCIBLE ACTUAL EQUIP WEIGHT	
GROUND FLR, COMMON AREAS	100 PSF REDUCIBLE	
HANDRAILS AND GUARDRAILS	50 PLF OR 200 LBS APPLIED AT TOP RAIL IN ANY DIRECTION. 50 LBS IN ANY DIRECTION APPLIED AT INTERMEDIATE RAILS.	
GRAB BARS		250 LBS ANY DIRECTION

4. WIND LOADS

ULTIMATE WIND SPEED	120 MPH (3-SEC GUST)
NOMINAL WIND SPEED	93 MPH (3-SEC GUST)
RISK CATEGORY	IV
EXPOSURE CATEGORY	C
INTERNAL PRESSURE COEFF.	+/- 0.18
COMPONENTS & CLADDING	SEE DIAGRAM

5. SEISMIC LOADS

RISK CATEGORY	IV
SITE CLASS	B
IMPORTANCE FACTOR	1.25
MAPPED ACCELERATION PARAMETERS	
SS	0.051
S1	0.028
SPECTRAL RESPONSE COEFFICIENTS	
SDS	0.03
SD1	0.015
SEISMIC DESIGN CATEGORY	A

   SEISMIC DESIGN DOES NOT GOVERN BASED ON SECTION 11.7 OF ASCE 7-16

6. SNOW LOADS

GROUND SNOW LOAD	5 PSF
EXPOSURE FACTOR	0.9
IMPORTANCE FACTOR	1.0
THERMAL FACTORS	1.0

7. HANDRAILS, GUARDRAILS AND GRAB BARS (INCLUDING ATTACHMENT TO STRUCTURE) SHALL BE DESIGNED BY THE FABRICATOR FOR THE LOADS INDICATED IN THE REFERENCED BUILDING CODE. SHOP DRAWINGS SHALL BE SEALED BY A PROFESSIONAL ENGINEER IN THE STATE OF WHERE THE PROJECT IS LOCATED, REPRESENTING THE FABRICATOR.
8. STAIRS SHALL BE DESIGNED BY THE STEEL FABRICATOR FOR CODE REQUIRED LOADS. SHOP DRAWINGS SHALL BE SEALED BY A PROFESSIONAL ENGINEER IN THE STATE OF WHERE THE PROJECT IS LOCATED, REPRESENTING THE FABRICATOR.

FOUNDATION

1. THE FOUNDATION DESIGN IS BASED ON THE FOLLOWING GEOTECHNICAL REPORT (AND ANY ADDENDA) PREPARED BY THE FOLLOWING COMPANY:

   COMPANY TERRACON
   REPORT NO. 96255246
   DATED MARCH 16, 2026

   ALL RECOMMENDATIONS THEREIN THAT RELATE TO THE WORK SHOWN ON THESE DRAWINGS SHALL BE FOLLOWED.

2. THE FOUNDATION SYSTEM IS DESIGNED BASED ON THE FOLLOWING

   ALLOWABLE VALUES:

   VALUES ARE SHOWN FOR EMBEDMENT OF PIERS IN PALE BROWN TO TAN GLEN ROSE FORMATION LIMESTONE IN STRATUM 3

   MINIMUM EMBEDMENT INTO BEARING STRATUM = 4' OR 2 X SHAFT DIA (WHICHEVER IS GREATER)
   MINIMUM PIER LENGTH = 5' BELOW BOTTOM OF GRADE BEAM
   END BEARING = 30,000 PSF

   SKIN FRICTION (AFTER 4' EMBEDMENT) = 3000 PSF (COMPRESSION)
   SKIN FRICTION (AFTER 4' EMBEDMENT) = 3000 PSF (TENSION)

3. THE GENERAL CONTRACTOR SHALL NOTIFY THE GEOTECHNICAL ENGINEER OR OTHER AUTHORIZED INSPECTOR FOR REVIEW OF FOUNDATION BEARING SURFACE, INSPECTION OF FOUNDATION INSTALLATION, AND PLACEMENT OF REINFORCING STEEL. THE CONTRACTOR SHALL NOT PLACE CONCRETE WITHOUT INSPECTOR'S APPROVAL.
4. THE CONTRACTOR SHALL NOTIFY THE AUTHORIZED INSPECTOR 48 HOURS IN ADVANCE OF ANY MAJOR FOUNDATION POUR.
5. FORM EXPOSED FACES OF GRADE BEAMS.
6. GRADE BEAM BOTTOM STEEL SHALL BE CHAIRED AT 5 FOOT MAXIMUM CENTERS USING BEAM BOLSTERS PROVIDING 3 INCH BOTTOM COVER TO REINFORCING STEEL. BEAM BOLSTERS USED SHALL BE INTENDED FOR SUPPORT ON SOIL.
7. BOTTOM BARS OF GRADE BEAM SHALL BE SPLICED (WHERE REQUIRED) AT THE PIERS ONLY. TOP BARS SHALL BE SPLICED (WHERE REQUIRED) AT THE MIDSPAN OF THE GRADE BEAMS. LAP LENGTH SHALL BE 44 TIMES BAR DIAMETER UNLESS SPECIFIED OTHERWISE. PROVIDE CORNER BARS TO MATCH TOP AND BOTTOM STEEL.
8. ALL REINFORCING STEEL FOR SLABS SHALL BE CHAIRED WITH SLAB BOLSTERS FOR SUPPORT ON SOIL AT 4'-0" MAXIMUM CENTERS EACH WAY FOR REINFORCING FOR SLABS. DEPTH OF CHAIRS SHALL PROVIDE COVER TO REINFORCING AS NOTED ON PLANS/DETAILS.
9. SLAB ON GRADE CONSTRUCTION SHALL FOLLOW THE RECOMMENDATIONS OF GUIDE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION ACI 302.1R. PROVIDE (3) #3 X 4'-0" TOP AND BOTTOM AT ALL SLAB ON GRADE RE-ENTRANT CORNERS.
10. SUBGRADE PREPARATION SHALL CONFORM TO THE SOILS REPORT NOTED ABOVE. IF REPORT DOES NOT SPECIFY THE AMOUNT OF SELECT FILL, PROVIDE FILL AS REQUIRED ABOVE TO REDUCE PVR TO 1 INCH.
11. VAPOR RETARDER SHALL HAVE NO MORE THAN 0.01 PERMS AS TESTED BEFORE AND AFTER MANDATORY CONDITIONING (ASTM E 1745 SECTION 7.1 AND SUB-PARAGRAPHS 7.1.2-5), MEET OR EXCEED THE REQUIREMENTS OF ASTM E 1745 CLASS A AND BE NO LESS THAN 15 MILS THICK.
12. ALL VAPOR RETARDER SEAMS SHALL BE OVERLAPPED A MINIMUM OF 6 INCHES AND TAPED WITH MANUFACTURER'S TAPE. ALL PENETRATIONS, BLOCK-OUTS, AND OPENINGS SHALL BE SEALED USING A COMBINATION OF THE VAPOR RETARDER, MASTIC AND MANUFACTURER'S TAPE. DO NOT PENETRATE VAPOR RETARDER WITH FORMWORK STAKES. USE STEGO BEAST FORM STAKES OR EQUIVALENT WHERE REQUIRED.
13. REMOVE ALL VEGETATION, TREE ROOTS, ORGANIC SOIL, EXISTING FOUNDATIONS, PAVED AREAS, AND ANY UNDESIRABLE MATERIALS FROM THE CONSTRUCTION AREA.
14. SCARIFY THE SUBGRADE, ADD MOISTURE, OR DRY AS NECESSARY AND RECOMPACT TO 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D698 (STANDARD PROCTOR TEST).
15. THE SUBGRADE AREAS SHALL THEN BE PROOF-ROLLED WITH HEAVY EQUIPMENT. ANY SOILS DEFLECTING EXCESSIVELY UNDER MOVING LOADS SHALL BE UNDERCUT TO FIRM SOILS AND RECOMPACTED. THE MOISTURE CONTENT AT THE TIME OF COMPACTION OF SUBGRADE SOILS SHALL BE WITHIN –1 TO +3% OF THE OPTIMUM PROCTOR VALUE.
16. STRUCTURAL FILL BENEATH THE BUILDING AREA SHALL CONSIST OF SANDY CLAYS WITH A LIQUID LIMIT LESS THAN 40 AND A PLASTICITY INDEX BETWEEN 7 AND 20. STRUCTURAL FILL SHALL BE PLACED IN LOOSE LIFTS NOT EXCEEDING EIGHT INCHES IN THICKNESS AND COMPACTED TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D698. THE MOISTURE CONTENT OF THE FILL AT THE TIME OF COMPACTION SHALL BE WITHIN –1 TO +3%OF THE OPTIMUM VALUE.
17. PROVIDE MINIMUM ___ INCHES OF SELECT FILL UNDER BUILDING SLAB TO SEPARATE BUILDING SLAB FROM THE EXISTING GRADE. REMOVE EXISTING GRADE AS REQUIRED. CONTRACTOR SHALL RETAIN A TESTING LABORATORY FOR THE DETERMINATION OF SOIL COMPACTION AND CONCRETE TESTING. SUBMIT RESULTS TO ARCHITECT.
18. THE CONTRACTOR SHALL ENSURE THE SELECT FILL MATERIAL IS PROPERLY MIXED TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER AND TESTING LAB AND SHALL MAKE PROVISIONS FOR SOIL PULVERIZATION OR OTHER MIXING METHODS AS REQUIRED.
19. THE BEARING STRATUM OF EACH DRILLED PIER SHALL BE INSPECTED AND APPROVED BY THE GEOTECHNICAL ENGINEER OR OTHER AUTHORIZED INSPECTOR PRIOR TO POURING OF CONCRETE.
20. THE BOTTOM ELEVATION OF PIERS IS SHOWN ON THE DRAWINGS FOR BID PURPOSES. THE ACTUAL REQUIRED BEARING ELEVATION MAY VARY AS REQUIRED TO PROVIDE PROPER CAPACITY AS DETERMINED BY THE GEOTECHNICAL ENGINEER. FOOTINGS SHALL BE POURED IMMEDIATELY AFTER EXCAVATION.
21. PROVIDE AND INSTALL 1/8 INCH STEEL TEMPLATES TO ACCURATELY SET VERTICAL PIER REINFORCING STEEL, AND ANCHOR BOLTS FOR STEEL COLUMNS.
22. THE PRESENCE OF SAND SEAMS AND SLICKENSIDES IN THE LAYERS MAY CAUSE SLOUGHING DURING PIER EXCAVATION. THIS MAY REQUIRE THE USE OF TEMPORARY STEEL CASING.
23. REDUCING THE POTENTIAL FOR CAVING OF THE BELL CAN BE ACHIEVED BY LIMITING THE BELL TO SHAFT DIAMETER RATIO TO 2:1 OR TO INSTALL STRAIGHT SHAFT FOOTINGS.
24. THE GROUNDWATER LEVELS MAY FLUCTUATE SEASONALLY AND WITH CLIMATIC CHANGES. SEEPAGE OF GROUNDWATER INTO THE EXCAVATIONS IS POSSIBLE AND SEEPAGE FROM "PERCHED" WATER TRAPPED IN THE SOILS MAY ALSO OCCUR. THE CONTRACTOR SHALL MAKE PROVISIONS FOR DEWATERING THE FOOTING EXCAVATION IF GROUNDWATER IS ENCOUNTERED.
25. CONCRETE SHALL BE PLACED AS SOON AS POSSIBLE AFTER THE FOOTING EXCAVATIONS ARE COMPLETED TO REDUCE THE POTENTIAL FOR WATER SEEPAGE AND TO MINIMIZE THE DISTURBANCE TO THE BEARING AREA. IN NO CASE, SHOULD AN EXCAVATION BE LEFT OPEN OVERNIGHT.

CONCRETE

1. ALL ASPECTS OF WORK RELATING TO THE CONCRETE CONSTRUCTION SHALL CONFORM TO THE FOLLOWING CODES AND SPECIFICATIONS:

   CURRENT EDITION OF ACI 318 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
   CURRENT EDITION OF ACI 301 SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS
   CRSI MANUAL OF STANDARD PRACTICE

2. STRUCTURAL CONCRETE 28-DAY COMPRESSIVE STRENGTHS AND TYPES ARE AS FOLLOWS:

LOCATION	STRENGTH	TYPE	AGGREGATE SIZE
FOUNDATIONS	3000 PSI	NORMAL WT	1 1/2"
GRADE BEAMS	3000 PSI	NORMAL WT	1 1/2"
SLAB-ON-GRADE			
TYPICAL	3000 PSI	NORMAL WT	1 1/2"
APPARATUS BAY	4000 PSI	NORMAL WT	1 1/2"
METAL DECK SLAB	3500 PSI	NORMAL WT	3/8"

3. THERE SHALL BE NO HORIZONTAL COLD JOINT IN ANY CONCRETE POUR.
4. ADMIXTURES USED SHALL BE COMPATIBLE WITH FLOOR TREATMENTS. FINISH APPLICATOR SHALL APPROVE ADMIXTURES AND CURING COMPOUNDS PRIOR TO USE.
5. CONCRETE FOR SLAB-ON-GRADE SHALL HAVE A MAXIMUM WATER-CEMENT RATIO OF 0.45. ALL OTHER CONCRETE SHALL HAVE A MAXIMUM WATER-CEMENT RATIO OF 0.50. ADJUST CONCRETE STRENGTH BEYOND MINIMUM SPECIFIED ABOVE TO MAINTAIN MAXIMUM WATER-CEMENT RATIO.
6. CONCRETE FOR SLAB-ON-GRADE AND METAL DECK SHALL BE PROPORTIONED FOR A MAXIMUM ALLOWABLE UNIT SHRINKAGE OF 0.04% (400 MICROSTATIONS) AT 28 DAYS OF DRYING. LENGTH CHANGE SHALL BE MEASURED IN ACCORDANCE WITH ASTM C157.
7. FLY ASH CONFORMING TO ASTM C618, MAY BE USED UNLESS NOTED OTHERWISE. THE MAXIMUM AMOUNT OF FLY ASH SHALL BE 25% OF THE TOTAL CEMENTITIOUS MATERIAL BY WEIGHT.
8. AT POLISHED OR STAINED CONCRETE, THE FLY ASH ALLOWANCE IN NOTE 7 DOES NOT APPLY. NO FLY ASH IS PERMITTED IN THESE MIXES. ADDITIONALLY, NO AIR ENTRAINMENT IS ALLOWED EITHER. MAX WATER CEMENT RATIO SHALL BE 0.45. WET CURING IS REQUIRED AT POLISHED CONCRETE. USE ONE SOURCE FOR CEMENT, AGGREGATES, AND POZZOLANS THROUGHOUT THE PROJECT. DO NOT USE CALCIUM CHLORIDE-BASED ADMIXTURES. NON-CHLORIDE ADMIXTURES MAY BE USED. GENERAL CONTRACTOR SHALL PROTECT AREAS TO RECEIVE CONCRETE FINISH AT ALL TIMES DURING CONSTRUCTION TO PREVENT OILS, DIRT, METAL, EXCESSIVE WATER, AND OTHER POTENTIALLY DAMAGING MATERIALS FROM AFFECTING THE FINISHED CONCRETE SURFACE.
9. CONCRETE FORMS SHALL BE LAID OUT AND CONSTRUCTED TO PROVIDE THE SPECIFIED CAMBERS INDICATED ON THE STRUCTURAL DRAWINGS.
10. CONCRETE FOR SLABS TO RECEIVE A HARD-TROWELED FINISH SHALL NOT CONTAIN AIR-ENTRAINING ADMIXTURES OR HAVE A TOTAL AIR CONTENT GREATER THAN 3 PERCENT.
11. SUBMIT SHOP DRAWINGS TO ARCHITECT AND ENGINEER INDICATING LOCATIONS OF CONCRETE JOINTS TO REVIEW PRIOR TO PLACING CONCRETE. PLACE JOINTS AT LOCATIONS TO MINIMIZE THE EFFECTS OF SHRINKAGE AS WELL AS BEING PLACED AT POINTS OF LOW STRESS.
12. ROUGHEN CONCRETE SURFACES TO 1/4 INCH AMPLITUDE WHERE MASONRY WALLS INTERSECT CONCRETE OR WHERE NEW CONCRETE INTERFACES WITH EXISTING CONCRETE.
13. MECHANICAL PIPES AND ELECTRICAL CONDUITS WHICH PASS THROUGH SLAB-ON-GRADE, CONCRETE ON METAL DECK, FRAMED CONCRETE FLOORS, AND WALLS DO NOT REQUIRE SLEEVES UNLESS NOTED OTHERWISE ON THE PROJECT SPECIFICATIONS, MECHANICAL OR ELECTRICAL DRAWINGS. IF SLEEVES ARE REQUIRED, INSTALL SLEEVES BEFORE PLACING CONCRETE. DO NOT CUT ANY REINFORCING WHICH MAY INTERFERE WITH SLEEVE PLACEMENT. CORING OPENINGS IN CONCRETE IS NOT PERMITTED. NOTIFY THE ARCHITECT AND ENGINEER IN ADVANCE OF CONDITIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS. NO PIPES OR ELECTRICAL CONDUIT SHALL PASS THROUGH CONCRETE BEAMS OR COLUMNS UNLESS SPECIFICALLY DETAILED.
14. WITH THE EXCEPTION OF SLABS ON GRADE AND CONCRETE ON METAL DECK, THE OUTSIDE DIAMETER OF MECHANICAL PIPES AND/OR ELECTRICAL CONDUITS (OTHER THAN THOSE PASSING THROUGH) SHALL NOT EXCEED 1/3 OF THE SLAB THICKNESS AND SHALL BE CENTERED BETWEEN THE TOP AND BOTTOM REINFORCING UNLESS SPECIFICALLY DETAILED OTHERWISE. CONCENTRATIONS OF MECHANICAL PIPES AND/OR ELECTRICAL CONDUITS SHALL BE AVOIDED EXCEPT WHERE DETAILED OPENINGS ARE PROVIDED. CONDUIT AND PIPE SHALL BE SPACED AT 3" OR 3 DIAMETERS ON CENTER, WHICHEVER IS GREATER.
15. FOR SLABS ON GRADE AND METAL DECK SLABS NO PIPES OR CONDUITS SHALL BE PLACED WITHIN THE INDICATED SLAB THICKNESS AND SHALL BE LOCATED BELOW THE SLAB UNLESS SPECIFICALLY DETAILED OTHERWISE.
16. THE DESIGN, CONSTRUCTION, AND SAFETY OF ALL FORMWORK SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. ALL FORMS, SHORES, BACKSHORES, FALSEWORK, BRACING, AND OTHER TEMPORARY SUPPORTS SHALL BE ENGINEERED TO SUPPORT ALL LOADS IMPOSED INCLUDING THE WET WEIGHT OF CONCRETE, CONSTRUCTION EQUIPMENT, LIVE LOADS, LATERAL LOADS DUE TO WIND AND WET CONCRETE IMBALANCE. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR DETERMINING WHEN TEMPORARY SUPPORTS, SHORES, BACKSHORES, AND OTHER BRACING MAY BE SAFELY REMOVED.

REINFORCING STEEL

1. ALL ASPECTS OF WORK RELATING TO THE REINFORCING STEEL SHALL CONFORM TO THE FOLLOWING CODES AND SPECIFICATIONS:

   CURRENT EDITION OF ACI 318 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
   CRSI MANUAL OF STANDARD PRACTICE

2. DEFORMED BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A615 GRADE 60.
3. WELDED WIRE FABRIC SHALL CONFORM TO THE REQUIREMENTS OF ASTM A185, YIELD STRENGTH 65,000 PSI. WELDED DEFORMED WIRE FABRIC FOR ASTM A497, YIELD STRENGTH 70,000 PSI. ALL WELDED WIRE FABRIC SHALL BE FURNISHED IN FLAT SHEETS ONLY. WHEREVER WELDED WIRE FABRIC IS SPECIFIED AS REINFORCEMENT, IT SHALL BE CONTINUOUS ACROSS THE ENTIRE CONCRETE SURFACE AND NOT INTERRUPTED BY BEAMS OR GIRDERS AND PROPERLY LAPPED ONE CROSS WIRE SPACING PLUS 2 INCHES.
4. MINIMUM LAP OF WELDED WIRE FABRIC SHALL BE 6 INCHES OR ONE FULL MESH AND ONE HALF, WHICHEVER IS GREATER.
5. WELDING OF REINFORCING IS PERMITTED ONLY WHERE SHOWN ON THE DRAWINGS OR WHEN APPROVED BY THE ENGINEER OF RECORD. WELDING OF REINFORCING BARS SHALL BE WITH LOW HYDROGEN ELECTRODES IN ACCORDANCE WITH THE RECOMMENDED PRACTICES OF AWS D1.4.
6. ALL REINFORCING BAR BENDS SHALL BE MADE COLD.
7. REINFORCING DOWELS BETWEEN FOOTINGS AND WALLS OR COLUMNS SHALL BE THE SAME NUMBER, SIZE, SPACING, AND GRADE AS THE SPECIFIED VERTICAL REINFORCING, UNO.
8. IN ADDITION TO ALL OF THE REINFORCING STEEL INDICATED ON THE DRAWINGS, THE CONTRACTOR SHALL PROVIDE FOR AN ALLOWANCE OF A NET ONE TON OF REINFORCING BARS TO BE FURNISHED, FABRICATED, AND PLACED DURING THE PROGRESSION OF WORK AS MAY BE DIRECTED BY THE ENGINEER OF RECORD. 7
9. CLEAR COVERAGE OF CONCRETE OVER REINFORCING BARS SHALL BE AS FOLLOWS:

LOCATION OF CONCRETE	MINIMUM COVER
CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3"
CONCRETE EXPOSED TO EARTH OR WEATHER	
#6 THROUGH #18 BAR	2"
#5 BAR AND SMALLER	1 1/2"
CONCRETE NOT EXPOSED TO EARTH OR WEATHER OR IN CONTACT WITH GROUND	
SLABS, WALLS, JOISTS	3/4"
BEAMS, COLUMNS (INCLUDING TIES)	1 1/2"
SLAB ON GRADE	SEE DETAILS
PRESTRESSED CONCRETE	SEE IBC 1907.7.3

NON-SHRINK GROUT FOR BASE PLATES AND BEARING PLATES

1. GROUT FOR BASE PLATES AND BEARING PLATES SHALL BE A NON-METALLIC, SHRINKAGE RESISTANT, PREMIXED, NON-CORROSIVE, NON-STAINING PRODUCT CONTAINING PORTLAND CEMENT, SILICA SANDS, SHRINKAGE COMPENSATING AGENTS, AND FLUIDITY IMPROVING COMPOUNDS.
2. GROUT SHALL CONFORM TO CORPS OF ENGINEERS SPECIFICATION FOR NON-SHRINK GROUT, CE-CRD-C621. TWENTY-EIGHT DAY COMPRESSIVE STRENGTH AS DETERMINED BY GROUT CUBE TESTS, SHALL BE 5,000 PSI. MINIMUM THICKNESS OF GROUT UNDER ALL BASE PLATES AND BEARING PLATES SHALL BE 1 INCH, UNLESS SPECIFIED OTHERWISE ON THE DRAWINGS.
3. GROUT SHALL BE PLACED IN A FLUID FLOWABLE STATE UNDER BASE PLATES THAT HAVE A FORM BUILT AROUND THEM FOR GROUT CONFINEMENT. GROUT SHOULD BE CURED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

COLD-FORMED STEEL

1. ALL ASPECTS OF WORK RELATING TO COLD-FORMED (LIGHT GAGE) STEEL CONSTRUCTION SHALL CONFORM TO THE FOLLOWING CODES AND SPECIFICATIONS:

   CURRENT EDITION OF THE AISI SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS, INCLUDING ANY SUPPLEMENTS.

2. COLD-FORMED STEEL MEMBERS SHALL BE OF THE SIZE, GAUGE, AND SPACING SHOWN ON THE DRAWINGS. FLANGE WIDTHS SHALL BE 1 5/8" WITH 1/2" RETURNS UNLESS SPECIFIED OTHERWISE.
3. ALL FRAMING MEMBERS SHALL BE MANUFACTURED FROM CORROSION RESISTANT STEEL CONFORMING TO ASTM A653 (G60). 25 GAUGE THROUGH 18 GAUGE MEMBERS SHALL BE FORMED FROM STEEL HAVING A MINIMUM 33 KSI YIELD POINT PER ASTM A653 GRADE 33. 16 GAUGE THROUGH 12 GAUGE MEMBERS SHALL BE FORMED FROM STEEL HAVING A MINIMUM 50 KSI YIELD POINT PER ASTM A446 GRADE 50.
4. SPLICES IN FRAMING COMPONENTS EXCEPT RUNNERS AND TRACKS SHALL NOT BE PERMITTED.
5. AT LOAD BEARING WALLS SUPPORTING FLOOR OR ROOF JOISTS, LOCATE STUDS DIRECTLY UNDER THE JOISTS OR PROVIDE LOAD DISTRIBUTING MEMBER BETWEEN STUDS TO SUPPORT JOISTS.
6. FASTENING OF COMPONENTS SHALL BE WITH SELF-DRILLING SCREWS OR WELDING. WELDING SHALL BE DONE USING FILLET, PLUG, BUTT OR SEAM WELDS WITH A MINIMUM 3/32 IN. AWS TYPE 6013 WELDING RODS. WELD AREAS SHOULD BE RE-TOUCHED WITH THE APPROPRIATE PAINT OR COLD-GALVANIZING TO RETAIN CORROSION RESISTANCE. ALL WORK SHALL BE COMPLETED BY QUALIFIED WELDERS IN ACCORDANCE WITH AWS D1.3 STANDARDS.
7. PROVIDE HORIZONTAL BRIDGING IN ALL STUD SYSTEMS AT 4'-0" O.C. VERTICALLY FOR AXIALLY LOADED STUDS AND AT 6'-0" O.C. FOR NON-LOAD BEARING STUDS. WELD AT EACH STUD INTERSECTION.
8. SCREWS SHALL BE SELF-DRILLING AND OF TYPE S-12, ASTM C-954, EXCEPT THAT TYPE S, ASTM C-1002 MAY BE USED FOR 20 GAUGE OR 22 GAUGE MATERIAL ONLY. SCREWS SHALL BE 3/8" TO 1/2" LONGER THAT TOTAL MATERIAL THICKNESS.
9. SHEATHING MATERIALS FOR SHEAR WALLS MUST EXTEND AND BE CONNECTED TO THE TOP AND BOTTOM TRACKS.
10. STEEL STRUCTURAL STUD TRACK OF THE SAME GAUGE AS THE STUDS SHALL BE USED AT THE TOP AND BOTTOM OF ALL STUD WALLS UNLESS NOTED OTHERWISE. STUDS SHALL SIT FLAT AGAINST THE WEB OF THE STUD TRACK AND BE ATTACHED WITH 1-#8 X 5/8" SCREW EACH SIDE OF EACH STUD.
11. WEB PUNCH-OUTS SHOULD BE COORDINATED WITH BRACING AND UTILITY REQUIREMENTS. WEB PUNCH-OUTS OR WEB OPENINGS SHALL BE LOCATED A MINIMUM OF 6" OR MEMBER DEPTH, WHICHEVER IS GREATER, FROM STUD OR JOIST BEARING POINTS.
12. ALL FRAMING COMPONENTS SHALL BE CUT SQUARELY FOR ATTACHMENT TO PERPENDICULAR MEMBERS, OR AS REQUIRED FOR AN ANGULAR FIT AGAINST ABUTTING MEMBERS.
13. FOR NON-LOAD BEARING STUDS, CONNECTIONS SHALL ACCOUNT FOR THE DEFLECTION OF THE STRUCTURAL MEMBERS TO WHICH THE STUDS ARE ATTACHED (1" MINIMUM). PROVIDE SLIDING CLIPS AND/OR SLIP TRACKS.
14. JACK STUDS OR CRIPPLES SHALL BE INSTALLED BELOW WINDOW SILLS, ABOVE WINDOW AND DOOR HEADS, AND ELSEWHERE TO FURNISH SUPPORT, AND SHALL BE SECURELY ATTACHED TO CONNECTING MEMBERS.
15. PRIOR TO FABRICATION, THE CONTRACTOR SHALL SUBMIT ERECTION DRAWINGS TO THE ARCHITECT AND ENGINEER OF RECORD FOR REVIEW AND APPROVAL.
16. TRACK SHALL BE SECURELY ANCHORED TO THE SUPPORTING STRUCTURE. ABUTTING PIECES OF TRACK SHALL BE SECURELY SPLICED TOGETHER.
17. THE DESIGN OF ALL COLD-FORMED STEEL SHALL BE PERFORMED BY THE COLD-FORMED METAL CONTRACTOR. THE DESIGN SHALL INCLUDE MEMBER SIZES AND CONNECTION. THE DESIGN SHALL CONSIDER MEMBER DIMENSIONS NOTED ON THE DRAWINGS. THE COLD-FORMED CONTRACTOR SHALL SUPPLY DRAWINGS SEALED BY AN ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED. THE OUT-OF-PLANE DEFLECTION OF STUDS SHALL BE LIMITED TO H/600 (H = UNSUPPORTED HEIGHT OF STUDS) IF USED FOR MASONRY OR STONE BACKUP, H/720 FOR ADHERED VENEER, FOR OTHER CONDITIONS THE DEFLECTION SHALL BE LIMITED TO H/360.
18. COLD-FORMED STEEL FRAMING SHALL HAVE A MINIMUM BASE METAL THICKNESS OF 0.43 (18 GA.) IF USED FOR MASONRY OR STONE BACKUP.
19. DO NOT HANG STUD FRAMING FROM METAL DECK ROOF. FRAMING SHALL BE SUPPORTED BETWEEN ROOF FRAMING MEMBERS.

PRE-ENGINEERED METAL BUILDING (PEMB)

1. ALL ROOF COMPONENTS INCLUDING PURLINS AND BUILDING FRAME SHALL BE DESIGNED BY METAL FRAME SUPPLIER. ALL OTHER STEEL MEMBERS SHALL BE DESIGNED BY THE METAL BUILDING SUPPLIER.
2. ALL DESIGNS SHALL CONFORM TO AISC, AISI AND MBMA STANDARDS (LATEST EDITION).
3. ALL ROOF DECK SYSTEMS SHALL CONFORM TO THE UL WIND-UPLIFT RATING OF CLASS 90.
4. ALL BUILDING FRAMES SHALL BE DESIGNED FOR A MAXIMUM HORIZONTAL DEFLECTION OF H/240 UNDER LATERAL LOADS (H = HEIGHT OF BUILDING FRAME).
5. GIRTS SUPPORTING BRICK/CMU SHALL BE DESIGNED FOR A MAXIMUM HORIZONTAL DEFLECTION OF L/600 (L = SPAN OF GIRT). MEMBERS SUPPORTING BRICK/CMU SHALL HAVE A VERTICAL DEFLECTION OF L/600.
6. ALL PURLINS SHALL BE DESIGNED FOR DEAD LOADS SHOWN ON ARCHITECTURAL DRAWINGS, INCLUDING MISCELLANEOUS FRAMING TO CARRY SUPERIMPOSED DEAD LOADS.
7. BUILDING FRAMES SHALL BE DESIGNED FOR THE LATERAL STABILITY OF THE BUILDING IN BOTH DIRECTIONS. EXAMINE THE CONSTRUCTION DOCUMENTS TO DETERMINE THE PREFERRED LOCATIONS OF LATERAL FRAMES. NO X-BRACES OR ROD BRACES ARE ALLOWED IN THE VERTICAL PLANE AT ANY LOCATIONS IN THESE DOCUMENTS.
8. FOUNDATION DESIGN IS BASED ON THE ROOF LOADINGS SPECIFIED BY THE MBMA AND ANY OTHER ADDITIONAL LOADS IMPOSED BY THE BUILDING USE. SUBMIT REACTIONS FROM METAL BUILDING FRAME (AT LEAST 6 WEEKS PRIOR TO THE POURING OF THE FOUNDATION) TO CONFIRM THE DESIGN OF FOOTINGS. GENERAL CONTRACTOR SHALL CONFIRM FOOTING SIZES WITH THE STRUCTURAL ENGINEER AFTER ACTUAL REACTIONS ARE RECEIVED FROM THE METAL BUILDING FRAME SUPPLIER. MODIFICATIONS TO FOUNDATION AND/OR DETAILS RESULTING FROM SUCH REVIEW SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND HIS METAL BUILDING SUPPLIERS. NO ADDITIONAL COST PROPOSALS WILL BE ENTERTAINED.
9. SUBMIT SHOP DRAWINGS FOR BUILDING METAL BUILDING FRAMES, INCLUDING ALL CONNECTIONS. ALL SHOP DRAWINGS SHALL BE SEALED AND SIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED.
10. ALL WELDING SHALL BE IN CONFORMANCE WITH THE REQUIREMENTS OF AWS.
11. THE FOUNDATION HAS BEEN DESIGNED ASSUMING THAT RIGID FRAMES ARE PINNED AT THE BASE. THE FOOTINGS HAVE NOT BEEN DESIGNED FOR MOMENTS DUE TO FIXITY AT THE BASE.
12. THE METAL BUILDING MANUFACTURER SHALL TAKE INTO ACCOUNT LATERAL LOADS FOR BRACING PERIMETER/INTERIOR WALLS. THE TOP OF ALL WALLS SHALL BE BRACED BY THE METAL BUILDING STRUCTURE. PROVIDE STEEL MEMBERS AS REQUIRED.
13. THE METAL BUILDING MANUFACTURER SHALL REVIEW ALL PLANS (ARCHITECTURAL, STRUCTURAL, MEP, ETC.) DETAILS AND SPECIFICATIONS AND MAKE PROVISIONS FOR THE SUPPORT OF ALL ELEMENTS DESIGNATED TO BE SUPPORTED OR BRACED BY THE STRUCTURE, INCLUDING ANY HANGING ELEMENTS FROM THE ROOF, PIPING, DUCTS, CLADDING/WALL SUPPORT, MEP ELEMENTS SUPPORT, ETC. SUCH WORK IS NOT IN MSE'S SCOPE OF WORK. ANY SUCH MISSING ELEMENTS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND HIS METAL FRAMING SUPPLIER.
14. MATRIX STRUCTURAL ENGINEER'S SCOPE OF WORK IS STRICTLY FOR FOUNDATION DESIGN ONLY. ANY FRAMING SHOWN ON THESE PLANS ARE SCHEMATIC IN NATURE AND IS PROVIDED FOR THE CONVENIENCE OF THE METAL BUILDING MANUFACTURER. IF ADDITIONAL MOMENT FRAMES AND/OR BRACED BAYS ARE REQUIRED, PLEASE COORDINATE SUCH LOCATIONS WITH ARCHITECT. ANY WORK RELATED TO STRUCTURAL FRAMING (INCLUDING MEZZANINES, SECOND FLOOR, STAIRS, HANDRAILS, ETC., LATERAL BRACING OF WALLS AND OTHER COMPONENTS) IS IN THE SCOPE OF THE GENERAL CONTRACTOR AND THE METAL BUILDING SUPPLIER.
15. ALL ANCHOR BOLTS SHALL BE SUPPLIED BY THE BUILDING MANUFACTURER. THE MINIMUM EMBEDMENT DEPTH INTO CONCRETE SHALL BE 1' - 6" U.N.O.
16. PROVIDE (2) - #5 (WITH 4' - 0" LEGS) V SHAPED HAIRPIN BARS AT THE BASE OF ALL EXTERIOR COLUMNS, U.N.O.
17. ALL EXPOSED STEEL MEMBERS (INCLUDING CONNECTIONS AND ASSOCIATED ACCESSORIES) SHALL BE GALVANIZED.
18. NO EXCLUSIONS FROM PROVIDING A TOTAL AND COMPLETE BUILDING FRAMING PACKAGE WILL BE ENTERTAINED.

