



EDINBURG CISD

PURCHASING DEPARTMENT

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ADDENDUM 3
CSP 23-02
UTRGV-EDINBURG CISD COLLEGIATE HIGH SCHOOL
October 3, 2022

I. INSTRUCTIONS:

- A. The following changes, omissions or alterations to the specification and drawings shall be made insofar as the specifications and drawings are inconsistent with following, this addendum shall govern.
- B. Acknowledge receipt of this addendum by inserting its number and date of issue in the place provided for same in the proposal. This addendum forms a part of the Contract Documents.
- C. It is imperative that this addendum be inserted INTO set of specifications.

II. SEE ADDENDUM BELOW:

- 1. **Please see attached modified plans/specifications.**
- 2. **Replace page 10 from the previous front end documents with the attached updated page 10.**

Respectfully Submitted,

Amaro Tijerina
Director of Purchasing

(Signature of authorized officer)

Date

Company Name

Nondiscrimination Statement

It is the policy of Edinburg CISD not to discriminate on the basis of gender, age, handicap, religion, race, color, or national origin in its educational programs.
Es poliza del Distrito Escolar de Edinburg et no discriminar por razones con base en genero, edad, religion, raza, color origen nacional, ni discapacidad dentro de sus programas educacionales.

ORIGINAL PROPOSAL FORM MUST BE SUBMITTED ALONG WITH THE PROPOSAL AND CONTRACT DOCUMENTS BOOKLET

BIDDERS BOND in the amount of \$ _____, (5%) of the greatest amount proposal in compliance with the INSTRUCTION TO BIDDERS.

The above Cashier's Check or Bidder's Bond is to become the property of the OWNER, in the event the construction contract (when offered by the Owner) and bonds are not executed within the time set forth.

| Item No. | Item Description | Total |
|----------|------------------|-------|
| 1. | | |
| 2. | | |
| 3. | | |
| 4. | | |

GRAND TOTAL PROPOSAL IMPROVEMENTS: (Items 1-4): \$ _____

The undersigned agrees, unless hereinafter stated otherwise to furnish all materials as shown and specified in the Plans and Specifications. Please attach supplemental spreadsheet detailing equipment, materials, demolition, labor, etc.

Bidder hereby agrees to commence work under this contract within 10 days after "NOTICE TO PROCEED" is issued, and to substantially complete work in the Contract within 15 months from the "NOTICE TO PROCEED". Prospective General Contractors will provide a statement regarding substantial completion if proposed fifteen-month time frame will not suffice. Ranking criteria will undoubtedly be impacted by changes to proposed timeline. Highest ranked bidder should anticipate a healthy negotiations phase.

_____ Number of days to achieve substantial completion (in numerical form and written)

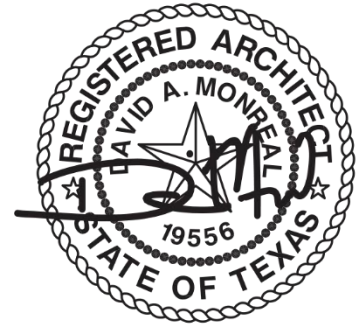
The undersigned bidder acknowledges the receipt of the following addenda:

| ADDENDUM NO. | DATE | BY |
|----------------|------|----|
| ADDENDUM NO. 1 | | |
| ADDENDUM NO. 2 | | |
| ADDENDUM NO. 3 | | |
| ADDENDUM NO. 4 | | |

October 3, 2022

UTRGV/EDINBURG CISD COLLEGIATE HIGH SCHOOL

GOMEZ MENDEZ SAENZ, INC.
1150 PAREDES LINE RD.
BROWNSVILLE, TEXAS 78526
(956) 546-0110



ADDENDUM NO. 3

A. PURPOSE AND INTENT

This addendum is issued for the purpose of modifying the plans and specifications for the *UTRG/EDINBURG CISD COLLEGIATE HIGH SCHOOL*.

This addendum shall become part of the contract and all CONTRACTORS shall be bound by its content. All aspects of the specifications and drawings not covered herein shall remain the same.

The General Conditions and the Special Conditions of the specifications shall govern all parts of the work and apply in full force to this Addendum.

B. SCOPE

I. CLARIFICATIONS:

1. Acoustical Sound Blades indicated in Contract Documents shall be Basis of Design from following manufacturer:
 - Chroma Collections
 - Open Plenum Solutions - Vertical Baffles
 - Color Selections from all BOLD and BASICS complete range of manufactures colors.
2. Pre-Cast Concrete Treads at stairs indicated in Contract Documents shall be Basis of Design from following manufacturer:
 - Wausau Tile
 - C60 Self Supporting Tread
 - Color Selection shall be: G33Y Misty Gray

II. SPECIFICATIONS:

1. Section 055213 – Pipe and Tube Railings
Part 2 Products, Section 2.3 Steel Railings Item E Architectural Wire Mesh Infill: REVISE woven wire mesh finish to *Plain Steel (to be painted)* in lieu of Stainless Steel.

2. Section 087100 – Door Hardware
DELETE previously issued Section 087100 Door Hardware with Section 087100 Door Hardware attached to this Addendum. (Door Opening Numbers added to each Hardware Group)
3. Section 106500 – Operable Partitions
Specification Section 106500 Operable Partitions included in this addendum shall be part of the Contract Documents.
4. Section 123000 Manufactured Casework
Subject to compliance with this section: *BND Architectural Woodwork LLC*. shall be an approved manufacturer.

III. PLANS:

1. Sheet A2.01
 - a. Add Operable Partition
 - b. Revise window locations and dimensions to accommodate operable partition.
2. Sheet A2.03
 - a. Add Operable Partition
 - b. Revise window locations and dimensions to accommodate operable partition.
3. Sheet A2.04
 - a. Add Operable Partition
 - b. Revise window locations and dimensions to accommodate operable partition.
4. Sheet A2.06
 - a. Add Operable Partition
 - b. Revise window locations and dimensions to accommodate operable partition.
5. Sheet A2.07
 - a. Add Operable Partition door type designation.
 - b. Revise window locations and window type designation.
 - c. Add room signage elevations.
6. Sheet A2.08
 - a. Add Operable Partition door type designation.
 - b. Revise window locations and window type designation.
 - c. Revise note for USG True Wood Panels in lieu of Armstrong Woodworks Linear.
7. Sheet A2.09
 - a. Revise note for USG True Wood Panels in lieu of Armstrong Woodworks Linear.
 - b. Revise note for USG Paraline Baffles Linear in lieu of Armstrong Metal Works.
 - c. Revise note for USG Celebration Torsion Spring System in lieu of Armstrong Metal Works Torsion Spring.
8. Sheet A2.10

- a. Revise note for USG True Wood Panels in lieu of Armstrong Acoustical Vertical Wall Panel.
 - b. Revise note for Vertical Baffels by Chroma Collections.com in lieu of Armstrong Metal Works.
 - c. Clarification at suspended wood clouds at Collaboration Space 170. Wood Clouds to be set at 30'-0" from first floor finish floor.
9. Sheet A2.11
- d. Revise note for USG True Wood Panels in lieu of Armstrong Acoustical Vertical Wall Panel.
10. Sheet A3.01
- a. Add Operable Partition
11. Sheet A3.15, A3.16, A3.17, A3.18 and A3.19
- a. Revisions to Stairs
12. Sheet A5.01
- a. Revisions to West Elevation windows and accent brick to accommodate operable partition.

- **Civil Addendum Items: Refer to attached information (1 Pages including cover sheet)**
- **Structural Addendum Items: Refer to attached information (6 Pages including cover sheet)**
- **MEP Addendum Items: Refer to attached information (16 Pages including cover sheets)**

End of Addendum 3

SECTION 08 7100
DOOR HARDWARE

PART 1 - GENERAL

1.01 DESCRIPTION OF WORK

- A. Work under this section comprises of furnishing and installing hardware specified herein and noted on drawings for a complete and operational system, including any electrified hardware components, systems, controls and hardware for aluminum entrance doors. Any door shown on the drawing and not specifically referenced in the hardware sets shall be provided with identical hardware as specified on other similar openings and shall be included in the finish hardware suppliers bid. All fire rated door shall be provided with fire rated hardware as required by local code Authority as part of the hardware supplier's base bid. The hardware supplier shall verify all cylinder types specified for all special doors with locking devices furnished as a part of the door system.
- B. The General Contractor and the Hardware Supplier shall notify the Architect in writing of any discrepancies (five (5) days prior to bid date) that could and/or would result in hardware being supplied that is none functional, hardware specified and/or hardware that has not been specified that will result in any code violations and any door that is not covered in this specification. Failure of the general contractor and hardware supplier to address any such issue shall be considered acceptance of the hardware specified and all discrepancies shall be corrected at the general contractor and hardware supplier's expense and considered a part of their base bid. Change orders shall not be issued if deemed by the Architect and/or Edinburg CISD to fall under and/or be covered as a part of the contractor and supplier's base bid, due to failure to comply with this instruction notification.
- C. Items include but are not limited to the following:
1. Hinges - Pivots
 2. Flush Bolts
 3. Exit Devices
 4. Locksets and Cylinders
 5. Push Plates - Pulls
 6. Coordinators
 7. Closers
 8. Kick, Mop and Protection Plates
 9. Stops, Wall Bumpers, Overhead Controls
 10. Electrified Hold Open Devices
 11. Thresholds, Seals and Door Bottoms
 12. Silencers
 13. Miscellaneous Trim and Accessories

1.02 RELATED DOCUMENTS, drawings and general provisions of contract, including General and Supplementary Conditions, and Division 1 Specification sections, apply to this section.

1.03 RELATED WORK specified elsewhere that should be examined for its effect upon this section:

- A. Section 06 20 00 - Finish Carpentry
- B. Section 08 11 13 – Steel Doors and Frames
- C. Section 08 14 16 – Flush Wood Doors
- D. Sections within 08 31 13 – Access Doors
- E. Section within 08 41 13 – Aluminum Entrances, Storefront and Window Framing
- F. Sections within 08 80 00 – Glass and Glazing

- G. Sections within 09 91 00 – Painting
- H. Section 13 48 00 – Sound Control
- I. Division 26 – Electrical
- J. Division 28 – Access Control

1.04 REFERENCES SPECIFIED in this section subject to compliance as directed:

- A. NFPA-80- Standard for Fire Doors and Windows
- B. NFPA-101 - Life Safety Code
- C. ADA - The Americans with Disabilities Act - Title III - Public Accommodations
- D. ANSI-A 117.1 - American National Standards Institute - Accessible and Usable Buildings and Facilities
- E. ANSI-A 156.5 - American National Standards institute -Auxiliary Locks and Associated Products
- F. UFAS - Uniform Federal Accessibility Standards
- G. UL - Underwriter's Laboratories
- H. WHI - Warnock Hersey International, Testing Services
- I. State and Local Codes including Authority Having Jurisdiction
- J. UL10C – Positive Pressure
- K. IBC-2018 - International Building Code
- L. NFPA-70 – National Electrical Code

1.05 SUBMITTALS

- A. HARDWARE SCHEDULES submit copies of schedule in accordance with Division 1, General Requirements. Schedule to be in vertical format, listing each door opening, including, handing of opening, all hardware scheduled for opening or otherwise required to allow for proper function of door opening as intended, and finish of hardware. At doors with door closers or door controls include degree of door opening. Supply the schedules all Finish Hardware within two (2) weeks from date purchase order is received by the hardware supplier.
- B. Submit manufacturer's cut/catalog sheets on all hardware items and any required special mounting instructions with the hardware schedule.
- C. Certification of Compliance:
 - 1. Submit any information necessary to indicate compliance to all of these specifications as required.
 - 2. Submit a statement from the manufacturer that electronic hardware and systems being supplied comply with the operational descriptions exactly as specified.
- D. Submit any samples necessary as required by the Architect.
- E. Templates for finish hardware items to be sent to related door and frame suppliers within three (3) working days of receipt of approved hardware schedule.
- F. Electronic Security Hardware: Coordinate installation of the electronic security with the Architect and provide installation and technical data to the Architect and other related sub-contractor(s). Upon completion of the electronic security hardware installation, verify that all components are working properly and state in the required guarantee that this inspection has been performed.
- G. Wiring Diagrams: Provide complete wiring diagrams for each opening requiring electrified hardware, except openings where only magnetic hold-opens are specified. Provide a

copy with each hardware schedule submitted after approval. Supply a copy with delivery of hardware to job site and another copy to owner at time of job completion.

- H. Doors and Frames used in positive pressure opening assemblies shall meet UL10C in areas where this specification includes Seals for smoke door.

1.06 QUALITY ASSURANCE

- A. Hardware supplier to be a qualified, Factory Authorized, direct distributor of the products to be furnished. In addition, the supplier to have in their regular employment an A.H.C. or person of equivalent experience who will be made available at reasonable times to consult with the Architect/Contractor and/or Edinburg CISD regarding any matters affecting the finish hardware on this project.
- B. All hardware used in labeled fire or smoke rated openings to be listed for those types of openings and bear the identifying label or mark indicating UL. (Underwriter's Laboratories) approved for fire. Exit devices in non-labeled openings to be listed for panic.

1.07 DELIVERY, HANDLING AND PACKAGING

- A. Furnish all hardware with each unit clearly marked and numbered in accordance with the hardware schedule. Include door and item number for each.
- B. Pack each item of hardware completes with all necessary parts and fasteners.
- C. Properly wrap and cushion each item to prevent scratches and dents during delivery and storage.

1.08 SEQUENCING AND SCHEDULING

- A. Any part of the finish hardware required by the frame or door manufacturers or other that is needed in order to produce doors or frames is to be sent to those suppliers in a timely manner, so as not to interrupt job progress.

1.09 WARRANTY

- A. All finish hardware shall be supplied with a Two- (2) year warranty against defects in materials and workmanship, commencing with substantial completion of the project except as follows:
 - 1. All Closers to have a thirty-(30) year written warranty.
 - 2. All Exit Devices to have a three-(3) year written warranty.
 - 3. All Locksets to have a ten-(10) year written warranty.
 - 4. All Continuous Hinges to have a ten-(10) year written warranty.

PART 2 – PRODUCTS

2.01 FASTENERS

- A. Furnish with finish hardware all necessary screws, bolts and other fasteners of suitable size and type to anchor the hardware in position for a long life under hard use.
- B. Furnish fastenings where necessary with expansion shields, toggle bolts and other anchors designated by the Architect according to the material to which the hardware is to be applied and the recommendations of the hardware manufacturer. All closers and exit

devices on labeled wood doors shall be through bolted if required by the door manufacturer. All thresholds shall be fastened with machine screws and anchors. Where specified in the hardware sets, security type fasteners of the type called for are to be supplied.

- C. Design of all fastenings shall harmonize with the hardware as to material and finish.

2.02 ENVIRONMENTAL CONCERN FOR PACKAGING

- A. Hardware shipped to the project jobsite is to be packaged in biodegradable packs such as paper or cardboard boxes and wrapping.

2.03 HINGES

- A. All hinges to be of one manufacturer as hereafter listed for continuity and consideration of warranty. Provide one of the following manufacturers Ives, Mc Kinney or Stanley.
- B. Unless otherwise specified provide five-knuckle, heavy-duty, button tip, full mortise template type hinges with non-rising loose pins. Provide non-removable pins for out swinging doors at secured areas or as called for in this specification.
- C. Provide all exterior out-swinging door hinges of solid bronze or stainless steel with non-removable pins or security studs as called for in this specification, unless otherwise specified in 3.02 Hardware Sets.
- D. Provide interior hinges manufactured from bronze, steel, stainless steel that matches the specified finish shown on other hardware items. Furnish three (3) hinges up to 90 inches high and one (1) additional hinge for every 30 inches or fraction thereof.
- E. Provide size 4½" x 4½" for all 1¾" thick doors up to and including 36 inches wide. Doors over 1¾" through 2¼" thick, use 5" x 5" hinges. Doors over 36 inches use 5" x 4½" unless otherwise specified in 3.02 Hardware Sets.
- F. Where required to clear the trim and/or to permit the doors to swing 180 degrees furnish hinges of sufficient throw.
- G. Provide heavy weight hinges on all doors over 36 inches in width and all doors with overhead stops or holders.
- H. At labeled door's stainless steel, bearing-type hinges shall be provided. For all doors equipped with closers and all other doors provide bearing-type hinges.
- I. Finishes
 - 1. At wood doors, hinges are to be plated to match adjacent hardware or as called for in Hardware Sets.
 - 2. At hollow metal doors, hinges are to be stainless steel at exterior in-swinging and out-swinging doors, unless otherwise specified in 3.02 Hardware Sets.
- J. Continuous hinges shall be as specified and manufactured by Ives, Select or ABH Products. All exterior doors shall be prepared and receive continuous hinges as specified.
- K. Pivots shall not be used on any Edinburg C. I. S. D. projects.

2.04 LOCK AND LOCK TRIM

- A. All the locksets, latch sets, and trim to be of one manufacturer as hereafter listed for continuity of design and consideration of warranty. Provide Schlage "ND" Vandlguard series with the Rhodes lever. All locks, passage and privacy sets shall be provided in a Dull Chrome (626) finish. All locksets shall be prepared for Schlage Conventional Classic keyways as required by Edinburg C. I. S. D. All locks are to be the Vandlguard series functions as specified.
- B. Provide metal wrought box strike boxes and curved lip strikes with proper lip length to protect trim of the frame, but not to project more than 1/8 inch beyond frame trim or the inactive leaf of a pair of doors.
- C. Mechanical Locks shall meet ANSI Operational Grade 1, Series 4000 as specified.
 - 1. Hand of lock is to be easily field-reversible or non-handed.
 - 2. All lever trim is to be through bolted through the door.
 - 3. Provide all locks specified with sound and/or light seal with a 3-3/4" backset.
 - 4. Provide storeroom function lock at all Classroom doors.
 - 5. Provide the ND91PD Rhodes Entry Lock function at all office doors within the Administration area.
 - 6. Provide Schlage "L" mortise privacy set with occupancy indicator and matching lever at all single restrooms.

2.05 CYLINDERS AND KEYING

- A. Provide locks and Exit devices requiring cylinders with Schlage Everest Conventional Classic keyway (No Substitution) key system that complies with performance requirements of ANSI A156.5. All keys shall be manufactured from nickel silver material. All locks are to be keyed to the existing Schlage Everest Classic Keyway master key system as directed by Edinburg C. I. S. D.
- B. Furnish all exterior and interior locks and Exit devices with temporary keyed construction master keyed cylinders for the duration of construction. Provide ten (10) construction keys total.
- C. Cylinders shall be keyed as directed by Edinburg C. I. S. D. and the Architect (After the supplier has had a minimum of two (2) meetings on site to discuss the permanent keying). Provide four-(4) cut or blank keys per cylinder and ten-(10) cut master keys per master used. The hardware supplier and the general contractor shall meet with Edinburg C. I. S. D. Representatives to determine exactly how all the locks are to be keyed and keys supplied (Cut or Blank). The hardware supplier in the presents of the Edinburg C. I. S. D. representative installs permanent cylinders and demon-straight that the keys function and lock or exit device work properly as installed. All permanent keys shall be turned over to Edinburg C. I. S. D. with a complete bitting list of all key changes used on the project. The bitting list shall include additional bittings equal to 200% expansion of the key system.
- D. Stamp all keys "Do not duplicate" and with key symbol as directed by Edinburg C. I. S. D.

2.06 EXIT DEVICES

- A. All exit devices and trim, including electrified items, to be of one manufacturer as hereafter listed and in the hardware sets for continuity of design and consideration of warranty; electrified devices and trim to be the same series and design as mechanical devices and trim. All devices shall conform to NFPA 80 and NFPA 101 requirements.

- B. Exit Devices to be "UL" listed for life safety. All exit devices for labeled doors shall have "UL" label for "Fire Exit Hardware". All devices mounted on labeled wood doors are to be through-bolted or per the manufacturer's listing requirements.
- C. All exit devices to be of a heavy duty, chassis mounted design, with one-piece removable covers, eliminating necessity of removing the device from the door for standard maintenance and keying requirements.
- D. All trims to be through bolted to the lock stile case. Lever design shall be the same as specified with the lock sets #06.
- E. Exit Devices to be the modern push rail design.
- F. All devices shall carry a three- (3) year warranty against manufacturing defects and workmanship.
- G. Exit Devices shall be Von Duprin "99" series as specified to match existing devices used and inventoried by Edinburg CISD. All Exit Devices shall be installed with sex-nut-bolts provided by the Manufacturer.

2.07 SURFACE MOUNTED DOOR CLOSERS

- A. All closers for this project shall be the products of a single manufacturer for continuity of design and consideration of warranty. All door closers shall be mounted as to achieve the maximum degree of opening (trim permitting).
- B. All closers to be heavy duty, surface-mounted, fully hydraulic, rack and pinion action with high strength cast iron cylinder to provide control throughout the entire door opening cycle.
- C. Size all closers in accordance with the manufacturer's recommendations at the factory.
- D. All closers to have adjustable spring power sizes 1 through 4 or 6 as specified and separate tamper resistant, brass, non-critical regulating screw valves for closing speed, latching speed and back-check control as a standard feature unless specified otherwise.
- E. All closer covers to be rectangular, full cover type of non-ferrous, non-corrosive material painted to match closer. Install all door closers with sex-nut-bolts as provided by the closer manufacturer.
- F. Closer to have heavy-duty arms. All closer arms shall be of sufficient length to accommodate the reveal depth and to insure proper installation
- G. Supply appropriate arm assembly for each closer so that closer body and arm are mounted on non-public side of door opening and on the interior side of exterior openings, except where required otherwise in the hardware sets.
 - 1. All parallel arm mounted closers to be factory indexed to insure proper installation.
 - 2. Furnish heavy-duty cold forged parallel arms for all parallel arm mounted closers.
- H. Provide closers with special application and heavy-duty arms as specified in the hardware sets or as otherwise called for to insure a proper operating, long lasting opening.

- I. Finish: Sprayed enamel finish shall match all other hardware.
- J. Door closer shall be LCN 1461 FC Interior and 4040XP Exterior as specified.

2.08 STOPS AND HOLDERS

- A. Stops are to be furnished for every door leaf. Every door is to have a floor, wall, or an overhead stop.
- B. Place doorstops in such a position that they permit maximum door swing, but do not present a hazard of obstruction. Furnish floor strikes for floor holders of proper height to engage holders of doors.
- C. Where overhead stops and holders are specified, or otherwise required for proper door operation, they are to be heavy duty and of extruded brass, bronze or stainless steel with no plastic parts as specified.
- D. Finish: Same as other hardware where available.
- E. Acceptable Products
 - 1. Floor and wall stop as listed in hardware sets. Equivalent products as manufactured by Ives, Rockwood and Trimco are acceptable.

2.09 PUSH PLATES, DOOR PULLS, AND KICKPLATES

- A. All push plates, door pull's, kick plates and other miscellaneous hardware as listed in hardware sets. Equivalent products as manufactured by Ives, Rockwood and Trimco are acceptable.
- B. Kick plates to be 10 inches high and Mop plates to be 6 inches high, both by 2 inches or 1 inch less than door width (LDW) as specified. They are to be of 16 gauge (.050 inches) thick stainless steel. For door with louvers or narrow bottom rails, kick plate height to be 1 inch less dimension shown from the bottom of the door to the bottom of the louver or glass.
- C. Where required armor plates, edge guards and other protective hardware shall be supplied in sizes as scheduled in the hardware sets.
- D. Finish: Same as other hardware where available.

2.10 FLUSH BOLTS AND COORDINATORS

- A. Provide Flush bolts with Dust Proof Strikes as indicated in the individual hardware sets by Ives, Rockwood and Trimco are acceptable. Finish shall match adjacent hardware.

2.11 THRESHOLDS AND GASKETING

- A. Provide materials and finishes as listed in hardware sets. Equivalent product by National Guard Products and Reese are acceptable. All thresholds must be in accordance with the requirements of the ADA and ANSI A117.1.
- B. Provide thresholds with 224 MSLA anchors. Supply all necessary anchoring devices for weather strip and sound seal. All thresholds, weather strip, door bottoms, etc. shall be provided with silicone inserts as specified. Provide all thresholds with solid fill "V3" or equal if shown with solid fill.

- C. Seals shall comply with requirements of UL10C. All inserts shall be silicone as specified.
- D. Seals shall comply with the requirements of the Wood Door Manufacturer's certification requirements.

2.12 FINISHES

- A. Finishes for all hardware are as required in this specification and the hardware sets.
- B. Special care is to be taken to make uniform the finish of all various manufactured items.

2.13 DOOR SILENCERS

- A. Provide door silencers at all openings without gasket. Provide two- (2) each at each pair of doors and three- (3) each for each single door (coordinate with the frame manufacturer).

2.14 PROPRIETARY PRODUCTS

- A. References to specific products are used to establish quality standards of utility and performance. Unless otherwise approved provide only the specified product.
- B. All other materials, not specifically described, but required for a complete and proper finish hardware installation, are to be selected by the Contractor, subject to the approval of the Architect and Edinburg CISD.
- C. Architect and Edinburg CISD reserve the right to approve all the substitutions proposed for this specification. All requests for substitution to be made prior to bid in accordance with Division 1, General Requirements, and are to be in writing, hand delivered to the Architect. Two (2) copies of the manufacturer's brochures and a physical sample of each item in the appropriate design and finish shall accompany requests for substitution.

PART 3 - EXECUTION

3.01 INSTALLATION OF FINISH HARDWARE

- A. Hardware is to be installed by experienced finish hardware installers after a pre-installation and pre-wiring meeting between the hardware supplier, lock, exit device and closer manufacturer's representative, electrical contractor, security contractor, hollow metal supplier, wood door supplier and hardware installer. Hardware installer shall have a minimum of ten (10) years of experience in the installation of finish hardware.
- B. Check hardware against the reviewed hardware schedule upon delivery. Store the hardware in a dry and secure location to protect against loss and damage.
- C. Install finish hardware in accordance with approved hardware schedule and manufacturers' printed instructions. Pre-fit hardware before finish is applied to door; remove and reinstall after finish is complete and dry. Install and adjust hardware so that parts operate smoothly, close tightly, and do not rattle.
- D. Mortise and cutting to be done neatly, and evidence of cutting to be concealed in the finished work. Protect all Finish hardware from scratching or other damage.

3.02 HARDWARE SETS:

UTRGV / EDINBURG CISD COLLEGIATE HIGH SCHOOL
GMS ARCHITECTS

77565 OPT0289629-V2

HARDWARE SET # 001

For use on Door #(s):
145-3

Each RU door to have:

| QTY | EA | DESCRIPTION | CATALOG NUMBER | FINISH | MFR |
|-----|----|---------------------------------|----------------|---|-----|
| 1 | EA | MORTISE CYLINDER | 20-001 |  626 | SCH |
| 1 | EA | BALANCE OF HARDWARE BY DOOR MFR | | | |

COORDINATE HARDWARE REQUIREMENT WITH OVERHEAD DOOR MFR.

HARDWARE SET # 002

For use on Door #(s):
156-1







Each SL door to have:

| QTY | EA | DESCRIPTION | CATALOG NUMBER | FINISH | MFR |
|-----|----|-----------------|---------------------------|--------|-----|
| 1 | EA | SLIDING DOOR HW | ALL HARDWARE BY DOOR MFR. | 626 | |

HARDWARE SET # 101

For use on Door #(s):
102-3 112-1 118-1 118B-1 118C-1





Each SGL door to have:

| QTY | EA | DESCRIPTION | CATALOG NUMBER | FINISH | MFR |
|-----|----|-------------------|---|---|-----|
| 3 | EA | HINGE | 5BB1 4.5 X 4.5 |  652 | IVE |
| 1 | EA | VANDL OFFICE LOCK | ND91P6D RHO |  626 | SCH |
| 1 | EA | SURFACE CLOSER | 1461 RW/PA FC X MTG PLT/BRKT/SPCR AS REQ |  689 | LCN |
| 1 | EA | KICK PLATE | 8400 10" X 2" LDW B-CS |  630 | IVE |
| 1 | EA | WALL STOP | WS406/407CCV |  630 | IVE |
| 3 | EA | SILENCER | SR64 |  GRY | IVE |

HARDWARE SET # 103

For use on Door #(s):
104-1 105-1 107-1 108-1 115-1 116-1
165-1 168-1 177-1

Each SGL door to have:

| QTY | EA | DESCRIPTION | CATALOG NUMBER | FINISH | MFR |
|-----|----|-------------------|----------------|---|-----|
| 3 | EA | HINGE | 5BB1 4.5 X 4.5 |  652 | IVE |
| 1 | EA | VANDL OFFICE LOCK | ND91P6D RHO |  626 | SCH |
| 1 | EA | WALL STOP | WS406/407CCV |  630 | IVE |
| 3 | EA | SILENCER | SR64 |  GRY | IVE |





UTRGV / EDINBURG CISD COLLEGIATE HIGH SCHOOL
GMS ARCHITECTS

HARDWARE SET # 103S

For use on Door #(s):

109-1 112A-1 175-1

Each SGL door to have:







| QTY | | DESCRIPTION | CATALOG NUMBER | | FINISH | MFR |
|-----|----|-------------------|----------------------------------|---|--------|-----|
| 3 | EA | HINGE | 5BB1 4.5 X 4.5 |  | 652 | IVE |
| 1 | EA | VANDL OFFICE LOCK | ND91P6D RHO |  | 626 | SCH |
| 1 | EA | OH STOP | 900S X SIZE & MOUNTING AS REQ |  | 630 | GLY |
| 3 | EA | SILENCER | SR64 |  | GRY | IVE |

HARDWARE SET # 107

For use on Door #(s):

118-2

Each SGL door to have:






| QTY | | DESCRIPTION | CATALOG NUMBER | | FINISH | MFR |
|-----|----|-------------------|---|---|--------|-----|
| 3 | EA | HINGE | 5BB1 4.5 X 4.5 |  | 652 | IVE |
| 1 | EA | VANDL OFFICE LOCK | ND91P6D RHO |  | 626 | SCH |
| 1 | EA | OH STOP | 900S X SIZE & MOUNTING AS REQ |  | 630 | GLY |
| 1 | EA | SURFACE CLOSER | 1461 RW/PA FC X MTG PLT/BRKT/SPCR AS REQ |  | 689 | LCN |
| 1 | EA | KICK PLATE | 8400 10" X 2" LDW B-CS |  | 630 | IVE |
| 3 | EA | SILENCER | SR64 |  | GRY | IVE |

HARDWARE SET # 201C

For use on Door #(s):

125-1 173-1 204-1

Each SGL door to have:

| QTY | | DESCRIPTION | CATALOG NUMBER | | FINISH | MFR |
|-----|----|-------------------------|---|---|--------|-----|
| 3 | EA | HINGE | 5BB1 4.5 X 4.5 |  | 652 | IVE |
| 1 | EA | VANDL STOREROOM LOCK | ND96P6D RHO |  | 626 | SCH |
| 1 | EA | SURFACE CLOSER | 1461 SCUSH FC X MTG PLT/BRKT/SPCR AS REQ |  | 689 | LCN |
| 1 | EA | KICK PLATE | 8400 10" X 2" LDW B-CS |  | 630 | IVE |
| 1 | EA | GASKETING | 488S PSA H & J (USE SILENCERS AT NON-RATED DOORS) |  | BK | ZER |








UTRGV / EDINBURG CISD COLLEGIATE HIGH SCHOOL
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HARDWARE SET # 202S

For use on Door #(s):

171-1 223-1

Each PR door to have:





| QTY | | DESCRIPTION | CATALOG NUMBER | | FINISH | MFR |
|-----|----|----------------------|----------------------------------|---|--------|-----|
| 6 | EA | HINGE | 5BB1HW 4.5 X 4.5 |  | 652 | IVE |
| 2 | EA | MANUAL FLUSH BOLT | FB458 (1 EA TOP/BOTTOM) |  | 626 | IVE |
| 1 | EA | DUST PROOF STRIKE | DP2 |  | 626 | IVE |
| 1 | EA | VANDL STOREROOM LOCK | ND96P6D RHO |  | 626 | SCH |
| 2 | EA | OH STOP | 900S X SIZE & MOUNTING AS REQ |  | 630 | GLY |
| 1 | EA | ASTRAGAL | 43SP |  | SP | ZER |
| 2 | EA | SILENCER | SR64 |  | GRY | IVE |

HARDWARE SET # 203

For use on Door #(s):

106-1 111-1 134-1 135-1 136-1 137-1
138-1 139-1 140-1 141-1 143-1 147-1
164-1 207-1 208-1 212-1 213-1 214-1
215-1 216-1 217-1 218-1 219-1 220-1
222-1 224-1

Each SGL door to have:





| QTY | | DESCRIPTION | CATALOG NUMBER | | FINISH | MFR |
|-----|----|----------------------|----------------|---|--------|-----|
| 3 | EA | HINGE | 5BB1 4.5 X 4.5 |  | 652 | IVE |
| 1 | EA | VANDL STOREROOM LOCK | ND96P6D RHO |  | 626 | SCH |
| 1 | EA | WALL STOP | WS406/407CCV |  | 630 | IVE |
| 3 | EA | SILENCER | SR64 |  | GRY | IVE |

HARDWARE SET # 203S

For use on Door #(s):

113-1 119-1 126-2 202-1 205-2 210-1
226-1

Each SGL door to have:

| QTY | | DESCRIPTION | CATALOG NUMBER | | FINISH | MFR |
|-----|----|----------------------|----------------------------------|---|--------|-----|
| 3 | EA | HINGE | 5BB1 4.5 X 4.5 |  | 652 | IVE |
| 1 | EA | VANDL STOREROOM LOCK | ND96P6D RHO |  | 626 | SCH |
| 1 | EA | OH STOP | 900S X SIZE & MOUNTING AS REQ |  | 630 | GLY |
| 3 | EA | SILENCER | SR64 |  | GRY | IVE |





UTRGV / EDINBURG CISD COLLEGIATE HIGH SCHOOL
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HARDWARE SET # 203SW

For use on Door #(s):

123-1 124-1 151-1

Each SGL door to have:








| QTY | | DESCRIPTION | CATALOG NUMBER | | FINISH | MFR |
|-----|----|----------------------|----------------------------------|---|--------|-----|
| 3 | EA | HINGE | 5BB1HW 5 X 4.5 NRP |  | 652 | IVE |
| 1 | EA | VANDL STOREROOM LOCK | ND96P6D RHO |  | 626 | SCH |
| 1 | EA | OH STOP | 900S X SIZE & MOUNTING AS REQ |  | 630 | GLY |
| 3 | EA | SILENCER | SR64 |  | GRY | IVE |

HARDWARE SET # 341

For use on Door #(s):

131-1 162-1 211-1

Each SGL door to have:






| QTY | | DESCRIPTION | CATALOG NUMBER | | FINISH | MFR |
|-----|----|---------------------|---|---|--------|-----|
| 3 | EA | HINGE | 5BB1 4.5 X 4.5 |  | 652 | IVE |
| 1 | EA | PRIVACY W/INDICATOR | L9040 06A L583-363 L283-722 |  | 626 | SCH |
| 1 | EA | SURFACE CLOSER | 1461 RW/PA FC X MTG PLT/BRKT/SPCR AS REQ |  | 689 | LCN |
| 1 | EA | KICK PLATE | 8400 10" X 2" LDW B-CS |  | 630 | IVE |
| 1 | EA | WALL STOP | WS406/407CCV |  | 630 | IVE |
| 1 | EA | GASKETING | 488S PSA H & J (USE SILENCERS AT NON-RATED DOORS) |  | BK | ZER |
| 1 | EA | COAT AND HAT HOOK | 582 |  | B26D | IVE |

HARDWARE SET # 343

For use on Door #(s):

114-1

Each SGL door to have:

| QTY | | DESCRIPTION | CATALOG NUMBER | | FINISH | MFR |
|-----|----|---------------------|-----------------------------|---|--------|-----|
| 3 | EA | HINGE | 5BB1 4.5 X 4.5 |  | 652 | IVE |
| 1 | EA | PRIVACY W/INDICATOR | L9040 06A L583-363 L283-722 |  | 626 | SCH |
| 1 | EA | WALL STOP | WS406/407CCV |  | 630 | IVE |
| 1 | EA | COAT AND HAT HOOK | 582 |  | B26D | IVE |
| 3 | EA | SILENCER | SR64 |  | GRY | IVE |








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HARDWARE SET # 347

For use on Door #(s):

120-1 121-1

Each SGL door to have:





| QTY | | DESCRIPTION | CATALOG NUMBER | | FINISH | MFR |
|-----|----|----------------------|---|---|--------|-----|
| 3 | EA | HINGE | 5BB1 4.5 X 4.5 |  | 652 | IVE |
| 1 | EA | PRIVACY W//INDICATOR | L9040 06A L583-363 L283-722 |  | 626 | SCH |
| 1 | EA | OH STOP | 900S X SIZE & MOUNTING AS REQ |  | 630 | GLY |
| 1 | EA | SURFACE CLOSER | 1461 RW/PA FC X MTG PLT/BRKT/SPCR AS REQ |  | 689 | LCN |
| 1 | EA | KICK PLATE | 8400 10" X 2" LDW B-CS |  | 630 | IVE |
| 1 | EA | COAT AND HAT HOOK | 582 |  | B26D | IVE |
| 3 | EA | SILENCER | SR64 |  | GRY | IVE |

HARDWARE SET # 403

For use on Door #(s):

169-1 174-1

Each SGL door to have:





| QTY | | DESCRIPTION | CATALOG NUMBER | | FINISH | MFR |
|-----|----|-------------|----------------|---|--------|-----|
| 3 | EA | HINGE | 5BB1 4.5 X 4.5 |  | 652 | IVE |
| 1 | EA | PASSAGE SET | ND10S RHO |  | 626 | SCH |
| 1 | EA | WALL STOP | WS406/407CCV |  | 630 | IVE |
| 3 | EA | SILENCER | SR64 |  | GRY | IVE |

HARDWARE SET # 403S

For use on Door #(s):

166-1

Each SGL door to have:

| QTY | | DESCRIPTION | CATALOG NUMBER | | FINISH | MFR |
|-----|----|-------------|----------------------------------|---|--------|-----|
| 3 | EA | HINGE | 5BB1 4.5 X 4.5 |  | 652 | IVE |
| 1 | EA | PASSAGE SET | ND10S RHO |  | 626 | SCH |
| 1 | EA | OH STOP | 900S X SIZE & MOUNTING AS REQ |  | 630 | GLY |
| 3 | EA | SILENCER | SR64 |  | GRY | IVE |







UTRGV / EDINBURG CISD COLLEGIATE HIGH SCHOOL
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HARDWARE SET # 501

For use on Door #(s):

158-1 161-1

Each SGL door to have:







| QTY | | DESCRIPTION | CATALOG NUMBER | | FINISH | MFR |
|-----|----|----------------------|---|---|--------|-----|
| 3 | EA | HINGE | 5BB1 4.5 X 4.5 |  | 652 | IVE |
| 1 | EA | VANDL CLASSROOM LOCK | ND94P6D RHO |  | 626 | SCH |
| 1 | EA | SURFACE CLOSER | 1461 RW/PA FC X MTG PLT/BRKT/SPCR AS REQ |  | 689 | LCN |
| 1 | EA | KICK PLATE | 8400 10" X 2" LDW B-CS |  | 630 | IVE |
| 1 | EA | WALL STOP | WS406/407CCV |  | 630 | IVE |
| 1 | EA | GASKETING | 488S PSA H & J (USE SILENCERS AT NON-RATED DOORS) |  | BK | ZER |

HARDWARE SET # 501E

For use on Door #(s):

157-2

Each SGL door to have:







| QTY | | DESCRIPTION | CATALOG NUMBER | | FINISH | MFR |
|-----|----|----------------------|---|---|--------|-----|
| 3 | EA | HINGE | 5BB1 4.5 X 4.5 |  | 652 | IVE |
| 1 | EA | VANDL CLASSROOM LOCK | ND94P6D RHO |  | 626 | SCH |
| 1 | EA | SURFACE CLOSER | 1461 EDA FC X MTG PLT/BRKT/SPCR AS REQ |  | 689 | LCN |
| 1 | EA | KICK PLATE | 8400 10" X 2" LDW B-CS |  | 630 | IVE |
| 1 | EA | WALL STOP | WS406/407CCV |  | 630 | IVE |
| 1 | EA | GASKETING | 488S PSA H & J (USE SILENCERS AT NON-RATED DOORS) |  | BK | ZER |

HARDWARE SET # 711C

For use on Door #(s):

201-1 201-2

Each SGL door to have:

| QTY | | DESCRIPTION | CATALOG NUMBER | | FINISH | MFR |
|-----|----|----------------|---|---|--------|-----|
| 3 | EA | HINGE | 5BB1HW 4.5 X 4.5 NRP |  | 652 | IVE |
| 1 | EA | PANIC HARDWARE | 99-NL-SNB |  | 626 | VON |
| 1 | EA | RIM CYLINDER | 20-022 |  | 626 | SCH |
| 1 | EA | SURFACE CLOSER | 1461 SCUSH FC X MTG PLT/BRKT/SPCR AS REQ |  | 689 | LCN |
| 1 | EA | KICK PLATE | 8400 10" X 2" LDW B-CS |  | 630 | IVE |
| 3 | EA | SILENCER | SR64 |  | GRY | IVE |








UTRGV / EDINBURG CISD COLLEGIATE HIGH SCHOOL
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HARDWARE SET # 711H

For use on Door #(s):

| | | | | | |
|-------|-------|-------|-------|-------|-------|
| 122-1 | 122-2 | 149-1 | 150-1 | 153-2 | 225-1 |
| 228-2 | 229-1 | 229-2 | | | |

Each SGL door to have:











| QTY | | DESCRIPTION | CATALOG NUMBER | | FINISH | MFR |
|-----|----|-----------------|----------------------------|---|--------|-----|
| 3 | EA | HINGE | 5BB1HW 4.5 X 4.5 NRP |  | 652 | IVE |
| 1 | EA | PANIC HARDWARE | 99-NL-SNB |  | 626 | VON |
| 1 | EA | RIM CYLINDER | 20-022 |  | 626 | SCH |
| 1 | EA | SURFACE CLOSER | 1461 HEDA FC |  | 689 | LCN |
| | | | X MTG PLT/BRKT/SPCR AS REQ | | | |
| 1 | EA | KICK PLATE | 8400 10" X 2" LDW B-CS |  | 630 | IVE |
| 1 | EA | FLOOR/WALL STOP | FS436/WS406CCV AS REQ |  | 626 | IVE |
| 3 | EA | SILENCER | SR64 |  | GRY | IVE |

HARDWARE SET # 714AM

For use on Door #(s):

154-2

Each PR door to have:

| QTY | | DESCRIPTION | CATALOG NUMBER | | FINISH | MFR |
|-----|-----|------------------------------|--------------------------------------|---|--------|-----|
| 2 | EA | CONT. HINGE | 112XY |  | 628 | IVE |
| 1 | EA | FIRE RATED REMOVABLE MULLION | KR9954 STAB MT54 |  | 689 | VON |
| 1 | EA | PANIC HARDWARE | 99-DT-499F-SNB |  | 626 | VON |
| 1 | EA | PANIC HARDWARE | 99-NL-499F-SNB |  | 626 | VON |
| 1 | EA | MORTISE CYLINDER | 20-001 |  | 626 | SCH |
| 1 | EA | RIM CYLINDER | 20-022 |  | 626 | SCH |
| 2 | EA | SURFACE CLOSER | 4040XP SCUSH TBSRT |  | 689 | LCN |
| | | | X MTG PLT/BRKT/SPCR AS REQ | | | |
| 1 | EA | MULLION SEAL | 8780NBK PSA |  | BK | ZER |
| 1 | SET | SEAL | PERIMETER SEAL BY FRAME MANUFACTURER | | | |
| 2 | EA | DOOR SWEEP | 39A |  | A | ZER |
| 1 | EA | THRESHOLD | 65A |  | A | ZER |

DOOR MUST HAVE MIN. 5" STILE TO ACCOMMODATE SPECIFIED HARDWARE.









UTRGV / EDINBURG CISD COLLEGIATE HIGH SCHOOL
GMS ARCHITECTS

HARDWARE SET # 801L

For use on Door #(s):

126-1 127-1 205-1 206-1

Each SGL door to have:








| QTY | | DESCRIPTION | CATALOG NUMBER | | FINISH | MFR |
|-----|----|--------------------|---|---|--------|-----|
| 3 | EA | HINGE | 5BB1HW 4.5 X 4.5 |  | 652 | IVE |
| 1 | EA | CLASSROOM DEADBOLT | B663P6 12-631 |  | 626 | SCH |
| 1 | EA | PUSH PLATE | 8200 8" X 16" |  | 630 | IVE |
| 1 | EA | PULL PLATE | 8305 8" 3.5" X 15" |  | 630 | IVE |
| 1 | EA | SURFACE CLOSER | 1461 RW/PA FC X MTG PLT/BRKT/SPCR AS REQ |  | 689 | LCN |
| 1 | EA | KICK PLATE | 8400 10" X 2" LDW B-CS |  | 630 | IVE |
| 1 | EA | WALL STOP | WS406/407CCV |  | 630 | IVE |
| 3 | EA | SILENCER | SR64 |  | GRY | IVE |

HARDWARE SET # C201

For use on Door #(s):

176-1

Each SGL door to have:

| QTY | | DESCRIPTION | CATALOG NUMBER | | FINISH | MFR |
|-----|----|------------------------------|---|---|--------|-----|
| 3 | EA | HINGE | 5BB1 4.5 X 4.5 |  | 652 | IVE |
| 1 | EA | POWER TRANSFER | EPT10 CON |  | 689 | VON |
| 1 | EA | VANDL EU STOREROOM | ND96P6DEU RHO RX CON 12V/24V DC |  | 626 | SCH |
| 1 | EA | SURFACE CLOSER | 1461 RW/PA FC X MTG PLT/BRKT/SPCR AS REQ |  | 689 | LCN |
| 1 | EA | KICK PLATE | 8400 10" X 2" LDW B-CS |  | 630 | IVE |
| 1 | EA | WALL STOP | WS406/407CCV |  | 630 | IVE |
| 1 | EA | GASKETING | 488S PSA H & J (USE SILENCERS AT NON-RATED DOORS) |  | BK | ZER |
| 1 | EA | WIRE HARNESS (IN DOOR) | CON-XXP - LENGTH AS REQ | | | SCH |
| 1 | EA | HARNESS (TO POWER SUPPLY) | CON-6W - CONNECTION LEADS | | | SCH |
| 1 | EA | CREDENTIAL READER | BY SECURITY CONTRACTOR | | | |
| 1 | EA | DOOR CONTACT | BY SECURITY CONTRACTOR | | | |
| 1 | EA | POWER SUPPLY | BY SECURITY CONTRACTOR | | | |

DOOR NORMALLY CLOSED AND LOCKED. ENTRY VIA VALID CREDENTIAL OR KEY OVERRIDE.
FREE EGRESS AT ALL TIMES. DOOR TO REMAIN LOCKED UPON POWER FAILURE OR FIRE
ALARM ACTIVATION. FAIL-SECURE.







UTRGV / EDINBURG CISD COLLEGIATE HIGH SCHOOL
GMS ARCHITECTS

HARDWARE SET # C201C

For use on Door #(s):

128-1 128A-1 203-1 221-1

Each SGL door to have:

| QTY | | DESCRIPTION | CATALOG NUMBER | FINISH | MFR |
|-----|----|------------------------------|---|---|-----|
| 3 | EA | HINGE | 5BB1 4.5 X 4.5 NRP - 3 EA PER LEAF AT DRS <90" |  652 | IVE |
| 1 | EA | POWER TRANSFER | EPT10 CON |  689 | VON |
| 1 | EA | VANDL EU STOREROOM | ND96P6DEU RHO RX CON 12V/24V DC |  626 | SCH |
| 1 | EA | SURFACE CLOSER | 1461 SCUSH FC X MTG PLT/BRKT/SPCR AS REQ |  689 | LCN |
| 1 | EA | KICK PLATE | 8400 10" X 2" LDW B-CS |  630 | IVE |
| 1 | EA | GASKETING | 488S PSA H & J (USE SILENCERS AT NON-RATED DOORS) |  BK | ZER |
| 1 | EA | WIRE HARNESS (IN DOOR) | CON-XXP - LENGTH AS REQ | | SCH |
| 1 | EA | HARNESS (TO POWER SUPPLY) | CON-6W - CONNECTION LEADS | | SCH |
| 1 | EA | CREDENTIAL READER | BY SECURITY CONTRACTOR | | |
| 1 | EA | DOOR CONTACT | BY SECURITY CONTRACTOR | | |
| 1 | EA | POWER SUPPLY | BY SECURITY CONTRACTOR | | |

DOOR NORMALLY CLOSED AND LOCKED. ENTRY VIA VALID CREDENTIAL OR KEY OVERRIDE.
FREE EGRESS AT ALL TIMES. DOOR TO REMAIN LOCKED UPON POWER FAILURE OR FIRE
ALARM ACTIVATION. FAIL-SECURE.






UTRGV / EDINBURG CISD COLLEGIATE HIGH SCHOOL
GMS ARCHITECTS

HARDWARE SET # C207

For use on Door #(s):

152-1 152-2 227-1 227-2

Each SGL door to have:

| QTY | | DESCRIPTION | CATALOG NUMBER | FINISH | MFR |
|-----|----|------------------------------|---|---|-----|
| 3 | EA | HINGE | 5BB1 4.5 X 4.5 |  652 | IVE |
| 1 | EA | POWER TRANSFER | EPT10 CON |  689 | VON |
| 1 | EA | VANDL EU STOREROOM | ND96P6DEU RHO RX CON 12V/24V DC |  626 | SCH |
| 1 | EA | OH STOP | 900S X SIZE & MOUNTING AS REQ |  630 | GLY |
| 1 | EA | SURFACE CLOSER | 1461 RW/PA FC X MTG PLT/BRKT/SPCR AS REQ |  689 | LCN |
| 1 | EA | KICK PLATE | 8400 10" X 2" LDW B-CS |  630 | IVE |
| 1 | EA | GASKETING | 488S PSA H & J (USE SILENCERS AT NON-RATED DOORS) |  BK | ZER |
| 1 | EA | WIRE HARNESS (IN DOOR) | CON-XXP - LENGTH AS REQ | | SCH |
| 1 | EA | HARNESS (TO POWER SUPPLY) | CON-6W - CONNECTION LEADS | | SCH |
| 1 | EA | CREDENTIAL READER | BY SECURITY CONTRACTOR | | |
| 1 | EA | DOOR CONTACT | BY SECURITY CONTRACTOR | | |
| 1 | EA | POWER SUPPLY | BY SECURITY CONTRACTOR | | |









DOOR NORMALLY CLOSED AND LOCKED. ENTRY VIA VALID CREDENTIAL OR KEY OVERRIDE.
FREE EGRESS AT ALL TIMES. DOOR TO REMAIN LOCKED UPON POWER FAILURE OR FIRE
ALARM ACTIVATION. FAIL-SECURE.

UTRGV / EDINBURG CISD COLLEGIATE HIGH SCHOOL
GMS ARCHITECTS

HARDWARE SET # C281

For use on Door #(s):
110-1

Each SGL door to have:

| QTY | | DESCRIPTION | CATALOG NUMBER | FINISH | MFR |
|-----|----|------------------------------|---|--|-----|
| 3 | EA | HINGE | 5BB1 4.5 X 4.5 |  652 | IVE |
| 1 | EA | POWER TRANSFER | EPT10 CON |  689 | VON |
| 1 | EA | EU MORTISE LOCK | L9492P6EU 06A L583-363 RX DM CON 12/24 VDC |  626 | SCH |
| 1 | EA | OCCUPANCY INDICATOR | L283-414 | 626 | SCH |
| 1 | EA | SURFACE CLOSER | 1461 RW/PA FC X MTG PLT/BRKT/SPCR AS REQ |  689 | LCN |
| 1 | EA | KICK PLATE | 8400 10" X 2" LDW B-CS |  630 | IVE |
| 1 | EA | FLOOR/WALL STOP | FS436/WS406CCV AS REQ |  626 | IVE |
| 1 | EA | GASKETING | 488S PSA H & J (USE SILENCERS AT NON-RATED DOORS) |  BK | ZER |
| 1 | EA | COAT AND HAT HOOK | 582 |  B26D | IVE |
| 1 | EA | WIRE HARNESS (IN DOOR) | CON-XXP - LENGTH AS REQ | | SCH |
| 1 | EA | HARNESS (TO POWER SUPPLY) | CON-6W - CONNECTION LEADS | | SCH |
| 1 | EA | CREDENTIAL READER | BY SECURITY CONTRACTOR | | |
| 1 | EA | DOOR CONTACT | BY SECURITY CONTRACTOR | | |
| 1 | EA | POWER SUPPLY | BY SECURITY CONTRACTOR | | |










DOOR NORMALLY CLOSED AND LOCKED. ENTRY VIA VALID CREDENTIAL OR KEY OVERRIDE. WHEN IN-USE, DM TO DE-ACTIVATE CARD ACCESS FOR PRIVACY. FREE EGRESS AT ALL TIMES. DOOR TO REMAIN LOCKED UPON POWER FAILURE OR FIRE ALARM ACTIVATION. FAIL-SECURE.

UTRGV / EDINBURG CISD COLLEGIATE HIGH SCHOOL
GMS ARCHITECTS

HARDWARE SET # C710CAM

For use on Door #(s):
101-2

Each PR door to have:

| QTY | | DESCRIPTION | CATALOG NUMBER | | FINISH | MFR |
|-----|-----|------------------------------|--------------------------------------|---|--------|-----|
| 2 | EA | CONT. HINGE | 112XY EPT |  | 628 | IVE |
| 2 | EA | POWER TRANSFER | EPT10 CON |  | 689 | VON |
| 1 | EA | FIRE RATED REMOVABLE MULLION | KR9954 STAB MT54 |  | 689 | VON |
| 1 | EA | ELEC PANIC HARDWARE | RX-QEL-99-DT-499F-CON-SNB 24 VDC |  | 626 | VON |
| 1 | EA | ELEC PANIC HARDWARE | RX-QEL-99-NL-499F-CON-SNB 24 VDC |  | 626 | VON |
| 1 | EA | MORTISE CYLINDER | 20-001 |  | 626 | SCH |
| 1 | EA | RIM CYLINDER | 20-022 |  | 626 | SCH |
| 2 | EA | SURFACE CLOSER | 1461 SCUSH FC |  | 689 | LCN |
| | | | X MTG PLT/BRKT/SPCR AS REQ | | | |
| 1 | EA | MULLION SEAL | 8780NBK PSA |  | BK | ZER |
| 1 | SET | SEAL | PERIMETER SEAL BY FRAME MANUFACTURER | | | |
| 2 | EA | WIRE HARNESS (IN DOOR) | CON-XXP - LENGTH AS REQ | | | SCH |
| 2 | EA | HARNESS (TO POWER SUPPLY) | CON-6W - CONNECTION LEADS | | | SCH |
| 1 | EA | CREDENTIAL READER | BY SECURITY CONTRACTOR | | | |
| 2 | EA | DOOR CONTACT | BY SECURITY CONTRACTOR | | | |
| 1 | EA | POWER SUPPLY | BY SECURITY CONTRACTOR | | | |

DOOR MUST HAVE MIN. 5" STILE TO ACCOMMODATE SPECIFIED HARDWARE.
[OPERATIONAL DESCRIPTION] - DOOR NORMALLY CLOSED AND LOCKED. ENTRY VIA VALID CREDENTIAL OR KEY OVERRIDE. FREE EGRESS AT ALL TIMES. DOOR TO REMAIN LOCKED UPON POWER FAILURE OR FIRE ALARM ACTIVATION. FAIL-SECURE.













UTRGV / EDINBURG CISD COLLEGIATE HIGH SCHOOL
GMS ARCHITECTS

HARDWARE SET # C710WMR

For use on Door #(s):

209-1 230-1

Each PR door to have:

| QTY | | DESCRIPTION | CATALOG NUMBER | | FINISH | MFR |
|-----|-----|------------------------------|--|--|--------|-----|
| 6 | EA | HINGE | 5BB1HW 5 X 4.5 NRP |  | 652 | IVE |
| 2 | EA | POWER TRANSFER | EPT10 CON |  | 689 | VON |
| 1 | EA | FIRE RATED REMOVABLE MULLION | KR9954 STAB MT54 |  | 689 | VON |
| 1 | EA | ELEC FIRE EXIT HARDWARE | RX-99-EO-F-499F-CON-SNB - LENGTH AS REQ |  | 626 | VON |
| 1 | EA | ELEC FIRE EXIT HARDWARE | RX-QEL-99-NL-F-499F-CON-SNB 24 VDC - LENGTH AS REQ |  | 626 | VON |
| 1 | EA | MORTISE CYLINDER | 20-001 |  | 626 | SCH |
| 1 | EA | RIM CYLINDER | 20-022 |  | 626 | SCH |
| 2 | EA | SURFACE CLOSER | 1461 SCUSH FC X MTG PLT/BRKT/SPCR AS REQ |  | 689 | LCN |
| 2 | EA | KICK PLATE | 8400 10" X 2" LDW B-CS |  | 630 | IVE |
| 1 | EA | GASKETING SET | 188S PSA H & J |  | BK | ZER |
| 1 | SET | MEETING STILE | 328AA (2 PCS - 1 SET) |  | AA | ZER |
| 1 | EA | MULLION SEAL | 8780NBK PSA |  | BK | ZER |
| 2 | EA | WIRE HARNESS (IN DOOR) | CON-XXP - LENGTH AS REQ | | | SCH |
| 2 | EA | HARNESS (TO POWER SUPPLY) | CON-6W - CONNECTION LEADS | | | SCH |
| 1 | EA | CREDENTIAL READER | BY SECURITY CONTRACTOR | | | |
| 2 | EA | DOOR CONTACT | BY SECURITY CONTRACTOR | | | |
| 1 | EA | POWER SUPPLY | BY SECURITY CONTRACTOR | | | |

DOOR NORMALLY CLOSED AND LOCKED. ENTRY VIA VALID CREDENTIAL OR KEY OVERRIDE. FREE EGRESS AT ALL TIMES. DOOR TO REMAIN LOCKED UPON POWER FAILURE OR FIRE ALARM ACTIVATION. FAIL-SECURE.









UTRGV / EDINBURG CISD COLLEGIATE HIGH SCHOOL
GMS ARCHITECTS

HARDWARE SET # C711

For use on Door #(s):

| | | | | | |
|-------|-------|-------|-------|-------|-------|
| 130-1 | 144-1 | 146-1 | 149-2 | 150-2 | 153-1 |
| 225-2 | 228-1 | | | | |

Each SGL door to have:

| QTY | | DESCRIPTION | CATALOG NUMBER | | FINISH | MFR |
|-----|----|---------------------------|-----------------------------|---|--------|-----|
| 3 | EA | HINGE | 5BB1HW 4.5 X 4.5 NRP |  | 652 | IVE |
| 1 | EA | POWER TRANSFER | EPT10 CON |  | 689 | VON |
| 1 | EA | ELEC PANIC HARDWARE | RX-QEL-99-NL-CON-SNB 24 VDC |  | 626 | VON |
| 1 | EA | RIM CYLINDER | 20-022 |  | 626 | SCH |
| 1 | EA | SURFACE CLOSER | 1461 EDA FC |  | 689 | LCN |
| | | | X MTG PLT/BRKT/SPCR AS REQ | | | |
| 1 | EA | KICK PLATE | 8400 10" X 2" LDW B-CS |  | 630 | IVE |
| 1 | EA | FLOOR/WALL STOP | FS436/WS406CCV AS REQ |  | 626 | IVE |
| 3 | EA | SILENCER | SR64 |  | GRY | IVE |
| 1 | EA | WIRE HARNESS (IN DOOR) | CON-XXP - LENGTH AS REQ | | | SCH |
| 1 | EA | HARNESS (TO POWER SUPPLY) | CON-6W - CONNECTION LEADS | | | SCH |
| 1 | EA | CREDENTIAL READER | BY SECURITY CONTRACTOR | | | |
| 1 | EA | DOOR CONTACT | BY SECURITY CONTRACTOR | | | |
| 1 | EA | POWER SUPPLY | BY SECURITY CONTRACTOR | | | |









DOOR NORMALLY CLOSED AND LOCKED. ENTRY VIA VALID CREDENTIAL OR KEY OVERRIDE. FREE EGRESS AT ALL TIMES. DOOR TO REMAIN LOCKED UPON POWER FAILURE OR FIRE ALARM ACTIVATION. FAIL-SECURE.

UTRGV / EDINBURG CISD COLLEGIATE HIGH SCHOOL
GMS ARCHITECTS

HARDWARE SET # C711W

For use on Door #(s):
145-1

Each SGL door to have:

| QTY | | DESCRIPTION | CATALOG NUMBER | | FINISH | MFR |
|-----|----|------------------------------|--|---|--------|-----|
| 3 | EA | HINGE | 5BB1HW 5 X 4.5 NRP |  | 652 | IVE |
| 1 | EA | POWER TRANSFER | EPT10 CON |  | 689 | VON |
| 1 | EA | ELEC PANIC HARDWARE | RX-QEL-99-NL-CON-SNB 24 VDC - LENGTH AS REQ |  | 626 | VON |
| 1 | EA | RIM CYLINDER | 20-022 |  | 626 | SCH |
| 1 | EA | SURFACE CLOSER | 1461 EDA FC X MTG PLT/BRKT/SPCR AS REQ |  | 689 | LCN |
| 1 | EA | KICK PLATE | 8400 10" X 2" LDW B-CS |  | 630 | IVE |
| 1 | EA | FLOOR/WALL STOP | FS436/WS406CCV AS REQ |  | 626 | IVE |
| 3 | EA | SILENCER | SR64 |  | GRY | IVE |
| 1 | EA | WIRE HARNESS (IN DOOR) | CON-XXP - LENGTH AS REQ | | | SCH |
| 1 | EA | HARNESS (TO POWER SUPPLY) | CON-6W - CONNECTION LEADS | | | SCH |
| 1 | EA | CREDENTIAL READER | BY SECURITY CONTRACTOR | | | |
| 1 | EA | DOOR CONTACT | BY SECURITY CONTRACTOR | | | |
| 1 | EA | POWER SUPPLY | BY SECURITY CONTRACTOR | | | |

DOOR NORMALLY CLOSED AND LOCKED. ENTRY VIA VALID CREDENTIAL OR KEY OVERRIDE.
FREE EGRESS AT ALL TIMES. DOOR TO REMAIN LOCKED UPON POWER FAILURE OR FIRE
ALARM ACTIVATION. FAIL-SECURE.

UTRGV / EDINBURG CISD COLLEGIATE HIGH SCHOOL
GMS ARCHITECTS

HARDWARE SET # C714AM

For use on Door #(s):

101-1 133A-1 134A-1 142-1 154-1

Each PR door to have:

| QTY | | DESCRIPTION | CATALOG NUMBER | | FINISH | MFR |
|-----|-----|------------------------------|---|--|--------|-----|
| 2 | EA | CONT. HINGE | 112XY EPT | | 628 | IVE |
| 2 | EA | POWER TRANSFER | EPT10 CON | | 689 | VON |
| 1 | EA | FIRE RATED REMOVABLE MULLION | KR9954 STAB MT54 | | 689 | VON |
| 1 | EA | ELEC PANIC HARDWARE | RX-QEL-99-DT-499F-CON-SNB 24 VDC | | 626 | VON |
| 1 | EA | ELEC PANIC HARDWARE | RX-QEL-99-NL-499F-CON-SNB 24 VDC | | 626 | VON |
| 1 | EA | MORTISE CYLINDER | 20-001 | | 626 | SCH |
| 1 | EA | RIM CYLINDER | 20-022 | | 626 | SCH |
| 2 | EA | SURFACE CLOSER | 4040XP SCUSH TBSRT X MTG PLT/BRKT/SPCR AS REQ | | 689 | LCN |
| 2 | EA | FLOOR STOP | FS18L | | BLK | IVE |
| 1 | EA | MULLION SEAL | 8780NBK PSA | | BK | ZER |
| 1 | SET | SEAL | PERIMETER SEAL BY FRAME MANUFACTURER | | | |
| 2 | EA | DOOR SWEEP | 39A | | A | ZER |
| 1 | EA | THRESHOLD | 65A | | A | ZER |
| 2 | EA | WIRE HARNESS (IN DOOR) | CON-XXP - LENGTH AS REQ | | | SCH |
| 2 | EA | HARNESS (TO POWER SUPPLY) | CON-6W - CONNECTION LEADS | | | SCH |
| 1 | EA | CREDENTIAL READER | BY SECURITY CONTRACTOR | | | |
| 2 | EA | DOOR CONTACT | BY SECURITY CONTRACTOR | | | |
| 1 | EA | POWER SUPPLY | BY SECURITY CONTRACTOR | | | |
















DOOR MUST HAVE MIN. 5" STILE TO ACCOMMODATE SPECIFIED HARDWARE.
[OPERATIONAL DESCRIPTION] - DOOR NORMALLY CLOSED AND LOCKED. ENTRY VIA VALID CREDENTIAL OR KEY OVERRIDE. FREE EGRESS AT ALL TIMES. DOOR TO REMAIN LOCKED UPON POWER FAILURE OR FIRE ALARM ACTIVATION. FAIL-SECURE.

UTRGV / EDINBURG CISD COLLEGIATE HIGH SCHOOL
GMS ARCHITECTS

HARDWARE SET # C714MR

For use on Door #(s):
163-1

Each PR door to have:

| QTY | | DESCRIPTION | CATALOG NUMBER | | FINISH | MFR |
|-----|-----|------------------------------|--|---|--------|-----|
| 6 | EA | HINGE | 5BB1HW 4.5 X 4.5 NRP |  | 630 | IVE |
| 2 | EA | POWER TRANSFER | EPT10 CON |  | 689 | VON |
| 1 | EA | FIRE RATED REMOVABLE MULLION | KR9954 STAB MT54 |  | 689 | VON |
| 1 | EA | ELEC FIRE EXIT HARDWARE | RX-99-EO-F-499F-CON-SNB |  | 626 | VON |
| 1 | EA | ELEC FIRE EXIT HARDWARE | RX-QEL-99-NL-F-499F-CON-SNB 24 VDC |  | 626 | VON |
| 1 | EA | MORTISE CYLINDER | 20-001 |  | 626 | SCH |
| 1 | EA | RIM CYLINDER | 20-022 |  | 626 | SCH |
| 2 | EA | SURFACE CLOSER | 4040XP SCUSH TBSRT X MTG PLT/BRKT/SPCR AS REQ |  | 689 | LCN |
| 2 | EA | KICK PLATE | 8400 10" X 2" LDW B-CS |  | 630 | IVE |
| 1 | EA | RAIN DRIP | 142A DW + 4" (OMIT @ COVERED AREAS) |  | AA | ZER |
| 1 | EA | GASKETING SET | 188S PSA H & J |  | BK | ZER |
| 1 | SET | MEETING STILE | 328AA (2 PCS - 1 SET) |  | AA | ZER |
| 1 | EA | MULLION SEAL | 8780NBK PSA |  | BK | ZER |
| 2 | EA | DOOR SWEEP | 39A |  | A | ZER |
| 1 | EA | THRESHOLD | 65A |  | A | ZER |
| 2 | EA | WIRE HARNESS (IN DOOR) | CON-XXP - LENGTH AS REQ | | | SCH |
| 2 | EA | HARNESS (TO POWER SUPPLY) | CON-6W - CONNECTION LEADS | | | SCH |
| 1 | EA | CREDENTIAL READER | BY SECURITY CONTRACTOR | | | |
| 2 | EA | DOOR CONTACT | BY SECURITY CONTRACTOR | | | |
| 1 | EA | POWER SUPPLY | BY SECURITY CONTRACTOR | | | |

DOOR NORMALLY CLOSED AND LOCKED. ENTRY VIA VALID CREDENTIAL OR KEY OVERRIDE.
FREE EGRESS AT ALL TIMES. DOOR TO REMAIN LOCKED UPON POWER FAILURE OR FIRE
ALARM ACTIVATION. FAIL-SECURE.
















UTRGV / EDINBURG CISD COLLEGIATE HIGH SCHOOL
GMS ARCHITECTS

HARDWARE SET # C714WMR

For use on Door #(s):

117-1 129-1 132-1

Each PR door to have:

| QTY | | DESCRIPTION | CATALOG NUMBER | | FINISH | MFR |
|-----|-----|------------------------------|--|---|--------|-----|
| 6 | EA | HINGE | 5BB1HW 5 X 4.5 NRP |  | 630 | IVE |
| 2 | EA | POWER TRANSFER | EPT10 CON |  | 689 | VON |
| 1 | EA | FIRE RATED REMOVABLE MULLION | KR9954 STAB MT54 |  | 689 | VON |
| 1 | EA | ELEC FIRE EXIT HARDWARE | RX-99-EO-F-499F-CON-SNB - LENGTH AS REQ |  | 626 | VON |
| 1 | EA | ELEC FIRE EXIT HARDWARE | RX-QEL-99-NL-F-499F-CON-SNB 24 VDC - LENGTH AS REQ |  | 626 | VON |
| 1 | EA | MORTISE CYLINDER | 20-001 |  | 626 | SCH |
| 1 | EA | RIM CYLINDER | 20-022 |  | 626 | SCH |
| 2 | EA | SURFACE CLOSER | 4040XP SCUSH TBSRT X MTG PLT/BRKT/SPCR AS REQ |  | 689 | LCN |
| 2 | EA | KICK PLATE | 8400 10" X 2" LDW B-CS |  | 630 | IVE |
| 1 | EA | RAIN DRIP | 142A DW + 4" (OMIT @ COVERED AREAS) |  | AA | ZER |
| 1 | EA | GASKETING SET | 188S PSA H & J |  | BK | ZER |
| 1 | SET | MEETING STILE | 328AA (2 PCS - 1 SET) |  | AA | ZER |
| 1 | EA | MULLION SEAL | 8780NBK PSA |  | BK | ZER |
| 2 | EA | DOOR SWEEP | 39A |  | A | ZER |
| 1 | EA | THRESHOLD | 65A |  | A | ZER |
| 2 | EA | WIRE HARNESS (IN DOOR) | CON-XXP - LENGTH AS REQ | | | SCH |
| 2 | EA | HARNESS (TO POWER SUPPLY) | CON-6W - CONNECTION LEADS | | | SCH |
| 1 | EA | CREDENTIAL READER | BY SECURITY CONTRACTOR | | | |
| 2 | EA | DOOR CONTACT | BY SECURITY CONTRACTOR | | | |
| 1 | EA | POWER SUPPLY | BY SECURITY CONTRACTOR | | | |

DOOR NORMALLY CLOSED AND LOCKED. ENTRY VIA VALID CREDENTIAL OR KEY OVERRIDE. FREE EGRESS AT ALL TIMES. DOOR TO REMAIN LOCKED UPON POWER FAILURE OR FIRE ALARM ACTIVATION. FAIL-SECURE.











UTRGV / EDINBURG CISD COLLEGIATE HIGH SCHOOL
GMS ARCHITECTS

HARDWARE SET # C715

For use on Door #(s):

145-2 145-4 174-2

Each SGL door to have:

| QTY | | DESCRIPTION | CATALOG NUMBER | | FINISH | MFR |
|-----|----|------------------------------|--|---|--------|-----|
| 3 | EA | HINGE | 5BB1HW 4.5 X 4.5 NRP |  | 630 | IVE |
| 1 | EA | POWER TRANSFER | EPT10 CON |  | 689 | VON |
| 1 | EA | ELEC PANIC HARDWARE | RX-QEL-99-NL-CON-SNB 24 VDC |  | 626 | VON |
| 1 | EA | RIM CYLINDER | 20-022 |  | 626 | SCH |
| 1 | EA | SURFACE CLOSER | 4040XP SCUSH TBSRT X MTG PLT/BRKT/SPCR AS REQ |  | 689 | LCN |
| 1 | EA | KICK PLATE | 8400 10" X 2" LDW B-CS |  | 630 | IVE |
| 1 | EA | RAIN DRIP | 142A DW + 4" (OMIT @ COVERED AREAS) |  | AA | ZER |
| 1 | EA | GASKETING SET | 188S PSA H & J |  | BK | ZER |
| 1 | EA | DOOR SWEEP | 39A |  | A | ZER |
| 1 | EA | THRESHOLD | 65A |  | A | ZER |
| 1 | EA | WIRE HARNESS (IN DOOR) | CON-XXP - LENGTH AS REQ | | | SCH |
| 1 | EA | HARNESS (TO POWER SUPPLY) | CON-6W - CONNECTION LEADS | | | SCH |
| 1 | EA | CREDENTIAL READER | BY SECURITY CONTRACTOR | | | |
| 1 | EA | DOOR CONTACT | BY SECURITY CONTRACTOR | | | |
| 1 | EA | POWER SUPPLY | BY SECURITY CONTRACTOR | | | |








DOOR NORMALLY CLOSED AND LOCKED. ENTRY VIA VALID CREDENTIAL OR KEY OVERRIDE.
FREE EGRESS AT ALL TIMES. DOOR TO REMAIN LOCKED UPON POWER FAILURE OR FIRE
ALARM ACTIVATION. FAIL-SECURE.

