

RFCS 200099

HARLANDALE INDEPENDENT SCHOOL DISTRICT CAREER TECHNOLOGY EDUCATION BUILDING



BOARD OF TRUSTEES

| | | |
|--------------------|----------------|------------|
| RICARDO MORENO | PRESIDENT | DISTRICT 7 |
| LOUIE G. LUNA | VICE PRESIDENT | DISTRICT 3 |
| REBECCA RUIZ | SECRETARY | DISTRICT 6 |
| JUAN MANCHA | BOARD MEMBER | DISTRICT 1 |
| VACANT | BOARD MEMBER | DISTRICT 2 |
| NORMA CAVAZOS | BOARD MEMBER | DISTRICT 4 |
| ELAINE ANAYA ORTIZ | BOARD MEMBER | DISTRICT 5 |

ADMINISTRATION

| | |
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| GERARDO SOTO | SUPERINTENDENT OF SCHOOLS |
| LUCIA GUTIERREZ | EXECUTIVE ADMINISTRATIVE ASSISTANT |
| PATTI JUAREZ | ADMINISTRATIVE ASSISTANT |
| JUAN HINOJOSA | EXECUTIVE DIRECTOR OF OPERATIONS |
| VALERIE HERNANDEZ | ADMINISTRATIVE ASSISTANT TO THE EXECUTIVE DIRECTOR |

SHEET INDEX

| | | | | | | | | | |
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| ARCHITECT OF RECORD: ARCHITECTURA SA, INC. 17038 REDLAND RD, SUITE 101 SAN ANTONIO, TEXAS 78247 Phone: (210) 384-8200 Phone: (866) 583-0968 | | COLLABORATIVE ARCHITECT: CAVAZOS ARCHITECTS 9114 McPHERSON ROAD, SUITE 2501 LAREDO, TEXAS 78045 Phone: (956) 724-8123 MEMO@CAVAZOARCH.COM | | STRUCTURAL ENGINEER: ALPHA CONSULTING ENGINEERS 10609 W INTERSTATE 10, SUITE 203 SAN ANTONIO, TEXAS 78230 PHONE: (210) 227-3647 THOMAS@ALPHAENGINEERS.COM | | M.E.P. ENGINEER: SKYE MEP ENGINEERING & COMMISSIONING TRAVIS MCLEOD, P.E. 8610 BROADWAY, SUITE 415 SAN ANTONIO, TEXAS 78217 Phone: (210) 826-6392 TMCLEOD@SKYEMEP.COM | | CIVIL ENGINEER: CDS MUERY JOHN ROTHE 100 NE LOOP 410, SUITE 300 SAN ANTONIO, TEXAS 78216 Phone: (210) 581-1111 | |
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PROJECT DATA:

PROJECT DESCRIPTION:
 RENOVATION OF AN EXISTING ELEMENTARY SCHOOL, SOON TO BECOME A VOCATIONAL SCHOOL.
 PROPOSED CHANGES INCLUDE TURNING THE 1ST FLOOR CAFETERIA, LIBRARY, AND SOME CLASSROOMS INTO SHOPS (WELDING, PLUMBING, ELECTRICAL, HVAC, BARBER AND DENTAL ASSISTING) AS NOTED ON THE PROJECT DOCUMENTS.
 RENOVATIONS ARE LIMITED TO THE 1ST FLOOR ONLY.
 THERE WILL NOT BE ANY ADDITIONS CONSTRUCTED AS PART OF THIS SCOPE OF WORK.

APPLICABLE CODES:
 2021 INTERNATIONAL EXISTING BUILDING CODE, IEBC
 2021 INTERNATIONAL BUILDING CODE, IBC
 2021 INTERNATIONAL FIRE CODE, IFC
 2021 INTERNATIONAL MECHANICAL CODE, IMC
 2021 INTERNATIONAL PLUMBING CODE, IPC
 2020 NATIONAL ELECTRICAL CODE, NEC
 2021 INTERNATIONAL FUEL GAS CODE
 2021 INTERNATIONAL ENERGY CONSERVATION CODE, IECC
 2019 NFPA 13
 2019 NFPA 72
 COSA AMENDMENTS

ADDRESS:
 519 W HARDING BLVD.
 SAN ANTONIO, TX 78221

PROPERTY DESCRIPTION:
 SITE ACREAGE: 3.420
 LOT & BLOCK NUMBERS: LOT 21, BLOCK 75, N.C.B. 9357

PLAT ID NUMBER: 000387

TYPE OF CONSTRUCTION
 TYPE IIB

AUTOMATIC SPRINKLER SYSTEM:
 NFPA 13 SPRINKLER SYSTEM

FIRE ALARM:
 EMERGENCY VOICE ALARM COMMUNICATION SYSTEM

HEIGHT:
 >30-ft

STORIES: 2

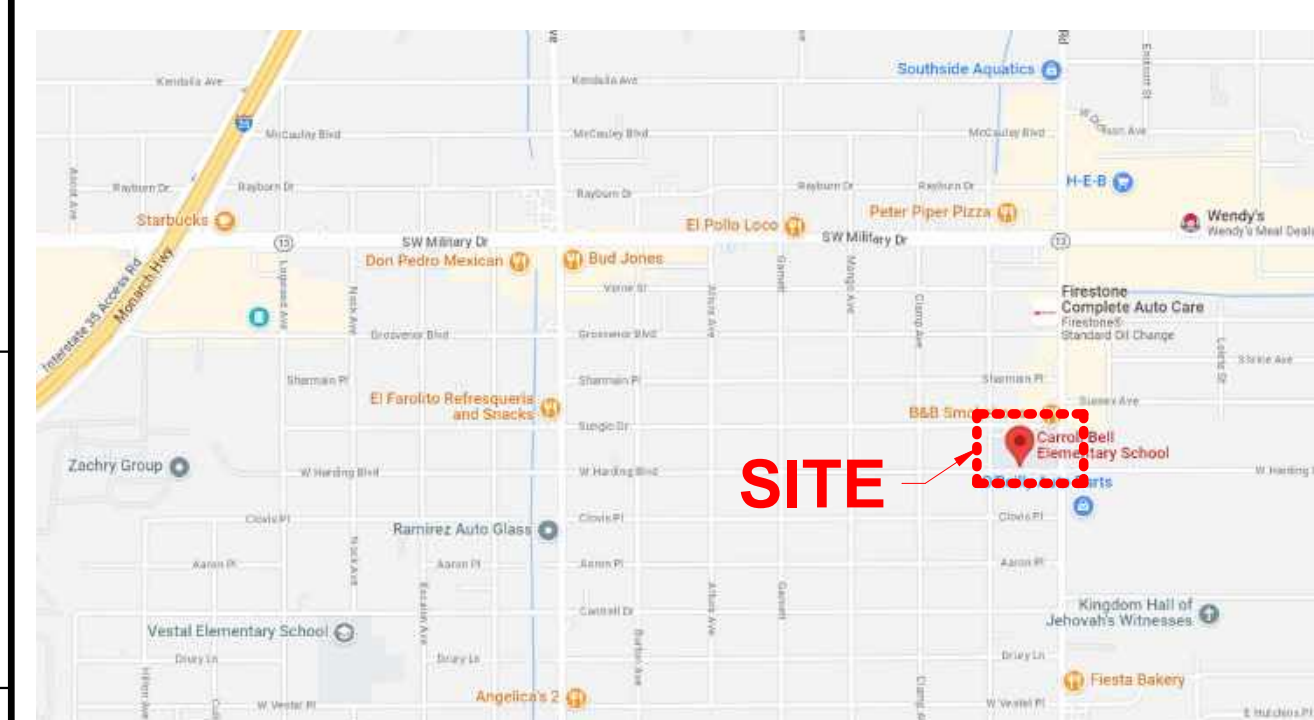
AREA:
 EXISTING: 66,046 sf
 i. 1st: 39,926 sf
 ii. 2nd: 26,120 sf

PRIMARY OCCUPANCY: E

CALCULATED OCCUPANT LOAD:
 1,642 OCCUPANTS
 I. 1ST FLOOR:
 1. PREVIOUS PERMIT DOCUMENTS: 1,104 OCCUPANTS
 2. REDUCTION PER RENOVATIONS: -318 OCCUPANTS
 A. TOTAL NEW 1ST FLOOR OCCUPANT LOAD: 786 OCCUPANTS
 II. 2ND FLOOR:
 856 OCCUPANTS (EXISTING UNCHANGED)

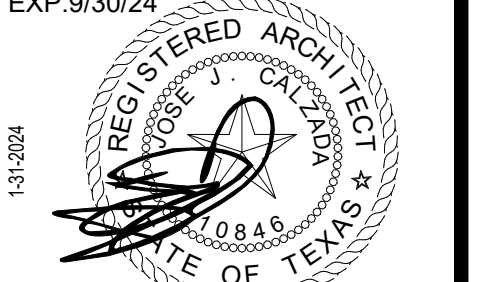
NUMBER OF EXITS/EXIT ACCESSES AND EXIT CAPACITY
 1ST FLOOR: 9; 3,840 OCCUPANTS
 2ND FLOOR: 3; 900 OCCUPANTS

NOTED LABS:
 SMOKE RESISTANT (IBC 509)

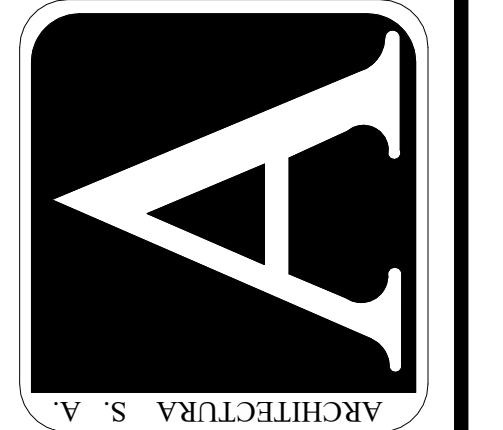


VICINITY MAP

CONSTRUCTION DOCUMENTS
EXP 9/30/24



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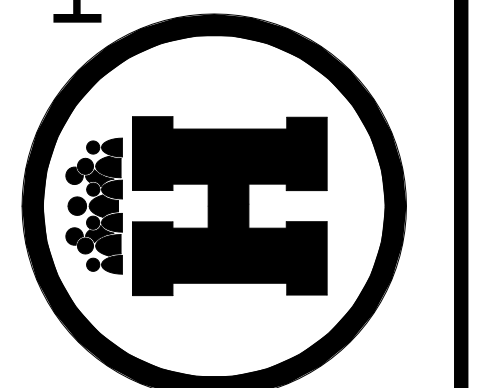


ARCHITECTURA S.A., INC.
 ARCHITECTURE INTERIOR DESIGN PLANNING
 17038 REDLAND RD., SUITE 101, SAN ANTONIO, TEXAS 78247

t. 210.384.8200 f. 210.319.3555
 architecturasa@yahoo.com

HISD CAREER TECHNOLOGY
 EDUCATION (CTE)

HARLANDALE INDEPENDENT SCHOOL DISTRICT
 519 W HARDING BLVD.
 SAN ANTONIO, TX 78221



Drawn By: Author
 Checked By: Checker
 Job Number: 23-09

TITLE SHEET

| No. | DATE | DESCRIPTION |
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Date: 01/31/2024

Drawing No:

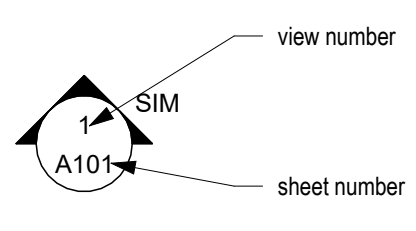
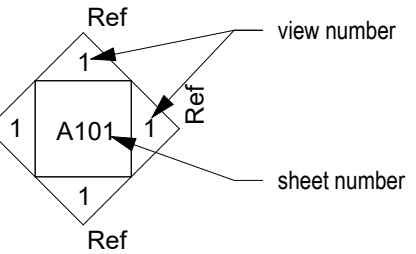
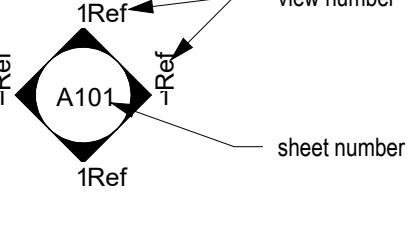
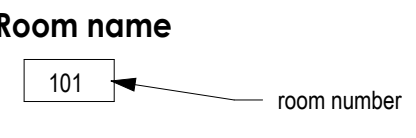
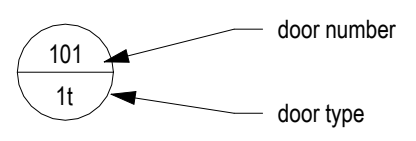
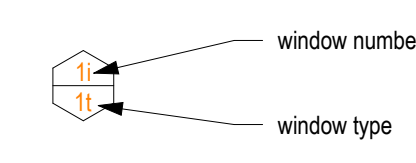

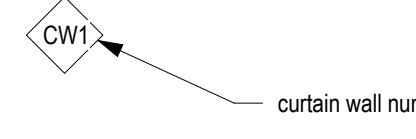
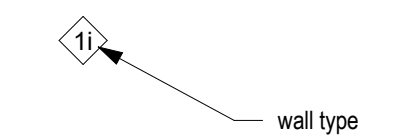
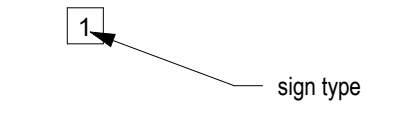
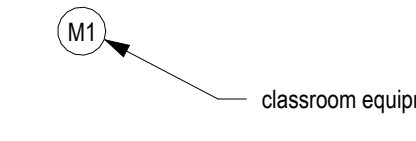

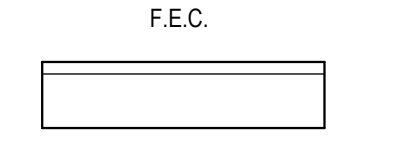
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ABBREVIATIONS

| | | | |
|--------|----------------------------|--------|--------------------------|
| @ | AT | INV | INVERT |
| A/C | AIR CONDITIONING | JAN | JANITOR |
| ABV | ABOVE | JOC | JOB ORDER CONTRACTOR |
| ACOUS | ACOUSTIC(AL) | JT | JOINT |
| AD | AREA DRAIN | LAM | LAMINATED |
| AFF | ABOVE FINISH FLOOR | LAV | LAVATORY |
| ALT | ALTERNATE | LP | LOW POINT |
| ALUM | ALUMINUM | MAX | MAXIMUM |
| ANOD | ANODIZED | MB | MARKER BOARD |
| AP | ACCESS PANEL | MECH | MECHANICAL |
| APPROX | APPROXIMATE | MFR | MANUFACTURE/MANUFACTURER |
| AVC | AUDIO VISUAL CONSOLE | MIN | MINIMUM |
| BD | BOARD | MIR | MIRROR |
| BLDG | BUILDING | MISC | MISCELLANEOUS |
| BLKG | BLOCKING | ML | MODULE LINE/METHAL LATH |
| BM | BEAM | MO | MASONRY OPENING |
| BRG | BEARING | MOD | MODULE/MODULAR |
| BRJ | BRICK RELIEF JOINT | MONO | MONOLITHIC |
| BRZ | BRONZE | MP | MASONRY PARTITION |
| BYO | BY OWNER | MT | METAL THRESHOLD |
| CAB | CABINET | MTL | METAL |
| CB | CATCH BASIN | MWP | MEMBRANE WATERPROOFING |
| CEM | CEMENT | NIC | NOT IN CONTRACT |
| CER | CERAMIC | NTS | NOT TO SCALE |
| CHBD | CHALKBOARD | O/ | ON TO OF, OVER |
| CJ | CONTROL JOINT | OC | ON CENTER |
| CL | CENTER LINE | OD | OUTSIDE DIAMETER |
| CLG | CEILING | OPNG | OPENING |
| CLO | CLOSET | OPP | OPPOSITE |
| CMU | CONCRETE MASONRY UNIT | OV | OVERHEAD |
| CO | CASED OPENING | PL | PLATE |
| COL | COLUMN | PLAM | PLASTIC LAMINATE |
| CONC | CONCRETE | PLAS | PLASTER |
| CONT | CONTINUOUS | PLYWD | PLYWOOD |
| CONTR | CONTRACT(OR) | PS | PROTECTION SCREEN |
| CPT | CARPET | PTD | PAINTED |
| CT | CARPET TILE | PTN | PARTITION |
| DET | DEATH | R | RISER |
| DF | DRYWALL FURRING | R/A | RETURN AIR |
| DI | DIAMETER | RD | ROOF DRAIN |
| DIM | DIMENSION | RE | REF REFERENCE |
| DN | DOWN | REINF | REINFORCE(MENT) |
| DP | DRYWALL PARTITION | REQD | REQUIRED |
| DR | DOOR | RM | ROOM |
| DS | DOWNSPOUT | RTU | ROOFTOP UNIT |
| DWG | DRAWING | SCHED | SCHEDULE(D) |
| EA | EACH | SF | SAND FINISH |
| EAV | ELECTRICAL/AUDIOVISUAL | SHLVS | SHELVES |
| EDF | ELECTRIC DRINKING FOUNTAIN | SHT | SHEET |
| EJ | EXPANSION JOINT | SIM | SIMILAR |
| EL | ELEVATION | SK | SINK |
| ELEC | ELECTRICAL | SM | SMOOTH |
| ELEV | ELEVATOR OR ELEVATION | SPEC | SPECIFICATIONS/SPECIFIED |
| EP | ELECTRICAL PANEL | SQ | SQUARE |
| EQ | EQUAL | SS | SERVICE SINK |
| EQUIP | EQUIPMENT | ST STL | STAINLESS STEEL |
| EXIST | EXISTING | STD | STANDARD |
| EXP | EXPANSION | STL | STEEL |
| EXT | EXTERIOR | STOR | STORAGE |
| FD | FLOOR DRAIN | STRUCT | STRUCTURE/STRUCTURAL |
| FEB | FIRE EXTINGUISHER WBRACKET | SUSP | SUSPENDED |
| FEC | FIRE EXTINGUISHER CABINET | TA | TOILET ACCESSORY |
| FHC | FIRE HOSE CABINET | TB | TACKBOARD |
| FIN | FINISHED | TC | TOP OF CURB |
| FL | FLOOR | TEMP | TEMPERED |
| FM | FLOOR MAT | THK | THICK |
| FR | FRAME | TKBD | TACKBOARD |
| FTVM | FUTURE TV MONITOR | TRANS | TRANSPARENT |
| FURR | FURRED | TVM | TV MONITOR |
| FV | FIELD VERIFY | TVP | TV PROJECTOR |
| GA | GAGE/GAUGE | TYP | TYPICAL |
| GALV | GALVANIZED | U | URINAL |
| GC | GENERAL CONTRACTOR | U.N.O. | UNLESS NOTED OTHERWISE |
| GL | GLASS | UNFIN | UNFINISHED |
| GR | GROUND ROD ACCESS BOX | UV | UNDERFLOOR VENT |
| GST | GALZED CERAMIC TILE | VC | VALVE CABINET |
| GWB | GYPNUM WALL BOARD | VERT | VERTICAL |
| GYP | GYPNUM | VIN | VINYL |
| HC | HANDICAP | VP | VISION PANEL |
| HDW | HARDWARE | W | WITH |
| HM | HOLLOW METAL | W/O | WITHOUT |
| HORIZ | HORIZONTAL | WC | WATER CLOSET |
| HP | HIGH POINT | WD | WOOD |
| HT | HEIGHT | WDW | WINDOW |
| ID | INSIDE DIMENSION | WOJ | WORK OUT ON JOB |
| INSUL | INSULATION | WP | WATERPROOFING |
| INT | INTERIOR | WWF | WELDED WIRE FABRIC |

SYMBOL LEGEND

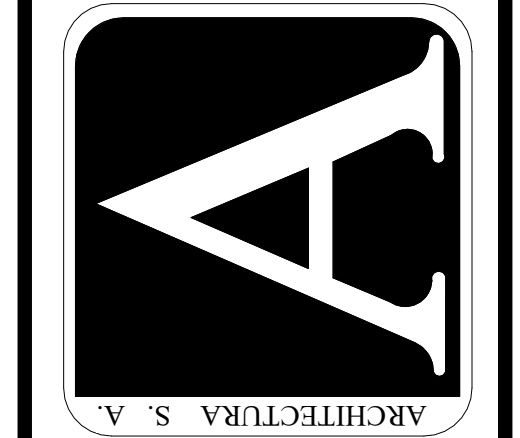
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|------------------------------------|---|
| BUILDING SECTION MARKER |  |
| EXTERIOR ELEVATION MARKER |  |
| INTERIOR ELEVATION MARKER |  |
| ROOM TAG |  |
| DOOR TAG |  |
| WINDOW TAG |  |
| SPECIALTY EQUIP. TAG |  |
| CURTAIN WALL/STOREFRONT TAG |  |
| WALL TAG |  |
| SIGNAGE TAG |  |
| CLASSROOM EQUIPMENT TAG |  |
| FIRE EXTINGUISHER BRACKET |  |
| FIRE EXTINGUISHER CABINET |  |

GENERAL ARCHITECTURAL NOTES

- DO NOT SCALE THE DRAWINGS.
- GENERAL CONTRACTOR TO VERIFY FIELD CONDITIONS PRIOR TO COMMENCEMENT OF EACH PORTION OF THE WORK.
- THE CONTRACT DOCUMENTS ARE COMPLEMENTARY. WHAT IS REQUIRED BY ONE IS AS BINDING AS IF REQUIRED BY ALL. THE CONTRACTOR SHALL COORDINATE ALL PORTIONS OF THE WORK AS DESCRIBED IN THE CONTRACT DOCUMENTS. NOTIFY THE ARCHITECT FOR RESOLUTION OF ALL DISCREPANCIES PRIOR TO CONSTRUCTION.
- UNLESS OTHERWISE INDICATED, PLAN DIMENSIONS ARE TO COLUMN GRID ON CENTERLINES, NOMINAL SURFACE OF MASONRY, FACE OF STUDS AND FACE OF CONCRETE WALLS.
- "FLOOR LINE" REFERS TO TOP OF CONCRETE SLABS. FINISH FLOORING IS INSTALLED ABOVE THE FLOOR LINE. FOR DERESSED FLOORS AND CURBS, SEE STRUCTURAL DRAWINGS.
- REPETITIVE FEATURES ARE NOT DRAWN IN THEIR ENTIRETY AND SHALL BE COMPLETELY PROVIDED AS IF DRAWN IN FULL.
- WHERE A DOOR IS LOCATED NEAR CORNER OF ROOM AND IS NOT LOCATED BY DIMENSION ON PLAN OR DETAILS, DIMENSION SHALL BE 3" FROM FACE OF STUD (WALL) TO FACE OF ROUGH OPENING. DIMENSION SHALL BE 6" FROM FACE OF WALL TO EDGE OF ROUGH OPENING AT CONCRETE WALLS. AT SECURITY WALLS, FULL HEIGHT PARTITIONS SHALL BE SEALED BOTH SIDES WITH ACOUSTIC SEALANT, TOP, BOTTOM, INTERSECTION, DOOR FRAMES, GLAZED OPENING FRAMES, AND ALL OTHER PENETRATIONS.
- LINE OF EXISTING GRADES, AS SHOWN ON THE BUILDING ELEVATIONS AND SECTIONS ARE APPROXIMATE.
- VERIFY ALL ROUGH-IN DIMENSIONS FOR EQUIPMENT PROVIDED IN THIS CONTRACT, OR BY OTHERS.
- REFER TO ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL AND OTHER CATEGORIES OR DRAWINGS FOR ADDITIONAL NOTES.
- VERIFY SIZE, LOCATION, FINISH, FIRE-RATING, ETC. AND PROVIDE COMPLETE ALL REQUIRED OPENINGS THROUGH FLOORS AND WALLS, ACCESS DOORS, FURRING, CURBS, ANCHORS AND INSERTS. PROVIDE ALL BASES AND BLOCKING REQUIRED FOR ACCESSORIES, MECHANICAL, ELECTRICAL AND OTHER EQUIPMENT.
- ALL PENETRATIONS AND OPENINGS SHALL MEET WALL ASSEMBLY FIRE RATINGS.
- BOXES LOCATED ON OPPOSITE SIDE OF FIRE RATED WALLS & SECURITY WALLS SHALL BE SEPARATED BY A MIN. HORIZONTAL DISTANCE OF 36".
- REFER TO FINISH SCHEDULES AND COLOR LISTS FOR WALL FINISH DESIGNATIONS.
- REFER TO GENERAL STRUCTURAL NOTES & PROJECT SPECIFICATIONS.
- SEE STRUCTURAL GENERAL NOTES FOR MINIMUM STUD DEPTH, THICKNESS, FLANGE WIDTH AND SPACING.
- REFER TO STRUCTURAL DRAWINGS FOR ALL REINFORCING INFORMATION.
- AT ALL PENETRATIONS AND INTERSECTIONS OF FIRE-RATED PARTITIONS, PROVIDE FIRE SEALANT AND/OR FIRE STOPPING TO MAINTAIN CONTINUITY OF PARTITION RATING.
- MAXIMUM SPACING BETWEEN VERTICAL BRICK VENEER CONTROL JOINTS TO BE 20'-0" O.C. @ EXTERIOR WALLS & 20'-0" @ O.C. INTERIOR WALLS, TYPICAL UNLESS NOTED OTHERWISE.
- PRIOR TO BEGINNING METAL STUD PARTITIONS, LOCATE WALLS WITH CHALK-LINES. IF QUESTIONS OR CONCERNS ARISE, BRING TO ARCHITECTS ATTENTION.
- WHEN FINISH OR COLOR IS DESIGNATED "COLOR BY ARCHITECT", COLOR SHALL BE SELECTED BY ARCHITECT FROM MANUFACTURER'S FULL RANGE OF COLORS.

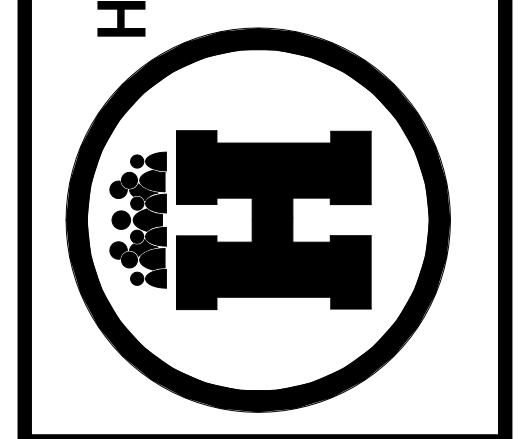


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ARCHITECTURA S.A., INC.
ARCHITECTURE INTERIOR DESIGN PLANNING
17038 REDLAND RD., SUITE 101, SAN ANTONIO, TEXAS 78247
t. 210.384.8200 f. 210.319.3555
architecturasa@yahoo.com

HISD CAREER TECHNOLOGY EDUCATION (CTE)
HARLANDALE INDEPENDENT SCHOOL DISTRICT
519 W HARDING BLVD.
SAN ANTONIO, TX 78221



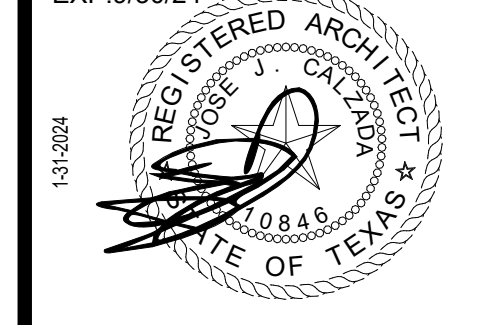
Drawn By: VMC
Checked By: SAV
Job Number: 23-09

DRAWING INDEX & CONVENTIONS

| No. | DATE | DESCRIPTION |
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Date: 01/31/2024

Drawing No: **G-001**

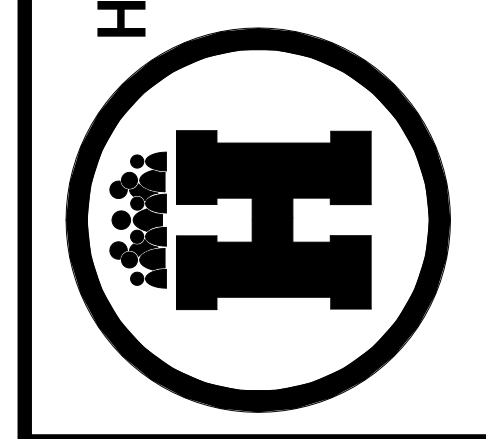


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ARCHITECTURA S.A., INC.
ARCHITECTURE INTERIOR DESIGN PLANNING
17038 REDLAND RD., SUITE 101, SAN ANTONIO, TEXAS 78247
t. 210.384.8200 f. 210.319.3555
architecturassai@yahoo.com

HISD CAREER TECHNOLOGY EDUCATION (CTE)
HARLANDALE INDEPENDENT SCHOOL DISTRICT
519 W HARDING BLVD.
SAN ANTONIO, TX 78221



Drawn By: VMC
Checked By: SAV
Job Number: 23-09

ACCESSIBILITY STANDARDS

| No. | DATE | DESCRIPTION |
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Date: 01/31/2024

Drawing No:

G-005

208 Parking Spaces

208.1 General. Where parking spaces are provided, parking spaces shall be provided in accordance with 208.
EXCEPTION: Parking spaces used exclusively for buses, trucks, other delivery vehicles, law enforcement vehicles, or vehicular impound shall not be required to comply with 208 provided that lots accessed by the public are provided with a passenger loading zone complying with 503.
208.2 Minimum Number. Parking spaces complying with 502 shall be provided in accordance with Table 208.2 except as required by 208.2.1, 208.2.2, and 208.2.3. Where more than one parking facility is provided on a site, the number of accessible spaces provided on the site shall be calculated according to the number of spaces required for each parking facility.

TABLE 208.2 PARKING SPACES

| Total Number of Parking Spaces Provided in Parking Facility | Minimum Number of Required Accessible Parking Spaces |
|---|---|
| 1 to 25 | 1 |
| 26 to 50 | 2 |
| 51 to 75 | 3 |
| 76 to 100 | 4 |
| 101 to 150 | 5 |
| 151 to 200 | 6 |
| 201 to 300 | 7 |
| 301 to 400 | 8 |
| 401 to 500 | 9 |
| 501 to 1000 | 2 percent of total |
| 1001 and over | 20, plus 1 for each 100, or fraction thereof, over 1000 |

Advisory 208.2 Minimum Number. The term "parking facility" is used Section 208.2 instead of the term "parking lot" so that it is clear that both parking lots and parking structures are required to comply with this section. The number of parking spaces required to be accessible is to be calculated separately for each parking facility; the required number is not to be based on the total number of parking spaces provided in all of the parking facilities provided on the site.

705 Detectable Warnings

705.1 General. Detectable warnings shall consist of a surface of truncated domes and shall comply with 705.
705.1.1 Dome Size. Truncated domes in a detectable warning surface shall have a base diameter of 0.9 inch (23 mm) minimum and 1.4 inches (36 mm) maximum, a top diameter of 50 percent of the base diameter minimum to 65 percent of the base diameter maximum, and a height of 0.2 inch (5.1 mm).
705.1.2 Dome Spacing. Truncated domes in a detectable warning surface shall have a center-to-center spacing of 1.6 inches (41 mm) minimum and 2.4 inches (61 mm) maximum, and a base-to-base spacing of 0.65 inch (17 mm) minimum, measured between the most adjacent domes on a square grid.
705.1.3 Contrast. Detectable warning surfaces shall contrast visually with adjacent walking surfaces either light-on-dark, or dark-on-light.

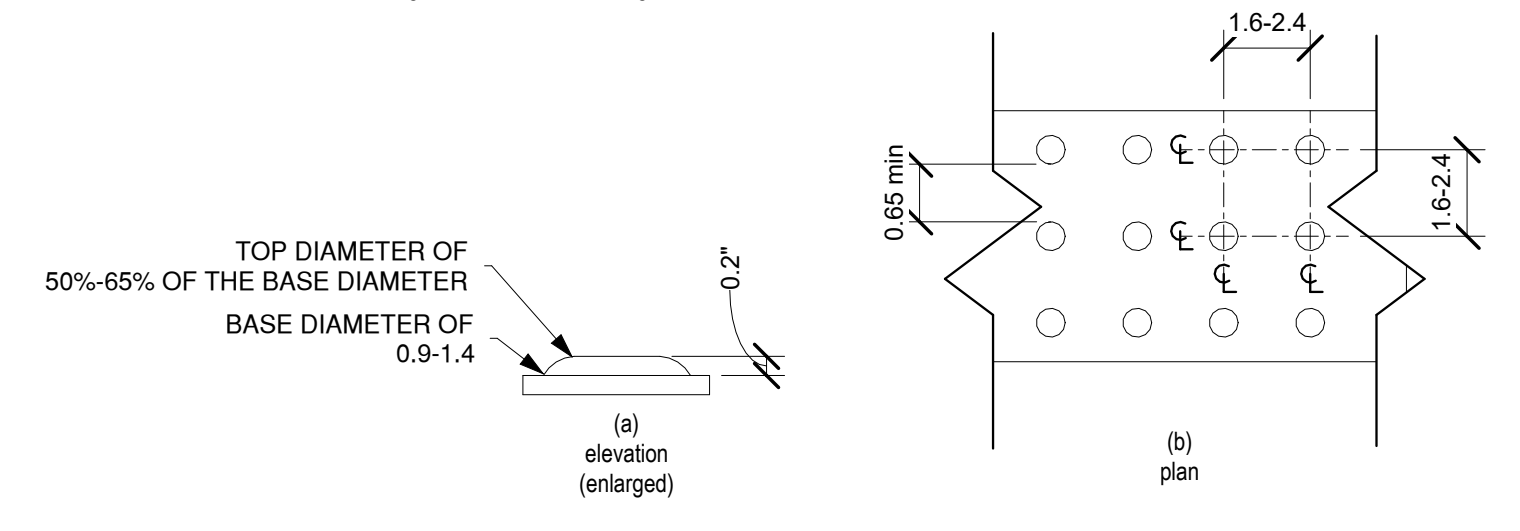


Figure 705.1 Size and Spacing of Truncated Domes
705.2 Platform Edges. Detectable warning surfaces at platform boarding edges shall be 24 inches (610 mm) wide and shall extend the full length of the public use areas of the platform.

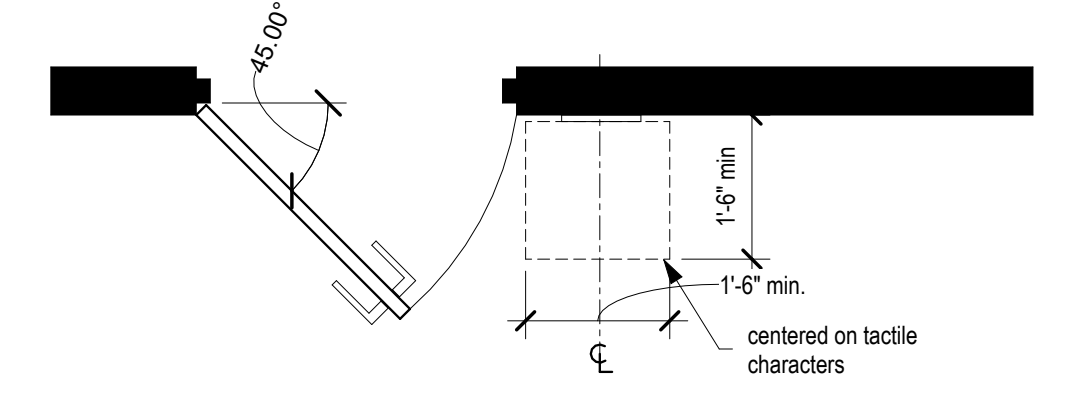


Figure 703.4.2 Location of Tactile Signs at Doors
703.5 Visual Characters. Visual characters shall comply with 703.5.

EXCEPTION: Where visual characters comply with 703.2 and are accompanied by braille complying with 703.3, they shall not be required to comply with 703.5.2 through 703.5.9.
703.5.1 Finish and Contrast. Characters and their background shall have a non-glare finish. Characters shall contrast with their background with either light characters on a dark background or dark characters on a light background.
Advisory 703.5.1 Finish and Contrast. Signs are more legible for persons with low vision when characters contrast as much as possible with their background. Additional factors affecting the ease with which the text can be distinguished from its background include shadows cast by lighting sources, surface glare, and the uniformity of the text and its background colors and textures.
703.5.2 Case. Characters shall be uppercase or lowercase or a combination of both.
703.5.3 Style. Characters shall be conventional in form. Characters shall not be italic, oblique, script, highly decorative, or of other unusual forms.
703.5.4 Character Proportions. Characters shall be selected from fonts where the width of the uppercase letter "O" is 55 percent minimum and 110 percent maximum of the height of the uppercase letter "I".
703.5.5 Character Height. Minimum character height shall comply with Table 703.5.5. Viewing distance shall be measured as the horizontal distance between the character and an obstruction preventing further approach towards the sign. Character height shall be based on the uppercase letter "I".

TABLE 703.5.5. Visual Character Height

| Height to Finish Floor or Ground From Baseline of Character | Horizontal Viewing Distance | Minimum Character Height |
|---|-----------------------------|---|
| 60 inches to less than or equal to 70 inches | less than 72 inches | 0.8 inch |
| 70 inches and greater | 72 inches and greater | 0.8 inch, plus 1/8 inch per foot of viewing distance above 72 inches |
| less than 180 inches | less than 180 inches | 2 inches |
| greater than 70 inches to less than or equal to 120 inches | 180 inches and greater | 2 inches, plus 1/8 inch per foot of viewing distance above 180 inches |
| greater than 120 inches | less than 21 feet | 2 inches |
| greater than 120 inches | 21 feet and greater | 2 inches plus 1/8 inch per foot of viewing distance above 21 feet |

703.5.6 Height From Finish Floor or Ground. Visual characters shall be 40 inches (1015 mm) minimum above the finish floor or ground.
EXCEPTION: Visual characters indicating elevator car controls shall not be required to comply with 703.5.6.

703.5.7 Stroke Thickness. Stroke thickness of the uppercase letter "I" shall be 10 percent minimum and 30 percent maximum of the height of the character.

703.5.8 Character Spacing. Character spacing shall be measured between the two closest points of adjacent characters, excluding word spaces. Spacing between individual characters shall be 10 percent minimum and 35 percent maximum of character height.

703.5.9 Line Spacing. Spacing between the baselines of separate lines of characters within a message shall be 135 percent minimum and 170 percent maximum of the character height.

703.6 Pictograms. Pictograms shall comply with 703.6.

703.6.1 Pictogram Field. Pictograms shall have a field height of 6 inches (150 mm) minimum. Characters and braille shall not be located in the pictogram field.

703.6.2 Finish and Contrast. Pictograms and their field shall have a non-glare finish. Pictograms shall contrast with their field with either a light pictogram on a dark field or a dark pictogram on a light field.

Advisory 703.6.2 Finish and Contrast. Signs are more legible for persons with low vision when characters contrast as much as possible with their background. Additional factors affecting the ease with which the text can be distinguished from its background include shadows cast by lighting sources, surface glare, and the uniformity of the text and background colors and textures.

703.6.3 Text Descriptors. Pictograms shall have text descriptors located directly below the pictogram field. Text descriptors shall comply with 703.2, 703.3 and 703.4.

703.7 Symbols of Accessibility. Symbols of accessibility shall comply with 703.7.

703.7.1 Finish and Contrast. Symbols of accessibility and their background shall have a non-glare finish. Symbols of accessibility shall contrast with their background with either a light symbol on a dark background or a dark symbol on a light background.

Advisory 703.7.1 Finish and Contrast. Signs are more legible for persons with low vision when characters contrast as much as possible with their background. Additional factors affecting the ease with which the text can be distinguished from its background include shadows cast by lighting sources, surface glare, and the uniformity of the text and background colors and textures.

702 Fire Alarm Systems

702.1 General. Fire alarm systems shall have permanently installed audible and visible alarms complying with NFPA 72 (1999 or 2002 edition) (incorporated by reference, see "Referenced Standards" in Chapter 1), except that the maximum allowable sound level of audible notification appliances complying with section 4-3.2.1 of NFPA 72 (1999 edition) shall have a sound level no more than 110 dB at the minimum hearing distance from the audible appliance. In addition, alarms in guest rooms required to provide communication features shall comply with sections 4-3 and 4-4 of NFPA 72 (1999 edition) or sections 7.4 and 7.5 of NFPA 72 (2002 edition).

EXCEPTION: Fire alarm systems in medical care facilities shall be permitted to be provided in accordance with industry practice.

703 Signs

703.1 General. Signs shall comply with 703. Where both visual and tactile characters are required, either one sign with both visual and tactile characters, or two separate signs, one with visual, and one with tactile characters, shall be provided.

703.2 Raised Characters. Raised characters shall comply with 703.2 and shall be duplicated in braille complying with 703.3. Raised characters shall be installed in accordance with 703.4. Advisory 703.2 Raised Characters. Signs that are designed to be read by touch should not have sharp or abrasive edges.

703.2.1 Depth. Raised characters shall be 1/32 inch (0.8 mm) minimum above their background.

703.2.2 Case. Characters shall be uppercase.

703.2.3 Style. Characters shall be sans serif. Characters shall not be italic, oblique, script, highly decorative, or of other unusual forms.

703.2.4 Character Proportions. Characters shall be selected from fonts where the width of the uppercase letter "O" is 55 percent minimum and 110 percent maximum of the height of the uppercase letter "I".

703.2.5 Character Height. Character height measured vertically from the baseline of the character shall be 5/8 inch (16 mm) minimum and 2 inches (51 mm) maximum based on the height of the uppercase letter "I".

EXCEPTION: Where separate raised and visual characters with the same information are provided, raised character height shall be permitted to be 1/2 inch (13 mm) minimum.

703.2.6 Stroke Thickness. Stroke thickness of the uppercase letter "I" shall be 15 percent maximum of the height of the character.

703.2.7 Character Spacing. Character spacing shall be measured between the two closest points of adjacent raised characters within a message, excluding word spaces. Where characters have rectangular cross sections, spacing between individual raised characters shall be 1/8 inch (3.2 mm) minimum and 4 times the raised character stroke width maximum. Where characters have other cross sections, spacing between individual raised characters shall be 1/16 inch (1.6 mm) minimum and 4 times the raised character stroke width maximum at the base of the cross sections, and 1/8 inch (3.2 mm) minimum and 4 times the raised character stroke width maximum at the top of the cross sections. Characters shall be separated from raised borders and decorative elements 3/8 inch (9.5 mm) minimum.

703.2.8 Line Spacing. Spacing between the baselines of separate lines of raised characters within a message shall be 135 percent minimum and 170 percent maximum of the raised character height.

703.3 Braille. Braille shall be contracted (Grade 2) and shall comply with 703.3 and 703.4.

703.3.1 Dimensions and Capitalization. Braille dots shall have a domed or rounded shape and shall comply with Table 703.3.1. The indication of an uppercase letter or letters shall only be used before the first word of sentences, proper nouns and names, individual letters of the alphabet, initials, and acronyms.

TABLE 703.3.1 Braille Dimensions

| Measurement Range | Minimum in Inches to Maximum in Inches |
|---|--|
| Dot base diameter | 0.059 to 0.063 |
| Distance between two dots in the same cell ¹ | 0.090 to 0.100 |
| Distance between corresponding dots in adjacent cells ² | 0.241 to 0.300 |
| Dot height | 0.025 to 0.037 |
| Distance between corresponding dots from one cell directly below ³ | 0.395 to 0.400 |

703.3.2 Position. Braille shall be positioned below the corresponding text. If text is multi-lined, braille shall be placed below the entire text. Braille shall be separated 3/8 inch (9.5 mm) minimum from any other tactile characters and 3/8 inch (9.5 mm) minimum from raised borders and decorative elements.

EXCEPTION: Braille provided on elevator car controls shall be separated 3/16 inch (4.8 mm) minimum and shall be located either directly below or adjacent to the corresponding raised characters or symbols.

703.4 Installation Height and Location. Signs with tactile characters shall comply with 703.4.

703.4.1 Height Above Finish Floor or Ground. Tactile characters on signs shall be located 48 inches (1220 mm) minimum above the finish floor or ground surface, measured from the baseline of the lowest tactile character and 60 inches (1525 mm) maximum above the finish floor or ground surface, measured from the baseline of the highest tactile character.

EXCEPTION: Tactile characters for elevator car controls shall not be required to comply with 703.4.1.

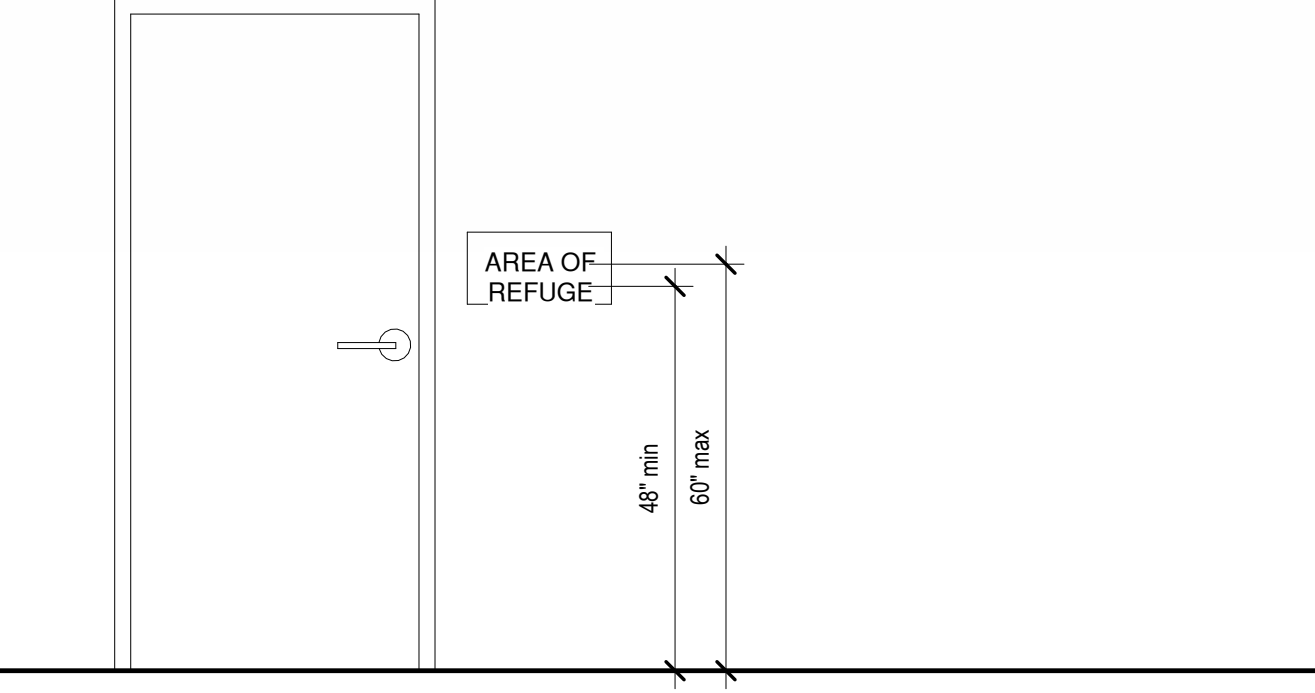
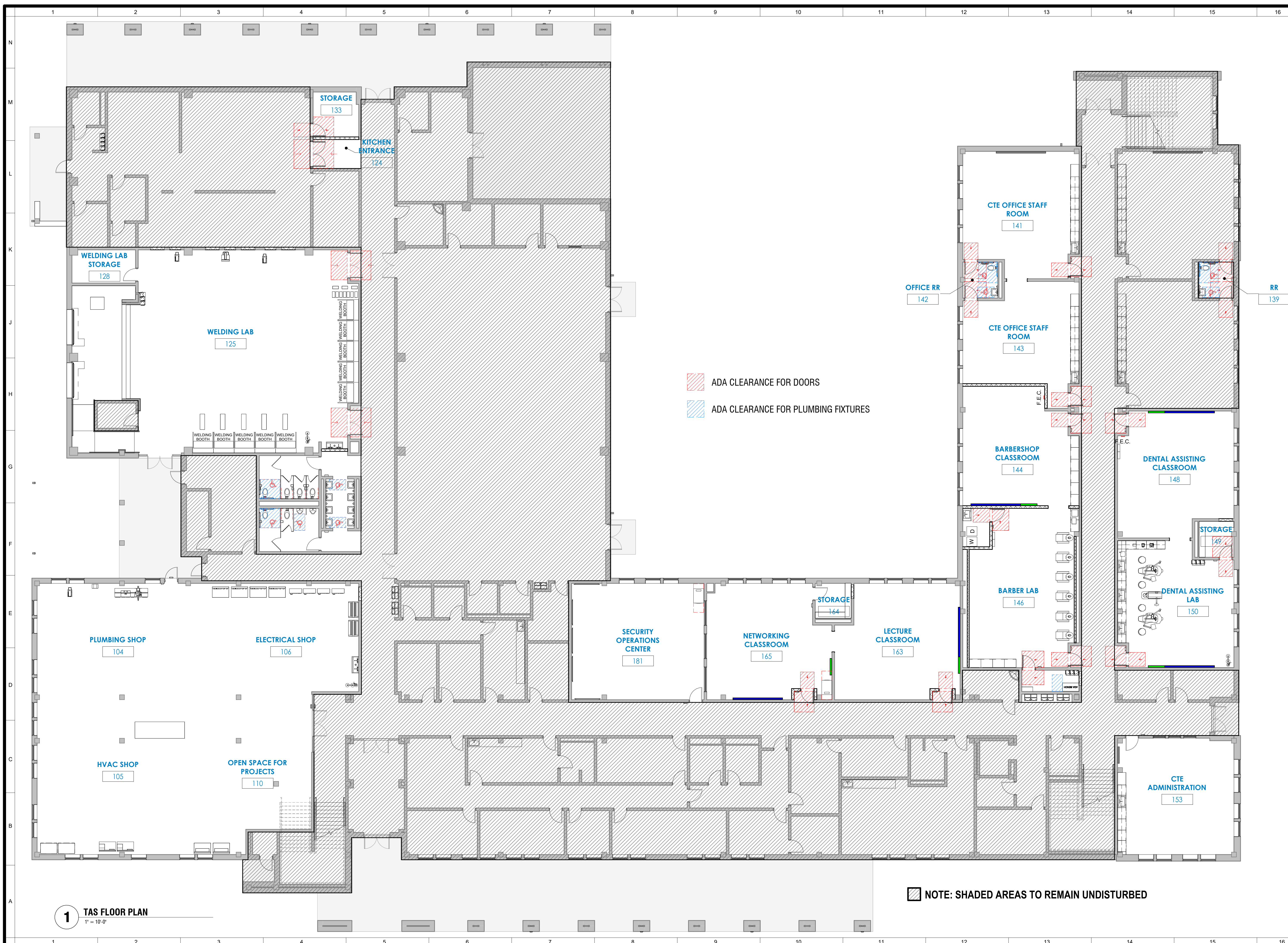


Figure 703.4.1 Height of Tactile Characters Above Finish Floor or Ground

703.4.2 Location. Where a tactile sign is provided at a door, the sign shall be located alongside the door at the latch side. Where a tactile sign is provided at double doors with one active leaf, the sign shall be located on the inactive leaf. Where a tactile sign is provided at double doors with two active leaves, the sign shall be located to the right of the right hand door. Where there is no wall space at the latch side of a single door or at the right side of double doors, signs shall be located on the nearest adjacent wall. Signs containing tactile characters shall be located so that a clear floor space of 18 inches (455 mm) minimum by 18 inches (455 mm) minimum, centered on the tactile characters, is provided beyond the arc of any door swing between the closed position and 45 degree open position.

EXCEPTION: Signs with tactile characters shall be permitted on the push side of doors with closers and without hold-open devices.

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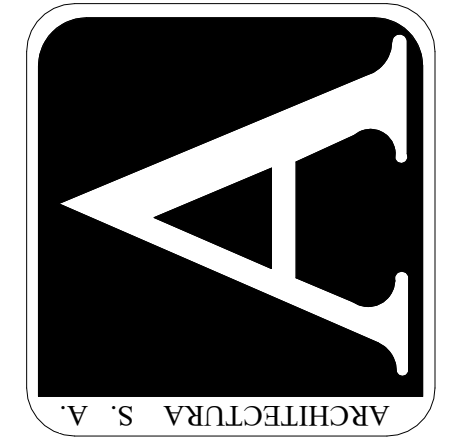


1 TAS FLOOR PLAN
1" = 10' 0"

CONSTRUCTION DOCUMENTS
EXP. 9/30/24

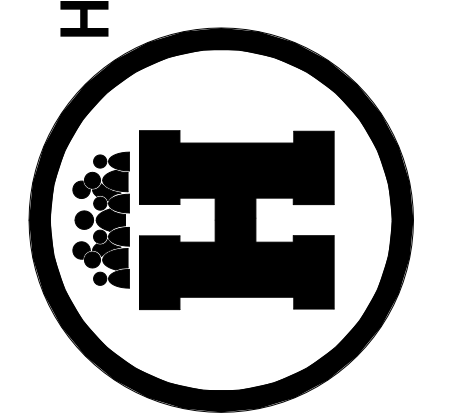
REGISTERED ARCHITECT
JOSE J. CALZADA
1312024
STATE OF TEXAS

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ARCHITECTURE INTERIOR DESIGN PLANNING
17038 REDLAND RD., SUITE 101, SAN ANTONIO, TEXAS 78247
t. 210.384.8200 f. 210.319.3555
architecturasai@yahoo.com

HISD CAREER TECHNOLOGY EDUCATION (CTE)
HARLANDALE INDEPENDENT SCHOOL DISTRICT
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SAN ANTONIO, TX 78221



Drawn By: VMC
Checked By: SAV
Job Number: 23-09

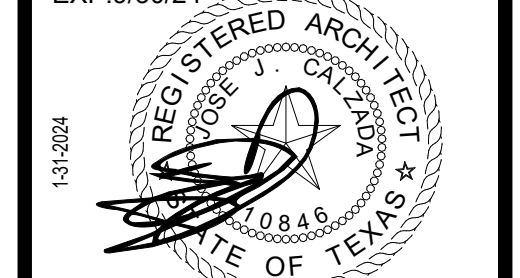
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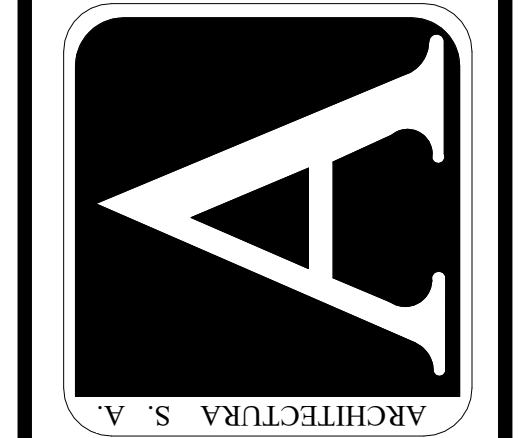
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Drawing No:

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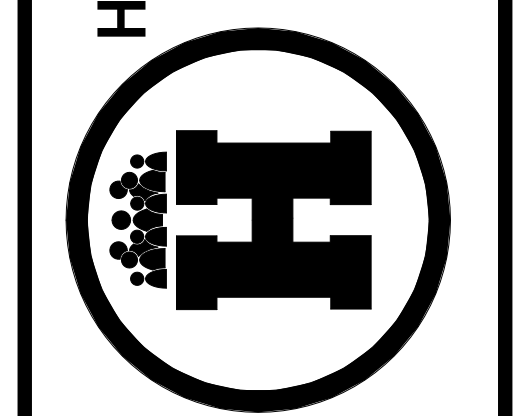


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ARCHITECTURE INTERIOR DESIGN PLANNING
17038 REDLAND RD., SUITE 101, SAN ANTONIO, TEXAS 78247
t. 210.384.8200 f. 210.319.3555
architecturasai@yahoo.com

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HARLANDALE INDEPENDENT SCHOOL DISTRICT
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DEMOLITION PLAN

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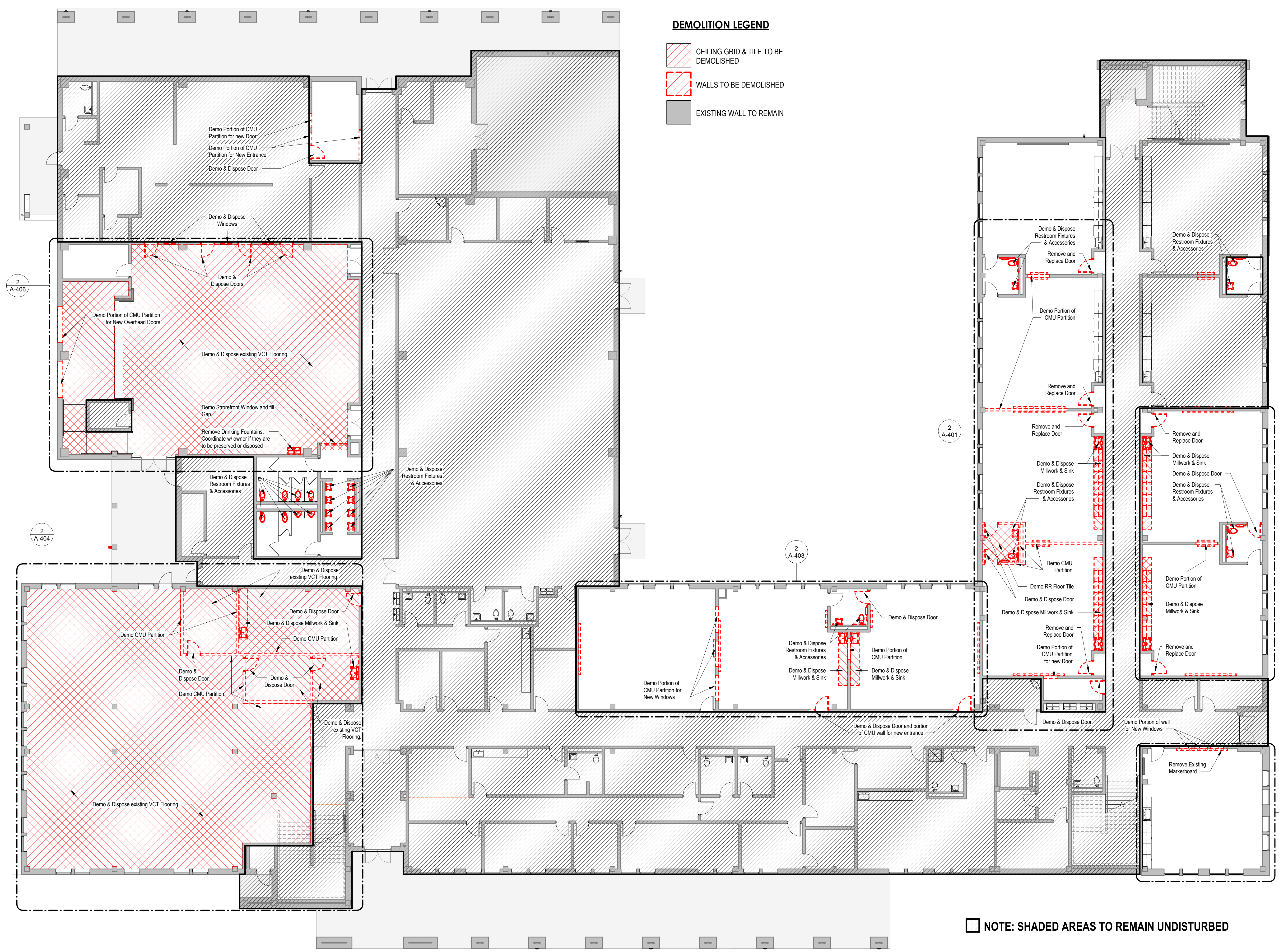
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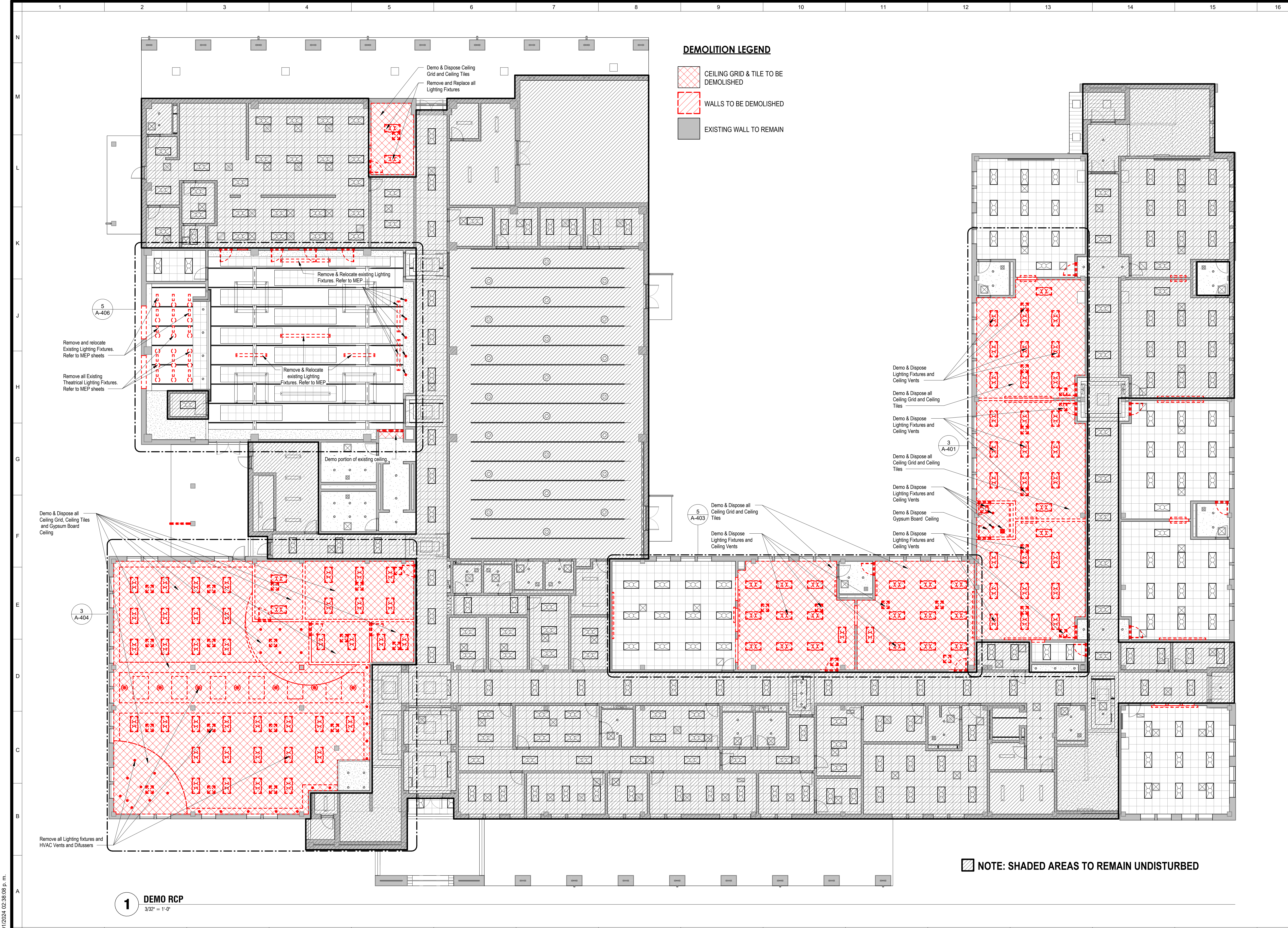
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- WALLS TO BE DEMOLISHED
- EXISTING WALL TO REMAIN

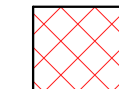




NOTE: SHADED AREAS TO REMAIN UNDISTURBED

1 DEMO PLAN
3/32" = 1'-0"

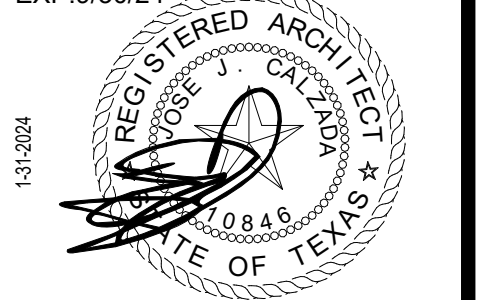


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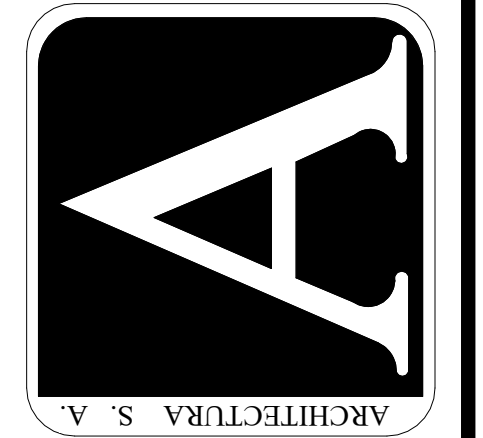
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-  WALLS TO BE DEMOLISHED
-  EXISTING WALL TO REMAIN

 NOTE: SHADED AREAS TO REMAIN UNDISTURBED

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3/32" = 1'-0"

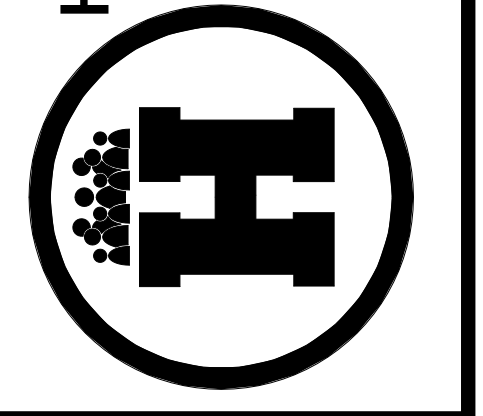


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ARCHITECTURA S.A., INC.
ARCHITECTURE INTERIOR DESIGN PLANNING
17038 REDLAND RD., SUITE 101, SAN ANTONIO, TEXAS 78247
t. 210.384.8200 f. 210.319.3555
architecturasai@yahoo.com

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HARLANDALE INDEPENDENT SCHOOL DISTRICT
519 W HARDING BLVD.
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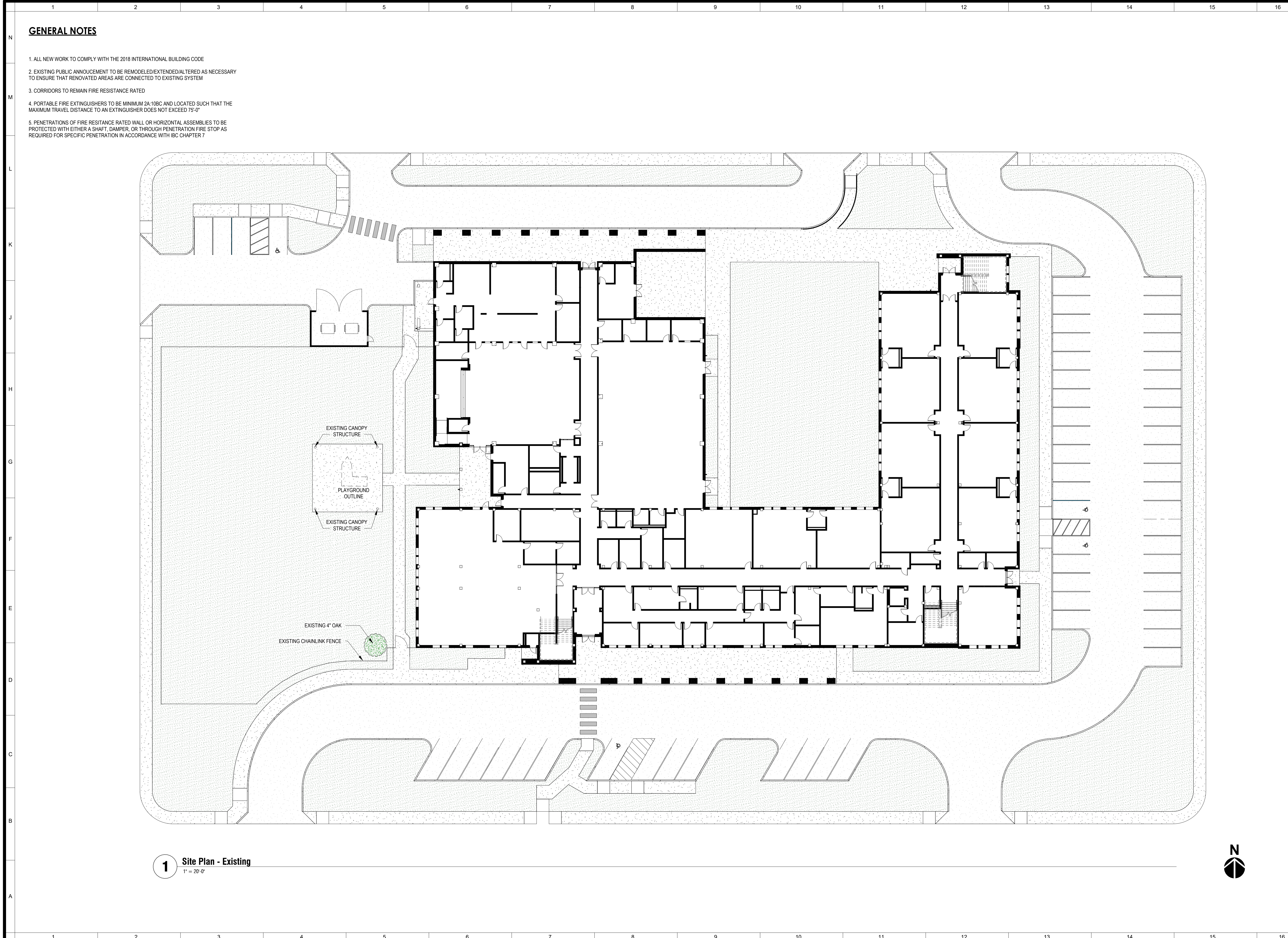
Drawn By: VMC
Checked By: SAV
Job Number: 23-09

DEMOLITION REFLECTED CEILING PLAN

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Date: 01/31/2024
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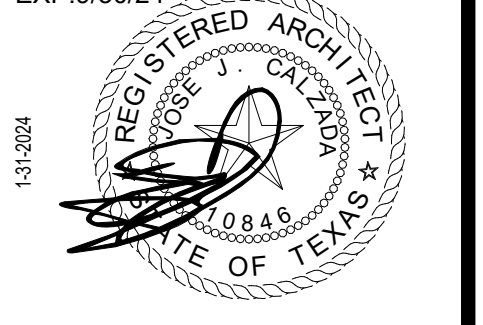
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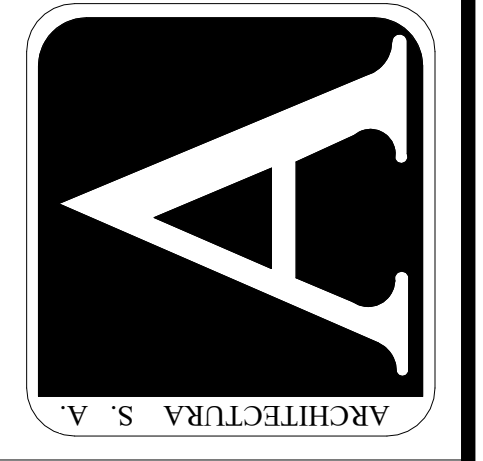
GENERAL NOTES

1. ALL NEW WORK TO COMPLY WITH THE 2018 INTERNATIONAL BUILDING CODE
2. EXISTING PUBLIC ANNOUNCEMENT TO BE REMODELED/EXTENDED/TERED AS NECESSARY TO ENSURE THAT RENOVATED AREAS ARE CONNECTED TO EXISTING SYSTEM
3. CORRIDORS TO REMAIN FIRE RESISTANCE RATED
4. PORTABLE FIRE EXTINGUISHERS TO BE MINIMUM 2A-10BC AND LOCATED SUCH THAT THE MAXIMUM TRAVEL DISTANCE TO AN EXTINGUISHER DOES NOT EXCEED 75'-0"
5. PENETRATIONS OF FIRE RESISTANCE RATED WALL OR HORIZONTAL ASSEMBLIES TO BE PROTECTED WITH EITHER A SHAFT, DAMPER, OR THROUGH PENETRATION FIRE STOP AS REQUIRED FOR SPECIFIC PENETRATION IN ACCORDANCE WITH IBC CHAPTER 7

1 Site Plan - Existing
1" = 20'-0"

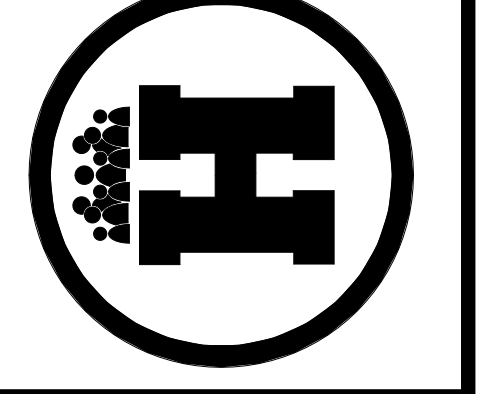


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ARCHITECTURE INTERIOR DESIGN PLANNING
17038 REDLAND RD., SUITE 101, SAN ANTONIO, TEXAS 78247
t. 210.384.8200 f. 210.319.3555
architecturasa@yahoo.com

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519 W HARDING BLVD.
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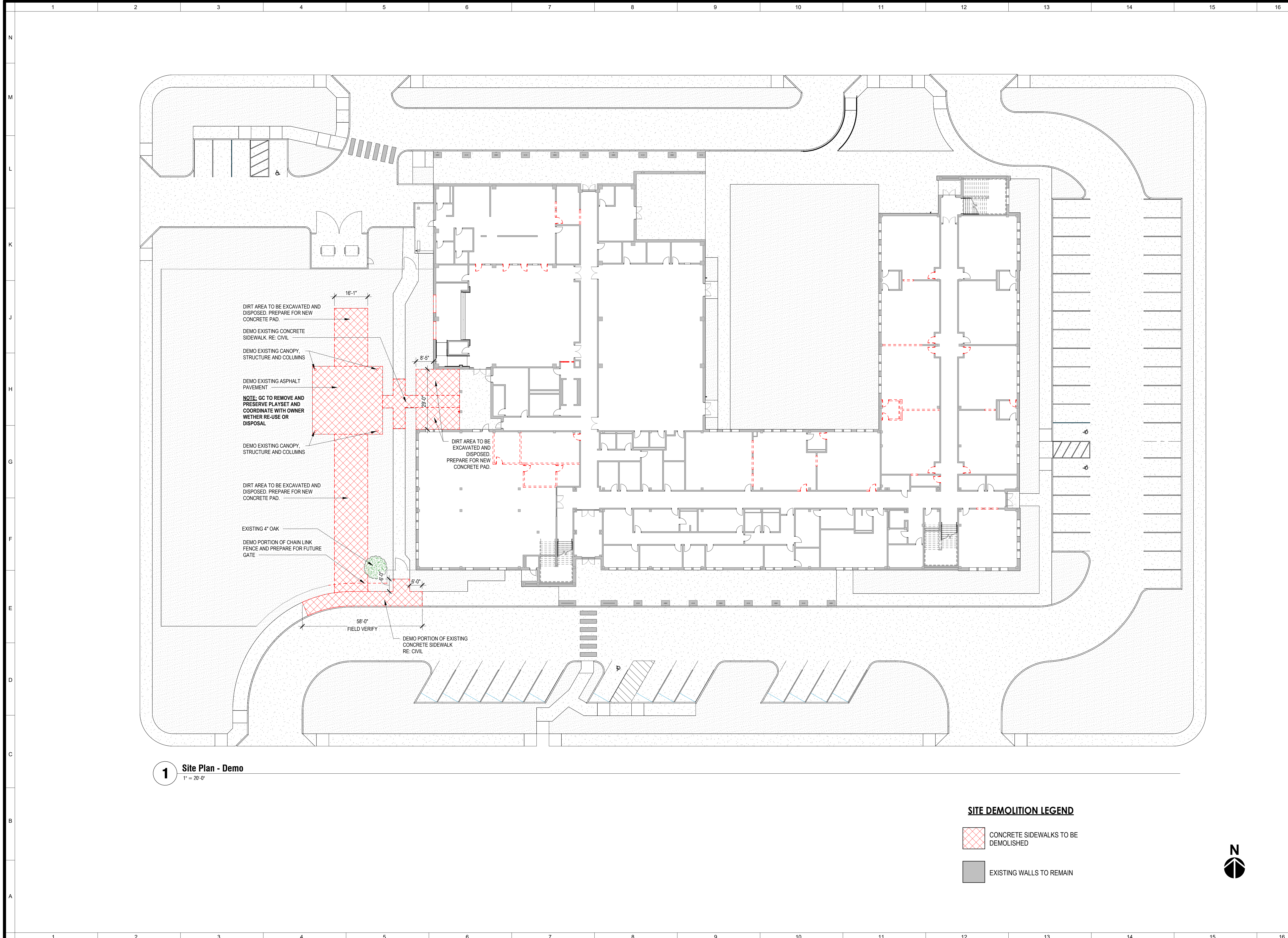
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EXISTING SITE PLAN

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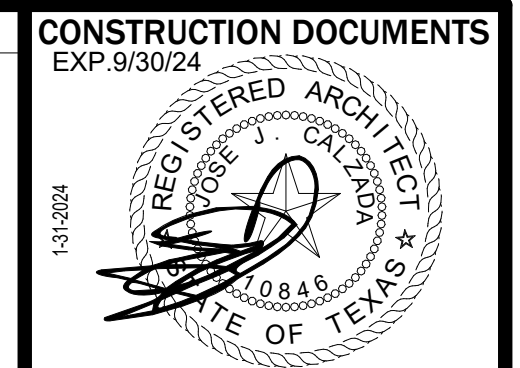
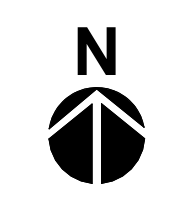
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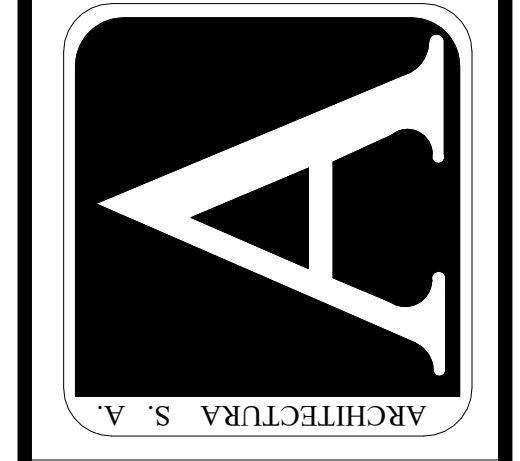
1 Site Plan - Demo
1" = 20'-0"

SITE DEMOLITION LEGEND

- CONCRETE SIDEWALKS TO BE DEMOLISHED
- EXISTING WALLS TO REMAIN

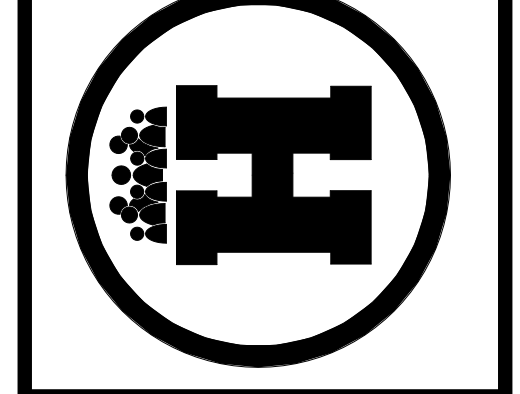


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t. 210.384.8200 f. 210.319.3555
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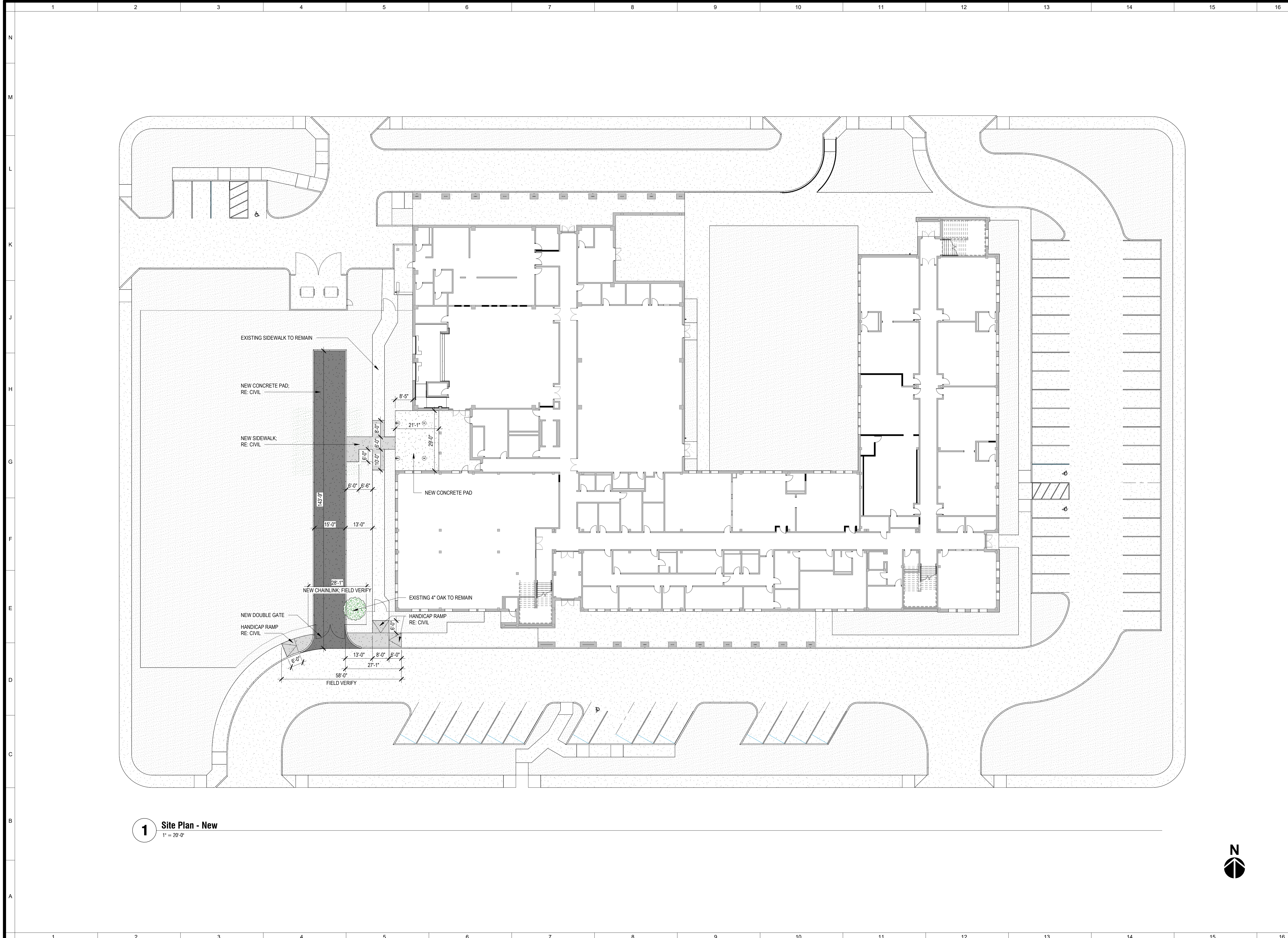
Drawn By: VMC
Checked By: SAV
Job Number: 23-09

DEMO SITE PLAN

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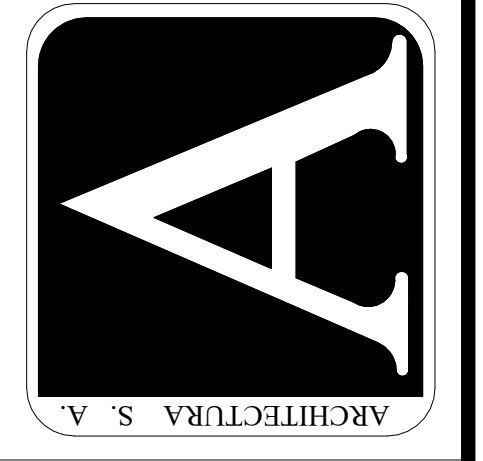
AS-102



1 Site Plan - New
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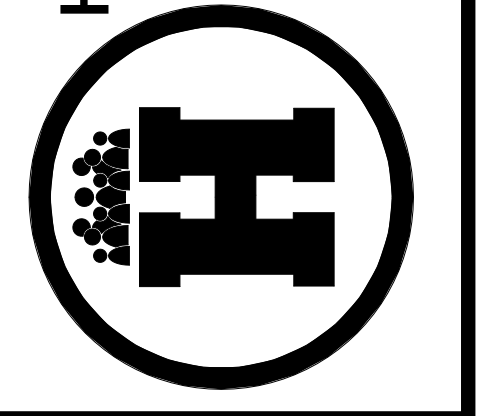


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ARCHITECTURE INTERIOR DESIGN PLANNING
17038 REDLAND RD., SUITE 101, SAN ANTONIO, TEXAS 78247
t. 210.384.8200 f. 210.319.3555
architecturasa@yahoo.com

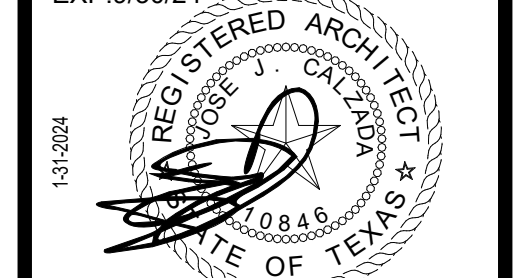
**HISD CAREER TECHNOLOGY
EDUCATION (CTE)**
HARLANDALE INDEPENDENT SCHOOL DISTRICT
519 W HARDING BLVD.
SAN ANTONIO, TX 78221



Drawn By: VMC
Checked By: SAV
Job Number: 23-09

| NEW SITE PLAN | | |
|---------------|------|-------------|
| No. | DATE | DESCRIPTION |
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Date: 01/31/2024
Drawing No: **AS-103**

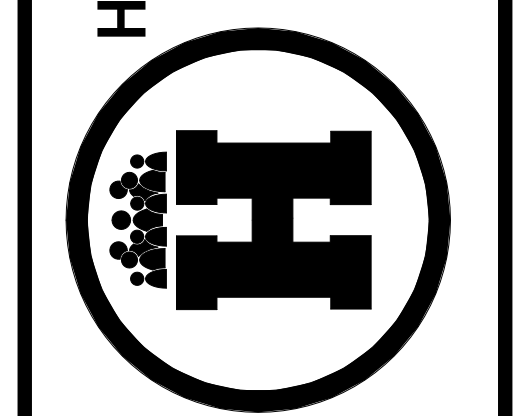


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architecturasai@yahoo.com

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519 W HARDING BLVD.
SAN ANTONIO, TX 78221



Drawn By: VMC
Checked By: SAV
Job Number: 23-09

EXISTING CONDITIONS

| No. | DATE | DESCRIPTION |
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Date: 01/31/2024
Drawing No:

A-100

NOTE: PROJECT SCOPE LIMITED TO GROUND FLOOR ONLY. NO ALTERATIONS ON SECOND FLOOR UNDER THIS CONTRACT

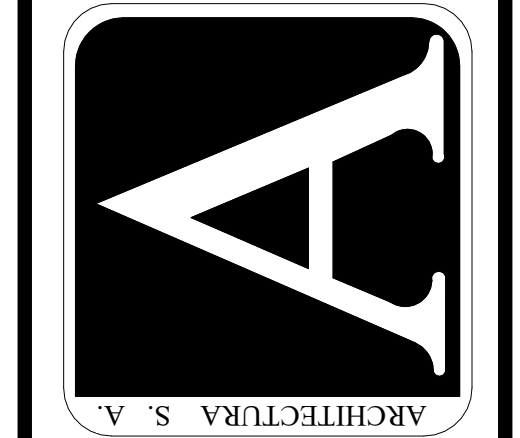


1 EXISTING FLOOR PLAN
3/32" = 1'-0"

3/10/2024 02:44:44 p. m.

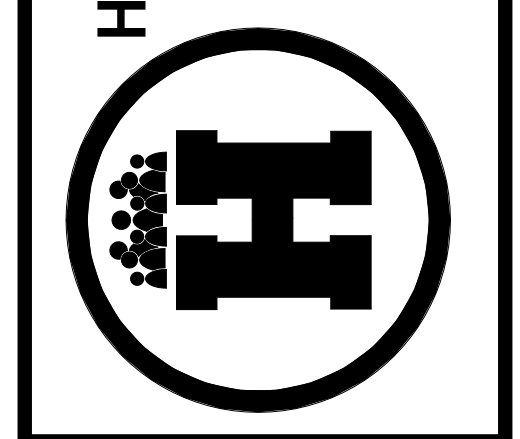


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519 W HARDING BLVD.
SAN ANTONIO, TX 78221



Drawn By: VMC
Checked By: SAV
Job Number: 23-09

1st FLOOR PLAN

| No. | DATE | DESCRIPTION |
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Date: 01/31/2024

Drawing No:

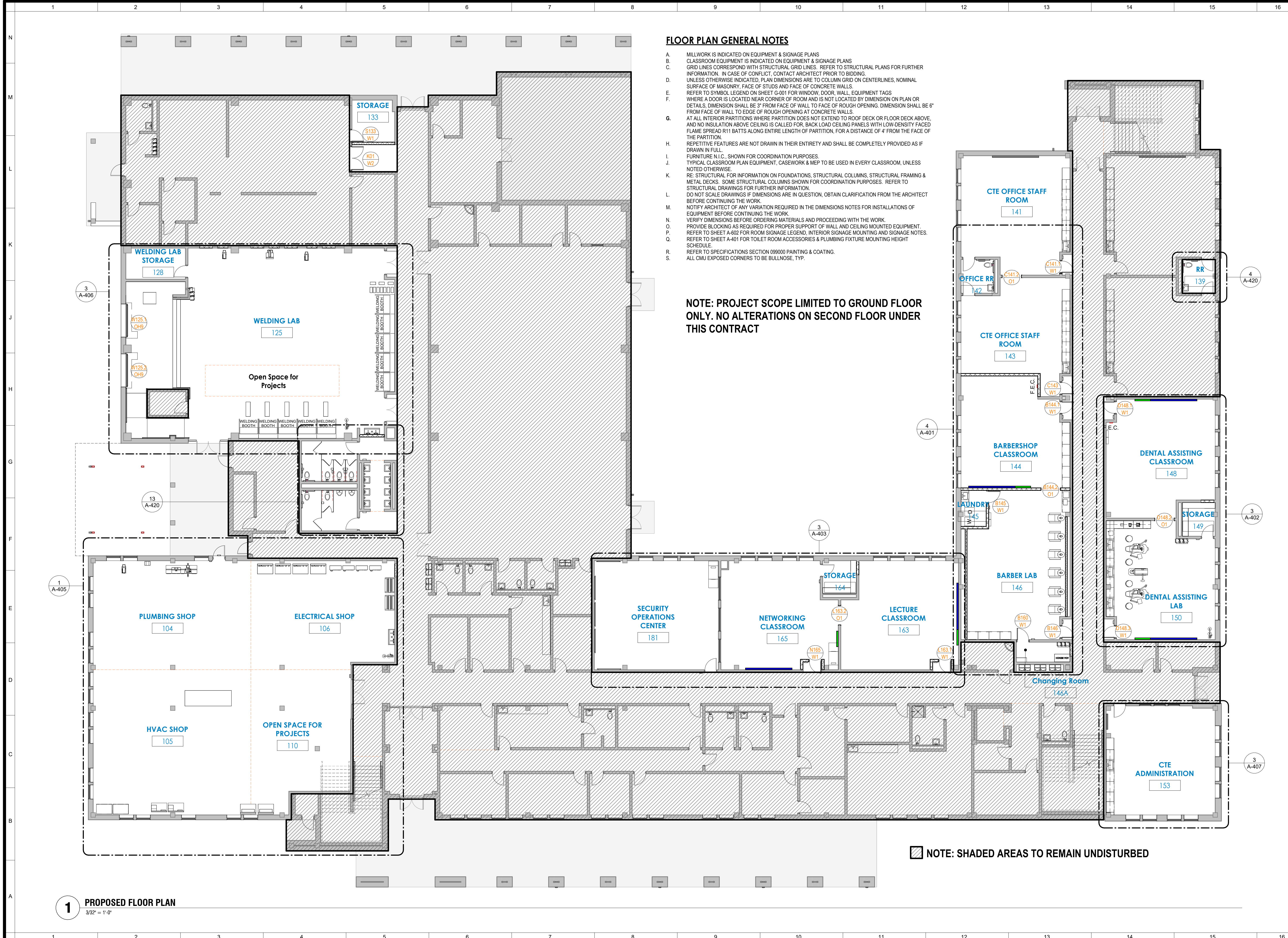
A-101

FLOOR PLAN GENERAL NOTES

- A. MILLWORK IS INDICATED ON EQUIPMENT & SIGNAGE PLANS
- B. CLASSROOM EQUIPMENT IS INDICATED ON EQUIPMENT & SIGNAGE PLANS
- C. GRID LINES CORRESPOND WITH STRUCTURAL GRID LINES. REFER TO STRUCTURAL PLANS FOR FURTHER INFORMATION. IN CASE OF CONFLICT, CONTACT ARCHITECT PRIOR TO BIDDING.
- D. UNLESS OTHERWISE INDICATED, PLAN DIMENSIONS ARE TO COLUMN GRID ON CENTERLINES, NOMINAL SURFACE OF MASONRY, FACE OF STUDS AND FACE OF CONCRETE WALLS.
- E. REFER TO SYMBOL LEGEND ON SHEET G-001 FOR WINDOW, DOOR, WALL, EQUIPMENT TAGS
- F. WHERE A DOOR IS LOCATED NEAR CORNER OF ROOM AND IS NOT LOCATED BY DIMENSION ON PLAN OR DETAILS, DIMENSION SHALL BE 3" FROM FACE OF WALL TO FACE OF ROUGH OPENING. DIMENSION SHALL BE 6" FROM FACE OF WALL TO EDGE OF ROUGH OPENING AT CONCRETE WALLS.
- G. AT ALL INTERIOR PARTITIONS WHERE PARTITION DOES NOT EXTEND TO ROOF DECK OR FLOOR DECK ABOVE, AND NO INSULATION ABOVE CEILING IS CALLED FOR, BACK LOAD CEILING PANELS WITH LOW-DENSITY FACED FLAME SPREAD R11 BATTS ALONG ENTIRE LENGTH OF PARTITION, FOR A DISTANCE OF 4' FROM THE FACE OF THE PARTITION.
- H. REPETITIVE FEATURES ARE NOT DRAWN IN THEIR ENTIRETY AND SHALL BE COMPLETELY PROVIDED AS IF DRAWN IN FULL.
- I. FURNITURE N.I.C. SHOWN FOR COORDINATION PURPOSES
- J. TYPICAL CLASSROOM PLAN EQUIPMENT, CASEWORK & MEP TO BE USED IN EVERY CLASSROOM, UNLESS NOTED OTHERWISE.
- K. RE: STRUCTURAL FOR INFORMATION ON FOUNDATIONS, STRUCTURAL COLUMNS, STRUCTURAL FRAMING & METAL DECKS. SOME STRUCTURAL COLUMNS SHOWN FOR COORDINATION PURPOSES. REFER TO STRUCTURAL DRAWINGS FOR FURTHER INFORMATION.
- L. DO NOT SCALE DRAWINGS IF DIMENSIONS ARE IN QUESTION, OBTAIN CLARIFICATION FROM THE ARCHITECT BEFORE CONTINUING THE WORK.
- M. NOTIFY ARCHITECT OF ANY VARIATION REQUIRED IN THE DIMENSIONS NOTES FOR INSTALLATIONS OF EQUIPMENT BEFORE CONTINUING THE WORK.
- N. VERIFY DIMENSIONS BEFORE ORDERING MATERIALS AND PROCEEDING WITH THE WORK.
- O. PROVIDE BLOCKING AS REQUIRED FOR PROPER SUPPORT OF WALL AND CEILING MOUNTED EQUIPMENT.
- P. REFER TO SHEET A-602 FOR ROOM SIGNAGE LEGEND, INTERIOR SIGNAGE MOUNTING AND SIGNAGE NOTES.
- Q. REFER TO SHEET A-401 FOR TOILET ROOM ACCESSORIES & PLUMBING FIXTURE MOUNTING HEIGHT SCHEDULE.
- R. REFER TO SPECIFICATIONS SECTION 099000 PAINTING & COATING.
- S. ALL CMU EXPOSED CORNERS TO BE BULLNOSE, TYP.