CONCRETE MASONRY

1. ALL MASONRY MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE RECOMMENDATIONS OF THE NATIONAL CONCRETE MASONRY ASSOCIATION AND THE FOLLOWING CODES AND SPECIFICATIONS:

   ACI 530-11 BUILDING CODE REQUIREMENTS AND SPECIFICATION FOR MASONRY STRUCTURES

2. ALL CONCRETE MASONRY UNITS (CMU) SHALL CONFORM TO ASTM C90. UNLESS SPECIFIED OTHERWISE, CMU SHALL BE LIGHTWEIGHT (LESS THAN 110 PCF, OVEN DRY UNIT WEIGHT). THE MINIMUM COMPRESSIVE STRENGTH OF MASONRY (F'M) SHALL BE 2000 PSI AS DETERMINED BY THE UNIT STRENGTH METHOD OR BY THE PRISM TEST METHOD.
3. UNLESS SPECIFIED OTHERWISE, ALL MORTARS AND THE MATERIALS THEREIN SHALL CONFORM TO THE STANDARD SPECIFICATIONS OF MASONRY UNITS, ASTM C270, TYPE S EXCEPT FOR MASONRY IN CONTACT WITH THE EARTH SHALL BE TYPE M.
4. ALL GROUT SHALL BE FINE GROUT CONTAINING SAND, PORTLAND CEMENT, AND LIME (OPTIONAL) FOR GROUT SPACES LESS THAN 2 INCHES IN ANY HORIZONTAL DIRECTION, UNLESS SPECIFIED OTHERWISE. GROUT SHALL ATTAIN A MINIMUM 28 DAYS COMPRESSIVE STRENGTH OF 2500 PSI TESTED ACCORDING TO ASTM C476.
5. CONTROL JOINTS SHALL BE LOCATED PER ARCHITECTURAL DRAWINGS AND SPECIFICATIONS OR AT A MAXIMUM SPACING OF 24 FEET ON CENTERS OR 3 TIMES THE WALL HEIGHT, WHICHEVER IS LESS. ALL MASONRY UNITS SHALL BE PLACED IN RUNNING BOND.
6. PROVIDE HORIZONTAL JOINT REINFORCING (TRUSS OR LADDER TYPE, 9 GAUGE) AT 16 INCHES ON CENTER FOR ALL CMU WALLS LAID IN A RUNNING BOND AND AT 8 INCHES ON CENTER FOR ALL CMU WALL NOT LAID IN A RUNNING BOND. HORIZONTAL JOINT REINFORCING SHALL BE LAPPED A MINIMUM OF 6". REINFORCEMENT SHALL CONFORM TO ASTM A951 AND SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM A153.
7. ALL HORIZONTAL REINFORCING STEEL IN BOND BEAMS AND LINTEL BLOCK UNITS SHALL BE CONTINUOUS AND UNITS SHALL BE SOLID GROUTED. PROVIDE 48 TIMES BAR DIAMETER LAP FOR HORIZONTAL REINFORCING IN BOND BEAMS. NO SPLICES SHALL BE PROVIDED FOR HORIZONTAL REINFORCING IN BLOCK LINTELS.
8. GROUT CELLS SOLID WHERE VERTICAL BARS ARE SHOWN ON THE DRAWINGS. VERTICAL BARS SHALL EXTEND FROM BOTTOM TO THE TOP OF THE WALL. AT EACH VERTICAL BAR, PROVIDE MATCHING BAR SIZE DOWEL INTO FOUNDATIONS. PROVIDE MINIMUM 48 TIMES BAR DIAMETER SPLICE FOR VERTICAL BARS WHERE REQUIRED AND/OR SHOWN ON THE DRAWINGS UNLESS NOTED OTHERWISE.
9. GROUT LIFTS SHALL TERMINATE TO FORM A GROUT KEY A MINIMUM OF 1 1/2" BELOW MORTAR JOINTS WHEN SUBSEQUENT GROUT LIFTS WILL HAPPEN AFTER PREVIOUS GROUT LIFTS HAVE SET. GROUT KEYS IN BOND BEAMS OR LINTELS SHALL NOT BE PERMITTED.
10. MAXIMUM GROUT POUR HEIGHT SHALL BE 5' - 4" (8 BLOCK COURSES).
11. PROVIDE A BOND BEAM AT THE TOP OF ALL CMU WALLS AND REINFORCE WITH (2) - #5 CONTINUOUS UNLESS NOTED OTHERWISE. UNLESS NOTED OTHERWISE, ALL EXTERIOR BOND BEAMS SHALL BE REINFORCED WITH (2) - #5 CONTINUOUS AND ALL INTERIOR BOND BEAMS SHALL BE REINFORCED WITH (2) - #4 CONTINUOUS. BOND BEAM REINFORCING SHALL NOT BE CONTINUED THROUGH CONTROL JOINT LOCATIONS.
12. PROVIDE BOND BEAMS AT A MAXIMUM OF 48 INCHES ON CENTER IN ALL EXTERIOR AND LOAD BEARING CMU WALLS NOT LAID IN A RUNNING BOND (E.G. STACK BOND) REINFORCED WITH (2) - #5 CONTINUOUS UNLESS NOTED OTHERWISE BOND BEAM REINFORCEMENT SHALL BE DISCONTINUED AT CONTROL JOINTS.
13. AT THE END OF EACH DAY AND DURING INCLEMENT WEATHER, ALL UNFINISHED MASONRY WORK SHALL BE COVERED AT THE TOP OF WALL AND EXTEND DOWN ALL SIDES A MINIMUM OF 24".
14. SEE TYPICAL DETAILS FOR INTERIOR WALL HEIGHT, BRACING AND REINFORCING REQUIREMENTS.
15. MECHANICAL PIPES AND ELECTRICAL CONDUITS WHICH PASS THROUGH MASONRY WALLS DO NOT REQUIRE SLEEVES, UNLESS NOTED OTHERWISE IN THE PROJECT SPECIFICATIONS, MECHANICAL OR ELECTRICAL DRAWINGS. IF SLEEVES ARE REQUIRED, INSTALL SLEEVES BEFORE GROUTING. DO NOT CUT ANY REINFORCING WHICH MAY INTERFERE WITH SLEEVE PLACEMENT. CORING OPENINGS IN GROUTED MASONRY IS NOT PERMITTED. NOTIFY THE STRUCTURAL ENGINEER IN ADVANCE OF CONDITIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS. NO PIPES OR ELECTRICAL CONDUIT SHALL PASS THROUGH MASONRY LINTELS UNLESS SPECIFICALLY DETAILED.
16. ALL REINFORCED MASONRY WALLS WITH OPENINGS UP TO THREE (3) FEET WIDE, SHALL HAVE ONE VERTICAL BAR MINIMUM AT EACH SIDE OF OPENINGS. FOR OPENINGS LARGER THAN 3 FEET WIDE, PROVIDE TWO (2) VERTICAL BARS AT EACH SIDE OF OPENINGS UNLESS NOTED OTHERWISE. REINFORCING AT EDGES OF OPENING SHALL MATCH TYPICAL VERTICAL WALL REINFORCING (UNLESS NOTED OTHERWISE) AND SHALL EXTEND TO THE TOP OF WALL.
17. ALL REINFORCED MASONRY WALL CORNERS AND INTERSECTIONS SHALL HAVE ONE VERTICAL BAR (MINIMUM) IN GROUTED CELL. REINFORCING SHALL MATCH TYPICAL WALL VERTICAL REINFORCEMENT.
18. PROVIDE ONE VERTICAL BAR (MINIMUM) IN THE FIRST CELL EACH SIDE OF CONTROL JOINTS. REINFORCING SHALL MATCH TYPICAL VERTICAL WALL REINFORCING (UNLESS NOTED OTHERWISE) AND SHALL EXTEND TO THE TOP OF WALL.

SUBMITTALS

1. THE GENERAL CONTRACTOR SHALL SUBMIT FOR ENGINEER REVIEW SHOP DRAWINGS FOR THE FOLLOWING ITEMS:

   CONCRETE MIX DESIGNS AND ACCESSORIES
   REINFORCING STEEL
   METAL DECK
   MISCELLANEOUS STEEL
   STEEL STAIR (*,^)
   FORMWORK (*,#)
   PRE-ENGINEERED METAL BUILDING (*,#)
   LIGHT-GAGE FRAMING (*,^)
   CONCRETE MASONRY (MATERIAL AND REBAR PLACEMENT PLANS)
   SLAB CONTRACTION JOINT LAYOUT

   ITEMS MARKED (*) SHALL HAVE SHOP DRAWINGS SEALED BY A REGISTERED ENGINEER IN THE STATE WHERE THE PROJECT IS LOCATED. ITEMS MARKED (#) SHALL BE SUBMITTED TO ENGINEER FOR OWNER'S RECORD ONLY AND WILL NOT HAVE ENGINEER'S SHOP DRAWING STAMP. ITEMS MARKED (^) SHALL HAVE SEALED STRUCTURAL CALCULATIONS SUBMITTED TO ENGINEER FOR OWNER'S RECORD.

2. ALL SHOP DRAWINGS MUST BE REVIEWED AND SEALED BY THE GENERAL CONTRACTOR PRIOR TO SUBMITTAL.
3. CONTRACTOR SHALL SUBMIT ELECTRONIC COPIES (E.G. PDFS) OF ALL SHOP DRAWINGS SPECIFIED TO BE RETURNED BY THE ENGINEER.
4. THE OMISSION FROM THE SHOP DRAWINGS OF ANY MATERIAL REQUIRED BY THE CONTRACT DOCUMENTS TO BE FURNISHED SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF FURNISHING AND INSTALLING SUCH MATERIALS, REGARDLESS OF WHETHER THE SHOP DRAWINGS HAVE BEEN REVIEWED AND APPROVED.
5. SUBMIT TWO COPIES OF MANUFACTURER'S LITERATURE FOR ALL MATERIALS AND PRODUCTS USED IN CONSTRUCTION ON THE PROJECT.
6. THE USE OF REPRODUCTIONS OF THESE CONTRACT DOCUMENTS BY ANY CONTRACTOR, SUBCONTRACTOR, ERECTOR, FABRICATOR, OR MATERIAL SUPPLIER IN LIEU OF PREPARATION OF SHOP DRAWINGS SIGNIFIES HIS ACCEPTANCE OF ALL INFORMATION SHOWN HEREIN AS CORRECT, AND OBLIGATES HIMSELF TO ANY JOB EXPENSE, REAL OR IMPLIED, ARISING DUE TO ANY ERRORS THAT MAY OCCUR HEREIN.

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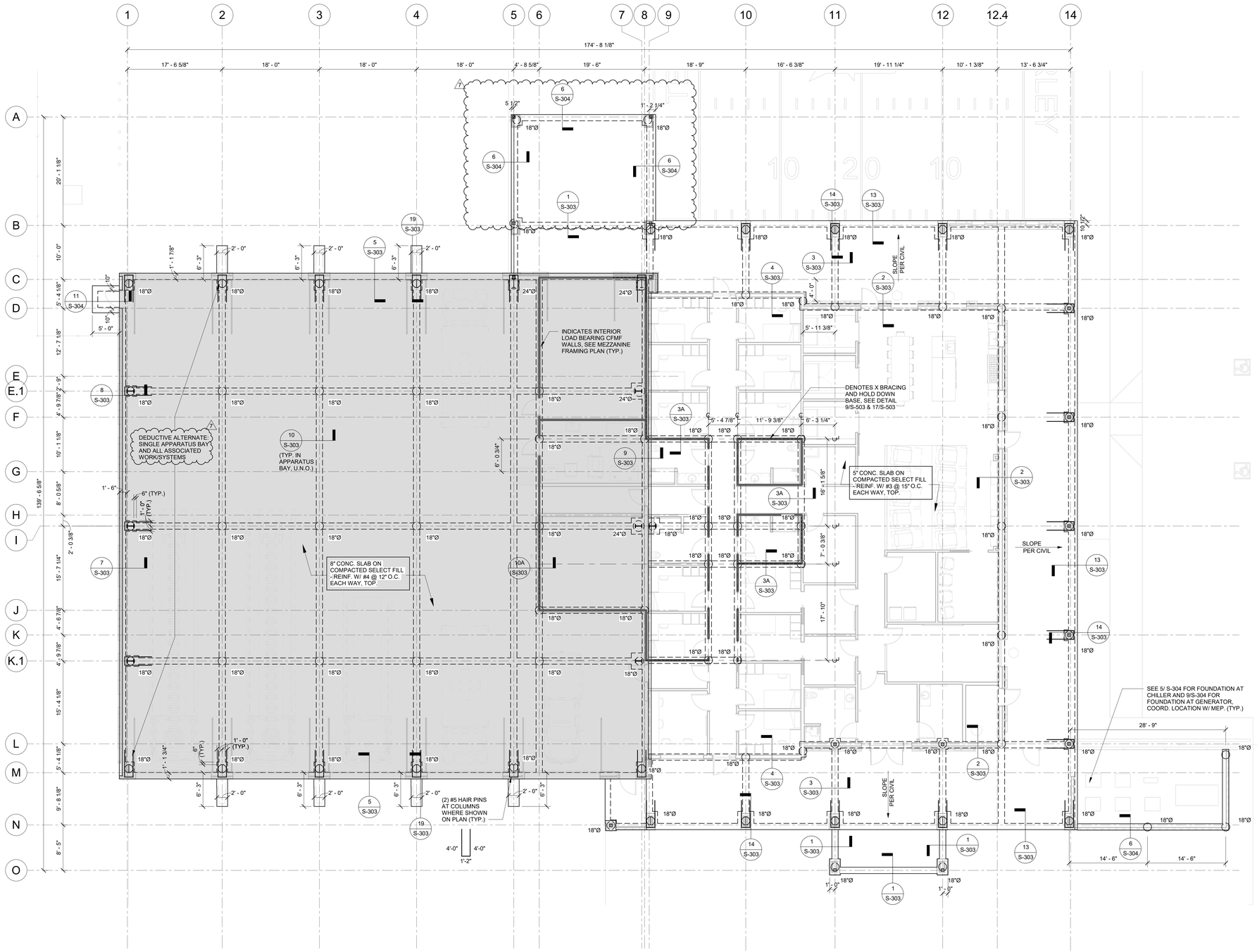
PROJECT No: **MA 25016**
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7	ADDENDUM 4	11/04/2026

GENERAL NOTES

S-101



1 FOUNDATION PLAN
SCALE: 1/8" = 1'-0"

PEMB FOUNDATION PLAN NOTES:

1. ALL PIERS ARE CENTERED UNDER COLUMN CENTERLINES, U.N.O.
2. PIERS UNDER GRADE BEAM (WITHOUT COLUMNS) SHALL BE CENTERED UNDER GRADE BEAMS, U.N.O.
3. ALL PIERS ARE 18" DIA STRAIGHT SHAFTS TYP. U.N.O.
4. SEE 17/S-302 FOR ADDN'L INFORMATION FOR PIER REINFORCEMENT AND MINIMUM EMBEDMENT OF SHAFT INTO LIMESTONE IN STRATUM 3.
5. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL FLOOR SLOPES, DEPRESSIONS, ETC.
6. COORDINATE ALL BRICK LEDGES AND DEPTH WITH ARCHITECTURAL DRAWINGS.
7. LOCATIONS NOTED THUS: 0' - 0" INDICATES TOP OF SLAB ELEVATION.
8. SEE PEMB FOR BASE PLATE INFORMATION.
9. REFER TO PEMB FOR SIZE, LOCATION AND ORIENTATION OF ALL COLUMNS, ANCHOR BOLTS. NOTIFY ARCH. OF ANY DISCREPANCIES BETWEEN PLANS FOR RESOLUTION PRIOR TO FABRICATION AND INSTALLATION.
10. SEE 5/S-301 & 7/S-301 FOR ADDITIONAL REBAR AT OPENINGS, DISCONTINUOUS JOINTS, AND RE-ENTRANT CORNERS IN SLAB-ON-GRADE.
11. PROVIDE CONTRACTION JOINTS AND DISCONTINUOUS SLAB REINFORCING AS SHOWN IN DETAIL 6/S-301.
12. REFER TO MEP FOR SLOPE - INVERT ELEVATION (I.E.) AT DRAINS.
13. TYPICAL SLOPE AT FLOOR IS 1/8" PER FOOT, U.N.O. ON ARCH.
14. PROVIDE (2)-#4X4'-0" TOP & BOT. AT ALL RE-ENTRANT CORNERS AT SLAB ON GRADE. TOP REINFORCING SHALL BE PLACED AT 1 1/4" CLEAR FROM THE TOP OF THE SLAB.
15. ——► WHERE SHOWN ON PLAN INDICATES SLOPE DIRECTION. SEE ARCH. FOR INFORMATION.
16. ALL COLUMN LOCATIONS SHOWN AND ASSOCIATED FOUNDATIONS ARE PLACEHOLDERS IN THE ABSENCE OF A COMPLETE METAL BUILDING DESIGN SUBMITTAL. SEE GENERAL NOTES FOR SUBMITTAL REQUIREMENTS.

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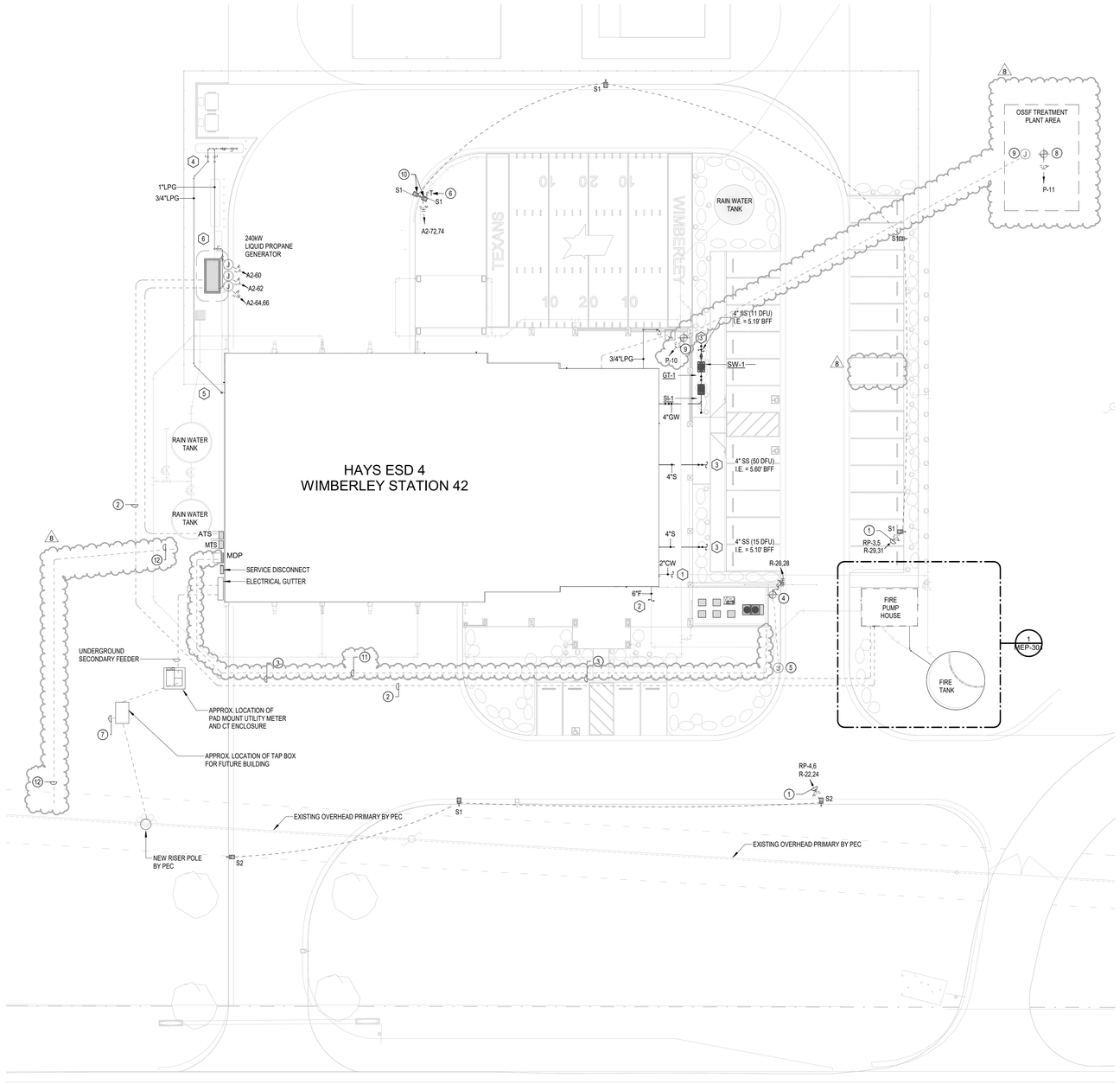
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7	ADDENDUM 4	11/04/2026

FOUNDATION PLAN

S-201



1 MEP SITE PLAN

1" = 20'-0"

PLUMBING KEYED NOTES:

1. DOMESTIC WATER SERVICE, SIZE AND PEAK FLOW RATE AS NOTED. REFER TO CIVIL SITE UTILITY PLANS FOR CONTINUATION.
2. FIRE PROTECTION WATER ENTRY FROM FIRE PUMP, SIZE AS NOTED. COORDINATE WITH FINAL TANK, FIRE PUMP, AND FIRE SPRINKLER DESIGN PROVIDED BY FIRE PROTECTION ENGINEER HIRED BY CONTRACTOR.
3. SANITARY BUILDING DRAIN, SIZE AS NOTED. REFER TO CIVIL SITE UTILITY PLANS FOR CONTINUATION.
4. PROPANE TANK TO BE OWNER PROVIDED THROUGH WIMBERLEY HYDRO GAS. COORDINATE CONCRETE PAD REQUIREMENTS AND INSTALLATION. REFER TO PLUMBING GAS RISER.
5. LP GAS SERVICE TO BUILDING. REFER TO PLUMBING GAS RISER.
6. LP GAS SERVICE TO GENERATOR. REFER TO PLUMBING GAS RISER.

GENERAL FIRE PROTECTION NOTES:

A. PRELIMINARY FIRE TANK CAPACITY ESTIMATED TO BE 55,000 GALLONS. FIRE PROTECTION ENGINEER SHALL COORDINATE FINAL STORAGE REQUIREMENTS WITH AHJ (HAYS COUNTY FIRE MARSHAL) IN ACCORDANCE WITH NFPA 22 AND NFPA 1142.

B. INITIAL WATER FILL FOR FIRE TANK TO BE SUPPLIED BY WATER HAUL PROVIDER CONTRACTED BY OWNER. COORDINATE AGREEMENTS FOR PERMITTING AND FILL DATE WITH OWNER.

C. FIRE PROTECTION ENGINEER, HIRED BY CONTRACTOR, SHALL PROVIDE FULL DESIGN FOR COMPLETE FIRE PROTECTION SYSTEM SERVING BUILDING AND SITE: FIRE SPRINKLER SYSTEM, FIRE LINES, FIRE TANK, HYDRANT, FIRE PUMP, AND JOCKEY PUMP. COORDINATE FINAL ELECTRICAL REQUIREMENTS WITH DIVISION 26.

ELECTRICAL KEYED NOTES

1. EXTERIOR LIGHTING CIRCUIT SHALL BE ROUTED THROUGH CONTACTOR AND BE PHOTOCELL CONTROLLED.
2. UNDERGROUND EMERGENCY FIRE PUMP FEEDER SHALL BE UPSIZED TO 200AMPS TO ACCOUNT FOR VOLTAGE DROP. PROVIDE WITH EQUIPMENT GROUNDING CONDUCTOR. CONDUIT SHALL BE SIZED BASED ON FEEDER SCHEDULE. (8)
3. UNDERGROUND FIRE PUMP SERVICE LATERAL SHALL BE UPSIZED TO 150AMPS TO ACCOUNT FOR VOLTAGE DROP. OMIT GROUND WIRE. CONDUIT SHALL BE SIZED BASED ON FEEDER SCHEDULE.
4. PROVIDE ELECTRICAL CONNECTION AND DISCONNECT FOR MOTORIZED GATE OPERATOR. PROVIDE ADDITIONAL RACEWAY FOR SENSOR LOOP, AND ANY ADDITIONAL CONTROL ROUGH-IN REQUIREMENTS INDICATED BY GATE SHOP DRAWINGS.
5. PROVIDE SPARE CONDUIT WITH PULL STRING AND ROUGH-IN TO CARD READER PEDESTAL. FIELD COORDINATE EXACT LOCATION.
6. LIGHT FIXTURE FACING FIELD SHALL BE CONTROLLED BY SPRING WOUND TIMER SWITCH. TIMER SWITCH SHALL BE MOUNTED TO POLE AND BE PROVIDED WITH WEATHERPROOF COVER.
7. (3) 3" CONDUIT STUB-OUT FOR FUTURE BUILDING.
8. PROVIDE 120V ELECTRICAL CONNECTION OSSF AUDIO / VISUAL ALARM. COORDINATE ALL WIRING BETWEEN ALARM AND OSSF EQUIPMENT WITH INSTALLER. (8)
9. PROVIDE 1" CONDUIT FROM AIR DIFFUSER TO OSSF BLOWER / COMPRESSOR. LOCATE BLOWER / COMPRESSOR WITHIN 50FT OF TREATMENT PLANT PER OSSF DETAIL. FINAL LOCATION OF BLOWER / COMPRESSOR SHALL BE FIELD COORDINATED.
10. (2) SINGLE HEAD POLE LIGHTS SHALL BE CIRCUITED SEPARATELY.
11. UNDERGROUND FEEDER TO PANEL 'R' SHALL BE UPSIZED TO 300AMPS TO ACCOUNT FOR VOLTAGE DROP. PROVIDE WITH EQUIPMENT GROUNDING CONDUCTOR. CONDUIT SHALL BE SIZED BASED ON FEEDER SCHEDULE.
12. PROVIDE 2-1/2" CONDUIT WITH PULL STRING FOR INCOMING DATA. FINAL INCOMING SERVICE LOCATION AND ENTRY INTO BUILDING SHALL BE COORDINATED WITH TECHNOLOGY INSTALLER. FOR CONTINUATION TO IT/ELEC. ROOM TERMINATION POINT REFER ELECTRICAL AND TECHNOLOGY PLANS.

EMERALD MEP
TX FIRM No. F-24826
PROJECT No. 25018

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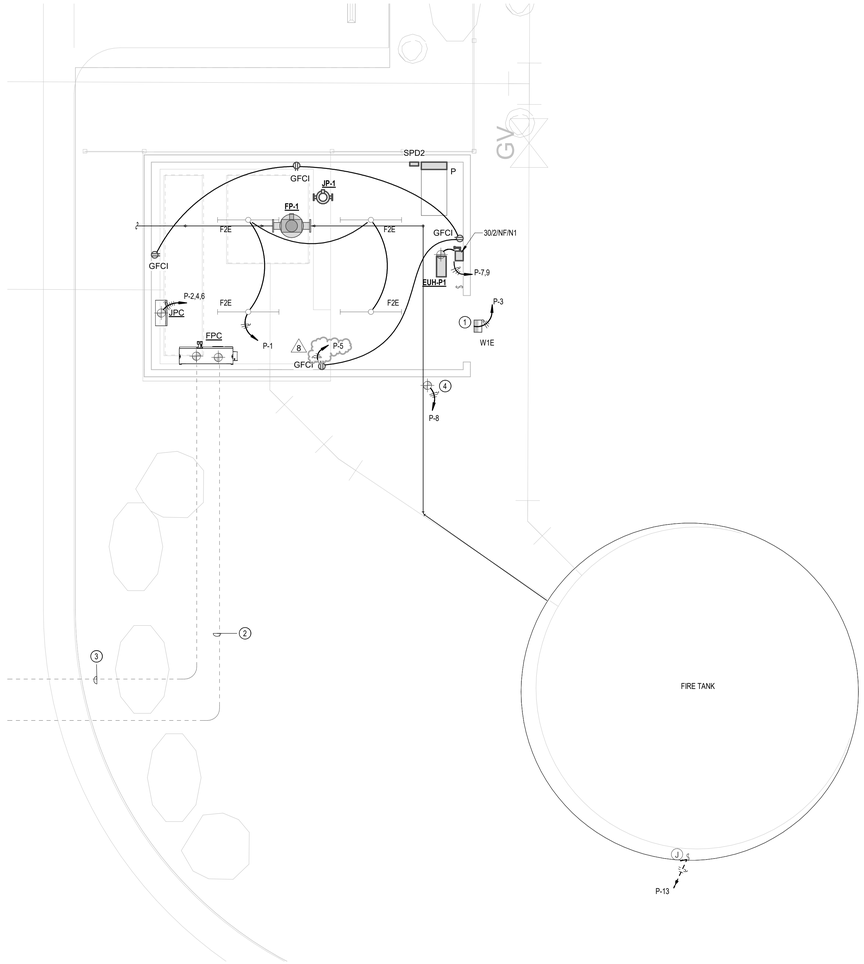
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8	ADDENDUM#4	04-NOV-2026

MEP SITE PLAN

MEP-201



1 MEP SITE PLAN - ENLARGED

1/4" = 1'-0"

⑧ ELECTRICAL KEYED NOTES

1. EXTERIOR LIGHT FIXTURE SHALL BE CONTROLLED BY FIXTURE PHOTOCELL ACCESSORY. REFER TO LIGHT FIXTURE SCHEDULE.
2. UNDERGROUND EMERGENCY FIRE PUMP FEEDER SHALL BE UPSIZED TO 200AMPS TO ACCOUNT FOR VOLTAGE DROP. PROVIDE WITH EQUIPMENT GROUNDING CONDUCTOR. CONDUIT SHALL BE SIZED BASED ON FEEDER SCHEDULE. △8
3. UNDERGROUND FIRE PUMP SERVICE LATERAL SHALL BE UPSIZED TO 150AMPS TO ACCOUNT FOR VOLTAGE DROP. OMIT GROUND WIRE. CONDUIT SHALL BE SIZED BASED ON FEEDER SCHEDULE.
4. PROVIDE 120V ELECTRICAL CONNECTION FOR TRACE HEAT WIRING FOR FIRE WATER PIPING. EXACT LENGTH SHALL BE COORDINATED IN FIELD.
5. DEDICATED RECEPTACLE FOR OWNER PROVIDED HEATER. COORDINATE FINAL ROUGH-IN LOCATION WITH ARCHITECT / OWNER.

EMERALD MEP

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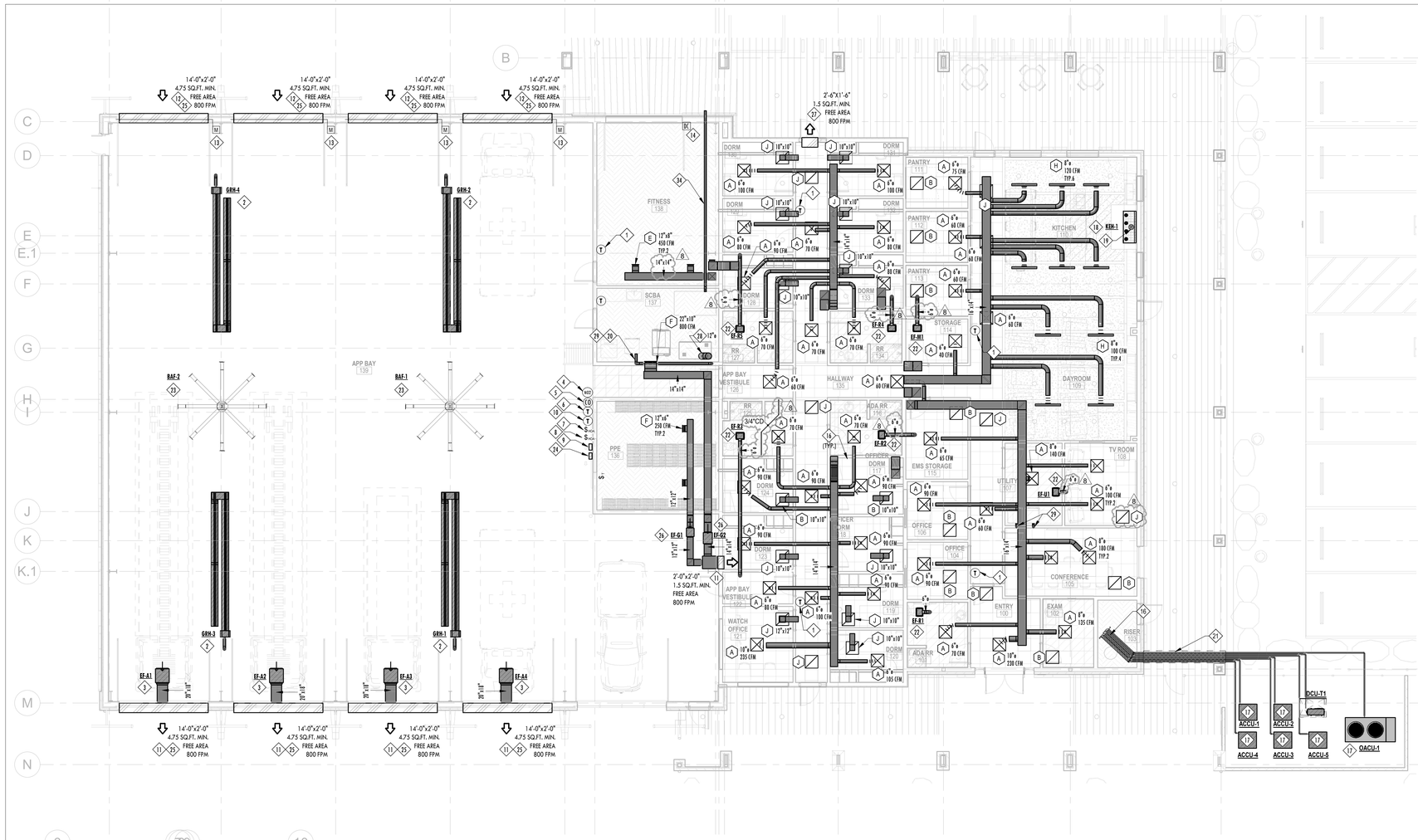
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6	IFB	20-OCT-2026
8	ADDENDUM#4	04-NOV-2026

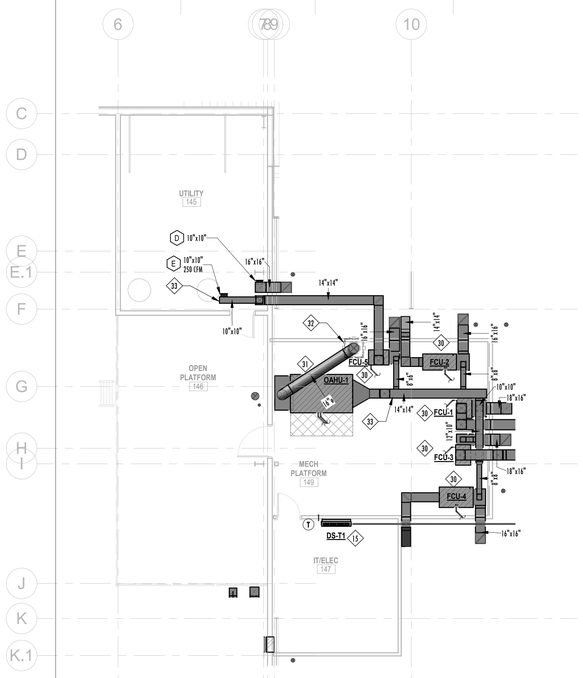
ENLARGED MEP PLAN

MEP-301



1 MECHANICAL PLAN - LEVEL ONE

1/8" = 1'-0"



2 MECHANICAL PLAN - MEZZANINE

1/8" = 1'-0"

MECHANICAL KEYED NOTES:

1. PROVIDE AND LOCATE THERMOSTAT AS SHOWN. MOUNT AT SAME ELEVATION AS LIGHT SWITCHES. COORDINATE EXACT LOCATION WITH ARCHITECT.
2. PROVIDE GAS RADIANT HEATER AT APPROXIMATE LOCATION. SUSPEND HEATER FROM STRUCTURE AT ELEVATION ABOVE OVERHEAD DOOR RAILING. COORDINATE EXACT LOCATION WITH OTHER TRADES TO AVOID CONFLICTS. ROUTE 5" ROUND FLUE FROM HEATER UP THROUGH ROOF AND TERMINATE 3'-0" (MIN.) ABOVE ROOF WITH ROOF CAP. SLOPE OF FLUE SHALL NOT BE MORE THAN 45° FROM VERTICAL. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
3. PROVIDE INLINE EXHAUST FAN AS SCHEDULED, SUSPENDED FROM STRUCTURE ABOVE, AT APPROXIMATE LOCATION. INSTALL PER MANUFACTURER'S SPECIFICATION. COORDINATE EXACT LOCATION WITH ARCHITECT. PROVIDE TRANSITIONS AS REQUIRED. COVER INLET OF FAN WITH HARDWARE CLOTH.
4. PROVIDE NO2 (NITROGEN DIOXIDE) DETECTOR, AIRTEST MODEL 'TR-3210', AT 1'-0" ABOVE FINISHED FLOOR. EXHAUST FANS (EF-A1 & EF-A3) SHALL ENERGIZE UPON DETECTION OF NO2 AT CONCENTRATION OF 1 PPM. VISUAL AND AUDIBLE ALARM SHALL SIGNAL UPON NO2 CONCENTRATION OF 3 PPM. INSTALL AND CALIBRATE PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE WITH CALIBRATION GAS KIT AND GUARD. CALIBRATION TO BE PERFORMED ANNUALLY.
5. PROVIDE CO (CARBON MONOXIDE) DETECTOR, AIRTEST MODEL 'TR-2000', AT 5'-0" ABOVE FINISHED FLOOR. EXHAUST FANS (EF-A1 & EF-A3) SHALL ENERGIZE UPON DETECTION OF CO AT CONCENTRATION OF 50 PPM. VISUAL AND AUDIBLE ALARM SHALL SIGNAL UPON DETECTION OF CO AT CONCENTRATION OF 100 PPM. INSTALL AND CALIBRATE PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE WITH CALIBRATION GAS KIT AND GUARD. CALIBRATION TO BE PERFORMED ANNUALLY.
6. PROVIDE THERMOSTAT FOR EXHAUST FANS (EF-A2 & EF-A4) AT APPROXIMATE LOCATION SHOWN AT SAME ELEVATION AS LIGHT SWITCHES. COORDINATE WITH ARCHITECT PRIOR TO CONSTRUCTION TO AVOID CONFLICT.
7. PROVIDE HOA (HAND/OFF/AUTO) SWITCH FOR EXHAUST FANS (EF-A2 & EF-A4) AT APPROXIMATE LOCATION SHOWN AT SAME ELEVATION AS LIGHT SWITCHES. FANS (EF-A2 & EF-A4) SHALL ENERGIZE ON 'AUTO' POSITION UPON DETECTION OF CO/NO2 CONCENTRATIONS ABOVE ASSOCIATED HIGH LIMITS OR WHEN TEMPERATURE EXCEEDS 85°F (ADJ.).
8. PROVIDE HOA (HAND/OFF/AUTO) SWITCH FOR EXHAUST FANS (EF-A1 & EF-A3) AT APPROXIMATE LOCATION SHOWN AT SAME ELEVATION AS LIGHT SWITCHES. FANS (EF-A1 & EF-A3) SHALL RUN (LOW SPEED) CONTINUOUSLY 'ON' AUTO' POSITION, AND INCREASE TO FULL SPEED UPON DETECTION OF CO/NO2 CONCENTRATIONS ABOVE ASSOCIATED HIGH LIMITS OR WHEN SIGNAL IS PROVIDED BY ALERTING SYSTEM. FAN SHALL RUN FOR 15 MINUTES (ADJ.) UPON ACTIVATION BY ALERTING SYSTEM.
9. PROVIDE GAS DETECTION SYSTEM CONTROLLER AIRTEST MODEL CT-2100 AND INSTALL ABOVE CO SENSOR. PROVIDE 120-VOLT TO 24-VOLT (LOW VOLTAGE) TRANSFORMER AS NEEDED FOR POWER.
10. TIE GAS UNIT HEATERS (GUH-1-4) TOGETHER AND LOCATE THERMOSTAT ON WALL AS SHOWN. MOUNT AT SAME ELEVATION AS LIGHT SWITCHES THERMOSTAT SHALL ENERGIZE HEATER TO MAINTAIN TEMPERATURE AT 60°F (ADJUSTABLE).
11. PROVIDE RUSKIN HZ700 EXHAUST AIR LOUVER WITH DIMENSIONS AND FREE AREA AS INDICATED. EXHAUST LOUVER SHALL BE PROVIDED WITH A MINIMUM OF 18" DEEP PLENUM, FULL SIZE IN WIDTH AND HEIGHT OF LOUVER UNLESS NOTED OTHERWISE. UNUSED PORTIONS OF LOUVER SHALL BE COVERED WITH RUSKIN BLANK-OFF PANELS. COORDINATE LOUVER AND PANEL FINISHES WITH ARCHITECT.
12. PROVIDE RUSKIN HZ700 INTAKE AIR LOUVER WITH A FREE AREA AS INDICATED. COORDINATE EXACT LOUVER DIMENSIONS, LOCATION, AND FINISH WITH ARCHITECT. INTAKE LOUVER SHALL BE PROVIDED WITH A MINIMUM OF 18" DEEP PLENUM, FULL SIZE IN WIDTH AND HEIGHT OF LOUVER UNLESS NOTED OTHERWISE. INTAKE LOUVER SHALL BE INSTALLED A MINIMUM OF 10'-0" FROM EXHAUST OUT OF BUILDING. UNUSED PORTIONS OF LOUVER SHALL BE COVERED WITH RUSKIN BLANK-OFF PANELS. COORDINATE LOUVER AND PANEL FINISHES WITH ARCHITECT.
13. INTERLOCK MOTORIZED DAMPER WITH ASSOCIATED EXHAUST FANS SUCH THAT DAMPER SHALL BE OPEN WHEN FANS ARE ENERGIZED AND SHUT WHEN FANS ARE DE-ENERGIZED.
14. PROVIDE DOOR CONTACT FOR OVERHEAD DOOR. INTERLOCK WITH ASSOCIATED FAN COIL UNIT TO DISABLE UNIT WHEN DOOR IS OPEN AND ENABLE UNIT WHEN DOOR IS CLOSED.
15. PROVIDE NEW DUCTLESS FAN COIL UNIT AS SCHEDULED. MOUNT ABOVE DOOR HEIGHT FROM WALL STRUCTURE. PROVIDE ALL CLEARANCES AND ACCESS AS RECOMMENDED BY MANUFACTURER. ROUTE 3/4"Ø CONDENSATE TO LAVATORY Y-TAIL PIECE. COORDINATE WITH DIVISION 22.
16. ROUTE REFRIGERANT PIPING THROUGH FOUNDATION PIPE CORRIDOR INTO BUILDING, UP ABOVE CEILING HEIGHT, TO ASSOCIATED INDOOR UNIT. PROVIDE DIRECT ROUTE TO ASSOCIATED INDOOR UNIT, UTILIZING MINIMUM AMOUNT OF ELBOWS AND NOT EXCEEDING MANUFACTURER'S MAXIMUM LINE LENGTHS. SIZE LINES PER MANUFACTURER'S RECOMMENDATIONS.
17. PROVIDE OUTDOOR CONDENSING UNIT WITH CONCRETE HOUSEKEEPING PAD THAT EXTENDS 6" FROM UNIT ON ALL SIDES. INSTALL PER MANUFACTURER'S RECOMMENDATIONS, PROVIDE REQUIRED CLEARANCES.
18. PROVIDE CAPTIVEAIRE WRH-48 UL507 HOOD WITH INTEGRAL EXHAUST FAN AND CORE FIRE SUPPRESSION. PROVIDE WITH FULL HEIGHT (TOP OF HOOD TO CEILING) STAINLESS STEEL WRAPPER . COORDINATE FINAL CORE NOZZLE QUANTITIES AND LOCATIONS WITH ASSOCIATED KITCHEN RANGE PURCHASED BY CONTRACTOR/OWNER AND CAPTIVEAIRE. COORDINATE GAS VALVE INSTALLATION, POWER REQUIREMENTS, AND ROUGH-INS NEEDED FOR EQUIPMENT AND ALL ACCESSORIES (PULL STATION, POWER, ETC.) WITH OTHER TRADES PRIOR TO WALLS CLOSING.
19. CONNECT 10"Ø RIGID DOMESTIC RANGE HOOD EXHAUST DUCT, SIZED TO MATCH HOOD CONNECTION, TO HOOD AND DUCT TO ROOF CAP; PROVIDE TRANSITIONS AS REQUIRED. PROVIDE ROOF CAP BY FAMCO 'AVEBA' OR EQUIVALENT. WRAP DUCT AND LOUVER PLENUM WITH 3M 2-HR RATED FIRE WRAP (MODEL 615+ OR APPROVED EQUAL). INSTALL PER RANGE HOOD MANUFACTURER'S RECOMMENDATIONS.
20. PROVIDE FANTECH MODEL 'DBT-110' BOOSTER FAN AND LINT TRAP MODEL 'DBLT'. COORDINATE FINAL ROUTING WITH STRUCTURE. PROVIDE TRANSITIONS AS REQUIRED.
21. ROUTE REFRIGERANT PIPING THROUGH FOUNDATION PIPE CORRIDOR INTO RISER, AVOIDING P-TRAP BENDS. PIPE CORRIDOR SHALL BE PROVIDED WITH REMOVABLE PANELS, RE: ARCHITECTURE.
22. PROVIDE CEILING MOUNTED EXHAUST FAN AT APPROXIMATE LOCATION SHOWN, SUSPEND FROM STRUCTURE ABOVE. TIE INTO DEDICATED WALL SWITCH (COORDINATE WITH ELECTRICAL CONTRACTOR); ROUTE EXHAUST DUCT TO GREENHECK ROOF CAP. MAINTAIN 10'-0" MINIMUM DISTANCE FROM HVAC INTAKE AND/OR BUILDING OPENINGS.
23. PROVIDE HVLS FAN AS SCHEDULED AND INDICATED ON PLANS. THE FAN BLADES MUST BE A MINIMUM DISTANCE OF 3' IN ANY DIRECTION FROM ANY OBSTACLES (CEILING DECK, MAJOR STRUCTURAL OBSTRUCTIONS, LIGHT GRID). COORDINATE HVLS FAN INSTALLATION WITH GARAGE DOORS, HEATERS, LIGHTS AND OTHER BUILDING COMPONENTS. TIE HVLS FAN TO FIRE ALARM SYSTEMS RELAY TO DISABLE HVLS IF ALARM IS ACTIVATED.
24. PROVIDE WIRED BAF 'BAFCON' CONTROLLER AT APPROXIMATE LOCATION. COORDINATE FINAL LOCATION WITH ARCHITECT AND OTHER TRADES.
25. LOUVER SHALL SPAN ENTIRE WIDTH (14'-0") OF APPARATUS BAY DOOR AND HEIGHT (2'-0") PER ARCHITECTURAL. PROVIDE LOUVER IN SECTIONS AS DETAILED BY ARCHITECTURAL ELEVATIONS. COORDINATE FINAL LOUVER DIMENSIONS WITH ARCHITECT, ARCHITECTURAL PLANS/DETAILS/ELEVATIONS, BUILDING STRUCTURE, AND APPARATUS BAY DOOR FRAMING. FREE AREA INDICATED IS FOR ACTIVE PORTION (UTILIZED FOR VENTILATION) OF LOUVER.
26. PROVIDE INLINE EXHAUST FAN AS SCHEDULED, SUSPENDED FROM STRUCTURE ABOVE, AT APPROXIMATE LOCATION. INSTALL PER MANUFACTURER'S SPECIFICATION. PROVIDE TRANSITIONS AT INLET AND OUTLET AS REQUIRED TO MAKE DUCTWORK CONNECTIONS. MAINTAIN 10'-0" MINIMUM DISTANCE FROM HVAC INTAKE AND/OR BUILDING OPENINGS.
27. PROVIDE RUSKIN HZ700 RELIEF AIR LOUVER WITH DIMENSIONS AND FREE AREA AS INDICATED. RELIEF LOUVER SHALL BE PROVIDED WITH A MINIMUM OF 18" DEEP PLENUM, FULL SIZE IN WIDTH AND HEIGHT OF LOUVER UNLESS NOTED OTHERWISE. PROVIDE WITH BAROMETRIC DAMPER. PLENUM SHALL BE EXTENDED AS NEEDED FOR INSTALLATION OF RELIEF DAMPER. COORDINATE LOUVER FINISH WITH ARCHITECT.
28. PROVIDE RIGID METAL EXHAUST DUCT, CONNECT TO DRYER CABINET EXHAUST OPENING AND ROUTE TO WALL CAP. PROVIDE INSECT SCREEN AND TRANSITIONS AS REQUIRED. INSTALL PER DRYER CABINET MANUFACTURER'S RECOMMENDATIONS.
29. ROUTE 4"Ø RIGID METAL DRYER EXHAUST DUCT UP THROUGH ROOF. PROVIDE TRANSITIONS AS REQUIRED. TERMINATE THROUGH ROOF TO GOOSE NECK. 8
30. PROVIDE NEW FAN COIL UNIT AS SCHEDULED; SUPPORT FROM FLOOR STRUCTURE. PROVIDE FIELD FABRICATED FULL-SIZED MIXING PLENUM BOX AT INTAKE END AND FLEXIBLE CONNECTION AT UNIT DISCHARGE. PROVIDE ALL CLEARANCES AND ACCESS AS RECOMMENDED BY MANUFACTURER. ROUTE 5" FLUE UP THROUGH ROOF. PROVIDE 3/4"Ø CONDENSATE AND ROUTE TO FLOOR DRAIN.
31. PROVIDE NEW HORIZONTAL OUTDOOR AIR HANDLING UNIT AS SCHEDULED; SUPPORT FROM FLOOR STRUCTURE. PROVIDE FIELD FABRICATED FULL-SIZED PLENUM BOX AT INTAKE END AND FLEXIBLE CONNECTION AT UNIT DISCHARGE. PROVIDE ALL CLEARANCES AND ACCESS AS RECOMMENDED BY MANUFACTURER. PROVIDE 3/4"Ø CONDENSATE AND ROUTE TO NEAREST FLOOR DRAIN.
32. PROVIDE 18" DIAMETER GRAVITY INTAKE HOOD, GREENHECK MODEL 'GRSI-18' OR EQUAL. PROVIDE AND COORDINATE FACTORY FINISH COLOR WITH ARCHITECT. PROVIDE WITH 14" HIGH INSULATED ROOF CURB DIMENSIONED FOR SLOPE OF ROOF. COORDINATE FINAL LOCATION WITH STRUCTURE AND OTHER TRADES TO PROVIDE 10' MINIMUM DISTANCE FROM EXHAUST/VENT OPENINGS.
33. ROUTE DUCT HIGH UP ABOVE DOOR OPENING ELEVATION.
34. PROVIDE SCBA COMPRESSOR AIR INTAKE, SIZE AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS. COORDINATE FINAL ELEVATION AND LOCATION WITH OWNER.

EMERALD MEP
TX FIRM No. F-24826
PROJECT No. 25018

PROFESSIONAL SEAL

STATE OF TEXAS
M. JACQUELINE CHANG
124987
LICENSED
PROFESSIONAL ENGINEER
2026-11-04

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Matrix Structural

MEP
Emerald MEP

Technology
Imagine IT

Alerting
WestNET

STATION #42

Hays County ESD #4

Wimberley, TX 78676

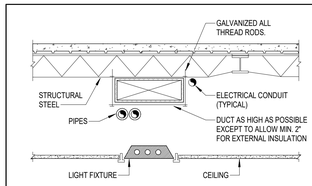
PROJECT No: **MA 25016**
DATE: **20-OCT-2026**

ISSUE

1	100% DD	06-JAN-2026
2	50% CD	23-FEB-2026
3	75% CD	06-APR-2026
4	98% CD	04-MAY-2026
5	IFP	01-JUN-2026
6	IFB	20-OCT-2026
8	ADDENDUM#4	04-NOV-2026

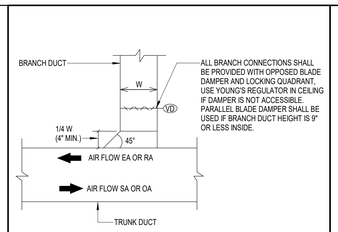
MECHANICAL PLANS

M-201



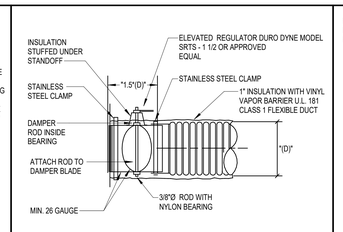
NOTES:
1. PIPES (INCLUDING SPRINKLER PIPING) AND ELECTRICAL CONDUIT CAN BE ROUTED BETWEEN JOISTS OR THROUGH JOIST WEB SPACE AS REQUIRED. DUCT SHALL BE LOCATED AS HIGH AS POSSIBLE.
2. U.L. DESIGN ASSEMBLY NUMBERS ARE SHOWN ON ARCHITECTURAL PLANS WHEN REQUIRED.
3. INSTALLATION OF ALL SERVICES MUST BE COORDINATED BY THE CONTRACTOR.

1 TYP. MEP INSTALLATION DETAIL
NOT TO SCALE



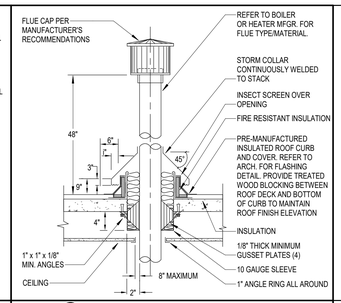
NOTES:
THIS CONNECTION SHALL BE TYPICAL FOR ALL RECTANGULAR BRANCH DUCT CONNECTIONS TO RECTANGULAR TRUNK DUCTS, INCLUDING SUPPLY, RETURN, OUTSIDE AIR AND EXHAUST DUCTS.

2 RECTANGULAR BRANCH DUCT TAP
NOT TO SCALE

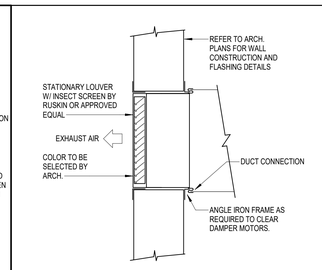


NOTES:
1. ALL FLEXIBLE DUCT OFFSETS AND BENDS SHALL MAINTAIN A RADIUS OF 1.5x(D) MIN. 3'-0" AND MAX. 6'-0".
2. TYPICAL OF ROUND DUCT CONNECTIONS TO RECTANGULAR DUCTS.

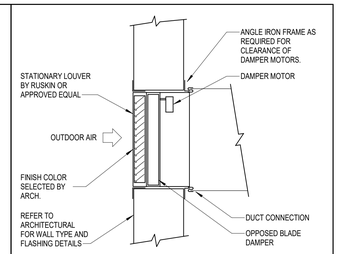
3 SPIN-IN DETAIL
NOT TO SCALE



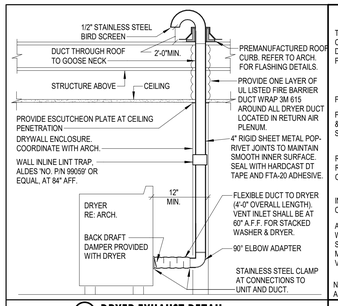
4 STEEL FLUE THRU ROOF DETAIL
NOT TO SCALE



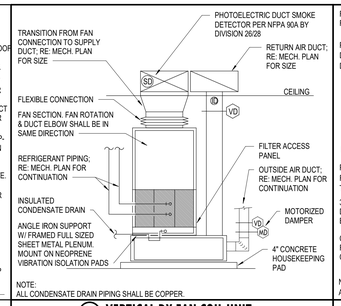
5 EXHAUST LOUVER MOUNTING
NOT TO SCALE



6 INTAKE LOUVER MOUNTING
NOT TO SCALE

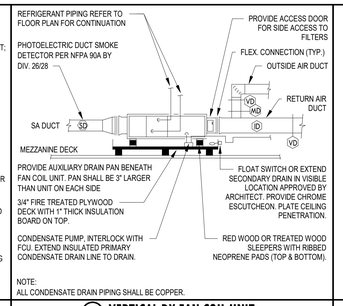


7 DRYER EXHAUST DETAIL
NOT TO SCALE



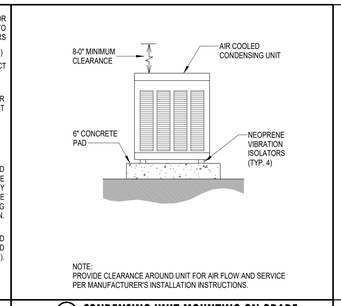
NOTE:
ALL CONDENSATE DRAIN PIPING SHALL BE COPPER.

8 VERTICAL DX FAN COIL UNIT
NOT TO SCALE



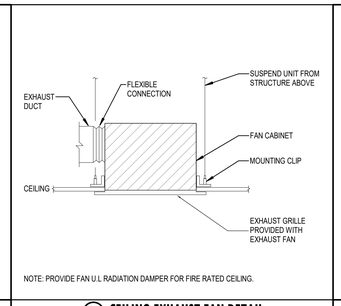
NOTE:
ALL CONDENSATE DRAIN PIPING SHALL BE COPPER.

9 VERTICAL DX FAN COIL UNIT
NOT TO SCALE



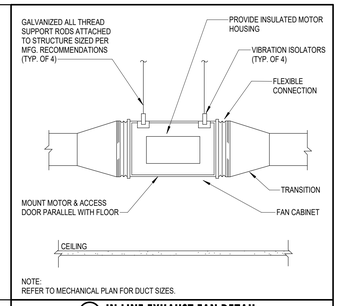
NOTE:
PROVIDE CLEARANCE AROUND UNIT FOR AIR FLOW AND SERVICE PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.

10 CONDENSING UNIT MOUNTING ON GRADE
NOT TO SCALE



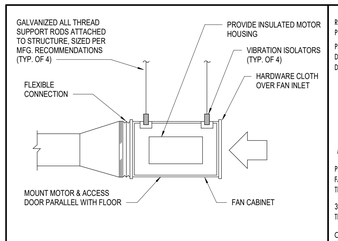
NOTE: PROVIDE FAN U.L RADIATION DAMPER FOR FIRE RATED CEILING.

11 CEILING EXHAUST FAN DETAIL
NOT TO SCALE



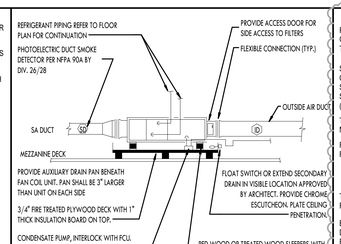
NOTE:
REFER TO MECHANICAL PLAN FOR DUCT SIZES.

12 IN-LINE EXHAUST FAN DETAIL
NOT TO SCALE



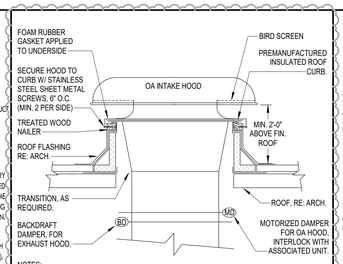
NOTE:
REFER TO MECHANICAL PLAN FOR DUCT SIZE.

13 IN-LINE BAY EXHAUST FAN DETAIL
NOT TO SCALE



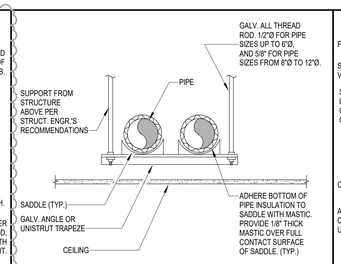
NOTE:
ALL CONDENSATE DRAIN PIPING SHALL BE COPPER.

14 HORIZONTAL DX DOAS UNIT
NOT TO SCALE



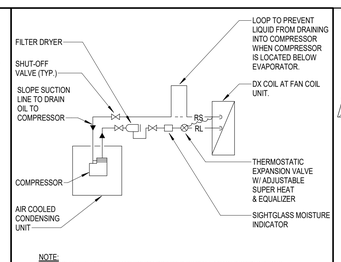
NOTES:
1. INSTALL DAMPERS IN READILY ACCESSIBLE LOCATIONS.
2. PROVIDE DAMPER WITH COUNTER BALANCED WEIGHT FOR RELIEF HOOD.

15 OA INTAKE/EXHAUST/RELIEF HOOD
NOT TO SCALE



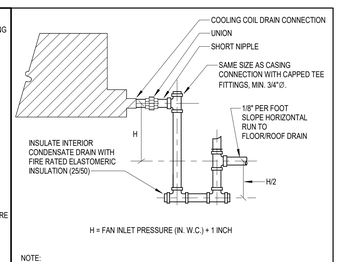
NOTE: CONTRACTOR SHALL SECURE STRUCT. ENGR. APPROVAL FOR ANY AND ALL PIPE MOUNTING DETAILS TO CONCRETE OR STEEL STRUCTURE.

16 PIPE HANGER DETAIL
NOT TO SCALE



NOTE:
1. COMPLY WITH MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS.
2. TYPICAL FOR EACH SEPARATE REFRIGERANT CIRCUIT.
3. PROVIDE FILTER DRYER ON ALL SYSTEMS.
4. USE "ACR" HARD DRAWN COPPER REFRIGERANT PIPE.

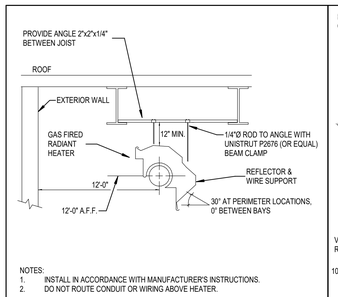
17 REFRIGERANT PIPING SCHEMATIC
NOT TO SCALE



H = FAN INLET PRESSURE (IN. W.C.) + 1 INCH

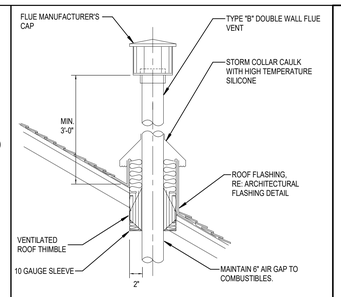
NOTE:
1. MAINTAIN MINIMUM 1" AIR GAP AT FLOOR/ROOF DRAIN/SINK.
2. ALL CONDENSATE DRAIN PIPING SHALL BE COPPER.

18 COOLING COIL CONDENSATE DRAIN
NOT TO SCALE

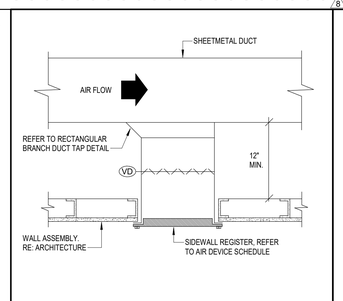


NOTES:
1. INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
2. DO NOT ROUTE CONDUIT OR WIRING ABOVE HEATER.

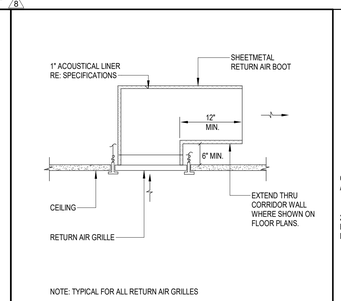
19 GAS RADIANT HEATER MOUNTING
NOT TO SCALE



20 FLUE (SLOPED ROOF) DETAIL
NOT TO SCALE

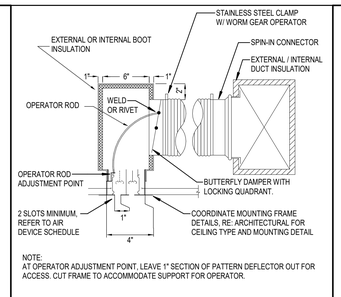


21 SIDEWALL SUPPLY REGISTER DETAIL
NOT TO SCALE



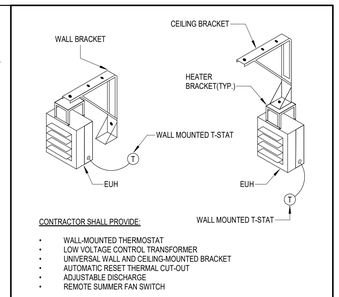
NOTE: TYPICAL FOR ALL RETURN AIR GRILLES

22 RETURN AIR BOOT AT GRILLE
NOT TO SCALE



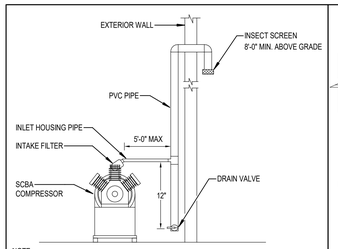
NOTE:
AT OPERATOR ADJUSTMENT POINT, LEAVE 1" SECTION OF PATTERN DEFLECTOR OUT FOR ACCESS. CUT FRAME TO ACCOMMODATE SUPPORT FOR OPERATOR.

23 SLOT DIFFUSER CONNECTION
NOT TO SCALE



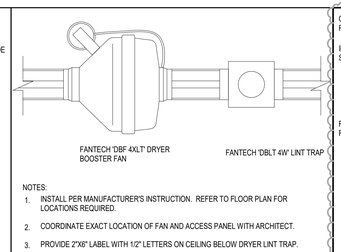
CONTRACTOR SHALL PROVIDE:
- WALL-MOUNTED THERMOSTAT
- LOW VOLTAGE CONTROL TRANSFORMER
- UNIVERSAL WALL AND CEILING-MOUNTED BRACKET
- AUTOMATIC RESET THERMAL CUT-OUT
- ADJUSTABLE DISCHARGE
- REMOTE SUMMER FAN SWITCH

24 ELECTRIC UNIT HEATER DETAIL
NOT TO SCALE



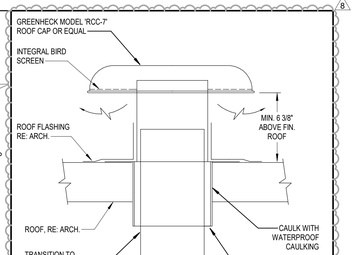
NOTE:
PVC PIPE SHALL BE 3'-0" TO 5'-0" FROM THE COMPRESSOR INTAKE, PROVIDE WITH STUB REDUCER THE SAME SIZE AS THE COMPRESSOR INLET HOUSING PIPE. CONFIRM PVC AND HOUSING PIPE SIZES WITH SCBA COMPRESSOR PURCHASED BY OWNER/CONTRACTOR. INSTALL ACCORDING TO SCBA MANUFACTURER'S RECOMMENDATIONS.

25 SCBA COMPRESSOR AIR INTAKE
NOT TO SCALE



NOTES:
1. INSTALL PER MANUFACTURER'S INSTRUCTION. REFER TO FLOOR PLAN FOR LOCATIONS REQUIRED.
2. COORDINATE EXACT LOCATION OF FAN AND ACCESS PANEL WITH ARCHITECT.
3. PROVIDE 2"X6" LABEL WITH 1/2" LETTERS ON CEILING BELOW DRYER LINT TRAP.
4. PROVIDE WITH INTEGRATED PRESSURE SENSING SWITCH.
5. PROVIDE WITH MANUFACTURER'S MOUNTING BRACKET.

26 DRYER EXHAUST BOOSTER FAN
NOT TO SCALE



NOTE: FOR 7" ROUND DUCT AND SMALLER

27 CEILING EXH. FAN ROOF CAP
NOT TO SCALE

EMERALD MEP
TX FIRM No. F-24826
PROJECT No. 25018

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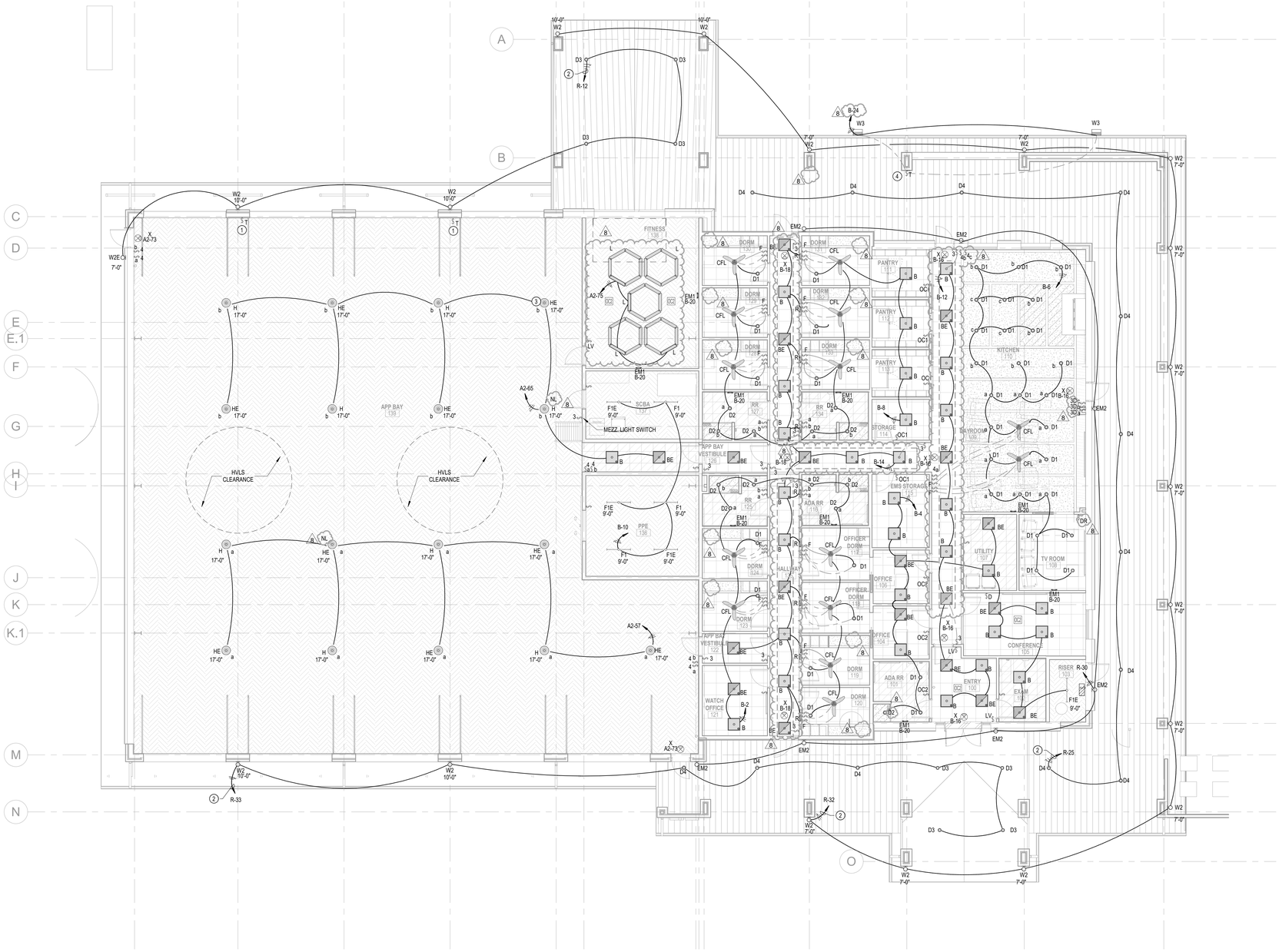
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8	ADDENDUM#4	04-NOV-2026

MECHANICAL DETAILS

M-601



1 LIGHTING PLAN - LEVEL ONE

1/8" = 1'-0"

LIGHTING GENERAL NOTES APPLY TO ALL LIGHTING PLANS

LIGHTING GENERAL NOTES

A. LIGHTING CONTROL DEVICES SHALL BE PROVIDED IN ACCORDANCE WITH PERFORMANCE DESCRIPTION INDICATED IN THE LIGHTING CONTROL DEVICE SCHEDULE FOUND ON SCHEDULE SHEETS.

B. MULTIPLE SWITCHES SHOWN TOGETHER SHALL BE GANGED UNDER A COMMON COVER PLATE.

C. PROVIDE LABELING OF ALL CONTROL DEVICES, SWITCH PACKS, LIGHT FIXTURES, JUNCTION BOXES, ETC IN ACCORDANCE WITH ELECTRICAL SPECIFICATIONS.

D. LIGHTING FIXTURE LOCATIONS SHOWN TAKE PRECEDENT IN CEILING LOCATION TO ALL OTHER TRADES. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ENSURING OTHER TRADES DO NOT IMPACT SPACING AND/OR OVERLAYMENT OF OTHER DEVICES WHERE LIGHT FIXTURES MUST BE INSTALLED.

E. REFERENCE SYMBOLS LEGEND FOR LIGHT SWITCH DEVICE NOMENCLATURE AND SWITCH-LEG ASSOCIATIONS.

F. ALL 2X2, 2X4 FIXTURES INSTALLED IN SUSPENDED GRID CEILING SHALL BE PROVIDED WITH (2) SECONDARY SUPPORT WIRES ANCHORED DIRECTLY TO STRUCTURE.

G. A. PROVIDE ALL EMERGENCY LIGHT FIXTURES WITH UNSWITCHED HOT LEG AS DEFINED IN NEC 700.12.

H. ROUTE AN UNSWITCHED HOT LEG TO ALL LIGHT FIXTURES DESIGNATED AS EMERGENCY FIXTURES. HOT LEG SHALL ORIGINATE FROM CIRCUIT SERVING NORMAL LIGHTING FIXTURES IN THAT SPACE. UNSWITCHED HOT LEG SHALL CONNECT TO THE NORMAL POWER SENSING LUG ON THE EMERGENCY BATTERY PACK.

I. PROVIDE UN-SWITCHED CIRCUIT TO ALL EXIT SIGNS.

J. CONDUIT AND JUNCTION BOXES IN AREAS WITH EXPOSED STRUCTURE SHALL BE INSTALLED TIGHT TO STRUCTURE (OVERHEAD, WALLS, COLUMNS, ETC.).

LIGHTING KEYED NOTES

1. SPRING WOUND TIMER SWITCH FOR FLOOD LIGHTS SHOWN ON MEZZANINE PLAN.
2. EXTERIOR LIGHTING CIRCUIT SHALL BE ROUTED THROUGH CONTACTOR AND BE PHOTOCELL CONTROLLED.
3. NOT USED. 8
4. SPRING WOUND TIMER SWITCH FOR FIELD LIGHTS.

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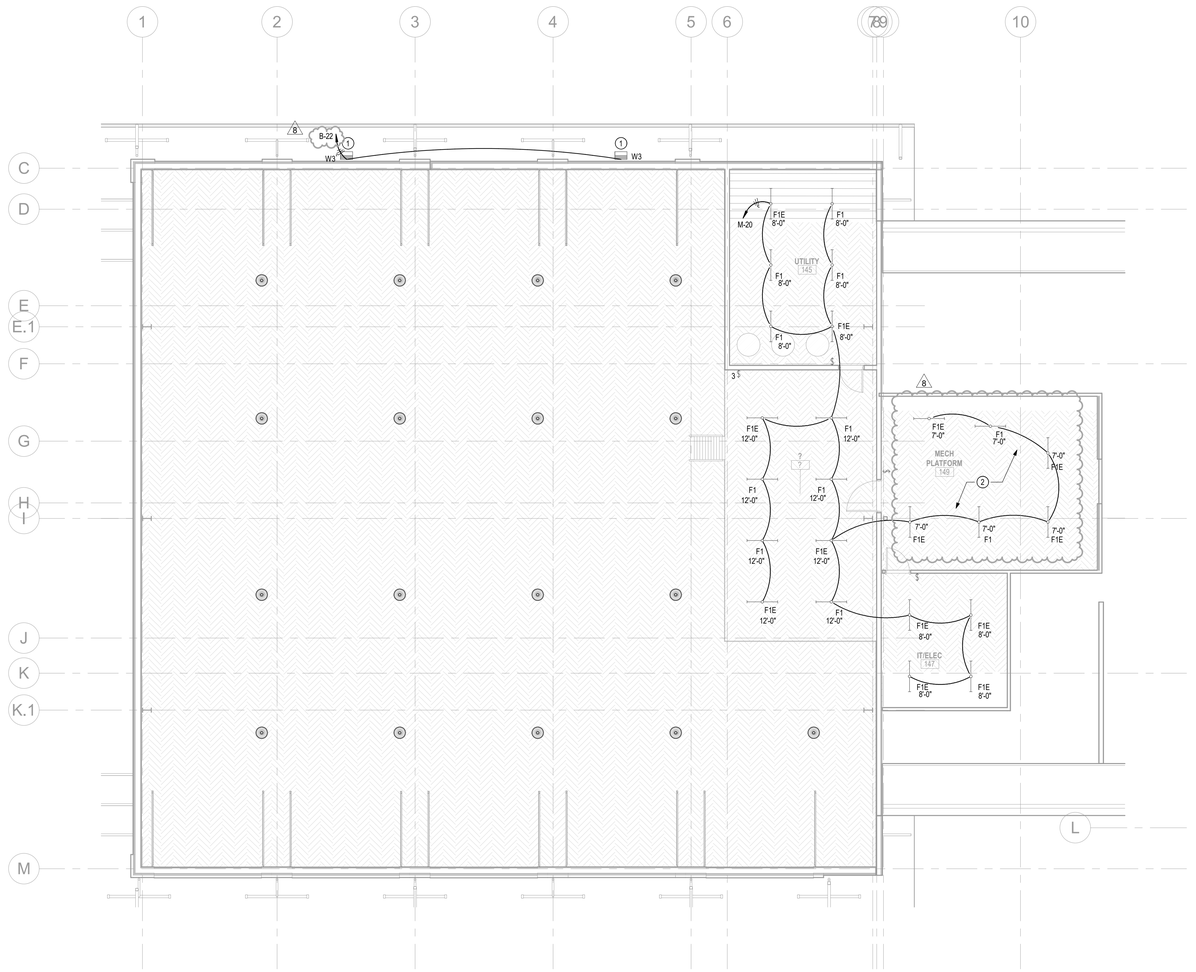
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LIGHTING PLAN - LEVEL ONE

E-101



LIGHTING GENERAL NOTES

A. REFER TO SHEET E-101 FOR LIGHTING GENERAL NOTES

LIGHTING KEYED NOTES

1. FLOOD LIGHT MOUNTED HIGH ON WALL. FIXTURE SHALL BE CONTROLLED BY SPRING WOUND TIMER SWITCH SHOWN ON LEVEL ONE LIGHTING PLAN.
2. COORDINATE FINAL LIGHT FIXTURE LOCATIONS WITH MECHANICAL EQUIPMENT AND DUCTWORK.