UTRGV / EDINBURG CISD COLLEGIATE HIGH SCHOOL
GMS ARCHITECTS

HARDWARE SET # C715A

For use on Door #(s):
118D-1

Each SGL door to have:

| QTY | | DESCRIPTION | CATALOG NUMBER | FINISH | MFR |
|-----|-----|------------------------------|--|---|-----|
| 1 | EA | CONT. HINGE | 112XY EPT |  628 | IVE |
| 1 | EA | POWER TRANSFER | EPT10 CON |  689 | VON |
| 1 | EA | ELEC PANIC HARDWARE | RX-QEL-99-NL-CON-SNB 24 VDC |  626 | VON |
| 1 | EA | RIM CYLINDER | 20-022 |  626 | SCH |
| 1 | EA | SURFACE CLOSER | 4040XP SCUSH TBSRT X MTG PLT/BRKT/SPCR AS REQ |  689 | LCN |
| 1 | SET | SEAL | PERIMETER SEAL BY FRAME MANUFACTURER | | |
| 1 | EA | DOOR SWEEP | 39A |  A | ZER |
| 1 | EA | THRESHOLD | 65A |  A | ZER |
| 1 | EA | WIRE HARNESS (IN DOOR) | CON-XXP - LENGTH AS REQ | | SCH |
| 1 | EA | HARNESS (TO POWER SUPPLY) | CON-6W - CONNECTION LEADS | | SCH |
| 1 | EA | CREDENTIAL READER | BY SECURITY CONTRACTOR | | |
| 1 | EA | DOOR CONTACT | BY SECURITY CONTRACTOR | | |
| 1 | EA | POWER SUPPLY | BY SECURITY CONTRACTOR | | |












DOOR MUST HAVE MIN. 5" STILE TO ACCOMMODATE SPECIFIED HARDWARE.[OPERATIONAL DESCRIPTION] - DOOR NORMALLY CLOSED AND LOCKED. ENTRY VIA VALID CREDENTIAL OR KEY OVERRIDE. FREE EGRESS AT ALL TIMES. DOOR TO REMAIN LOCKED UPON POWER FAILURE OR FIRE ALARM ACTIVATION. FAIL-SECURE.

UTRGV / EDINBURG CISD COLLEGIATE HIGH SCHOOL
GMS ARCHITECTS

HARDWARE SET # C715WVR

For use on Door #(s):
157-1

Each SGL door to have:

| QTY | | DESCRIPTION | CATALOG NUMBER | | FINISH | MFR |
|-----|----|------------------------------|--|---|--------|-----|
| 3 | EA | HINGE | 5BB1HW 5 X 4.5 NRP |  | 630 | IVE |
| 1 | EA | POWER TRANSFER | EPT10 CON |  | 689 | VON |
| 1 | EA | ELEC FIRE EXIT HARDWARE | RX-QEL-99-NL-F-CON-SNB 24 VDC |  | 626 | VON |
| 1 | EA | RIM CYLINDER | 20-022 |  | 626 | SCH |
| 1 | EA | SURFACE CLOSER | 4040XP SCUSH TBSRT X MTG PLT/BRKT/SPCR AS REQ |  | 689 | LCN |
| 1 | EA | KICK PLATE | 8400 10" X 2" LDW B-CS |  | 630 | IVE |
| 1 | EA | RAIN DRIP | 142A DW + 4" (OMIT @ COVERED AREAS) |  | AA | ZER |
| 1 | EA | GASKETING SET | 188S PSA H & J |  | BK | ZER |
| 1 | EA | DOOR SWEEP | 39A |  | A | ZER |
| 1 | EA | THRESHOLD | 65A |  | A | ZER |
| 1 | EA | VIEWER | U698 |  | 626 | IVE |
| 1 | EA | WIRE HARNESS (IN DOOR) | CON-XXP - LENGTH AS REQ | | | SCH |
| 1 | EA | HARNESS (TO POWER SUPPLY) | CON-6W - CONNECTION LEADS | | | SCH |
| 1 | EA | CREDENTIAL READER | BY SECURITY CONTRACTOR | | | |
| 1 | EA | DOOR CONTACT | BY SECURITY CONTRACTOR | | | |
| 1 | EA | POWER SUPPLY | BY SECURITY CONTRACTOR | | | |







DOOR NORMALLY CLOSED AND LOCKED. ENTRY VIA VALID CREDENTIAL OR KEY OVERRIDE.
FREE EGRESS AT ALL TIMES. DOOR TO REMAIN LOCKED UPON POWER FAILURE OR FIRE
ALARM ACTIVATION. FAIL-SECURE.

UTRGV / EDINBURG CISD COLLEGIATE HIGH SCHOOL
GMS ARCHITECTS

HARDWARE SET # CR201A

For use on Door #(s):
102-2

Each SGL door to have:

| QTY | | DESCRIPTION | CATALOG NUMBER | | FINISH | MFR |
|-----|-----|---------------------------|---|---|--------|-----|
| 1 | EA | CONT. HINGE | 112XY |  | 628 | IVE |
| 1 | EA | VANDL STOREROOM LOCK | ND96P6D RHO |  | 626 | SCH |
| 1 | EA | ELECTRIC STRIKE | 6211 FSE CON 12/16/24/28 VAC/VDC |  | 630 | VON |
| 1 | EA | SURFACE CLOSER | 1461 RW/PA FC X MTG PLT/BRKT/SPCR AS REQ |  | 689 | LCN |
| 1 | EA | FLOOR/WALL STOP | FS436/WS406CCV AS REQ |  | 626 | IVE |
| 1 | SET | SEAL | PERIMETER SEAL BY FRAME MANUFACTURER | | | |
| 1 | EA | HARNESS (TO POWER SUPPLY) | CON-6W - CONNECTION LEADS | | | SCH |
| 1 | EA | CREDENTIAL READER | BY SECURITY CONTRACTOR | | | |
| 1 | EA | REMOTE RELEASE BUTTON | 660-PB X BY SECURITY CONTRACTOR |  | 628 | SCE |
| 1 | EA | DOOR CONTACT | BY SECURITY CONTRACTOR | | | |
| 1 | EA | POWER SUPPLY | BY SECURITY CONTRACTOR | | | |






DOOR MUST HAVE MIN. 5" STILE TO ACCOMMODATE SPECIFIED HARDWARE.
[OPERATIONAL DESCRIPTION] - DOOR NORMALLY CLOSED AND LOCKED FROM LOBBY. ENTRY VIA VALID CREDENTIAL, REMOTE RELEASE BY RECEPTIONIST OR KEY OVERRIDE. DOOR TO REMAIN LOCKED UPON POWER FAILURE OR FIRE ALARM ACTIVATION. FAIL-SECURE.

UTRGV / EDINBURG CISD COLLEGIATE HIGH SCHOOL
GMS ARCHITECTS

HARDWARE SET # CR201AC

For use on Door #(s):
102-1

Each SGL door to have:

| QTY | | DESCRIPTION | CATALOG NUMBER | FINISH | MFR |
|-----|-----|--------------------------|---|---|-----|
| 1 | EA | CONT. HINGE | 112XY |  628 | IVE |
| 1 | EA | VANDL STOREROOM LOCK | ND96P6D RHO |  626 | SCH |
| 1 | EA | ELECTRIC STRIKE | 6211 FSE CON 12/16/24/28 VAC/VDC |  630 | VON |
| 1 | EA | SURFACE CLOSER | 1461 SCUSH FC X MTG PLT/BRKT/SPCR AS REQ |  689 | LCN |
| 1 | SET | SEAL | PERIMETER SEAL BY FRAME MANUFACTURER | | |
| 1 | EA | HARNES (TO POWER SUPPLY) | CON-6W - CONNECTION LEADS | | SCH |
| 1 | EA | CREDENTIAL READER | BY SECURITY CONTRACTOR | | |
| 1 | EA | REMOTE RELEASE BUTTON | 660-PB X BY SECURITY CONTRACTOR |  628 | SCE |
| 1 | EA | DOOR CONTACT | BY SECURITY CONTRACTOR | | |
| 1 | EA | POWER SUPPLY | BY SECURITY CONTRACTOR | | |

DOOR MUST HAVE MIN. 5" STILE TO ACCOMMODATE SPECIFIED HARDWARE.
[OPERATIONAL DESCRIPTION] - DOOR NORMALLY CLOSED AND LOCKED. ENTRY VIA VALID CREDENTIAL, REMOTE RELEASE BY RECEPTIONIST OR KEY OVERRIDE. FREE EGRESS AT ALL TIMES. DOOR TO REMAIN LOCKED UPON POWER FAILURE OR FIRE ALARM ACTIVATION. FAIL-SECURE.

END OF SECTION

SECTION 106500 OPERABLE PARTITIONS

PART 1 – GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes the following:
 - 1. Manually operated, paired panel operable partitions.
- B. Related Sections include the following:
 - 1. Division 3 Sections for concrete tolerances required.
 - 2. Division 5 Sections for primary structural support, including pre-punching of support members by structural steel supplier per operable partition supplier's template.
 - 3. Division 6 Sections for wood framing and supports, and all blocking at head and jambs as required.
 - 4. Division 9 Sections for wall and ceiling framing at head and jambs.

1.3 QUALITY ASSURANCE

- A. Installer Qualifications: An experienced installer who is certified in writing by the operable partition manufacturer, as qualified to install the manufacturer's partition systems for work similar in material, design, and extent to that indicated for this Project.
- B. Acoustical Performance: Test operable partitions in an independent acoustical laboratory in accordance with ASTM E90 test procedure to attain no less than the STC rating specified. Provide a complete and unedited written test report by the testing laboratory upon request.
- C. Preparation of the opening shall conform to the criteria set forth per ASTM E557 "Standard Practice for Architectural Application and Installation of Operable Partitions."

1.4 SUBMITTALS

- A. Product Data: Material descriptions, construction details, finishes, installation details, and operating instructions for each type of operable partition, component, and accessory specified.
- B. Shop Drawings: Show location and extent of operable partitions. Include plans, elevations, sections, details, attachments to other construction, and accessories. Indicate dimensions, weights, conditions at openings, and at storage areas, and required installation, storage, and operating clearances. Indicate location and installation requirements for hardware and track, including floor tolerances required and direction of travel. Indicate blocking to be provided by others.
- C. Setting Drawings: Show imbedded items and cutouts required in other work, including support beam punching template.
- D. Samples: Color samples demonstrating full range of finishes available by architect. Verification samples will be available in same thickness and material indicated for the work.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Clearly mark packages and panels with numbering systems used on Shop Drawings. Do not use permanent markings on panels.

- B. Protect panels during delivery, storage, and handling to comply with manufacturer's direction and as required to prevent damage.

1.6 WARRANTY

- A. Provide written warranty by manufacturer of operable partitions agreeing to repair or replace any components with manufacturing defects.
- B. Warranty period: Two (2) years.

PART 2 – PRODUCTS

2.1 MANUFACTURERS, PRODUCTS, AND OPERATION

- A. Manufacturers: Subject to compliance with requirements, provide products by the following:
 - 1. Basis of Design: Moderco
Modernfold, Inc.
- B. Products: Subject to compliance with the requirements, provide the following product:
 - 1. Basis of Design: Moderco Model 8500

2.2 OPERATION

- A. Moderco Model 8500: Series of paired flat panels hinged together in pairs, manually operated, top supported with operable floor seals.
- B. Final Closure
 - 1. Hinged panel closure

2.3 PANEL CONSTRUCTION

- A. Nominal 3-inch (76mm) thick panels in manufacturer's standard 48-inch (1220mm) widths. All panel horizontal and vertical framing members fabricated from minimum 18-gage formed steel with overlapped and welded corners for rigidity. Top channel is reinforced to support suspension system components. Frame is designed so that full vertical edges of panels are of formed steel and provide concealed protection of the edges of the panel skin.
- B. Panel Skin Options:
 - 1. Roll-formed steel wrapping around panel edge. Panel skins shall be lock formed and welded directly to the frame for unitized construction. Acoustical ratings of panels with this construction (select one):
 - a. 55 STC
- C. Hinges for Panels, Closure Panels, Pass Doors, and Pocket Doors shall be:
 - 1. Full leaf butt hinges, attached directly to panel frame with welded hinge anchor plates within panel to further support hinge mounting to frame. Lifetime warranty on hinges. Hinges mounted into panel edge or vertical astragal are not acceptable.
- D. Panel Trim: No vertical trim required or allowed on edges of panels; minimal groove appearance at panel joints.
- E. Panel Weights:
 - Steel Skin: 55 STC – 11 lbs./square foot
- F. Panel Width: Adjust panel widths to conform with pocket size noted on documents.

2.4 PANEL FINISHES

- A. Panel face shall be:

1. Acoustical, non-woven needle punch carpet, with fused fibers to prevent unraveling or fray of material.
- Panel Trim: Exposed panel trim of one consistent color.

2.5 SOUND SEALS

- A. Vertical Interlocking Sound Seals between panels: Roll-formed steel astragals, with reversible tongue and groove configuration in each panel edge for universal panel operation. Rigid plastic astragals or astragals in only one panel edge are not acceptable.
- B. Horizontal Top Seals: Continuous contact extruded vinyl bulb shape with pairs of non-contacting vinyl fingers to prevent distortion without the need for mechanically operated parts.
- C. Horizontal Bottom Seals:
 1. Moderco Model 8500: Manually activated bottom seals with self-contained handle providing nominal 2-inch (51mm) operating clearance with an operating range of +1/2-inch (13mm) to -1-1/2-inch (38mm). Seal shall be operable from panel edge or face.

2.6 SUSPENSION SYSTEM

- A. #14 Suspension System
 1. Suspension Tracks: Minimum 7-gage, 0.18-inch (4.57mm) roll formed steel. Static loading of track with brackets at 48-inch (1220mm) centers shall show no failure of track or brackets at 5,000 pounds (2550kg) point loading at midspan. Track shall be supported by adjustable steel hanger brackets connected to structural support pairs of 1/2-inch (13mm) diameter threaded rods. Brackets must support the load bearing surface of the track.
 - a. Exposed track soffit: Steel, removable for service and maintenance, attached to track bracket without exposed fasteners, and prepainted off-white.
 2. Carriers: One all steel trolley with steel-tired ball bearing wheels per panel (except hinged panels). Non-steel tires are not acceptable.

PART 3 – EXECUTION

3.1 INSTALLATION

- A. General: Comply with ASTM E557, operable partition manufacturer's written installation instructions, Drawings and approved Shop Drawings.
- B. Install operable partitions and accessories after other finishing operations, including painting have been completed.
- C. Match operable partitions by installing panels from marked packages in numbered sequence indicated on Shop Drawings.
- D. Broken, cracked, chipped, deformed, or unmatched panels are not acceptable.

3.2 CLEANING AND PROTECTION

- A. Clean partition surfaces upon completing installation of operable partitions to remove dust, dirt, adhesives, and other foreign materials according to manufacturer's written instructions.
- B. Provide final protection and maintain conditions in a manner acceptable to the manufacturer and Installer that insure operable partitions are without damage or deterioration at time of Substantial Completion.

3.3 ADJUSTING

- A. Adjust operable partitions to operate smoothly, easily, and quietly, free from binding, warp, excessive deflection, distortion, nonalignment, misplacement, disruption, or malfunction, throughout entire operational range. Lubricate hardware and other moving parts.

3.4 EXAMINATION

- A. Examine flooring, structural support, and opening, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of operable partitions. Proceed with installation only after unsatisfactory conditions have been corrected.

3.5 DEMONSTRATION

- A. Demonstrate proper operation and maintenance procedures to Owner's representative.
- B. Provide Operation and Maintenance Manual to Owner's representative.

END OF SECTION 106500



1150 Paredes Line Rd.
 Brownsville TX 78526
 (956) 546-0110
 fax (956) 546-0196



01 1ST LEVEL OVERALL FLOOR PLAN
 SCALE: 1/32"=1'-0"

UTRGV/ EDINBURG CISD
COLLEGIATE HIGH SCHOOL

FOR CONSTRUCTION



01/01/2022
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 Interior Designers

Date: September 9, 2022
 Scale: As Noted
 Project Architect: David Monreal, AIA
 Drawn By: JA, CM, CG
 Job No.: UTRGV/CISD
 Sheet:

A2.01



1150 Paredes Line Rd.
Brownsville TX 78526
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fax (956) 546-0196

| ROOM FINISH SCHEDULE | | | | | | | | | | THIS SCHEDULE BASED ON PLAN NORTH ORIENTATION | |
|----------------------|----------------------------|--------|---------|--------|--------|--------|--------|---------|--------|---|--|
| ROOM | ROOM NAME | BASE | FLR. | WALLS | | | | CLG. | 9'-0" | REMARKS | |
| | | | | N | S | E | W | | | | |
| 112 | CLINIC | RUBBER | LVT | GYPPTD | GYPPTD | GYPPTD | GYPPTD | SAC I | 9'-0" | | |
| 112A | OFFICE | RUBBER | LVT | GYPPTD | GYPPTD | GYPPTD | GYPPTD | SAC I | 9'-0" | | |
| 113 | CLINIC STO. | RUBBER | LVT | GYPPTD | GYPPTD | GYPPTD | GYPPTD | SAC I | 9'-0" | | |
| 114 | CLINIC W/C | CT | CT | GYPPTD | GYPPTD | GYPPTD | GYPPTD | SAC III | 9'-0" | 6'-0" CT WAINSCOT | |
| 115 | PRINCIPAL | RUBBER | CPT | GYPPTD | GYPPTD | GYPPTD | GYPPTD | SAC I | 9'-0" | | |
| 116 | CONFERENCE | RUBBER | CPT | GYPPTD | GYPPTD | GYPPTD | GYPPTD | SAC II | 9'-0" | | |
| 117 | MEP | CONC | GYPPTD | GYPPTD | GYPPTD | GYPPTD | GYPPTD | | | | |
| 118 | T. LOUNGE | RUBBER | LVT | GYPPTD | GYPPTD | GYPPTD | GYPPTD | SAC I | 9'-0" | | |
| 118A | WC | CT | CT | GYPPTD | GYPPTD | GYPPTD | GYPPTD | SAC III | 9'-0" | | |
| 118B | CORRIDOR | RUBBER | LVT | GYPPTD | GYPPTD | GYPPTD | GYPPTD | SAC II | 9'-0" | | |
| 118C | CORRIDOR | RUBBER | LVT | GYPPTD | GYPPTD | GYPPTD | GYPPTD | SAC II | 9'-0" | | |
| 118D | CORRIDOR | RUBBER | LVT | GYPPTD | GYPPTD | GYPPTD | GYPPTD | SAC II | 9'-0" | | |
| 119 | STORAGE | RUBBER | LVT | GYPPTD | GYPPTD | GYPPTD | GYPPTD | SAC I | 9'-0" | | |
| 120 | WC | CT | CT | GYPPTD | GYPPTD | GYPPTD | GYPPTD | SAC III | 9'-0" | 6'-0" CT WAINSCOT | |
| 121 | WC | CT | CT | GYPPTD | GYPPTD | GYPPTD | GYPPTD | SAC III | 9'-0" | 6'-0" CT WAINSCOT | |
| 127 | GIRLS | CT | CT | GYPPTD | GYPPTD | GYPPTD | GYPPTD | SAC III | 9'-0" | 6'-0" CT WAINSCOT | |
| 127A | GIRLS CHANGING ROOM | CT | CT | GYPPTD | GYPPTD | GYPPTD | GYPPTD | SAC III | 9'-0" | 6'-0" CT WAINSCOT | |
| 128 | MOF | RUBBER | LVT | GYPPTD | GYPPTD | GYPPTD | GYPPTD | SAC IV | 9'-0" | | |
| 128A | MOF2 | RUBBER | LVT | GYPPTD | GYPPTD | GYPPTD | GYPPTD | SAC IV | 9'-0" | | |
| 129 | MEP | CONC | GYPPTD | GYPPTD | GYPPTD | GYPPTD | GYPPTD | | | | |
| 130 | COMPUTER SCIENCE | RUBBER | LVT | GYPPTD | GYPPTD | GYPPTD | GYPPTD | CLOUDI | 9'-0" | PAINT EXPOSED CEILING BLACK | |
| 131 | WC | CT | CT | GYPPTD | GYPPTD | GYPPTD | GYPPTD | SAC III | 9'-0" | 6'-0" CT WAINSCOT | |
| 132 | MEP | GYPPTD | GYPPTD | GYPPTD | GYPPTD | GYPPTD | GYPPTD | | | | |
| 133 | CORRIDOR | RUBBER | LVT | GYPPTD | GYPPTD | GYPPTD | GYPPTD | SAC II | 10'-0" | | |
| 133A | BREAK OUT | RUBBER | CPT/LVT | GYPPTD | GYPPTD | GYPPTD | GYPPTD | SGBC | 10'-0" | PROVIDE CERAMIC TILE AT HAND WASHING STATION REF. A2.14 | |
| 134 | CLASSROOM | RUBBER | LVT | GYPPTD | GYPPTD | GYPPTD | GYPPTD | SAC I | 9'-0" | | |
| 134A | CORRIDOR | RUBBER | LVT | GYPPTD | GYPPTD | GYPPTD | GYPPTD | SAC II | 10'-0" | | |
| 134B | STAIRS | RUBBER | CPT/LVT | GYPPTD | GYPPTD | GYPPTD | GYPPTD | SAC I | 9'-0" | PRECAST CONCRETE TREADS AND LANDING / REF SHEET A2.14 | |
| 135 | CLASSROOM | RUBBER | LVT | GYPPTD | GYPPTD | GYPPTD | GYPPTD | SAC I | 9'-0" | | |
| 136 | CLASSROOM | RUBBER | LVT | GYPPTD | GYPPTD | GYPPTD | GYPPTD | SAC I | 9'-0" | | |
| 137 | CLASSROOM | RUBBER | LVT | GYPPTD | GYPPTD | GYPPTD | GYPPTD | SAC I | 9'-0" | | |
| 138 | CLASSROOM | RUBBER | LVT | GYPPTD | GYPPTD | GYPPTD | GYPPTD | SAC I | 9'-0" | | |
| 139 | CLASSROOM | RUBBER | LVT | GYPPTD | GYPPTD | GYPPTD | GYPPTD | SAC I | 9'-0" | | |
| 140 | CLASSROOM | RUBBER | LVT | GYPPTD | GYPPTD | GYPPTD | GYPPTD | SAC I | 9'-0" | | |
| 141 | CLASSROOM | RUBBER | LVT | GYPPTD | GYPPTD | GYPPTD | GYPPTD | SAC I | 9'-0" | | |
| 142 | ENTRY | RUBBER | LVT | GYPPTD | GYPPTD | GYPPTD | GYPPTD | SAC I | 9'-0" | | |
| 143 | CLASSROOM | RUBBER | LVT | GYPPTD | GYPPTD | GYPPTD | GYPPTD | SAC I | 9'-0" | | |
| 144 | INSTRUCTIONAL TECH LAB | RUBBER | LVT | GYPPTD | GYPPTD | GYPPTD | GYPPTD | SAC I | 9'-0" | | |
| 145 | PRE-ENGINEERING | CONC | GYPPTD | GYPPTD | GYPPTD | GYPPTD | GYPPTD | | | EXPOSED CEILING PAINT BLACK ACCENT PAINT JOISTS | |
| 146 | COMPUTER AIDED ENGINEERING | RUBBER | LVT | GYPPTD | GYPPTD | GYPPTD | GYPPTD | SAC I | 9'-0" | | |
| 147 | CLASSROOM | RUBBER | LVT | GYPPTD | GYPPTD | GYPPTD | GYPPTD | SAC I | 9'-0" | | |
| 148 | BREAK OUT | RUBBER | CPT | GYPPTD | GYPPTD | GYPPTD | GYPPTD | SGBC | 10'-0" | | |
| 149 | PHYSICS LAB | RUBBER | LVT | GYPPTD | GYPPTD | GYPPTD | GYPPTD | SAC I | 9'-0" | | |
| 150 | PHYSICS LAB | RUBBER | LVT | GYPPTD | GYPPTD | GYPPTD | GYPPTD | SAC I | 9'-0" | | |
| 151 | STO. | RUBBER | LVT | GYPPTD | GYPPTD | GYPPTD | GYPPTD | SAC I | 9'-0" | | |
| 152 | PREP RM | RUBBER | LVT | GYPPTD | GYPPTD | GYPPTD | GYPPTD | SAC I | 9'-0" | | |

01 1ST LEVEL FLOOR PLAN
SCALE: 1/8" = 1'-0"

GENERAL NOTES:

- REFERENCE A4.00 SERIES FOR WALL SECTIONS NOTED ON THIS PLAN.
- PROVIDE TRANSITION STRIPS AT ALL DISSIMILAR FLOOR CONDITIONS.
- REFERENCE FIXTURE PLANS SHEET FOR FIXTURES, ACCESSORY REQUIREMENTS AND FLOOR TILE PATTERN LAYOUT.
- REFERENCE SHEET A3.02 FOR TOILET ENLARGEMENTS.

ALUMINUM CANOPY SYSTEMS:

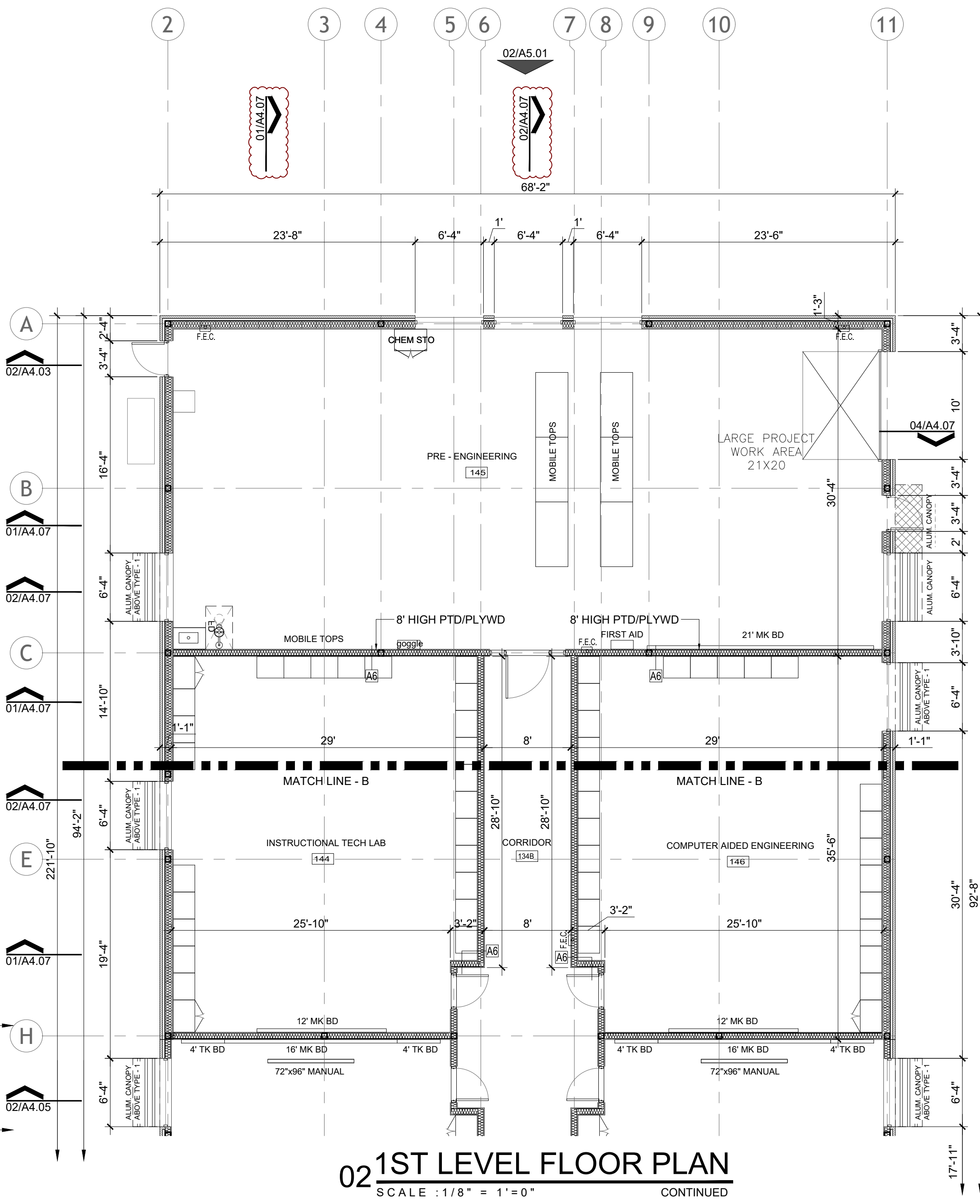
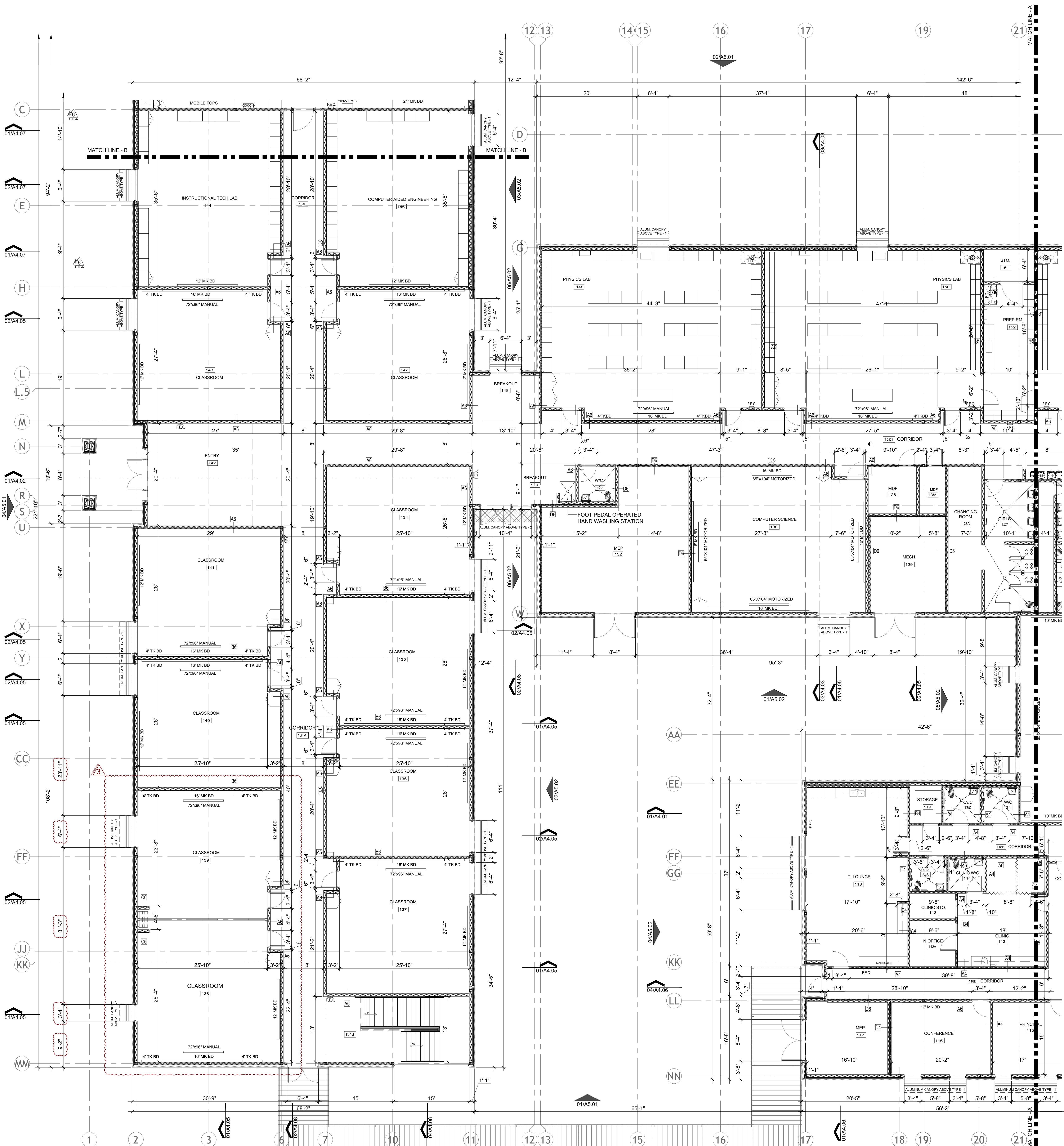
- ALUMINUM CANOPY SYSTEM TYPE - 1 = WITH SUN SHADE FINS AS SPECIFIED
- ALUMINUM CANOPY SYSTEM TYPE - 2 = WITH SELF DRAINING DECK AS SPECIFIED

FINISH LEGEND:

- RUBBER - RUBBER BASE
- PTD - PAINTED
- CMU/PTD - CONC. MASONRY UNIT PAINTED
- GYPPTD - GYPSUM BOARD PAINTED
- CONC - SEALED CONCRETE
- MTL - METAL SOFFIT PANELS
- C.T. - CERAMIC TILE BY BAL-TILE
- FR - FRP WALL PANEL
- TRZ - TERRAZO
- CPT - CARPET
- SAC - SUSPENDED ACOUSTICAL CEILING
- SGBC - SUSPENDED GYPSUM BOARD CEILING

WALL TYPE LEGEND

- INDICATES 1HR FIRE RATED WALL REFER TO INTERIOR PARTITION SECTIONS FOR ADDITIONAL INFORMATION PROVIDE 5/8" TYPE X FIRE RATED GYP BRD EACH SIDE OF STUD AS NEEDED
- INDICATES METAL STUD WALL REFER TO STRUCTURAL FOR ADDITIONAL INFORMATION
- INDICATES METAL STUD & BRICK WALL REFER TO STRUCTURAL FOR ADDITIONAL INFORMATION
- INDICATES METAL STUD & COMPOSITE PANEL WALL REFER TO STRUCTURAL FOR ADDITIONAL INFORMATION



UTRGV/ EDINBURG CISD COLLEGIATE HIGH SCHOOL



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Architects-Planners
Interior Designers

Date: September 9, 2022
Scale: As Noted
Project Architect: David Monreal, AIA
Drawn By: JA, CM, CG
Job No.: UTRGV/CISD
Sheet: A2.03



01 2nd LEVEL OVERALL FLOOR PLAN
 SCALE : 3/32"=1'-0"

UTRGV/ EDINBURG CISD
COLLEGIATE HIGH SCHOOL

FOR CONSTRUCTION
 REGISTERED ARCHITECT
 STATE OF TEXAS
 01/01/2022
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Sep 30, 2022 - 1:31pm C:\Users\JoseAlvarado\Dropbox\Edinburg UTRGV Collegiate High\CAD\ECISD UTRGV_A2.00 - A2.13 (Plans).dwg



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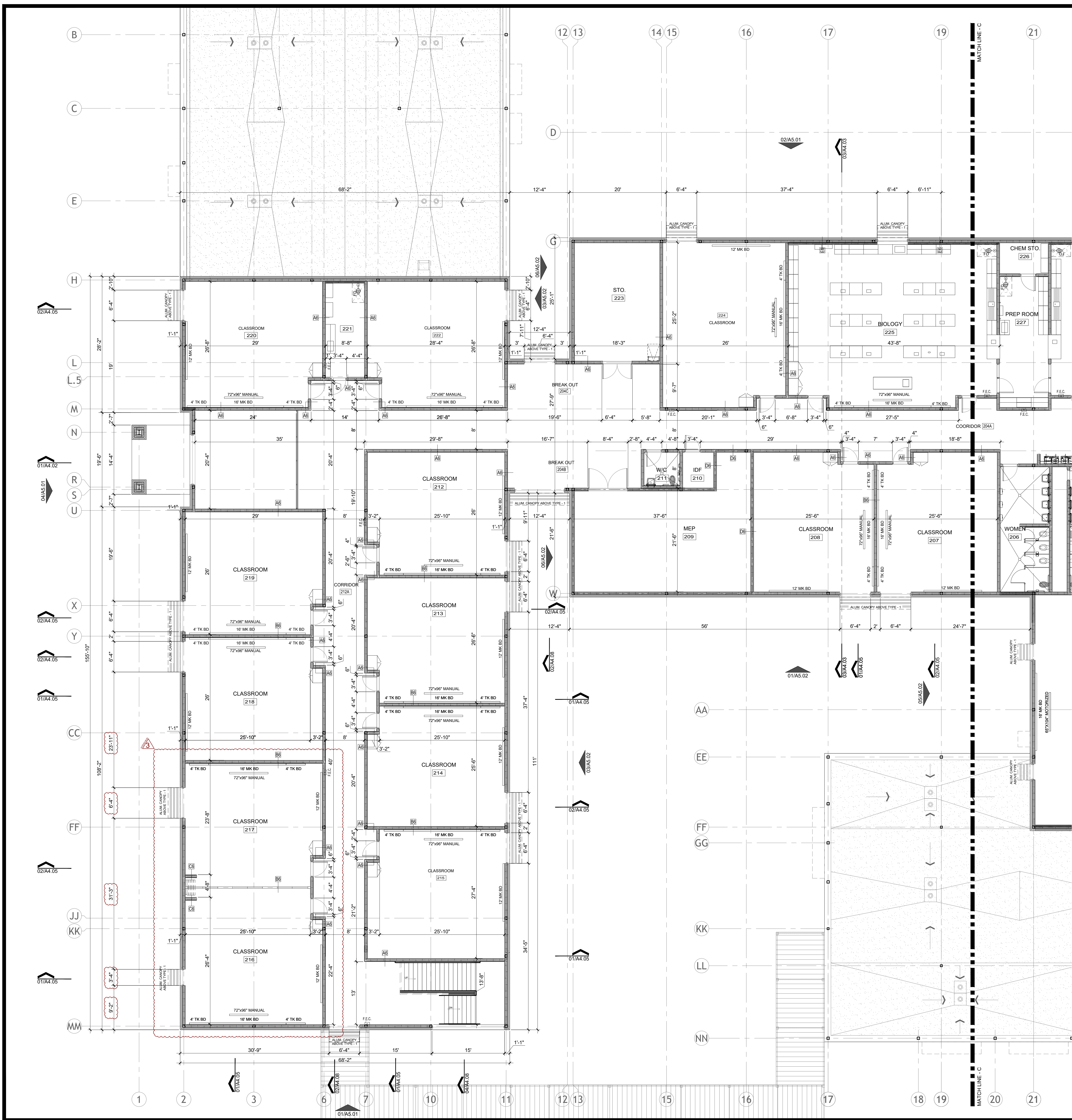
| ROOM FINISH SCHEDULE | | | | | | | | | | THIS SCHEDULE BASED ON PLAN NORTH ORIENTATION | |
|----------------------|-----------|--------|----------|----------|----------|----------|----------|---------|-------------|---|--|
| ROOM | ROOM NAME | BASE | FLR | WALLS | | | | CLG | CLG HEIGHTS | REMARKS | |
| | | | | N | S | E | W | | | | |
| 204A | CORRIDOR | RUBBER | LVT | GY/P/PTD | GY/P/PTD | GY/P/PTD | GY/P/PTD | SAC II | 10'-0" | | |
| 226B | BREAK OUT | RUBBER | CPT | GY/P/PTD | GY/P/PTD | GY/P/PTD | GY/P/PTD | SGBC | 10'-0" | | |
| 226B | BREAK OUT | RUBBER | CPT | GY/P/PTD | GY/P/PTD | GY/P/PTD | GY/P/PTD | SGBC | 10'-0" | | |
| 208 | CLASSROOM | RUBBER | LVT | GY/P/PTD | GY/P/PTD | GY/P/PTD | GY/P/PTD | SAC I | 9'-0" | | |
| 209 | MEP | CONC | GY/P/PTD | GY/P/PTD | GY/P/PTD | GY/P/PTD | GY/P/PTD | | | | |
| 210 | IDF | RUBBER | CONC | GY/P/PTD | GY/P/PTD | GY/P/PTD | GY/P/PTD | SAC IV | 9'-0" | | |
| 211 | WC | CT | CT | GY/P/PTD | GY/P/PTD | GY/P/PTD | GY/P/PTD | SAC III | 9'-0" | 6'-0" CT WAINSCOT | |
| 212 | CLASSROOM | RUBBER | LVT | GY/P/PTD | GY/P/PTD | GY/P/PTD | GY/P/PTD | SAC I | 9'-0" | | |
| 212A | CORRIDOR | RUBBER | LVT | GY/P/PTD | GY/P/PTD | GY/P/PTD | GY/P/PTD | SAC II | 10'-0" | | |
| 213 | CLASSROOM | RUBBER | LVT | GY/P/PTD | GY/P/PTD | GY/P/PTD | GY/P/PTD | SAC I | 9'-0" | | |
| 214 | CLASSROOM | RUBBER | LVT | GY/P/PTD | GY/P/PTD | GY/P/PTD | GY/P/PTD | SAC I | 9'-0" | | |
| 215 | CLASSROOM | RUBBER | LVT | GY/P/PTD | GY/P/PTD | GY/P/PTD | GY/P/PTD | SAC I | 9'-0" | | |
| 216 | CLASSROOM | RUBBER | LVT | GY/P/PTD | GY/P/PTD | GY/P/PTD | GY/P/PTD | SAC I | 9'-0" | | |
| 217 | CLASSROOM | RUBBER | LVT | GY/P/PTD | GY/P/PTD | GY/P/PTD | GY/P/PTD | SAC I | 9'-0" | | |
| 218 | CLASSROOM | RUBBER | LVT | GY/P/PTD | GY/P/PTD | GY/P/PTD | GY/P/PTD | SAC I | 9'-0" | | |
| 219 | CLASSROOM | RUBBER | LVT | GY/P/PTD | GY/P/PTD | GY/P/PTD | GY/P/PTD | SAC I | 9'-0" | | |
| 220 | CLASSROOM | RUBBER | LVT | GY/P/PTD | GY/P/PTD | GY/P/PTD | GY/P/PTD | SAC I | 9'-0" | | |
| 221 | STORAGE | RUBBER | LVT | GY/P/PTD | GY/P/PTD | GY/P/PTD | GY/P/PTD | SAC I | 9'-0" | | |
| 222 | CLASSROOM | RUBBER | LVT | GY/P/PTD | GY/P/PTD | GY/P/PTD | GY/P/PTD | SAC I | 9'-0" | | |
| 223 | STORAGE | RUBBER | LVT | GY/P/PTD | GY/P/PTD | GY/P/PTD | GY/P/PTD | SAC I | 9'-0" | | |
| 224 | CLASSROOM | RUBBER | LVT | GY/P/PTD | GY/P/PTD | GY/P/PTD | GY/P/PTD | SAC I | 9'-0" | | |
| 225 | BIOLOGY | RUBBER | LVT | GY/P/PTD | GY/P/PTD | GY/P/PTD | GY/P/PTD | SAC I | 9'-0" | | |

01 2ND LEVEL PARTIAL FLOOR PLAN
SCALE: 1/8" = 1'-0"

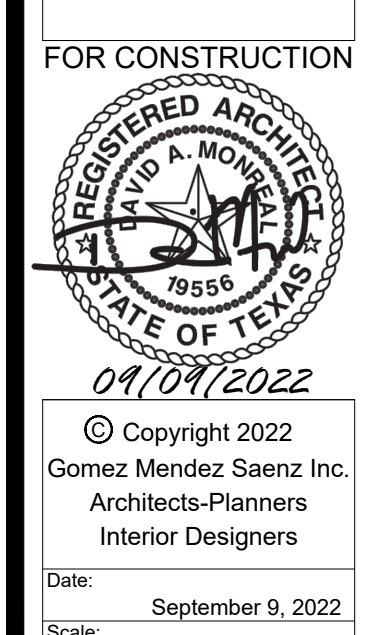
- GENERAL NOTES:**
- REFERENCE A4.00 SERIES FOR WALL SECTIONS NOTED ON THIS PLAN.
 - PROVIDE TRANSITION STRIPS AT ALL DISSIMILAR FLOOR CONDITIONS.
 - REFERENCE FIXTURE PLANS SHEET FOR FIXTURES, ACCESSORY REQUIREMENTS AND FLOOR TILE PATTERN LAYOUT.
 - REFERENCE SHEET A3.02 FOR TOILET ENLARGEMENTS.

- FINISH LEGEND:**
- RUBBER - RUBBER BASE
 - FLD - PAINTED
 - GY/P/PTD - GYPSUM BOARD PAINTED
 - CONC - SEALER CONCRETE
 - MTL - METAL SOFFIT PANELS
 - C.T. - CERAMIC TILE BY DAL-TILE
 - FRP - FRP WALL PANEL
 - TRZ - TERRAZO
 - CABRT - CABRET
 - SAC - SUSPENDED ACOUSTICAL CEILING
 - SGBC - SUSPENDED GYPSUM BOARD CEILING

- WALL TYPE LEGEND:**
- INDICATES 1HR FIRE RATED WALL REFER TO INTERIOR PARTITION SECTIONS FOR ADDITIONAL INFORMATION PROVIDE 5/8" TYPE X FIRE RATED GYP BRD EACH SIDE OF STUD AS NEEDED
 - INDICATES METAL STUD WALL REFER TO STRUCTURAL FOR ADDITIONAL INFORMATION
 - INDICATES METAL STUD & BRICK WALL REFER TO STRUCTURAL FOR ADDITIONAL INFORMATION
 - INDICATES METAL STUD & COMPOSITE PANEL WALL REFER TO STRUCTURAL FOR ADDITIONAL INFORMATION
- ALUMINUM CANOPY TYPES:**
- ALUMINUM CANOPY SYSTEM TYPE - 1 = WITH SUN SHADE FINS AS SPECIFIED
 - ALUMINUM CANOPY SYSTEM TYPE - 2 = WITH SELF DRAINING DECK AS SPECIFIED

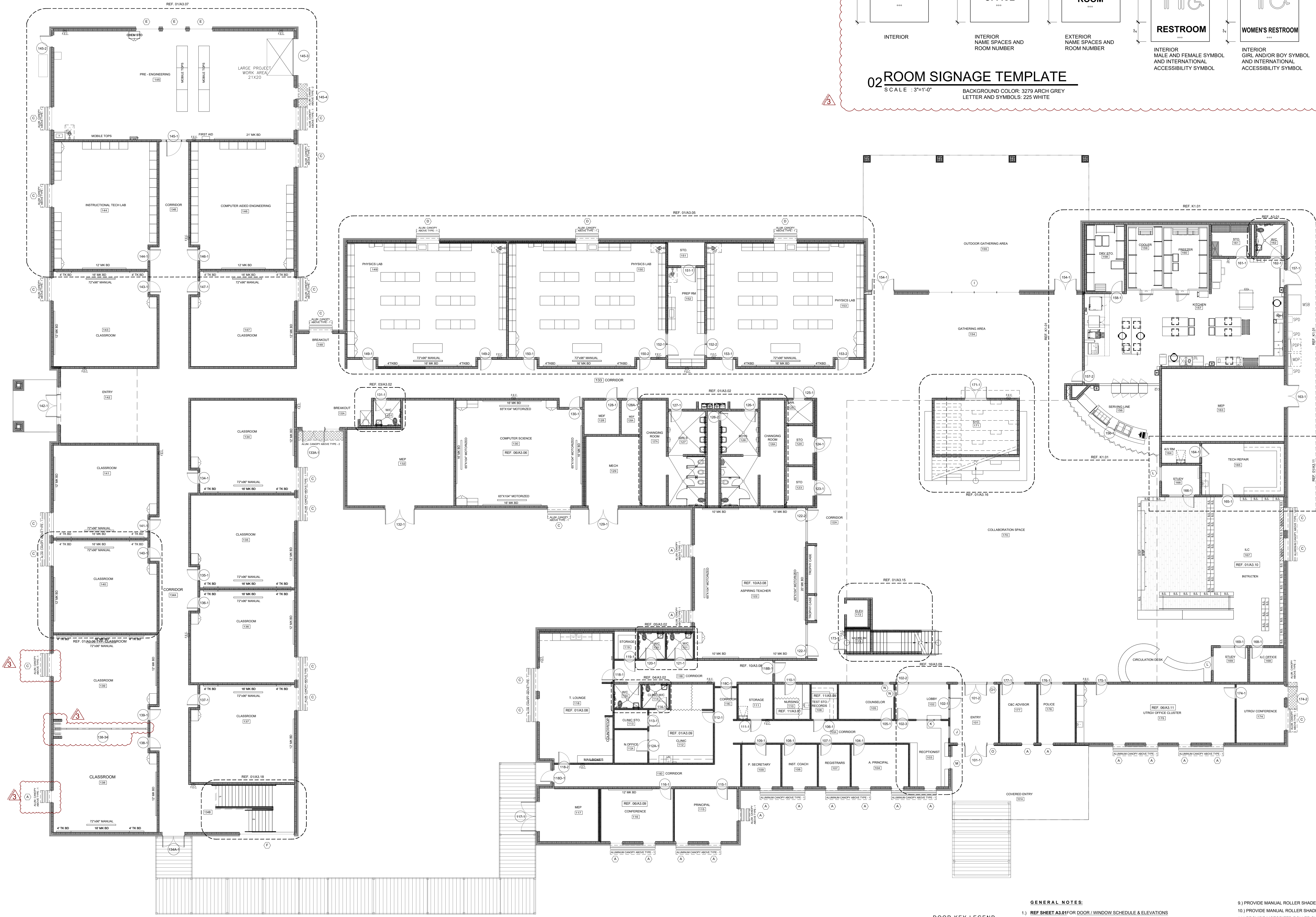
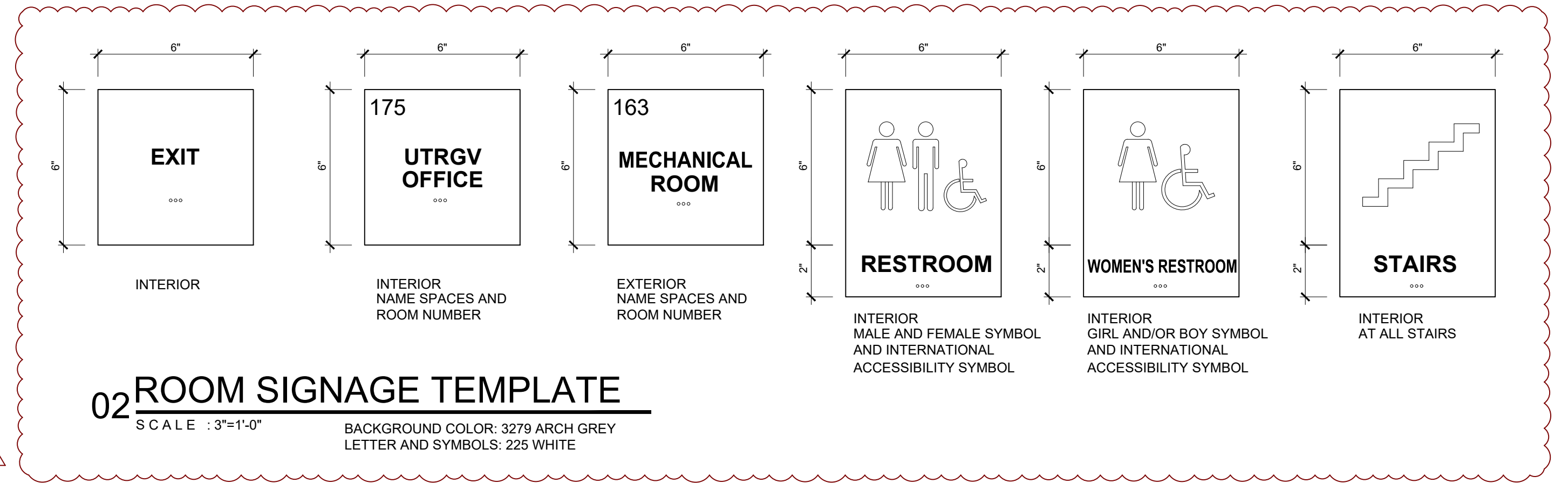


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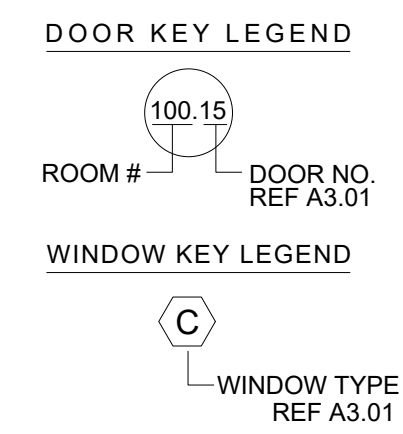


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Project Architect: David Monreal, AIA
Drawn By: JA, CM, CG
Job No: UTRGV/CISD
Sheet: A2.06

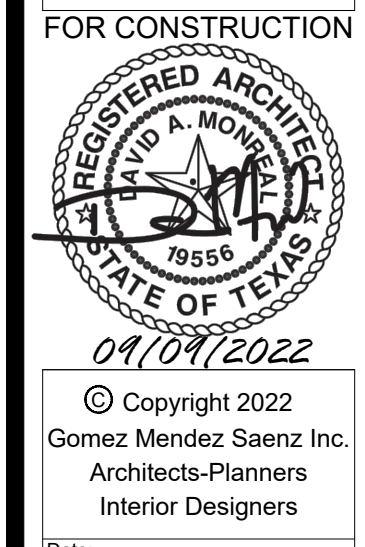


01 1ST LEVEL OVERALL FIXTURE PLAN
SCALE: 3/32"=1'-0"

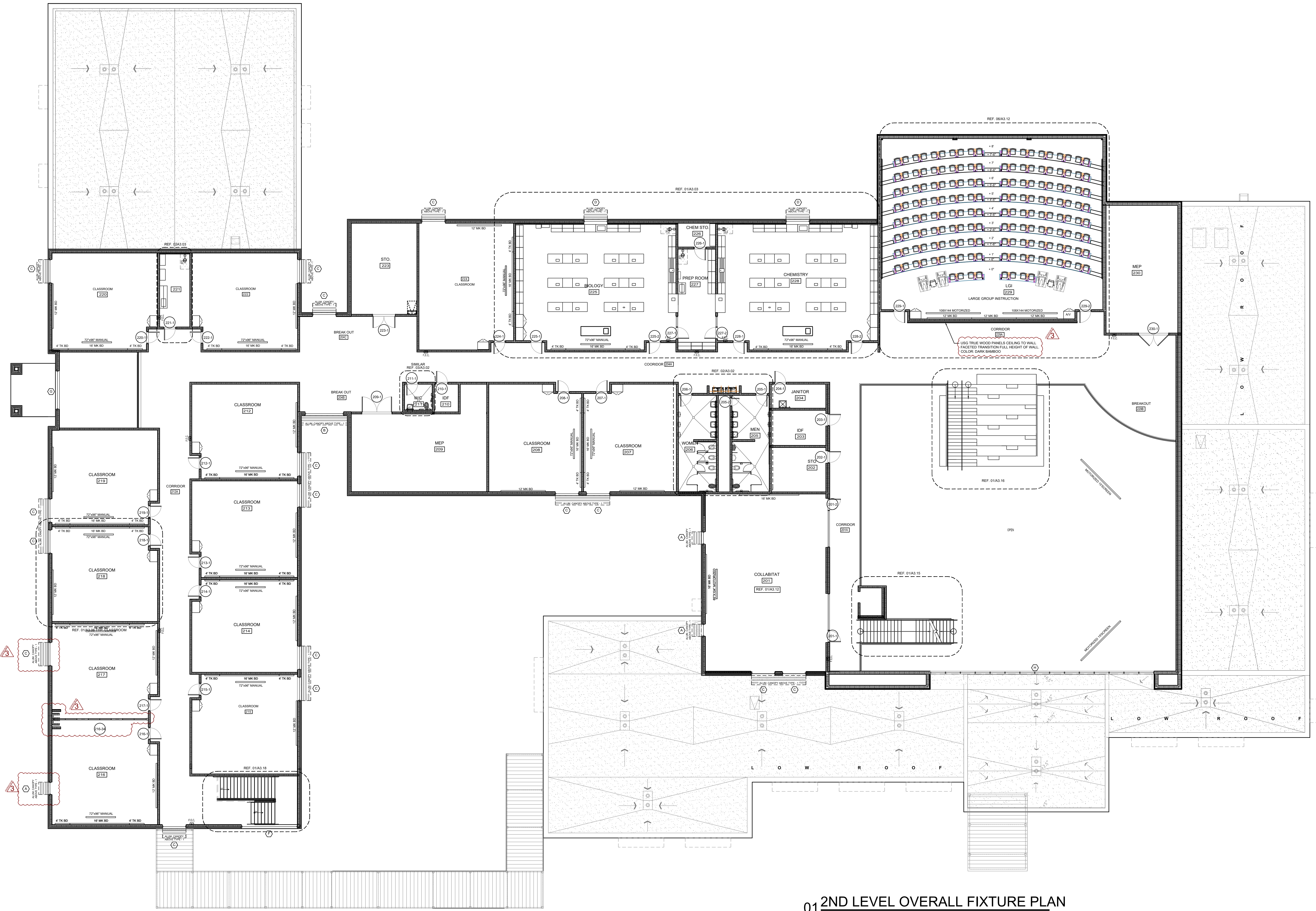


- GENERAL NOTES:**
- REF SHEET A3.01 FOR DOOR / WINDOW SCHEDULE & ELEVATIONS
 - REF SHEET A3.03 A3.05 FOR TYPICAL SCIENCE & PREP ROOM ENLARGEMENTS WITH SCHEDULED FIXTURES AND CASEWORK.
 - REF SHEET A3.06 FOR TYPICAL TEACHER CABINET PROVIDE AS SHOWN IN EVERY INSTRUCTIONAL CLASSROOM.
 - PROVIDE FOR TWO (2) FIRE EXTINGUISHERS AND CABINETS IN ADDITION TO THOSE SHOWN ON THIS PLAN - TO BE LOCATED AS PER ARCHITECT'S OFFICE
 - PROVIDE FIRE EXTINGUISHER IN MECHANICAL ROOMS WITH REQ. MOUNTING BRACKET
 - GENERAL CONTRACTOR TO CONTACT ARCHITECTS OFFICE IF ANY FLOOR TILE DESIGN IS SINGLE-REGARDING SIZE, COLOR, OR LOCATION
 - PROVIDE TRANSITION STRIPS AT ALL DISSIMILAR FLOOR CONDITIONS
 - EACH CLASSROOM TO BE EQUIPPED WITH THE FOLLOWING:
ONE (1) TEACHERS CABINET
ONE (1) COMBO 16" MARKER BOARD W/ 4" TACK BOARD AND 12" HIGH TACK STRIP
ONE (1) 12" MARKER BOARD
 - PROVIDE MANUAL ROLLER SHADES AT ALL EXTERIOR WINDOWS THROUGH OUT
 - PROVIDE MANUAL ROLLER SHADES AT ALL INTERIOR WINDOWS AND SIDELIGHTS
 - PROVIDE MOTORIZED ROLLER SHADES AT EXTERIOR WINDOWS AS INDICATED ON PLANS
 - SOCKET AND CAP FOR REMOVABLE FLOOR MOUNT STANCHION BARRIER; PROVIDE REMOVABLE FLOOR MOUNT SINGLE LINE RETRACTABLE BELT BARRIER W/ 10" BELT. MUST MEET OR EXCEED SKU COW-02-015-0204S CROWD CONTROL WAREHOUSE

**UTRGV/ EDINBURG CISD
COLLEGIATE HIGH SCHOOL**



FOR CONSTRUCTION
Date: September 9, 2022
Scale: As Noted
Project Architect: David Monreal, AIA
Drawn By: JA, CM, CG
Job No.: UTRGV/ECISD
Sheet:



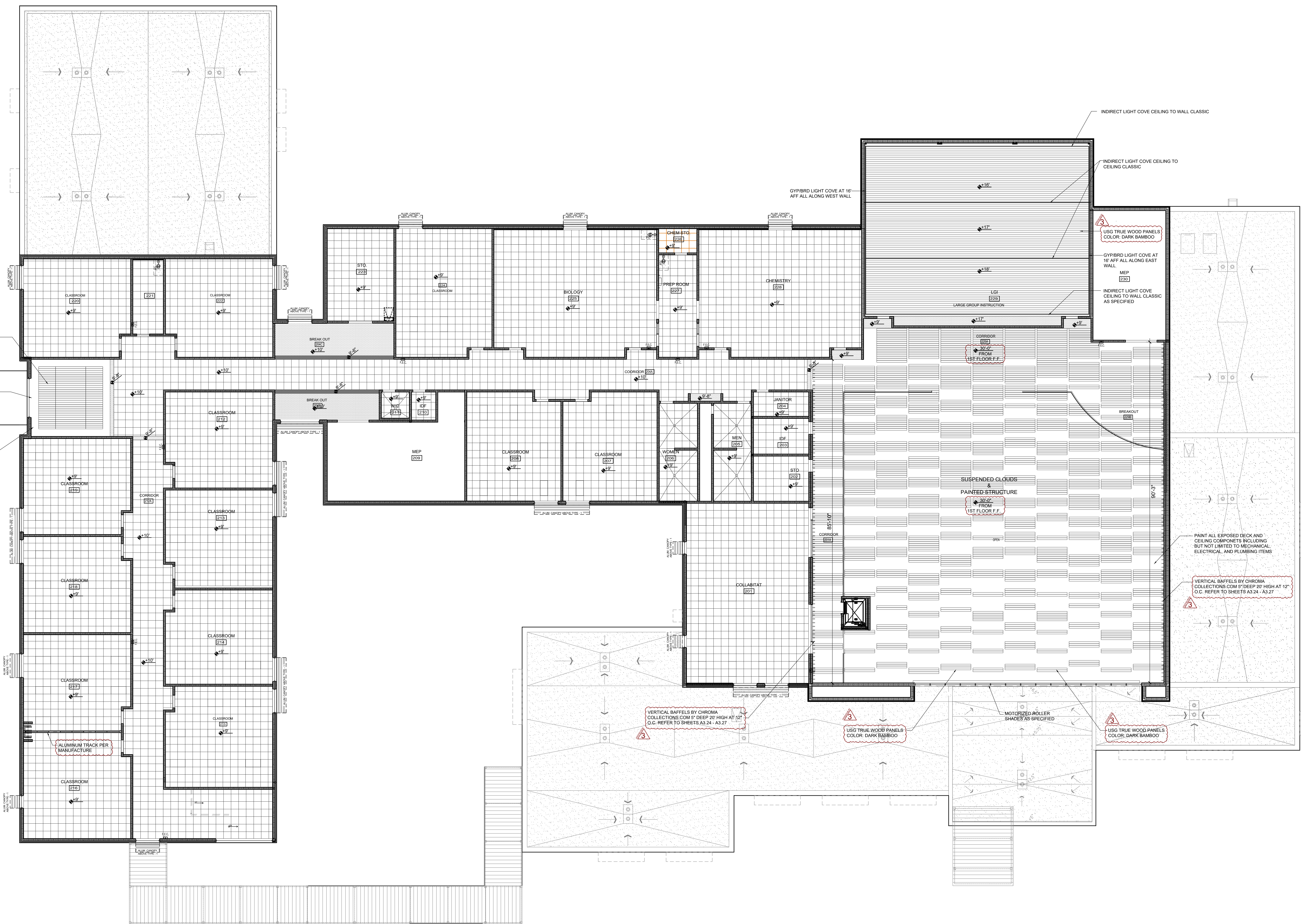
01 2ND LEVEL OVERALL FIXTURE PLAN
 SCALE : 3/32"=1'-0"

- DOOR KEY LEGEND**
- 100 12
 ROOM # DOOR NO.
 REF A3.01
- WINDOW KEY LEGEND**
- C WINDOW TYPE
 REF A3.01
- GENERAL NOTES:**
- 1) REF SHEET A3.01 FOR DOOR / WINDOW SCHEDULE & ELEVATIONS
 - 2) REF SHEET A3.01A A3.05 FOR TYPICAL SCIENCE & PREP ROOM ENLARGEMENTS WITH SCHEDULED FIXTURES AND CASEWORK
 - 3) REF SHEET A3.08 FOR TYPICAL TEACHER CABINET PROVIDE AS SHOWN IN EVERY INSTRUCTIONAL CLASSROOM.
 - 4) CD PROVIDE FOR TWO (2) FIRE EXTINGUISHERS AND CABINETS IN ADDITION TO THOSE SHOWN ON THIS PLAN - TO BE LOCATED AS PER ARCHITECT'S OFFICE.
 - 5) PROVIDE FIRE EXTINGUISHER IN MECHANICAL ROOMS WITH REQ. MOUNTING BRACKET
 - 6) GENERAL CONTRACTOR TO CONTACT ARCHITECTS OFFICE IF ANY FLOOR TILE DESIGN IS UNCLEAR REGARDING SIZE, COLOR, OR LOCATION.
 - 7) PROVIDE TRANSITION STRIPS AT ALL DISSIMILAR FLOOR CONDITIONS
 - 8) EACH CLASSROOM TO BE EQUIPPED WITH THE FOLLOWING:
 ONE (1) TEACHERS CABINET
 ONE (1) COMBO 16" MARKER BOARD W/ 4" TACK BOARD AND 12" HIGH TACK STRIP
 ONE (1) 12" MARKER BOARD.
 - 9) PROVIDE MANUAL ROLLER SHADES AT ALL EXTERIOR WINDOWS THROUGH OUT
 - 10) PROVIDE MANUAL ROLLER SHADES AT ALL EXTERIOR WINDOWS AND SIDELIGHTS
 - 11) PROVIDE MOTORIZED ROLLER SHADES AT EXTERIOR WINDOWS AS INDICATED ON PLANS
 - 12) SOCKET AND CAP FOR REMOVABLE FLOOR MOUNT STANCHION BARRIER. PROVIDE REMOVABLE FLOOR MOUNT SINGLE LINE RETRACTABLE BELT BARRIER W/ 10" BELT. MUST MEET OR EXCEED SKU CCW-02-015-02245 CROWD CONTROL WAREHOUSE

**UTRGV/ EDINBURG CISD
 COLLEGIATE HIGH SCHOOL**



Date: September 9, 2022
 Scale: As Noted
 Project Architect: David Monreal, AIA
 Drawn By: JA, CM, CG
 Job No: UTRGV/ECISD
 Sheet:



3 USE TRUE WOOD PANELS COLOR: DARK BAMBOO

MOTORIZED ROLLER SHADES AS SPECIFIED

PAINT ALL EXPOSED DECK AND CEILING COMPONENTS INCLUDING BUT NOT LIMITED TO MECHANICAL, ELECTRICAL, AND PLUMBING ITEMS

ALUMINUM TRACK PER MANUFACTURE

3 VERTICAL BAFFLES BY CHROMA COLLECTIONS COM 5" DEEP 20" HIGH AT 12" O.C. REFER TO SHEETS A3.24 - A3.27

3 USE TRUE WOOD PANELS COLOR: DARK BAMBOO

3 USE TRUE WOOD PANELS COLOR: DARK BAMBOO

PAINT ALL EXPOSED DECK AND CEILING COMPONENTS INCLUDING BUT NOT LIMITED TO MECHANICAL, ELECTRICAL, AND PLUMBING ITEMS

3 VERTICAL BAFFLES BY CHROMA COLLECTIONS COM 5" DEEP 20" HIGH AT 12" O.C. REFER TO SHEETS A3.24 - A3.27

2ND LEVEL REFLECTED CEILING PLAN
 01 SCALE: 3/32"=1'-0"
 NOTE: PROVIDE FOR MANUAL ROLLER SHADES AT ALL EXTERIOR WINDOWS

RCP LEGEND

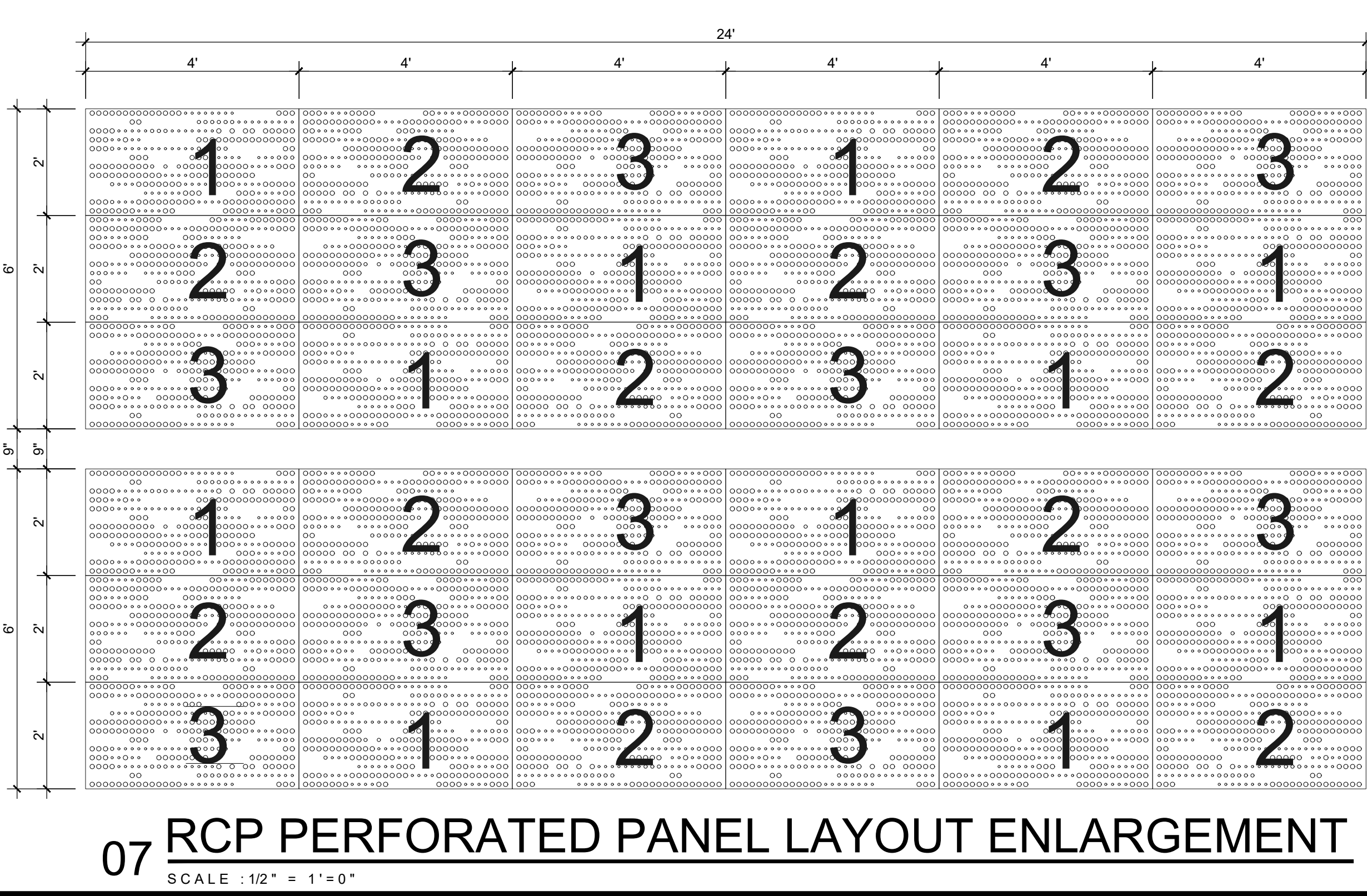
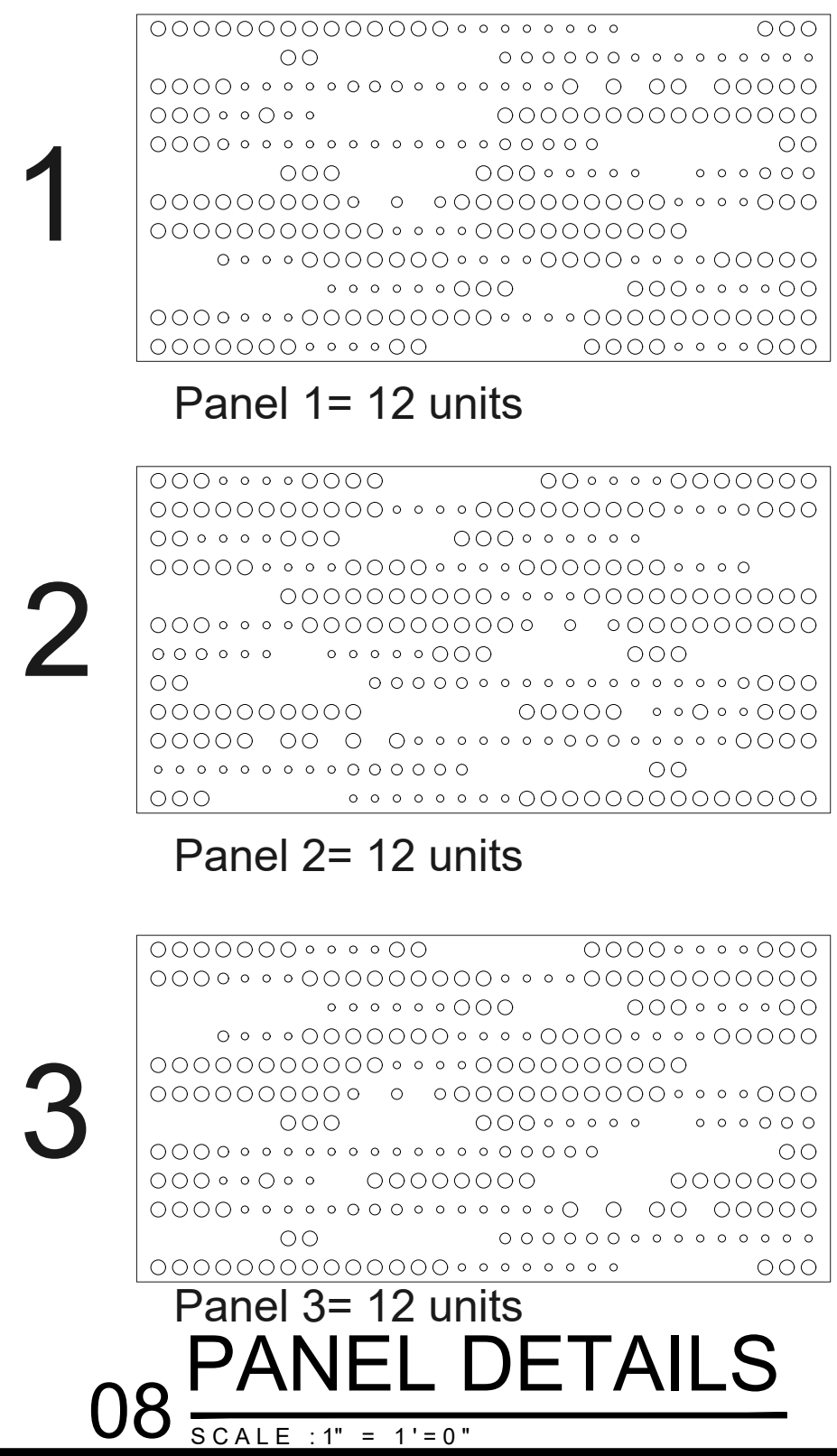
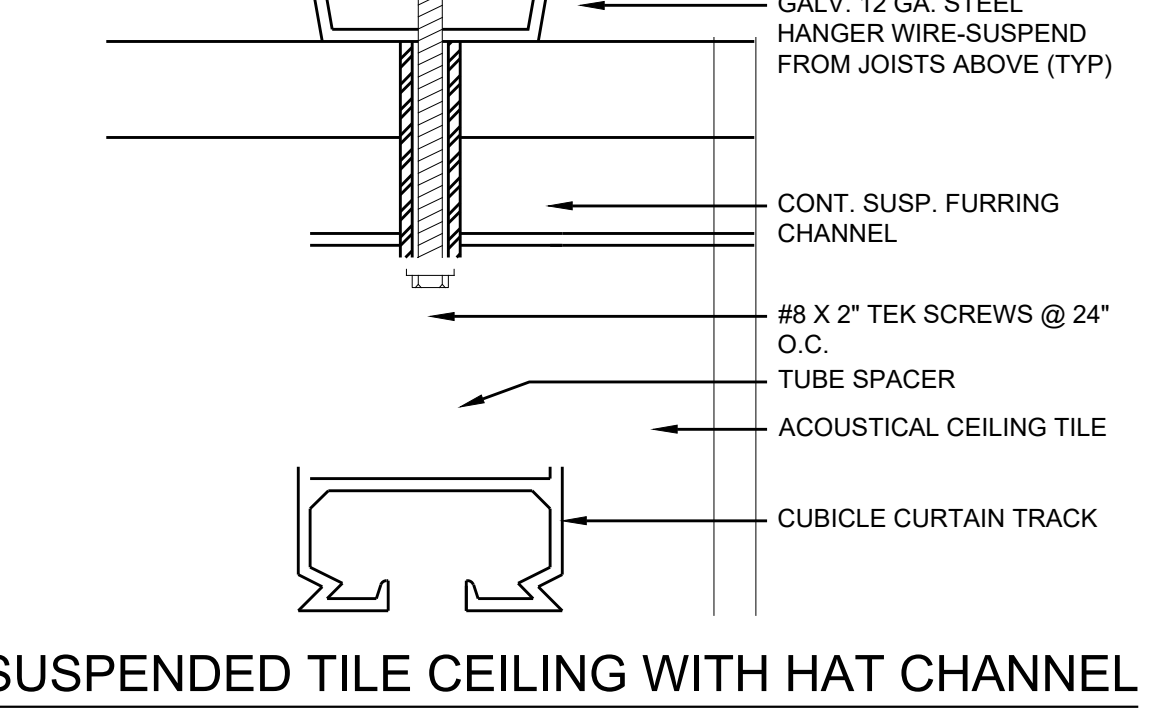
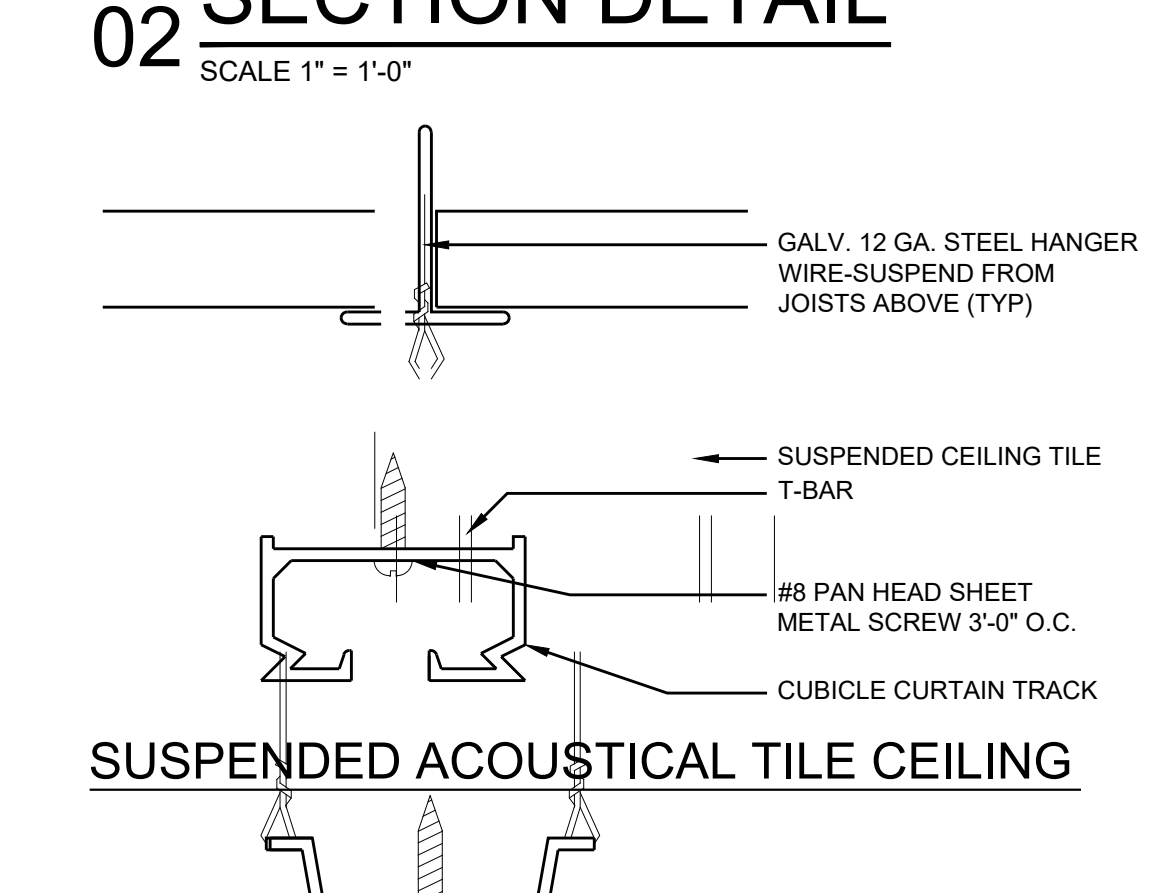
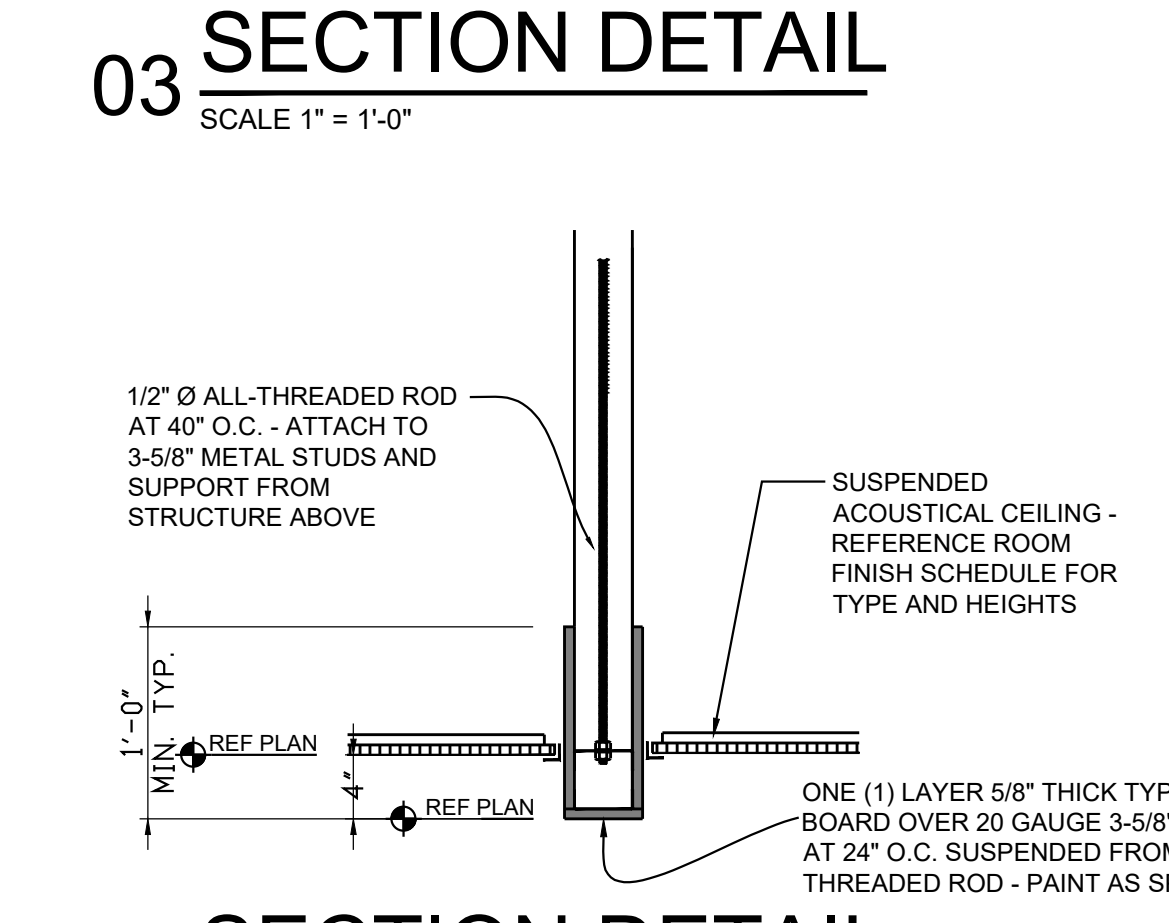
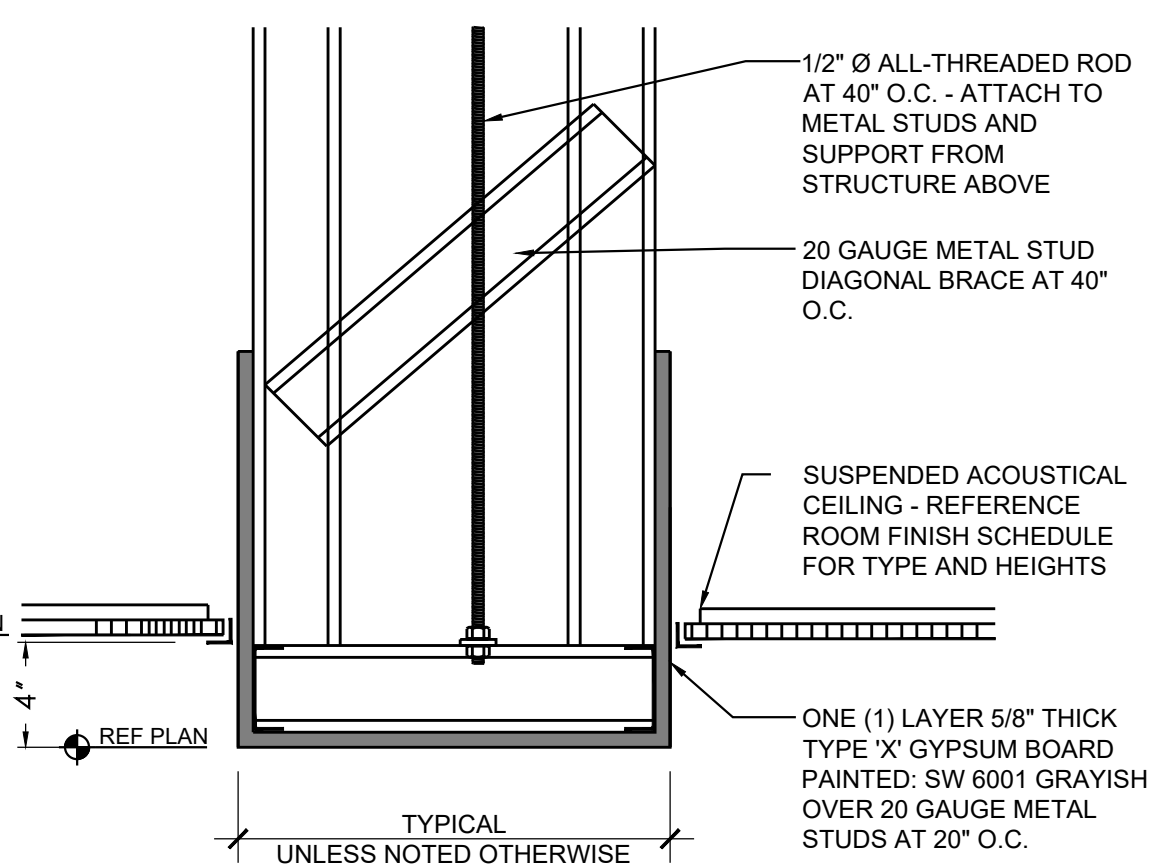
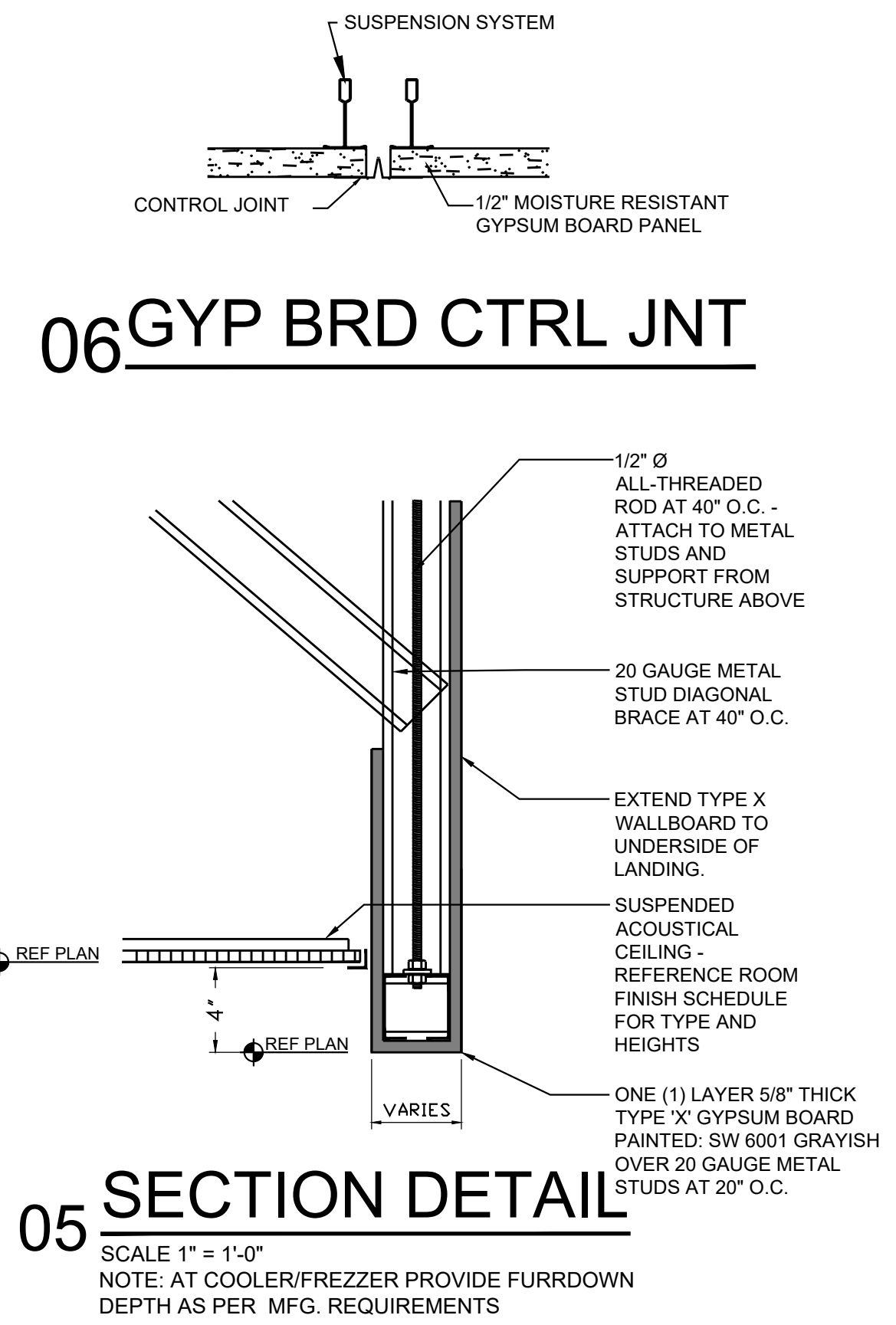
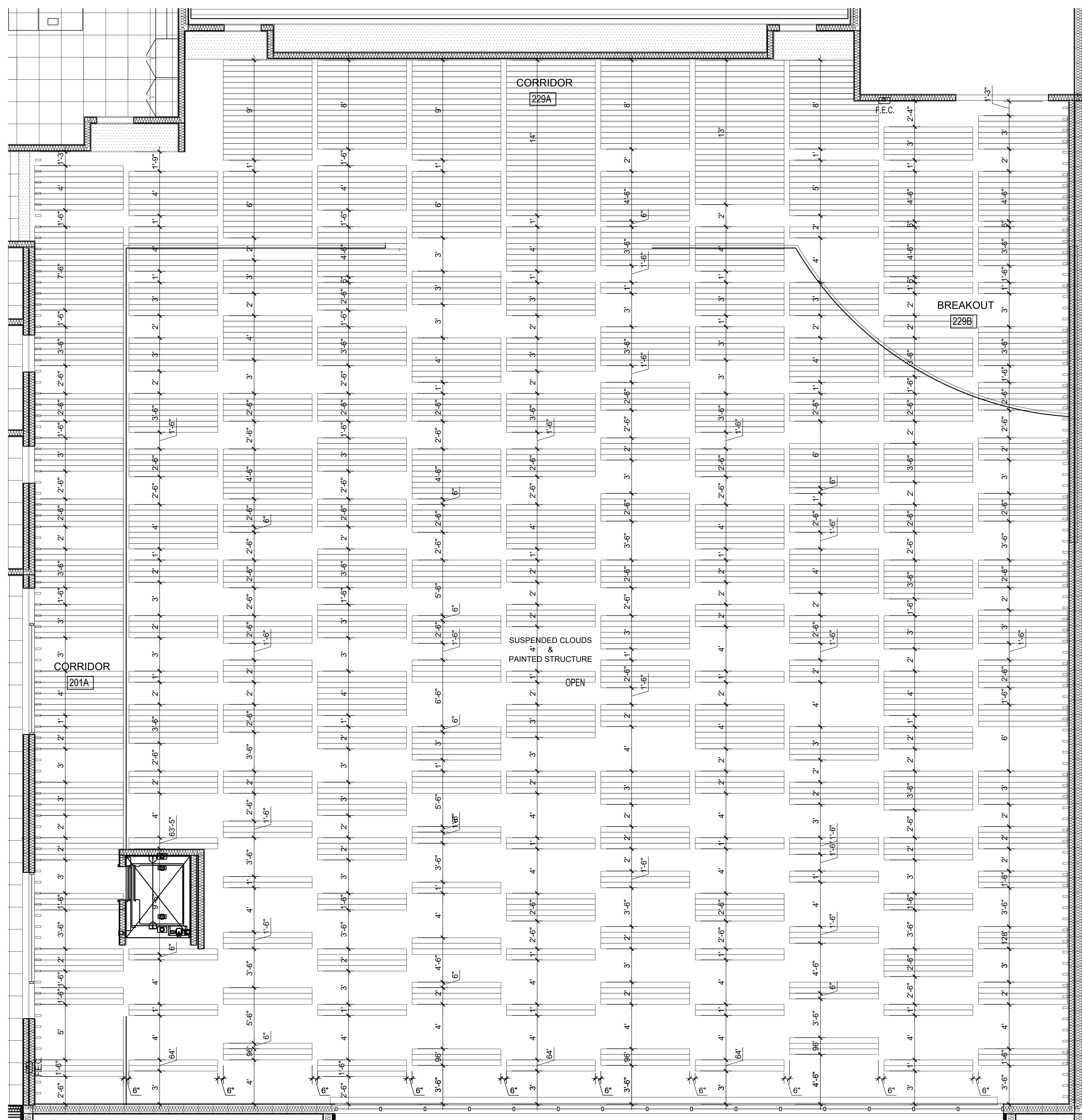
- [Hatched Pattern] USG PARALINE BAFFLES LINEAR CEILING SYSTEM
- [Hatched Pattern] ARCHITECTURAL WOVEN WIRE PANELS
- [Hatched Pattern] USG CELEBRATION TORSION SPRING SYSTEM 2X4 SYSTEM WITH CUSTOM PERFORATED PANELS IN SILVER BATHROOM
- [Hatched Pattern] USG TRUE WOOD PANELS COLOR: DARK BAMBOO
- [Hatched Pattern] SAC LULU.V. TYPICAL SUSPENDED ACOUSTICAL CEILING
- [Hatched Pattern] METAL COMPOSITE PANEL SOFFIT
- [Hatched Pattern] PAINTED GYP BRD CEILING OVER SUSPENSION SYSTEM FRAMING

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COLLEGIATE HIGH SCHOOL



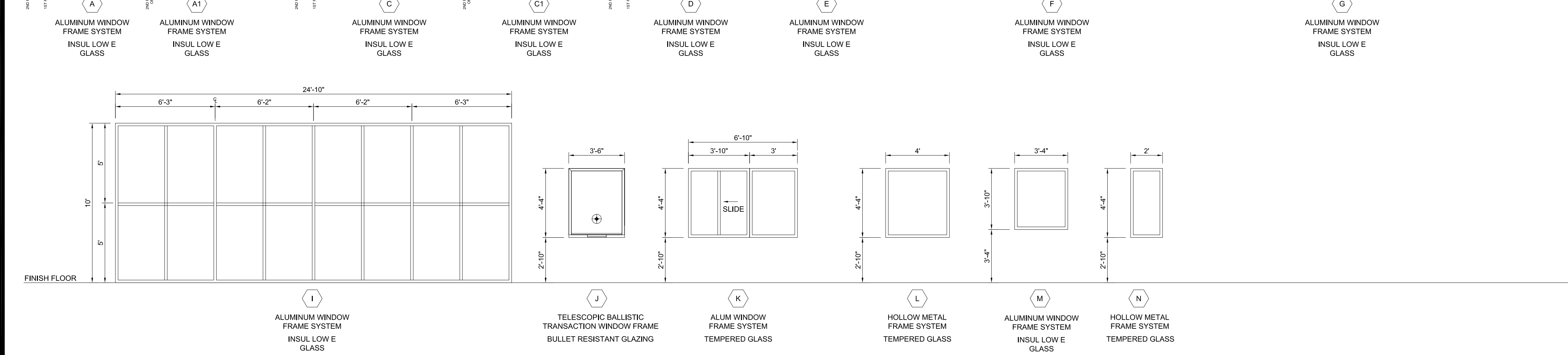
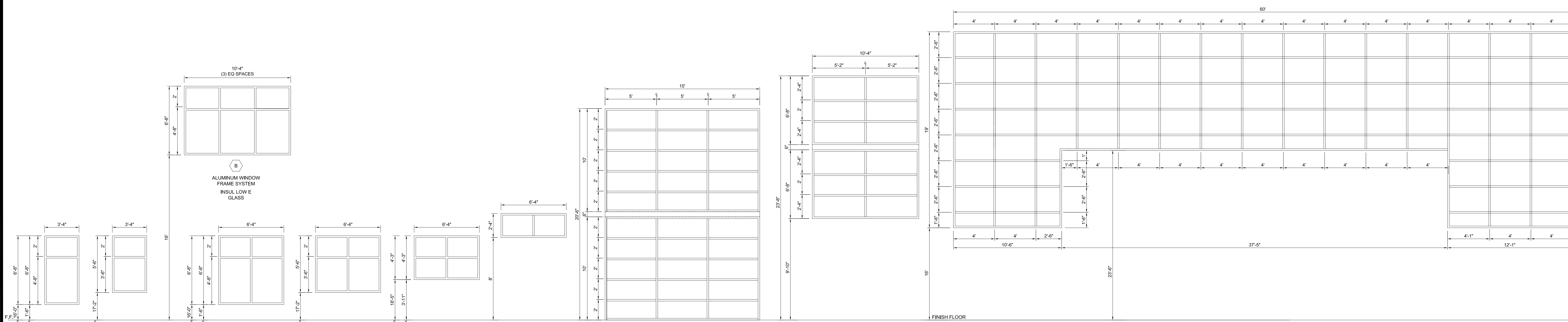
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 Sheet:

A2.10



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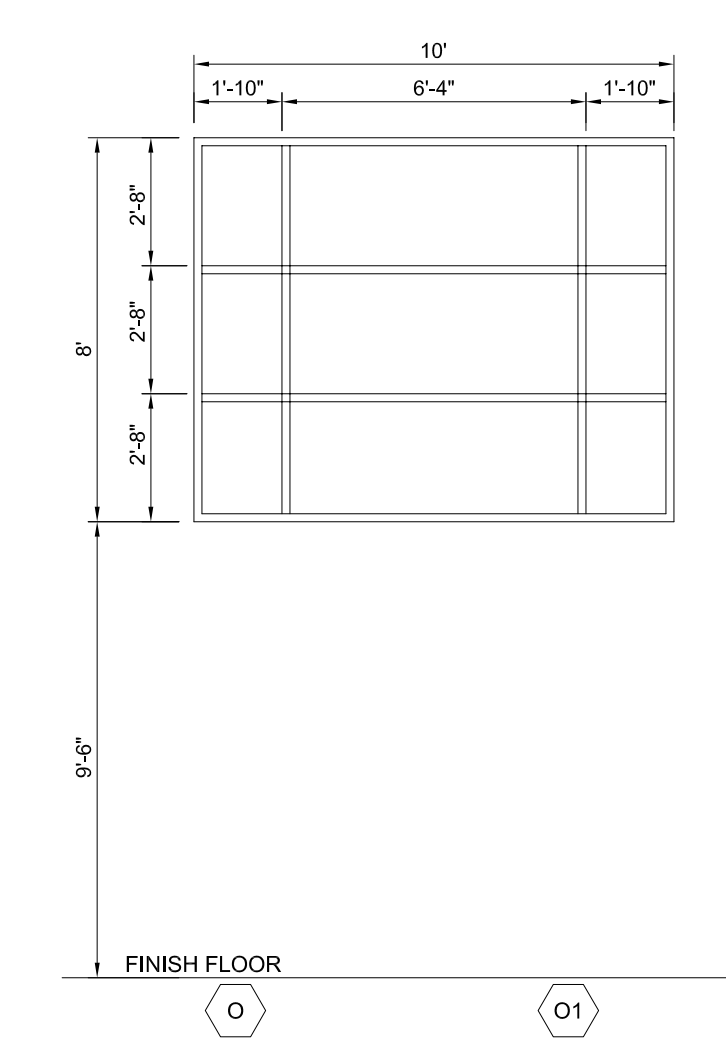
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WINDOW ELEVATIONS

SCALE 1/4" = 1'-0"
 NOTE: 1.) ALL EXTERIOR WINDOW FRAMES AND GLAZING TO MEET STRUCTURAL WIND LOAD PRESSURES.

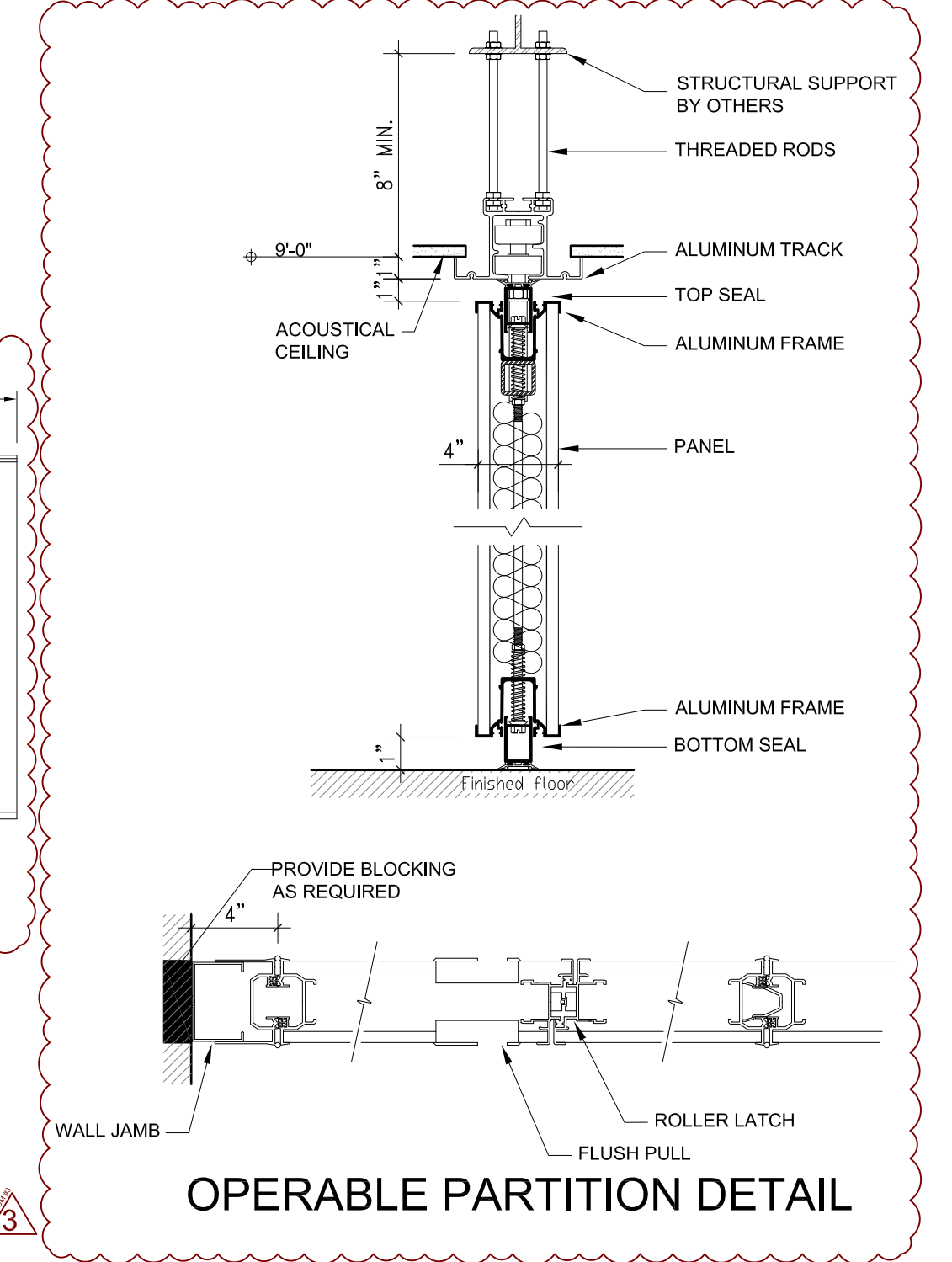
| W/DW NO. | MATL | SIZE | ELEVATION | | GLASS | DETAIL | | | REMARKS | |
|----------|------|---------|-----------|-----------------|-----------------|------------------|----------|----------|----------|---|
| | | | HEAD | SILL | | JAMB | HEAD | SILL | | |
| A | ALUM | 3'-4" | 6'-8" | 8'-2 1/2"-8" | 1'-6 1/16"-0" | LOW-E INSUL | 02/A3.14 | 01/A3.14 | 03/A3.14 | |
| A1 | ALUM | 3'-4" | 5'-6" | 22'-8" | 17'-2" | LOW-E INSUL | 02/A3.14 | 01/A3.14 | 03/A3.14 | |
| B | ALUM | 9'-5" | 6'-8" | 16'-0" | 1'-6 1/16"-0" | LOW-E INSUL | 02/A3.14 | 01/A3.14 | 04/A3.14 | |
| C | ALUM | 6'-4" | 6'-8" | 8'-2 1/2"-8" | 1'-6 1/16"-0" | LOW-E INSUL | 02/A3.14 | 01/A3.14 | 04/A3.14 | |
| C1 | ALUM | 6'-4" | 5'-6" | 22'-8" | 17'-2" | LOW-E INSUL | 02/A3.14 | 01/A3.14 | 04/A3.14 | |
| D | ALUM | 6'-4" | 4'-3" | 8'-2 1/2"-8" | 3'-11 1/16"-5" | LOW-E INSUL | 02/A3.14 | 01/A3.14 | 04/A3.14 | |
| E | ALUM | 6'-4" | 2'-4" | 10'-4" | 8'-0" | LOW-E INSUL | 02/A3.14 | 01/A3.14 | 04/A3.14 | |
| F | ALUM | 15'-0" | 10'-0" | 10'-0"-0" | F.F./10'-4" | LOW-E INSUL | 02/A3.14 | 01/A3.14 | 04/A3.14 | |
| G | ALUM | 10'-4" | 6'-8" | 16'-4 23/64"-6" | 9'-10 17/17"-0" | LOW-E INSUL | 02/A3.14 | 01/A3.14 | 04/A3.14 | |
| H | | | | | | | | | | KALWALL SYSTEM |
| I | ALUM | 24'-10" | 10'-0" | 10'-0" | F.F. | LOW-E INSUL | 02/A3.14 | 01/A3.14 | 04/A3.14 | |
| J | H.M. | 3'-6" | 4'-4" | 7'-2" | 2'-10" | BULLET RESISTANT | | | | TELESCOPIC BALLISTIC (LEVEL 3) TRANSACTION WINDOW W/ SPKR |
| K | H.M. | 6'-10" | 4'-4" | 7'-2" | 2'-10" | TEMPERED | | | | SLIDING WINDOW |
| L | H.M. | 4'-0" | 4'-4" | 7'-2" | 2'-10" | TEMPERED | | | | |
| M | ALUM | 3'-4" | 3'-10" | 7'-2" | 3'-4" | LOW-E INSUL | 02/A3.14 | 01/A3.14 | 04/A3.14 | |
| N | ALUM | 2'-0" | 4'-4" | 7'-2" | 3'-2" | TEMPERED | 02/A3.14 | 01/A3.14 | 04/A3.14 | |
| O | ALUM | 10'-0" | 8'-0" | 17'-6" | 9'-6" | LOW-E INSUL | | | | LAMINATED GLAZING EXTERIOR DOOR FRAME SYSTEM |
| O1 | ALUM | 10'-0" | 8'-0" | 17'-6" | 9'-6" | | | | | |



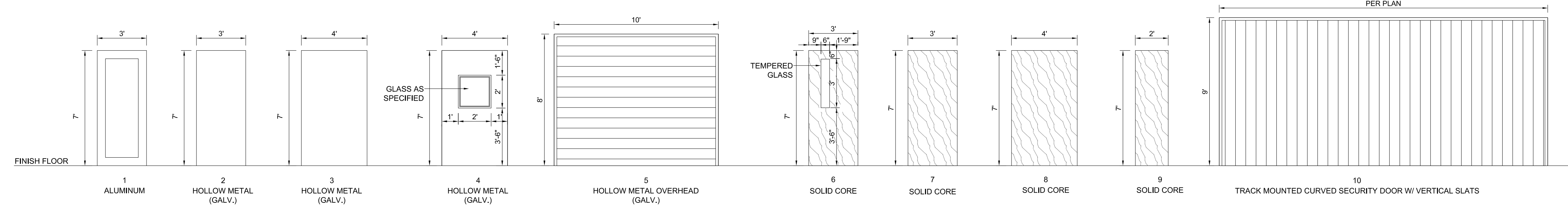
ALUMINUM WINDOW FRAME SYSTEM INSUL LOW E GLASS



ALUMINUM EXTERIOR DOOR FRAME SYSTEM LAMINATED GLAZING

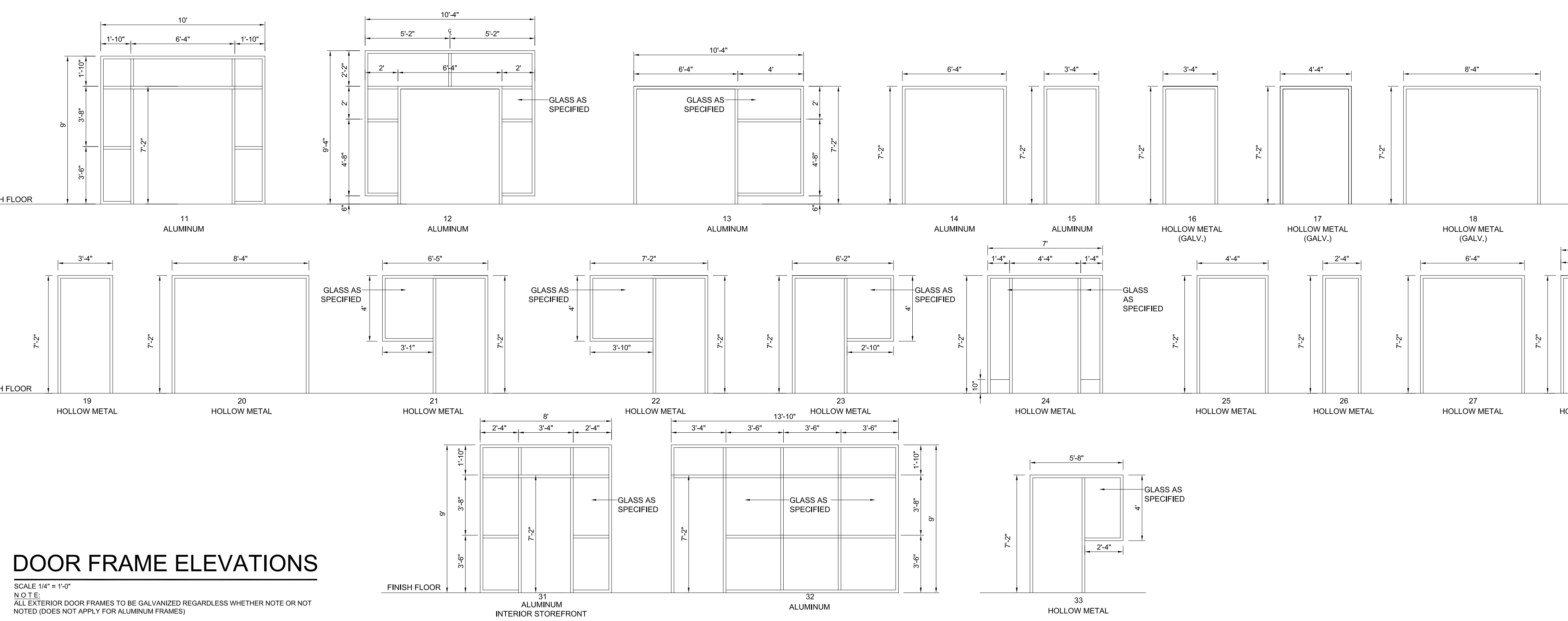


OPERABLE PARTITION DETAIL



DOOR ELEVATIONS

SCALE 1/4" = 1'-0"
 NOTE: 1. ALL EXTERIOR DOORS TO BE NOT DIPPED GALVANIZED REGARDLESS WHETHER NOTED OR NOT NOTED (DOES NOT APPLY FOR ALUMINUM DOORS)
 2. ALL EXTERIOR DOORS TO MEET HURRICANE AND HIGH IMPACT RESISTANCE REQUIREMENTS WHETHER NOTED OR NOT NOTED

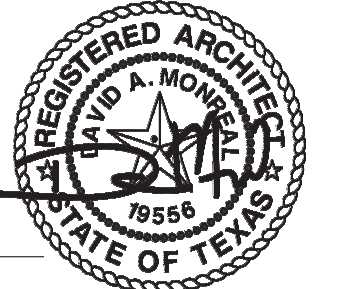


DOOR FRAME ELEVATIONS

SCALE 1/4" = 1'-0"
 NOTE: ALL EXTERIOR DOOR FRAMES TO BE GALVANIZED REGARDLESS WHETHER NOTED OR NOT NOTED (DOES NOT APPLY FOR ALUMINUM FRAMES)

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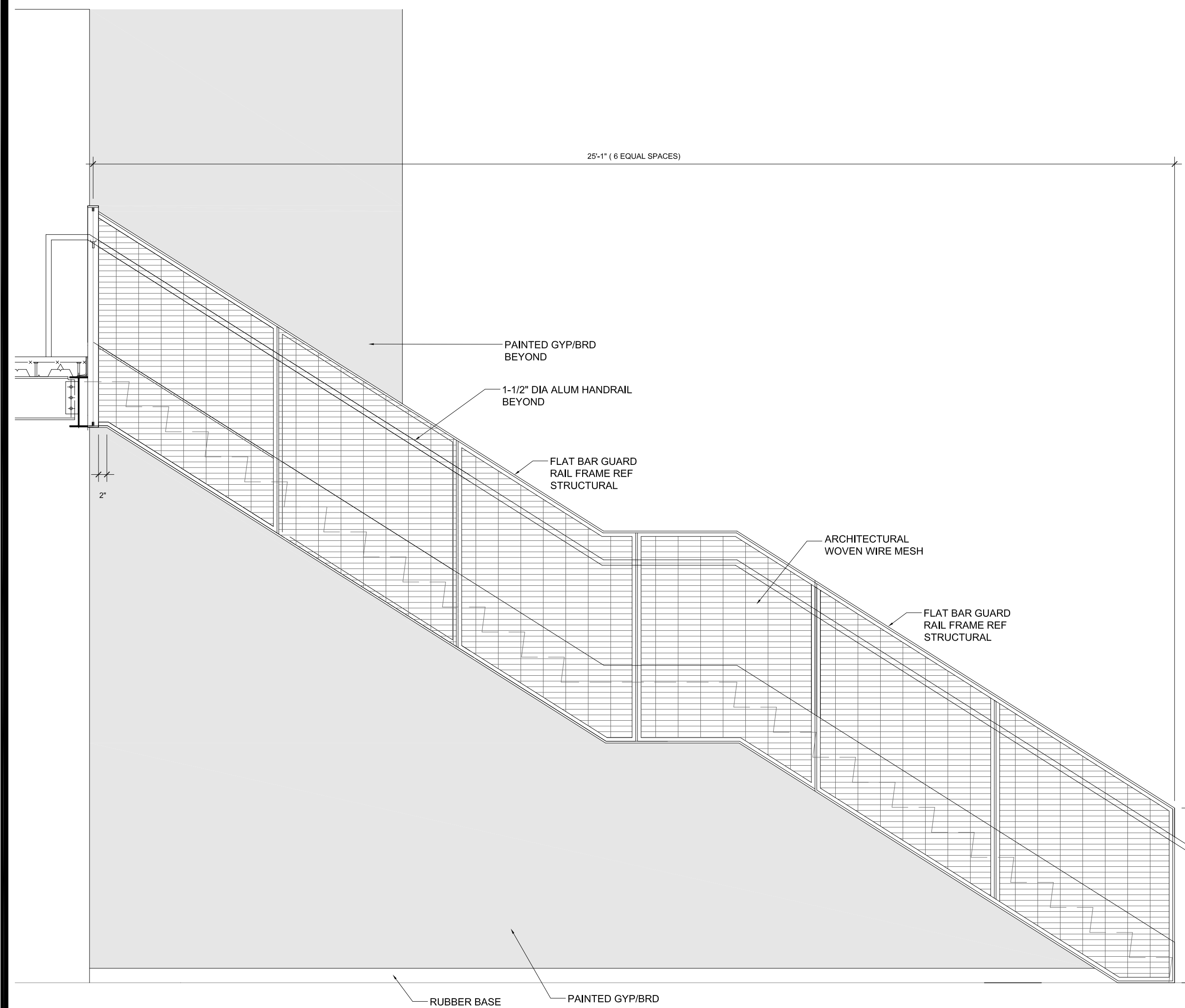
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 Drawn By: JA, CM, CG
 Job No: UTRGV/ECISD
 Sheet: A3.01

PAINT COLOR FOR STAIR ELEMENTS:
STAIR STRINGERS AND GUARDRAILS -
SW7649 SILVERPLATE

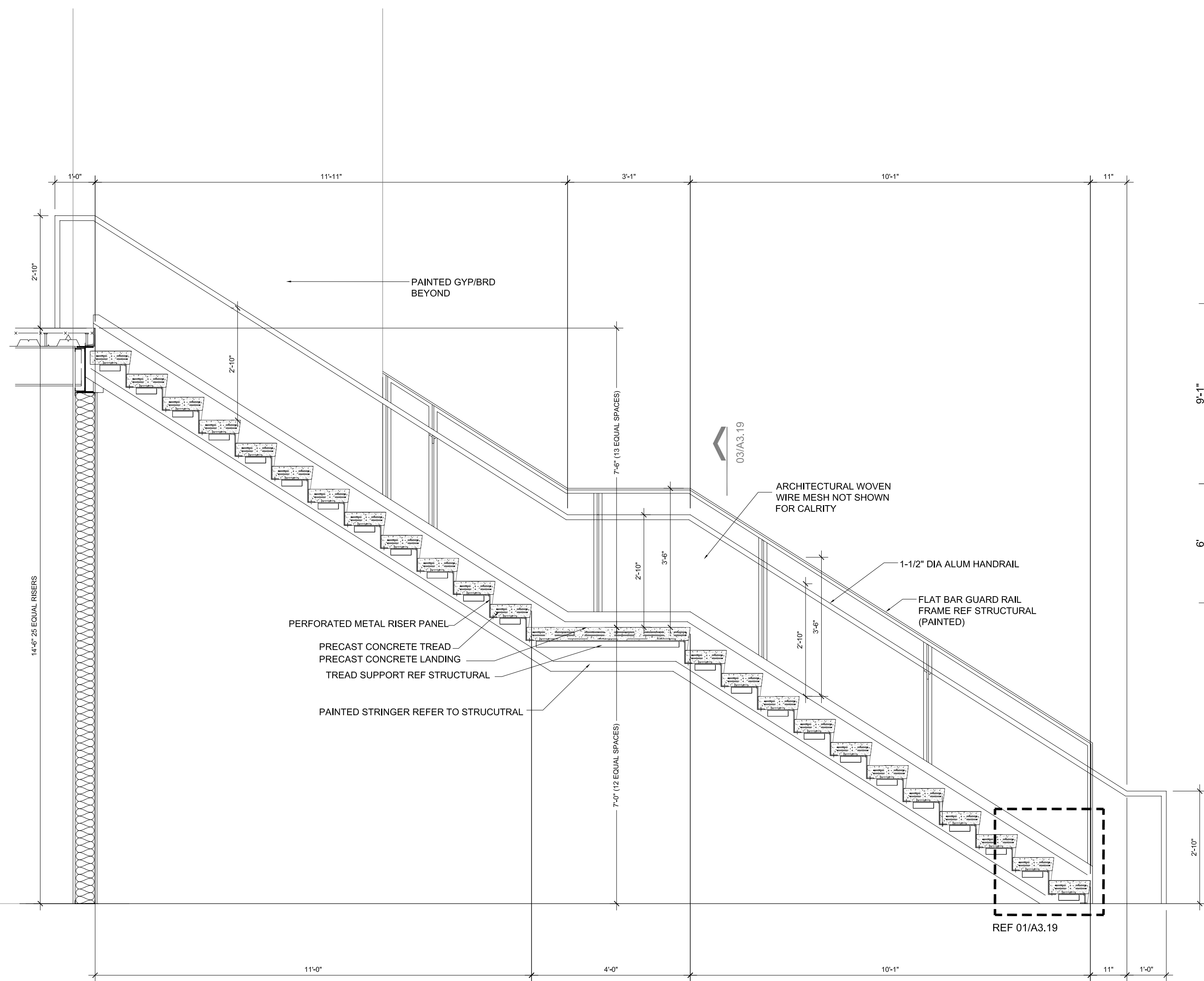
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WAUSAU TILE 800-388-8728
WEBSITE: WWW.WAUSAUTILE.COM
COLOR SELECTION: G33Y MISTY GRAY



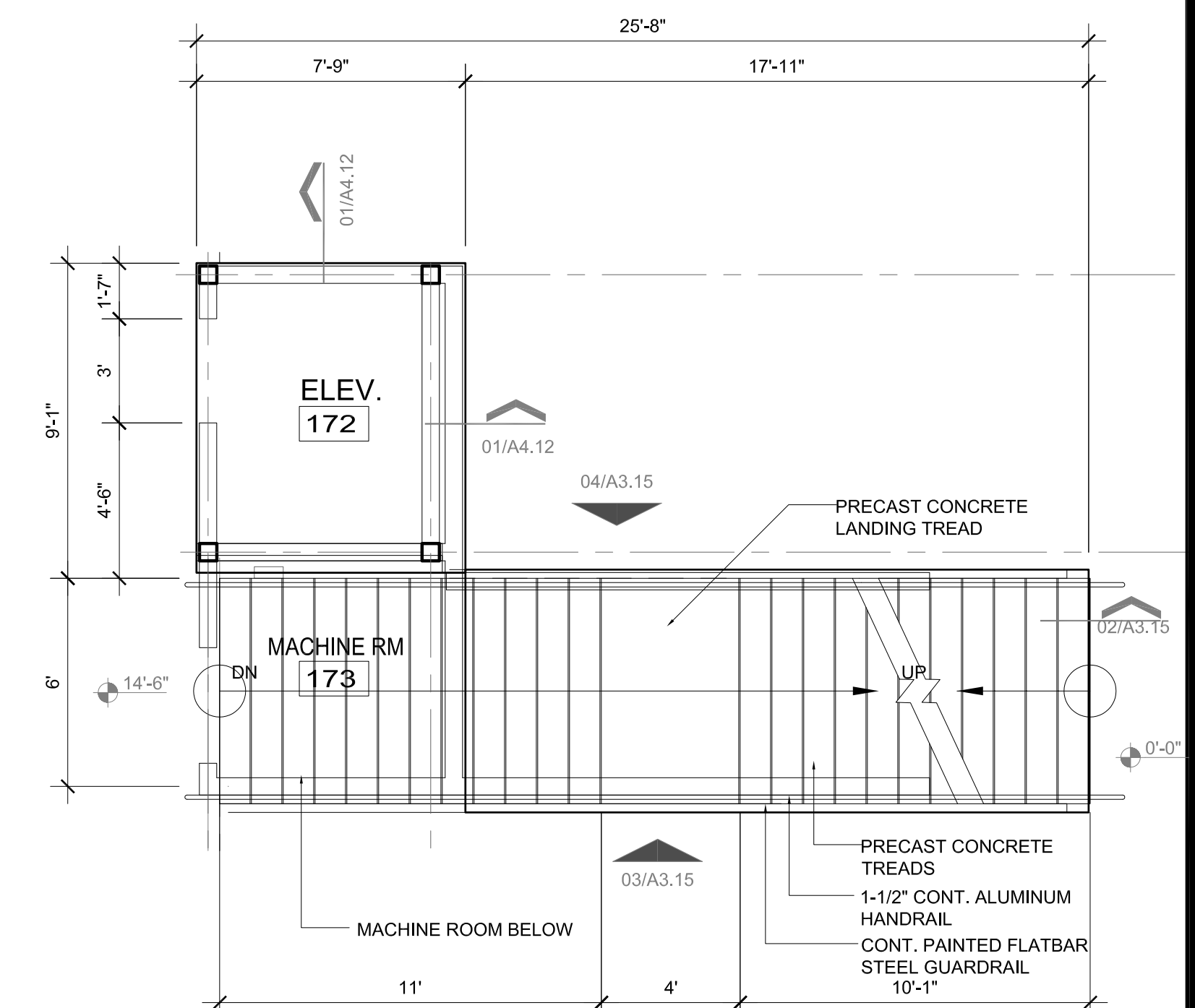
1150 Paredes Line Rd.
Brownsville TX 78526
(361) 546-0110
fax (361) 546-0196



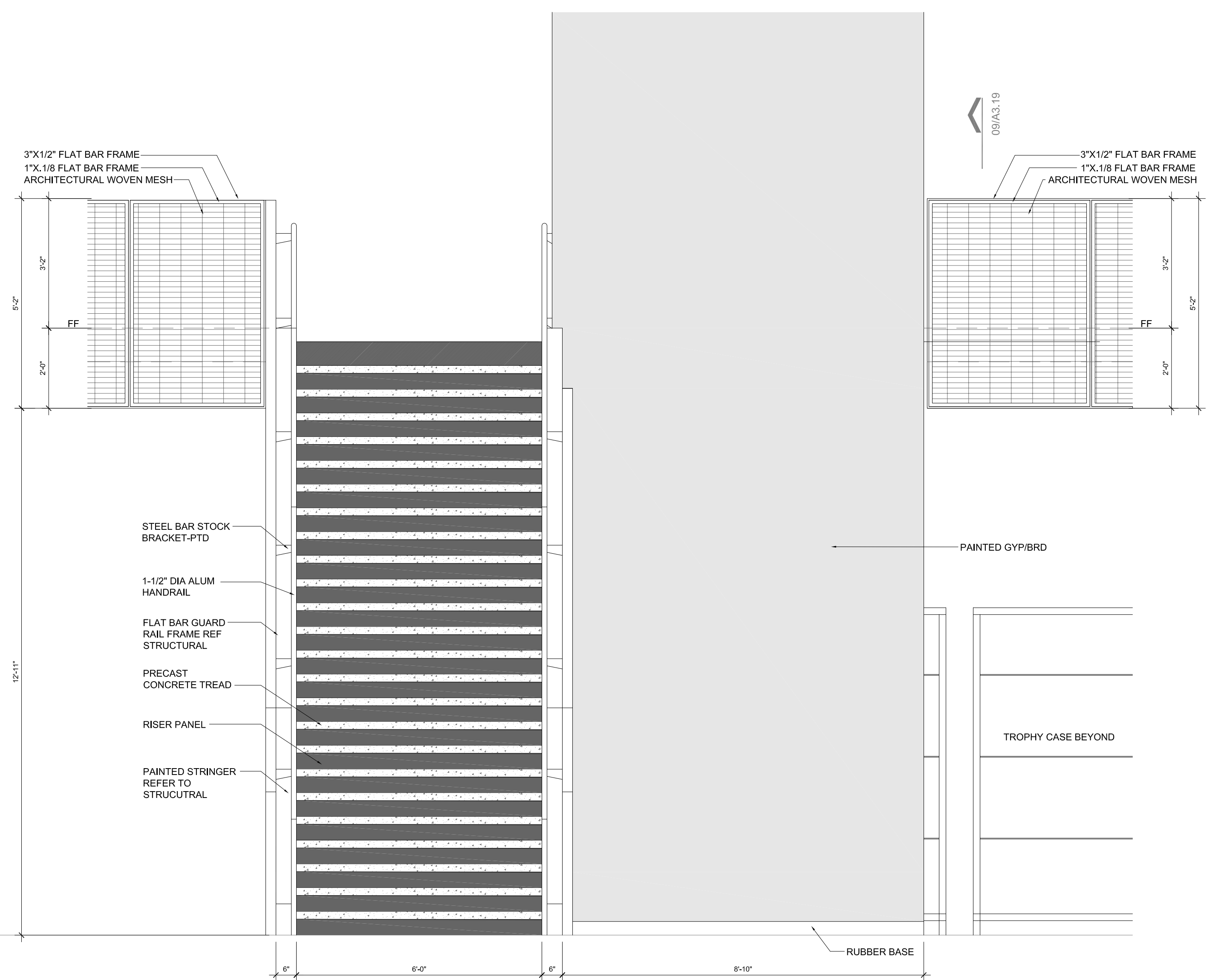
03 STAIR ELEVATION
SCALE 1/2" = 1'-0"



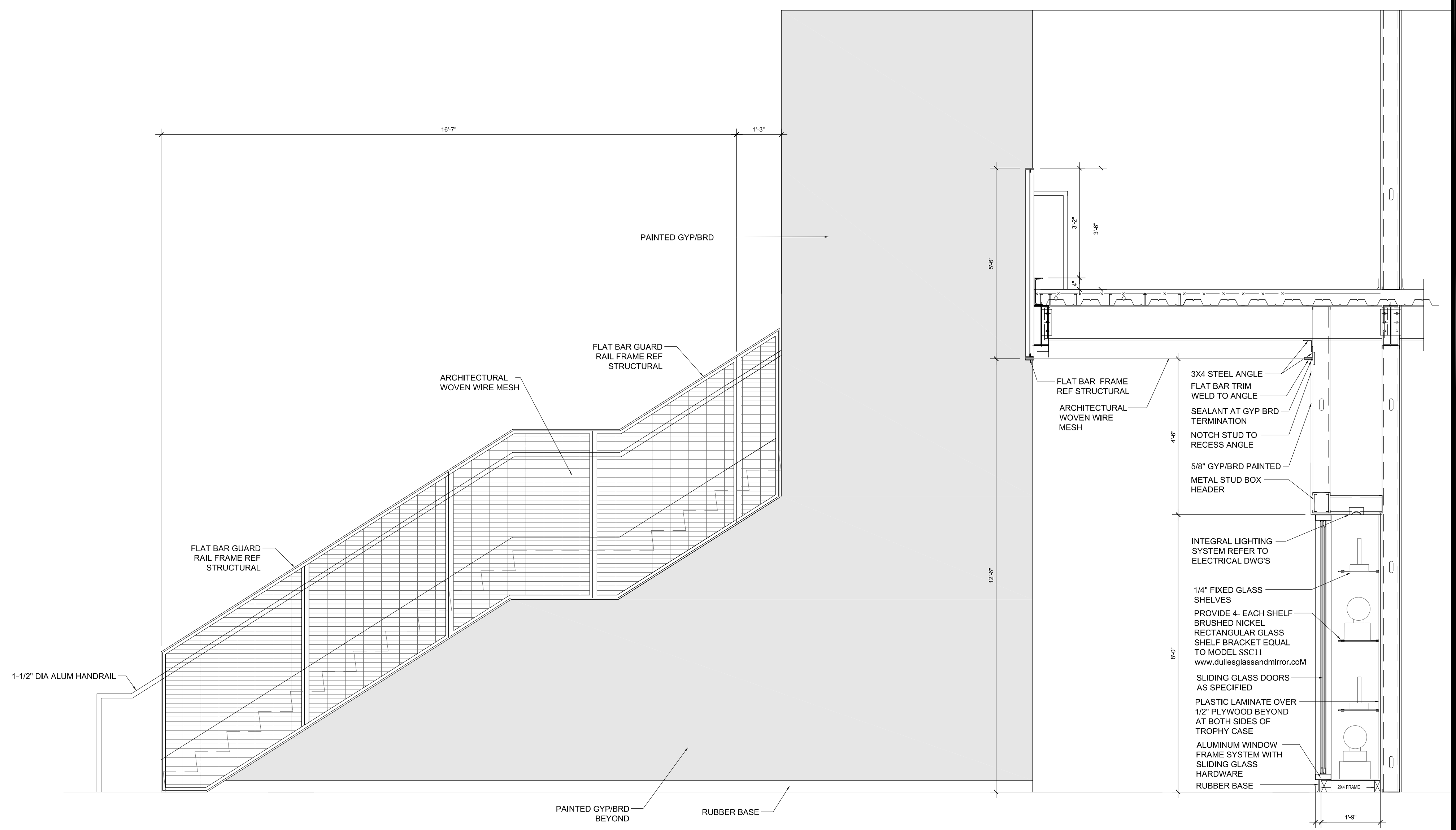
02 STAIR SECTION
SCALE 1/2" = 1'-0"



01 STAIR / ELEVATOR PLAN
SCALE 1/4" = 1'-0"



05 STAIR ELEVATION
SCALE 1/2" = 1'-0"



04 STAIR ELEVATION
SCALE 1/2" = 1'-0"

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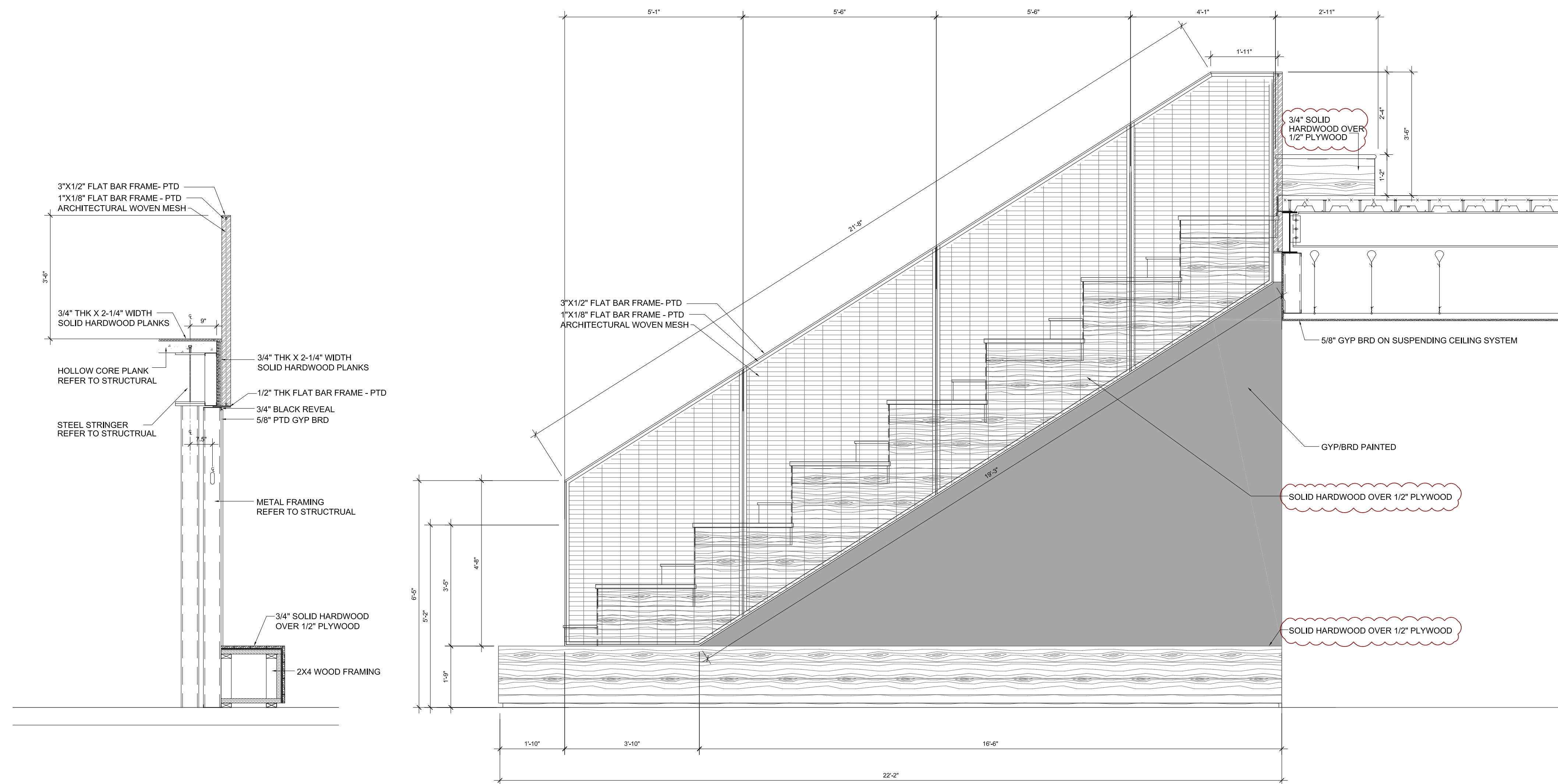
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PAINT COLOR FOR STAIR ELEMENTS:
STAIR STRINGERS AND GUARDRAILS -
SW7649 SILVERPLATE

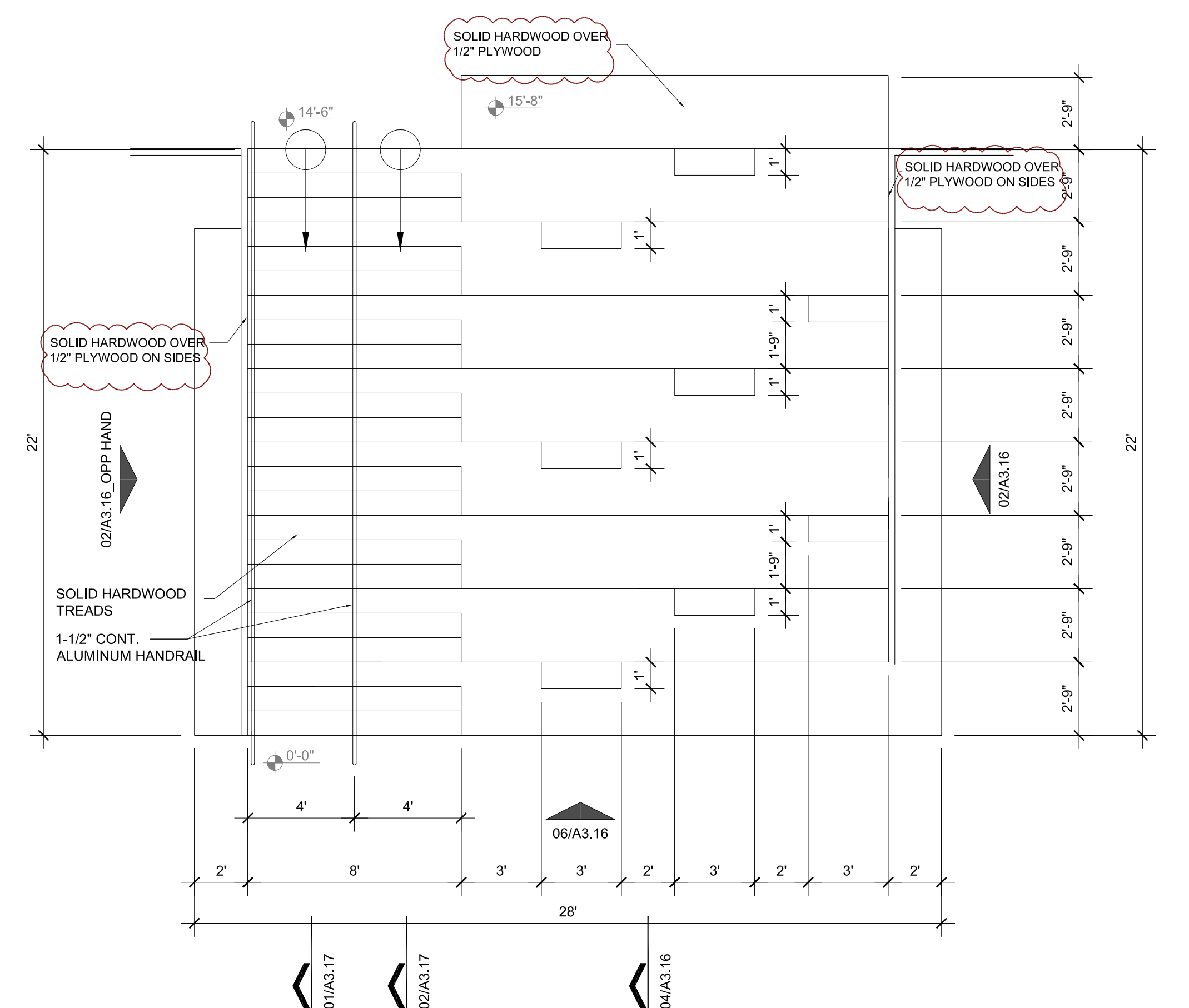
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WEBSITE: WWW.WAUSAUTILE.COM
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|----------|-----------|----|
| 09-30-22 | | CM |

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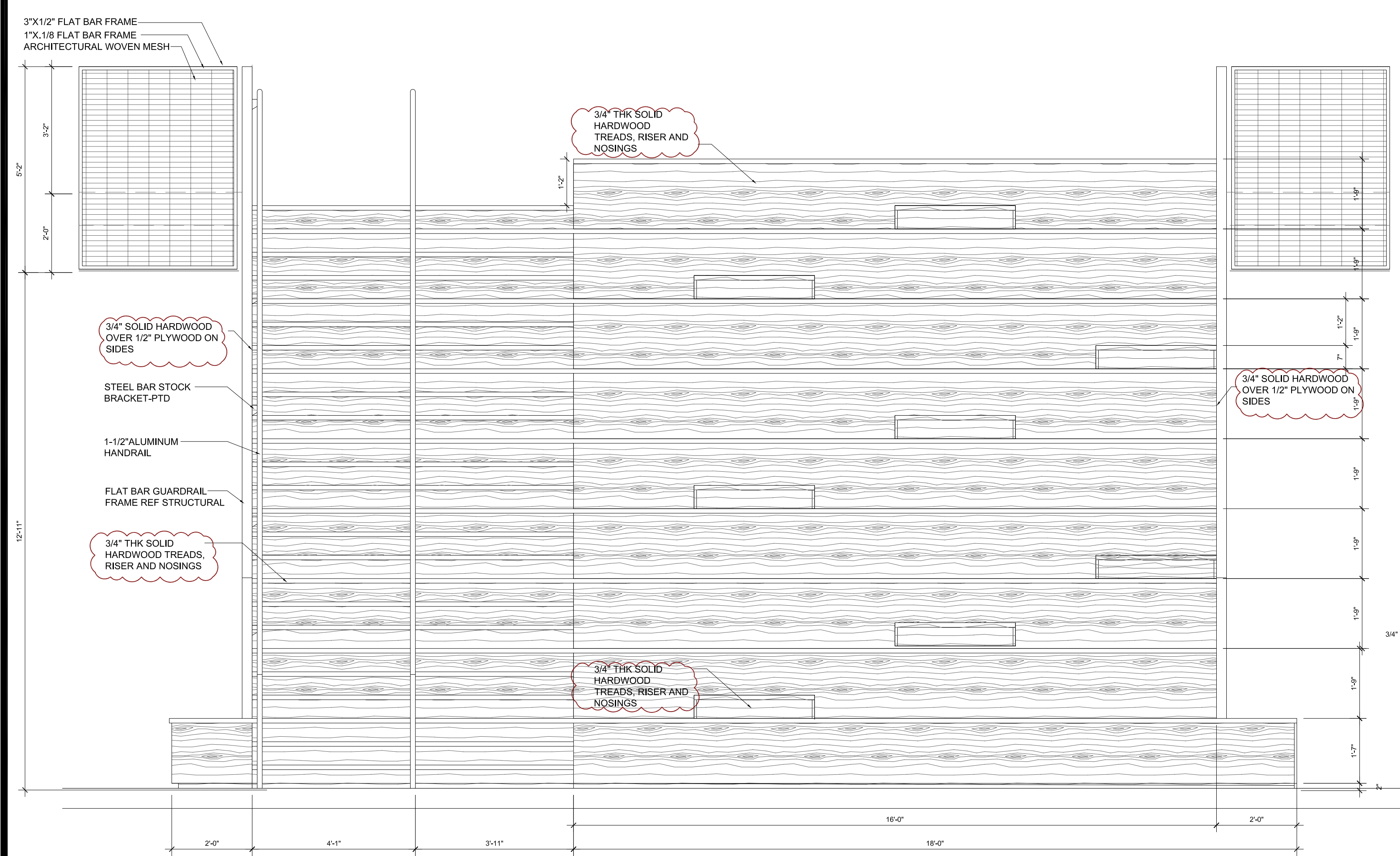