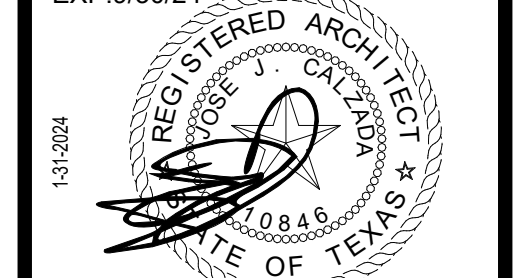
NOTE: PROJECT SCOPE LIMITED TO GROUND FLOOR ONLY. NO ALTERATIONS ON SECOND FLOOR UNDER THIS CONTRACT

NOTE: SHADED AREAS TO REMAIN UNDISTURBED

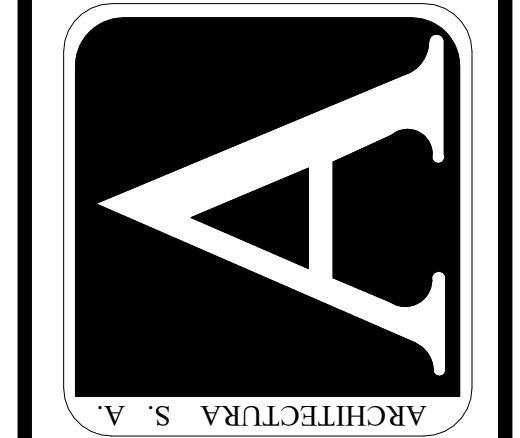


1 PROPOSED FLOOR PLAN
3/32" = 1'-0"

3/10/2024 02:44:45 p. m.

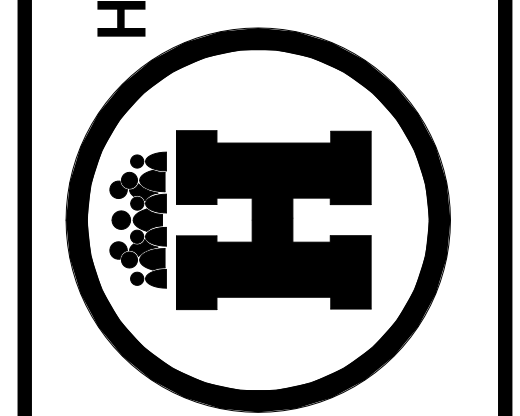


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ARCHITECTURE INTERIOR DESIGN PLANNING
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t. 210.384.8200 f. 210.319.3555
architecturasa@yahoo.com

HISD CAREER TECHNOLOGY EDUCATION (CTE)
HARLANDALE INDEPENDENT SCHOOL DISTRICT
519 W HARDING BLVD.
SAN ANTONIO, TX 78221



Drawn By: VMC
Checked By: SAV
Job Number: 23-09

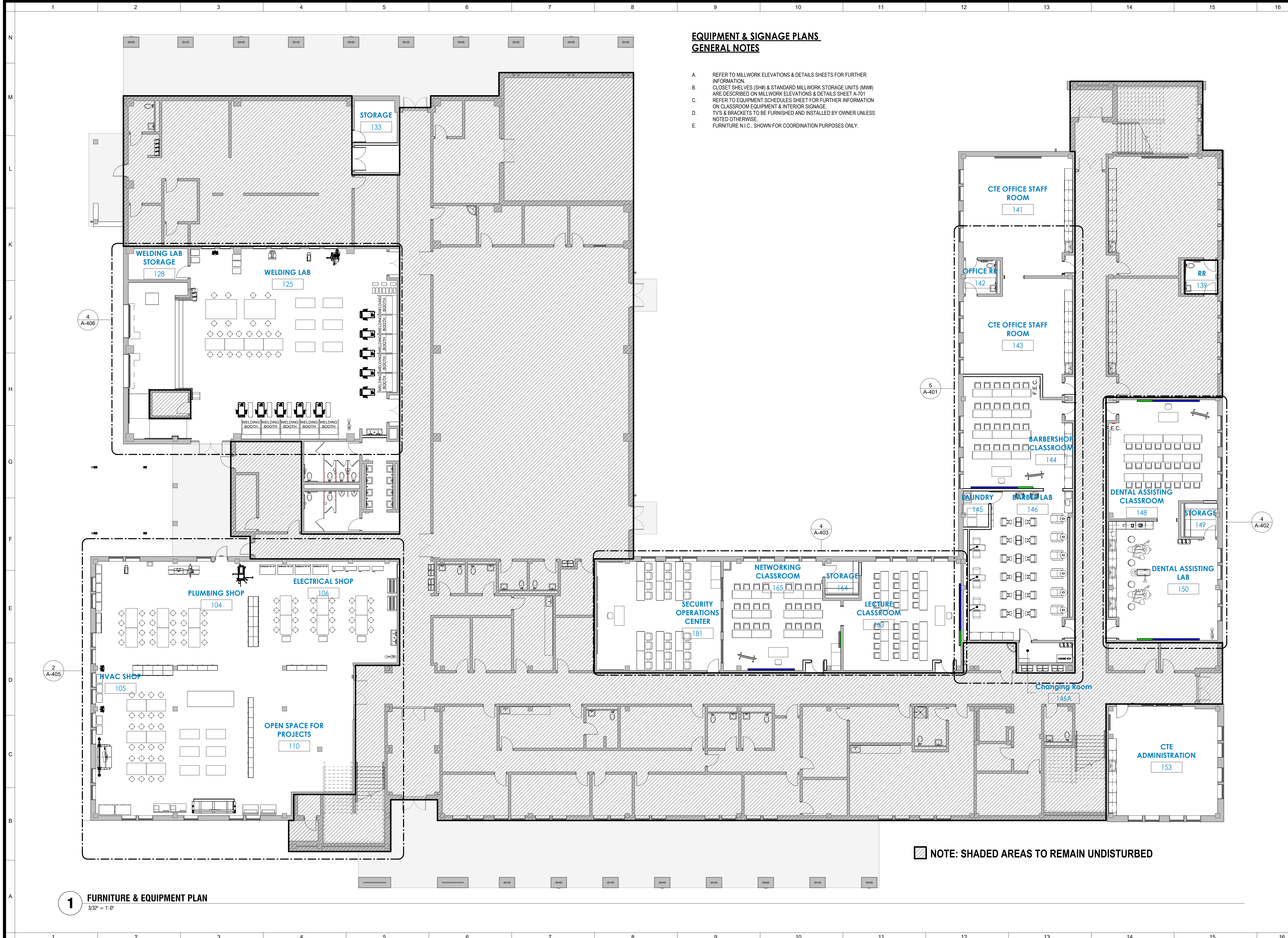
FURNITURE & EQUIPMENT PLAN

| No. | DATE | DESCRIPTION |
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Date: 01/31/2024
Drawing No:

**EQUIPMENT & SIGNAGE PLANS
GENERAL NOTES**

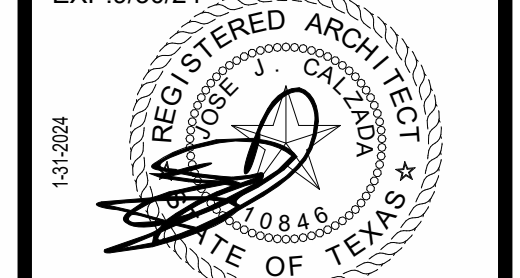
- A. REFER TO MILLWORK ELEVATIONS & DETAILS SHEETS FOR FURTHER INFORMATION.
- B. CLOSET SHELVES (SH) & STANDARD MILLWORK STORAGE UNITS (MWS) ARE DESCRIBED ON MILLWORK ELEVATIONS & DETAILS SHEET A-701.
- C. REFER TO EQUIPMENT SCHEDULES SHEET FOR FURTHER INFORMATION ON CLASSROOM EQUIPMENT & INTERIOR SIGNAGE.
- D. TV'S & BRACKETS TO BE FURNISHED AND INSTALLED BY OWNER UNLESS NOTED OTHERWISE.
- E. FURNITURE N.I.C., SHOWN FOR COORDINATION PURPOSES ONLY.



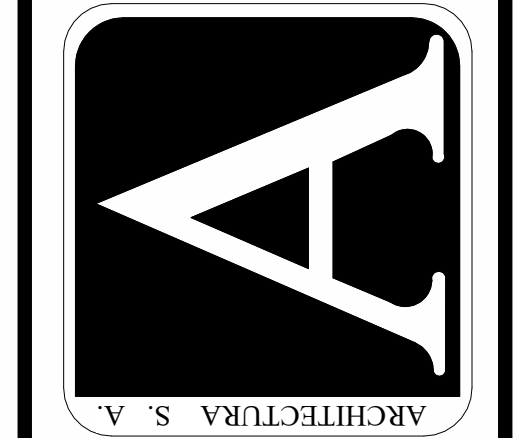
NOTE: SHADED AREAS TO REMAIN UNDISTURBED

1 FURNITURE & EQUIPMENT PLAN
3/32" = 1'-0"

3/10/2024 02:44:58 p. m.

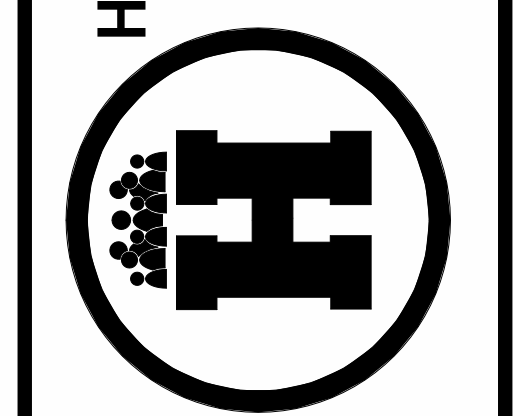


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t. 210.384.8200 f. 210.319.3555
architecturasai@yahoo.com

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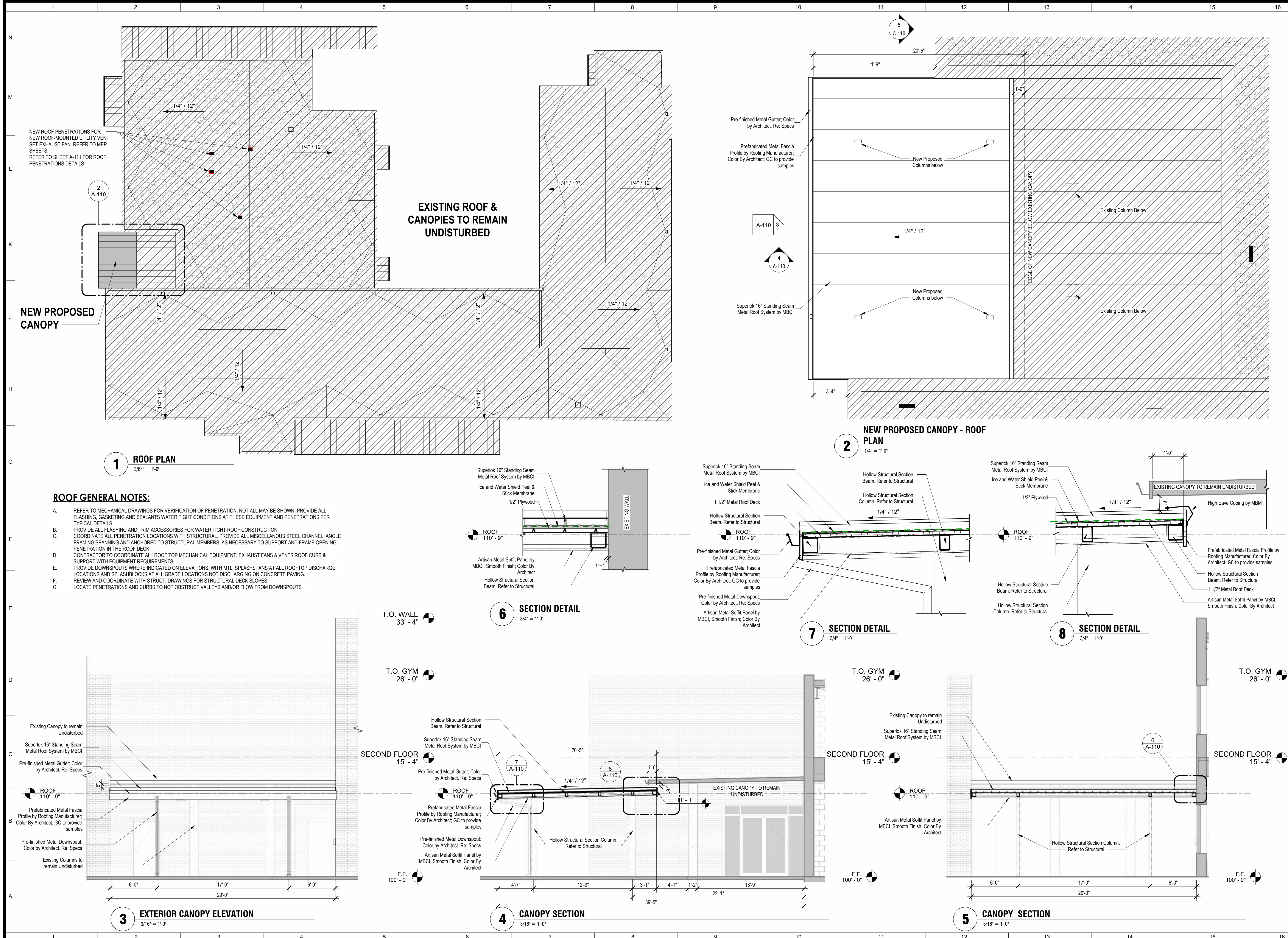


Drawn By: VMC
Checked By: SAV
Job Number: 23-09

| No. | DATE | DESCRIPTION |
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Date: 01/31/2024

Drawing No:
A-110



3/10/2024 02:45:05 p. m.

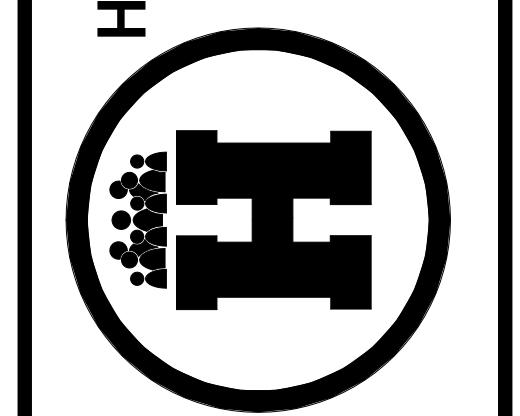


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t. 210.384.8200 f. 210.319.3555
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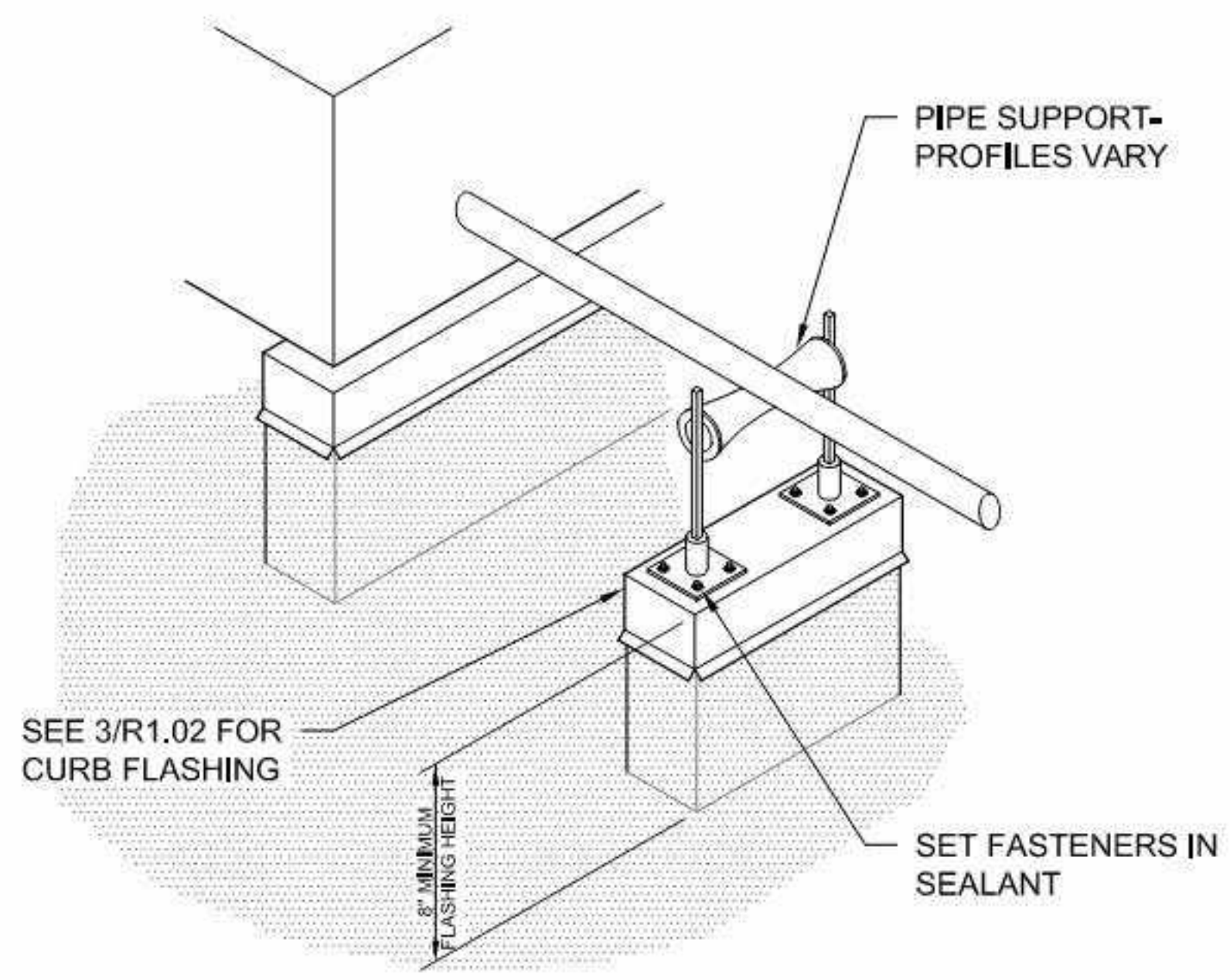
Drawn By: VMC
Checked By: SAV
Job Number: 23-09

ROOF DETAILS

| No. | DATE | DESCRIPTION |
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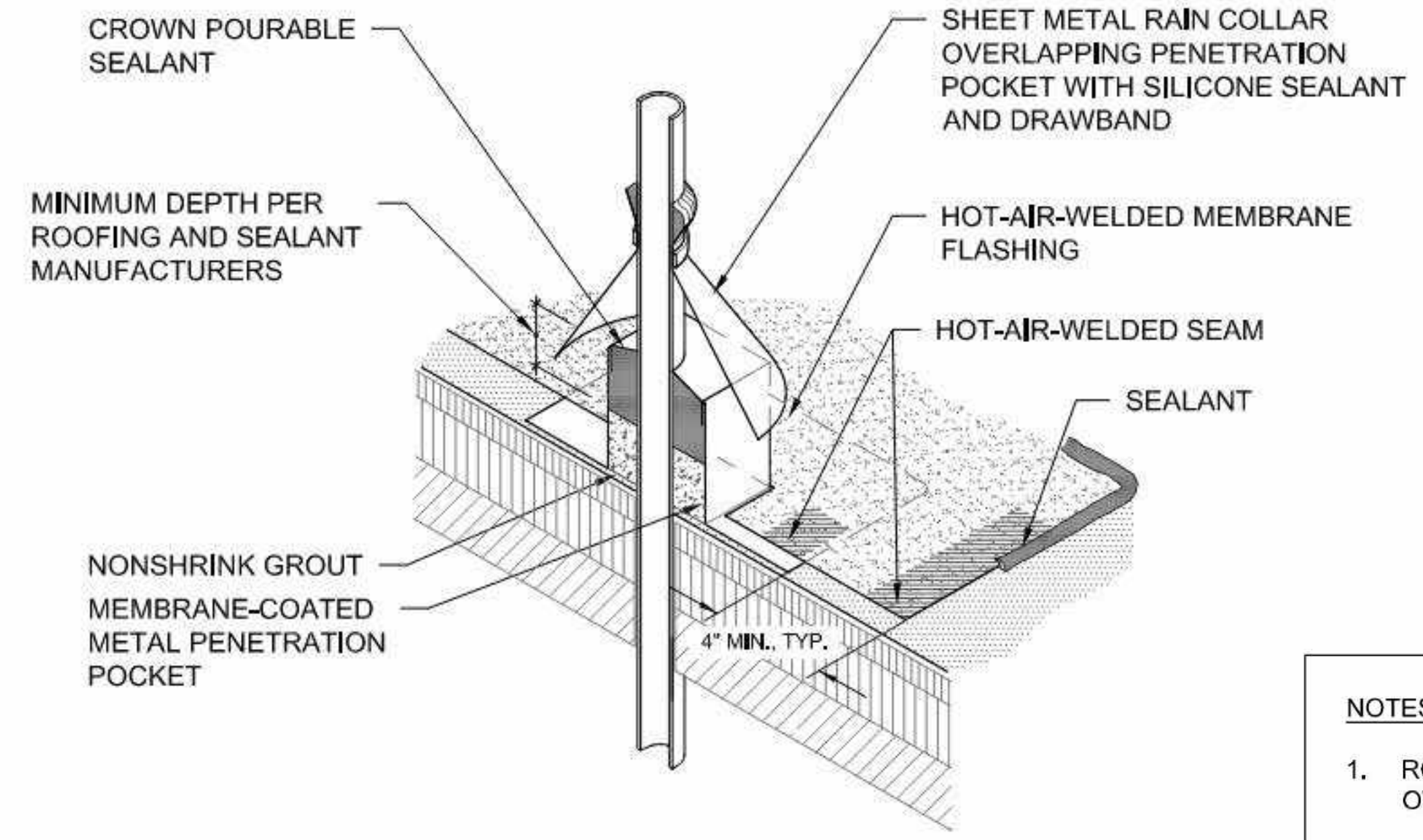
Date: 01/31/2024

Drawing No: **A-111**



NOTE:
THIS DETAIL IS DESIGNED TO ELIMINATE ROOF DAMAGE DUE TO EXPANSION AND CONTRACTION OF PIPES. PIPE SUPPORT PROFILES VARY.

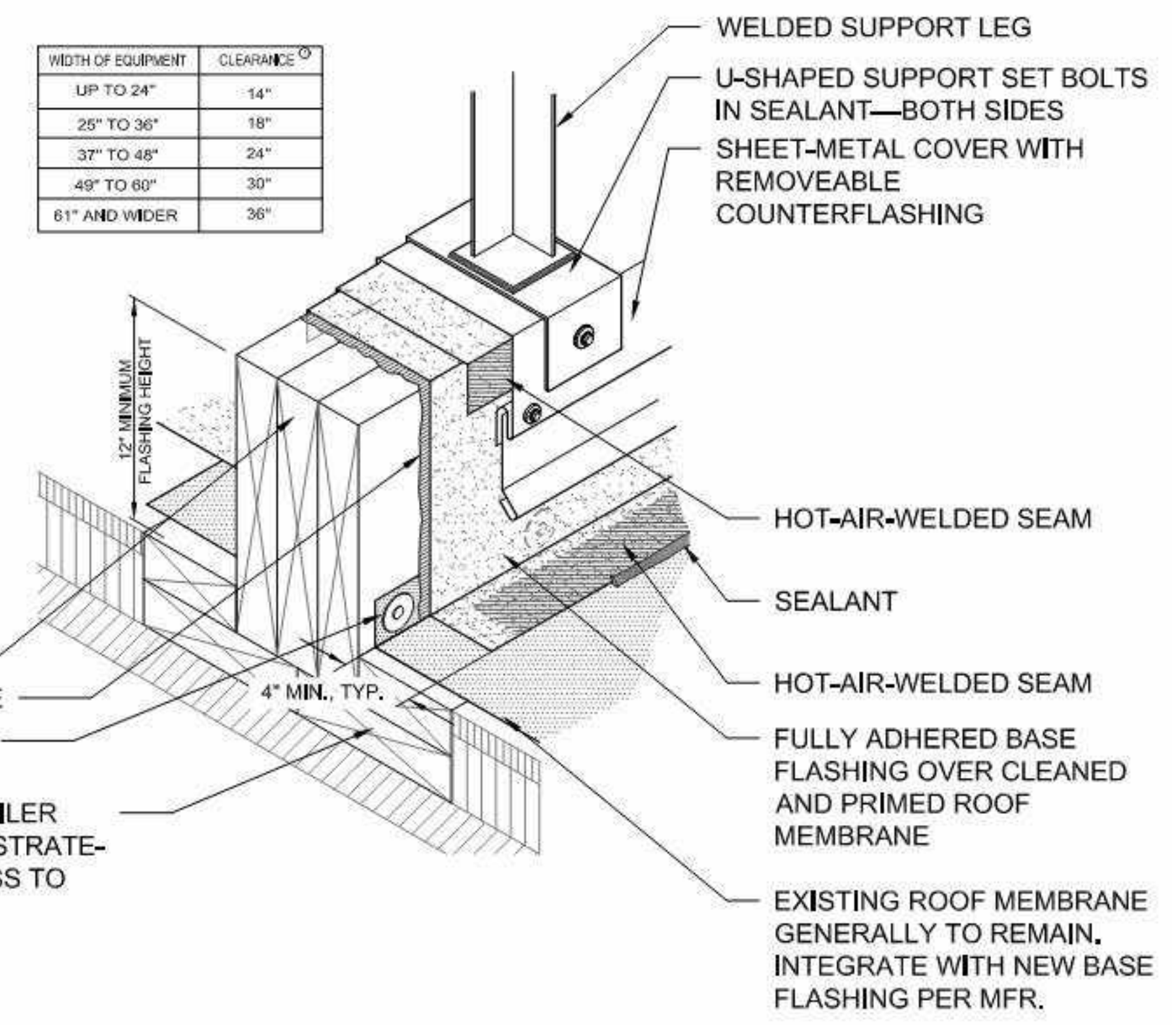
1 PIPE SUPPORT CURB
SCALE: NTS



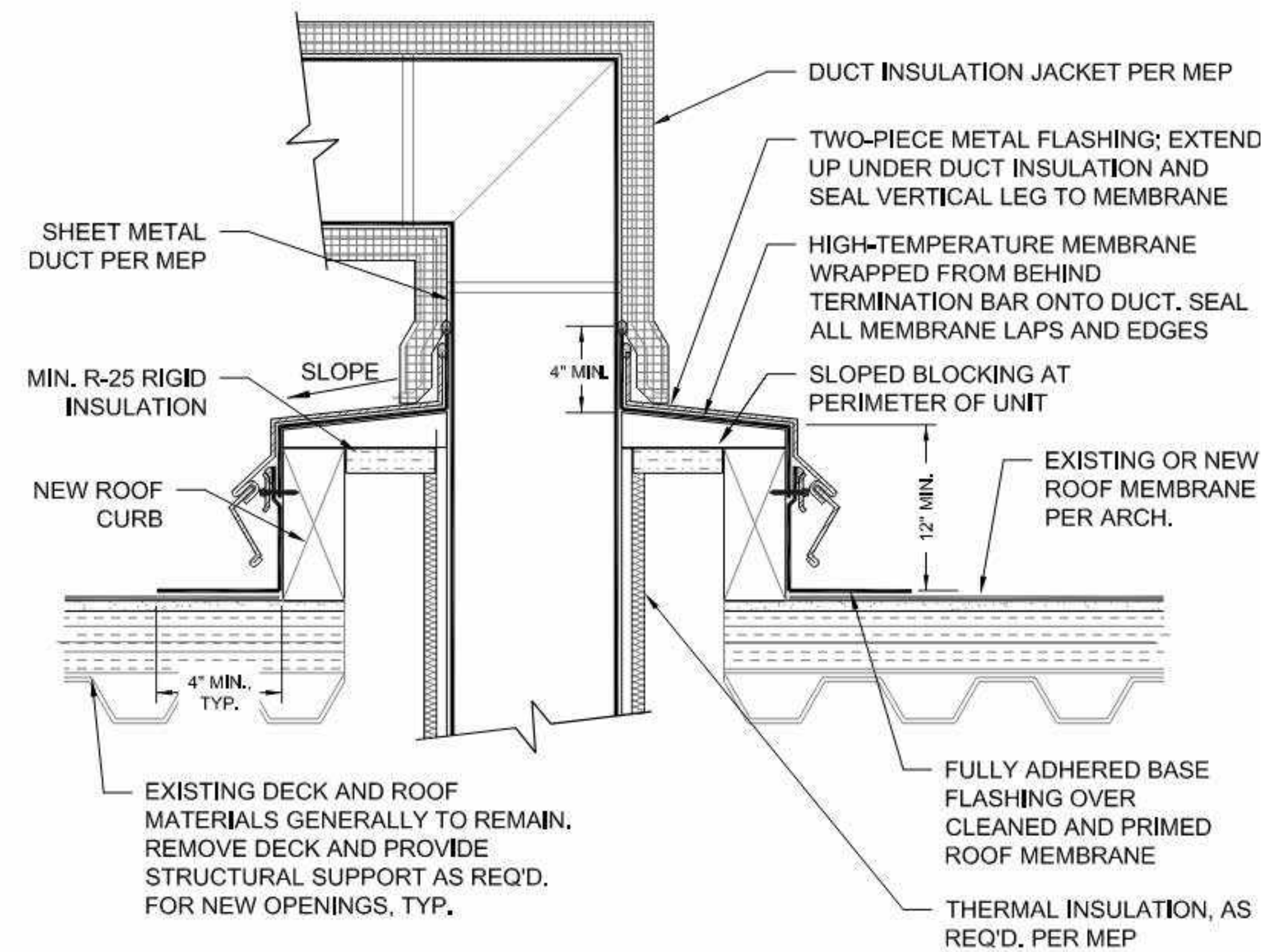
NOTE:
PENETRATION POCKETS ARE NOT THE PREFERRED FLASHING METHOD AT PENETRATIONS BECAUSE THEY MAY BE A MAINTENANCE PROBLEM. DETAIL TO BE USED ONLY WHEN A SUPPORT CURB, AS SHOWN TO LEFT AND RIGHT, IS NOT PRACTICAL OR POSSIBLE.

2 METAL PENETRATION POCKET
SCALE: NTS

- NOTES:**
1. ROOFING IS UNDER AN EXISTING WARRANTY. CONTACT OWNER FOR WARRANTY INFORMATION.
 2. ALL ROOFING WORK TO BE PERFORMED BY CONTRACTORS CERTIFIED BY THE MANUFACTURER HOLDING THE WARRANTY. CONTACT MANUFACTURER FOR PRE- AND POST-INSPECTIONS.
 3. AFTER WORK IS COMPLETED, MANUFACTURER TO PROVIDE COMPLIANCE LETTER INDICATING WARRANTY REMAINS IN FULL FORCE AND EFFECT.
 4. NOTIFY DESIGN TEAM OF MOISTURE OR DEGRADED MATERIALS ENCOUNTERED DURING ROOF WORK VIA RFI FOR FURTHER REVIEW AND DIRECTION.



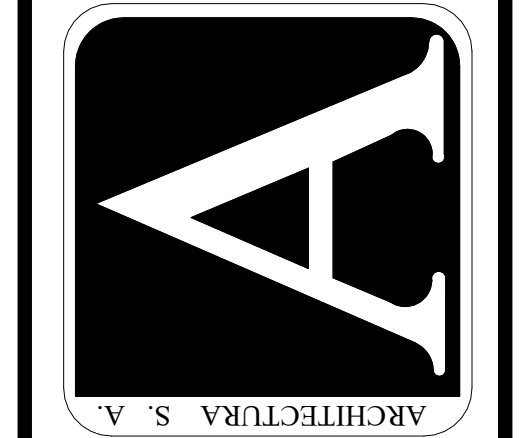
3 EQUIPMENT SUPPORT CURB
SCALE: NTS



4 DUCT PENETRATION THROUGH ROOF
SCALE: NTS

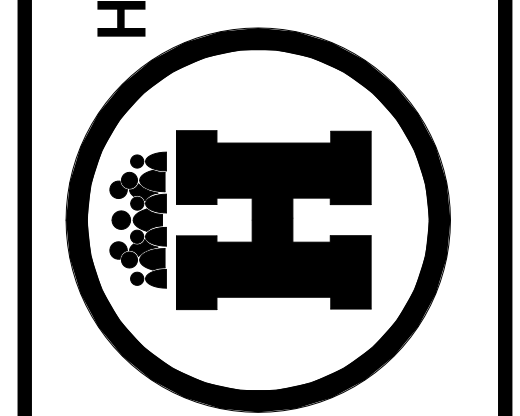


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SAN ANTONIO, TX 78221



Drawn By: VMC
Checked By: SAV
Job Number: 23-09

1st FLOOR RCP

| No. | DATE | DESCRIPTION |
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Date: 01/31/2024

Drawing No:

A-120

REFLECTED CEILING PLAN GENERAL NOTES

- A. REFER TO ELECTRICAL DRAWINGS FOR LIGHTING SCHEDULES & LIGHTING LOCATIONS.
- B. REFER TO M.E.P. DRAWINGS FOR DESIGN OF DUCT SIZES, CIRCUITING, ETC. REFLECTED CEILING PLANS TO GOVERN LOCATION OF ITEMS INSTALLED IN CEILINGS. NOTIFY ARCHITECT IN CASE OF CONFLICTS.
- C. INSTALL REGISTERS & LIGHTING FIXTURES WITHIN CEILING GRIDS. INSTALL SPRINKLER HEADS, DOWNLIGHT FIXTURES OR OTHER CEILING ELEMENTS IN THE GEOMETRIC CENTER OF CEILING TILES OR CENTER OF CORRIDOR, UNLESS NOTED OTHERWISE.
- D. CENTER ALL EXIT SIGNS, SMOKE DETECTORS, ETC. ON CENTER OF CORRIDOR AND CENTERLINE OF LIGHT FIXTURES UNLESS NOTED OTHERWISE.
- E. REFER TO MEP DRAWINGS FOR EXIT LIGHTS, SWITCHES, FIRE ALARM PULL, A.D.A. STROBE LOCATIONS, ETC. GO TO COORDINATE WITH OWNER & ARCHITECT FOR FINAL LOCATIONS OF ALL MEP, LIFE SAFETY, I.T./A.V. & SECURITY DEVICES.
- F. GEN. CONTRACTOR SHALL PROVIDE THE NUMBER OF SPRINKLER HEADS & LOCATIONS AS REQUIRED BY GOVERNING CODES & AUTHORITIES AT NO ADDITIONAL COST TO THE OWNER. COORDINATE WITH ARCHITECT FOR FINAL LOCATIONS. SPRINKLER HEADS TO BE LOCATED AT CENTER OF CEILING TILES.
- G. SUBMIT SPRINKLER HEAD & RISER ROOM LAYOUT SHOP DRAWINGS.
- H. NO ACCESS PANELS ARE TO BE LOCATED IN GYPSUM BOARD CEILING OF LOBBY, VESTIBULE, PUBLIC CORRIDOR. REFER TO I.T. DRAWINGS FOR ADDITIONAL A.V. EQUIPMENT INFORMATION AND LOCATIONS. PROVIDE BLOCKING AS REQUIRED FOR MOUNTING EQUIPMENT. PROVIDE MESH CABLE TRAYS AT ALL CABLE ROUTES.
- I. ALL EXTERIOR WALLS SHALL EXTEND TO DECK AND BE SEALED, INCLUDING WALLS ADJACENT TO SOFFITS AND ABOVE DOORS AND WINDOWS.
- K. EXTEND PERIMETER WALLS AT MECHANICAL ROOMS, ELECTRICAL ROOMS MDF ROOM, ELEVATOR SHAFTS & STAIRWELLS UP TO STRUCTURAL DECK.

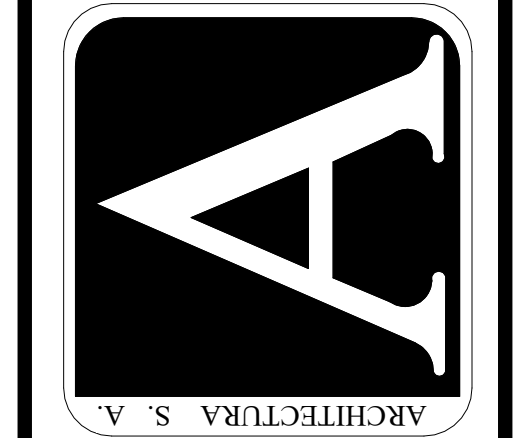
CEILING SCHEDULE

| Type Mark | Description |
|-----------|--|
| ACT-1 | 2x2 Acoustical Ceiling Tile |
| GCB-1 | 5/8" Gypsum Board on Metal Stud Framing |
| GCB-2 | 5/8" Moisture-Resistant Type X Gypsum Board on Metal Stud framing; re: Specs |
| MSP | Metal Soffit Panels |



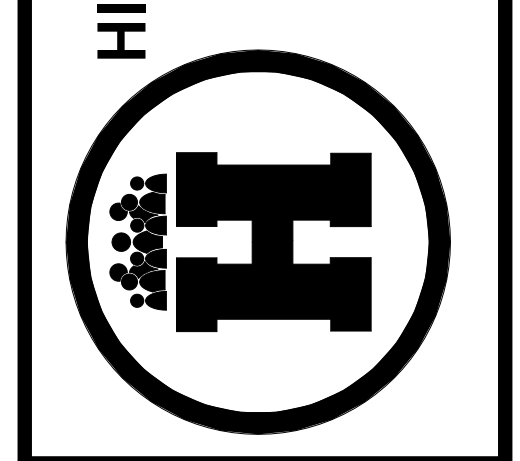
NOTE: SHADED AREAS TO REMAIN UNDISTURBED

1 REFLECTED CEILING PLAN
3/32" = 1'-0"



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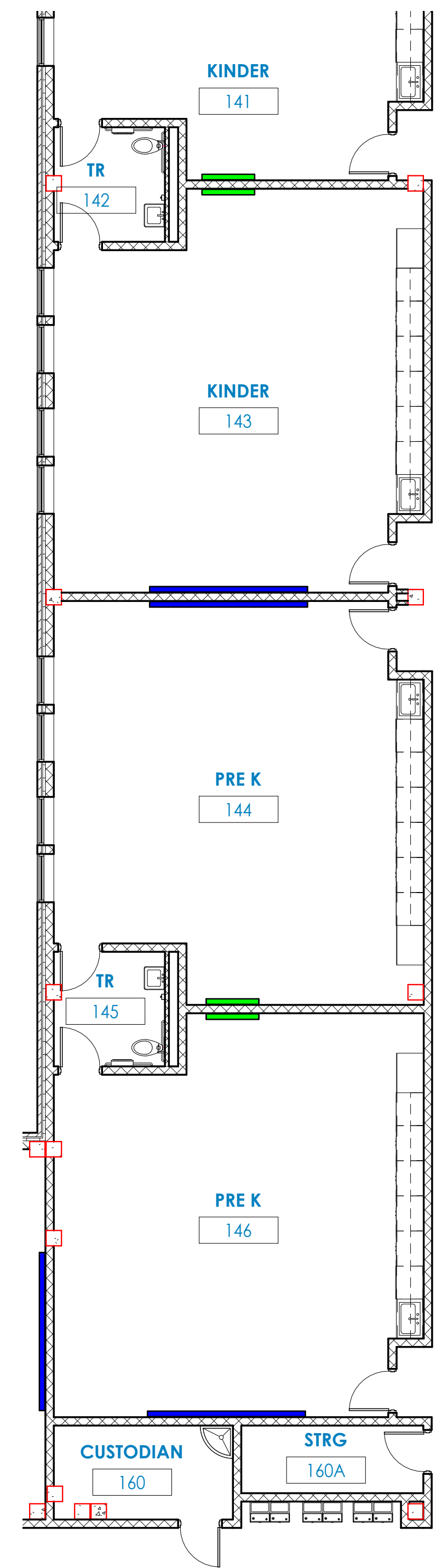
BARBER CLASSROOM & LAB ENLARGED PLANS

| No. | DATE | DESCRIPTION |
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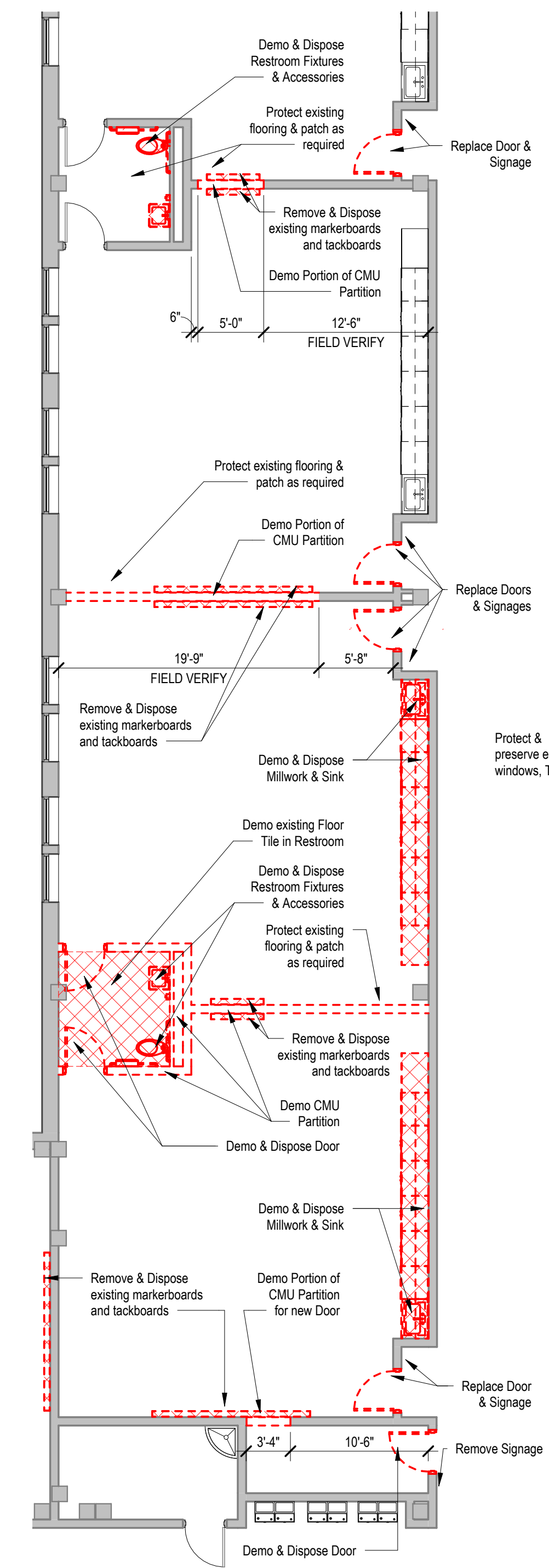
Date: 01/31/2024

Drawing No: **A-401**

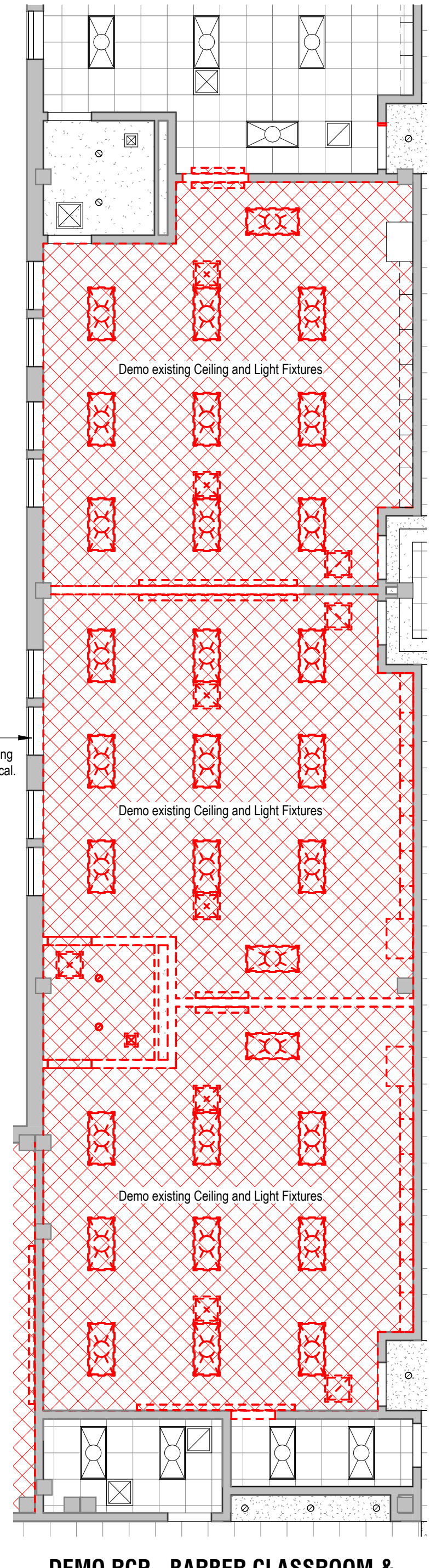
NOTE: GC TO REPAIR, PATCH, PAINT & CAULK ALL MASONRY AS REQUIRED AT ALL DOOR FRAMES BEING REMOVED, TYPICAL.



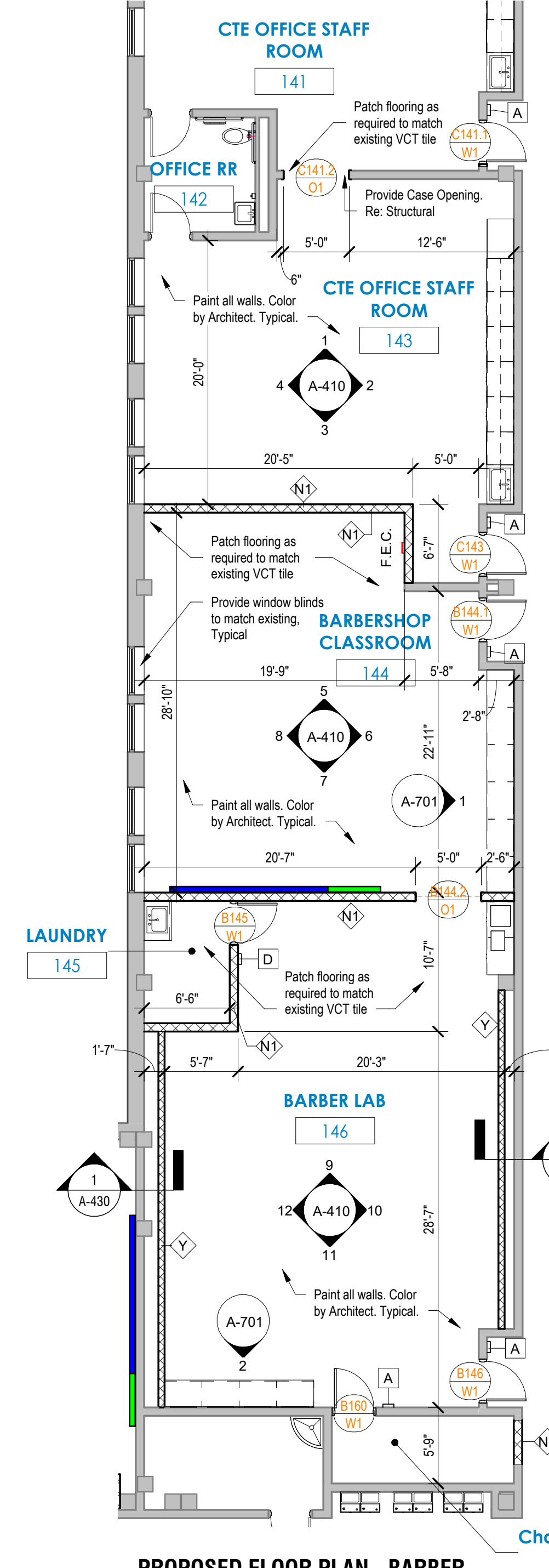
1 EXISTING FLOOR PLAN - BARBER CLASSROOM & LAB
1/8" = 1'-0"



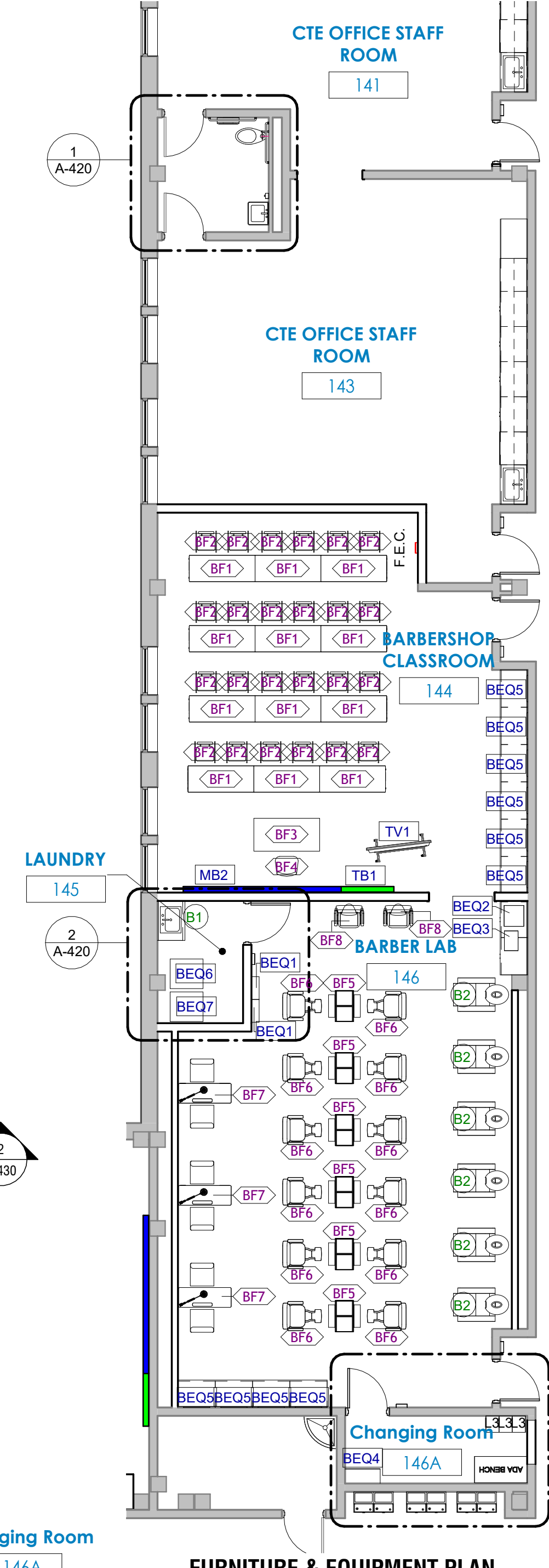
2 DEMO PLAN - BARBER CLASSROOM & LAB
1/8" = 1'-0"



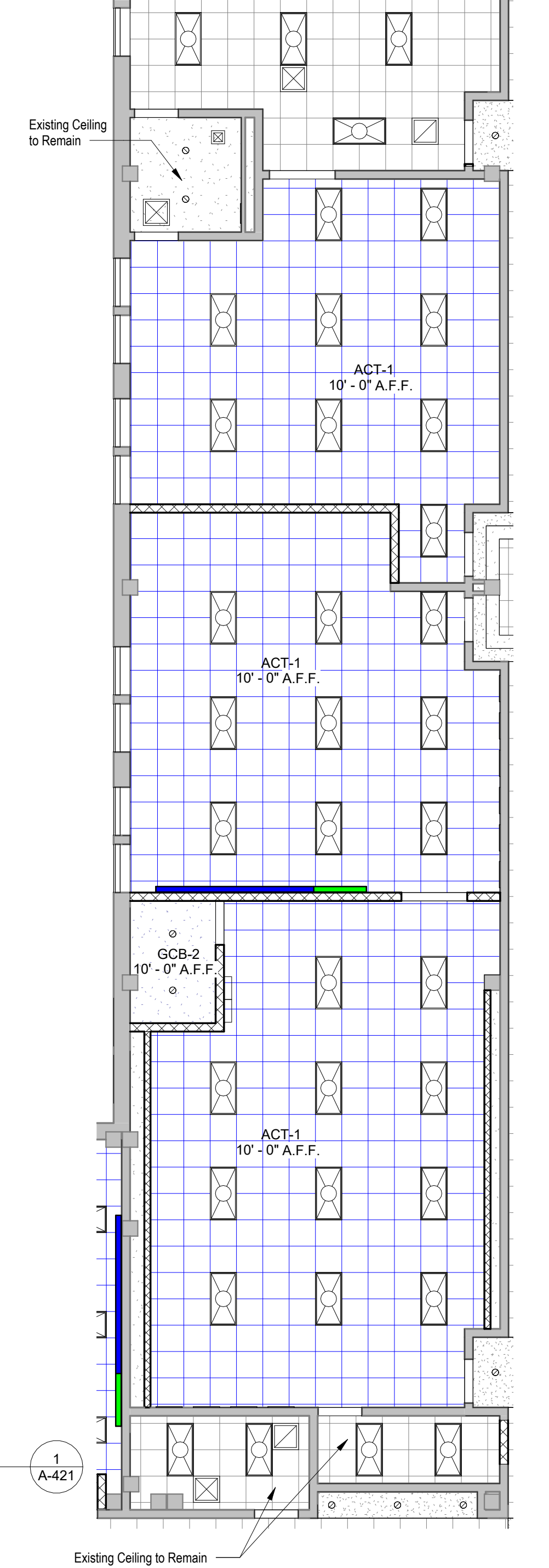
3 DEMO RCP - BARBER CLASSROOM & LAB
1/8" = 1'-0"



4 PROPOSED FLOOR PLAN - BARBER CLASSROOM & LAB
1/8" = 1'-0"



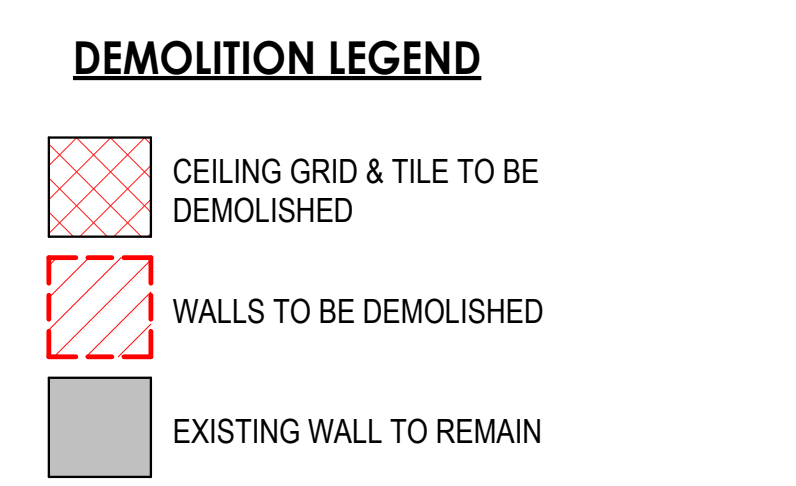
5 FURNITURE & EQUIPMENT PLAN - BARBER CLASSROOM & LAB
1/8" = 1'-0"



6 REFLECTED CEILING PLAN - BARBER CLASSROOM & LAB
1/8" = 1'-0"

- FLOOR PLAN GENERAL NOTES**
- MILLWORK IS INDICATED ON EQUIPMENT & SIGNAGE PLANS
 - CLASSROOM EQUIPMENT IS INDICATED ON EQUIPMENT & SIGNAGE PLANS
 - GRID LINES CORRESPOND WITH STRUCTURAL GRID LINES. REFER TO STRUCTURAL PLANS FOR FURTHER INFORMATION. IN CASE OF CONFLICT, CONTACT ARCHITECT PRIOR TO BIDDING.
 - UNLESS OTHERWISE INDICATED, PLAN DIMENSIONS ARE TO COLUMN GRID ON CENTERLINES, NOMINAL SURFACE OF MASONRY, FACE OF STUDS AND FACE OF CONCRETE WALLS.
 - REFER TO SYMBOL LEGEND ON SHEET G-001 FOR WINDOW, DOOR, WALL, EQUIPMENT TAGS
 - WHERE A DOOR IS LOCATED NEAR CORNER OF ROOM AND IS NOT LOCATED BY DIMENSION ON PLAN OR DETAILS, DIMENSION SHALL BE 3" FROM FACE OF WALL TO FACE OF ROUGH OPENING. DIMENSION SHALL BE 6" FROM FACE OF WALL TO EDGE OF ROUGH OPENING AT CONCRETE WALLS.
 - AT ALL INTERIOR PARTITIONS WHERE PARTITION DOES NOT EXTEND TO ROOF DECK OR FLOOR DECK ABOVE, AND NO INSULATION ABOVE CEILING IS CALLED FOR, BACK LOAD CEILING PANELS WITH LOW-DENSITY FACED FLAME SPREAD R11 BATTS ALONG ENTIRE LENGTH OF PARTITION, FOR A DISTANCE OF 4' FROM THE FACE OF THE PARTITION.
 - REPETITIVE FEATURES ARE NOT DRAWN IN THEIR ENTIRETY AND SHALL BE COMPLETELY PROVIDED AS IF DRAWN IN FULL.
 - FURNITURE N.I.C. - SHOWN FOR COORDINATION PURPOSES.
 - TYPICAL CLASSROOM PLAN EQUIPMENT, CASEWORK & MEP TO BE USED IN EVERY CLASSROOM, UNLESS NOTED OTHERWISE.
 - RE: STRUCTURAL FOR INFORMATION ON FOUNDATIONS, STRUCTURAL COLUMNS, STRUCTURAL FRAMING & METAL DECKS. SOME STRUCTURAL COLUMNS SHOWN FOR COORDINATION PURPOSES. REFER TO STRUCTURAL DRAWINGS FOR FURTHER INFORMATION.
 - DO NOT SCALE DRAWINGS IF DIMENSIONS ARE IN QUESTION, OBTAIN CLARIFICATION FROM THE ARCHITECT BEFORE CONTINUING THE WORK.
 - NOTIFY ARCHITECT OF ANY VARIATION REQUIRED IN THE DIMENSIONS NOTES FOR INSTALLATIONS OF EQUIPMENT BEFORE CONTINUING THE WORK.
 - VERIFY DIMENSIONS BEFORE ORDERING MATERIALS AND PROCEEDING WITH THE WORK.
 - PROVIDE BLOCKING AS REQUIRED FOR PROPER SUPPORT OF WALL AND CEILING MOUNTED EQUIPMENT.
 - REFER TO SHEET A-602 FOR ROOM SIGNAGE LEGEND, INTERIOR SIGNAGE MOUNTING AND SIGNAGE NOTES.
 - REFER TO SHEET A-401 FOR TOILET ROOM ACCESSORIES & PLUMBING FIXTURE MOUNTING HEIGHT SCHEDULE.
 - REFER TO SPECIFICATIONS SECTION 099000 PAINTING & COATING.
 - ALL CMU EXPOSED CORNERS TO BE BULLNOSE, TYP.

NOTE: GC TO PROTECT, PRESERVE AND TO COORDINATE WITH OWNER REMOVAL OF I.T. EQUIPMENT FROM CEILING AS REQUIRED



NOTE: GC TO VERIFY WITH OWNER PRIOR PURCHASING, FURNISHING AND INSTALLING ANY EQUIPMENT APPLIANCES MODELS, TYPICAL

BARBER LAB PLUMBING FIXTURE SCHEDULE

| Type Mark | Description | ADA | Specification | Comments |
|-----------|---------------|----------|---|----------|
| B1 | Sink | | Laundry Sink | Re: MEP |
| B2 | Hair Backwash | <varies> | Klyne Reclining Shampoo Backwash Unit with UPC Certified Faucet | O.P.O.I |

BARBER CLASSROOM & LAB FURNITURE SCHEDULE

| Type Mark | Description | Count | Responsibility |
|-----------|---------------------------|-------|----------------|
| BF1 | CCI Active Learning Table | 12 | O.P.O.I. |
| BF2 | Student Chairs | 24 | O.P.O.I. |
| BF3 | Teacher's Desk | 1 | O.P.O.I. |
| BF4 | Teacher's Chair | 1 | O.P.O.I. |
| BF5 | Styling Booth | 6 | O.P.O.I. |
| BF6 | Salon Chair | 12 | O.P.O.I. |
| BF7 | Manicure Station | 3 | O.P.O.I. |
| BF8 | Salon Dryer Chair | 2 | O.P.O.I. |

BARBER CLASSROOM & LAB SPECIALTY EQUIPMENT SCHEDULE

| Type Mark | Description | Count | Responsibility |
|-----------|---------------------------------------|-------|----------------|
| BEQ1 | Wall Mounted Chromebook Charging Cart | 2 | C.P.C.I. |
| BEQ2 | UV Sanitizer Light | 1 | O.P.O.I. |
| BEQ3 | Towel Steamer | 1 | O.P.O.I. |
| BEQ4 | Guardian 9 Wig Dryer Commercial Model | 1 | O.P.O.I. |
| BEQ5 | Mirror: 18" Wide x 36" High (Adult) | 10 | C.P.C.I. |

APPLIANCES SCHEDULE

| Type Mark | Description | Count | Responsibility |
|-----------|--|-------|----------------|
| BEQ6 | 7.3 cu.ft. Rear Control Top Load Dryer with TurboSteam - LG Laundry - DLEX7900BE/DLX7901BE | 1 | C.P.C.I. |
| BEQ7 | 5.5 cu.ft. Top Load Washer with TurboWash3D - LG Laundry - WT7900HBA | 1 | C.P.C.I. |

EQUIPMENT & SIGNAGE PLANS GENERAL NOTES

- REFER TO MILLWORK ELEVATIONS & DETAILS SHEETS FOR FURTHER INFORMATION.
- CLOSET SHELVES (SH) & STANDARD MILLWORK STORAGE UNITS (MMW) ARE DESCRIBED ON MILLWORK ELEVATIONS & DETAILS SHEET A-701
- REFER TO EQUIPMENT SCHEDULES SHEET FOR FURTHER INFORMATION ON CLASSROOM EQUIPMENT & INTERIOR SIGNAGE.
- TV'S & BRACKETS TO BE FURNISHED AND INSTALLED BY OWNER UNLESS NOTED OTHERWISE.
- FURNITURE N.I.C., SHOWN FOR COORDINATION PURPOSES ONLY.

GENERAL EQUIPMENT NOTES

- OPOI = OWNER PROVIDED/OWNER INSTALLED
- CPCI = CONTRACTOR PROVIDED/CONTRACTOR INSTALLED
- OPCI = OWNER PROVIDED/CONTRACTOR INSTALLED
- G.C. TO INCLUDE ALL LABOR COSTS INCLUDING LIFT RENTAL IF NECESSARY.
- WHEN BASIS OF DESIGN INDICATED ON SCHEDULE; "OR EQUAL" PRODUCTS WILL BE ACCEPTED BUT ARE TO BE APPROVED BY ARCHITECT DURING SUBMITTAL PROCESS. REFER TO SPECIFICATIONS SECTION TITLED "SUBMITTAL PROCEDURES" FOR FURTHER INFORMATION.

REFLECTED CEILING PLAN GENERAL NOTES

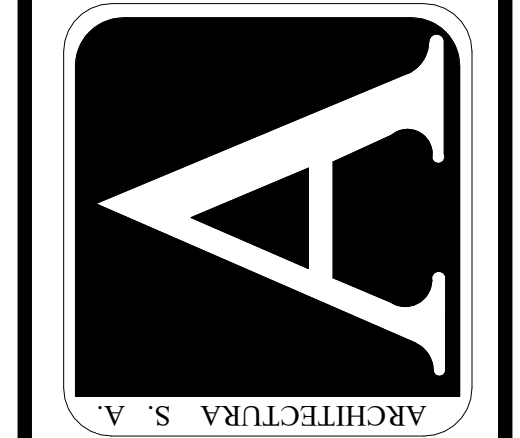
- REFER TO ELECTRICAL DRAWINGS FOR LIGHTING SCHEDULES & LIGHTING LOCATIONS.
- REFER TO M.E.P. DRAWINGS FOR DESIGN OF DUCT SIZES, CIRCUITING, ETC., REFLECTED CEILING PLANS TO GOVERN LOCATION OF ITEMS INSTALLED IN CEILINGS. NOTIFY ARCHITECT IN CASE OF CONFLICTS.
- INSTALL REGISTERS & LIGHTING FIXTURES WITHIN CEILING GRIDS. INSTALL SPRINKLER HEADS, DOWNLIGHT FIXTURES OR OTHER CEILING ELEMENTS IN THE GEOMETRIC CENTER OF CEILING TILES OR CENTER OF CORRIDOR, UNLESS NOTED OTHERWISE.
- CENTER ALL EXIT SIGNS, SMOKE DETECTORS, ETC. ON CENTER OF CORRIDOR AND CENTERLINE OF LIGHT FIXTURES UNLESS NOTED OTHERWISE.
- REFER TO MEP DRAWINGS FOR EXIT LIGHTS, SWITCHES, FIRE ALARM PULL, A.D.A. STROBE LOCATIONS, ETC. GC TO COORDINATE WITH OWNER & ARCHITECT FOR FINAL LOCATIONS OF ALL MEP, LIFE SAFETY, I.T.A.V. & SECURITY DEVICES.
- GEN. CONTRACTOR SHALL PROVIDE THE NUMBER OF SPRINKLER HEADS & LOCATIONS AS REQUIRED BY GOVERNING CODES & AUTHORITIES AT NO ADDITIONAL COST TO THE OWNER. COORDINATE WITH ARCHITECT FOR FINAL LOCATIONS. SPRINKLER HEADS TO BE LOCATED AT CENTER OF CEILING TILES.
- SUBMIT SPRINKLER HEAD & RISER ROOM LAYOUT SHOP DRAWINGS.
- NO ACCESS PANELS ARE TO BE LOCATED IN GYPSUM BOARD CEILING OF LOBBY, VESTIBULE, PUBLIC CORRIDOR.
- REFER TO I.T. DRAWINGS FOR ADDITIONAL A.V. EQUIPMENT INFORMATION AND LOCATIONS. PROVIDE BLOCKING AS REQUIRED FOR MOUNTING EQUIPMENT. PROVIDE MESH CABLE TRAYS AT ALL CABLE ROUTES.
- ALL EXTERIOR WALLS SHALL EXTEND TO DECK AND BE SEALED, INCLUDING WALLS ADJACENT TO SOFFITS AND ABOVE DOORS AND WINDOWS.
- EXTEND PERIMETER WALLS AT MECHANICAL ROOMS, ELECTRICAL ROOMS MDF ROOM, ELEVATOR SHAFTS & STAIRWELLS UP TO STRUCTURAL DECK.

CLASSROOM CEILING SCHEDULE

| Type Mark | Description |
|-----------|--|
| ACT-1 | 2x2 Acoustical Ceiling Tile |
| GCB-1 | 5/8" Gypsum Board on Metal Stud Framing |
| GCB-2 | 5/8" Moisture-Resistant Type X Gypsum Board on Metal Stud Framing; re: Specs |

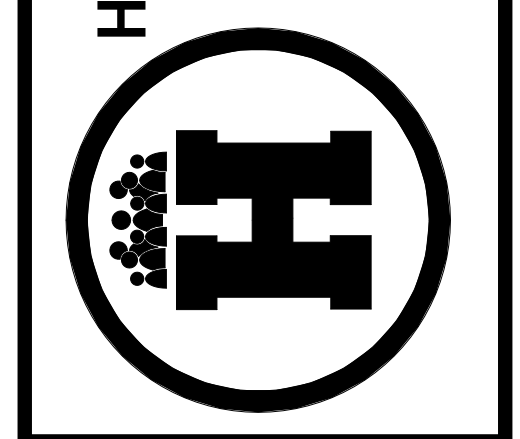


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ARCHITECTURA S.A., INC.
ARCHITECTURE INTERIOR DESIGN PLANNING
17038 REDLAND RD., SUITE 101, SAN ANTONIO, TEXAS 78247
t. 210.384.8200 f. 210.319.3555
architecturasa@yahoo.com

HISD CAREER TECHNOLOGY EDUCATION (CTE)
HARLANDALE INDEPENDENT SCHOOL DISTRICT
519 W HARDING BLVD.
SAN ANTONIO, TX 78221



Drawn By: VMC
Checked By: SAV
Job Number: 23-09

DENTAL ASSIST. CLASSROOM & LAB ENLARGED PLAN

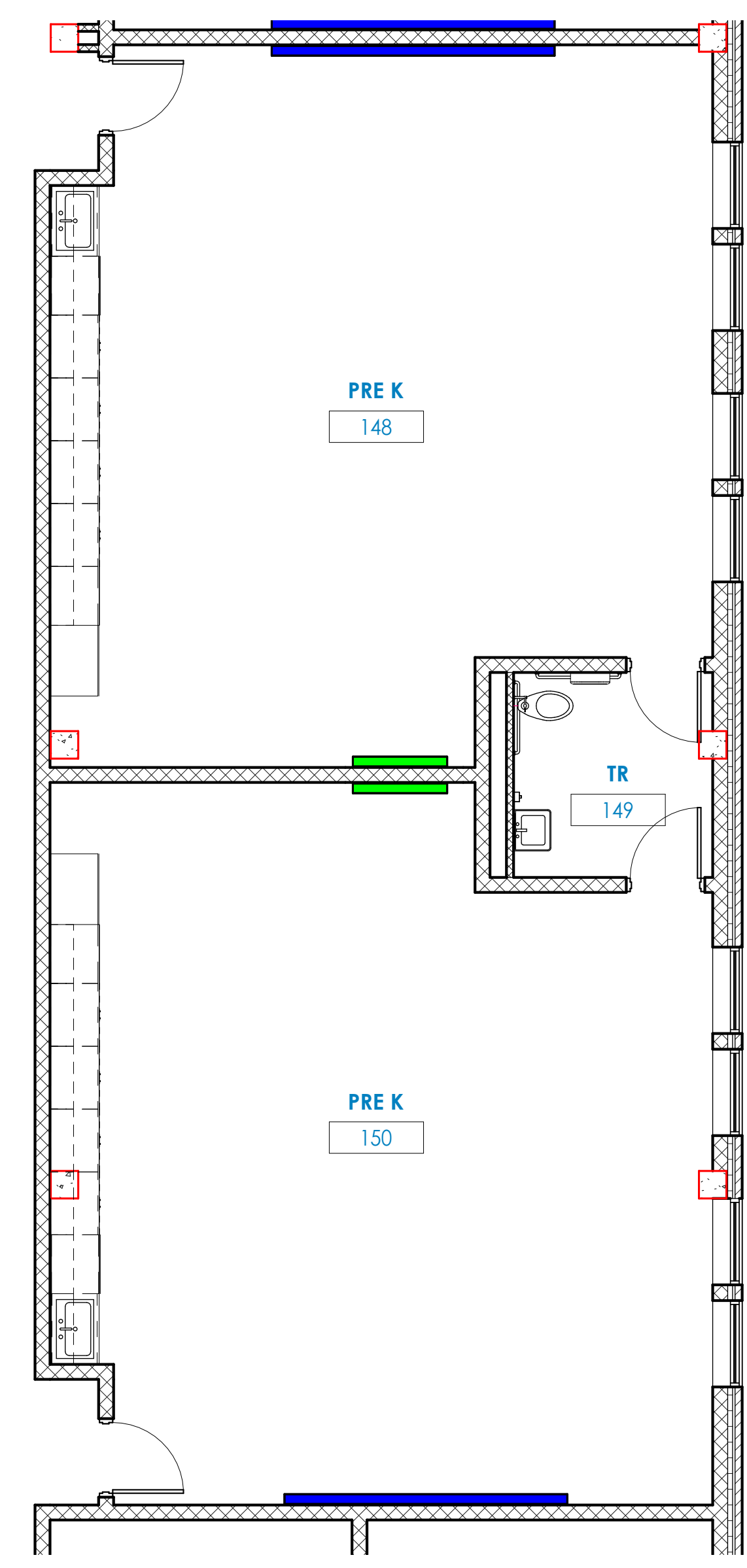
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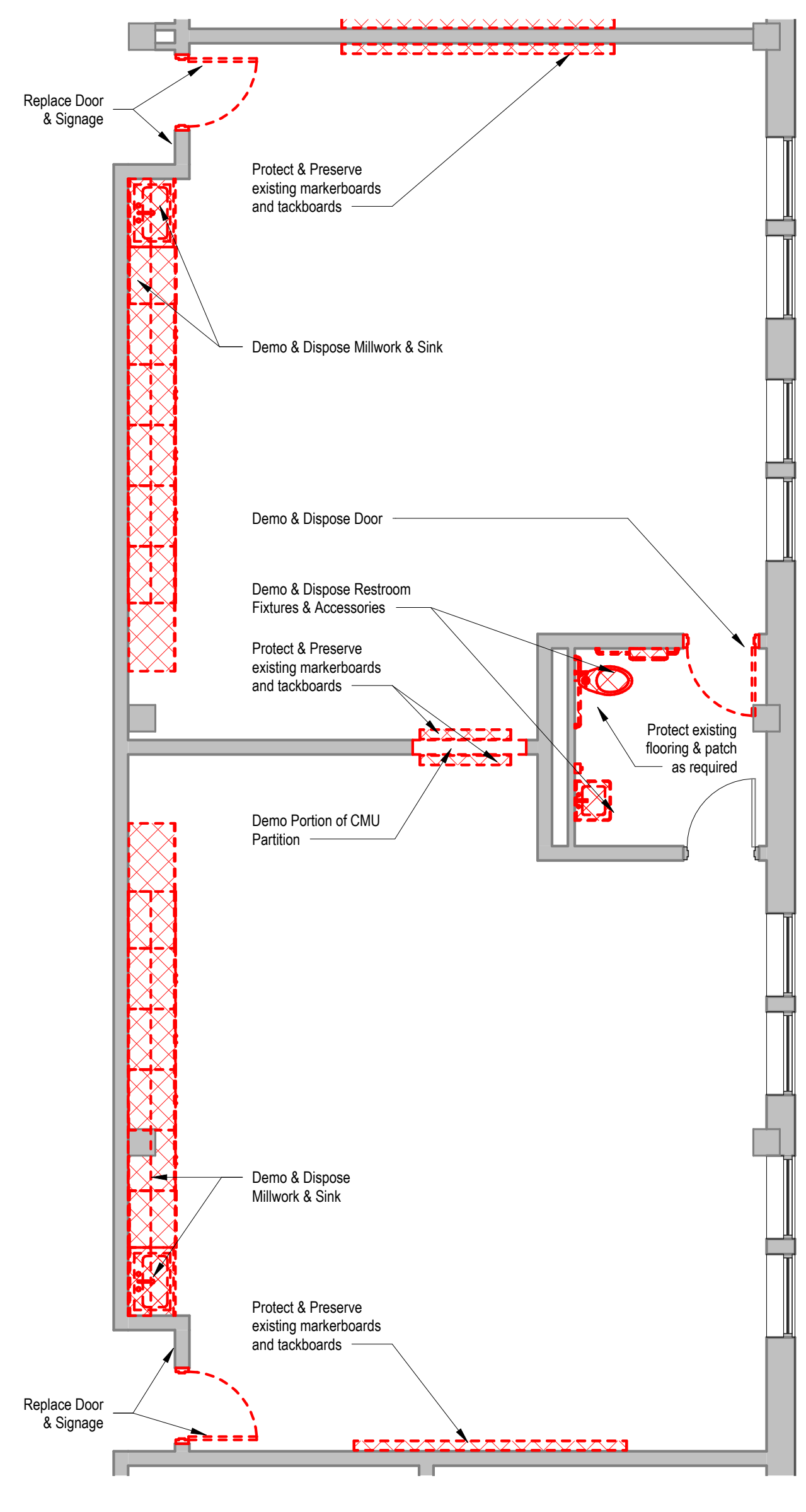
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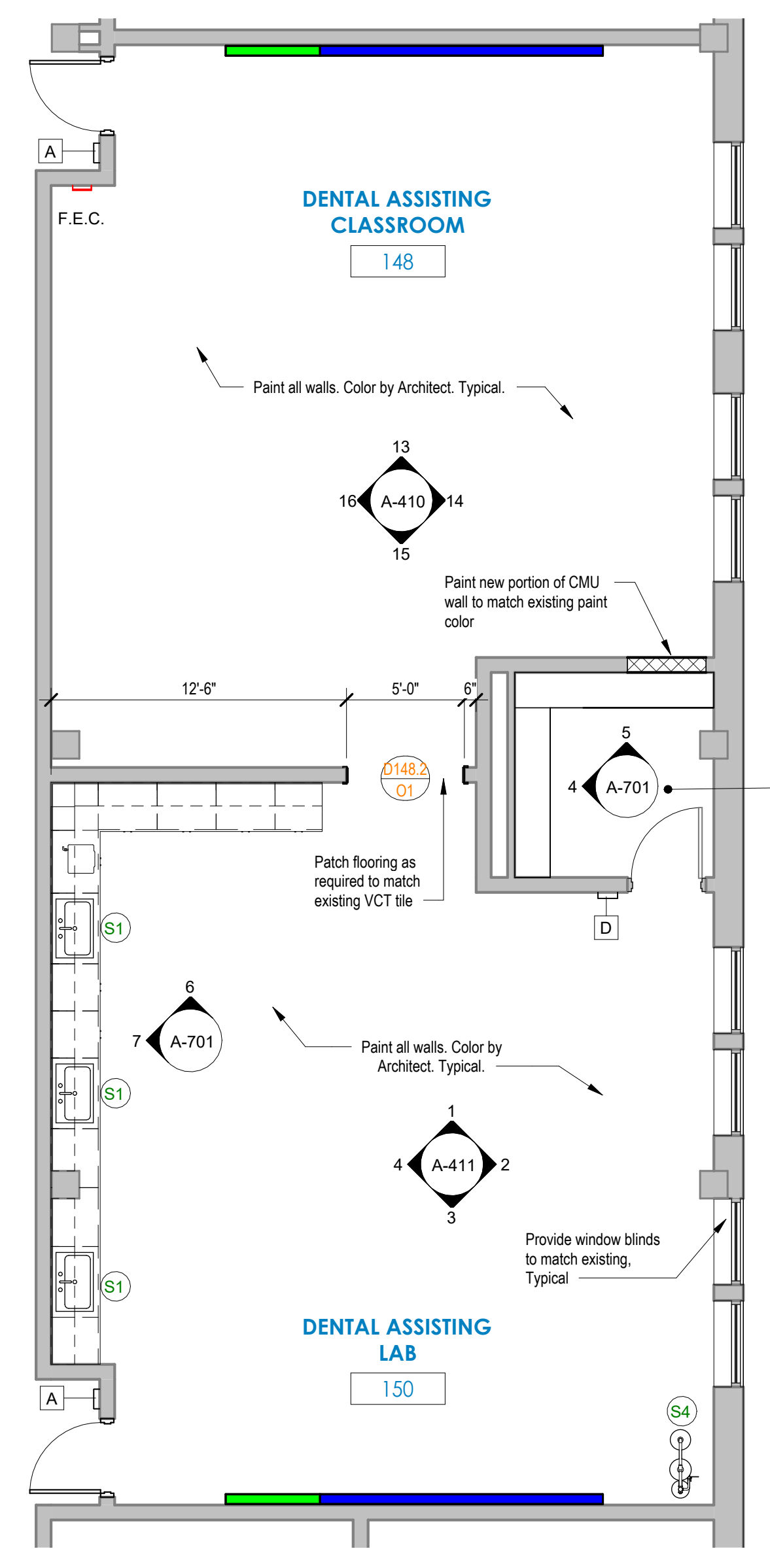
NOTE: GC TO REPAIR, PATCH, PAINT & CAULK ALL MASONRY AS REQUIRED AT ALL DOOR FRAMES BEING REMOVED, TYPICAL.



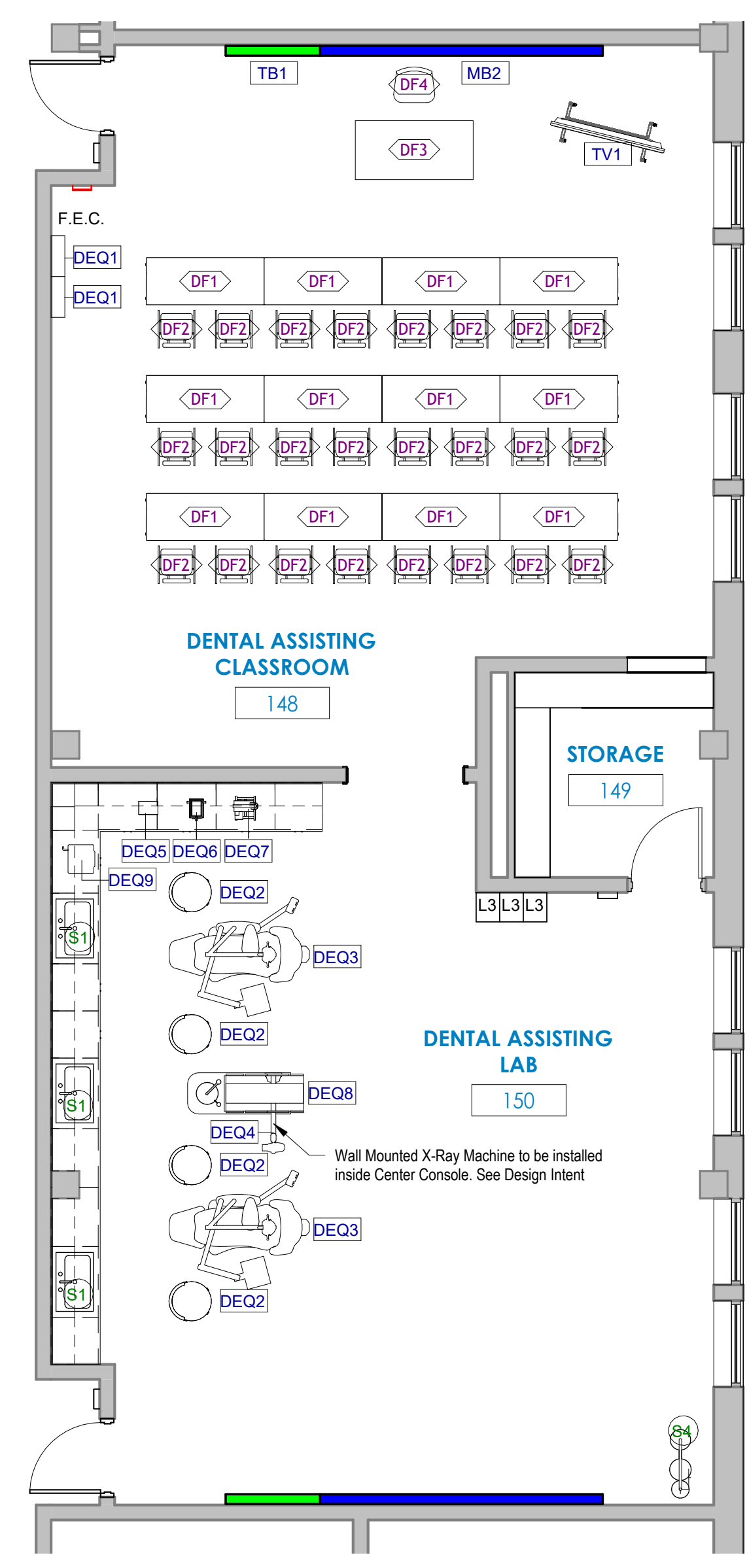
1 EXISTING FLOOR PLAN - DENTAL ASSISTING CLASSROOM & LAB
3/16" = 1'-0"



2 DEMO PLAN - DENTAL ASSISTING CLASSROOM & LAB
3/16" = 1'-0"



3 PROPOSED FLOOR PLAN - DENTAL ASSISTING CLASSROOM & LAB
3/16" = 1'-0"



4 FURNITURE & EQUIPMENT PLAN - DENTAL ASSISTING CLASSROOM & LAB
3/16" = 1'-0"

FLOOR PLAN GENERAL NOTES

- A. MILLWORK IS INDICATED ON EQUIPMENT & SIGNAGE PLANS
- B. CLASSROOM EQUIPMENT IS INDICATED ON EQUIPMENT & SIGNAGE PLANS
- C. GRID LINES CORRESPOND WITH STRUCTURAL GRID LINES. REFER TO STRUCTURAL PLANS FOR FURTHER INFORMATION. IN CASE OF CONFLICT, CONTACT ARCHITECT PRIOR TO BIDDING.
- D. UNLESS OTHERWISE INDICATED, PLAN DIMENSIONS ARE TO COLUMN GRID ON CENTERLINES, NOMINAL SURFACE OF MASONRY, FACE OF STUDS AND FACE OF CONCRETE WALLS.
- E. REFER TO SYMBOL LEGEND ON SHEET G-001 FOR WINDOW, DOOR, WALL, EQUIPMENT TAGS
- F. WHERE A DOOR IS LOCATED NEAR CORNER OF ROOM AND IS NOT LOCATED BY DIMENSION ON PLAN OR DETAILS, DIMENSION SHALL BE 9" FROM FACE OF WALL TO FACE OF ROUGH OPENING. DIMENSION SHALL BE 6" FROM FACE OF WALL TO EDGE OF ROUGH OPENING AT CONCRETE WALLS.
- G. AT ALL INTERIOR PARTITIONS WHERE PARTITION DOES NOT EXTEND TO ROOF DECK OR FLOOR DECK ABOVE, AND NO INSULATION ABOVE CEILING IS CALLED FOR, BACK LOAD CEILING PANELS WITH LOW-DENSITY FACED FLAME SPREAD R11 BATTS ALONG ENTIRE LENGTH OF PARTITION, FOR A DISTANCE OF 4" FROM THE FACE OF THE PARTITION.
- H. REPEITIVE FEATURES ARE NOT DRAWN IN THEIR ENTIRETY AND SHALL BE COMPLETELY PROVIDED AS IF DRAWN IN FULL.
- I. FURNITURE N.I.C., SHOWN FOR COORDINATION PURPOSES.
- J. TYPICAL CLASSROOM PLAN EQUIPMENT, CASEWORK & MEP TO BE USED IN EVERY CLASSROOM, UNLESS NOTED OTHERWISE.
- K. RE: STRUCTURAL FOR INFORMATION ON FOUNDATIONS, STRUCTURAL COLUMNS, STRUCTURAL FRAMING & METAL DECKS. SOME STRUCTURAL COLUMNS SHOWN FOR COORDINATION PURPOSES. REFER TO STRUCTURAL DRAWINGS FOR FURTHER INFORMATION.
- L. DO NOT SCALE DRAWINGS IF DIMENSIONS ARE IN QUESTION, OBTAIN CLARIFICATION FROM THE ARCHITECT BEFORE CONTINUING THE WORK.
- M. NOTIFY ARCHITECT OF ANY VARIATION REQUIRED IN THE DIMENSIONS NOTES FOR INSTALLATIONS OF EQUIPMENT BEFORE CONTINUING THE WORK.
- N. VERIFY DIMENSIONS BEFORE ORDERING MATERIALS AND PROCEEDING WITH THE WORK.
- O. PROVIDE BLOCKING AS REQUIRED FOR PROPER SUPPORT OF WALL AND CEILING MOUNTED EQUIPMENT.
- P. REFER TO SHEET A-602 FOR ROOM SIGNAGE LEGEND, INTERIOR SIGNAGE MOUNTING AND SIGNAGE NOTES.
- Q. REFER TO SHEET A-401 FOR TOILET ROOM ACCESSORIES & PLUMBING FIXTURE MOUNTING HEIGHT SCHEDULE.
- R. REFER TO SPECIFICATIONS SECTION 099000 PAINTING & COATING.
- S. ALL CMU EXPOSED CORNERS TO BE BULLNOSE, TYP.

DEMOLITION LEGEND

- CEILING GRID & TILE TO BE DEMOLISHED
- WALLS TO BE DEMOLISHED
- EXISTING WALL TO REMAIN

EQUIPMENT & SIGNAGE PLANS GENERAL NOTES

- A. REFER TO MILLWORK ELEVATIONS & DETAILS SHEETS FOR FURTHER INFORMATION.
- B. CLOSET SHELVES (SHR) & STANDARD MILLWORK STORAGE UNITS (MWH) ARE DESCRIBED ON MILLWORK ELEVATIONS & DETAILS SHEET A-701
- C. REFER TO EQUIPMENT SCHEDULES SHEET FOR FURTHER INFORMATION ON CLASSROOM EQUIPMENT & INTERIOR SIGNAGE.
- D. TV'S & BRACKETS TO BE FURNISHED AND INSTALLED BY OWNER UNLESS NOTED OTHERWISE.
- E. FURNITURE N.I.C., SHOWN FOR COORDINATION PURPOSES ONLY.

LAB PLUMBING FIXTURE SCHEDULE

| Type Mark | Description | ADA | Specification | Comments |
|-----------|------------------|-----|-----------------------------|----------|
| S1 | Sink | Yes | refer to MEP Specifications | C.P.C.I. |
| S4 | Eye Wash Station | Yes | refer to MEP Specifications | C.P.C.I. |

DENTAL ASSISTING CLASSROOM & LAB FURNITURE SCHEDULE

| Type Mark | Description | Count | Responsibility |
|-----------|---|-------|----------------|
| DF1 | CCI Active Learning Table | 12 | O.P.O.I. |
| DF2 | Student Chairs (18 Inch A+ Seat Height) | 24 | O.P.O.I. |
| DF3 | Teacher's Desk | 1 | O.P.O.I. |
| DF4 | Teacher's Chair | 1 | O.P.O.I. |

LOCKER SCHEDULE

| Locker Type | Mark | # of Tiers | Width | Depth | Height |
|-------------|------|------------|-------|-------|--------|
| | L3 | 3 | 12" | 15" | 60" |

DENTAL ASSISTING CLASSROOM & LAB SPECIALTY EQUIPMENT SCHEDULE

| Type Mark | Description | Count | Manufacturer | Model | Responsibility |
|-----------|--|-------|----------------------------------|------------------------------------|----------------|
| DEQ1 | Wall Mounted Chromebook Charging Cart | 2 | TBD | TBD | C.P.C.I. |
| DEQ2 | Dental assistant's operating stool | 4 | TBD | TBD | O.P.O.I. |
| DEQ3 | Ultra Trim Chair w/ Asepsis 21 Console Mounted Delivery System | 2 | Midmark | 153758-002 | O.P.O.I. |
| DEQ4 | Wall Mounted X-Ray | 1 | Cotix | 70 PLUS-USV-WM | O.P.O.I. |
| DEQ5 | Dental molding vibrator. | 1 | Buffalo Dental Manufacturing Co. | 84350 | O.P.O.I. |
| DEQ6 | Tray Vac Vacuum Former. | 1 | Buffalo Dental Manufacturing Co. | 80165 | O.P.O.I. |
| DEQ7 | Dental Lab Model Trimmer | 1 | Buffalo Dental Manufacturing Co. | 61792 | O.P.O.I. |
| DEQ8 | Central Station with X Ray Cabinet | 1 | TBD | TBD | O.P.O.I. |
| DEQ9 | Ultrasonic Cleaner | 1 | BioSonic Twin FingerGuard | 8884406 Coltene/Waledent - UC311 | O.P.O.I. |

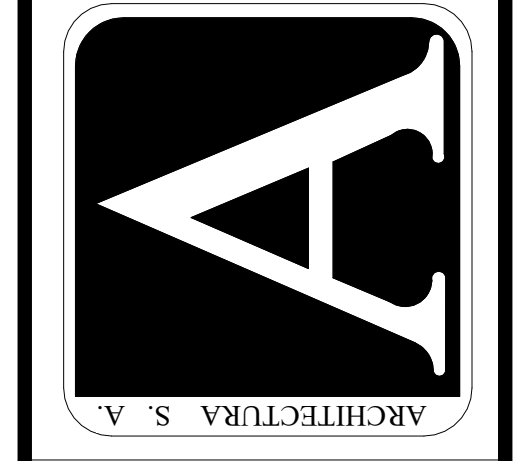
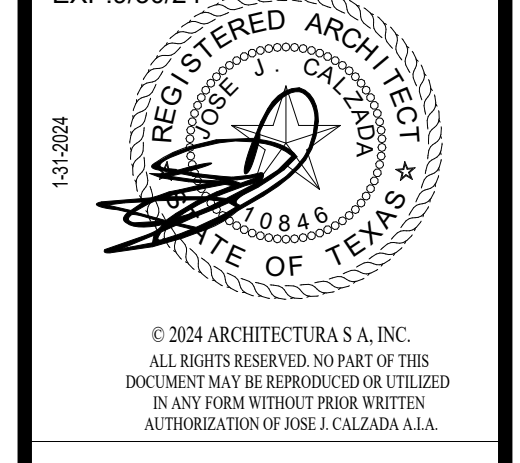
CENTER CONSOLE DESIGN INTENT



GENERAL EQUIPMENT NOTES

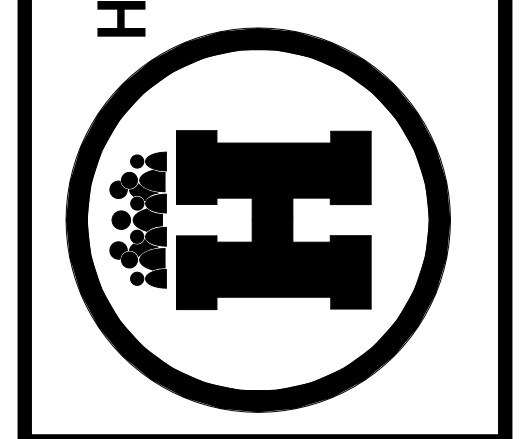
1. OPOI = OWNER PROVIDED/OWNER INSTALLED
2. PCPI = CONTRACTOR PROVIDED/CONTRACTOR INSTALLED
3. G.C. = OWNER PROVIDED/CONTRACTOR INSTALLED
4. REFER TO INCLUDE ALL LABOR COSTS INCLUDING LIFT RENTAL IF NECESSARY.
5. WHEN BASIS OF DESIGN INDICATED ON SCHEDULE, "OR EQUAL" PRODUCTS WILL BE ACCEPTED BUT ARE TO BE APPROVED BY ARCHITECT DURING SUBMITTAL PROCESS. REFER TO SPECIFICATIONS SECTION TITLED "SUBMITTAL PROCEDURES" FOR FURTHER INFORMATION.