1 LIGHTING PLAN - MEZZANINE

1/8" = 1'-0"

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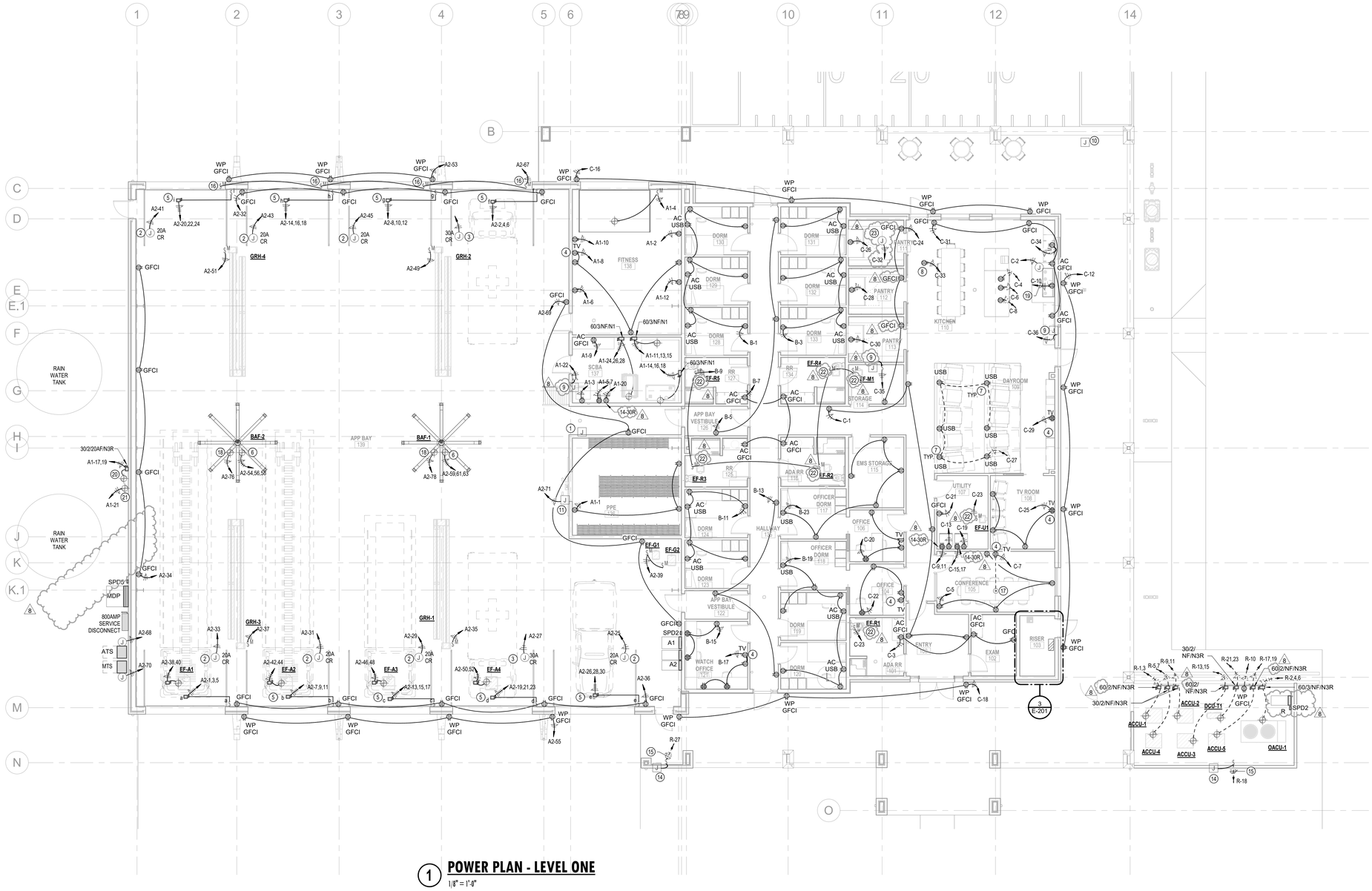
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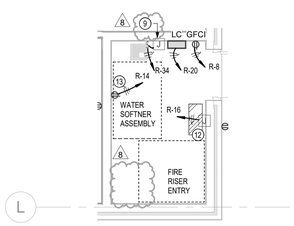
LIGHTING PLAN - MEZZANINE

E-102



1 POWER PLAN - LEVEL ONE

1/8" = 1'-0"



3 POWER PLAN - RISER ROOM

1/4" = 1'-0"

ELECTRICAL GENERAL NOTES APPLY TO ALL POWER PLANS

ELECTRICAL GENERAL NOTES

A. ELECTRICAL DEVICES SHOWN ARE NOT EXACT. ALL DEVICE LOCATIONS SHALL BE VERIFIED WITH ARCHITECTURAL MILLWORK, CASEWORK, AND GENERAL ELEVATION VIEWS.

B. ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT, OUTLET BOXES, JUNCTION BOXES FOR ALL TECHNOLOGY, LOW VOLTAGE, ACCESS CONTROL SECURITY, SURVEILLANCE, AND OTHER DIVISION 27/28 SCOPE. REFER TO DIVISION 27/28 DRAWINGS AND SPECIFICATIONS FOR ALL WORK REQUIRED. OMISSION OF THIS SCOPE FROM DIV 26 SCOPE OF WORK IS PROHIBITED.

C. HVAC AND PLUMBING EQUIPMENT LOCATIONS ARE NOT EXACT, AND THE EXACT POINT OF CONNECTION TO EQUIPMENT MAY VARY. COORDINATE EXACT ROUGH-IN REQUIREMENTS IN FIELD AND WITH FINAL SUBMITTALS FOR ALL DIV. 21/22/23 EQUIPMENT.

D. PROVIDE LABELING OF ALL DEVICES, CONDUIT, PANELS, AND JUNCTION BOXES IN ACCORDANCE WITH ELECTRICAL SPECIFICATIONS.

E. MINIMIZE ROOF PENETRATIONS. WHERE ABLE, ROUTE ALL CONDUIT FOR ROOF MOUNTED EQUIPMENT THROUGH ROOF CURB. CONTRACTOR WILL BE RESPONSIBLE FOR COORDINATING NECESSARY WATER PROOFING AROUND ROOF PENETRATIONS WITH ROOFING INSTALLER.

F. ALL RECEPTACLES LOCATED IN RESTROOMS, JANITOR CLOSETS, MECHANICAL ROOMS, SERVING ELECTRIC DRINKING FOUNTAINS, OR LOCATED WITHIN 6' OF A SINK, LOCATED ABOVE A WET COUNTERTOP OR IN A KITCHEN OR COFFEE BAR SHALL BE GFCI. FEED-THRU GFCI/GFI IS PROHIBITED, ALL GFCI/GFI DEVICES SHALL BE PROVIDED WITH INDIVIDUAL TEST/RESET FEATURES.

G. MULTI-WIRE HOME RUNS SHALL NOT BE ALLOWED. PROVIDE DEDICATED NEUTRALS FOR ALL CIRCUITS. SHARING CONDUIT IS PERMISSIBLE WHERE TOTAL CONDUCTOR AMPACITY DERATING HAS BEEN PERFORMED BY ELECTRICAL CONTRACTOR. THE NEUTRAL IS CONSIDERED CURRENT-CARRYING.

H. ALL RECEPTACLES SHALL BE TAMPER RESISTANT TYPE. CONTRACTOR MAY PROVIDE NON-TAMPER-RESISTANT RECEPTACLES WHERE NOT REQUIRED PER CURRENT NEC ARTICLE 406.

I. LABEL ALL CIRCUITS AT ALL JUNCTION BOXES AND OUTLETS (AS DEFINED BY NEC) WITH TYPE-WRITTEN LABEL IDENTIFYING CIRCUIT ON THE BACK OF DEVICE COVER PLATES OR ON COVER OF JUNCTION BOX. IF A BOX HAS MULTIPLE CIRCUITS WITHIN, LABEL ALL CIRCUITS.

J. CONDUIT AND JUNCTION BOXES IN AREAS WITH EXPOSED STRUCTURE SHALL BE INSTALLED TIGHT TO STRUCTURE (OVERHEAD, WALLS, COLUMNS, ETC.).

ELECTRICAL KEYED NOTES

1. BAY DOOR CONTROL SWITCH BANK LOCATION. COORDINATE EXACT LOCATION WITH ARCHITECT AND DOOR INSTALLER PRIOR TO ROUGH-IN.
2. PROVIDE RETRACTABLE POWER CORD REEL WITH 120V, 20A RECEPTACLE AND 30FT CABLE FURNISHED WITH PI/OT BASE. PROVIDE DUPLEX RECEPTACLE AT COR REEL BASE. FIELD COORDINATE EXACT LOCATION CABLE LENGTH, AND ADDITIONAL REQUIREMENTS WITH ARCHITECT / OWNER PRIOR TO ROUGH-IN. PROVIDE WITH QUICK RELEASE PLUG. REFER TO ELECTRICAL DETAIL.
3. PROVIDE RETRACTABLE POWER CORD REEL WITH 120V, 30A RECEPTACLE AND 30FT CABLE FURNISHED WITH PI/OT BASE. PROVIDE DUPLEX RECEPTACLE AT COR REEL BASE. FIELD COORDINATE EXACT LOCATION CABLE LENGTH, AND ADDITIONAL REQUIREMENTS WITH ARCHITECT / OWNER PRIOR TO ROUGH-IN. PROVIDE WITH QUICK RELEASE PLUG. REFER TO ELECTRICAL DETAIL.
4. PROVIDE RECEPTACLE FOR TV. COORDINATE EXACT MOUNTING HEIGHT AND LOCATION WITH ARCHITECT.
5. PROVIDE ELECTRICAL CONNECTION FOR APPARATUS BAY DOOR CONTROLLER. FIELD COORDINATE EXACT LOCATION, CONTROL WIRING QUANTITIES AND ADDITIONAL REQUIREMENTS WITH DOOR INSTALLER PRIOR TO ROUGH-IN. ROUTE (1) 3/4" CONDUIT WITH CONTROL WIRE TO ASSOCIATED OPEN/CLOSE SWITCH.
6. ELECTRICAL CONNECTION FOR HVLS FAN . COORDINATE INSTALLATION WITH DIVISION 23. PROVIDE CONDUIT FOR LOW VOLTAGE CABLING TO FAN CONTROL SWITCH. CONTROL SWITCH SHALL BE PROVIDED WITH EQUIPMENT.
7. COMBINATION 20AMP / USB-C DUPLEX RECEPTACLE PER SPECIFICATIONS. COORDINATE ROUGH-IN HEIGHT WITH MILLWORK INSTALLER.
8. DEDICATED RECEPTACLE FOR ALERTING SYSTEM ACD. REFER TO WESTNET DRAWINGS FOR FURTHER INFORMATION. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH ALERTING SYSTEM INSTALLER PRIOR TO ROUGH-IN..
9. PROVIDE 120V ELECTRICAL CONNECTION AND DISCONNECT FOR ELECTRIC TRAP PRIMER. COORDINATE ALL ELECTRICAL WIRING AND FINAL LOCATION WITH DIVISION 22 INSTALLER. .
10. (8) ROUTE EMPTY CONDUIT TO IN-GRADE PULL BOX FOR FUTURE USE. PROVIDE WITH PULLSTRING. COORDINATE ROUTING OF UNDERGROUND CONDUIT TO PANEL 'B' LOCATION.
11. PROVIDE 120V ELECTRICAL CONNECTION FOR GAS DETECTION DEVICE. COORDINATE MOUNTING HEIGHT AND ROUGH-IN LOCATION WITH DIVISION 23.
12. PROVIDE 120V ELECTRICAL CONNECTION FOR NITROGEN GAS GENERATOR. COORDINATE MOUNTING HEIGHT AND ROUGH-IN LOCATION WITH DIVISION.
13. PROVIDE 120V ELECTRICAL CONNECTION FOR WATER SOFTENER ASSEMBLY. COORDINATE MOUNTING HEIGHT AND ROUGH-IN LOCATION WITH DIVISION 22.
14. PROVIDE 120V ELECTRICAL CONNECTION FOR BUILDING SIGNAGE. COORDINATE ROUGH-IN AND DISCONNECT LOCATION WITH SIGNAGE INSTALLER.
15. ROUTE CIRCUIT THROUGH LIGHTING CONTACTOR AND BE PHOTOCELL CONTROLLED.
16. PROVIDE 120V ELECTRICAL CONNECTION FOR MOTORIZED DAMPER. COORDINATE ALL WIRING WITH DIVISION 23.
17. (8) RECESSED ACTIVATED 2-GANG FLOORBOX PER SPECIFICATIONS. PROVIDE (1) 3/4" CONDUIT FOR POWER AND (2) SPARE 1-1/4" CONDUIT FOR DATA. CONDUITS SHALL BE ROUTED TO NEAREST WALL. FINAL ROUTING SHALL BE FIELD COORDINATED.
18. PROVIDE 120V ELECTRICAL CONNECTION FOR HVLS FAN. PROVIDE CONTROL WIRE TO LIGHT WALL CONTROLLER. LOCATION OF WALL CONTROLLER SHALL BE FIELD COORDINATED.
19. PROVIDE NORMALLY CLOSED RELAY FOR GAS RANGE CIRCUIT SHUT OFF. RELAY SHALL BE TIED INTO ALERTING SYSTEM APPLIANCE CONTROL DEVICE (ACD) AND SHALL DISCONNECT CIRCUIT WHEN ACD SHUT OFF IS ACTIVATED. COORDINATE ALL CONNECTIONS BETWEEN ACD AND APPLIANCE WITH ALERTING SYSTEM INSTALLER.
20. PROVIDE ELECTRICAL CONNECTION FOR RAIN TANK PUMP CONTROLLER. FIELD COORDINATE PUMP LOCATION AND FINAL ELECTRICAL REQUIREMENTS WITH RAIN TANK PROVIDER PRIOR TO ROUGH-IN.
21. PROVIDE 120V ELECTRICAL CONNECTION FOR PUMP ENCLOSURE HEATER. COORDINATE FINAL ELECTRICAL REQUIREMENTS WITH RAIN TANK PROVIDER PRIOR TO ROUGH-IN.
22. (8) EXHAUST FAN SHALL BE CONTROLLED BY DEDICATED ON/OFF SWITCH. SWITCH SHALL BE LOCATED NEXT TO LIGHT SWITCH(ES) SERVING SPACE.
23. PROVIDE 120V ELECTRICAL CONNECTION FOR REDHAT GAS SHUT OFF VALVE. COORDINATE ROUGH-IN LOCATION AND ALL WIRING BETWEEN SHUT OFF VALVE AND APPLIANCE CONTROL DEVICE WITH ALERTING SYSTEM INSTALLER.

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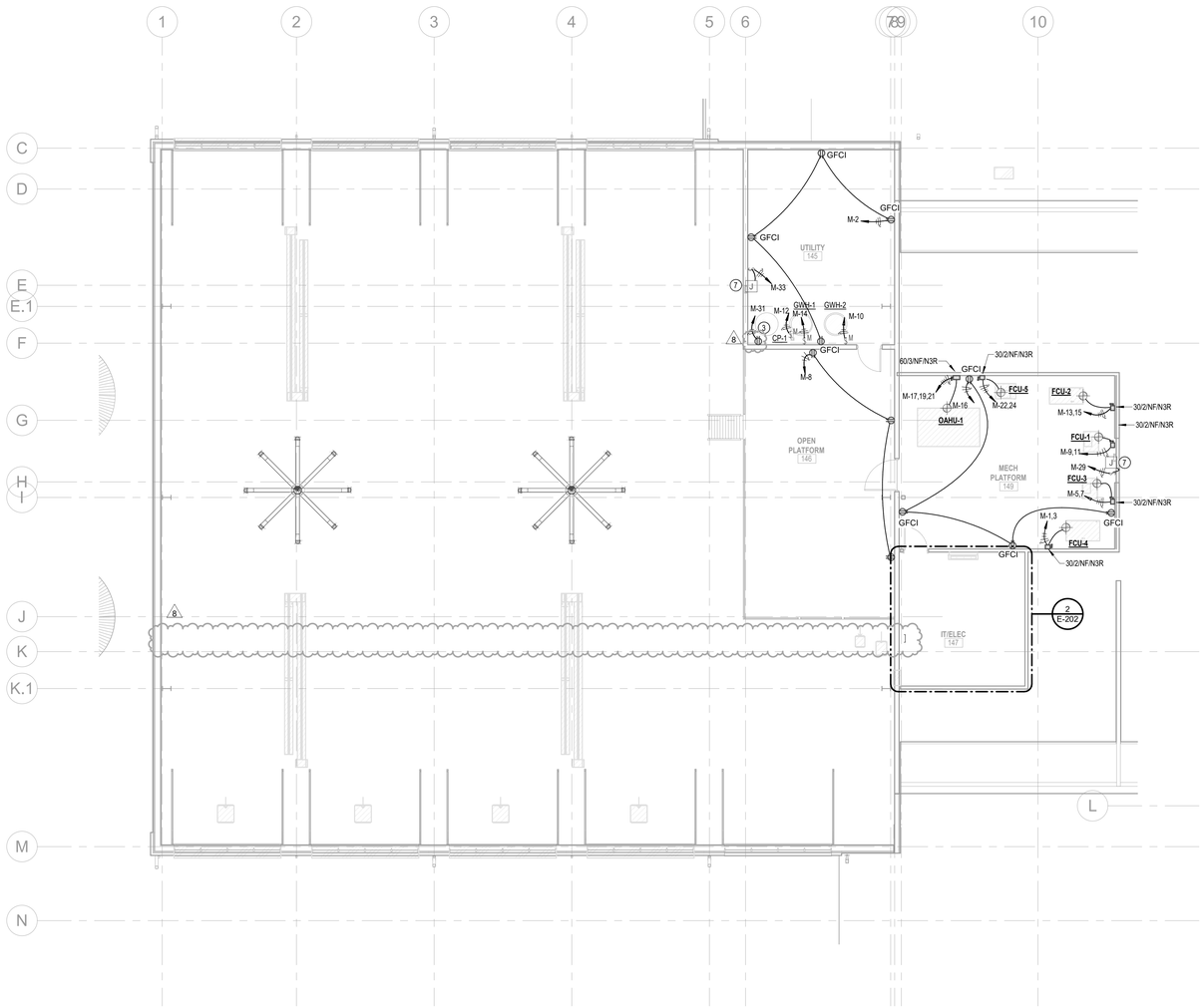
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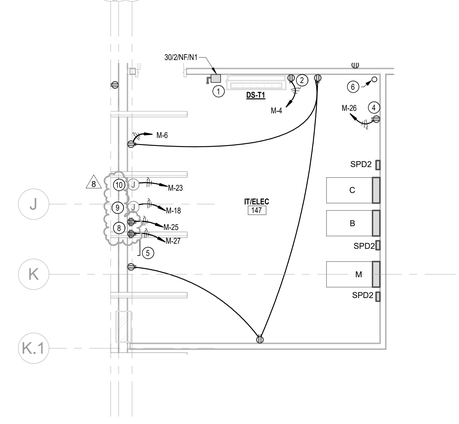
POWER PLAN - LEVEL ONE

E-201



1 POWER PLAN - MEZZANINE

1/8" = 1'-0"



2 POWER PLAN - ENLARGED IT AND ELEC. ROOM

1/4" = 1'-0"

ELECTRICAL GENERAL NOTES

A. REFER TO SHEET E-201 FOR ELECTRICAL GENERAL NOTES

ELECTRICAL KEYED NOTES

1. DUCTELESS UNIT SHALL RECEIVE POWER FROM ASSOCIATED OUTDOOR CONDENSER. COORDINATE CONTROL AND ELECTRICAL WIRING CONNECTIONS BETWEEN THE TWO UNITS WITH DIVISION 23 INSTALLER.
2. PROVIDE RECEPTACLE HIGH ON WALL FOR DUCTLESS UNIT CONDENSER PUMP. COORDINATE ROUGH-IN LOCATION WITH DIVISION 23 INSTALLER.
3. 120V ELECTRICAL CONNECTION FOR OWNER PROVIDED AIR COMPRESSOR. COORDINATE FINAL LOCATION WITH OWNER PRIOR TO ROUGH-IN.
4. DEDICATED RECEPTACLE FOR ALERTING SYSTEM POWER MODULE AND UPS. REFER TO WESTNET DRAWINGS FOR FURTHER INFORMATION. COORDINATE FINAL LOCATION AND MOUNTING HEIGHT WITH ALERTING SYSTEM INSTALLER PRIOR TO ROUGH-IN.
5. NOT USED.
6. 2" EMPTY CONDUIT WITH PULL STRING UP TO ROOF FOR FUTURE ANTENNA. CONDUIT SHALL BE CAPPED ABOVE ROOF. COORDINATE EXACT PENETRATION LOCATION WITH ARCHITECT / OWNER. PROVIDE GROUND BAR WITH A DEDICATED GROUND WIRE TO MAIN GROUND BUS.
7. PROVIDE 120V ELECTRICAL CONNECTION AND DISCONNECT FOR ELECTRIC TRAP PRIMER. COORDINATE ALL ELECTRICAL WIRING AND FINAL LOCATION WITH DIVISION 22 INSTALLER.
8. DEDICATED RECEPTACLES FOR IT RACK EQUIPMENT COORDINATE EXACT LOCATIONS WITH TECHNOLOGY INSTALLER PRIOR TO ROUGH-IN.
9. 120V ELECTRICAL CONNECTION FOR SECURITY PANEL. COORDINATE EXACT LOCATION WITH SECURITY CONSULTANT PRIOR TO ROUGH-IN.
10. 120V ELECTRICAL CONNECTION FOR ACCESS CONTROL PANEL. COORDINATE EXACT LOCATION WITH SECURITY CONSULTANT PRIOR TO ROUGH-IN.

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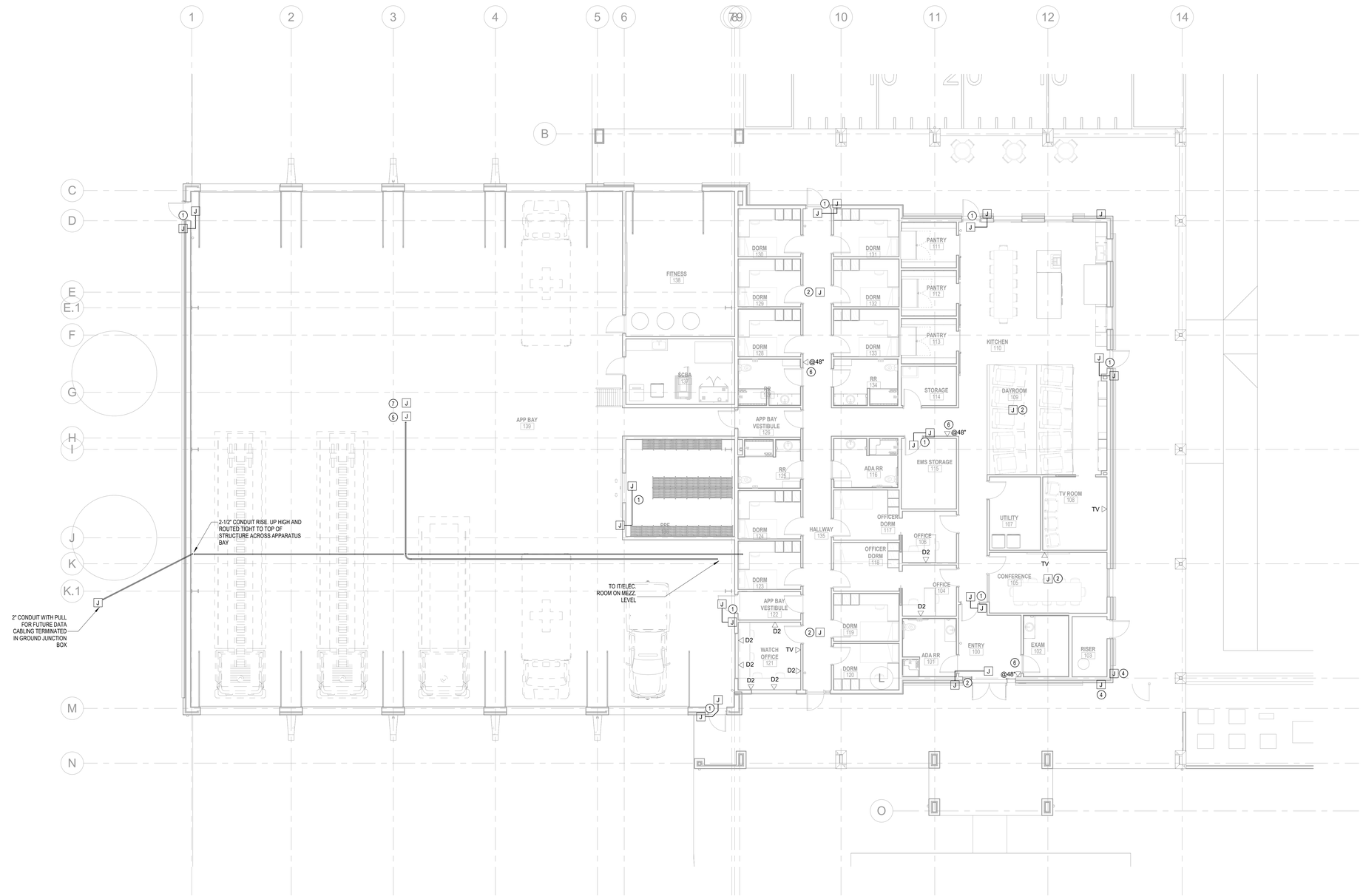
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POWER PLAN - MEZZANINE

E-202



1 TECHNOLOGY ROUGH-IN PLAN

1/8" = 1'-0"

TECHNOLOGY ROUGH-IN KEYED NOTES

1. PROVIDE (1) 3/4" EMT CONDUIT TO JUNCTION BOX ABOVE CEILING. CONDUIT SHALL CONTINUE TO JUNCTION BOX INSIDE, ABOVE DOOR FOR FUTURE. JUNCTION BOX AT EXTERIOR WALL FOR CARD READER, AND TO ELECTRIC DOOR STRIKE. CONDUIT SHALL BE ROUTED BACK TO IT / ELEC. ROOM. COORDINATE ALL ROUGH-IN LOCATIONS AND CONDUIT ROUTING WITH SECURITY CONSULTANT. ALL CABLE TERMINATIONS SHALL BE MADE BY SECURITY CONSULTANT.
2. PROVIDE (1) 3/4" EMT CONDUIT TO JUNCTION BOX ABOVE CEILING. CONDUIT SHALL CONTINUE TO JUNCTION BOX INSIDE, ABOVE DOOR FOR FUTURE. JUNCTION BOX AT EXTERIOR WALL FOR INTERCOM, AND TO ELECTRIC DOOR STRIKE. CONDUIT SHALL BE ROUTED BACK TO IT / ELEC. ROOM. COORDINATE ALL ROUGH-IN LOCATIONS AND CONDUIT ROUTING WITH SECURITY CONSULTANT. ALL CABLE TERMINATIONS SHALL BE MADE BY SECURITY CONSULTANT.
3. PROVIDE JUNCTION BOX AT CEILING FOR WIRELESS ACCESS POINT DEVICE. COORDINATE EXACT LOCATION WITH OTHER TRADES.
4. PROVIDE JUNCTION BOX FOR EXTERIOR MOUNTED CAMERA. COORDINATE EXACT ROUGH-IN LOCATION, AND MOUNTING HEIGHT WITH SECURITY CONSULTANT.
5. PROVIDE SURFACE MOUNTED JUNCTION BOX MOUNTED TO STRUCTURE AND (1) 3/4" CONDUIT FOR WIRELESS ACCESS POINT DEVICE. CONDUIT SHALL BE ROUTED BACK TO IT / ELEC. ROOM.
6. DATA DROP FOR TELEPHONE JACK.
7. PROVIDE (4) DOUBLE GANG JUNCTION BOXES IN LINE, SURFACE MOUNTED TO STRUCTURE WITH (1) 3/4" CONDUIT FOR CAMERA. CONDUIT SHALL BE ROUTED BACK TO IT / ELEC. ROOM.

EMERALD MEP
TX FIRM No. F-24826
PROJECT No. 25018

PROFESSIONAL SEAL

STATE OF TEXAS
M. JACQUELINE CHANG
124987
LICENSED PROFESSIONAL ENGINEER
2026-17-04

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DESIGN TEAM

Architectural
Martinez Architects

Civil
Hill Country Civil

Landscape
Evergreen Landscape Group

Structural
Matrix Structural

MEP
Emerald MEP

Technology
Imagine IT

Alerting
WestNET

STATION #42

Hays County ESD #4

Wimberley, TX 78676

PROJECT No: **MA 25016**
DATE: **20-OCT-2026**

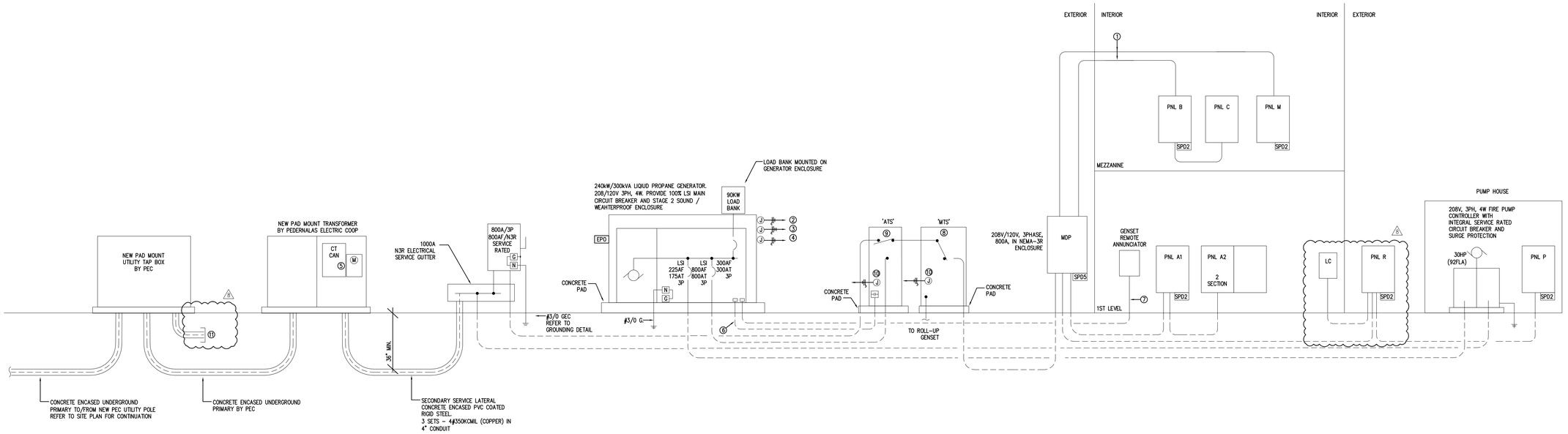
ISSUE

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TECHNOLOGY ROUGH-IN PLAN

E-300



ELECTRICAL ONE-LINE DIAGRAM

NOTE TO SCALE

FEEDER SCHEDULE

COPPER CONDUCTORS				ALUMINUM CONDUCTORS		
AMPERAGE	SETS	CONDUCTOR SIZE	CONDUIT (INCHES)	SETS	CONDUCTOR SIZE	CONDUIT (INCHES)
30A	1	4#10, 1#10 G.	3/4"C	N/A	N/A	N/A
40A	1	4#8, 1#10 G.	1"C	N/A	N/A	N/A
50A	1	4#8, 1#10 G.	1"C	N/A	N/A	N/A
60A	1	4#6, 1#10 G.	1"C	N/A	N/A	N/A
70A	1	4#4, 1#8 G.	1 1/4"C	N/A	N/A	N/A
80A	1	4#4, 1#8 G.	1 1/4"C	N/A	N/A	N/A
90A	1	4#3, 1#8 G.	1 1/4"C	N/A	N/A	N/A
100A	1	4#3, 1#8 G.	1 1/4"C	1	4#1, 1#6 G.	1 1/2"C
125A	1	4#1, 1#6 G.	1 1/2"C	1	4#2/0, 1#4 G.	2"C
150A	1	4#1/0, 1#6 G.	1 1/2"C	1	4#3/0, 1#4 G.	2"C
175A	1	4#2/0, 1#6 G.	2"C	1	4#4/0, 1#4 G.	2 1/2"C
200A	1	4#3/0, 1#6 G.	2"C	1	4#250KCMIL, 1#4 G.	2 1/2"C
225A	1	4#4/0, 1#4 G.	2 1/2"C	1	4#300KCMIL, 1#2 G.	3"C
250A	1	4#250KCMIL, 1#4 G.	2 1/2"C	1	4#350KCMIL, 1#2 G.	3"C
300A	1	4#350KCMIL, 1#4 G.	3"C	1	4#500KCMIL, 1#2 G.	4"C
350A	1	4#500KCMIL, 1#3 G.	3 1/2"C	2	4#4/0, 1#1 G.	2 1/2"C
400A	1	4#600KCMIL, 1#3 G.	4"C	2	4#250KCMIL, 1#1 G.	2 1/2"C
450A	2	4#4/0, 1#2 G.	2 1/2"C	2	4#300KCMIL, 1#1/0 G.	3"C
500A	2	4#250KCMIL, 1#2G.	2 1/2"C	2	4#350KCMIL, 1#1/0 G.	3"C
600A	2	4#350KCMIL, 1#1G.	3"C	2	4#500KCMIL, 1#2/0 G.	4"C
700A	2	4#500KCMIL, 1#1/0G.	4"C	3	4#350KCMIL, 1#3/0 G.	3"C
800A	3	4#350KCMIL, 1#1/0G.	4"C	3	4#400KCMIL, 1#3/0 G.	3 1/2"C
1000A	3	4#500KCMIL, 1#1/2G.	4"C	4	4#350KCMIL, 1#4 G.	3"C

FEEDER SCHEDULE NOTES:

1. ALUMINUM CONDUCTORS SHALL BE COMPRESSION TYPE CONDUCTORS AND SHALL USE PENETROX WITH COMPRESSION TERMINATION FITTINGS.
2. ELECTRICAL CONTRACTOR SHALL PROVIDE THE NUMBER OF LUGS AND PROPER LUG SIZES TO ACCEPT CONDUCTOR SIZES SHOWN.
3. GROUND NOT REQUIRED FOR SERVICE LATERAL.

SURGE PROTECTION DEVICE (SPD) SCHEDULE

MARK	MANUFACTURER	MODEL #	VOLTAGE	PER MODE/PHASE RATING	PHASE	BREAKER SIZE	STT TIER GUIDE CABLE SIZE
SPD2	SOUTHERN TIER TECHNOLOGIES	T45120Y100AWJ2S	208/120V	100/200kA	3	30A/3P	5 #10, 3/4" C.
SPD5	SOUTHERN TIER TECHNOLOGIES	T45120Y125ALAM1C	208/120V	125/250kA	3	60A/3P	5 #6, 1 1/2" C.

*ALL T45 SERIES SPD ENCLOSURES INSTALLED IN FOOD SERVICE AREAS (IE. KITCHENS, SNACK BARS, FOOD LABS, CULINARY ARTS ROOMS AND LIFE SKILLS ROOMS) SHALL BE RECESSED IN THE WALL. PROVIDE RECESSED WALL KIT #RKSS.

Load Analysis - Wimberley FS #42
208 / 120 3 -PHASE, 4 -WIRE — Date: 10/20/2026

DESCRIPTION						NEC	KVA
LIGHTING:							
INTERIOR =	16,981	S.F.	X	1.30	W/S.F	220.12	22.1
EXTERIOR =	3,829	VA					4.8
POWER:							
RECEPTACLES =	16,981	S.F.	X	3 VA/SF	50943 VA	220.44	
First	10,000 V.A.		X	100%	10000 VA		10.0
Remaining	40943 V.A.		X	50%	20472 VA		20.5
				QTY:			
OVERHEAD DOORS (1.5HP)=	1,335	VA		9			12.0
MISCELLANEOUS=	32,880	VA					32.9
KITCHEN =	4,200	VA				220.56	2.7
WASHER EXTRACTOR (5HP) =	6,317	VA					6.3
DRYING CABINET =	7,220	VA					7.2
SCBA (10HP)	13,124	VA					13.1
HVAC:							
COOLING =	53,329	VA					53.3
HEATING =	17,300	VA					0.0
FANS =	16,440	VA					16.4
PLUMBING:							
WATER HEATER =	500	VA					0.5
DRINKING FOUNTAIN =	500	VA					0.5
CIRCULATING PUMP =	500	VA					0.5
PUMPS:							
FIRE PUMP =	30	HP	92 F.L.A.				33.2
JOCKEY PUMP =	5	HP	17.5 F.L.A.				12.6
25% OF LARGEST MOTOR =	8,300	VA					8.3
FUTURE BUILDING =	57,760	VA					57.8
						TOTAL =	314.7
						FIRE PUMP:	33.2
						SERVICE GUTTER:	281.5
SQUARE FOOTAGE 16,981						TOTAL AMPS:	873.7
						SERVICE SIZE:	1000.0
						SPARE AMPACITY:	126.3

ONE-LINE DIAGRAM GENERAL NOTES:

A. MANUFACTURER OF ELECTRICAL GEAR SHALL PROVIDE A COORDINATION STUDY FOR THE ENTIRE ELECTRICAL SYSTEM IN ORDER TO SET BREAKERS. REFER TO SPECIFICATIONS. MANUFACTURER SHALL ALSO PROVIDE A FAULT CIRCUIT STUDY FOR THE ENTIRE ELECTRICAL SYSTEM IN ORDER TO SELECT INTERRUPTING RATINGS OF ALL CIRCUIT BREAKERS, DISTRIBUTION PANELBOARDS, PANELBOARDS, ETC. A FULLY RATED SYSTEM SHALL BE USED. CONTRACTOR SHALL SUBMIT STUDIES FOR REVIEW BEFORE SUBMITTING ELECTRICAL DISTRIBUTION EQUIPMENT FOR REVIEW. REFER TO SPECIFICATION SECTION 26 05 73.

B. ALL CONDUCTORS SHALL BE COPPER UNLESS OTHERWISE SCHEDULED.

C. CONTRACTOR SHALL INSTALL FEEDERS BASED ON THE OVERCURRENT DEVICE RATING UNLESS OTHERWISE NOTED. CONTRACTOR SHALL REFER TO THE FEEDER SCHEDULE TO OBTAIN AND INSTALL THE FEEDERS REQUIRED.

D. SERVICE EQUIPMENT SHALL BE LEGIBLY MARKED IN THE FIELD WITH THE MAXIMUM AVAILABLE FAULT CURRENT AT THE TIME OF INSTALLATION AND CALCULATION. THE LABEL SHALL BE 2" X 3" IN SIZE AND SHALL BE BLUE LETTERING ON A CONTRASTING BACKGROUND. THIS LABEL SHALL ALSO INCLUDE THE DATE OF THE CALCULATION.

E. PRIOR TO INSTALLATION OF UNDERGROUND FEEDERS, THE ELECTRICAL CONTRACTOR SHALL SUBMIT AN UNDERGROUND ROUTING PLAN TO THE ENGINEER OF RECORD., INDICATING THE EXACT ROUTING PATH FOR ALL UNDERGROUND CONDUIT. INDICATE STUB-UP LOCATIONS, SIZE AND QUANTITY OF CONDUIT. ALL ELECTRICAL PANELS AND EQUIPMENT SHALL BE SHOWN ON THIS PLAN FOR REFERENCE OF CONDUIT TERMINATION.