02 LEARNING STAIR ELEVATION
SCALE 1/2" = 1'-0"

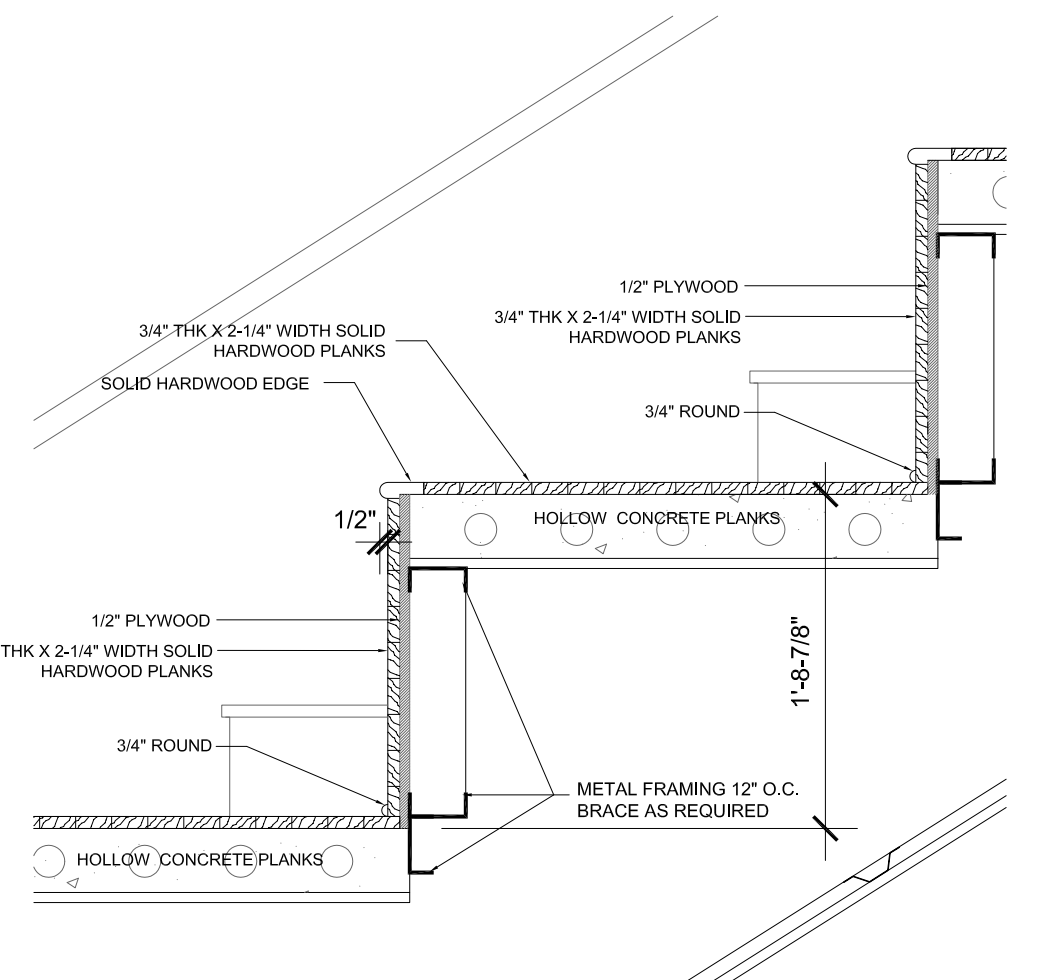


01 LEARNING STAIR PLAN
SCALE 1/4" = 1'-0"

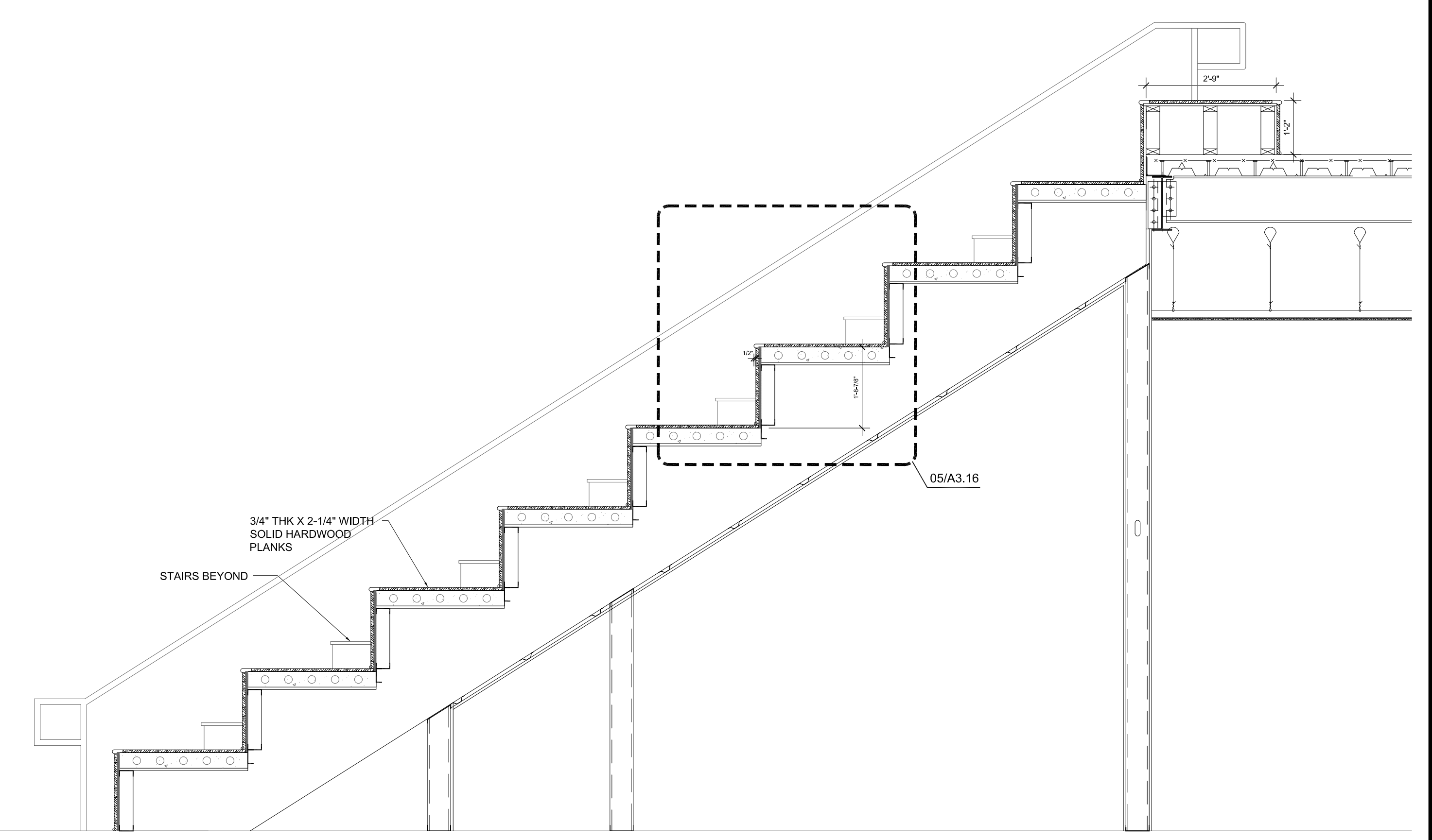
03 STAIR SECTION
SCALE 1/2" = 1'-0"



06 LEARNING STAIR ELEVATION
SCALE 1/2" = 1'-0"



05 LEARNING STAIR SECTION
SCALE 1" = 1'-0" ENLARGEMENT



04 LEARNING STAIR SECTION
SCALE 1/2" = 1'-0"

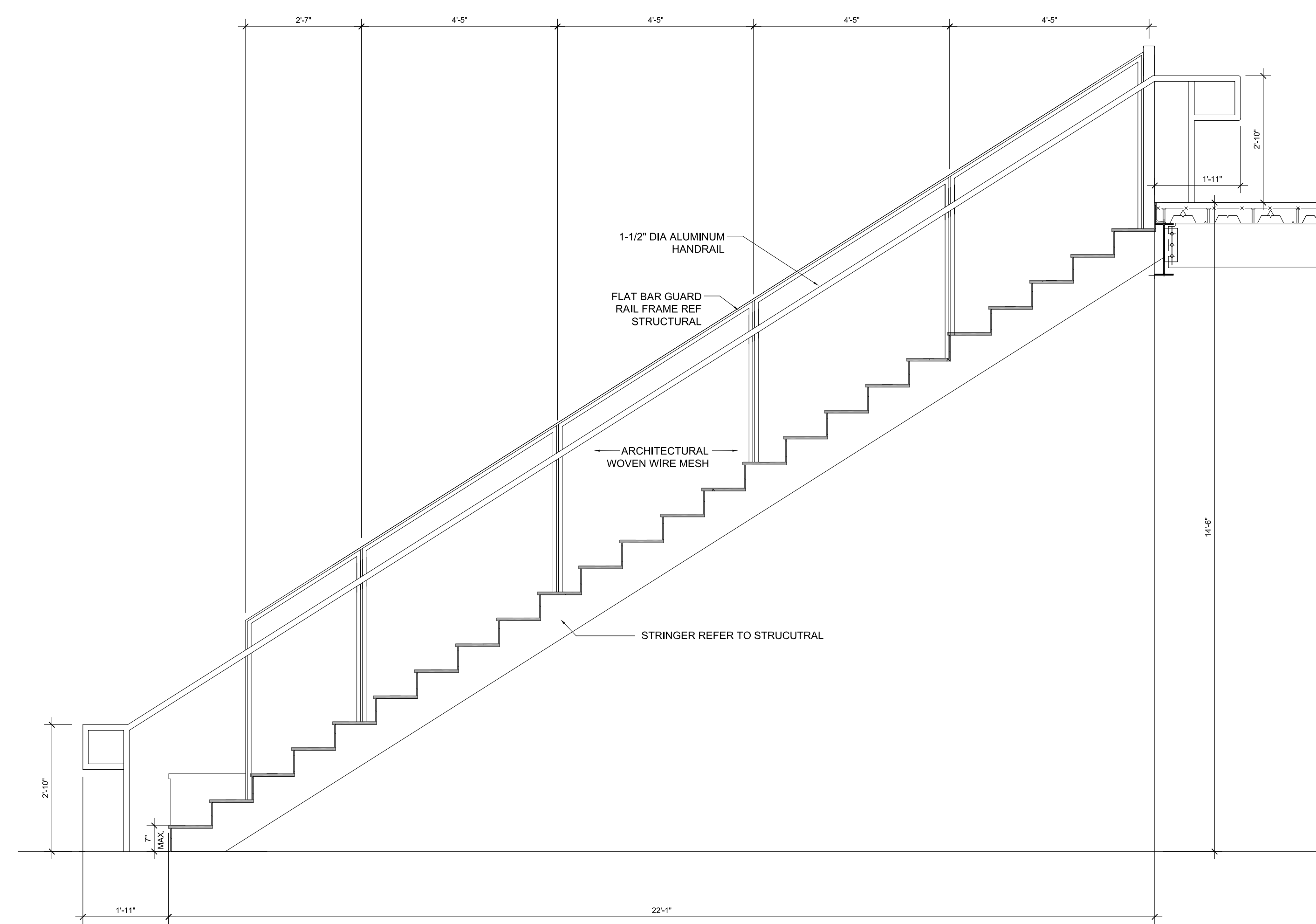
PAINT COLOR FOR STAIR ELEMENTS:
STAIR STRINGERS AND GUARDRAILS -
SW7649 SILVERPLATE

PRECAST CONCRETE TREADS:
WAUSAUTILE 800-388-8728
WEBSITE: WWW.WAUSAUTILE.COM
COLOR SELECTION: G33Y MISTY GRAY

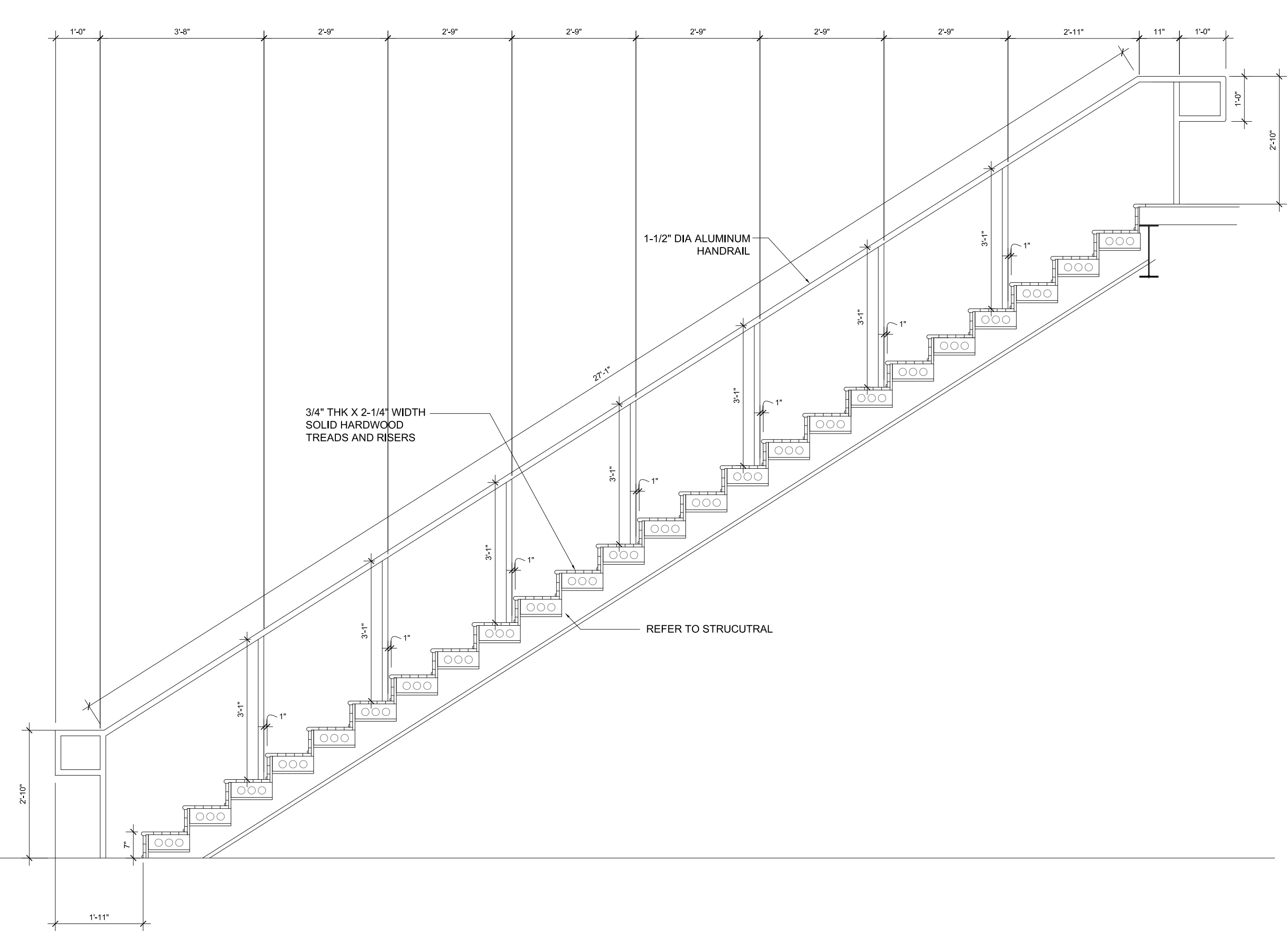


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(956) 546-0110
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01 HANDRAIL ELEVATION
SCALE 1/2" = 1'-0"



02 INTERMEDIATE HANDRAIL ELEVATION
SCALE 1/2" = 1'-0"

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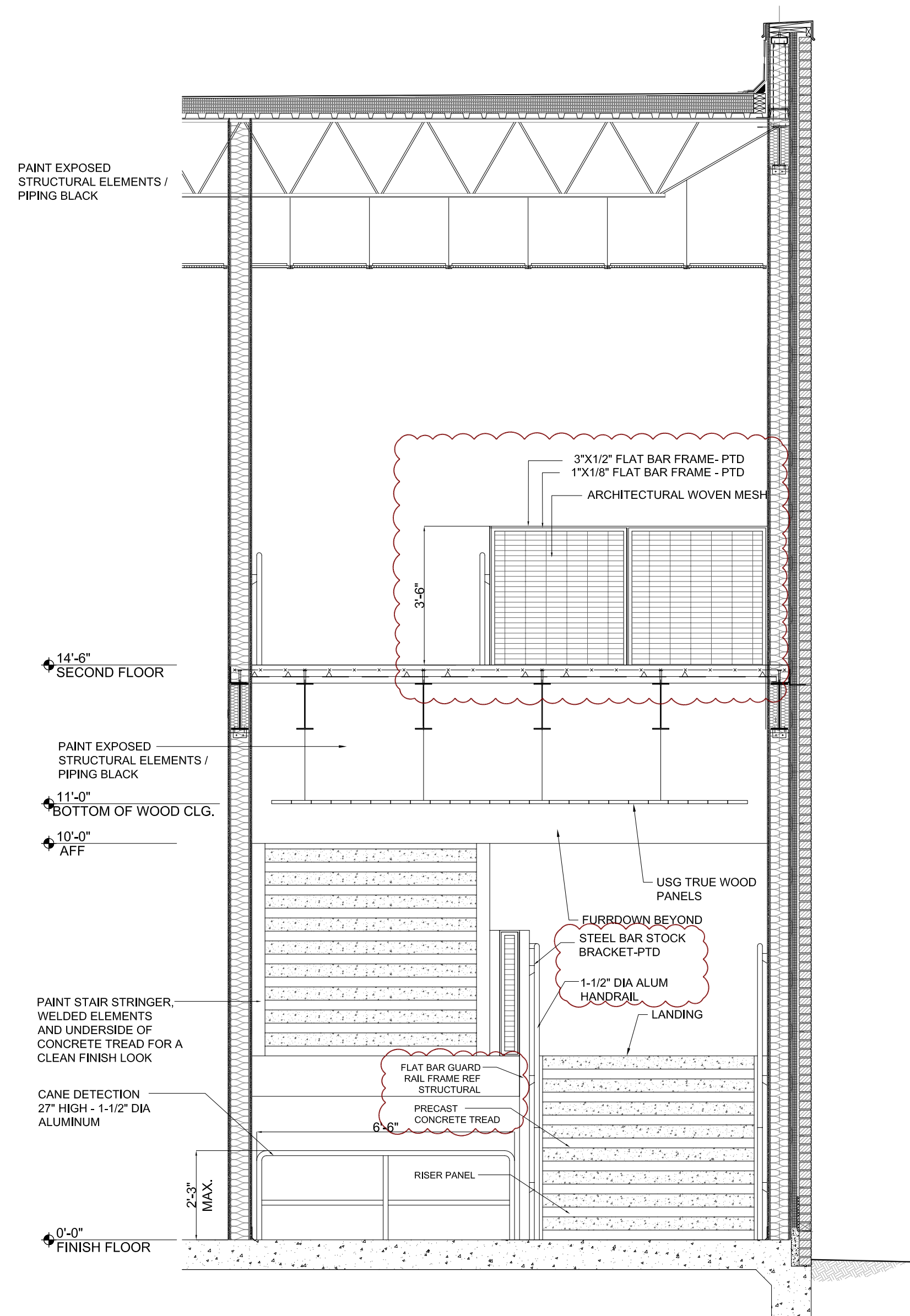


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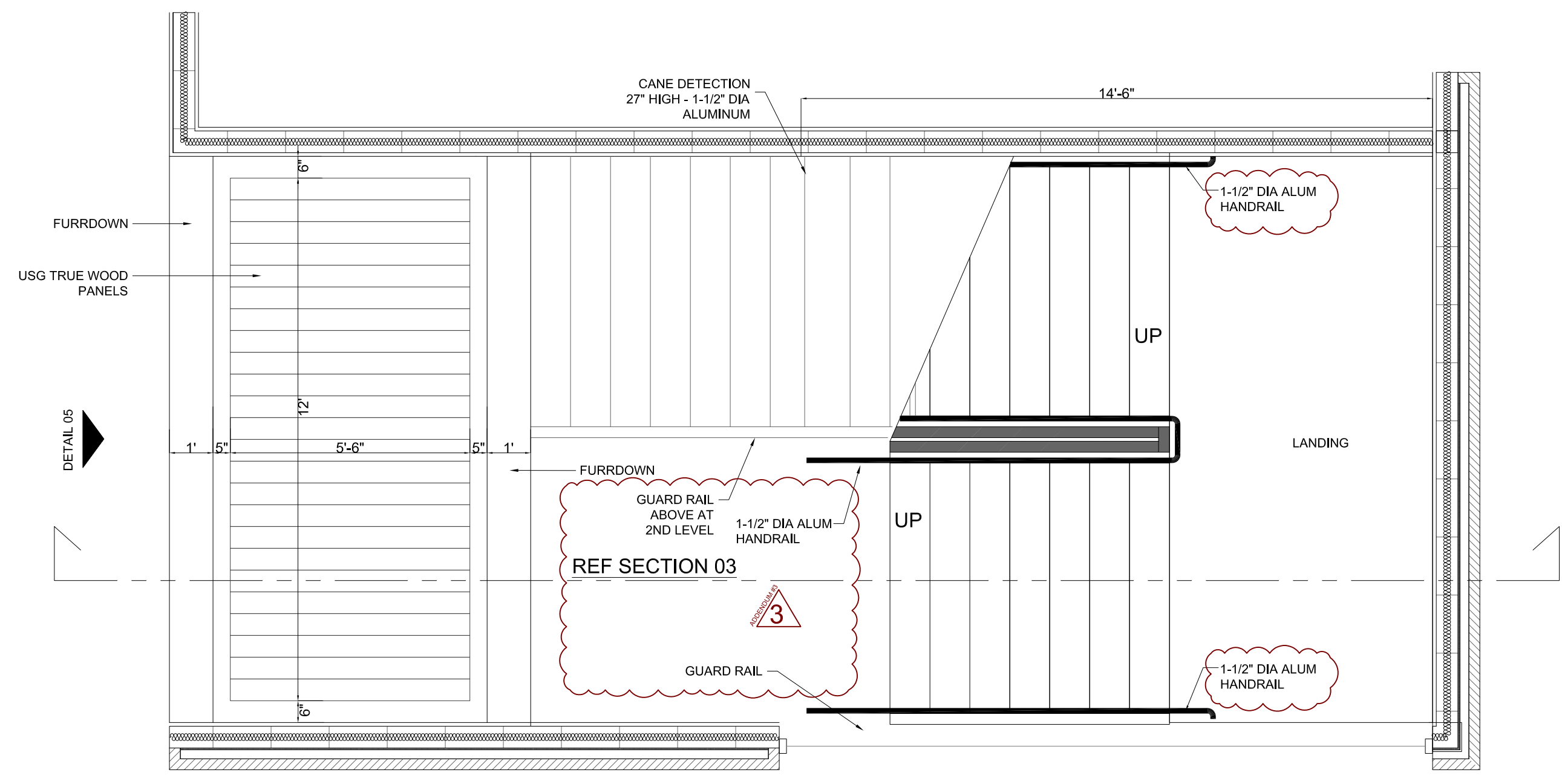
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PAINT COLOR FOR STAIR ELEMENTS:
 STAIR STRINGERS AND GUARDRAILS -
 SW7649 SILVERPLATE

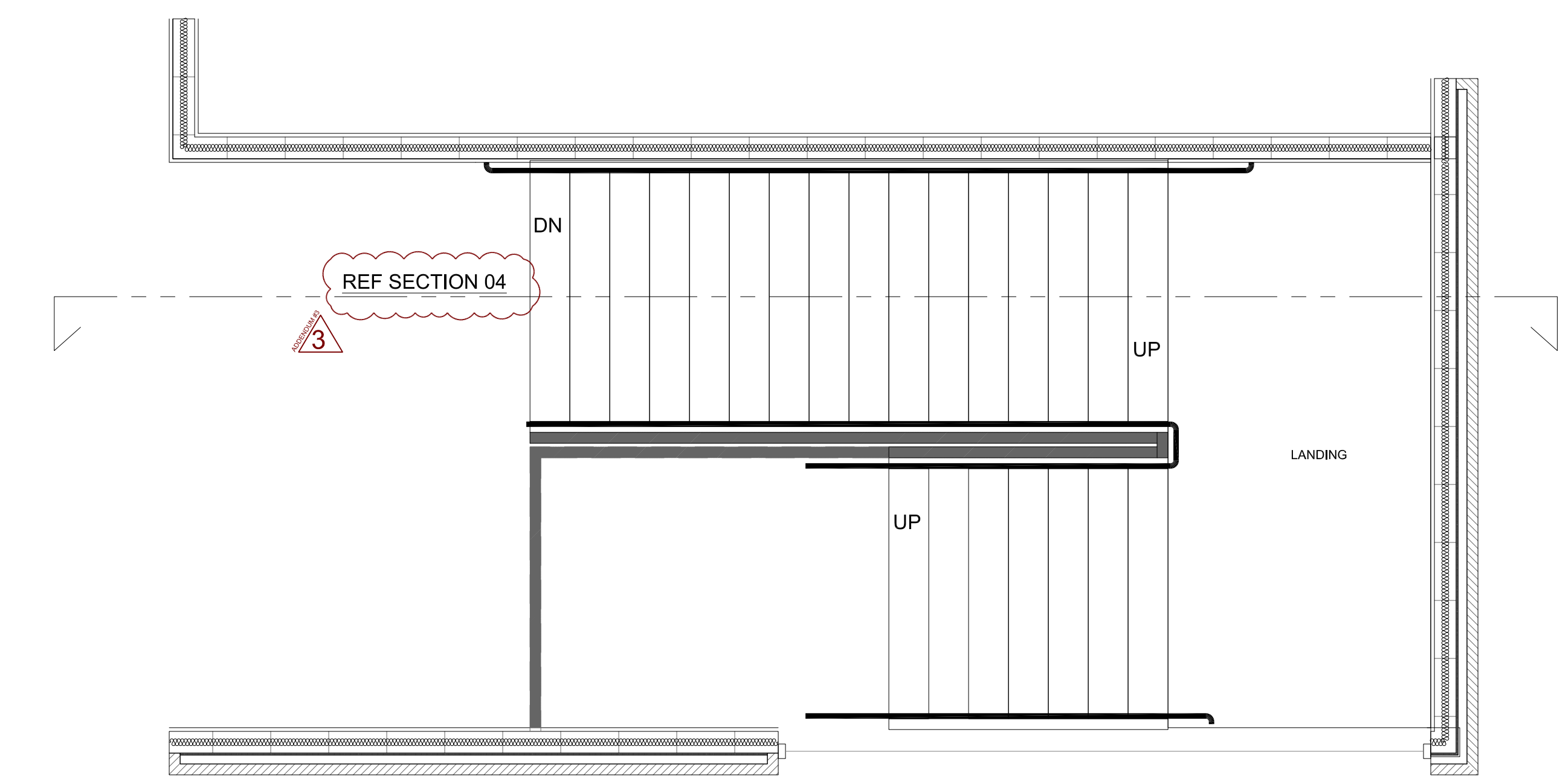
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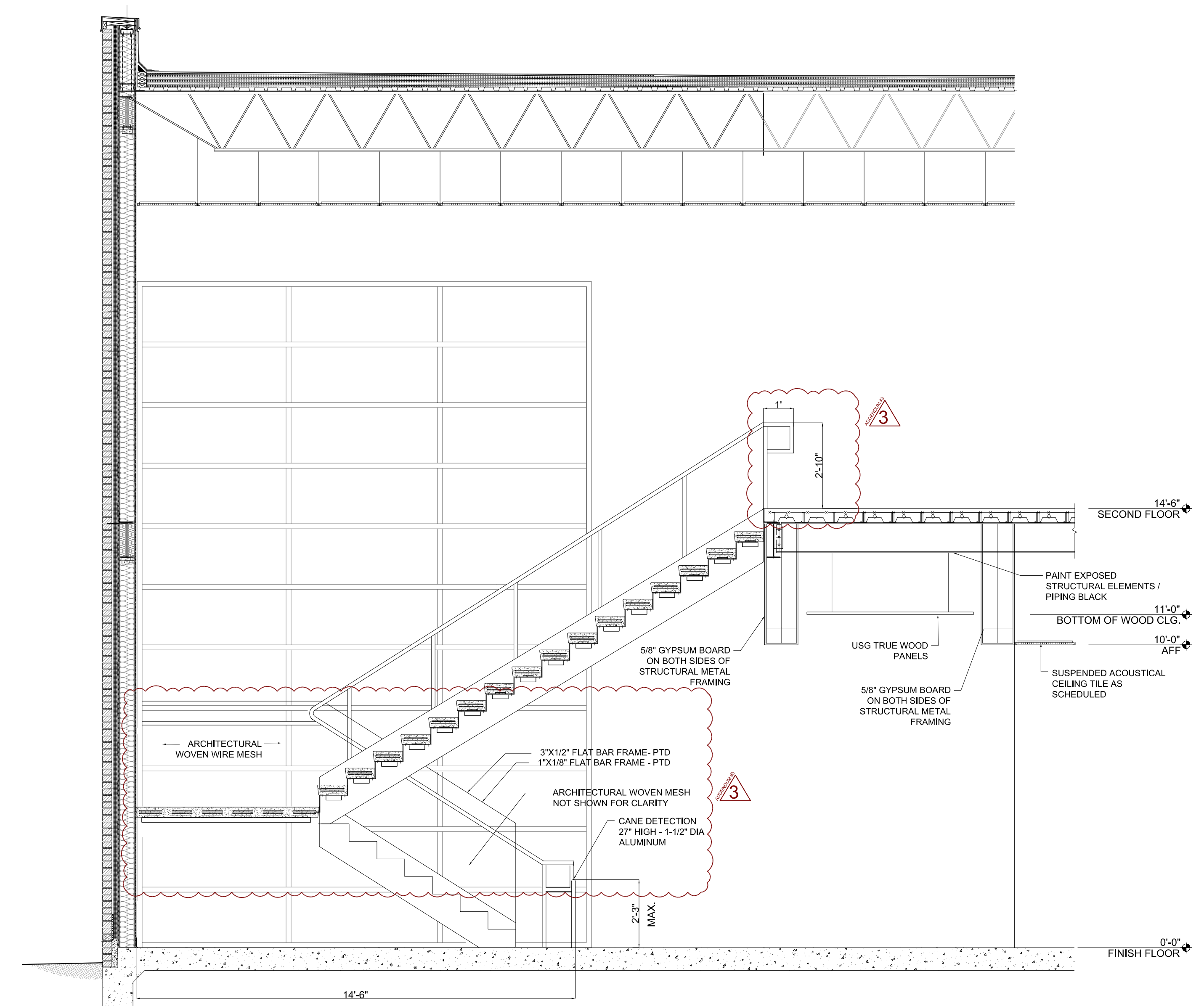
05 STAIR SECTION
 SCALE 3/8" = 1'-0"



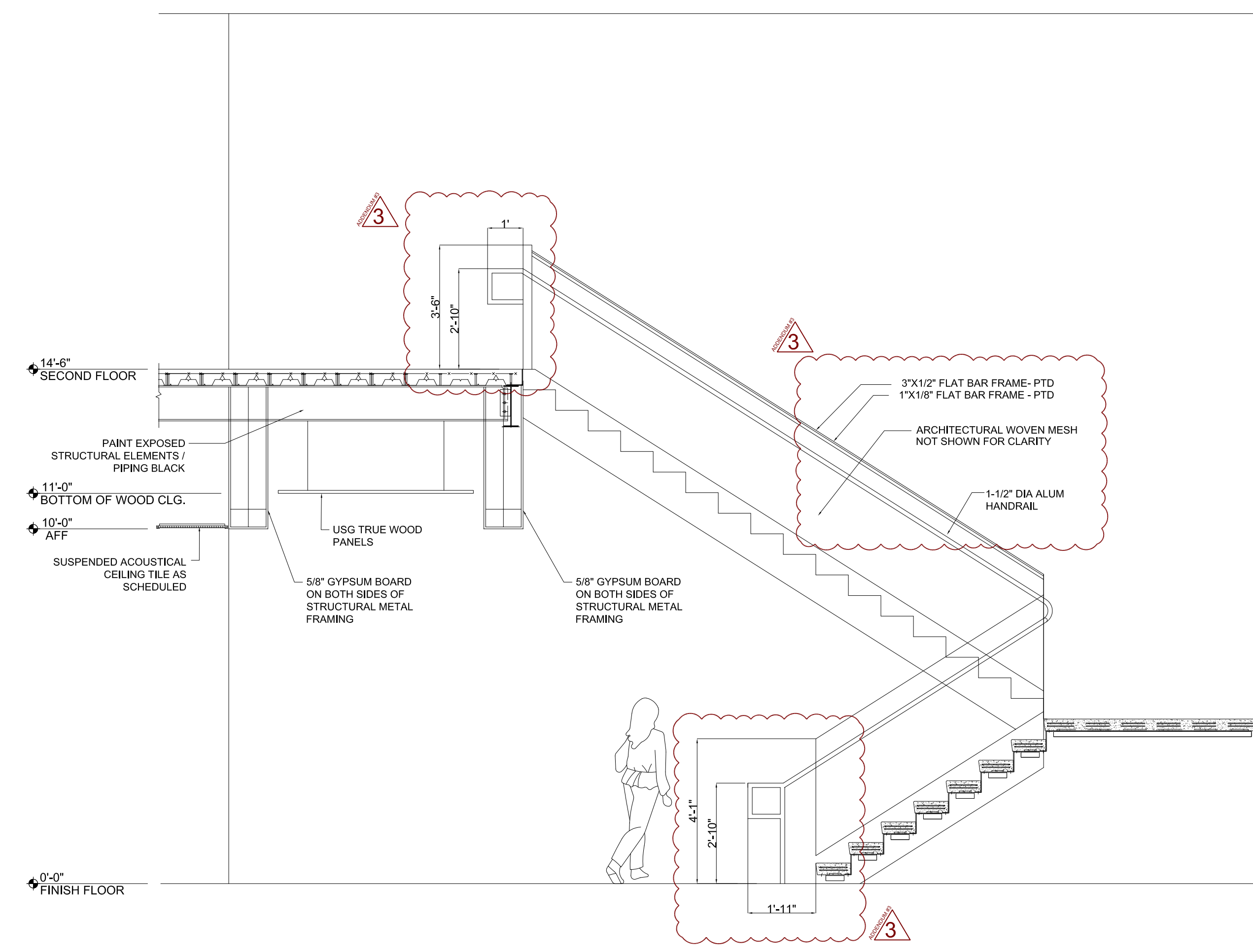
01 STAIR PLAN - FIRST FLOOR
 SCALE 3/8" = 1'-0"



02 STAIR PLAN - SECOND FLOOR
 SCALE 3/8" = 1'-0"



04 STAIR SECTION
 SCALE 3/8" = 1'-0"



03 STAIR SECTION
 SCALE 3/8" = 1'-0"

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REGISTERED ARCHITECT
 DAVID MONREAL
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 19558

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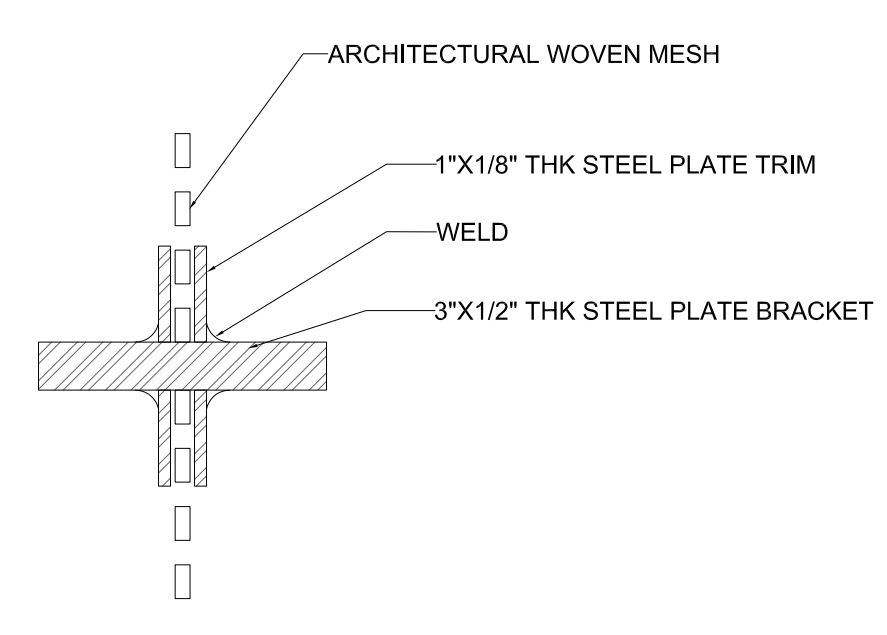
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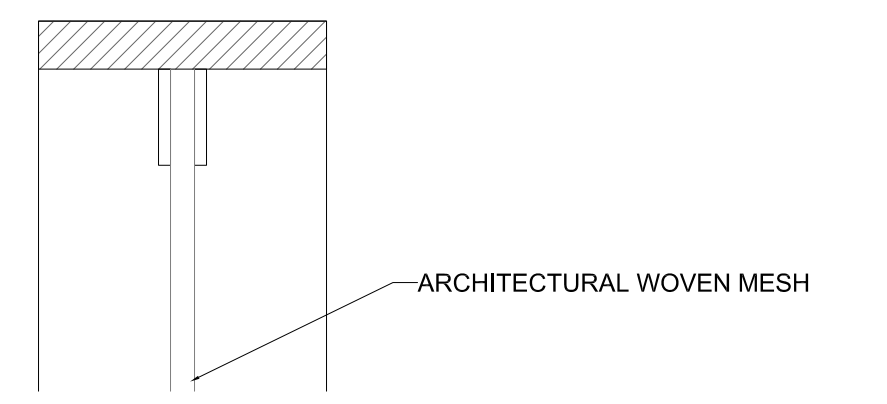
PAINT COLOR FOR STAIR ELEMENTS:
STAIR STRINGERS AND GUARDRAILS -
SW7649 SILVERPLATE

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WEBSITE: WWW.WAUSAUTILE.COM
COLOR SELECTION: G33Y MISTY GRAY

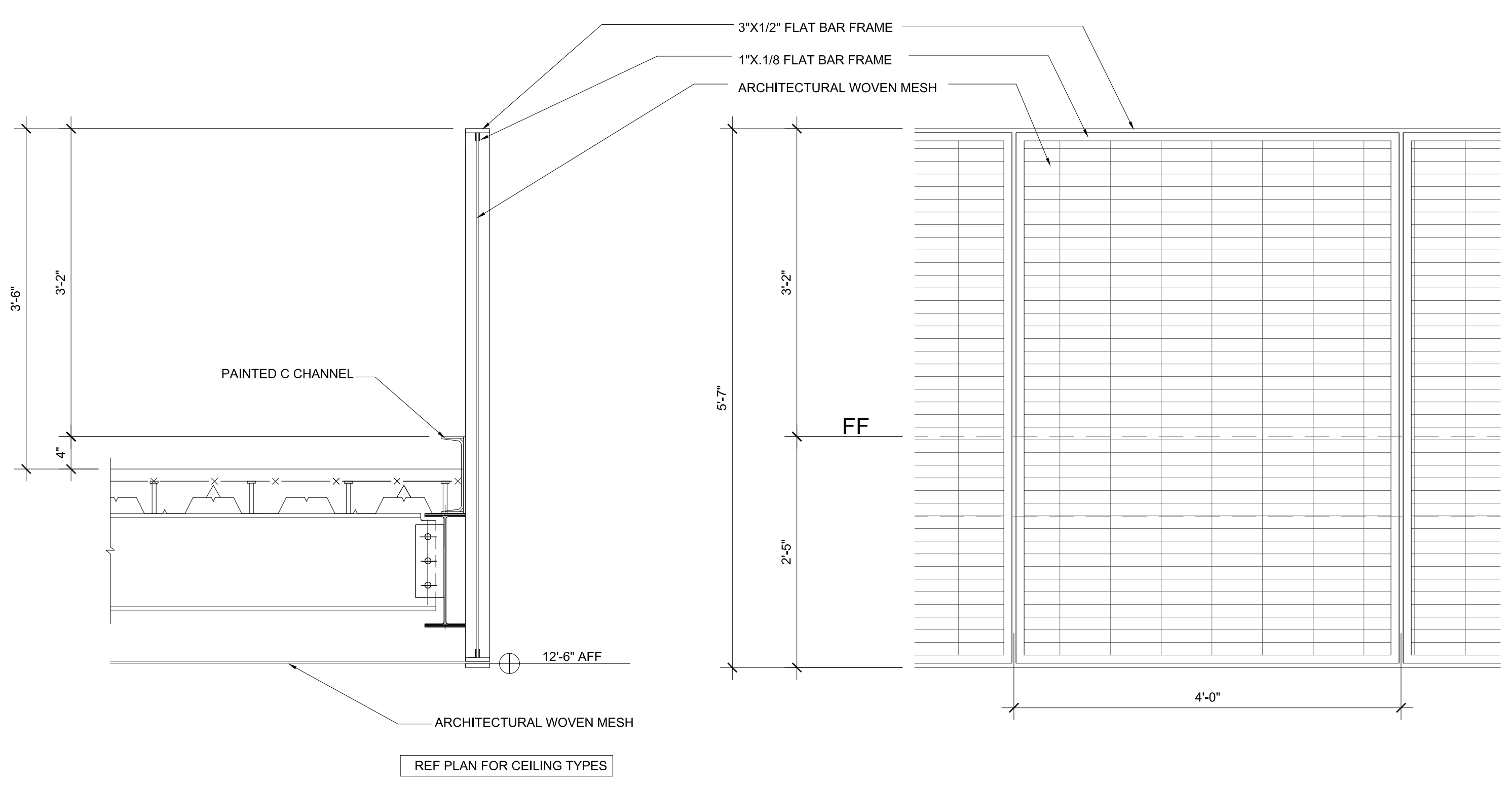
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07 PLAN SECTION AT GUARD RAIL
SCALE 1-1/2" = 1'-0"

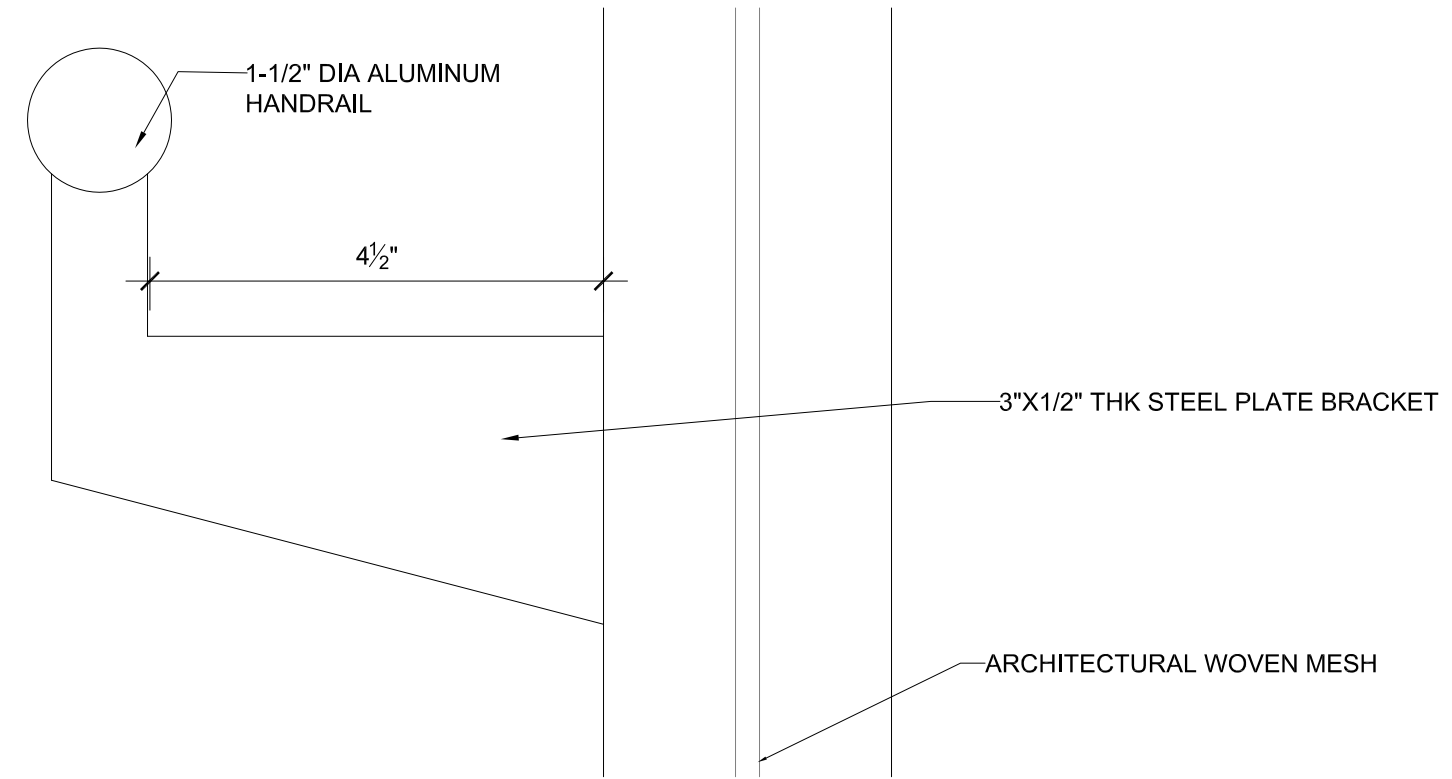


06 SECTION @ TO GUARDRAIL
SCALE 8" = 1'-0"

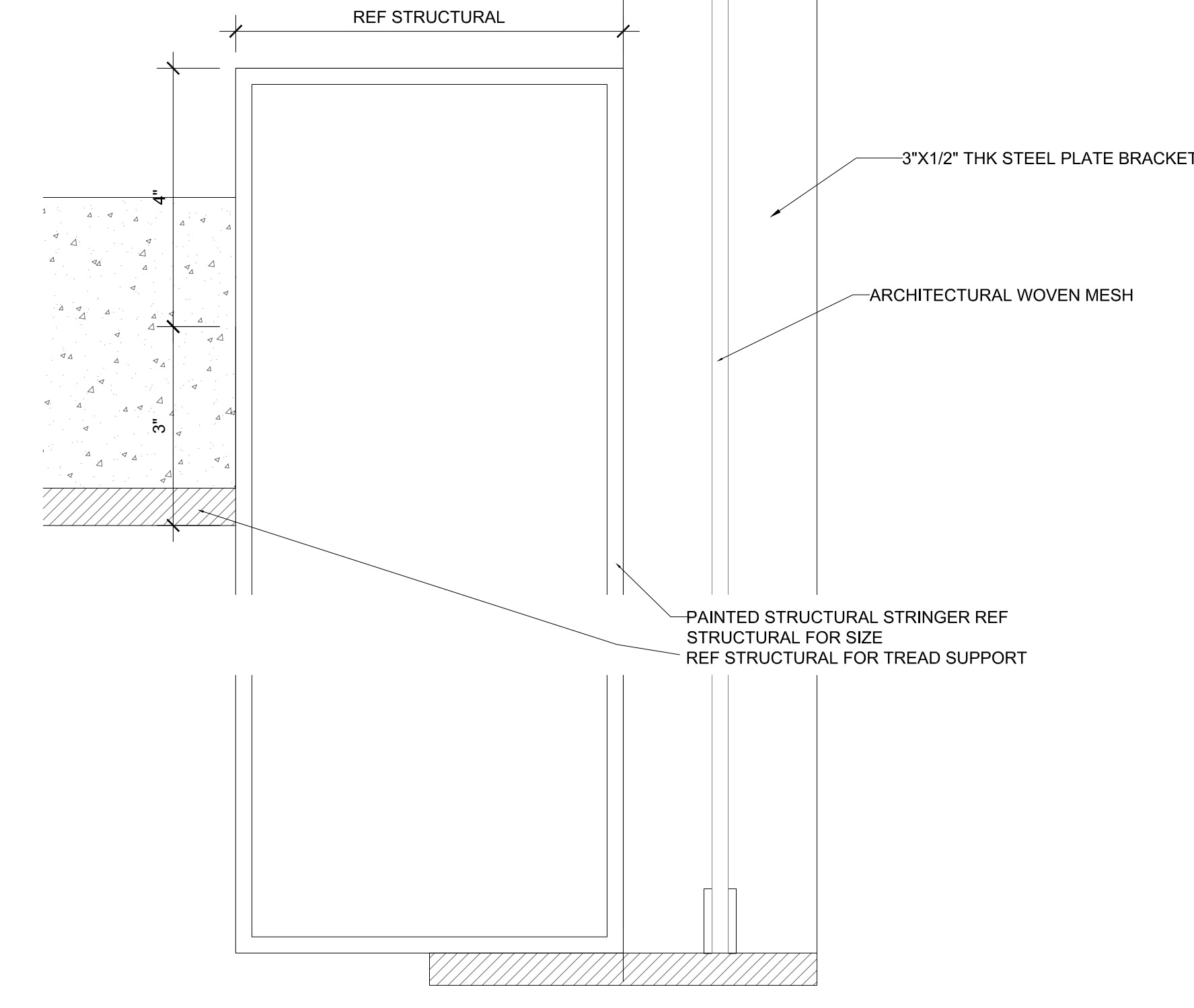


09 TYP. GUARDRAIL SECTION
SCALE 1-1/2" = 1'-0"

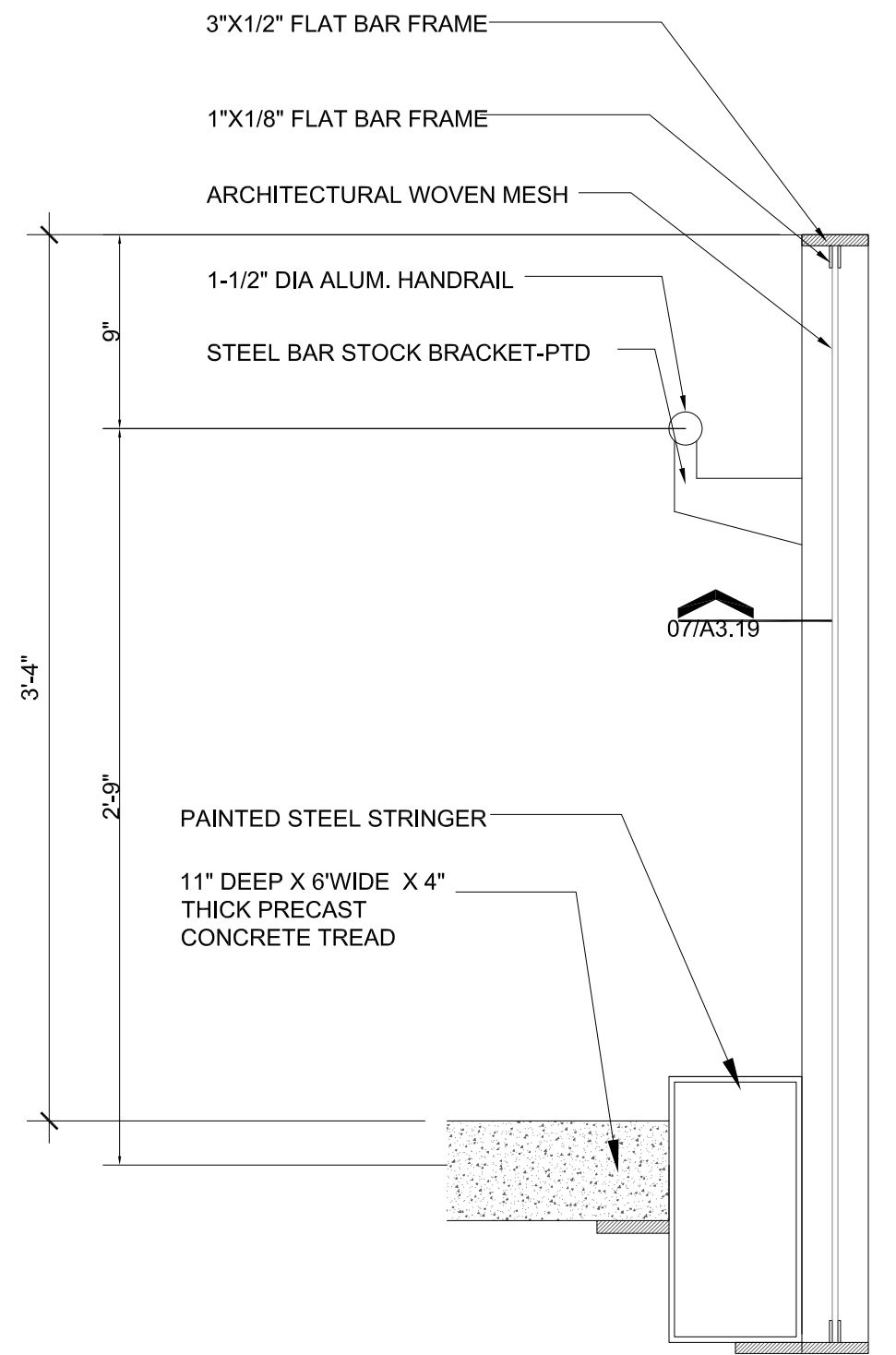
08 GUARDRAIL ELEVATION
SCALE 1-1/2" = 1'-0"



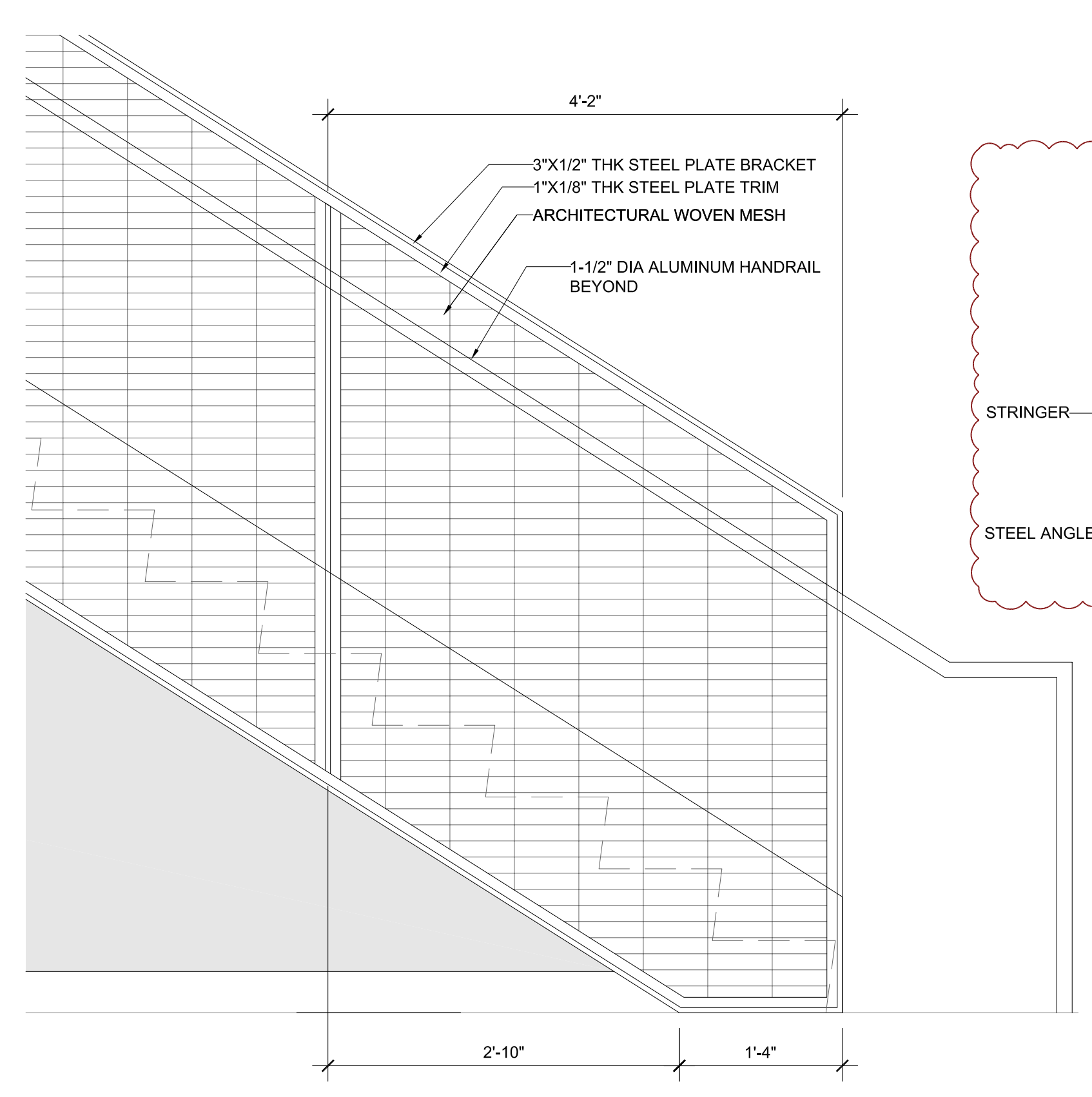
05 SECTION @ HANDRAIL
SCALE 8" = 1'-0"



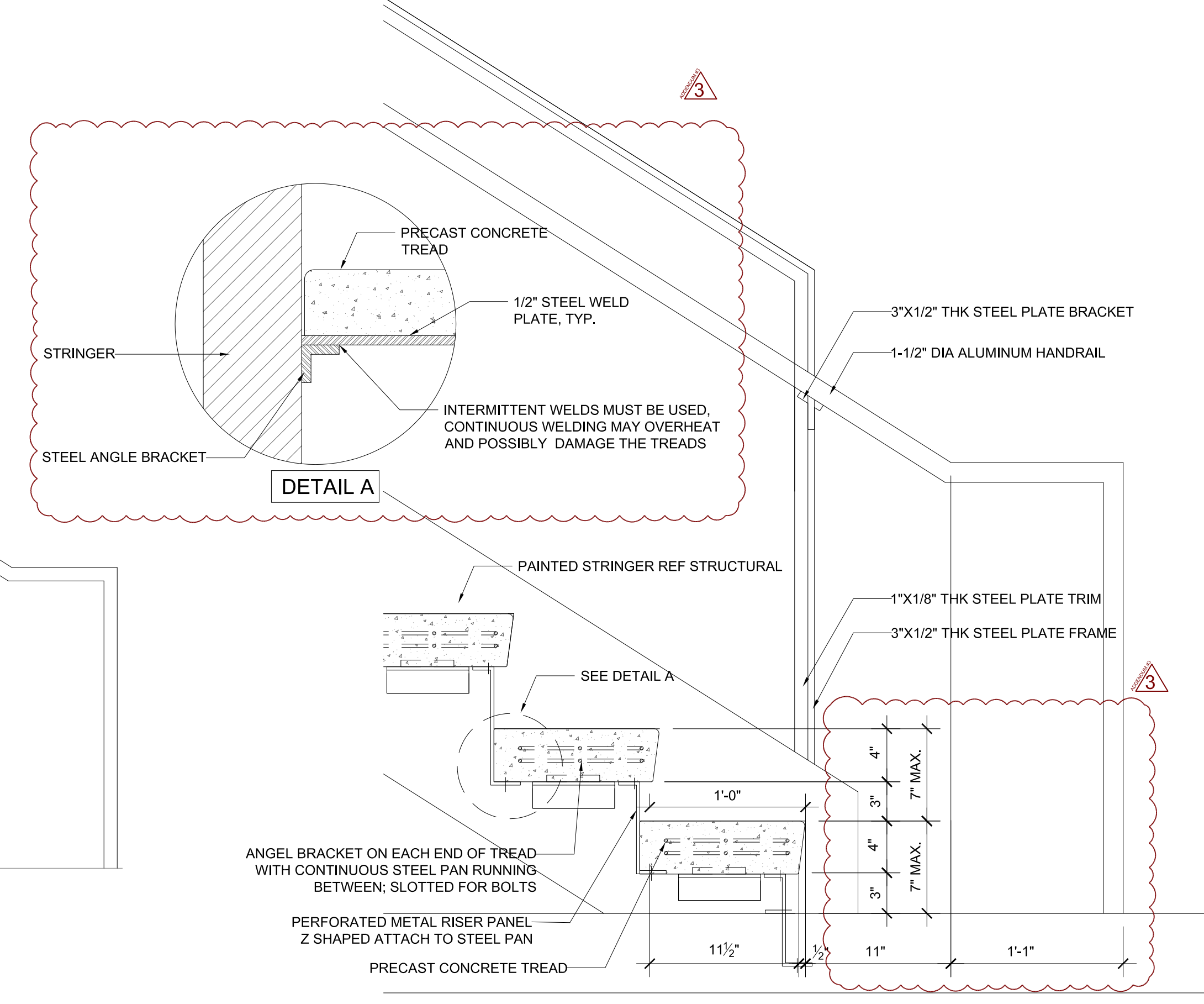
04 ENLARGED SECTION
SCALE 1-1/2" = 1'-0"



03 GUARDRAIL SECTION @ STAIRS
SCALE 1-1/2" = 1'-0"



02 GUARD RAIL ELEVATION DETAIL
SCALE 1" = 1'-0"



01 GUARD RAIL DETAIL
SCALE 1-1/2" = 1'-0"

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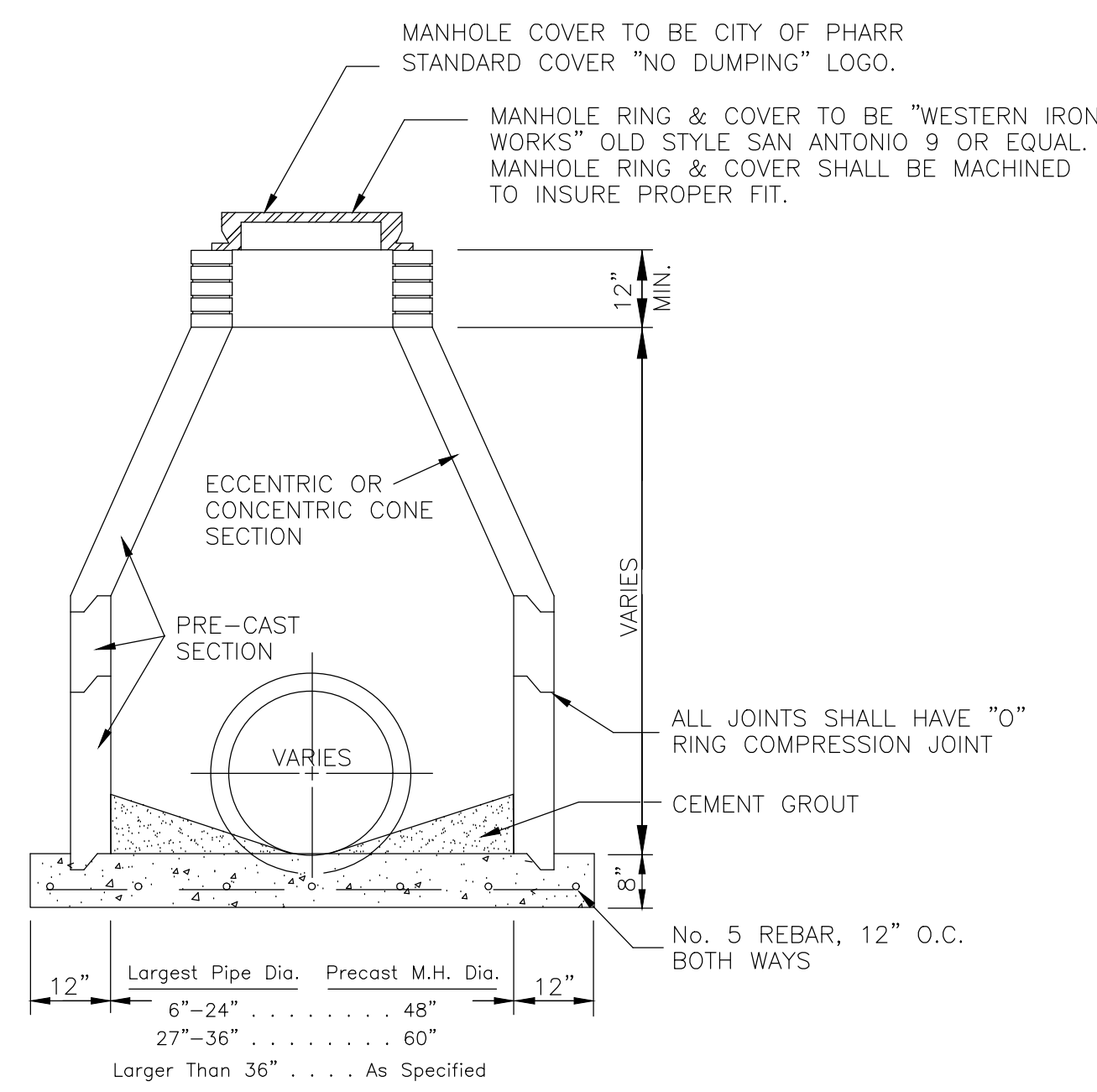
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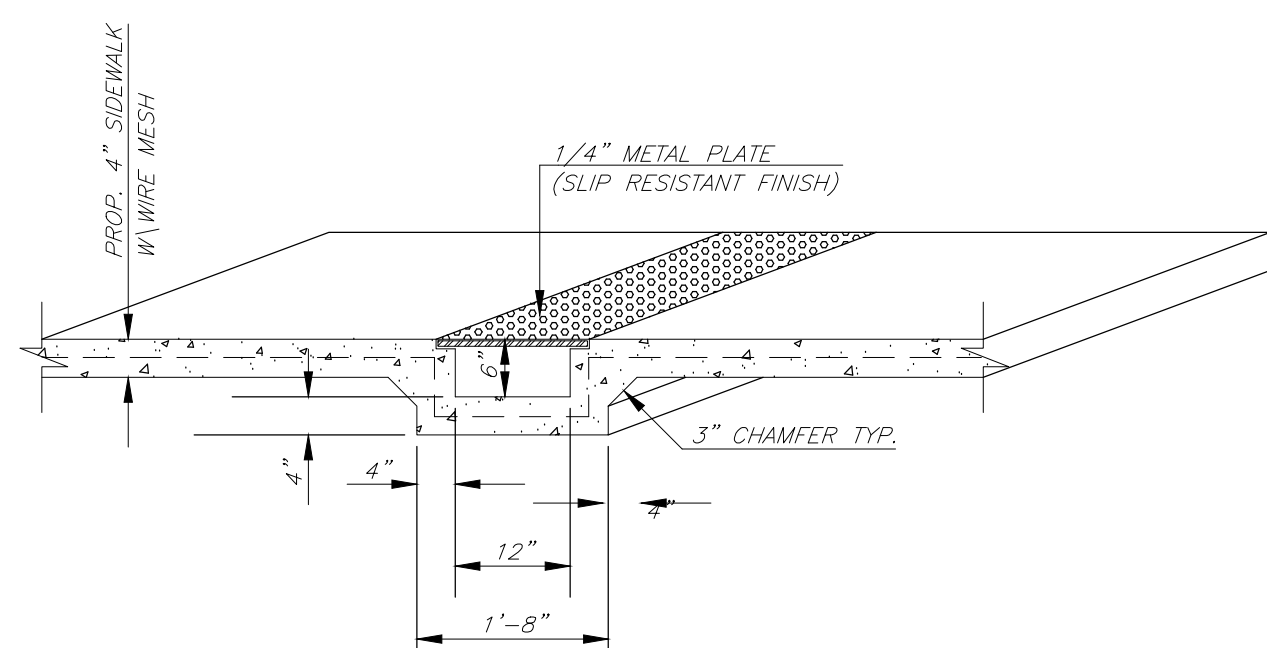
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Project Architect: David Montreal, AIA
Drawn By: JA, CM, CG
Job No: UTRGV/ECISD
Sheet:

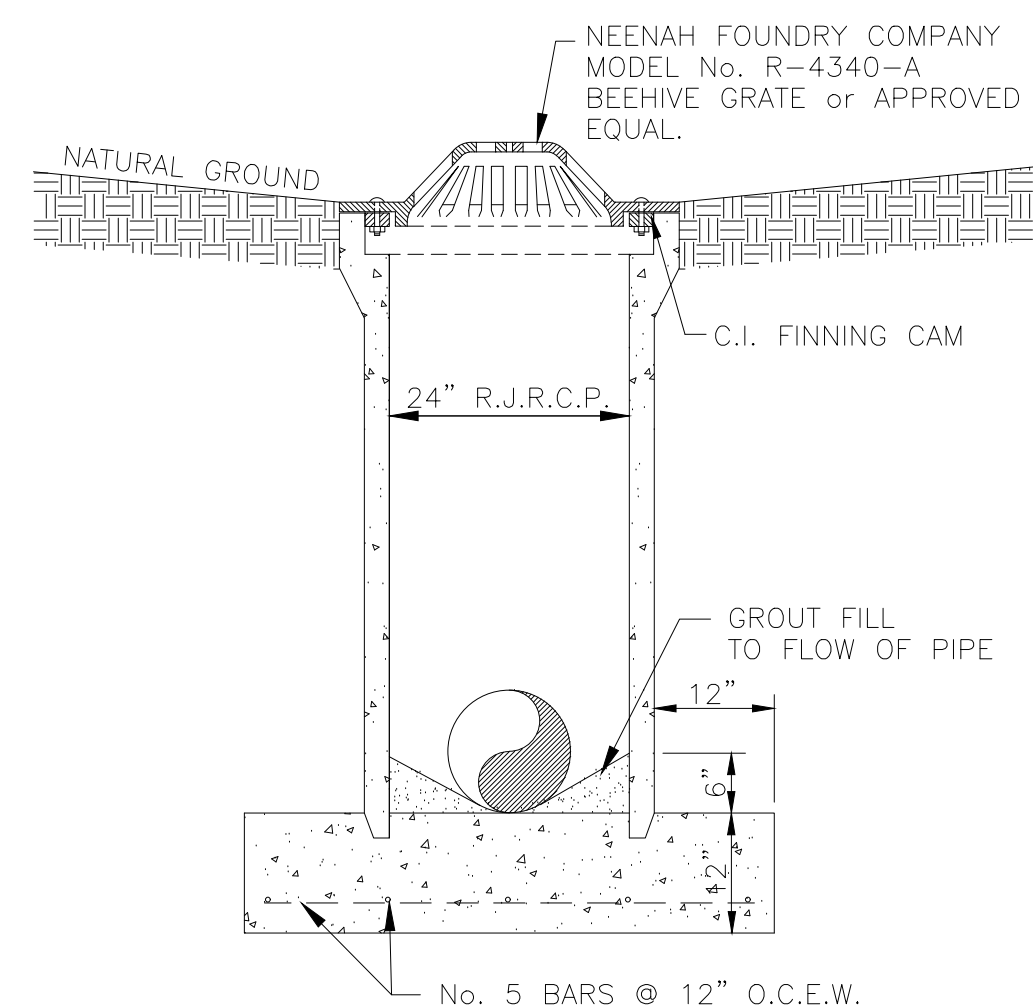
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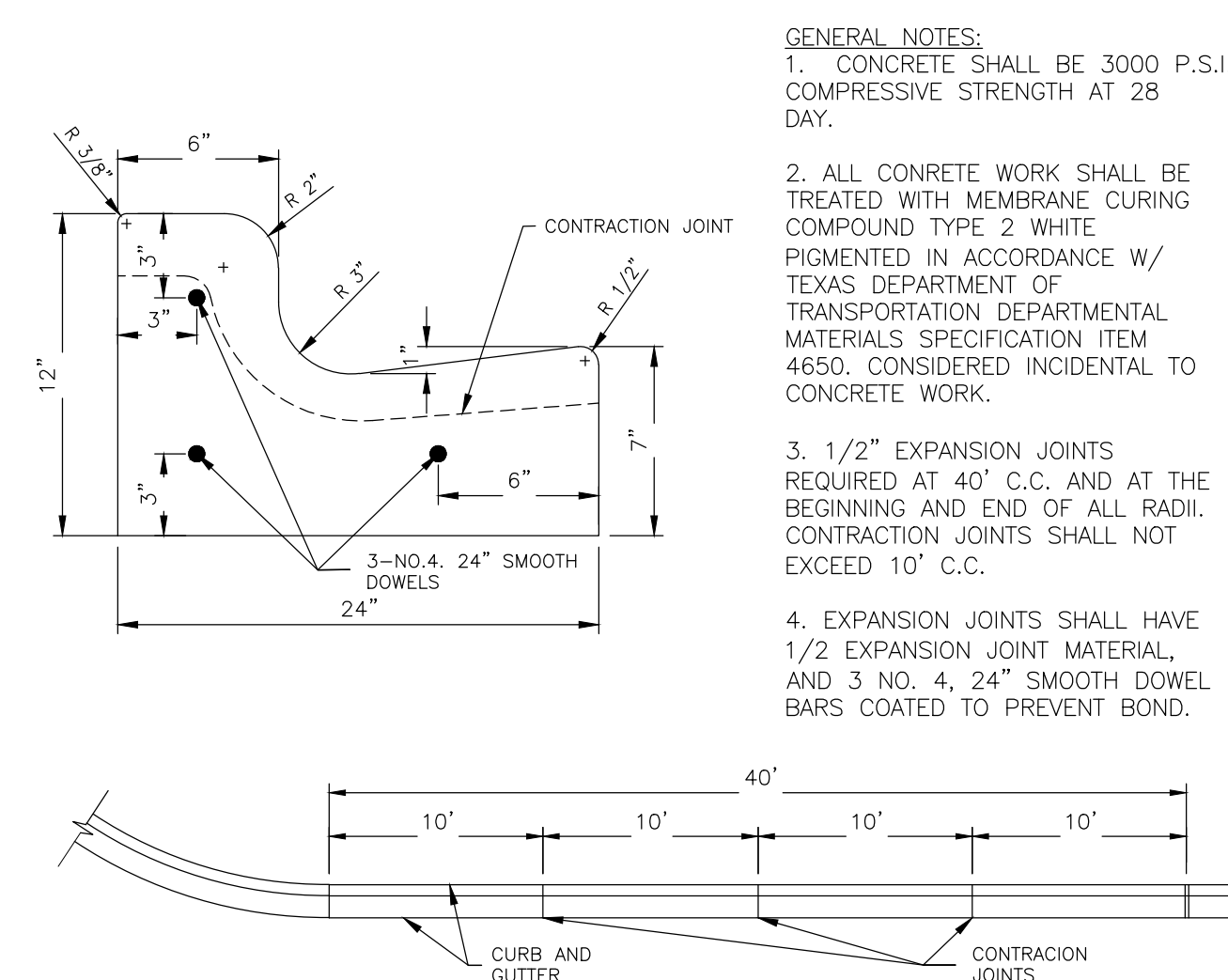
STANDARD STORM SEWER PRE-CAST CONCRETE MANHOLE
N.T.S.