ARCHITECTURA S.A., INC.
ARCHITECTURE INTERIOR DESIGN PLANNING
17038 REDLAND RD., SUITE 101, SAN ANTONIO, TEXAS 78247
t. 210.384.8200 f. 210.319.3555
architecturasai@yahoo.com

HISD CAREER TECHNOLOGY EDUCATION (CTE)
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Drawn By: VMC
Checked By: SAV
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SOC. & NET. CLASSROOMS ENLARGED PLANS

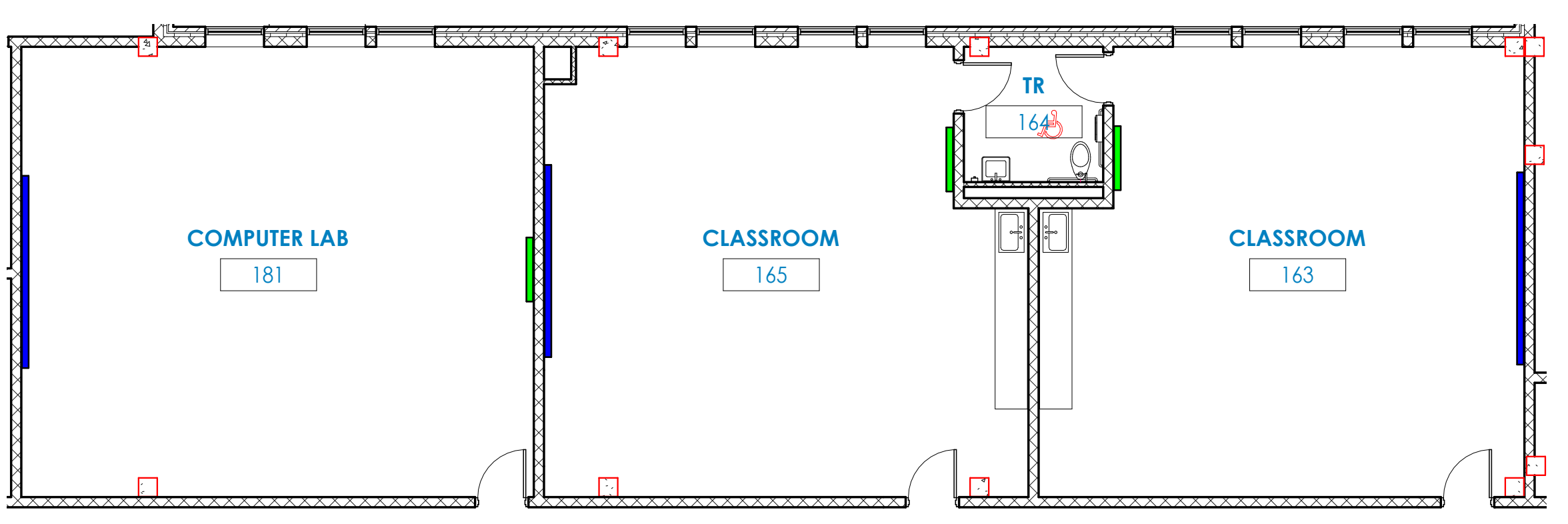
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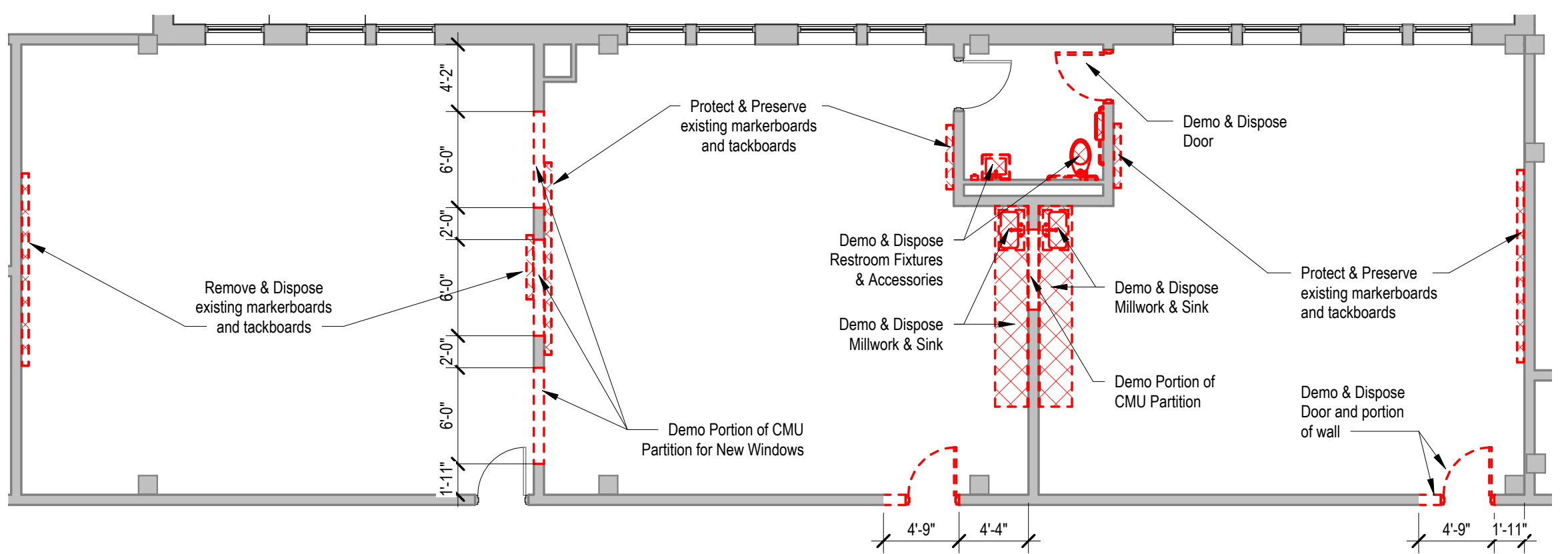
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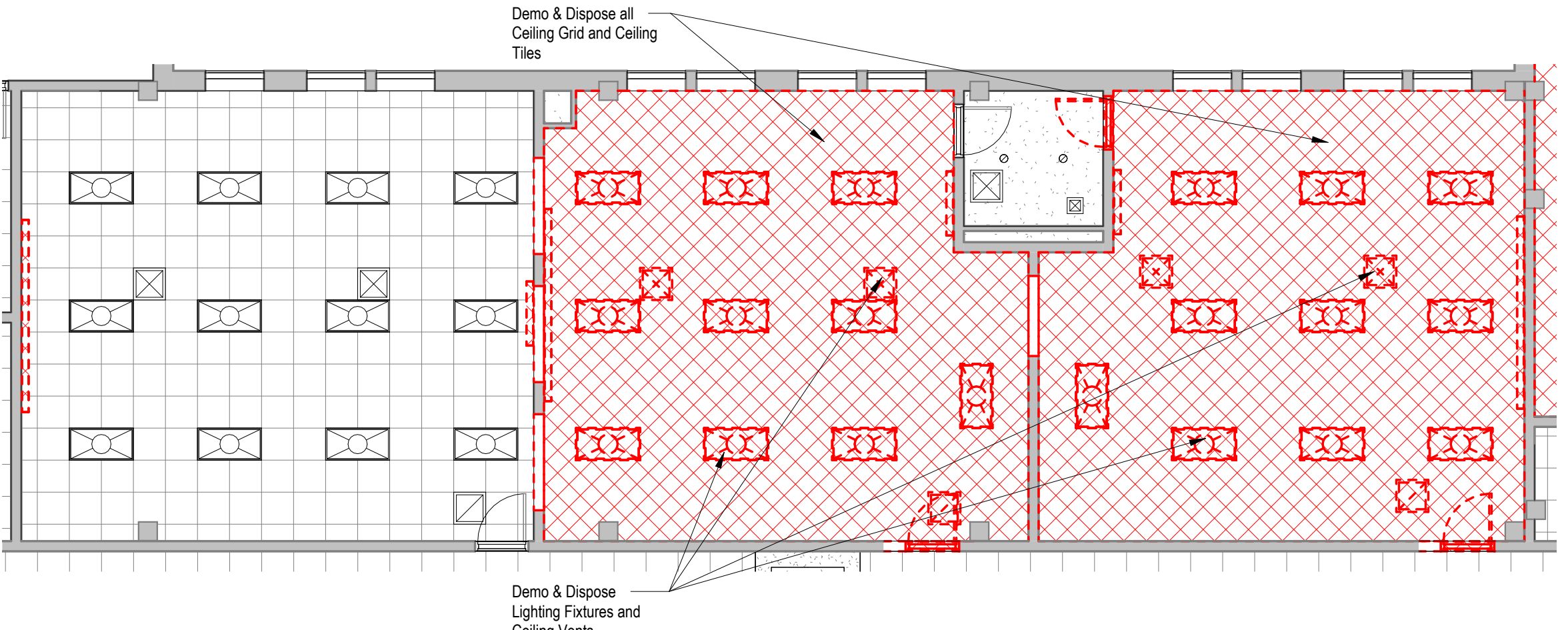
NOTE: GC TO REPAIR, PATCH, PAINT & CAULK ALL MASONRY AS REQUIRED AT ALL DOOR FRAMES BEING REMOVED, TYPICAL.



1 EXISTING FLOOR PLAN - SOC & NETWORKING CLASSROOMS
1/8" = 1'-0"



2 DEMO PLAN - SOC & NETWORKING CLASSROOMS
1/8" = 1'-0"



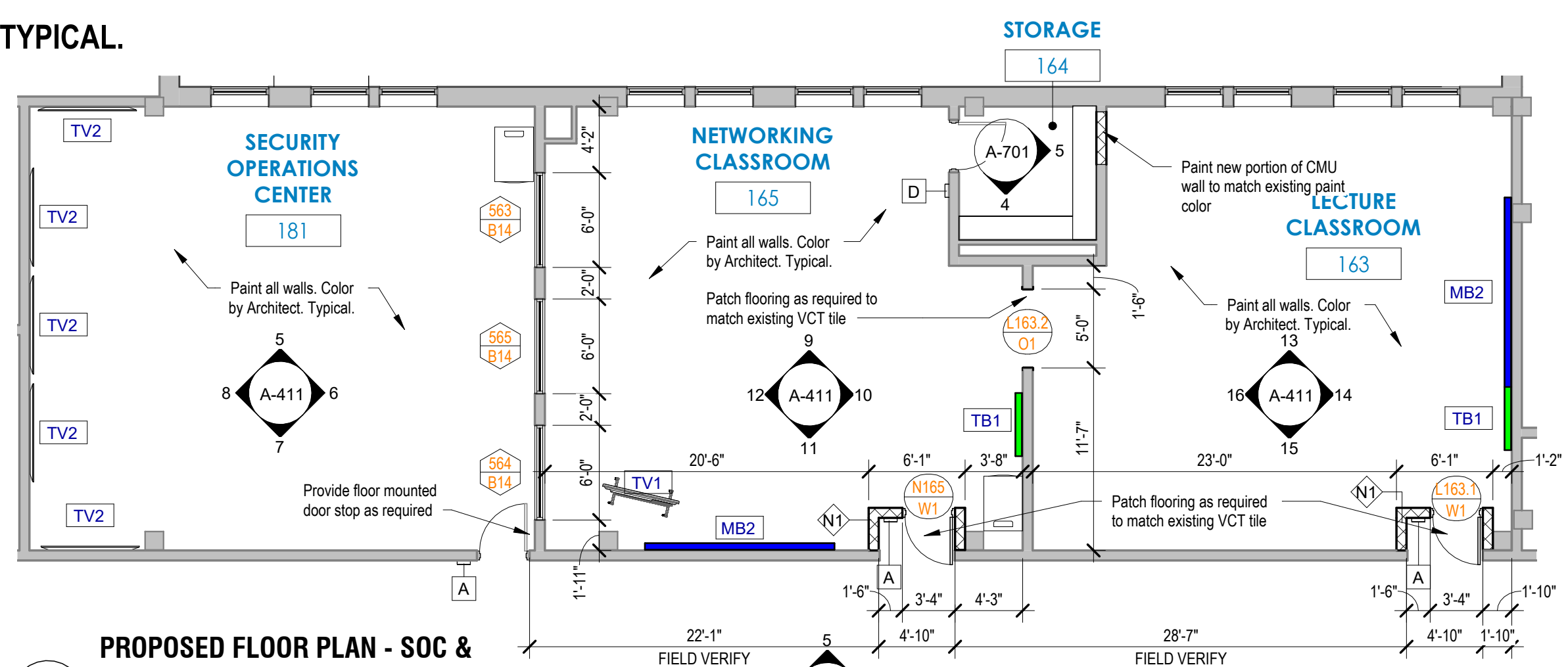
5 DEMO RCP - SOC & NETWORKING CLASSROOMS
1/8" = 1'-0"

REFLECTED CEILING PLAN GENERAL NOTES

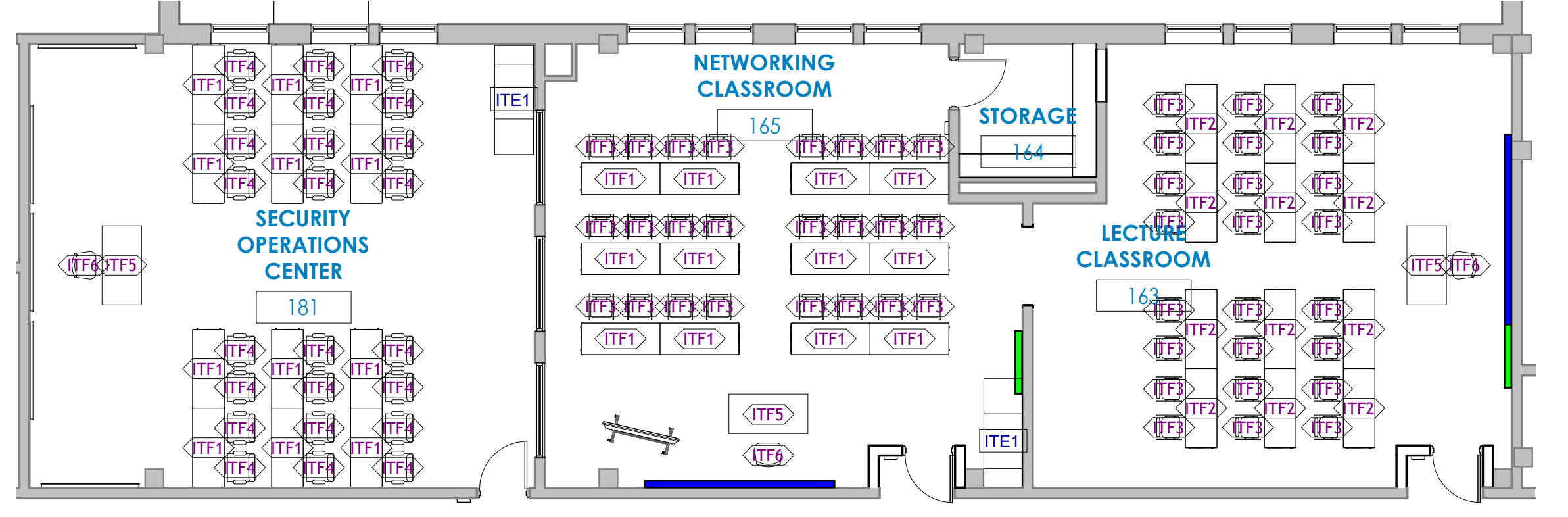
- REFER TO ELECTRICAL DRAWINGS FOR LIGHTING SCHEDULES & LIGHTING LOCATIONS.
- REFER TO M.E.P. DRAWINGS FOR DESIGN OF DUCT SIZES, CIRCUITING, ETC., REFLECTED CEILING PLANS TO GOVERN LOCATION OF ITEMS INSTALLED IN CEILINGS. NOTIFY ARCHITECT IN CASE OF CONFLICTS.
- INSTALL REGISTERS & LIGHTING FIXTURES WITHIN CEILING GRIDS. INSTALL SPRINKLER HEADS, DOWNLIGHT FIXTURES OR OTHER CEILING ELEMENTS IN THE GEOMETRIC CENTER OF CEILING TILES OR CENTER OF CORRIDOR, UNLESS NOTED OTHERWISE.
- CENTER ALL EXIT SIGNS, SMOKE DETECTORS, ETC. ON CENTER OF CORRIDOR AND CENTERLINE OF LIGHT FIXTURES UNLESS NOTED OTHERWISE.
- REFER TO MEP DRAWINGS FOR EXIT LIGHTS, SWITCHES, FIRE ALARM PULL, A.D.A. STROBE LOCATIONS, ETC. GC TO COORDINATE WITH OWNER & ARCHITECT FOR FINAL LOCATIONS OF ALL MEP, LIFE SAFETY, I.T./A.V. & SECURITY DEVICES.
- GEN. CONTRACTOR SHALL PROVIDE THE NUMBER OF SPRINKLER HEADS & LOCATIONS AS REQUIRED BY GOVERNING CODES & AUTHORITIES AT NO ADDITIONAL COST TO THE OWNER, COORDINATE WITH ARCHITECT FOR FINAL LOCATIONS. SPRINKLER HEADS TO BE LOCATED AT CENTER OF CEILING TILES.
- SUBMIT SPRINKLER HEAD & RISER ROOM LAYOUT SHOP DRAWINGS.
- NO ACCESS PANELS ARE TO BE LOCATED IN GYPSUM BOARD CEILING OF LOBBY, VESTIBULE, PUBLIC CORRIDOR.
- REFER TO I.T. DRAWINGS FOR ADDITIONAL A.V. EQUIPMENT INFORMATION AND LOCATIONS. PROVIDE BLOCKING AS REQUIRED FOR MOUNTING EQUIPMENT. PROVIDE MESH CABLE TRAYS AT ALL CABLE ROUTES.
- ALL EXTERIOR WALLS SHALL EXTEND TO DECK AND BE SEALED, INCLUDING WALLS ADJACENT TO SOFFITS AND ABOVE DOORS AND WINDOWS.
- EXTEND PERIMETER WALLS AT MECHANICAL ROOMS, ELECTRICAL ROOMS MDF ROOM, ELEVATOR SHAFTS & STAIRWELLS UP TO STRUCTURAL DECK.

DEMOLITION LEGEND

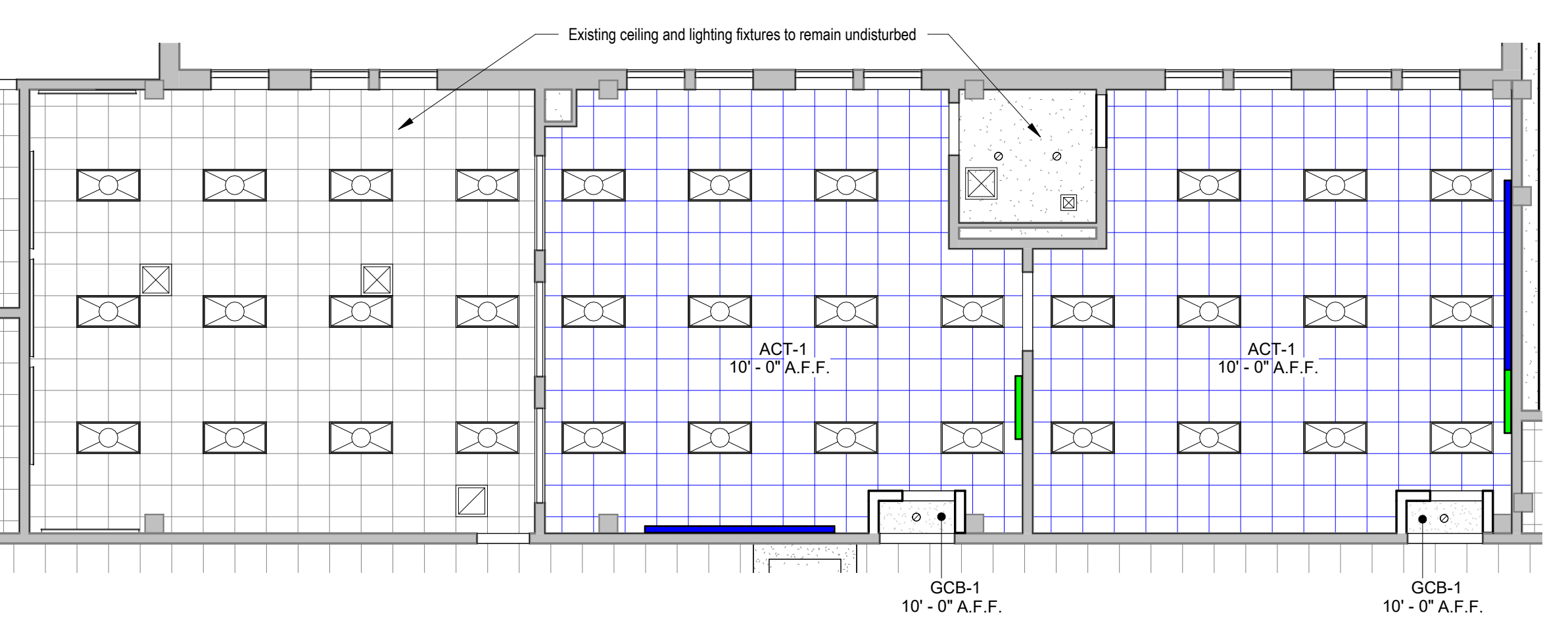
- CEILING GRID & TILE TO BE DEMOLISHED
- WALLS TO BE DEMOLISHED
- EXISTING WALL TO REMAIN



3 PROPOSED FLOOR PLAN - SOC & NETWORKING CLASSROOMS
1/8" = 1'-0"



4 FURNITURE & EQUIPMENT PLAN - SOC & NETWORKING CLASSROOMS
1/8" = 1'-0"



6 REFLECTED CEILING PLAN - Callout 1
1/8" = 1'-0"

NOTE: GC TO PROTECT, PRESERVE AND TO COORDINATE WITH OWNER REMOVAL OF I.T. EQUIPMENT FROM CEILING AS REQUIRED

| CLASSROOM CEILING SCHEDULE | |
|----------------------------|--|
| Type Mark | Description |
| ACT-1 | 2x2 Acoustical Ceiling Tile |
| GCB-1 | 5/8" Gypsum Board on Metal Stud Framing |
| GCB-2 | 5/8" Moisture-Resistant Type X Gypsum Board on Metal Stud Framing; re: Specs |

EQUIPMENT & SIGNAGE PLANS GENERAL NOTES

- REFER TO MILLWORK ELEVATIONS & DETAILS SHEETS FOR FURTHER INFORMATION.
- CLOSET SHELVES (SH#) & STANDARD MILLWORK STORAGE UNITS (MWH) ARE DESCRIBED ON MILLWORK ELEVATIONS & DETAILS SHEET A-701
- REFER TO EQUIPMENT SCHEDULES SHEET FOR FURTHER INFORMATION ON CLASSROOM EQUIPMENT & INTERIOR SIGNAGE.
- TVS & BRACKETS TO BE FURNISHED AND INSTALLED BY OWNER UNLESS NOTED OTHERWISE.
- FURNITURE N.I.C., SHOWN FOR COORDINATION PURPOSES ONLY.

GENERAL EQUIPMENT NOTES

- OPOI = OWNER PROVIDED/OWNER INSTALLED
- CPCI = CONTRACTOR PROVIDED/CONTRACTOR INSTALLED
- OPCI = OWNER PROVIDED/CONTRACTOR INSTALLED
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- WHEN BASIS OF DESIGN INDICATED ON SCHEDULE, "OR EQUAL" PRODUCTS WILL BE ACCEPTED BUT ARE TO BE APPROVED BY ARCHITECT DURING SUBMITTAL PROCESS. REFER TO SPECIFICATIONS SECTION TITLED "SUBMITTAL PROCEDURES" FOR FURTHER INFORMATION.

SOC & NETWORKING CLASSROOMS FURNITURE SCHEDULE

| Type Mark | Description | Count | Responsibility |
|-----------|---|-------|----------------|
| ITF1 | CCI Hide-Away LCD Table 50 Inch | 24 | O.P.O.I. |
| ITF2 | CCI Active Learning Table | 12 | O.P.O.I. |
| ITF3 | Student Chairs (18 Inch A+ Seat Height) | 48 | O.P.O.I. |
| ITF4 | Flash Furniture Ergonomic Mesh High-Back Office Chair | 24 | O.P.O.I. |
| ITF5 | Teacher's Desk | 3 | O.P.O.I. |
| ITF6 | Teacher's Chair | 3 | O.P.O.I. |

SOC & NETWORKING CLASSROOMS SPECIALTY EQUIPMENT SCHEDULE

| Type Mark | Description | Count | Responsibility |
|-----------|---|-------|----------------|
| ITE1 | 42U SmartRack Wide Standard-Depth Rack Enclosure Cabinet with Doors and Side Panels | 2 | O.P.O.I. |

TV SCHEDULE

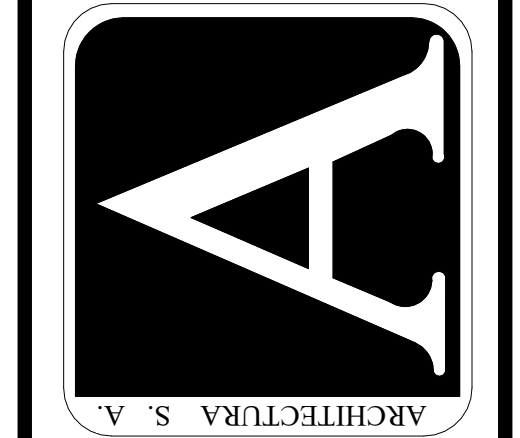
| Type Mark | Description | Comments |
|-----------|--|----------|
| TV1 | 65" Interactive Board - ViewSonic with Mobile Trolley Cart | O.P.O.I. |
| TV2 | Samsung - 85" Class CU7000 Crystal UHD 4K Smart Tizen TV | O.P.O.I. |

FLOOR PLAN GENERAL NOTES

- MILLWORK IS INDICATED ON EQUIPMENT & SIGNAGE PLANS.
- CLASSROOM EQUIPMENT IS INDICATED ON EQUIPMENT & SIGNAGE PLANS.
- GRID LINES CORRESPOND WITH STRUCTURAL GRID LINES. REFER TO STRUCTURAL PLANS FOR FURTHER INFORMATION. IN CASE OF CONFLICT, CONTACT ARCHITECT PRIOR TO BIDDING.
- UNLESS OTHERWISE INDICATED, PLAN DIMENSIONS ARE TO COLUMN GRID ON CENTERLINES, NOMINAL SURFACE OF MASONRY, FACE OF STUDS, AND FACE OF CONCRETE WALLS.
- REFER TO SYMBOL LOG ON SHEET G-001 FOR WINDOW, DOOR, WALL, EQUIPMENT TAGS.
- WHERE A DOOR IS LOCATED NEAR CORNER OF ROOM AND IS NOT LOCATED BY DIMENSION ON PLAN OR DETAILS, DIMENSION SHALL BE 3" FROM FACE OF WALL TO FACE OF ROUGH OPENING. DIMENSION SHALL BE 6" FROM FACE OF WALL TO EDGE OF ROUGH OPENING AT CONCRETE WALLS.
- AT ALL INTERIOR PARTITIONS WHERE PARTITION DOES NOT EXTEND TO ROOF DECK OR FLOOR DECK ABOVE, AND NO INSULATION ABOVE CEILING IS CALLED FOR, BACK LOAD CEILING PANELS WITH LOW-DENSITY FACED FLAME SPREAD R11 BATTS ALONG ENTIRE LENGTH OF PARTITION, FOR A DISTANCE OF 4" FROM THE FACE OF THE PARTITION.
- REPETITIVE FEATURES ARE NOT DRAWN IN THEIR ENTIRETY AND SHALL BE COMPLETELY PROVIDED AS IF DRAWN IN FULL.
- FURNITURE N.I.C., SHOWN FOR COORDINATION PURPOSES.
- TYPICAL CLASSROOM PLAN EQUIPMENT, CASEWORK & MEP TO BE USED IN EVERY CLASSROOM, UNLESS NOTED OTHERWISE.
- RE: STRUCTURAL FOR INFORMATION ON FOUNDATIONS, STRUCTURAL COLUMNS, STRUCTURAL FRAMING & METAL DECKS. SOME STRUCTURAL COLUMNS SHOWN FOR COORDINATION PURPOSES. REFER TO STRUCTURAL DRAWINGS FOR FURTHER INFORMATION.
- DO NOT SCALE DRAWINGS IF DIMENSIONS ARE IN QUESTION, OBTAIN CLARIFICATION FROM THE ARCHITECT BEFORE CONTINUING THE WORK.
- NOTIFY ARCHITECT OF ANY VARIATION REQUIRED IN THE DIMENSIONS NOTES FOR INSTALLATIONS OF EQUIPMENT BEFORE CONTINUING THE WORK.
- VERIFY DIMENSIONS BEFORE ORDERING MATERIALS AND PROCEEDING WITH THE WORK.
- PROVIDE BLOCKING AS REQUIRED FOR PROPER SUPPORT OF WALL AND CEILING MOUNTED EQUIPMENT.
- REFER TO SHEET A-602 FOR ROOM SIGNAGE LEGEND, INTERIOR SIGNAGE MOUNTING AND SIGNAGE NOTES.
- REFER TO SHEET A-401 FOR TOILET ROOM ACCESSORIES & PLUMBING FIXTURE MOUNTING HEIGHT SCHEDULE.
- REFER TO SPECIFICATIONS SECTION 099000 PAINTING & COATING.
- ALL CMU EXPOSED CORNERS TO BE BULLNOSE, TYP.

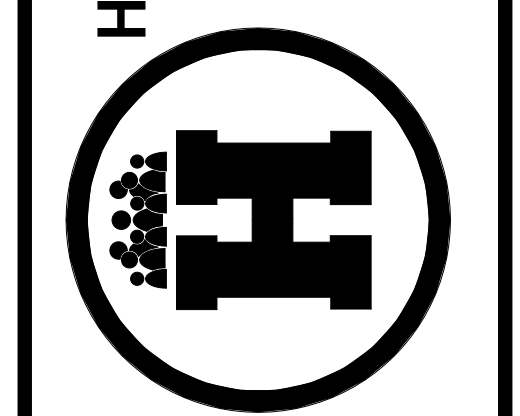


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ARCHITECTURA S.A., INC.
ARCHITECTURE INTERIOR DESIGN PLANNING
17038 REDLAND RD., SUITE 101, SAN ANTONIO, TEXAS 78247
t. 210.384.8200 f. 210.319.3555
architecturasa@yahoo.com

HISD CAREER TECHNOLOGY EDUCATION (CTE)
HARLANDALE INDEPENDENT SCHOOL DISTRICT
519 W HARDING BLVD.
SAN ANTONIO, TX 78221



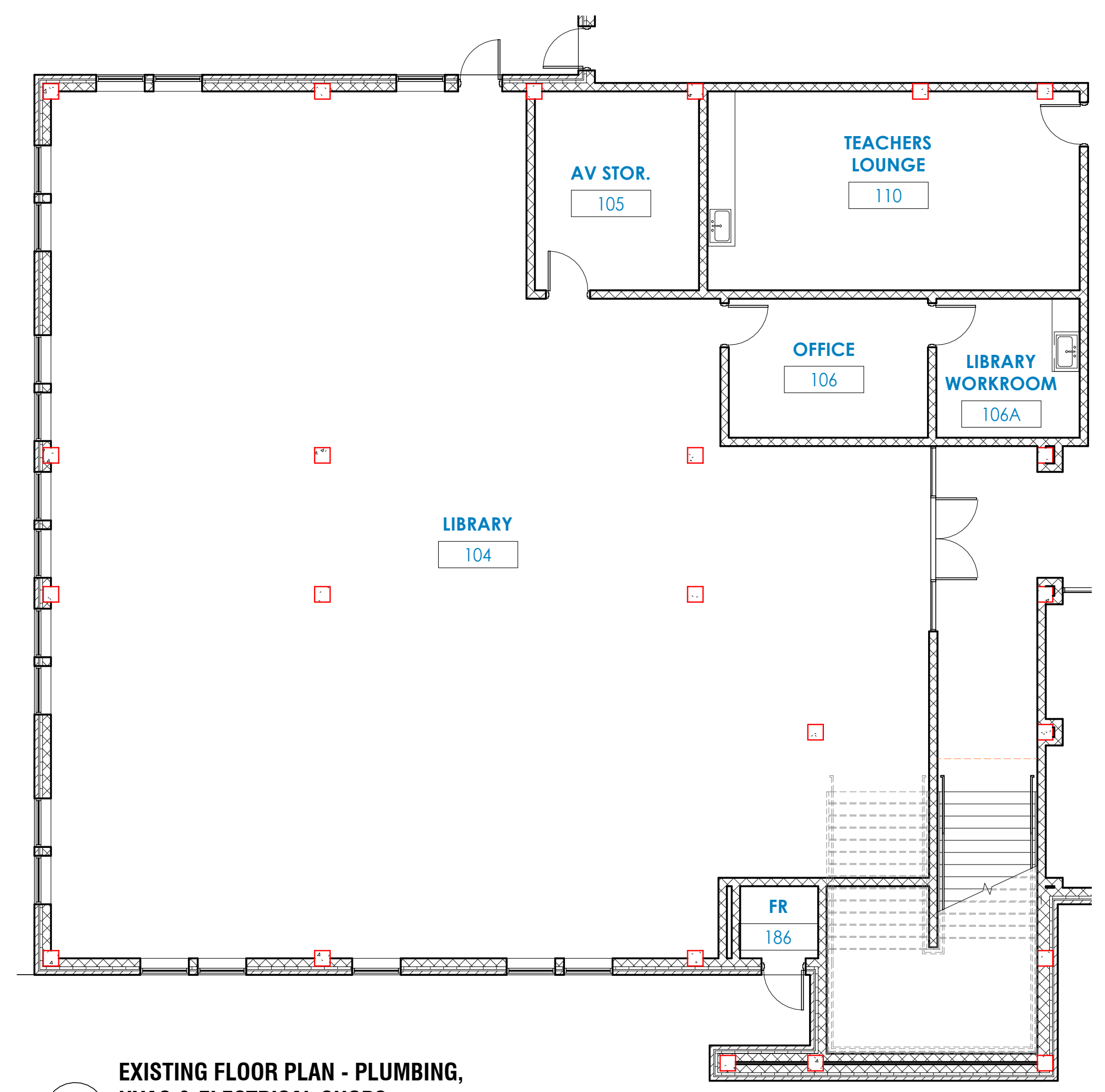
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Checked By: SAV
Job Number: 23-09

PLUMBING, HVAC & ELECT. ENLARGED PLANS

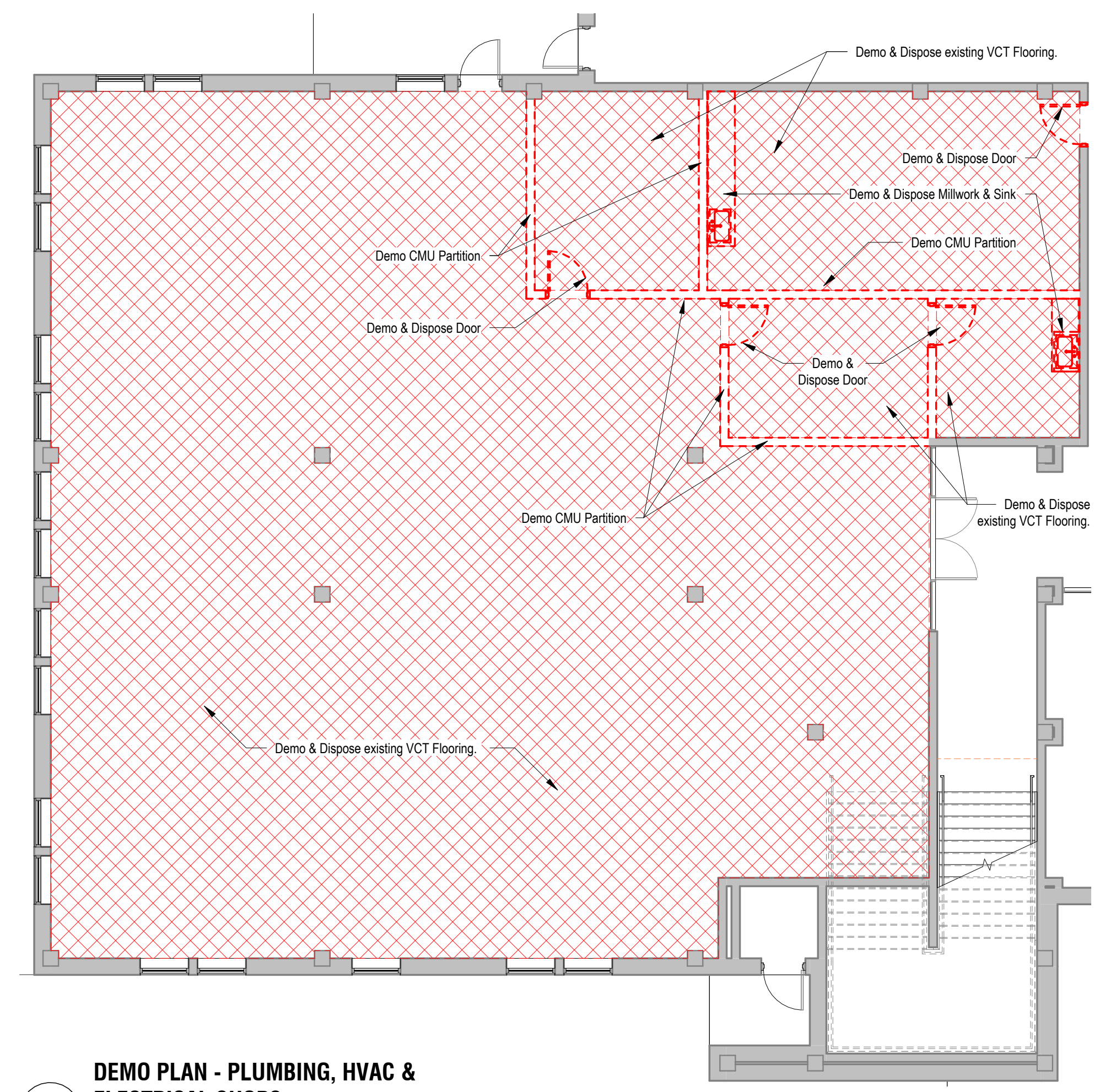
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Date: 01/31/2024

Drawing No: **A-404**

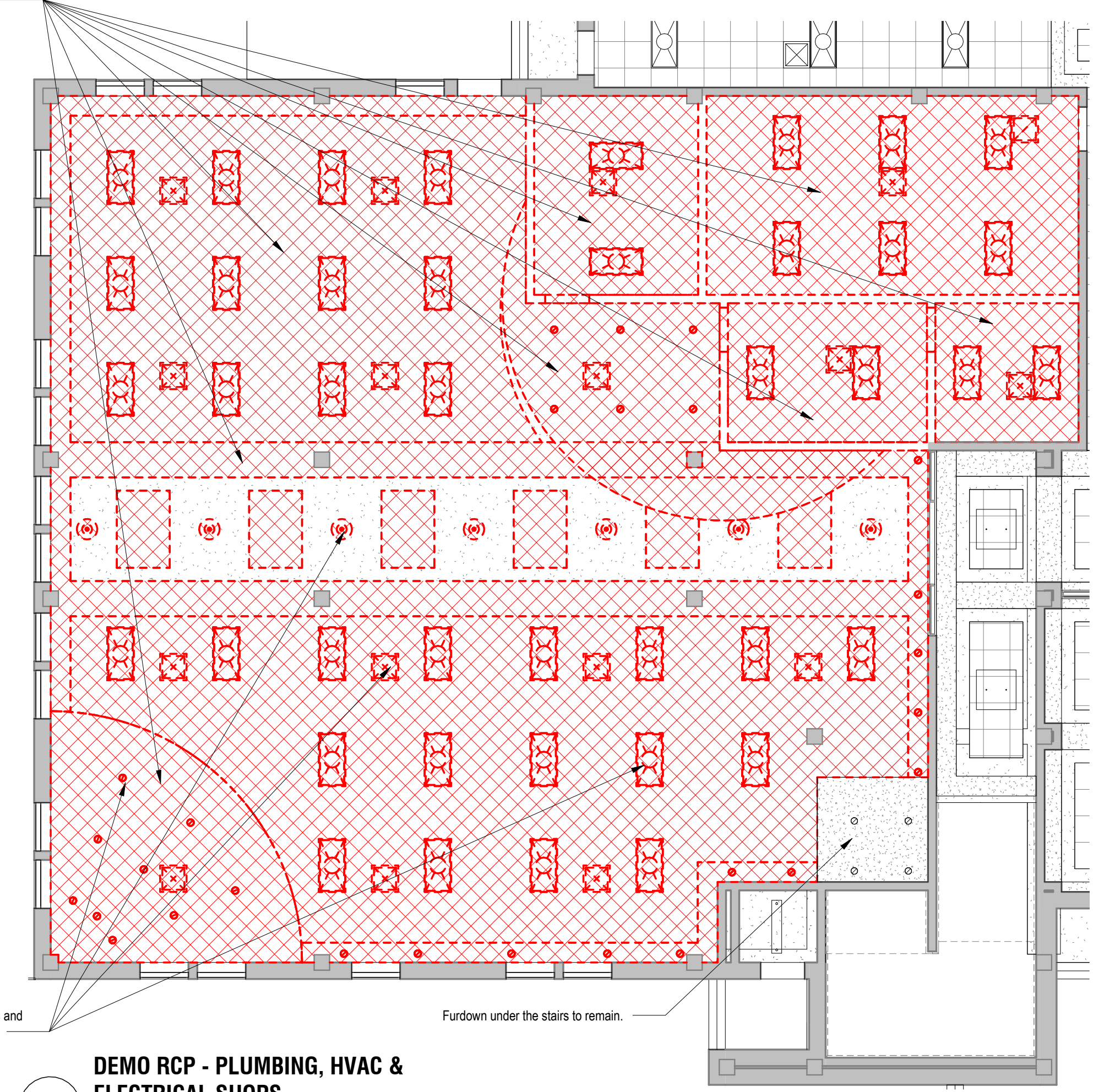


1 EXISTING FLOOR PLAN - PLUMBING, HVAC & ELECTRICAL SHOPS
1/8" = 1'-0"



2 DEMO PLAN - PLUMBING, HVAC & ELECTRICAL SHOPS
1/8" = 1'-0"

Demo & Dispose all Ceiling Grid, Ceiling Tiles and Gypsum Board Ceiling



3 DEMO RCP - PLUMBING, HVAC & ELECTRICAL SHOPS
1/8" = 1'-0"

GENERAL NOTES

- ALL NEW WORK TO COMPLY WITH THE 2018 INTERNATIONAL BUILDING CODE
- EXISTING PUBLIC ANNOUNCEMENT TO BE REMODELED/EXTENDED/ALTERED AS NECESSARY TO ENSURE THAT RENOVATED AREAS ARE CONNECTED TO EXISTING SYSTEM
- CORRIDORS TO REMAIN FIRE RESISTANCE RATED
- PORTABLE FIRE EXTINGUISHERS TO BE MINIMUM 2A-10BC AND LOCATED SUCH THAT THE MAXIMUM TRAVEL DISTANCE TO AN EXTINGUISHER DOES NOT EXCEED 75'-0"
- PENETRATIONS OF FIRE RESISTANCE RATED WALL OR HORIZONTAL ASSEMBLIES TO BE PROTECTED WITH EITHER A SHAFT, DAMPER, OR THROUGH PENETRATION FIRE STOP AS REQUIRED FOR SPECIFIC PENETRATION IN ACCORDANCE WITH IBC CHAPTER 7

DEMOLITION LEGEND

- CEILING GRID & TILE TO BE DEMOLISHED
- WALLS TO BE DEMOLISHED
- EXISTING WALL TO REMAIN

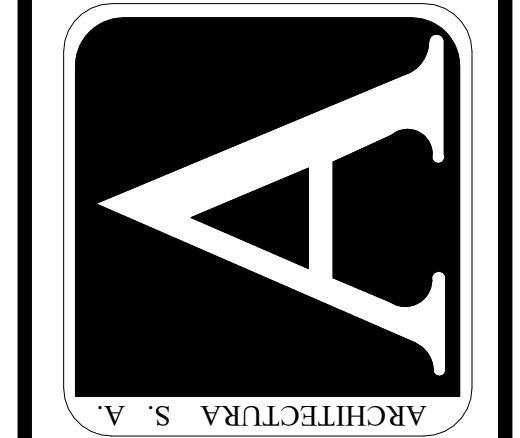
NOTE: GC TO PROTECT, PRESERVE AND TO COORDINATE WITH OWNER REMOVAL OF I.T. EQUIPMENT FROM CEILING AS REQUIRED

Remove all Lighting fixtures and HVAC Vents and Diffusers

Furrow under the stairs to remain.

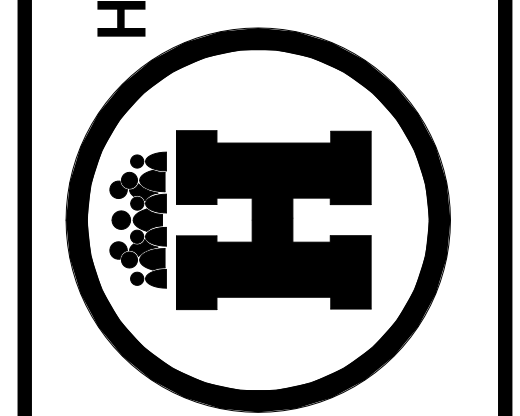


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519 W HARDING BLVD.
SAN ANTONIO, TX 78221



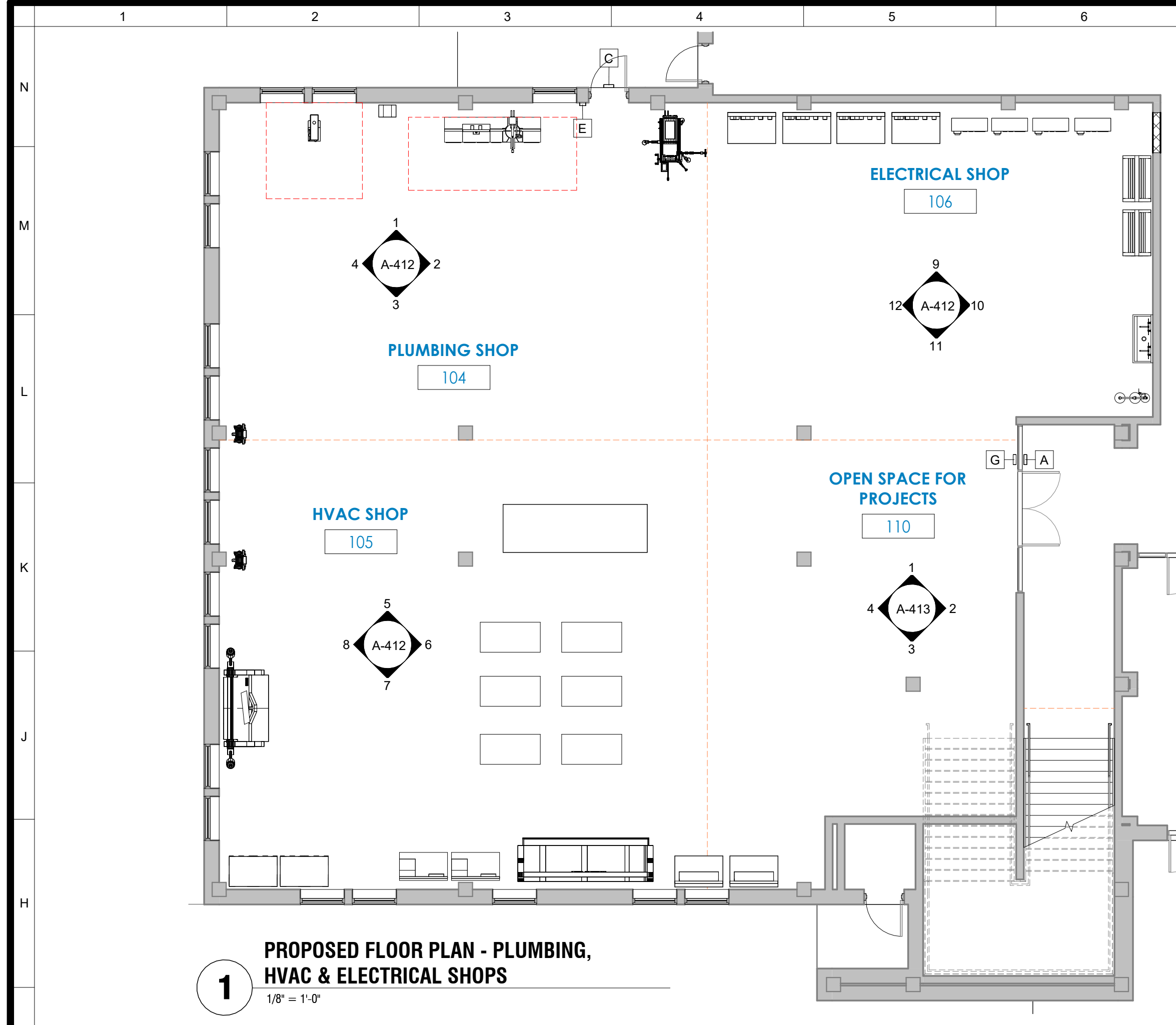
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Checked By: SAV
Job Number: 23-09

PLUMBING, HVAC & ELECT. ENLARGED PLANS

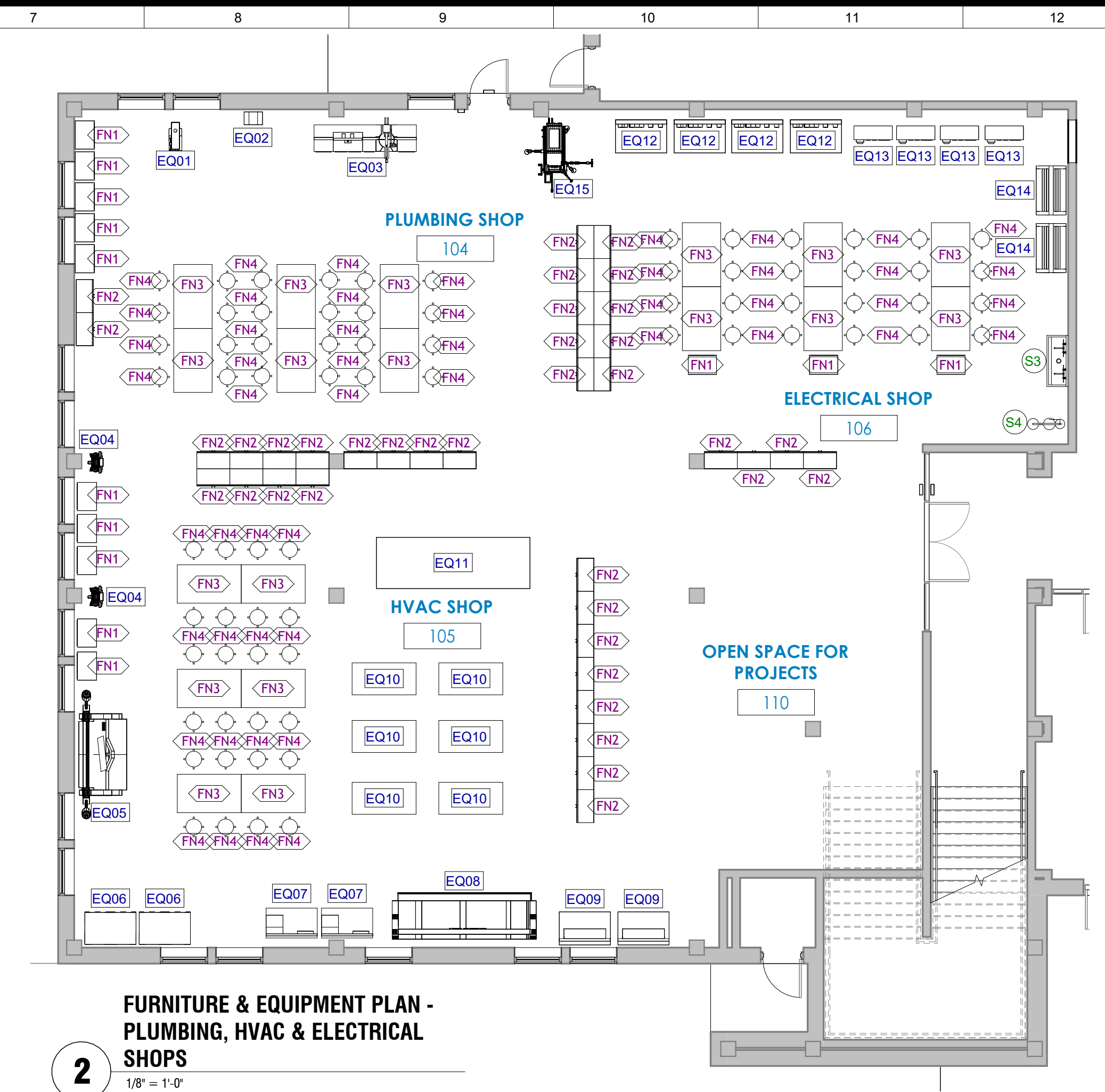
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Date: 01/31/2024

Drawing No:
A-405



1
PROPOSED FLOOR PLAN - PLUMBING, HVAC & ELECTRICAL SHOPS
1/8" = 1'-0"



2
FURNITURE & EQUIPMENT PLAN - PLUMBING, HVAC & ELECTRICAL SHOPS
1/8" = 1'-0"

FLOOR PLAN GENERAL NOTES

- A. MILLWORK IS INDICATED ON EQUIPMENT & SIGNAGE PLANS
- B. CLASSROOM EQUIPMENT IS INDICATED ON EQUIPMENT & SIGNAGE PLANS
- C. GRID LINES CORRESPOND WITH STRUCTURAL GRID LINES. REFER TO STRUCTURAL PLANS FOR FURTHER INFORMATION. IN CASE OF CONFLICT, CONTACT ARCHITECT PRIOR TO BIDDING.
- D. UNLESS OTHERWISE INDICATED, PLAN DIMENSIONS ARE TO COLUMN GRID ON CENTERLINES, NOMINAL SURFACE OF MASONRY, FACE OF STUDS AND FACE OF CONCRETE WALLS
- E. REFER TO SYMBOL LEGEND ON SHEET G-001 FOR WINDOW, DOOR, WALL, EQUIPMENT TAGS
- F. WHERE A DOOR IS LOCATED NEAR CORNER OF ROOM AND IS NOT LOCATED BY DIMENSION ON PLAN OR DETAILS, DIMENSION SHALL BE 3" FROM FACE OF WALL TO FACE OF ROUGH OPENING. DIMENSION SHALL BE 6" FROM FACE OF WALL TO EDGE OF ROUGH OPENING AT CONCRETE WALLS
- G. AT ALL INTERIOR PARTITIONS WHERE PARTITION DOES NOT EXTEND TO ROOF DECK OR FLOOR DECK ABOVE, AND NO INSULATION ABOVE CEILING IS CALLED FOR, BACK LOAD CEILING PANELS WITH LOW-DENSITY FACED FLAME SPREAD R11 BATTS ALONG ENTIRE LENGTH OF PARTITION, FOR A DISTANCE OF 4" FROM THE FACE OF THE PARTITION.
- H. REPETITIVE FEATURES ARE NOT DRAWN IN THEIR ENTIRETY AND SHALL BE COMPLETELY PROVIDED AS IF DRAWN IN FULL.
- I. FURNITURE N.I.C., SHOWN FOR COORDINATION PURPOSES.
- J. TYPICAL CLASSROOM PLAN EQUIPMENT, CASEWORK & MEP TO BE USED IN EVERY CLASSROOM, UNLESS NOTED OTHERWISE.
- K. RE: STRUCTURAL FOR INFORMATION ON FOUNDATIONS, STRUCTURAL COLUMNS, STRUCTURAL FRAMING & METAL DECKS. SOME STRUCTURAL COLUMNS SHOWN FOR COORDINATION PURPOSES. REFER TO STRUCTURAL DRAWINGS FOR FURTHER INFORMATION.
- L. DO NOT SCALE DRAWINGS IF DIMENSIONS ARE IN QUESTION. OBTAIN CLARIFICATION FROM THE ARCHITECT BEFORE CONTINUING THE WORK.
- M. NOTIFY ARCHITECT OF ANY VARIATION REQUIRED IN THE DIMENSIONS NOTES FOR INSTALLATIONS OF EQUIPMENT BEFORE CONTINUING THE WORK.
- N. VERIFY DIMENSIONS BEFORE ORDERING MATERIALS AND PROCEEDING WITH THE WORK.
- O. PROVIDE BLOCKING AS REQUIRED FOR SUPPORT OF WALL AND CEILING MOUNTED EQUIPMENT.
- P. REFER TO SHEET A-602 FOR ROOM SIGNAGE LEGEND, INTERIOR SIGNAGE MOUNTING AND SIGNAGE NOTES.
- Q. REFER TO SHEET A-401 FOR TOILET ROOM ACCESSORIES & PLUMBING FIXTURE MOUNTING HEIGHT SCHEDULE.
- R. REFER TO SPECIFICATIONS SECTION 099000 PAINTING & COATING.
- S. ALL CMU EXPOSED CORNERS TO BE BULLNOSE, TYP.

EQUIPMENT & SIGNAGE PLANS GENERAL NOTES

- A. REFER TO MILLWORK ELEVATIONS & DETAILS SHEETS FOR FURTHER INFORMATION.
- B. CLOSET SHELVES (SH#) & STANDARD MILLWORK STORAGE UNITS (MW#) ARE DESCRIBED ON MILLWORK ELEVATIONS & DETAILS SHEET A-701
- C. REFER TO EQUIPMENT SCHEDULES SHEET FOR FURTHER INFORMATION
- D. TV'S & BRACKETS TO BE FURNISHED AND INSTALLED BY OWNER UNLESS NOTED OTHERWISE.
- E. FURNITURE N.I.C., SHOWN FOR COORDINATION PURPOSES ONLY.

GENERAL EQUIPMENT NOTES

- 1. OPOI = OWNER PROVIDED/OWNER INSTALLED
- 2. CPCI = CONTRACTOR PROVIDED/CONTRACTOR INSTALLED
- 3. OPCI = OWNER PROVIDED/CONTRACTOR INSTALLED
- 4. G.C. TO INCLUDE ALL LABOR COSTS INCLUDING LIFT RENTAL IF NECESSARY.
- 5. WHEN BASIS OF DESIGN INDICATED ON SCHEDULE; "OR EQUAL" PRODUCTS WILL BE ACCEPTED BUT ARE TO BE APPROVED BY ARCHITECT DURING SUBMITTAL PROCESS. REFER TO SPECIFICATIONS SECTION TITLED "SUBMITTAL PROCEDURES" FOR FURTHER INFORMATION.

PLUMBING, ELECTRICAL & HVAC LAB FURNITURE SCHEDULE

| Type Mark | Description | Count | Responsibility |
|-----------|--|-------|----------------|
| FN1 | Waterloo 5 Drawer Rolling Tool Box | 13 | O.P.O.I. |
| FN2 | 16"D x 31"W x 71"H Metal Storage Freestanding Cabinet Set with Pegboard and Wheels | 36 | O.P.O.I. |
| FN3 | Steel Assembly Table without Bottom Shelf | 18 | O.P.O.I. |
| FN4 | National Public Seating Heavy Duty Steel Stool, 24" Black | 72 | O.P.O.I. |

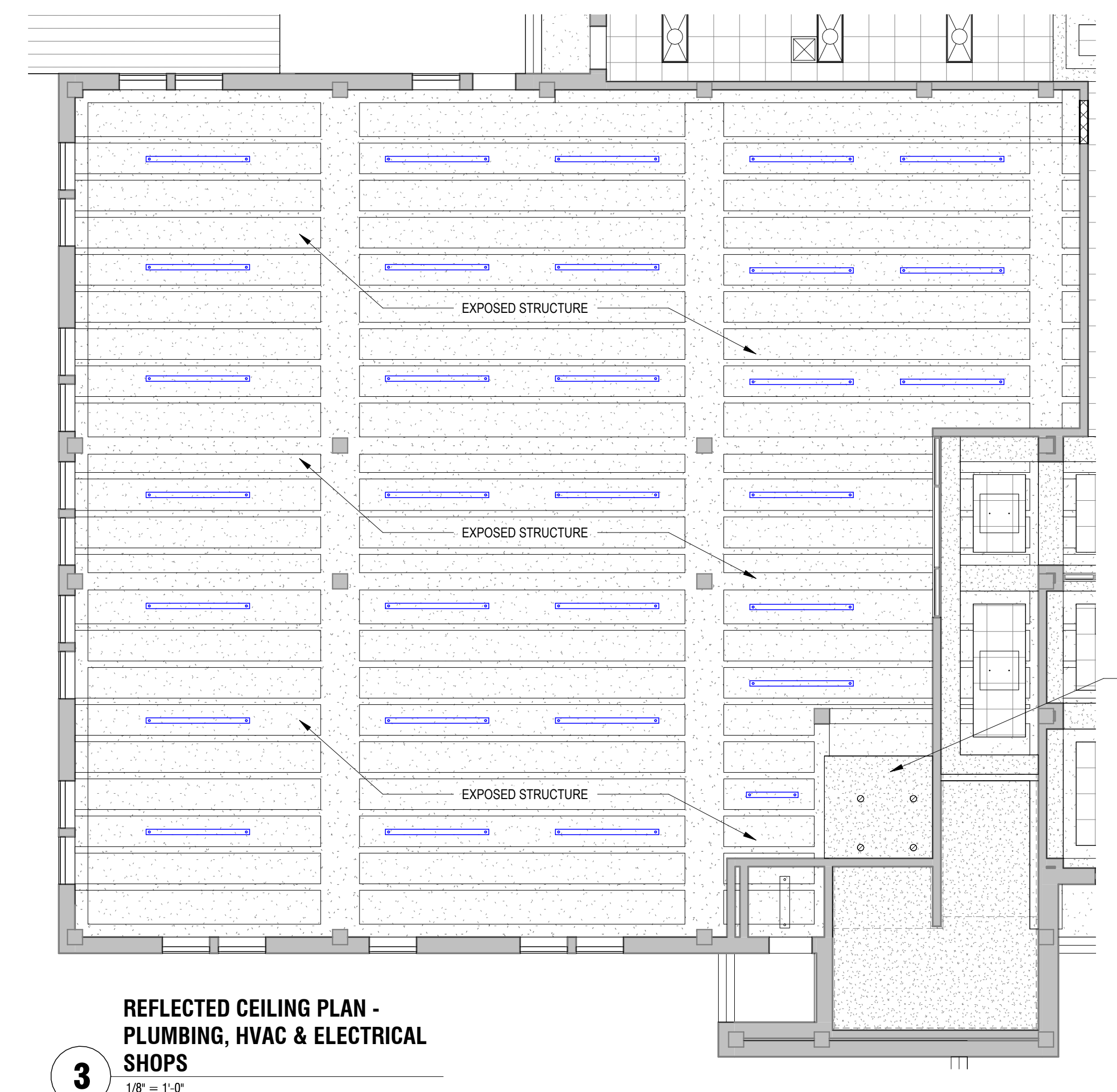
Specialty Equipment Schedule

| Type Mark | Description | Count | Manufacturer | Model | Comments |
|-----------|--|-------|---------------------------------|------------------|----------|
| EQ01 | 14" Heavy Duty- Floor Drill Press | 1 | Grizzly | G7944 | O.P.O.I. |
| EQ02 | AC/DC 225/A25 Stick Welder | 1 | Lincoln Electric | K1297 | O.P.O.I. |
| EQ03 | Miter Saw | 1 | DeWALT | DWS779 | O.P.O.I. |
| EQ04 | Bench Grinder | 2 | DeWALT | DW758 | O.P.O.I. |
| EQ05 | Sheet Metal Break | 1 | TBD | TBD | O.P.O.I. |
| EQ06 | Heat Pump Trainer | 2 | Hampden Engineering Corporation | H-RST-8 | O.P.O.I. |
| EQ07 | Basic Refrigeration Trainer | 2 | Hampden Engineering Corporation | H-RST-6 | O.P.O.I. |
| EQ08 | Sheet Metal Shear | 1 | TBD | TBD | O.P.O.I. |
| EQ09 | Mini Split-Type Heat Pump Trainer | 2 | Hampden Engineering Corporation | H-RST-21A | O.P.O.I. |
| EQ10 | 24"W X 48"L X 34"H Stainless Steels Table w/Undershelves | 6 | TBD | TBD | O.P.O.I. |
| EQ11 | Air & Hydronics Gas/Electric Heating Trainer with A/C | 1 | Hampden Engineering Corporation | H-AHST-D3 | O.P.O.I. |
| EQ12 | Wiring Service Board Trainer | 4 | Hampden Engineering Corporation | H-MCI-1000-WSB-1 | O.P.O.I. |
| EQ13 | Residential Electricity Trainer | 4 | Hampden Engineering Corporation | H-RET-2A | O.P.O.I. |
| EQ14 | Lab Volt Basic Controls Trainer (A-Frame) | 2 | Festo | 8036 | O.P.O.I. |
| EQ15 | 120-Volt Power Drive, Complete Heavy Duty 38 RPM Pipe Threading Machine & Oiler Set w/ Speed Chuck for 1/2 - 2 in. | 1 | RIDGID | 15682 | O.P.O.I. |

MEP SHOPS PLUMBING FIXTURE SCHEDULE

| Type Mark | Description | ADA | Specification | Comments |
|-----------|---|-----|-----------------------------|----------|
| S3 | Elkay Stainless Steel 48" x 20" x 8" Wall Hung Multiple Station Hand Wash Sink Kit. Model EWMA48204 | | refer to MEP Specifications | |
| S4 | Eye Wash Station | Yes | refer to MEP Specifications | C.P.C.I. |

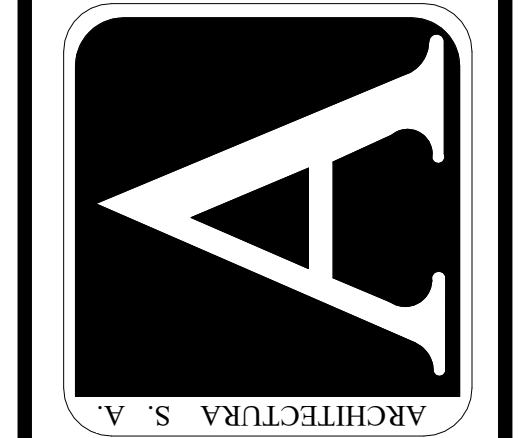
NOTE: GC TO VERIFY WITH OWNER PRIOR PURCHASING, FURNISHING AND INSTALLING ANY EQUIPMENT MODELS, TYPICAL



3
REFLECTED CEILING PLAN - PLUMBING, HVAC & ELECTRICAL SHOPS
1/8" = 1'-0"

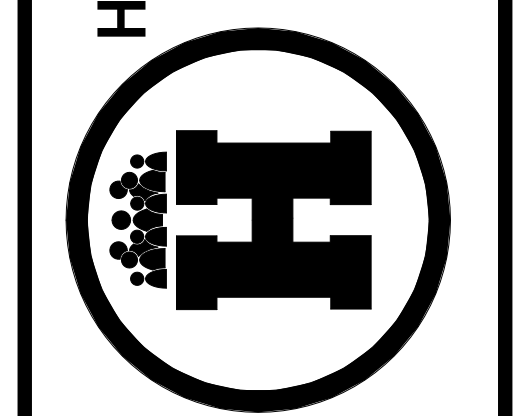


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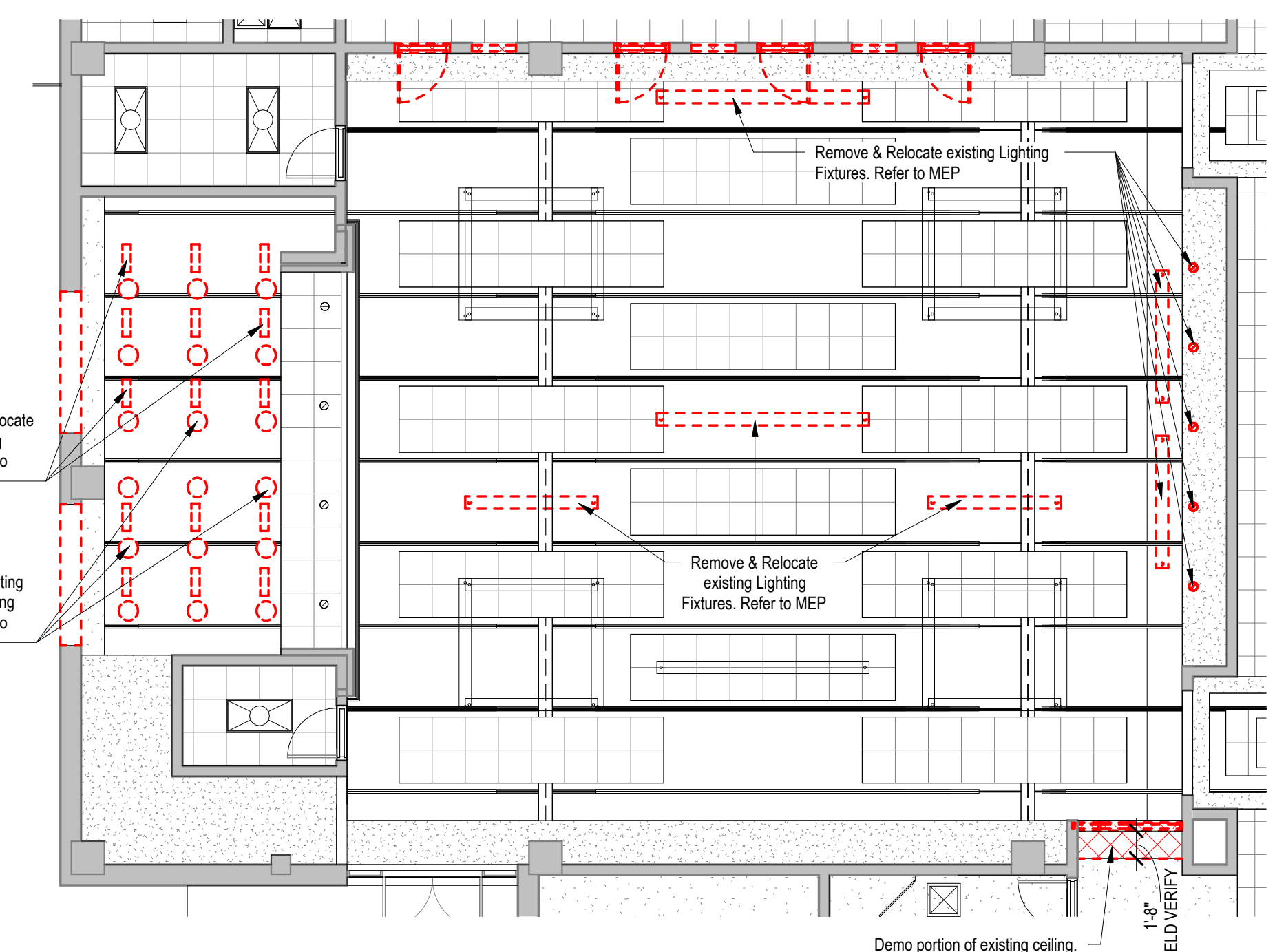
Drawn By: VMC
Checked By: SAV
Job Number: 23-09

WELDING LAB ENLARGED PLANS

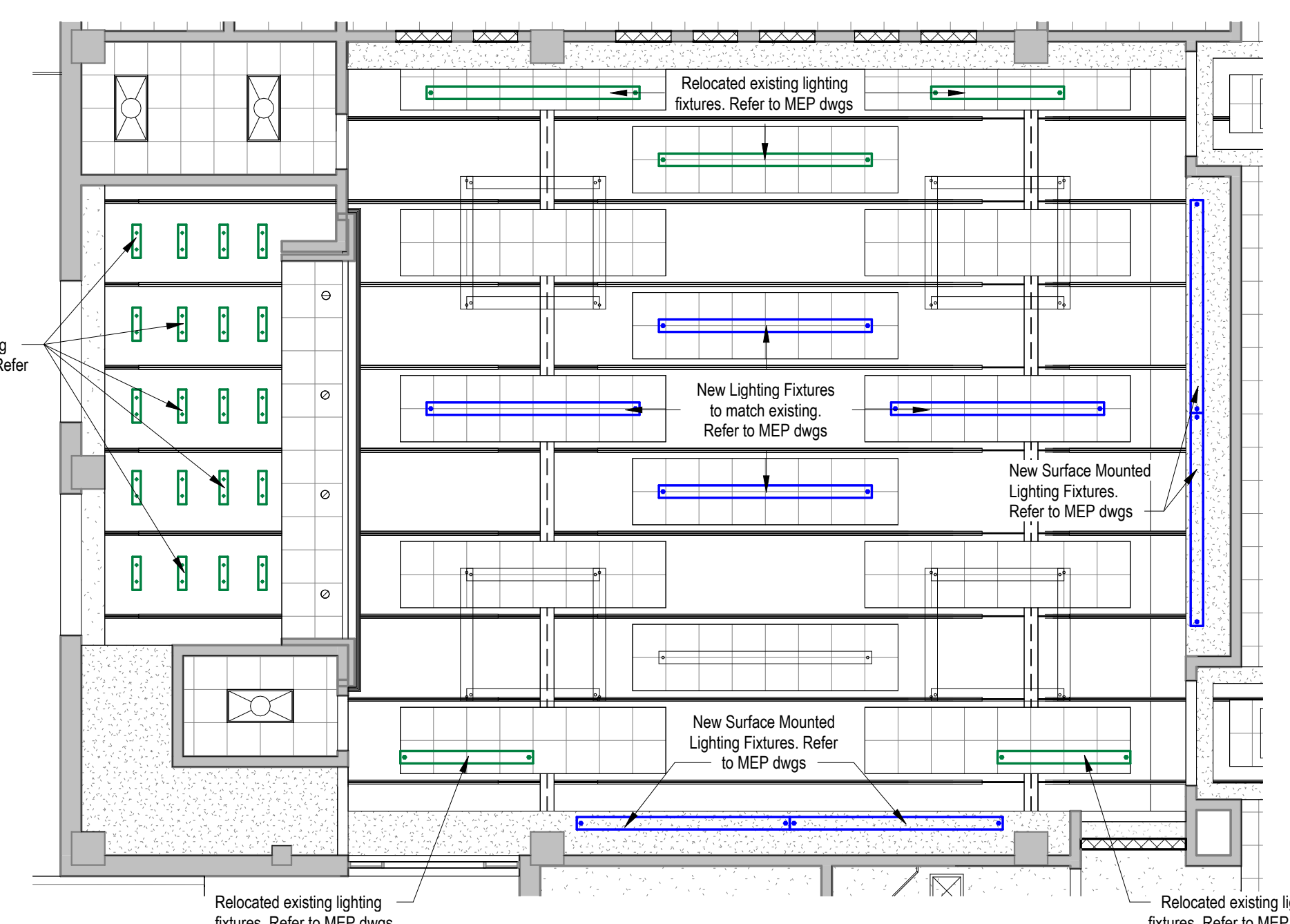
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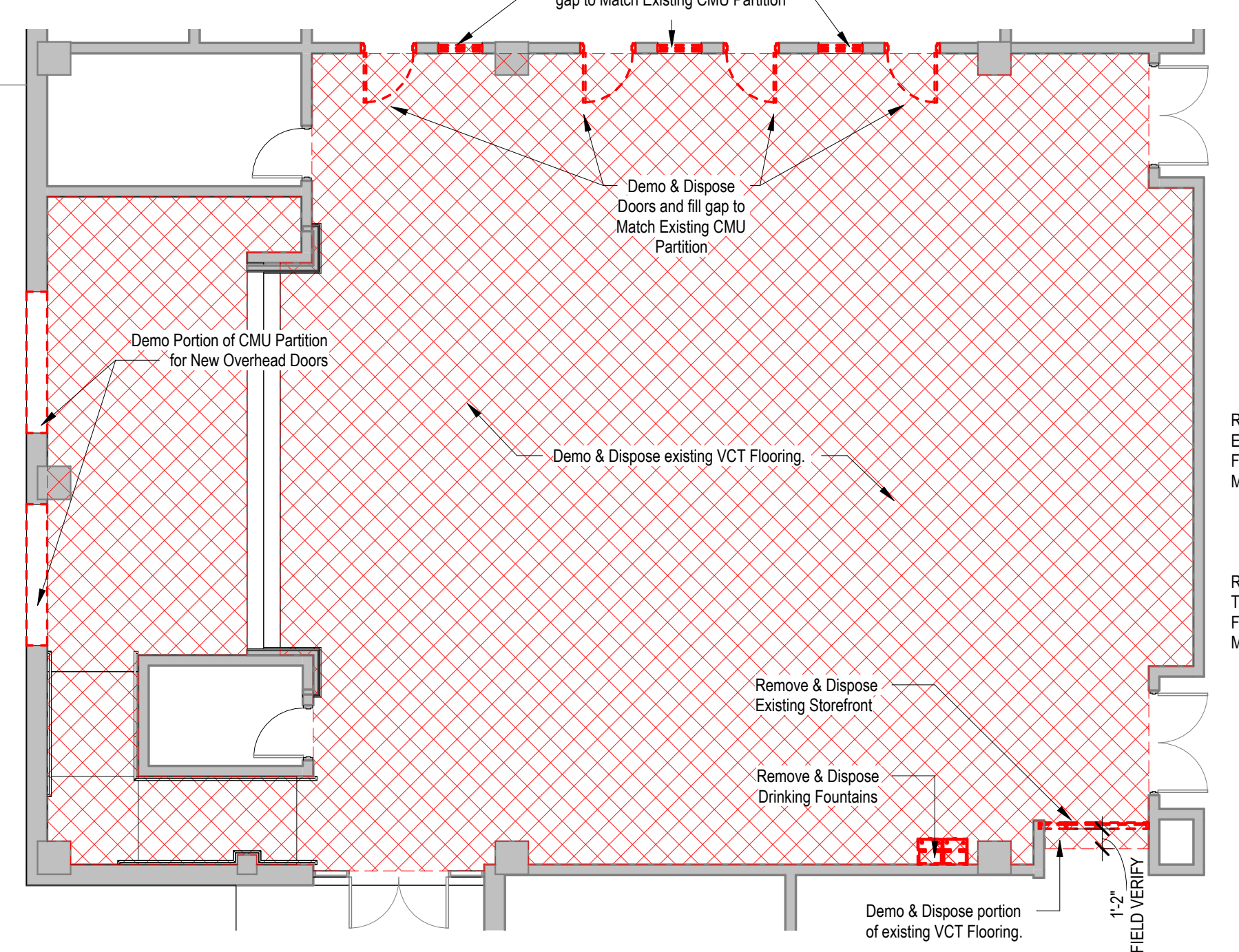
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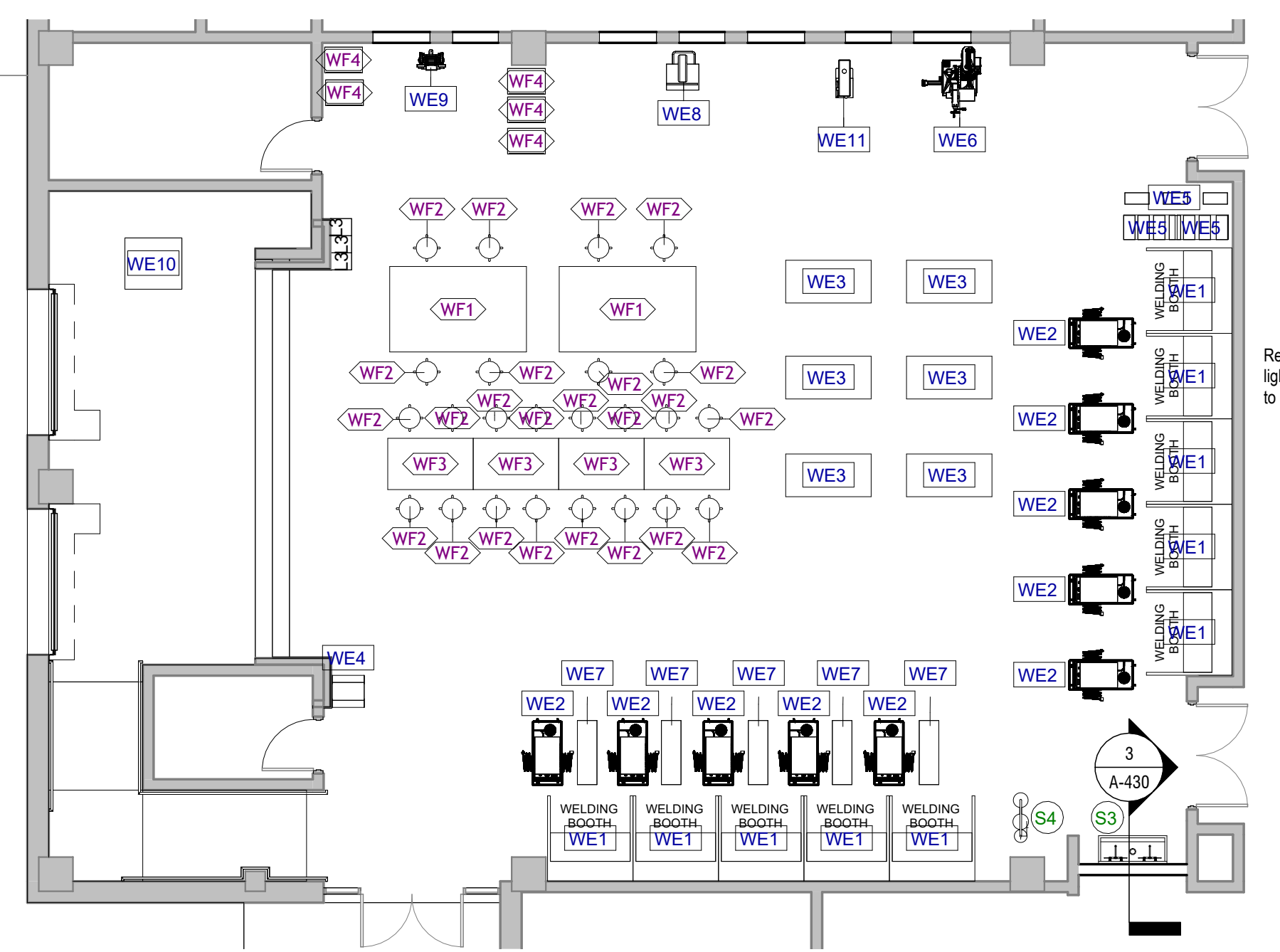
5 DEMO RCP - WELDING LAB
1/8" = 1'-0"



6 RCP - WELDING LAB
1/8" = 1'-0"



2 DEMO PLAN - WELDING LAB
1/8" = 1'-0"



4 FURNITURE & EQUIPMENT PLAN - WELDING LAB
1/8" = 1'-0"

WELDING LAB SPECIALTY EQUIPMENT SCHEDULE

| Type Mark | Description | Count | Manufacturer | Model | Responsibility |
|-----------|--|-------|-----------------------------|-------------|----------------|
| WE1 | 5' x 5' Welding Booth, provided by Owner | 10 | TBD | TBD | O.P.O.I. |
| WE2 | POWER MIG® 256 MIG Welder | 10 | Lincoln Electric | K3088-2 | O.P.O.I. |
| WE3 | 30" x 60" Miller ArcStation Welding Table | 6 | Miller | 951793 | O.P.O.I. |
| WE4 | HydroGuard® Bench Welding Rod Oven - 115/120 V | 1 | American Welding Supply Co. | K2942-1 | O.P.O.I. |
| WE5 | Invertec® V160-T TIG Welder | 10 | Lincoln Electric | K1845-1 | O.P.O.I. |
| WE6 | Metal Cold Saw | 1 | Grizzly | G0783 | O.P.O.I. |
| WE7 | Multimate® 235 Multiprocess Welder w/ EZ-Latch™ Running Gear- 240V | 5 | Miller | 951846 | O.P.O.I. |
| WE8 | Band Saw | 1 | Grizzly | G0906 | O.P.O.I. |
| WE9 | Pedestal Grinder | 1 | Grizzly | H7762 | O.P.O.I. |
| WE10 | Ironworker | 1 | Edwards | 1W40C-1P120 | O.P.O.I. |
| WE11 | 14" Heavy Duty- Floor Drill Press | 1 | Grizzly | G7944 | O.P.O.I. |

WELDING LAB FURNITURE SCHEDULE

| Type Mark | Description | Count | Responsibility |
|-----------|---|-------|----------------|
| WF1 | Large Welding Table (5' x 8' x 36") | 2 | O.P.O.I. |
| WF2 | National Public Seating Heavy Duty Steel Stool, 24" Black | 24 | O.P.O.I. |
| WF3 | Steel Assembly Table without Bottom Shelf | 4 | O.P.O.I. |
| WF4 | Waterloo 5 Drawer Rolling Tool Box | 5 | O.P.O.I. |

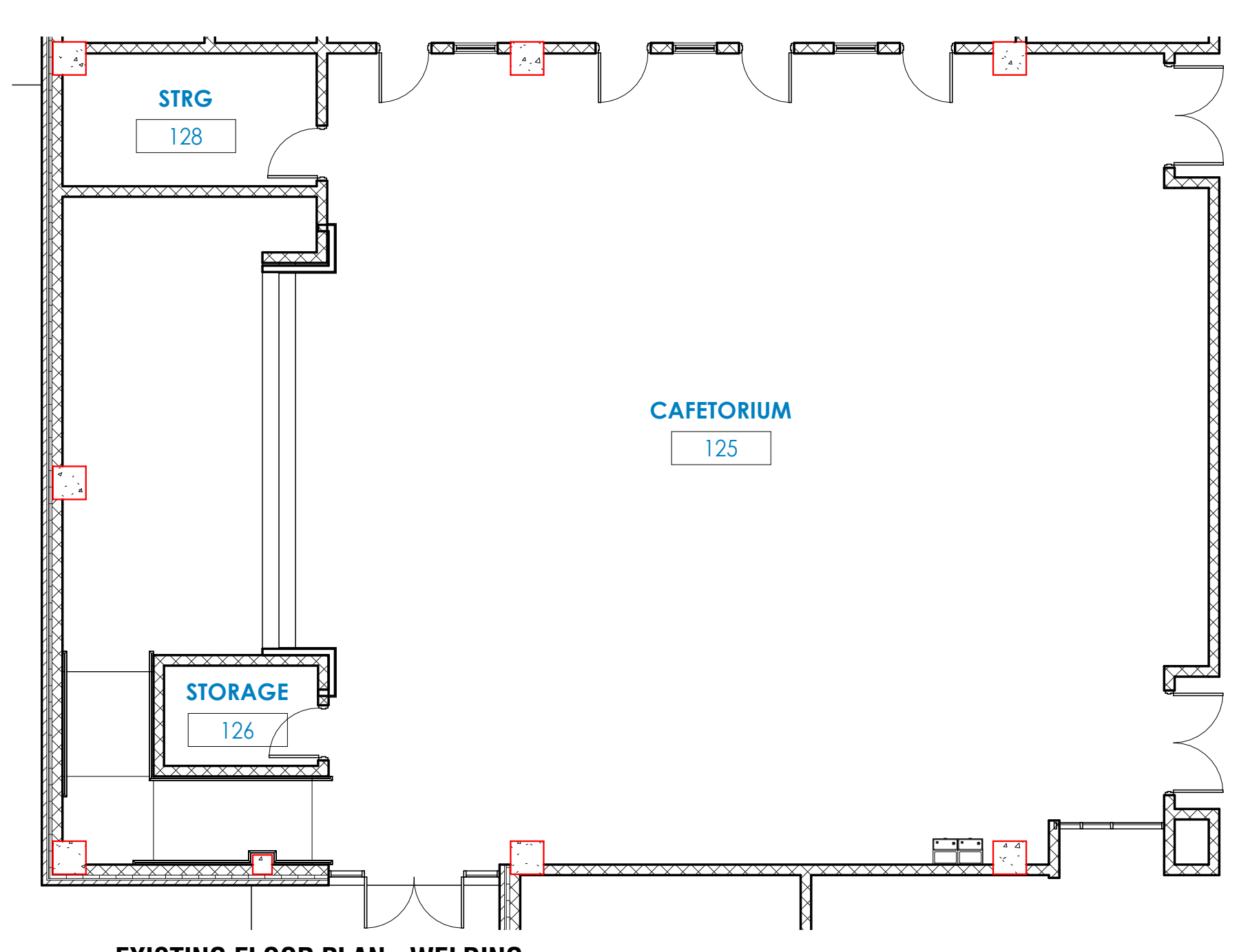
LOCKER SCHEDULE

| Locker Type Mark | # of Tiers | Width | Depth | Height |
|------------------|------------|-------|-------|--------|
| L3 | 3 | 12" | 15" | 60" |

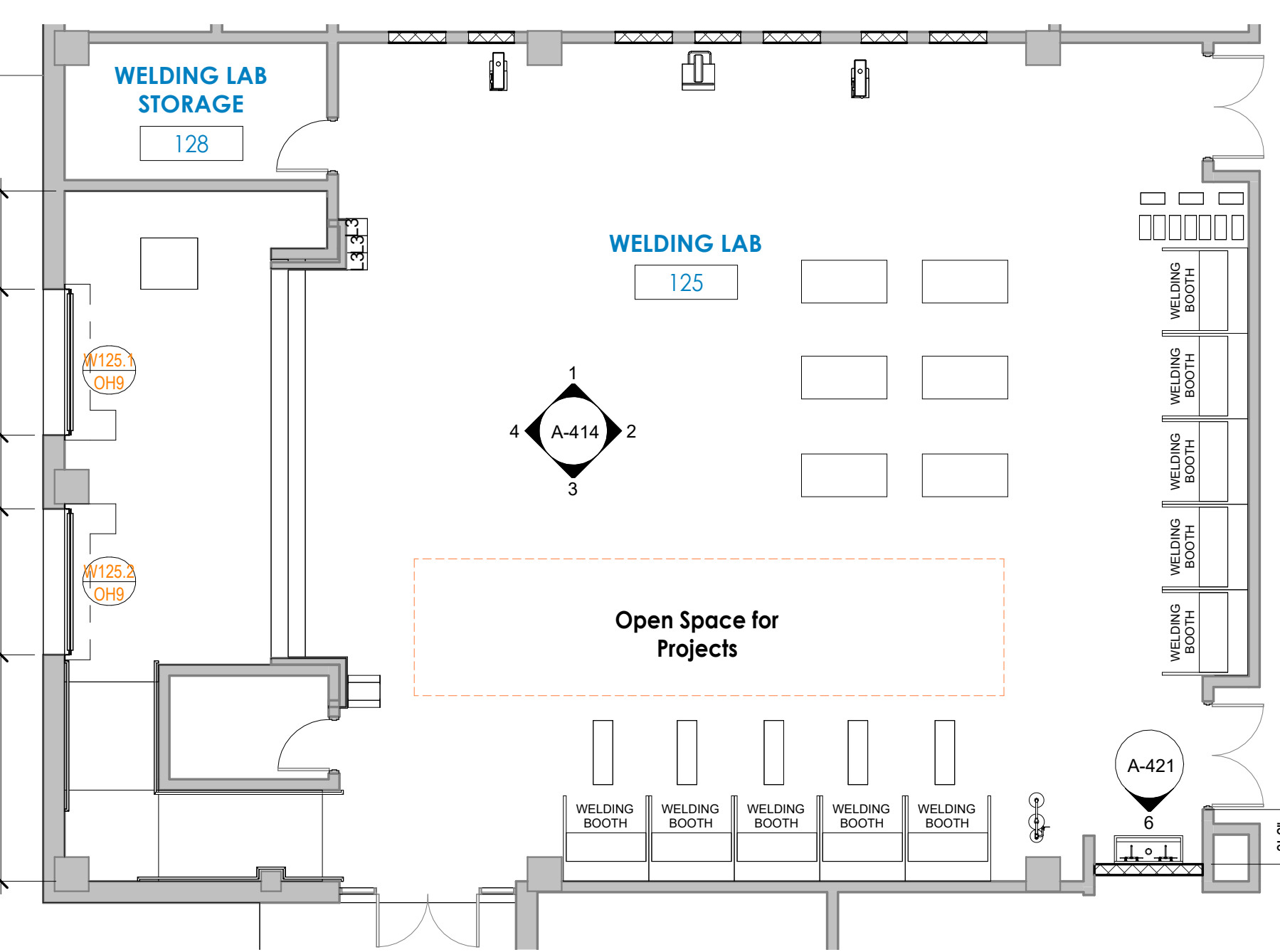
ALL LOCKERS TO BE HDPE, NOT METAL.