F. CONTRACTOR SHALL PROVIDE ALL EQUIPMENT AND CONDUIT AS REQUIRED BY CENTERPOINT ENERGY FOR METERING PURPOSES.

ONE-LINE DIAGRAM KEYED NOTES:

1. CONDUIT SHALL BE ROUTED AS HIGH AS POSSIBLE ACROSS APPARATUS BAY TO PANEL LOCATION. COORDINATE ROUTING WITH OTHER TRADES.
2. 120V JUNCTION BOX CONNECTION TO GENERATOR'S ALTERNATOR STRIP HEATER. FIELD COORDINATE EXACT LOCATION AND ADDITIONAL MANUFACTURER'S REQUIREMENTS WITH GENERATOR INSTALLER PRIOR TO ROUGH-IN.
3. 208V/1P JUNCTION BOX CONNECTION TO GENERATOR'S COOLANT HEATER. FIELD COORDINATE EXACT LOCATION AND ADDITIONAL MANUFACTURER'S REQUIREMENTS WITH GENERATOR INSTALLER PRIOR TO ROUGH-IN.
4. 120V JUNCTION BOX CONNECTION FOR GENERATOR BATTERY CHARGER. FIELD COORDINATE EXACT LOCATION AND ADDITIONAL MANUFACTURER'S REQUIREMENTS WITH GENERATOR INSTALLER PRIOR TO ROUGH-IN.
5. CONTRACTOR SHALL PROVIDE METER AND CT ENCLOSURE. UTILITY EQUIPMENT SHALL BE MOUNTED TO PAD MOUNT TRANSFORMER (△1) PER PEC STANDARDS.
6. PROVIDE 1" EMPTY CONDUIT WITH PULL STRING TO 'ATS' FOR GENERATOR CONTROLS.
7. PROVIDE 1" EMPTY CONDUIT WITH PULL STRING TO GENERATOR ANNUNCIATOR. REFER TO POWER PLANS FOR LOCATION.
8. (△5) 800AMP, 4P, 4W MANUAL TRANSFER SWITCH 'MTS' WITH 65,000 AIC RATING. PROVIDE WITH NEMA 3R ENCLOSURE. 'MTS' SHALL BE PROVIDED WITH INTEGRAL QUICK CONNECTIONS.
9. (△5) 800AMP, 4P, 4W AUTOMATIC TRANSFER SWITCH 'ATS' WITH 65,000 AIC RATING. PROVIDE WITH NEMA 3R ENCLOSURE.
10. 120V JUNCTION BOX CONNECTION TO TRANSFER SWITCH ANTI-CONDENSATE STRIP HEATER. FIELD COORDINATE EXACT LOCATION AND ADDITIONAL MANUFACTURER'S REQUIREMENTS WITH GENERATOR INSTALLER PRIOR TO ROUGH-IN. REFER TO MEP SITE PLAN FOR ASSIGNED CIRCUIT.
11. (△6) STUB (3) 3" CONDUIT IN CONCRETE ENCASED DUCTBANK OUT PAST FOOTPRINT OF TAP BOX PAD FOR FUTURE BUILDING. CAP CONDUITS AND STUB OUT REBAR FOR FUTURE EXTENSION OF DUCTBANK. STAKE THE TERMINATION LOCATION.

EMERALD MEP
TX FIRM No. F-24826
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PROFESSIONAL SEAL

STATE OF TEXAS — M. JACQUELINE CHANG — 124987 — LICENSED PROFESSIONAL ENGINEER — 2026-17-04

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STATION #42
Hays County ESD #4
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PROJECT No: **MA 25016**
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ELECTRICAL ONE-LINE DIAGRAM

E-401

STANDARD SEQUENCE OF OPERATIONS

ROOM TYPE	OCCUPANCY SENSOR					TIME SWITCH			LT REDUCT		MANUAL CONTROL					SEQUENCE OF OPERATION
	AUTO ON	MANUAL ON (VACANCY)	AUTO OFF (20MIN MAX)	PARTIAL OFF AT NORMAL HOURS	AUTO OFF AFTER HOURS (30MIN MAX)	TIME ON	TIME OFF	ASTRONOMIC OR PHOTOCELL ON/OFF	AUTO STEP CONTROL WITH OFF	AUTO CONTINUOUS DIM WITH OFF	MANUAL BI-LEVEL REDUCTION CONTROL	MANUAL CONTINUOUS DIM CONTROL	MANUAL ON/OFF SWITCH	MANUAL DIMMER SWITCH	DISPLAY, ACCENT, TASK CONTROL	
Entry	100%	•	20 MIN						•		•					Auto On 100%. Occupancy sensor Auto Off; Manual control.
Conference Room	50%	•	20 MIN						•		•		•			Auto On 50%; Occupancy sensor Auto Off; Manual control and ≥50% light reduction with two on/off controls; use dimmer switch.
Pantry	50%		20 MIN						•		•					Auto On 50%; Occupancy sensor Auto Off; Manual control and ≥50% light reduction with two on/off controls.
ADA Restroom	100%		20 MIN								•					Auto On 100%. Occupancy sensor Auto Off; Manual control.
Storage Room	50%		20 MIN						•		•					Auto On 50%; Occupancy sensor Auto Off; Manual control and ≥50% light reduction with two on/off controls.
Fitness Room	50%	•	20 MIN						•		•					Auto On 50%; Occupancy sensor Auto Off; Manual control and ≥50% light reduction with two on/off controls.
Building Façade / Landscape / Flag Pole						DAWN	DUSK	•								Dusk Auto On with astro time switch or photocell; Dawn Auto Off with astro time switch or photocell.
Parking / Site Lighting						DAWN	DUSK	•								Dusk Auto On with astro time switch or photocell; Dawn Auto Off with astro time switch or photocell.

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•= Designation for code compliant default control design.

LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURE	MODEL	MOUNTING	NO. OF LAMPS	LAMPS	VOLTAGE	WATTAGE	DESCRIPTION
B	METALUX	22CBRK-XX-UNV-L840-DC1-WPS-U	RECESSED	1	4K LED	120 V	27 VA	2X4 LED TROFFER PANEL FIXTURE
BE	METALUX	22CBRK-XX-UNV-L840-DC1-WPS-U-EL14W	RECESSED	1	4K LED	120 V	27 VA	SAME AS 'B1' EXCEPT WITH BATTERY BACK UP
CFL	HUNTER	ANISTEN 44IN FINISH (52490)	CEILING	1	LED	120 V	28 VA	CEILING FAN WITH LIGHT KIT
D1	HALO	HSICAT /518XX TRIM	RECESSED	1	4K LED	120 V	17 VA	6" CAN HOUSING. FIXTURE SHALL UTILIZE E26 SOCKET ADAPTOR. PROVIDE WITH 4000K LED BULB
D2	HALO	HSICAT / 5145WH SHOWER TRIM / XX	RECESSED	1	4K LED	120 V	17 VA	6" CAN HOUSING. FIXTURE SHALL UTILIZE E26 SOCKET ADAPTOR. PROVIDE WITH 4000K LED BULB
D3	HALO	HSICAT / 5165XX TRIM / XX	RECESSED	1	27K LED	120 V	17 VA	6" CAN HOUSING. PROVIDE WITH SLOPE ADAPTOR. FIXTURE SHALL UTILIZE E26 SOCKET ADAPTOR. PROVIDE WITH 2700K LED BULB
D4	HALO	HSICAT/ 5054SNS TRIM	RECESSED	1	27K LED	120 V	17 VA	6" CAN HOUSING. FIXTURE SHALL UTILIZE E26 SOCKET ADAPTOR. PROVIDE WITH 2700K LED BULB
EM1	SURE-LITES	APS2SQLED30	WALL	1	LED	120 V	2 VA	EMERGENCY LIGHT, TWO SQUARE LED HEADS
EM2	SURE-LITES	AEL2-31-FINISH-SD	WALL	1	LED	120 V	2 VA	NORMALLY OFF, EMERGENCY ONLY LIGHT FIXTURE
F1	METALUX	4SNX-57SL-FDL-UNV-L940-CD-1-U / AYC-CHAINSET-BLK-U	SURFACE	1	4K LED	120 V	40 VA	4FT LED STRIP FIXTURE. PROVIDE WITH SUSPENSION KIT
F1E	METALUX	4SNX-57SL-FDL-UNV-L940-CD-1-14ELW-U / AYC-CHAINSET-BLK-U	SURFACE	1	4K LED	120 V	40 VA	SAME AS 'F1' EXCEPT WITH BATTERY BACK UP
F2E	METALUX	4SNX-57SL-FDL-UNV-L940-CD-1-BLK-U-EL14W	SURFACE	1	4K LED	120 V	40 VA	4FT LED STRIP FIXTURE WITH BATTERY BACK UP
H	METALUX	EZBY-1830C3-MV-BLK-LOW-4000K	SUSPENDED	1	4K LED	120 V	152 VA	ROUND HIGH BAY FIXTURE
HE	METALUX	EZBY-1830C3-MV-BLK-LOW-4000K / EBP-RM40R	SUSPENDED	1	4K LED	120 V	152 VA	SAME AS 'H' EXCEPT WITH BATTERY BACK UP
L	NULITE	RR4-D-ST-F-XX-L-40-UNV-D-1-T	SURFACE	1	4K LED	120 V	58 VA	36" SURFACE MOUNT HEX FIXTURE
R	WAC	W-LED101-30-WT	RECESSED	1	30K LED	120 V	10 VA	DORM CORRIDOR STEP LIGHTS
S1	MCGRAW-EDISON	GALN-SB4B-727-U-T4FT-BLKDK-HSS	POLE	1	27K LED	208 V	147 VA	SINGLE FIXTURE HEAD POLE LIGHT WITH HOUSE SIDE SHIELD. PROVIDE WITH KW INDUSTRIES ROUND STRAIGHT POLE WITH BASE COVER #RSP20-4-7-BLACK-DM10-BC
S2	MCGRAW-EDISON	GALN-SB4B-727-U-T2-BLACK-HSS	POLE	1	27K LED	208 V	147 VA	SINGLE FIXTURE HEAD POLE LIGHT WITH HOUSE SIDE SHIELD. PROVIDE WITH KW INDUSTRIES ROUND STRAIGHT POLE WITH BASE COVER #RSP20-4-7-BLACK-DM10-BC
W1E	MCGRAW-EDISON	GKO-PB2A-827-U-T3-BK-CBP-BPC120V-PBHSS	WALL	1	27K LED	120 V	48 VA	WALL PACK FIXTURE WITH BATTERY BACK UP. HOUSE SIDE SHIELD, AND PHOTOSENSOR ACCESSORY
W2	FC LIGHTING	FCC400-14-WM-UNV-927-10L-BKE-25-LD-CV	WALL	1	27K LED	120 V	12 VA	DECORATIVE WALL SCONCE
W2E	FC LIGHTING	FCC400-14-WM-UNV-927-10L-BKE-25-LD-CV	WALL	1	27K LED	120 V	12 VA	SAME AS 'W2' EXCEPT WITH REMOTE BATTERY PACK
W3	LUMARK	NHRS5G-S-BK/ NHRS5-SK-BK	WALL	1	LED	120 V	24 VA	WALL MOUNT LED FLOOD LIGHT WITH SLIPFITTER KIT
X	EVENLITE	SOVII-ALC-G-1C-BK-RC-UC-OPTIONS	CEILING	1	LED	120 V	5 VA	CLEAR LED EXIT SIGN WITH RED LETTERING. EXIT SIGNS IN APPARATUS BAY SHALL BE WALL MOUNTED

8

LIGHTING SCHEDULES NOTE:
1. FOR ALL LIGHTING INQUIRIES CONTACT MICHELLE GRUBAT PFEFFERON-SCHABOK AND ASSOCIATES (PSA) - MCRUZ@PSALIGHTING.COM
8 2. PROVIDE KW INDUSTRIES ROUND STRAIGHT POLE WITH BASE COVER #RSP20-4-7-BLACK-DM2180-BC FOR TWIN HEAD TYPE 'S1' FIXTURE. REFER TO SITE PLAN FOR LOCATION.

LIGHTING CONTROLS DEVICE SCHEDULE

TYPE	DESCRIPTION	COMMENTS
S S^3 S^4	LINE VOLTAGE SWITCH.	'3' INDICATES THREE WAY SWITCHING. '4' INDICATES FOUR WAY SWITCHING.
S^{3D}	LINE VOLTAGE DIMMER WITH 3-WAY SWITCH	3-WAY DIMMER FOR USE IN DAYROOM / KITCHEN AREA. PROVIDE ON/OFF, SLIDE DIMMER COMBINATION. COORDINATE DIMMING TYPE WITH FINAL FIXTURE AND LAMP SELECTION TO ENSURE COMPATIBILITY
S^{DR}	LINE VOLTAGE DIMMER SWITCH	DIMMER FOR USE IN TV ROOM. PROVIDE ON/OFF, SLIDE DIMMER COMBINATION. COORDINATE DIMMING TYPE WITH FINAL FIXTURE AND LAMP SELECTION TO ENSURE COMPATIBILITY
S^{MC}	LINE VOLTAGE MOMENTARY CONTACT SWITCH.	
S^{T}	LINE VOTAGE SPRING WOUND TIMER SWITCH.	RATED FOR 120/277VAC. USER PROGRAMMABLE FOR 0MIN-4HR TIME-OUT SETTINGS.
S^{OC1}	LINE VOLTAGE WALL MOUNT DUAL TECHNOLOGY OCCUPANCY SENSOR	SENSOR SHALL BE SET TO VACANCY MODE
S^{OC2}	LINE VOLTAGE WALL MOUNT DUAL TECHNOLOGY OCCUPANCY SENSOR	SENSOR SHALL BE SET TO OCCUPANCY MODE
S^{LV}	LOW VOLTAGE MANUAL CONTROL.	CONNECT TO POWER PACK OR ROOM CONTROLLER IF OCCUPANCY SENSORS ARE INDICATED ON PLAN. PROVIDE MULTI-BUTTON SWITCH AS REQUIRED PER SWITCH LEGS SHOWN ON PLANS.
S^{D}	LOW VOLTAGE SWITCH WITH 0-10V DIMMER	PROVIDE MULTI-BUTTON SWITCH AS REQUIRED PER SWITCH LEGS SHOWN ON PLANS. PROVIDE POWER PACKS OR ROOM CONTROLLERS AS REQUIRED.
OC1	CEILING MOUNTED DUAL TECH OCCUPANCY SENSOR.	SET TO VACANCY MODE. PROVIDE POWER PACKS AS NEEDED.
OC2	CEILING MOUNTED DUAL TECH OCCUPANCY SENSOR.	SET TO OCCUPANCY MODE. PROVIDE POWER PACKS AS REQUIRED.

NOTES:
1. GREENGATE IS THE BASIS OF DESIGN.
2. THE LIGHTING CONTROLS SCHEDULED ARE THE BASIS OF DESIGN. IT IS NOT INTENDED TO LIMIT COMPETITION FROM EQUAL MANUFACTURERS. ALL BIDDERS SHALL SUBMIT THEIR PROPOSED LIGHTING CONTROLS IN SUBMITTAL FORM A MINIMUM OF 10 BUSINESS DAYS PRIOR TO BID DATE FOR REVIEW. APPROVED LIGHTING CONTROL SYSTEMS WILL BE ISSUED IN AN ADDENDUM.

EMERALD MEP
TX FIRM No. F-24826
PROJECT No. 25018

PROFESSIONAL SEAL

STATE OF TEXAS
M. JACQUELINE CHANG
124987
LICENSED
PROFESSIONAL ENGINEER
2026-11-04

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LIGHTING SCHEDULES

E-501

Panelboard MDP

8 42000 AIC Rating — X New — Existing

120/208 Wye Volt, 3 Phase, 4 Wire — 1 Section — Type 3R -Nema Rating — Mains Type: MCB — 800 A MCB — 800 A BUS (Copper) — ISO. GRND. BUS — X Single — Double — Feed - Thru — Mounting — X Surface — Flush

Note	Load...	CKT	Type	Description	Wire	CB	CKT	CB	Wire	Description	Type	Load...	N...
	86554 VA	1 2	Spare	A1	600	400 A	3 4	200 A	3/0	B	Other; Spare ...	43176 VA	
		5 6					7 8						
	17655 VA	9 10	Spare ; L; R; SP;...	M	1/0	150 A	11 12	225 A	350	R	Spare ; L; R; SP;...	62260 VA	
	0 VA	13 14	--	Spare		20 A	15 16	--		Space	--	0 VA	
	0 VA	17 18	--	Spare		20 A	19 20	--		Space	--	0 VA	
	0 VA	21 22	--	Spare		20 A	23 24	--		Space	--	0 VA	
	0 VA	25 26	--	Spare		20 A	27 28	60 A	6	SPD5	SP	0 VA	
	57760 VA	29 30	SP	FUTURE BUILDING	3/0	200 A	31 32	--		Space	--	0 VA	
		33 34					35 36						
		37 38					39 40	30 A	10	SPD2	SP	0 VA	
		41 42											

N.E.C. (2020)	Load Type	Conn.	Fct.	Diversity	N.E.C.(2020)	Load Type	Conn.	Fct.	Diversity
220.44	(R)Receptacle	51906 VA	59.63%	30953 VA	210.20(a)	(L)Lighting	7826 VA	125.00%	9783 VA
220.56	(K)Kitchen	5700 VA	65.00%	3705 VA		(EL)Ext. Ltg.	3405 VA	125.00%	4256 VA
220.60	(C)Cooling	53329 VA	100.00%	53329 VA	620.14	(E)Elevators			
220.60	(H)Heating	17300 VA	100.00%	0 VA		(WH)Wat. Htr.			
220.60	(F)Fans	16440 VA	100.00%	16440 VA	220.5	(MT)Lrg. Motor			
	(M)Misc.	68981 VA	100.00%	68981 VA		(SP)Sub Pnl.	57760 VA	100.00%	57760 VA
Total Connected Load:		282665 VA	VA =	785 A	Location of Panel: EXTERIOR				
Total Load (Diversified):		245229 VA	VA =	681 A					

Panelboard A1

8 22000 AIC Rating — X New — Existing

120/208 Wye Volt, 3 Phase, 4 Wire — 1 Section — Type 3R -Nema Rating — Mains Type: MCB — 400 A MCB — 400 A BUS (Copper) — ISO. GRND. BUS — X Single — Double — Feed - Thru — Mounting — X Surface — Flush

NOTE	LOAD (VA)	TYPE	DESCRIPTION	WIRE	CB	CKT	CB	WIRE	DESCRIPTION	TYPE	LOAD (VA)	NOTE
	540 VA	R	R - PIPE	12	20 A	1 2	20 A	12	R - EXERCISE MACHINE	R	180 VA	
1	180 VA	R	R - ICE MACHINE	12	20 A	3 4	20 A	12	FITNESS ROLL UP DOOR	M	1680 VA	
	2000 VA	R	R - DRYER	10	30 A	5 6	20 A	12	R - EXERCISE MACHINE	R	180 VA	
						7 8	20 A	12	R - FITNESS	R	720 VA	
	180 VA	R	R - SCBA	12	20 A	9 10	20 A	12	R - EXERCISE MACHINE	R	180 VA	
	11624 VA	M	SCBA	6	60 A	11 12	20 A	12	R - EXERCISE MACHINE	R	180 VA	
						13 14						
	3415 VA	M	PUMP CONTROLLER	12	20 A	15 16	35 A	8	DRYING CABINET	M	9000 VA	
						17 18						
	900 VA	H	PUMP HEATER	12	20 A	19 20	20 A	12	R - WASHER	R	180 VA	1
	0 VA	--	Spare	12	20 A	21 22	20 A	12	ELEC. TRAP PRIMER	M	180 VA	
	0 VA	--	Spare	12	20 A	23 24						
	0 VA	--	Spare	12	20 A	25 26	35 A	8	EXTRACTOR	M	6317 VA	
	0 VA	--	Spare	12	20 A	27 28						
	0 VA	--	Spare	12	20 A	29 30	--	12	Space	--	0 VA	
	0 VA	--	Spare	12	20 A	31 32	--	12	Space	--	0 VA	
	0 VA	--	Spare	12	20 A	33 34	--	12	Space	--	0 VA	
	0 VA	--	Spare	12	20 A	35 36	--	12	Space	--	0 VA	
	48918 VA	Spare ; L; R; F; E...	A2	4/0	225 A	37 38	30 A	10	SPD2	SP	0 VA	
						39 40						
						41 42						

N.E.C. (2020)	Load Type	Conn.	Fct.	Diversity	N.E.C.(2020)	Load Type	Conn.	Fct.	Diversity
220.44	(R)Receptacle	14140 VA	85.36%	12070 VA	210.20(a)	(L)Lighting	3320 VA	125.00%	4150 VA
220.56	(K)Kitchen					(EL)Ext. Ltg.	147 VA	125.00%	184 VA
220.60	(C)Cooling			0 VA	620.14	(E)Elevators			
220.60	(H)Heating	900 VA	100.00%	900 VA		(WH)Wat. Htr.			
220.60	(F)Fans	16356 VA	100.00%	16356 VA	220.5	(MT)Lrg. Motor			
	(M)Misc.	51691 VA	100.00%	51691 VA		(SP)Sub Pnl.	0 VA	Not Computed	0 VA
Total Connected Load:		86554 VA	VA =	240 A	Location of Panel: APP BAY 139				
Total Load (Diversified):		85351 VA	VA =	237 A					

Panelboard A2

8 22000 AIC Rating — X New — Existing

120/208 Wye Volt, 3 Phase, 4 Wire — 2 Section — Type 3R -Nema Rating — Mains Type: MCB — 225 A MCB — 225 A BUS (Copper) — ISO. GRND. BUS — Single — X Double — Feed - Thru — Mounting — X Surface — Flush

Note	Load...	Type	Description	Wire	CB	CKT	CB	Wire	Description	Type	Load...	N...
	1335 VA	M	OVERHEAD DOOR	12	15 A	1 2	15 A	12	OVERHEAD DOOR	M	1335 VA	
						3 4						
						5 6						
	1335 VA	M	OVERHEAD DOOR	12	15 A	7 8	15 A	12	OVERHEAD DOOR	M	1335 VA	
						9 10						
						11 12						
	1335 VA	M	OVERHEAD DOOR	12	15 A	13 14	15 A	12	OVERHEAD DOOR	M	1335 VA	
						15 16						
						17 18						
	1335 VA	M	OVERHEAD DOOR	12	15 A	19 20	15 A	12	OVERHEAD DOOR	M	1335 VA	
						21 22						
						23 24						
	500 VA	R	20A CORD REEL	10	20 A	25 26	15 A	12	OVERHEAD DOOR	M	1335 VA	
	900 VA	R	30A CORD REEL	10	30 A	27 28						
	500 VA	R	20A CORD REEL	10	20 A	29 30						
	500 VA	R	20A CORD REEL	10	20 A	31 32	20 A	12	R - APPARATUS BAY	R	720 VA	
	500 VA	R	20A CORD REEL	10	20 A	33 34	20 A	12	R - APPARATUS BAY	R	720 VA	
	225 VA	M	GRH-1	12	15 A	35 36	20 A	12	R - APPARATUS BAY	R	900 VA	
	225 VA	M	GRH-3	12	15 A	37 38	25 A	12	EF-A1	F	2496 VA	
	1392 VA	F	EF-G1, G2	12	15 A	39 40						
	500 VA	R	20A CORD REEL	10	20 A	41 42	25 A	12	EF-A2	F	2496 VA	
	500 VA	R	20A CORD REEL	10	20 A	43 44						
	500 VA	R	20A CORD REEL	10	20 A	45 46	25 A	12	EF-A3	F	2496 VA	
	900 VA	R	30A CORD REEL	10	30 A	47 48						
	225 VA	M	GRH-2	12	15 A	49 50	25 A	12	EF-A4	F	2496 VA	
	225 VA	M	GRH-4	12	15 A	51 52						
	540 VA	R	R - EXTERIOR	12	20 A	53 54	20 A	12	BAF-2	F	2490 VA	
	720 VA	R	R - EXTERIOR	12	20 A	55 56						
	1368 VA	L	L - APPARATUS BAY	12	20 A	57 58						
	2490 VA	F	BAF-1	12	20 A	59 60	20 A	12	GEN. STRIP HEATER	M	1000 VA	
						61 62			GEN. BATT. CHARGER	M	1000 VA	
						63 64	20 A	12	GEN. COOLANT HEATER	M	2000 VA	
	1270 VA	L	L - APPARATUS BAY	12	20 A	65 66						
	200 VA	M	MOTORIZED DAMPERS	12	20 A	67 68	20 A	12	ATS HEATER	M	1000 VA	
	720 VA	R	R - APPARATUS BAY	12	20 A	69 70	20 A	12	MTS HEATER	M	1000 VA	
	360 VA	M	GAS DETECTION DEVICE	12	20 A	71 72	20 A	12	L - FIELD POLE LIGHT	EL	147 VA	
	10 VA	L	L - EXIT SIGNS	12	20 A	73 74						
	232 VA	L	L - FITNESS ROOM	12	20 A	75 76	20 A	12	BAF-2 LIGHT	L	220 VA	
	0 VA	--	Spare	12	20 A	77 78	20 A	12	BAF-1 LIGHT	L	220 VA	
	0 VA	--	Spare	12	20 A	79 80	--		Space	--	0 VA	
	0 VA	--	Spare	12	20 A	81 82	--		Space	--	0 VA	
	0 VA	--	Spare	12	20 A	83 84	--		Space	--	0 VA	

N.E.C. (2020)	Load Type	Conn.	Fct.	Diversity	N.E.C.(2020)	Load Type	Conn.	Fct.	Diversity
220.44	(R)Receptacle	9620 VA	100.00%	9620 VA	210.20(a)	(L)Lighting	3320 VA	125.00%	4150 VA
220.56	(K)Kitchen					(EL)Ext. Ltg.	147 VA	125.00%	184 VA
220.60	(C)Cooling			0 VA	620.14	(E)Elevators			
220.60	(H)Heating			0 VA		(WH)Wat. Htr.			
220.60	(F)Fans	16356 VA	100.00%	16356 VA	220.5	(MT)Lrg. Motor			
	(M)Misc.	19475 VA	100.00%	19475 VA		(SP)Sub Pnl.			
Total Connected Load:		48918 VA	VA =	136 A	Location of Panel: APP BAY 139				
Total Load (Diversified):		49785 VA	VA =	138 A					

Panelboard B

8 22000 AIC Rating — X New — Existing

120/208 Wye Volt, 3 Phase, 4 Wire — 1 Section — Type 1 -Nema Rating — Mains Type: MCB — 200 A MCB — 225 A BUS (Copper) — ISO. GRND. BUS — X Single — Double — Feed - Thru — Mounting — X Surface — Flush

NOTE	LOAD (VA)	TYPE	DESCRIPTION	WIRE	CB	CKT	CB	WIRE	DESCRIPTION	TYPE	LOAD (VA)	NOTE
	1620 VA	R	R - DORMS	12	20 A	1 2	20 A	12	L - DORMS / OFFICES	Oth...	586 VA	
	1620 VA	R	R - DORMS	12	20 A	3 4	20 A	12	L - OFFICES / STORAGE	L	469 VA	
	540 VA	R	R - HALLWAY	12	20 A	5 6	20 A	12	L - DAYROOM / KITCHEN	L	498 VA	
	720 VA	R	R - RR	12	20 A	7 8	20 A	12	L - DORMS / PANTRY	L	720 VA	
	60 VA	F	EF-R#, EF M1	12	15 A	9 10	20 A	12	L - PPE / SCBA / FITNESS	L	240 VA	
	1080 VA	R	R - DORMS	12	20 A	11 12	20 A	12	L - ENTRY / HALLWAY	L	324 VA	
	540 VA	R	R - HALLWAY	12	20 A	13 14	20 A	12	L - HALLWAY	L	495 VA	
	900 VA	R	R - WATCH OFFICE	12	20 A	15 16	20 A	12	L - EXIT SIGNS	L	25 VA	
	1080 VA	R	R - WATCH OFFICE	12	20 A	17 18	20 A	12	L - EXIT SIGNS	L	15 VA	
	1440 VA	R	R - DORMS	12	20 A	19 20	20 A	12	L - EMERGENCY	Ligh...	18 VA	
2	500 VA	M	FACP	12	20 A	21 22	20 A	12	L - TASK FLOOD LIGHTS	EL	48 VA	
	1080 VA	R	R - STORAGE / DORM	12	20 A	23 24	20 A	12	L - FIELD LIGHTS	EL	48 VA	
	0 VA	--	Spare	12	20 A	25 26	--	12	Space	--	0 VA	
	0 VA	--	Spare	12	20 A	27 28	--	12	Space	--	0 VA	
	0 VA	--	Spare	12	20 A	29 30	--	12	Space	--	0 VA	
	0 VA	--	Spare	12	20 A	31 32	--	12	Space	--	0 VA	
	0 VA	--	Spare	12	20 A	33 34	--	12	Space	--	0 VA	
	0 VA	--	Spare	12	20 A	35 36	--	12	Space	--	0 VA	
	28510 VA	Spare ; R; SP; ...	C	3	100 A	37 38	30 A	10	SPD2	SP	0 VA	
						39 40						
						41 42						

N.E.C. (2020)	Load Type	Conn.	Fct.	Diversity	N.E.C.(2020)	Load Type	Conn.	Fct.	Diversity
220.44	(R)Receptacle	32546 VA	65.36%	21273 VA	210.20(a)	(L)Lighting	3372 VA	125.00%	4215 VA
220.56	(K)Kitchen	5700 VA	65.00%	3705 VA		(EL)Ext. Ltg.	96 VA	125.00%	120 VA
220.60	(C)Cooling			0 VA	620.14	(E)Elevators			
220.60	(H)Heating			0 VA		(WH)Wat. Htr.			
220.60	(F)Fans	84 VA	100.00%	84 VA	220.5	(MT)Lrg. Motor			
	(M)Misc.	1360 VA	100.00%	1360 VA		(SP)Sub Pnl.	0 VA	Not Computed	0 VA
Total Connected Load:		43176 VA	VA =	120 A	Location of Panel: IT/ELEC 147				
Total Load (Diversified):		30780 VA	VA =	85 A					

Panelboard C

8 22000 AIC Rating — X New — Existing

120/208 Wye Volt, 3 Phase, 4 Wire — 1 Section — Type 1 -Nema Rating — Mains Type: MLO — 0 A MCB — 225 A BUS (Copper) — ISO. GRND. BUS — X Single — Double — Feed - Thru — Mounting — X Surface — Flush

NOTE	LOAD (VA)	TYPE	DESCRIPTION	WIRE	CB	CKT	CB	WIRE	DESCRIPTION	TYPE	LOAD (VA)	NOTE
	900 VA	R	R - ENTRY / HALLWAY	12	20 A	1 2	20 A	12	RANGE HOOD	K	900 VA	
	540 VA	R	R - EXAM /RR	12	20 A	3 4	20 A	12	R - ICE MACHINE	K	900 VA	1
	720 VA	R	R - CONFERENCE	12	20 A	5 6	20 A	12	R - DISH WASHER	K	900 VA	1
	540 VA	R	R - CONFERENCE	12	20 A	7 8	20 A	12	R - DISH WASHER	K	900 VA	1
	4333 VA	R	R - DRYER	10	30 A	9 10	20 A	12	R - RANGE	K	180 VA	
						11 12	20 A	12	R - EXTERIOR	R	720 VA	
1	1500 VA	R	R - WASHER	12	20 A	13 14	20 A	12	PATIO (FUTURE)	M	0 VA	
	4333 VA	R	R - DRYER	10	30 A	15 16	20 A	12	R - EXTERIOR	R	720 VA	
						17 18	20 A	12	R - EXTERIOR	R	540 VA	
1	1500 VA	R	R - WASHER	12	20 A	19 20	20 A	12	R - OFFICE	R	900 VA	
	180 VA	R	R - UTILITY	12	20 A	21 22	20 A	12	R - OFFICE	R	900 VA	
	24 VA	F	EF-R1, EF-U1	12	15 A	23 24	20 A	12	R - PANTRY / STORAGE	R	720 VA	
	900 VA	R	R - TV ROOM	12	20 A	25 26	20 A	12	R - FRIDGE	R	180 VA	1
	1080 VA	R	R - DAYROOM	12	20 A	27 28	20 A	12	R - FRIDGE	R	180 VA	1
	360 VA	R	R - DAYROOM TV	12	20 A	29 30	20 A	12	R - FRIDGE	R	180 VA	1
	720 VA	K	R - KITCHEN	12	20 A	31 32	20 A	12	GAS SHUT OFF VALVE	M	500 VA	
	600 VA	K	ALERTING SYSTEM ACD	12	20 A	33 34	20 A	12	GARBAGE DISPOSAL	K	900 VA	
	180 VA	M	ELEC. TRAP PRIMER	12	20 A	35 36	20 A	12	ELEC. TRAP PRIMER	M	180 VA	
	0 VA	--	Spare	12	20 A	37 38						
	0 VA	--	Spare	12	20 A	39 40	30 A	10	SPD2	SP	0 VA	
	0 VA	--	Spare	12	20 A	41 42						

N.E.C. (2020)	Load Type	Conn.	Fct.	Diversity	N.E.C.(2020)	Load Type	Conn.	Fct.	Diversity
220.44	(R)Receptacle	21926 VA	72.80%	15963 VA	210.20(a)	(L)Lighting			
220.56	(K)Kitchen	5700 VA	65.00%	3705 VA		(EL)Ext. Ltg.			
220.60	(C)Cooling			0 VA	620.14	(E)Elevators			
220.60	(H)Heating			0 VA		(WH)Wat. Htr.			
220.60	(F)Fans	24 VA	100.00%	24 VA	220.5	(MT)Lrg. Motor			
	(M)Misc.	860 VA	100.00%	860 VA		(SP)Sub Pnl.	0 VA	Not Computed	0 VA
Total Connected Load:		28510 VA	VA =	79 A	Location of Panel: IT/ELEC 147				
Total Load (Diversified):		20552 VA	VA =	57 A					

Panelboard P

8 22000 AIC Rating — X New — Existing

120/208 Wye Volt, 3 Phase, 4 Wire — 1 Section — Type 3R -Nema Rating — Mains Type: MCB — 100 A MCB — 225 A BUS (Copper) — ISO. GRND. BUS — X Single — Double — Feed - Thru — Mounting — X Surface — Flush

NOTE	LOAD (VA)	TYPE	DESCRIPTION	WIRE	CB	CKT	CB	WIRE	DESCRIPTION	TYPE	LOAD (VA)	NOTE
	160 VA	L	L - PUMP HOUSE	12	20 A	1 2						
	48 VA	EL	L - PUMP HOUSE EXTERIOR	12	20 A	3 4	15 A	12	JOCKEY PUMP	M	902 VA	
	720 VA	R	R- PUMP HOUSE	12	20 A	5 6						
	5000 VA	H	EUH-P1	10	30 A	7 8	20 A	12	HEAT TRACE	H	900 VA	
						9 10	20 A	12	OSSF BLOWER /...	M	9133 VA	
	180 VA	M	OSSF PUMP ALARM	12	20 A	11 12	20 A	12	Spare	--	0 VA	
	500 VA	EL	L - TANK SIGNAGE	12	20 A	13 14	20 A	12	Spare	--	0 VA	
	0 VA	--	Spare	12	20 A	15 16	20 A	12	Spare	--	0 VA	
	0 VA	--	Spare	12	20 A	17 18	20 A	12	Spare	--	0 VA	
	0 VA	--	Space	12	--	19 20	20 A	12	Space	--	0 VA	
	0 VA	--	Space	12	--	21 22	--	12	Space	--	0 VA	
	0 VA	--	Space	12	--	23 24	--	12	Space	--	0 VA	
	0 VA	--	Space	12	--	25 26						
	0 VA	--	Space	12	--	27 28	30 A	10	SPD2	SP	0 VA	
	0 VA	--	Space	12	--	29 30						

N.E.C. (2020)	Load Type	Conn.	Fct.	Diversity	N.E.C.(2020)	Load Type	Conn.	Fct.	Diversity
220.44	(R)Receptacle	720 VA	100.00%	720 VA	210.20(a)	(L)Lighting	160 VA	125.00%	200 VA
220.56	(K)Kitchen					(EL)Ext. Ltg.	548 VA	125.00%	685 VA
220.60	(C)Cooling			0 VA	620.14	(E)Elevators			
220.60	(H)Heating	5900 VA	100.00%	5900 VA		(WH)Wat. Htr.			
220.60	(F)Fans				220.5	(MT)Lrg. Motor			
	(M)Misc.	10215 VA	100.00%	10215 VA		(SP)Sub Pnl.	0 VA	Not Computed	0 VA
Total Connected Load:		17543 VA	VA =	49 A	Location of Panel: PUMPHOUSE 152				
Total Load (Diversified):		17720 VA	VA =	49 A					

Panelboard M

8 22000 AIC Rating — X New — Existing

120/208 Wye Volt, 3 Phase, 4 Wire — 1 Section — Type 1 -Nema Rating — Mains Type: MCB — 150 A MCB — 225 A BUS (Copper) — ISO. GRND. BUS — X Single — Double — Feed - Thru — Mounting — X Surface — Flush

NOTE	LOAD (VA)	TYPE	DESCRIPTION	WIRE	CB	CKT	CB	WIRE	DESCRIPTION	TYPE	LOAD (VA)	NOTE
	1872 VA	C	FCU-4	12	15 A	1 2	20 A	12	R - UTILITY	R	720 VA	
						3 4	20 A	12	CONDENSATE PUMP	R	180 VA	
	1872 VA	C	FCU-3	12	15 A	5 6	20 A	12	R - IT/ELEC.	R	720 VA	
						7 8	20 A	12	R - OPEN PLATFORM	R	540 VA	
	1872 VA	C	FCU-1	12	15 A	9 10	15 A	12	GWH-2	M	225 VA	
						11 12	15 A	12	CP-1	M	225 VA	
	1872 VA	C	FCU-2	12	15 A	13 14	15 A	12	GWH-1	M	225 VA	
						15 16	20 A	12	R - MEZZ. PLATFORM	R	720 VA	
	10500 VA	H	OAHU-1	8	45 A	17 18	20 A	12	SECURITY PANEL	M	600 VA	
						19 20	20 A	12	L - MEZZANINE	L	960 VA	
						21 22	20 A	12	FCU-5	C	1872 VA	
	600 VA	M	ACCESS CONTROL PANEL	12	20 A	23 24						
	360 VA	R	R - IT RACK	12	20 A	25 26	20 A	12	ALERTING SYSTEM UPS	R	180 VA	
	360 VA	R	R - IT RACK	12	20 A	27 28	--	12	Space	--	0 VA	
	180 VA	M	ELEC. TRAP PRIMER	12	20 A	29 30	--	12	Space	--	0 VA	
	180 VA	R	AIR COMPRESSOR	12	20 A	31 32	--	12	Space	--	0 VA	
	180 VA	M	ELEC. TRAP PRIMER	12	20 A	33 34	--	12	Space	--	0 VA	
	0 VA	--	Spare	12	20 A	35 36	--	12	Space	--	0 VA	
	0 VA	--	Spare	12	20 A	37 38						
	0 VA	--	Spare	12	20 A	39 40	30 A	10	SPD2	SP	0 VA	
	0 VA	--	Spare	12	20 A	41 42						