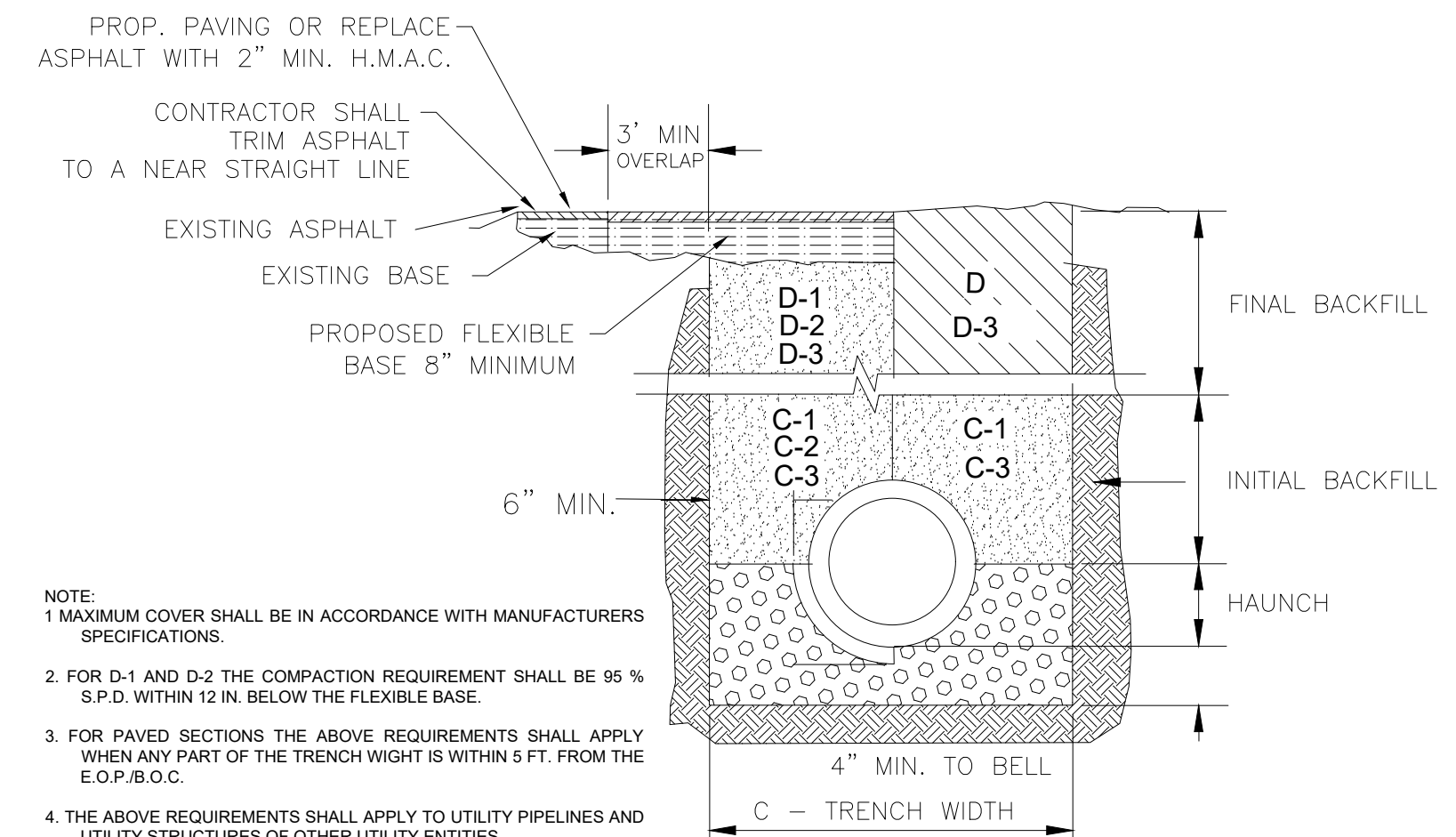
SIDEWALK CHUTE DETAIL
N.T.S.



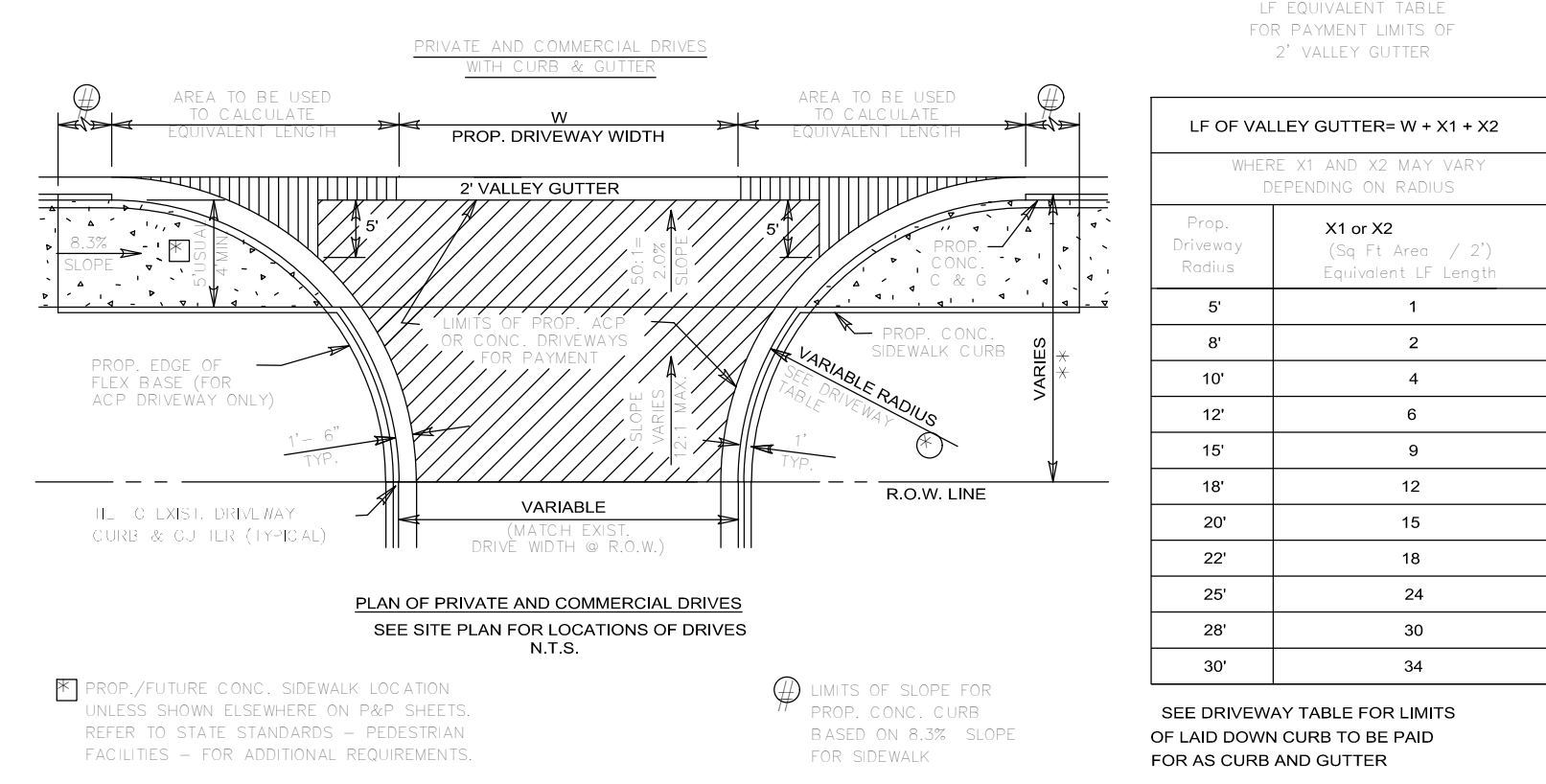
BEEHIVE INLET DETAIL
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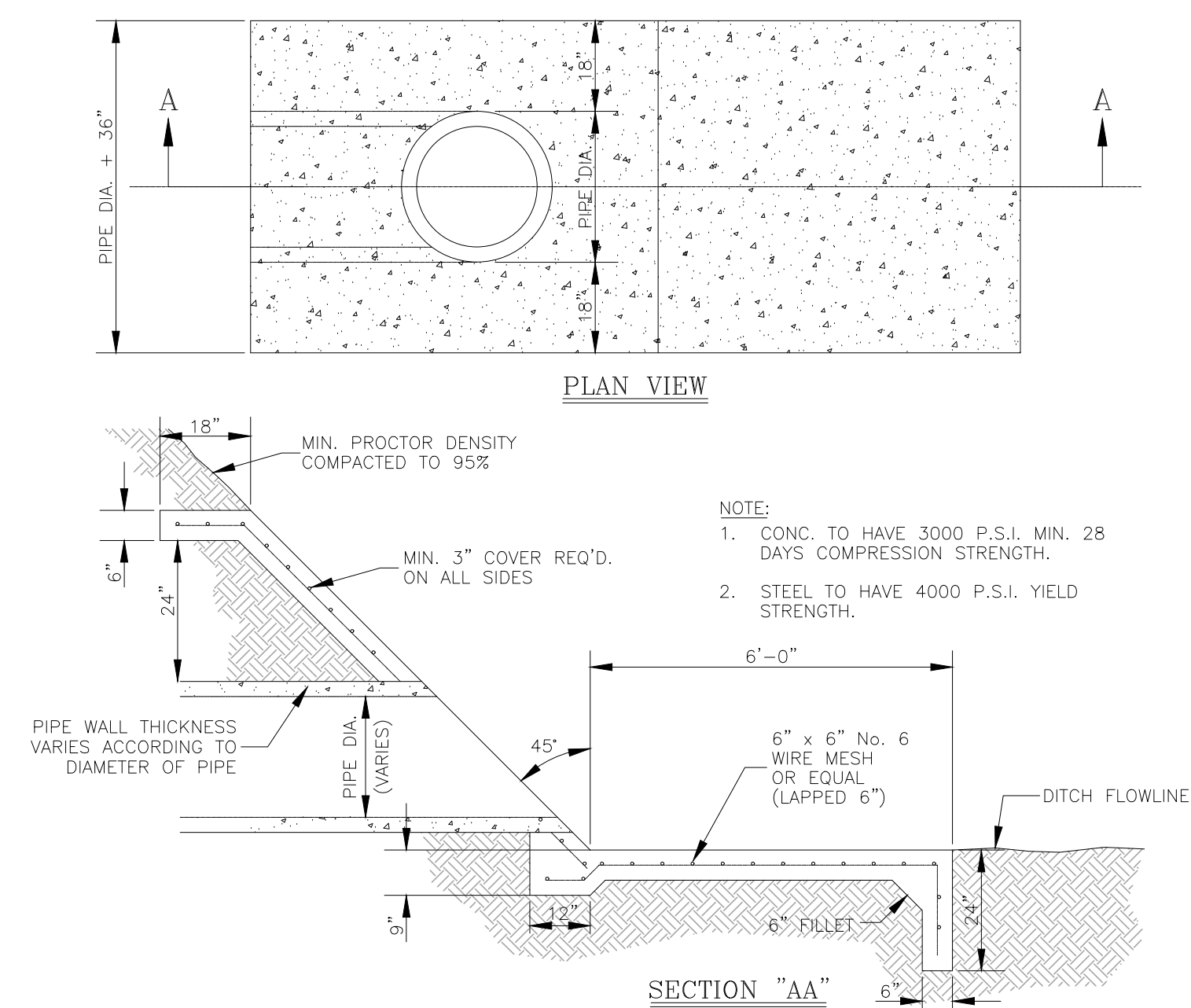
SECTION "AA" - CONCRETE CURB & GUTTER



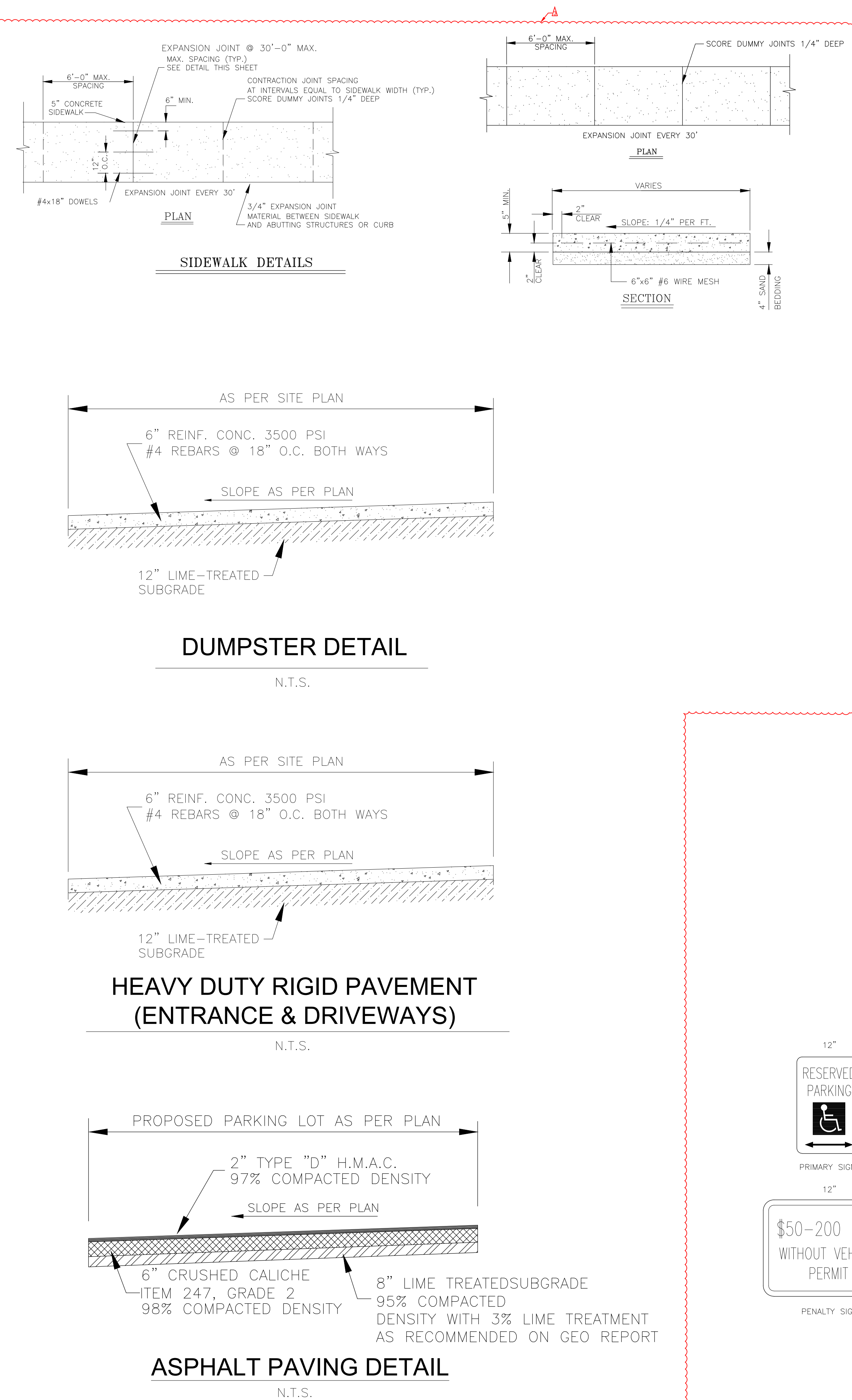
STORM TRENCH BEDDING AND BACKFILL DETAILS
N.T.S.



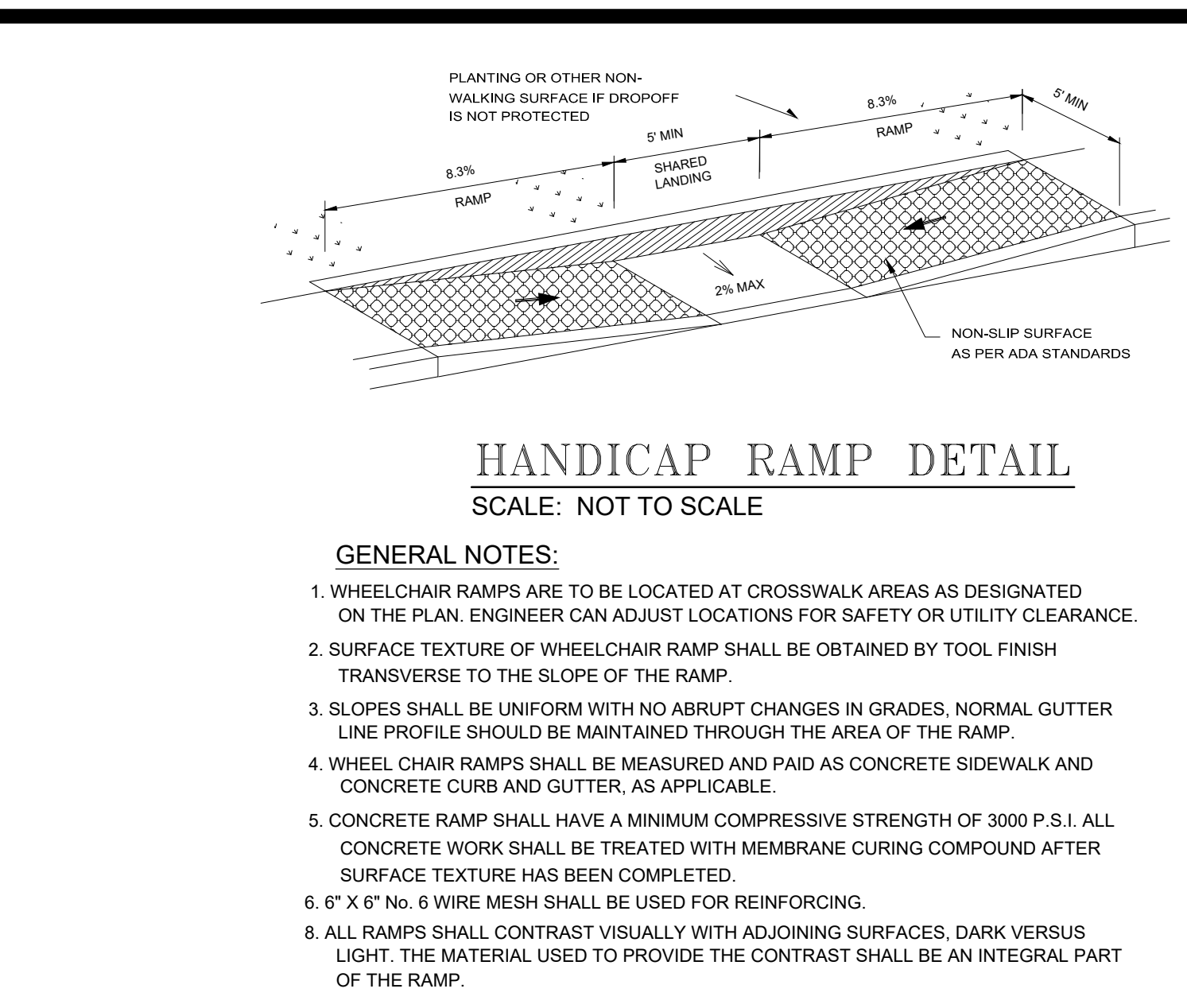
PRIVATE AND COMMERCIAL DRIVES WITH CURB & GUTTER
SCALE: N.T.S.



STORM DISCHARGE STRUCTURE
N.T.S.



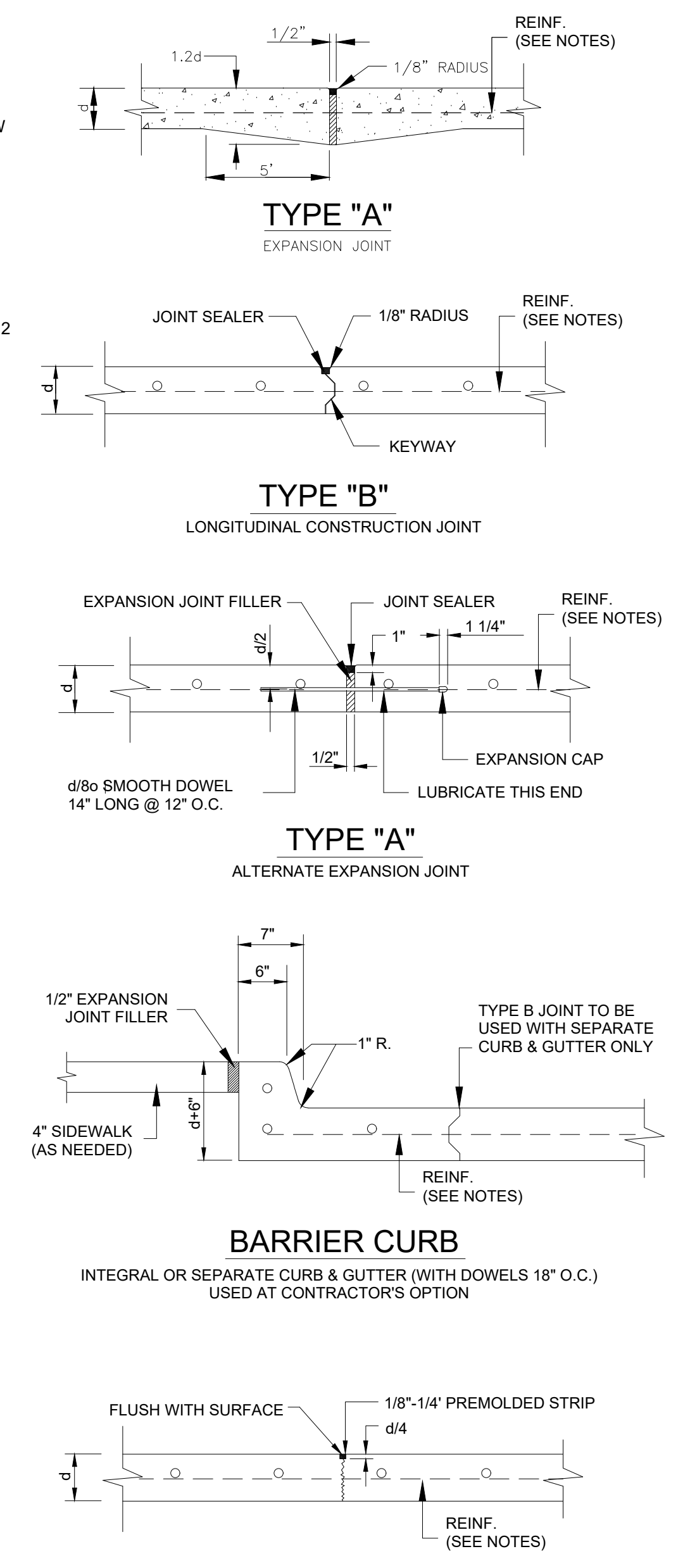
ASPHALT PAVING DETAIL
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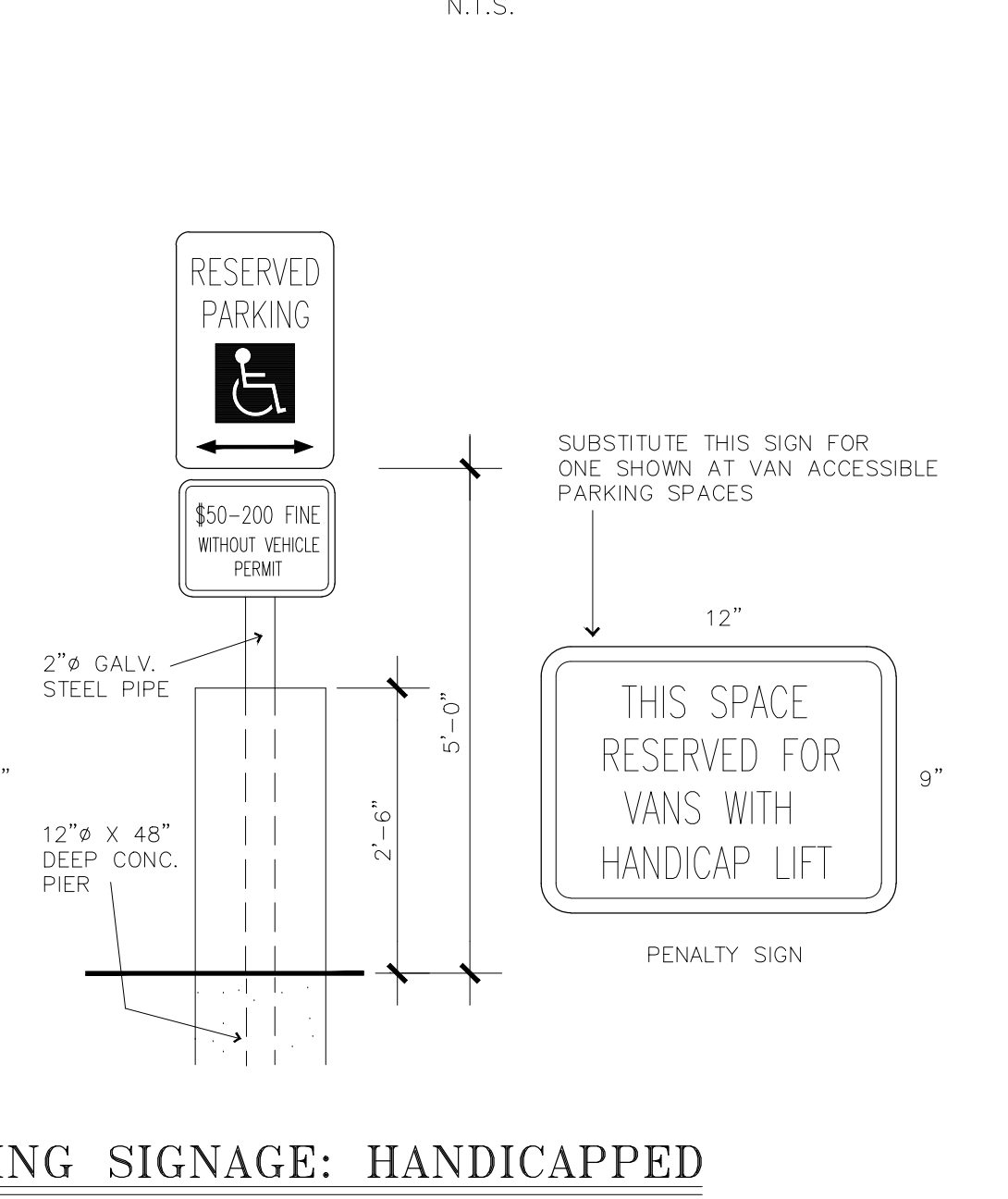
HANDICAP RAMP DETAIL
SCALE: NOT TO SCALE

- GENERAL NOTES:**
- WHEEL CHAIR RAMP ARE TO BE LOCATED AT CROSSWALK AREAS AS DESIGNATED ON THE PLAN. ENGINEER CAN ADJUST LOCATIONS FOR SAFETY OR UTILITY CLEARANCE.
 - SURFACE TEXTURE OF WHEEL CHAIR RAMP SHALL BE OBTAINED BY TOOL FINISH TRANSVERSE TO THE SLOPE OF THE RAMP.
 - SLOPES SHALL BE UNIFORM WITH NO ABRUPT CHANGES IN GRADES. NORMAL GUTTER LINE PROFILE SHOULD BE MAINTAINED THROUGH THE AREA OF THE RAMP.
 - WHEEL CHAIR RAMP SHALL BE MEASURED AND PAID AS CONCRETE SIDEWALK AND CONCRETE CURB AND GUTTER, AS APPLICABLE.
 - CONCRETE RAMP SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 P.S.I. ALL CONCRETE WORK SHALL BE TREATED WITH MEMBRANE CURING COMPOUND AFTER SURFACE TEXTURE HAS BEEN COMPLETED.
 - 6" x 6" No. 6 WIRE MESH SHALL BE USED FOR REINFORCING.
 - ALL RAMP SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES. DARK VERSUS LIGHT. THE MATERIAL USED TO PROVIDE THE CONTRAST SHALL BE AN INTEGRAL PART OF THE RAMP.

- JOINING NOTES:**
- THE CONSTRUCTION JOINTING PLAN HAS BEEN DEVELOPED ASSUMING TYPICAL PAVING TECHNIQUES. IF THE CONTRACTOR'S EQUIPMENT OR PROCEDURES REQUIRE A DEVIATION, THE CONTRACTOR SHALL SUBMIT A REVISED JOINTING PLAN FOR REVIEW BY THE ENGINEER PRIOR TO CONSTRUCTION.
 - RECOMMENDED MAX. JOINT SPACING IS 15 FT. LONGITUDINAL 15 FEET TRANSVERSE.
 - CONCRETE CURB MAY BE INTEGRAL OR AS PER DETAIL ON JOINTS.
 - IF SAWCUT THEN CONTROL JOINTS SHOULD BE CUT WITHIN 6 TO 12 HOURS OF CONCRETE PLACEMENT.
 - EXPANSION JOINT SPACING: THE INSTALLATION OF EXPANSION JOINTS IS OPTIONAL.
 - ALL JOINTS MUST BE SEALED.



CONCRETE JOINT DETAILS
FIRE LANE STRIPING DETAIL
N.T.S.



PARKING SIGNAGE: HANDICAPPED
N.T.S.

No. REVISIONS BY
1 ADDENDUM #3 CP

GMS ARCHITECTS
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MELDEN & HUNT INC.
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110 W. MAIN ST. STE. 100
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CORP. OFFICE
ESTABLISHED 1947

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97421
KELLEY A. HELLER-VELA, P.E. 07421
09/30/2022

UTRGV/ EDINBURG CISD COLLEGIATE HIGH SCHOOL
CONSTRUCTION DETAILS
100% SET

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Date: SEPTEMBER 06, 2022
Scale: As Noted
Project Engineer: KELLEY HELLER-VELA
Drawn By: CP
Job No. UTRGV/CISD
Sheet

C7

September 30, 2022

UTRGV / Edinburg CISD Collegiate High School
Addendum #3

CE Project No.: 22-226

The following changes, additions, and/or deletions are hereby made a part of the Construction Documents for the above noted project, fully and completely as if the same were fully contained therein. All other terms, conditions, and specifications of the original Invitation to Bid remain unchanged and is included in the contract.

PLEASE NOTE CHANGES AS FOLLOWS:

S1.06 – S1.06 Second Floor Live Load Plan

- All stairs and landings shall be designed for a live load of 100 psf and dead load of 35 psf. Refer to note on S1.06 for additional information.
- HSS stair stringer size configurations shall be 12” tall by 3” wide. Coordinate any additional requirements with Architectural.

S3.02 – S3.02 Partial First Floor Wall Layout Plan

- Modifications to the steel tube header locations based on architectural revisions.

S3.04 – S3.04 Partial Second Floor Framing/Low Roof Framing Plan

- Added detail cut for operable partition support framing.

S3.06 – S3.06 Partial Second Floor Wall Layout Plan

- Modifications to the steel tube header locations based on architectural revisions.

S4.02 – S4.02 Partial Roof Framing Plan

- Added detail cut for operable partition support framing.

S6.05 – S6.05 Framing Details

- New sheet that includes the operable partition support framing details.

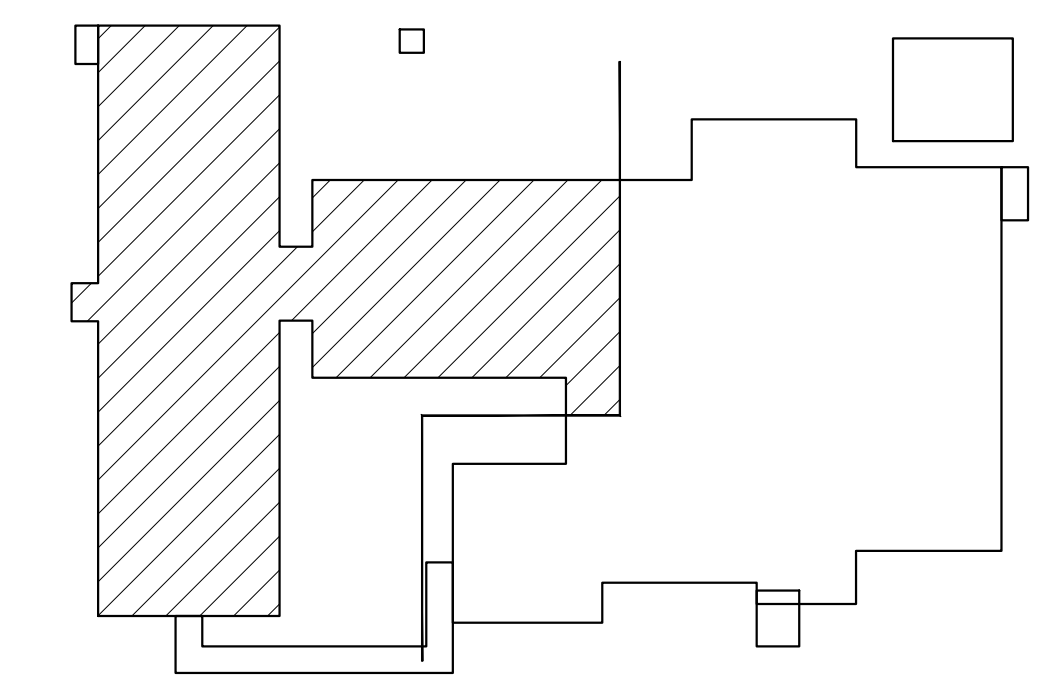
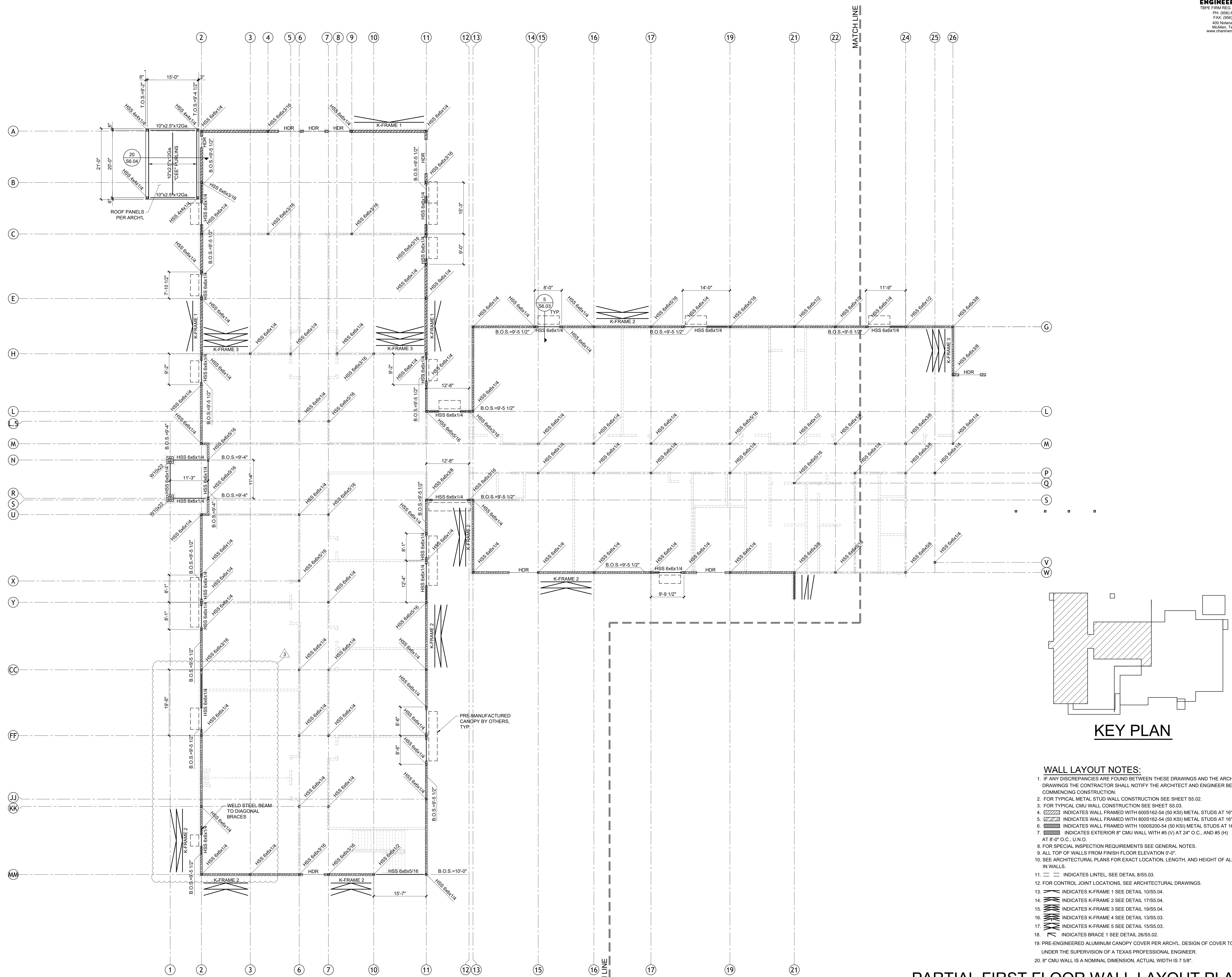
End of – Addendum #3



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| 2 | 09-30-22 | |

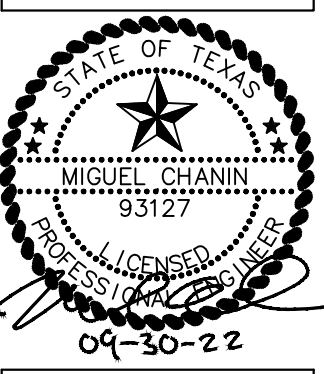


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KEY PLAN

- WALL LAYOUT NOTES:**
- IF ANY DISCREPANCIES ARE FOUND BETWEEN THESE DRAWINGS AND THE ARCHITECTURAL DRAWINGS THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AND ENGINEER BEFORE COMMENCING CONSTRUCTION.
 - FOR TYPICAL METAL STUD WALL CONSTRUCTION SEE SHEET S5.03.
 - FOR TYPICAL CMU WALL CONSTRUCTION SEE SHEET S5.03.
 - INDICATES WALL FRAMED WITH 600S162-54 (50 KSI) METAL STUDS AT 16" O.C., U.N.O.
 - INDICATES WALL FRAMED WITH 800S162-54 (50 KSI) METAL STUDS AT 16" O.C., U.N.O.
 - INDICATES WALL FRAMED WITH 1000S200-54 (50 KSI) METAL STUDS AT 16" O.C., U.N.O.
 - INDICATES EXTERIOR 8" CMU WALL WITH #5 (V) AT 24" O.C., AND #5 (H) AT 8'-0" O.C., U.N.O.
 - FOR SPECIAL INSPECTION REQUIREMENTS SEE GENERAL NOTES.
 - ALL TOP OF WALLS FROM FINISH FLOOR ELEVATION 0'-0".
 - SEE ARCHITECTURAL PLANS FOR EXACT LOCATION, LENGTH, AND HEIGHT OF ALL OPENINGS IN WALLS.
 - INDICATES LINTEL, SEE DETAIL 8/S5.03.
 - FOR CONTROL JOINT LOCATIONS, SEE ARCHITECTURAL DRAWINGS.
 - INDICATES K-FRAME 1 SEE DETAIL 10/S5.04.
 - INDICATES K-FRAME 2 SEE DETAIL 17/S5.04.
 - INDICATES K-FRAME 3 SEE DETAIL 19/S5.04.
 - INDICATES K-FRAME 4 SEE DETAIL 13/S5.03.
 - INDICATES K-FRAME 5 SEE DETAIL 15/S5.03.
 - INDICATES BRACE 1 SEE DETAIL 26/S5.02.
 - PRE-ENGINEERED ALUMINUM CANOPY COVER PER ARCH'L. DESIGN OF COVER TO BE UNDER THE SUPERVISION OF A TEXAS PROFESSIONAL ENGINEER.
 - 8" CMU WALL IS A NOMINAL DIMENSION. ACTUAL WIDTH IS 7 5/8".



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Project Architect: David Monreal, AIA
Drawn By: JP
Job No.: 22226
Sheet:

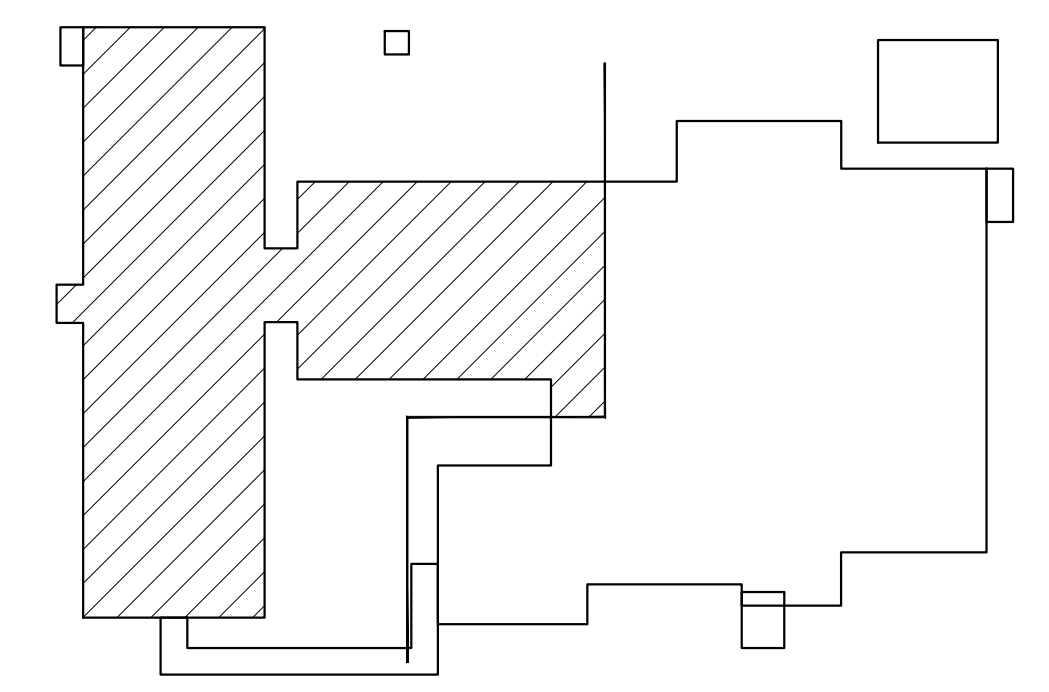
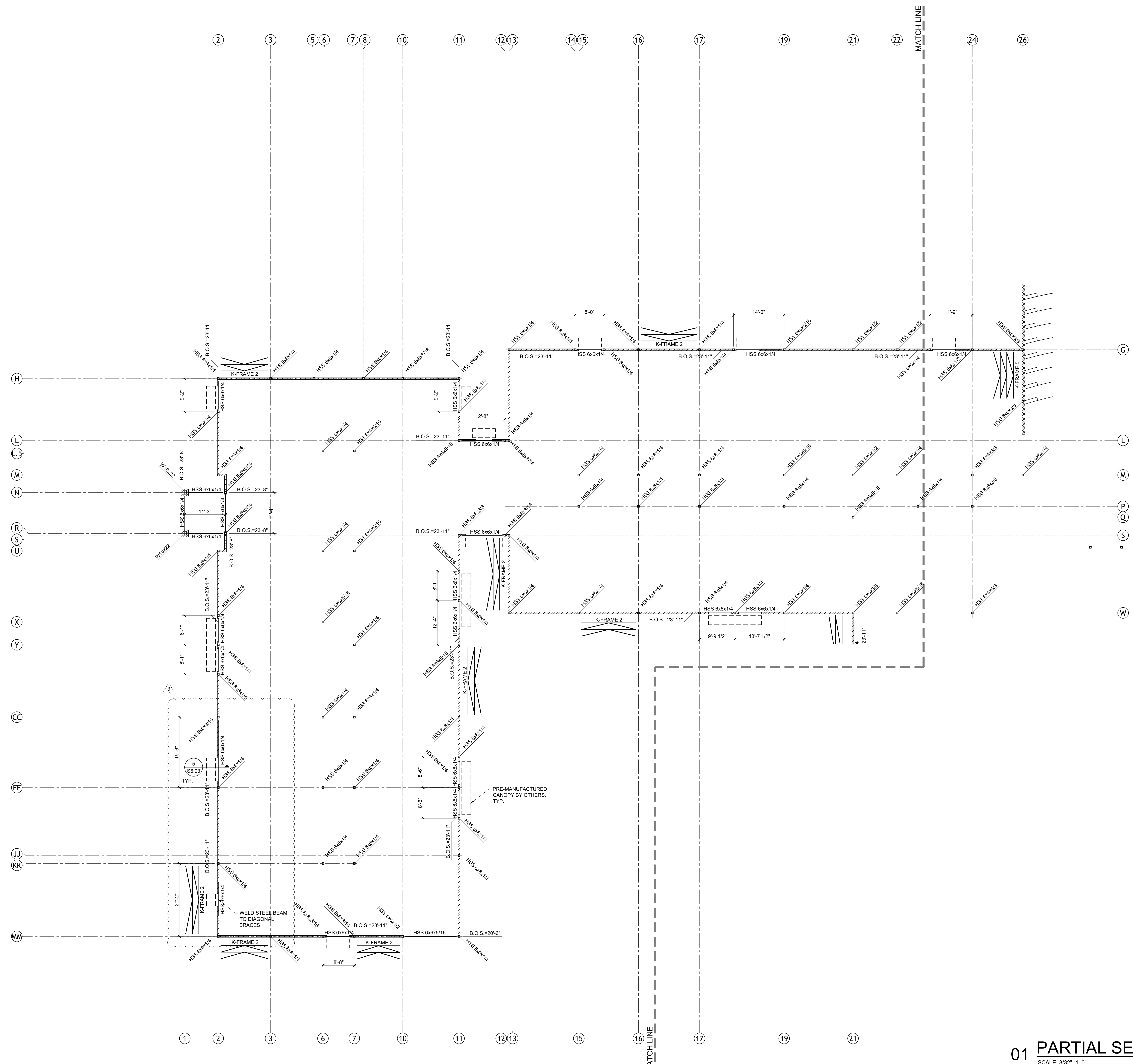
01 PARTIAL FIRST FLOOR WALL LAYOUT PLAN
SCALE: 3/32"=1'-0"

S3.02

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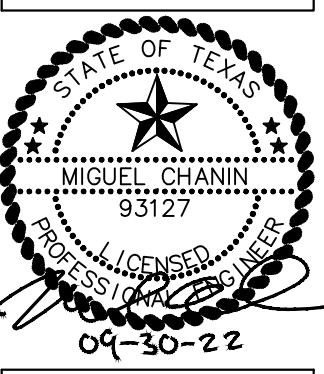
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KEY PLAN

- WALL LAYOUT NOTES:**
- IF ANY DISCREPANCIES ARE FOUND BETWEEN THESE DRAWINGS AND THE ARCHITECTURAL DRAWINGS THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AND ENGINEER BEFORE COMMENCING CONSTRUCTION.
 - FOR TYPICAL METAL STUD WALL CONSTRUCTION SEE SHEET S5.02.
 - FOR TYPICAL CMU WALL CONSTRUCTION SEE SHEET S5.03.
 - INDICATES WALL FRAMED WITH 600S162-54 (50 KSI) METAL STUDS AT 16" O.C., U.N.O.
 - INDICATES WALL FRAMED WITH 800S162-54 (50 KSI) METAL STUDS AT 16" O.C., U.N.O.
 - INDICATES WALL FRAMED WITH 1000S200-54 (50 KSI) METAL STUDS AT 16" O.C., U.N.O.
 - INDICATES EXTERIOR 8" CMU WALL WITH #5 (V) AT 24" O.C., AND #5 (H) AT 8'-0" O.C., U.N.O.
 - FOR SPECIAL INSPECTION REQUIREMENTS SEE GENERAL NOTES.
 - ALL TOP OF WALLS FROM FINISH FLOOR ELEVATION 0'-0".
 - SEE ARCHITECTURAL PLANS FOR EXACT LOCATION, LENGTH, AND HEIGHT OF ALL OPENINGS IN WALLS.
 - INDICATES LINTEL, SEE DETAIL 8/S5.03.
 - FOR CONTROL JOINT LOCATIONS, SEE ARCHITECTURAL DRAWINGS.
 - INDICATES K-FRAME 1 SEE DETAIL 10/S5.04.
 - INDICATES K-FRAME 2 SEE DETAIL 17/S5.04.
 - INDICATES K-FRAME 3 SEE DETAIL 19/S5.04.
 - INDICATES K-FRAME 4 SEE DETAIL 13/S5.03.
 - INDICATES K-FRAME 5 SEE DETAIL 15/S5.03.
 - INDICATES BRACE 1 SEE DETAIL 26/S5.02.
 - PRE-ENGINEERED ALUMINUM CANOPY COVER PER ARCH'L. DESIGN OF COVER TO BE UNDER THE SUPERVISION OF A TEXAS PROFESSIONAL ENGINEER.
 - 8" CMU WALL IS A NOMINAL DIMENSION, ACTUAL WIDTH IS 7 5/8".

01 PARTIAL SECOND FLOOR WALL LAYOUT PLAN
SCALE: 3/32"=1'-0"



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Job No.: 22226
Sheet: 22226

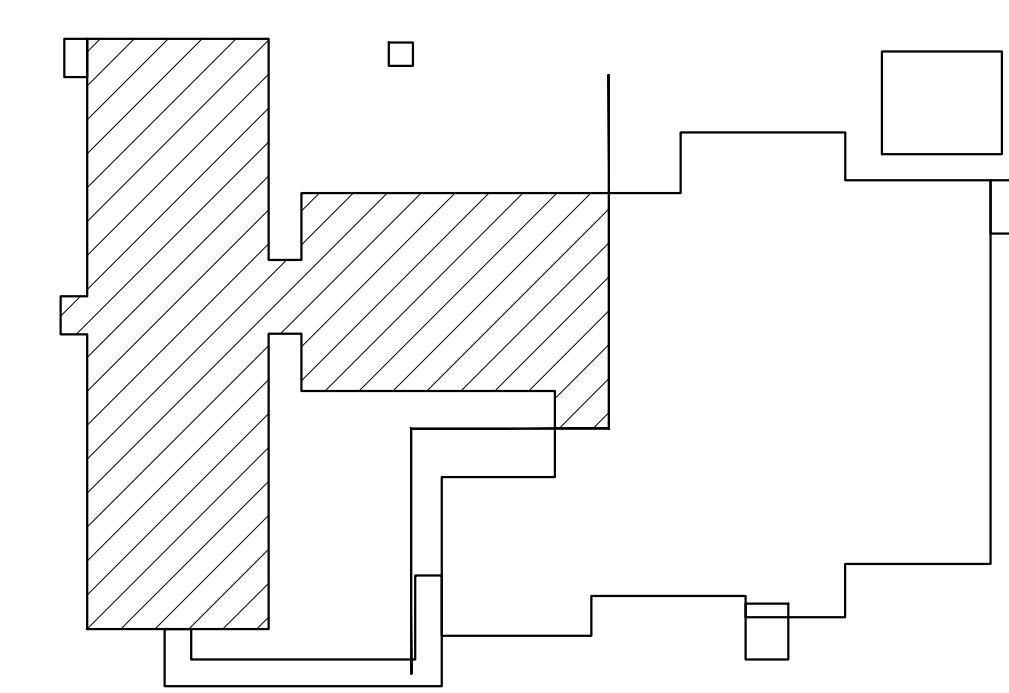
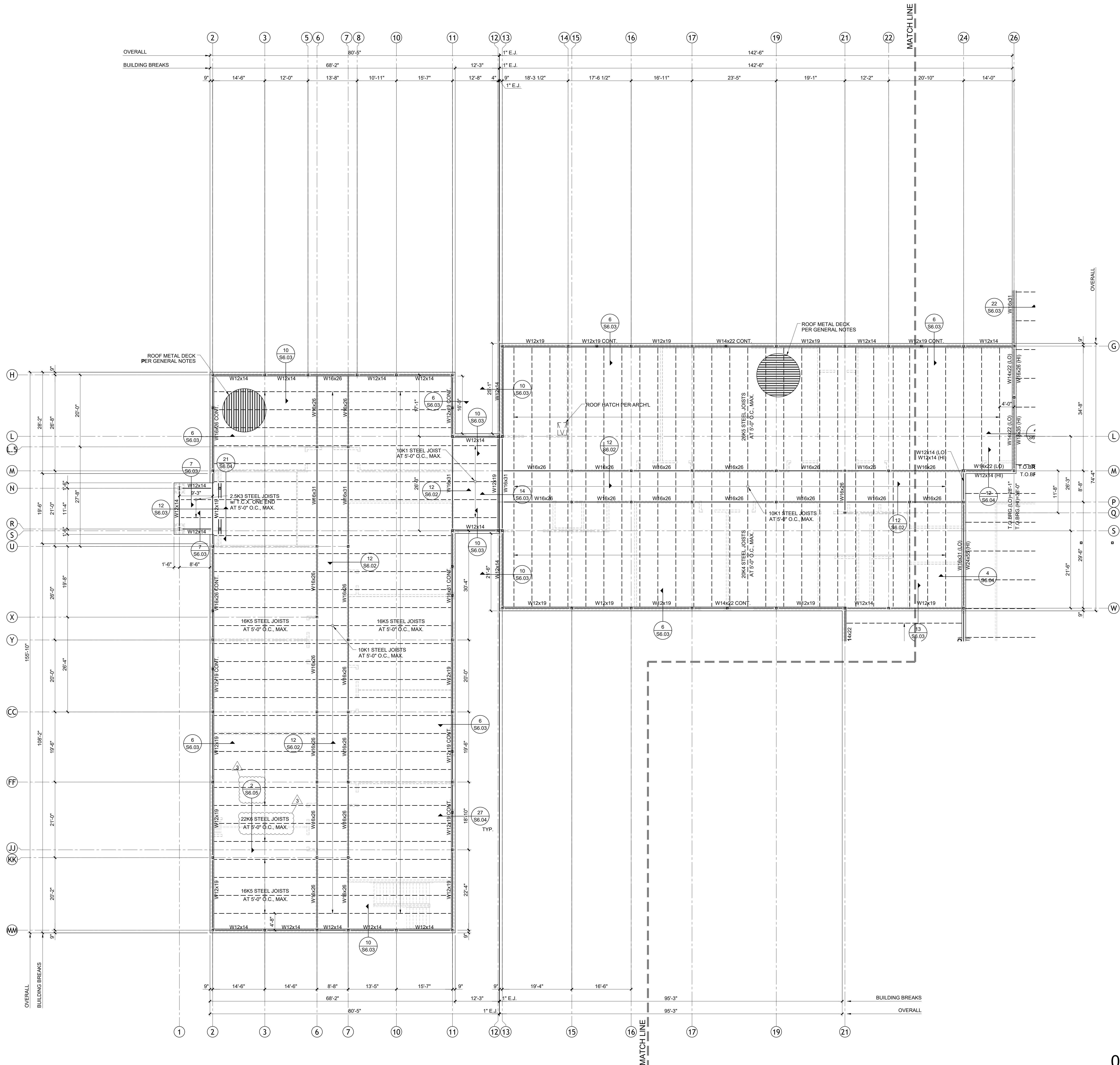
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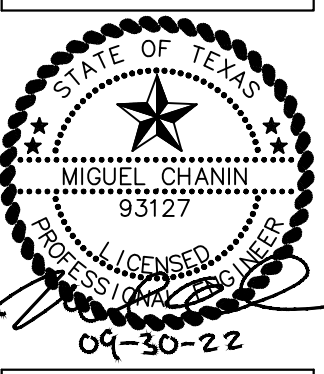
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KEY PLAN

FRAMING NOTES:

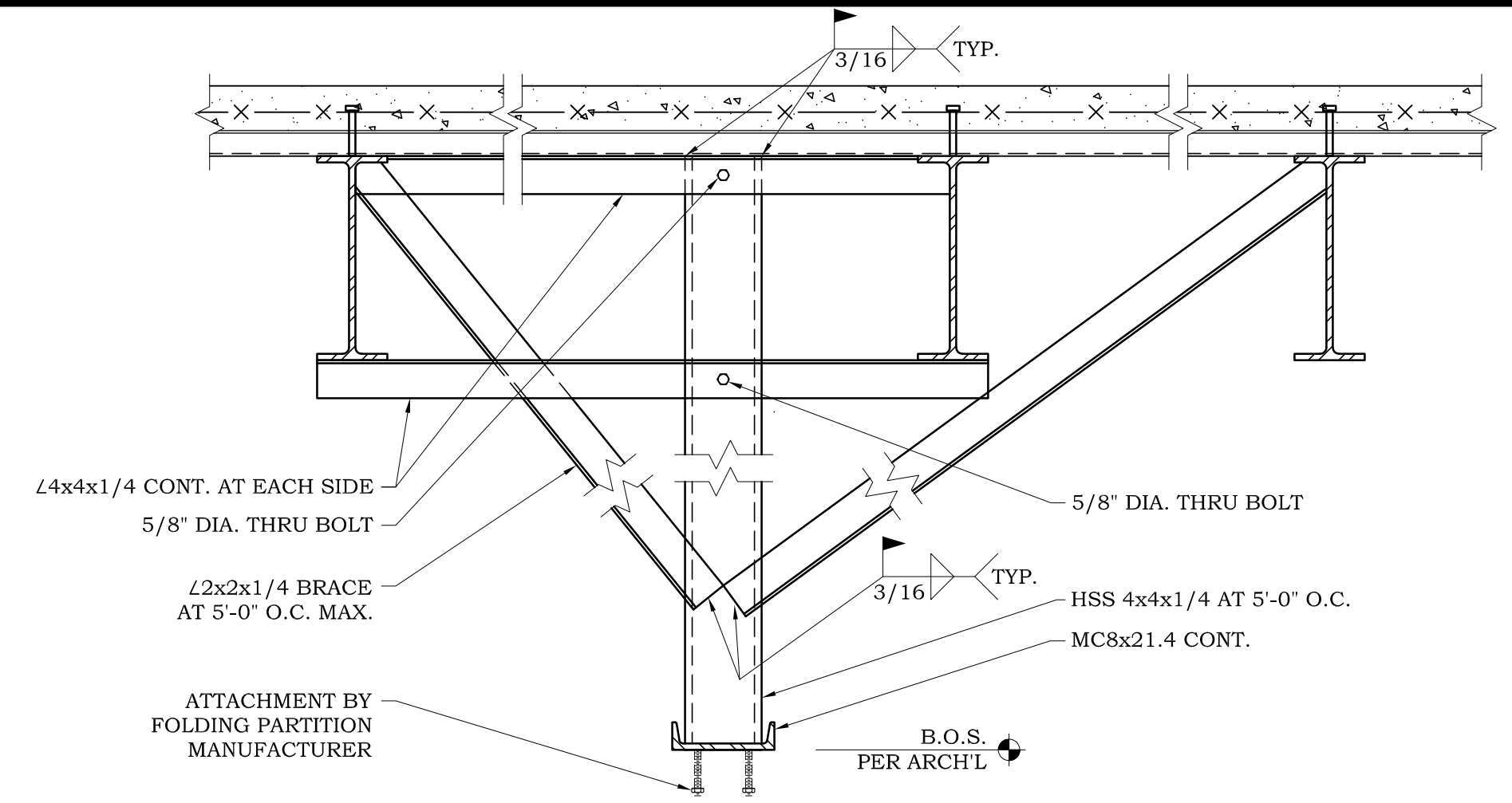
- CONTRACTOR TO VERIFY ALL DIMENSIONS WITH ARCHITECTURAL PLANS BEFORE COMMENCING WORK.
- REFER TO ARCHITECTURAL DRAWINGS FOR ANY ADDITIONAL DIMENSIONS.
- TOP OF BEARING AT ROOF FRAMING SHALL BE 25'-1" U.O.
- REFER TO ARCHL PLANS FOR ROOF OVERHANG DIMENSION.
- REFER TO WALL LAYOUT PLANS, SHEETS 3.05, 3.06 FOR ALL COLUMN SIZES.
- JOIST MANUFACTURER TO PROVIDE ADEQUATE BRIDGING FOR JOISTS AS REQUIRED BY S.J.I.
- STEEL FABRICATOR TO COORDINATE EXACT JOIST SPACING, STEEL JOIST LOCATIONS MAY BE ADJUSTED IN ORDER TO AVOID CONFLICTING STRUCTURAL MEMBERS AND CONDITIONS (SUCH AS STUB COLUMNS OR CONNECTIONS) AND IN ORDER TO ACHIEVE PROPER BEARING, ADD JOISTS AS NEEDED TO NOT EXCEED MAXIMUM SPACING SHOWN ON DRAWINGS.
- CONTRACTOR TO COORDINATE ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SUPPORTED BY THE STRUCTURE WITH THE STRUCTURE MANUFACTURER.
- CONTRACTOR TO COORDINATE EXACT LOCATION AND SIZE OF ANY AND ALL ROOF HATCHES WITH ARCHL DRAWINGS.
- REFER TO M.E.P. DRAWINGS FOR ANY HOUSEKEEPING PADS AT MECHANICAL ROOMS.
- ▶ INDICATES MOMENT CONNECTION. REFER TO DETAIL 13/SS.04 AND 14/SS.04.



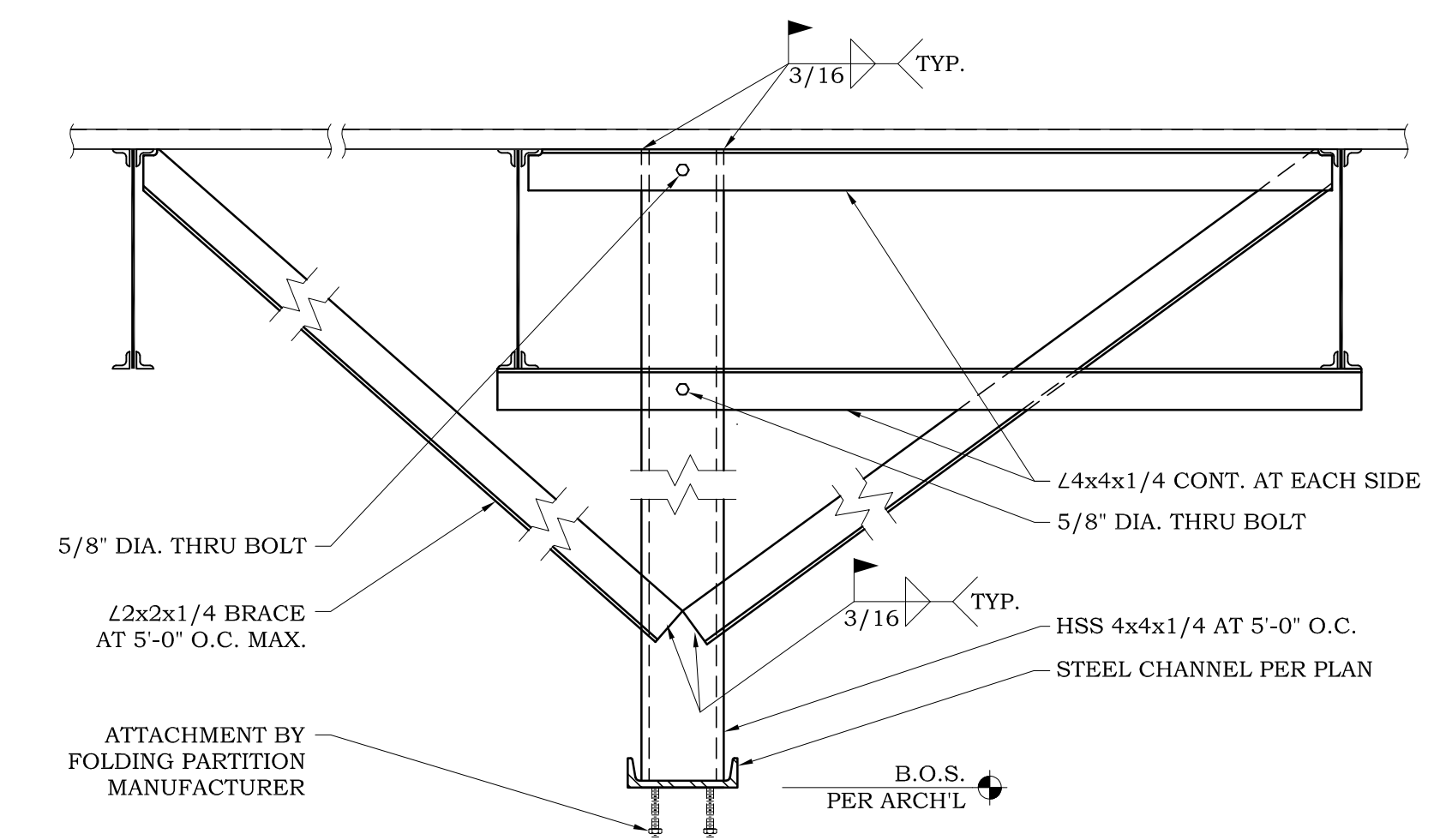
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Interior Designers
Date: SEP. 08, 2022
Scale: As Noted
Project Architect: David Monreal, AIA
Drawn By: jP
Job No.: 22226
Sheet: 01

01 PARTIAL ROOF FRAMING PLAN
SCALE: 3/32"=1'-0"

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| | | | | | | | | | |
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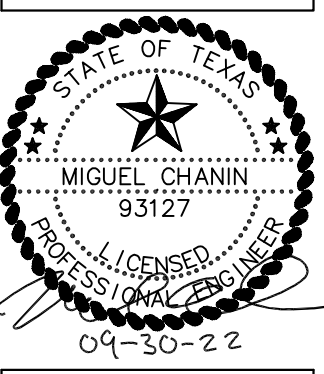
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|----------|----|----------|----|----------|----|----------|----|--------------------------|---|
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|----------|----|----------|----|----------|----|----------|----|--------------------------|---|

| | | | | | | | | | | | |
|----------|----|----------|----|----------|----|----------|----|----------|---|----------|---|
| NOT USED | 28 | NOT USED | 23 | NOT USED | 18 | NOT USED | 13 | NOT USED | 8 | NOT USED | 3 |
|----------|----|----------|----|----------|----|----------|----|----------|---|----------|---|

| | | | | | | | | | | | |
|----------|----|----------|----|----------|----|----------|----|----------|---|----------|---|
| NOT USED | 29 | NOT USED | 24 | NOT USED | 19 | NOT USED | 14 | NOT USED | 9 | NOT USED | 4 |
|----------|----|----------|----|----------|----|----------|----|----------|---|----------|---|

| | | | | | | | | | | | |
|----------|----|----------|----|----------|----|----------|----|----------|----|----------|---|
| NOT USED | 30 | NOT USED | 25 | NOT USED | 20 | NOT USED | 15 | NOT USED | 10 | NOT USED | 5 |
|----------|----|----------|----|----------|----|----------|----|----------|----|----------|---|

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 Project Architect: David Monreal, AIA
 Drawn By: JP
 Job No: 22226
 Sheet: 3

S6.05



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September 30, 2022
UTRGV/ECISD Early College High School

ADDENDUM NO. 3

A. PURPOSE AND INTENT

This addendum is issued for the purpose of modifying the plans for the project referenced above. This addendum shall become part of the contract and all contractors shall be bound by its content. All aspects of the specifications and drawings not covered herein shall remain the same. The General Conditions and the Special Conditions of the specifications shall govern all parts of the work and apply in full force to this addendum.