WELDING LAB PLUMBING FIXTURE SCHEDULE

| Type Mark | Description | ADA | Specification | Comments |
|-----------|---|-----|-----------------------------|----------|
| S3 | Elkay Stainless Steel 48" x 20" x 8" Wall Hung Multiple Station Hand Wash Sink Kit. Model EWMA48204 | | refer to MEP Specifications | |
| S4 | Eye Wash Station | Yes | refer to MEP Specifications | C.P.C.I. |



1 EXISTING FLOOR PLAN - WELDING LAB
1/8" = 1'-0"



3 PROPOSED FLOOR PLAN - WELDING LAB
1/8" = 1'-0"

FLOOR PLAN GENERAL NOTES

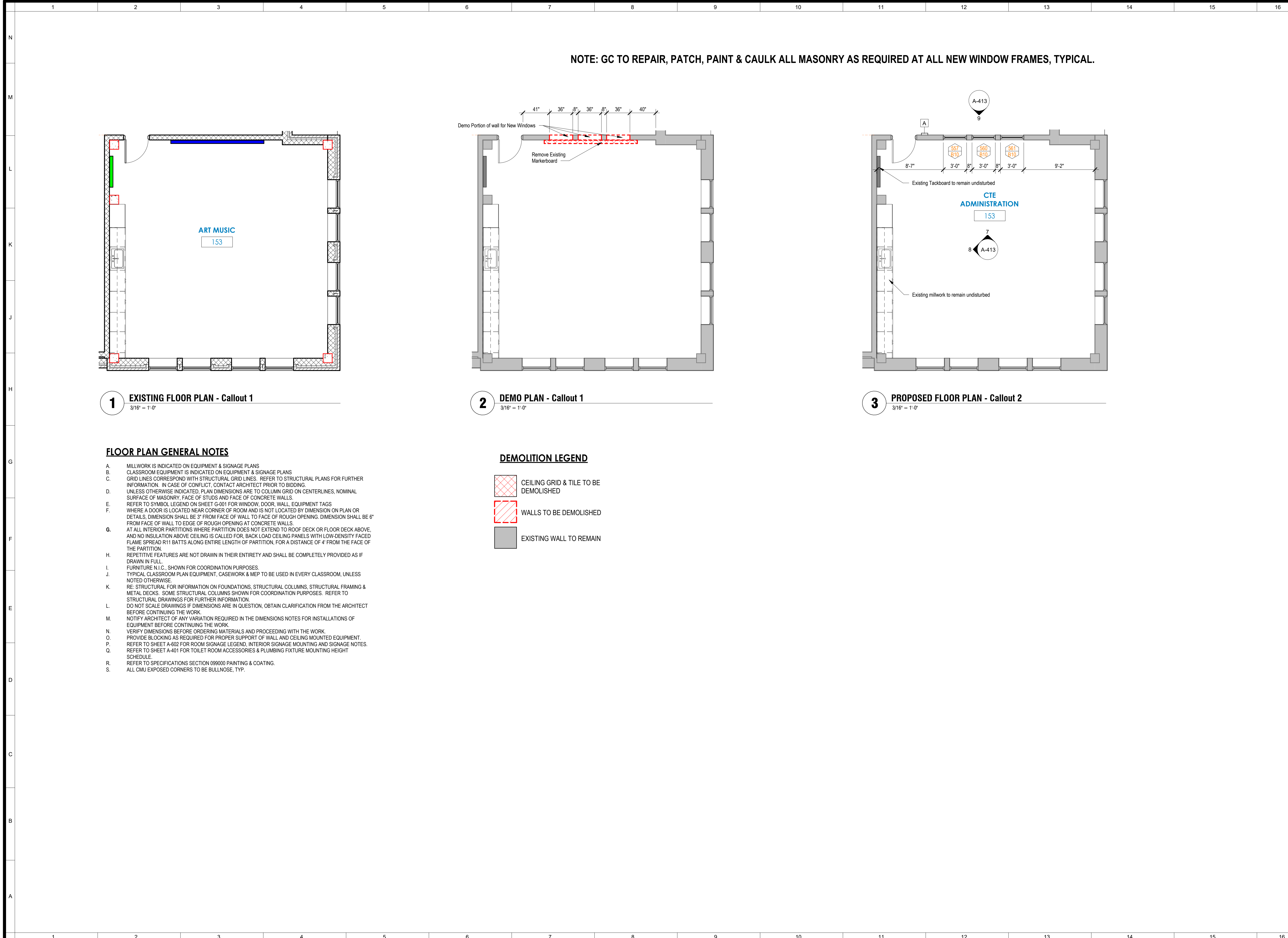
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- D. UNLESS OTHERWISE INDICATED, PLAN DIMENSIONS ARE TO COLUMN GRID ON CENTERLINES, NOMINAL SURFACE OF MASONRY, FACE OF STUDS AND FACE OF CONCRETE WALLS.
- E. REFER TO SYMBOL LEGEND ON SHEET G-001 FOR WINDOW, DOOR, WALL, EQUIPMENT TAGS
- F. WHERE A DOOR IS LOCATED NEAR CORNER OF ROOM AND IS NOT LOCATED BY DIMENSION ON PLAN OR DETAILS, DIMENSION SHALL BE 3" FROM FACE OF WALL TO FACE OF ROUGH OPENING. DIMENSION SHALL BE 6" FROM FACE OF WALL TO EDGE OF ROUGH OPENING AT CONCRETE WALLS.
- G. AT ALL INTERIOR PARTITIONS WHERE PARTITION DOES NOT EXTEND TO ROOF DECK OR FLOOR DECK ABOVE, AND NO INSULATION ABOVE CEILING IS CALLED FOR, BACK LOAD CEILING PANELS WITH LOW-DENSITY FACED FLAME SPREAD R11 BATTS ALONG ENTIRE LENGTH OF PARTITION, FOR A DISTANCE OF 4" FROM THE FACE OF THE PARTITION.
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- J. TYPICAL CLASSROOM PLAN EQUIPMENT, CASEWORK & MEP TO BE USED IN EVERY CLASSROOM, UNLESS NOTED OTHERWISE.
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- R. REFER TO SPECIFICATIONS SECTION 099000 PAINTING & COATING.
- S. ALL CMU EXPOSED CORNERS TO BE BULLNOSE, TYP.

DEMOLITION LEGEND

- CEILING GRID & TILE TO BE DEMOLISHED
- WALLS TO BE DEMOLISHED
- EXISTING WALL TO REMAIN

GENERAL EQUIPMENT NOTES

1. OPOI = OWNER PROVIDED/OWNER INSTALLED
2. CPCI = CONTRACTOR PROVIDED/CONTRACTOR INSTALLED
3. OPCI = OWNER PROVIDED/CONTRACTOR INSTALLED
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5. WHEN BASIS OF DESIGN INDICATED ON SCHEDULE; "OR EQUAL" PRODUCTS WILL BE ACCEPTED BUT ARE TO BE APPROVED BY ARCHITECT DURING SUBMITTAL PROCESS. REFER TO SPECIFICATIONS SECTION TITLED "SUBMITTAL PROCEDURES" FOR FURTHER INFORMATION.



NOTE: GC TO REPAIR, PATCH, PAINT & CAULK ALL MASONRY AS REQUIRED AT ALL NEW WINDOW FRAMES, TYPICAL.

1 EXISTING FLOOR PLAN - Callout 1
3/16" = 1'-0"

2 DEMO PLAN - Callout 1
3/16" = 1'-0"

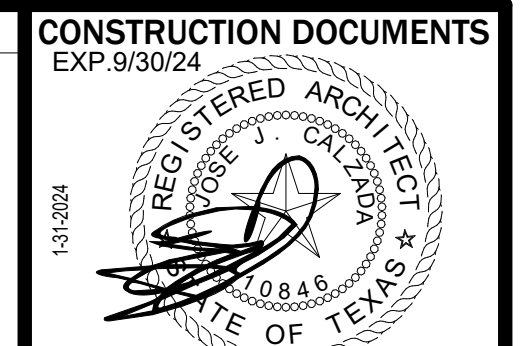
3 PROPOSED FLOOR PLAN - Callout 2
3/16" = 1'-0"

FLOOR PLAN GENERAL NOTES

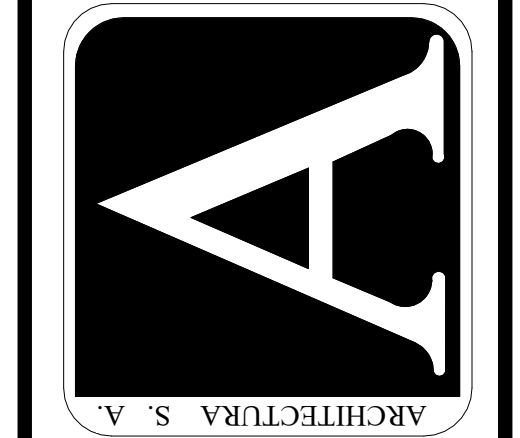
- A. MILLWORK IS INDICATED ON EQUIPMENT & SIGNAGE PLANS
- B. CLASSROOM EQUIPMENT IS INDICATED ON EQUIPMENT & SIGNAGE PLANS
- C. GRID LINES CORRESPOND WITH STRUCTURAL GRID LINES. REFER TO STRUCTURAL PLANS FOR FURTHER INFORMATION. IN CASE OF CONFLICT, CONTACT ARCHITECT PRIOR TO BIDDING.
- D. UNLESS OTHERWISE INDICATED, PLAN DIMENSIONS ARE TO COLUMN GRID ON CENTERLINES, NOMINAL SURFACE OF MASONRY, FACE OF STUDS AND FACE OF CONCRETE WALLS.
- E. REFER TO SYMBOL LEGEND ON SHEET G-001 FOR WINDOW, DOOR, WALL, EQUIPMENT TAGS
- F. WHERE A DOOR IS LOCATED NEAR CORNER OF ROOM AND IS NOT LOCATED BY DIMENSION ON PLAN OR DETAILS, DIMENSION SHALL BE 3" FROM FACE OF WALL TO FACE OF ROUGH OPENING. DIMENSION SHALL BE 6" FROM FACE OF WALL TO EDGE OF ROUGH OPENING AT CONCRETE WALLS.
- G. AT ALL INTERIOR PARTITIONS WHERE PARTITION DOES NOT EXTEND TO ROOF DECK OR FLOOR DECK ABOVE, AND NO INSULATION ABOVE CEILING IS CALLED FOR, BACK LOAD CEILING PANELS WITH LOW-DENSITY FACED FLAME SPREAD R11 BATTS ALONG ENTIRE LENGTH OF PARTITION, FOR A DISTANCE OF 4' FROM THE FACE OF THE PARTITION.
- H. REPETITIVE FEATURES ARE NOT DRAWN IN THEIR ENTIRETY AND SHALL BE COMPLETELY PROVIDED AS IF DRAWN IN FULL.
- I. FURNITURE N.I.C., SHOWN FOR COORDINATION PURPOSES.
- J. TYPICAL CLASSROOM PLAN EQUIPMENT, CASEWORK & MEP TO BE USED IN EVERY CLASSROOM, UNLESS NOTED OTHERWISE.
- K. RE: STRUCTURAL FOR INFORMATION ON FOUNDATIONS, STRUCTURAL COLUMNS, STRUCTURAL FRAMING & METAL DECKS. SOME STRUCTURAL COLUMNS SHOWN FOR COORDINATION PURPOSES. REFER TO STRUCTURAL DRAWINGS FOR FURTHER INFORMATION.
- L. DO NOT SCALE DRAWINGS IF DIMENSIONS ARE IN QUESTION. OBTAIN CLARIFICATION FROM THE ARCHITECT BEFORE CONTINUING THE WORK.
- M. NOTIFY ARCHITECT OF ANY VARIATION REQUIRED IN THE DIMENSIONS NOTES FOR INSTALLATIONS OF EQUIPMENT BEFORE CONTINUING THE WORK.
- N. VERIFY DIMENSIONS BEFORE ORDERING MATERIALS AND PROCEEDING WITH THE WORK.
- O. PROVIDE BLOCKING AS REQUIRED FOR PROPER SUPPORT OF WALL AND CEILING MOUNTED EQUIPMENT.
- P. REFER TO SHEET A-602 FOR ROOM SIGNAGE LEGEND, INTERIOR SIGNAGE MOUNTING AND SIGNAGE NOTES.
- Q. REFER TO SHEET A-401 FOR TOILET ROOM ACCESSORIES & PLUMBING FIXTURE MOUNTING HEIGHT SCHEDULE.
- R. REFER TO SPECIFICATIONS SECTION 099000 PAINTING & COATING.
- S. ALL CMU EXPOSED CORNERS TO BE BULLNOSE, TYP.

DEMOLITION LEGEND

- CEILING GRID & TILE TO BE DEMOLISHED
- WALLS TO BE DEMOLISHED
- EXISTING WALL TO REMAIN

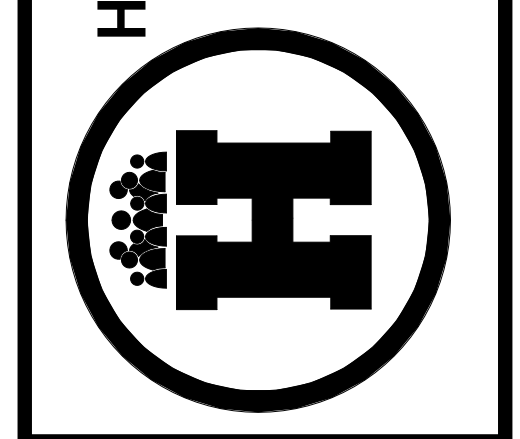


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ARCHITECTURE INTERIOR DESIGN PLANNING
17038 REDLAND RD., SUITE 101, SAN ANTONIO, TEXAS 78247
t. 210.384.8200 f. 210.319.3555
architecturasai@yahoo.com

HISD CAREER TECHNOLOGY EDUCATION (CTE)
HARLANDALE INDEPENDENT SCHOOL DISTRICT
519 W HARDING BLVD.
SAN ANTONIO, TX 78221



Drawn By: VMC
Checked By: SAV
Job Number: 23-09

CTE ADMINISTRATION
ENLARGED PLANS

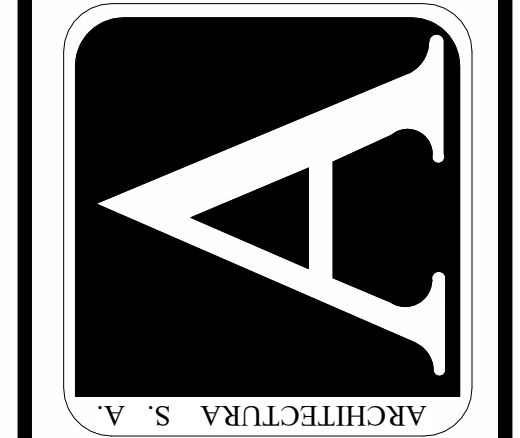
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Date: 01/31/2024

Drawing No:
A-407

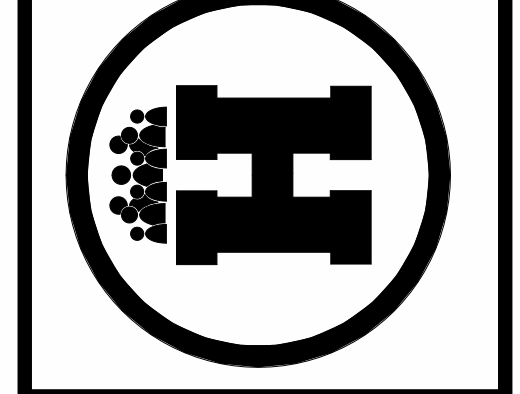


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architecturasai@yahoo.com

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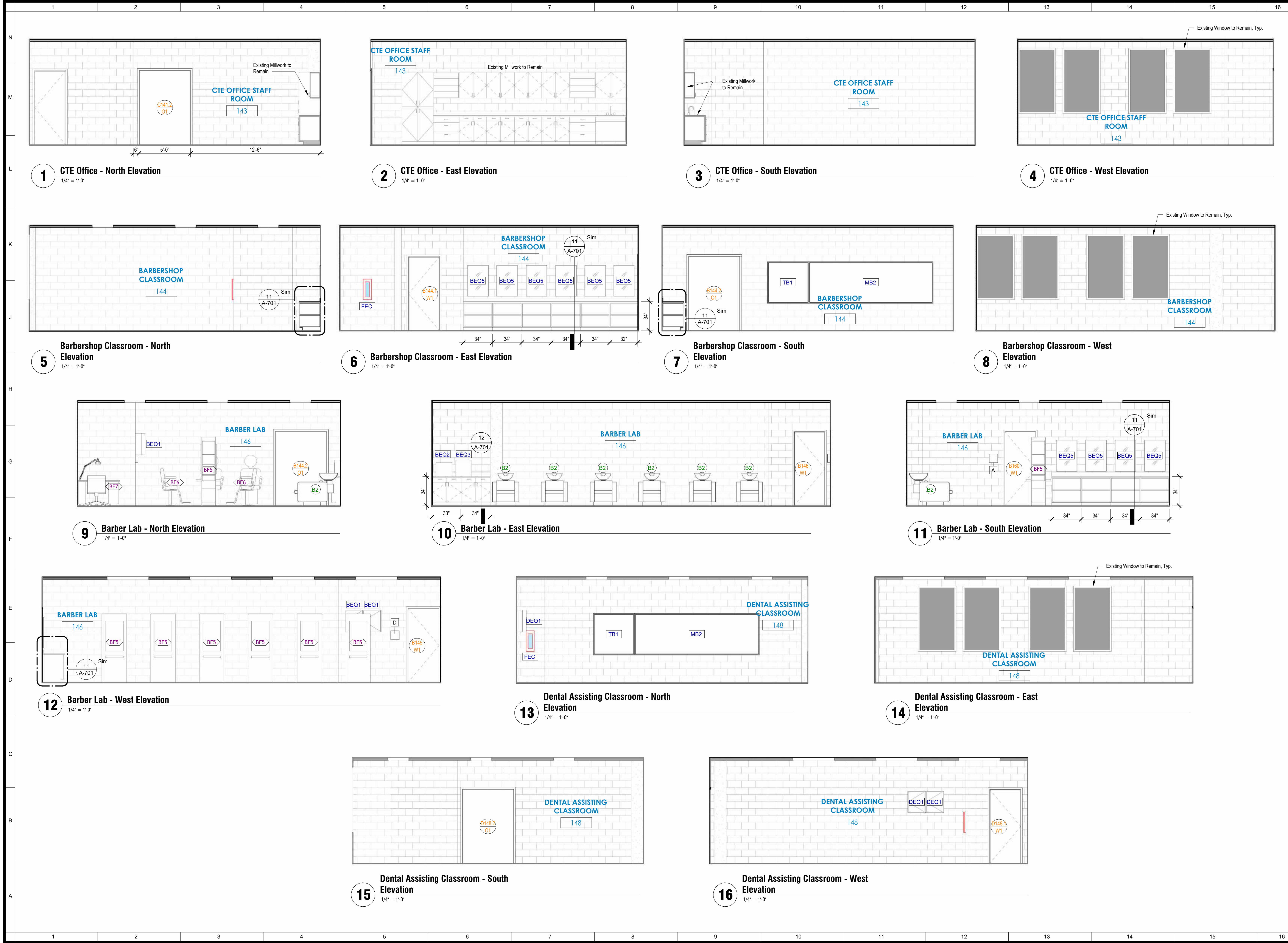
INTERIOR ELEVATIONS

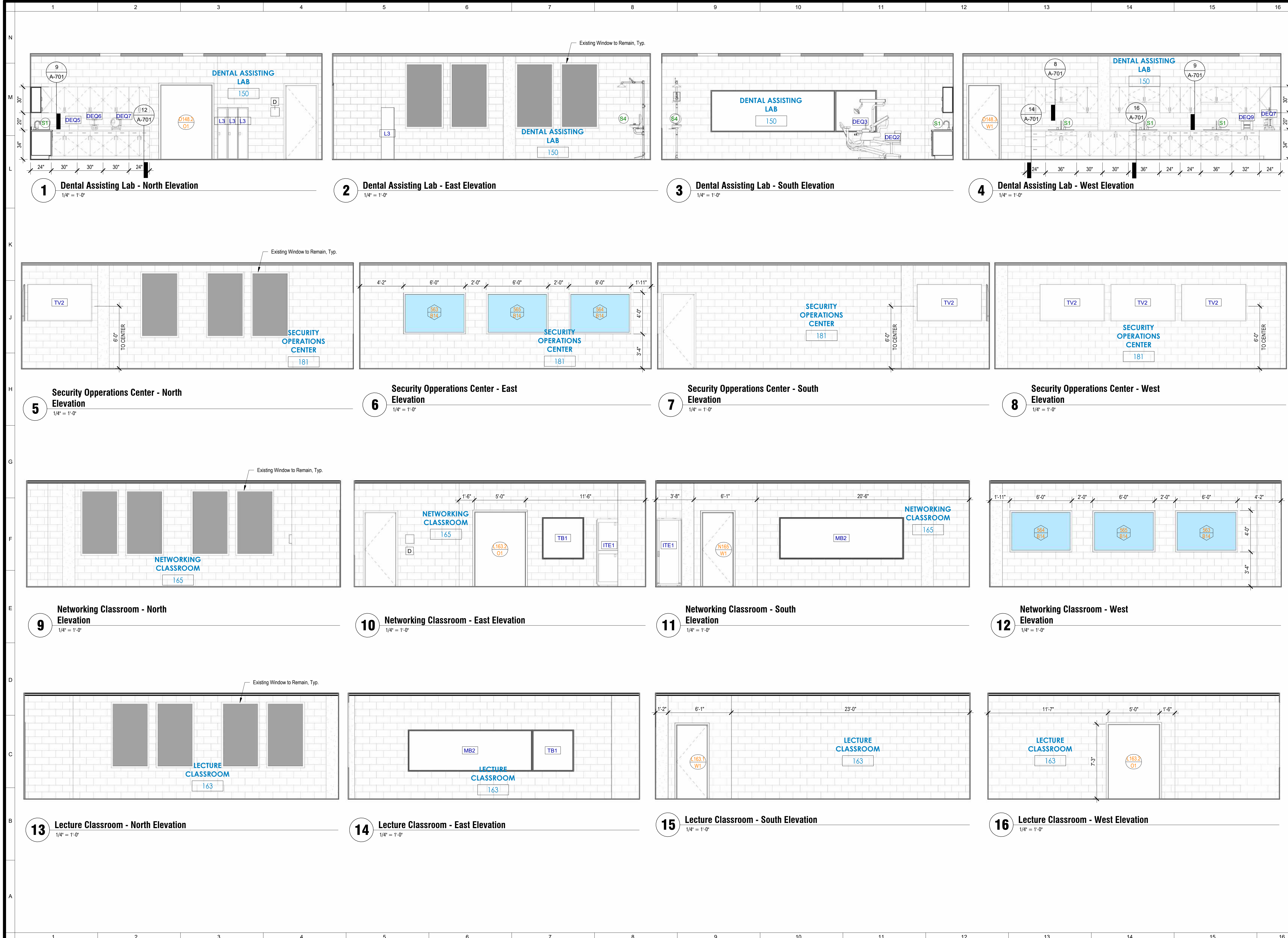
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Date: 01/31/2024

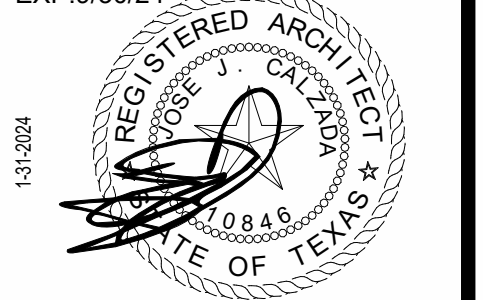
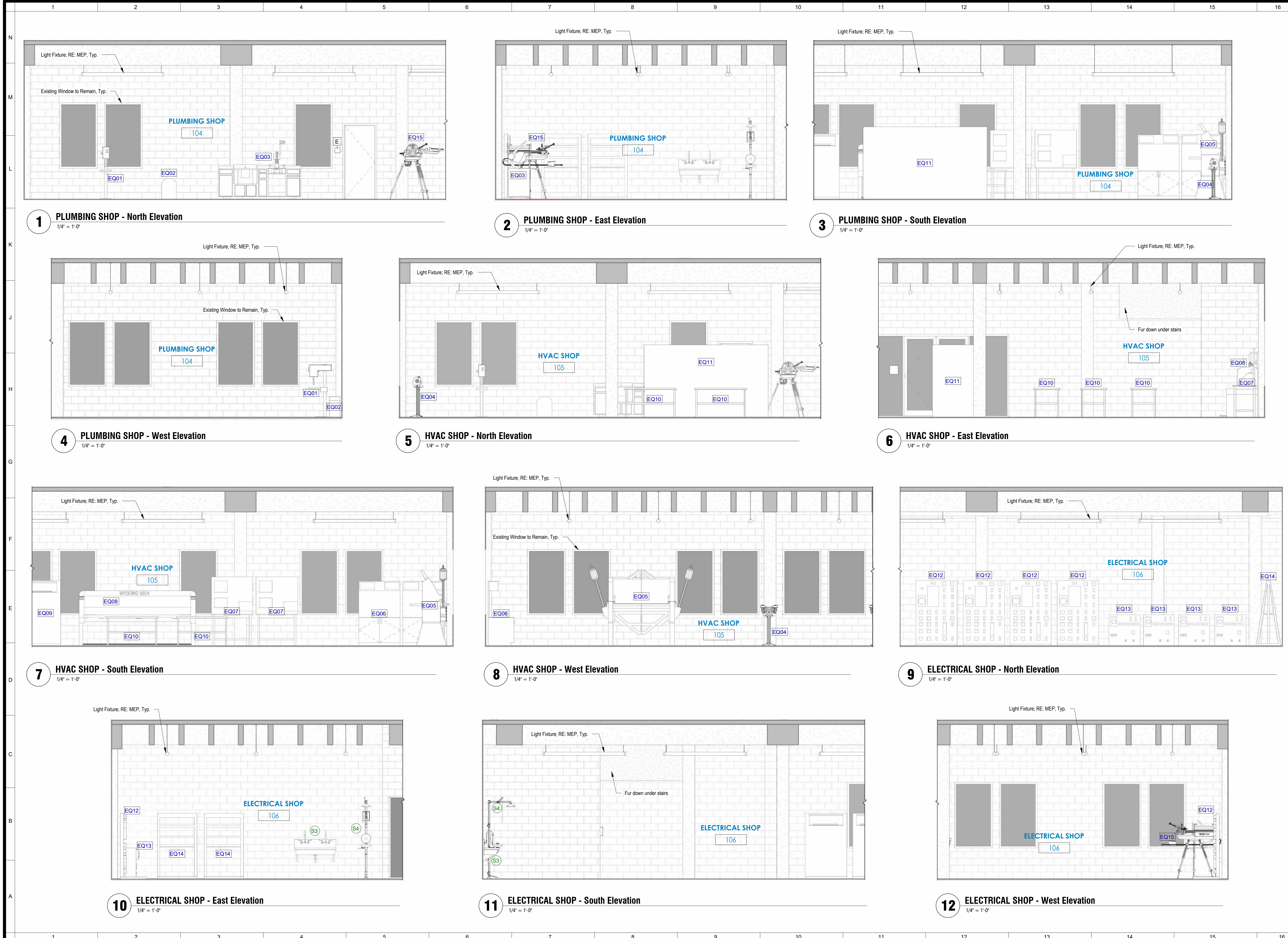
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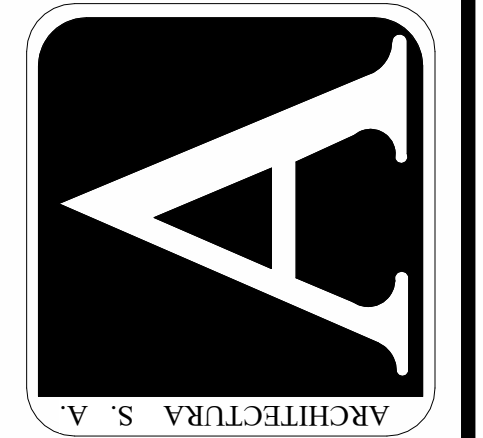




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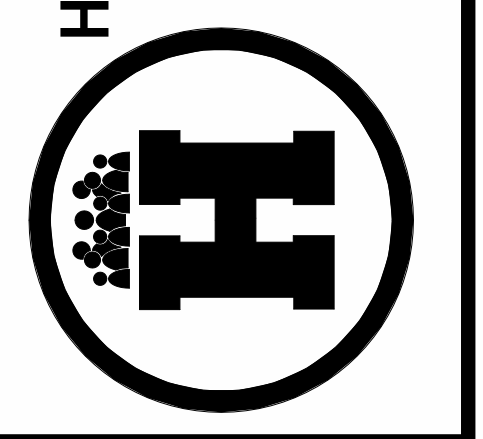


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ARCHITECTURE INTERIOR DESIGN PLANNING
17038 REDLAND RD., SUITE 101, SAN ANTONIO, TEXAS 78247
t. 210.384.8200 f. 210.319.3555
architecturasa@yahoo.com

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Drawn By: VMC
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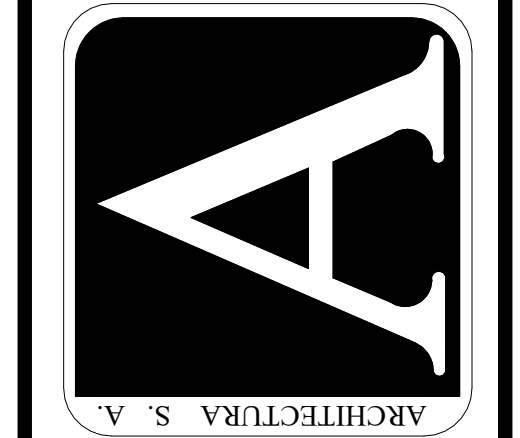
INTERIOR ELEVATIONS

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Date: 01/31/2024
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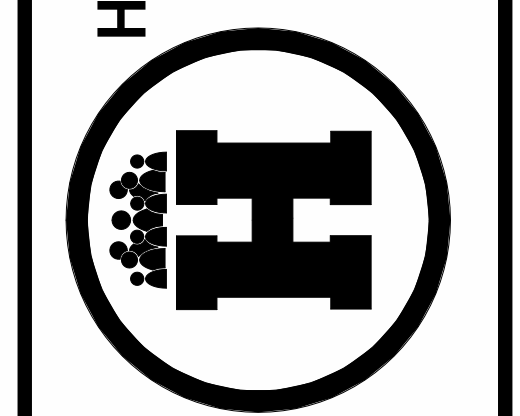


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ARCHITECTURE INTERIOR DESIGN PLANNING
17038 REDLAND RD., SUITE 101, SAN ANTONIO, TEXAS 78247
t. 210.384.8200 f. 210.319.3555
architecturasa@yahoo.com

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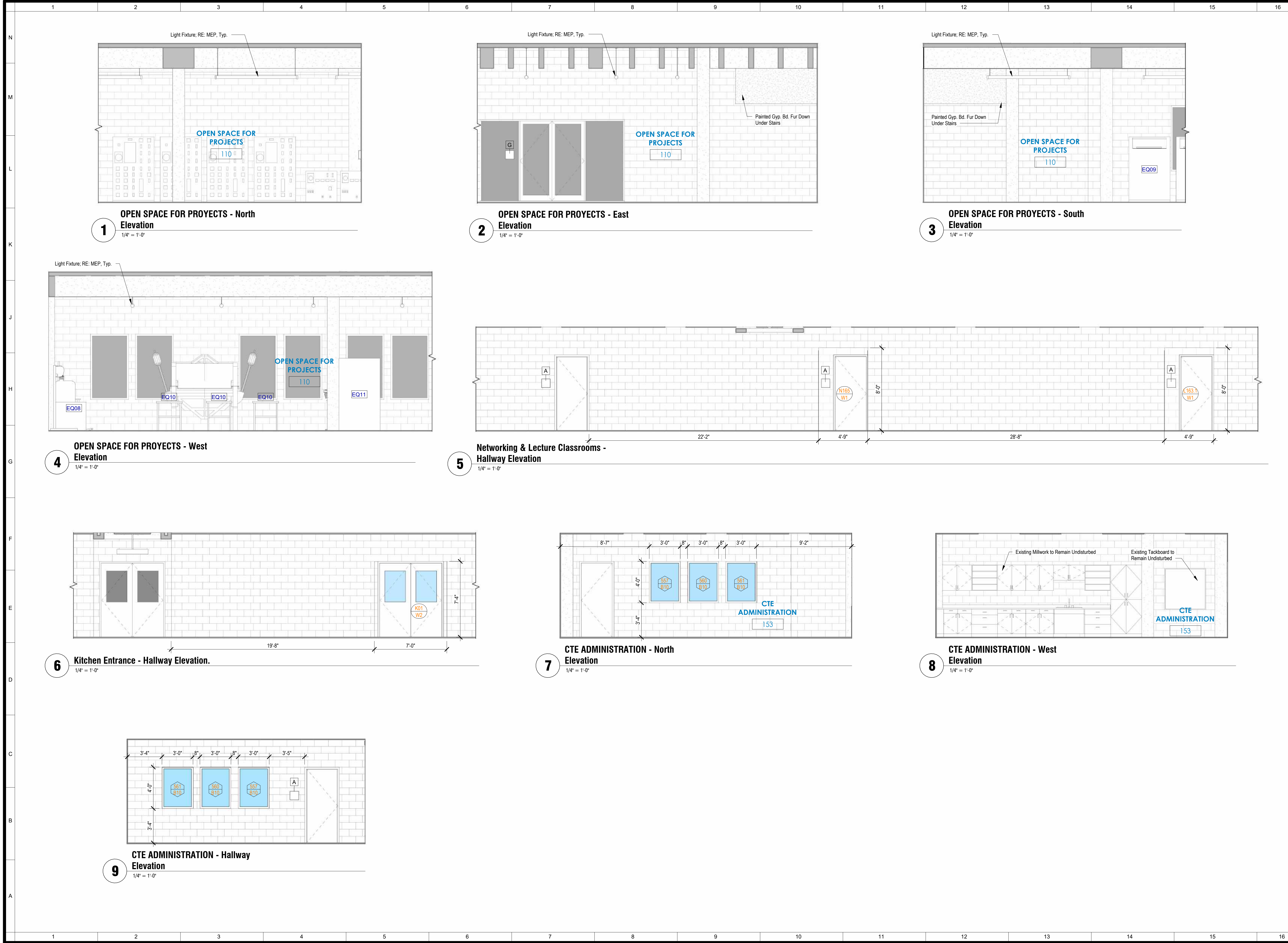
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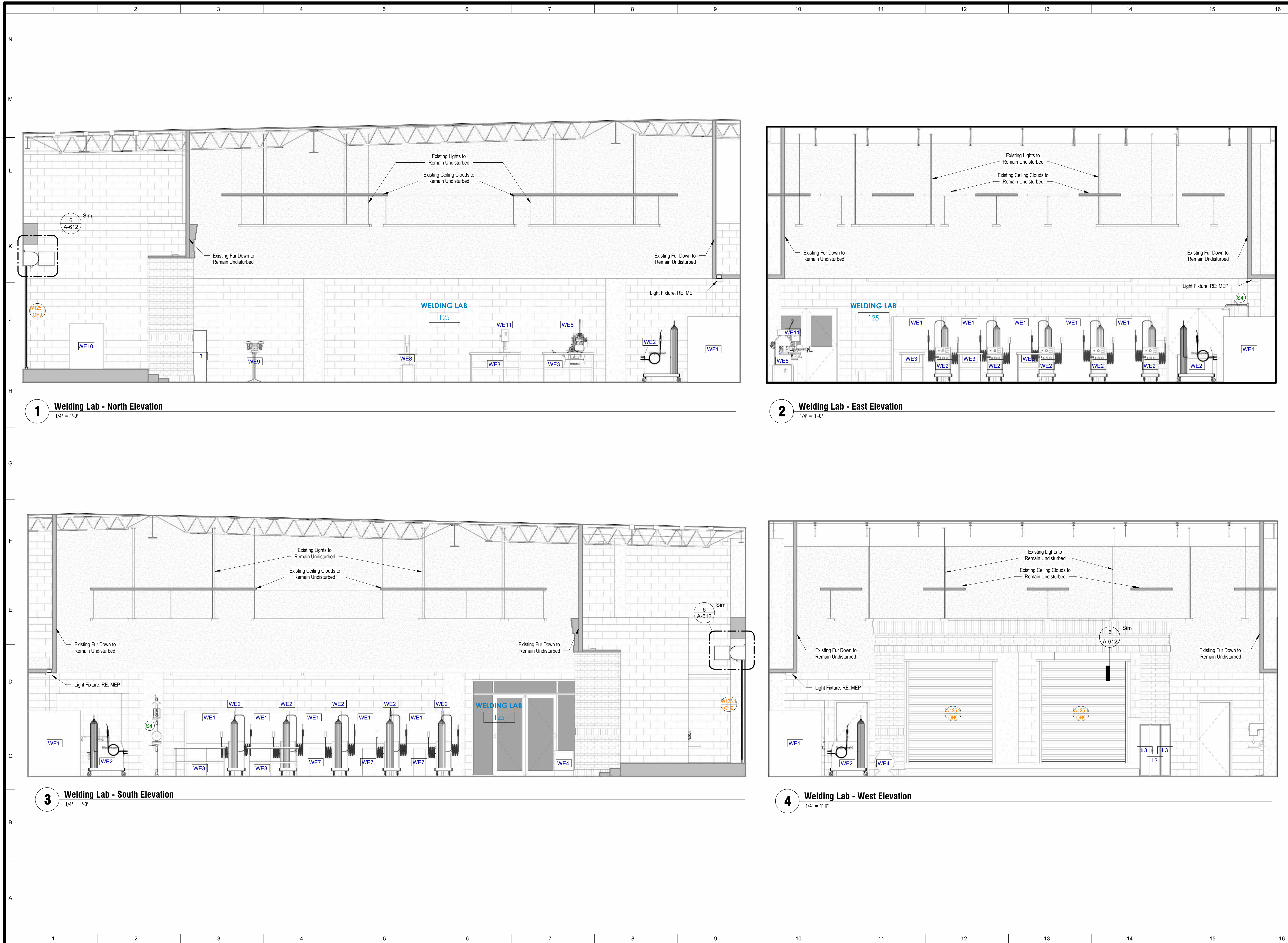
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Date: 01/31/2024

Drawing No:

A-413





1 Welding Lab - North Elevation
1/4" = 1'-0"

2 Welding Lab - East Elevation
1/4" = 1'-0"

3 Welding Lab - South Elevation
1/4" = 1'-0"

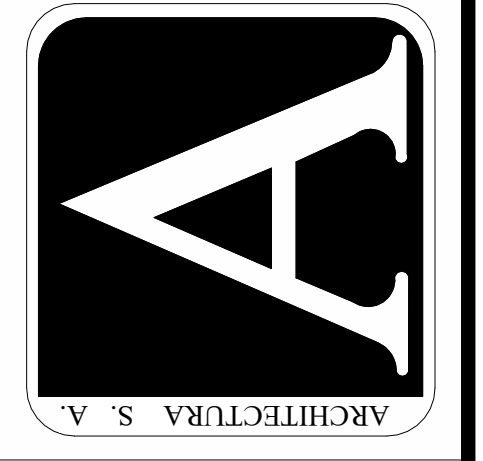
4 Welding Lab - West Elevation
1/4" = 1'-0"

CONSTRUCTION DOCUMENTS
EXP. 9/30/24

1312024

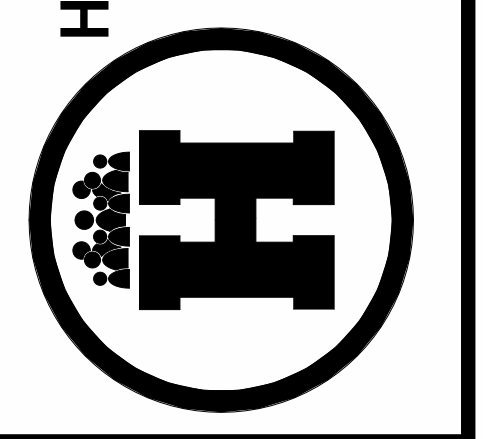
REGISTERED ARCHITECT
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10848
STATE OF TEXAS

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17038 REDLAND RD., SUITE 101, SAN ANTONIO, TEXAS 78247
t. 210.384.8200 f. 210.319.3555
architecturasai@yahoo.com

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INTERIOR ELEVATIONS

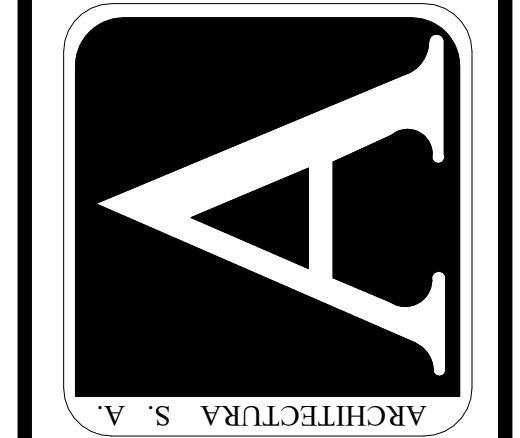
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Date: 01/31/2024
Drawing No:

A-414

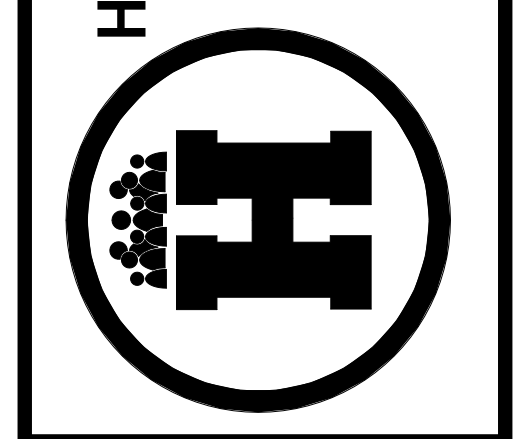


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ARCHITECTURE INTERIOR DESIGN PLANNING
17038 REDLAND RD., SUITE 101, SAN ANTONIO, TEXAS 78247
t. 210.384.8200 f. 210.319.3555
architecturasai@yahoo.com

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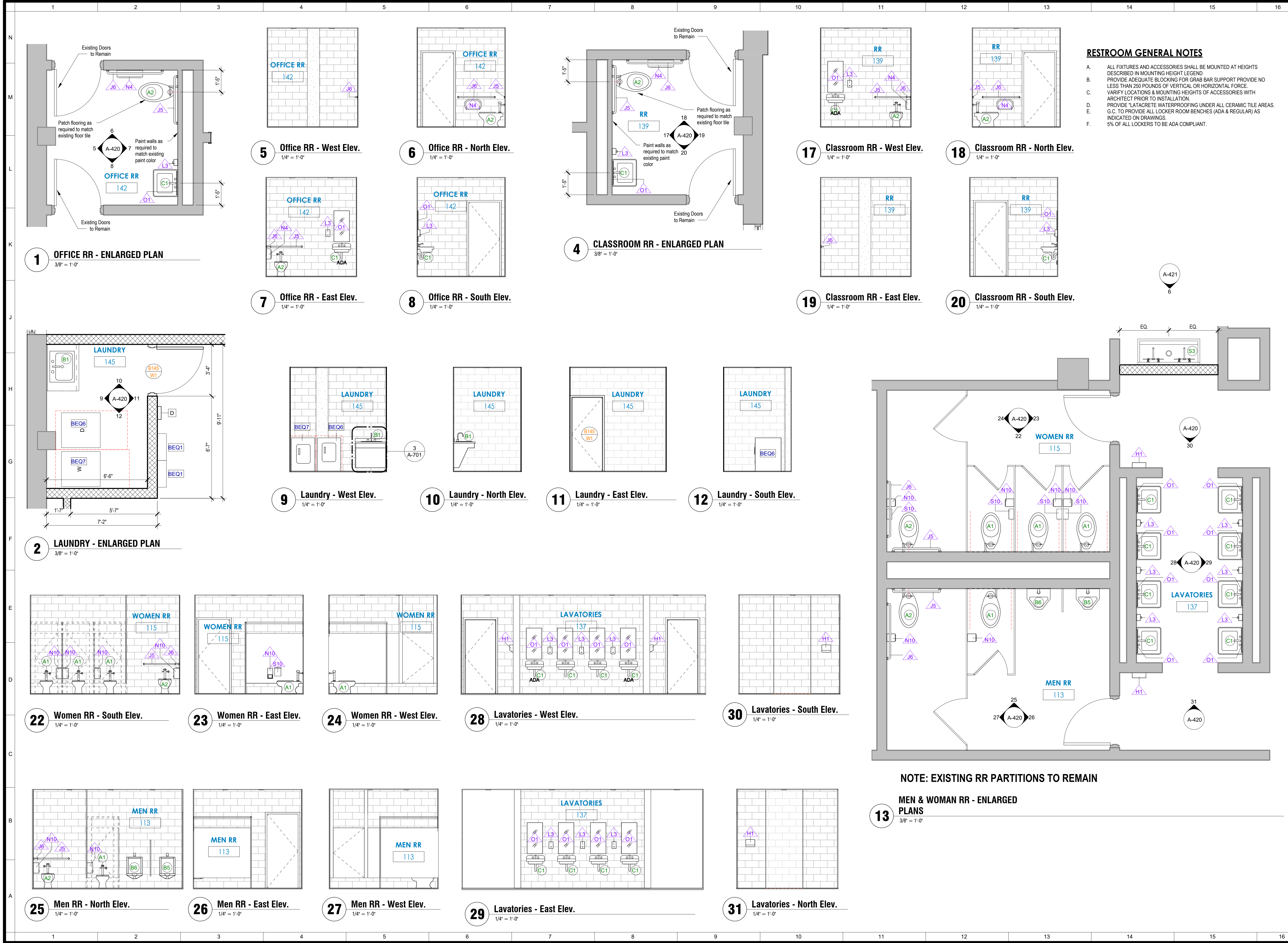
RR PLANS & ELEVATIONS

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Date: 01/31/2024

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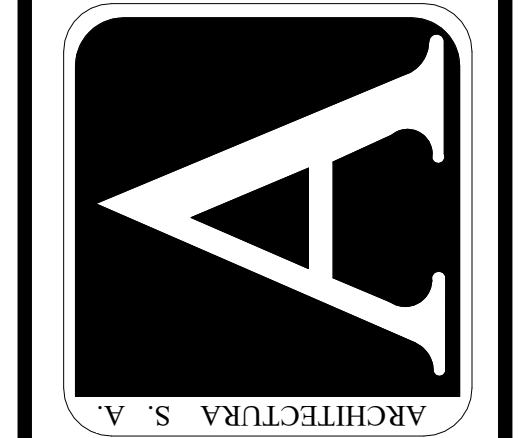
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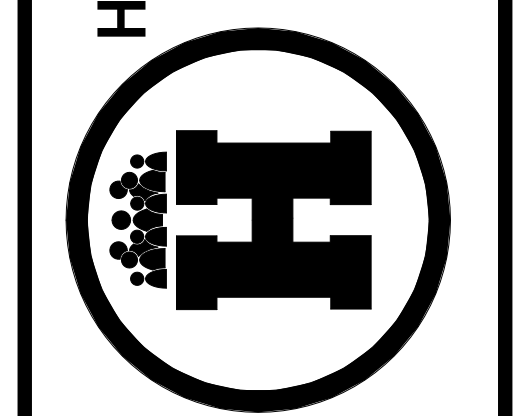


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t. 210.384.8200 f. 210.319.3555
architecturasa@yahoo.com

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Job Number: 23-09

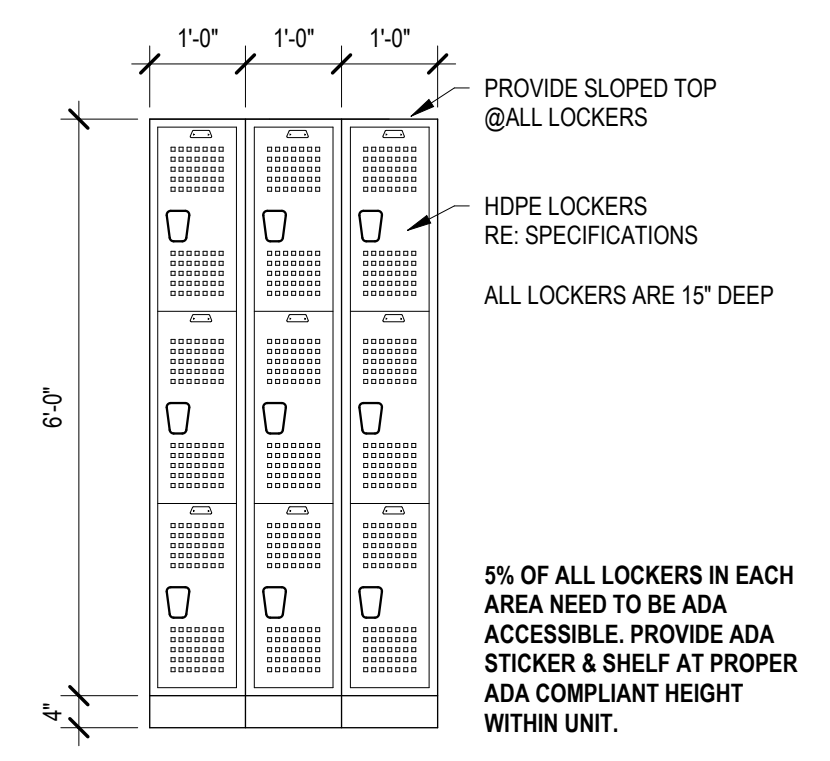
RR PLANS & ELEVATIONS

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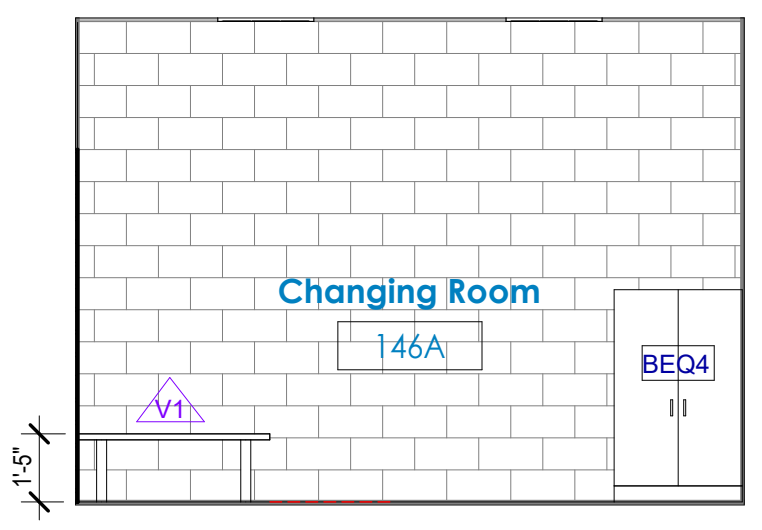
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Drawing No:

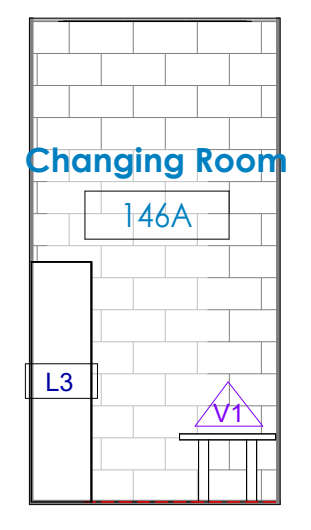
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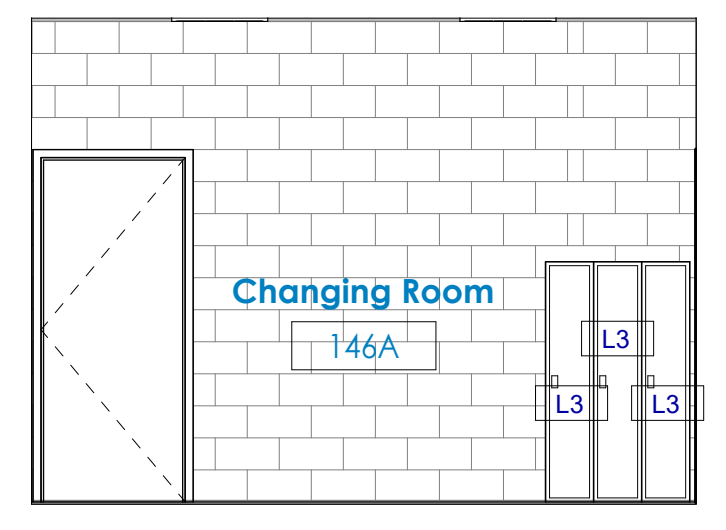
5 Lockers - 3 Tier
1/2" = 1'-0"



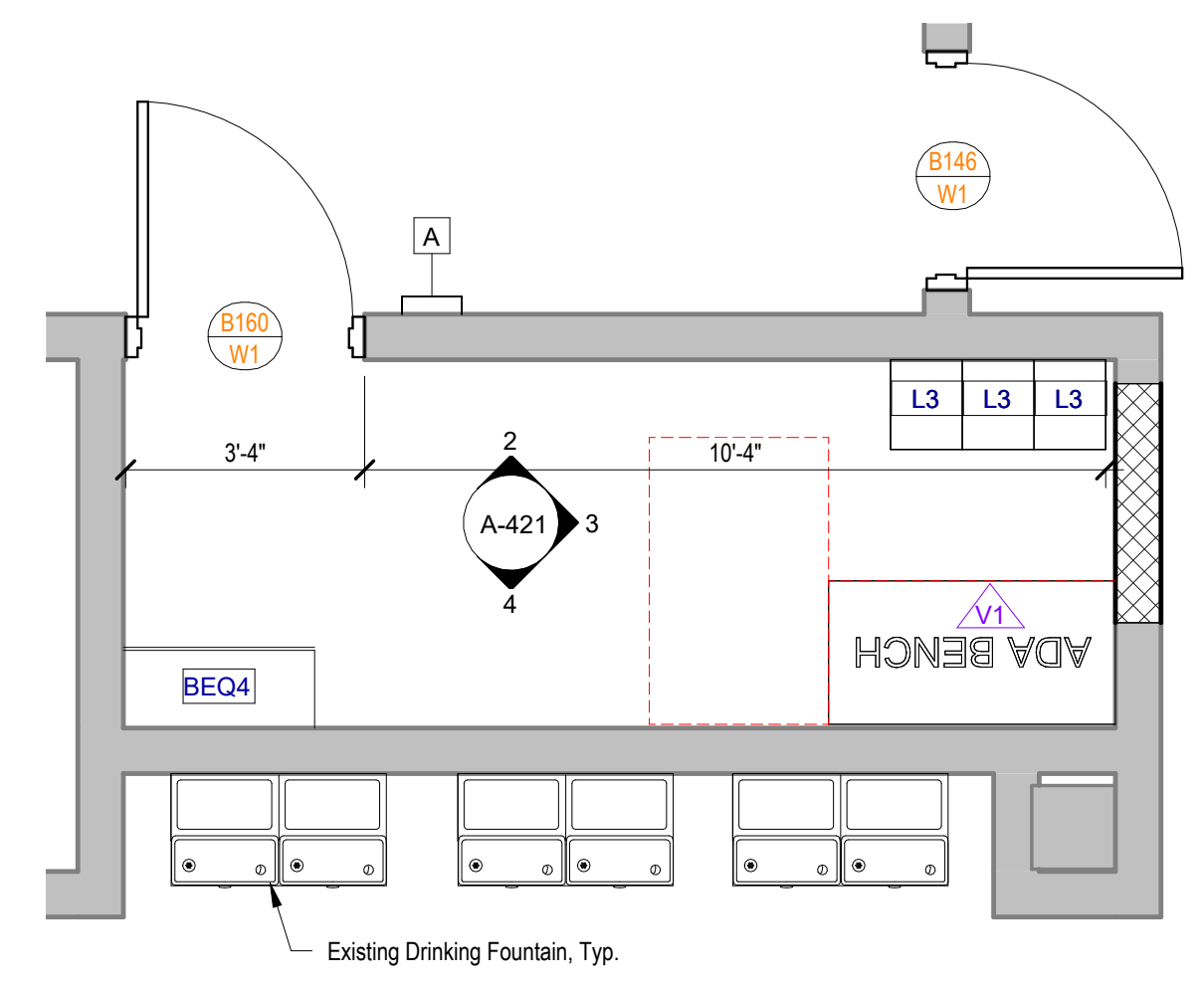
4 Changing Room - South Elev.
1/4" = 1'-0"



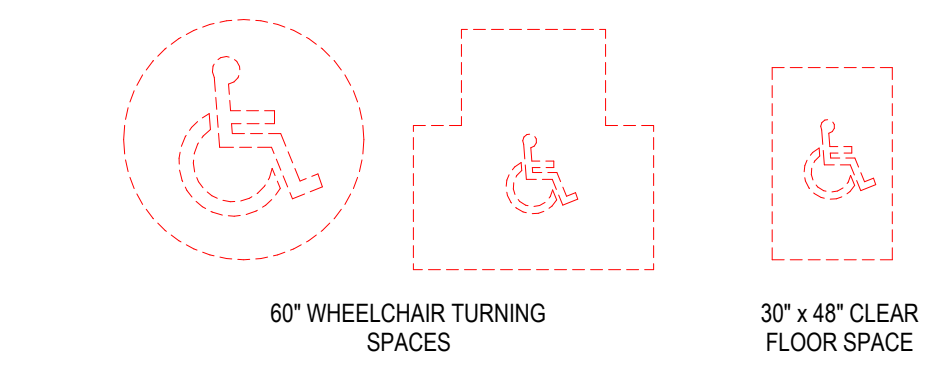
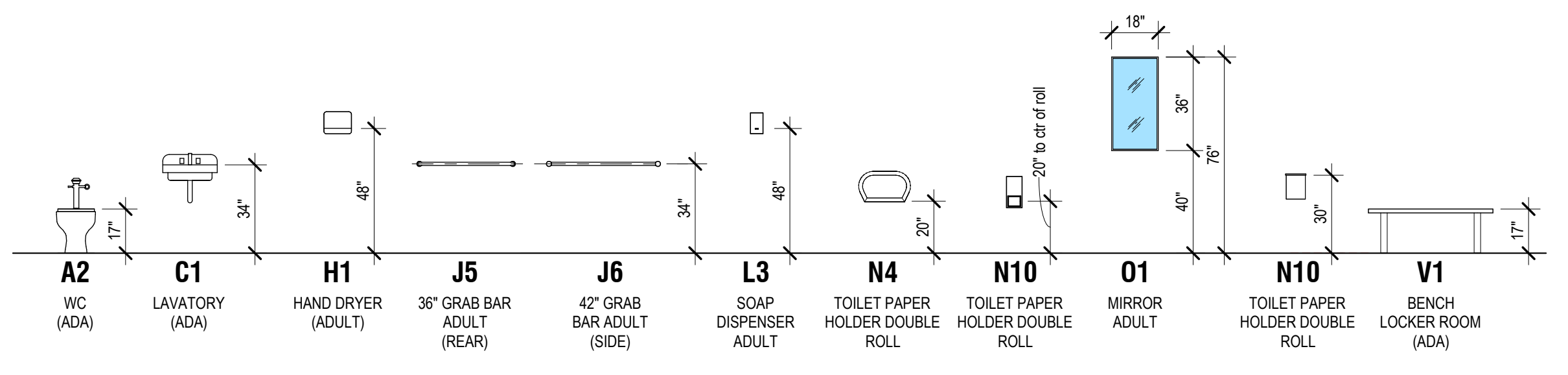
3 Changing Room - East Elev.
1/4" = 1'-0"



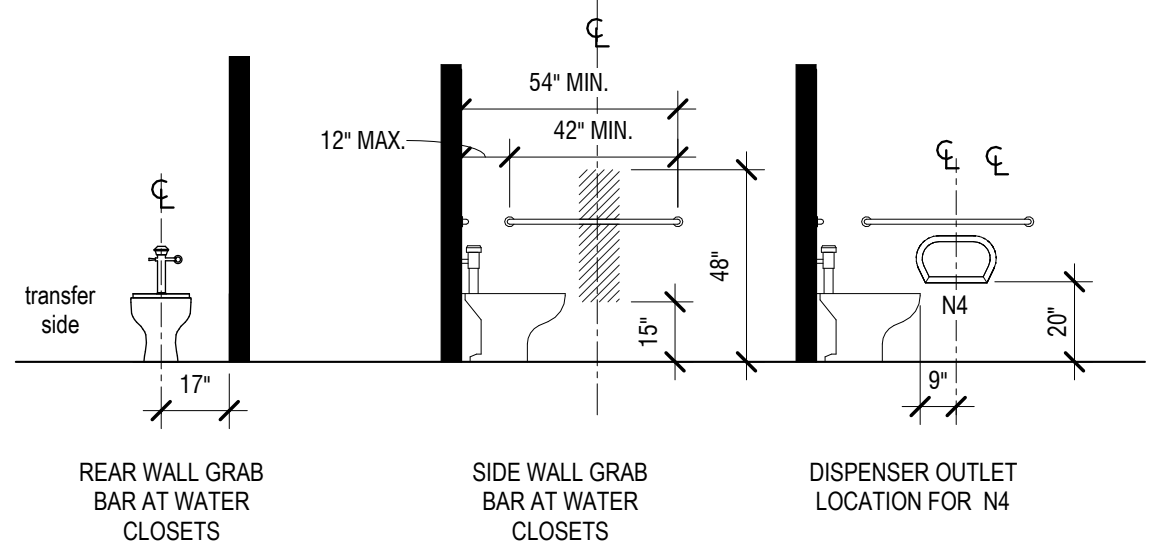
2 Changing Room - North Elev.
1/4" = 1'-0"



1 CHANGING ROOM - ENLARGED PLAN
3/8" = 1'-0"



PLUMBING FIXTURE & ACCESSORY MOUNTING HEIGHTS
1/4" = 1'-0"



BARBER CLASSROOM & LAB SPECIALTY EQUIPMENT SCHEDULE

| Type Mark | Description | Count | Responsibility |
|-----------|---------------------------------------|-------|----------------|
| BEQ4 | Guardian 9 Wig Dryer Commercial Model | 1 | O.P.O.I |

APPLIANCES SCHEDULE

| Type Mark | Description | Count | Responsibility |
|-----------|---|-------|----------------|
| BEQ6 | 7.3 cu.ft. Rear Control Top Load Dryer with TurboSteam - LG Laundry - DLEX7900BE/DLGX79018E | 1 | C.P.C.I. |
| BEQ7 | 5.5 cu.ft. Top Load Washer with TurboWash3D - LG Laundry - WT7900HBA | 1 | C.P.C.I. |

PLUMBING FIXTURE SCHEDULE

| Type Mark | Description | ADA | Specification | Comments |
|-----------|--|----------|-----------------------------|----------|
| A1 | Water Closet - Floor Mounted - Adult | No | refer to MEP | C.P.C.I. |
| A2 | Water Closet - Floor Mounted - Adult ADA | Yes | refer to MEP | C.P.C.I. |
| C1 | Wall-Hung Lavatory (Adult) | <varies> | refer to MEP | C.P.C.I. |
| S1 | Sink | Yes | refer to MEP Specifications | C.P.C.I. |

LOCKER SCHEDULE

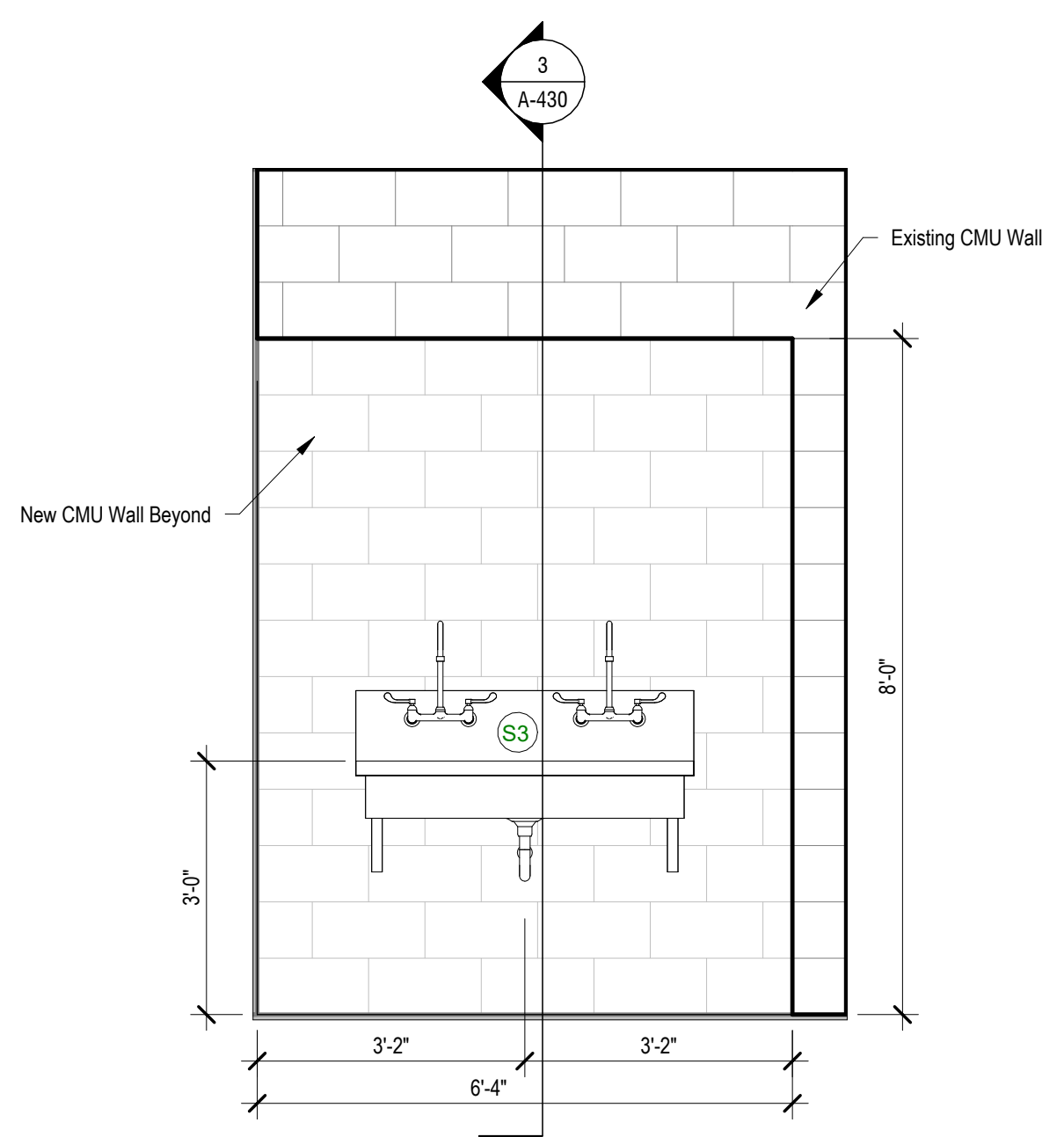
| Locker Type Mark | # of Tiers | Width | Depth | Height |
|------------------|------------|-------|-------|--------|
| L3 | 3 | 12" | 15" | 60" |

GENERAL EQUIPMENT NOTES

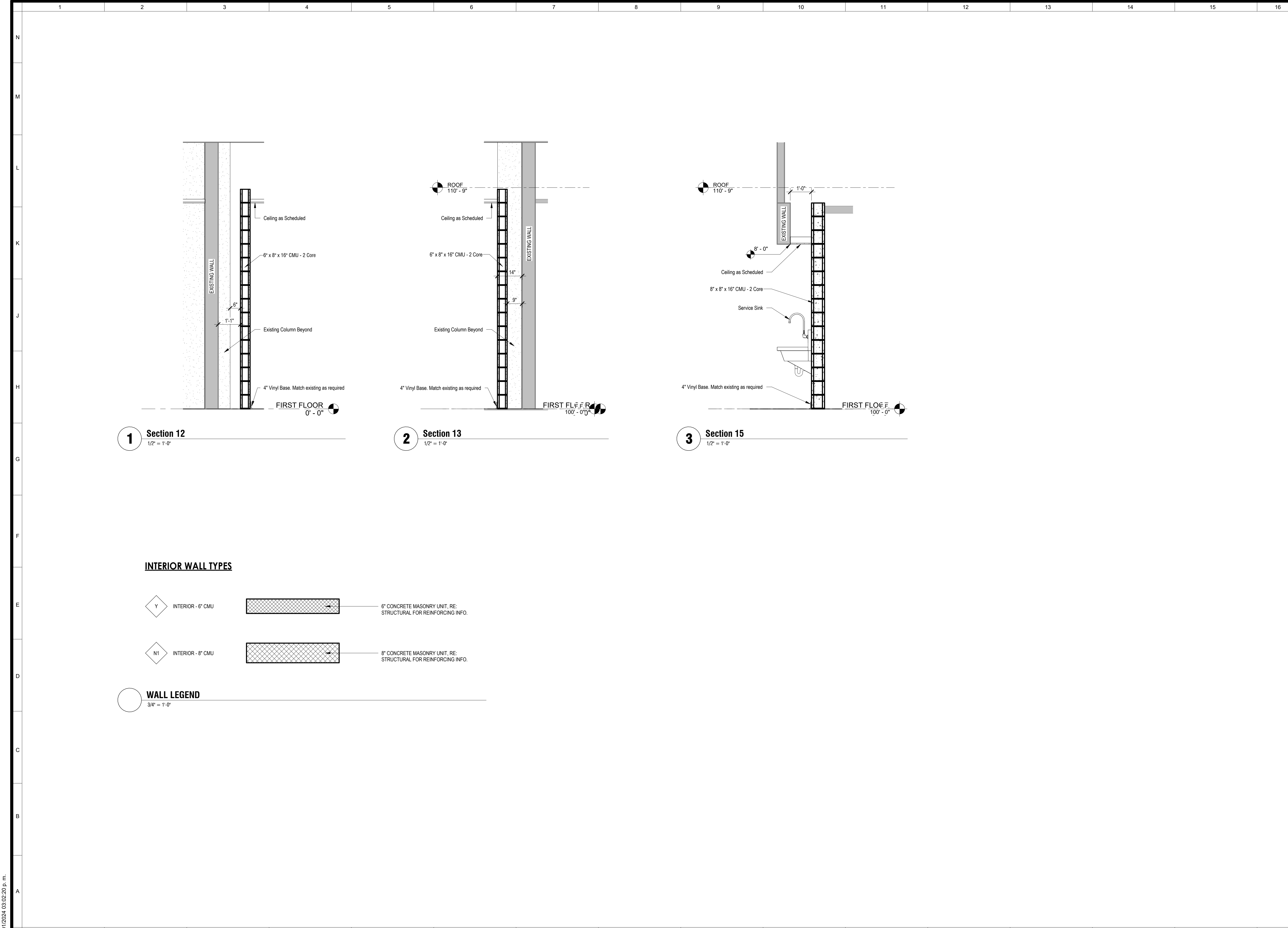
- OPOI = OWNER PROVIDED/OWNER INSTALLED
- CPCI = CONTRACTOR PROVIDED/CONTRACTOR INSTALLED
- OPCI = OWNER PROVIDED/CONTRACTOR INSTALLED
- G.C. TO INCLUDE ALL LABOR COSTS INCLUDING LIFT RENTAL IF NECESSARY.
- WHEN BASIS OF DESIGN INDICATED ON SCHEDULE; "OR EQUAL" PRODUCTS WILL BE ACCEPTED BUT ARE TO BE APPROVED BY ARCHITECT DURING SUBMITTAL PROCESS. REFER TO SPECIFICATIONS SECTION TITLED "SUBMITTAL PROCEDURES" FOR FURTHER INFORMATION.

RESTROOM ACCESSORY SCHEDULE

| Type | Description | Basis of Design | | Responsibility |
|------|--|---------------------------------|---|----------------|
| | | Manufacturer | Model | |
| H1 | Surface Mounted Hand Dryer (Adult) | American Specialties, Inc. | 0199-3-93 Turbo-Pro High Speed ADA Hand Dryer | C.P.C.I. |
| J5 | 36" Grab Bar | American Specialties, Inc. | 10-3801-36 | C.P.C.I. |
| J6 | 42" Grab Bar | American Specialties, Inc. | 10-3801-42 | C.P.C.I. |
| L3 | Soap Dispenser (Adult) | American Specialties, Inc. | 0347 Vertical Soap Dispenser B-2892 | C.P.C.I. |
| N4 | Bubork B-2892 Classic Series Surface Mounted Twin Jumbo-Roll Toilet Tissue Dispenser | Bubork Washroom Equipment, Inc. | B-2892 | C.P.C.I. |
| N10 | Surface Mounted Multi-Roll Toilet Tissue Dispenser | American Specialties, Inc. | 9030 Profile Toilet Tissue Dispenser, Twin Roll - Surface Mounted | C.P.C.I. |
| O1 | Mirror: 18" Wide x 36" High (Adult) | American Specialties, Inc. | 0600-B1836 Stainless Steel Inter-Lok Angle Frame Mirror | C.P.C.I. |
| S10 | Sanitary Napkin Disposal | American Specialties, Inc. | 20852 Surface Mounted Sanitary Napkin Disposal | C.P.C.I. |
| V1 | ADA Locker Bench 4'L x 2'W x 17'H | WB Manufacturing | LBSBK724048 | C.P.C.I. |



6 Welding Lab Service Sink Elev.
1/2" = 1'-0"

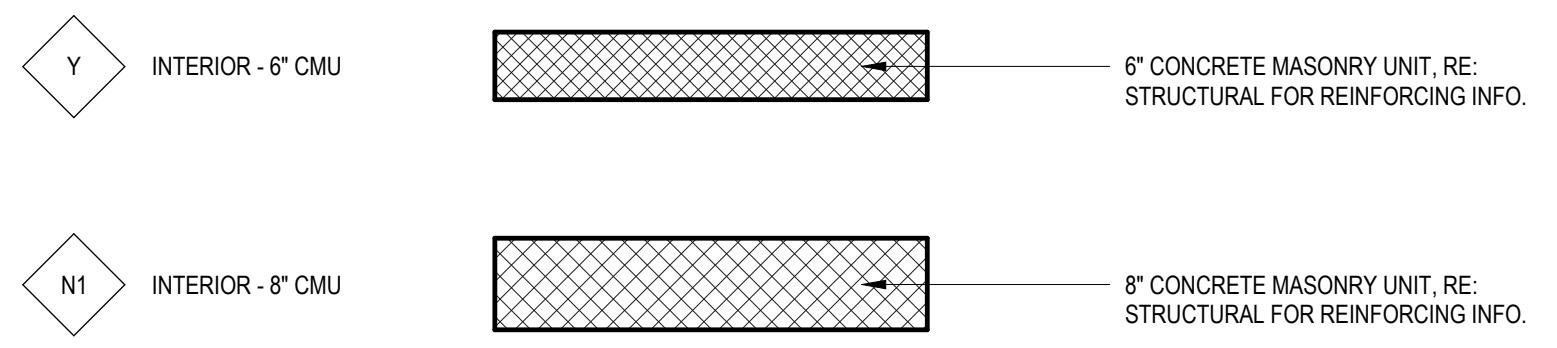


1 Section 12
1/2" = 1'-0"

2 Section 13
1/2" = 1'-0"

3 Section 15
1/2" = 1'-0"

INTERIOR WALL TYPES



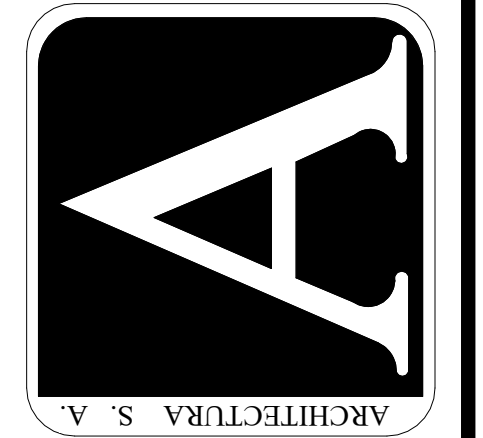
WALL LEGEND
3/4" = 1'-0"

CONSTRUCTION DOCUMENTS
EXP. 9/30/24

1312024

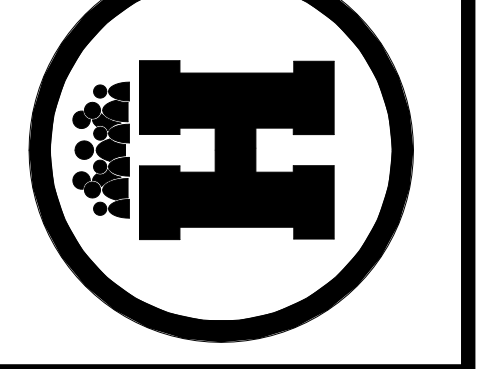
REGISTERED ARCHITECT
JOSE L. CALZADA
10848
STATE OF TEXAS

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t. 210.384.8200 f. 210.319.3555
architecturass@yahoo.com

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SAN ANTONIO, TX 78221



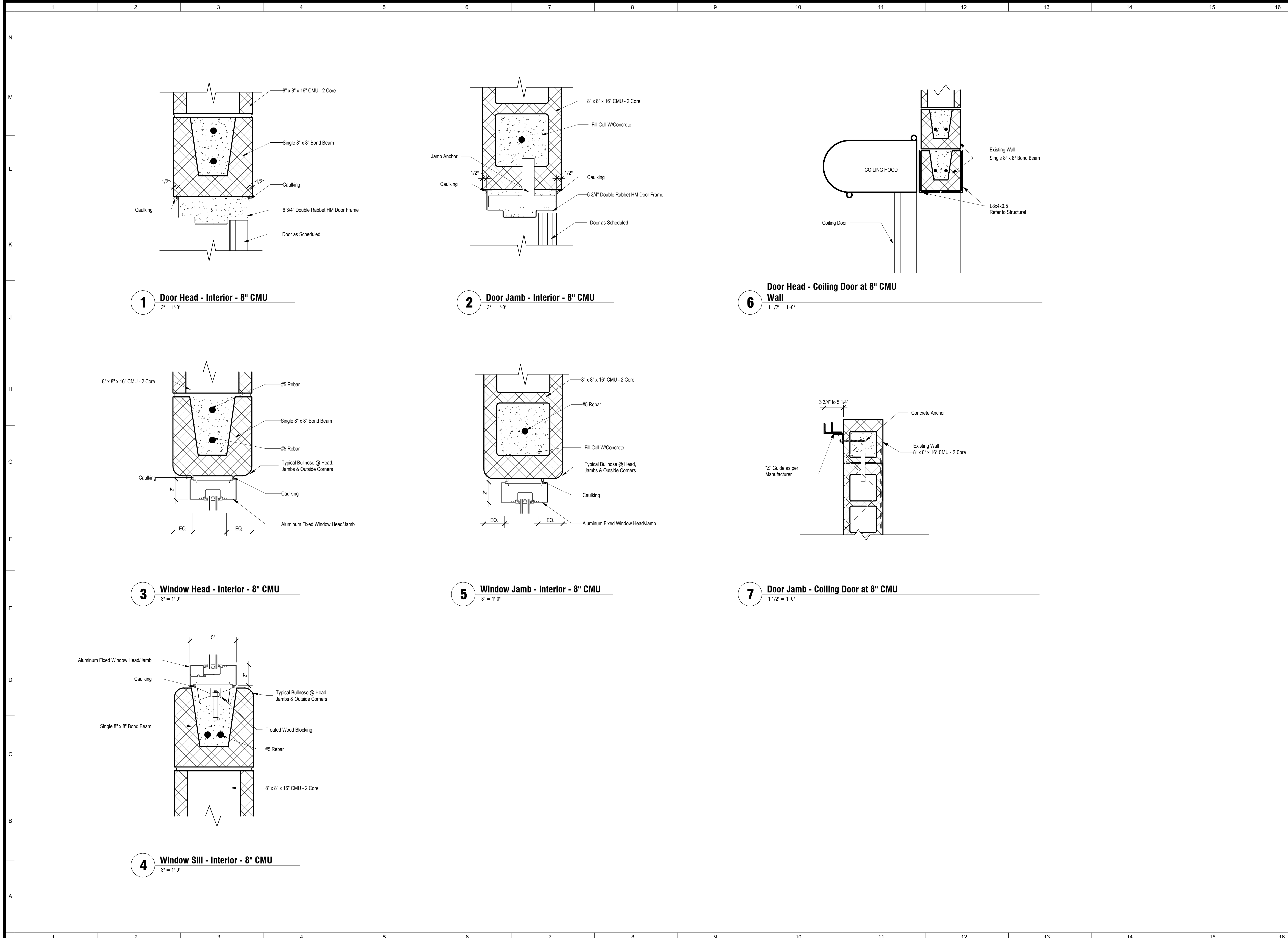
Drawn By: VMC
Checked By: SAV
Job Number: 23-09

WALL SECTIONS

| No. | DATE | DESCRIPTION |
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Date: 01/31/2024
Drawing No:

A-430



1 Door Head - Interior - 8" CMU
3' = 1'-0"

2 Door Jamb - Interior - 8" CMU
3' = 1'-0"

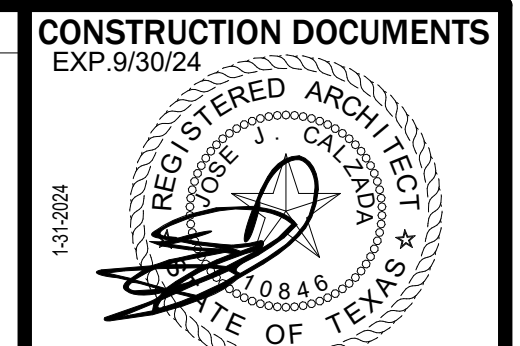
6 Door Head - Coiling Door at 8" CMU Wall
1 1/2" = 1'-0"

3 Window Head - Interior - 8" CMU
3' = 1'-0"

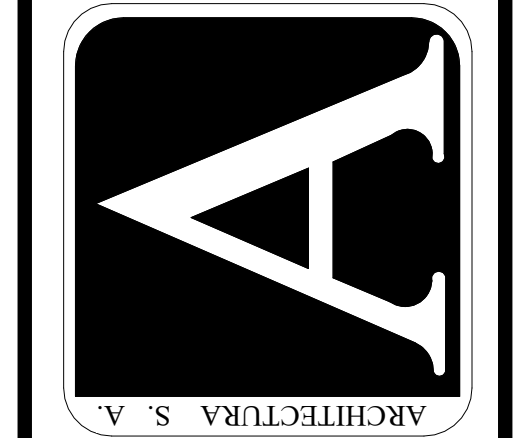
5 Window Jamb - Interior - 8" CMU
3' = 1'-0"

7 Door Jamb - Coiling Door at 8" CMU
1 1/2" = 1'-0"

4 Window Sill - Interior - 8" CMU
3' = 1'-0"

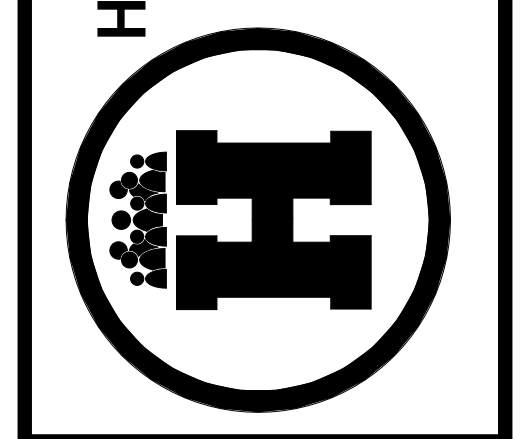


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ARCHITECTURA S.A., INC.
ARCHITECTURE INTERIOR DESIGN PLANNING
17038 REDLAND RD., SUITE 101, SAN ANTONIO, TEXAS 78247
t. 210.384.8200 f. 210.319.3555
architecturasai@yahoo.com

HISD CAREER TECHNOLOGY EDUCATION (CTE)
HARLANDALE INDEPENDENT SCHOOL DISTRICT
519 W HARDING BLVD.
SAN ANTONIO, TX 78221



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Checked By: SAV
Job Number: 23-09

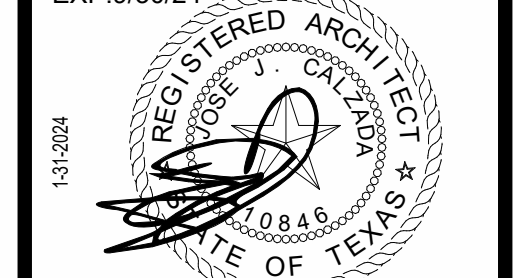
DOOR & WINDOW DETAILS

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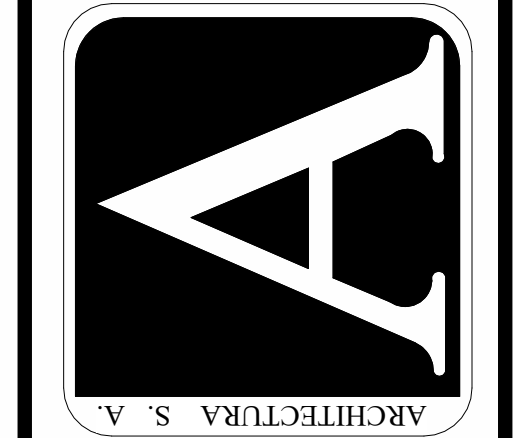
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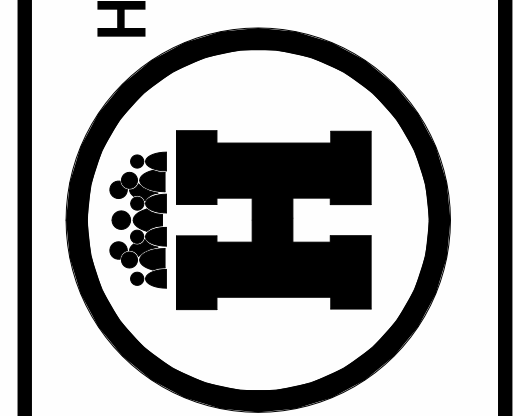


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17038 REDLAND RD., SUITE 101, SAN ANTONIO, TEXAS 78247
t. 210.384.8200 f. 210.319.3555
architecturasa@yahoo.com

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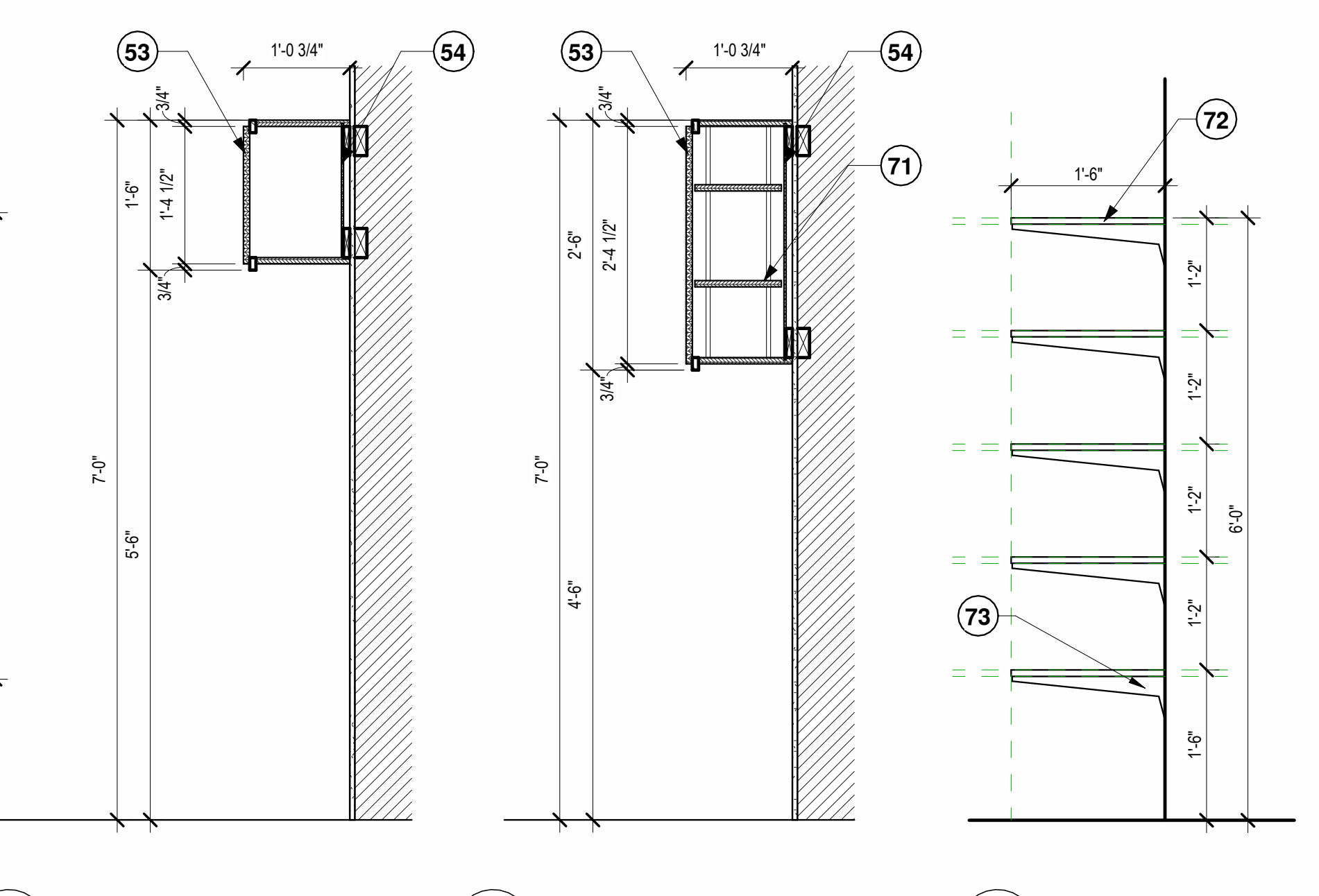
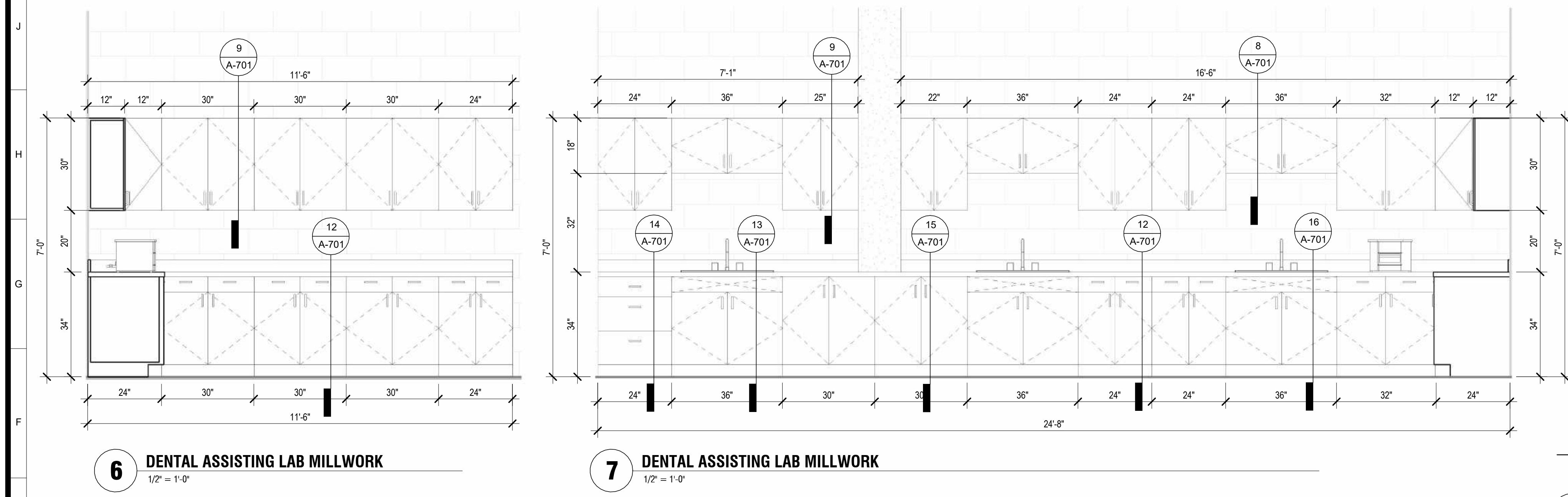
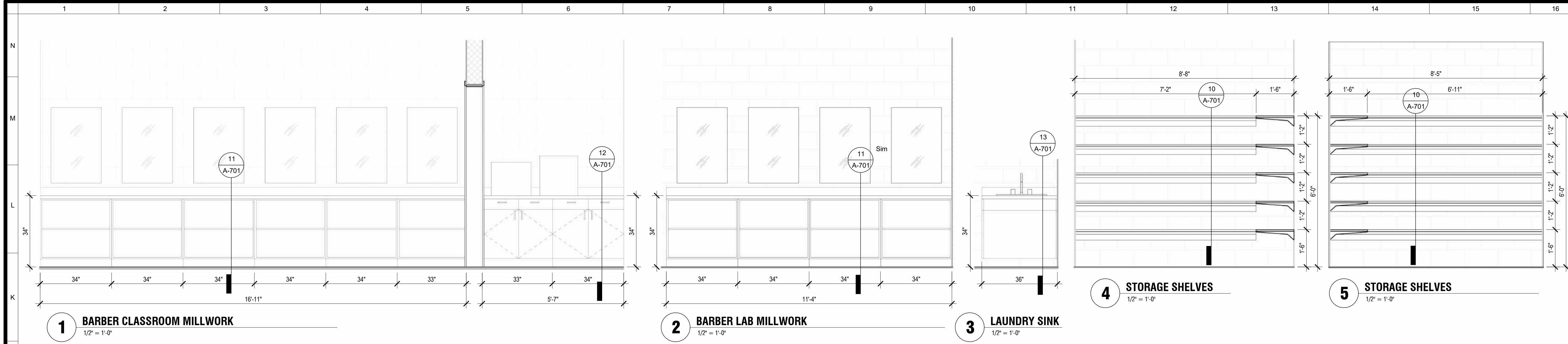
MILLWORK ELEVS & DETAILS

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Date: 01/31/2024

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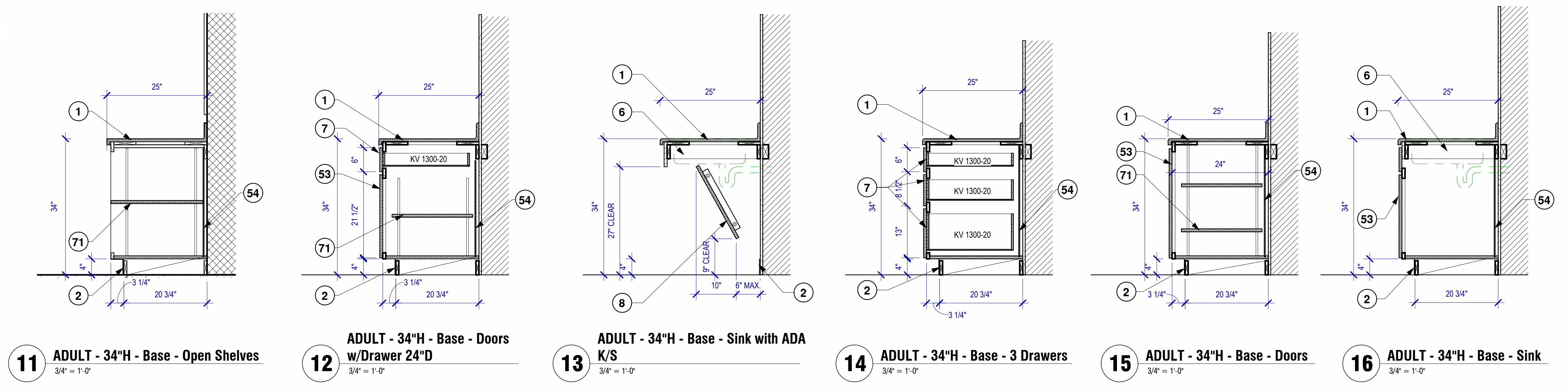
MILLWORK NOTES

- PROVIDE PLASTIC LAMINATE AT ALL EXPOSED EDGES OF CABINETS, DRAWERS, SUPPORTS, AND EDGES.
- REFER TO SPECS FOR MATERIALS REQUIRED AT ALL CABINET COMPONENTS (I.E., SUB-TOPS, FRONTS, SHELVES, ETC.).
- ALL SHELVING TO BE GRADE A/C 3/4" PLYWOOD SHELVING, PLASTIC LAMINATE ON ALL EXPOSED EDGES. WITH 1/4" HARDBOARD BACKING VERTICALS TO BE EITHER 1 3/4" WITH EDGING PLYWOOD OR 2 3/4" PLYWOOD SHEETS, BACK TO BACK WITH A 1/2" TRIM DEPENDING ON THE CONSTRUCTION METHOD PROPOSED. ALL ADJUSTABLE SHELVING STANDARDS SHALL BE RECESSED WITH STANDARDS THAT ARE BACK TO BACK ON ONE PLYWOOD SHEET TO BE ALTERNATELY LAPPED BY 1". SHELF STANDARDS ARE KV 255 & 256.
- ALL FIXED SHELVES SHALL BE A/C 3/4" PLYWOOD WITH HARDWOOD EDGES, PLAM CLAD, WITH ALL HORIZONTAL AND VERTICAL SURFACES MEETING IN CLEAN WELL CRAFTED DADO JOINTS. GLUE AND/OR INVISIBLE TOE NAIL AT ALL SPLICES. RE: SPECS.
- AT THE TOE SPACE OF ALL BASE CABINET UNITS, AS WELL AS FULL HEIGHT SHELVING UNITS, PROVIDE A FULL 4" TO ALLOW A 4" VINYL (RUBBER) BASE TO BE APPLIED. (A CONTINUOUS 1/2" PLYWOOD STRIP IN ADDITION TO THE 3 1/2" OF THE 2"x4" SHOULD SUFFICE).
- REFER TO MILLWORK SPECS FOR DETAILED SPECIFICATIONS.
- G.C. TO PROVIDE SHOP DRAWINGS FOR ARCHITECT'S APPROVAL.