N.E.C. (2020)	Load Type	Conn.	Fct.	Diversity	N.E.C.(2020)	Load Type	Conn.	Fct.	Diversity
220.44	(R)Receptacle	3960 VA	100.00%	3960 VA	210.20(a)	(L)Lighting	960 VA	125.00%	1200 VA
220.56	(K)Kitchen					(EL)Ext. Ltg.			
220.60	(C)Cooling	9360 VA	100.00%	0 VA	620.14	(E)Elevators			
220.60	(H)Heating	10500 VA	100.00%	10500 VA		(WH)Wat. Htr.			
220.60	(F)Fans				220.5	(MT)Lrg. Motor			
	(M)Misc.	2235 VA	100.00%	2235 VA		(SP)Sub Pnl.	0 VA	Not Computed	0 VA
Total Connected Load:		27015 VA	VA =	75 A	Location of Panel: IT/ELEC 147				
Total Load (Diversified):		17895 VA	VA =	50 A					

Panelboard R

8 22000 AIC Rating — X New — Existing

120/208 Wye Volt, 3 Phase, 4 Wire — 1 Section — Type 3R -Nema Rating — Mains Type: MCB — 225 A MCB — 225 A BUS (Copper) — ISO. GRND. BUS — X Single — Double — Feed - Thru — Mounting — X Surface — Flush

Note	Load...	Type	Description	Wire	CB	CKT	CB	Wire	Description	Type	Load...	N...
	6094 VA	C	ACCU-1	8	50 A	1 2						
						3 4	50 A	8	OACU-1	C	14079 VA	
	3994 VA	C	ACCU-4	10	30 A	5 6						
						7 8	20 A	12	R - RISER	R	180 VA	
	3994 VA	C	ACCU-2	10	30 A	9 10	20 A	12	R - MECH. YARD	R	180 VA	
						11 12	20 A	12	L - EXT CANOPY	EL	104 VA	
	6032 VA	C	ACCU-3	8	50 A	13 14	20 A	12	R - WATER SOFTNER	R	180 VA	
						15 16	20 A	12	NITRO. GEN.	M	600 VA	
	6032 VA	C	ACCU-5	8	50 A	17 18	20 A	12	L - BLDG. SIGNAGE	EL	500 VA	
						19 20	30 A	10	CONTACTOR	M	900 VA	
	3744 VA	C	DCU-T1 / DSCU-3	10	30 A	21 22	20 A	12	L - SITE LIGHTING	EL	441 VA	
						23 24						
	170 VA	EL	L - EXT. CANOPY	12	20 A	25 26	20 A	12	VEHICLE GATE	M	1800 VA	
	500 VA	EL	L - BLDG. SIGNAGE	12	20 A	27 28						
	588 VA	EL	L - SITE LIGHTING	12	20 A	29 30	20 A	12	L - EMERGENCY	L	14 VA	
						31 32	20 A	12	L - EXT. WALL	EL	168 VA	
	143 VA	EL	L - EXTERIOR	12	20 A	33 34	20 A	12	ELEC. TRAP PRIMER	M	180 VA	
	0 VA	--	Spare	12	20 A	35 36	--	12	Space	--	0 VA	
	17543 VA	Spare ; L; R; SP;...	P	1/0	100 A	37 38	30 A	10	SPD2	SP	0 VA	
						39 40						
						41 42						

N.E.C. (2020)	Load Type	Conn.	Fct.	Diversity	N.E.C.(2020)	Load Type	Conn.	Fct.	Diversity
220.44	(R)Receptacle	1260 VA	100.00%	1260 VA	210.20(a)	(L)Lighting	174 VA	125.00%	218 VA
220.56	(K)Kitchen					(EL)Ext. Ltg.	3162 VA	125.00%	3953 VA
220.60	(C)Cooling	43969 VA	100.00%	43969 VA	620.14	(E)Elevators			
220.60	(H)Heating	5900 VA	100.00%	0 VA		(WH)Wat. Htr.			
220.60	(F)Fans				220.5	(MT)Lrg. Motor			
	(M)Misc.	13695 VA	100.00%	13695 VA		(SP)Sub Pnl.	0 VA	Not Computed	0 VA
Total Connected Load:		68160 VA	VA =	189 A	Location of Panel:				
Total Load (Diversified):		63094 VA	VA =	175 A					

PANEL SCHEDULE NOTES

1. PROVIDE CIRCUIT BREAKER WITH GFCI PROTECTION.
2. PROVIDE CIRCUIT BREAKER WITH LOCKING HANDLE DEVICE.

EMERALD MEP
TX FIRM No. F-24826
PROJECT No. 25018

PROFESSIONAL SEAL

STATE OF TEXAS — M. JACQUELINE CHANG — 124987 — LICENSED PROFESSIONAL ENGINEER — 2026-11-04

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Architectural — Martinez Architects

Civil — Hill Country Civil

Landscape — Evergreen Landscape Group

Structural — Matrix Structural

MEP — Emerald MEP

Technology — Imagine IT

Alerting — WestNET

STATION #42
Hays County ESD #4
Wimberley, TX 78676

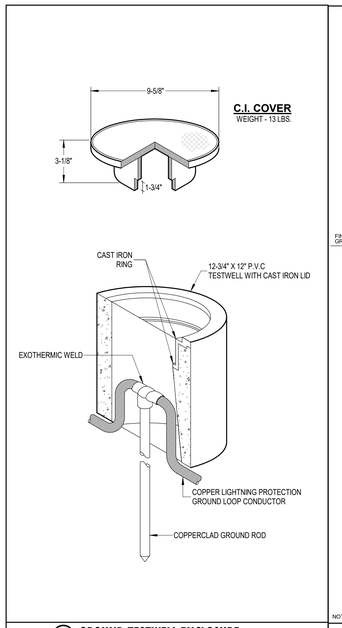
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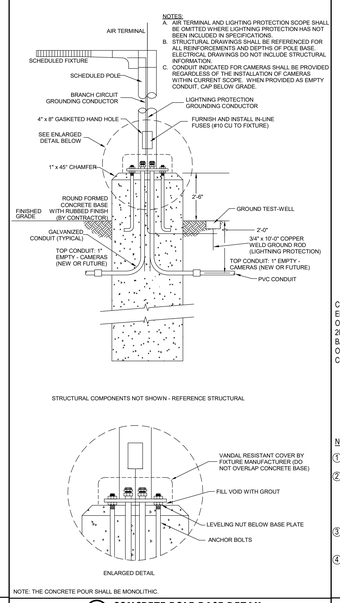
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ELECTRICAL PANEL SCHEDULES

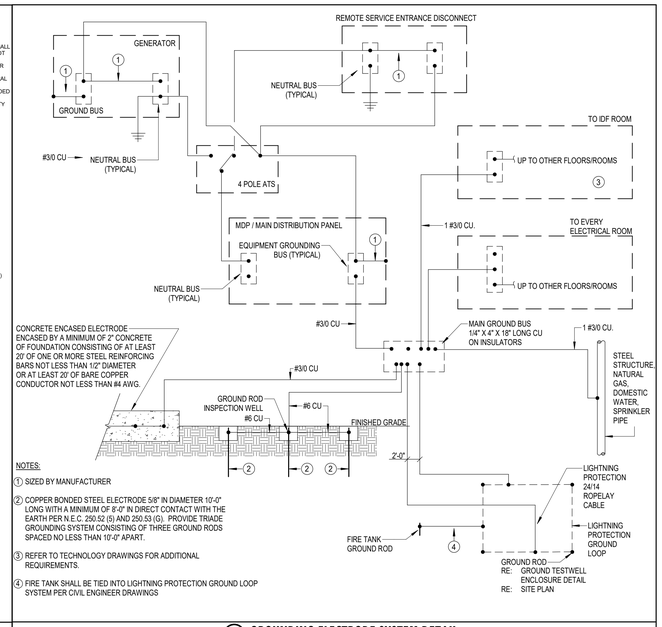
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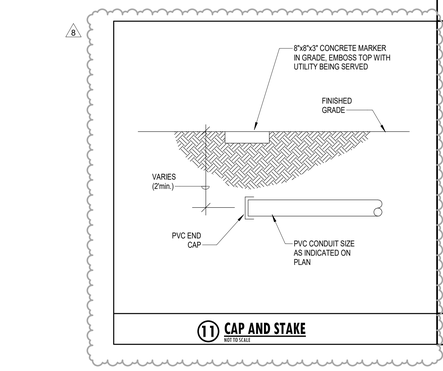
3 GROUND TESTWELL ENCLOSURE
NOT TO SCALE



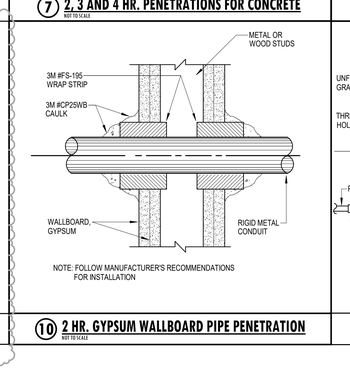
2 CONCRETE POLE BASE DETAIL
NOT TO SCALE



1 GROUNDING ELECTRODE SYSTEM DETAIL
NOT TO SCALE

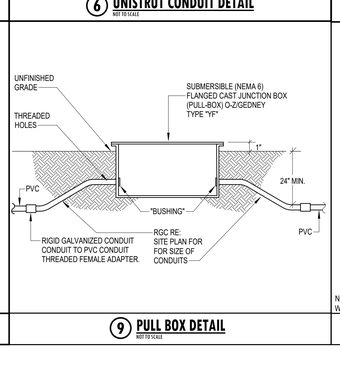


11 CAP AND STAKE
NOT TO SCALE



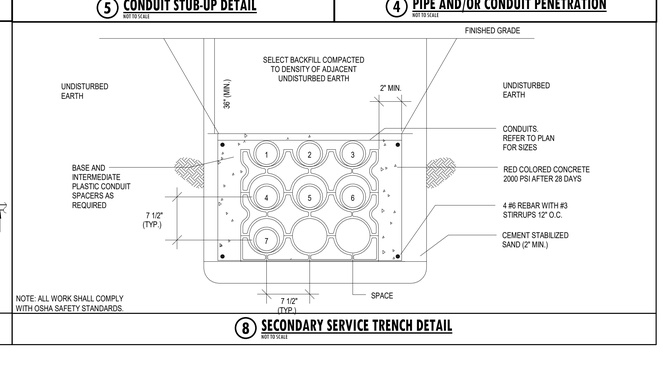
7 2, 3 AND 4 HR. PENETRATIONS FOR CONCRETE
NOT TO SCALE

10 2 HR. GYPSUM WALLBOARD PIPE PENETRATION
NOT TO SCALE



6 UNISTRUT CONDUIT DETAIL
NOT TO SCALE

9 PULL BOX DETAIL
NOT TO SCALE



5 CONDUIT STUB-UP DETAIL
NOT TO SCALE

4 PIPE AND/OR CONDUIT PENETRATION
NOT TO SCALE

8 SECONDARY SERVICE TRENCH DETAIL
NOT TO SCALE

PROFESSIONAL SEAL

STATE OF TEXAS
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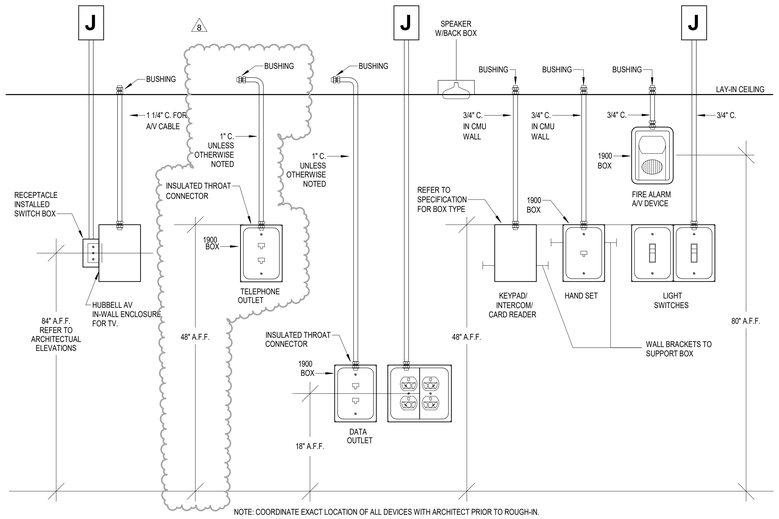
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ELECTRICAL DETAILS

E-601

EMERALD MEP
TX FIRM No. F-24826
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NOTE: COORDINATE EXACT LOCATION OF ALL DEVICES WITH ARCHITECT PRIOR TO ROUGH-IN.

2 TYPICAL DEVICE ELEVATIONS
NOT TO SCALE

FIRE ALARM SYSTEM GENERAL NOTES:

A. PROVIDE 10% SPARE OF EACH FIRE ALARM DEVICE SHOWN ON PLANS FOR USE WHEN ADDITIONAL DEVICES ARE REQUIRED. THE DEVICES NOT USED SHALL BE GIVEN TO THE OWNER AT THE OF THE JOB. SUBMIT TOTALS OF SPARE DEVICES IN SHOP DRAWINGS WITH CALCULATIONS SUPPORTING QUANTITY OF SPARES.

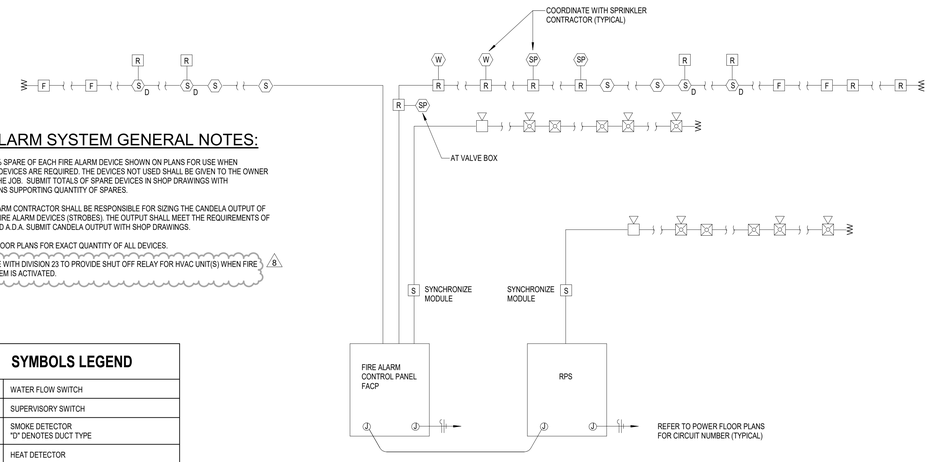
B. THE FIRE ALARM CONTRACTOR SHALL BE RESPONSIBLE FOR SIZING THE CANDELA OUTPUT OF ALL VISUAL FIRE ALARM DEVICES (STROBES). THE OUTPUT SHALL MEET THE REQUIREMENTS OF U.L. ANSI AND A.D.A. SUBMIT CANDELA OUTPUT WITH SHOP DRAWINGS.

C. REFER TO FLOOR PLANS FOR EXACT QUANTITY OF ALL DEVICES.

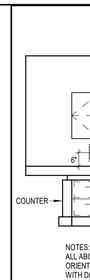
D. COORDINATE WITH DIVISION 23 TO PROVIDE SHUT OFF RELAY FOR HVAC UNIT(S) WHEN FIRE ALARM SYSTEM IS ACTIVATED. (8)

SYMBOLS LEGEND

W	WATER FLOW SWITCH
SP	SUPERVISORY SWITCH
S	SMOKE DETECTOR "D" DENOTES DUCT TYPE
H	HEAT DETECTOR
F	FIRE ALARM PULL STATION
	VISUAL FIRE ALARM (STROBE)
	VISUAL FIRE ALARM (HORN)
	VISUAL FIRE ALARM (COMBINATION HORN STROBE)
R	FIRE ALARM RELAY

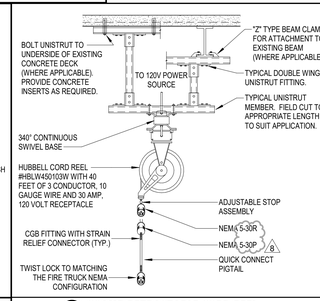


1 FIRE ALARM RISER DIAGRAM
NOT TO SCALE

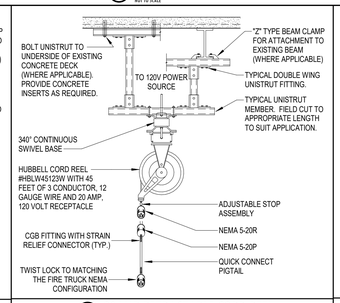


NOTES:
ALL ABOVE COUNTER WALL DEVICES SHALL BE ORIENTED THE SAME DIRECTION. COORDINATE WITH DIVISION 27 PRIOR TO ROUGH-IN.

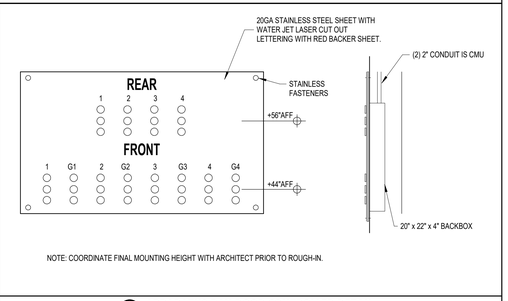
6 TYPICAL COUNTERTOP DEVICE ELEVATION
NOT TO SCALE



5 30AMP RETRACTABLE CORD REEL
NOT TO SCALE

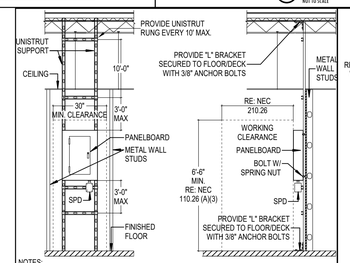


4 20AMP RETRACTABLE CORD REEL
NOT TO SCALE



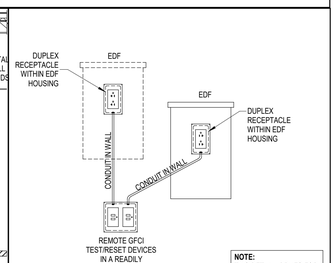
NOTE: COORDINATE FINAL MOUNTING HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN.

3 APPARATUS BAY DOOR CONTROLLER DETAIL
NOT TO SCALE



NOTES:
A. PANELBOARDS SHALL BE INSTALLED IN SUCH WAY THAT THE DISTANCE BETWEEN THE CENTER OF THE TOP CIRCUIT BREAKER HANDLE ON IT'S HIGHEST POSITION AND THE FINISHED FLOOR IS NOT MORE THAT 6'-7", RE: NEC 240.24(A).

8 PANELBOARD MOUNTING DETAIL
NOT TO SCALE



NOTE:
THIS DETAIL APPLIES FOR ALL TYPICAL EDF'S WITH THIS CONFIGURATION

7 ELEC. DRINKING FOUNTAIN DETAIL
NOT TO SCALE

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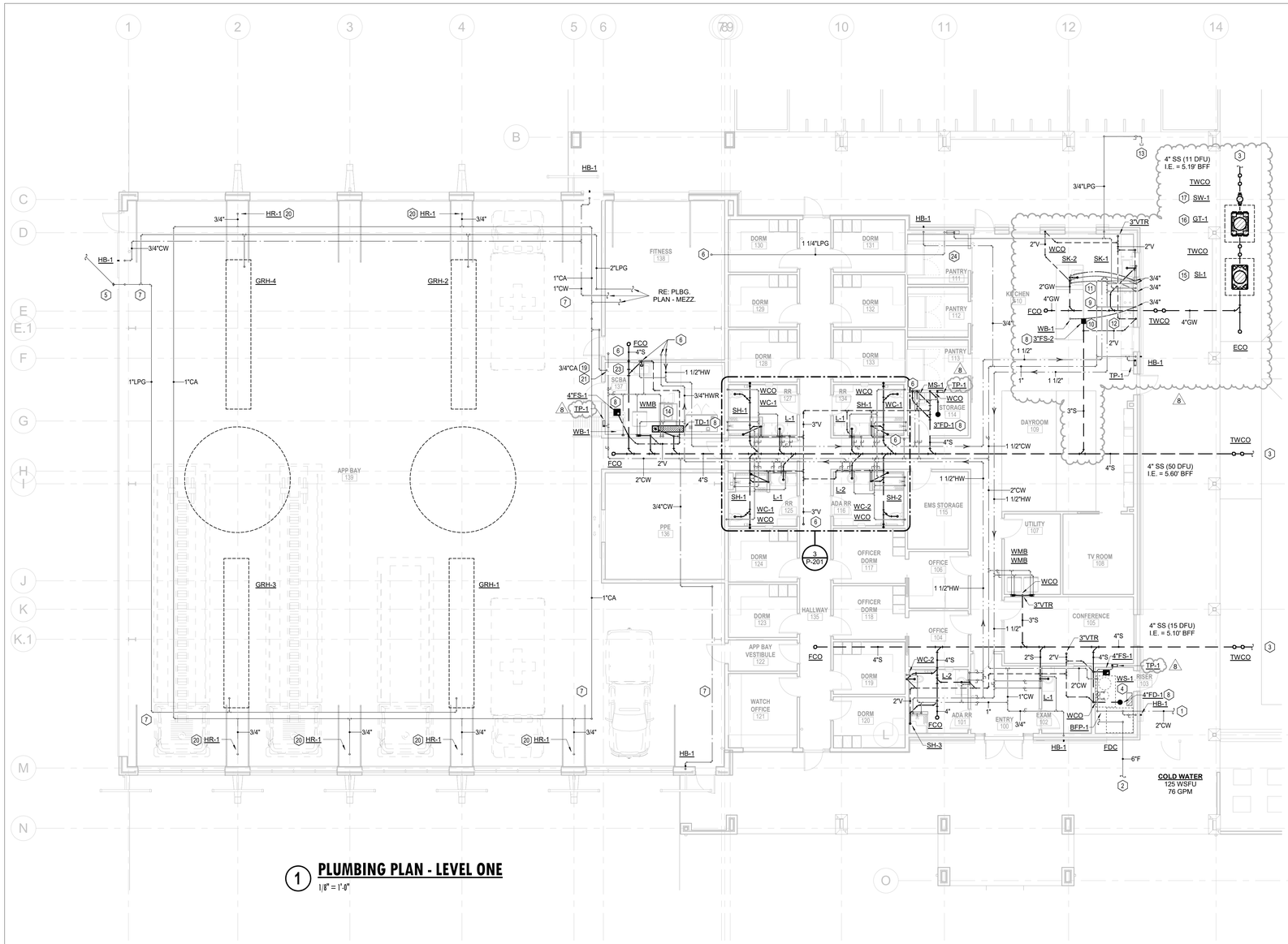
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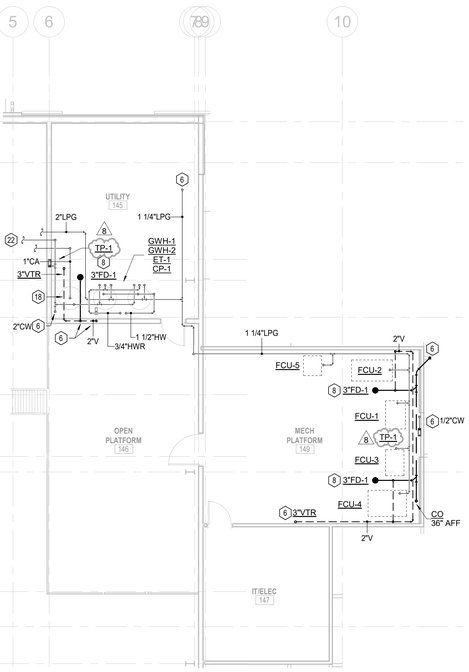
ELECTRICAL DETAILS

E-602



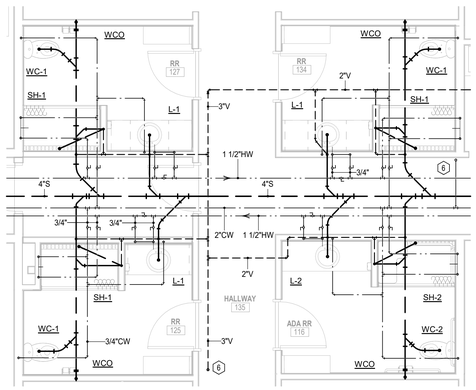
1 PLUMBING PLAN - LEVEL ONE

1/8" = 1'-0"



2 PLUMBING PLAN - MEZZANINE

1/8" = 1'-0"



3 ENLARGED RESTROOM PLAN

1/4" = 1'-0"

PLUMBING KEYED NOTES:

1. DOMESTIC WATER SERVICE, SIZE AND PEAK FLOW RATE AS NOTED. REFER TO CIVIL SITE UTILITY PLANS FOR CONTINUATION.
2. FIRE PROTECTION WATER SERVICE, SIZE AS NOTED. REFER TO CIVIL SITE UTILITY PLANS AND FIRE SPRINKLER CONTRACTOR FOR CONTINUATION.
3. SANITARY BUILDING DRAIN, SIZE AS NOTED. REFER TO CIVIL SITE UTILITY PLANS FOR CONTINUATION.
4. WALL MOUNTED NITROGEN SUPERVISORY GAS GENERATOR FOR DRY PIPE SYSTEM. COORDINATE FINAL ELECTRICAL REQUIREMENTS WITH ELECTRICAL CONTRACTOR.
5. LP GAS SERVICE TO BUILDING. SIZE AS NOTED. REFER TO PLUMBING RISERS.
6. PLUMBING PIPE (DWV, WATER, AIR, OR GAS) CONTINUES TO / FROM LEVEL ABOVE / BELOW. SIZE AND TYPE AS NOTED. COORDINATE EXACT ROUTING WITH THE WORK OF OTHER TRADES. REFER TO PLUMBING SYMBOLS LEGEND.
7. ROUTE PIPING AS HIGH AS POSSIBLE. SECURE TO BUILDING. COORDINATE ROUTING WITH STRUCTURE AND THE WORK OF OTHER TRADES.
8. SUPPLY TRAP PRIMER CONNECTION TO DRAIN. REFER TO PLUMBING SCHEDULES, AND COORDINATE EXACT ROUTING WITH THE WORK OF OTHER TRADES.
9. DISHWASHER(S). PROVIDE HOT WATER SUPPLY AND STOP, AIR GAP FITTING, AND WASTE CONNECTION. REFER TO PLUMBING DETAILS.
10. UNDERCOUNTER ICE MAKER.
11. ISLAND FIXTURE INSTALLATIONS. PROVIDE SINK(S) WITH ISLAND FIXTURE VENTING. REFER TO PLUMBING DETAIL. ROUTE CW AND HW BELOW FLOOR FOR SERVICE TO ISLAND FIXTURES. SIZE AS NOTED. REFER TO PLUMBING PIPE MATERIAL SCHEDULE AND PROJECT SPECIFICATIONS.
12. OVEN / RANGE. REFER TO PLUMBING RISER.
13. OUTDOOR GRILL. ROUTE GAS TO OUTDOOR GAS GRILL. COORDINATE EXACT ROUTING WITH THE WORK OF OTHER TRADES. REFER TO PLUMBING RISERS AND PLUMBING DETAILS.
14. WASHER-EXTRACTOR. PROVIDE 1" CW AND HW SUPPLY LINES, HOSE FAUCETS, WATER HAMMER ARRESTORS. CONNECTIONS, DUAL CHECK VALVES, AND ALL RELATED COMPONENTS NECESSARY FOR A COMPLETE INSTALLATION ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
15. SOLIDS INTERCEPTOR (SI-1) BY SCHIER, MODEL SI-50 FURNISHED FOR BELOW-GRADE INSTALLATION WITH ADJUSTABLE COVER ADAPTER, AND TRAFFIC RATED 24" CAST IRON COVER (T24-GI). INSTALL RISER AND ANY ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION. PROVIDE SOLIDS INTERCEPTOR IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION RECOMMENDATIONS AND LOCAL REQUIREMENTS. REFER TO PLUMBING DETAILS.
16. GREASE INTERCEPTOR (GT-1) BY SCHIER, MODEL GB-75 FURNISHED FOR BELOW-GRADE INSTALLATION WITH ADJUSTABLE COVER ADAPTER, AND TRAFFIC RATED 24" CAST IRON COVER (T24-GI). INSTALL RISER AND ANY ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION. PROVIDE GREASE INTERCEPTOR IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION RECOMMENDATIONS AND LOCAL REQUIREMENTS. REFER TO PLUMBING DETAILS.
17. SAMPLE WELL (SW-1) BY SCHIER, MODEL SV10 FURNISHED FOR BELOW-GRADE INSTALLATION. INSTALL RISER AND ANY ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION. PROVIDE SAMPLE WELL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND LOCAL REQUIREMENTS. REFER TO PLUMBING DETAILS.
18. AIR COMPRESSOR SYSTEM. OWNER FURNISHED AND INSTALLED.
19. AIR OUTLET / DROP. ROUTE COMPRESSED AIR PIPING FOR AIR OUTLET / DROP. SIZE AS NOTED. COORDINATE EXACT ROUTING WITH THE WORK OF OTHER TRADES AND EXACT LOCATION WITH OWNER AND ARCHITECT. SECURE PIPE TO WALL. PROVIDE VALVE AND QUICK CONNECT. REFER TO PLUMBING SCHEDULES AND PLUMBING DETAILS.
20. AIR HOSE REEL. AIR PIPING TO HR-1, SIZE AS NOTED. COORDINATE WITH ARCHITECT/OWNER FOR EXACT LOCATION. REFER TO PLUMBING DETAILS.
21. AIR OUTLET / DROP TO BE ABOVE COUNTER.
22. REFER TO PLUMBING PLAN - LEVEL ONE.
23. PROVIDE 3/4" CW AND HW SUPPLY AND STOPS, AND 2" DRAIN CONNECTION STUB OUT AT WALL. CAP AND SECURE FOR FUTURE USE. COORDINATE WITH ARCH AND OWNER FOR EXACT LOCATION.
24. PROVIDE ASCO REDHAT GAS SHUT-OFF VALVES AS RECOMMENDED BY WESTNET STATION ALERTING SYSTEMS. PROVIDE WITH NEMA 1 ENCLOSURE, SIZED FOR INSTALLATION OF BOTH VALVES AND ASSOCIATED FITTINGS AND APPURTENANCES. COORDINATE POWER REQUIREMENTS AND CONTROL INTEGRATION WITH ELECTRICAL CONTRACTOR AND STATION ALERTING INSTALLER.

PLUMBING GENERAL NOTES:

A. PLUMBING PIPING SHALL BE INSTALLED TIGHT TO STRUCTURE (OVERHEAD, WALLS, COLUMNS, ETC.) IN AREAS WITH EXPOSED STRUCTURE.

B. REFER TO MEP SITE PLAN FOR UTILITY CONNECTIONS.

C. COORDINATE ROUTING OF ALL PIPING WITH STRUCTURAL ELEMENTS INCLUDING THE FOUNDATION, FOOTINGS, AND GRADE BEAMS PRIOR TO INSTALLATION.

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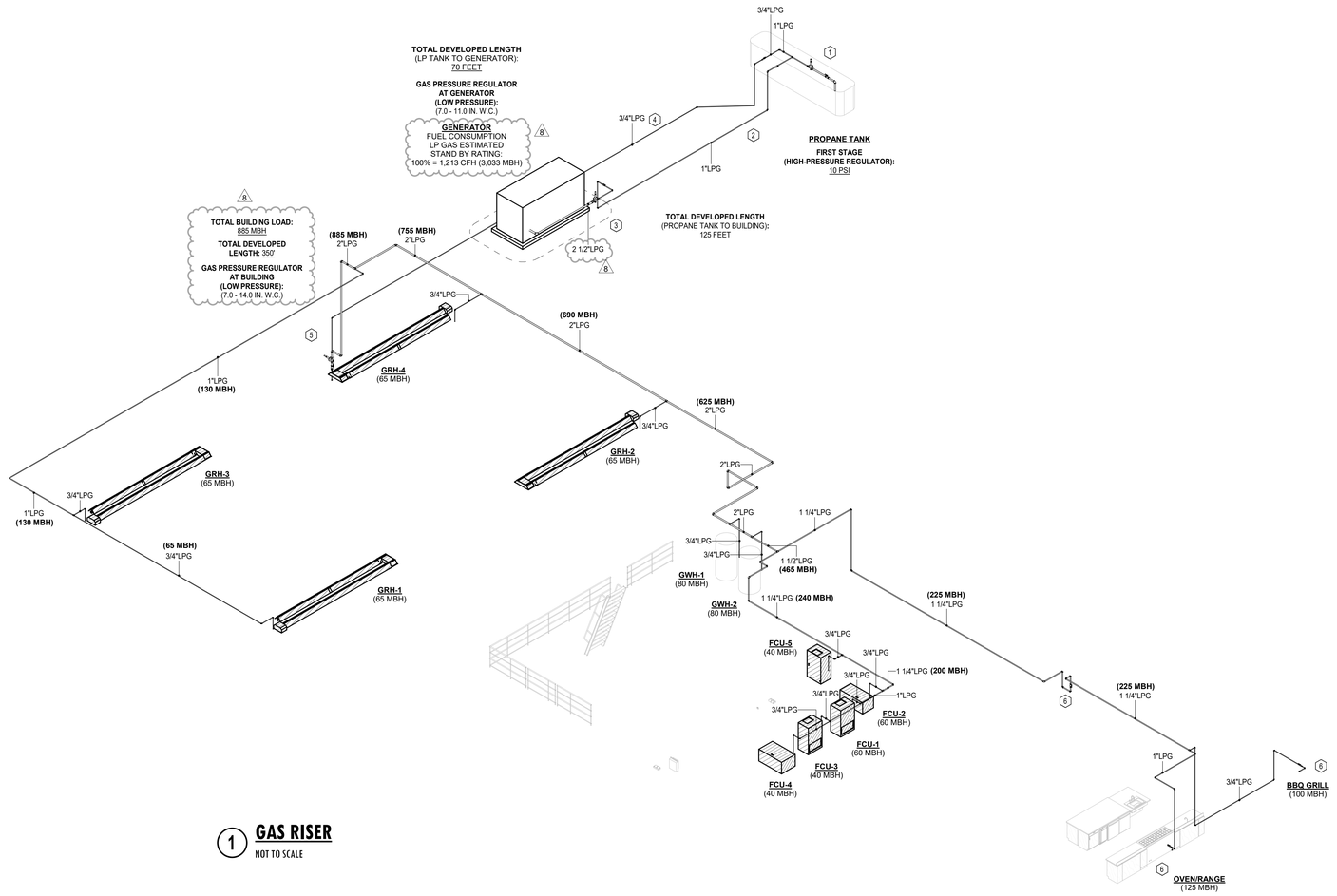
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PLUMBING PLANS

P-201



1 GAS RISER
NOT TO SCALE

PROPANE GAS LOAD BREAKDOWN

ITEM	BTU/H	MBH @ 1000 BTU/H	CFH @ 2500 BTU/FT.3
RANGE / OVEN	125,000	125	50
BBQ GRILL	100,000	100	40
GAS WATER HEATER (GWH-1)	80,000	80	32
GAS WATER HEATER (GWH-2)	80,000	80	32
GAS RADIANT HEATER (GRH-1)	65,000	65	26
GAS RADIANT HEATER (GRH-2)	65,000	65	26
GAS RADIANT HEATER (GRH-3)	65,000	65	26
GAS RADIANT HEATER (GRH-4)	65,000	65	26
FAN COIL UNIT (FCU-1)	60,000	60	24
FAN COIL UNIT (FCU-2)	60,000	60	24
FAN COIL UNIT (FCU-3)	40,000	40	16
FAN COIL UNIT (FCU-4)	40,000	40	16
FAN COIL UNIT (FCU-5)	40,000	40	16
GENERATOR	3,032,500	3,032	1,213
ESTIMATED TOTAL DEMAND	**3,917,500**	**3,917**	**1,567**

PLUMBING GAS RISER NOTES:

A. ISOMETRIC DIAGRAMS ARE FOR SIZING PURPOSES ONLY AND SHALL NOT BE USED FOR MATERIAL TAKE-OFFS, OR BE CONSTRUED TO INDICATE ACTUAL SITE INSTALLATION. CONTRACTOR SHALL COORDINATE EXACT LOCATIONS OF PIPING, DEVICES, AND EQUIPMENT WITH BUILDING ELEMENTS AND THE WORK OF OTHER TRADES.

B. CONTRACTOR TO PROVIDE GAS PRESSURE REGULATORS, PLUG VALVES, UNIONS, STRAINERS, AND DRIP LEGS (SEDIMENT TRAP) PRIOR TO MECHANICAL EQUIPMENT TIE-INS. CONTRACTOR TO SET GAS PRESSURE REGULATORS PER MANUFACTURERS' RECOMMENDATIONS.

C. PROVIDE ASCO REDHAT GAS SHUT-OFF VALVES AS RECOMMENDED BY WESTNET STATION ALERTING SYSTEMS. PROVIDE WITH NEMA 1 ENCLOSURE, SIZED FOR INSTALLATION OF BOTH VALVES AND ASSOCIATED FITTINGS AND APPURTENANCES. COORDINATE POWER REQUIREMENTS AND CONTROL INTEGRATION WITH ELECTRICAL CONTRACTOR AND STATION ALERTING INSTALLER.