B. SCOPE

I. Specifications

1. Section 260924 Lighting Controls:
 - a) Extra Materials: Provide 5 of each type of batteries.
2. Section 267230 School Intercom:
 - a) 2.1/A/B Manufacturers: Valcom is the only approved; No Substitutions.
3. Section 267240 Intrusion and Access Control:
 - a) Revise 6.3/12 as follows: MANUFACTURER PART # Mercury LP1502
 - b) Omit line item 6.11.
 - c) Clarification: Provide MClass unified system power supplies LifeSafety Power FPO series.
4. Section 267260 Cafetorium Integrated Audio Video Systems:
 - a) Omit the following parts:
 - i. DMPS3-4K-150
 - ii. DM-TX-200-C-2G-B-T
 - b) Add the following parts:
 - i. 1 of DM-MD6x4
 - ii. 1 of DSP-1281
 - iii. 2 of DM-RMC-4KZ-100-C

- iv. 3 of HD-MD-4K-300-2G-B
- v. 2 of TSW-760-B-S
- vi. 6 of Bose DS 40F

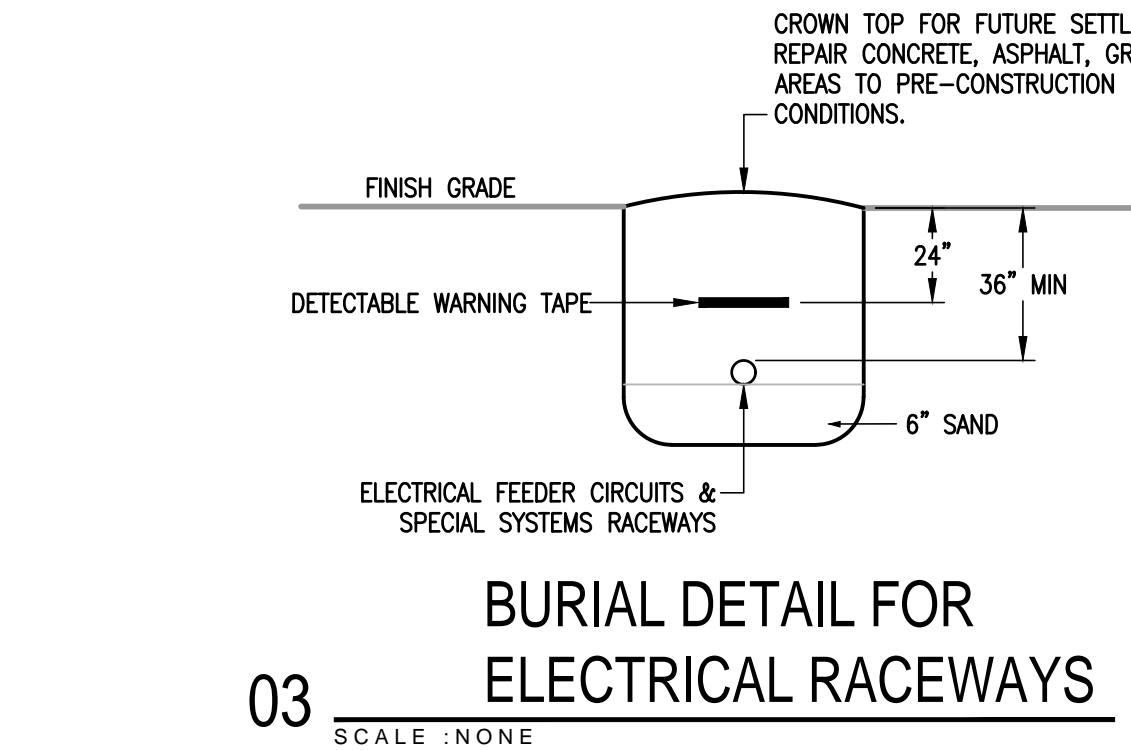
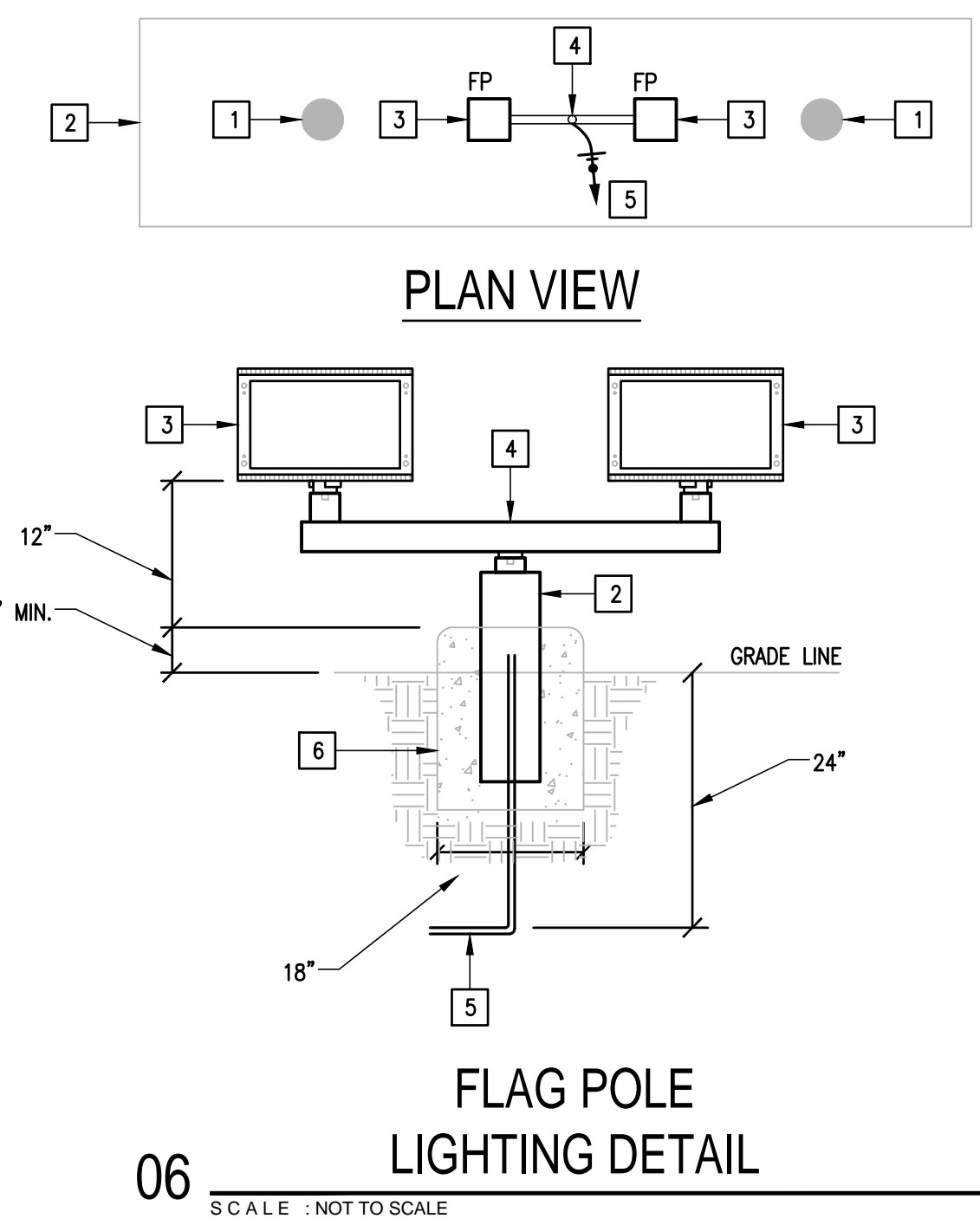
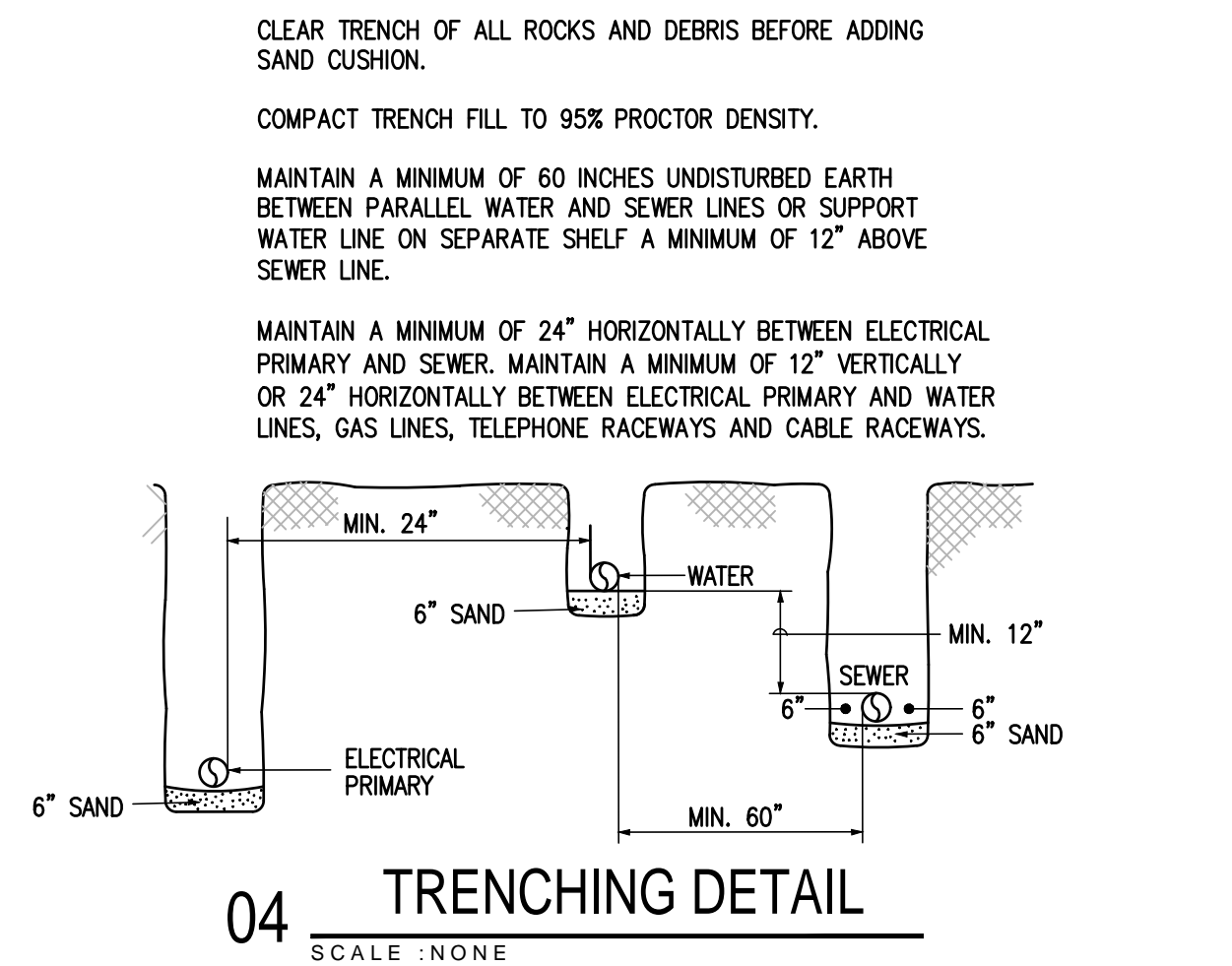
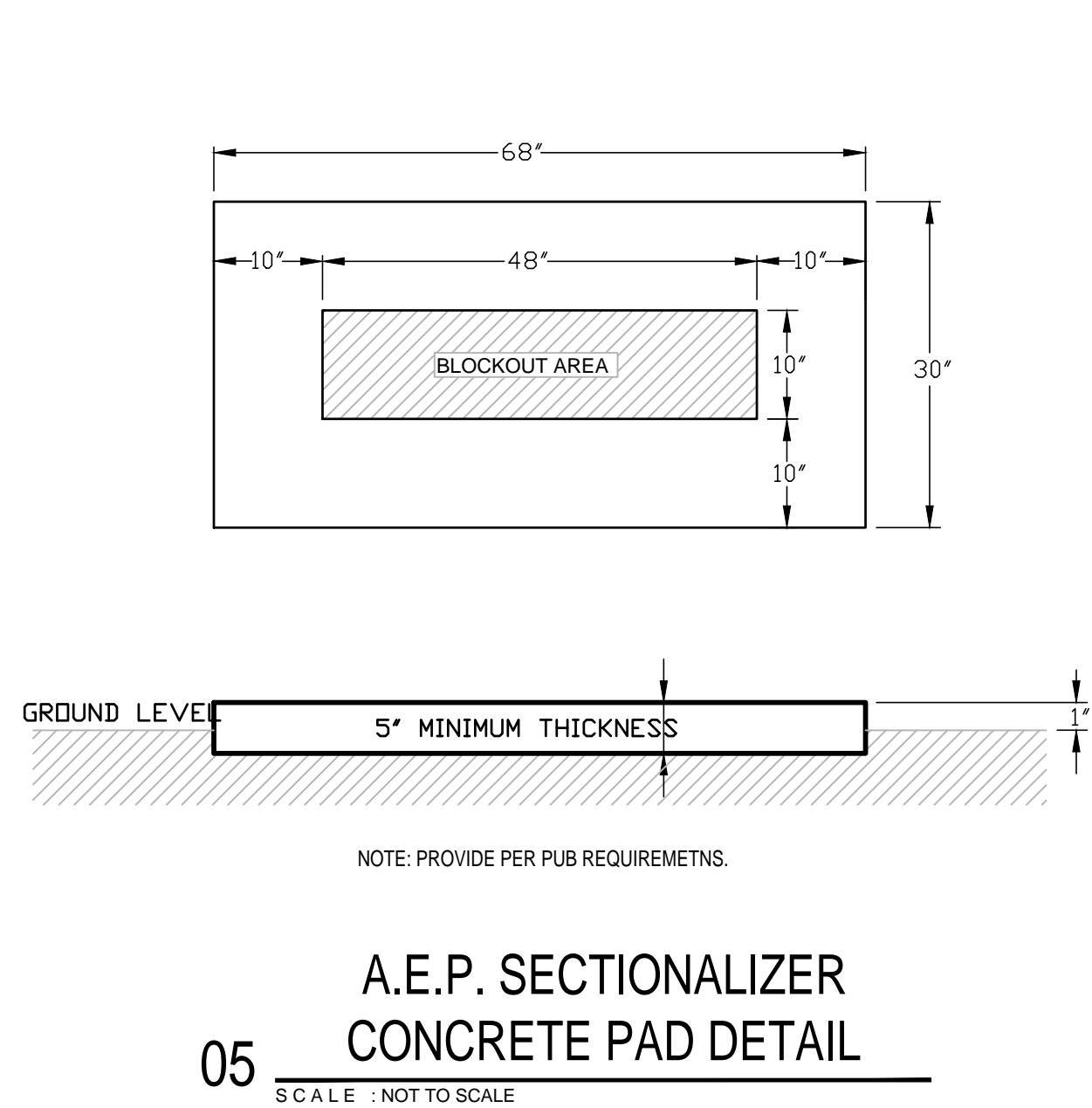
II. Drawings

1. Sheet ES1.01:
 - a) Revised gate designations. See attached sheet.
2. Sheet M4.03:
 - a) Central Plant Chilled Water Schematic Diagram was revised. Bypass line increased in size from 6"Ø to 8"Ø. See attached sheet.
3. Sheet E3.01:
 - a) Revised lighting plan. See attached sheet.
4. Sheet E3.02:
 - a) Serving Line 156: Added 3 light fixtures type "A4" and lighting controls. See attached sheet.
5. Sheet E3.03:
 - a) Corridor 212A Stairwell: Adjust 2 light fixtures type "A2" & "A2E" 4'-0" plan south towards exterior wall.
6. Sheet E3.04:
 - a) Revised lighting plan and keyed notes. See attached sheet.
7. Sheet E4.01:
 - a) Revised electrical plan. See attached sheet.
8. Sheet E4.03:
 - a) Revised electrical plan. See attached sheet.
9. Sheet E4.04:
 - a) Revised electrical plan. See attached sheet.
10. Sheet E4.05:
 - a) Revised special systems plan. See attached sheet.

11. Sheet E4.06:
- a) Gathering Area 154: Provide a door access system power supply.
 - b) UTRGV Office Cluster 175: Provide a door access system power supply.
 - c) Kitchen 157: Provide call audiovisual notification device ceiling mounted in a centralized location. Device shall be interfaced with gate #4 pedestal door station for kitchen deliveries. Provide required cabling and components for a fully operational system.
12. Sheet E5.01:
- a) Revised equipment connection schedule. See attached sheet.
13. Sheet E6.01:
- a) Luminaire Schedule:
 - i. Type "K": Provide same as type "U" except surface mounted.
14. Sheet E7.01:
- a) Revised electrical riser diagram and feeder schedule. See attached sheet.
15. Sheet E8.01:
- a) Panel "MK": Provide Taylor Phase Guard/Time Mark protection and shunt-trip breaker for AHU-7.
16. Sheet E8.02:
- a) Revised panel schedules. See attached sheet.
17. Sheet E9.03:
- a) Revised slide gate operator detail. See attached sheet.



09/30/2022

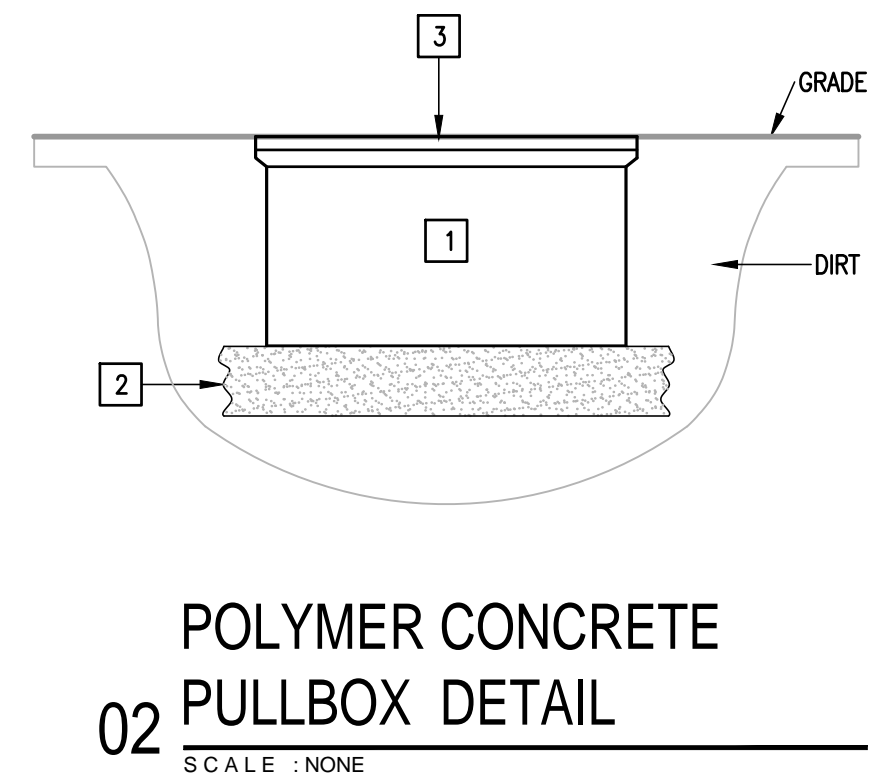


ELECTRICAL KEYED NOTES:

- EXISTING ELECTRIC UTILITY OVERHEAD POWER LINES TO REMAIN.
- EXISTING ELECTRIC UTILITY POWER POLE.
- PROPOSED ELECTRIC UTILITY RISER POLE.
- PROPOSED ELECTRIC UTILITY UNDERGROUND PRIMARY.
- PROVIDE ELECTRIC UTILITY PAD MOUNT TRANSFORMER CONCRETE PAD - SEE DETAIL.
- PROVIDE COLUMN LIGHT AND CONCRETE FOOTING AS SCHEDULED - SEE DETAIL. SWITCH LIGHTS THROUGH LIGHTING CONTACTOR LC1/LC2; BRANCH CIRCUIT: 1" - 2#10 & #10G.
- PROVIDE ELECTRIC UTILITY SECTIONALIZER CONCRETE PAD.
- PROVIDE NEW UNDERGROUND SECONDARY ELECTRIC LINE.
- PROVIDE NEW ELECTRIC UTILITY SERVICE METER.
- PROVIDE NEW FEEDER TO NEW PANELBOARDS/DISCONNECTS.
- PROVIDE 4" TELEPHONE RACEWAY WITH PULLWIRE TO EXISTING TELEPHONE PEDESTAL. ROUTE TO BUILDING & TERMINATE IN M.D.F. ROOM. PRIOR TO TRENCHING COORDINATE TERMINATION POINT WITH UTILITY COMPANY.
- PROVIDE 4" GUY RACEWAY WITH PULLWIRE. CAP BELOW GRADE AT PROPERTY LINE & ROUTE TO BUILDING & TERMINATE IN M.D.F. ROOM. PRIOR TO TRENCHING COORDINATE TERMINATION POINT WITH UTILITY COMPANY.
- SMITH EXTERIOR POLE LIGHTS THROUGH LIGHTING CONTACTOR LC1/LC2; BRANCH CIRCUIT: 1" - 2#8 & #10G. SEE CORRESPONDING PANEL SCHEDULE.
- PROVIDE 1-1/2" RACEWAY WITH PULLWIRE - (ELEVATOR SERVICE ALERT PANEL).
- PROVIDE 1-1/2" RACEWAY WITH PULLWIRE (CCTV CAMERA), DATA CABLE AND CONNECTORS BY OWNER. CCTV CAMERA PROVIDED BY OWNER TO BE AT 20'-0" FROM POLE BASE.
- PROVIDE 1-1/2" RACEWAY WITH PULLWIRE - (INTERCEPTOR SERVICE ALERT PANEL).
- ACCESS CONTROL PEDESTAL. SEE DETAIL 02/E9.03.
- PROVIDE POLE LIGHTS AS SCHEDULED - TYPICAL. SEE DETAIL.
- PROVIDE THE FOLLOWING:
1-2" RACEWAY WITH PULLWIRE (FIRE ALARM).
1-2" RACEWAY WITH PULLWIRE (SPARE).
1-1" RACEWAY WITH PULLWIRE (INTRUSION).
- PROVIDE FLAG POLE LIGHTING - SEE DETAIL 5/E9.03. SWITCH LIGHTS THROUGH LIGHTING CONTACTOR LC1/LC2; BRANCH CIRCUIT: 1" - 2#10 & #10G.
- PROVIDE BOLLARD LIGHT AND CONCRETE FOOTING AS SCHEDULED - SEE DETAIL. SWITCH LIGHTS THROUGH LIGHTING CONTACTOR LC1/LC2; BRANCH CIRCUIT: 1" - 2#10 & #10G.
- CONNECT ELECTRIC DRIVE UNIT (208V, 16); BRANCH CIRCUIT: 2" - 3#4 & #8G. PROVIDE 3/4" X 10" COPPER CLAD GROUND ROD WITHIN 3'-0" OF GATE OPERATOR. COORDINATE EXACT LOCATION OF COMPONENTS WITH ARCHITECT PRIOR TO ANY ROUGH-IN. GATE CONTRACTOR SHALL PROVIDE ALL INTERNAL WIRING INCLUDING SAFETY LOOPS & PHOTO EYES. SEE DETAIL ON SHEET E9.03.
- ACCESS CONTROL PEDESTAL AND VIDEO DOOR STATION. SEE DETAIL 02/E9.03.
- PROPOSED LOCATION OF RELOCATED UTILITY POLE AND OVERHEAD SERVICE LINES. COORDINATE WITH ASP.
- VIA EMERGENCY LIGHTING INVERTER.

GENERAL NOTES:

- COORDINATE WORK AMONG ALL DISCIPLINES. IT IS NOT THE INTENT OF THESE DOCUMENTS TO DICTATE WHO MUST DO THE WORK. ALL WORK SHOWN IS THE RESPONSIBILITY OF THE (PRIME) CONTRACTOR.
- FIELD VERIFY PROJECT SITE EXISTING CONDITIONS AND ELEVATIONS PRIOR TO BEGINNING ANY WORK.
- COORDINATE ELECTRICAL AND PLUMBING WITH GENERAL CONSTRUCTION.
- PHASING AND SEQUENCE OF CONSTRUCTION SHALL BE PER ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.
- FIELD VERIFY/SPOT EXACT LOCATIONS AND EXISTING CONDITIONS OF EXISTING PLUMBING AND ELECTRICAL. IT IS THE INTENT OF THESE PLANS TO PROVIDE A COMPLETE AND WORKABLE SYSTEMS. SHOULD BIDDER FIND OMISSIONS OR DISCREPANCIES IN THE PLANS, BIDDER SHALL NOTIFY THE ENGINEER PRIOR TO THE BID DATE AND A WRITTEN CLARIFICATION WILL BE ISSUED.
- DAMAGED ITEMS SHALL BE REPAIRED AT NO ADDITIONAL COST TO OWNER. CONTRACTORS ARE REQUIRED TO SEARCH AND INVESTIGATE FOR EXISTING UTILITIES BEFORE EXCAVATING.
- ALL MATERIALS AND LABOR, WHETHER SPECIFICALLY INDICATED ON PLANS OR NOT, WHICH ARE NECESSARY FOR THE PROPER INSTALLATION AND FUNCTION OF THE SYSTEM SHALL BE FURNISHED BY THIS CONTRACTOR. INCLUDE ALL COSTS OF CHANGES, IF/AS REQUIRED IN BID PROPOSAL.
- PROVIDE J-BOXES (POLYMER CONCRETE) AS REQUIRED FOR PULL WIRING.
- ELECTRICAL WIRING SHALL NOT BE SPLICED BELOW GRADE.
- PERFORM ALL WORK PER LATEST VERSION OF NATIONAL ELECTRICAL CODE, AND APPLICABLE LOCAL CODES AND ORDINANCES UNLESS DRAWINGS OR SPECIFICATIONS HAVE MORE STRINGENT REQUIREMENTS.
- CONTRACTOR IS RESPONSIBLE FOR ALL PERMITS AND FEES ASSOCIATED WITH PROJECT, INCLUDING FEES FOR INSPECTIONS, APPLICATIONS, AND PROVISION OF NEW SERVICES.
- CONTRACTOR WHO WILL ACTUALLY PERFORM WORK MUST APPLY FOR ALL REQUIRED PERMITS.
- NOTIFY ENGINEER OF ANY ASPECTS OF DESIGN WHICH ARE THOUGHT TO BE IN NONCOMPLIANCE WITH APPLICABLE CODES.
- COORDINATE ALL WORK WITH OTHER TRADES; COORDINATE SCHEDULE OF WORK WITH ALL SUB-CONTRACTORS TO ACHIEVE SMOOTH FLOW OF CONSTRUCTION.
- SEAL AROUND ELECTRICAL RACEWAYS AT ALL WALLS, A/C ROOMS AND WALL LOUVER PENETRATIONS WITH FIREPROOF CAULKING. RE: SPECS. PROVIDE FLASHING AROUND PENETRATION, BOTH INSIDE AND OUTSIDE, TO PROVIDE FINISHED LOOK.
- TIME OR MONEY ALLOWANCES WILL NOT BE MADE TO ACCOMMODATE UTILITY CONFLICTS THAT CAN BE REASONABLY RESOLVED BY COORDINATION DURING SHOP DRAWING PHASE.
- CONTRACTOR SHALL REVIEW COMPLETE DOCUMENTS PRIOR TO SUBMITTAL OF PROPOSAL TO GAIN COMPLETE UNDERSTANDING OF PROJECT SCOPE, WORK BY OTHERS, AND ELECTRICAL WORK ASSOCIATED WITH OTHER DISCIPLINES.
- MAINTAIN MANUFACTURER RECOMMENDED CLEARANCE AROUND ALL EQUIPMENT.
- AFFIX ID TAGS TO ALL DIVISION 28 EQUIPMENT.
- CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH MECHANICAL AND PLUMBING CONTRACTOR REGARDING EQUIPMENT SIZES AND TYPES OF ELECTRICAL INTERFACE EQUIPMENT REQUIRED.
- FIELD VERIFY ALL CONDITIONS AND MEASURE DIMENSIONS WITHIN THE BUILDING PRIOR TO ORDERING EQUIPMENT AND/OR PROCEEDING WITH INSTALLATION.
- ALL EQUIPMENT SHALL BE FACTORY TESTED, AND CONTRACTOR SHALL VERIFY THEIR CONDITION PRIOR TO INSTALLATION. CONTRACTOR IS RESPONSIBLE FOR EQUIPMENT DAMAGED DURING MOVING AND INSTALLATION.
- EQUIPMENT FOUND DEFECTIVE PRIOR TO FINAL ACCEPTANCE SHALL BE REPLACED AT NO COST TO OWNER.
- WORK TO BE DONE UNDER ALLOWANCES BECOMES AN INTEGRAL PART OF THE PROJECT AND RESPONSIBILITY OF CONTRACTOR ONCE ALLOWANCE IS APPROVED.
- SLEEVE ALL EXTERIOR WALL PENETRATIONS.
- CONTRACTOR SHALL NOT PROCEED WITH ANY WORK INVOLVING A CHANGE IN PROJECT SCOPE OR COST WITHOUT FIRST HAVING OBTAINED ENGINEER'S APPROVAL IN WRITING. UNLESS ENGINEER HAS AGREED TO SUCH CHANGE PRIOR TO IT BEING DONE, AND HAS AGREED THAT AN INCREASE IN COST ASSOCIATED WITH SUCH CHANGE IS WARRANTED, CONTRACTOR WILL NOT BE REIMBURSED FOR SUCH CHANGE.

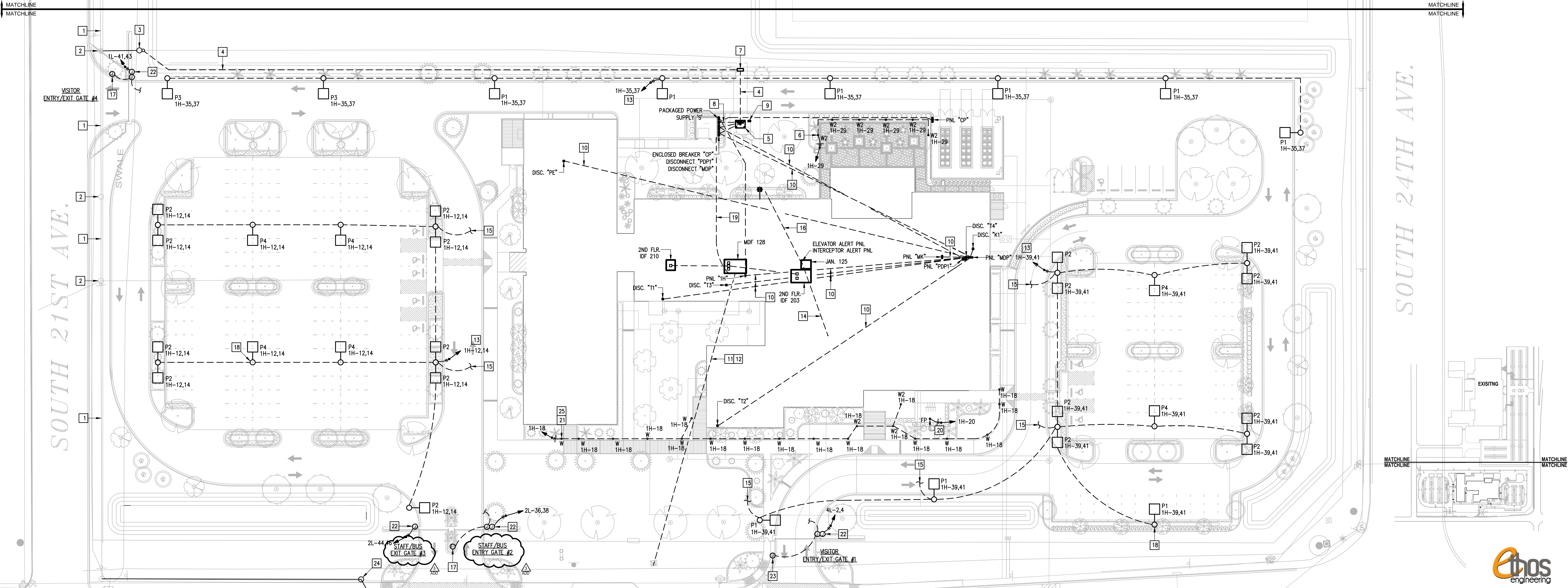


KEYED NOTES:

- PROVIDE POLYMER CONCRETE PULL BOX TIER 22 RATED, COMPLYING WITH ANSI/SCTE 77 AND NEC 314.30.
- PROVIDE 8" OF GRAVEL OR CRUSHED ROCK.
- PROVIDE ONE PIECE LOCKING COVER WITH LOGO TIER 22 RATED. INSTALL COVER LEVEL WITH GRADE.

RACEWAYS EMBEDDED IN FOUNDATION GENERAL NOTES:

- RACEWAYS EMBEDDED WITHIN THE SLAB SHALL COMPLY WITH THE FOLLOWING:
- SHALL HAVE A MINIMUM SPACING OF 2".
 - SHALL NOT BE LARGER THAN 1".
 - SHALL NOT BE RUN THROUGH THE SURFACE AREA OF THE FOOTING.
 - SHALL NOT BE CROSSED OVER/UNDER EACH OTHER WITH THE SLAB.
 - SHALL NOT BE TIED TO THE REBAR.
 - SHALL BE A MINIMUM OF 1.5" AWAY FROM SLAB REBAR. IF SPACING CANNOT BE ACCOMPLISHED, IT SHALL BE PROVIDED BELOW GRADE.



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Project Architect: David Monreal, AIA
Drawn By: J.P.
Job No: 22-173
Sheet:



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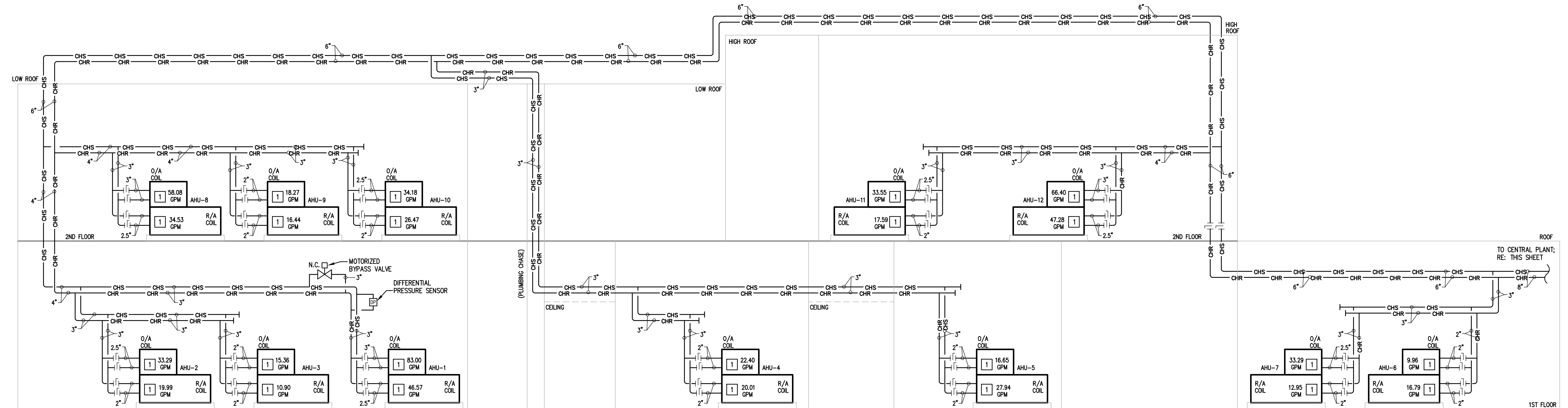
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GENERAL NOTES:

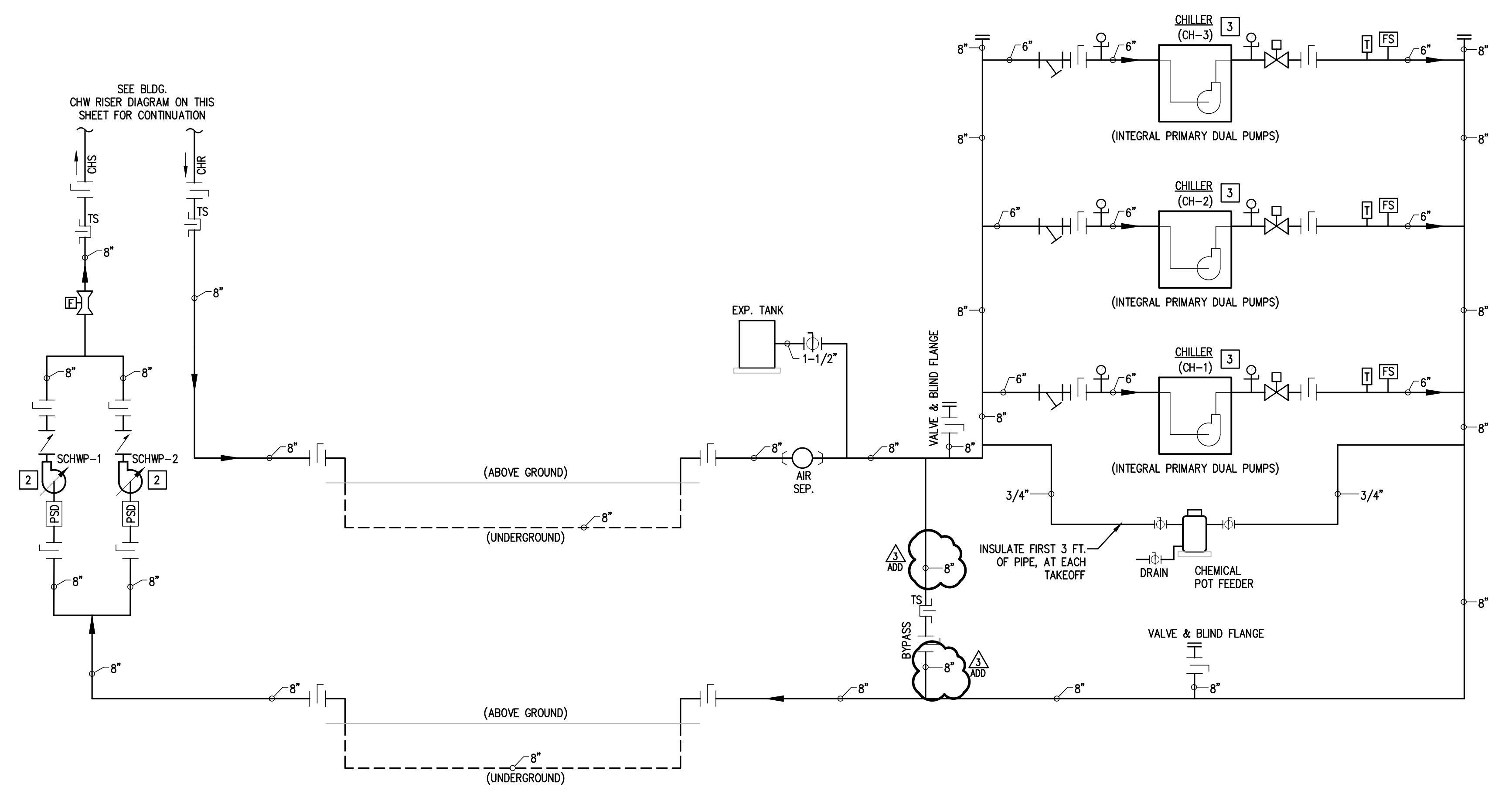
- ALL PIPING WELDS MUST BE WIRE-BRUSHED AND PAINTED A MINIMUM OF 12" ON EITHER SIDE OF WELD PRIOR TO INSULATION.
- CLEAN AND PREPARE SURFACE OF CHILLED WATER PIPING BEFORE INSULATING. APPLY CORROSION COATING TO ALL PIPING. REFER TO SPECIFICATIONS FOR MORE INFORMATION.
- INSULATE PER SPECIFICATIONS ALL PIPING, VALVES, FITTINGS, PUMP BODIES AND COIL SURFACES THAT ARE CAPABLE OF GENERATING CONDENSATION. FIBERGLASS INSULATION WILL NOT BE ALLOWED.
- PRIOR TO INSTALLATION OF EQUIPMENT, VERIFY THAT MANUFACTURER RECOMMENDED AND CODE REQUIRED CLEARANCES ARE AVAILABLE.
- INSTALL PIPES AND DUCTS AS HIGH AS POSSIBLE TO ALLOW MAXIMUM POSSIBLE HEADROOM. MIN. 9' AFF.
- PROVIDE P/T TEST PORT WITHIN 6 INCHES OF EVERY PRESSURE GAGE AND THERMOWELL. SEE PIPING SCHEMATIC FOR LOCATIONS.
- REFER TO HYDRONIC PIPING SCHEMATICS FOR DETAILS.
- FOR ALL PIPING SUPPORTS LOCATED OUTDOORS, PROVIDE THE FOLLOWING:
 - POLYAMINE PRIME COAT OF DEVOE PAINTS, DEVIRAN 201.
 - INTERMEDIATE TOP COAT OF DEVOE PAINTS, DEVIRAN 224HS.
 - TOP COAT OF DEVOE PAINTS, DEVTHANE 379.
- GPM's ARE SHOWN FOR VERIFICATION PURPOSE ONLY. DO NOT USE THIS DATA FOR TAB. IN CASE OF CONFLICT, OR IF FLOW DATA DO NOT MATCH WITH THOSE FOR SCHEDULED EQUIPMENT, USE LARGER OF THE TWO.
- REFER TO SPECIFICATIONS FOR CONTROL COMPONENTS, DEVICES, AND SENSORS TO BE COORDINATED WITH MECHANICAL WORK.
- AT LOWEST POINT IN PIPING ENTERING CHILLER BARRELS, PROVIDE 6" LONG DRAIN NIPPLES AND BALL VALVES FOR DRAINING CHILLER.
- MINIMUM PIPE SIZE SHALL BE 1".

KEYED NOTES:

- PROVIDE 2-WAY CONTROL VALVE AT AHU. REFER TO CHILLED WATER COIL CONNECTION SCHEMATIC WITH 2-WAY VALVE ON DETAIL SHEET.
- REFER TO PUMP DETAIL ON DETAIL SHEET.
- REFER TO CHILLER PIPING CONNECTION DETAIL ON DETAIL SHEET.



BUILDING
01 CHILLED WATER SCHEMATIC DIAGRAM
 SCALE: NOT TO SCALE

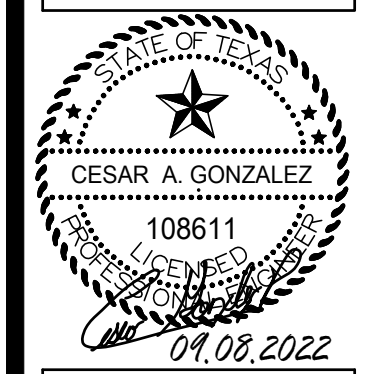


CENTRAL PLANT
02 CHILLED WATER SCHEMATIC DIAGRAM
 SCALE: NOT TO SCALE

LEGEND:

| | | | | | |
|--|-----------------------|--|----------------|--|---------------------------------------|
| | AIR SEPARATOR | | BALL VALVE | | NEW EQUIPMENT |
| | AUTOMATIC VALVE | | WATER METER | | NEW PIPING |
| | MANUAL VALVE | | BLIND FLANGE | | THERMOWELL FOR DDC TEMPERATURE SENSOR |
| | STRAINER | | PUMP | | FLOW SWITCH |
| | FLOW METER | | PUMP WITH VFD | | CHECK VALVE |
| | PUMP SUCTION DIFFUSER | | PRESSURE GAUGE | | THERMOMETER |

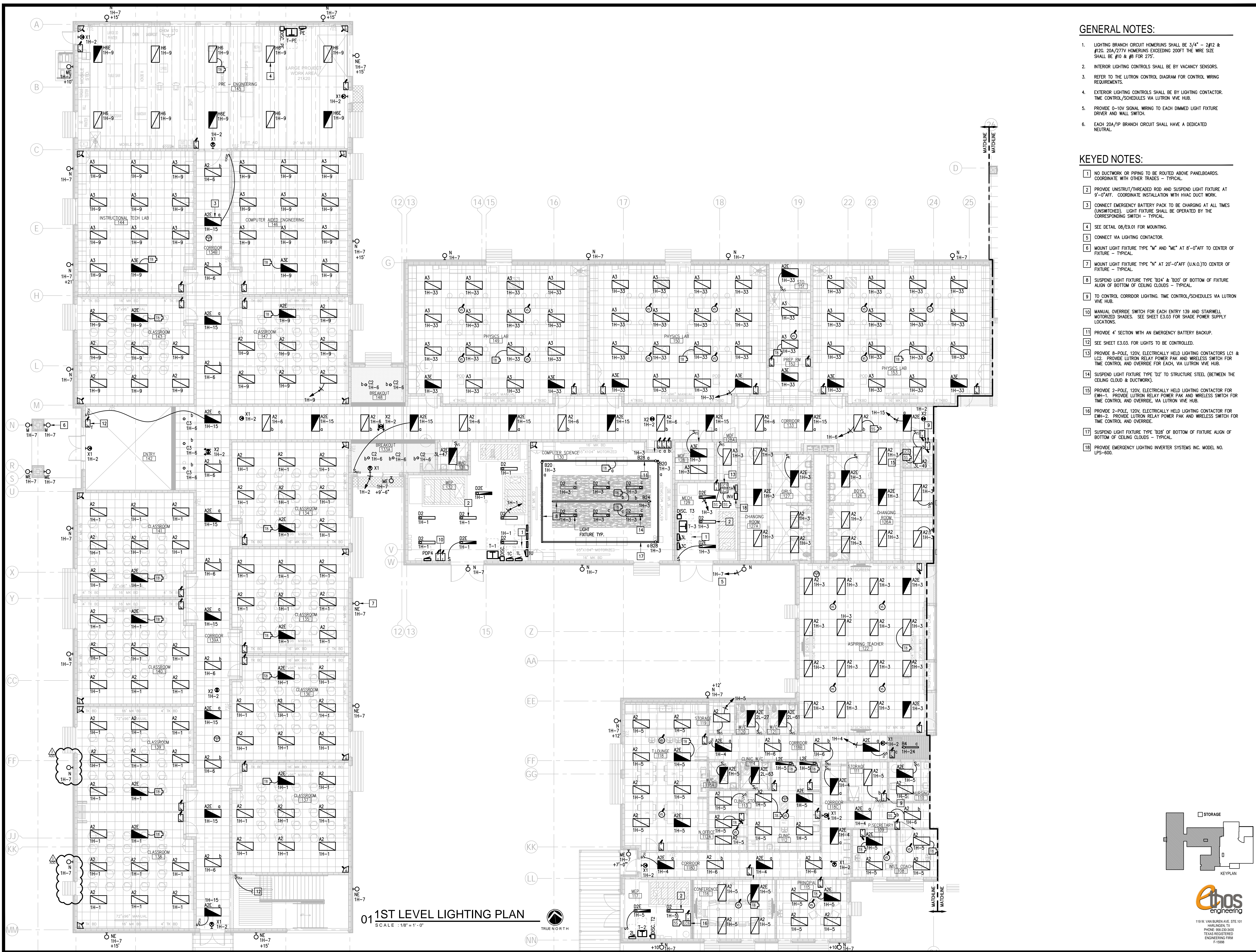
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 Project Architect: David Monreal, AIA
 Drawn By: P.M.
 Job No: 22073
 Sheet: M4.03



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01 1ST LEVEL LIGHTING PLAN
SCALE: 1/8" = 1'-0"

GENERAL NOTES:

1. LIGHTING BRANCH CIRCUIT HOMERUNS SHALL BE 3/4" - 2#12 & #12G. 20A/277V HOMERUNS EXCEEDING 200FT THE WIRE SIZE SHALL BE #10 & #8 FOR 275'.
2. INTERIOR LIGHTING CONTROLS SHALL BE BY VACANCY SENSORS.
3. REFER TO THE LUTRON CONTROL DIAGRAM FOR CONTROL WIRING REQUIREMENTS.
4. EXTERIOR LIGHTING CONTROLS SHALL BE BY LIGHTING CONTACTOR. TIME CONTROL/SCHEDULES VIA LUTRON VIVE HUB.
5. PROVIDE 0-10V SIGNAL WIRING TO EACH DIMMED LIGHT FIXTURE DRIVER AND WALL SWITCH.
6. EACH 20A/1P BRANCH CIRCUIT SHALL HAVE A DEDICATED NEUTRAL.

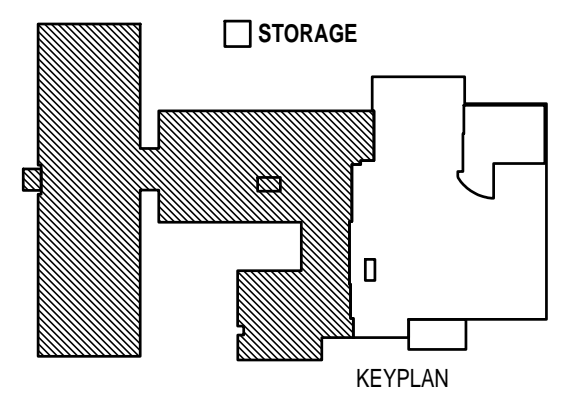
KEYED NOTES:

1. NO DUCTWORK OR PIPING TO BE ROUTED ABOVE PANELBOARDS. COORDINATE WITH OTHER TRADES - TYPICAL.
2. PROVIDE UNSTRUT/THREADED ROD AND SUSPEND LIGHT FIXTURE AT 9'-0" AFF. COORDINATE INSTALLATION WITH HVAC DUCT WORK.
3. CONNECT EMERGENCY BATTERY PACK TO BE CHARGING AT ALL TIMES (UNSWITCHED). LIGHT FIXTURE SHALL BE OPERATED BY THE CORRESPONDING SWITCH - TYPICAL.
4. SEE DETAIL 08/ES.01 FOR MOUNTING.
5. CONNECT VIA LIGHTING CONTACTOR.
6. MOUNT LIGHT FIXTURE TYPE "M" AND "ME" AT 8'-0" AFF TO CENTER OF FIXTURE - TYPICAL.
7. MOUNT LIGHT FIXTURE TYPE "N" AT 20'-0" AFF (U.N.O.) TO CENTER OF FIXTURE - TYPICAL.
8. SUSPEND LIGHT FIXTURE TYPE "B24" & "B20" OF BOTTOM OF FIXTURE ALIGN OF BOTTOM OF CEILING CLOUDS - TYPICAL.
9. TO CONTROL CORRIDOR LIGHTING. TIME CONTROL/SCHEDULES VIA LUTRON VIVE HUB.
10. MANUAL OVERRIDE SWITCH FOR EACH ENTRY 139 AND STAIRWELL MOTORIZED SHADES. SEE SHEET E3.03 FOR SHADE POWER SUPPLY LOCATIONS.
11. PROVIDE 4" SECTION WITH AN EMERGENCY BATTERY BACKUP.
12. SEE SHEET E3.03 FOR LIGHTS TO BE CONTROLLED.
13. PROVIDE 8-POLE, 120V, ELECTRICALLY HELD LIGHTING CONTACTORS LC1 & LC2. PROVIDE LUTRON RELAY POWER PAK AND WIRELESS SWITCH FOR TIME CONTROL AND OVERRIDE FOR EACH, VIA LUTRON VIVE HUB.
14. SUSPEND LIGHT FIXTURE TYPE "D2" TO STRUCTURE STEEL (BETWEEN THE CEILING CLOUD & DUCTWORK).
15. PROVIDE 2-POLE, 120V, ELECTRICALLY HELD LIGHTING CONTACTOR FOR CWH-1. PROVIDE LUTRON RELAY POWER PAK AND WIRELESS SWITCH FOR TIME CONTROL AND OVERRIDE, VIA LUTRON VIVE HUB.
16. PROVIDE 2-POLE, 120V, ELECTRICALLY HELD LIGHTING CONTACTOR FOR EWH-2. PROVIDE LUTRON RELAY POWER PAK AND WIRELESS SWITCH FOR TIME CONTROL AND OVERRIDE.
17. SUSPEND LIGHT FIXTURE TYPE "B28" OF BOTTOM OF FIXTURE ALIGN OF BOTTOM OF CEILING CLOUDS - TYPICAL.
18. PROVIDE EMERGENCY LIGHTING INVERTER SYSTEMS INC. MODEL NO. LPS-600.

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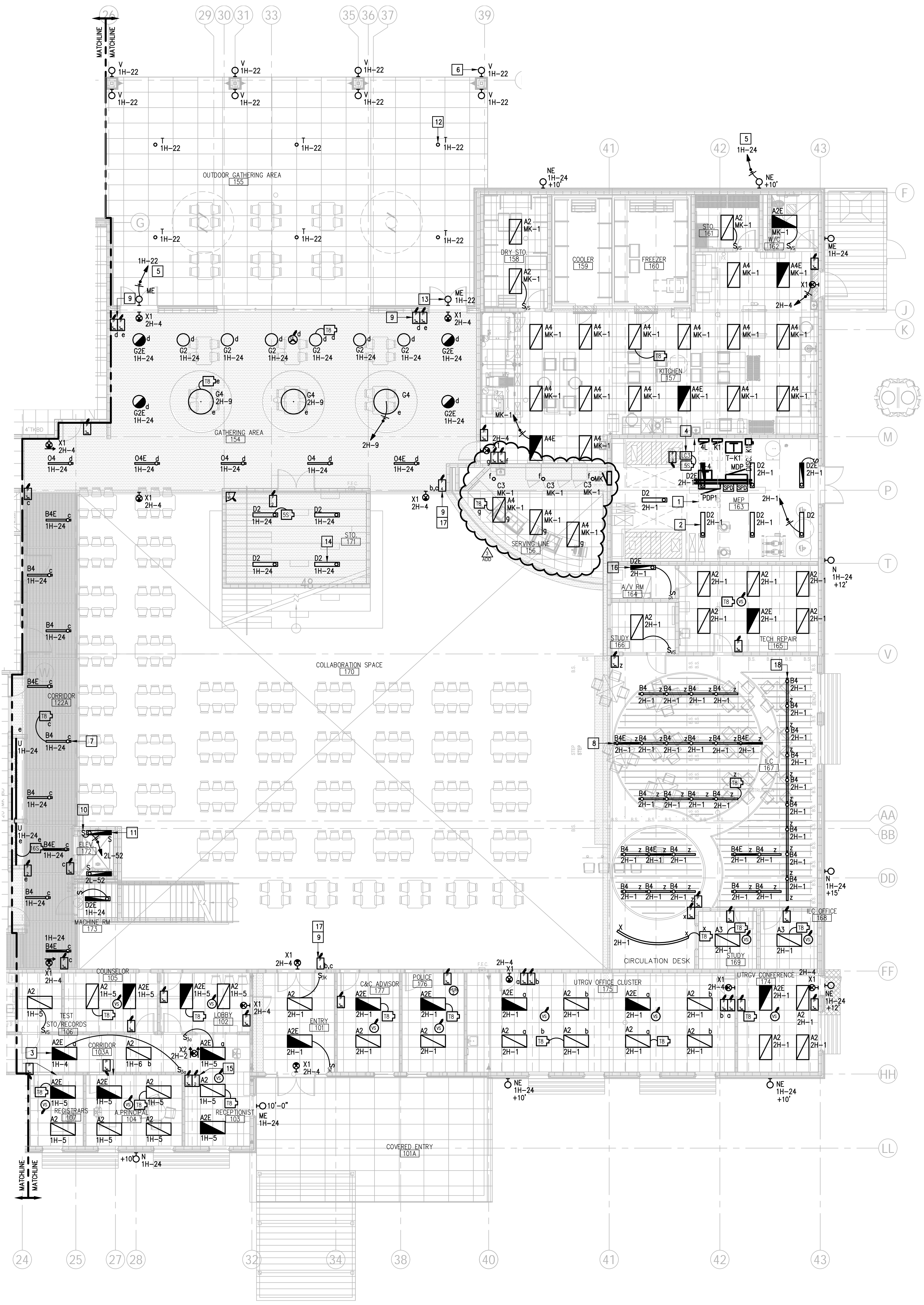
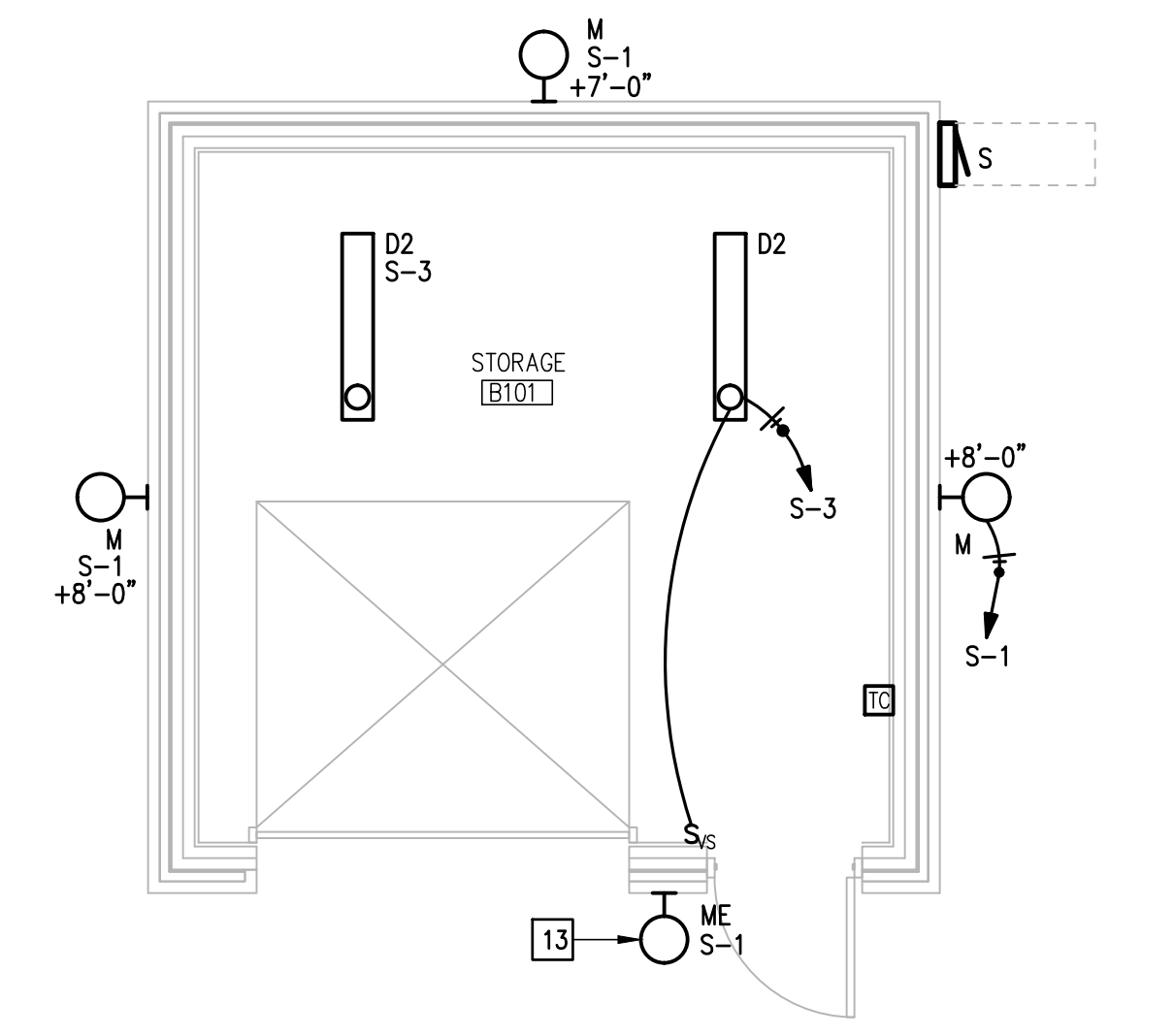
GENERAL NOTES:

- LIGHTING BRANCH CIRCUIT HOMERUNS SHALL BE 3/4" - 2#12 & #12G. 20A/277V HOMERUNS EXCEEDING 200FT THE WIRE SIZE SHALL BE #10 & #8 FOR 275'.
- INTERIOR LIGHTING CONTROLS SHALL BE BY VACANCY SENSORS.
- REFER TO THE LUTRON CONTROL DIAGRAM FOR CONTROL WIRING REQUIREMENTS.
- EXTERIOR LIGHTING CONTROLS SHALL BE BY LIGHTING CONTACTOR. TIME CONTROL/SCHEDULES VIA LUTRON VIVE HUB.
- PROVIDE 0-10V SIGNAL WIRING TO EACH DIMMED LIGHT FIXTURE DRIVER AND WALL SWITCH.
- EACH 20A/1P BRANCH CIRCUIT SHALL HAVE A DEDICATED NEUTRAL.

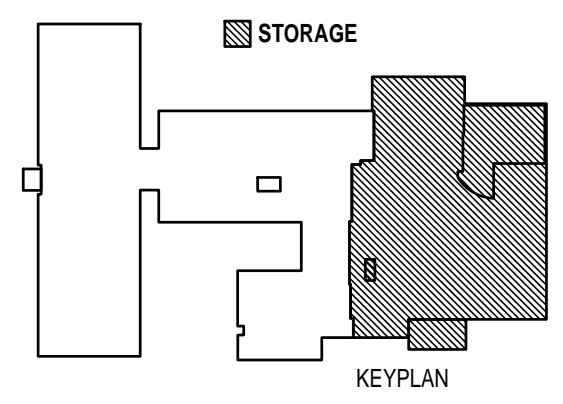
KEYED NOTES:

- NO DUCTWORK OR PIPING TO BE ROUTED ABOVE PANELBOARDS. COORDINATE WITH OTHER TRADES - TYPICAL.
- PROVIDE UNISTRUT/THREADED ROD AND SUSPEND LIGHT FIXTURE AT 9'-0" AFF. COORDINATE INSTALLATION WITH HVAC DUCT WORK.
- CONNECT EMERGENCY BATTERY PACK TO BE CHARGING AT ALL TIMES (UNSWITCHED). LIGHT FIXTURE SHALL BE OPERATED BY THE CORRESPONDING SWITCH - TYPICAL.
- PROVIDE 3-POLE, 277, ELECTRICALLY HELD LIGHTING CONTACTOR FOR EMT-3. PROVIDE LUTRON RELAY POWER PAK AND WIRELESS SWITCH FOR TIME CONTROL AND OVERRIDE, VIA LUTRON VIVE HUB.
- SWITCH VIA LIGHTING CONTACTOR LC1/LC2.
- MOUNT LIGHT FIXTURE TYPE "V" AT 8'-0" AFF TO CENTER OF FIXTURE - TYPICAL.
- SUSPEND LIGHT FIXTURES TYPE "B4" BELOW DECK. BOTTOM OF LIGHT FIXTURE TO SUSPEND FLUSH WITH WIRE MESH CEILING.
- SUSPEND LIGHT FIXTURE TYPE "B4" OF BOTTOM OF FIXTURE ALIGN OF BOTTOM OF WOOD SLAT - TYPICAL.
- PROVIDE CLEAR LOCKING COVER.
- PROVIDE 3-WAY LIGHT SWITCH LOCATED 4'-0" ABOVE BOTTOM LANDING NEXT TO TOP RUNG OF LADDER AND 3-WAY LIGHT SWITCH LOCATED 4'-0" ABOVE THE CONTROLLER LANDING FLOOR.
- COORDINATE WITH ELEVATOR CONTRACTOR FOR EXACT LOCATION PRIOR TO ROUGH-IN - TYPICAL.
- MOUNT LIGHT FIXTURE TYPE "T" PENDANT MOUNTED - TYPICAL.
- MOUNT LIGHT FIXTURE TYPE "ME" AT 8'-0" AFF TO CENTER OF FIXTURE - TYPICAL.
- SECURE TO BOTTOM OF STRUCTURE.
- MANUAL OVERRIDE SWITCH FOR EACH RECEPTIONIST 103 AND STAIRWELL MOTORIZED SHADES. SEE SHEET E3.04 FOR SHADE POWER SUPPLY LOCATIONS.
- PROVIDE WALL MOUNTED AT 8'-0".
- REFER TO SHEET E3.04 TO CONTROL LIGHTING.
- SUSPENDED FIXTURE TYPE "B4", TOP OF FIXTURE TO BE IN CONTACT WITH BOTTOM OF WOOD SLAT - TYPICAL FOR THIS ROW.

02 STORAGE LIGHTING PLAN
SCALE: 1/4" = 1'-0"



01 1ST LEVEL LIGHTING PLAN
SCALE: 1/8" = 1'-0"



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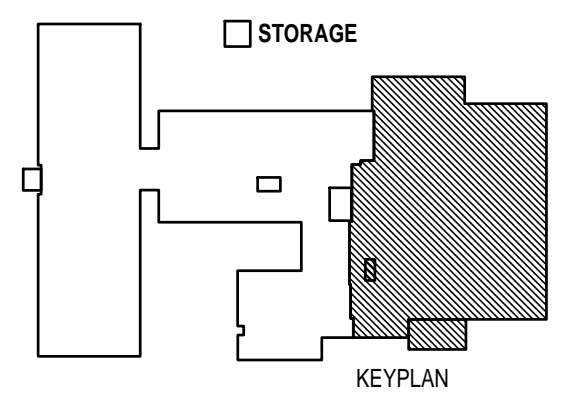
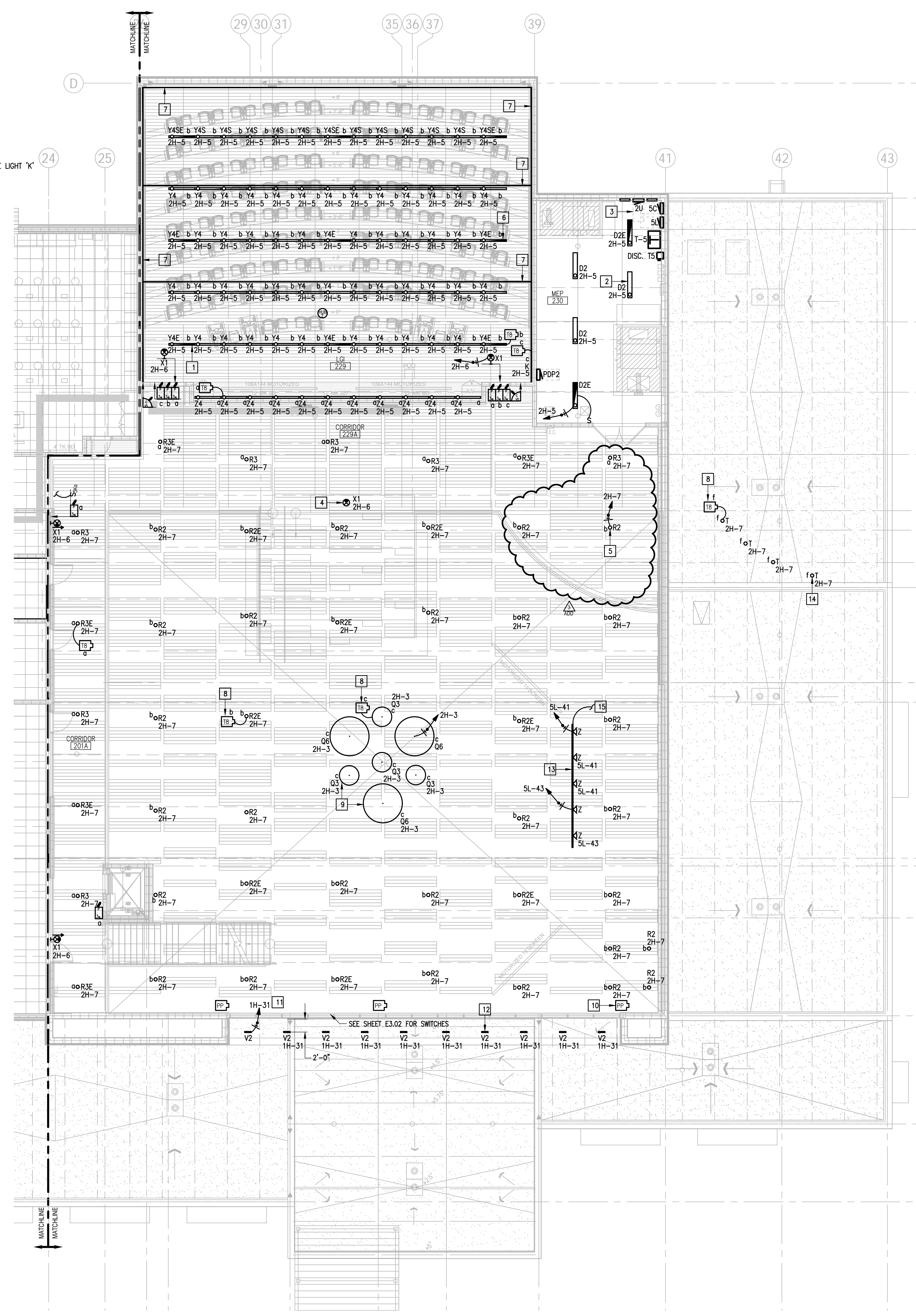
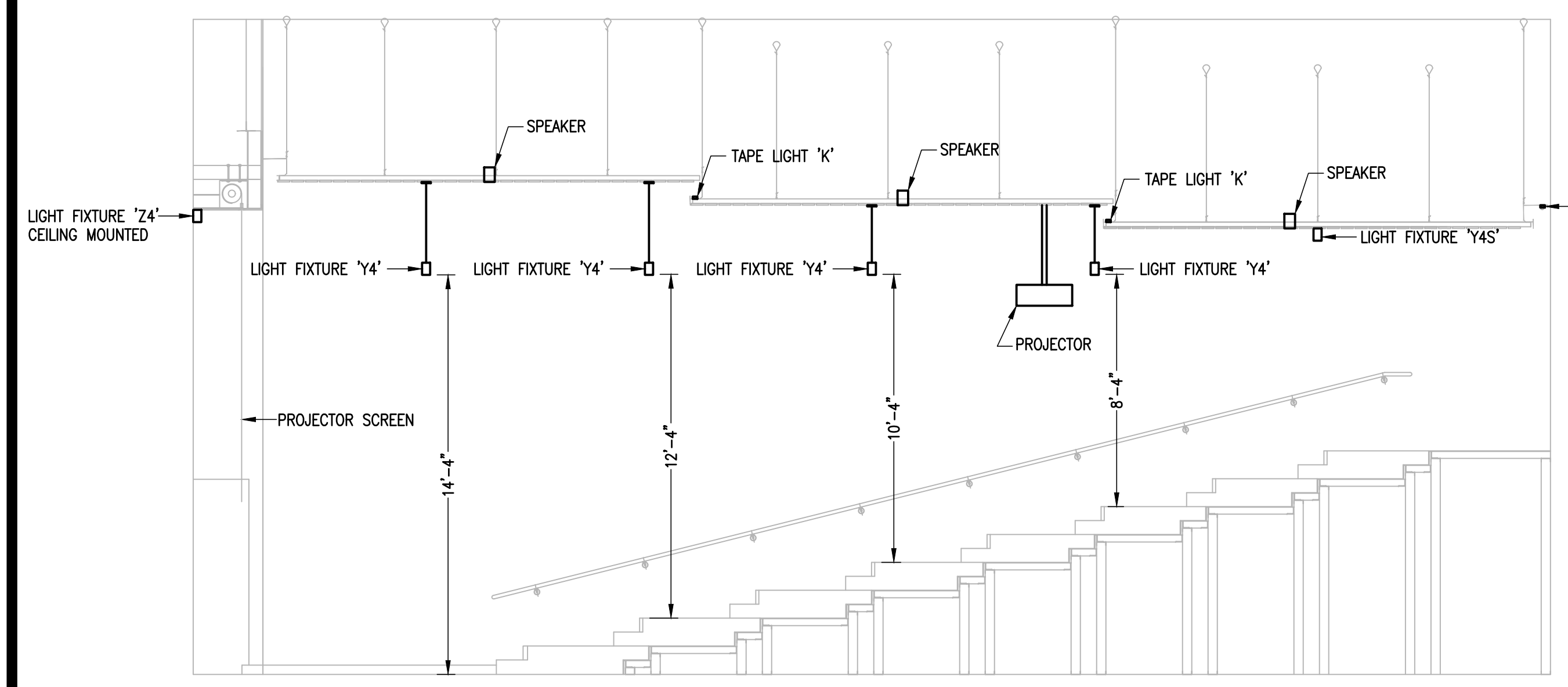
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GENERAL NOTES:

- LIGHTING BRANCH CIRCUIT HOMERUNS SHALL BE 3/4" - 2#12 & #12S. 20A/277V HOMERUNS EXCEEDING 200FT THE WIRE SIZE SHALL BE #10 & #8 FOR 275V.
- INTERIOR LIGHTING CONTROLS SHALL BE BY VACANCY SENSORS.
- REFER TO THE LUTRON CONTROL DIAGRAM FOR CONTROL WIRING REQUIREMENTS.
- EXTERIOR LIGHTING CONTROLS SHALL BE BY LIGHTING CONTACTOR. TIME CONTROL/SCHEDULES VIA LUTRON WVE HUB.
- PROVIDE 0-10V SIGNAL WIRING TO EACH DIMMED LIGHT FIXTURE DRIVER AND WALL SWITCH.
- EACH 20A/1P BRANCH CIRCUIT SHALL HAVE A DEDICATED NEUTRAL.

KEYED NOTES:

- CONNECT EMERGENCY BATTERY PACK TO BE CHARGING AT ALL TIMES (UNSWITCHED). LIGHT FIXTURE SHALL BE OPERATED BY THE CORRESPONDING SWITCH - TYPICAL.
- PROVIDE UNISTRUT AND THREADED ROD TO SUSPEND LIGHT FIXTURE AT 9'-0" AFF. COORDINATE INSTALLATION WITH HVAC DUCT WORK.
- NO DUCTWORK OR PIPING TO BE ROUTED ABOVE PANELBOARDS. COORDINATE WITH OTHER TRADES - TYPICAL.
- PROVIDE 6'-0" STEM KIT.
- PENDANT MOUNT LIGHT FIXTURE TYPE 'R2'. BOTTOM OF FIXTURE TO ALIGN WITH BOTTOM OF CEILING CLOUDS - TYPICAL.
- SEE DETAIL 02/E3.04.
- SURFACE MOUNT TAPE LIGHT TYPE 'K' IN COVE - TYPICAL.
- CONTROLLED FROM SWITCH AT FIRST FLOOR.
- PENDANT MOUNT LIGHT FIXTURES TYPE 'Q3' AND 'Q6' 2'-0" BELOW CEILING CLOUDS TO TOP OF FIXTURES.
- CONNECT MOTORIZED SHADE POWER SUPPLY; 5L-37. COORDINATE EXACT LOCATION WITH SHADE SUPPLIER.
- CONNECT VIA LIGHTING CONTACTOR LC1/LC2.
- SURFACE MOUNT LIGHT FIXTURE TYPE 'V2' TO UNDERSIDE OF SOFFIT - TYPICAL.
- PROVIDE PIPE HANGER FOR STAGE LIGHTS 24" BELOW CEILING CLOUDS. PROVIDE CHAIN HANGERS SECURED TO STRUCTURAL STEEL.
- NOT USED.
- CONTROLLED VIA THE SOUND REINFORCEMENT CONSOLE. PROVIDE DMX CONTROL CABLE.