CABINET HARDWARE (FINISH)
CATCHES: MAGNETIC TYPE STANLEY SP46 US28 FINISH, 1 PER DOOR.
HINGES: 2 PER 3'-0" HGT. OF OPENING STANLEY 1592-1.
PULLS: HEAVY DUTY TYPE STANLEY #4484 US28 FINISH, 1 PER DOOR OR DRAWER.

KEYNOTES - MILLWORK

| Number | Description |
|--------|--|
| 1 | PLASTIC LAMINATE PREFORMED TOP W/SPASH-RETURN |
| 2 | 4" HIGH BASE - MATCH BASE IN ROOM |
| 6 | 6" DEEP SINK; PLYWOOD SUBTOPS REQ'D AT SINK AREAS |
| 7 | 3/4" STAIN GRADE DRAWER FACE |
| 8 | 3/4" STAIN GRADE REMOVABLE ACCESS PANEL |
| 53 | 3/4" STAIN GRADE DOOR |
| 54 | 1/4" PLYWOOD BACKING |
| 71 | 3/4" PLYWOOD SHELVES W/KV 255 & 256 STANDARDS & RECESSED BRACKETS |
| 72 | 3/4" PLYWOOD SHELVES W/ 60" KV 80/180 STL STANDARD |
| 73 | Bottom 18" Wide Shelf To Be Fixed @ 12" A.F.F. Side Shelves To Stay Adjustable. (The Fixed Shelf Is To Prevent Possible Full Entry Into Closet) |



STRUCTURAL NOTES

DESIGN LOADS:

- FOR NEW STRUCTURAL STEEL CANOPY: DEAD LOADS INCLUDE THE WEIGHT OF CONSTRUCTION MATERIALS INCORPORATED INTO THE BUILDING, INCLUDING BUT NOT LIMITED TO WALLS, FLOORS, ROOFS, CEILINGS, STAIRWAYS, BUILT-IN PARTITIONS, FINISHES, CLADDING AND OTHER SIMILARLY INCORPORATED ARCHITECTURAL AND STRUCTURAL ITEMS, AND FIXED SERVICE EQUIPMENT. ALL DEAD LOADS ARE CONSIDERED PERMANENT LOADS. MINIMUM ROOF DEAD LOAD IS 15 PSF OR ACTUAL LOAD WHICHEVER IS LARGER.
- UNIFORM DESIGN LIVE LOADING IS AS FOLLOWS:
 - NEW CANOPY20 PSF
 - REFERENCE STRUCTURAL PLANS FOR EXISTING BUILDING AREAS
- NEW CANOPY ROOF LIVE LOADS MAY BE REDUCED.
 - GROUND SNOW LOAD, P_g 5 PSF
- SNOW LOAD:
 - GROUND SNOW LOAD, P_g 5 PSF
- RAIN INTENSITY4.25 IN/HR
- WIND LOADS:
 - RISK CATEGORYIII
 - ULTIMATE DESIGN WIND SPEED, V_{ult} 116 MPH
 - ALLOWABLE DESIGN WIND SPEED, V_{asd} 90 MPH
 - EXPOSURE CATEGORY "B"
 - INTERNAL PRESSURE COEFFICIENT +/- 0.18, 0.55, 0.00
 - FOR COMPONENTS AND CLADDING GROSS WIND PRESSURE. SEE DL-10.
- EARTHQUAKE DESIGN DATA:
 - SEISMIC IMPORTANCE FACTOR I_e 1.0
 - RISK CATEGORYIII
 - MAPPED SPECTRAL RESPONSE ACCELERATIONS:
 - S_s 0.051g
 - S_1 0.021g
 - SITE CLASS "D"
 - SPECTRAL RESPONSE COEFFICIENTS
 - S_{ds} 0.055g
 - S_{d1} 0.034g
 - BASIC SEISMIC FORCE RESISTING SYSTEM - STRUCTURAL STEEL SYSTEM NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE
 - DESIGN BASE SHEAR, $V = N/A$
 - SEISMIC RESPONSE COEFFICIENT, $C_s = N/A$
 - RESPONSE MODIFICATION COEFFICIENT, $R = N/A$
 - ANALYSIS PROCEDURE - N/A
- UNLESS SPECIFICALLY NOTED, THERE ARE NO PROVISIONS FOR FUTURE FLOORS, ROOFS OR OTHER LOADS.
- COMPONENTS AND CLADDING PRESSURES:

| ROOF PRESSURES (NEW CANOPY) | | |
|--------------------------------|----------------------|-------------|
| | TRIBUTARY AREA (PSF) | |
| ZONE | 10 SQ. FT. | 100 SQ. FT. |
| 1 | +16, -26 | +16, -25 |
| 2 | +16, -40 | +16, -28 |
| 3 | +16, -56 | +16, -28 |

| WALL PRESSURES (NEW WALL OPENING) | | |
|--------------------------------------|----------------------|-------------|
| | TRIBUTARY AREA (PSF) | |
| ZONE | 10 SQ. FT. | 500 SQ. FT. |
| 4 | +24, -26 | +20, -21 |
| 5 | +24, -30 | +20, -21 |

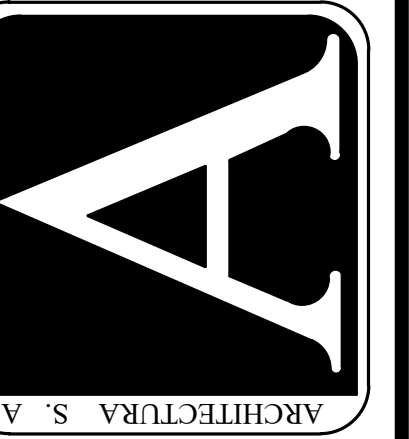
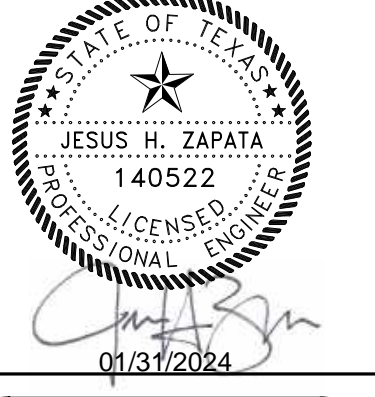
NOTE:
1. REFER TO ASCE 7-16 FOR DEFINITION OF "a" DIMENSION.

METAL DECK:

- ALL GALVANIZED (G60 EXCEPT WHERE EXPOSED TO WEATHER, USE G90) METAL ROOF DECK SHALL BE FURNISHED WITH A MINIMUM TWO SPAN CONDITION, UNLESS NOTED OR DETAILED OTHERWISE, ROOF DECK SIZE IS NOTED ON THE PLANS AND SHALL CONFORM TO THE FOLLOWING MINIMUM, SECTION PROPERTIES:
 - ALL ROOF DECK EXCEPT AS NOTED (SUPPORTS SPACED NOT MORE THAN 6'-0" o.c.) 1 1/2", TYPE "B", 22 GAGE.
 - $I = 0.169$ IN 4/FT.
 - $S_x = 0.186$ IN 3/FT.
 - $S_y = 0.192$ IN 3/FT.
 - $F_y = 33,000$ PSI
- ROOF DECK COMPLYING WITH THE CODE APPLICABLE EDITION OF THE STEEL DECK INSTITUTE SHALL BE ATTACHED TO SUPPORTING MEMBERS TO RESIST A DIAPHRAGM SHEAR FORCE OF THE FOLLOWING:
 - (TYP. ROOF DECK ATTACHMENT U.N.O.) - TYP. 1.5B DECK SHALL BE ATTACHED TO ALL SUPPORTING MEMBERS WITH 5/8" DIA. PUDDLE WELDS IN A 36/5 PATTERN. PROVIDE MINIMUM 4 - #10 TEK SCREW SIDE LAP FASTENERS PER SPAN.
 - (TYP. ROOF DECK ATTACHMENT AT BLDG. END, WITHIN "a" ZONE) - 1.5B DECK SHALL BE ATTACHED TO ALL SUPPORTING MEMBERS WITH 5/8" DIA. PUDDLE WELDS IN A 36/7 PATTERN. (EVERY FLUTE). PROVIDE MINIMUM 7 #10 TEK SCREWS SIDELAP FASTENERS PER SPAN.
- ALL FIELD WELDING OF DECK SHALL BE IN STRICT ACCORDANCE WITH ANSI/AWS D1.3 STRUCTURAL WELDING CODE - SHEET STEEL. EACH WELDER MUST DEMONSTRATE AN ABILITY TO PRODUCE SATISFACTORY WELDS USING A PROCEDURE SUCH AS SHOWN IN THE STEEL DECK INSTITUTE MANUAL OF CONSTRUCTION WITH STEEL DECK OR AS DESCRIBED IN ANSI/AWS D1.3.
- DECK MANUFACTURER SHALL FURNISH SHEET METAL CLOSURES BETWEEN FLOOR UNITS AND BEAMS, GIRDERS OR COLUMNS AS REQUIRED. THESE ACCESSORIES SHALL BE OF THE TYPE REQUIRED BY THE STEEL DECK INSTITUTE.
- DECK MANUFACTURER SHALL FURNISH RIDGE, VALLEY PLATES, AND FLAT PLATES AT CHANGE OF DECK DIRECTION TO PROVIDE A FINISHED SURFACE FOR THE APPLICATION OF ROOF INSULATION AND ROOF COVERING.
- PRIOR TO START OF FABRICATION, STEEL FABRICATOR SHALL PROVIDE COMPLETE ERECTION AND FABRICATION DRAWINGS SHOWING LAYOUT AND TYPES OF DECK PANELS, ANCHORAGE DETAILS, SUPPLEMENTARY FRAMING AND ALL ACCESSORIES.

ABBREVIATIONS

- | | | | |
|----------|--|---------|-----------------------------|
| & | - AND | I.D. | - INSIDE DIAMETER |
| @ | - AT | IN. | - INCH |
| CL | - CENTERLINE | INV. | - INVERTED |
| X" | - DEGREE | INT. | - INTERIOR |
| Ø | - DIAMETER | JOIST | - JOIST |
| # | - NUMBER/POUND | JT. | - JOINT |
| A.B. | - ANCHOR BOLT | K | - KIP (THOUSAND POUNDS) |
| A.E.S.S. | - ARCHITECTURALLY EXPOSED STRUCTURAL STEEL | L | - ANGLE |
| APPROX. | - APPROXIMATE | L.B.S. | - POUNDS |
| ARCH. | - ARCHITECT/ARCHITECTURAL | L.D.H. | - LONG DIMENSION HORIZONTAL |
| ADH. | - ADHESIVE | LF | - LINEAR FOOT |
| ALT. | - ALTERNATE | LLH | - LONG LEG HORIZONTAL |
| B.P. | - BASE PLATE | LG. | - LONG |
| B.L. | - BUILDING LINE | LLV | - LONG LEG VERTICAL |
| B.U.R. | - BUILT-UP ROOF | MAX. | - MAXIMUM |
| BM | - BEAM | MECH. | - MECHANICAL |
| B.W. | - BOTH WAYS | MEZZ. | - MEZZANINE |
| BOT. | - BOTTOM | MFR. | - MANUFACTURER |
| BLDG. | - BUILDING | MID. | - MIDDLE |
| BSMT. | - BASEMENT | MIN. | - MINIMUM |
| BRG. | - BEARING | MISC. | - MISCELLANEOUS |
| BTWN. | - BETWEEN | MAS. | - MASONRY |
| CANT. | - CANTILEVER | NS | - NEAR SIDE |
| C.I.P. | - CAST-IN-PLACE | NOM. | - NOMINAL |
| CLS. | - CEILING | N.T.S. | - NOT TO SCALE |
| CLR. | - CLEAR | O.C. | - ON CENTER |
| CMU | - CONCRETE MASONRY UNITS | O.D. | - OUTSIDE DIAMETER |
| COL. | - COLUMN | O.H. | - OPPOSITE HAND |
| CONC. | - CONCRETE | OPNG. | - OPENING |
| CONTR. | - CONTRACTOR | OPP. | - OPPOSITE |
| C.J. | - CONSTRUCTION JOINT | PIC | - PRECAST |
| CONN. | - CONNECTION | PREFAB. | - PREFABRICATED |
| CONST. | - CONSTRUCTION | PSF | - POUND PER SQUARE FOOT |
| CONT. | - CONTINUOUS | PSI | - POUND PER SQUARE INCH |
| DECK | - DECK | PL. | - PLATE |
| DEMO. | - DEMOLITION | R | - RISER |
| DIA. | - DIAMETER | RAD. | - RADIUS |
| DIAG. | - DIAGONAL | R.D. | - ROOF DRAIN |
| DIM. | - DIMENSION | REF. | - REFERENCE |
| D.L. | - DEAD LOAD | REINF. | - REINFORCING/REINFORCED |
| DBL | - DOUBLE | REQ'D. | - REQUIRED |
| DN. | - DOWN | SPA. | - SPACES/SPACING |
| DWL. | - DOWEL | SCHED. | - SCHEDULE |
| DWG. | - DRAWING | SECT. | - SECTION |
| EA. | - EACH | SHT. | - SHEET/SHEATHING |
| E.F. | - EACH FACE | SIM. | - SIMILAR |
| E.H. | - EAVE HEIGHT | SPEC. | - SPECIFICATION |
| E.J. | - EXPANSION JOINT | SL | - SLOPE |
| EL. | - ELEVATION | SSS | - STANDARD STRUCTURAL STEEL |
| ELEV. | - ELEVATOR | STIFF. | - STIFFENERS |
| EQ. | - EQUAL | STIR. | - STIRRUPS |
| EQUIP. | - EQUIPMENT | SQ. | - SQUARE |
| E.W. | - EACH WAY | STD. | - STANDARD |
| EXT | - EXISTING | STL. | - STEEL |
| EXP. | - EXPANSION | STR. | - STAIR |
| EXT. | - EXTERIOR | STRUCT. | - STRUCTURE/STRUCTURAL |
| FDN. | - FOUNDATION | SYM. | - SYMMETRICAL |
| F.D. | - FLOOR DRAIN | T. | - TREAD |
| F.S. | - FAR SIDE | T&B | - TOP AND BOTTOM |
| FIN. | - FINISH | THK. | - THICK/THICKNESS |
| FLD | - FIELD | T.O.C. | - TOP OF CONCRETE |
| FLR. | - FLOOR | T.O.J. | - TOP OF JOIST |
| FT. | - FOOT OR FEET | T.O.S. | - TOP OF STEEL |
| FTG. | - FOOTING | T.O.W. | - TOP OF WALL |
| F.V. | - FIELD VERIFY | TYP. | - TYPICAL |
| GAGE | - GAGE | U.N.O. | - UNLESS NOTED OTHERWISE |
| GA. | - GALVANIZED | VERT. | - VERTICAL |
| GALV. | - GALVANIZED | W/ | - WITH |
| GR. | - GRADE | W.P. | - WORK POINT |
| HK. | - HOOK | W.W.F. | - WELDED WIRE FABRIC |
| HORIZ. | - HORIZONTAL | | |
| HCA | - HEADED CONCRETE ANCHOR | | |
| H.S. | - HIGH STRENGTH | | |

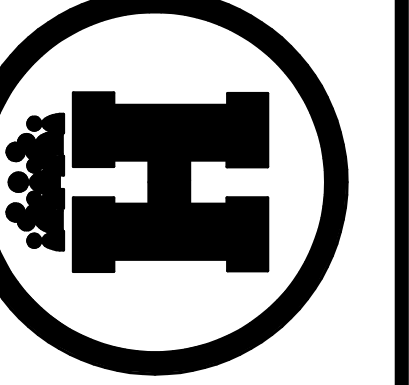


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EDUCATION (CTE)**

HARLANDALE INDEPENDENT SCHOOL DISTRICT
519 W HARDING BLVD.
SAN ANTONIO, TX 78221



Drawn By: A.G.
Checked By: J.Z.
Job Number: 23-09

STRUCTURAL NOTES

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Date: 01/31/2024
Drawing No:

S-102



Alpha Consulting Engineers
8023 Vantage Drive
Suite 1101, San Antonio, TX 78230
D 210.227.3647
Alpha Project No. S23076
F-1010

SPECIAL INSPECTIONS

STRUCTURAL SPECIAL INSPECTIONS NOTES:

- SPECIAL INSPECTION WORK IS NOT INCLUDED IN THE STRUCTURAL ENGINEER'S SCOPE OF SERVICES. THE OWNER WILL ENGAGE A TESTING AGENCY TO CONDUCT SPECIAL TESTS AND INSPECTIONS REQUIRED BY AUTHORITIES HAVING JURISDICTION AS THE RESPONSIBILITY OF THE OWNER. ALL INSPECTION REPORTS SHALL BE COPIED TO THE STRUCTURAL ENGINEER, AND A FINAL LETTER OF COMPLIANCE SHALL BE PROVIDED BY THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE (TYPICALLY ARCHITECT) TO THE OWNER OR BUILDING AUTHORITY.

SPECIAL INSPECTION SHALL INCLUDE:
 - SITE PREPARATION
 - PIER FOUNDATION
 - CONCRETE
 - WOOD (NOT REQUIRED)
 - OPEN WEB STEEL JOISTS AND JOISTS GIRDERS (NOT REQUIRED)
 - WELDING OF STRUCTURAL STEEL
 - STEEL ELEMENTS OF COMPOSITE CONSTRUCTION (NOT REQUIRED)
 - BOLTING OF STRUCTURAL STEEL
 - STEEL CONSTRUCTION OTHER THAN STRUCTURAL STEEL
 - MASONRY I (NOT REQUIRED)
 - MASONRY II (NOT REQUIRED)
- INSPECTOR QUALIFICATIONS: QUALIFICATIONS LISTED IN THE TESTING & INSPECTION REQUIREMENTS TABLES ARE RECOMMENDATIONS OF THE LOCAL MEMBERS OF THE TEXAS COUNCIL OF ENGINEERING LABORATORIES. IT IS ALSO RECOMMENDED THAT THE SPECIAL INSPECTORS SHOULD BE EMPLOYED BY AN AGENCY ACCREDITED BY ANY NATIONALLY RECOGNIZED ACCREDITING BODY SUCH AS AASHTO, AZLA, NVLAP, ICC ETC.
- DEFINITIONS:
 ACI - AMERICAN CONCRETE INSTITUTE
 ADSC-IAFD - ADSC: THE INTERNATIONAL ASSOCIATION OF FOUNDATION DRILLING
 AISC - AMERICAN INSTITUTE OF STEEL CONSTRUCTION
 ASNT - AMERICAN SOCIETY FOR NONDESTRUCTIVE TESTING
 ASTM - AMERICAN SOCIETY FOR TESTING MATERIALS
 AWS - AMERICAN WELDING SOCIETY
 CWI - CERTIFIED WELDING INSPECTOR
 CRSI - CONCRETE REINFORCING STEEL INSTITUTE
 IBC - INTERNATIONAL BUILDING CODE
 PCI - PRECAST/PRESTRESSED CONCRETE INSTITUTE
 PTI - POST-TENSIONING INSTITUTE
- THE SPECIAL INSPECTOR CANNOT BE AN EMPLOYEE OF THE CONTRACTOR.
- WHERE STRUCTURAL MEMBERS AND ASSEMBLIES ARE SHOP FABRICATED, THE SPECIAL INSPECTOR SHALL VERIFY THAT THE FABRICATOR MAINTAINS DETAILED FABRICATION AND QUALITY CONTROL PROCEDURES THAT PROVIDE A BASIS FOR INSPECTION CONTROL OF THE WORKMANSHIP AND THE FABRICATOR'S ABILITY TO CONFORM TO THE CONSTRUCTION DOCUMENTS AND REFERENCED STANDARDS, UNLESS THE FABRICATOR IS REGISTERED AND APPROVED TO PERFORM SUCH WORK WITHOUT SPECIAL INSPECTION. EXCEPTION: SPECIAL INSPECTIONS SHALL NOT BE REQUIRED WHERE THE WORK IS PERFORMED ON THE PREMISES OF A FABRICATOR THAT IS ENROLLED IN A NATIONALLY ACCEPTED INSPECTIONS PROGRAM ACCEPTABLE TO THE REGISTERED DESIGN PROFESSIONAL IN CHARGE. AT THE COMPLETION OF FABRICATION, THE APPROVED FABRICATOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE TO THE BUILDING OFFICIAL UPON REQUEST AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE STATING THAT THE WORK WAS PERFORMED IN ACCORDANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS.

TESTING AND INSPECTION REQUIREMENTS FOR CONCRETE CONSTRUCTION (IBC 1705)

| Required Verification and Inspection | Frequency of Verification and Inspection | Inspector Qualifications |
|--|--|----------------------------------|
| CONCRETE CONSTRUCTION | | |
| 1. Inspect reinforcing steel, including prestressing tendons and placement. | Periodic | As required by building official |
| 2. Reinforcing bar welding: | | As required by building official |
| a. Verify weldability of reinforcing bars other than ASTM A 706 | Periodic | |
| b. Inspect single-pass welds, maximum 5/16" | Periodic | |
| c. Inspect all other welds | Continuous | |
| 3. Inspect anchors cast in concrete | Periodic | As required by building official |
| 4. Inspect anchors post-installed in hardened concrete members. | | As required by building official |
| a. Adhesive anchors installed in horizontal or upward inclined orientations to resist sustained tension loads. | Continuous | |
| b. Mechanical anchors and adhesives anchors not defined in part 4a | Periodic | |
| 5. Verifying use of required design mix. | Periodic | As required by building official |
| 6. Prior to concrete placement, fabricate specimens for strength tests, perform slump and air content tests and determine the temperature of the concrete. | Continuous | As required by building official |
| 7. Inspection of concrete and shotcrete placement for proper application techniques. | Continuous | As required by building official |
| 8. Verify maintenance of specified curing temperature and techniques. | Periodic | As required by building official |
| 9. Inspection of prestressed concrete: | | As required by building official |
| a. Application of prestressing forces. | Continuous | |
| b. Grouting of bonded prestressing tendons | Continuous | |
| 10. Inspect erection of precast concrete members. | Periodic | As required by building official |
| 11. Verify in-situ concrete strength, prior to stressing of tendons in post tensioned concrete and prior to removal of shores and forms from beams and structural slabs. | Periodic | As required by building official |
| 12. Inspect formwork for shape, location and dimensions of the concrete member being formed. | Periodic | As required by building official |

VERIFICATION AND SPECIAL INSPECTION TASKS FOR WELDING OF STRUCTURAL STEEL (AISC 360-10)

| Required Verification and Inspection | Frequency of Verification and Inspection | Inspector Qualifications |
|---|--|----------------------------------|
| WELDING OF STRUCTURAL STEEL | | |
| 1. Inspection tasks prior to welding: | | As required by building official |
| a. Welding procedure specifications (WPS) available. | Continuous | |
| b. Manufacturer certifications for welding consumables available. | Continuous | |
| c. Material identification (type/grade) ² | Periodic | |
| d. Welder identification system ^{2,4} | Periodic | |
| e. Fit-up of groove weld (including joint geometry) ² | | Continuous |
| 1) Joint preparation. | | |
| 2) Dimensions (alignment, root opening, root face, bevel) | | |
| 3) Cleanliness (condition of steel surfaces) | | |
| 4) Tacking (tack weld quality and location) | | |
| 5) Backing type and fit (if applicable) | | |
| f. Configuration and finish of access holes ² | Periodic | |
| g. Fit-up of fillet welds ² | | Periodic |
| 1) Dimensions (alignment, gaps at root) | | |
| 2) Cleanliness (condition of steel surfaces) | | |
| 3) Tacking (tack weld quality and location) | | |
| h. Welder qualifications records and continuity records. | Periodic | |
| 2. Inspection tasks during welding: | | As required by building official |
| a. Placement and installation of steel headed stud anchors. | Continuous | |
| b. Control and handling of welding consumables ² | | Periodic |
| 1) Packaging | | |
| 2) Exposure control | | |
| c. No welding over cracked tack welds ² | Periodic | |
| d. Environmental conditions | | Periodic |
| 1) Wind speed within limits | | |
| 2) Precipitation and temperature | | |
| e. WPS followed ² | | Periodic |
| 1) Settings on weld equipment | | |
| 2) Travel speed | | |
| 3) Selected welding materials | | |
| 4) Shielding gas type/flow rate | | |
| 5) Preheat applied | | |
| 6) Interpass temperature maintained (min./max.) | | |
| 7) Proper position (F, V, H, OH) | | |
| f. Welding Techniques ² | | Periodic |
| 1) Interpass and final cleaning | | |
| 2) Each pass within profile limitations | | |
| 3) Each pass meets quality requirements. | | |
| 3. Inspection tasks after welding: | | As required by building official |
| a. Welds cleaned | Periodic | |
| b. Size, length and location of welds | Continuous | |
| c. Welds meet visual acceptance criteria | | Continuous |
| 1) Crack Prohibition | | |
| 2) Weld/base-metal fusion | | |
| 3) Crater cross section | | |
| 4) Weld profiles | | |
| 5) Weld size | | |
| 6) Undercut | | |
| 7) Porosity | | |
| d. Arc strikes | Continuous | |
| e. K-area ³ | Continuous | |
| f. Weld access holes in rolled heavy shapes and built-up heavy shapes ^[b] | Continuous | |
| g. Backing removed and weld tabs removed (if required) | Continuous | |
| h. Repair activities | Continuous | |
| i. Document acceptance or rejection of welded joint or member ⁴ | Continuous | |
| j. No prohibited welds have been added without the approval of the engineer of record | Periodic | |

- Inspection tasks noted in this table are the responsibility of the Special Inspector or Quality Assurance Inspector (QAI). The fabricator and erector are responsible for all inspection tasks indicated in AISC 360-10 Section N5 and assigned to the Quality Control Inspector (QCI)
- Inspection tasks may be coordinated with the fabricator or erector's Quality Control Inspector (QCI) where indicated with this footnote. All other tasks shall be performed by the Special Inspector.
- When welding of doubler plates, continuity plates or stiffeners has been performed in the k-area, visually inspect the web k-area for cracks within 3 in. (75 mm) of the weld.
- The fabricator or erector, as applicable, shall maintain a system by which a welder who has welded a joint or member can be identified. Die stamping of members subjected to fatigue shall be prohibited unless approved by the engineer of record.

VERIFICATION AND SPECIAL INSPECTION OF STEEL CONSTRUCTION OTHER THAN STRUCTURAL STEEL (IBC 1705)

| Required Verification and Inspection | Frequency of Verification and Inspection | Inspector Qualifications |
|--|--|----------------------------------|
| STEEL CONSTRUCTION OTHER THAN STRUCTURAL STEEL (IBC 1705) | | |
| 1. Material verification of cold-formed steel deck: | | As required by building official |
| a. Identification markings to conform to ASTM standards specified in the approved construction documents | Periodic | |
| b. Manufacturer's certified test reports | Periodic | |
| 2. Inspection of welding other than structural steel: | | As required by building official |
| a. Cold-formed steel deck: | | |
| 1) Floor and roof deck welds | Periodic | |
| b. Reinforcing steel: | | |
| 1) Verification of weldability of reinforcing steel other than ASTM A 706 | Periodic | |
| 3. Trusses over 60'-0", inspector shall verify the following: | | As required by building official |
| a. Temporary installation restraint/bracing per approved truss submittal. | Periodic | |
| b. Permanent individual truss member restraint/bracing are installed per approved truss submittal. | Periodic | |
| 4. Site built assemblies | Periodic | As required by building official |

TESTING AND INSPECTION REQUIREMENTS FOR SITE PREPARATION FOR SOIL SUPPORTED FOUNDATIONS (IBC 1705)

| Required Verification and Inspection | Frequency of Verification and Inspection | Inspector Qualifications |
|---|--|----------------------------------|
| 1. Verify materials below shallow foundations are adequate to achieve the design bearing capacity. | Periodic | As required by building official |
| 2. Verify excavations are extended to proper depth and have reached proper material. | Periodic | As required by building official |
| 3. Perform classification and testing of compacted fill materials. | Periodic | As required by building official |
| 4. During fill placement, verify use of proper materials and procedures in accordance with the provisions of the approved geotechnical report. Verify densities and lift thickness during placement and compaction of compacted fill. | Continuous | As required by building official |
| 5. Prior to placement of compacted fill, observe subgrade and verify that site has been prepared properly. | Periodic | As required by building official |
| 6. Chemical Injection: Quality controlled testing and evaluation prior and subsequent to injection shall be performed by the Geotechnical Engineer to determine the effectiveness of the chemical injection process. The Geotechnical Engineer or his representative shall monitor the injection process to verify area coverage, injection depth and to review and monitor the swell test results. | Periodic | As required by building official |

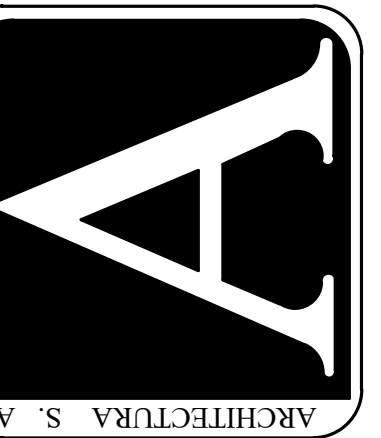
TESTING AND INSPECTION REQUIREMENTS FOR CAST-IN-PLACE DEEP FOUNDATION ELEMENTS (IBC 1705)

| Required Verification and Inspection | Frequency of Verification and Inspection | Inspector Qualifications |
|---|--|----------------------------------|
| PIER FOUNDATION CONSTRUCTION | | |
| 1. Inspect drilling operations and maintain complete and accurate records for each element. | Continuous | As required by building official |
| 2. Verify placement locations and plumbness, confirm element diameters, bell diameters (if applicable), lengths, embedment into bedrock (if applicable) and adequate end-bearing strata capacity. Record concrete or grout volumes. | Continuous | As required by building official |
| 3. For concrete elements, perform additional inspections in accordance with Concrete Construction Special Inspection Section of IBC | --- | As required by building official |

VERIFICATION AND SPECIAL INSPECTION TASKS FOR BOLTING STRUCTURAL STEEL (AISC 360-10)

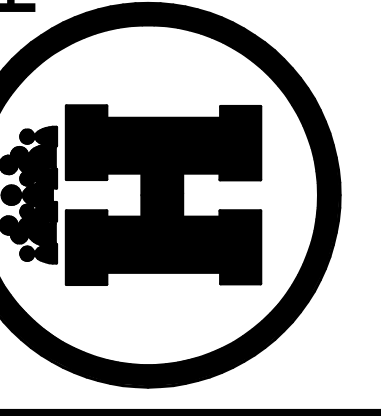
| Required Verification and Inspection | Frequency of Verification and Inspection | Inspector Qualifications |
|---|--|----------------------------------|
| BOLTING STRUCTURAL STEEL (AISC 360-10) | | |
| 1. Inspection tasks prior to bolting: | | As required by building official |
| a. Manufacturer's certifications available for fastener materials | Continuous | |
| b. Fasteners marked in accordance with ASTM requirements | Periodic | |
| c. Correct fasteners selected for the joint detail (grade, type, bolt length if threads are to be excluded from shear plane) | Periodic | |
| d. Correct bolting procedure selected for joint detail ² | Periodic | |
| e. Connecting elements, including the appropriate faying surface condition and hole preparation, if specified, meet applicable requirements. | Periodic | |
| f. Pre-installation verification testing by installation personnel observed and documented for fastener assemblies and methods used | Continuous | |
| g. Protected storage provided for bolts, nuts, washers and other fastener components | Periodic | |
| 2. Inspection tasks during bolting: | | As required by building official |
| a. Fastener assemblies placed in all holes, washers, and nuts are positioned as required ² | Periodic | |
| b. Joint brought to the snug-tight condition prior to the pretensioning operation ² | Periodic | |
| c. Fastener component not turned by the wrench prevented from rotating ² | Periodic | |
| d. Fasteners are pretensioned in accordance with the RCSC Specification, progressing systematically from the most rigid point toward the free edges | Periodic | |
| 3. Inspection tasks after bolting: | | As required by building official |
| a. Document acceptance or rejection of bolted connections | Continuous | |

- Inspection tasks noted in this table are the responsibility of the Special Inspector or Quality Assurance Inspector (QAI). The fabricator and erector are responsible for all inspection tasks indicated in AISC 360-10 Section N5 and assigned to the Quality Control Inspector (QCI)
- Inspection tasks may be coordinated with the fabricator or erector's Quality Control Inspector (QCI) where indicated with this footnote. All other tasks shall be performed by the Special Inspector.



ARCHITECTURA S.A., INC.
 ARCHITECTURE INTERIOR DESIGN PLANNING
 17038 REDLAND RD., SUITE 101, SAN ANTONIO, TEXAS 78247
 t. 210.384.8200 f. 210.319.3555
 architecturas@yahoo.com

HISD CAREER TECHNOLOGY EDUCATION (CTE)
 HARLANDALE INDEPENDENT SCHOOL DISTRICT
 519 W HARDING BLVD.
 SAN ANTONIO, TX 78221



Drawn By: A.G.
 Checked By: J.Z.
 Job Number: 23-09

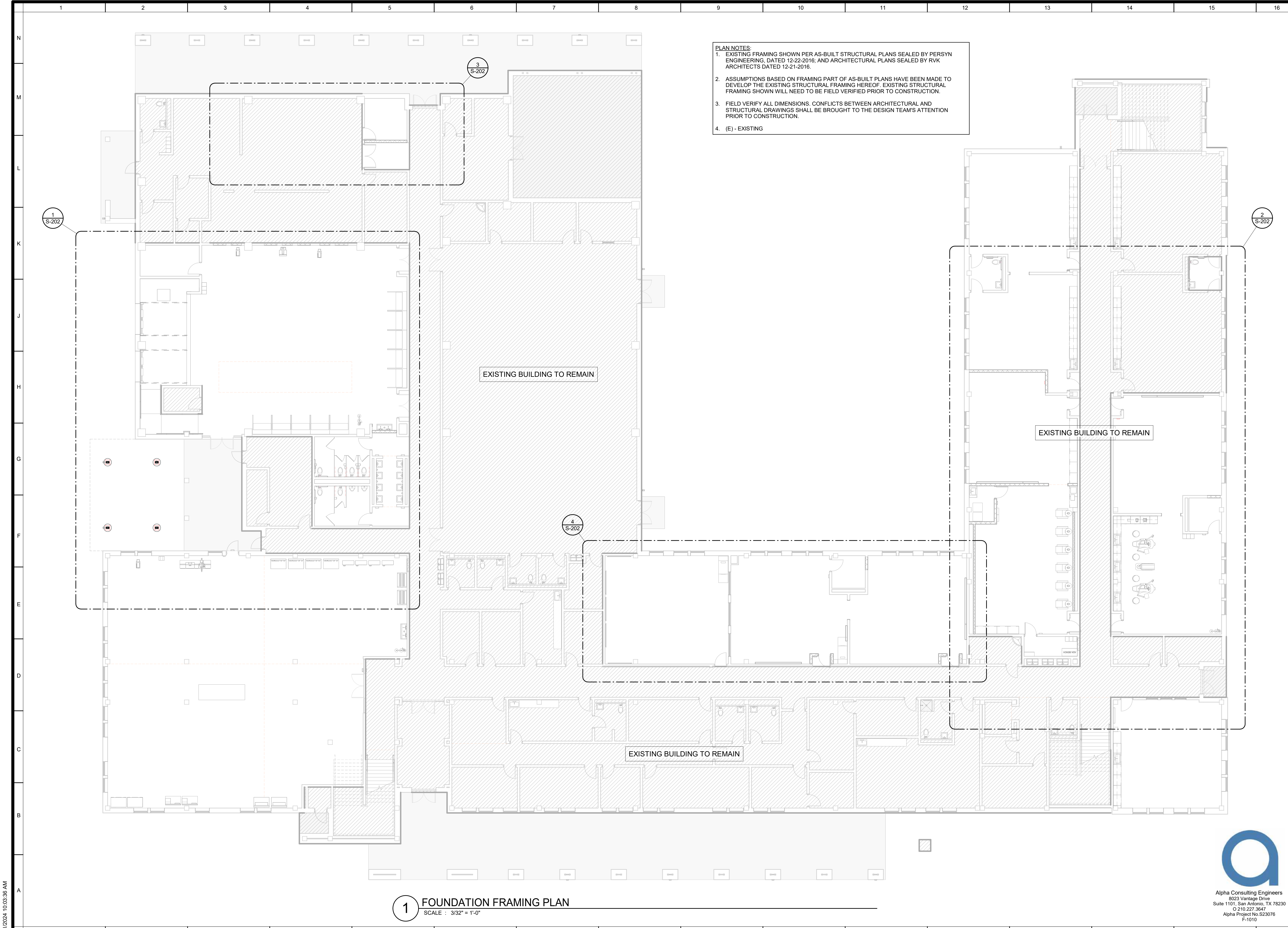
SPECIAL INSPECTIONS

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Date: 01/31/2024
 Drawing No:



Alpha Consulting Engineers
 8023 Vantage Drive
 Suite 1101, San Antonio, TX 78230
 O 210.227.3647
 Alpha Project No. S23076
 F-1010



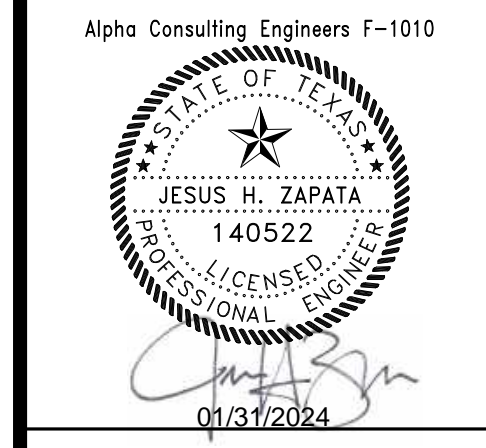
- PLAN NOTES:**
- EXISTING FRAMING SHOWN PER AS-BUILT STRUCTURAL PLANS SEALED BY PERSYN ENGINEERING, DATED 12-22-2016, AND ARCHITECTURAL PLANS SEALED BY RVK ARCHITECTS DATED 12-21-2016.
 - ASSUMPTIONS BASED ON FRAMING PART OF AS-BUILT PLANS HAVE BEEN MADE TO DEVELOP THE EXISTING STRUCTURAL FRAMING HEREOF. EXISTING STRUCTURAL FRAMING SHOWN WILL NEED TO BE FIELD VERIFIED PRIOR TO CONSTRUCTION.
 - FIELD VERIFY ALL DIMENSIONS. CONFLICTS BETWEEN ARCHITECTURAL AND STRUCTURAL DRAWINGS SHALL BE BROUGHT TO THE DESIGN TEAM'S ATTENTION PRIOR TO CONSTRUCTION.
 - (E) - EXISTING

EXISTING BUILDING TO REMAIN

EXISTING BUILDING TO REMAIN

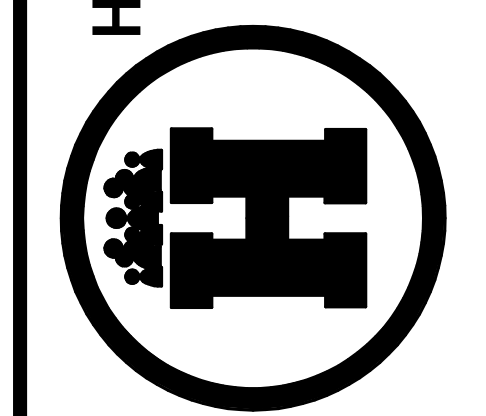
EXISTING BUILDING TO REMAIN

1 FOUNDATION FRAMING PLAN
SCALE : 3/32" = 1'-0"



ARCHITECTURA S.A., INC.
ARCHITECTURE INTERIOR DESIGN PLANNING
17038 REDLAND RD., SUITE 101, SAN ANTONIO, TEXAS 78247
t. 210.384.8200 f. 210.319.3555
architecturass@yahoo.com

HISD CAREER TECHNOLOGY EDUCATION (CTE)
HARLANDALE INDEPENDENT SCHOOL DISTRICT
519 W HARDING BLVD.
SAN ANTONIO, TX 78221



Drawn By: A.G.
Checked By: J.Z.
Job Number: 23-09

COMPOSITE PLAN

| No. | DATE | DESCRIPTION |
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Date: 01/31/2024

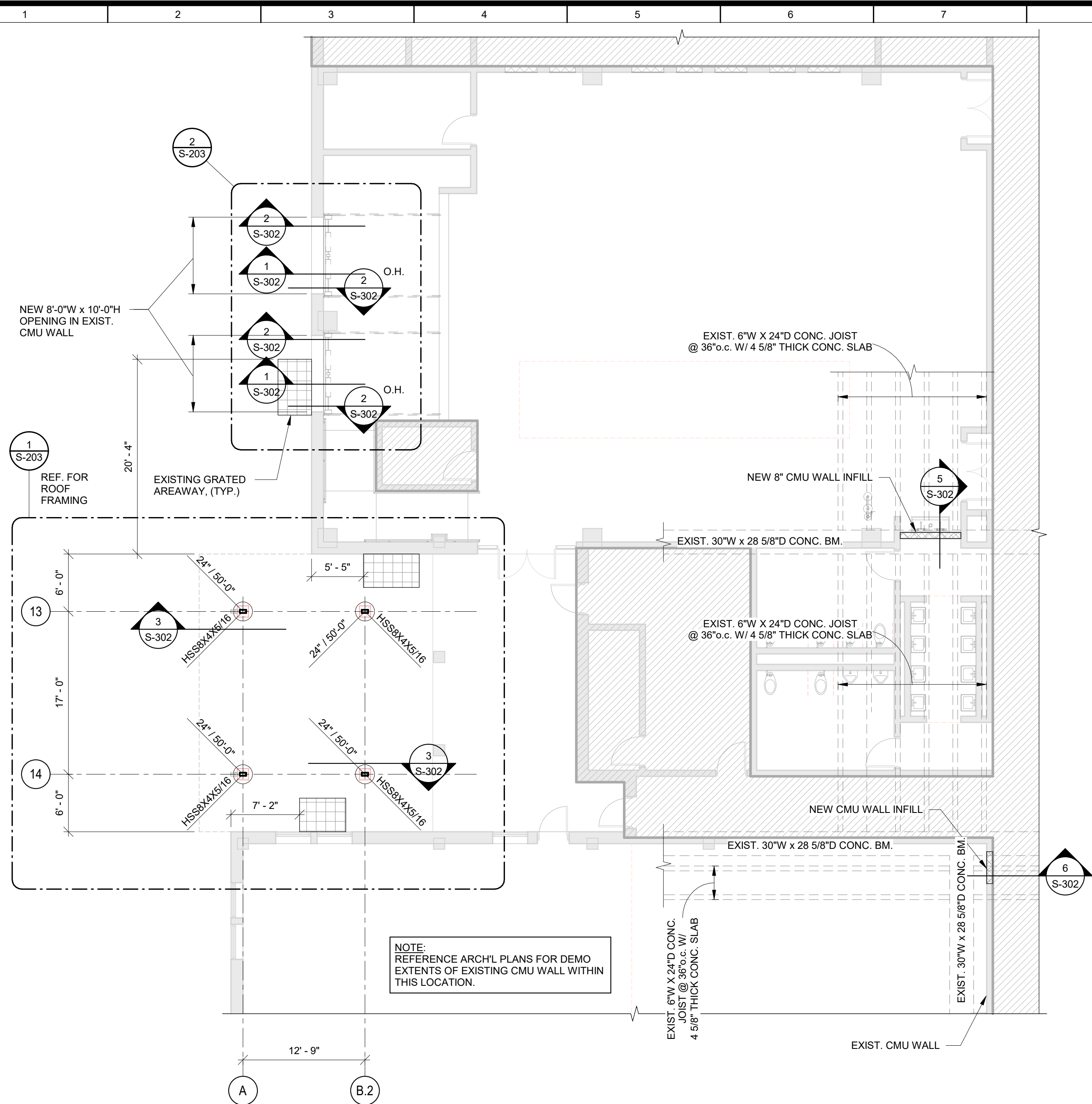
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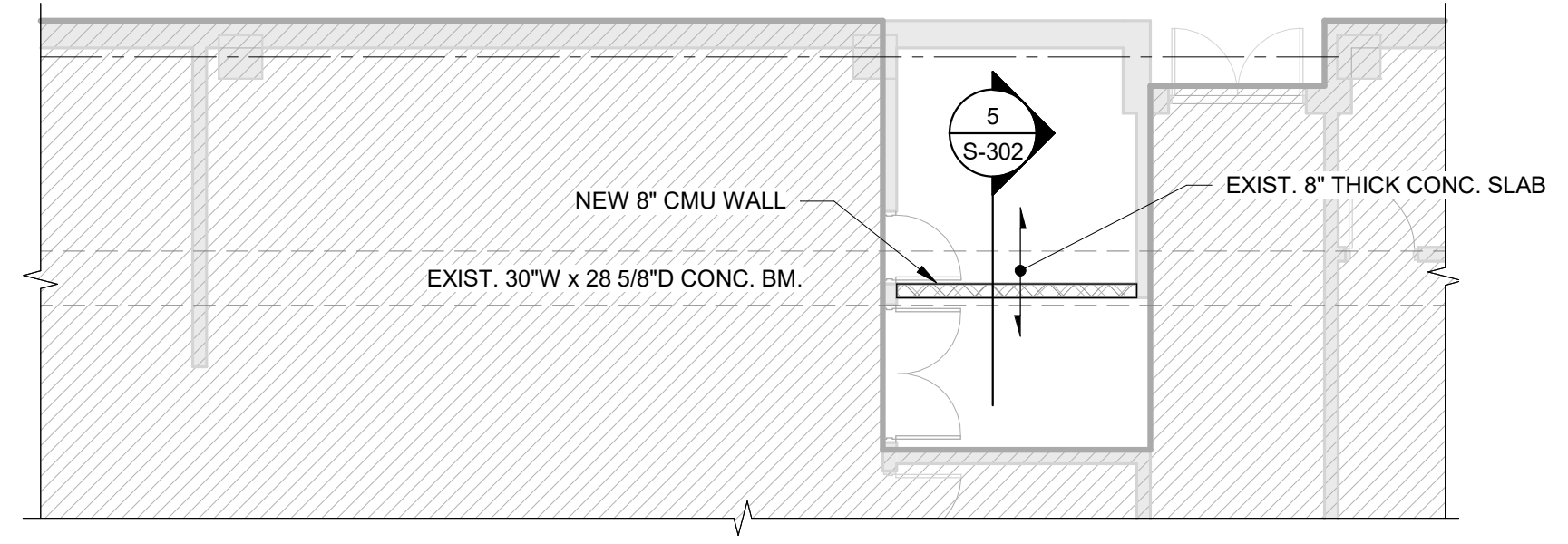
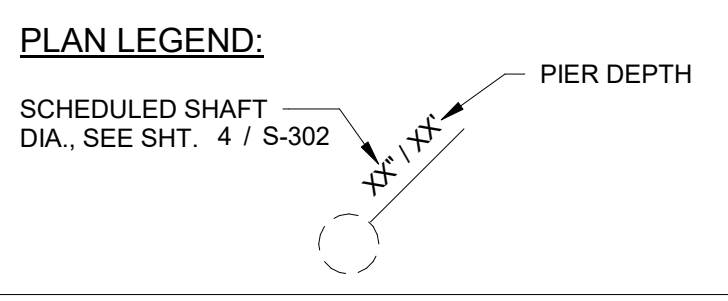
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Suite 1101, San Antonio, TX 78230
O 210.227.3647
Alpha Project No. S23076
F-1010

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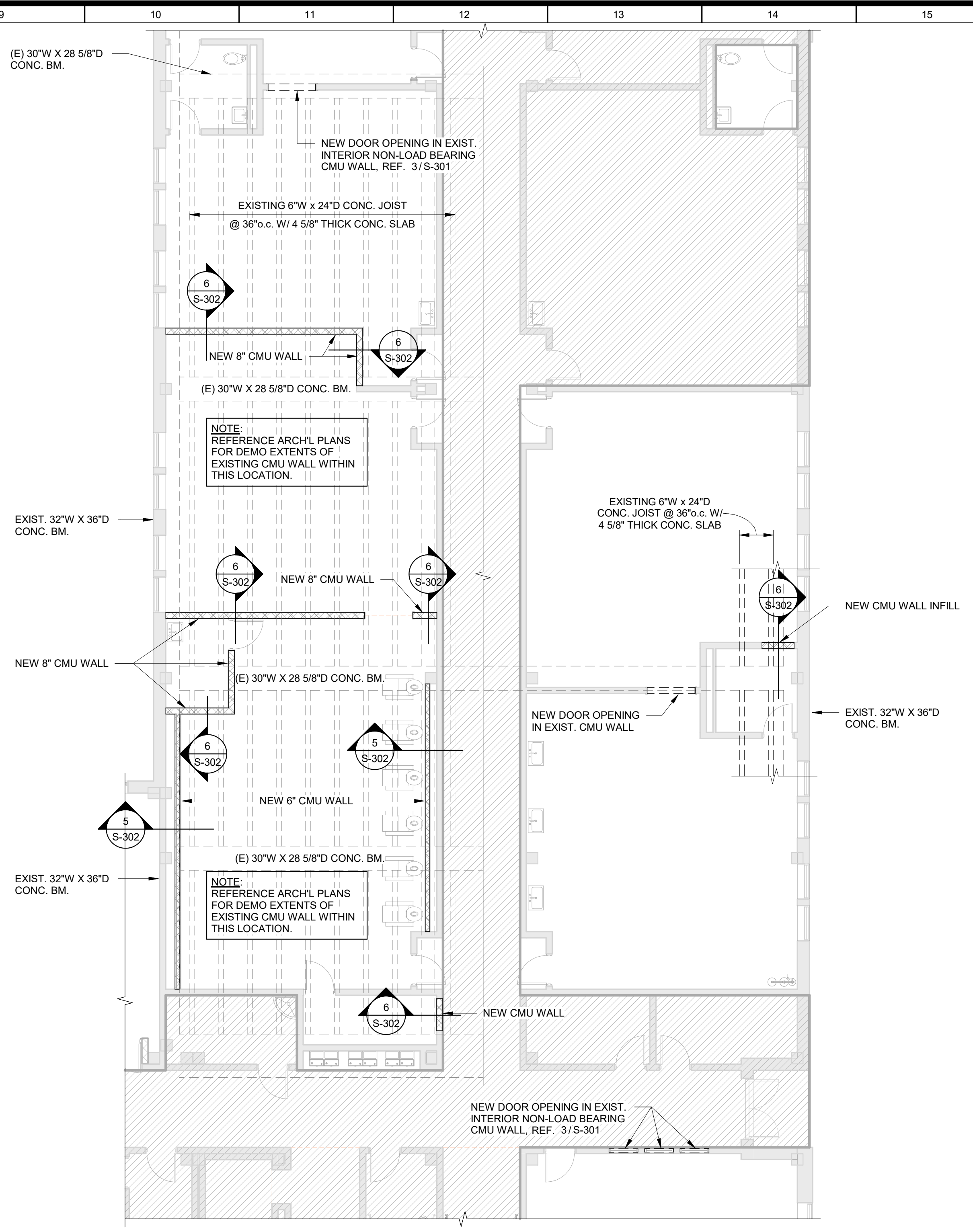


1 PARTIAL EXISTING FOUNDATION FRAMING PLAN
SCALE : 1/8" = 1'-0"

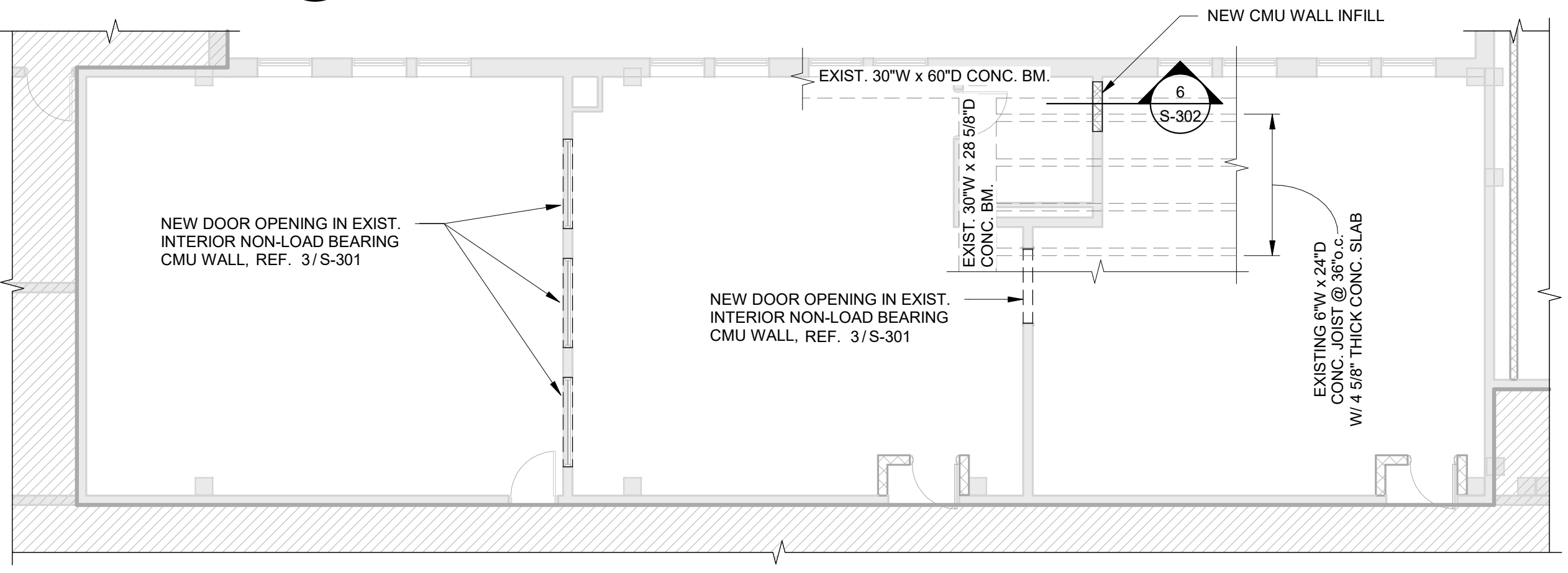
- FOUNDATION PLAN NOTES:**
- EXISTING FRAMING SHOWN PER AS-BUILT STRUCTURAL PLANS SEALED BY PERSYN ENGINEERING, DATED 12-22-2016; AND ARCHITECTURAL PLANS SEALED BY RVK ARCHITECTS DATED 12-21-2016.
 - ASSUMPTIONS BASED ON FRAMING PART OF AS-BUILT PLANS HAVE BEEN MADE TO DEVELOP THE EXISTING STRUCTURAL FRAMING HEREOF. EXISTING STRUCTURAL FRAMING SHOWN WILL NEED TO BE FIELD VERIFIED PRIOR TO CONSTRUCTION.
 - CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS. CONFLICTS BETWEEN ARCHITECTURAL AND STRUCTURAL DRAWINGS SHALL BE BROUGHT TO THE DESIGN TEAM'S ATTENTION PRIOR TO CONSTRUCTION.
 - REF DETAIL 4 / S-302 FOR TYPICAL DRILLED PIER DETAIL.
 - NO EQUIPMENT SHALL BE PLACED ON ANY OF THE EXISTING FLOORS WITHOUT THE APPROVAL OF THE ENGINEER-OF-RECORD.



3 PARTIAL EXISTING FOUNDATION FRAMING PLAN
SCALE : 1/8" = 1'-0"



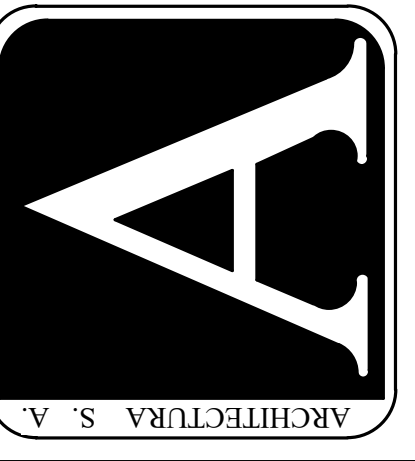
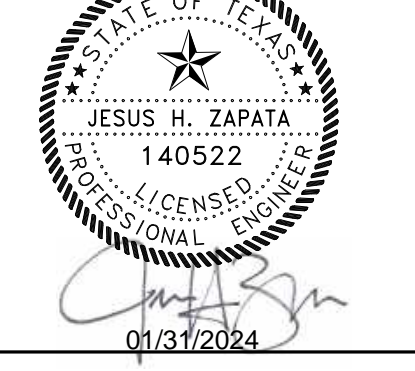
2 PARTIAL EXISTING FOUNDATION FRAMING PLAN
SCALE : 1/8" = 1'-0"



4 PARTIAL EXISTING FOUNDATION FRAMING PLAN
SCALE : 1/8" = 1'-0"

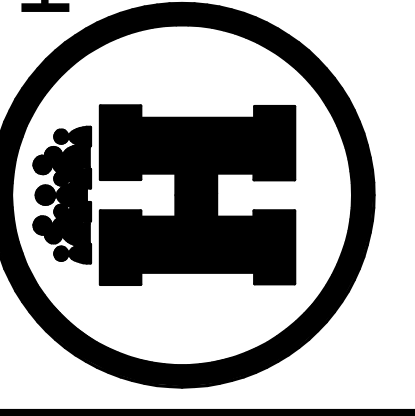


Alpha Consulting Engineers
8023 Vantage Drive
Suite 1101, San Antonio, TX 78230
D 210.227.3647
Alpha Project No. S23076
F-1010



ARCHITECTURA S.A., INC.
ARCHITECTURE INTERIOR DESIGN PLANNING
17038 REDLAND RD., SUITE 101, SAN ANTONIO, TEXAS 78247
t. 210.384.8200 f. 210.319.3555
architecturasa@yahoo.com

HISD CAREER TECHNOLOGY EDUCATION (CTE)
HARLANDALE INDEPENDENT SCHOOL DISTRICT
519 W HARDING BLVD.
SAN ANTONIO, TX 78221



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Checked By: J.Z.
Job Number: 23-09

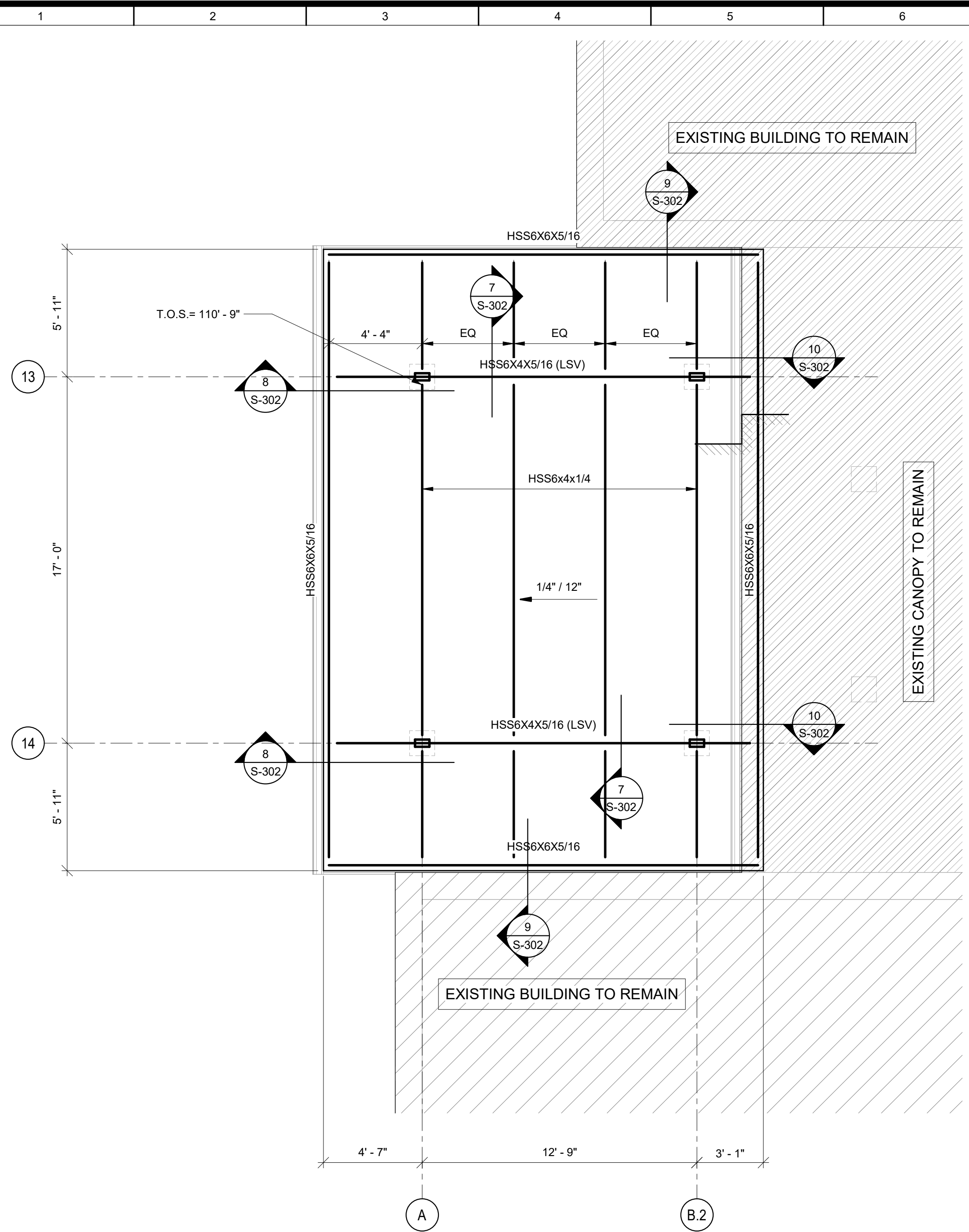
ENLARGED FRAMING PLANS

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Date: 01/31/2024

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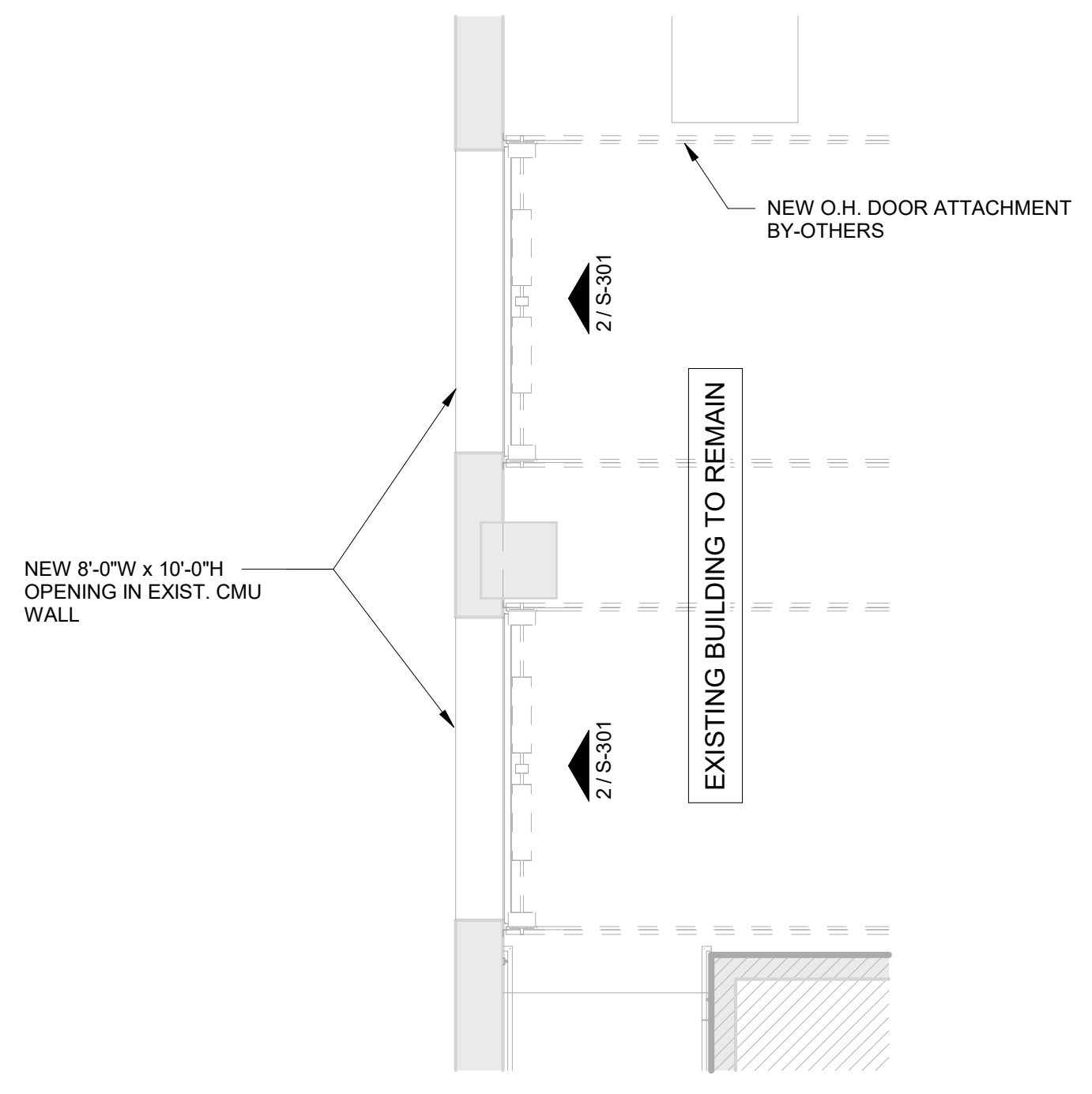
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1 ENLARGED ROOF FRAMING PLAN
SCALE : 1/4" = 1'-0"

ROOF PLAN NOTES:

- T.O.S. - DENOTES METAL DECK BEARING ELEVATION. HIGH AND LOW T.O.S. ELEVATIONS ARE NOTED ON THE PLANS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CALCULATE T.O.S. ELEVATIONS REQUIRED AT INTERMEDIATE LOCATIONS BETWEEN THE NOTED HIGH AND LOW T.O.S. ELEVATIONS.

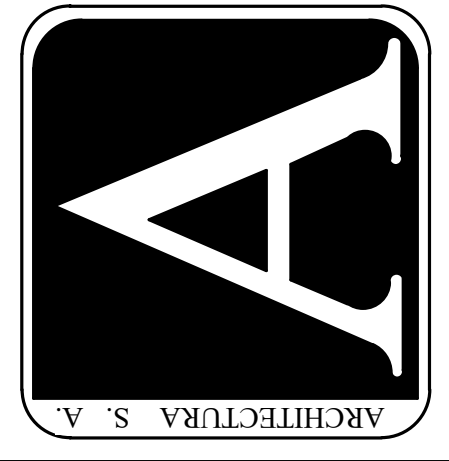
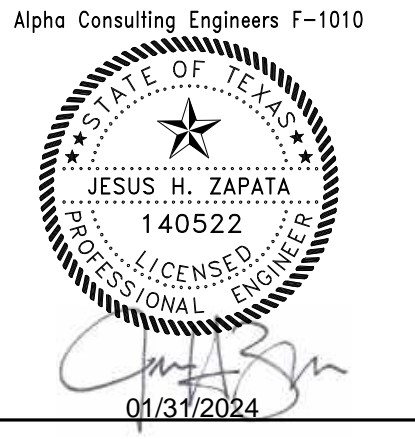


2 ENLARGED FRAMING PLAN
SCALE : 1/4" = 1'-0"



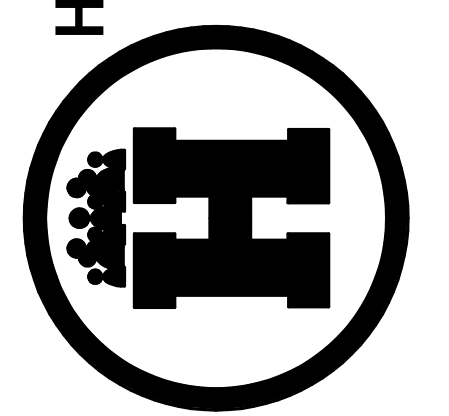
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CONSTRUCTION DOCUMENTS



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ARCHITECTURE INTERIOR DESIGN PLANNING
17038 REDLAND RD., SUITE 101, SAN ANTONIO, TEXAS 78247
t. 210.384.8200 f. 210.319.3555
architecturass@yahoo.com

HISD CAREER TECHNOLOGY EDUCATION (CTE)
HARLANDALE INDEPENDENT SCHOOL DISTRICT
519 W HARDING BLVD.
SAN ANTONIO, TX 78221



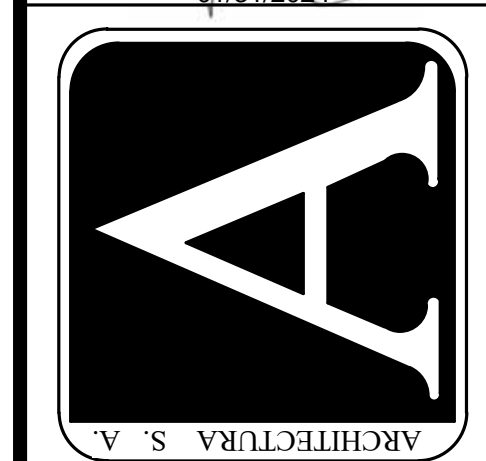
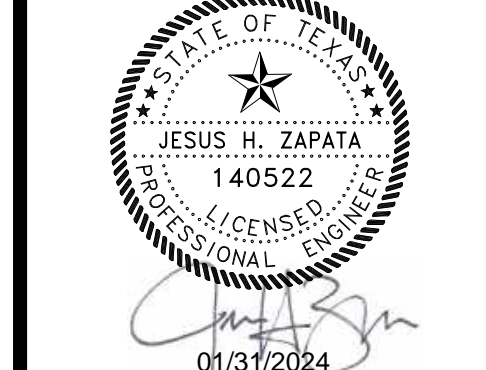
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Checked By: J.Z.
Job Number: 23-09

ENLARGED FRAMING PLANS

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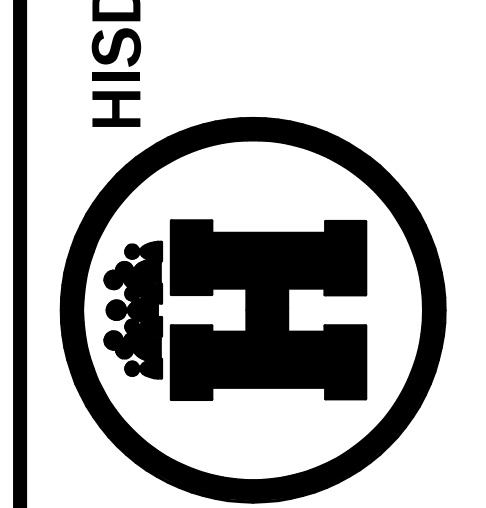
Date: 01/31/2024
Drawing No:

S-203



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 ARCHITECTURE INTERIOR DESIGN PLANNING
 17038 REDLAND RD., SUITE 101, SAN ANTONIO, TEXAS 78247
 t. 210.384.8200 f. 210.319.3555
 architecturasa@yahoo.com

HISD CAREER TECHNOLOGY EDUCATION (CTE)
 HARLANDALE INDEPENDENT SCHOOL DISTRICT
 519 W HARDING BLVD.
 SAN ANTONIO, TX 78221



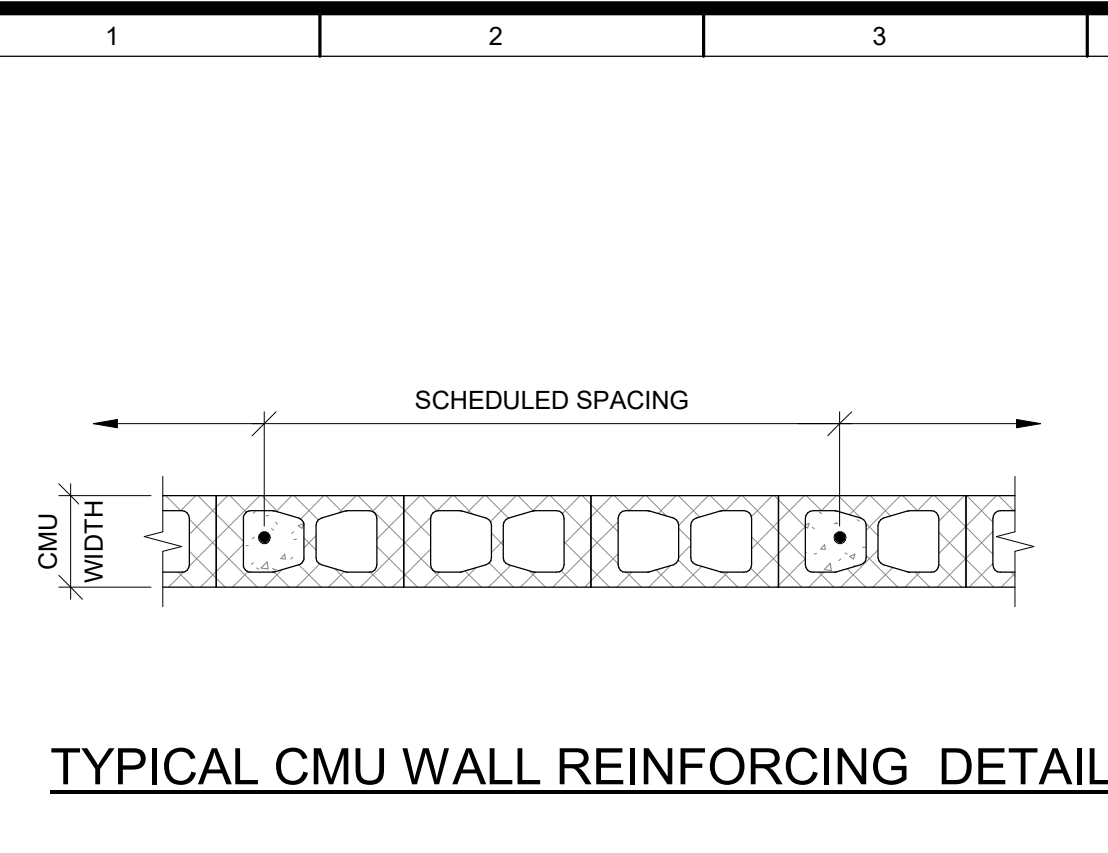
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 Checked By: J.Z.
 Job Number: 23-09

TYPICAL CMU DETAILS

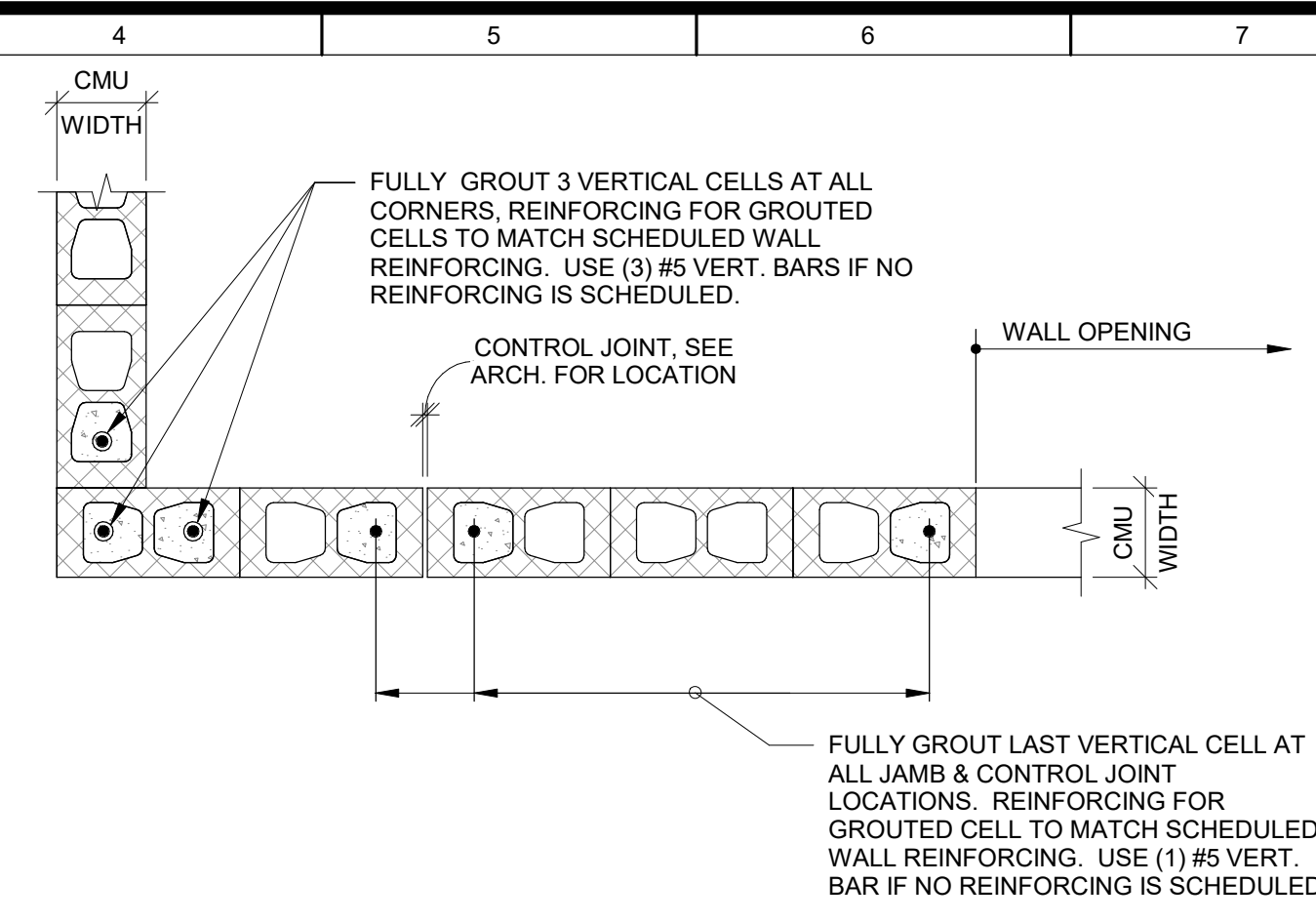
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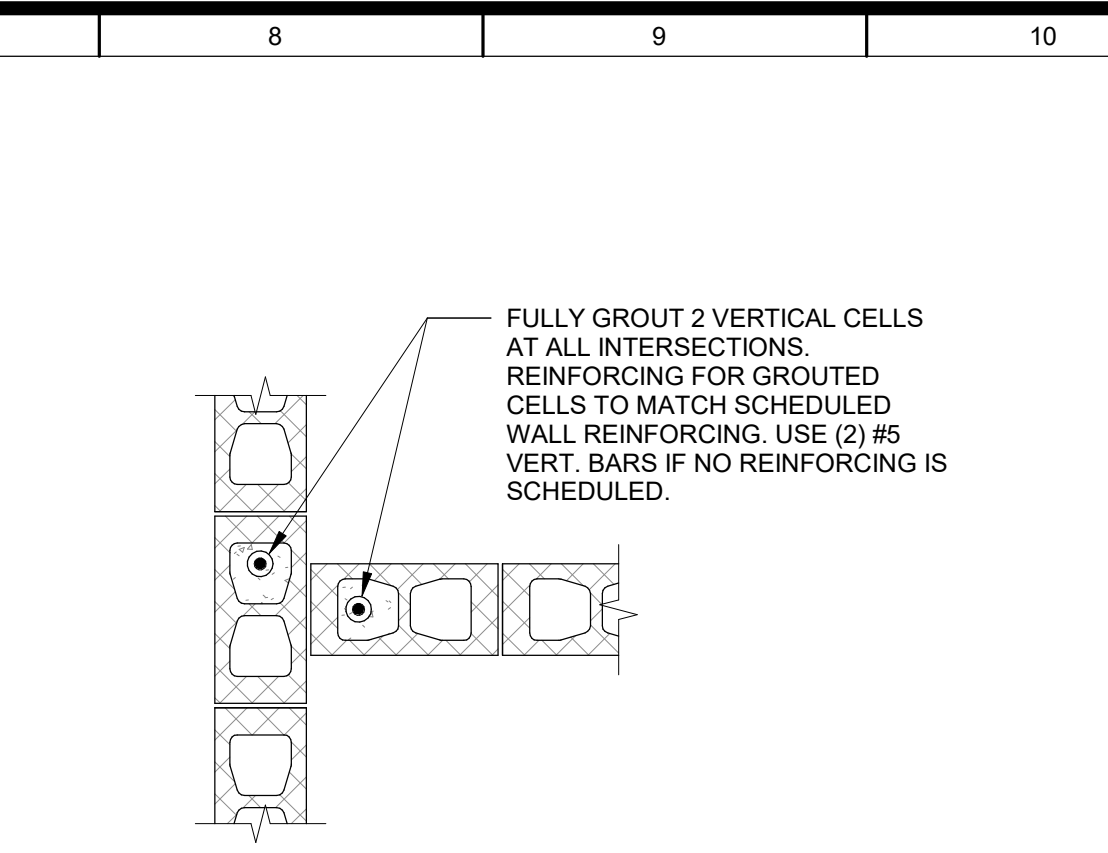
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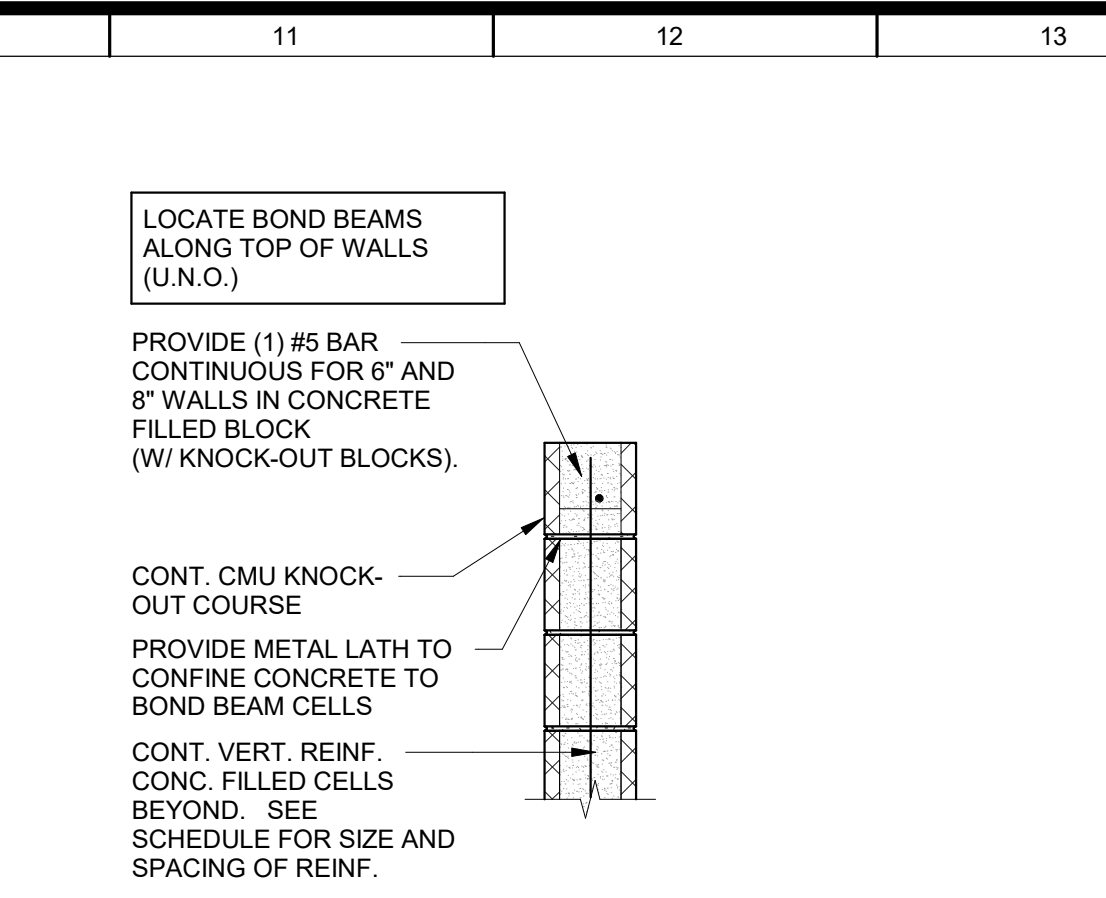
TYPICAL CMU WALL REINFORCING DETAIL



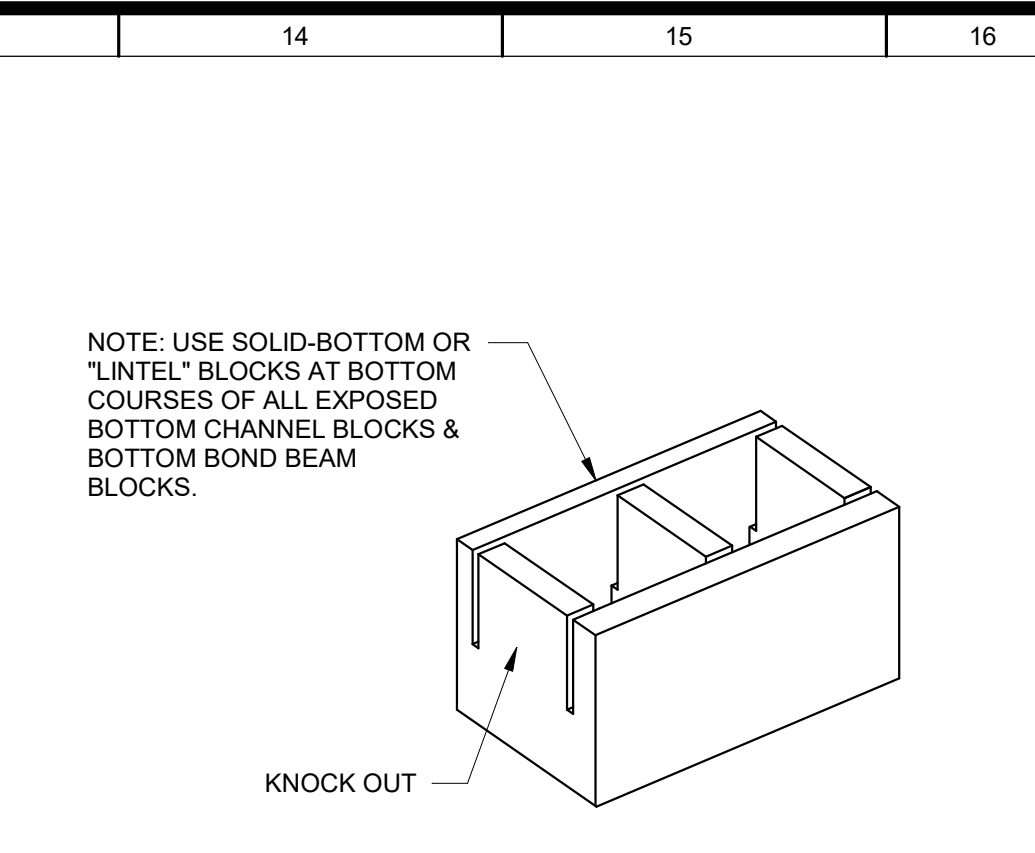
TYPICAL CMU WALL REINF. AT CONTROL JOINT, CORNER, DOOR OR WINDOW JAMB



TYPICAL CMU WALL REINF. AT INTERSECTING WALLS



TYP. CONT. CMU KNOCK-OUT COURSE AT TOP OF WALL AND BOTTOM OF OPENINGS

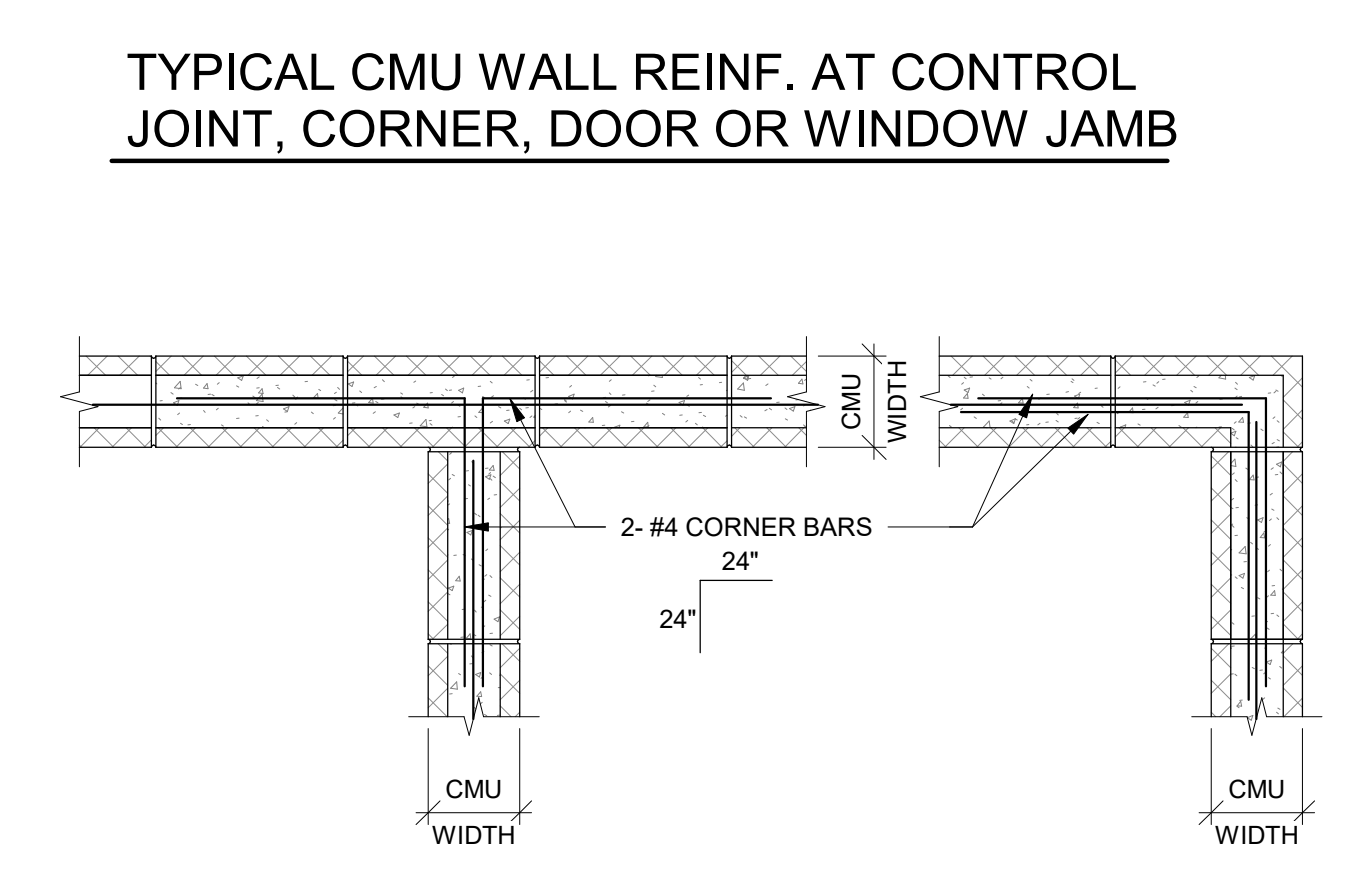


TYPICAL CMU KNOCK-OUT BLOCK AT ALL BOND BEAMS

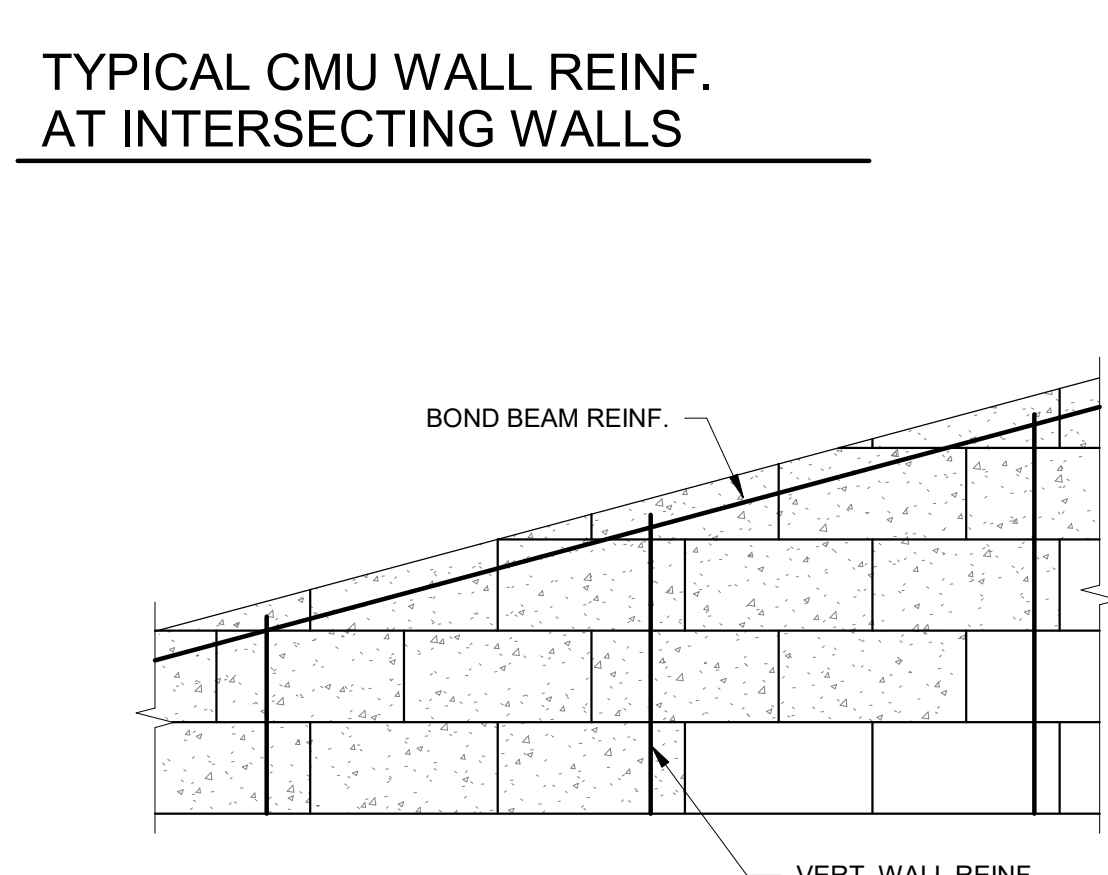
| CMU WALL REINFORCING SCHEDULE | | |
|-------------------------------------|----------------------------------|--------------------------------------|
| PLAN AREA | CMU BLOCK WIDTH | MIN. REINFORCING |
| INTERIOR WALLS | 4" AND 6" NON-LOAD BEARING WALLS | #5 BARS AT ENDS AND AT 48" o.c. BTWN |
| INTERIOR WALLS BRACED < 16'-0" HIGH | 8" NON-LOAD BEARING WALL | NOT REQUIRED |

NOTES:

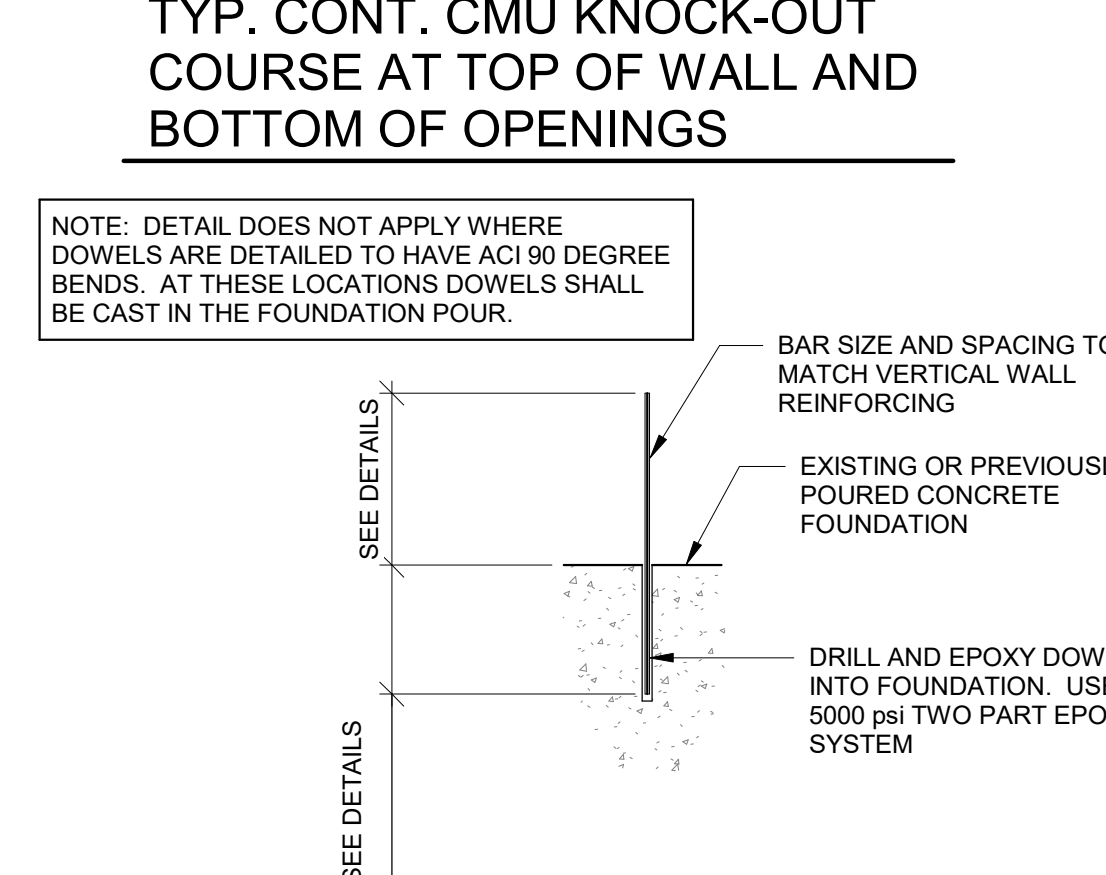
- DEFLECTION LIMIT = L/600.
- ALL 4" AND 6" CMU WALLS AT TOILET ROOMS SHALL BE LAID USING A RUNNING BOND PATTERN AND INTERLOCKED WITH INTERSECTING 8" CMU INTERIOR CLASSROOM WALLS.
- REFER TO SECTIONS AND DETAILS FOR ADDITIONAL REINFORCING REQUIREMENTS THAT MAYBE REQUIRED AT TYPICAL CONDITIONS.