PLUMBING KEYED NOTES:

1. OWNER TO PROVIDE 1000 GALLON PROPANE TANK WITH SATELLITE BASED CAPACITY MONITOR TO MAINTAIN 800 GALLONS OF AVAILABLE FUEL IN ORDER TO SERVE EMERGENCY EVENT ACTIVATING GENERATOR. CONTRACTOR SHALL COORDINATE WITH OWNER'S TANK PROVIDER FOR TANK FOUNDATION, LOCATION OF STUB UP, AND SETUP AS NEEDED. CONTRACTOR SHALL PROVIDE SHUT-OFF VALVES, GAS PRESSURE REGULATORS, AND ALL FINAL CONNECTIONS NECESSARY FOR A COMPLETE INSTALLATION.
2. LP GAS ROUTED BELOW GRADE TO SERVE EMERGENCY GENERATOR. CONTRACTOR TO COORDINATE EXACT ROUTING WITH THE WORK OF OTHER TRADES. PROVIDE SHUT-OFF VALVE.
3. LP GAS UP FROM BELOW GRADE TO SERVE EMERGENCY GENERATOR. PROVIDE SHUT-OFF VALVE AND GAS PRESSURE REGULATOR SET TO MANUFACTURER'S INSTALLATION REQUIREMENTS. ALLOW FOR A MINIMUM OF 10' FROM THE LOW PRESSURE REGULATOR TO THE GENERATOR.
4. LP GAS ROUTED BELOW GRADE TO SERVE BUILDING. CONTRACTOR TO COORDINATE EXACT ROUTING WITH THE WORK OF OTHER TRADES. PROVIDE SHUT-OFF VALVE.
5. LP GAS RISE UP ABOVE GRADE/PAVING OUTSIDE BUILDING. PROVIDE SHUT-OFF VALVE AND GAS PRESSURE REGULATOR SET TO PROVIDE 11-14" W.C. GAS PRESSURE. SLEEVE PENETRATION THROUGH EXTERIOR WALL WATER TIGHT. RISE UP TO CEILING SPACE TIGHT AND SECURED TO STRUCTURE. SIZE AS NOTED. CONTRACTOR TO COORDINATE EXACT ROUTING WITH THE WORK OF OTHER TRADES.
6. ASCO REDHAT GAS SHUT-OFF VALVES AS RECOMMENDED BY WESTNET STATION ALERTING SYSTEMS WITH NEMA 1 ENCLOSURE.

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STATION #42
Hays County ESD #4
Wimberley, TX 78676

PROJECT No: **MA 25016**
DATE: **20-OCT-2026**

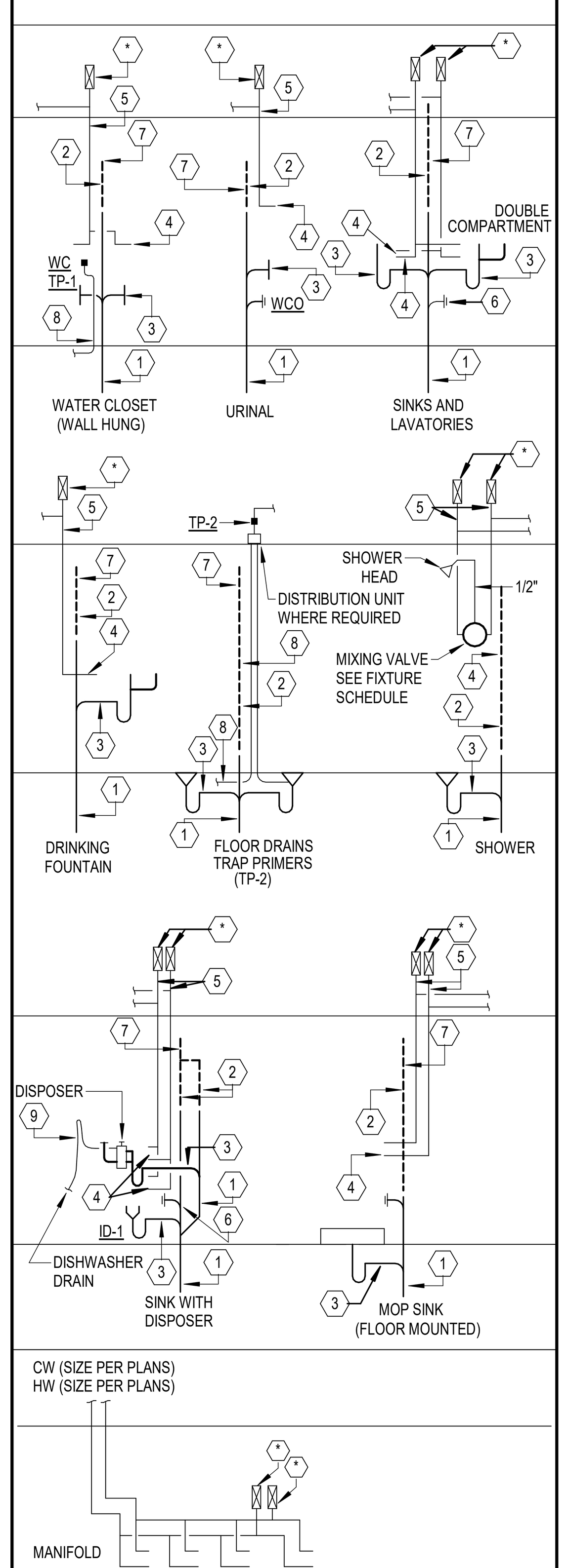
ISSUE

1	100% DD	06-JAN-2026
2	50% CD	23-FEB-2026
3	75% CD	06-APR-2026
4	98% CD	04-MAY-2026
5	IFP	01-JUN-2026
6	IFB	20-OCT-2026
8	ADDENDUM#4	04-NOV-2026

PLUMBING RISERS

P-401

TYPICAL PLUMBING RISER DETAILS



KEYED NOTES - TYPICAL RISER DIAGRAM DETAILS:
(NOT ALL RISERS USED IN EVERY PROJECT.)

1. REFER TO PLUMBING FIXTURE SCHEDULE FOR SOIL OR WASTE ROUGH-IN PIPE SIZE. MINIMUM SOIL OR WASTE DRAIN LINE SIZE (EXCEPT AS NOTED) FOR THIS FIXTURE.
2. REFER TO PLUMBING FIXTURE SCHEDULE FOR SANITARY VENT ROUGH-IN PIPE SIZE. MINIMUM SANITARY VENT BRANCH SIZE (EXCEPT AS NOTED) FOR THIS FIXTURE.
3. REFER TO PLUMBING FIXTURE SCHEDULE FOR FIXTURE DRAIN ROUGH-IN PIPE SIZE. MINIMUM FIXTURE DRAIN AND TRAP SIZE (EXCEPT AS NOTED) FOR THIS FIXTURE.
4. REFER TO PLUMBING FIXTURE SCHEDULE FOR WATER PIPING ROUGH-IN PIPE SIZE. MINIMUM WATER SUPPLY BRANCH SIZE (EXCEPT AS NOTED) FOR THIS FIXTURE.
5. / * WATER HAMMER ARRESTOR INLET; REFER TO ARRESTOR SCHEDULE FOR SIZE. LOCATION SHOWN HERE FOR INDIVIDUAL FIXTURE WILL VARY WHERE INCLUDED AS PART OF PLUMBING CHASE BATTERY OF PIPING. REFER TO RISER DIAGRAMS FOR MANIFOLD LOCATIONS. ARRANGE ALL WATER LINES TO GRAVITY DRAIN.
6. WALL CLEANOUTS SHALL BE PROVIDED AT ALL END OF BATTERY OR END OF BRANCH LINE FIXTURES AND WHERE REQUIRED BY PLUMBING CODE OFFICIALS TO ASSURE COMPLETE ACCESS TO ALL PORTIONS OF DRAIN.
7. SANITARY VENT PIPES SHALL CONTINUE TO CEILING OR HEADER TOGETHER AT MINIMUM 42" ABOVE FINISHED FLOOR.
8. TRAP PRIMER LINE; SEE PLUMBING DETAILS SHEET. EXTEND AND CONNECT TO FLOOR DRAIN TRAP AS SHOWN.
9. AIR GAP FITTING; PROVIDE WHERE REQUIRED BY CODE.

WATER HAMMER ARRESTOR SCHEDULE

* P.D.I. SYMBOL	FIXTURE UNITS	SIZE
A	1-11	1/2" NPT
B	12-32	3/4" NPT
C	33-60	1" NPT
D	61-113	1 1/4" NPT
E	114-154	1 1/2" NPT
F	155-330	2" NPT

PIPING RISER DIAGRAMS/TYPICAL RISER DETAILS ILLUSTRATE WATER HAMMER ARRESTORS FOR FIXTURE WATER PIPE OPENINGS. ALL ARRESTORS SHALL BE SIZED AS INDICATED ON DRAWINGS OR IN ACCORDANCE WITH THIS SCHEDULE, WHICHEVER PLACES THE MOST STRINGENT REQUIREMENT.

PROVIDE ARRESTORS IN ACCORDANCE WITH THE REQUIREMENTS OF PLUMBING DRAINAGE INSTITUTE (PDI) STANDARD PDI-WH-201. THE USE OF AIR CHAMBERS SHALL NOT BE ACCEPTABLE.

WATER HAMMER ARRESTORS SHALL HAVE LIFETIME WARRANTY AND SHALL BE CERTIFIED BY THE MANUFACTURER AS SUITABLE FOR INSTALLATION WITHOUT A REQUIREMENT FOR ACCESS PANELS. NONETHELESS, ACCESS PANELS SHALL BE PROVIDED IF AND AS REQUIRED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ).

PLUMBING GENERAL NOTES

1. ALL WORK, METHODS AND INSTALLATIONS INVOLVED IN THE PLUMBING DESIGN SHALL BE IN ACCORDANCE WITH THE PREVAILING BUILDING CODES AND INSPECTION REGULATIONS AND ALL OTHER OFFICIALS HAVING JURISDICTION.
2. PRIOR TO CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING A COPY OF THE OWNER'S MOST RECENT STANDARDS AND REQUIREMENTS FOR CONSTRUCTION. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH SUCH REQUIREMENTS, UNLESS THE PREVAILING CODE OR THESE DOCUMENTS INDICATE A HIGHER STANDARD, WHICH SHALL GOVERN.
3. COORDINATE ROUTING OF PIPING IN CEILING SPACES WITH MECHANICAL AND ELECTRICAL EQUIPMENT, DUCTWORK AND CONDUIT. NOTIFY THE ARCHITECT/ENGINEER OF ANY CONFLICTS PRIOR TO INSTALLING AN ALTERNATE PIPING PLAN.
4. DO NOT ROUGH-IN FOR FIXTURES FROM THESE DRAWINGS. REFER TO LATEST ARCHITECTURAL DRAWINGS FOR DIMENSIONED LOCATIONS.
5. ALL PLUMBING FIXTURE AND DEVICE LOCATIONS AND MOUNTING HEIGHTS SHALL BE COORDINATED IN ADVANCE WITH CASEWORK, MILLWORK, ETC.
6. COORDINATE FIXTURE AND EQUIPMENT LOCATIONS AND CONNECTION REQUIREMENTS WITH LATEST ARCHITECTURAL DRAWINGS, SPECIFICATIONS, AND MANUFACTURER RECOMMENDATIONS PRIOR TO ANY ROUGH-INS.
7. PROVIDE CLEANOUTS, POINT OF USE WATER HEATERS, WATER FILTERS, ETC. IN ACCESSIBLE, BUT NOT IMMEDIATELY VISIBLE LOCATIONS. REFER TO AND COORDINATE WITH ARCHITECTURAL DRAWINGS FOR DIMENSIONS AND DETAILS OF SINK SKIRTS, ADA PANELS, AND MILLWORK.
8. ALL PIPING SHALL BE ROUTED CONCEALED FROM PUBLIC VIEW.
9. ENSURE THAT PIPING ROUTED IN CEILING SPACE IS AT AN ELEVATION ABOVE THE TOP OF WINDOW FRAME HEADS. ENSURE THAT PIPING ROUTED LOW INSIDE WALLS IS BELOW THE ELEVATION OF WINDOW SILLS. PROVIDE OFFSETS IN PIPING AS REQUIRED.
10. ALL VALVES, EQUIPMENT, AND OPERABLE APPURTENANCES SHALL BE LOCATED FREE FROM OBSTRUCTIONS FOR FULL OPERABILITY AND MAINTENANCE ACCESS.
11. ALL PIPING PROVIDED WITHIN RETURN AIR CEILING SPACES SHALL BE PLENUM RATED.
12. INSTALLATIONS WHICH DO NOT ADHERE TO THE REQUIREMENTS INDICATED WITHIN THE CONTRACT DOCUMENTS OR WHICH ARE INCORRECT DUE TO LACK OF FIELD COORDINATION, ETC. SHALL BE CORRECTED SOLELY AT THE CONTRACTOR'S EXPENSE, WITH NO EXCEPTIONS.
13. PROVIDE BALL VALVE SHUT-OFFS ON ALL DOMESTIC WATER BRANCH LINES WITHIN 24"OF THE CORRESPONDING MAIN, WHETHER INDICATED ON PLAN DRAWINGS OR NOT.
14. ALL DOMESTIC WATER AND SANITARY VENT LINES SERVING FIXTURE GROUPS SHALL HAVE A FULL SIZE HEADER THAT RUNS THE LENGTH OF THE CHASE/WALL SPACE FOR CONNECTION TO ALL FIXTURES. REFER TO PLANS FOR HEADER SIZES, WHICH MAY BE INDICATED BY THE VERTICAL DROP DOWN OR RISE UP FROM THE CHASE. REFER TO PLUMBING FIXTURE SCHEDULE FOR INDIVIDUAL FIXTURE ROUGH-IN CONNECTION SIZES TO HEADER.
15. VENT HEADERS WITHIN WALLS AND CHASES FOR MULTIPLE FIXTURES SHALL BE PROVIDED AT NO LESS THAN 42" ABOVE FINISHED FLOOR.
16. FOR EACH FIXTURE INTENDED TO DRAIN INDIRECTLY, PROVIDE THE CODE REQUIRED INDIRECT WASTE PIPE (AND TRAP OR TRAP AND VENT, AS NECESSARY) TO ROUTE THE DRAIN LINE TO THE NEAREST APPROVED INDIRECT WASTE RECEPTOR WITHOUT POSING A TRIP HAZARD. IN FINISHED AREAS ALL SUCH DRAIN LINES SHALL BE CHROME PLATED CAST BRASS.
17. PROVIDE AN ACCESSIBLE WALL CLEANOUT AT THE BASE OF EACH SANITARY RISER, WHETHER INDICATED ON PLAN DRAWINGS OR NOT.
18. FOR FLOOR MOUNTED WATER HEATERS AND SIMILAR EQUIPMENT, PROVIDE A RECTANGULAR SHAPED 4" THICK CONCRETE HOUSEKEEPING PAD EXTENDING TO BEYOND THE LIMITS OF THE EQUIPMENT FOOTPRINT.
19. COORDINATE ROUTING OF PIPING BELOW SLAB ON GRADE WITH COLUMN FOOTINGS, GRADE BEAMS, UNDERGROUND PLUMBING AND ELECTRICAL UTILITIES, AND ANY OTHER SUB-SURFACE BUILDING ELEMENTS. MAKE ADJUSTMENTS AS REQUIRED.
20. COORDINATE IN FIELD TO ENSURE NO LESS THAN 6 INCHES OF EARTHEN COVER FROM TOPS OF PIPES TO BOTTOMS OF GRADE BEAMS, FOUNDATION WALLS, OR SIMILAR ELEMENTS. IN LOCATIONS WHERE SUCH MINIMUM COVER CANNOT BE PROVIDED DUE TO LIMITATIONS OF AVAILABLE PIPE INVERTS, PROVIDE CAST IRON SLEEVES THROUGH THE FOUNDATION ELEMENTS. SLEEVES SHALL BE NO SMALLER THAN TWO PIPE SIZES GREATER THAN THE PIPE PASSING THROUGH THE GRADE BEAM/FOUNDATION WALL. COORDINATE WITH AND ADHERE TO ALL RELATED REQUIREMENTS INDICATED BY THE STRUCTURAL ENGINEER.
21. PROVIDE ISOLATION VALVES FOR ALL BRANCHES OFF DOMESTIC WATER MAINS. ALL PLUMBING SYSTEM VALVES SHALL BE INSTALLED IN ACCESSIBLE CEILING SPACES.
22. WHERE CEILING IS NOT ACCESSIBLE, OR SPACE IS CONFLICTING, VALVES SHALL BE INSTALLED IN PARTITIONS OR PIPE CHASES. PROVIDE APPROVED PAINTED STEEL HINGED ACCESS PANELS IN LOCATIONS PRE-APPROVED BY THE ARCHITECT. PROVIDE MARKINGS ON CEILING TILES ON LOCATIONS OF ISOLATION VALVES.
23. COORDINATE IN FIELD TO ENSURE THAT ALL INDIRECT WASTE RECEPTORS ARE PROPERLY POSITIONED WITH REGARD TO THE FIXTURES AND/OR EQUIPMENT THEY ARE INTENDED TO SERVE. MAKE ADJUSTMENTS AS REQUIRED. INSTALLATIONS WHERE SUPPORT FEET/CASTERS FOR APPLIANCES, EQUIPMENT, COUNTERTOPS, ETC., REST UPON DRAIN STRAINERS, GRATES, OR RIMS SHALL BE CONSIDERED UNACCEPTABLE. SUCH INSTALLATIONS SHALL BE CORRECTED SOLELY AT THE CONTRACTOR'S EXPENSE.
24. COORDINATE IN FIELD TO ENSURE THAT ALL DRAINS TO BE LOCATED IN AREAS OF SLOPED OR DEPRESSED SLABS ARE PROPERLY POSITIONED FOR THE INTENDED DRAINAGE. MAKE ADJUSTMENTS AS REQUIRED.
25. NORMALLY CLOSED (NC) VALVE(S) SHOULD BE FIELD INSTALLED AS CLOSE AS POSSIBLE TO NORMAL PATH OF HOT WATER TRAVEL AS SHOWN ON PLAN. THE REMAINING LEG OF BY-PASS PIPING WILL BE IN DIRECT COMMUNICATION WITH THE CIRCULATING WATER.
26. NORMALLY OPEN (NO) VALVE(S) ON HOT WATER LINES SHALL BE INSTALLED AS SHOWN ON THE PLAN.
27. ALL DOMESTIC WATER LINES ROUTED BELOW SLAB SHALL BE SOFT TYPE K COPPER WATER TUBE CONTINUOUS WITH NO JOINTS BELOW SLAB PER SPECIFICATION SECTION 22 10 00. PROVIDE CORROSION PROTECTION PER SPECIFICATIONS FOR ALL BURIED TUBE AND EXTEND PROTECTION UP TO 6 INCHES ABOVE FINISHED SLAB IN A PVC SLEEVE.

PLUMBING FIXTURES GENERAL NOTES

1. MOUNTING HEIGHT ELEVATION OF ALL WALL HUNG OR COUNTER MOUNTED FIXTURES SHALL BE COORDINATED WITH ARCHITECTURAL DRAWINGS PRIOR TO INSTALLATION OF ROUGH-IN WORK.
2. FOR ALL FIXTURES AND EQUIPMENT WITH ASSOCIATED TRIM OR COMPONENT ACCESSORIES PROVIDED UNDER SEPARATE DIVISIONS AND REQUIRING PLUMBING CONNECTIONS; THIS CONTRACTOR SHALL FIELD COORDINATE EXACT REQUIREMENTS OF, MAKE PROVISIONS FOR, AND SUPPLY ALL MATERIALS AND LABOR FOR MAKING FINAL CONNECTIONS.
3. CONTRACTOR SHALL REFER TO SHOP DRAWINGS OF EQUIPMENT TO BE SUPPLIED FOR FINAL COORDINATION OF ALL ROUGH-IN OPENINGS BEFORE BEGINNING WORK.
4. ALL FIXTURE AND EQUIPMENT STUB-OUTS SHALL BE PROVIDED WITH A STOP VALVE. ALL FIXTURE STOPS SHALL BE SOLID BRASS, LOOSE KEY OPERATED, CHROME PLATED (WHERE EXPOSED), AND FITTED TIGHT TO CHROME PLATED BRASS WALL ESCUTCHEON PLATES. SUPPLY RISERS SHALL BE STAINLESS STEEL FLEXIBLE CONNECTORS.
5. ALL P-TRAPS WITHIN THE BUILDING, ABOVE GRADE AND EXPOSED TO INSPECTION SHALL BE CHROME PLATED ADJUSTABLE, CAST BRASS WITH CLEANOUT PLUG. PROVIDE CAST BRASS SLIP NUTS AND WASHERS, 17 GAGE SEAMLESS TUBULAR BRASS DRAIN TO WALL AND WALL FLANGE. PROVIDE MCGUIRE NO. 8872C, 1-1/4" P-TRAP FOR ALL LAVATORIES AND SIMILAR FIXTURES PROVIDE MCGUIRE NO. 8912C, 1-1/2" P-TRAP FOR ALL SINKS AND SIMILAR FIXTURES.
6. PROVIDE DEEP SEAL P-TRAP FOR ALL DRAINS OF INFREQUENT USE OR REQUIRING TRAP PRIMER.
7. ALL ROUGH IN OPENINGS SHALL BE FITTED WITH CHROME PLATED, WROUGHT BRASS DEEP BELL OR BOX ESCUTCHEON PLATES FITTED TIGHT TO THE PIPE AND FLUSH TO THE WALL. STEEL ESCUTCHEON PLATES ARE NOT ACCEPTED.
8. ALL EXPOSED BRASS SHALL BE CHROME PLATED.
9. ALL HANDICAPPED ACCESSIBLE FIXTURES INDICATED WITH SHALL BE PROVIDED OF APPROVED TYPES AND WITH REQUIRED CONTROLS AND INSTALLED TO HEIGHTS AND CLEARANCES, AS PRESCRIBED BY AMERICANS WITH DISABILITIES ACT (ADA). FIXTURES SHALL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL ACCESSIBILITY CODE REQUIREMENTS. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONED MOUNTING HEIGHTS AND SPECIFIED CLEARANCE REQUIREMENTS. PROVIDE FIXTURES WITH DEPTHS AT MAXIMUM PERMITTED AND AVAILABLE FOR INTENDED FIXTURE USE.
10. ALL WHEELCHAIR LAVATORY AND SINK PIPING WHERE EXPOSED SHALL BE INSULATED. PROVIDE OFFSET DRAIN FITTINGS WHERE REQUIRED TO PROVIDE MINIMUM CLEARANCES.
11. ALL SINKS FOR HANDICAPPED USE SHALL BE STAMPED WITH DRAIN OUTLET AT REAR OF BOWL.
12. PLUMBING FIXTURES SHALL BE OF WATER CONSERVATION TYPE IN ACCORDANCE WITH PLUMBING CODE REQUIREMENTS FOR WATER SAVING PERFORMANCE.
13. ORIENT ADA WATER CLOSET FLUSH VALVE WITH OPERATOR ON WIDE SIDE OF ENCLOSURE.
14. SEAL ALL SPACES BETWEEN PLUMBING FIXTURES AND MOUNTING SURFACES WITH WHITE LATEX CAULK WIPED SMOOTH AND FLUSH WITH FIXTURE.
15. FLOOR DRAINS SHALL BE INSTALLED AT LOW POINTS OF UNIFORMLY SLOPED FLOOR. CONTRACTOR SHALL FIELD COORDINATE WITH STRUCTURAL TO INSURE FLOORS ARE SLOPED UNIFORMLY ACROSS ENTIRE TOILET ROOMS OR OVER AS WIDE AN AREA AS PRACTICAL FOR OPEN AREA FLOOR DRAINS. CONVEX FLOOR SLOPE IN THE IMMEDIATE VICINITY OF THE FLOOR DRAIN IS NOT ACCEPTABLE.

WATER SOFTENER SCHEDULE

ITEM	WS-1	
EXCHANGE CAPACITY EACH TANK GRAINS REQUIRED	120,000	
NUMBER OF TANKS	(1) RESIN, (1) BRINE	
CUBIC FEET RESIN EACH TANK	4	
SERVICE RATE (GPM)	47	
BACKWASH RATE (GPM)	7	
PIPE CONNECTION SIZE	2"	
SOFT WATER OUTPUT PER GENERATION EACH TANK (GALLONS)	12,000	
BRINE TANK CAPACITY SALT (LBS)	400	
MAX. SALT PER REGENERATION (LBS)	60	
MAX. SPACE AVAILABLE EXCLUDES SERVICE ACCESS (L x W x H)	60"x36"x65"	
TANK DIMENSIONS (DIA. x HEIGHT)	SOFTENER	BRINE
	18"x65"	24"x50"
MAKE/MODEL	WATERTECH SERVICES MODEL WTS-F120 2	
REMARKS: ELECTRICAL REQUIREMENTS - 120 VAC FOR CONTROLLER (5 AMPS)		

PLUMBING PIPE MATERIAL SCHEDULE

PIPING SYSTEM	PIPING MATERIAL
SANITARY SOIL, WASTE AND VENT PIPING, BURIED WITHIN 5 FT OF BUILDING	PVC PIPE: ASTM D1785 / ASTM D2665 SCHEDULE 40 SOLID WALL; INSTALLED PER ASTM D2321.
SANITARY SOIL, WASTE AND VENT PIPING, UNBURIED WITHIN BUILDING	CAST IRON PIPE: CISPI 301 OR ASTM A888, HUBLESS.
DOMESTIC HOT& COLD WATER PIPING, BURIED WITHIN 5 FT OF BUILDING	COPPER TUBING: ASTM B88, TYPE K, SOFT ANNEALED
DOMESTIC HOT& COLD WATER PIPING, UNBURIED WITHIN BUILDING	ASTM F876 AND F877 LISTED CROSS-LINKED POLYETHYLENE (PEX) TUBING WITH ACCOMPANYING ASTM F1960 COLD EXPANSION ENGINEERED POLYMER FITTINGS WITH REINFORCING RINGS. TUBING SHALL BE ASTM F2023 TESTED AND NO LESS THAN 5106 LISTED FOR UV RESISTANCE AND FOR CHLORINE RESISTANCE FOR CONTINUOUS USAGE UP TO 140°F. SYSTEM SHALL BE LISTED FOR INSTALLATION IN RETURN AIR PLENUMS AS TESTED IN ACCORDANCE WITH ASTM E84. ALL HOT AND HOT WATER RETURN PIPING SHALL BE INSULATED AND ALL COLD WATER PIPING SUBJECT TO FREEZING SHALL BE INSULATED. PROVIDE THE MANUFACTURER'S SUPPORTS AND MINIMUM 1/2" 25/50 RATED PIPE INSULATION AS NECESSARY ON ALL OTHER COLD WATER PIPING IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS TO ACHIEVE PLENUM COMPLIANCE. BASIS OF DESIGN: UPONOR PEX-A SYSTEM. ACCEPTABLE ALTERNATE MANUFACTURER: VIEGA PUREFLOW 5306 PEX WITH ACCOMPANYING POLYMER OR LEAD-FREE BRONZE PRESS CONNECT FITTINGS. NO MIXING OF SYSTEM MANUFACTURERS SHALL BE ALLOWED. PEX MUST BE RUN CONTINUOUS, POINT TO POINT, AND ANY JOINTS MUST BE ACCESSIBLE.
DOMESTIC HOT& COLD WATER PIPING, UNBURIED WITHIN BUILDING APPARATUS BAYS	COPPER TUBING: ASTM B88, TYPE L, HARD DRAWN. ALL PIPING SHALL BE INSULATED AND PROVIDED WITH A METAL JACKET PER THE SPECIFICATIONS.
PROPANE GAS BURIED PIPING WITH 5 POUND WORKING PRESSURE OR LESS	YELLOW POLYETHYLENE WITH SOCKET HEAT FUSION JOINTS AND FITTINGS PER ASTM D2513. PIPE SIZES 1-1/2" AND 2" SHALL BE SDR 11, (PE 2406) AND PIPE SIZES 3" AND 4" SHALL BE SDR 11.5 (PE 2406).
PROPANE GAS UNBURIED WITHIN BUILDING 2" AND LARGER- WELDED CONSTRUCTION 2" AND SMALLER- SCREWED FITTINGS	ALL GAS PIPING ABOVE GROUND SHALL BE ASTM A53/A53M SCHEDULE 40 BLACK STEEL AS MANUFACTURED BY NATIONAL TUBE, REPUBLIC, YOUNGSTOWN, OR APPROVED EQUAL DOMESTIC MANUFACTURER.
FIRE SPRINKLER BURIED WITHIN 5 FT OF BUILDING	DUCTILE IRON
FIRE SPRINKLER 2" AND SMALLER (WET PIPE SPRINKLER) UNBURIED WITHIN BUILDING	ASTM A135/A135M / ASTM A53/A53M SCHEDULE 10 BLACK STEEL PIPE WITH ROLL-GROOVED ENDS, JOINED WITH MECHANICAL COUPLINGS AND WITH MANUFACTURED CARBON STEEL GROOVED FITTINGS WITH MATCHING MECHANICAL COUPLINGS FOR PIPE 2-1/2" AND LARGER.
FIRE SPRINKLER 2-1/2" AND LARGER (WET PIPE SPRINKLER) UNBURIED WITHIN BUILDING	ASTM A135/A135M / ASTM A53/A53M SCHEDULE 10 BLACK STEEL PIPE WITH ROLL-GROOVED ENDS, JOINED WITH MECHANICAL COUPLINGS AND WITH MANUFACTURED CARBON STEEL GROOVED FITTINGS WITH MATCHING MECHANICAL COUPLINGS FOR PIPE 2-1/2" AND LARGER.

NOTES: REFER TO PROJECT SPECIFICATIONS FOR FURTHER CLARIFICATION AND COMPLETE PIPING DESCRIPTION.

PLUMBING FIXTURE SUPPLIES AND TRIM

FIXTURE	MANUFACTURER	STRAINER	P-TRAP	SIZE	ANGLE STOP AND SUPPLY RISER
LAVATORY	McGUIRE	HD155A	8902	1-1/4"	LFBV2165, 1/2" I.P.S. X 3/8" O.D.
SINK	McGUIRE	151CNSS316	8903	1-1/2"	LFBV2165, 1/2" I.P.S. X 3/8" O.D.
DRINKING FOUNTAIN	McGUIRE	HD155A	8903	1-1/2"	LFBV2165, 1/2" I.P.S. X 3/8" O.D.

NOTES:

1. STRAINERS SHALL BE HEAVY CAST BRASS CHROME PLATED WITH MATCHING GRID TYPE STRAINER, WITH OR WITHOUT OVERFLOW AS REQUIRED. 17 GAUGE SEAMLESS BRASS TAILPIECE OF LENGTH DETERMINED BY INSTALLATION REQUIREMENTS. PROVIDE COMPLETE WITH WASHERS AND BRASS LOCKNUT.
2. P-TRAPS SHALL BE 17 GAUGE SEAMLESS CHROME-PLATED BRASS, ADJUSTABLE TYPE. PROVIDE COMPLETE WITH CLEANOUT PLUG, CHROME-PLATED BRASS SLIP NUTS, WALL BEND, AND WROUGHT BRASS ESCUTCHEON OF DEPTH DETERMINED BY INSTALLATION REQUIREMENTS.
3. ANGLE STOPS SHALL BE LEAD-FREE COMMERCIAL PATTERN CHROME-PLATED BRASS, QUARTER-TURN BALL TYPE WITH LOOSE KEY HANDLES. PROVIDE COMPLETE WITH CHROME-PLATED COPPER SUPPLY RISERS AND WROUGHT BRASS ESCUTCHEON OF DEPTH DETERMINED BY INSTALLATION REQUIREMENTS.
4. PIPE TRIM INSULATION SHALL BE COMPLIANT, WHITE MOLDED VINYL, FADE/DISCOLORATION-RESISTANT, BACTERIA/FUNGAL-RESISTANT INSULATION.
5. PROVIDE ZURN OR EQUAL FLOOR MOUNTED CARRIER.

PLUMBING EQUIPMENT SCHEDULE

PLAN MARK	WASTE	VENT	DRAIN	CW	HW	DESCRIPTION
GWH-1 GWH-2 GAS WATER HEATER (TANK TYPE, PROPANE)	---	---	3/4"	1-1/2"	1-1/2"	TWO COMMERCIAL LIGHT-DUTY ATMOSPHERIC VENT WITH RETURN CIRCULATION LOW NOX GAS WATER HEATERS BY BRADFORD WHITE, PROPANE (LP) MODEL LG2100H803X, 100 GALLON TANK(S), 80,000 BTUH INPUT, 78 GPH RECOVERY CAPACITY AT 100°F TEMP RISE PER TANK. EQUIP WITH ASME RATED TEMPERATURE PRESSURE AND RELIEF VALVES, 4" CONCRETE PAD, AND VENTING. COORDINATE VENTING WITH MECHANICAL. INSTALL PER MANUFACTURERS INSTRUCTIONS. REFER TO PLUMBING DETAILS.
CP-1 CIRCULATION PUMP	---	---	---	---	3/4"	GRUNDFOS ALPHA HWR 15-55 SU/T IN-LINE CIRCULATOR PUMP, 8 US GPM @ 11.01FT OF HEAD. STAINLESS STEEL PUMP HOUSING WITH COMPOSITE IMPELLER. BUILT-IN TEMPERATURE SENSOR AND TIMER CONTROLS. COORDINATE WITH ELECTRICAL CONTRACTOR FOR FINAL CONNECTION. **ELECTRICAL REQUIREMENTS: 115V/1PH**
ET-1 EXPANSION TANK	---	---	---	3/4"	---	AMTROL THERM-X-TROL MODEL ST-12, ASME THERMAL EXPANSION ABSORBERS, MAXIMUM WORKING PRESSURE 150 PSIG, TOTAL VOLUME 3.2 GALLONS.
TMV-1 THERMOSTATIC MIXING VALVE	---	---	---	3/8"	3/8"	POWERS SERIES LFE480 ASSE 1070, POINT OF USE MIXING VALVE WITH INLET CHECK STOPS TO LIMIT HOT WATER TEMPERATURE AT 105°F.
BFP-1 BACKFLOW PREVENTER DOMESTIC LINE AT WATER SOFTENER	---	---	---	2"	---	WATTS SERIES LF009 LEAD FREE REDUCED PRESSURE DOUBLE CHECK ASSEMBLY WITH INTERMEDIATE ATMOSPHERIC VENT. PROVIDE AIR GAP AND FULL SIZE INDIRECT DRAIN PIPED TO FLOOR DRAIN. INSTALL WITH SHUT-OFF VALVE AND FULL SIZE STRAINER ON INLET RISER AND SHUT-OFF VALVE ON OUTLET RISER.
TP-1 TRAP PRIMER (ELECTRONIC)	---	---	---	1/2"	---	PRECISION PLUMBING PRODUCTS MINI-PRIME ELECTRONIC TRAP PRIMING MANIFOLD SERIES WITH DISTRIBUTION UNIT (AS NEEDED) FOR UP TO 4 FLOOR DRAINS. COORDINATE WITH ELECTRICAL CONTRACTOR FOR FINAL CONNECTION.
GD-1 FOOD WASTE DISPOSER	---	---	1-1/2"	---	---	INSINKERATOR MODEL BADGER 5, SUPPLIED WITH POWER CHORD. COORDINATE WITH ELECTRICAL CONTRACTOR FOR FINAL CONNECTION. **ELECTRICAL" 1/2 HP 120V/1 PH**
SI-1 SOLIDS INTERCEPTOR	SEE PLANS	---	---	---	---	SCHIER MODEL SI-50 WITH ADJUSTABLE COVER ADAPTER, AND TRAFFIC RATED 24" CAST IRON COVER (T24-GI). REFER TO PLUMBING PLAN AND PLUMBING DETAIL.
GT-1 GREASE INTERCEPTOR	SEE PLANS	---	---	---	---	SCHIER MODEL GB-75 WITH ADJUSTABLE COVER ADAPTER, AND TRAFFIC RATED 24" CAST IRON COVER (T24-GI). REFER TO PLUMBING PLAN AND PLUMBING DETAIL.
SW-1 SAMPLE WELL	SEE PLANS	---	---	---	---	SCHIER MODEL SV10. REFER TO PLUMBING PLAN AND PLUMBING DETAIL.