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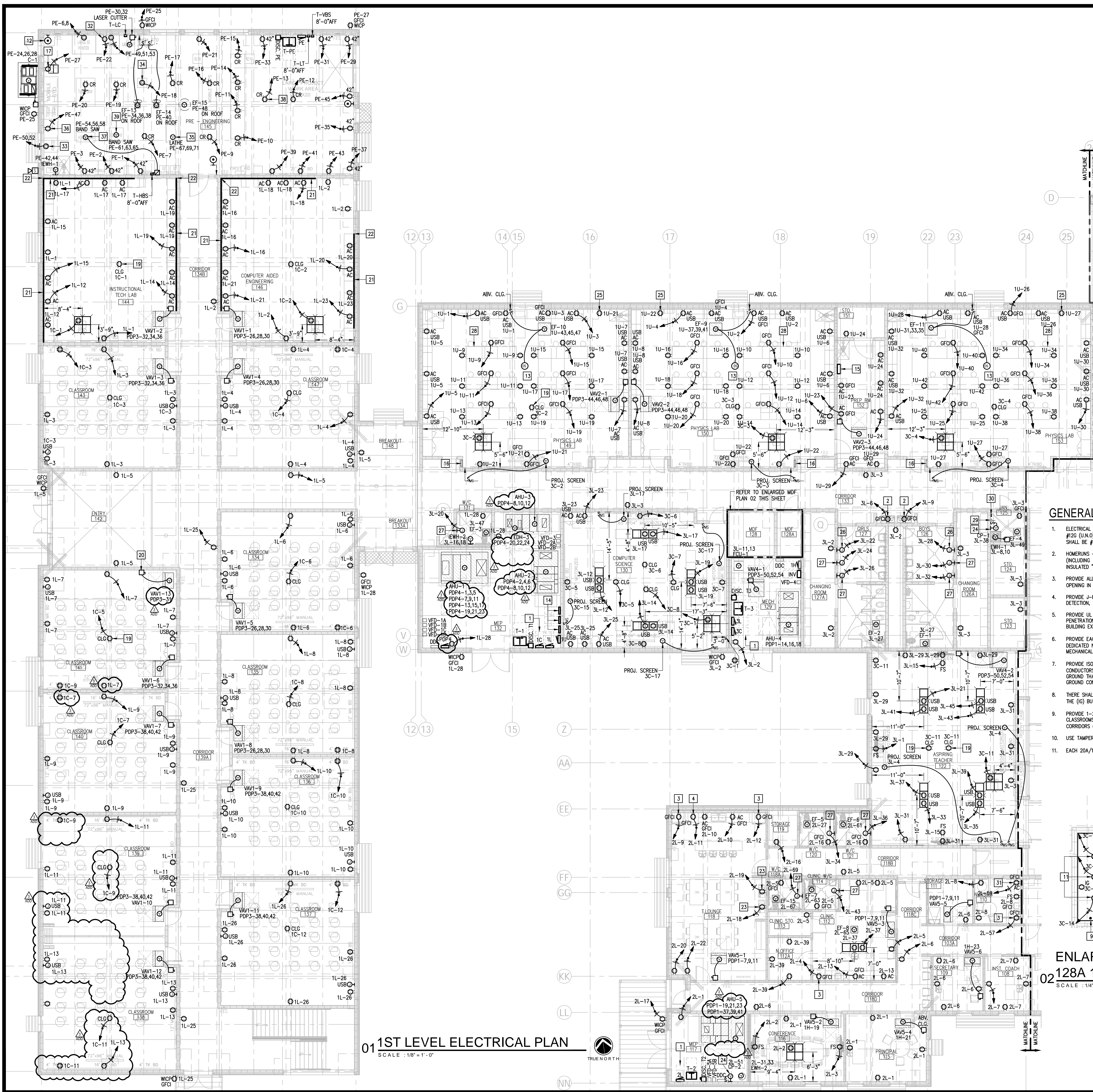


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Drawn By: J.P.
Job No: 22073
Sheet:

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01 1ST LEVEL ELECTRICAL PLAN
SCALE: 1/8" = 1'-0"

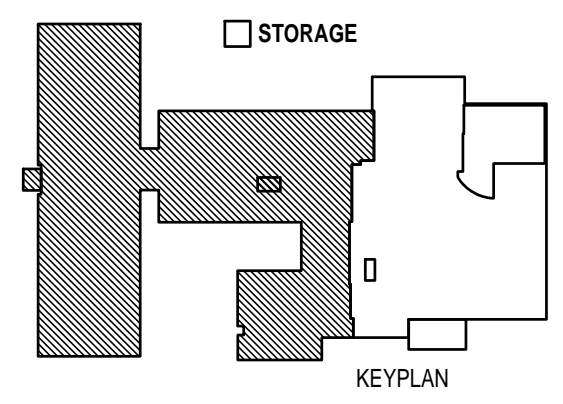
ENLARGED AREA "A" MDF 128 AND 128A 1ST LEVEL ELECTRICAL PLAN
SCALE: 1/4" = 1'-0"

KEYED NOTES:

- NO DUCTWORK OR PIPING TO BE ROUTED ABOVE PANELBOARDS. COORDINATE WITH OTHER TRADES - TYPICAL.
- CONNECT ELECTRIC DRINKING FOUNTAIN. ROUGH-IN AT 17'-7/16" TO CENTER OF IN-BOX. COORDINATE WITH PLUMBING CONTRACTOR. PROVIDE A REMOTE TEST SWITCH ADJACENT/ACCESSIBLE TO DRINKING FOUNTAIN AT 18" AFF.
- CONNECT REFRIGERATOR.
- CONNECT DISHWASHER.
- PROVIDE 3/4" X 4" PLYWOOD TELEPHONE/DATA BOARD ON ALL WALLS. FIRE RESISTIVE TREATED (A-D INT-AFP). MOUNT AT 24" AFF.
- CONNECT INTERCOM SYSTEM RACK.
- CONNECT INTRUSION DETECTION SYSTEM CONTROL PANEL; BRANCH CIRCUIT: 1/2" - 2#12 & #12G, 3C-13.
- PROVIDE DATA RACK - PROVIDED BY OWNER.
- PROVIDE GROUND BUS BAR. REFER TO GROUNDING ELECTRICAL RISER DIAGRAM.
- PROVIDE SPECIAL RECEPTACLE FOR IFC-UPS (NEMA LS-30R) PENDANT MOUNTED SEE DETAIL; BRANCH CIRCUIT: 3/4" - 2#10 & #10G. FIELD CONFIRM EXACT LOCATION WITH OWNER/IT SUBCONTRACTOR.
- PROVIDE EMERGENCY PUSH BUTTON. SEE DETAIL 07/E9.02.
- CONNECT ALL RECEPTACLE CIRCUITS (EXCLUDING THE COMPUTER RECEPS) IN THIS ROOM THROUGH THE CORRESPONDING CONTRACTOR ENCLOSURES FOR EMERGENCY SHUTOFF PURPOSED THEN THROUGH THE CORRESPONDING PANEL.
- PROVIDE (SURFACE MOUNTED) CONTACTOR ENCLOSURE. ENCLOSURE SHALL BE E & I COMPANY ECP-24-FC. SEE SCIENCE LAB UTILITY CONTROLS DETAIL.
- PROVIDE (SURFACE MOUNTED) LOW VOLTAGE RELAYS FOR SOLENOID ENCLOSURE. ENCLOSURE SHALL BE E & I COMPANY VP-2-2-CW-1-T-5-ML. SOLENOID ENCLOSURE TO BE RATED FOR USE WITH DE-IONIZATION SYSTEM. PROVIDE SOLENOID ENCLOSURE WITH ASCO VALVES MODEL "8212558100F1" AND PVC SCHED. 80 PIPING. COORDINATE THE EXACT LOCATION W/ THE ARCHITECT. COORDINATE THE INSTALLATION W/ THE PLUMBING CONTRACTOR. MOUNT AT 48" AFF. TO CENTER OF THE BOX. SEE SCIENCE LAB UTILITY CONTROLS DETAIL.
- PROVIDE (SEMI-RECESSED) EMERGENCY UTILITY CONTROLLER W/ PURGE FAN CIRCUIT SWITCH FACING PREP ROOM. CONTROLLER SHALL BE E & I COMPANY MODEL NO. LCP-3-W-E-F-R. BRANCH CIRCUIT: 1/2" RACEWAY - 2#12 & #12G. MOUNT AT 48" AFF. TO CENTER OF HIGHEST SWITCH. FAN NORMAL OPERATION TO BE SWITCHED BY OCCUPANCY SENSOR. SEE SCIENCE LAB UTILITY CONTROLS DETAIL.
- CONNECT AIR COMPRESSOR AIR DRYER.
- CONNECT FIRE ALARM POWER SUPPLY; 3C-15.
- PROVIDE PROJECTOR MOUNTING PLATE AND ELECTRICAL OUTLET. PROVIDE FLEXIBLE RACEWAY WITH 6'-0" OF SLACK. SEE DETAILS 08/09/E9.02 - TYPICAL.
- PROVIDE VAV DISCONNECT ABOVE ACCESSIBLE CEILING - TYPICAL.
- PROVIDE TWO CHANNEL SURFACE ALUMINUM RACEWAY ABOVE COUNTER. SEE DETAIL.
- RISE UP CONCEALED IN WALL RACEWAY AT THIS CORNER TO A JUNCTION BOX ABOVE THE CEILING - SEE DETAIL.
- CONNECT COPY MACHINE.
- CONNECT CIRCULATING PUMP.
- CONNECT SAFETY GOOGLE CABINET.
- PROVIDE INFRARED RECESSED MOUNTED HAND DRYER; BRANCH CIRCUIT: 3/4" - 2#10 & #10G. MOUNT @ 44" AFF. (BOTTOM). VERIFY THE EXACT LOCATION WITH THE ARCHITECTURAL PLANS.
- PROVIDE INFRARED RECESSED MOUNTED HAND DRYER; BRANCH CIRCUIT: 3/4" - 2#10 & #10G. MOUNT @ 44" AFF. (BOTTOM). VERIFY THE EXACT LOCATION WITH THE ARCHITECTURAL PLANS.
- PROVIDE GFCI PROTECTION UPSTREAM FROM THE INITIAL RECEPTACLE. LAB TABLE PROVIDED WITH OUT FOTS FOR WIRING DEVICES. CONTRACTOR TO PROVIDE WIRING DEVICES, BACK BOXES, RACEWAYS AND WIRING - TYPICAL.
- CONNECT INTERCEPTOR SERVICE ALERT PANEL PROVIDED BY PLUMBING CONTRACTOR INSTALLED BY ELECTRICAL CONTRACTOR, 3L-45. PROVIDE 1/2" RACEWAY FROM SERVICE ALERT PANEL TO SOLID INTERCEPTOR FOR WIRING. COORDINATE EXACT LOCATIONS WITH PLUMBER.
- CONNECT ELEVATOR SERVICE ALERT PANEL PROVIDED BY PLUMBING CONTRACTOR INSTALLED BY ELECTRICAL CONTRACTOR, 3L-7. SIGNAL WIRING TERMINATIONS AND INSTALLATIONS SHALL BE BY ELECTRICAL CONTRACTOR. PROVIDE A 6"x6"x6" NEMA EXP SUBMERSIBLE IN-BOX FOR WIRING IN ELEVATOR PIT. COORDINATE EXACT LOCATION OF ALL COMPONENTS WITH PLUMBER & ELEVATOR EQUIPMENT SUPPLIER PRIOR TO ANY ROUGH-IN.
- CONNECT MICROWAVE.
- CONNECT OVEN 1500V, 120V. COORDINATE WITH OWNER WHETHER A RECEPTACLE OR HARDWARE CONNECTION IS REQUIRED.
- CONNECT 3D PRINTER, 15A, 208V, 14. BRANCH CIRCUIT: 3/4" - 2#12 & #12G. COORDINATE WITH OWNER WHETHER A SPECIAL RECEPTACLE OR HARDWARE CONNECTION IS REQUIRED.
- CONNECT DRILL PRESS 3/4HP, 120V; BRANCH CIRCUIT: 3/4" - 2#10 & #10G. COORDINATE WITH OWNER WHETHER A SPECIAL RECEPTACLE OR HARDWARE CONNECTION IS REQUIRED. PROVIDE HUBBELL CORD REEL MODEL NO. HBL25103Y/HBL3409B/HBLMB/HBL1465.
- CONNECT LATHE, 6.2A, 230V, 34. VIA BOOST XFMR T-LT; BRANCH CIRCUIT: 3/4" - 4#12 & #12G. PROVIDE A 30A, 3P3F, 204F, 240V, 5/8" NEMA 1 DISCONNECT.
- CONNECT MILL 1.2A, 120V.
- CONNECT HORIZONTAL BAND SAW 2HP, 230V, 34. VIA BOOST XFMR T-HBS; BRANCH CIRCUIT: 3/4" - 4#12 & #12G. PROVIDE UNISTRUT SUPPORT FROM STRUCTURE STEEL. PROVIDE 50 CORD BRANCH CONNECTION. PROVIDE A 30A, 3P3F, 204F, 240V, 5/8" NEMA 1 DISCONNECT.
- CONNECT 3 OUTLET CORD REEL NORTHERN TOOL & EQUIPMENT MODEL NO. 49583. PROVIDE UNISTRUT SUPPORT FROM STRUCTURE STEEL AND DUPLEX RECEPTACLE SECURED TO UNISTRUT FOR CONNECTING CORD REEL - TYPICAL FOR ALL PRE-ENGINEERING CORD REELS.
- CONNECT VERTICAL BAND, 1HP, 220V, 34. VIA BOOST XFMR T-VBS; BRANCH CIRCUIT: 3/4" - 4#12 & #12G. PROVIDE UNISTRUT SUPPORT FROM STRUCTURE STEEL. PROVIDE 50 CORD BRANCH CONNECTION.
- PROVIDE 4" RACEWAYS WITH PULLWIRE FOR DATA, FIRE ALARM WIRING, ETC.

GENERAL NOTES:

- ELECTRICAL BRANCH CIRCUITS & HOMERUNS SHALL BE 3/4" - 2#12 & #12G (U.N.O.) 20A/120V HOMERUNS EXCEEDING 100FT, THE WIRE SIZE SHALL BE #10 & #8 FOR 175'.
- HOMERUNS - INSTALL NO MORE THAN THREE PER RACEWAY (INCLUDING LIGHTING BRANCH CIRCUITS); 3 INSULATED "HOT", 3 INSULATED "NEUTRAL" AND 1 SHARED "GROUND".
- PROVIDE ALL ELECTRICAL RECEPTACLES INSTALLED WITH THE GROUND OPENING IN THE "UP" POSITION.
- PROVIDE J-HOOKS TO SUPPORT THE FIRE ALARM, INTRUSION DETECTION, VOICE, INTERCOM AND DATA CABLING.
- PROVIDE UL LISTED FIRE STOPPING MATERIAL AT ALL FIRE WALL PENETRATIONS; PROVIDE EXPANSION PLATES & BONDING JUMPERS AT BUILDING EXPANSION JOINTS.
- PROVIDE EACH ISOLATED GROUND CIRCUIT HOMERUN WITH A "HOT", DEDICATED NEUTRAL, ISOLATED GROUND (IG) AND A SHARED MECHANICAL GROUND.
- PROVIDE ISOLATED GROUND (IG) RECEPTACLES WITH 4 INSULATED CONDUCTORS, "HOT", NEUTRAL, ISOLATED GROUND (IG) AND EQUIPMENT GROUND THAT CONNECTS TO THE BOX ENCLOSURE. PROVIDE ISOLATED GROUND CONDUCTOR WITH A YELLOW TRACER.
- THERE SHALL BE NO SPICES IN THE ISOLATED GROUND (IG) FEEDING THE (IG) BUS.
- PROVIDE 1-2" RACEWAY (SLEEVE) 1" ABOVE CEILING AT ALL CLASSROOMS, RESTROOMS, OFFICES, ETC. DOORS THAT LEAD TO CORRIDORS (FLOOR TO CEILING WALLS) FOR SPECIAL SYSTEMS WIRING.
- USE TAMPER RESISTANT RECEPTACLES THROUGHOUT.
- EACH 20A/1P BRANCH CIRCUIT SHALL HAVE A DEDICATED NEUTRAL.



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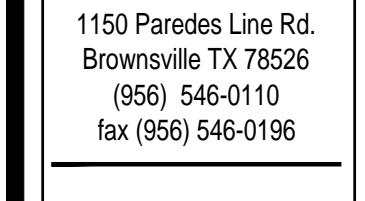
UTRGV/ EDINBURG CISD COLLEGIATE HIGH SCHOOL



Date: September 08, 2022
Scale: As Noted
Project Architect: As Noted
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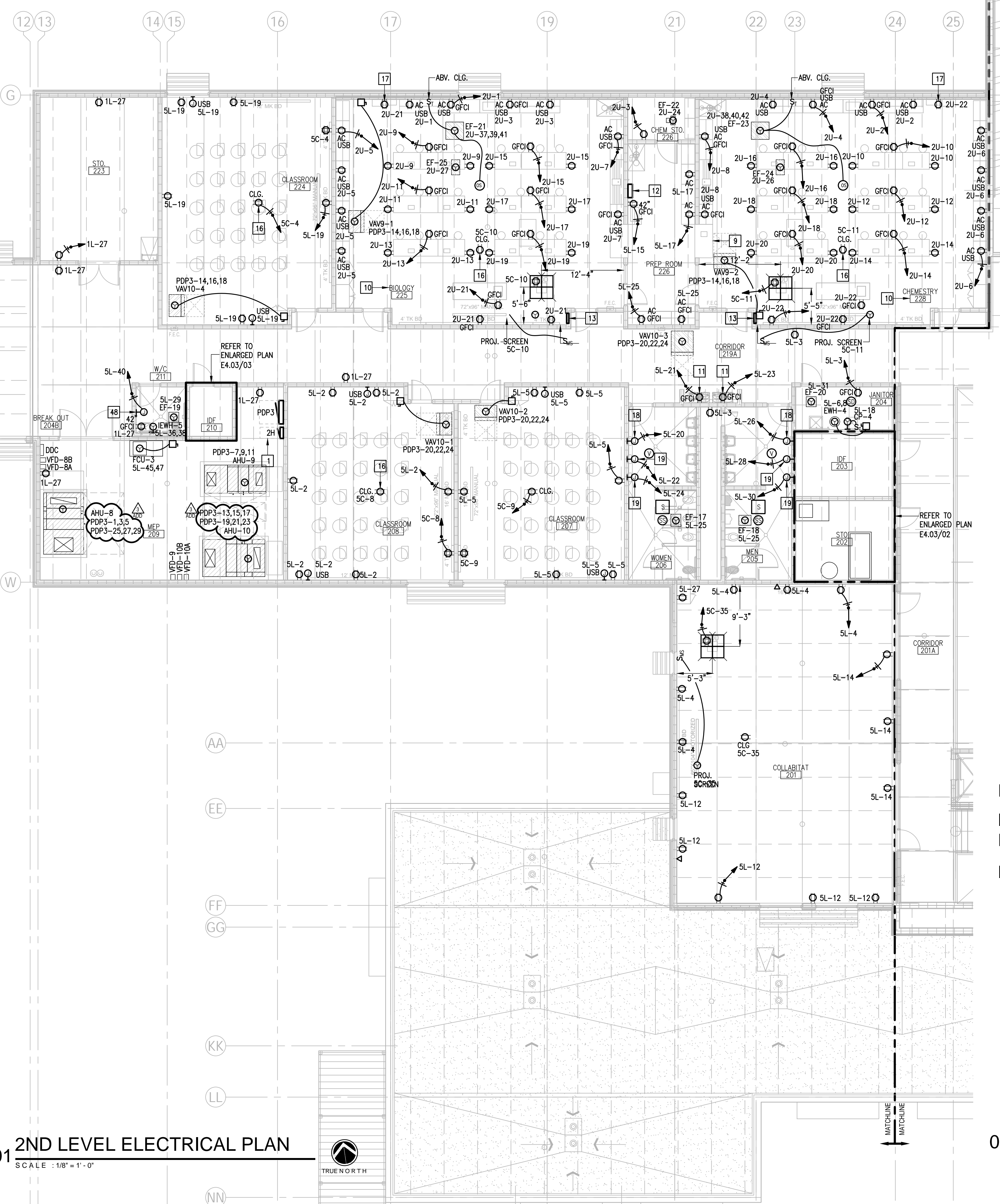
GENERAL NOTES:

- ELECTRICAL BRANCH CIRCUITS & HOMERUNS SHALL BE 3/4" - 2#12 & #12 (U.N.O). 20A/20V HOMERUNS EXCEEDING 100FT, THE WIRE SIZE SHALL BE #10 & #8 FOR 175.
- HOMERUNS - INSTALL NO MORE THAN THREE PER RACEWAY (INCLUDING LIGHTING BRANCH CIRCUITS); 3 INSULATED "HOT", 3 INSULATED "NEUTRAL" AND 1 SHARED "GROUND".
- PROVIDE ALL ELECTRICAL RECEPTACLES INSTALLED WITH THE GROUND OPENING IN THE "UP" POSITION.
- PROVIDE J-HOOKS TO SUPPORT THE FIRE ALARM, INTRUSION DETECTION, VOICE, INTERCOM AND DATA CABLING.
- PROVIDE UL LISTED FIRE STOPPING MATERIAL AT ALL FIRE WALL PENETRATIONS; PROVIDE EXPANSION PLATES & BONDING JUMPERS AT BUILDING EXPANSION JOINTS.
- PROVIDE EACH ISOLATED GROUND CIRCUIT HOMERUN WITH A "HOT", DEDICATED NEUTRAL, ISOLATED GROUND (IG) AND A SHARED MECHANICAL GROUND.
- PROVIDE ISOLATED GROUND (IG) RECEPTACLES WITH 4 INSULATED CONDUCTORS, "HOT", NEUTRAL, ISOLATED GROUND (IG) AND EQUIPMENT GROUND THAT CONNECTS TO THE BOX ENCLOSURE. PROVIDE ISOLATED GROUND CONDUCTOR WITH A YELLOW TRACER.
- THERE SHALL BE NO SPLICES IN THE ISOLATED GROUND (IG) FEEDING THE (IG) BUSS.
- PROVIDE 1-2" RACEWAY (SLEEVES) 12" ABOVE CEILING AT ALL CLASSROOMS, RESTROOMS, OFFICES, ETC. DOORS THAT LEAD TO CORRIDORS (FLOOR TO CEILING WALLS) FOR SPECIAL SYSTEMS WIRING.
- USE TAMPER RESISTANT RECEPTACLES THROUGHOUT.
- EACH 20A/1P BRANCH CIRCUIT SHALL HAVE A DEDICATED NEUTRAL.

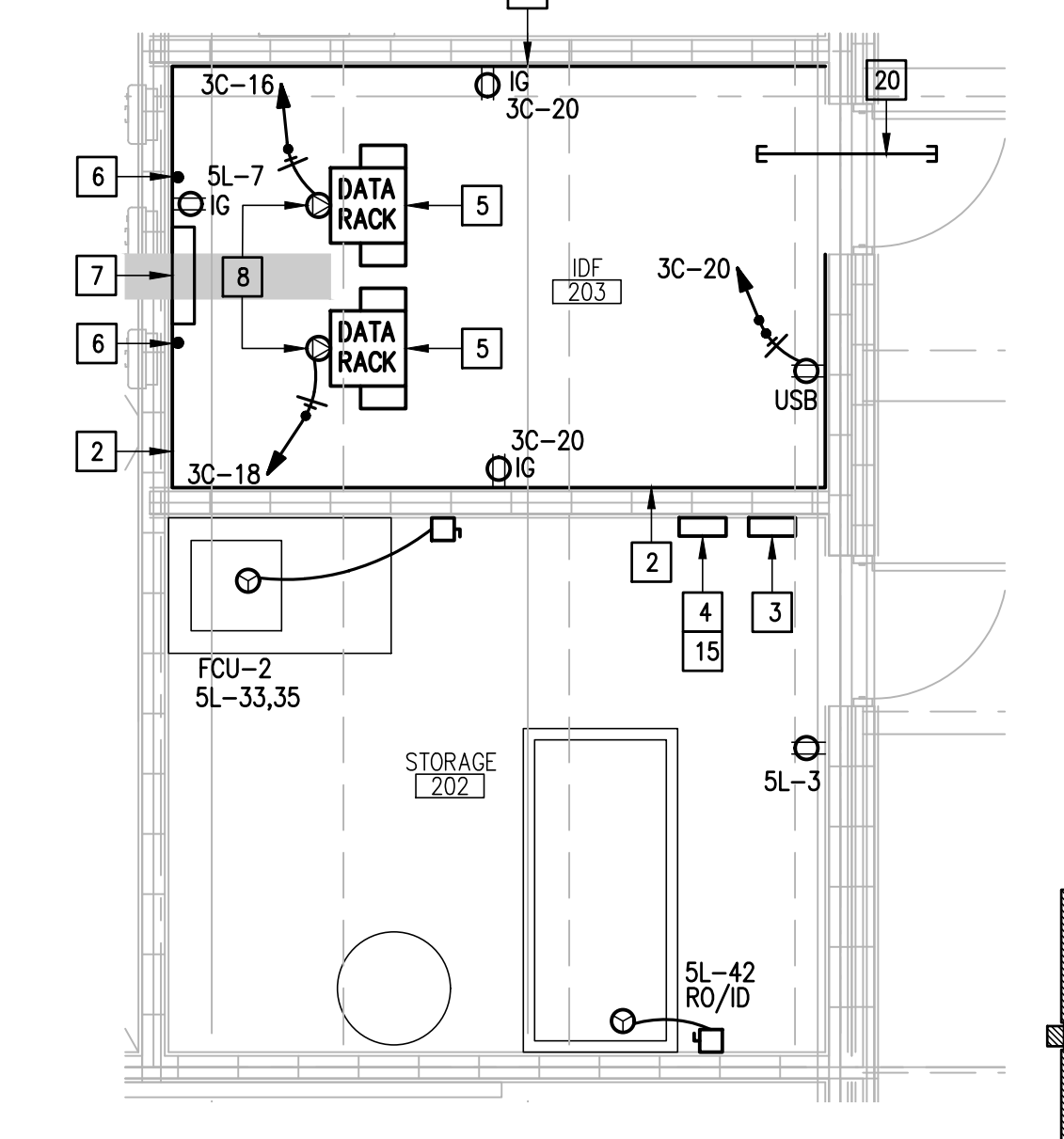
KEYED NOTES:

- NO DUCTWORK OR PIPING TO BE ROUTED ABOVE PANELBOARDS. COORDINATE WITH OTHER TRADES - TYPICAL.
- PROVIDE 3/4" X 4" PLYWOOD TELEPHONE/DATA BOARD ON ALL WALLS. FIRE RESISTIVE TREATED (A-D INT-APA). MOUNT AT 24" AFF.
- PROVIDE INTERCOM SYSTEM SWITCHING MODULES WALL MOUNTED.
- CONNECT INTRUSION DETECTION SYSTEM POWER SUPPLY; 5C-35.
- PROVIDE DATA RACK - PROVIDED BY OWNER.
- PROVIDE GROUND BUS BAR. REFER TO GROUNDING ELECTRICAL RISER DIAGRAM.
- PROVIDE SPECIAL SYSTEMS RACEWAYS TO THIS LOCATION. SEE SITE PLAN AND DETAIL.
- PROVIDE SPECIAL RECEPTACLE FOR IDP-USF (NEMA L5-30R) PENDANT MOUNTED SEE DETAIL; BRANCH CIRCUIT: 3/4" - 2#10 & #10G. FIELD CONFIRM EXACT LOCATION WITH OWNER/IT SUBCONTRACTOR.
- CONNECT FUMEHOOD, CONNECT BRANCH CIRCUIT TO THE MOTOR, LIGHT, & SWITCH, LDI-54. MOUNT THE THERMAL SWITCH ABOVE THE FUMEHOOD IN THE ACCESSIBLE CEILING SPACE.
- CONNECT ALL RECEPTACLE CIRCUITS (EXCLUDING THE COMPUTER RECEPTACLES) IN THIS ROOM THROUGH THE CORRESPONDING CONTACTOR ENCLOSURES FOR EMERGENCY SHUTOFF PURPOSED THEN THROUGH THE CORRESPONDING PANEL.
- CONNECT ELECTRIC DRINKING FOUNTAIN. ROUGH-IN AT 17-7/16" TO CENTER OF J-BOX. COORDINATE WITH PLUMBING CONTRACTOR. PROVIDE A REMOTE TEST SWITCH ADJACENT/ACCESSIBLE TO DRINKING FOUNTAIN AT 18" AFF.
- PROVIDE (SURFACE MOUNTED) LOW VOLTAGE RELAYS FOR SOLENOID ENCLOSURE. ENCLOSURE SHALL BE E & I COMPANY VP-2-2-CW-1-1-S-KL. SOLENOID ENCLOSURE TO BE RATED FOR USE WITH DE-IONIZATION SYSTEM. PROVIDE SOLENOID ENCLOSURE WITH ASSO VALVES MODEL "8212AS56L100FT" AND PVC SCHED. 80 PIPING. COORDINATE THE EXACT LOCATION W/ THE ARCHITECT. COORDINATE THE INSTALLATION W/ THE PLUMBING CONTRACTOR. MOUNT AT 48" A.F.F. TO CENTER OF THE BOX. SEE SCIENCE LAB UTILITY CONTROLS DETAIL.
- PROVIDE (SEMI-RECESSED) EMERGENCY UTILITY CONTROLLER W/ PURGE FAN CIRCUIT SWITCH FACNG PREP ROOM. CONTROLLER SHALL BE E & I COMPANY MODEL NO. LCP-3-W-E-F-RT. BRANCH CIRCUIT: 1/2" RACEWAY - 2#12 & #12G. MOUNT AT 48" A.F.F. TO CENTER OF HIGHEST SWITCH. FAN NORMAL OPERATION TO BE SWITCHED VIA OCCUPANCY SENSOR. SEE SCIENCE LAB UTILITY CONTROLS DETAIL.
- MOUNTING HEIGHT TO BE FROM TOP OF LANDING.
- PROVIDE FIRE ALARM POWER SUPPLY; 5C-33.
- PROVIDE PROJECTOR MOUNTING PLATE AND ELECTRICAL OUTLET. PROVIDE FLEXIBLE RACEWAY WITH 6"-0" OF SLACK. SEE DETAILS 08/09/EB.2 - TYPICAL.
- CONNECT SAFETY GOGGLE CABINET.
- PROVIDE INFRARED RECESSED MOUNTED HAND DRYER - SEE DETAIL. BRANCH CIRCUIT: 3/4" - 2#10 & #10G. MOUNT @ +44" A.F.F. (BOTTOM). VERIFY THE EXACT LOCATION WITH THE ARCHITECTURAL PLANS.
- PROVIDE INFRARED RECESSED MOUNTED HAND DRYER - SEE DETAIL. BRANCH CIRCUIT: 3/4" - 2#10 & #10G. MOUNT @ +48" A.F.F. (BOTTOM). VERIFY THE EXACT LOCATION WITH THE ARCHITECTURAL PLANS.
- PROVIDE 3-4" RACEWAYS WITH PULLWIRE FOR SPECIAL SYSTEMS CABLING.

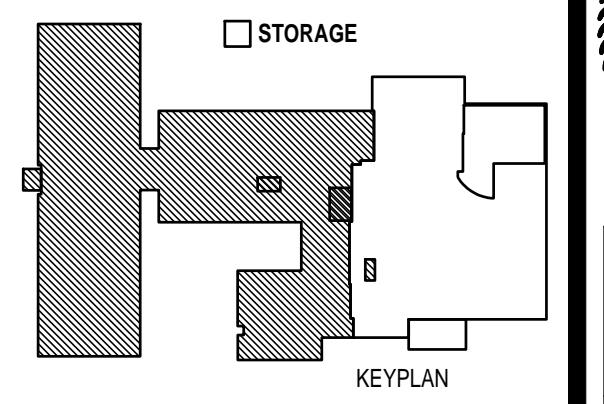
**ENLARGED IDF 210
ELECTRICAL PLAN**
SCALE : 1/4" = 1'-0"



01 2ND LEVEL ELECTRICAL PLAN
SCALE : 1/8" = 1'-0"



**ENLARGED IDF 203 AND
AND STORAGE 202
ELECTRICAL PLAN**
SCALE : 1/4" = 1'-0"



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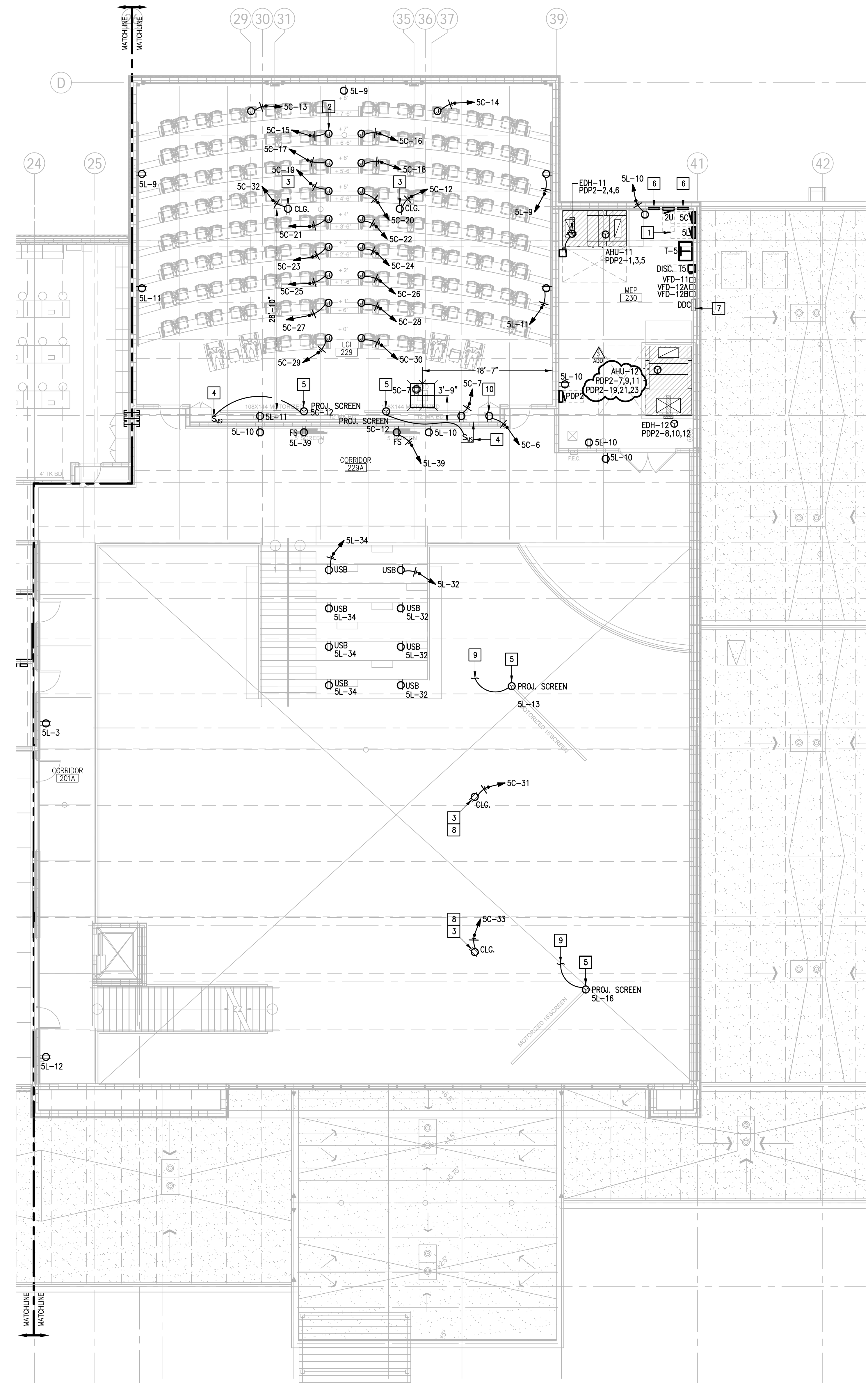
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GENERAL NOTES:

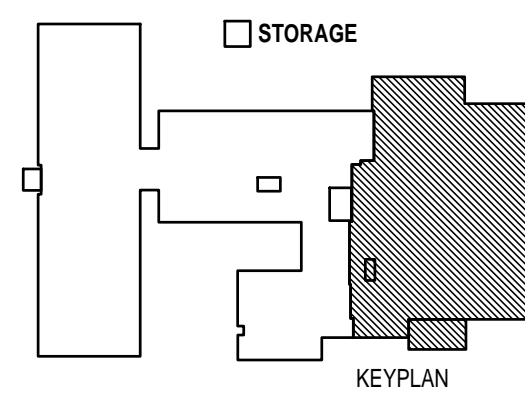
- ELECTRICAL BRANCH CIRCUITS & HOMERUNS SHALL BE 3/4" - 2#12 & #12G (U.N.O.). 20A/120V HOMERUNS EXCEEDING 100FT, THE WIRE SIZE SHALL BE #10 & #8 FOR 175'.
- HOMERUNS - INSTALL NO MORE THAN THREE PER RACEWAY (INCLUDING LIGHTING BRANCH CIRCUITS); 3 INSULATED "HOT", 3 INSULATED "NEUTRAL AND 1 SHARED "GROUND".
- PROVIDE ALL ELECTRICAL RECEPTACLES INSTALLED WITH THE GROUND OPENING IN THE "UP" POSITION.
- PROVIDE J-HOOKS TO SUPPORT THE FIRE ALARM, INTRUSION DETECTION, VOICE, INTERCOM AND DATA CABLING.
- PROVIDE UL LISTED FIRE STOPPING MATERIAL AT ALL FIRE WALL PENETRATIONS; PROVIDE EXPANSION PLATES & BONDING JUMPERS AT BUILDING EXPANSION JOINTS.
- PROVIDE EACH ISOLATED GROUND CIRCUIT HOMERUN WITH A "HOT", DEDICATED NEUTRAL, ISOLATED GROUND (IG) AND A SHARED MECHANICAL GROUND.
- PROVIDE ISOLATED GROUND (IG) RECEPTACLES WITH 4 INSULATED CONDUCTORS; "HOT", NEUTRAL, ISOLATED GROUND (IG) AND EQUIPMENT GROUND THAT CONNECTS TO THE BOX ENCLOSURE. PROVIDE ISOLATED GROUND CONDUCTOR WITH A YELLOW TRACER.
- THERE SHALL BE NO SPLICES IN THE ISOLATED GROUND (IG) FEEDING THE (IG) BUS.
- PROVIDE 1-2" RACEWAY (SLEEVE) 12" ABOVE CEILING AT ALL CLASSROOMS, RESTROOMS, OFFICES, ETC. DOORS THAT LEAD TO CORRIDORS (FLOOR TO CEILING WALLS) FOR SPECIAL SYSTEMS WIRING.
- USE TAMPER RESISTANT RECEPTACLES THROUGHOUT.
- EACH 20A/1P BRANCH CIRCUIT SHALL HAVE A DEDICATED NEUTRAL.

KEYED NOTES:

- NO DUCTWORK OR PIPING TO BE ROUTED ABOVE PANELBOARDS. COORDINATE WITH OTHER TRADES - TYPICAL.
- CONNECT LECTURE ROOM PRE-WIRE FURNITURE. DIVIDE OUTLETS EVENLY BETWEEN CIRCUITS. COORDINATE ROUGH-IN WITH FURNITURE PROVIDER PRIOR TO ANY ROUGH-IN.
- PROVIDE PROJECTOR AND MOUNTING PLATE AND ELECTRICAL OUTLET. PROVIDE FLEXIBLE RACEWAY WITH 6"-0" OF SLACK. SEE DETAILS.
- CONNECT MOTORIZED PROJECTION SCREEN SWITCH (PROVIDED BY OTHERS).
- INSTALL AND CONNECT MOTORIZED PROJECTION SCREEN (PROVIDED BY OTHERS).
- PROVIDE (SURFACE MOUNTED) CONTACTOR ENCLOSURE. ENCLOSURE SHALL BE E & I COMPANY ECP-24-FC. SEE SCIENCE LAB UTILITY CONTROLS DETAIL 01/ES.03.
- CONNECT HVAC DDC CONTROL PANEL TO NEAREST 120V, 20A/1P SPARE BREAKER.
- PROVIDE UNISTRUT AND THREADED ROD SUPPORT FROM STRUCTURE STEEL.
- TO MOTORIZED SCREEN SWITCH LOCATIONS SEE SHEET E4.02 ADJACENT TO ROOM 156.
- CONNECT LECTURE HALL INTEGRATED A/V SYSTEM.



01 2ND LEVEL ELECTRICAL PLAN
 SCALE : 1/8" = 1'-0"



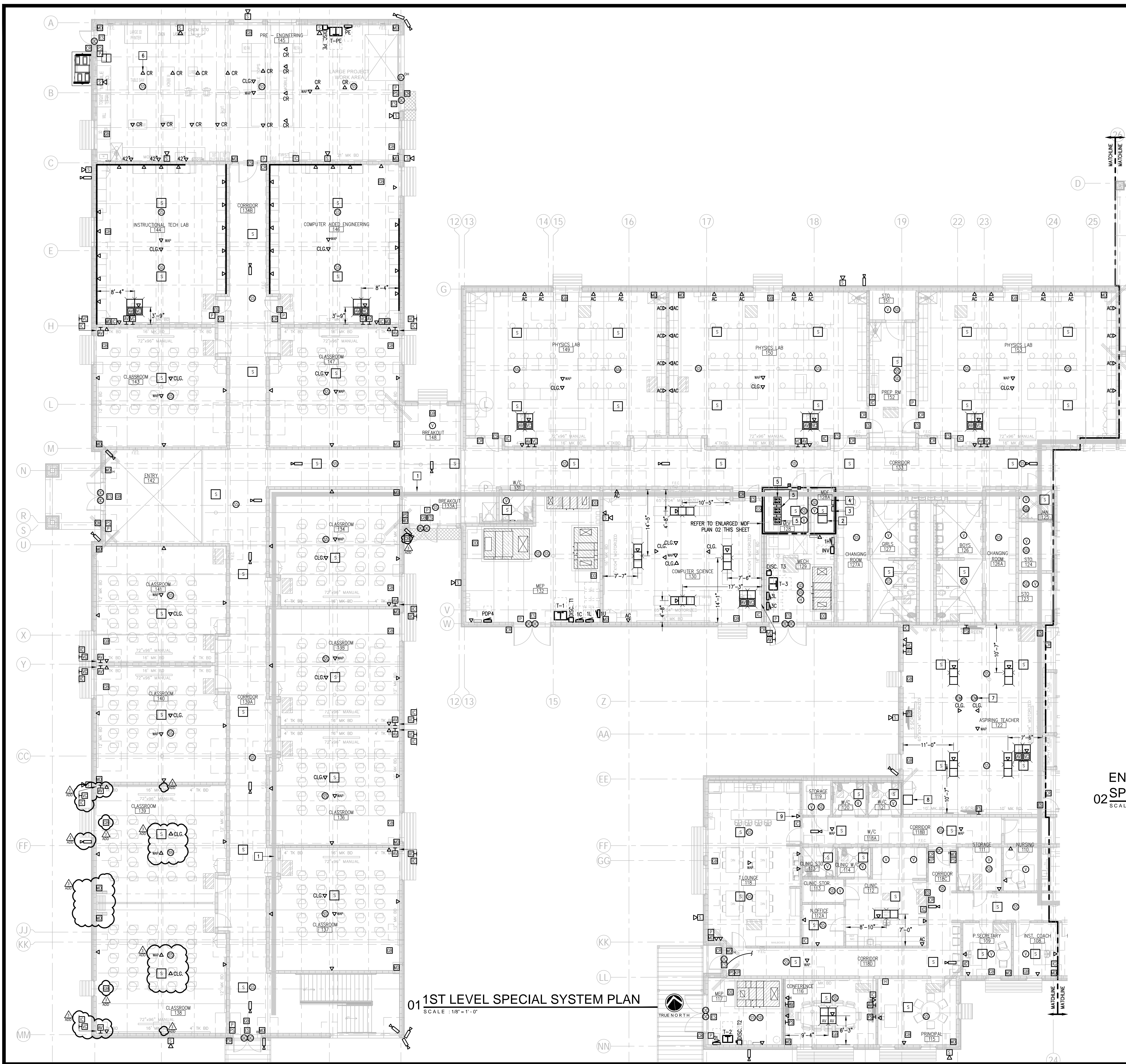
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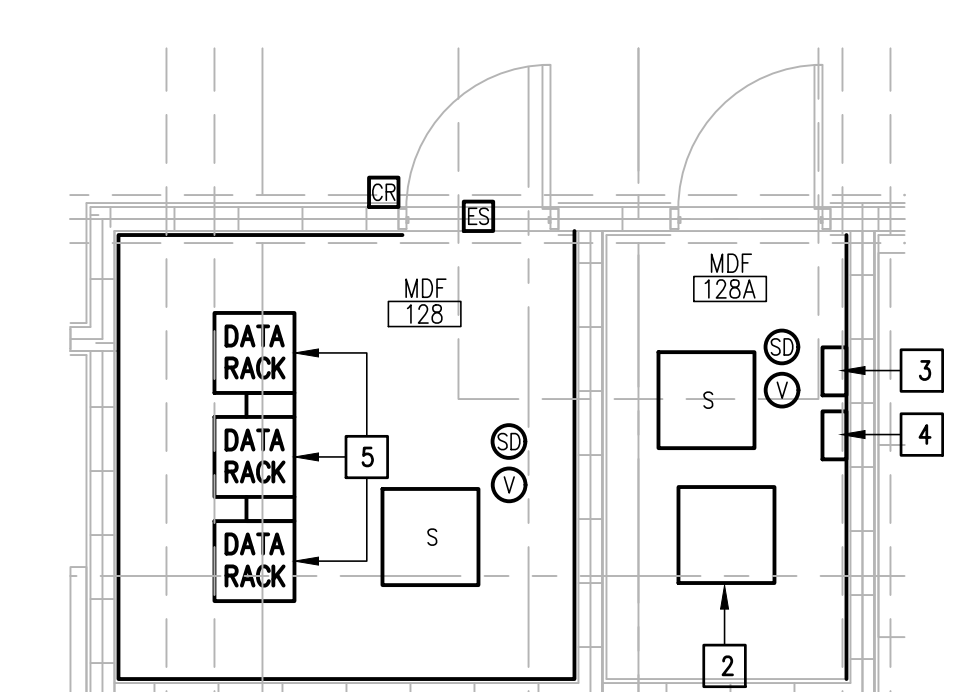
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 Job No: 22073
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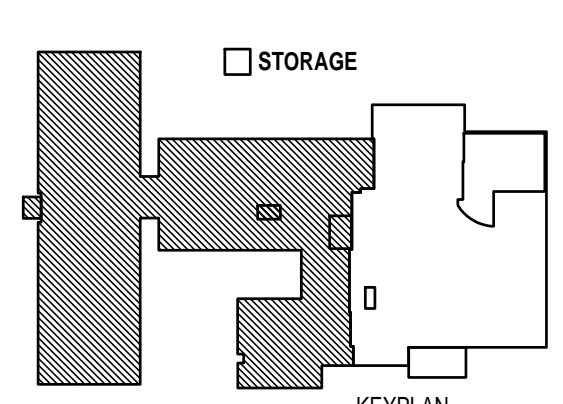
01 1ST LEVEL SPECIAL SYSTEM PLAN
SCALE : 1/8" = 1'-0"

02 ENLARGED MDF 128 AND 128A SPECIAL SYSTEM PLAN
SCALE : 1/4" = 1'-0"



- GENERAL NOTES:**
1. PROVIDE J-HOOKS TO SUPPORT THE FIRE ALARM, INTRUSION DETECTION, VOICE, INTERCOM AND DATA CABLING.
 2. PROVIDE UL LISTED FIRE STOPPING MATERIAL AT ALL FIRE WALL PENETRATIONS; PROVIDE EXPANSION PLATES & BONDING JUMPERS AT BUILDING EXPANSION JOINTS.
 3. PROVIDE 1-2" RACEWAY (SLEEVE) 12" ABOVE CEILING AT ALL CLASSROOMS, RESTROOMS, OFFICES, ETC. DOORS THAT LEAD TO CORRIDORS (FLOOR TO CEILING WALLS) FOR SPECIAL SYSTEMS WIRING.

- KEYED NOTES:**
1. PROVIDE CABLE TRAY - TYPICAL. SEE DETAIL.
 2. PROVIDE INTERCOM SYSTEM RACK MOUNTED.
 3. PROVIDE INTRUSION DETECTION SYSTEM POWER SUPPLY.
 4. PROVIDE FIRE ALARM POWER SUPPLY.
 5. PROVIDE DATA RACK - SEE SPECIFICATIONS.
 6. PROVIDE DATA CORD REEL - TYPICAL. SEE DETAIL 06/E9.02.
 7. PROVIDE BACKBOX FOR CEILING MOUNTED A/V CAMERAS.
 8. PROVIDE WALL MOUNT DATA RACK 12" BELOW CEILING FOR ROOM A/V EQUIPMENT. PROVIDE A FLUSH MOUNTED WIRWAY BEHIND DATA RACK WITH 4-2" RACEWAYS STUBBED UP ABOVE CEILING.
 9. PROVIDE FOR EMPLOYEE TIME CLOCK.



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LTG. CONTACTOR SCHEDULE "LC1":

| POLE | LOAD | VOLTS | AMPS | POLE | CIRCUIT |
|------|----------------------|-------|------|------|----------|
| 1,2 | PARKING LOT LIGHTING | 480 | 20 | 2 | 1H-35,37 |
| 3,4 | PARKING LOT LIGHTING | 480 | 20 | 2 | 1H-12,14 |
| 5,6 | PARKING LOT LIGHTING | 480 | 20 | 2 | 1H-39,41 |
| 7 | SPARE | 277 | 20 | 1 | - |
| 8 | SPARE | 277 | 20 | 1 | - |

NOTES:
 1. CONTACTOR TO BE CONTROLLED BY LUTRON RELAY POWER PAK. INTERLOCK ACCORDINGLY.
 2. PROVIDE 20A, 277V, 8-POLE, NEMA 1, SURFACE MOUNT, ELECTRICALLY HELD LIGHTING CONTACTOR.

LTG. CONTACTOR SCHEDULE "LC2":

| POLE | LOAD | VOLTS | AMPS | POLE | CIRCUIT |
|------|-------------------|-------|------|------|---------|
| 1 | EXTERIOR LIGHTING | 277 | 20 | 1 | 1H-7 |
| 2 | BOLLARD LIGHTING | 277 | 20 | 1 | 1H-18 |
| 3 | FLAG LIGHTING | 277 | 20 | 1 | 1H-20 |
| 4 | EXTERIOR LIGHTING | 277 | 20 | 1 | 1H-22 |
| 5 | EXTERIOR LIGHTING | 277 | 20 | 1 | 1H-24 |
| 6 | BOLLARD LIGHTING | 277 | 20 | 1 | 1H-27 |
| 7 | FACADE LIGHTING | 277 | 20 | 1 | 1H-29 |
| 8 | SPARE | 277 | 20 | 1 | - |

NOTES:
 1. CONTACTOR TO BE CONTROLLED BY LUTRON RELAY POWER PAK. INTERLOCK ACCORDINGLY.
 2. PROVIDE 20A, 277V, 8-POLE, NEMA 1, SURFACE MOUNT, ELECTRICALLY HELD LIGHTING CONTACTOR.

LTG. CONTACTOR SCHEDULE "LC3":

| POLE | LOAD | VOLTS | AMPS | POLE | CIRCUIT |
|-------|------|-------|------|------|-------------|
| 1,2,3 | EW-3 | 480 | 70 | 3 | MC-26,28,30 |

NOTES:
 1. CONTACTOR TO BE CONTROLLED BY LUTRON RELAY POWER PAK. INTERLOCK ACCORDINGLY.
 2. PROVIDE 100A, 277V, 3-POLE, NEMA 1, SURFACE MOUNT, ELECTRICALLY HELD LIGHTING CONTACTOR.

LTG. CONTACTOR SCHEDULE "LC4":

| POLE | LOAD | VOLTS | AMPS | POLE | CIRCUIT |
|------|------|-------|------|------|---------|
| 1,2 | EW-4 | 208 | 30 | 2 | 5L-6,8 |

NOTES:
 1. CONTACTOR TO BE CONTROLLED BY LUTRON RELAY POWER PAK. INTERLOCK ACCORDINGLY.
 2. PROVIDE 30A, 120V, 2-POLE, NEMA 1, SURFACE MOUNT, ELECTRICALLY HELD LIGHTING CONTACTOR.

LTG. CONTACTOR SCHEDULE "LC5":

| POLE | LOAD | VOLTS | AMPS | POLE | CIRCUIT |
|------|------|-------|------|------|---------|
| 1,2 | EW-1 | 208 | 30 | 2 | 3L-8,10 |

NOTES:
 1. CONTACTOR TO BE CONTROLLED BY LUTRON RELAY POWER PAK. INTERLOCK ACCORDINGLY.
 2. PROVIDE 30A, 120V, 2-POLE, NEMA 1, SURFACE MOUNT, ELECTRICALLY HELD LIGHTING CONTACTOR.

LTG. CONTACTOR SCHEDULE "LC6":

| POLE | LOAD | VOLTS | AMPS | POLE | CIRCUIT |
|------|------|-------|------|------|----------|
| 1,2 | EW-2 | 208 | 30 | 2 | 2L-31,33 |

NOTES:
 1. CONTACTOR TO BE CONTROLLED BY LUTRON RELAY POWER PAK. INTERLOCK ACCORDINGLY.
 2. PROVIDE 30A, 120V, 2-POLE, NEMA 1, SURFACE MOUNT, ELECTRICALLY HELD LIGHTING CONTACTOR.

BOOST TRANSFORMER SCHEDULE:

| DESIGN | KVA | PV | SV | DEGREE RISE | CONNECTION | FREQ HZ | SERVES PANELS | CAT. NO. | PRIMARY FEEDER (75°C COPPER) |
|--------|------|-----|---------|-------------|------------|---------|---------------|-------------------------------|------------------------------|
| T-LC | .5 | 208 | 120/240 | 115 | 1# | 60 | LASER CUTTER | SQUARE "D": 500SV43B | 1" - 2#12 & #12 |
| T-LT | 3.30 | 208 | 120/240 | 115 | 3# | 60 | LATHE | SQUARE "D": 100SV43A - 3 QTY. | 3/4" - 4#12 & #12G |
| T-HBS | 3.30 | 208 | 120/240 | 115 | 3# | 60 | BAND SAW | SQUARE "D": 100SV43A - 3 QTY. | 3/4" - 4#12 & #12G |
| T-VBS | 3.30 | 208 | 120/240 | 115 | 3# | 60 | BAND SAW | SQUARE "D": 100SV43A - 3 QTY. | 3/4" - 4#12 & #12G |

GENERAL NOTE: PROVIDE VERTICALLY WALL MOUNTED BEGINNING AT 8'-0" AFF.

TRANSFORMER SCHEDULE:

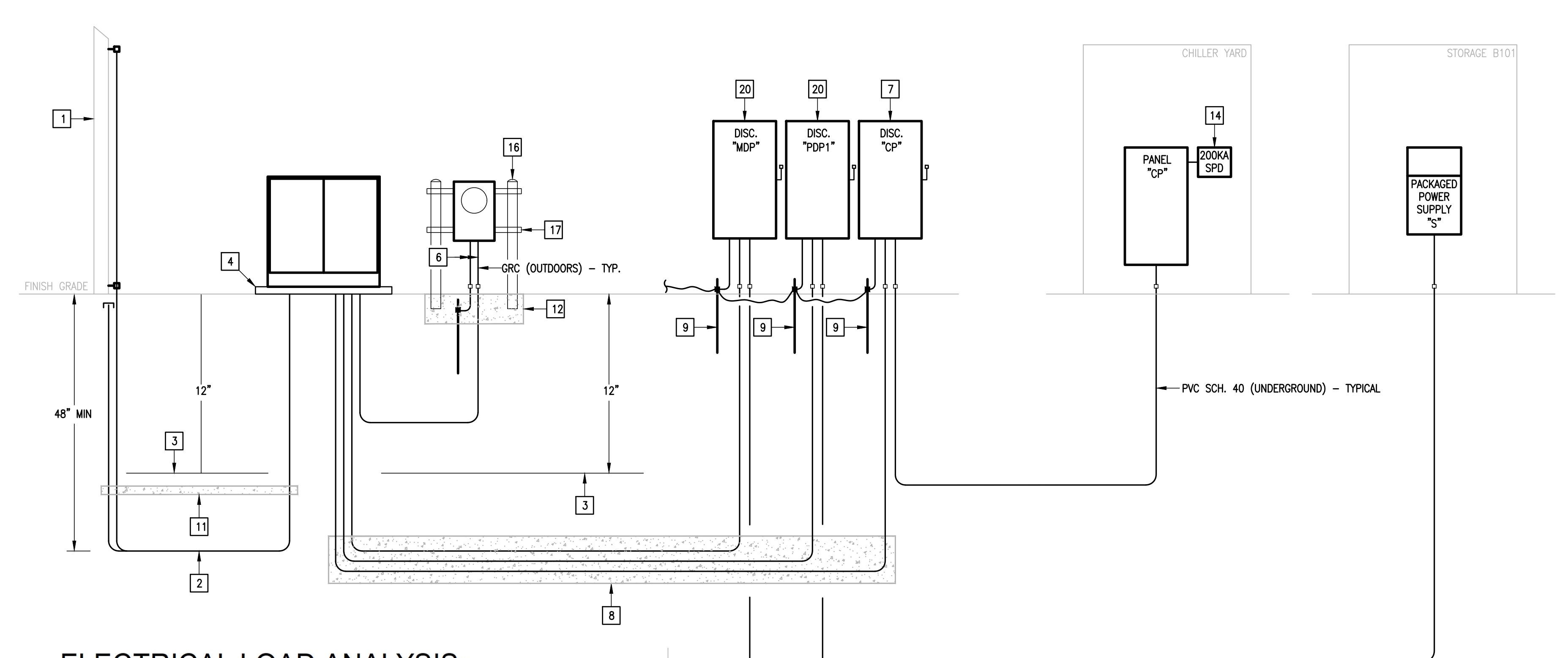
| DESIGN | KVA | PV | SV | DEGREE RISE | CONNECTION | FREQ HZ | SERVES PANELS | CAT. NO. | PRIMARY FEEDER (75°C COPPER) |
|--------|-----|-----|---------|-------------|------------|---------|---------------|---|------------------------------|
| T-1 | 63 | 480 | 120/208 | 115 | DELTA Y | 60 | 1L, 1C | POWER SMITHS: Esaver20M-63-480-208-HD-T115-F60 | 1.5" - 3#2 & #6G |
| T-2 | 45 | 480 | 120/208 | 115 | DELTA Y | 60 | 2L | POWER SMITHS: Esaver20M-45-480-208-HD-T115-F60 | 1.25" - 3#3 & #6G |
| T-3 | 63 | 480 | 120/208 | 115 | DELTA Y | 60 | 3L, 3C | POWER SMITHS: Esaver20M-63-480-208-HD-T115-F60 | 1.5" - 3#2 & #6G |
| T-4 | 30 | 480 | 120/208 | 115 | DELTA Y | 60 | 4L | POWER SMITHS: Esaver20M-30-480-208-HD-T115-F60 | 1" - 3#6 & #10G |
| T-5 | 100 | 480 | 120/208 | 115 | DELTA Y | 60 | 5L, 5C | POWER SMITHS: Esaver20M-100-480-208-HD-T115-F60 | 2" - 3#2/0 & #6G |
| T-PE | 75 | 480 | 120/208 | 115 | DELTA Y | 60 | PE | POWER SMITHS: Esaver20M-75-480-208-HD-T115-F60 | 2" - 3#1/0 & #6G |
| T-K1 | 63 | 480 | 120/208 | 115 | DELTA Y | 60 | K1 | POWER SMITHS: Esaver20M-63-480-208-HD-T115-F60 | 1.5" - 3#2 & #6G |

EXHAUST FAN CONNECTION SCHEDULE:

| DESIGNATION | HP/WATTS | FLA | VOLTAGE | CONNECTION FOR EACH | BRANCH CIRCUIT |
|------------------|----------|------|-------------|--|--------------------|
| 1ST FLOOR | | | | | |
| EF-1 | 108 W | 1.1 | 120V/1PHASE | CONNECT AT CEILING. INTERLOCKING BY HVAC CONTROLS CONTR. | 1/2" - 2#12 & #12G |
| EF-2 | 108 W | 1.1 | 120V/1PHASE | CONNECT AT CEILING. INTERLOCKING BY HVAC CONTROLS CONTR. | 1/2" - 2#12 & #12G |
| EF-3 | 34.4 W | 0.3 | 120V/1PHASE | CONNECT AT CEILING. SWITCH VIA VACANCY SENSOR. | 1/2" - 2#12 & #12G |
| EF-4 | 29.9 W | 0.3 | 120V/1PHASE | CONNECT AT CEILING. SWITCH VIA VACANCY SENSOR. | 1/2" - 2#12 & #12G |
| EF-5 | 34.4 W | 0.3 | 120V/1PHASE | CONNECT AT CEILING. SWITCH VIA VACANCY SENSOR. | 1/2" - 2#12 & #12G |
| EF-6 | 34.4 W | 0.3 | 120V/1PHASE | CONNECT AT CEILING. SWITCH VIA VACANCY SENSOR. | 1/2" - 2#12 & #12G |
| EF-7 | 54.5 W | 0.5 | 120V/1PHASE | CONNECT AT CEILING. SWITCH VIA VACANCY SENSOR. | 1/2" - 2#12 & #12G |
| EF-8 | 57.3 W | 0.5 | 120V/1PHASE | CONNECT AT CEILING. INTERLOCKING BY HVAC CONTROLS CONTR. | 1/2" - 2#12 & #12G |
| EF-9 | 1 HP | 4.6 | 208V/3PHASE | CONNECT ABOVE CEILING. PROVIDE A THERMAL SWITCH. SWITCH VIA OCCUPANCY SENSOR. INTERLOCKING BY HVAC CONTROLS CONTRACTOR TO LAB CONTROL PANEL. | 1/2" - 3#12 & #12G |
| EF-10 | 1 HP | 4.6 | 208V/3PHASE | CONNECT ABOVE CEILING. PROVIDE A THERMAL SWITCH. SWITCH VIA OCCUPANCY SENSOR. INTERLOCKING BY HVAC CONTROLS CONTRACTOR TO LAB CONTROL PANEL. | 1/2" - 3#12 & #12G |
| EF-11 | 1 HP | 4.6 | 208V/3PHASE | CONNECT ABOVE CEILING. PROVIDE A THERMAL SWITCH. SWITCH VIA OCCUPANCY SENSOR. INTERLOCKING BY HVAC CONTROLS CONTRACTOR TO LAB CONTROL PANEL. | 1/2" - 3#12 & #12G |
| EF-12 | 34.4 W | 0.3 | 120V/1PHASE | CONNECT AT CEILING. SWITCH VIA VACANCY SENSOR. | 1/2" - 2#12 & #12G |
| EF-13 | 5.5 HP | 16.7 | 208V/3PHASE | CONNECT AT ROOF. PROVIDE AND SWITCH VIA THERMAL TOGGLE SWITCH. INTERLOCKING BY HVAC CONTROLS CONTR. | 3/4" - 3#8 & #10G |
| EF-14 | 1/3 HP | 7.2 | 120V/1PHASE | CONNECT AT ROOF. PROVIDE AND SWITCH VIA THERMAL TOGGLE SWITCH. INTERLOCKING BY HVAC CONTROLS CONTR. | 1/2" - 2#12 & #12G |
| EF-15 | 1/3 HP | 7.2 | 120V/1PHASE | CONNECT AT ROOF. SWITCH VIA VACANCY SENSOR. INTERLOCKING BY HVAC CONTROLS CONTR. | 1/2" - 2#12 & #12G |
| EF-16 | 34.4 W | 0.3 | 120V/1PHASE | CONNECT AT CEILING. SWITCH VIA VACANCY SENSOR. | 1/2" - 2#12 & #12G |
| 2ND FLOOR | | | | | |
| EF-17 | 108 W | 1.1 | 120V/1PHASE | CONNECT AT CEILING. INTERLOCKING BY HVAC CONTROLS CONTR. | 1/2" - 2#12 & #12G |
| EF-18 | 108 W | 1.1 | 120V/1PHASE | CONNECT AT CEILING. INTERLOCKING BY HVAC CONTROLS CONTR. | 1/2" - 2#12 & #12G |
| EF-19 | 34.4 W | 0.3 | 120V/1PHASE | CONNECT AT CEILING. SWITCH VIA VACANCY SENSOR. | 1/2" - 2#12 & #12G |
| EF-20 | 54.5 W | 0.5 | 120V/1PHASE | CONNECT AT CEILING. SWITCH VIA VACANCY SENSOR. | 1/2" - 2#12 & #12G |
| EF-21 | 1 HP | 4.6 | 208V/3PHASE | CONNECT ABOVE CEILING. PROVIDE A THERMAL SWITCH. SWITCH VIA OCCUPANCY SENSOR. INTERLOCKING BY HVAC CONTROLS CONTRACTOR TO LAB CONTROL PANEL. | 1/2" - 3#12 & #12G |
| EF-22 | 1/3 HP | 7.2 | 120V/1PHASE | CONNECT ABOVE CEILING. INTERLOCKING BY HVAC CONTROLS CONTR. | 1/2" - 2#12 & #12G |
| EF-23 | 1 HP | 4.6 | 208V/3PHASE | CONNECT ABOVE CEILING. PROVIDE A THERMAL SWITCH. SWITCH VIA OCCUPANCY SENSOR. INTERLOCKING BY HVAC CONTROLS CONTRACTOR TO LAB CONTROL PANEL. | 1/2" - 3#12 & #12G |
| EF-24 | 1/3 HP | 7.2 | 120V/1PHASE | CONNECT ABOVE CEILING. SWITCH VIA FUME HOOD SWITCH. INTERLOCKING BY HVAC CONTROLS CONTR. | 1/2" - 2#12 & #12G |
| EF-25 | 1/3 HP | 7.2 | 120V/1PHASE | CONNECT ABOVE CEILING. SWITCH VIA FUME HOOD SWITCH. INTERLOCKING BY HVAC CONTROLS CONTR. | 1/2" - 2#12 & #12G |
| EF-26 | 1/3 HP | 7.2 | 120V/1PHASE | CONNECT ABOVE CEILING. INTERLOCKING BY HVAC CONTROLS CONTR. | 1/2" - 2#12 & #12G |

EQUIPMENT CONNECTION SCHEDULE:

| DESIGN | HP/KW | FLA | MCA | MOCP | VOLTAGE | DISCONNECT | BRANCH CIRCUIT (75°C COPPER) |
|-------------------|------------|----------|-----------|---------|-------------|------------------------------------|------------------------------|
| CH-1 | - | 486.4 | 504 | 600 | 480V/3PHASE | 1) NONE | 2-RUNS 3" - 3#30KCMIL & #16 |
| CH-2 | - | 486.4 | 504 | 600 | 480V/3PHASE | 1) NONE | 2-RUNS 3" - 3#30KCMIL & #16 |
| CH-3 | - | 486.4 | 504 | 600 | 480V/3PHASE | 1) NONE | 2-RUNS 3" - 3#30KCMIL & #16 |
| SCHWP-1 | 30 HP | 40.0 | 50 | 100 | 480V/3PHASE | 2) VARIABLE FREQUENCY DRIVE. | 1.25" - 3#3 & #6G |
| SCHWP-2 | 30 HP | 40.0 | 50 | 100 | 480V/3PHASE | 2) VARIABLE FREQUENCY DRIVE. | 1.25" - 3#3 & #6G |
| AHU-1 | 5 HP X 4 | 7.6 EACH | 9.5 EACH | 20 EACH | 480V/3PHASE | 2) VARIABLE FREQUENCY DRIVE. | 1/2" - 3#12 & #12G EACH |
| AHU-2 | 5 HP X 2 | 7.6 EACH | 9.5 EACH | 20 EACH | 480V/3PHASE | 2) VARIABLE FREQUENCY DRIVE. | 1/2" - 3#12 & #12G EACH |
| AHU-3 | 3 HP | 4.2 | 6.7 | 15 | 480V/3PHASE | 2) VARIABLE FREQUENCY DRIVE. | 1/2" - 3#12 & #12G |
| AHU-4 | 7.5 HP | 9.8 | 14.4 | 30 | 480V/3PHASE | 2) VARIABLE FREQUENCY DRIVE. | 3/4" - 3#10 & #10G |
| AHU-5 | 5 HP X 2 | 7.6 EACH | 9.5 EACH | 20 EACH | 480V/3PHASE | 2) VARIABLE FREQUENCY DRIVE. | 1/2" - 3#12 & #12G EACH |
| AHU-6 | 5 HP | 6.7 | 10.9 | 20 | 480V/3PHASE | 2) VARIABLE FREQUENCY DRIVE. | 1/2" - 3#12 & #12G |
| AHU-7 | 5 HP | 6.7 | 10.9 | 20 | 480V/3PHASE | 2) VARIABLE FREQUENCY DRIVE. | 1/2" - 3#12 & #12G |
| AHU-8 | 7.5 HP X 2 | 11 EACH | 13.8 EACH | 30 EACH | 480V/3PHASE | 2) VARIABLE FREQUENCY DRIVE. | 3/4" - 3#10 & #10G EACH |
| AHU-9 | 5 HP | 6.7 | 10.9 | 20 | 480V/3PHASE | 2) VARIABLE FREQUENCY DRIVE. | 1/2" - 3#12 & #12G |
| AHU-10 | 5 HP X 2 | 7.6 EACH | 9.5 EACH | 20 EACH | 480V/3PHASE | 2) VARIABLE FREQUENCY DRIVE. | 1/2" - 3#12 & #12G EACH |
| AHU-11 | 5 HP | 6.7 | 10.9 | 20 | 480V/3PHASE | 2) VARIABLE FREQUENCY DRIVE. | 1/2" - 3#12 & #12G |
| AHU-12 | 7.5 HP X 2 | 11 EACH | 13.8 EACH | 30 EACH | 480V/3PHASE | 2) VARIABLE FREQUENCY DRIVE. | 3/4" - 3#10 & #10G EACH |
| EDH-3 | 25 KW | 30.1 | - | 40 | 480V/3PHASE | 1) NONE | 3/4" - 3#8 & #10G |
| EDH-7 | 45 KW | 54.2 | - | 70 | 480V/3PHASE | 100A, 3PNF, 600V, NEMA 1. | 1" - 3#4 & #6G |
| EDH-11 | 45 KW | 54.2 | - | 70 | 480V/3PHASE | 100A, 3PNF, 600V, NEMA 1. | 1" - 3#4 & #6G |
| EDH-12 | 80 KW | 96.3 | - | 125 | 480V/3PHASE | 1) NONE | 1.25" - 3#1 & #6G |
| VAV1-1,4,5,6 | 24 KW | 28.9 | - | 40 | 480V/3PHASE | 60A, 3PNF, 600V, S/N, NEMA 1 EACH. | 3/4" - 4#8 & #10G |
| VAV1-2,3,6 | 19 KW | 22.9 | - | 30 | 480V/3PHASE | 30A, 3PNF, 600V, S/N, NEMA 1 EACH. | 3/4" - 4#10 & #10G |
| VAV1-7,9,10,11,12 | 28 KW | 33.7 | - | 45 | 480V/3PHASE | 60A, 3PNF, 600V, S/N, NEMA 1 EACH. | 3/4" - 4#8 & #10G |
| VAV1-13 | 2 KW | 7.2 | - | 20 | 277V/1PHASE | 30A, 2PNF, 600V, S/N, NEMA 1. | 1/2" - 2#12 & #12G |
| VAV2-1,2,3 | 34 KW | 40.1 | - | 60 | 480V/3PHASE | 60A, 3PNF, 600V, S/N, NEMA 1 EACH. | 1" - 4#6 & #10G |
| VAV4-1,2 | 28 KW | 33.7 | - | 45 | 480V/3PHASE | 60A, 3PNF, 600V, S/N, NEMA 1 EACH. | 3/4" - 4#8 & #10G |
| VAV5-1,5,5,8,9 | 25 KW | 30.1 | - | 40 | 480V/3PHASE | 60A, 3PNF, 600V, S/N, NEMA 1 EACH. | 3/4" - 4#8 & #10G |
| VAV5-2 | 2 KW | 7.2 | - | 20 | 277V/1PHASE | 30A, 2PNF, 600V, S/N, NEMA 1. | 1/2" - 2#12 & #12G |
| VAV5-4 | 2 KW | 7.2 | - | 20 | 277V/1PHASE | 30A, 2PNF, 600V, S/N, NEMA 1. | 1/2" - 2#12 & #12G |
| VAV5-6 | 2 KW | 7.2 | - | 20 | 277V/1PHASE | 30A, 2PNF, 600V, S/N, NEMA 1. | 1/2" - 2#12 & #12G |
| VAV5-7 | 1 KW | 3.6 | - | 20 | 277V/1PHASE | 30A, 2PNF, 600V, S/N, NEMA 1. | 1/2" - 2#12 & #12G |
| VAV5-10 | 2 KW | 7.2 | - | 20 | 277V/1PHASE | 30A, 2PNF, 600V, S/N, NEMA 1. | 1/2" - 2#12 & #12G |
| VAV6-1,2 | 18 KW | 21.7 | - | 30 | 480V/3PHASE | 30A, 3PNF, 600V, S/N, NEMA 1 EACH. | 3/4" - 4#10 & #10G |
| VAV6-3,5,7,9 | 20 KW | 24 | - | 35 | 480V/3PHASE | 60A, 3PNF, 600V, S/N, NEMA 1 EACH. | 3/4" - 4#8 & #10G |
| VAV6-1,2,4,6,8,10 | 36 KW | 43.3 | - | 60 | 480V/3PHASE | 60A, 3PNF, 600V, S/N, NEMA 1 EACH. | 1" - 4#6 & #10G |
| VAV9-1,2, VAV10-4 | 31 KW | 37.3 | - | 50 | 480V/3PHASE | 60A, 3PNF, 600V, S/N, NEMA 1 EACH. | 3/4" - 4#8 & #10G |
| VAV10-1,2,3 | 29 KW | 34.9 | - | 45 | 480V/3PHASE | 60A, 3PNF, 600V, S/N, NEMA 1 EACH. | 3/4" - 4#8 & #10G |
| FCU-1 | 1/4HP | - | - | 2 | 208V/1PHASE | 1) NONE | 1/2" - 2#12 & #12G |
| ACCU-1 | - | - | - | 13 | | | |



ELECTRICAL RISER DIAGRAM
 KEYED NOTES:

- 1 ELECTRIC UTILITY DIP POLE.
- 2 PROVIDE (2) 4" PVC CONDUITS. PROVIDE LONG SWEEP RADIUS ELBOWS.
- 3 PROVIDE CONTINUOUS DETECTABLE UNDERGROUND WARNING TAPE.
- 4 PROVIDE UTILITY TRANSFORMER CONCRETE PAD - SEE DETAIL.
- 5 PROVIDE STEP-DOWN TRANSFORMER AND 4" CONCRETE HOUSEKEEPING PAD - TYPICAL.
- 6 PROVIDE 1.25" - #6.
- 7 PROVIDE 1200A, 3P3F, 600V, 1200AF, S/N, NEMA 3R DISCONNECT.
- 8 PROVIDE CONCRETE ENCASED. SEE DETAIL 02/E7.01.
- 9 SEE GROUNDING RISER DIAGRAM - TYPICAL.
- 10 PROVIDE 100A, 3PNF, 600V, NEMA 1 DISCONNECT.
- 11 PROVIDE 2" RED CONCRETE TOPPING.
- 12 24" WIDE X 24" LONG X 24" DEEP (4" ABOVE GRADE) CONCRETE FOOTING WITH #4 REBAR WELDED ON TO 4" DIA. STEEL PIPE.
- 13 PROVIDE LABORATORY SAFETY DEVICE SYSTEM CONTACTOR ENCLOSURE.
- 14 PROVIDE 200KA EXTERNALLY MOUNTED SPD ACT COMMUNICATIONS # ACT471-277-200-F-C1.
- 15 PROVIDE POWER METER, SHARK MODEL NO. ENCSHK200-120-60-10-V2-02-IMP100S-X (400A, 277/480V, 3 PHASE, NEMA 1 ENCLOSURE).
- 16 4" DIA. X 6" (ABOVE GROUND) HOT DIP GALV. STEEL PIPE WITH CAP.
- 17 3-1/4" X 1-5/8", 12 GAUGE UNISTRUT, HOT DIP GALV. AFTER FABRICATION.
- 18 PROVIDE 200A, 3PNF, 600V, NEMA 1 DISCONNECT.
- 19 PROVIDE 1.5" RACEWAY WITH PULLWIRE FOR BACKNET COMMUNICATION. STUB UP ABOVE ACCESSIBLE CEILING SPACE.
- 20 PROVIDE 800A, 3P3F, 600V, 800AF, S/N, NEMA 3R DISCONNECT.