TYP. 8" BOND BEAM CORNER BARS



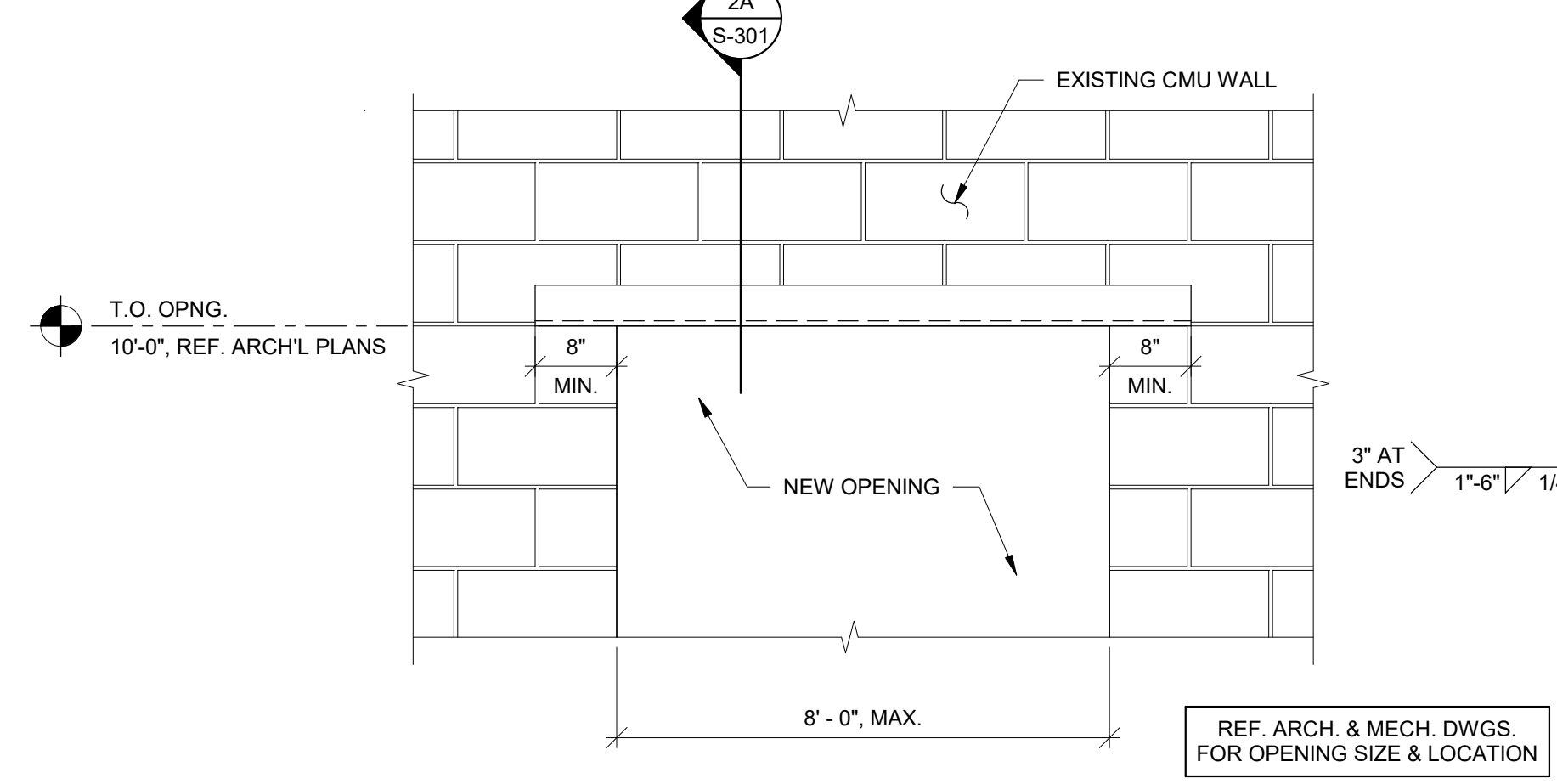
TYP. BOND BEAM AT GABLE END (MIN. 16" DEEP)



CONTRACTORS OPTION TO DRILL & SET CMU WALL DOWELS

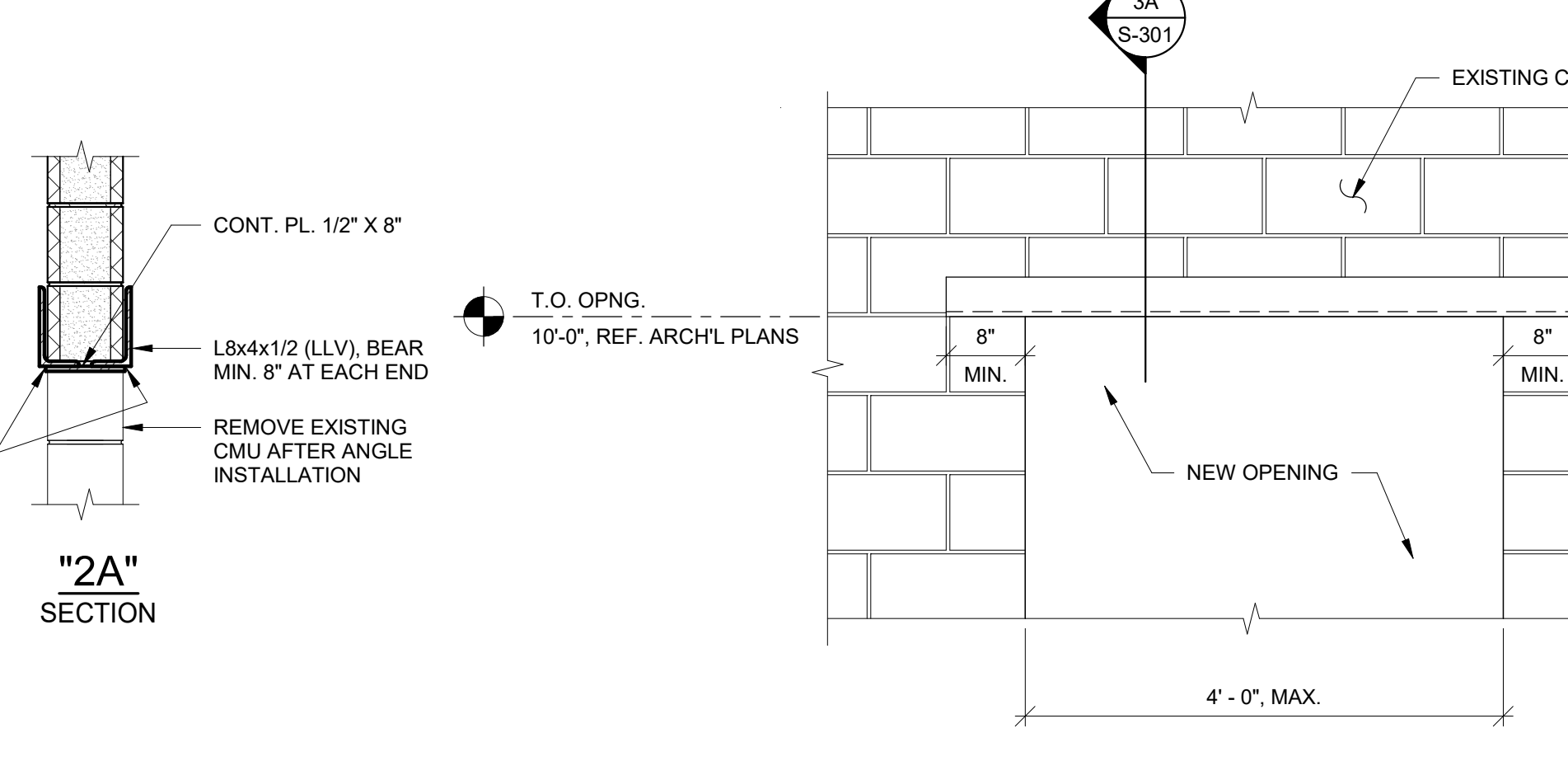
| REBAR LAP IN MASONRY | | |
|----------------------|-------------------|---------------|
| REBAR SIZE | LAP SPLICE LENGTH | |
| | INTERIOR WALL | EXTERIOR WALL |
| 3 | 15" | 27" |
| 4 | 20" | 36" |
| 5 | 25" | 45" |
| 6 | 30" | 54" |
| 7 | 35" | 63" |

1 TYPICAL CONCRETE MASONRY UNIT DETAILS, SCHEDULES AND NOTES
 SCALE: 3/4" = 1'-0"

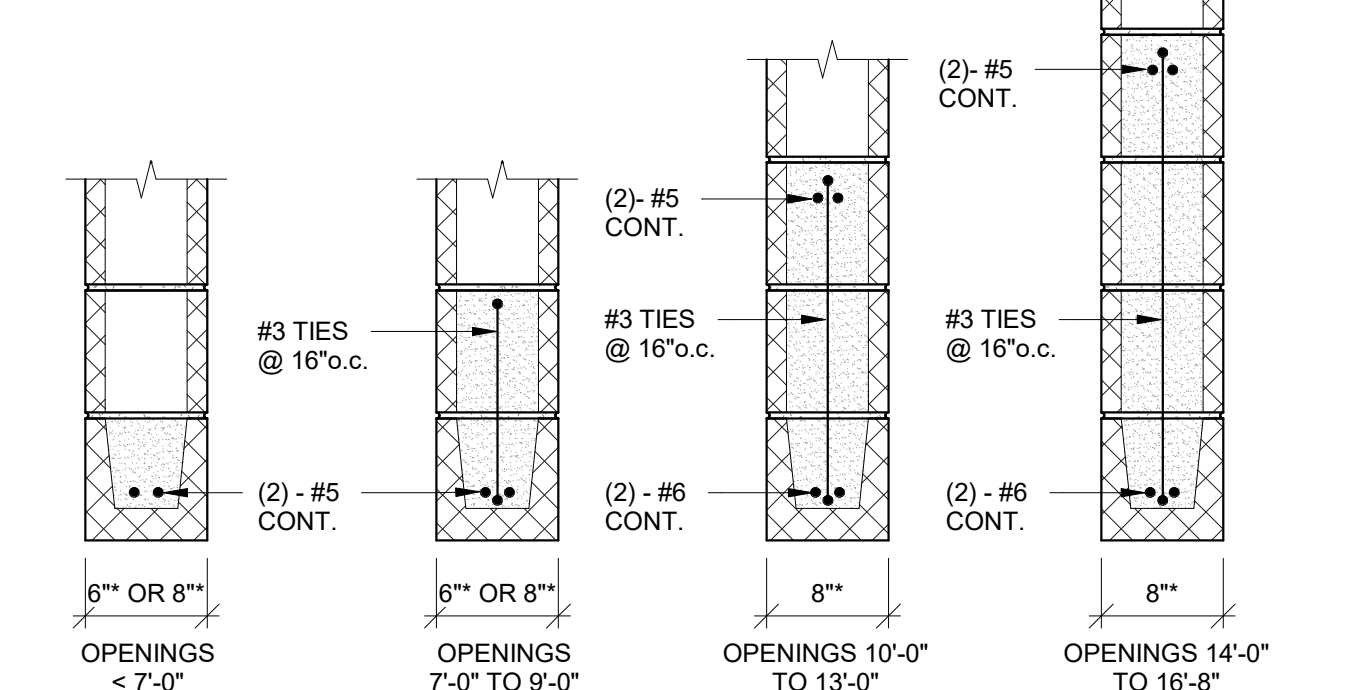


2A SECTION AT EXISTING EXTERIOR CMU WALL
 SCALE: 3/4" = 1'-0"

3 SECTION AT EXISTING INTERIOR NON-LOAD BEARING
 SCALE: 3/4" = 1'-0"



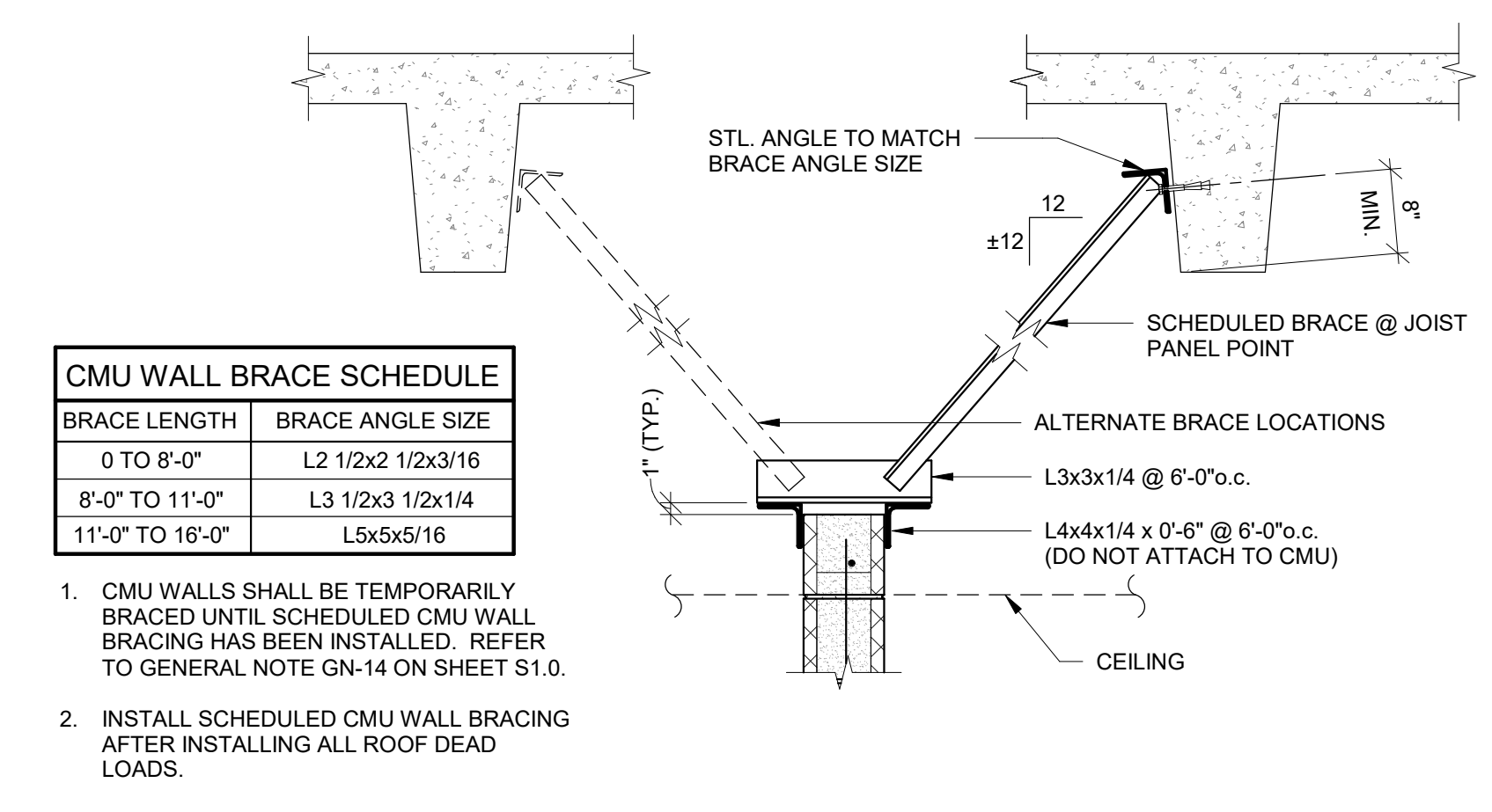
3 SECTION AT EXISTING INTERIOR NON-LOAD BEARING
 SCALE: 3/4" = 1'-0"



NOTES:

- FOR ALL OPENINGS IN INTERIOR BLOCK PARTITIONS AND FOR OPENINGS IN EXTERIOR BLOCK WALLS WITH NO SCHEDULED LINTELS. SEE ARCHITECT'S DRAWING FOR SIZE AND LOCATION OF OPENINGS. PROVIDE A MINIMUM OF 8" BEARING EACH END. REF. -- FOR LINTEL BEARING REQUIREMENTS AT "T" WALL INTERSECTIONS.
- * NOMINAL WALL THICKNESS, (TYP.)

4 REINFORCED BLOCK LINTELS
 SCALE: 1" = 1'-0"



| BRACE LENGTH | BRACE ANGLE SIZE |
|------------------|-------------------|
| 0 TO 8'-0" | L2 1/2x2 1/2x3/16 |
| 8'-0" TO 11'-0" | L3 1/2x3 1/2x1/4 |
| 11'-0" TO 16'-0" | L5x5x5/16 |

1. CMU WALLS SHALL BE TEMPORARILY BRACED UNTIL SCHEDULED CMU WALL BRACING HAS BEEN INSTALLED. REFER TO GENERAL NOTE GN-14 ON SHEET S1.0.

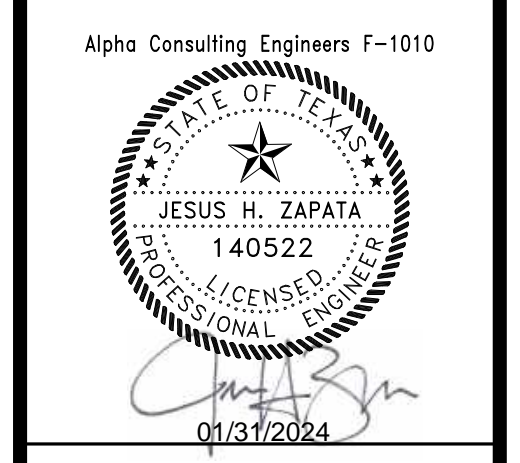
2. INSTALL SCHEDULED CMU WALL BRACING AFTER INSTALLING ALL ROOF DEAD LOADS.

5 TYPICAL CMU WALL BRACING DETAIL
 SCALE: 3/4" = 1'-0"

CMU WALL NOTES:

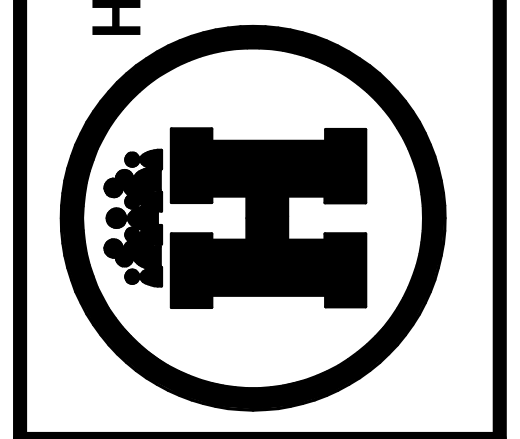
- REINFORCED CONCRETE MASONRY WALLS SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE CODE APPLICABLE EDITIONS OF THE AMERICAN CONCRETE INSTITUTE "BUILDING CODE REQUIREMENTS OF MASONRY STRUCTURES" (TMS 402), THE "SPECIFICATION FOR MASONRY STRUCTURES" (TMS 602) AND ASSOCIATED COMMENTARIES FOR THE ABOVE.
- UNLESS NOTED OTHERWISE, ALL CONCRETE MASONRY UNITS (CMU) SHALL HAVE A SPECIFIED MINIMUM COMPRESSIVE STRENGTH OF 1900 PSI WITH A MAXIMUM LINEAR SHRINKAGE OF 0.06% CONFORMING TO ASTM C90 TYPE I, WEIGHING NOT MORE THAN 105 PCF DRY.
- ALL MORTAR SHALL BE ASTM C-270 TYPE "N" MORTAR MIXED BY PROPORTION METHOD.
- ALL CMU WALLS SHALL BE LAID WITH FULL MORTAR COVERAGE ON HORIZONTAL AND VERTICAL FACE SHELLS, AND ALL WEBS.
- MASONRY UNITS SHALL BE DRY WHEN LAID. EACH UNIT SHALL BE ADJUSTED TO FINAL POSITION IN THE WALL WHILE MORTAR IS STILL SOFT AND PLASTIC. ANY UNIT DISTURBED AFTER MORTAR HAS STIFFENED SHALL BE REMOVED AND RELAYED WITH FRESH MORTAR. VERTICAL CELLS TO BE REINFORCED AND/OR FILLED WITH GROUT SHALL BE ALIGNED TO PROVIDE A CONTINUOUS UNOBSTRUCTED OPENING OF THE FULL CELL DIMENSIONS. CHASES SHALL BE BUILT IN AND NOT CUT IN. CHASES SHALL BE PLUMB AND SHALL BE MINIMUM ONE UNIT LENGTH FROM JAMBS OF OPENINGS. ANCHORS, WALL PLUGS, ACCESSORIES AND OTHER ITEMS TO BE BUILT IN SHALL BE INSTALLED AS THE MASONRY WORK PROGRESSES. ALL CUTTING AND FITTING OF MASONRY, INCLUDING THAT REQUIRED TO ACCOMMODATE WORK OF OTHER SECTIONS SHALL BE DONE BY MASONRY MECHANICS WITH MASONRY SAWS.
- GROUT FOR FILLED CELLS, LINTELS AND BOND BEAM SHALL BE A MIXTURE OF CEMENT, SAND, AND PEA GRAVEL PROPORTION AND GROUT SHALL CONFORM TO ASTM C-476. (2,000 PSI MIN.)
- REINFORCE ALL CONCRETE MASONRY UNITS WITH TRUSS TYPE HOT DIP GALVANIZED COLD-DRAWN STEEL CONFORMING TO ANSI/ASTM A82, 3/16 INCH SIDE RODS WITH 3/16 INCH CROSS TIES SPACED AT 16" o.c. OVERLAP 6" @ SPLICE.
- ALL VERTICAL STEEL SHALL BE POSITIONED IN WALL USING "REBAR POSITIONERS" BY AA WIRE PRODUCTS CO. OR REVIEWED EQUAL.
- PROVIDE CLEANOUTS AT BOTTOM OF EACH REINFORCED CELL IN ACCORDANCE WITH THE SPECIFICATIONS.
- ALL MASONRY REINFORCEMENT SHALL BE NEW DOMESTIC DEFORMED BILLET STEEL, CONFORMING TO ASTM A615, GRADE 60, EXCEPT WELDABLE REBARS ASTM A706, GR 60. REFER TO THE ADJACENT TABLE FOR REBAR LAP IN MASONRY.

Alpha Consulting Engineers
 8023 Vantage Drive
 Suite 1101, San Antonio, TX 78230
 O 210.227.3647
 Alpha Project No. S23076
 F-1010



ARCHITECTURA S.A., INC.
 ARCHITECTURE INTERIOR DESIGN PLANNING
 17038 REDLAND RD., SUITE 101, SAN ANTONIO, TEXAS 78247
 t. 210.384.8200 f. 210.319.3555
 architecturasaa@yahoo.com

HISD CAREER TECHNOLOGY EDUCATION (CTE)
 HARLANDALE INDEPENDENT SCHOOL DISTRICT
 519 W HARDING BLVD.
 SAN ANTONIO, TX 78221



Drawn By: A.G.
 Checked By: J.Z.
 Job Number: 23-09

SECTIONS AND DETAILS

| No. | DATE | DESCRIPTION |
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Date: 01/31/2024
 Drawing No:

S-302

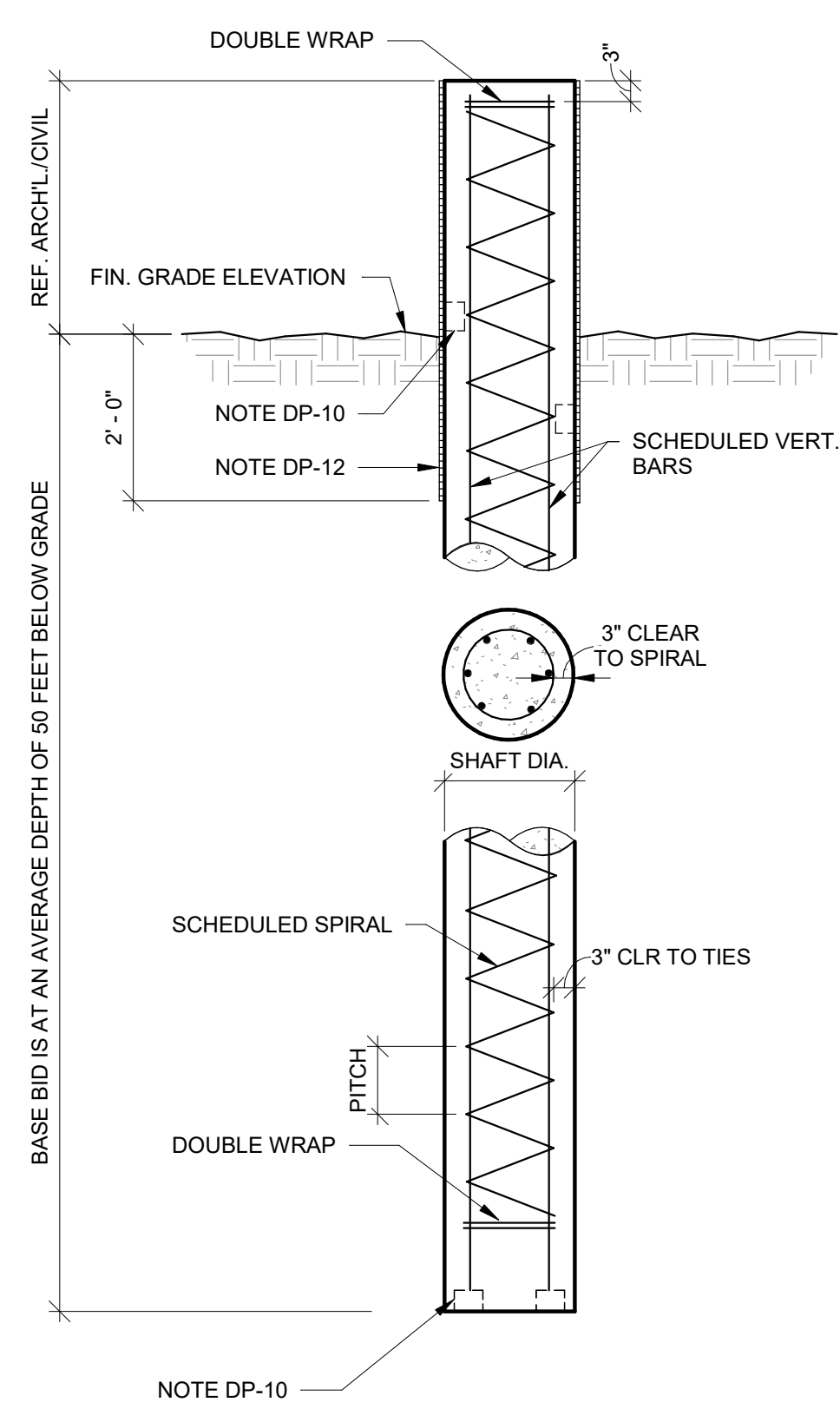


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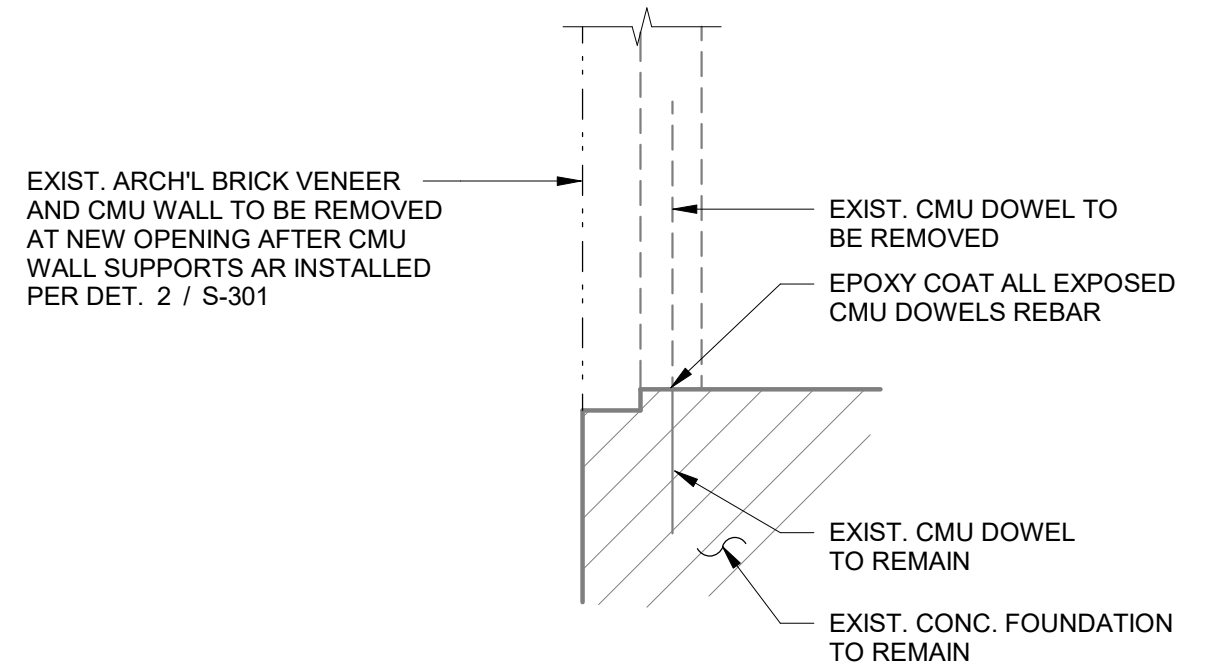
DRILLED PIER NOTES

- ALL PIERS SHALL BE INSPECTED BY A GEOTECHNICAL ENGINEER TO BE HIRED BY THE OWNER PRIOR TO PLACING REINFORCING STEEL AND CONCRETE IN ORDER TO ASSURE THAT THE BEARING SURFACES ARE CONSISTENT WITH DESIGN RECOMMENDATIONS. ALPHA CONSULTING ENGINEERS IS NOT RESPONSIBLE FOR THE HIRING AND SERVICE COSTS ASSOCIATED THEREIN.
- PROVIDE INSPECTING ENGINEER WITH AN ELECTRIC LIGHT AND PLUMB-BOB TO OBSERVE ALL PIER EXCAVATIONS.
- ALL PIER EXCAVATIONS SHALL BE FREE OF WATER PRIOR TO PLACING CONCRETE.
- PIER HOLES SHALL NOT BE LEFT OPEN OVERNIGHT (NO EXCEPTIONS). PIERS SHALL BE POURED THE SAME DAY THEY ARE DRILLED.
- PROVIDE STEEL CASING AS REQUIRED, TO PREVENT EXCAVATION SLOUGHING AND/OR SUBSURFACE WATER SEEPAGE. STEEL CASING MAY BE REMOVED DURING CONCRETE PLACEMENT SEQUENCE PROVIDING THERE IS ENOUGH CONCRETE HEAD TO PREVENT SLOUGHING SOIL FROM PENETRATING INTO THE PIER AREA.
- ANY CONSTRUCTION JOINT IN THE PIER SHAFT MUST OCCUR AT LEAST 6 INCHES ABOVE GRADE ELEVATION.
- CONCRETE PLACEMENT SHALL BE MADE WITH A TREMIE WITH AT LEAST A 6 FOOT HOSE OR METAL SNOT.
- CENTER CAGE IN HOLE WITH 3" CONC. SPACER BLOCKS EVERY 8 FT. OR 3" SPACER WHEELS. SUPPORT CAGE ON 3 CONC. SEAT BLOCKS OR 3" PLASTIC BOOTS. DO NOT RAISE CAGE OFF DRILLED PIER BOTTOM.
- MACHINE CLEAN BOTTOM OF REAM.
- EXTEND PIER SHAFTS USING SONOTUBE ABOVE WORKING GRADE. USE SONOTUBE TO AN ELEVATION 2'-0" BELOW WORKING GRADE AT TIME OF DRILLING. REFER TO SPECS. FOR CONDITIONS REQUIRING ADDITIONAL SONOTUBE AND FOR CONSTRUCTION JOINT.
- PROVIDE UNIT PRICING FOR PIERS REQUIRING TEMPORARY STEEL CASING. REFER TO PROJECT SPECIFICATIONS FOR UNIT PRICING AND CASING PROCEDURE.
- HIGH TORQUE, HIGH POWER DRILLING EQUIPMENT AND ROCK AUGERS WILL BE REQUIRED.
- THE FOLLOWING VALUES WERE ASSUMED FOR DESIGN AND WILL NEED TO BE CONFIRMED BY A GEOTECHNICAL ENGINEER:
 ALLOWABLE BEARING PRESSURE = 800 PSF
 SKIN FRICTION = 500 PSF
 UPLIFT RESISTANCE = 600 PSF
 THE TOP 17 FT WERE NEGLECTED IN DESIGN TO ALLOW FOR AN ACTIVE ZONE. AN UPLIFT FORCE EQUIVALENT TO 65'D (WHERE D IS IN FT) WAS APPLIED TO THE DESIGN.

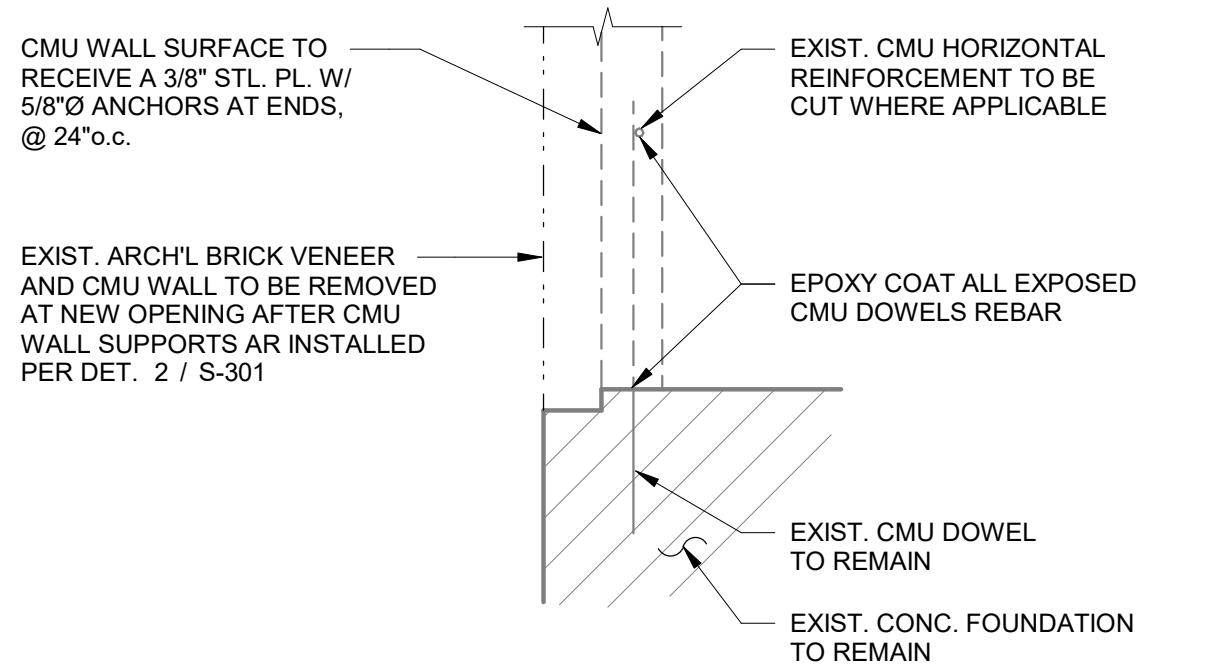
| DRILLED PIER SCHEDULE | | |
|-----------------------|------------|-----------------|
| DIAM. | VERT. BARS | SPIRAL |
| 24" | 8 # 6 | 3/8 @ 12" PITCH |



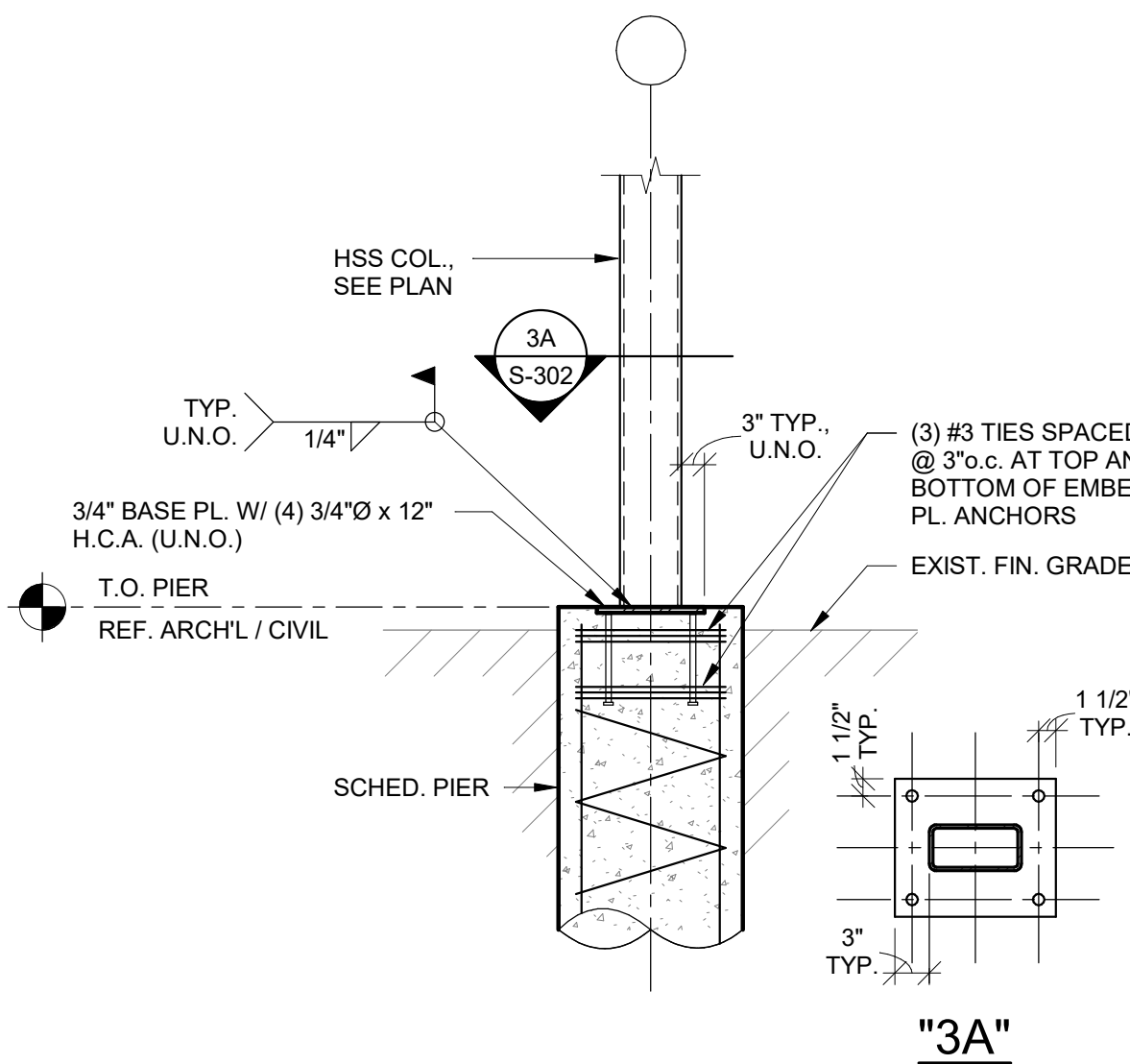
4 TYP. DRILLED PIER DETAIL & NOTES
 SCALE : 1/2" = 1'-0"



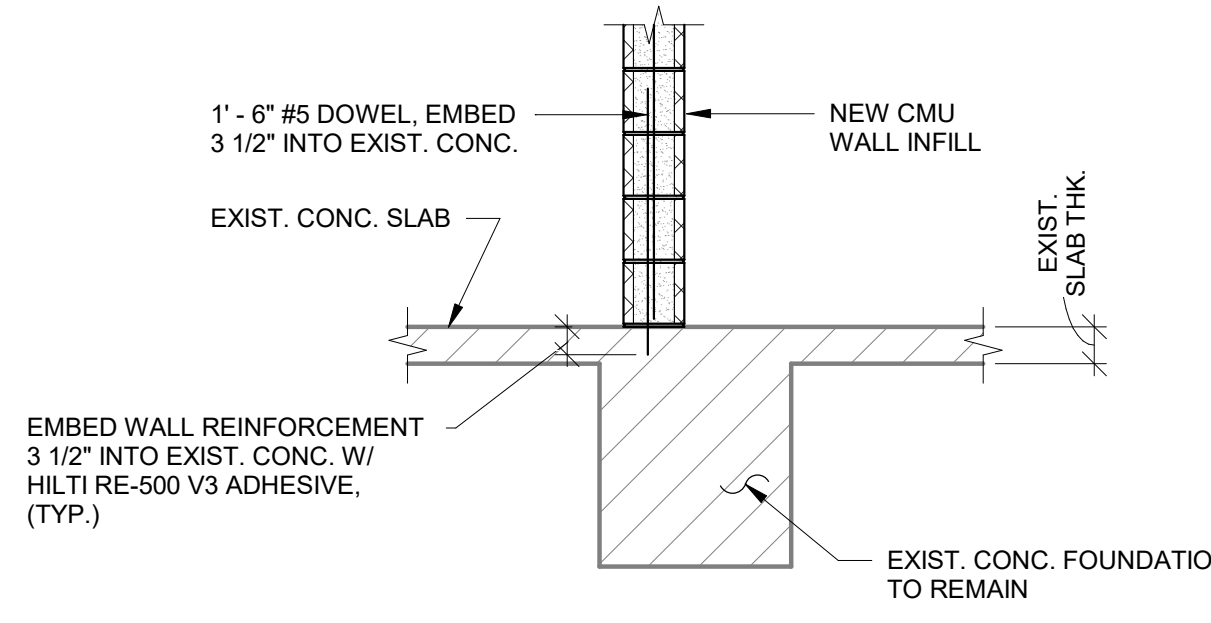
1 SECTION
 SCALE : 1/2" = 1'-0"



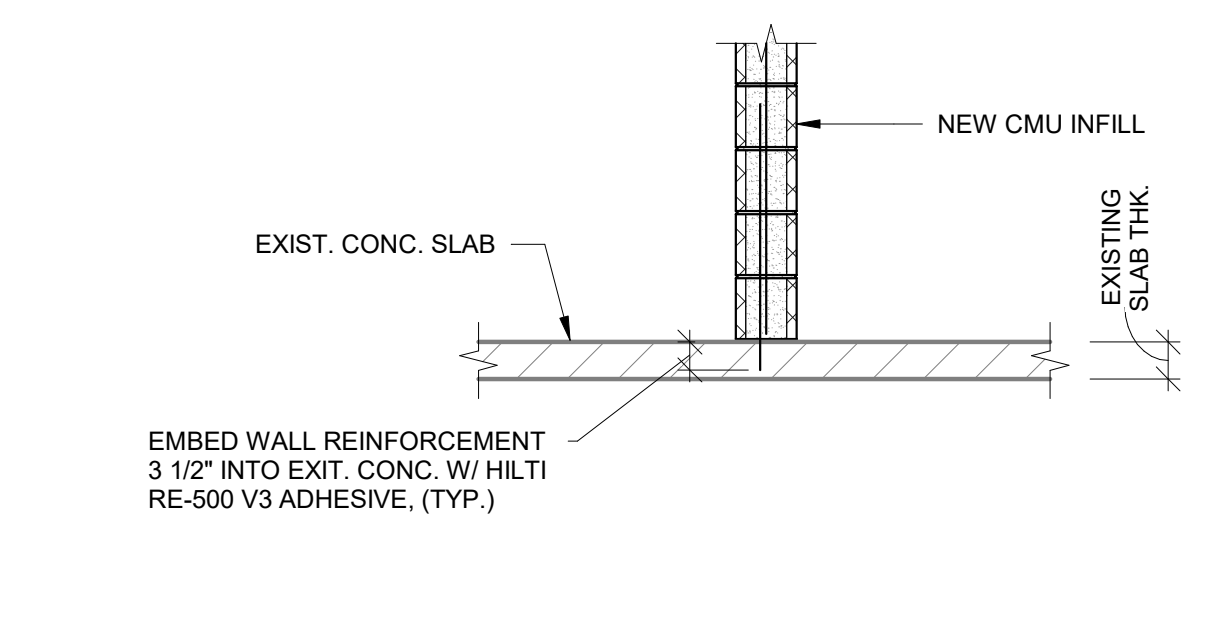
2 SECTION
 SCALE : 1/2" = 1'-0"



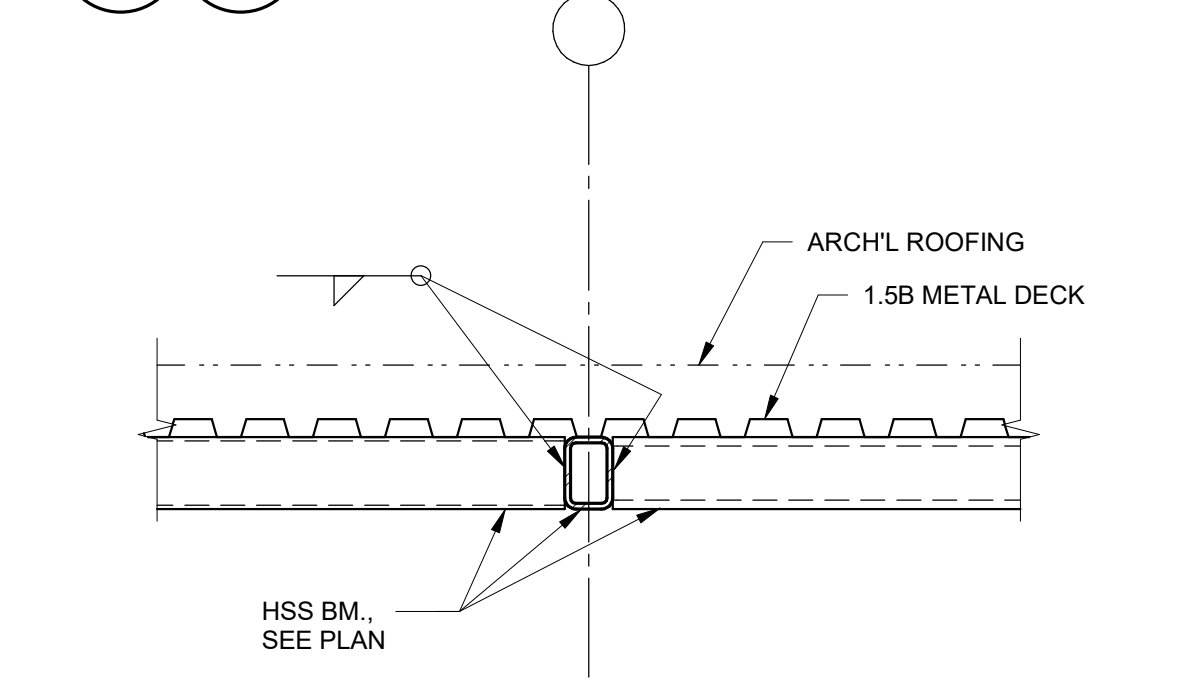
3 3A SECTION
 SCALE : 1/2" = 1'-0"



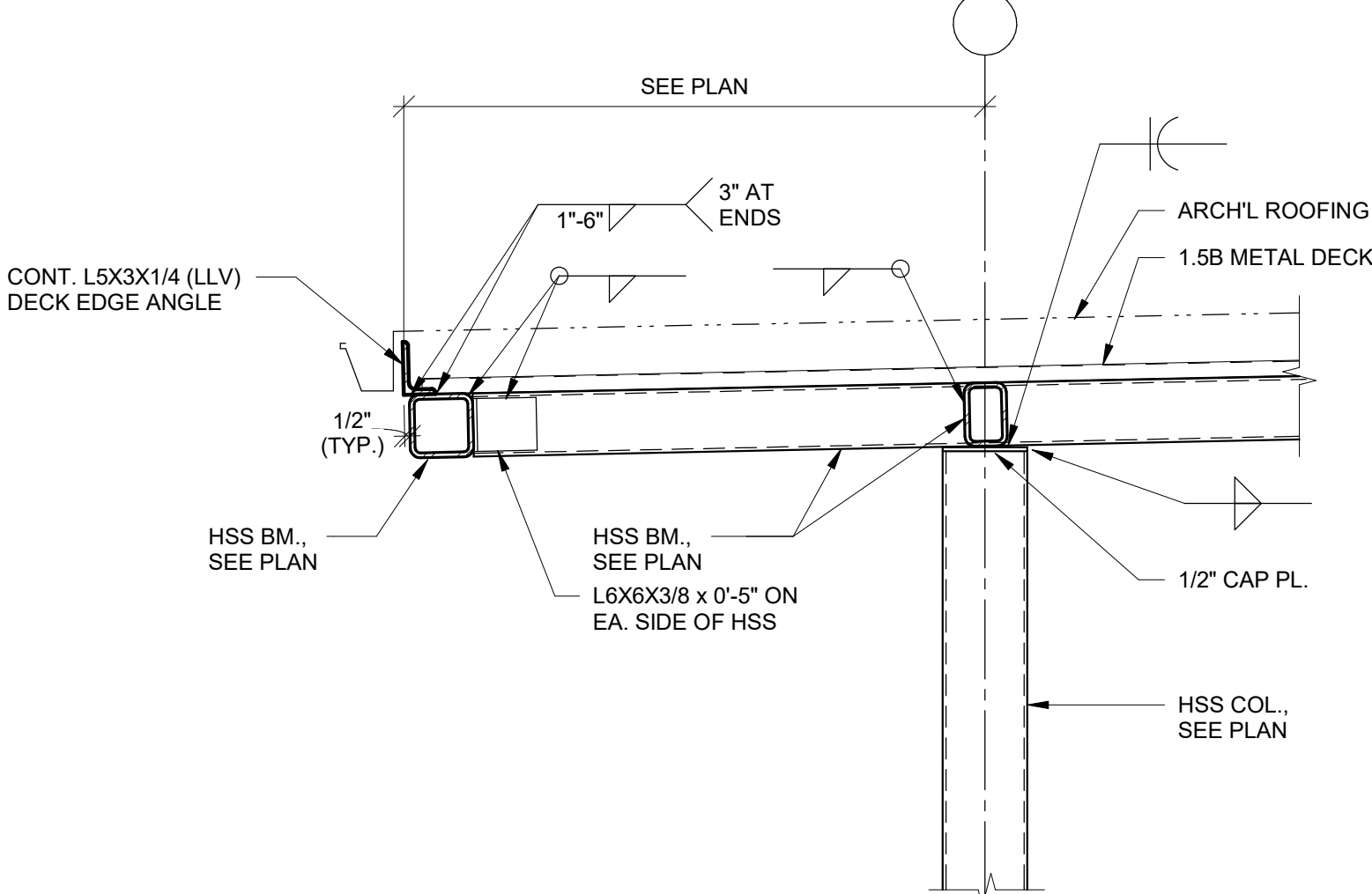
5 SECTION
 SCALE : 1/2" = 1'-0"



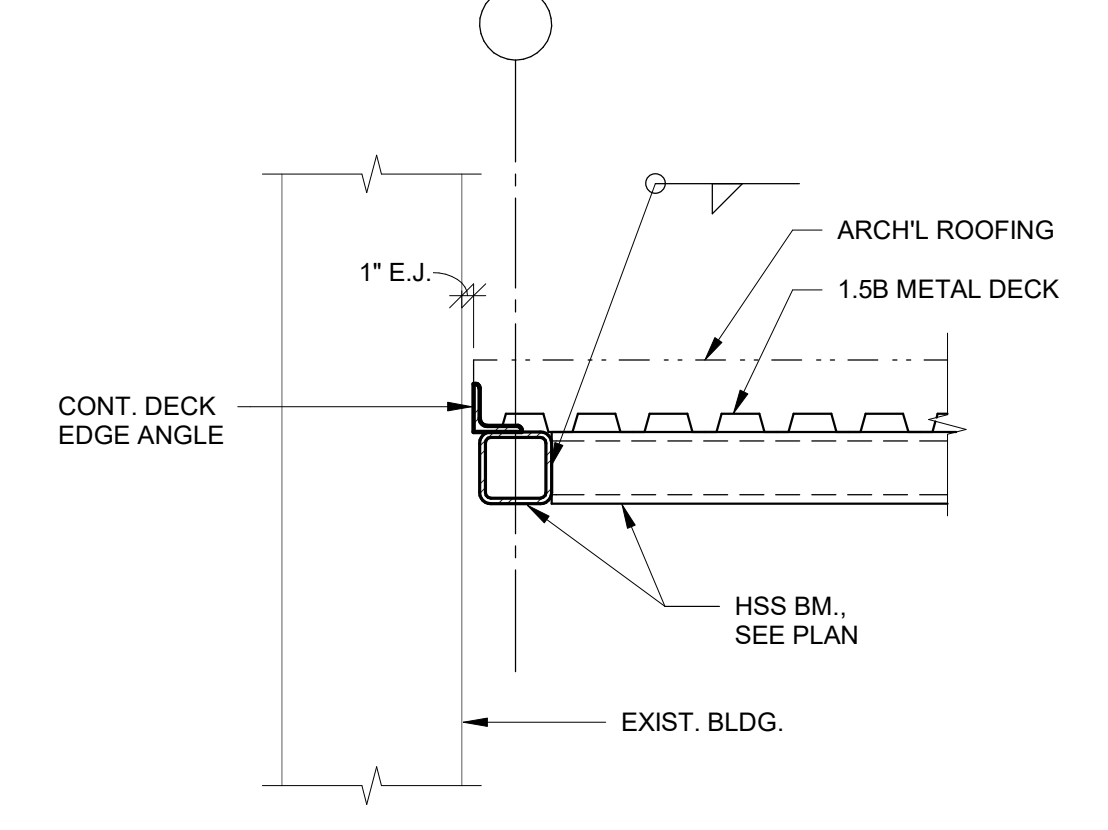
6 SECTION
 SCALE : 1/2" = 1'-0"



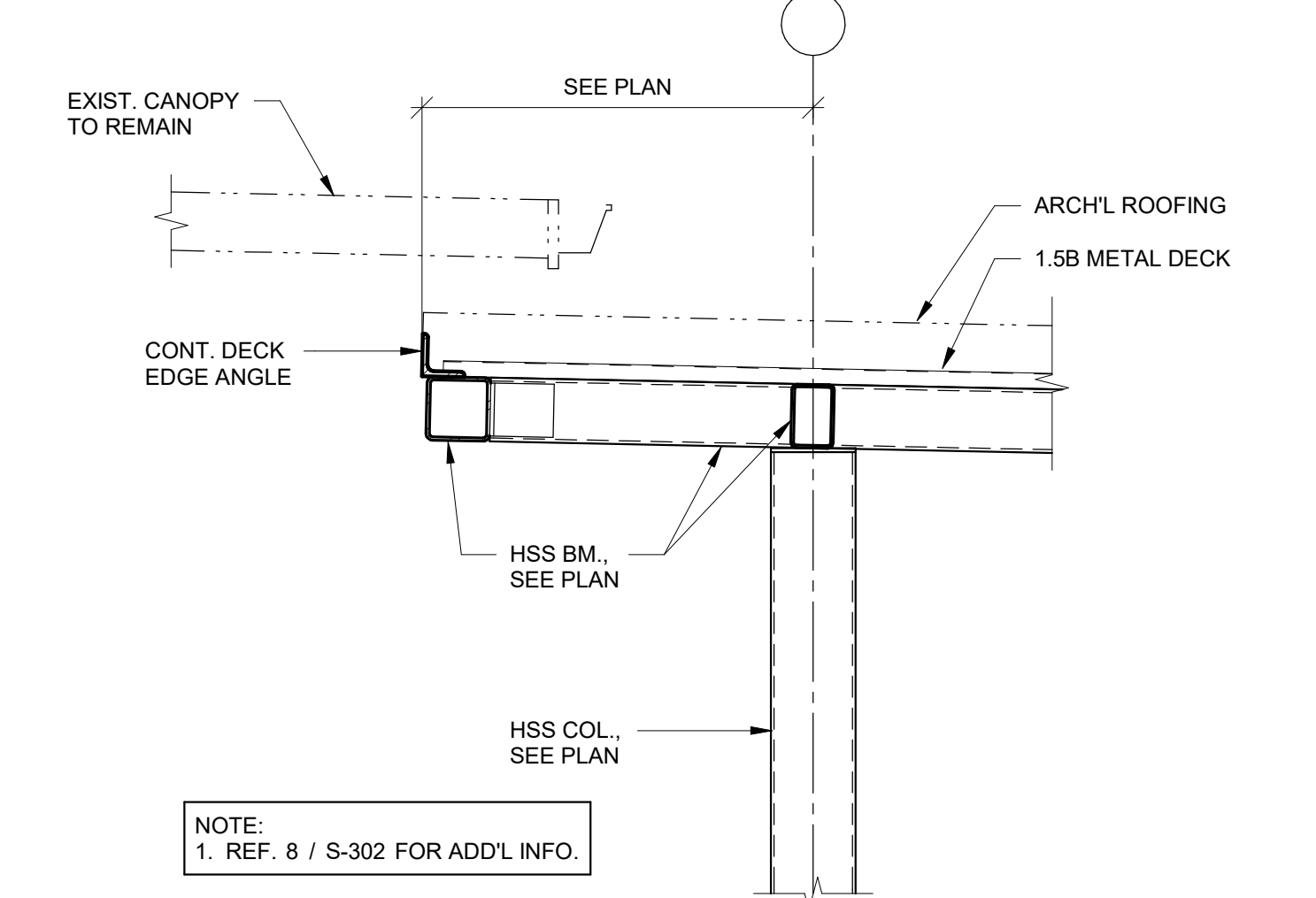
7 SECTION
 SCALE : 3/4" = 1'-0"



8 SECTION
 SCALE : 3/4" = 1'-0"



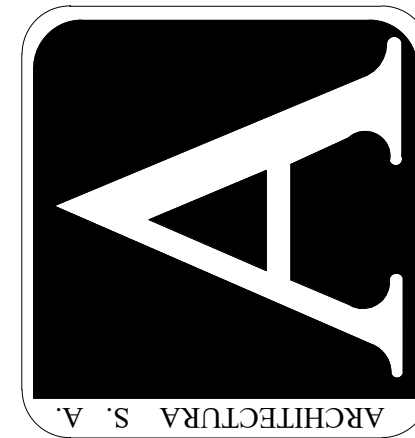
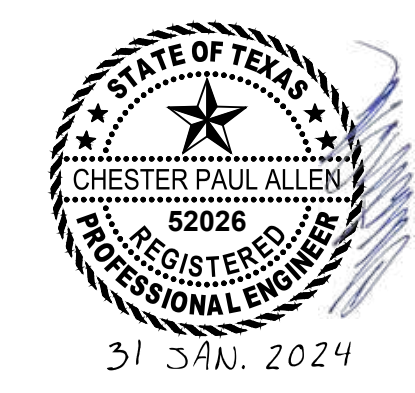
9 SECTION
 SCALE : 3/4" = 1'-0"



10 SECTION
 SCALE : 3/4" = 1'-0"

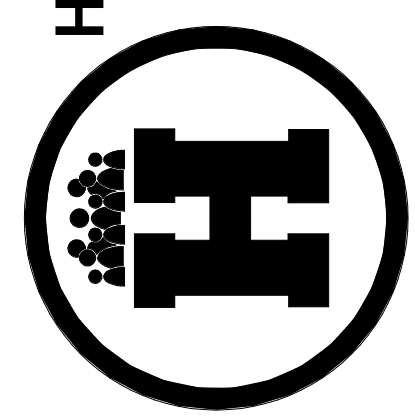
NOTE:
 1. REF. 8 / S-302 FOR ADD'L INFO.

ENGINEERING & SKYE MEP
 COMMISSIONING
 8610 Broadway, Suite 415
 San Antonio, Texas 78217
 State of Texas Firm Registration No. F-19468



ARCHITECTURA S.A., INC.
 ARCHITECTURE INTERIOR DESIGN PLANNING
 17038 REDLAND RD., SUITE 101, SAN ANTONIO, TEXAS 78247
 t. 210.384.8200 f. 210.319.3555
 architecturasaa@yahoo.com

HISD CAREER TECHNOLOGY EDUCATION (CTE)
 HARLANDALE INDEPENDENT SCHOOL DISTRICT
 519 W HARDING BLVD.
 SAN ANTONIO, TX 78221



Drawn By: JPD
 Checked By: CPA
 Job Number: 2023.113

MECHANICAL MEP & WELDING SHOP - DEMO AND NEW WORK

| No. | DATE | DESCRIPTION |
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Date: 01/31/2024
 Drawing No:

M-1.1

MECHANICAL DEMOLITION KEYED NOTES

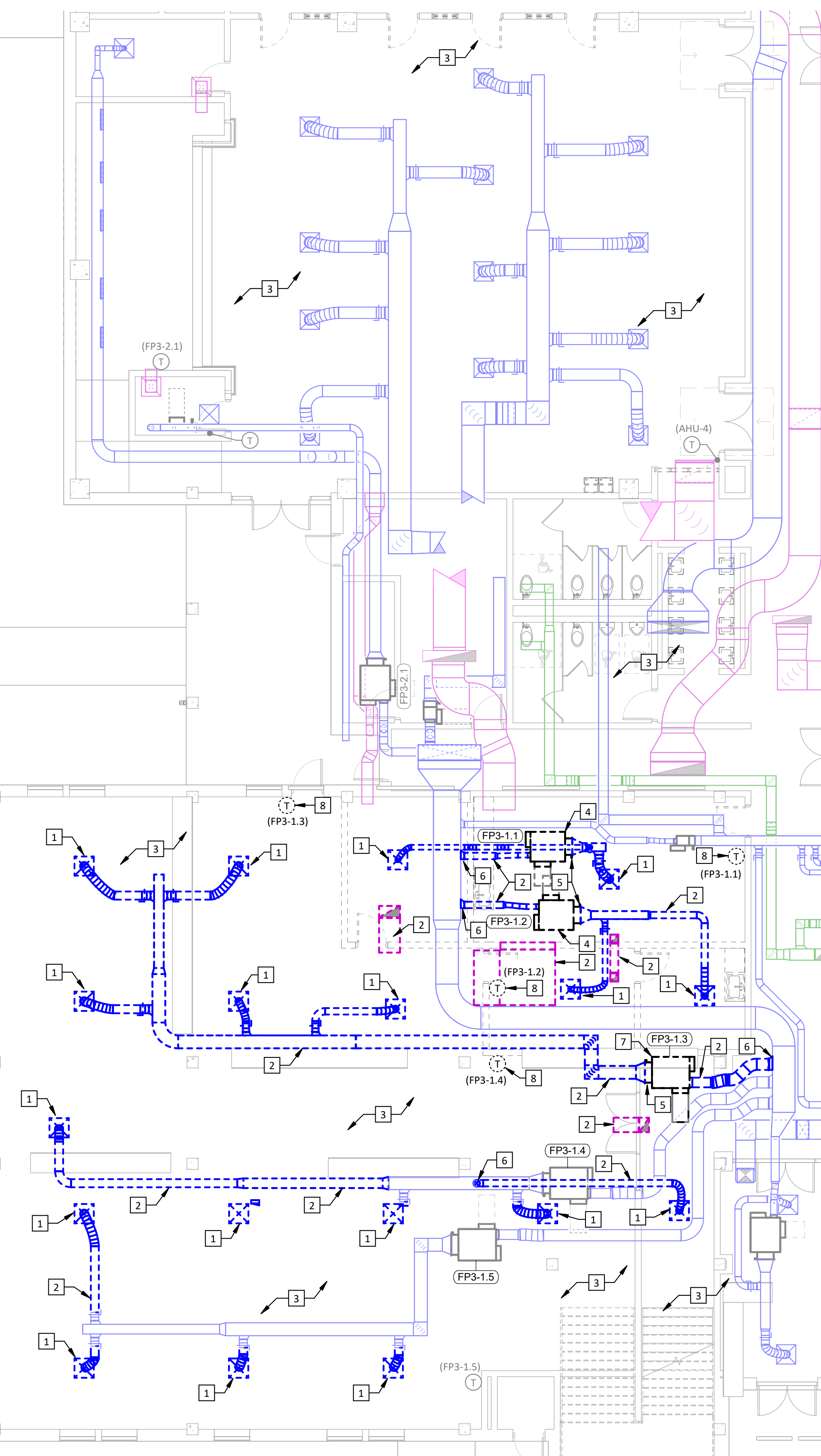
- 1 REMOVE EXISTING GRILLES, ASSOCIATED FLEX DUCT, AND ASSOCIATED HANGERS AND SUPPORTS.
- 2 REMOVE EXISTING INDICATED DUCTWORK AND ASSOCIATED HANGERS AND SUPPORTS.
- 3 FACILITIES NOT SHOWN TO BE REMOVED OR NOT SHOWN SHALL REMAIN IN SERVICE.
- 4 REMOVE EXISTING FAN POWERED BOX, ASSOCIATED HANGERS, ELECTRICAL, AND HOT WATER PIPING.
- 5 REMOVE EXISTING HOW WATER PIPING BACK TO MAIN AND CAP. RESTORE INTEGRITY OF HOT WATER PIPING.
- 6 REMOVE EXISTING DUCT TAP, PATCH AND REPAIR SUPPLY AIR MAIN DUCT TO MATCH SURROUNDING CONDITIONS. RESTORE INTEGRITY OF DUCT INSULATION AND VAPOR BARRIER.
- 7 REMOVE AND RELOCATE EXISTING FAN POWERED BOX. DISCONNECT FROM EXISTING ELECTRICAL, HOT WATER PIPING, AND CONTROLS.
- 8 REMOVE EXISTING TEMPERATURE SENSOR.

MECHANICAL NEW WORK KEYED NOTES

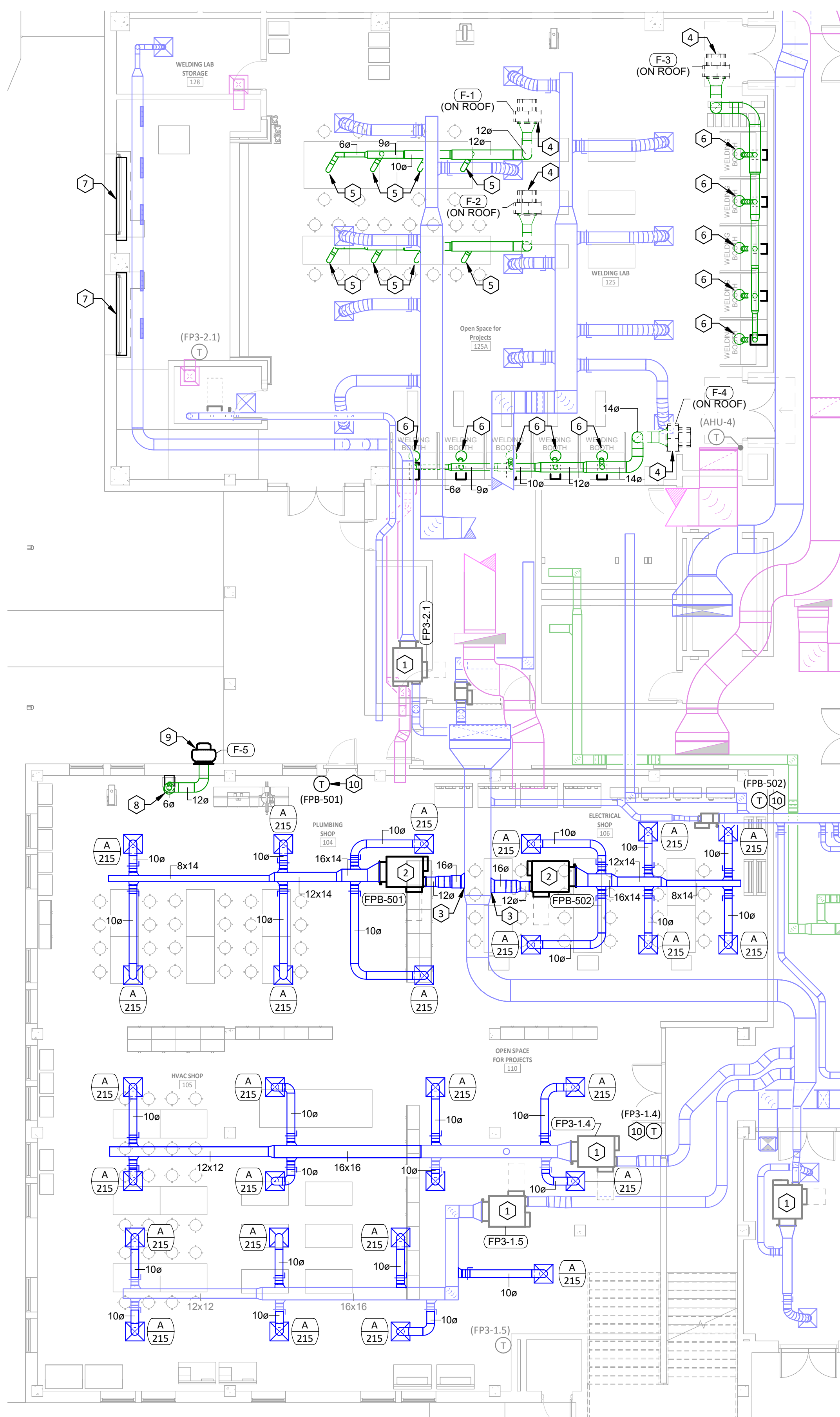
- 1 EXISTING FAN POWERED BOX.
- 2 PROVIDE NEW FAN POWERED BOX.
- 3 CONNECT NEW SUPPLY DUCT TO EXISTING DUCTWORK OVERHEAD IN THIS VICINITY, RESTORE INTEGRITY OF DUCT INSULATION AND VAPOR BARRIER.
- 4 NEW ROOF-MOUNTED UTILITY VENT SET EXHAUST FAN. REFER TO DETAIL 2, SHEET M-2.2 FOR CURB AND DISCONNECT INSTALLATION.
- 5 FURNISH AND INSTALL NEW 14 FOOT LONG, 6 INCH DIAMETER SOURCE CAPTURE ARM. REFER TO DETAIL 1 & 4, SHEET M-2.2 FOR INSTALLATION.
- 6 FURNISH AND INSTALL NEW 6-INCH DIAMETER WALL-MOUNTED SOURCE CAPTURE ARM. REFER TO DETAIL 6, SHEET M-2.2 FOR INSTALLATION DETAILS.
- 7 DDC CONTRACTOR SHALL INSTALL ROLL-UP DOOR CONTACT CLOSURE SWITCH AND MODIFY CONTROL SEQUENCE FOR AHU-4 TO CLOSE CHILLED WATER CONTROL VALVE WHEN ROLL-UP DOOR IS OPENED FOR MORE THAN 10 MINUTES (ADJUSTABLE).
- 8 FURNISH AND INSTALL NEW 6-INCH DIAMETER WALL-MOUNTED SOURCE CAPTURE ARM. REFER TO DETAIL 5, SHEET M-2.2 FOR INSTALLATION DETAILS.
- 9 FURNISH AND INSTALL NEW WALL-MOUNTED EXHAUST FAN.
- 10 MOUNT NEW TEMPERATURE SENSOR ON WALL IN THIS VICINITY.

FAN POWERED BOXES (AHU-3)

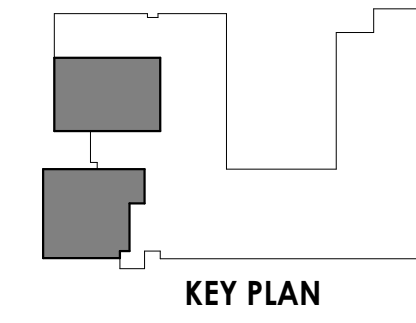
| FP-#### | MAX. CFM (PRIMARY AIR) | MIN. CFM (PRIMARY AIR) |
|---------|------------------------|------------------------|
| FPB-501 | 1290 | 1290 |
| FPB-502 | 1290 | 1290 |



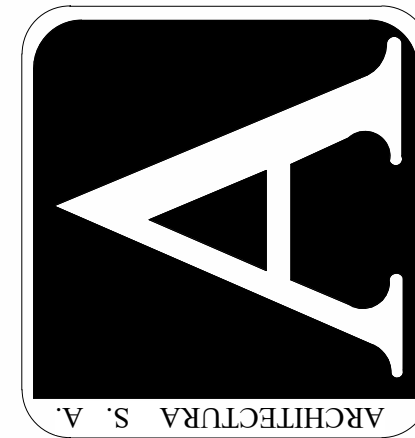
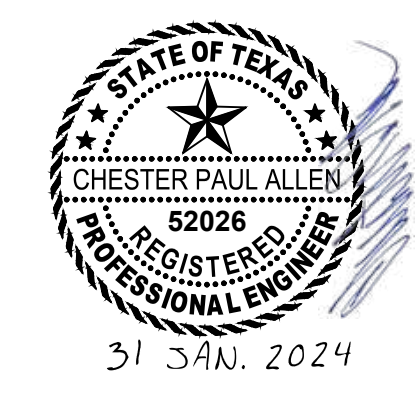
1 MECHANICAL DEMOLITION - MEP & WELDING
 Mechanical
 1/8" = 1'-0"
 NORTH



2 MECHANICAL NEW WORK - MEP & WELDING
 Mechanical
 1/8" = 1'-0"
 NORTH

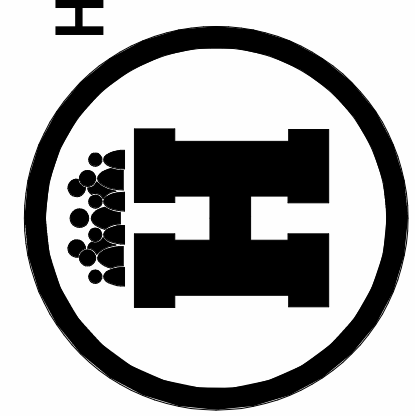


ENGINEERING & SKYE MEP
 COMMISSIONING
 8610 Broadway, Suite 415
 San Antonio, Texas 78217
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ARCHITECTURA S.A., INC.
 ARCHITECTURE INTERIOR DESIGN PLANNING
 17038 REDLAND RD., SUITE 101, SAN ANTONIO, TEXAS 78247
 t. 210.384.8200 f. 210.319.3555
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 519 W HARDING BLVD.
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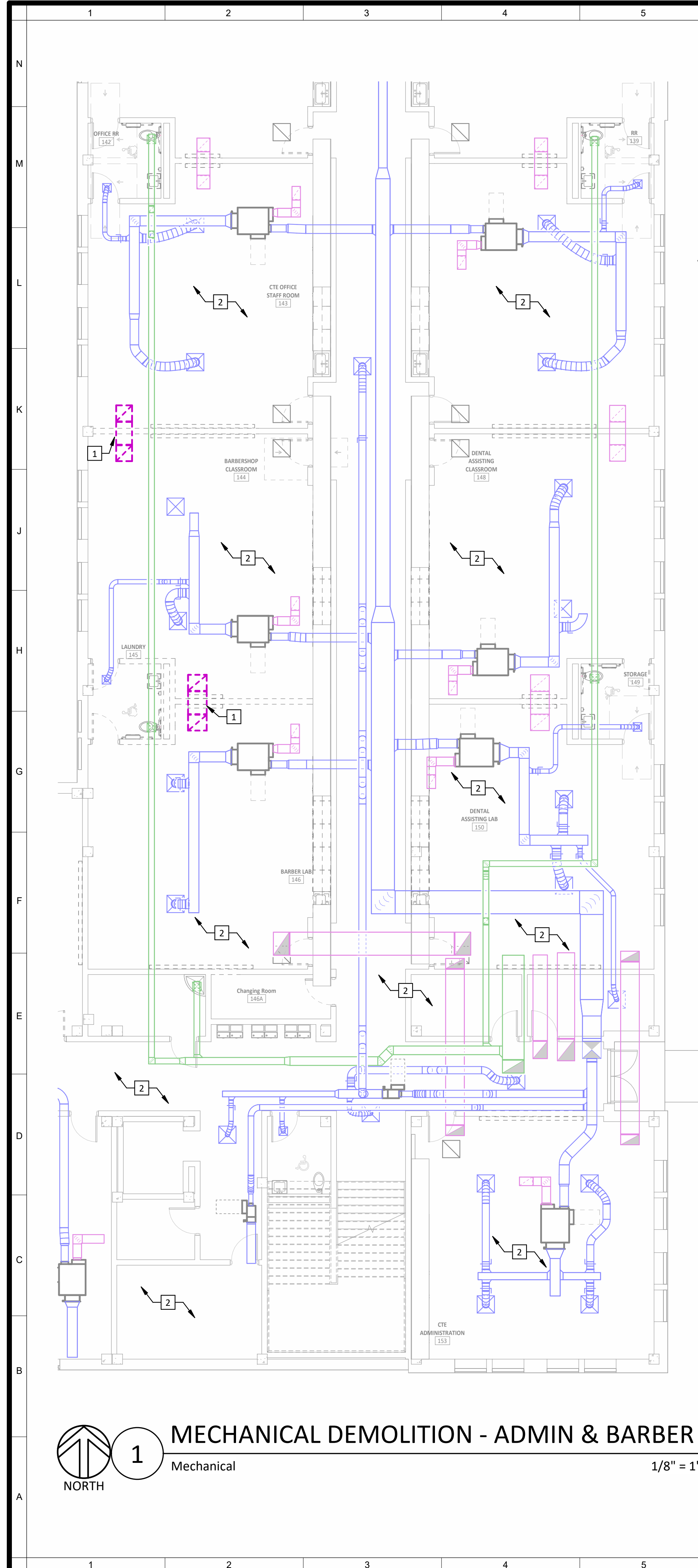
Drawn By: JPD
 Checked By: CPA
 Job Number: 2023.113

MECHANICAL ADMIN & BARBER - DEMO AND NEW WORK

| No. | DATE | DESCRIPTION |
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Date: 01/31/2024
 Drawing No:

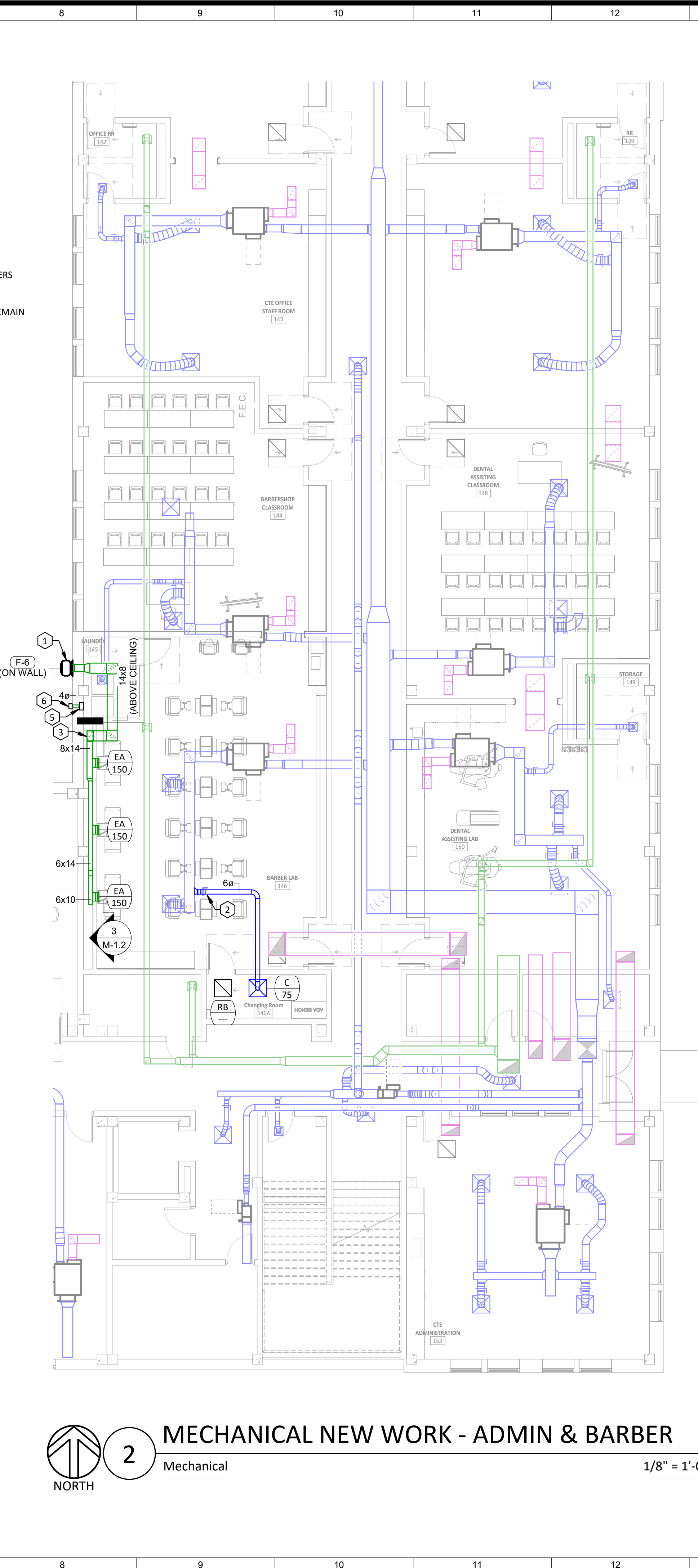
M-1.2



MECHANICAL DEMOLITION KEYED NOTES:

- 1 REMOVE EXISTING INDICATED DUCTWORK AND ASSOCIATED HANGERS AND SUPPORTS.
- 2 FACILITIES NOT SHOWN TO BE REMOVED OR NOT SHOWN SHALL REMAIN IN SERVICE.

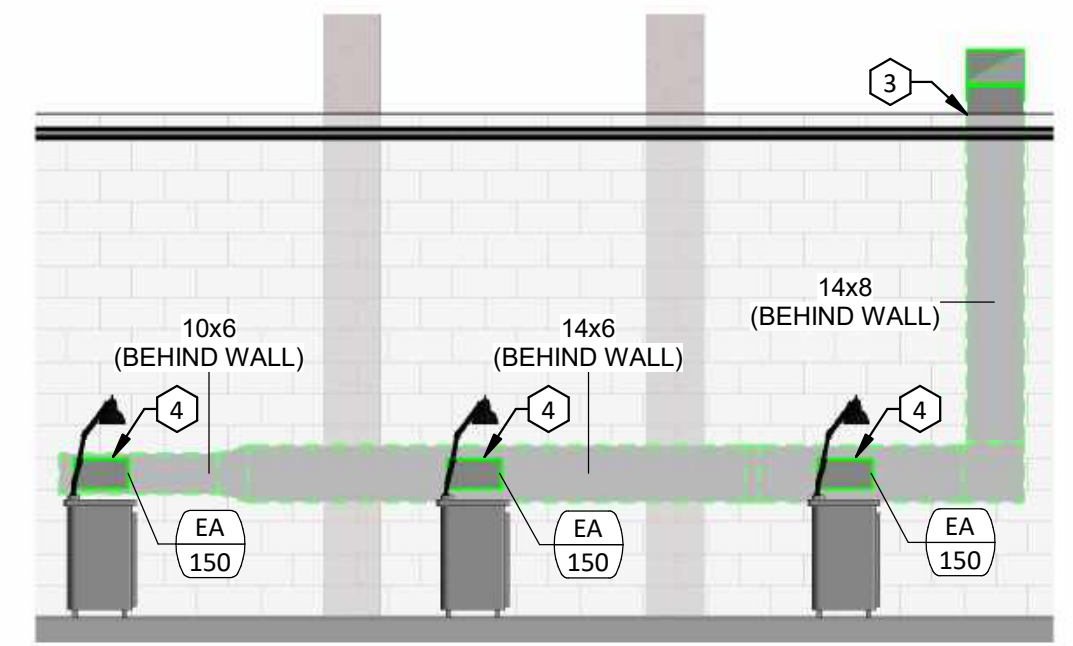
1 MECHANICAL DEMOLITION - ADMIN & BARBER
 Mechanical 1/8" = 1'-0"



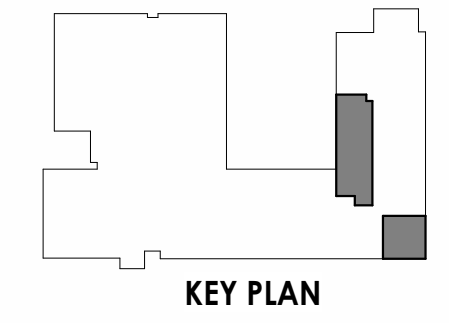
MECHANICAL NEW WORK KEYED NOTES:

- 1 NEW WALL-MOUNTED EXHAUST FAN.
- 2 CONNECT NEW SUPPLY DUCT TO EXISTING DUCTWORK OVERHEAD IN THIS VICINITY, RESTORE INTEGRITY OF DUCT INSULATION AND VAPOR BARRIER.
- 3 ROUTE EXHAUST DUCT DOWN THRU CHASE.
- 4 COORDINATE GRILLE MOUNTING HEIGHT, GRILLE COLOR AND FINISH WITH ARCHITECT.
- 5 PROVIDE DRYER VENTING BOX EQUAL TO "DVBOX" 17.4 x 11.5 x 4.5. REFER TO DETAIL 6, M-2.1.
- 6 PROVIDE 4-INCH DIAMETER DRYER VENT. TERMINATE DRYER VENT WITH A HOODED WALL CAP.