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PLUMBING FIXTURE SCHEDULE

FIXTURE TAG	FIXTURE TYPE	MINIMUM ROUGH-IN SIZES: WASTE	VENT	DRAIN	CW	HW	MANUFACTURE	MODEL	DESCRIPTION
WC-1	WATER CLOSET FLOOR MOUNTED TANK TYPE (STANDARD HEIGHT)	4"	2"	4"	1/2"	---	BOWL: GERBER SEAT: GERBER	GWS31812 AVALANCHE GC550126	1.28 GALLON PER FLUSH, 12" ROUGH-IN, TWO-PIECE WHITE VITREOUS CHINA, 15-9/16" HIGH ELONGATED CLOSET BOWL, FILL VALVE, FLAPPER, AND TANK LEVER WITH ARM. ELONGATED TOP MOUNT SOFT-CLOSE QUICK-RELEASE SEAT WITH COVER, NON-SLIP BUMPERS, AND METAL ANCHOR POSTS.
WC-2	WATER CLOSET FLOOR MOUNTED TANK TYPE (ADA COMPLIANT)	4"	2"	4"	1/2"	---	BOWL: GERBER SEAT: GERBER	GWS21818 AVALANCHE GC550126	1.28 GALLON PER FLUSH, 12" ROUGH-IN, TWO-PIECE WHITE VITREOUS CHINA, 17-1/8" HIGH ELONGATED CLOSET BOWL, FILL VALVE, FLAPPER, AND TANK LEVER WITH ARM. ELONGATED TOP MOUNT SOFT-CLOSE QUICK-RELEASE SEAT WITH COVER, NON-SLIP BUMPERS, AND METAL ANCHOR POSTS.
L-1	LAVATORY UNDERMOUNTED (STANDARD HEIGHT)	2"	2"	1-1/4"	1/2"	1/2"	BOWL: KOHLER FAUCET: DELTA	K-2881 VERTICYL 554HAR-BL-DST	1.2 GPM FLOW, 19-1/4" OVAL UNDERMOUNT SINK WITH OVERFLOW DRAIN, MADE FROM VITREOUS CHINA. SINGLE HANDLE SINGLE HOLE DECK MOUNTED BATHROOM FAUCET IN MATTE BLACK WITH RIGID SPOUT. INSTALL WITH FIXED GRID DRAIN STRAINER, CHROME PLATED CAST BRASS P-TRAP, STOPS AND SUPPLIES, INSULATION KIT, AND THERMOSTATIC MIXING VALVE (TMV-1).
L-2	LAVATORY UNDERMOUNTED (ADA COMPLIANT)	2"	2"	1-1/4"	1/2"	1/2"	BOWL: KOHLER FAUCET: DELTA	K-2881 VERTICYL 554HAR-BL-DST	1.2 GPM FLOW, 19-1/4" OVAL UNDERMOUNT SINK WITH OVERFLOW DRAIN, MADE FROM VITREOUS CHINA. SINGLE HANDLE SINGLE HOLE DECK MOUNTED BATHROOM FAUCET IN MATTE BLACK WITH RIGID SPOUT. INSTALL WITH FIXED GRID DRAIN STRAINER, CHROME PLATED CAST BRASS P-TRAP, STOPS AND SUPPLIES, INSULATION KIT, AND THERMOSTATIC MIXING VALVE (TMV-1).
SH-1	SHOWER W/ LINEAR DRAIN (STANDARD)	2"	2"	2"	1/2"	1/2"	SHOWER: JOB BUILT CONTROLS: PEERLESS DRAIN: ZURN	--- PTT188782-BL PRECEPT ZS880	1.5 GPM FLOW RATE, SHOWER VALVE AND TRIM KIT WITH ADJUSTABLE SPRAY SHOWER HEAD AND PRESSURE BALANCING MIXING VALVE (ASSE 1016) WITH INTEGRAL SERVICE STOPS. STAINLESS STEEL LINEAR SHOWER DRAIN WITH VERTICALLY ADJUSTABLE ANCHORING SUPPORT LEGS, ANTI-PONDING V-SHAPED CHANNEL WITH 2" NO-HUB CENTER OUTLET, INTEGRAL MEMBRANE FLANGE, AND SECURED LINEAR (LS) SLOTTED GRATE. COORDINATE SIZE AND EXACT PLACEMENT WITH OWNER AND ARCHITECT.
SH-2	SHOWER W/ LINEAR DRAIN (ADA COMPLIANT)	2"	2"	2"	1/2"	1/2"	SHOWER: JOB BUILT CONTROLS: PEERLESS DRAIN: ZURN	--- PTT24247-BL PRECEPT ZS880	1.5 GPM FLOW RATE, SHOWER VALVE AND TRIM KIT WITH DIVERTER VALVE, SHOWER HEAD WITH ADJUSTABLE SPRAY, HAND HELD SHOWER WAND WITH 72" STAINLESS STEEL HOSE AND GRAB BAR, AND PRESSURE BALANCING MIXING VALVE (ASSE 1016) WITH INTEGRAL SERVICE STOPS. STAINLESS STEEL LINEAR SHOWER DRAIN WITH VERTICALLY ADJUSTABLE ANCHORING SUPPORT LEGS, ANTI-PONDING V-SHAPED CHANNEL WITH 2" NO-HUB CENTER OUTLET, INTEGRAL MEMBRANE FLANGE, AND SECURED LINEAR (LS) SLOTTED GRATE. COORDINATE SIZE AND EXACT PLACEMENT WITH OWNER AND ARCHITECT.
SH-3	SHOWER W/ LINEAR DRAIN (ADA COMPLIANT)	2"	2"	2"	1/2"	1/2"	SHOWER: JOB BUILT CONTROLS: PEERLESS DRAIN: ZURN	--- PTT24247-BL PRECEPT ZS880	1.5 GPM FLOW RATE, SHOWER VALVE AND TRIM KIT WITH DIVERTER VALVE, SHOWER HEAD WITH ADJUSTABLE SPRAY, HAND HELD SHOWER WAND WITH 72" STAINLESS STEEL HOSE AND GRAB BAR, AND PRESSURE BALANCING MIXING VALVE (ASSE 1016) WITH INTEGRAL SERVICE STOPS. STAINLESS STEEL LINEAR SHOWER DRAIN WITH VERTICALLY ADJUSTABLE ANCHORING SUPPORT LEGS, ANTI-PONDING V-SHAPED CHANNEL WITH 2" NO-HUB CENTER OUTLET, INTEGRAL MEMBRANE FLANGE, AND SECURED LINEAR (LS) SLOTTED GRATE. COORDINATE SIZE AND EXACT PLACEMENT WITH OWNER AND ARCHITECT.
SK-1	SINK SINGLE BOWL (STANDARD HEIGHT)	2"	2"	1-1/2"	1/2"	1/2"	FAUCET: DELTA BOWL: ELKAY	9184-BL-DST RENALDI ECTSRS33229TBG	1.8 GPM FLOW, STAINLESS STEEL 33" X 22" X 9" SINGLE BOWL DUAL MOUNT SINK KIT WITH REAR CENTER DRAIN PLACEMENT. SINGLE HANDLE PULL-DOWN KITCHEN FAUCET IN MATTE BLACK, WITH HIGH-ARC 360° SWIVELING SPOUT, RETRACTABLE HOSE, AND MAGNETIC DOCK. INSTALL WITH DRAIN STRAINER BASKET AND TAILPIECE, CHROME PLATED CAST BRASS P-TRAP, STOPS AND SUPPLIES, INSULATION KIT, THERMOSTATIC MIXING VALVE (TMV-1), AND GARBAGE DISPOSAL (GD-1).
SK-2	SINK SINGLE BOWL (ADA COMPLIANT)	2"	2"	1-1/2"	1/2"	1/2"	FAUCET: DELTA BOWL: ELKAY	9184-BL-DST RENALDI ECTSRSAD332260	1.8 GPM, STAINLESS STEEL 33" X 22" X 6" SINGLE BOWL DUAL MOUNT SINK KIT WITH REAR CENTER DRAIN PLACEMENT. SINGLE HANDLE PULL-DOWN KITCHEN FAUCET IN MATTE BLACK, WITH HIGH-ARC 360° SWIVELING SPOUT, RETRACTABLE HOSE, AND MAGNETIC DOCK. INSTALL WITH LK35 DRAIN STRAINER BASKET AND TAILPIECE, CHROME PLATED CAST BRASS P-TRAP, STOPS AND SUPPLIES, INSULATION KIT, AND THERMOSTATIC MIXING VALVE (TMV-1).
MS-1	MOP SINK	3"	2"	3"	3/4"	3/4"	BASIN: STERN-WILLIAMS FAUCET: STERN-WILLIAMS	SB-300 T-15-VB	2.5 GPM FLOW RATE, 36" X 24" X 12" RECTANGULAR TERRAZZO MOP BASIN WITH STAINLESS STEEL CAPS, CAST INTEGRAL STAINLESS DRAIN BODY, AND SS STRAINER. WALL MOUNT 2-HOLE FAUCET IN POLISHED CHROME FINISH WITH INTEGRAL STOPS, VACUUM BREAKER, LEVER HANDLES, AND BUCKET HOOK. INSTALL WITH BACK PANELS (BP), HOSE AND WALL BRACKET (T-35), AND MOP HANGER (T-40). COORDINATE OTHER OPTIONAL COMPONENTS WITH OWNER AND ARCHITECT.
WB-1	WALL BOX	---	---	---	1/2"	---	BOX: PRECISION PLUMBING PRODUCTS (PPP)	MM-500MIMB	WHITE POWDER COATED METAL ICE MAKER BOX CONSTRUCTED OF 20 GAUGE STEEL WITH WATER HAMMER ARRESTOR, QUARTER TURN BALL VALVE, MOUNTING BRACKETS, AND FACEPLATE. INSTALL BOX 54" AFF BEHIND FREE STANDING REFRIGERATOR / ICE MAKER AND 18" AFF FOR UNDER COUNTER REFRIGERATOR / ICE MAKER. LEAVE 48" OF 1/4" O.D. TYPE 'D' SOFT COPPER FOR EQUIPMENT CONNECTION. PROVIDE AQUA-PURE SST1HA STAINLESS STEEL WATER FILTRATION SYSTEM AND ZURN NO. 700XL CHECK VALVE BRACKETED TO WALL.
WMB	WASHING MACHINE WATER SUPPLY AND DRAIN BOX	2"	2"	2"	3/4"	3/4"	BOX: PRECISION PLUMBING PRODUCTS (PPP)	MM-500MLB	WHITE POWDER COATED METAL LAUNDRY BOX CONSTRUCTED OF 20 GAUGE STEEL WITH WATER HAMMER ARRESTORS, QUARTER TURN BALL VALVES, MOUNTING BRACKETS, 2" RUBBER DRAIN PIPE COUPLING, AND FACEPLATE. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT MOUNTING LOCATION.
HB-1	HOSE BIBB	---	---	---	3/4"	---	FAUCET: NIBCO	QT SERIES	EXPOSED TYPE, MILD CLIMATE, QUARTER-TURN WALL-MOUNTED FAUCET WITH 3/4" FPT INLET AND 3/4" MALE HOSE THREAD OUTLET MADE OF BRASS. INSTALL WITH SELF-DRAINING ANTI-SIPHON, VACUUM BREAKER. COORDINATE EXACT MOUNTING LOCATION WITH OWNER AND ARCHITECT.
FD-1	FLOOR DRAIN	SEE PLAN	2"	SEE PLAN	---	---	DRAIN: ZURN	ZN415B	CAST IRON BODY WITH BOTTOM OUTLET, COMBINATION INVERTIBLE MEMBRANE CLAMP AND ADJUSTABLE COLLAR WITH SEEPAGE SLOTS AND "TYPE B" POLISHED NICKEL BRONZE, LIGHT-DUTY HEEL-PROOF STRAINER, TRAP PRIMER CONNECTION, AND 4" DIAMETER FUNNEL GRATE WHERE APPLICABLE. .
FS-1	FLOOR SINK	SEE PLAN	2"	SEE PLAN	---	---	DRAIN: ZURN	ZN1901	12" SQUARE, 8" DEEP CAST IRON DRAIN WITH ENAMELED INTERIOR AND TOP, SEDIMENT BUCKET STRAINER AND SECURED HALF NICKEL BRONZE GRATE. PROVIDE TRAP PRIMER CONNECTION.
FS-2	FLOOR SINK	SEE PLAN	2"	SEE PLAN	---	---	DRAIN: MIFAB	FS1520	8" SQUARE, 6" DEEP CAST IRON DRAIN WITH PORCELAIN ENAMEL COATED INTERIOR, ALUMINUM DOME STRAINER, AND HALF NICKEL BRONZE GRATE. PROVIDE TRAP PRIMER CONNECTION.
TD-1	TRENCH DRAIN (LAUNDRY)	4"	2"	4"	---	---	DRAIN: ABT, INC.	TS12-12-208C-FG-F21G	LAUNDRY TRENCH DRAINAGE SYSTEM. REFER TO PLUMBING PLAN AND PLUMBING DETAIL. PROVIDE TRAP PRIMER CONNECTION.
WCO	WALL CLEANOUT	4"	---	---	---	---	CLEANOUT: SIOUX CHIEF	873	CAST IRON CLEANOUT FERRULE WITH BRASS PLUG AND ROUND 20 GAUGE STAINLESS STEEL COVER PLATE WITH CENTER SECURING SCREW.
FCO	FLOOR CLEANOUT	4"	---	---	---	---	CLEANOUT: SIOUX CHIEF	834-64DNRV	BOTTOM OUTLET DUCTILE IRON BODY, ADJUSTABLE 6-1/2" DIAMETER NICKEL BRONZE RING AND COVER WITH VANDAL-RESISTANT SCREWS.
ECO	EXTERIOR CLEANOUT TO GRADE	4"	---	---	---	---	CLEANOUT: SIOUX CHIEF	834-64DIRV	BOTTOM OUTLET DUCTILE IRON BODY, ADJUSTABLE 6-1/2" DIAMETER DUCTILE IRON RING AND COVER WITH VANDAL-RESISTANT SCREWS. IF LOCATED IN ASPHALT OR DIRT PROVIDE 18" X 18" X 12" CONCRETE PAD.

8

* - REFER TO DRAWINGS FOR SIZING.

NOTES:

1. FOR ALL SUPPLY STOPS AND TRIM REFER TO THE PLUMBING FIXTURE SUPPLIES AND TRIM SCHEDULE.
2. FOR MOUNTING HEIGHTS OF INDIVIDUAL FIXTURES, REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION.
3. CONTRACTOR TO COORDINATE LOCATION OF DRAINS AND FLOOR SINKS WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS.

FIRE PUMP SCHEDULE

ITEM	DESCRIPTION	TYPE	GPM	PSI	H.P. MIN.	VOLT/ PHASE	MAX. RPM	MANUFACTURER AND MODEL
FP-1	FIRE PUMP	IN-LINE VERTICAL SINGLE STAGE	500	60	20	208/3	3600	PATTERSON #5X3 VIP
JP-1	JOCKEY PUMP	VERTICAL MULTI-STAGE	5	70	0.5	208/3	3450	GRUNDFOS #CR1-19033646-T

NOTES:
1. FIRE PUMP CONTROLLER WITH ATS AND SOFTSTART: FIRETROL MODEL #FTA-1930
2. JOCKEY PUMP CONTROLLER: FIRETROL MODEL #FTA-550F
3. PROVIDE FIRE PUMP SYSTEM COMPLETE WITH PUMP, DRIVER, CONTROLLER AND ACCESSORIES.
4. FIRE PUMP SHALL DELIVER NOT LESS THAN 150% OF RATED FLOW AT A PRESSURE NOT LESS THAN 65% OF RATED PRESSURE. SHUT OFF PRESSURE SHALL NOT EXCEED 140% OF RATED PRESSURE.
5. EXPECTED SUCTION PRESSURE IS 20 PSIG.
6. PROVIDE 6"X5" EXCENTRIC TAPERED SUCTION REDUCER AND 3"X6" CONCENTRIC TAPERED DISCHARGE INCREASER.
7. PROVIDE 6" FIRE PUMP BYPASS COMPLETE WITH LISTED CHECK VALVE.
8. PROVIDE 4" HOSE VALVE TEST HEADER SUPPLY (UNLESS PIPE LENGTH EXCEEDS 15', VERIFY IN FIELD AND INCREASE PIPE SIZE IN ACCORDANCE WITH NFPA 20).
9. PROVIDE WALL-MOUNTED HOSE VALVE TEST HEADER WITH A MINIMUM OF (2) 2-1/2" HOSE VALVES, NST THREAD, COMPLETE WITH CAPS AND CHAINS.
10. PROVIDED SYSTEM PIPING TO A FIRE DEPARMENT CONNECTION COMPLETE WITH LISTED CHECK VALVE & APPROVED AUTOMATIC DRAIN VALVE, IN ACCORDANCE WITH NFPA AND LOCAL AHJ REQUIREMENTS.

COMPRESSED AIR EQUIPMENT SCHEDULE

EQUIPMENT	DESCRIPTION
HR-1 HOSE REEL	GRACO XD 30 SERIES SPRING RETRACTABLE HOSE REEL ASSEMBLY WITH ADJUSTABLE ARM, HOSE, BALL STOP KIT AND ROLLER GUIDE. PART NO. HSLC8#. HOSE LENGTH 75 FT, INLET SIZE 1/2"Ø. PROVIDE QUICK CONNECT AND HOSE INLET KIT. COORDINATE HOSE REEL COLOR AND ACCESSORIES WITH ARCHITECT, OWNER, AND OTHER DISCIPLINES. INSTALL AS PER MANUFACTURERS GUIDELINES AND REQUIREMENTS. REFER TO HOSE REEL DETAIL.
AIR DROP	REFER TO AIR OUTLET / DROP PLUMBING DETAIL AND PROJECT SPECIFICATIONS.

EMERALD MEP
TX FIRM No. F-24826
PROJECT No. 25018

PROFESSIONAL SEAL

STATE OF TEXAS
M. JACQUELINE CHANG
124987
LICENSED
PROFESSIONAL ENGINEER
2026-11-04

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Martinez Architects

Civil
Hill Country Civil

Landscape
Evergreen Landscape Group

Structural
Matrix Structural

MEP
Emerald MEP

Technology
Imagine IT

Alerting
WestNET

STATION #42

Hays County ESD #4
Wimberley, TX 78676

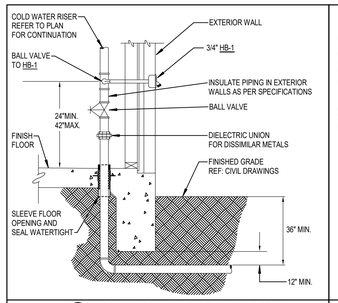
PROJECT No: MA 25016
DATE: 20-OCT-2026

ISSUE #

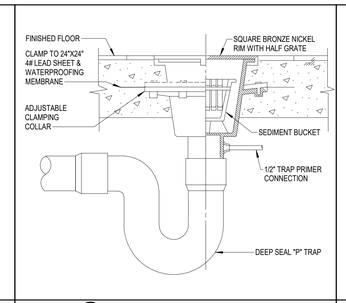
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2	50% CD	23-FEB-2026
3	75% CD	06-APR-2026
4	98% CD	04-MAY-2026
5	IFP	01-JUN-2026
6	IFB	20-OCT-2026
8	ADDENDUM#4	04-NOV-2026

PLUMBING SCHEDULES AND NOTES

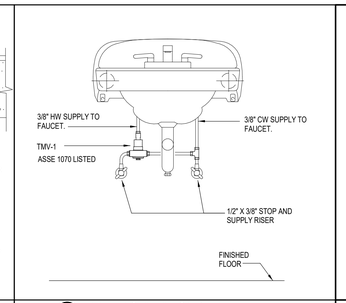
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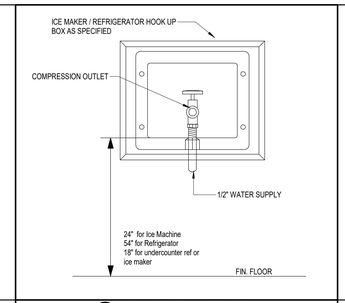
1 DOMESTIC WATER PIPE ENTRY DETAIL
NOT TO SCALE



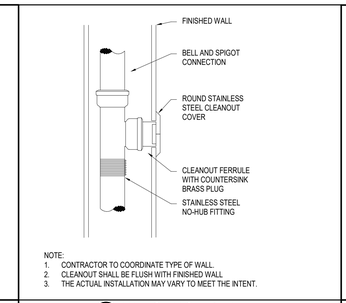
2 FLOOR SINK DRAIN DETAIL
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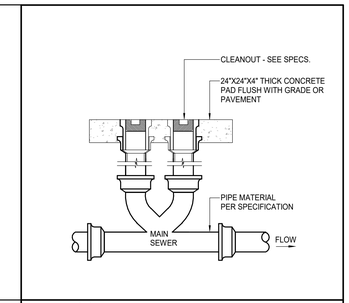
3 TMV-1 INSTALLATION DETAIL
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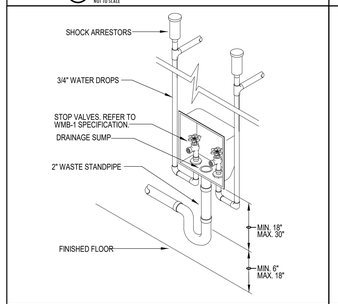
4 WALL BOX DETAIL (WB-1)
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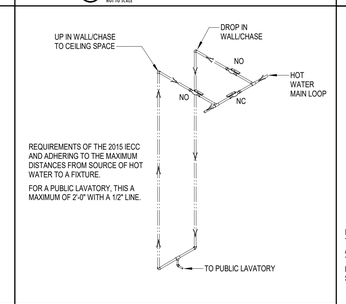
5 WALL CLEANOUT DETAIL
NOT TO SCALE



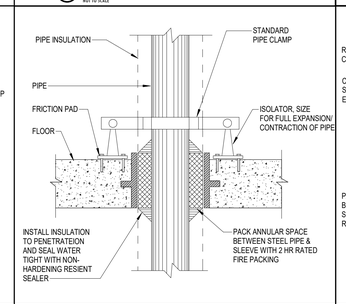
6 TWO-WAY EXTERIOR CLEANOUT (TWCO)
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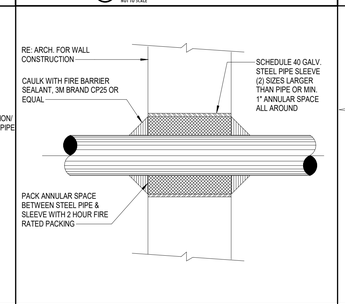
7 WASHING MACHINE BOX (WMB-1)
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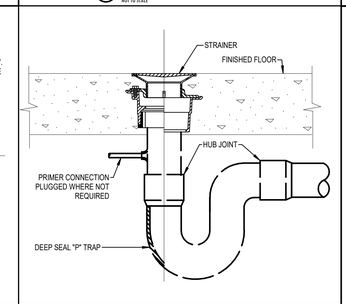
8 HOT WATER LOOP DETAIL W/BYPASS
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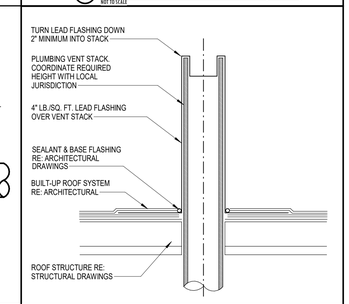
9 FIRE RATED FLOOR PENETRATION
NOT TO SCALE



10 FIRE WALL PIPE PENETRATION
NOT TO SCALE

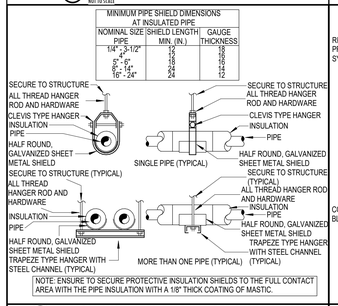


11 FLOOR DRAIN DETAIL
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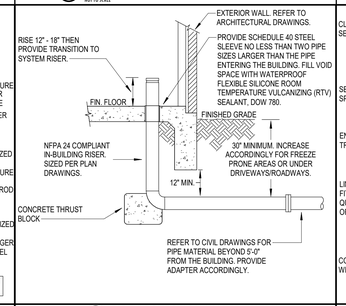
12 VENT THRU ROOF (VTR)
NOT TO SCALE

MINIMUM PIPE SHIELD DIMENSIONS AT INSULATED PIPE		
NOMINAL SIZE PIPE	SHIELD LENGTH MIN. (IN.)	GAUGE THICKNESS
1/4" - 3 1/2"	12	16
4" - 5"	24	16
6" - 14"	24	12
16" - 24"	24	12

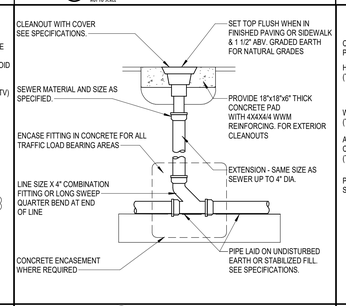


NOTE: ENSURE TO SECURE PROTECTIVE INSULATION SHIELDS TO THE FULL CONTACT AREA WITH THE PIPE INSULATION WITH A 1/8" THICK COATING OF MASTIC.

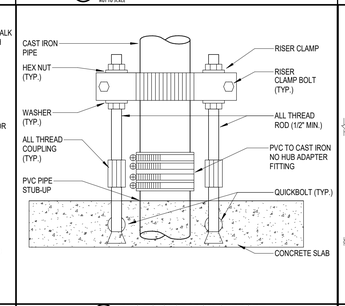
13 TYPICAL INSULATED PIPE HANGER INSTALLATION
NOT TO SCALE



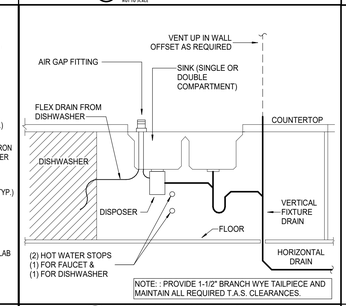
14 FIRE PROTECTION WATER ENTRY
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15 CLEANOUT DETAIL
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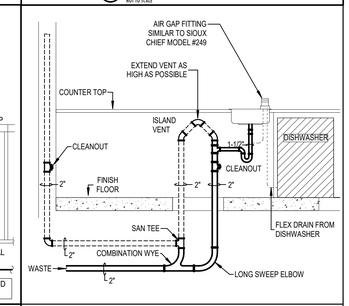


16 PVC TO CAST IRON SUPPORT
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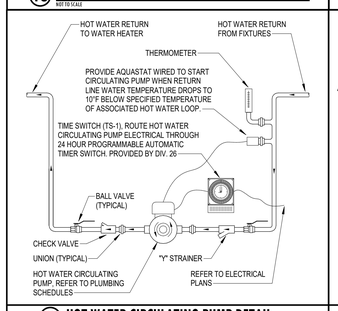


NOTE: : PROVIDE 1-1/2" BRANCH WYE TAILPIECE AND MAINTAIN ALL REQUIRED T.A.S. CLEARANCES.

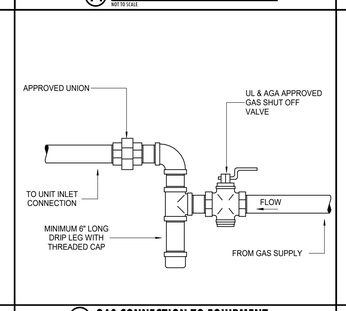
17 DISHWASHER CONNECTION DETAIL
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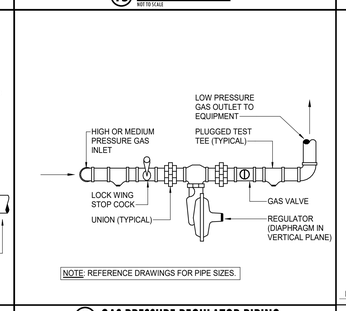
18 ISLAND SINK VENTING DETAIL
NOT TO SCALE



20 HOT WATER CIRCULATING PUMP DETAIL
NOT TO SCALE

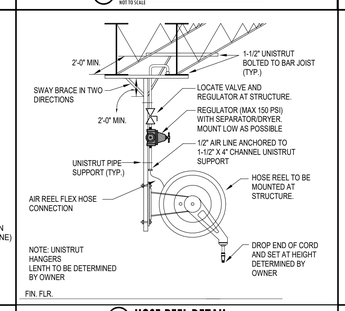


21 GAS CONNECTION TO EQUIPMENT
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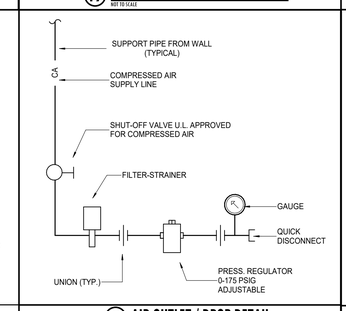


NOTE: REFERENCE DRAWINGS FOR PIPE SIZES.

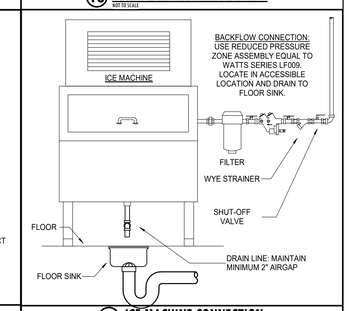
22 GAS PRESSURE REGULATOR PIPING
NOT TO SCALE



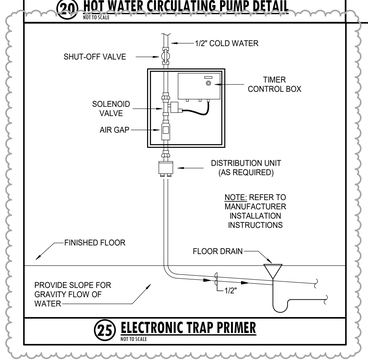
23 HOSE REEL DETAIL
NOT TO SCALE



24 AIR OUTLET / DROP DETAIL
NOT TO SCALE



19 ICE MACHINE CONNECTION
NOT TO SCALE



8

25 ELECTRONIC TRAP PRIMER
NOT TO SCALE

EMERALD MEP
TX FIRM No. F-24826
PROJECT No. 25018

PROFESSIONAL SEAL

STATE OF TEXAS
M. JACQUELINE CHANG
124987
LICENSED
PROFESSIONAL ENGINEER
2026-17-04

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Matrix Structural

MEP
Emerald MEP

Technology
Imagine IT

Alerting
WestNET

STATION #42
Hays County ESD #4
Wimberley, TX 78676

PROJECT No: **MA 25016**
DATE: **20-OCT-2026**

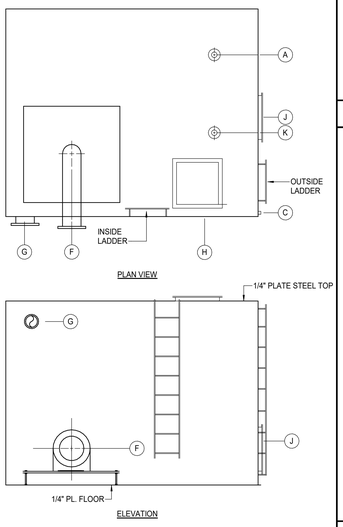
ISSUE

1	100% DD	06-JAN-2026
2	50% CD	23-FEB-2026
3	75% CD	06-APR-2026
4	98% CD	04-MAY-2026
5	IFP	01-JUN-2026
6	IFB	20-OCT-2026
8	ADDENDUM#4	04-NOV-2026

PLUMBING DETAILS

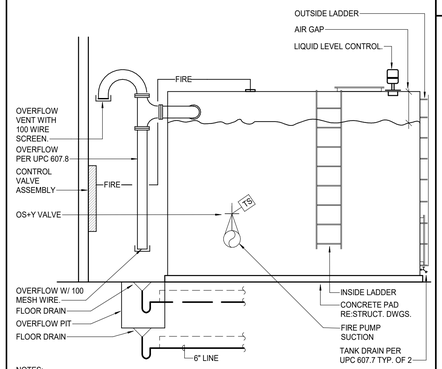
P-601

SCHEDULE OF OPENINGS					
MARK	REQ.	SIZE	TYPE	STD	DESCRIPTION
A	1	8"	FFSOF	150#	FIRE FILL LINE CONNECTION
B	1	3"	FFSOF	150#	MANUAL FILL
C	1	2"	H.CPLG	3000#	DRAIN
D	-	-"	-	-	
E	-	-"	-	-	
F	1	6"	FFSOF	150#	FIRE PUMP SUCTION
G	1	4"	FFSOF	150#	OVERFLOW-FIRE
H	1	30"x30"	FAB	-	MANWAY-TOP
J	1	30"x30"	FAB	-	MANWAY-SIDE
K	2	1.5"	FAB	PVC	ELECTRODE FLANGE



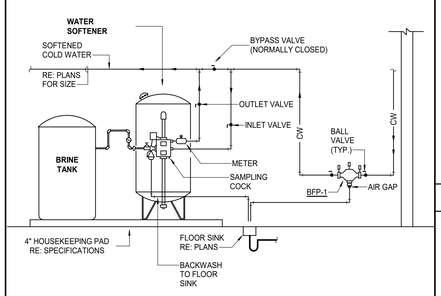
PLAN VIEW

ELEVATION



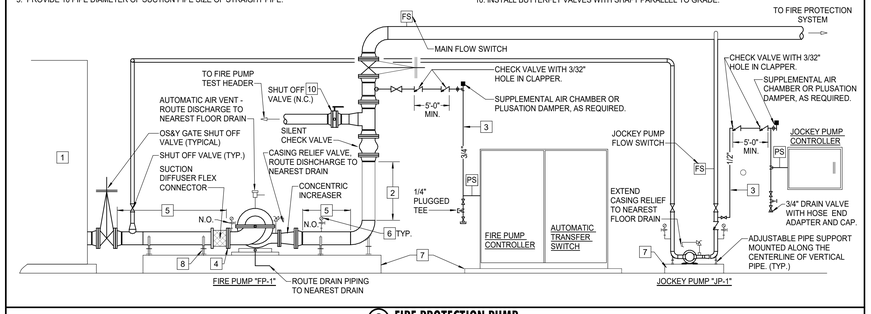
NOTES:
1. SURGE TANK LEVEL ALARM PANEL INSIDE PUMP HOUSE.
2. FILL VALVE CONTROL ASSEMBLY INSIDE PUMP HOUSE. REFER TO DETAIL IN THIS SHEET.
3. TANK SHALL BE EQUIPPED WITH TIGHT VERMIN-PROOF COVERS.
4. FINAL SIZES TO BE DETERMINED BY FIRE PROTECTION ENGINEER.

1 FIRE PROTECTION SURGE TANK
NOT TO SCALE

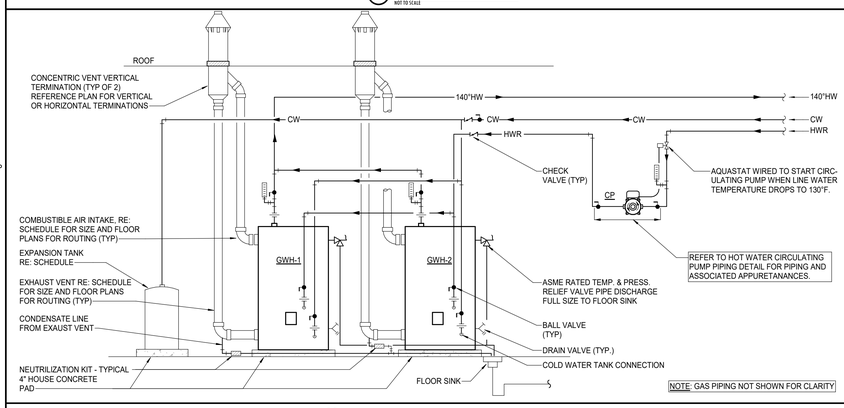


4 WATER SOFTENING SYSTEM (WS-1)
NOT TO SCALE

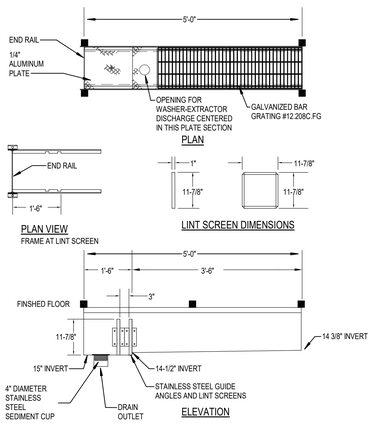
KEYED NOTES:
1. COMBINATION FIRE/DOMESTIC WATER BREAK TANK PROVIDED BY THE DIVISION 22 CONTRACTOR
2. MINIMUM FOUR (4) DIAMETERS.
3. SENSING PIPING AND FITTINGS FROM CONTROLLERS TO FIRE PROTECTION PIPING SHALL BE COPPER OR STAINLESS STEEL.
4. FOR PIPING THAT DOES NOT MATCH THE SUCTION CONNECTION ON PUMP PROVIDED A ECCENTRIC REDUCER.
5. PROVIDE 10 PIPE DIAMETER OF SUCTION PIPE SIZE OF STRAIGHT PIPE.
6. GUAGE AND GUAGE COCK.
7. CONCRETE PAD (RE: SPECIFICATION FOR CONSTRUCTION AND HEIGHT)
8. ADJUSTABLE PIPE SADDLE SUPPORT.
9. MOUNT JOCKEY PUMP ON RUBBER IN SHEAR ON ISOLATION PADS ON CONCRETE PAD (RE: SPECIFICATION FOR HEIGHT AND CONSTRUCTION.)
10. INSTALL BUTTERFLY VALVES WITH SHAFT PARALLEL TO GRADE.



2 FIRE PROTECTION PUMP
NOT TO SCALE



3 GAS WATER HEATER PIPING
NOT TO SCALE

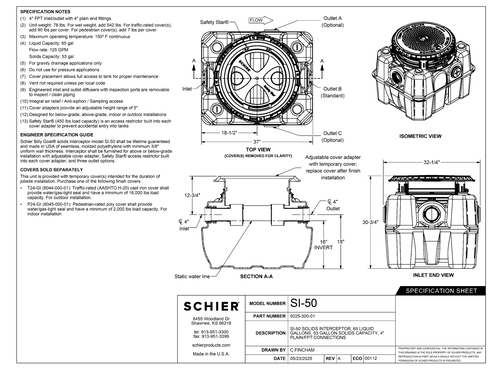


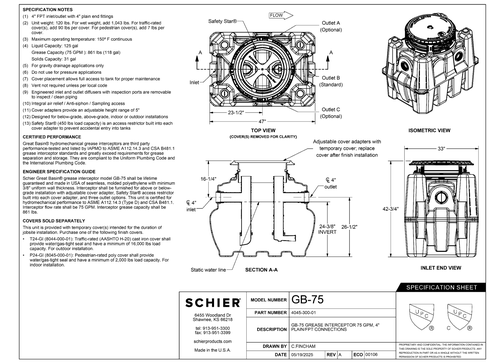
NOTE:

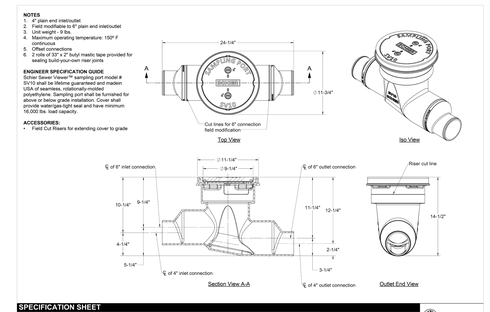
WASHING MACHINE TRENCH DRAIN / LINT TROUGH, 12" CAST IN PLACE WITH PRE-SLOPED EPS FORMERS, GALVANIZED FRAME AND BAR GRATES, STAINLESS STEEL ANGLE AND FILTER SCREENS. SYSTEM IS BASED ON AN OVERALL 5'-0" LONG TRENCH (MINIMUM). LENGTH MAY EXCEED THIS AND ADJUSTMENTS MUST BE MADE AS REQUIRED. REFER TO PLUMBING PLANS AND SCHEDULES AND MANUFACTURER PRODUCT DATA.

ABT, INC. (SYSTEM ID SERIES): TS12-12-208C-FG-F21G

5 COMM. WASHER TRENCH DRAIN (TD-1)
NOT TO SCALE

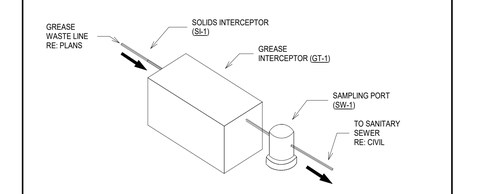






GREASE INTERCEPTOR CALCULATION HYDROMECHANICAL INTERCEPTOR SIZING USING GRAVITY FLOW RATES				
FIXTURE	DIMENSIONS	QTY	CU IN	FLOW RATE
SINK (SK-1)	33" X 22" X 09"	1	6,534	11 GPM
SINK (SK-2)	33" X 22" X 06"	1	4,356	10 GPM
DISHWASHER	5 GALLON	2	2,310	5 GPM
ICE MACHINE	N/A	1	N/A	0.5 GPM
			TOTAL	27 GPM

FIXTURE FLOW RATE: (CU IN / 231) = GAL X 0.75 / 2 MIN = 2 MIN FLOW RATE



6 HYDROMECHANICAL GREASE INTERCEPTOR
NOT TO SCALE

EMERALD MEP
TX FIRM No. F-24826
PROJECT No. 25018

PROFESSIONAL SEAL

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2026-10-04

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PLUMBING DETAILS

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