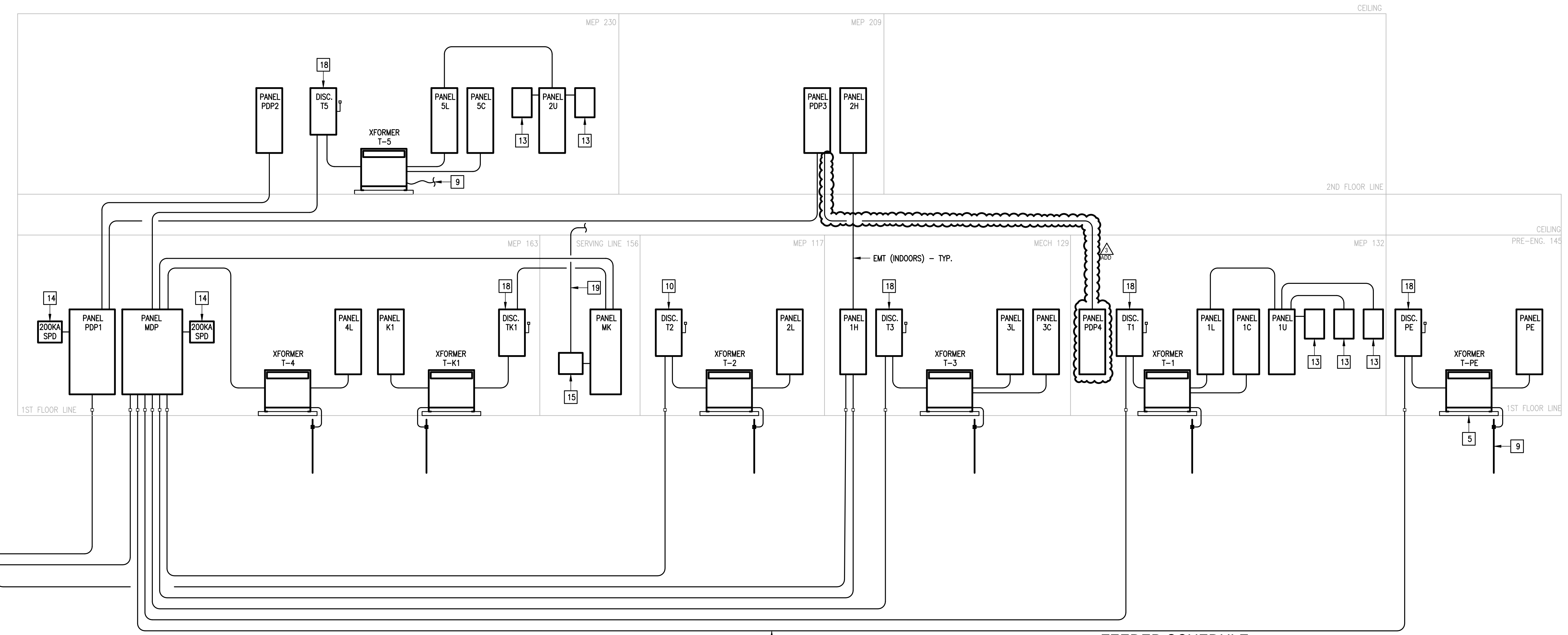
RACEWAYS EMBEDDED IN
 FOUNDATION GENERAL NOTES:

- RACEWAYS EMBEDDED WITHIN THE SLAB SHALL COMPLY WITH THE FOLLOWING:
1. SHALL HAVE A MINIMUM SPACING OF 2".
 2. SHALL NOT BE LARGER THAN 1".
 3. SHALL NOT BE RUN THROUGH THE SURFACE AREA OF THE FOOTING.
 4. SHALL NOT BE CROSSED OVER/UNDER EACH OTHER WITH THE SLAB.
 5. SHALL NOT BE TIED TO THE REBAR.
 6. SHALL BE A MINIMUM OF 1.5" AWAY FROM SLAB REBAR. IF SPACING CANNOT BE ACCOMPLISHED, IT SHALL BE PROVIDED BELOW SLAB.

ELECTRICAL LOAD ANALYSIS:

ELECTRICAL SERVICE: 277/480V, 3 PHASE, 4 WIRE

| LOAD | KVA (CON.) | DEMAND FACTOR | NEC ARTICLE | KVA (CAL.) |
|----------------------|------------|---------------|---------------|------------|
| LIGHTING LOAD | 49.8 | X 1.25 | 220.42 | = 62.1 |
| LARGEST MOTOR | 33.3 | X 0.25 | 220.50/430.24 | = 8.3 |
| MOTORS | 205 | X 1.00 | 220.50/430.24 | = 205.0 |
| RECEPTACLES | 288 | X 50% > 10 | 220.44 | = 148.0 |
| CONTINUOUS | 20.2 | X 1.25 | 215.2(A) | = 25.3 |
| NONCONTINUOUS | 92.9 | X 1.00 | 215.2(A) | = 92.9 |
| KITCHEN | 145 | X 0.65 | 220.56 | = 94.3 |
| HEATING | 502 | X 0.00 | 220.60 | = 0.0 |
| COOLING | 929 | X 1.00 | 220.60 | = 929.0 |
| TOTAL KVA | | | | 1,565 |
| TOTAL WIRE SIZE AMPS | | | | 2000 |



MDP

ROOM OUTDOORS VOLTS 480Y/277V 3P 4W AIC 65,000
 MOUNTING SURFACE BUS AMPS 800 MAIN BKR MLO
 FED FROM UTILITY NEUTRAL 100% LUGS STANDARD
 NOTE: PROVIDE A TYPE WRITTEN AS BUILT DIRECTORY THAT INCLUDES ROOM NUMBERS.

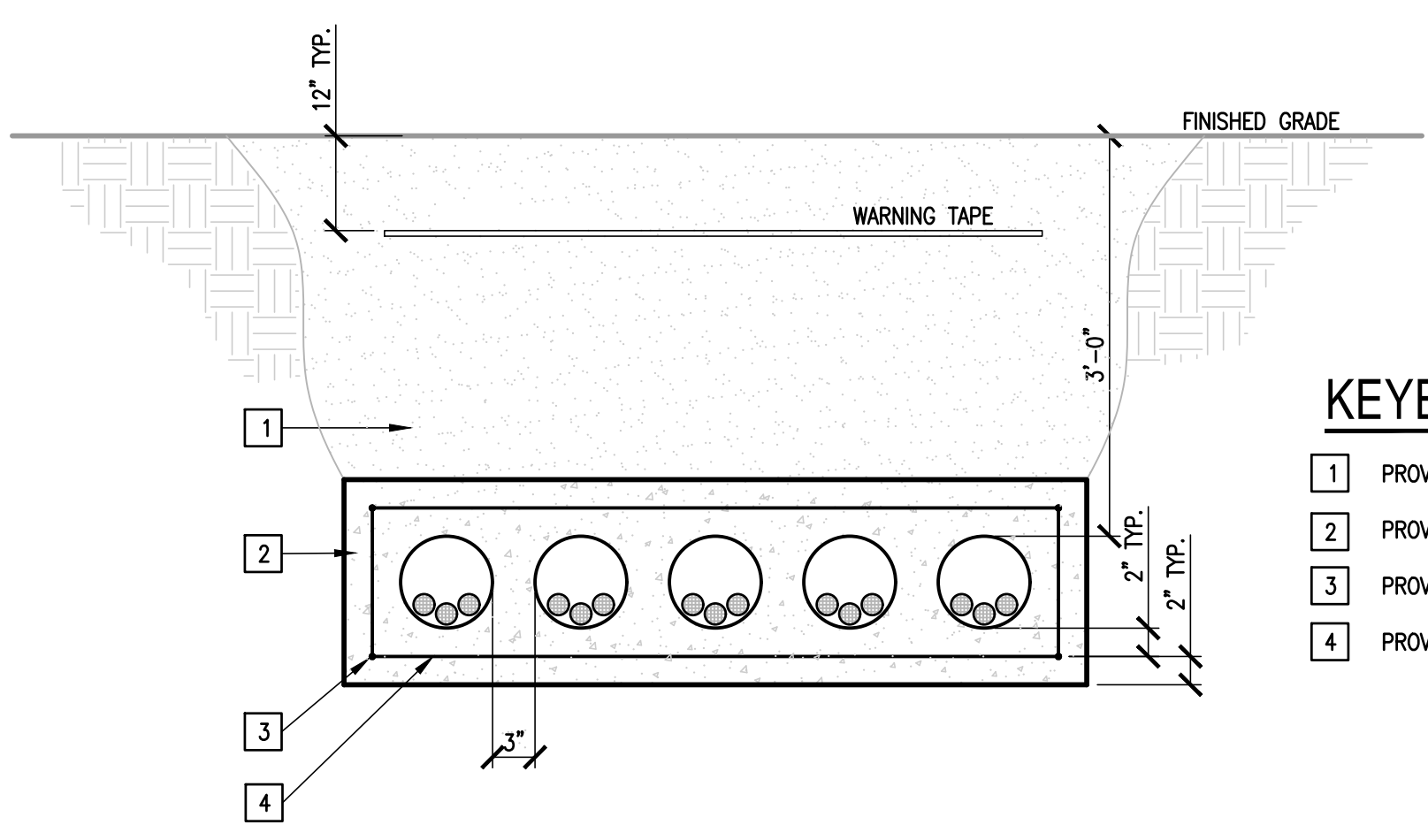
| CKT # | CKT BKR | CIRCUIT DESCRIPTION | LOAD KVA | | | CKT # | CKT BKR | CIRCUIT DESCRIPTION | LOAD KVA | | |
|---------------|---------|---------------------|------------------------------|------|------|-----------------------|---------|---------------------|----------|------|------|
| | | | A | B | C | | | | A | B | C |
| 1 | 100/3 | PANEL 1H | 18.4 | 18.8 | 19.3 | 2 | 350/3 | PANEL MK | 92.9 | 96.3 | 96.1 |
| 3 | | | | | | 4 | | | | | |
| 5 | | | | | | 6 | | | | | |
| 7 | 110/3 | *XFMR T-1 (63KVA) | 28.6 | 32.4 | 25.9 | 8 | 60/3 | *XFMR T-4 (30KVA) | 7.39 | 6.05 | 5.08 |
| 9 | | | | | | 10 | | | | | |
| 11 | 90/3 | *XFMR T-2 (45KVA) | 17 | 15.6 | 15.5 | 12 | 175/3 | *XFMR T-5 (100KVA) | 35.1 | 31.4 | 36 |
| 13 | | | | | | 14 | | | | | |
| 15 | | | | | | 16 | | | | | |
| 17 | 110/3 | *XFMR T-3 (63KVA) | 18.3 | 22.4 | 20.8 | 18 | 150/3 | *XFMR T-PE (75KVA) | 35.3 | 32.3 | 29.7 |
| 19 | | | | | | 20 | | | | | |
| 21 | | | | | | 22 | | | | | |
| 23 | | | | | | 24 | | | | | |
| 25 | 60/3 | SPD | 0 | 0 | 0 | 26 | 60/3 | SPACE | 0 | 0 | 0 |
| 27 | | | | | | 28 | | | | | |
| 29 | | | | | | 30 | | | | | |
| 31 | 20/1 | SPARE | 0 | 0 | 0 | 32 | 100/3 | SPACE | 0 | 0 | 0 |
| 33 | 20/1 | SPARE | 0 | 0 | 0 | 34 | | | | | |
| 35 | 20/1 | SPARE | 0 | 0 | 0 | 36 | | | | | |
| 37 | 20/1 | SPARE | 0 | 0 | 0 | 38 | 20/1 | SPARE | 0 | 0 | 0 |
| 39 | 20/1 | SPARE | 0 | 0 | 0 | 40 | 20/1 | SPARE | 0 | 0 | 0 |
| 41 | 20/1 | SPARE | 0 | 0 | 0 | 42 | 20/1 | SPARE | 0 | 0 | 0 |
| | | | TOTAL CONNECTED KVA BY PHASE | | | | | | 253 | 255 | 248 |
| CONN KVA | | | CALC KVA | | | CONN KVA | | | CALC KVA | | |
| LIGHTING | | | 49.5 | | | KITCHEN EQUIPMENT | | | 145 | | |
| LARGEST MOTOR | | | 17.5 | | | CONTINUOUS | | | 20.2 | | |
| MOTORS | | | 84 | | | NONCONTINUOUS | | | 92.9 | | |
| RECEPTACLES | | | 289 | | | HEATING | | | 57.6 | | |
| | | | | | | COOLING | | | 18.9 | | |
| | | | | | | TOTAL LOAD | | | 570 | | |
| | | | | | | BALANCED 3-PHASE LOAD | | | 685 A | | |

* PROVIDE ELECTRONIC TYPE WITH L.S.I. DIALS.

FEEDER SCHEDULE:

| FEEDER AMPS | CONDUIT AND FEEDER | FEEDING THESE DEVICES |
|-------------|----------------------------------|-------------------------------|
| 40 | 1" - 4#8 & #10G | 2H |
| 40 | 1" - 3#8 & #10G | S |
| 80 | 1.25" - 4#4 & #6G | 1U, 2U |
| 90 | 1.25" - 3#3 & #6G | DISC. T2 |
| 100 | 1.25" - 4#3 & #6G | 1C, 1H, 4L, 5C, PDP4 |
| 110 | 1.5" - 3#2 & #6G | DISC. T1, DISC. T3, DISC. TK1 |
| 125 | 1.5" - 4#1 & #6G | 3C, 3L |
| 150 | 2" - 4#1/0 & #6G | 2L |
| 150 | 2" - 3#1/0 & #6G | DISC. PE |
| 175 | 2" - 4#2/0 & #6G | 1L, K1 |
| 175 | 2" - 3#2/0 & #6G | DISC. T5 |
| 225 | 2.5" - 4#4/0 & #4G | 5L |
| 250 | 3" - 4#250KCMIL & #4G | PE |
| 300 | 3" - 4#350KCMIL & #4G | PDP2 |
| 350 | 3" - 4#500KCMIL & #3G | MK |
| 400 | 4" - 4#600KCMIL & #3G | PDP3 |
| 800 | (2-RUNS) 4" - 4#600KCMIL | DISC. PDP1, DISC. MDP |
| 800 | (2-RUNS) 4" - 4#600KCMIL & #1/0G | PDP1, MDP |
| 1200 | (3-RUNS) 4" - 4#600KCMIL | DISC. CP |
| 1200 | (3-RUNS) 4" - 4#600KCMIL & #3/0G | CP |

SIZING METHOD: COPPER 75°C

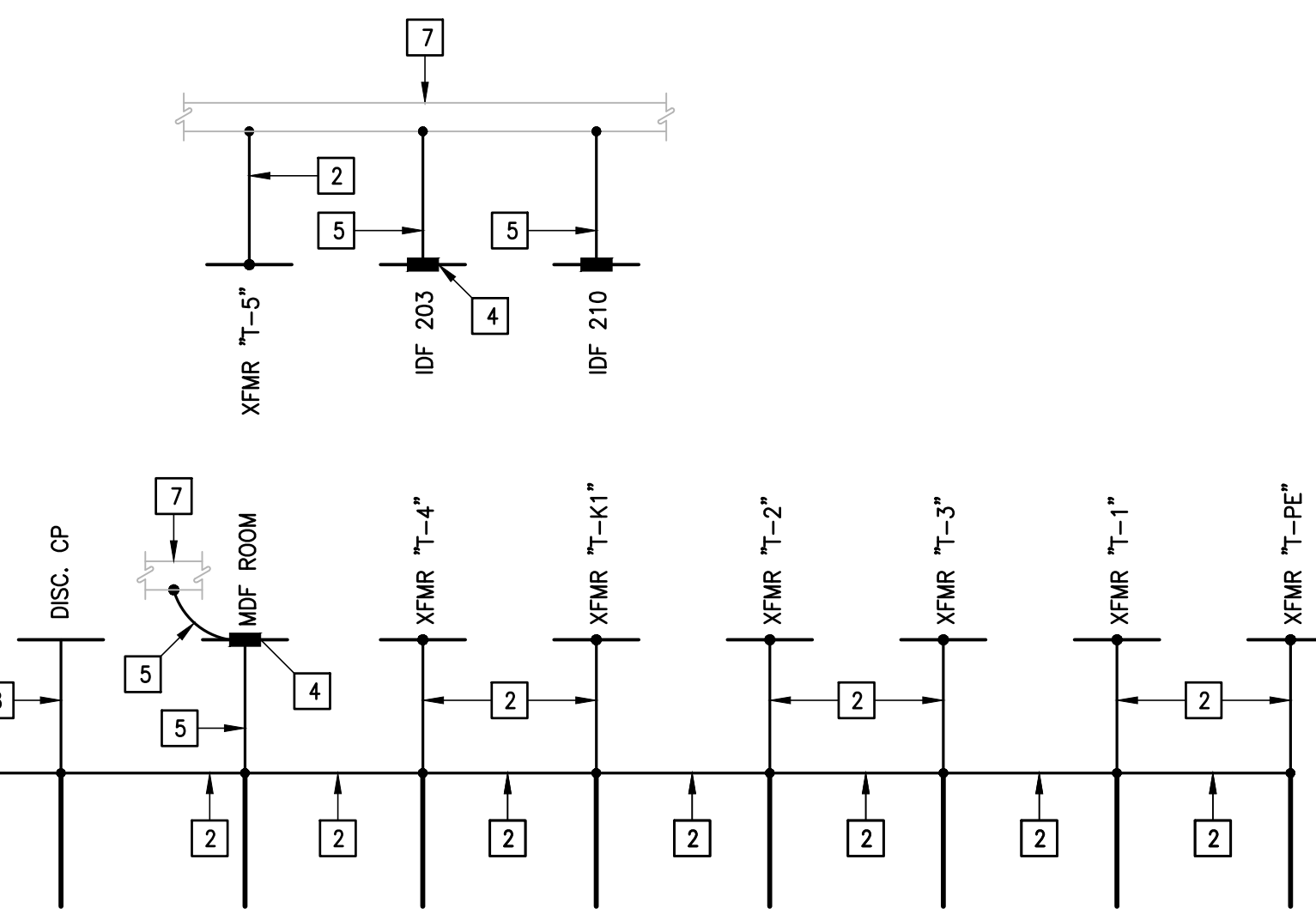


02 SECONDARY POWER
 CONCRETE ENCASEMENT DETAIL
 SCALE: NONE

KEYED NOTES:

- 1 PROVIDE SELECT FILL 95% COMPACTION.
- 2 PROVIDE RED CONCRETE (USE FORMS).
- 3 PROVIDE #4 REBAR @ EACH CORNER.
- 4 PROVIDE #3 REBAR TIES @ 8"-0" O.C.

01 ELECTRICAL RISER DIAGRAM
 SCALE: NONE



03 GROUNDING RISER DIAGRAM
 SCALE: NONE

GROUNDING RISER
 KEYED NOTES:

- 1 3/4" X 10" COPPER CLAD GROUND RODS - TYPICAL.
- 2 #1/0 BARE COPPER GROUND ELECTRODE CONDUCTOR.
- 3 CADCWELD CONNECT TO BUILDING REBAR STRUCTURE STEEL AND COPPER WATER LINE.
- 4 GROUNDING BUS BAR - TYPICAL.
- 5 #4 BARE COPPER GROUND CONDUCTOR.
- 6 #6 BARE COPPER GROUND CONDUCTOR.
- 7 CADCWELD TO BUILDING STRUCTURE STEEL.
- 8 #500KCMIL BARE COPPER GROUND ELECTRODE CONDUCTOR.
- 9 CADCWELD CONNECT TO REBAR AND STRUCTURE STEEL.



1150 Parkers Line Rd.
 Brownsville TX 78526
 (956) 546-0110
 fax (956) 546-0196

UTRGV/ EDINBURG CISD
 COLLEGIATE HIGH SCHOOL



Date: September 08, 2022
 Scale: As Noted
 Project Architect: As Noted
 Drawn By: David Monreal, AIA
 Job No.: J.P.
 Sheet: 22/23

| S | | | | | | | | | | | |
|---|---------|----------------------|------------------------------|---|---------------|----------|---------|---------------------|------------|------|---|
| ROOM | | VOLTS 208/120V 2P 3W | | | AIC 10,000 | | | | | | |
| MOUNTING SURFACE | | BUS AMPS 60 | | | MAIN BKR 40 | | | | | | |
| FED FROM 1H | | NEUTRAL 100% | | | LUGS STANDARD | | | | | | |
| NOTE: PROVIDE A TYPE WRITTEN AS BUILT DIRECTORY THAT INCLUDES ROOM NUMBERS. | | | | | | | | | | | |
| CKT # | CKT BKR | CIRCUIT DESCRIPTION | LOAD KVA | | | CKT # | CKT BKR | CIRCUIT DESCRIPTION | LOAD KVA | | |
| | | | A | B | C | | | | A | B | C |
| 1 | 20/1 | LIGHTING | 0.108 | | | 2 | 20/1 | RECEPT. | 0.36 | | |
| 3 | 20/1 | SPACE | | | | 4 | 20/1 | RECEPT. | | 0.54 | |
| 5 | 20/1 | SPACE | 0 | | | 6 | 20/1 | SPACE | 0 | | 0 |
| 7 | 20/1 | SPACE | 0 | 0 | | 8 | 20/1 | SPACE | 0 | 0 | |
| 9 | 20/1 | SPACE | 0 | 0 | | 10 | 20/1 | SPACE | 0 | 0 | |
| 11 | 20/1 | SPACE | 0 | 0 | | 12 | 20/1 | SPACE | 0 | 0 | |
| | | | TOTAL CONNECTED KVA BY PHASE | | | | | | 0.468 | 0.54 | |
| | | | CONN KVA | | | CALC KVA | | | TOTAL LOAD | | |
| LARGEST MOTOR | | | 0.108 | | | (25%) | | | 1.04 | | |
| COOLING | | | 0.9 | | | (50%>10) | | | 4.98 A | | |

- PROVIDE NEMA 3R ENCLOSURE.
- PROVIDE PACKAGED POWER SUPPLY WITH INTEGRAL 7.5KVA TRANSFORMER, 30A/2P 480V PRIMARY MCB AND 40A/2P 240V SECONDARY MCB.

| CP | | | | | | | | | | | |
|--|---------|-----------------------|------------------------------|-------|---------------|----------|---------|---------------------|------------|-----|-----|
| ROOM | | VOLTS 480Y/277V 3P 4W | | | AIC 65,000 | | | | | | |
| MOUNTING SURFACE | | BUS AMPS 1200 | | | MAIN BKR MLO | | | | | | |
| FED FROM UTILITY | | NEUTRAL 100% | | | LUGS STANDARD | | | | | | |
| NOTE: PROVIDE PHENOLIC CIRCUIT BREAKER IDENTIFICATION NAMETAGS PER SPECIFICATIONS. | | | | | | | | | | | |
| CKT # | CKT BKR | CIRCUIT DESCRIPTION | LOAD KVA | | | CKT # | CKT BKR | CIRCUIT DESCRIPTION | LOAD KVA | | |
| | | | A | B | C | | | | A | B | C |
| 1 | 600/3 | CH-1 | 135 | | | 2 | 600/3 | CH-2 | 135 | | |
| 3 | | | 135 | | | 4 | | | | 135 | 135 |
| 5 | | | | | | 6 | | | | | |
| 7 | 600/3 | CH-3 | 0.003 | | 135 | 8 | 60/3 | SPD | 0 | | 0 |
| 9 | | | | 0.003 | | 10 | | | | 0 | 0 |
| 11 | | | | | 0.003 | 12 | | | | 0 | 0 |
| 13 | 20/3 | SPARE | 0 | | | 14 | 40/3 | SPARE | 0 | | 0 |
| 15 | | | 0 | | | 16 | | | 0 | | 0 |
| 17 | | | 0 | | | 18 | | | 0 | | 0 |
| 19 | 20/1 | SPACE | 0 | | | 20 | 20/1 | SPACE | 0 | | 0 |
| | | | TOTAL CONNECTED KVA BY PHASE | | | | | | 269 | 269 | 269 |
| | | | CONN KVA | | | CALC KVA | | | TOTAL LOAD | | |
| LARGEST MOTOR | | | 33.3 | | | (25%) | | | 817 | | |
| COOLING | | | 808 | | | (100%) | | | 982 A | | |

- PROVIDE A NEMA 3R OUTDOOR ENCLOSURE.

| PE | | | | | | | | | | | |
|---|---------|-----------------------|------------------------------|-------|---------------|-----------------------|---------|---------------------|------------|-------|-------|
| ROOM | | VOLTS 208Y/120V 3P 4W | | | AIC 10,000 | | | | | | |
| MOUNTING SURFACE | | BUS AMPS 400 | | | MAIN BKR 250 | | | | | | |
| FED FROM T-PE | | NEUTRAL 100% | | | LUGS STANDARD | | | | | | |
| NOTE: PROVIDE A TYPE WRITTEN AS BUILT DIRECTORY THAT INCLUDES ROOM NUMBERS. | | | | | | | | | | | |
| CKT # | CKT BKR | CIRCUIT DESCRIPTION | LOAD KVA | | | CKT # | CKT BKR | CIRCUIT DESCRIPTION | LOAD KVA | | |
| | | | A | B | C | | | | A | B | C |
| 1 | 20/1 | RECEPT. | 1.6 | | | 2 | 20/1 | RECEPT. | 1.6 | | |
| 3 | 20/1 | RECEPT. | | 1.6 | | 4 | 20/1 | SPACE | | 0 | 1.56 |
| 5 | 20/1 | SPACE | | | 0 | 6 | 20/2 | 3D PRINTER | | | |
| 7 | 20/1 | RECEPT. | 1.6 | | | 8 | | | | 1.56 | |
| 9 | 20/1 | RECEPT. | 1.6 | 1.6 | | 10 | 20/1 | RECEPT. | 1.6 | 1.6 | 1.6 |
| 11 | 20/1 | RECEPT. | | | 1.6 | 12 | 20/1 | RECEPT. | | | 1.6 |
| 13 | 20/1 | RECEPT. | 1.6 | 1.6 | | 14 | 20/1 | RECEPT. | 1.6 | 1.6 | 1.6 |
| 15 | 20/1 | RECEPT. | | | 1.6 | 16 | 20/1 | RECEPT. | | | 1.6 |
| 17 | 20/1 | RECEPT. | 1.6 | 1.6 | 1.6 | 18 | 20/1 | DRILL PRESS | 1.6 | 1.6 | 1.66 |
| 19 | 20/1 | RECEPT. | 1.6 | 1.6 | | 20 | 20/1 | RECEPT. | 1.6 | 1.6 | |
| 21 | 20/1 | RECEPT. | 1.6 | 1.6 | 0 | 22 | 20/1 | RECEPT. | 1.6 | 1.6 | 5.82 |
| 23 | 20/1 | SPACE | | | 0 | 24 | 125/3 | C-1 | | | |
| 25 | 20/1 | RECEPT. | 0.36 | | | 26 | | | 5.82 | 5.82 | |
| 27 | 20/1 | RECEPT. | | 1.78 | | 28 | | | | | |
| 29 | 20/1 | RECEPT. | 1.2 | 1.2 | 0 | 30 | 20/2 | LASER CUTTER | 1.56 | 1.56 | |
| 31 | 20/1 | RECEPT. | 1.2 | 1.2 | | 32 | | | 2.11 | 2.11 | |
| 33 | 20/1 | RECEPT. | 1.2 | 1.2 | | 34 | 45/3 | (5.SHP) EF-13 | | | |
| 35 | 20/1 | RECEPT. | | 1.2 | 1.2 | 36 | | | | 2.11 | 2.11 |
| 37 | 20/1 | RECEPT. | 1.2 | 1.2 | | 38 | 20/1 | (1/3HP) EF-14 | | 0.864 | 2.22 |
| 39 | 20/1 | RECEPT. | 1.2 | 1.2 | 1.2 | 42 | 25/2 | IEWH-1 | | | 2.22 |
| 41 | 20/1 | RECEPT. | 1.2 | 1.2 | | 44 | | | | 0 | 0.864 |
| 43 | 20/1 | RECEPT. | 1.2 | 1.2 | 0.18 | 46 | 20/1 | SPACE | | | 0.864 |
| 45 | 20/1 | RECEPT. | | | 0.18 | 48 | 20/1 | (1/3HP) EF-15 | | | |
| 47 | 20/1 | RECEPT. | 2.88 | | | 50 | 20/2 | 3D PRINTER | 1.56 | 1.56 | |
| 49 | 30/3 | OVEN | | 2.88 | | 52 | | | 1.56 | 1.56 | 0.942 |
| 51 | | | | 2.88 | | 54 | 20/3 | BAND SAW | | 0.942 | 0.942 |
| 53 | | | | 2.88 | | 56 | | | | | |
| 55 | 60/3 | SPARE | 0 | | | 58 | | | 0.942 | 0.942 | 0 |
| 57 | | | 0 | | | 60 | 20/1 | SPARE | | | 0 |
| 59 | | | 0 | | | 62 | 20/1 | SPARE | | | 0 |
| 61 | 20/3 | BAND SAW | 0.582 | 0.582 | | 64 | 20/1 | SPARE | | | 0 |
| 63 | | | | 0.582 | | 66 | 20/1 | SPARE | | | 0 |
| 65 | | | | 0.582 | | 68 | 20/1 | SPARE | | | 0 |
| 67 | 20/3 | LATHE | 0.942 | 0.942 | | 70 | 20/1 | SPARE | | | 0 |
| 69 | | | | 0.942 | | 72 | 20/1 | SPARE | | | 0 |
| 71 | | | | 0.942 | | | | | | | |
| | | | TOTAL CONNECTED KVA BY PHASE | | | | | | 35.3 | 32.3 | 29.7 |
| | | | CONN KVA | | | CALC KVA | | | TOTAL LOAD | | |
| LARGEST MOTOR | | | 17.5 | | | (25%) | | | 60 | | |
| MOTORS | | | 32.9 | | | (100%) | | | 4.44 | | |
| | | | | | | RECEPTACLES | | | 35 | | |
| | | | | | | NONCONTINUOUS | | | 4.44 | | |
| | | | | | | TOTAL LOAD | | | 76.7 | | |
| | | | | | | BALANCED 3-PHASE LOAD | | | 213 A | | |

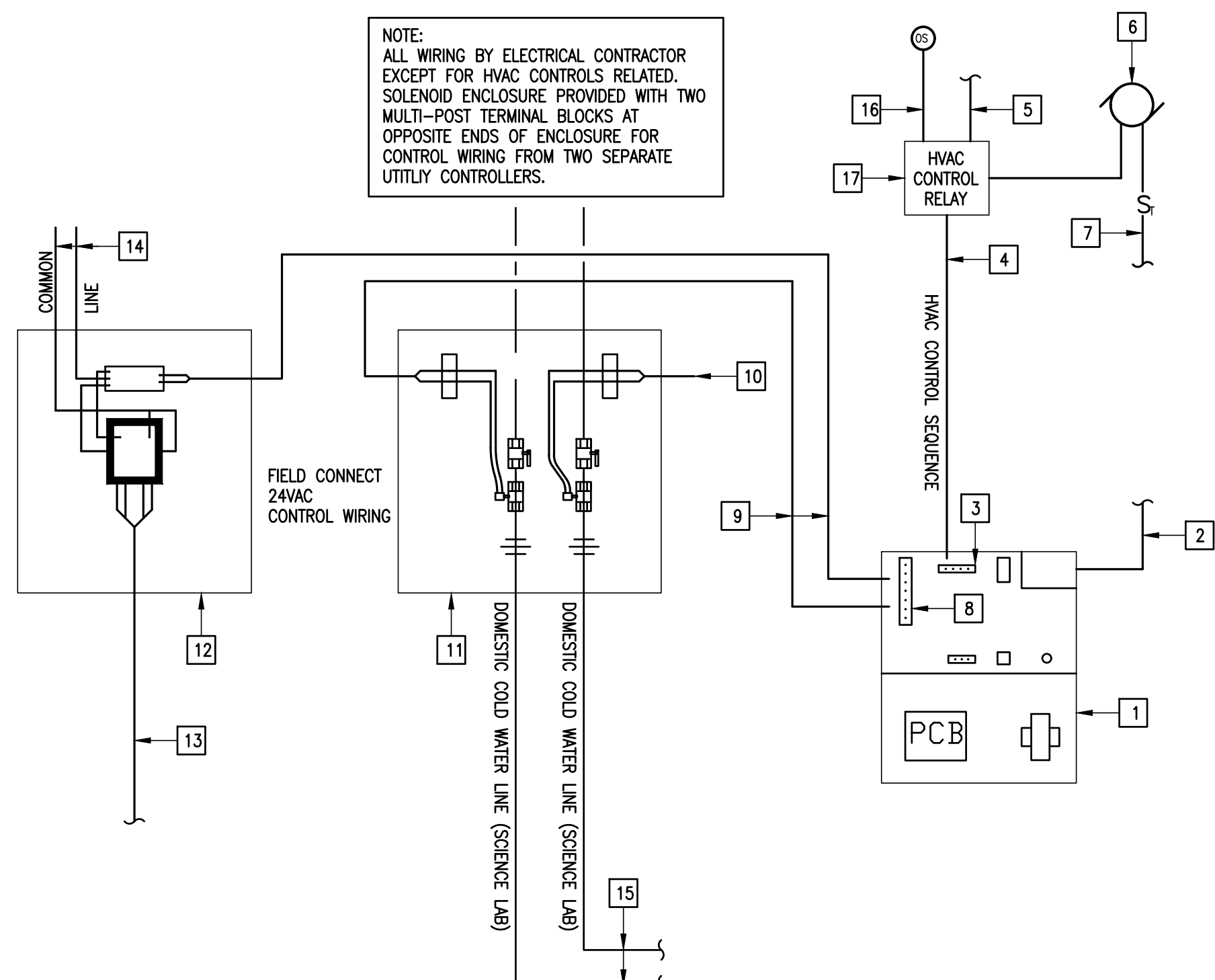
- PROVIDE WITH SHUNT TRIP MAIN BREAKER INTERLOCKED WITH RED KNOB EMERGENCY PUSH BUTTONS.

| 2U | | | | | | | | | | | |
|---|---------|-----------------------|------------------------------|-------|---------------|----------|---------|---------------------|------------|-------|-------|
| ROOM | | VOLTS 208Y/120V 3P 4W | | | AIC 10,000 | | | | | | |
| MOUNTING SURFACE | | BUS AMPS 100 | | | MAIN BKR 80 | | | | | | |
| FED FROM SL | | NEUTRAL 100% | | | LUGS STANDARD | | | | | | |
| NOTE: PROVIDE A TYPE WRITTEN AS BUILT DIRECTORY THAT INCLUDES ROOM NUMBERS. | | | | | | | | | | | |
| CKT # | CKT BKR | CIRCUIT DESCRIPTION | LOAD KVA | | | CKT # | CKT BKR | CIRCUIT DESCRIPTION | LOAD KVA | | |
| | | | A | B | C | | | | A | B | C |
| 1 | 20/1 | RECEPT. | 0.36 | | | 2 | 20/1 | RECEPT. | 0.36 | | |
| 3 | 20/1 | RECEPT., USB RECEPT. | | 0.54 | | 4 | 20/1 | RECEPT. | | 0.36 | 0.72 |
| 5 | 20/1 | USB RECEPT. | | | 0.72 | 6 | 20/1 | USB RECEPT. | | | 0.72 |
| 7 | 20/1 | USB RECEPT. | 0.36 | | | 8 | 20/1 | USB RECEPT. | 0.36 | | 0.54 |
| 9 | 20/1 | RECEPT. | | 0.54 | | 10 | 20/1 | RECEPT. | | 0.54 | 0.54 |
| 11 | 20/1 | RECEPT. | | | 0.54 | 12 | 20/1 | RECEPT. | | | 0.54 |
| 13 | 20/1 | RECEPT. | 0.54 | 0.54 | | 14 | 20/1 | RECEPT. | 0.54 | 0.54 | 0.54 |
| 15 | 20/1 | RECEPT. | | | 0.54 | 16 | 20/1 | RECEPT. | | | 0.54 |
| 17 | 20/1 | RECEPT. | 0.54 | 0.54 | | 18 | 20/1 | RECEPT. | 0.54 | 0.54 | 0.54 |
| 19 | 20/1 | RECEPT. | 0.54 | 0.54 | | 20 | 20/1 | RECEPT. | 0.54 | 0.54 | 0.72 |
| 21 | 20/1 | RECEPT. | 0.54 | 0.72 | | 22 | 20/1 | RECEPT. | 0.54 | 0.72 | 0.864 |
| 23 | 20/1 | SPACE | | | 0 | 24 | 20/1 | (1/3HP) EF-22 | | | |
| 25 | 20/1 | (1/3HP) EF-25 | 0.864 | 0.864 | | 26 | 20/1 | (1/3HP) EF-24 | 0.864 | 0 | 0.864 |
| 27 | 20/1 | (1/3HP) EF-25 | | | | 28 | 20/1 | SPACE | | | 0 |
| 29 | 20/1 | SPACE | | | 0 | 30 | 20/1 | SPACE | | | 0 |
| 31 | 20/1 | SPACE | | | 0 | 32 | 20/1 | SPACE | | | 0 |
| 33 | 20/1 | SPACE | | | 0 | 34 | 20/1 | SPACE | | | 0 |
| 35 | 20/1 | SPACE | | | 0 | 36 | 20/1 | SPACE | | | 0 |
| 37 | 20/3 | (1HP) EF-21 | 0.582 | 0.582 | | 38 | 20/3 | (1HP) EF-23 | 0.582 | 0.582 | 0.582 |
| 39 | | | | 0.582 | | 40 | | | | | |
| 41 | | | | 0.582 | | 42 | | | | | |
| | | | TOTAL CONNECTED KVA BY PHASE | | | | | | 6.49 | 6.53 | 5.63 |
| | | | CONN KVA | | | CALC KVA | | | TOTAL LOAD | | |
| LARGEST MOTOR | | | 1.75 | | | (25%) | | | 6.95 | | |
| RECEPTACLES | | | 11.7 | | | (50%>10) | | | 10.9 | | |
| TOTAL LOAD | | | | | | | | | 18.2 | | |
| BALANCED 3-PHASE LOAD | | | | | | | | | 50.6 A | | |

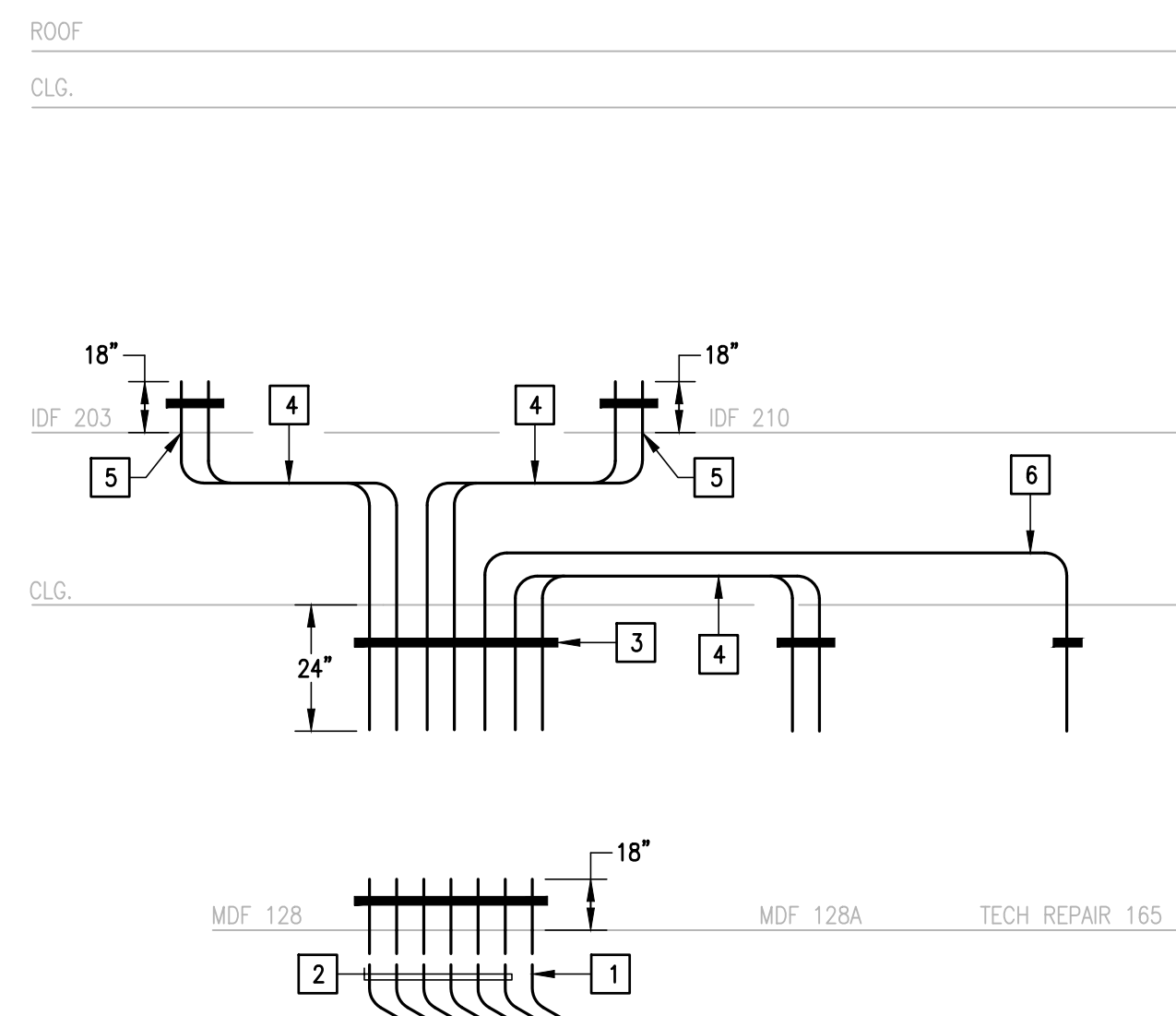
| 5L | | | | | | | | | | | |
|---|---------|-----------------------|----------|-------|---------------|-------|---------|----------------------|----------|-------|------|
| ROOM | | VOLTS 208Y/120V 3P 4W | | | AIC 10,000 | | | | | | |
| MOUNTING SURFACE | | BUS AMPS 225 | | | MAIN BKR 225 | | | | | | |
| FED FROM T-5 | | NEUTRAL 100% | | | LUGS STANDARD | | | | | | |
| NOTE: PROVIDE A TYPE WRITTEN AS BUILT DIRECTORY THAT INCLUDES ROOM NUMBERS. | | | | | | | | | | | |
| CKT # | CKT BKR | CIRCUIT DESCRIPTION | LOAD KVA | | | CKT # | CKT BKR | CIRCUIT DESCRIPTION | LOAD KVA | | |
| | | | A | B | C | | | | A | B | C |
| 3 | 20/1 | SPARE | 0 | | | 2 | 20/1 | RECEPT., USB RECEPT. | 1.8 | 0.9 | |
| 4 | 20/1 | RECEPT. | 0.9 | | | 4 | 20/1 | RECEPT. | | | 3 |
| 5 | 20/1 | RECEPT., USB RECEPT. | 1.8 | | | 6 | 40/2 | EW-4 | | | |
| 7 | 20/1 | IG DUPLEX | 0.25 | | | 8 | | | | 1.08 | 1.08 |
| 9 | 20/1 | RECEPT. | 0.54 | | | 10 | 20/1 | RECEPT. | | | |
| 11 | 20/1 | RECEPT. | 0.54 | 0.54 | | 12 | 20/1 | RECEPT. | 0.54 | 1.08 | 1.08 |
| 13 | 20/1 | PROJ. SCREEN | 0.1 | | | 14 | 20/1 | RECEPT. | | | |
| 15 | 20/1 | RECEPT. | 0.18 | | | 16 | 20/1 | PROJ. SCREEN | 0.54 | 0.1 | 0.1 |
| 17 | 20/1 | RECEPT. | 0.36 | | | 18 | 20/1 | CP-4 | | | |
| 19 | 20/1 | RECEPT., USB RECEPT. | 1.62 | | | 20 | 20/1 | HAND DRYER | 1.5 | 1.5 | 1.5 |
| 21 | 20/1 | DRINKING FOUNTAIN | 0.8 | | | 22 | 20/1 | HAND DRYER | 1.5 | 1.5 | 1.5 |
| 23 | 20/1 | DRINKING FOUNTAIN | 0.8 | 0.8 | | 24 | 20/1 | HAND DRYER | 1.5 | 1.5 | 1.5 |
| 25 | 20/1 | EF-17, EF-18, RECEPT. | 0.6 | 0.18 | | 26 | 20/1 | HAND DRYER | 1.5 | 1.5 | 1.5 |
| 27 | 20/1 | RECEPT. | 0.079 | 0.30 | | 28 | 20/1 | HAND DRYER | 1.5 | 1.5 | 1.5 |
| 29 | 20/1 | EF-19, LIGHTING | 0.142 | 0.348 | | 30 | 20/1 | HAND DRYER | 1.5 | 1.5 | 1.5 |
| 31 | 20/1 | FCU-2 | | | | 32 | 20/1 | USB RECEPT. | 0.72 | 0.72 | 2 |
| 33 | 15/2 | | 0.348 | 0.348 | | 34 | 20/1 | USB RECEPT. | 0.72 | 0.72 | 2 |
| 35 | | | | | | 36 | 25/2 | IEWH-5 | | | |
| 37 | 20/1 | MOTORIZED SHADE | 0.6 | | | 38 | | | 2 | 1.5 | 3 |
| 39 | 20/1 | FLAT SCREEN | 0.216 | | | 40 | 20/1 | HAND DRYER | 1.5 | 1.5 | 3 |
| 41 | 20/1 | LIGHTING | 0.9 | 0.9 | | 42 | 25/1 | RO/ID | 0.999 | 0.999 | 3 |
| 43 | 20/1 | LIGHTING | 0.6 | 0.348 | | 44 | 15/2 | * ACCU-WAC-1, WAC-1 | | | |
| 45 | 15/2 | | | | | 46 | | | | | |
| 47 | 20/2 | * ACCU-1 | 1.08 | | | 48 | 20/1 | | | | |

KEYED NOTES:

- 1 PROVIDE UTILITY CONTROLLER WITH PANIC BUTTON (PURGE), FIELD CONFIGURE CONTROLS SYSTEM. FAN NORMAL SPEED TO BE 1/4 OCCUPANCY SENSOR.
- 2 PROVIDE 120VAC POWER SUPPLY WIRING IN CONDUIT MAKE CONNECTION @ J-BOX.
- 3 PROVIDE ENERGY MANAGEMENT CONTROL CONTACTOR TO MAKE CONNECTIONS TO TERMINAL 1.
- 4 PROVIDE 1/2" EMT AND CONTROL WIRING FROM AIR HANDLING DEVICE.
- 5 TO HVAC CONTROL PANEL.
- 6 EXHAUST FAN BY MECHANICAL CONTRACTOR. EXHAUST FAN SHALL ACTIVATE HIGH SPEED TO PURGE MODE ON PANIC. PROVIDE ADDITIONAL LOW SPEED CONTROL SWITCH. SEE CONTROLS SEQUENCE.
- 7 PROVIDE 208V, 3Ø LINE & NEUTRAL FROM PANELBOARD.
- 8 CONNECT OUTPUT CIRCUIT WIRING TO TERMINAL 2.
- 9 PROVIDE 1/2" EMT FIELD INSTALLED. PROVIDE NEW 18AWG TO EACH SOLENOID AND RELAY.
- 10 TO ADJACENT LAB UTILITY CONTROLLER.
- 11 PROVIDE SOLENOID ENCLOSURE.
- 12 PROVIDE CONTACTOR ENCLOSURE.
- 13 PROVIDE 120VAC TO CONVENIENCE OUTLETS AT STUDENT WORK STATIONS.
- 14 PROVIDE 120V FROM PANELBOARD.
- 15 PROVIDE CONNECTIONS TO SCIENCE LAB TABLES - TYPICAL.
- 16 PROVIDE OCCUPANCY SENSOR AND CONTROL WIRE LUTRON MODEL NO. LOS-CDT-2000-WH.
- 17 HVAC CONTROL RELAY BY DIV. 23.



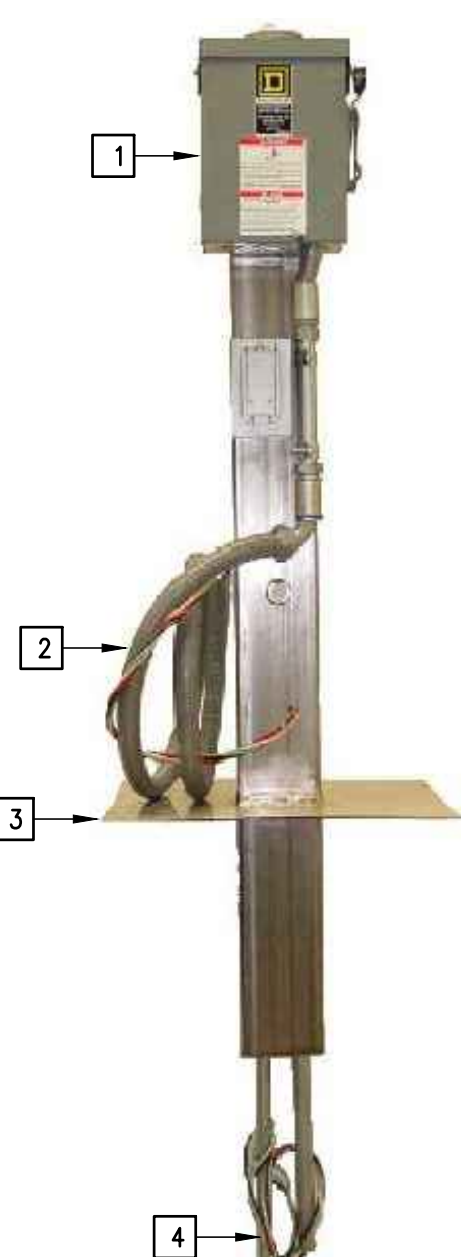
01 TYPICAL SCIENCE LAB UTILITY CONTROLS DETAIL
SCALE: NOT TO SCALE



03 SPECIAL SYSTEMS RACEWAYS DETAIL
SCALE: NOT TO SCALE

KEYED NOTES:

- 1 PROVIDE RACEWAYS WITH PULLWIRE (FIBER OPTIC CABLE BY OWNER). SEE SHEET MEP1.01.
- 2 PROVIDE SPECIAL SYSTEMS RACEWAYS. SEE SITE PLAN FOR QUANTITIES.
- 3 PROVIDE UNISTRUT WALL BRACKET AS REQUIRED. SECURE RACEWAYS WITH "U" CLAMPS - TYPICAL.
- 4 PROVIDE 1-4" RACEWAY WITH PULLWIRE (FIBER OPTIC CABLE BY OWNER) AND 1-4" WITH PULLWIRE (SPARE). ROUTE ABOVE ACCESSIBLE CEILING SPACE.
- 5 PROVIDE SLEEVES THROUGH FLOOR.
- 6 PROVIDE 1-4" RACEWAY WITH PULLWIRE (FIBER OPTIC CABLE BY OWNER). ROUTE ABOVE ACCESSIBLE CEILING SPACE.

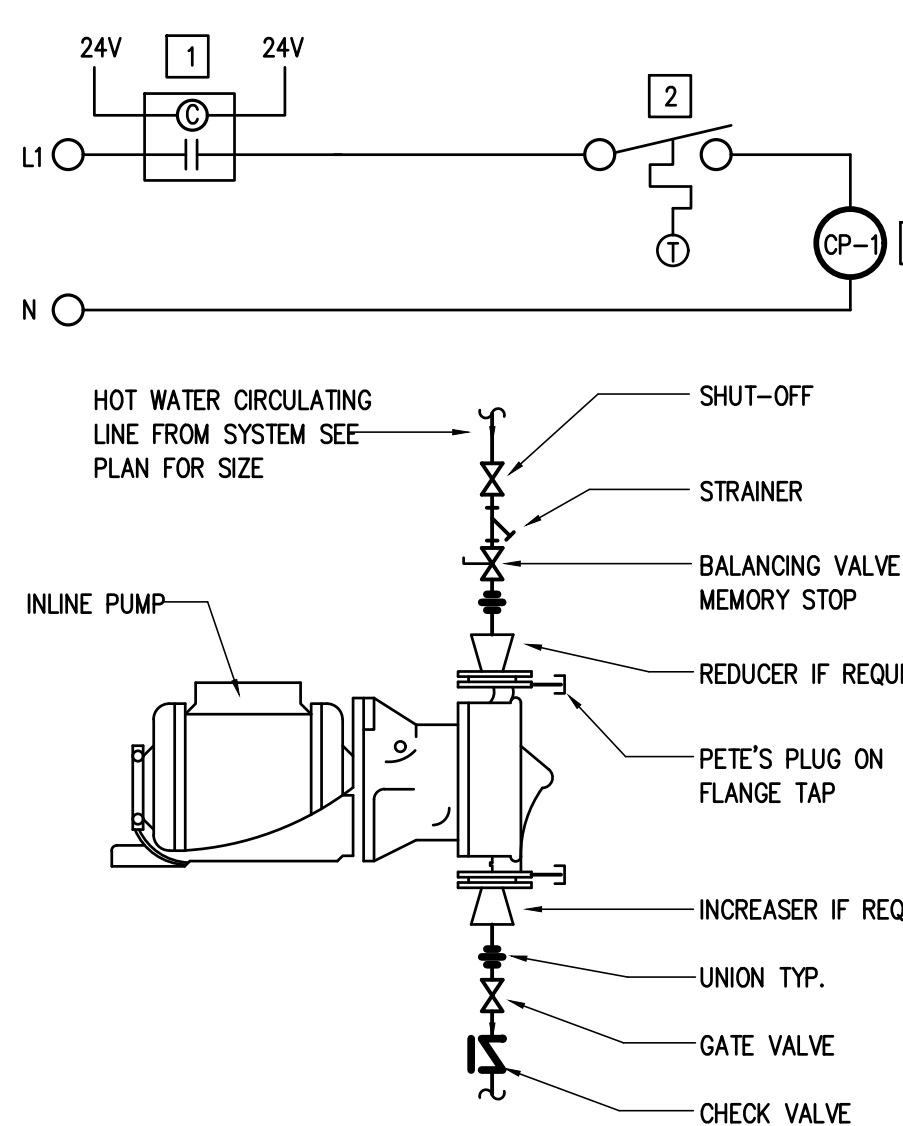


04 ACCU ON ROOF DISCONNECT PEDESTAL DETAIL
SCALE: NONE

KEYED NOTES:

- 1 PROVIDE ROOF TOP PEDESTAL DISCONNECT MAPA PRODUCTS MODEL NO. MP1-30-32-42/12-G-10C-NF-. REFER TO EQUIPMENT CONNECTION SCHEDULE FOR AMPERAGE.
- 2 FLEXIBLE CONNECTION TO HVAC EQUIPMENT.
- 3 SECURE TO BUILDING STRUCTURAL STEEL.
- 4 CONNECT TO POWER SOURCE.

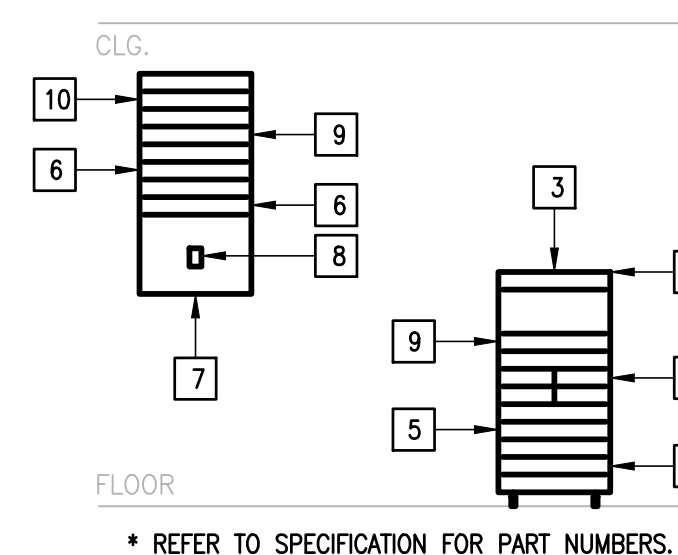
GENERAL NOTES:
COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO MAKING ANY NEW PENETRATIONS THROUGH ROOF IN ORDER TO MEET EQUIPMENT REQUIRED CLEARANCES.



05 CIRCULATING PUMP WIRING SCHEMATIC & DETAIL
SCALE: NOT TO SCALE

NOTES:

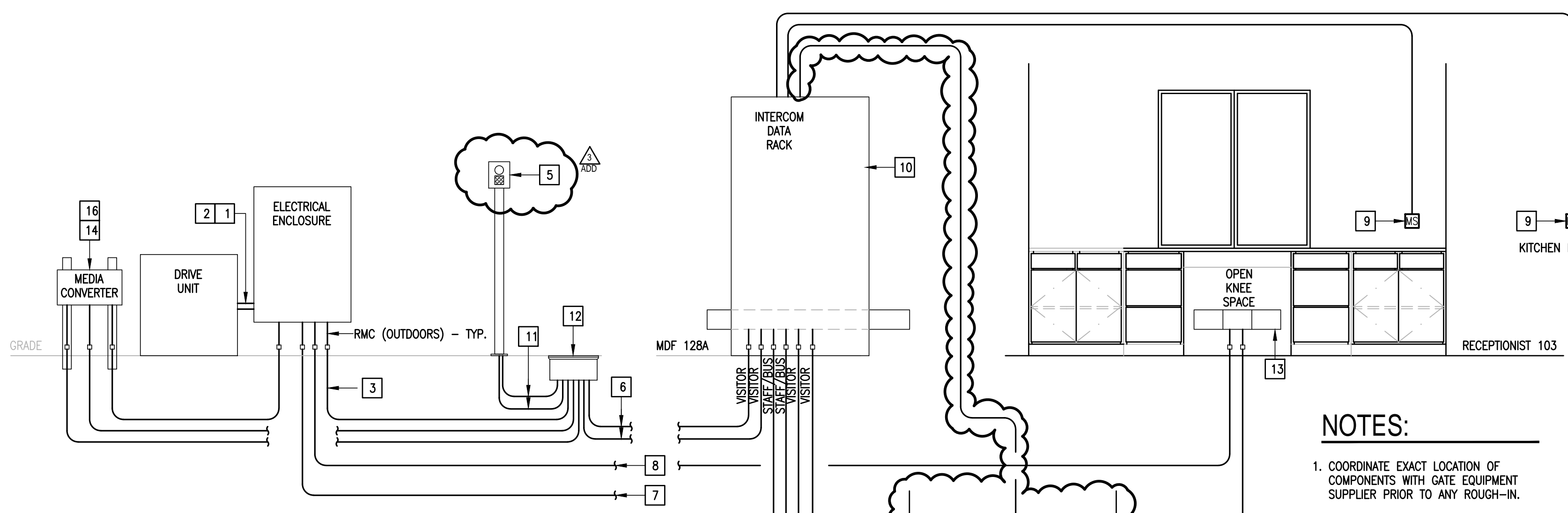
- 1 PROVIDE TIME CLOCK TO CONTROL PUMP.
- 2 LINE VOLTAGE AQUASTAT CONTROLLER FURNISHED AND INSTALLED BY PLUMBING CONTRACTOR. CONNECTED BY ELECTRICAL CONTRACTOR. AQUASTAT CLOSURES WHEN STORAGE TANK WATER TEMPERATURE DROPS BELOW 120°F (ADJ.).
- 3 CIRCULATING PUMP FURNISHED AND INSTALLED BY PLUMBING CONTRACTOR. POWERED BY DIV. 26.



06 CAFETORIUM SOUND SYSTEM RACK RISER DETAIL
SCALE: NOT TO SCALE

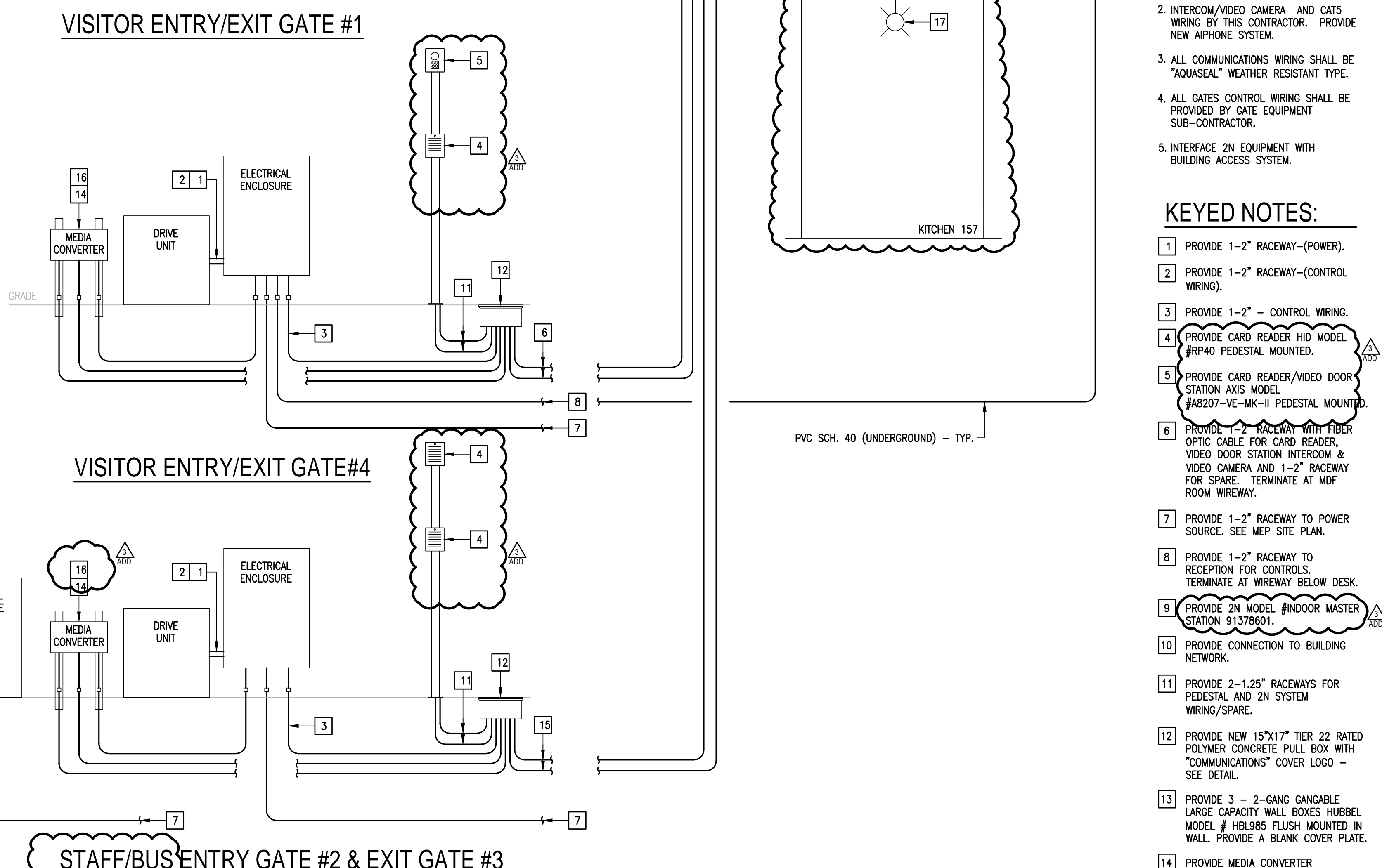
KEYED NOTES:

- 1 PROVIDE WHEELED CART.
- 2 PROVIDE SIGNAL PROCESSOR.
- 3 PROVIDE USER INTERFACE TOUCH PANEL.
- 4 PROVIDE MICROPHONE WIRELESS TRANSMITTER.
- 5 PROVIDE ASSISTIVE LISTENING TRANSMITTER.
- 6 PROVIDE AMPLIFIER.
- 7 PROVIDE WALL MOUNT RACK.
- 8 PROVIDE 120V DEDICATED CIRCUIT.
- 9 PROVIDE SEQUENCER.
- 10 PROVIDE PRESENTATION CONTROL SYSTEM.



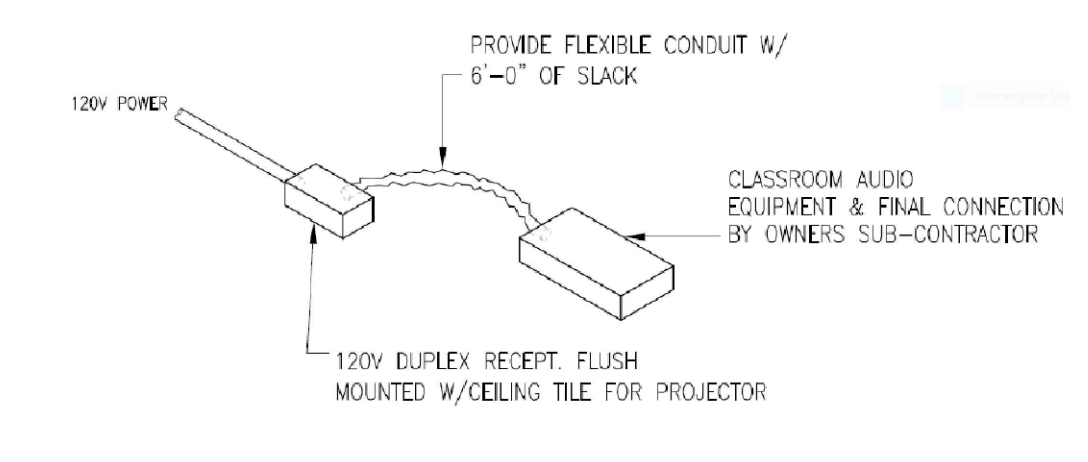
VISITOR ENTRY/EXIT GATE #1

VISITOR ENTRY/EXIT GATE #4

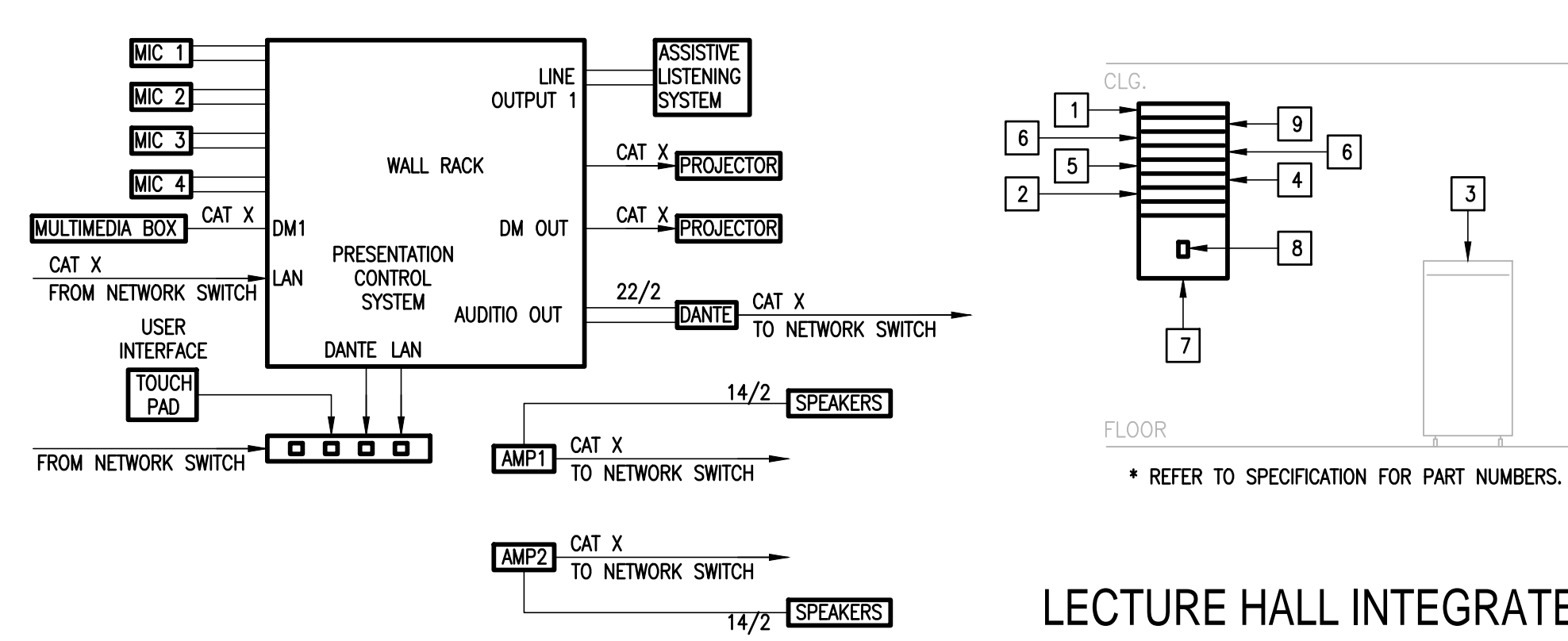


02 SLIDE GATE OPERATOR DETAIL
SCALE: NOT TO SCALE

STAFF/BUS ENTRY GATE #2 & EXIT GATE #3



08 TYPICAL CLASSROOM AUDIO SYSTEM DETAIL
SCALE: NOT TO SCALE



07 LECTURE HALL INTEGRATED AUDIO SYSTEM RISER DETAIL
SCALE: NOT TO SCALE

KEYED NOTES:

- 1 PROVIDE PRESENTATION CONTROL SYSTEM.
- 2 PROVIDE SIGNAL PROCESSOR.
- 3 PROVIDE USER INTERFACE TOUCH PANEL AT PODIUM.
- 4 PROVIDE MICROPHONE WIRELESS TRANSMITTER.
- 5 PROVIDE ASSISTIVE LISTENING TRANSMITTER.
- 6 PROVIDE AMPLIFIER.
- 7 PROVIDE WALL MOUNT RACK.
- 8 PROVIDE 120V DEDICATED CIRCUIT.
- 9 PROVIDE SEQUENCER.

NOTES:

1. COORDINATE EXACT LOCATION OF COMPONENTS WITH GATE EQUIPMENT SUPPLIER PRIOR TO ANY ROUGH-IN.
2. INTERCOM/VIDEO CAMERA AND CATS WIRING BY THIS CONTRACTOR. PROVIDE NEW ALPHONE SYSTEM.
3. ALL COMMUNICATIONS WIRING SHALL BE "AQUASEAL" WEATHER RESISTANT TYPE.
4. ALL GATES CONTROL WIRING SHALL BE PROVIDED BY GATE EQUIPMENT SUB-CONTRACTOR.
5. INTERFACE 2N EQUIPMENT WITH BUILDING ACCESS SYSTEM.

KEYED NOTES:

- 1 PROVIDE 1-2" RACEWAY-(POWER).
- 2 PROVIDE 1-2" RACEWAY-(CONTROL WIRING).
- 3 PROVIDE 1-2" - CONTROL WIRING.
- 4 PROVIDE CARD READER HID MODEL #RP40 PEDESTAL MOUNTED.
- 5 PROVIDE CARD READER/VIDEO DOOR STATION AXIS MODEL #AR207-VE-MK-II PEDESTAL MOUNTED.
- 6 PROVIDE 2- RACEWAY WITH FIBER OPTIC CABLE FOR CARD READER. VIDEO DOOR STATION INTERCOM & VIDEO CAMERA AND 1-2" RACEWAY FOR SPARE. TERMINATE AT MDF ROOM WIREWAY.
- 7 PROVIDE 1-2" RACEWAY TO POWER SOURCE. SEE MEP SITE PLAN.
- 8 PROVIDE 1-2" RACEWAY TO RECEPTION FOR CONTROLS. TERMINATE AT WIREWAY BELOW DESK.
- 9 PROVIDE 2N MODEL #INDOOR MASTER STATION 91379601.
- 10 PROVIDE CONNECTION TO BUILDING NETWORK.
- 11 PROVIDE 2-1.25" RACEWAYS FOR PEDESTAL AND 2N SYSTEM WIRING/SPARE.
- 12 PROVIDE NEW 15"x17" TIER 22 RATED POLYMER CONCRETE PULL BOX WITH "COMMUNICATIONS" COVER LOGO - SEE DETAIL.
- 13 PROVIDE 3 - 2-GANG GANGABLE LARGE CAPACITY WALL BOXES HUBBEL MODEL # HBL985 FLUSH MOUNTED IN WALL. PROVIDE A BLANK COVER PLATE.
- 14 PROVIDE MEDIA CONVERTER TRANSITION NETWORKS MODEL #S-IES-12ID-LRT IN A NEMA 3R OUTDOOR ENCLOSURE. PROVIDE 120V CONNECTION AND IN-LINE FUSE PROTECTION TO MEDIA CONVERTER FROM GATE OPERATOR. BRANCH CIRCUIT: 1/2" - 2#12 & #12C.
- 15 PROVIDE 1-2" RACEWAY WITH FIBER OPTIC CABLE FOR CARD READER STATION INTERCOM AND 1-2" RACEWAY FOR SPARE. TERMINATE AT MDF ROOM WIREWAY.
- 16 PROVIDE IN SAME MEDIA CONVERTER OUTDOOR ENCLOSURE: (1) GENETEC "LP 1501" MERCURY BOARD (SINGLE DOOR CONTROLLER). (1) COMNET "PS-DRA240-48A D36" OUTDOOR POWER SUPPLY. (1) COMNET "CNGE4+2SMSP0E0/M" OUTDOOR POE SWITCH.
- 17 PROVIDE CALL AUDIOVISUAL NOTIFICATION DEVICE. DEVICE SHALL BE INTERFACED WITH THE GATE #4 PEDESTAL DOOR STATION FOR KITCHEN DELIVERIES. PROVIDE REQUIRED CABLING AND COMPONENTS FOR A FULLY OPERATIONAL SYSTEM.

| No. | REVISIONS | BY |
|------------|-----------|----|
| 09/26/2022 | ETHOS | |
| 09/30/2022 | ETHOS | |

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UTRGV/ EDINBURG CISD COLLEGIATE HIGH SCHOOL

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Architects-Planners
Interior Designers
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Drawn By: J.P.
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