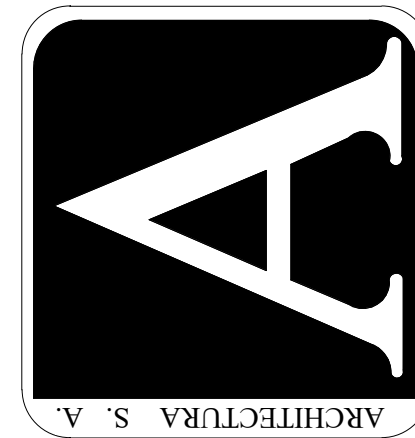
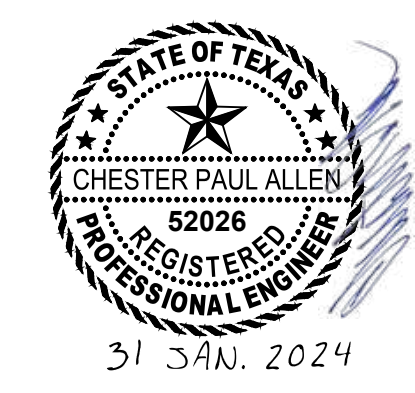
2 MECHANICAL NEW WORK - ADMIN & BARBER
 Mechanical 1/8" = 1'-0"



3 EXHAUST SYSTEM AT MANICURE STATIONS
 Coordination 1/4" = 1'-0"

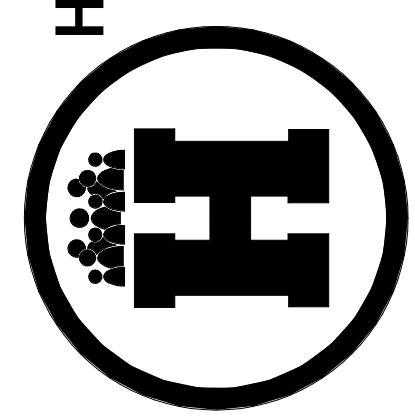


ENGINEERING &
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17038 REDLAND RD., SUITE 101, SAN ANTONIO, TEXAS 78247
t. 210.384.8200 f. 210.319.3555
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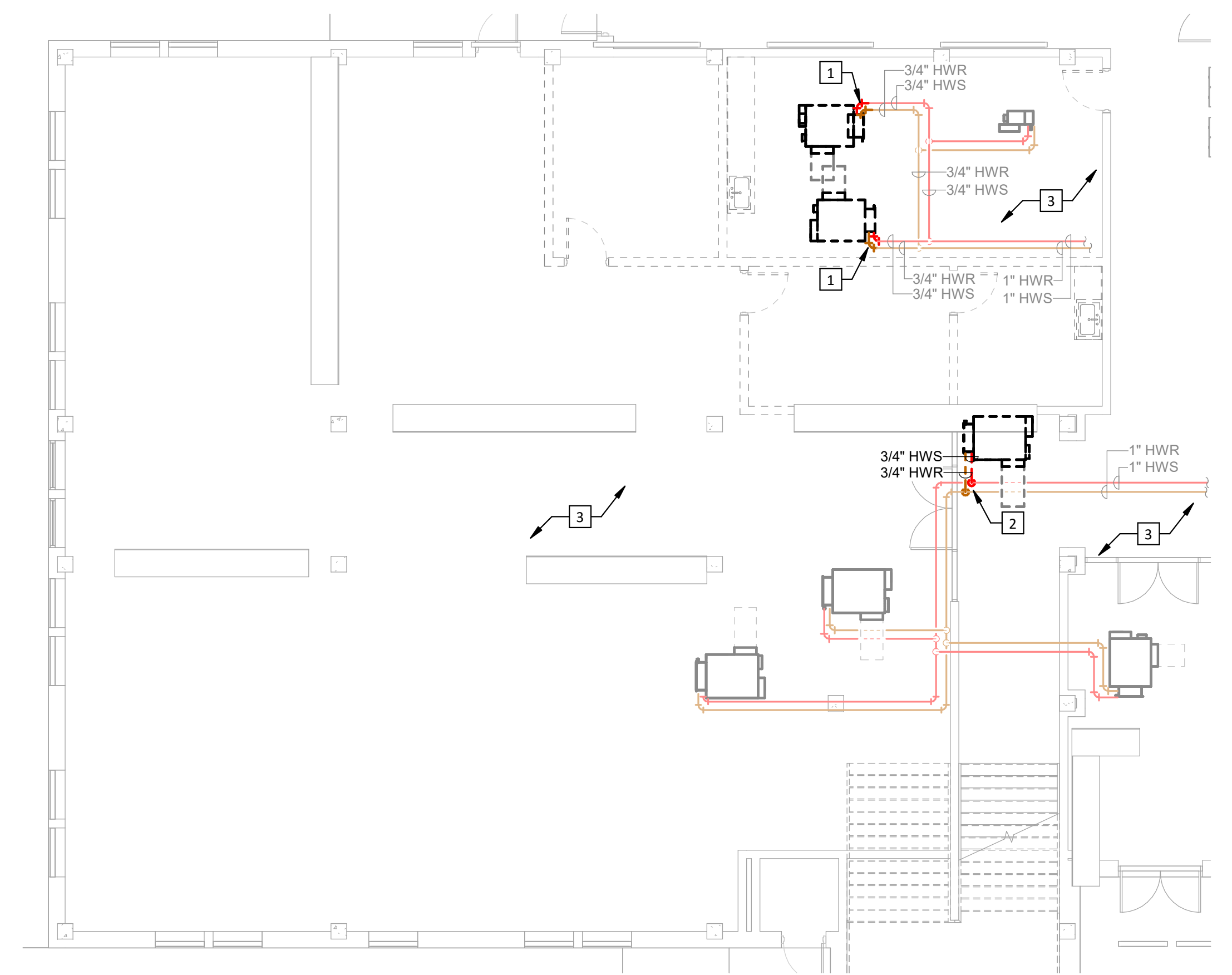
Drawn By: JPD
Checked By: CPA
Job Number: 2023.113

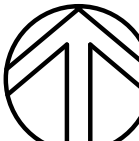
HYDRONIC MEP SHOP -
DEMO AND NEW WORK

| No. | DATE | DESCRIPTION |
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Date: 01/31/2024
Drawing No:

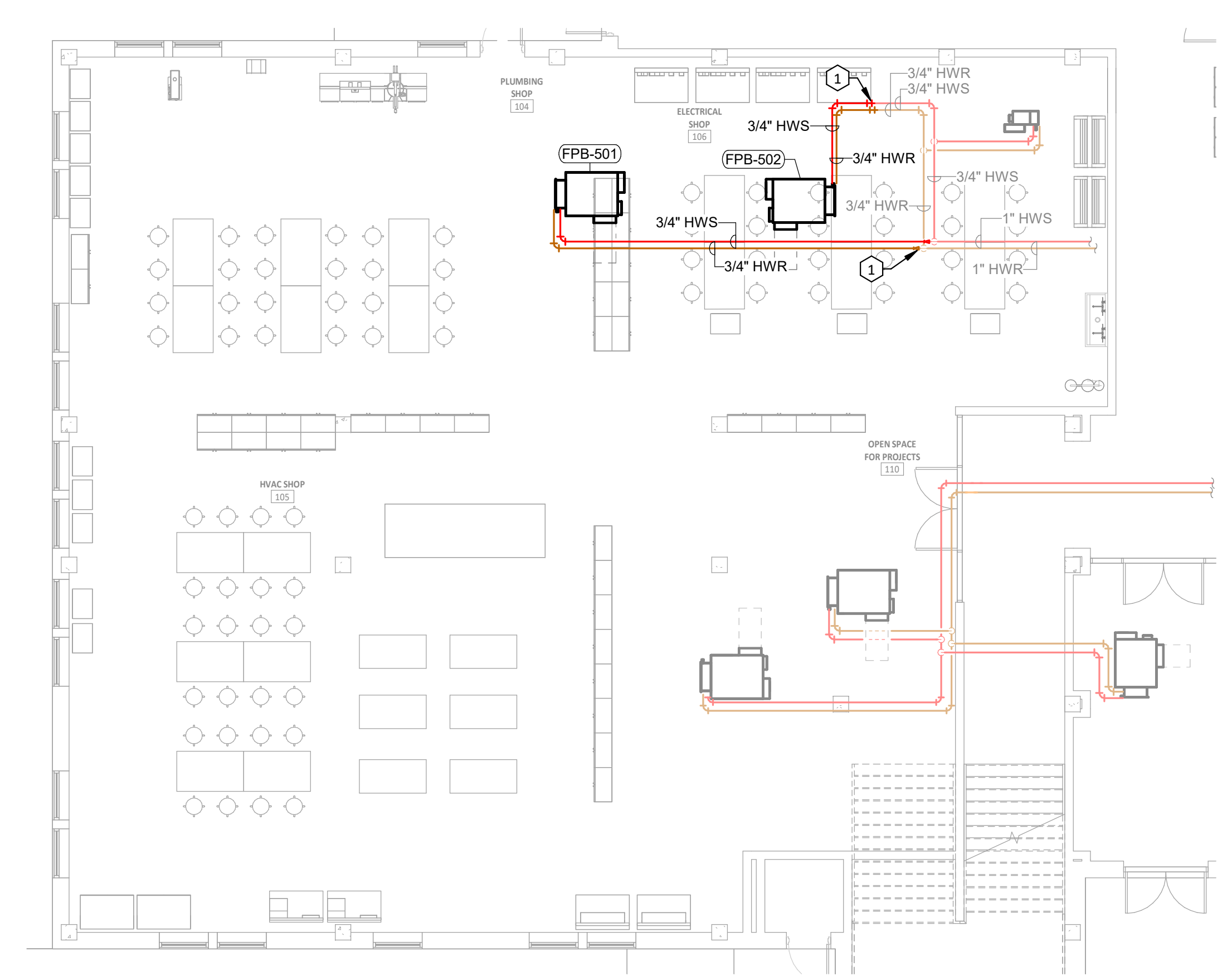
M-1.3



 **1** HYDRONIC DEMOLITION-MEP SHOP
Mechanical 1/8" = 1'-0"

MECHANICAL HYDRONIC DEMOLITION KEYED NOTES:

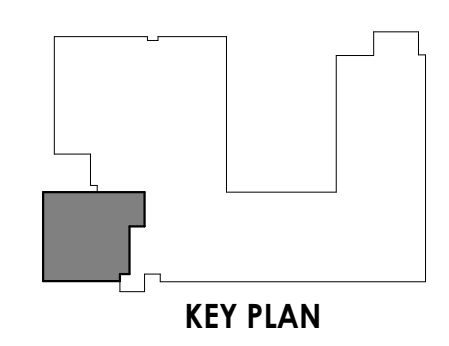
- 1 REMOVE INDICATED EXISTING HOT WATER PIPING AND ASSOCIATED HANGERS AND SUPPORTS AS SHOWN. COORDINATE WITH NEW WORK.
- 2 REMOVE INDICATED EXISTING HOT WATER PIPING AND ASSOCIATED HANGERS AND SUPPORTS AS SHOWN. CAP PIPING AT MAIN BRANCH, REPAIR INSULATION TO MATCH SURROUNDING CONDITIONS.
- 3 FACILITIES NOT SHOWN OR NOT SHOWN TO BE REMOVED SHALL REMAIN IN SERVICE



 **2** HYDRONIC NEW WORK - MEP SHOP
Mechanical 1/8" = 1'-0"

MECHANICAL HYDRONIC NEW WORK KEYED NOTES:

- 1 CONNECT NEW PIPING TO EXISTING, ROUTE NEW HOT WATER PIPING AS INDICATED. SUPPORT PIPING FROM THE STRUCTURE ABOVE.



KEY PLAN

| No. | DATE | DESCRIPTION |
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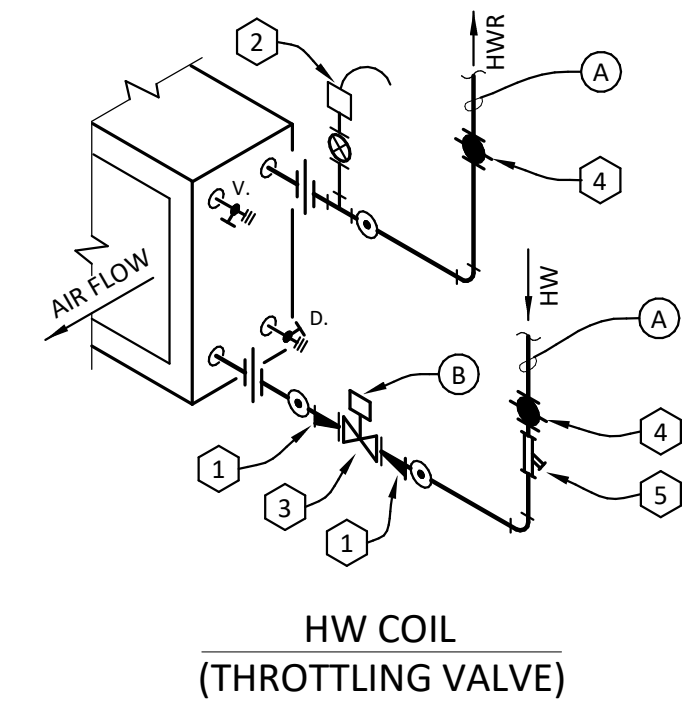
| SIZE SCHEDULE | | | |
|---------------|-------|-------|--|
| HW GPM | (A) | (B) | |
| 0-2 | 1/2 | 1/2 | |
| 2-4 | 3/4 | 1/2 | |
| 4-7 | 1 | 3/4 | |
| 7-15 | 1-1/4 | 1 | |
| 15-22 | 1-1/2 | 1-1/4 | |
| 22-40 | 2 | 1-1/2 | |
| 40-56 | 2-1/2 | 2 | |
| | | | |
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GENERAL NOTES:

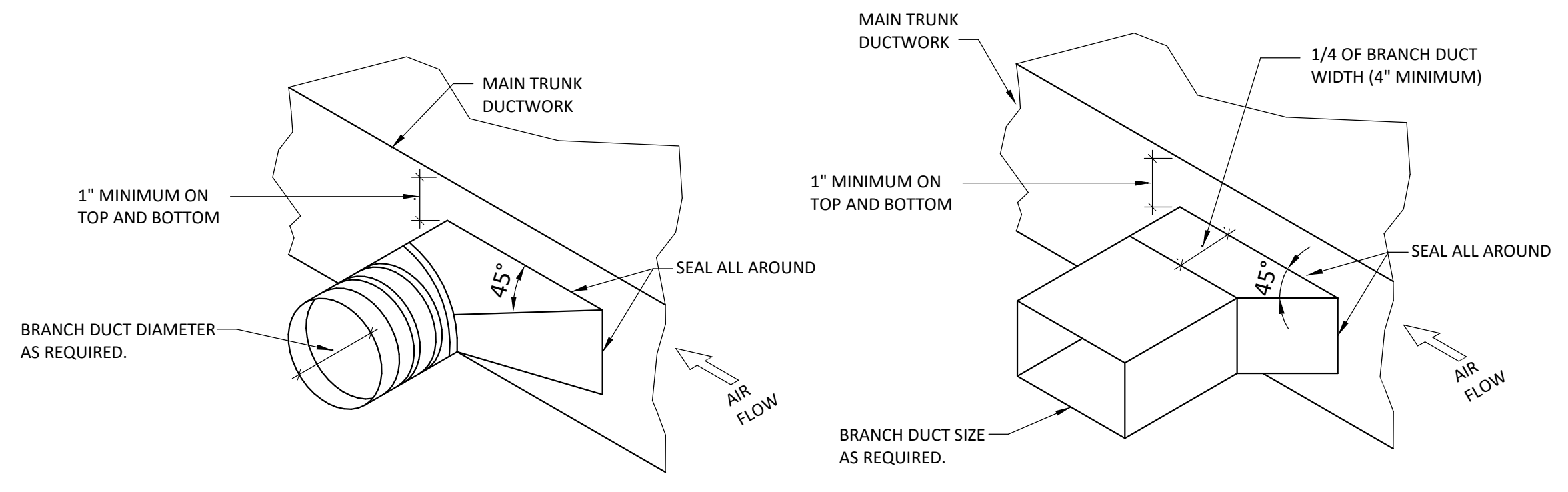
- COIL CONNECTIONS TO BE FULL SIZE.
- PIPE ALL COIL FOR COUNTER FLOW WATER TO AIR HEAT EXCHANGER.

SPECIAL NOTES:

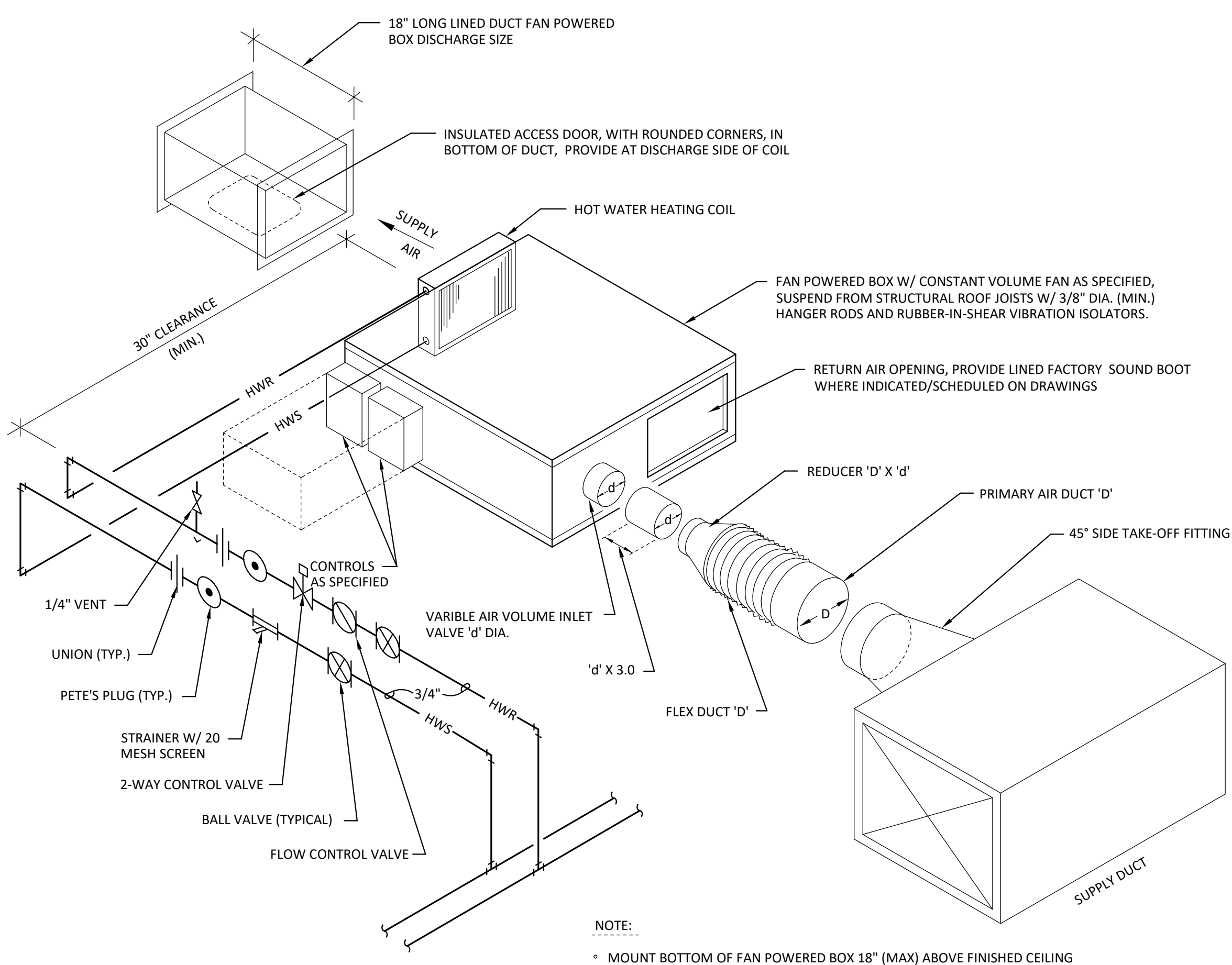
- REDUCER WHEN APPLICABLE.
- PROVIDE AUTO AIR VENT AT HIGH POINT WHEN MAIN PIPING IS BELOW COIL. PIPE DISCHARGE TO F.D. OR COND. DRAIN PAN.
- FLANGE OR UNION CONNECTIONS AT CONTROL VALVE.
- SHUT-OFF VALVE, BUTTERFLY OR BALL DEPENDING ON SIZE.
- STRAINER.



1 HOT WATER COIL PIPING DETAIL
MECHANICAL NOT TO SCALE



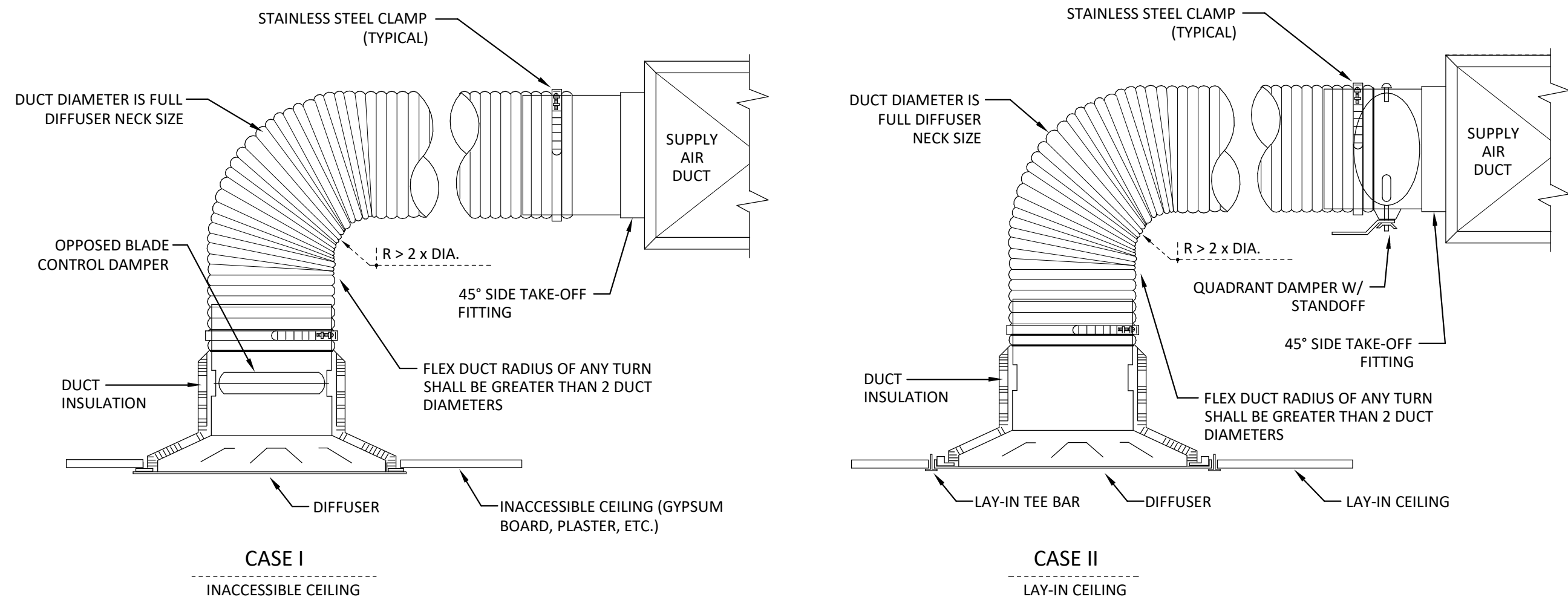
3 AIR DEVICE BRANCH TAKE-OFF DETAIL
MECHANICAL NOT TO SCALE



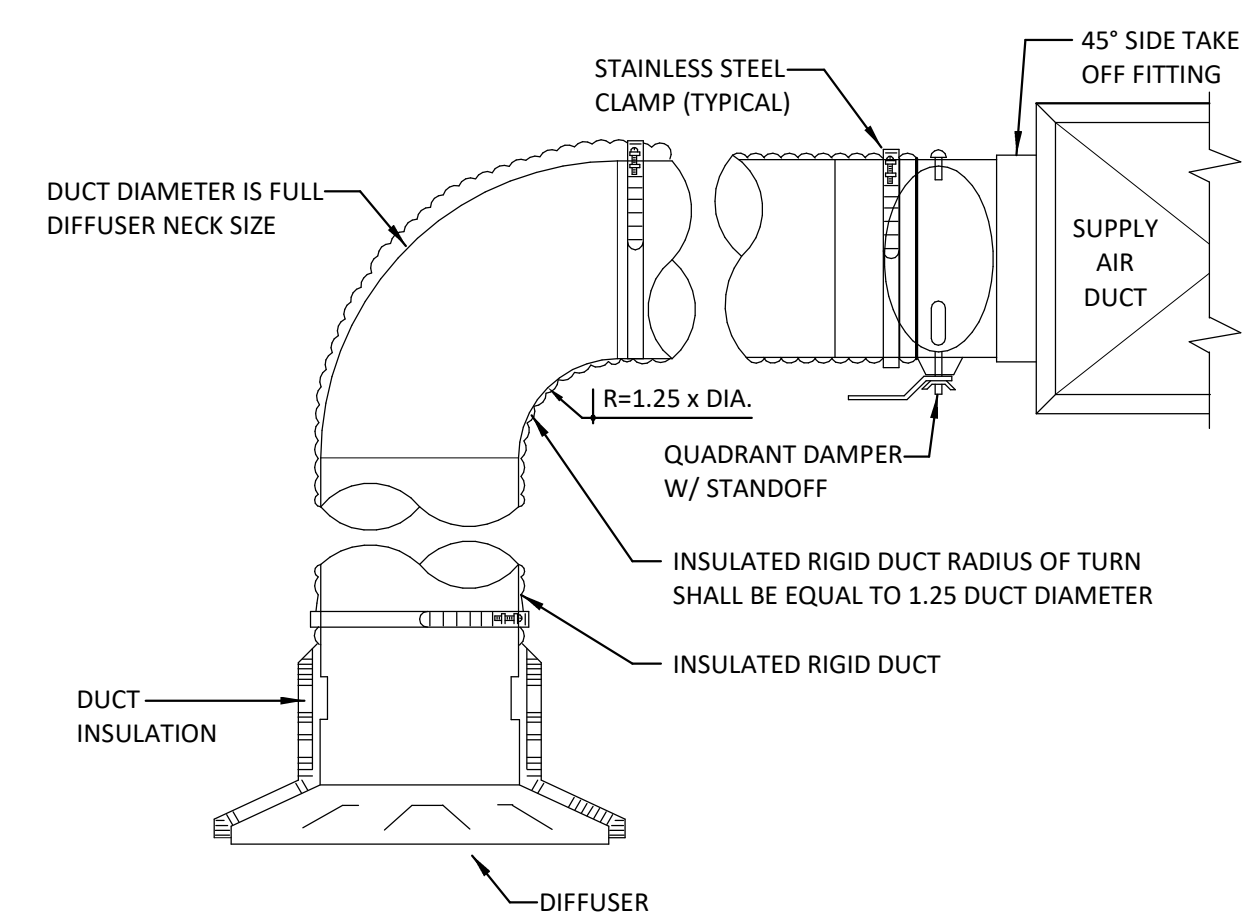
NOTE:

- MOUNT BOTTOM OF FAN POWERED BOX 18" (MAX) ABOVE FINISHED CEILING
- DO NOT ROUTE ANY PIPING OR CONDUITS BELOW FAN POWERED BOX.
- MOUNT FAN POWERED BOX WITH 24" (MIN.) CLEAR WORKING SPACE FOR CONTROLS.

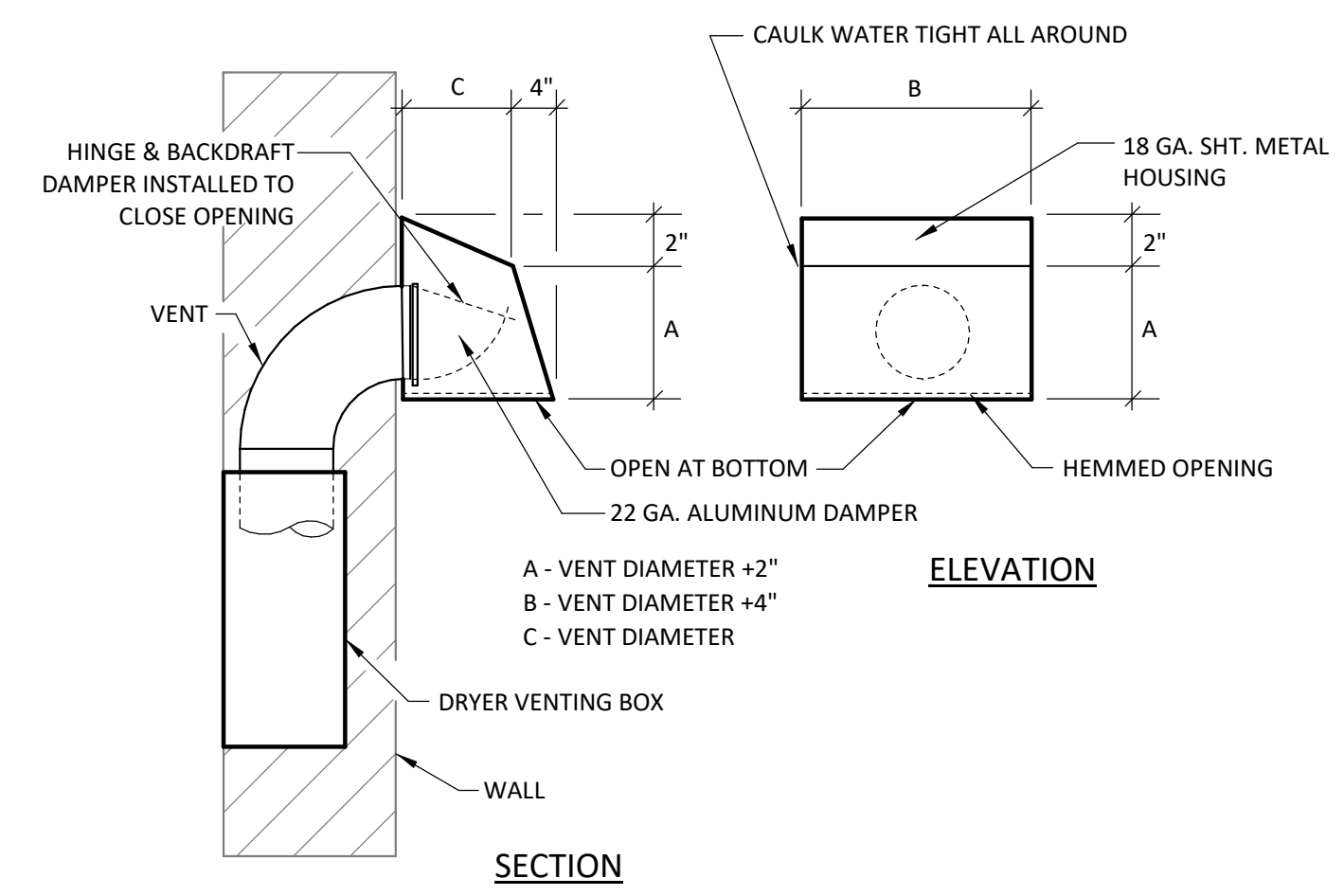
2 TYPICAL VAV/FAN POWERED BOX
MECHANICAL NOT TO SCALE



4 TYPICAL DIFFUSER INSTALLATION
MECHANICAL NOT TO SCALE

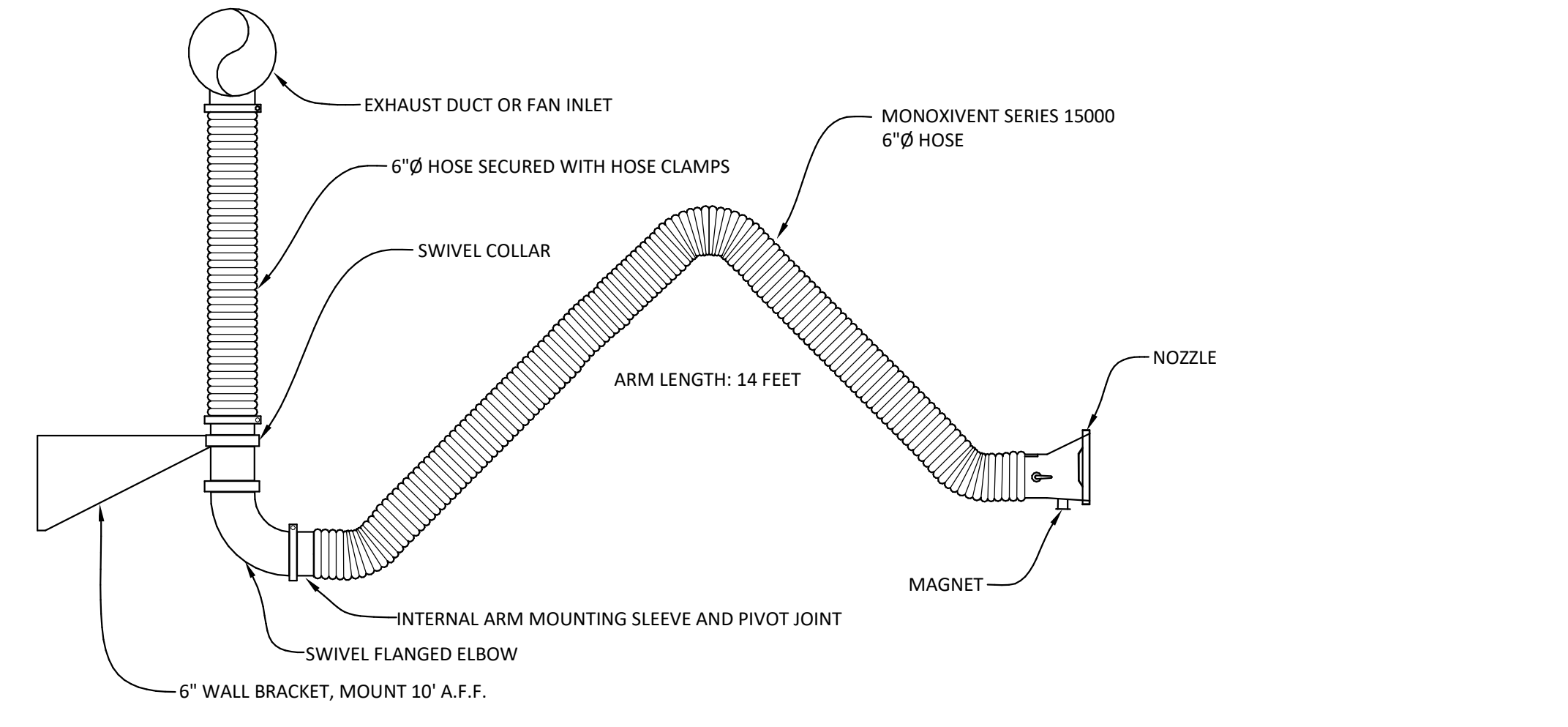


5 MEP SHOP - DIFFUSER INSTALLATION
MECHANICAL NOT TO SCALE

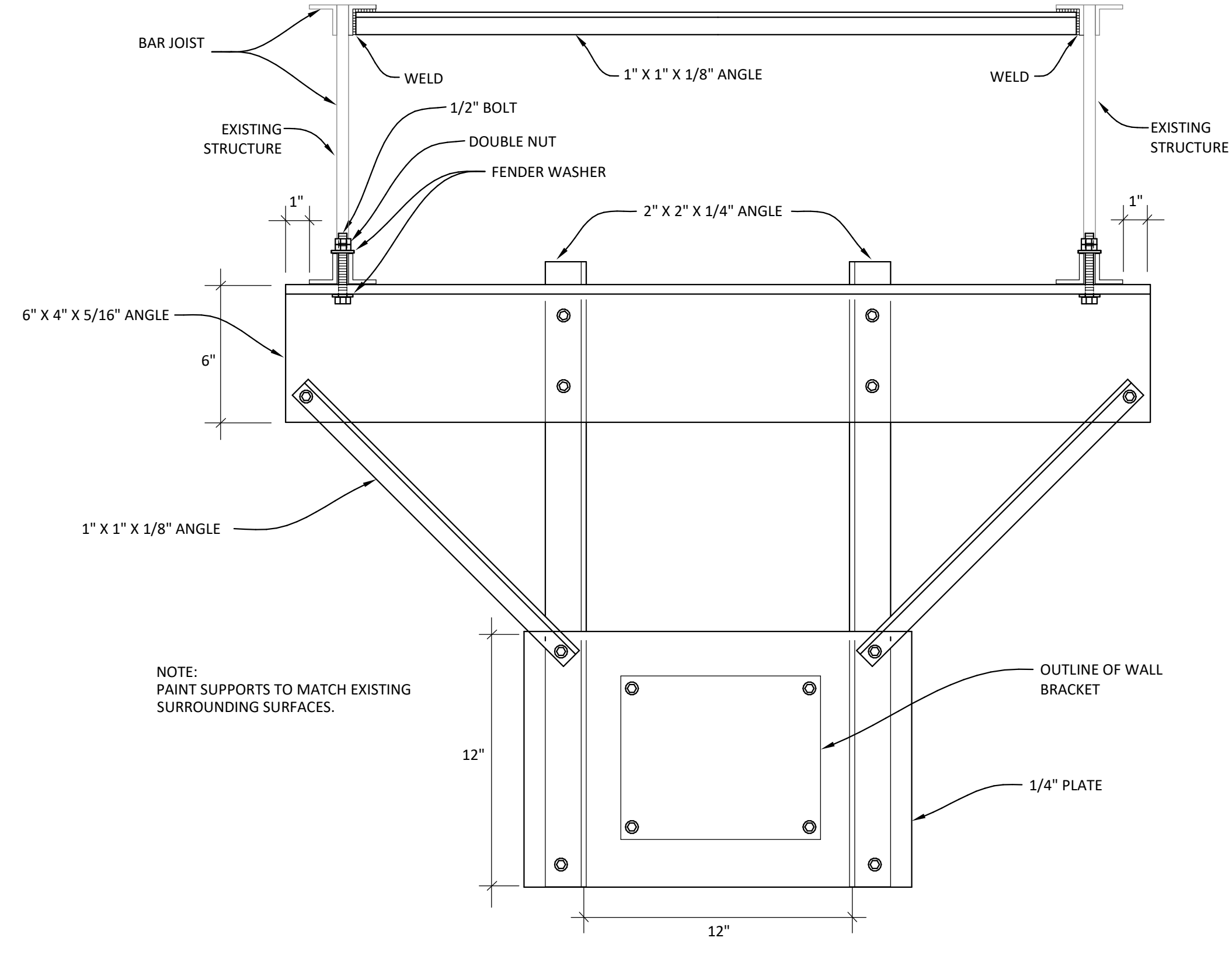


6 DRYER/HOOD EXHAUST CAP
MECHANICAL NO SCALE

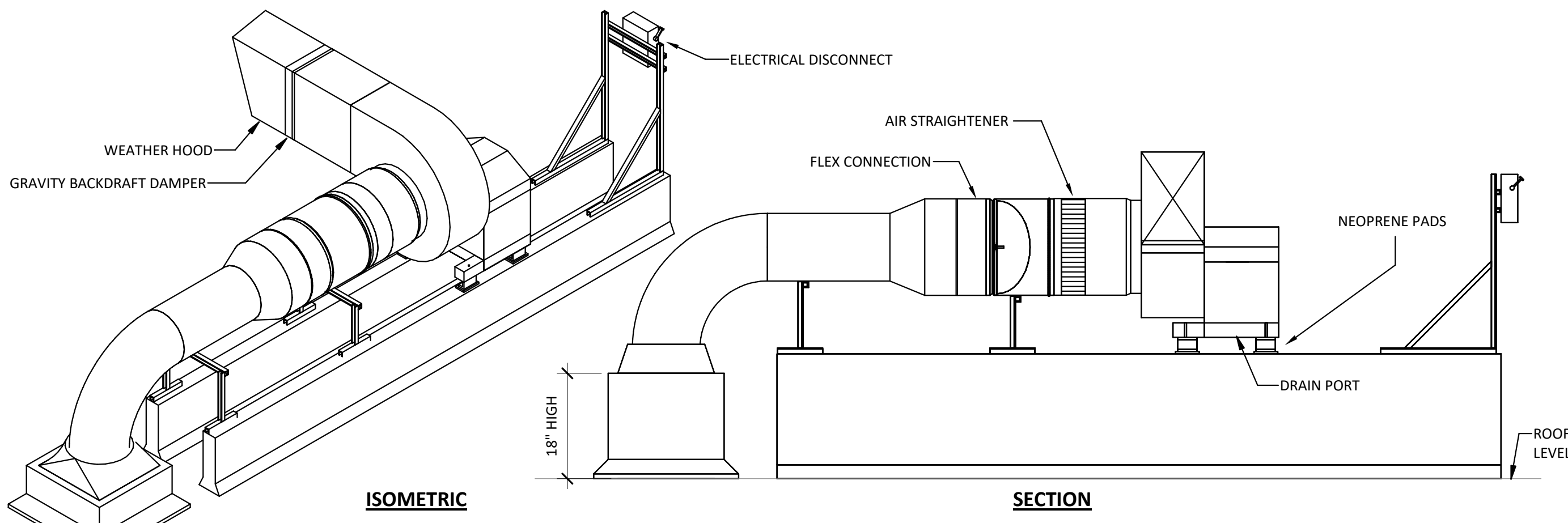
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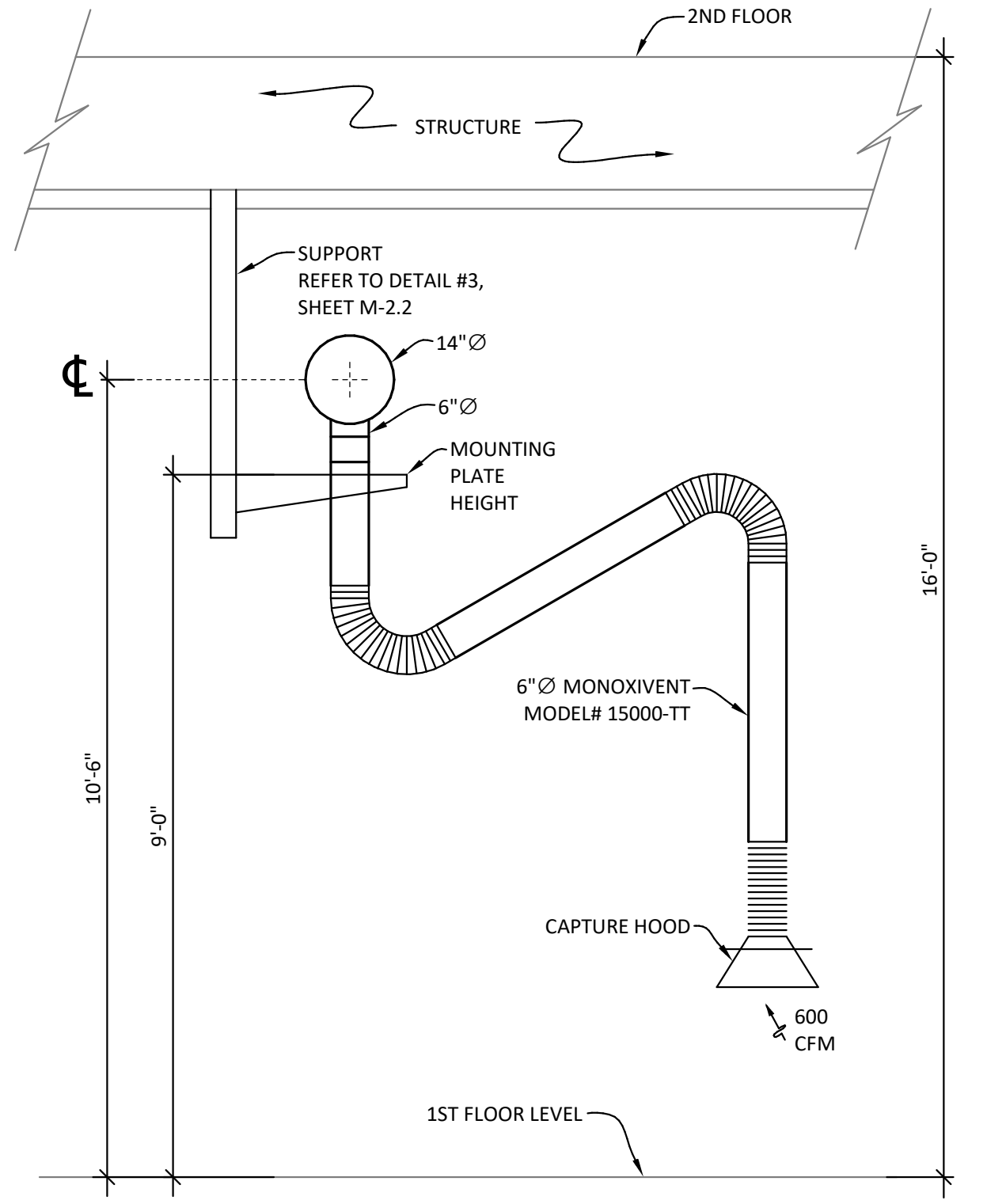
1 WELDING SYSTEM EXHAUST DETAIL
 MECHANICAL NOT TO SCALE



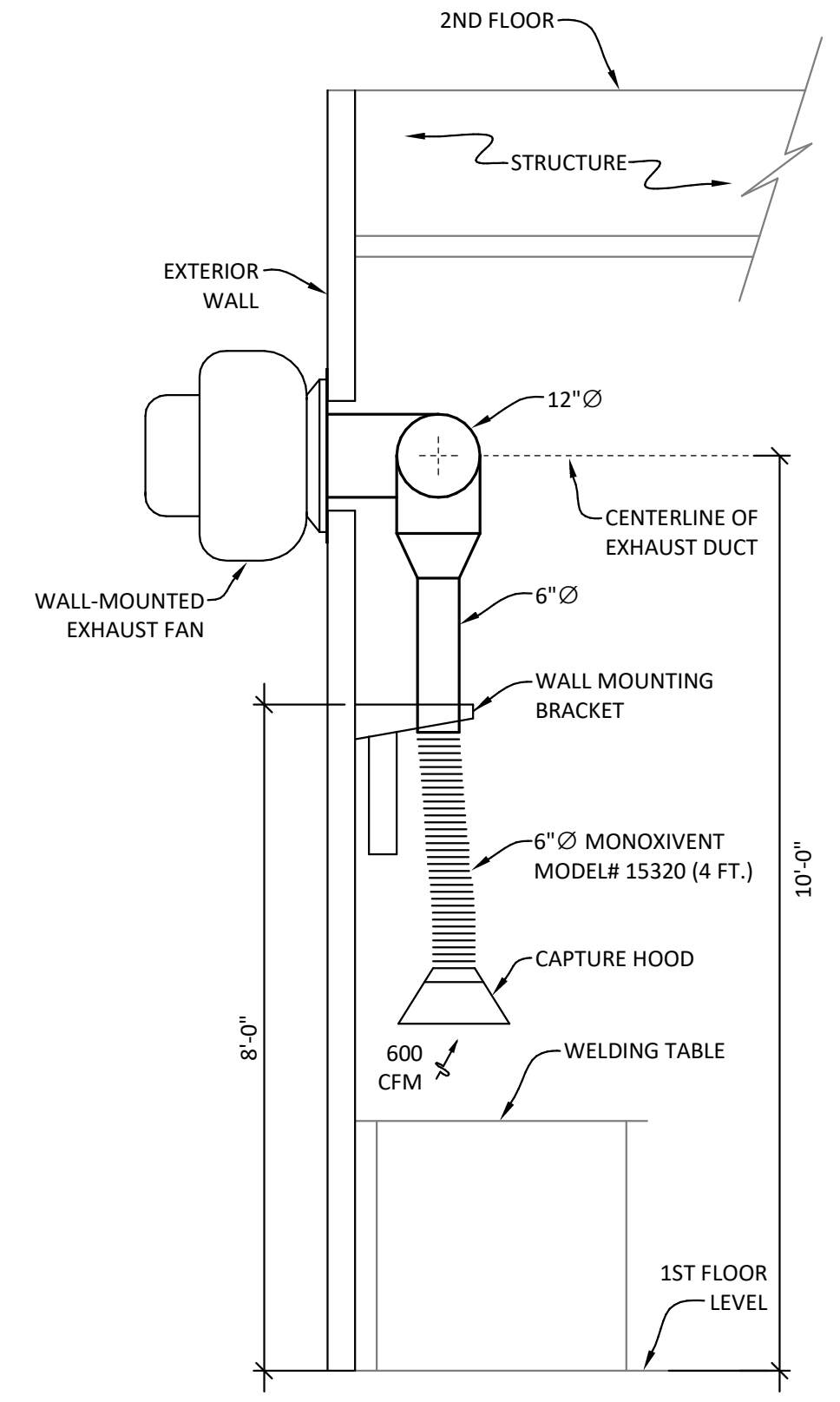
3 WELDING EXHAUST WALL BRACKET SUPPORT
 MECHANICAL NOT TO SCALE



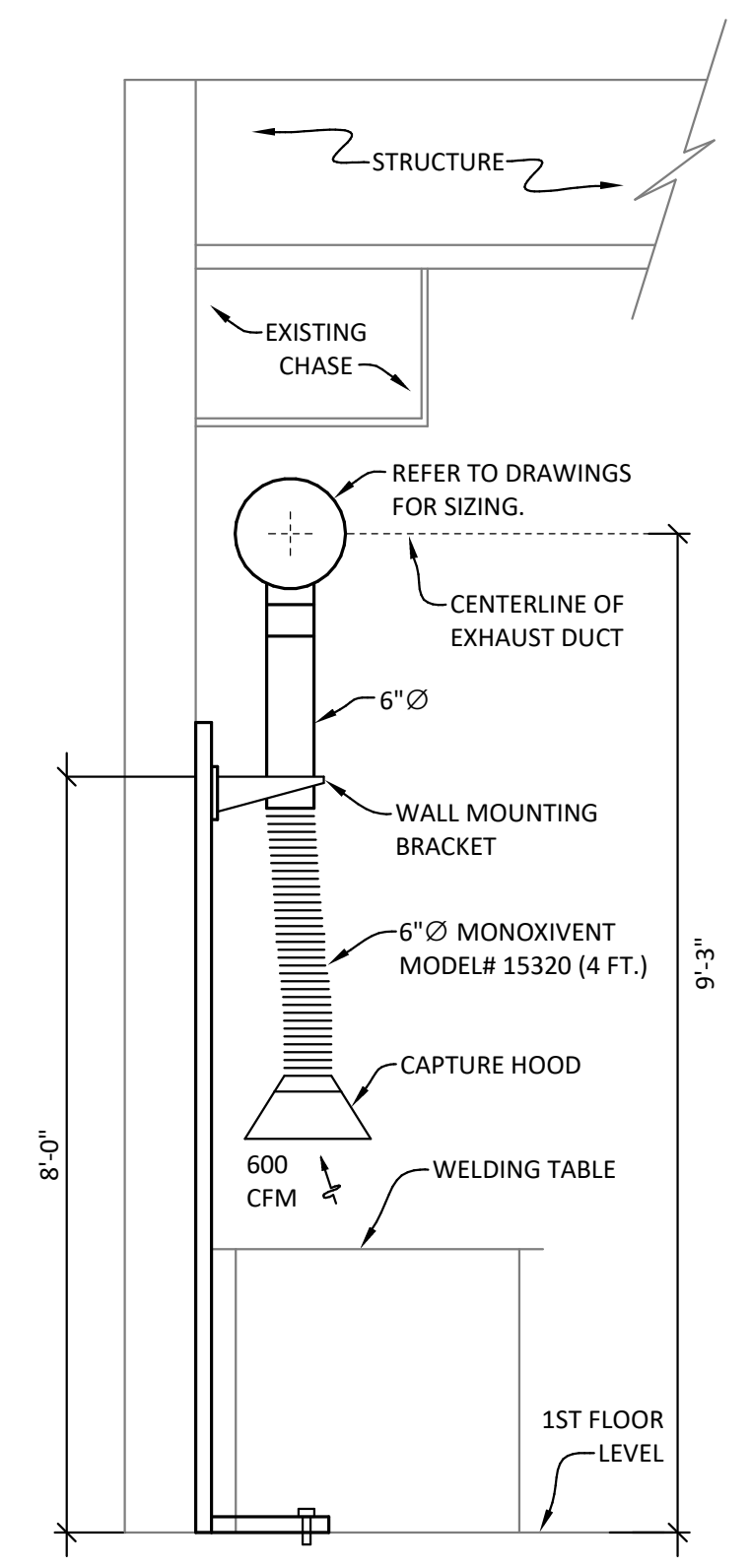
2 UTILITY VENT SET (EXHAUST) DETAIL
 MECHANICAL NOT TO SCALE



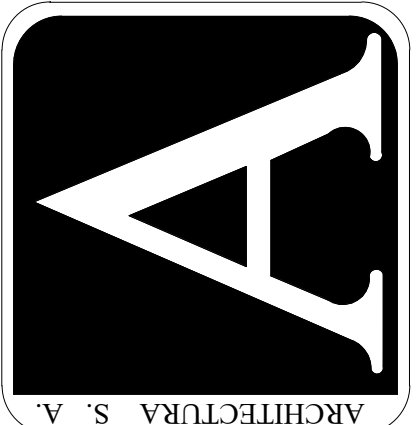
4 EXHAUST VENT NOZZLE MOUNTING HEIGHTS
 MECHANICAL NOT TO SCALE



5 WALL EXHAUST NOZZLE EXHAUST FAN
 MECHANICAL NOT TO SCALE

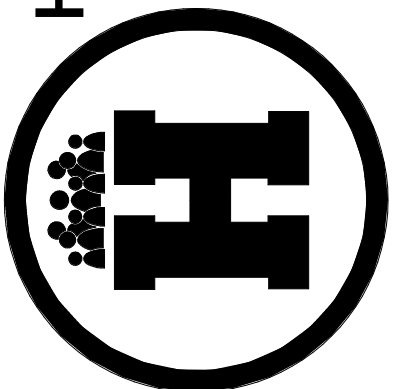


6 WALL EXHAUST NOZZLE CENTRAL EXHAUST DUCT
 MECHANICAL NOT TO SCALE



ARCHITECTURA S.A., INC.
ARCHITECTURE INTERIOR DESIGN PLANNING
17038 REDLAND RD., SUITE 101, SAN ANTONIO, TEXAS 78247
t. 210.384.8200 f. 210.319.3555
architecturasa@yahoo.com

**HISD CAREER TECHNOLOGY
EDUCATION (CTE)**
HARLANDALE INDEPENDENT SCHOOL DISTRICT
519 W HARDING BLVD.
SAN ANTONIO, TX 78221



Drawn By: JPD
Checked By: CPA
Job Number: 2023.113

**MECHANICAL
SCHEDULES**

| No. | DATE | DESCRIPTION |
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Date: 01/31/2024
Drawing No:

M-3.1

FAN SCHEDULE

| MARK | DESCRIPTION | CFM | S.P. | | FAN | | | MAX. SONES (dBA) | MOTOR | ARRANGEMENT | DRIVE | MFGR. | MODEL | WEIGHT (LBS) | CONTROLS | NOTES |
|------|--------------------------|-------|--------|------|-------|------|-----------------------|------------------|--------|-------------|---------------|-------|--------|--------------|----------|-------|
| | | | IN H2O | RPM | TYPE | | | | | | | | | | | |
| F-1 | WELDING EXHAUST | 2,400 | 4.0 | 2205 | CENT. | (74) | 3 HP / 460 V / 3 PH | UTILITY VENT SET | DIRECT | COOK | 165 CPS | 475 | NOTE 5 | 1, 4 | | |
| F-2 | WELDING EXHAUST | 2,400 | 4.0 | 2205 | CENT. | (74) | 3 HP / 460 V / 3 PH | UTILITY VENT SET | DIRECT | COOK | 165 CPS | 475 | NOTE 5 | 1, 4 | | |
| F-3 | WELDING EXHAUST | 3,000 | 4.0 | 2064 | CENT. | (78) | 5 HP / 460 V / 3 PH | UTILITY VENT SET | DIRECT | COOK | 180 CPS | 550 | NOTE 5 | 1, 4 | | |
| F-4 | WELDING EXHAUST | 3,000 | 4.0 | 2064 | CENT. | (78) | 5 HP / 460 V / 3 PH | UTILITY VENT SET | DIRECT | COOK | 180 CPS | 550 | NOTE 5 | 1, 4 | | |
| F-5 | WELDING EXHAUST | 600 | 2.25 | 2446 | CENT. | 24 | 1 HP / 208 V / 1 PH | WALL-MOUNTED | DIRECT | COOK | 120 ACWD (VF) | 75 | NOTE 5 | 1, 2, 3 | | |
| F-6 | MANICURE STATION EXHAUST | 450 | 0.75 | 1600 | CENT. | 10 | 1/2 HP / 115 V / 1 PH | WALL-MOUNTED | DIRECT | COOK | 101 ACWD (VF) | 70 | NOTE 5 | 1, 2, 3 | | |

- FAN SCHEDULE NOTES:**
- UNIT TO BE PROVIDED WITH FACTORY "PREWIRED" APPROVED MOTOR DISCONNECT DEVICE, MOTOR OVERLOAD PROTECTION, AND SHAFT GROUNDING RING. DISCONNECT SHALL NOT BE INSTALLED ON MOTOR.
 - PROVIDE UNIT COMPLETE WITH BIRD SCREEN, FACTORY WALL FLANGE, COLLAR, AND ANY COMPONENTS NECESSARY FOR A WALL-MOUNTED INSTALLATION. PROVIDE WITH REMOTE WALL-MOUNTED COMBINATION STARTER/DISCONNECT.
 - PROVIDE UNIT WITH GRAVITY BACK DRAFT DAMPER.
 - MOUNT UTILITY VENT FAN SET ON PAIR OF THYCRUB EQUIPMENT RAILS. REFER TO DETAIL #2, SHEET M-2.2.
 - PROVIDE UNIT WITH LOCAL CONTROLLER.

FAN POWERED BOX SCHEDULE

| MARK | FPB-5XX (5) | |
|----------------------------|-----------------------|------|
| TYPE | SERIES | |
| TOTAL AIR CFM | 1000 - 1400 | |
| APPROX. EXT. RESIST. H2O | 0.3 | |
| FAN MOTOR MIN. | 1/3HP / 277V / 1PH | |
| NC MAX RADIATED Δ Ps 1.0" | 29 (6) | |
| NC MAX DISCHARGE Δ Ps 1.0" | 22 (8) | |
| INLET SIZE | 12" DIA. | |
| HEATING COIL | TYPE | HW |
| | AIR TO COIL CFM | 1290 |
| | ENTERING AIR °F | 70 |
| | OUTPUT MBH (MIN.) | 22.1 |
| | HOT WATER GPM 140°F | 2 |
| | MAX. WATER P.D. (FT.) | 1.4 |
| ROWS | 1 | |
| REFERENCE | TITUS | |
| MODEL NO. | DTFS-F-D | |
| NOTES | 1 2 3 4 7 9 10 | |

- FAN POWERED BOX SCHEDULE NOTES:**
- REFER TO FAN POWERED BOX DETAIL FOR TYPICAL INSTALLATION.
 - NC- LEVEL SHOWN FOR MAX. SCHEDULED CFM VALUE.
 - NC LEVELS BASED UPON FACTORS IN AHRI STANDARD 880-2008.
 - REFER TO PLANS FOR PRIMARY AIR MIN/MAX SETTINGS.
 - XX-REPRESENTS THE INDIVIDUAL BOX I.D. NUMBER.
 - MAX. RADIATED SOUND WITH FANTOM IQ QUITE PACKAGE.
 - PROVIDE FAN POWERED BOXES WITH CONTROL PANEL MOUNTED ON THE LEFT-HAND SIDE UNLESS OTHERWISE NOTED ON THE PLANS.
 - MAX. DISCHARGE SOUND WITH FANTOM IQ QUITE PACKAGE.
 - PROVIDE UNIT WITH FILTER FRAME AND THREE SETS OF FILTERS.
 - PROVIDE UNIT WITH FACTORY MOUNTED HANGER BRACKETS.

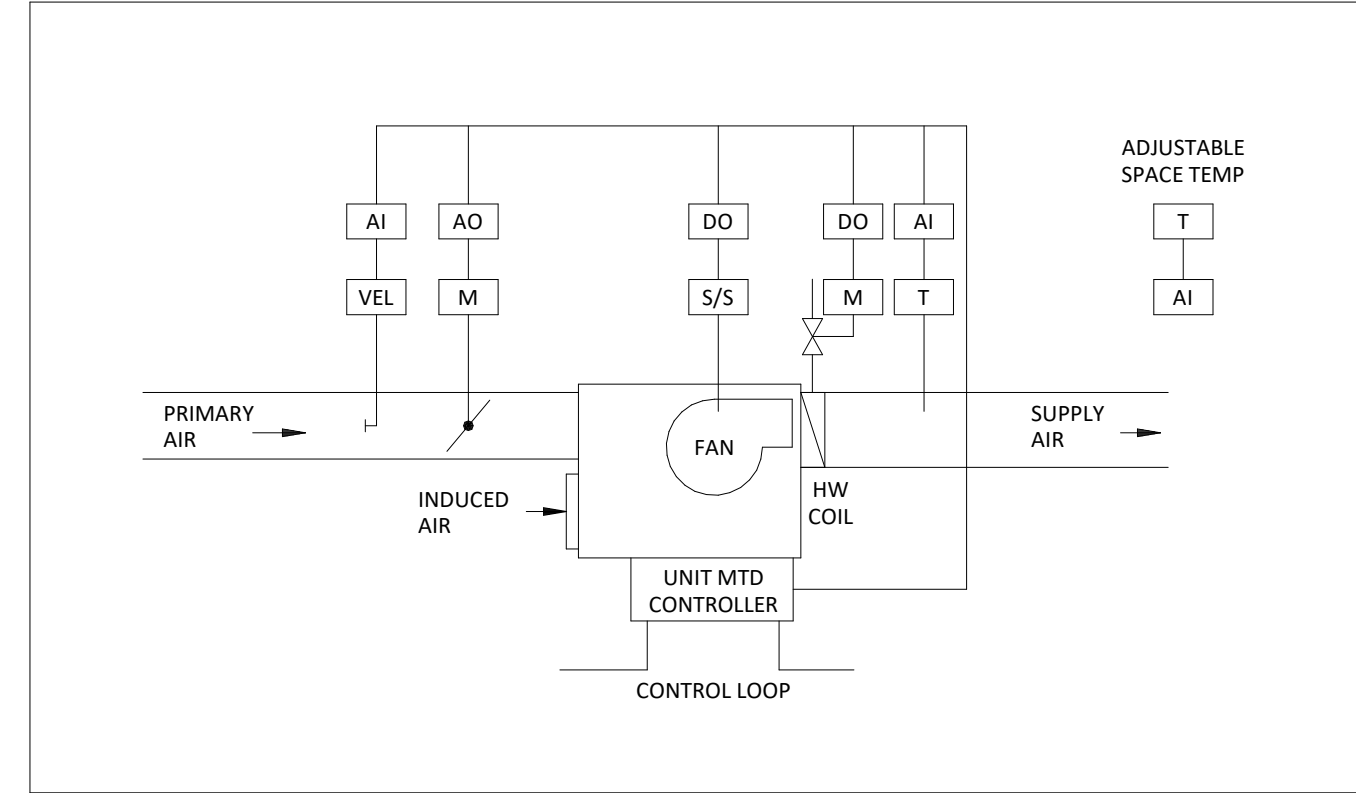
AIR DEVICE SCHEDULE (1,2,3,4)

| MARK | CFM (MIN-MAX) | SIZE | TYPE | REMARKS |
|------|---------------|------------------|---------|---------|
| A | 210 - 325 | 24" X 24" X 10"φ | OMNI-AA | 5 9 |
| B | 125 - 210 | 24" X 24" X 8"φ | OMNI-AA | 5 9 |
| C | 75 - 125 | 24" X 24" X 6"φ | OMNI-AA | 5 9 |
| RA | - | 24" X 24" | 50FB | 9 12 |
| RB | - | 12" X 12" | 50FB | 9 12 |
| EA | - | 12" X 6" | 50FB | 10 11 |

- AIR DEVICE SCHEDULE NOTES:**
- UNLESS OTHERWISE NOTED, ALL AIR DEVICES IN THIS SCHEDULE HAVE BEEN TAKEN FROM TITUS CATALOG FOR CONTRACTOR'S REFERENCE AS TO STYLE, TYPE, DEFLECTION, DESIGN, THROW, NOISE COEFFICIENT, AND QUALITY REQUIRED.
 - CONTRACTOR SHALL COORDINATE COLOR SELECTION OF AIR DEVICES WITH ARCHITECT.
 - CONTRACTOR SHALL PROVIDE APPROPRIATE TYPE OF AIR DEVICE FOR THE CEILING SYSTEM PROVIDED.
 - FLEXIBLE DUCTWORK INDICATED ON THE FLOOR PLANS SHALL BE FULL SIZE OF THE SCHEDULED AIR DEVICE NECK OR AS INDICATED.
 - FOUR WAY DEFLECTION.
 - THREE WAY DEFLECTION.
 - TWO WAY DEFLECTION.
 - ONE WAY DEFLECTION.
 - PROVIDE DEVICE WITH LAY-IN BORDER.
 - PROVIDE DEVICE WITH SURFACE MOUNT BORDER.
 - PROVIDE DEVICE WITH OPPOSED BLADE DAMPER.
 - PANEL FACE SIZE SHALL BE SUITABLE FOR INSTALLATION IN 24"x24" LAY-IN CEILING GRID.

**FPB CONTROL TYPE
FAN POWERED BOX**

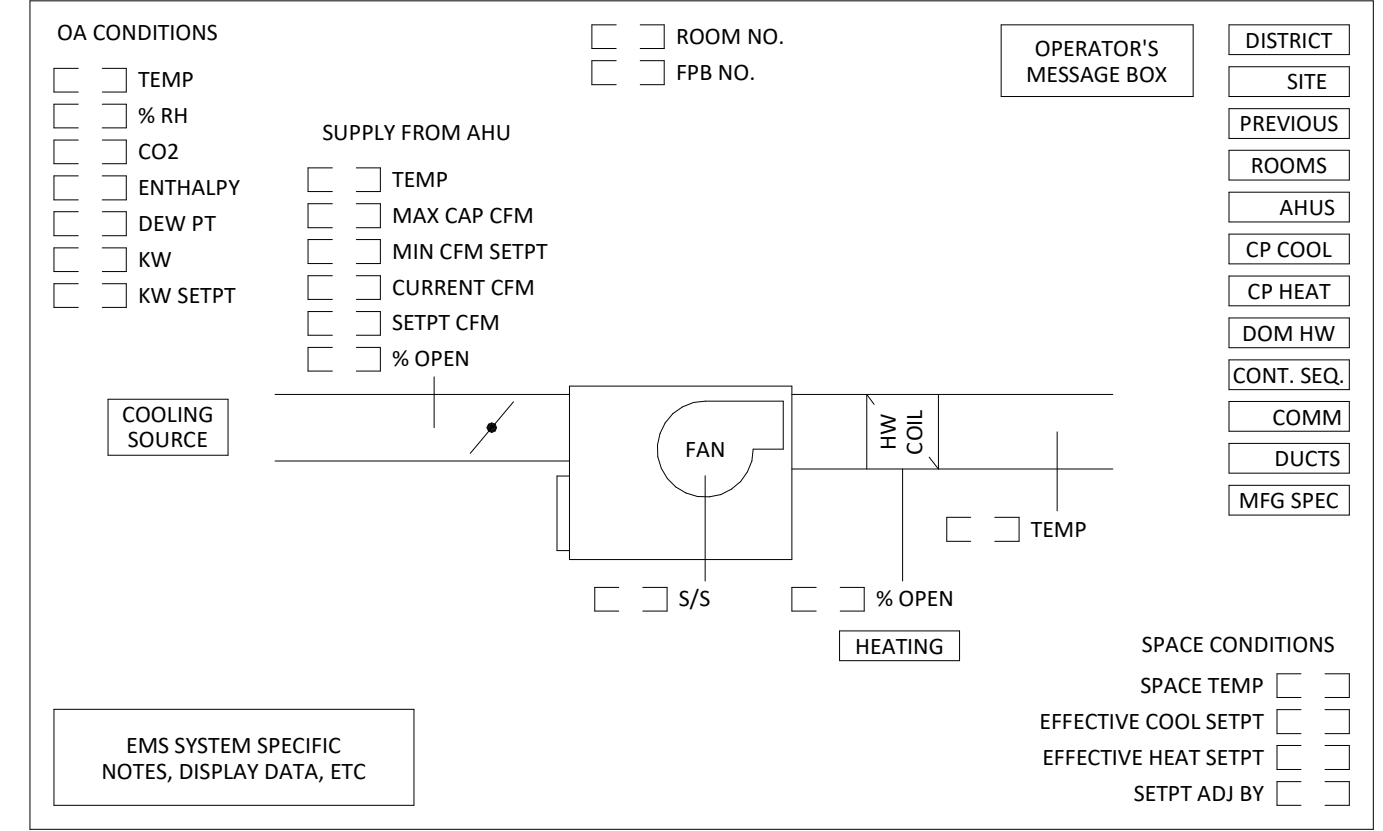
SCHEMATIC - FAN POWERED BOX



- SEQUENCE - FAN POWERED BOXES:**
- PROVIDE FOR EACH FAN POWERED BOX ON PROJECT. FAN POWERED BOX CONTROLLER SHALL BE PROVIDED FOR FACTORY INSTALLATION BY BOX MANUFACTURER. PROVIDE 3-WAY CONTROL VALVE AT END-OF-LOOP UNITS, AND AS INDICATED ON THE DRAWINGS.
 - OPERATIONAL SEQUENCE:
 - OPERATIONAL CONDITIONS: THE UNIT SHALL OPERATE ON A USER DEFINED SCHEDULE:
 - OCCUPIED MODE: *75F DEGREES COOLING SETPOINT *70F DEGREES HEATING SETPOINT
 - UNOCCUPIED MODE: *95F DEGREES COOLING SETPOINT *55F DEGREES HEATING SETPOINT
 - A MINIMUM OF 75% OF ZONE SPACES ABOVE COOLING SETPOINT OR BELOW HEATING SETPOINT SHALL BE REQUIRED TO ENABLE ALL BOXES SERVED BY ASSOCIATED AIR HANDLING UNIT.
 - UNIT OPERATION:
 - FAN SHALL ENERGIZE ALONG WITH ALL BOXES SERVED BY ASSOCIATED AIR HANDLING UNIT:
 - IF SPACE CALLS FOR NO HEATING OR COOLING:
 - HOT WATER VALVE SHALL FULL CLOSE.
 - DAMPER SHALL MAINTAIN MINIMUM POSITION TO THE AIR HANDLING UNIT.
 - IF SPACE CALLS FOR HEATING:
 - SIGNAL CENTRAL PLANT FOR HEATING THRU ASSOCIATED AIR HANDLING UNIT.
 - TWO-POSITION HOT WATER VALVE SHALL CYCLE AS REQUIRED TO SATISFY SPACE.
 - DAMPER SHALL MAINTAIN MINIMUM POSITION TO THE AIR HANDLING UNIT.
 - IF SPACE CALLS FOR COOLING:
 - HOT WATER VALVE SHALL FULL CLOSE.
 - SUPPLY DAMPER SHALL MODULATE AS REQUIRED TO SATISFY THE SPACE.
 - AT SHUTDOWN:
 - FAN SHALL DE-ENERGIZE.
 - HOT WATER VALVE SHALL FULL CLOSE.
 - DAMPER SHALL MAINTAIN MINIMUM POSITION TO THE AIR HANDLING UNIT.
 - FREEZE PROTECTION:
 - ANYTIME:
 - SPACE OR SUPPLY AIR TEMPERATURE FALL BELOW *45F DEGREES:
 - FAN SHALL ENERGIZE.
 - HOT WATER VALVE SHALL FULL OPEN.
 - SPACE OR SUPPLY AIR TEMPERATURE BELOW *36F DEGREES:
 - FAN SHALL DE-ENERGIZE
 - HOT WATER VALVE SHALL FULL OPEN.
 - TEMPERATURE SHALL ALARM.
 - DDC POINT SCHEDULE:

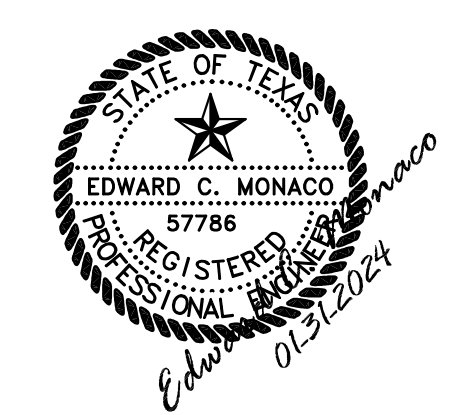
| | | | |
|-------------------|---------------|--------------------|-----------|
| SPACE TEMPERATURE | 1 EACH AI | VELOCITY SENSOR | 1 EACH AI |
| HOT WATER VALVE | 1 EACH DO | FAN START/STOP | 1 EACH DO |
| DAMPER | 1 EACH AO (1) | DISCHARGE AIR TEMP | 1 EACH AI |
- * ITEMS ARE TO BE FIELD ADJUSTABLE

GRAPHIC - FAN POWERED BOX



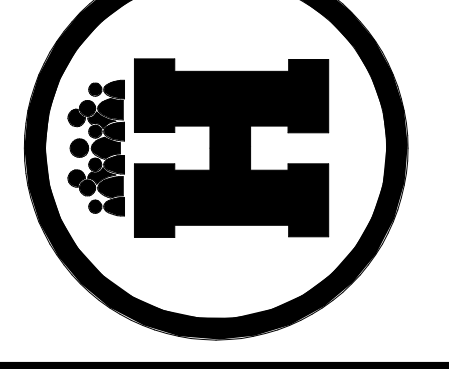


8610 Broadway, Suite 415 San Antonio, Texas 78217 State of Texas Firm Registration No. F-19468



ARCHITECTURA S.A., INC. ARCHITECTURE INTERIOR DESIGN PLANNING 17038 REDLAND RD., SUITE 101, SAN ANTONIO, TEXAS 78247 t. 210.384.8200 f. 210.319.3555 architecturass@yahoo.com

HISD CAREER TECHNOLOGY EDUCATION (CTE) HARLANDALE INDEPENDENT SCHOOL DISTRICT 519 W HARDING BLVD. SAN ANTONIO, TX 78221



Drawn By: JM Checked By: ECM Job Number: 2023.113

ELECTRICAL LEGEND

Table with 3 columns: No., DATE, DESCRIPTION

Date: 04/24/23

Drawing No:

E-0.1

GENERAL DEMOLITION NOTES: (APPLICABLE TO ALL DEMOLITION SHEETS)

- 1. PRIOR TO BIDDING, THE CONTRACTOR SHALL VISIT THE SITE TO EXAMINE AND FAMILIARIZE HIMSELF WITH EXISTING CONDITIONS... 2. THE CONTRACTOR SHALL PROVIDE TEMPORARY OR NEW SERVICES TO EXISTING FACILITIES... 3. WHERE EXISTING CONSTRUCTION IS REMOVED TO PROVIDE WORKING AND EXTENSION ACCESS... 4. WHERE PARTITIONS, WALLS, FLOORS, OR CEILINGS OF EXISTING CONSTRUCTION ARE INDICATED TO BE REMOVED... 5. THE CONTRACTOR SHALL MODIFY, REMOVE, AND RELOCATE ALL MATERIALS AND ITEMS SO INDICATED... 6. ALL ITEMS WHICH ARE TO BE RELOCATED SHALL BE CAREFULLY REMOVED IN REVERSE TO ORIGINAL ASSEMBLY... 7. FEEDERS AND WIRING TO ITEMS TO BE REMOVED, SALVAGED, OR RELOCATED SHALL BE REMOVED TO POINTS INDICATED ON THE DRAWINGS... 8. SOME ITEMS AND MATERIALS BEING REMOVED MAY REMAIN THE PROPERTY OF THE OWNER... 9. WHERE EXTENSION OF AN EXISTING CIRCUIT IS REQUIRED, CONDUIT SHALL BE ROUTED CONCEALED... 10. ITEMS OF EQUIPMENT, RECEPTACLES, LIGHT FIXTURES, MOTORS, ETC., INDICATED OR REQUIRED TO BE REMOVED SHALL HAVE ASSOCIATED CIRCUITRY REMOVED BACK TO THE PROTECTIVE DEVICE... A. ASSOCIATED CIRCUITRY SHALL BE DEFINED TO INCLUDE ALL CONDUIT, CONDUCTORS, BOXES, WIRING DEVICES... B. THE PROTECTIVE DEVICE SHALL REMAIN AS AN INTEGRAL PART OF THE EXISTING PANEL... C. WHERE CONDUIT, ASSOCIATED WITH AN ITEM INDICATED TO BE REMOVED, IS IN AN INACCESSIBLE AREA... D. WHERE INACCESSIBLE CONDUIT ENDS OR MUST BE TERMINATED IN A FINISHED SPACE... E. WHERE ONLY A PORTION OF A CIRCUIT'S LOAD IS INDICATED TO BE REMOVED... 11. UNLESS OTHERWISE INDICATED ON THE DRAWINGS, FACILITIES NOT INDICATED OR NOT INDICATED TO BE REMOVED SHALL REMAIN IN SERVICE EXCEPT: A. FACILITIES IN WALLS AND PARTITIONS BEING REMOVED SHALL BE REMOVED. B. FACILITIES WHICH INTERFERE WITH THE INSTALLATION OF NEW PARTITIONS SHALL BE RELOCATED... C. OUTLETS AND CIRCUITRY SERVING FACILITIES OR EQUIPMENT TO BE REMOVED SHALL BE REMOVED OR ABANDONED. D. WHERE WIRING SERVING FACILITIES TO REMAIN PASSES THRU REMOVED OUTLETS... E. REMOVE ASSOCIATED ELECTRICAL FACILITIES INCLUDING CONDUIT AND CONDUCTORS SERVING EQUIPMENT BEING REMOVED. 12. UNLESS OTHERWISE INDICATED ON THE DRAWINGS, FACILITIES NOT INDICATED OR NOT INDICATED TO BE REMOVED SHALL REMAIN IN SERVICE EXCEPT: A. FACILITIES IN WALLS AND PARTITIONS BEING REMOVED SHALL BE REMOVED. B. FACILITIES WHICH INTERFERE WITH THE INSTALLATION OF NEW PARTITIONS SHALL BE RELOCATED... C. OUTLETS AND CIRCUITRY SERVING FACILITIES OR EQUIPMENT TO BE REMOVED SHALL BE REMOVED OR ABANDONED. D. WHERE WIRING SERVING FACILITIES TO REMAIN PASSES THRU REMOVED OUTLETS... E. REMOVE ASSOCIATED ELECTRICAL FACILITIES INCLUDING CONDUIT AND CONDUCTORS SERVING EQUIPMENT BEING REMOVED. 13. WHERE PARTITION REMOVAL EXPOSES FACILITIES TO REMAIN OR SERVICE TO FACILITIES WHICH REMAIN, RELOCATE OR RE-ROUTE FACILITIES OR SERVICES AS ACCEPTABLE TO THE OWNER'S REPRESENTATIVE. 14. PROVIDE NEW PANELBOARD DIRECTORIES FOR ALL EXISTING PANELBOARDS WITHIN THIS SCOPE OF WORK... 15. WHERE CONDUIT AND CONDUCTORS ARE INDICATED TO BE REMOVED, CONDUIT SHALL BE REMOVED TO POINT OF CONCEALMENT AND WIRING REMOVED ENTIRELY... 16. UNLESS OTHERWISE INDICATED, VERIFY ALL EXISTING PIPE SIZES BEFORE REMOVAL... 17. ALL PIPING FACILITIES ARE NOT SHOWN FOR CLARITY... 18. EXISTING PIPING AND EQUIPMENT LOCATIONS ARE TAKEN FROM BEST AVAILABLE INFORMATION... 19. ALL CIRCUIT BREAKERS SHALL BE PROVIDED AT AN AIC RATING THAT MEETS OR EXCEEDS THE EXISTING AND/OR NEW EQUIPMENT TO BE INSTALLED.

ELECTRICAL SYMBOLS LEGEND

Table with 2 columns: MARK, ITEM. Lists various electrical symbols and their corresponding descriptions.

ELECTRICAL SYMBOL NOTES:

- 1 SHADED PORTION & ARROW INDICATES SIDE ON WHICH LETTERING APPEARS & DIRECTION WHERE APPLICABLE. EXACT HEIGHT AND LOCATION OF ALL EXIT SIGNS SHALL BE DETERMINED BY ARCHITECT & BLDG. OFFICIAL ON THE SITE.

ABBREVIATIONS

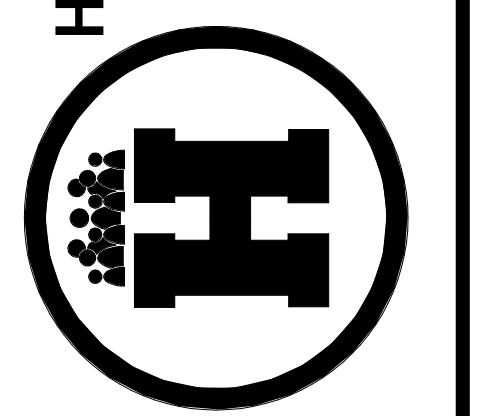
- A - AMPERE(S) AIC - AMPERAGE INTERRUPTING CAPACITY A/V - AUDIO VISUAL AFF - ABOVE FINISH FLOOR AFG - ABOVE FINISH GRADE AHU - AIR HANDLING UNIT ATS - AUTOMATIC TRANSFER SWITCH BLDG - BUILDING C - CONDUIT CB - ENCLOSED CIRCUIT BREAKER CKT - CIRCUIT EDF - ELECTRIC DRINKING FOUNTAIN EPO - EMERGENCY POWER OFF FLA - FULL LOAD AMPS FSD - FIRE SMOKE DAMPER GFCI - GROUND-FAULT CIRCUIT INTERRUPTER GND - GROUND HOA - HAND-OFF-AUTOMATIC HP - HORSEPOWER IG - ISOLATED GROUND J-BOX - JUNCTION BOX KVA - KILOVOLT AMPERE KW - KILOWATT MCB - MAIN CIRCUIT BREAKER MCC - MOTOR CONTROL CENTER MLO - MAIN LUGS ONLY MTD - MOUNTED N/A - NOT APPLICABLE NC - NORMALLY CLOSED NO - NORMALLY OPEN NF - NON FUSED N.I.C. - NOT IN CONTRACT NL - NIGHT LIGHT (UNSWITCHED) NTS - NOT TO SCALE OFCI - OWNER FURNISHED CONTRACTOR INSTALLED OH - OVERHEAD PB - PUSHBUTTON PH, Ø - PHASE RCPT - RECEPTACLE SPD - SURGE PROTECTION DEVICE SWBD - SWITCHBOARD TC - TIMECLOCK TV - TELEVISION TYP. - TYPICAL UG - UNDERGROUND V - VOLTAGE W.G. - WIREGUARD W.P. - WEATHERPROOF XFMR - TRANSFORMER 1P - ONE POLE 2P - TWO POLE 3P - THREE POLE

ENGINEERING &
SKYE MEP
COMMISSIONING
8610 Broadway, Suite 415
San Antonio, Texas 78217
State of Texas Firm Registration No. F-19468



ARCHITECTURA S.A., INC.
ARCHITECTURE INTERIOR DESIGN PLANNING
17038 REDLAND RD., SUITE 101, SAN ANTONIO, TEXAS 78247
t. 210.384.8200 f. 210.319.3555
architecturass@yahoo.com

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SAN ANTONIO, TX 78221



Drawn By: JM
Checked By: ECM
Job Number: 2023.113

LIGHTING DEMOLITION PLANS

| No. | DATE | DESCRIPTION |
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Date: 04/24/23

Drawing No:

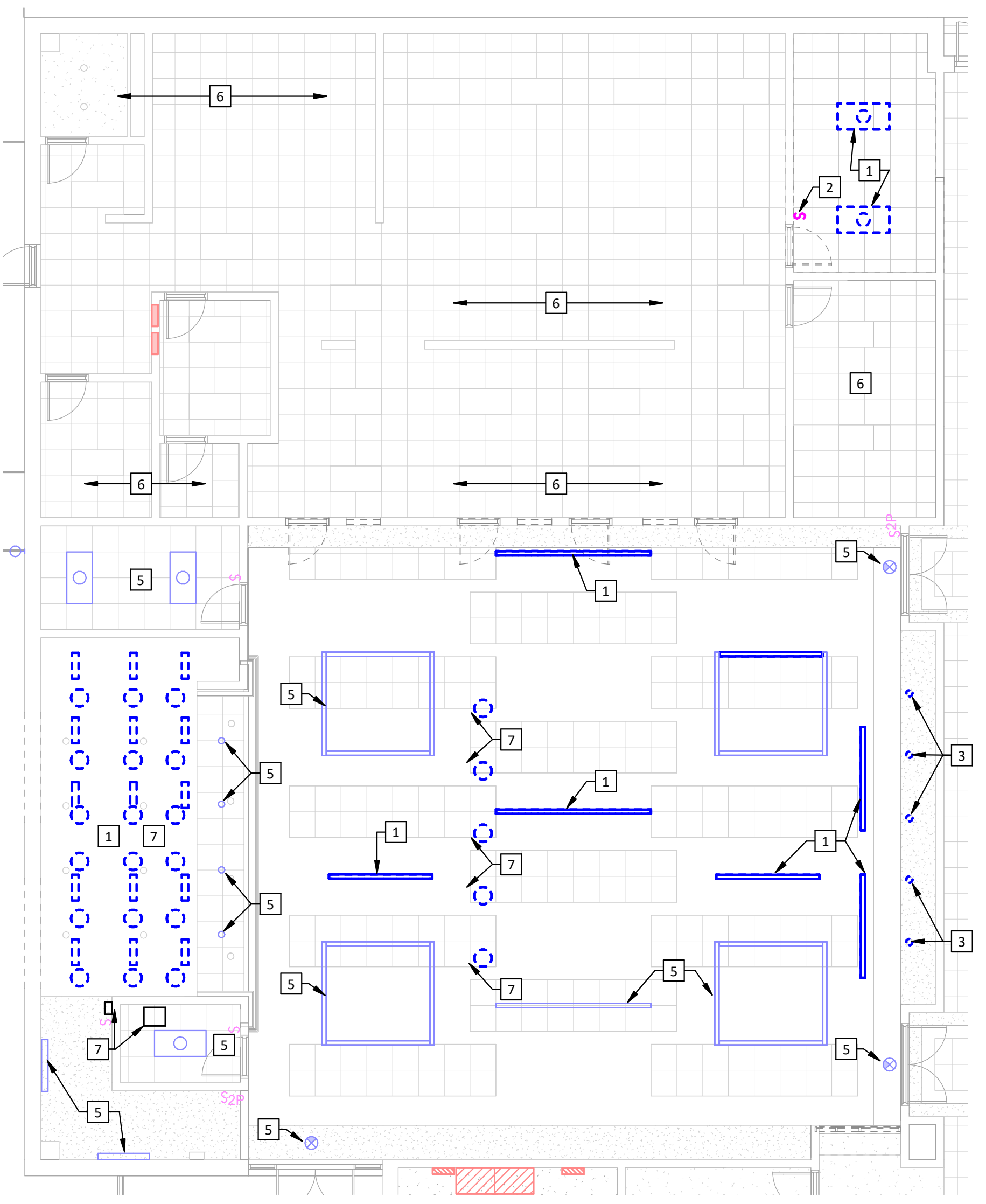
ED-1.1

ELECTRICAL GENERAL NOTES:

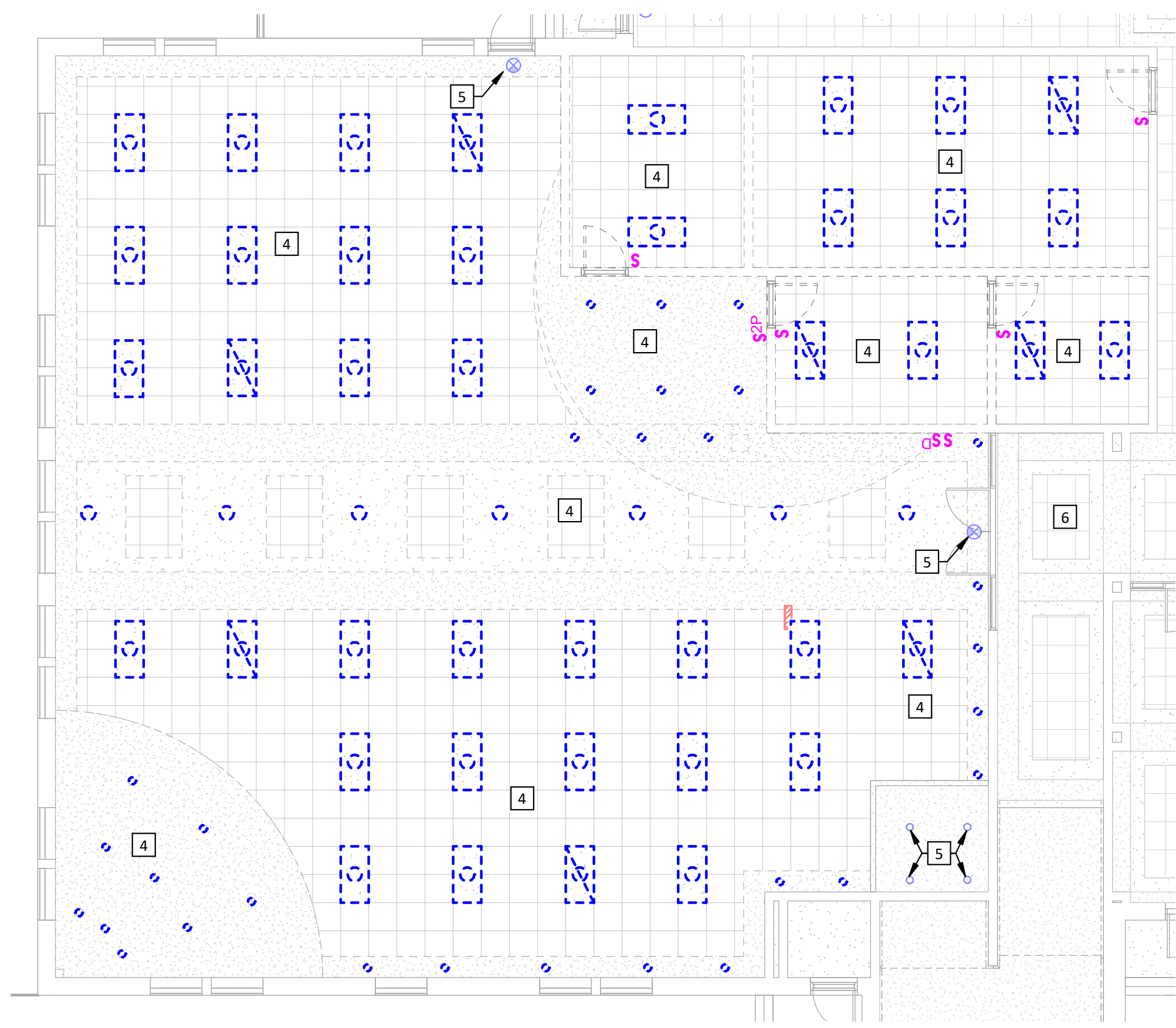
1. ALL EXISTING LIGHT FIXTURES, LIGHTING SWITCHES AND ASSOCIATED DEVICES, INDICATED DASHED, SHALL BE REMOVED. EXISTING BRANCH CIRCUIT TO REMAIN TO SERVE NEW.
2. REFER TO SHEET E-0.1 FOR GENERAL NOTES.

ELECTRICAL DEMOLITION KEYED NOTES, SHEET ED-1.1:

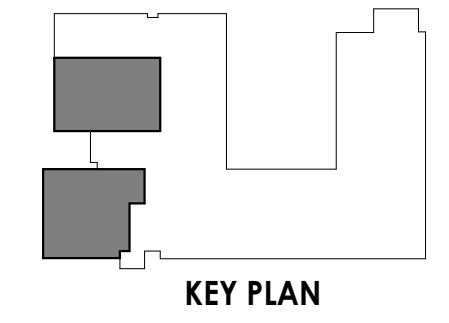
- 1 REMOVE AND RELOCATE EXISTING LIGHT FIXTURE. EXISTING BRANCH CIRCUIT TO REMAIN TO SERVE NEW, MODIFY AS REQUIRED. REFER TO NEW WORK.
- 2 REMOVE AND RELOCATE EXISTING LIGHTING CONTROL SWITCH. REFER TO NEW WORK.
- 3 REMOVE EXISTING LIGHT FIXTURE. EXISTING BRANCH CIRCUIT TO REMAIN TO SERVE NEW, MODIFY AS REQUIRED. REFER TO NEW WORK.
- 4 REMOVE ALL EXISTING LIGHT FIXTURES, EMERGENCY LIGHT FIXTURES, ASSOCIATED LIGHTING CONTROL SENSORS, CONTROL SWITCHES. REMOVE BRANCH CIRCUIT BACK TO NEXT DEVICE NOT SCHEDULED FOR DEMOLITION. EXISTING CEILING MOUNTED OCCUPANCY SENSORS, POWER PACKS AND CONTROL SWITCHES TO BE REUSED IN NEW WORK.
- 5 EXISTING TO REMAIN.
- 6 NO WORK IN THIS AREA.
- 7 REMOVE ALL EXISTING THEATRICAL LIGHTING FIXTURES, ASSOCIATED CONTROLS, AND EQUIPMENT RACK. RETURN TO OWNER.



**LIGHTING DEMOLITION
PLAN - CAFETORIUM**
1 Electrical 1/8" = 1'-0"
NORTH

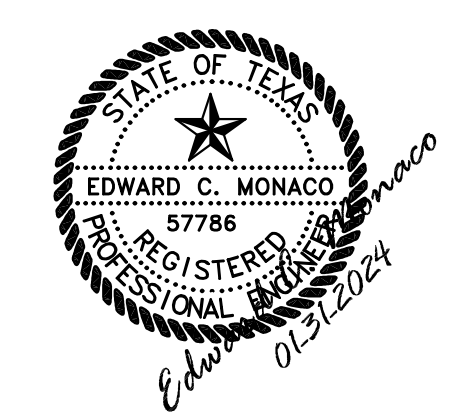


**LIGHTING DEMOLITION
PLAN - LIBRARY**
2 Electrical 1/8" = 1'-0"
NORTH



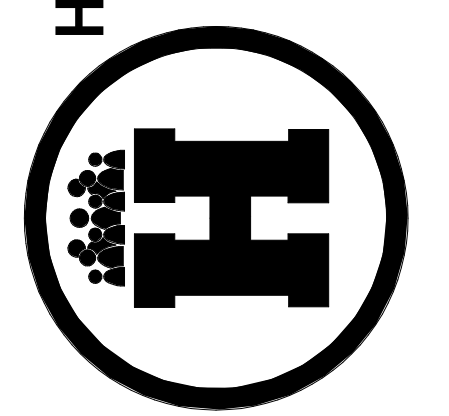
KEY PLAN

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SKYE MEP
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 8610 Broadway, Suite 415
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 State of Texas Firm Registration No. F-19468



ARCHITECTURA S.A., INC.
 ARCHITECTURE INTERIOR DESIGN PLANNING
 17038 REDLAND RD., SUITE 101, SAN ANTONIO, TEXAS 78247
 t. 210.384.8200 f. 210.319.3555
 architecturass@yahoo.com

**HISD CAREER TECHNOLOGY
 EDUCATION (CTE)**
 HARLANDALE INDEPENDENT SCHOOL DISTRICT
 519 W HARDING BLVD.
 SAN ANTONIO, TX 78221



Drawn By: JM
 Checked By: ECM
 Job Number: 2023.113

LIGHTING DEMOLITION PLAN

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Date: 04/24/23
 Drawing No:

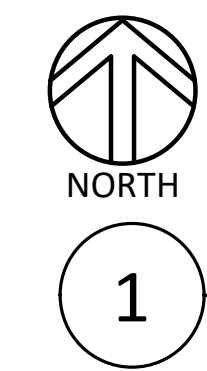
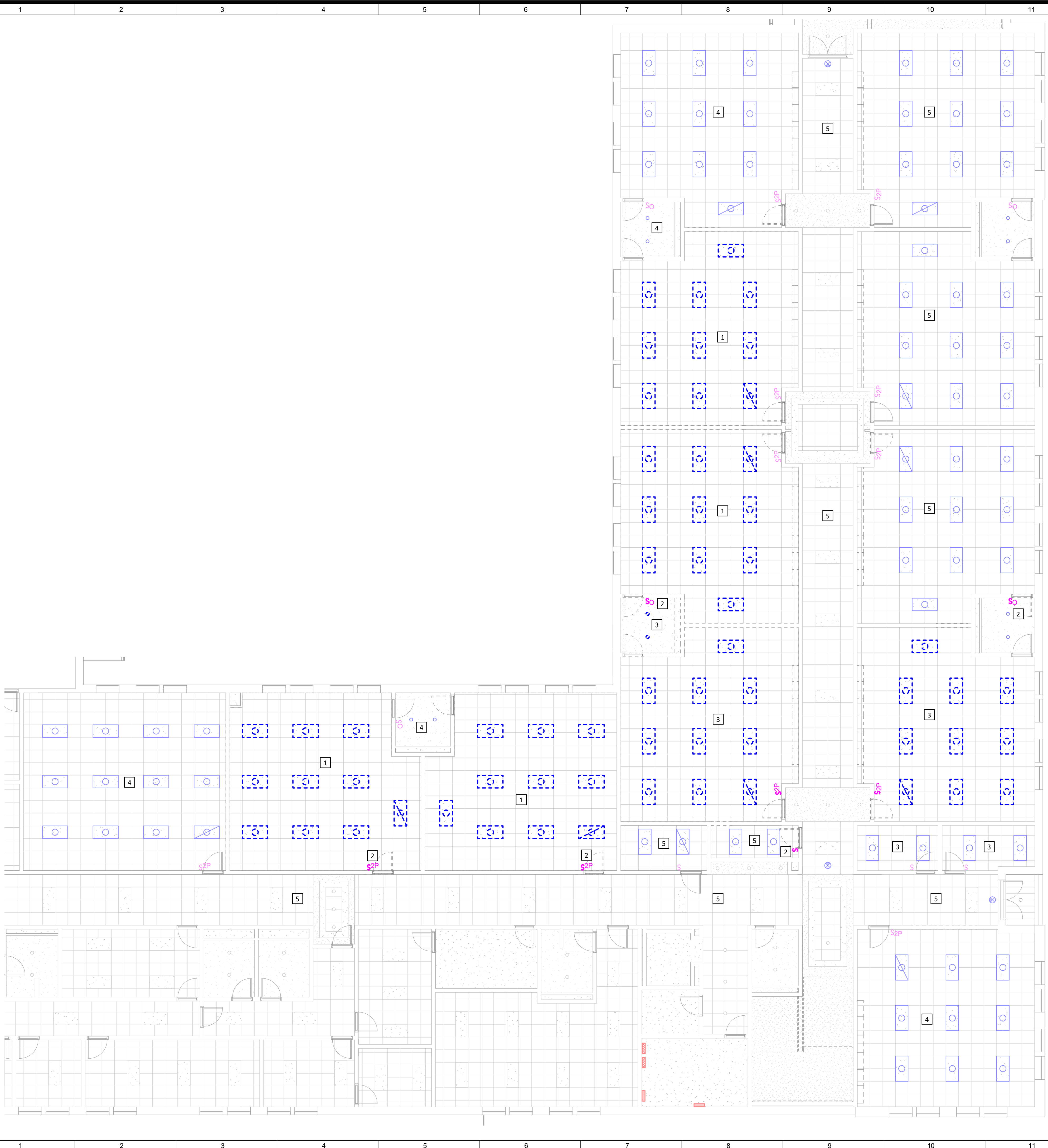
ED-1.2

ELECTRICAL GENERAL NOTES:

1. ALL EXISTING LIGHT FIXTURES, LIGHTING SWITCHES AND ASSOCIATED DEVICES, INDICATED DASHED, SHALL BE REMOVED. EXISTING BRANCH CIRCUIT TO REMAIN TO SERVE NEW.
2. REFER TO SHEET E-0.1 FOR GENERAL NOTES.

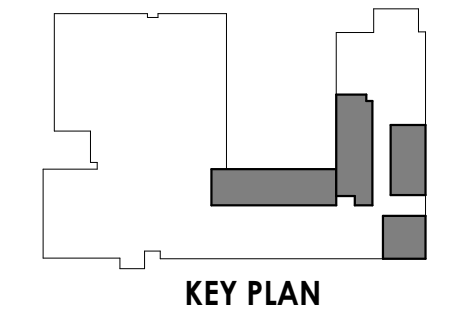
ELECTRICAL DEMOLITION KEYED NOTES, SHEET ED-1.2:

- 1 REMOVE AND RELOCATE EXISTING LIGHT FIXTURE. EXISTING BRANCH CIRCUIT TO REMAIN TO SERVE NEW. MODIFY AS REQUIRED. REFER TO NEW WORK. EXISTING CEILING MOUNTED OCCUPANCY SENSORS, POWER PACKS AND CONTROL SWITCHES TO BE REUSED IN NEW WORK.
- 2 REMOVE AND RELOCATE EXISTING LIGHTING CONTROL SWITCH. REFER TO NEW WORK.
- 3 REMOVE EXISTING LIGHT FIXTURE. EXISTING BRANCH CIRCUIT TO REMAIN TO SERVE NEW. MODIFY AS REQUIRED. REFER TO NEW WORK. EXISTING CEILING MOUNTED OCCUPANCY SENSORS, POWER PACKS AND CONTROL SWITCHES TO BE REUSED IN NEW WORK.
- 4 EXISTING TO REMAIN.
- 5 NO WORK IN THIS AREA.



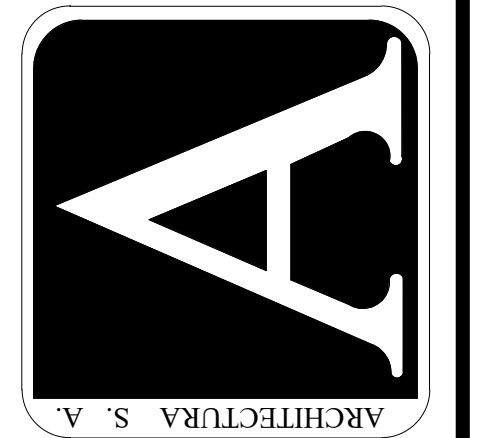
1 LIGHTING DEMOLITION PLAN

Electrical 1/8" = 1'-0"



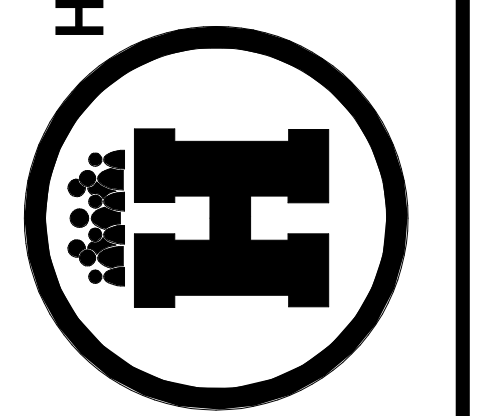
KEY PLAN

ENGINEERING &
SKYE MEP
COMMISSIONING
8610 Broadway, Suite 415
San Antonio, Texas 78217
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ARCHITECTURA S.A., INC.
ARCHITECTURE INTERIOR DESIGN PLANNING
17038 REDLAND RD., SUITE 101, SAN ANTONIO, TEXAS 78247
t. 210.384.8200 f. 210.319.3555
architecturass@yahoo.com

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EDUCATION (CTE)**
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SAN ANTONIO, TX 78221



Drawn By: JM
Checked By: ECM
Job Number: 2023.113

ELECTRICAL DEMOLITION PLAN

| No. | DATE | DESCRIPTION |
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Date: 04/24/23
Drawing No:

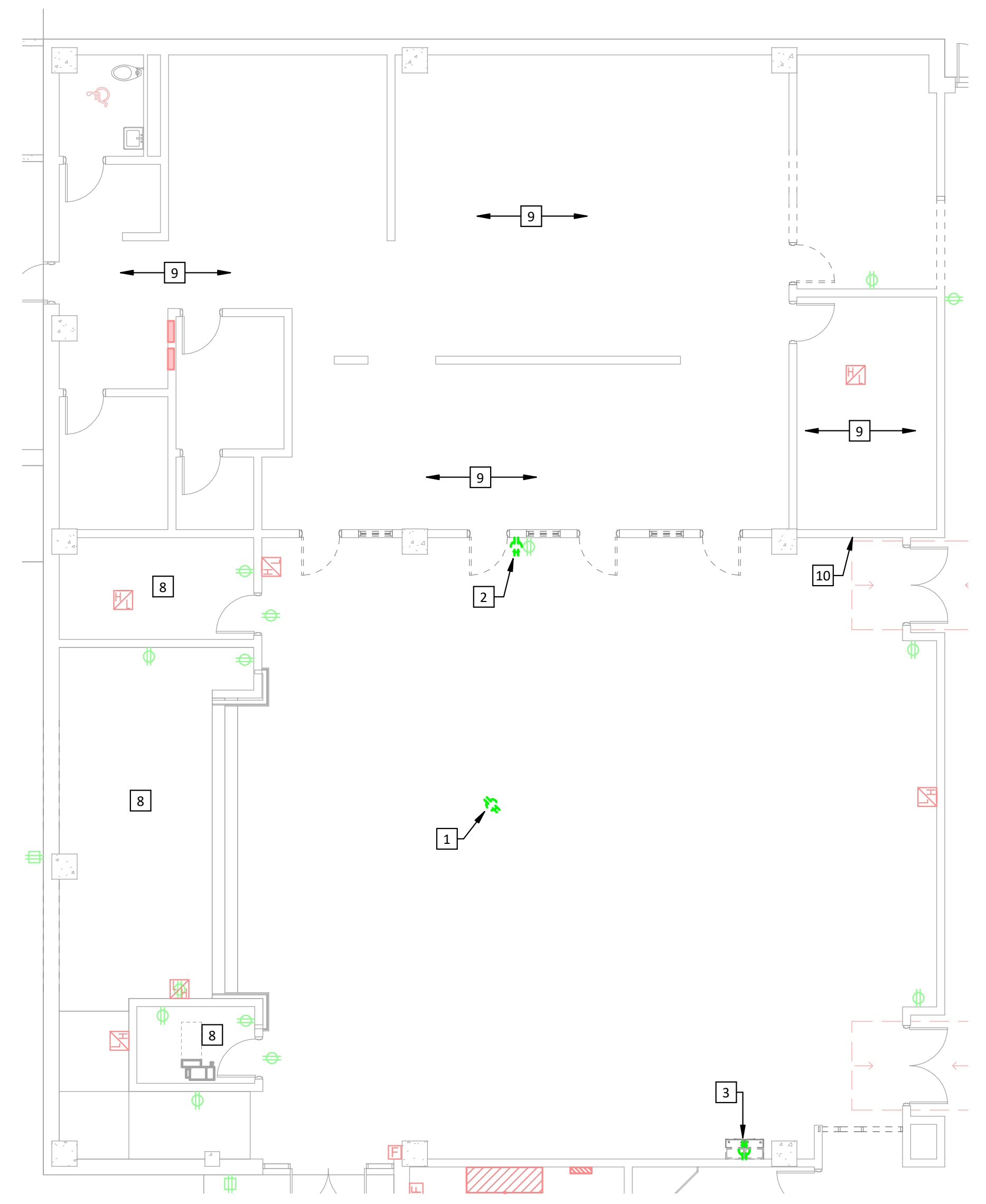
ED-2.1

ELECTRICAL GENERAL NOTES:

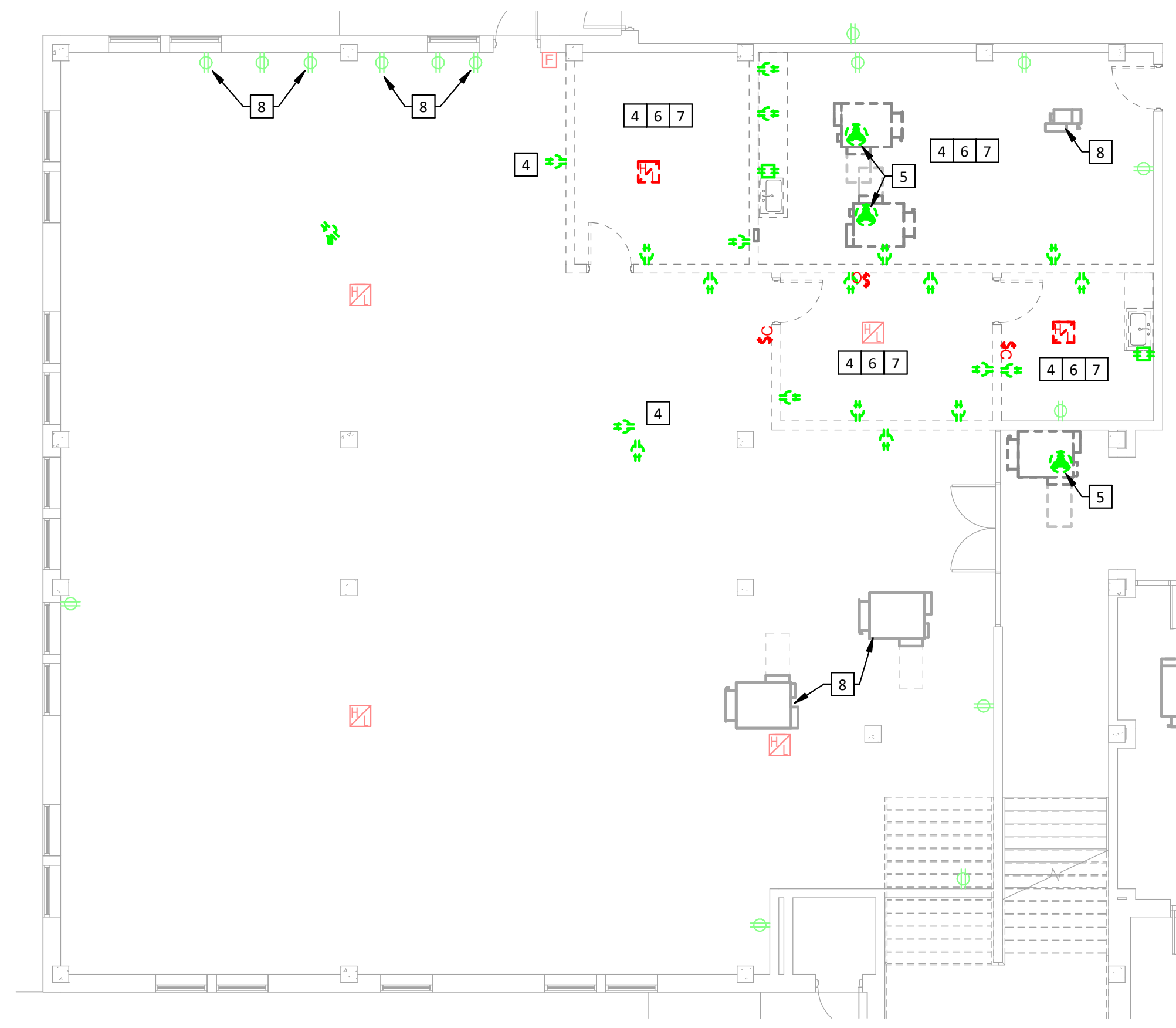
1. ALL EXISTING RECEPTACLE OUTLETS INDICATED DASHED SHALL BE REMOVED BACK TO PANEL IF NOT SERVING OTHER WIRING DEVICES NOT SCHEDULED FOR DEMOLITION. EXISTING RECEPTACLE OUTLETS SHOWN SCREEN AND ANY OUTLETS NOT SHOWN TO BE REMOVED SHALL REMAIN CONNECTED TO BRANCH CIRCUIT.
2. REFER TO GENERAL ELECTRICAL AND DEMOLITION NOTES ON SHEET E-0.1.
3. ALL EXISTING FIRE ALARM DEVICES INDICATED DASHED SHALL BE REMOVED BACK TO OTHER WIRING DEVICES NOT SCHEDULED FOR DEMOLITION. EXISTING FIRE ALARM DEVICES SHOWN SCREEN AND ANY OUTLETS NOT SHOWN TO BE REMOVED SHALL REMAIN CONNECTED TO FIRE ALARM SYSTEM.
4. ALL EXISTING PUBLIC ADDRESS SOUND SYSTEM DEVICES INDICATED DASHED SHALL BE REMOVED BACK TO OTHER WIRING DEVICES NOT SCHEDULED FOR DEMOLITION. EXISTING PUBLIC ADDRESS SOUND SYSTEM DEVICES SHOWN SCREEN AND ANY OUTLETS NOT SHOWN TO BE REMOVED SHALL REMAIN CONNECTED TO PUBLIC ADDRESS SOUND SYSTEM.

ELECTRICAL DEMOLITION KEYED NOTES, SHEET ED-2.1:

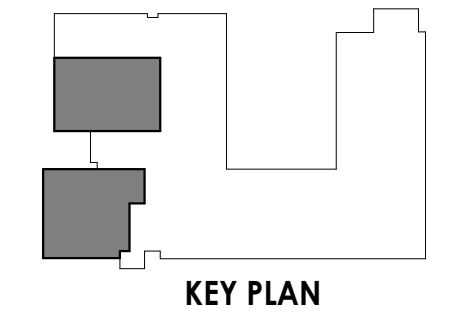
- 1 REMOVE EXISTING CEILING MOUNTED RECEPTACLE SERVING PROJECTOR. REMOVE BRANCH CIRCUIT BACK TO PANEL.
- 2 REMOVE EXISTING RECEPTACLE OUTLET. REMOVE BRANCH CIRCUIT BACK TO PANEL IF NOT SERVING OTHER WIRING DEVICES NOT SCHEDULED FOR DEMOLITION. ANY OUTLETS NOT SHOWN TO BE REMOVED SHALL REMAIN CONNECTED TO BRANCH CIRCUIT.
- 3 REMOVE EXISTING RECEPTACLE SERVING DRINKING FOUNTAIN BEING REMOVED. REMOVE BRANCH CIRCUIT BACK TO PANEL.
- 4 REMOVE ALL EXISTING RECEPTACLE OUTLETS, CONNECTIONS, OUTLET BOXES, PULL BOXES, JUNCTION BOXES, ASSOCIATED COMPONENTS FROM WALL BEING DEMOLISHED. REMOVE PORTION OF BRANCH CIRCUITS, CONDUIT AND WIRING. EXISTING BRANCH CIRCUIT TO REMAIN TO SERVE NEW. ANY OUTLETS NOT SHOWN TO BE REMOVED SHALL REMAIN CONNECTED TO BRANCH CIRCUIT.
- 5 REMOVE EXISTING ELECTRICAL CONNECTION TO MECHANICAL EQUIPMENT BEING RELOCATED. RELOCATE EXISTING DISCONNECT SWITCH. MODIFY EXISTING BRANCH CIRCUIT AS REQUIRED.
- 6 REMOVE EXISTING PUBLIC ADDRESS SOUND SYSTEM SPEAKER, CABLING AND ASSOCIATED CALL-BACK SWITCH BACK TO NEXT DEVICE REMAINING IN SERVICE.
- 7 REMOVE EXISTING FIRE ALARM DEVICES. REMOVE CABLING BACK TO NEXT DEVICE REMAINING IN SERVICE.
- 8 EXISTING TO REMAIN.
- 9 NO WORK IN THIS AREA.
- 10 REMOVE COILING DOOR AND ALL ASSOCIATED COMPONENTS. REMOVE BRANCH CIRCUIT BACK TO PANEL AND ANY CONTROL WIRING BACK TO SOURCE.



POWER DEMOLITION PLAN - CAFETORIUM
1 Electrical 1/8" = 1'-0"
NORTH

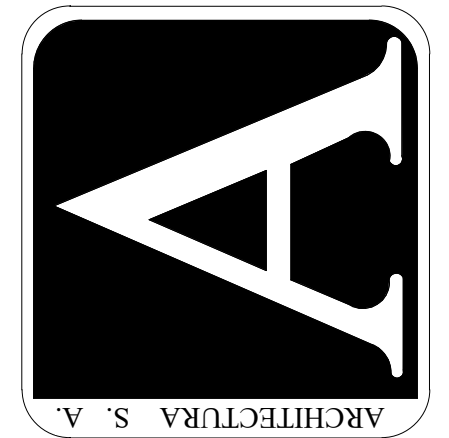
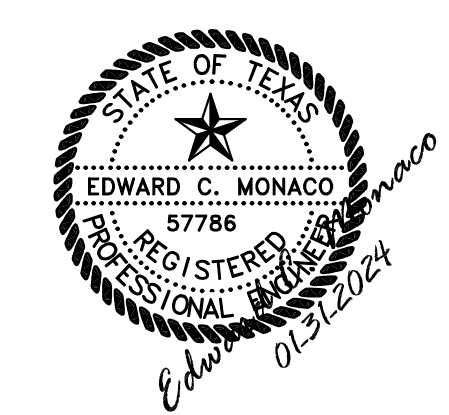


POWER DEMOLITION PLAN - LIBRARY
2 Electrical 1/8" = 1'-0"
NORTH



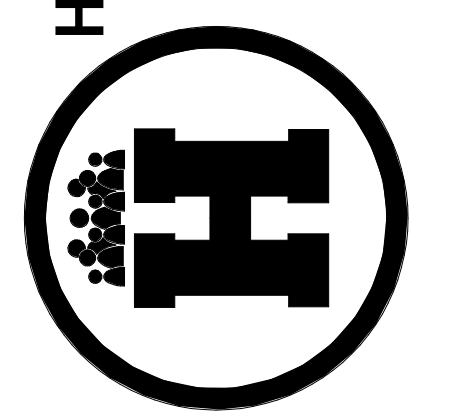
KEY PLAN

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SAN ANTONIO, TX 78221



Drawn By: JM
Checked By: ECM
Job Number: 2023.113

ELECTRICAL DEMOLITION PLAN

| No. | DATE | DESCRIPTION |
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Date: 04/24/23
Drawing No:

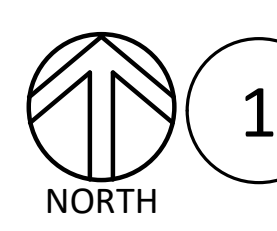
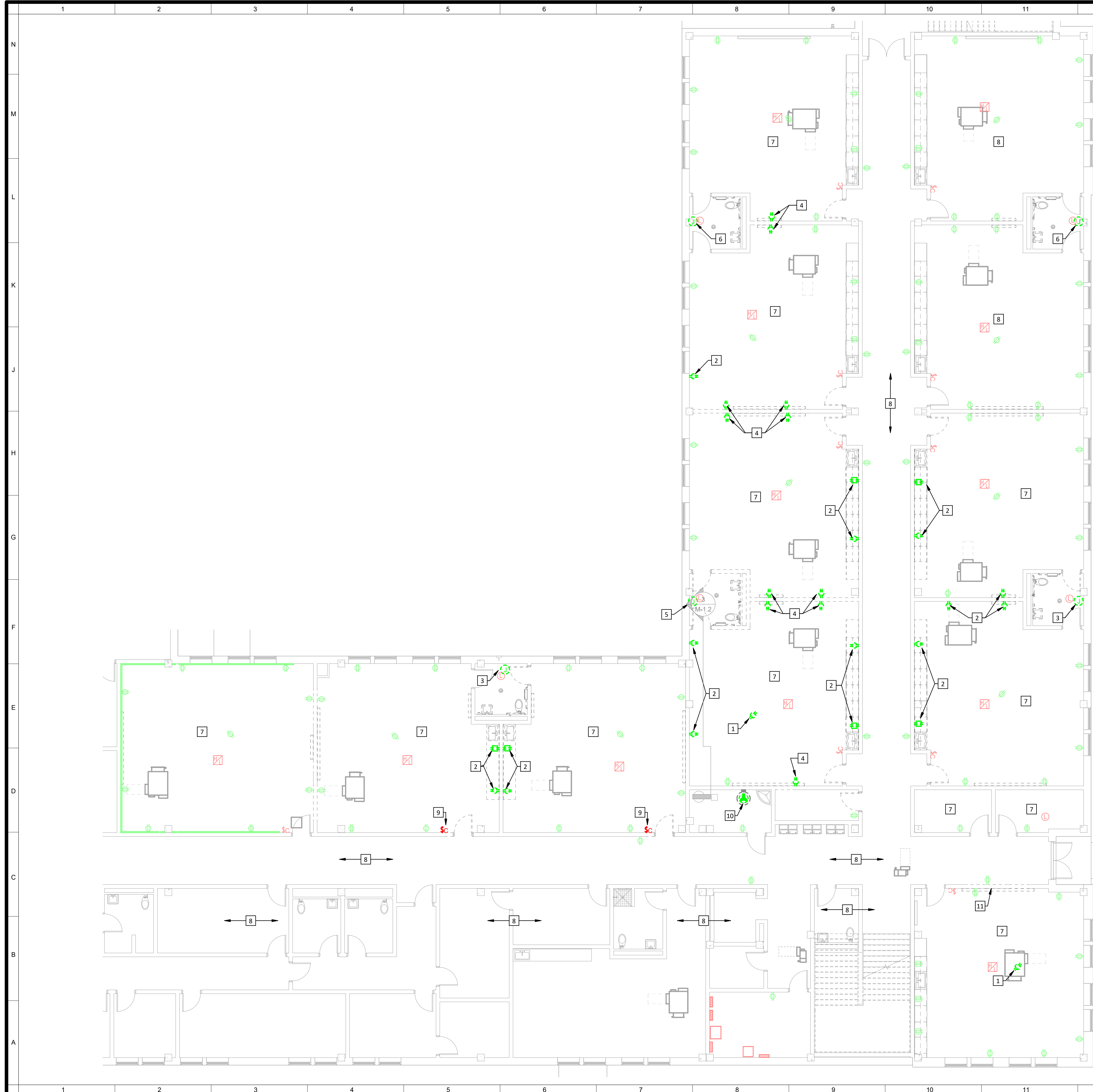
ED-2.2

ELECTRICAL GENERAL NOTES:

- ALL EXISTING RECEPTACLE OUTLETS INDICATED DASHED SHALL BE REMOVED BACK TO PANEL IF NOT SERVING OTHER WIRING DEVICES NOT SCHEDULED FOR DEMOLITION. EXISTING RECEPTACLE OUTLETS SHOWN SCREEN AND ANY OUTLETS NOT SHOWN TO BE REMOVED SHALL REMAIN CONNECTED TO BRANCH CIRCUIT.
- REFER TO GENERAL ELECTRICAL AND DEMOLITION NOTES ON SHEET E-0.1.
- ALL EXISTING FIRE ALARM DEVICES INDICATED DASHED SHALL BE REMOVED BACK TO OTHER WIRING DEVICES NOT SCHEDULED FOR DEMOLITION. EXISTING FIRE ALARM DEVICES SHOWN SCREEN AND ANY OUTLETS NOT SHOWN TO BE REMOVED SHALL REMAIN CONNECTED TO FIRE ALARM SYSTEM. PROTECT DURING CONSTRUCTION.
- ALL EXISTING PUBLIC ADDRESS SOUND SYSTEM DEVICES INDICATED DASHED SHALL BE REMOVED BACK TO OTHER WIRING DEVICES NOT SCHEDULED FOR DEMOLITION. EXISTING PUBLIC ADDRESS SOUND SYSTEM DEVICES SHOWN SCREEN AND ANY OUTLETS NOT SHOWN TO BE REMOVED SHALL REMAIN CONNECTED TO PUBLIC ADDRESS SOUND SYSTEM. PROTECT DURING CONSTRUCTION.

ELECTRICAL DEMOLITION KEYED NOTES, SHEET ED-2.2:

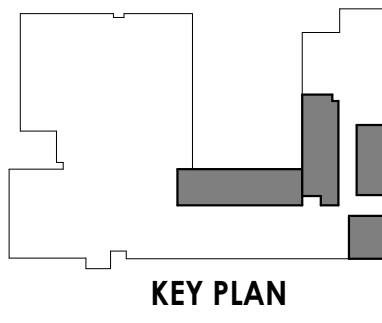
- REMOVE EXISTING CEILING MOUNTED RECEPTACLE SERVING PROJECTOR. REMOVE BRANCH CIRCUIT BACK TO PANEL.
- REMOVE EXISTING RECEPTACLE OUTLET. REMOVE BRANCH CIRCUIT BACK TO PANEL IF NOT SERVING OTHER WIRING DEVICES NOT SCHEDULED FOR DEMOLITION. ANY OUTLETS NOT SHOWN TO BE REMOVED SHALL REMAIN CONNECTED TO BRANCH CIRCUIT.
- REMOVE EXISTING CONNECTION SERVING HAND DRYER. REMOVE BRANCH CIRCUIT BACK TO PANEL.
- REMOVE ALL EXISTING RECEPTACLE OUTLETS, CONNECTIONS, OUTLET BOXES, PULL BOXES, JUNCTION BOXES, ASSOCIATED COMPONENTS FROM WALL BEING DEMOLISHED. REMOVE PORTION OF BRANCH CIRCUITS, CONDUIT AND WIRING. EXISTING BRANCH CIRCUIT TO REMAIN TO SERVE NEW. ANY OUTLETS NOT SHOWN TO BE REMOVED SHALL REMAIN CONNECTED TO BRANCH CIRCUIT.
- REMOVE EXISTING CONNECTION SERVING HAND DRYER. EXISTING BRANCH CIRCUIT TO REMAIN TO SERVE NEW. MODIFY AS REQUIRED.
- REMOVE AND RELOCATE EXISTING CONNECTION SERVING HAND DRYER. MODIFY EXISTING BRANCH CIRCUIT AS REQUIRED.
- EXISTING TO REMAIN EXCEPT WHERE INDICATED OTHERWISE.
- NO WORK IN THIS AREA.
- REMOVE EXISTING CALL-BACK SWITCH AND REINSTALL IN NEW WALL. REFER TO NEW WORK.
- REMOVE CONNECTION TO WATER HEATER. REMOVE DISCONNECT SWITCH. REMOVE BRANCH CIRCUIT BACK TO PANEL.
- VERIFY EXISTING CONDUIT ROUTING TO THESE OUTLETS. RE-ROUTE CONDUITS IF/AS NECESSARY TO AVOID PARTIAL WALL DEMOLITION FOR NEW GLASS AREA OPENINGS.



1 ELECTRICAL DEMOLITION PLAN

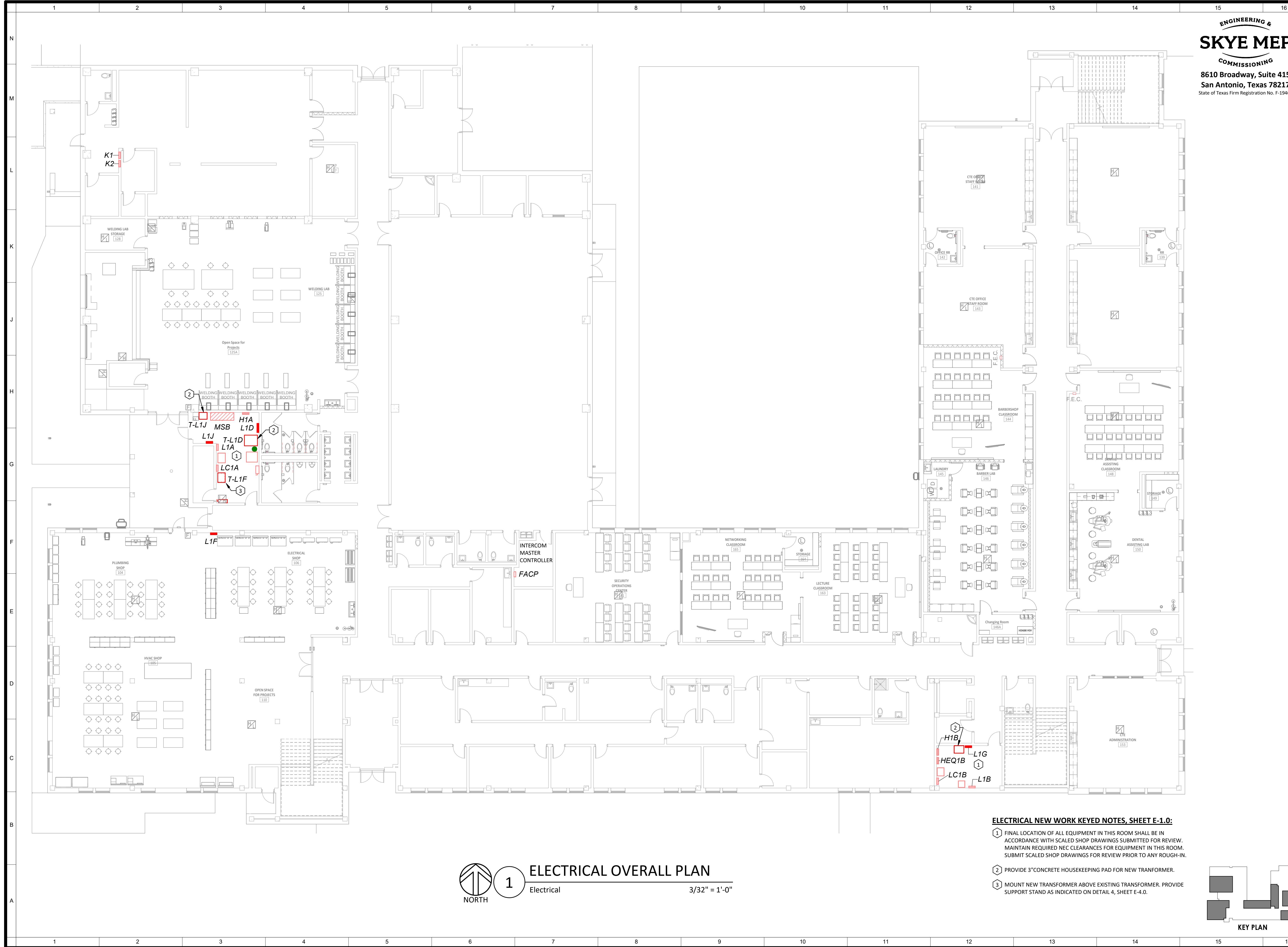
Electrical

1/8" = 1'-0"



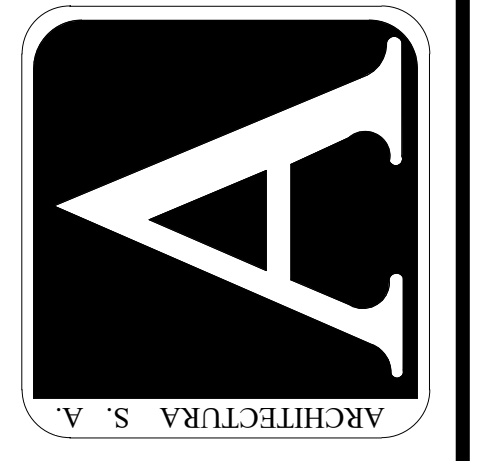
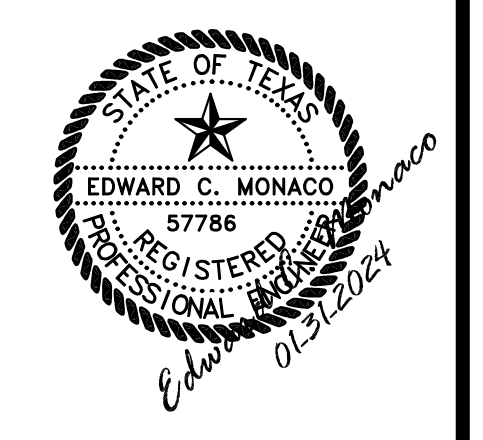
KEY PLAN

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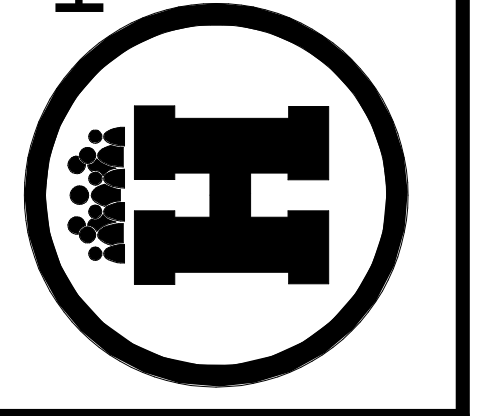
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SKYE MEP
COMMISSIONING
8610 Broadway, Suite 415
San Antonio, Texas 78217
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ARCHITECTURA S.A., INC.
ARCHITECTURE INTERIOR DESIGN PLANNING
17038 REDLAND RD., SUITE 101, SAN ANTONIO, TEXAS 78247
t. 210.384.8200 f. 210.319.3555
architecturass@yahoo.com

**HISD CAREER TECHNOLOGY
EDUCATION (CTE)**
HARLANDALE INDEPENDENT SCHOOL DISTRICT
519 W HARDING BLVD.
SAN ANTONIO, TX 78221



Drawn By: JM
Checked By: ECM
Job Number: 2023.113

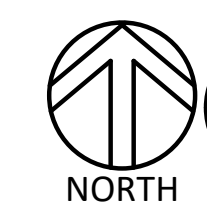
ELECTRICAL OVERALL PLAN

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Date: 04/24/23
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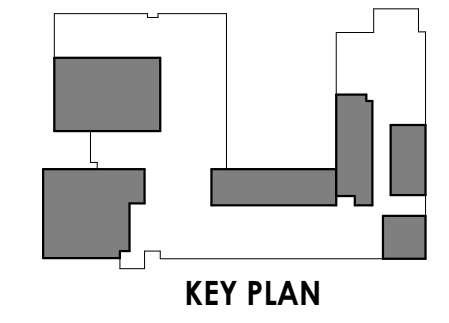
E-1.0

1 ELECTRICAL OVERALL PLAN
Electrical 3/32" = 1'-0"



ELECTRICAL NEW WORK KEYED NOTES, SHEET E-1.0:

- 1 FINAL LOCATION OF ALL EQUIPMENT IN THIS ROOM SHALL BE IN ACCORDANCE WITH SCALED SHOP DRAWINGS SUBMITTED FOR REVIEW. MAINTAIN REQUIRED NEC CLEARANCES FOR EQUIPMENT IN THIS ROOM. SUBMIT SCALED SHOP DRAWINGS FOR REVIEW PRIOR TO ANY ROUGH-IN.
- 2 PROVIDE 3" CONCRETE HOUSEKEEPING PAD FOR NEW TRANSFORMER.
- 3 MOUNT NEW TRANSFORMER ABOVE EXISTING TRANSFORMER. PROVIDE SUPPORT STAND AS INDICATED ON DETAIL 4, SHEET E-4.0.

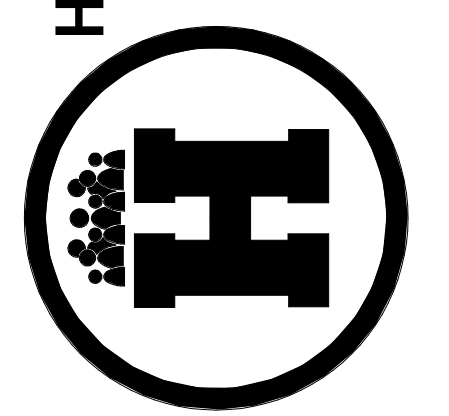


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 ARCHITECTURE INTERIOR DESIGN PLANNING
 17038 REDLAND RD., SUITE 101, SAN ANTONIO, TEXAS 78247
 t. 210.384.8200 f. 210.319.3555
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Drawn By: JM
 Checked By: ECM
 Job Number: 2023.113

LIGHTING PLAN

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Date: 04/24/23

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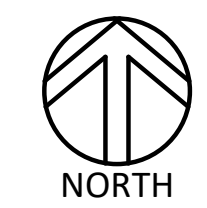
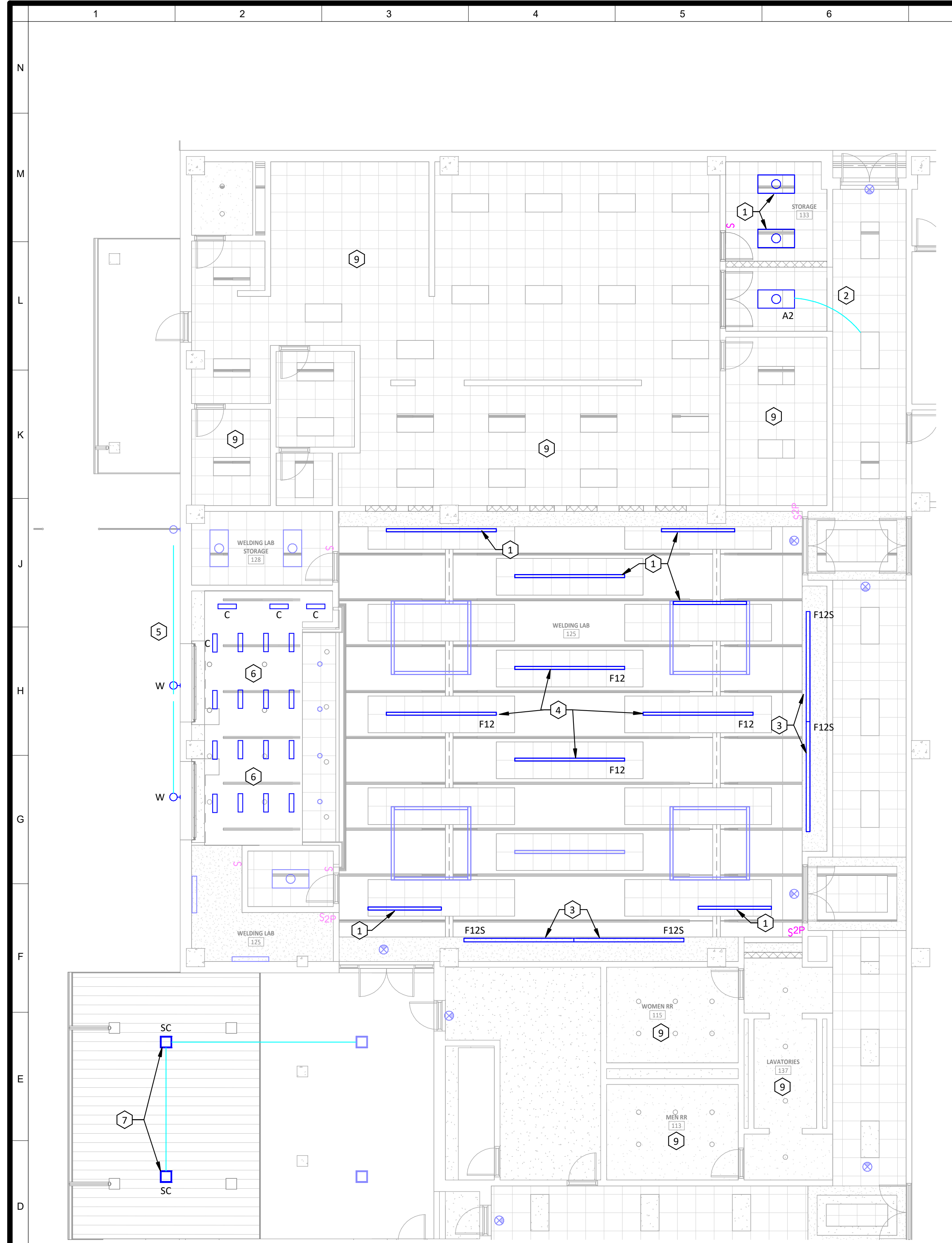
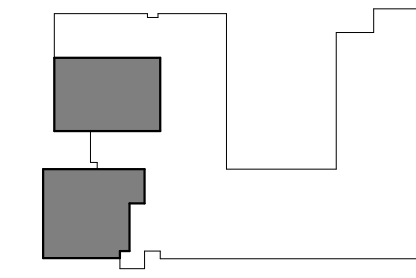
E-1.1

ELECTRICAL GENERAL NOTES:

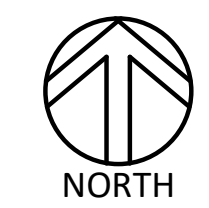
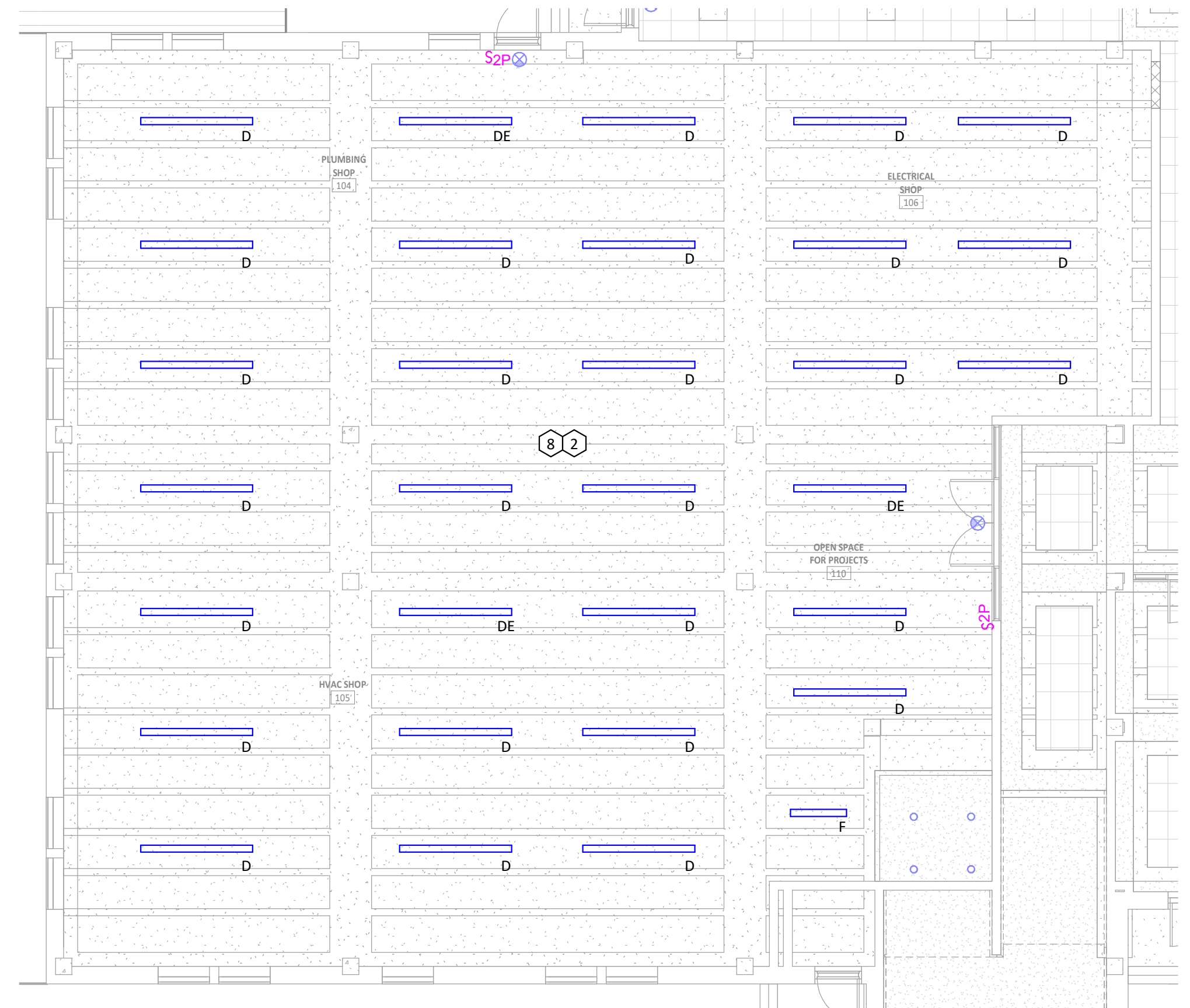
- REFER TO ARCHITECTURAL SHEETS FOR WALL MOUNTED EXTERIOR LIGHT FIXTURE LOCATIONS AND ELEVATIONS.
- AT ALL WALL MOUNTED EXTERIOR LIGHT FIXTURES, PROVIDE WEATHER-TIGHT INSTALLATION BETWEEN JUNCTION BOX AND LIGHT FIXTURE.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLAN (RCP) FOR EXACT LOCATIONS/ELEVATIONS OF LIGHT FIXTURES. FURNISH FIXTURES WITH TRIM COMPATIBLE WITH THE TYPE OF CEILING AS INDICATED ON THE ARCHITECTURAL RCP.
- COORDINATE THE INSTALLATION OF ELECTRICAL WORK ABOVE THE CEILING TO PROVIDE THE GREATEST POSSIBLE CLEARANCE FOR PLUMBING AND MECHANICAL EQUIPMENT. CONDUITS SHALL BE KEPT TIGHT TO STRUCTURE OR ROUTED THROUGH STRUCTURAL TRUSSES WHEREVER POSSIBLE.
- COORDINATE PLACEMENT OF LIGHT FIXTURES WITH ACTUAL INSTALLATION OF ALL OTHER TRADES, PRIOR TO ROUGH-IN OF SUCH TRADES.
- COORDINATE ROUGH-IN OF LIGHTING DEVICES WITH ARCHITECTURAL ELEVATIONS, SECTIONS AND DETAILS. INSTALL DEVICE BOXES FLUSH WITH FINISHED SURFACE.
- FURNISH DEDICATED NEUTRAL CONDUCTOR FOR ALL SINGLE PHASE CIRCUITS.
- MINIMUM PHASE, NEUTRAL AND GROUND CONDUCTOR SIZES FOR LIGHTING CIRCUITS SHALL BE #10 CU.
- ALL ABOVE-CEILING LOW VOLTAGE CABLING SHALL EITHER BE PLENUM-RATED OR INSTALLED IN LISTED CONDUIT, IN ACCORDANCE WITH 2017 NEC ARTICLE 300.22 (C) (1). CABLING THAT IS NOT INSTALLED IN CONDUIT SHALL BE SUPPORTED BY J-HOOKS SPACED NOT MORE THAN 5 FT ON CENTER.
- LOW VOLTAGE CABLING ABOVE INACCESSIBLE CEILINGS SHALL BE INSTALLED IN CONDUIT.
- REFER TO SHEET E-3.0 FOR LIGHT FIXTURE SCHEDULE.
- PROVIDE U.L. LISTED FIRE STOP SYSTEMS AT ALL CONDUIT PENETRATIONS THROUGH FIRE OR SMOKE RATED PARTITIONS. SEAL AROUND CONDUIT PENETRATIONS THROUGH NON-RATED PARTITIONS WITH JOINT COMPOUND OR GROUT. REFER TO ARCHITECTURAL SHEETS FOR FIRE-RATED PARTITIONS.
- FOR LOW VOLTAGE 0-10V LIGHTING CONTROL CABLING, PROVIDE TWISTED, SHIELDED PAIR, WITH SHIELD SOLIDLY GROUNDED AT THE SOURCE.
- ALL EXPOSED CONDUIT SHALL BE PAINTED TO MATCH STRUCTURE. REFER TO ARCHITECTURAL SHEETS FOR FURTHER INFORMATION.
- DO NOT INSTALL JUNCTION BOXES OR LIGHTING CONTROL MODULES, POWER PACKS, ETC. ABOVE INACCESSIBLE CEILINGS.
- MAINTAIN MINIMUM 24" SEPARATION BETWEEN ALL LOW VOLTAGE CABLE PATHWAYS AND ELECTRICAL FEEDERS/BRANCH CIRCUITS, WHEREVER THEY ARE PARALLEL. FEEDERS/BRANCH CIRCUITS MAY CROSS PERPENDICULAR TO CABLE PATHWAY WITH MINIMUM 4" SEPARATION.
- REFER TO ELECTRICAL SYMBOLS LEGEND ON SHEET E-0.1.
- REFER TO ELECTRICAL DETAILS SHEET E-4.0.

ELECTRICAL NEW WORK KEYED NOTES, SHEET E1.1:

- NEW LOCATION OF EXISTING LIGHT FIXTURES. MODIFY EXISTING BRANCH CIRCUIT AS REQUIRED.
- CONNECT TO EXISTING BRANCH CIRCUIT.
- CONNECT TO EXISTING BRANCH CIRCUIT. MOUNT FIXTURE TO DRYWALL SOFFIT.
- MOUNT NEW FIXTURES TO MATCH EXISTING LIGHT FIXTURE ELEVATION.
- CONNECT TO EXISTING EXTERIOR LIGHTING BRANCH CIRCUIT. THROUGH EXISTING EXTERIOR LIGHTING CONTROLS. VERIFY EXISTING CIRCUIT NUMBER, AS REQUIRED. MODIFY BRANCH CIRCUIT AS REQUIRED.
- EXISTING LIGHT FIXTURES TO BE LOWERED AND SUSPENDED APPROXIMATELY 14'-0" A.F.F. TO BOTTOM OF FIXTURE. PROVIDE ALL NECESSARY MOUNTING ACCESSORIES. COORDINATE LOCATION OF LIGHT FIXTURES WITH OVERHEAD DOOR, STRUCTURE, ETC.
- MOUNT LIGHT FIXTURES TO UNDERSIDE OF CANOPY. COORDINATE FINAL LOCATION WITH CANOPY FEATURES. PROVIDE ALL NECESSARY MOUNTING ACCESSORIES. INSTALL AND MOUNT FIXTURES AND CONDUIT IN A MANNER APPROVED BY THE CANOPY SYSTEM MANUFACTURER. COORDINATE WITH THE CANOPY INSTALLER, AS REQUIRED. ROUTE CONDUIT CONCEALED ABOVE CANOPY SOFFIT. PAINT ALL EXPOSED CONDUIT TO MATCH THE CANOPY.
- SUSPEND LIGHT FIXTURES APPROXIMATELY 11'-0" A.F.F. TO BOTTOM OF FIXTURE. PROVIDE ALL NECESSARY MOUNTING ACCESSORIES. COORDINATE LOCATION OF LIGHT FIXTURES WITH MECHANICAL DUCTWORK, STRUCTURE, ETC. PRIOR TO ANY ROUGH-IN.
- NO WORK IN THIS AREA.



1 LIGHTING PLAN - WELDING LAB
 Electrical 1/8" = 1'-0"



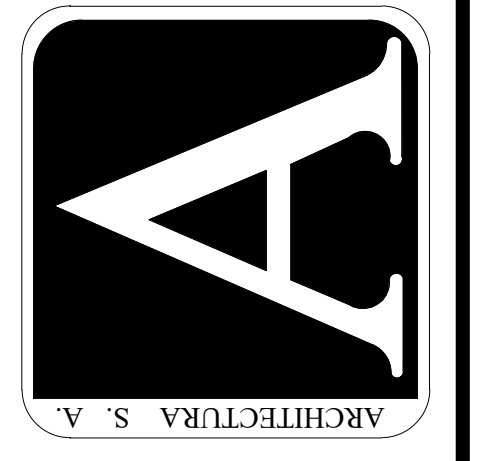
2 LIGHTING PLAN - MEP SHOPS
 Electrical 1/8" = 1'-0"

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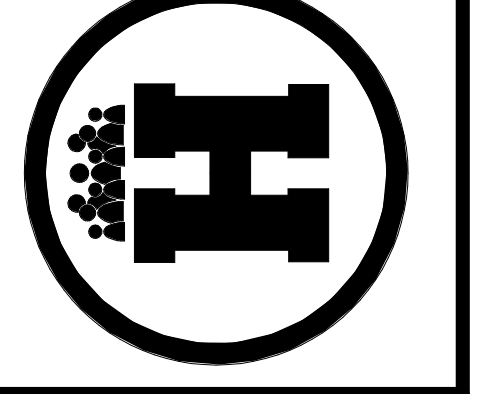
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ELECTRICAL GENERAL NOTES:

- 1. REFER TO ARCHITECTURAL SHEETS FOR WALL MOUNTED EXTERIOR LIGHT FIXTURE LOCATIONS AND ELEVATIONS.
2. AT ALL WALL MOUNTED EXTERIOR LIGHT FIXTURES, PROVIDE WEATHER-TIGHT INSTALLATION BETWEEN JUNCTION BOX AND LIGHT FIXTURE.
3. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN (RCP) FOR EXACT LOCATIONS/ELEVATIONS OF LIGHT FIXTURES. FURNISH FIXTURES WITH TRIM COMPATIBLE WITH THE TYPE OF CEILING AS INDICATED ON THE ARCHITECTURAL RCP.
4. COORDINATE THE INSTALLATION OF ELECTRICAL WORK ABOVE THE CEILING TO PROVIDE THE GREATEST POSSIBLE CLEARANCE FOR PLUMBING AND MECHANICAL EQUIPMENT. CONDUITS SHALL BE KEPT TIGHT TO STRUCTURE OR ROUTED THROUGH STRUCTURAL TRUSSES WHEREVER POSSIBLE.
5. COORDINATE PLACEMENT OF LIGHT FIXTURES WITH ACTUAL INSTALLATION OF ALL OTHER TRADES, PRIOR TO ROUGH-IN OF SUCH TRADES.
6. COORDINATE ROUGH-IN OF LIGHTING DEVICES WITH ARCHITECTURAL ELEVATIONS, SECTIONS AND DETAILS. INSTALL DEVICE BOXES FLUSH WITH FINISHED SURFACE.
7. FURNISH DEDICATED NEUTRAL CONDUCTOR FOR ALL SINGLE PHASE CIRCUITS.
8. MINIMUM PHASE, NEUTRAL AND GROUND CONDUCTOR SIZES FOR LIGHTING CIRCUITS SHALL BE #10 CU.
9. ALL ABOVE-CEILING LOW VOLTAGE CABLING SHALL EITHER BE PLENUM-RATED OR INSTALLED IN LISTED CONDUIT, IN ACCORDANCE WITH 2017 NEC ARTICLE 300.22 (C) (1). CABLING THAT IS NOT INSTALLED IN CONDUIT SHALL BE SUPPORTED BY J-HOOKS SPACED NOT MORE THAN 5 FT ON CENTER.
10. LOW VOLTAGE CABLING ABOVE INACCESSIBLE CEILINGS SHALL BE INSTALLED IN CONDUIT.
11. REFER TO SHEET E-3.0 FOR LIGHT FIXTURE SCHEDULE.
12. PROVIDE U.L. LISTED FIRE STOP SYSTEMS AT ALL CONDUIT PENETRATIONS THROUGH FIRE OR SMOKE RATED PARTITIONS. SEAL AROUND CONDUIT PENETRATIONS THROUGH NON-RATED PARTITIONS WITH JOINT COMPOUND OR GROUT. REFER TO ARCHITECTURAL SHEETS FOR FIRE-RATED PARTITIONS.
13. FOR LOW VOLTAGE 0-10V LIGHTING CONTROL CABLING, PROVIDE TWISTED, SHIELDED PAIR, WITH SHIELD SOLIDLY GROUNDED AT THE SOURCE.
14. ALL EXPOSED CONDUIT SHALL BE PAINTED TO MATCH STRUCTURE. REFER TO ARCHITECTURAL SHEETS FOR FURTHER INFORMATION.
15. DO NOT INSTALL JUNCTION BOXES OR LIGHTING CONTROL MODULES, POWER PACKS, ETC. ABOVE INACCESSIBLE CEILINGS.
16. MAINTAIN MINIMUM 24" SEPARATION BETWEEN ALL LOW VOLTAGE CABLE PATHWAYS AND ELECTRICAL FEEDERS/BRANCH CIRCUITS, WHEREVER THEY ARE PARALLEL. FEEDERS/BRANCH CIRCUITS MAY CROSS PERPENDICULAR TO CABLE PATHWAY WITH MINIMUM 4" SEPARATION.
17. REFER TO ELECTRICAL SYMBOLS LEGEND ON SHEET E-0.1.
18. REFER TO ELECTRICAL DETAILS SHEET E-4.0.

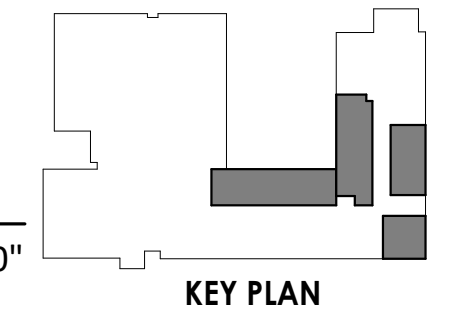
ELECTRICAL NEW WORK KEYED NOTES, SHEET E1.2:

- 1 NEW LOCATION OF EXISTING LIGHT FIXTURES. MODIFY EXISTING BRANCH CIRCUIT AS REQUIRED.
2 CONNECT TO EXISTING BRANCH CIRCUIT.
3 MOUNT FIXTURE CENTERED ABOVE MIRROR. COORDINATE EXACT LOCATION WITH ARCHITECT.
4 NEW LOCATION OF EXISTING LIGHT SWITCH. MODIFY BRANCH CIRCUIT/CONTROL WIRING AS REQUIRED.
5 EXISTING TO REMAIN.
6 NO WORK IN THIS AREA.
7 MODIFY EXISTING CONTROL WIRING. ONE POLE TO CONTROL LIGHT FIXTURES CLOSE TO TV, THE OTHER POLE TO CONTROL THE REST OF THE LIGHT FIXTURES IN THE SPACE.
8 FIXTURES TO BE CONTROLLED THRU EXISTING CEILING MOUNTED OCCUPANCY SENSOR.



1 LIGHTING PLAN Electrical

1/8" = 1'-0"



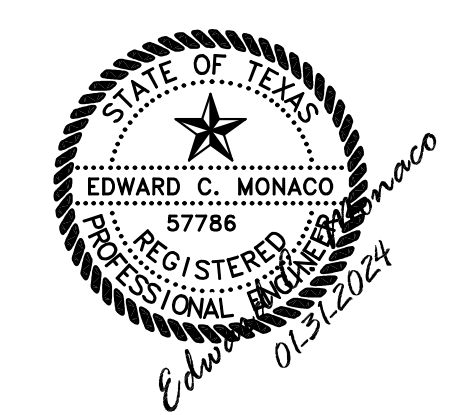
Drawn By: JM
Checked By: ECM
Job Number: 2023.113

LIGHTING PLAN

Table with columns: No., DATE, DESCRIPTION

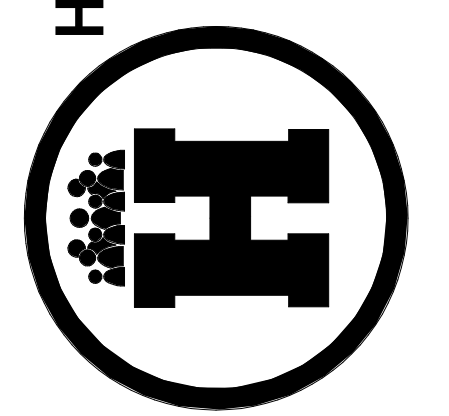
Date: 04/24/23
Drawing No:

E-1.2



ARCHITECTURA S.A., INC.
ARCHITECTURE INTERIOR DESIGN PLANNING
17038 REDLAND RD., SUITE 101, SAN ANTONIO, TEXAS 78247
t. 210.384.8200 f. 210.319.3555
architecturasaa@yahoo.com

HISD CAREER TECHNOLOGY EDUCATION (CTE)
HARLANDALE INDEPENDENT SCHOOL DISTRICT
519 W HARDING BLVD.
SAN ANTONIO, TX 78221



Drawn By: JM
Checked By: ECM
Job Number: 2023.113

ENLARGED ELECTRICAL PLANS

| No. | DATE | DESCRIPTION |
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Date: 04/24/23
Drawing No:

E-2.1

- ELECTRICAL GENERAL NOTES:**
- REFER TO GENERAL ELECTRICAL NOTES ON SHEET E-0.1.
 - REFER TO OVERALL FLOOR PLAN, SHEET E-1.0 FOR PANEL LOCATIONS.

- ELECTRICAL NEW WORK KEYED NOTES, SHEET E-2.1:**
- NEW LOCATION OF EXISTING HAND DRYER. MODIFY EXISTING BRANCH CIRCUIT AS REQUIRED. COORDINATE MOUNTING HEIGHT WITH ARCHITECT.
 - PROVIDE 6" DIAMETER POKE THRU DEVICE FOR POWER, LEGRAND EVOLUTION 6AT, WITH ONE 20A DUPLEX RECEPTACLE CENTER MOUNT. COVER PLATE SHALL BE FLUSH WITH FINISHED FLOOR. COORDINATE FINISH WITH ARCHITECT. ROUTE BRANCH CIRCUIT IN 3/4" CONDUIT BELOW FLOOR TO PANEL.
 - PROVIDE OUTLET AS REQUIRED FOR CLOTHES DRYER, 30A, 208V, 1 PH. LOCATE 48" A.F.F. VERIFY RECEPTACLE ELEVATION AND NEMA CONFIGURATION WITH DRYER BEING PROVIDED AND PROVIDE PROPER RECEPTACLE.
 - PROVIDE OUTLET AS REQUIRED FOR CLOTHES WASHER, 20A, 120V. LOCATE 48" A.F.F. CONNECT TO EXISTING CIRCUIT SERVING HAND DRYER REMOVED.
 - CONNECT RECEPTACLES PROVIDED WITH ISLAND. ROUTE WITH CONCEALED RACEWAY. MOUNTED FLUSH WITH MILLWORK. VERIFY EXACT LOCATION AND ALL INSTALLATION REQUIREMENTS WITH ARCHITECTURAL PLANS. ROUTE CONDUIT FROM BELOW SLAB/UNDERFLOOR INTO MILLWORK AS REQUIRED.
 - PROVIDE OUTLET FOR CHARGING STATION. 120V. COORDINATE MOUNTING HEIGHT WITH ARCHITECT OR OWNER'S REPRESENTATIVE.
 - PROVIDE OUTLET AND CONNECTION AS REQUIRED FOR WALL MOUNTED FAN. SEE MECHANICAL PLANS FOR ACTUAL LOCATION OF UNIT. REFER TO ELECTRICAL CONNECTION SCHEDULE ON SHEET E-3.1.
 - PROVIDE INDUSTRIAL GRADE LIGHTED TOGGLE SWITCH FOR F-6. PROVIDE ENGRAVED LABEL "MANICURE EXHAUST FAN"

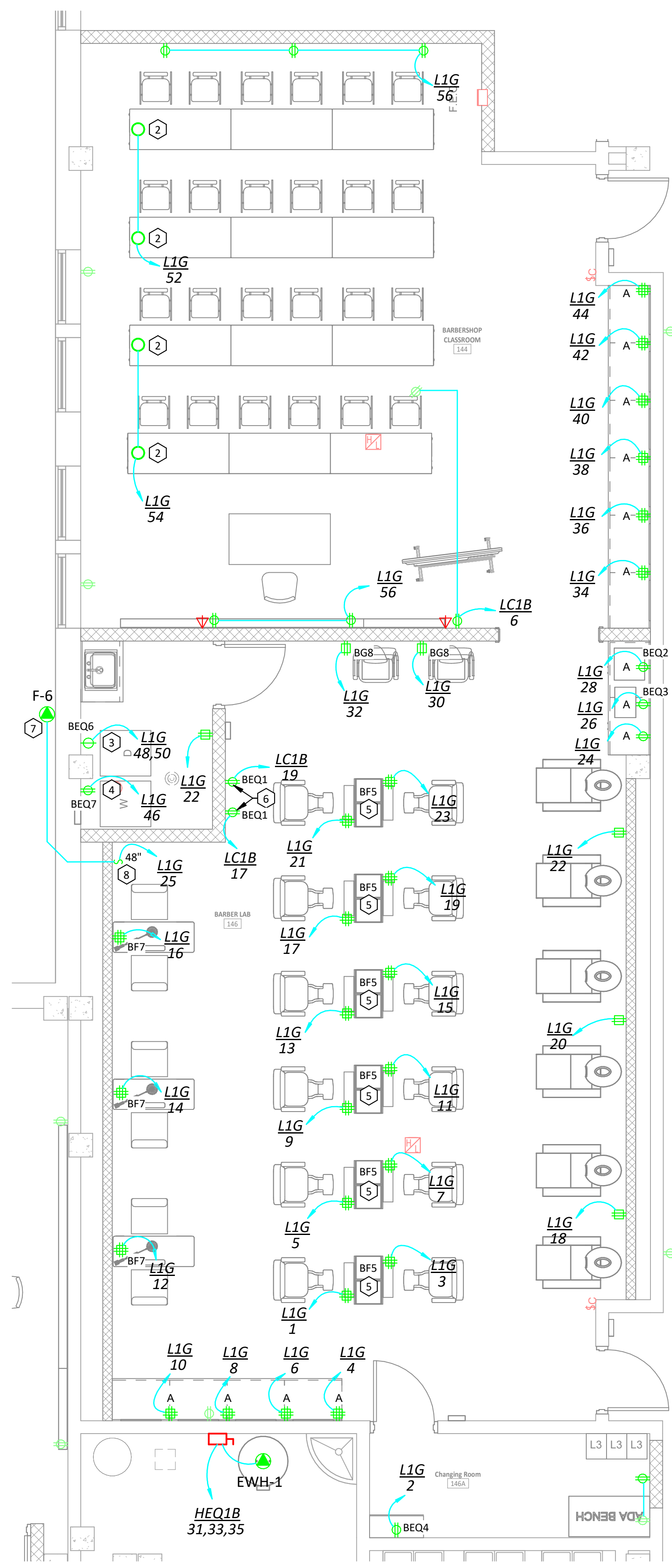
ELECTRICAL CONNECTION SCHEDULE

| MARK | EQUIPMENT SERVED | LOAD | VOLTS/PHASE | BRANCH CIRCUIT | NOTES |
|------|---------------------------|---------|-------------|----------------|-------|
| BF5 | STYLING BOOTH | 1800 VA | 120/1 | 30.2 | |
| BF7 | MANICURE STATION | 360 VA | 120/1 | 30.2 | |
| BF8 | SALON DRYER CHAIR | 8 A | 120/1 | 30.2 | |
| BEQ1 | WALL MTD.CHARGING STATION | 1260 VA | 120/1 | 20.2 | |
| BEQ2 | UV SANITIZER LIGHT | 10 A | 120/1 | 20.2 | |
| BEQ3 | TOWEL STEAMER | 700W | 120/1 | 20.2 | |
| BEQ4 | WIG DRYER | 13 A | 120/1 | 30.2 | |
| BEQ6 | ELECTRIC DRYER | 30 A | 208/1 | 30.2 | 1, 2 |
| BEQ7 | FRONT LOAD WASHER | 15 A | 120/1 | 20.2 | 1 |

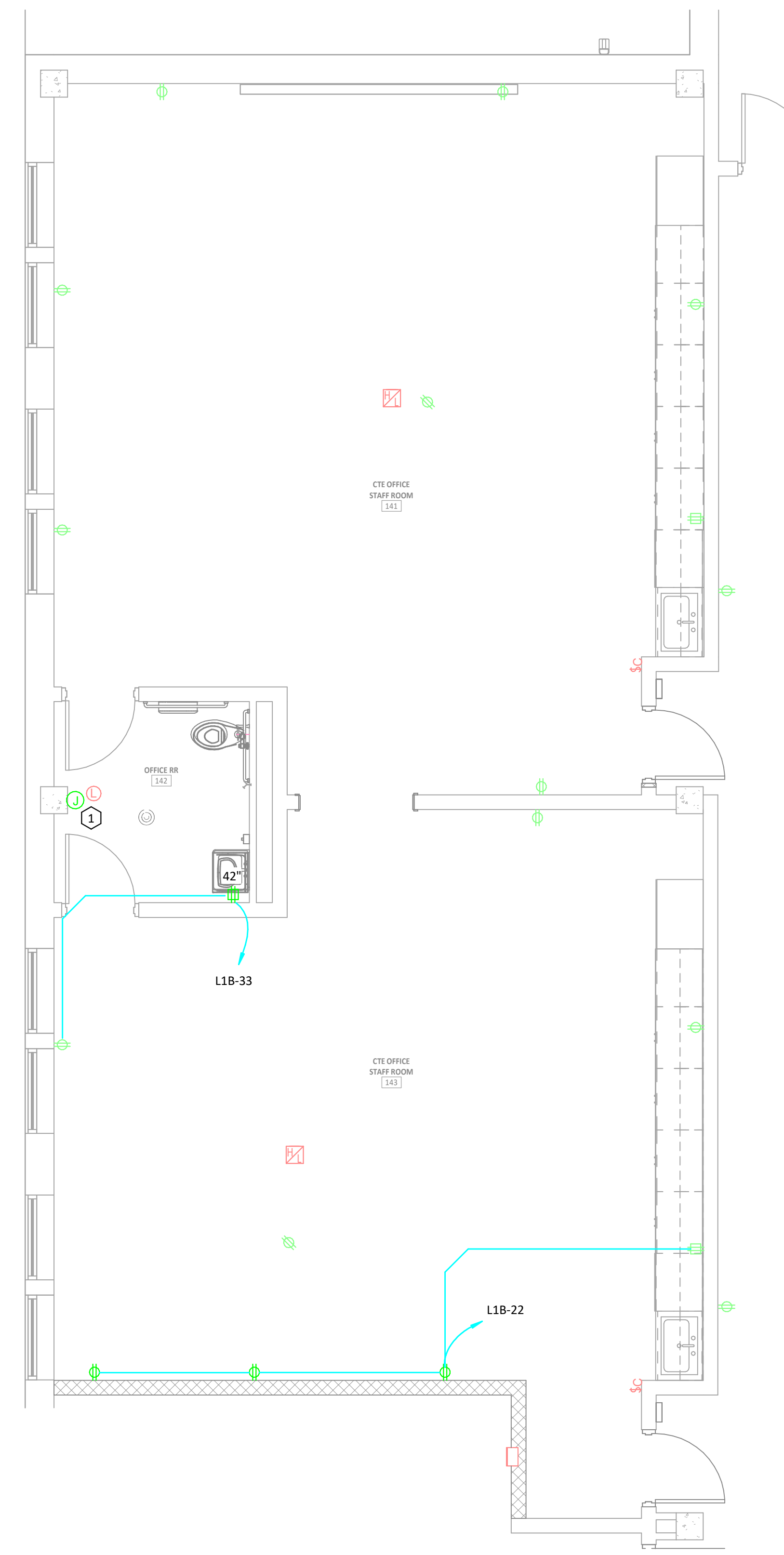
- GENERAL NOTES:**
- LOAD INDICATED IS NOMINAL. PROVIDE CONDUIT, CONDUCTORS, CIRCUIT BREAKERS, SWITCHES, FUSES, STARTERS, ETC. AS REQUIRED BY ACTUAL EQUIPMENT FURNISHED. COORDINATE WITH OTHER TRADES, AS REQUIRED.
 - ALL EQUIPMENT ROUGH-INS INDICATED ARE BASED ON DESIGNED EQUIPMENT. VERIFY ALL LOCATIONS AND RECEPTACLE TYPES WITH ACTUAL EQUIPMENT SUPPLIED. VERIFY ALL NAMEPLATE DATA FOR COMPLIANCE.
 - WHERE REQUIRED, FOR FINAL CONNECTION TO ELECTRICAL SUPPLY, PROVIDE AND INSTALL CORD AND CAP TO ACCOMMODATE EQUIPMENT SERVED.

- ELECTRICAL CONNECTION NOTES:**
- PROVIDE CORD, PLUG AND RECEPTACLE OF NEMA CONFIGURATION TO MATCH EQUIPMENT REQUIREMENTS.
 - PROVIDE NEMA L5-30R RECEPTACLE IN RECESSED BOX.

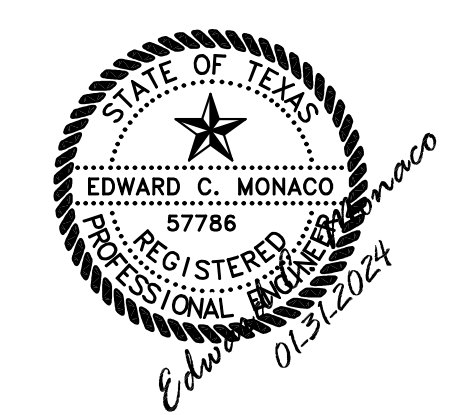
- BRANCH CIRCUIT SCHEDULE:**
- 20.2 2-#12, 1-#12 GROUND IN 1/2" CONDUIT.
30.2 2-#10, 1-#10 GROUND IN 1/2" CONDUIT.



2 ENLARGED BARBERSHOP LAB
Electrical
1/4" = 1'-0"

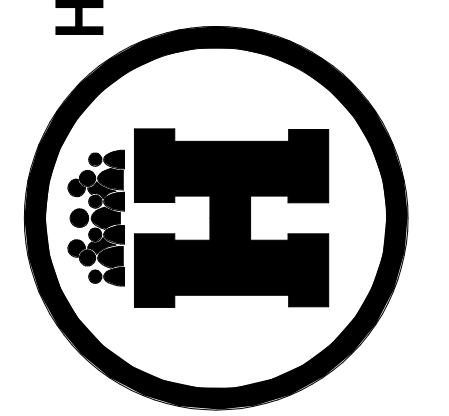


1 ENLARGED CTE OFFICES
Electrical
1/4" = 1'-0"



ARCHITECTURA S.A., INC.
ARCHITECTURE INTERIOR DESIGN PLANNING
17038 REDLAND RD., SUITE 101, SAN ANTONIO, TEXAS 78247
t. 210.384.8200 f. 210.319.3555
architecturass@yahoo.com

**HISD CAREER TECHNOLOGY
EDUCATION (CTE)**
HARLANDALE INDEPENDENT SCHOOL DISTRICT
519 W HARDING BLVD.
SAN ANTONIO, TX 78221



Drawn By: JM
Checked By: ECM
Job Number: 2023.113

ENLARGED ELECTRICAL PLANS

| No. | DATE | DESCRIPTION |
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Date: 04/24/23
Drawing No:

E-2.2

ELECTRICAL CONNECTION SCHEDULE

| MARK | EQUIPMENT SERVED | LOAD | VOLTS/PHASE | BRANCH CIRCUIT | NOTES |
|------|---------------------------|---------|-------------|----------------|-------|
| DEQ1 | WALL MTD.CHARGING STATION | 1260 VA | 120/1 | 20.2 | 1 |
| DEQ3 | DENTAL CHAIR | 5 A | 120/1 | 30.2 | |
| DEQ4 | X-RAY MACHINE | 8 A | 120/1 | 30.2 | |
| DEQ5 | DENTAL VIBRATOR | 120 W | 120/1 | 20.2 | |
| DEQ6 | VACUUM FORMER | 7 A | 120/1 | 20.2 | |
| DEQ7 | DENTAL TRIMMER | 900 W | 120/1 | 20.2 | |
| DEQ8 | ULTRASONIC CLEANER | 900 W | 120/1 | 20.2 | |
| | | | | | |

GENERAL NOTES:

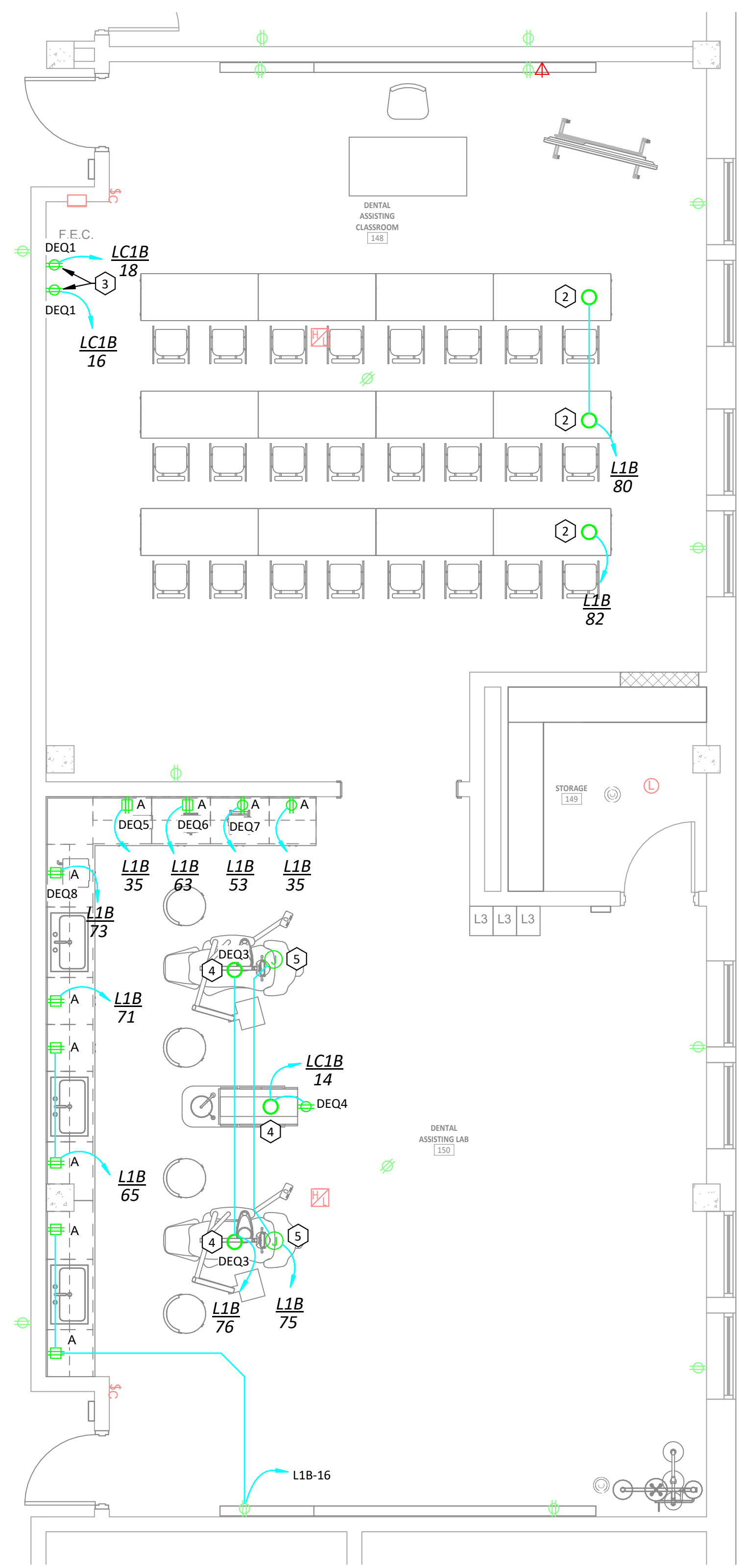
- A. LOAD INDICATED IS NOMINAL. PROVIDE CONDUIT, CONDUCTORS, CIRCUIT BREAKERS, SWITCHES, FUSES, STARTERS, ETC. AS REQUIRED BY ACTUAL EQUIPMENT FURNISHED. COORDINATE WITH OTHER TRADES, AS REQUIRED.
- B. ALL EQUIPMENT ROUGH-INS INDICATED ARE BASED ON DESIGNED EQUIPMENT. VERIFY ALL LOCATIONS AND RECEPTACLE TYPES WITH ACTUAL EQUIPMENT SUPPLIED. VERIFY ALL NAMEPLATE DATA FOR COMPLIANCE.
- C. WHERE REQUIRED, FOR FINAL CONNECTION TO ELECTRICAL SUPPLY, PROVIDE AND INSTALL CORD AND CAP TO ACCOMMODATE EQUIPMENT SERVED.

ELECTRICAL CONNECTION NOTES:

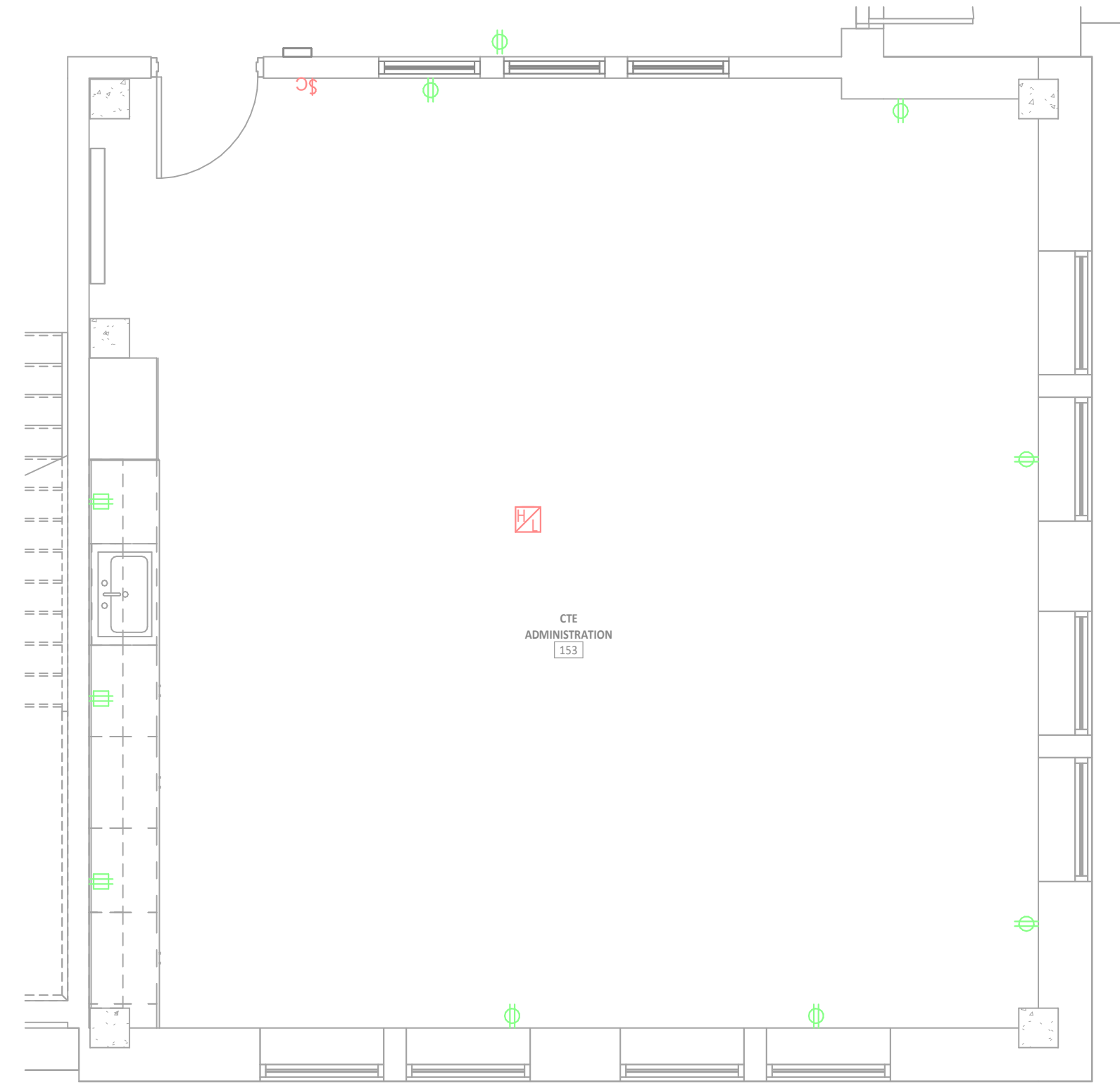
- 1. PROVIDE CORD, PLUG AND RECEPTACLE OF NEMA CONFIGURATION TO MATCH EQUIPMENT REQUIREMENTS.

BRANCH CIRCUIT SCHEDULE:

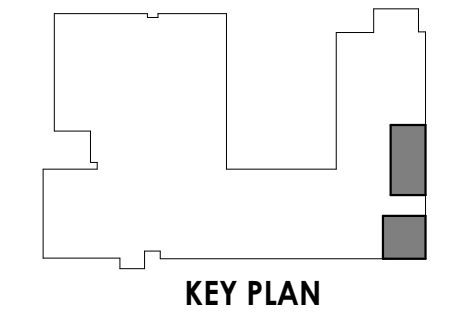
- 20.2 2-#12, 1-#12 GROUND IN 1/2" CONDUIT.
- 30.2 2-#10, 1-#10 GROUND IN 1/2" CONDUIT.



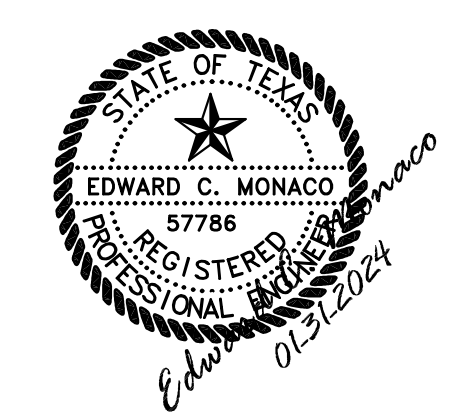
ENLARGED DENTAL ASSISTING LAB
1 Electrical 1/4" = 1'-0"
NORTH



ENLARGED ADMINISTRATION
2 Electrical 1/4" = 1'-0"
NORTH

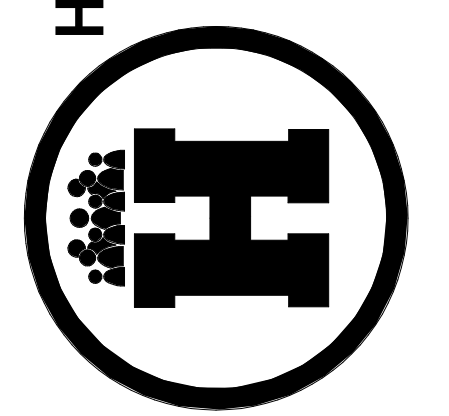


ENGINEERING & SKYE MEP
 COMMISSIONING
 8610 Broadway, Suite 415
 San Antonio, Texas 78217
 State of Texas Firm Registration No. F-19468



ARCHITECTURA S.A., INC.
 ARCHITECTURE INTERIOR DESIGN PLANNING
 17038 REDLAND RD., SUITE 101, SAN ANTONIO, TEXAS 78247
 t. 210.384.8200 f. 210.319.3555
 architecturass@yahoo.com

HISD CAREER TECHNOLOGY EDUCATION (CTE)
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 519 W HARDING BLVD.
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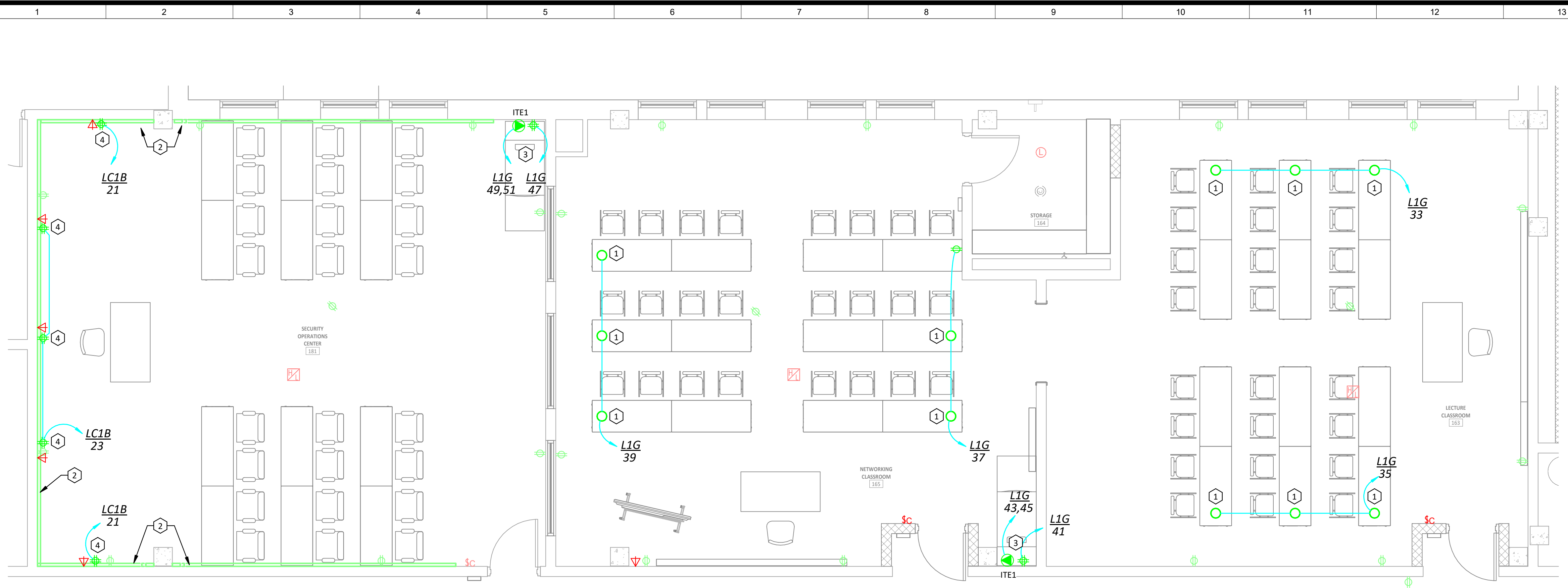
Drawn By: JM
 Checked By: ECM
 Job Number: 2023.113

ENLARGED SOC & NETWORKING LAB

| No. | DATE | DESCRIPTION |
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Date: 04/24/23
 Drawing No:

E-2.3



ELECTRICAL GENERAL NOTES:
 1. REFER TO GENERAL ELECTRICAL NOTES ON SHEET E-0.1.
 2. REFER TO OVERALL FLOOR PLAN, SHEET E-1.0 FOR PANEL LOCATIONS.

ELECTRICAL NEW WORK KEYED NOTES, SHEET E-2.3:
 1. PROVIDE 6" DIAMETER POKE THRU DEVICE FOR POWER, LEGRAND EVOLUTION 6AT, WITH ONE 20A DUPLEX RECEPTACLE CENTER MOUNT. COVER PLATE SHALL BE FLUSH WITH FINISHED FLOOR. COORDINATE FINISH WITH ARCHITECT. ROUTE BRANCH CIRCUIT IN 3/4" CONDUIT BELOW FLOOR TO PANEL.
 2. EXISTING WIREMOLD RACEWAY TO REMAIN.
 3. PROVIDE ONE QUAD NEMA 5-20R, ONE L6-30R RECEPTACLE FOR COMMUNICATION EQUIPMENT RACK. CONNECT TO CIRCUIT INDICATED. MOUNT RECEPTACLES 12" ABOVE LADDER RACK ON THE REAR SIDE OF THE RELAY RACK. COORDINATE EXACT LOCATION WITH OWNER'S REPRESENTATIVE.
 4. PROVIDE FLUSH MOUNTED TV BOX ASSEMBLY HUBBELL NSAV62M OR EQUAL. COORDINATE MOUNTING HEIGHT WITH ARCHITECT.

NORTH

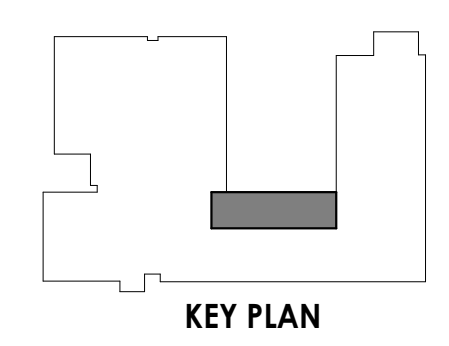
1 ENLARGED SOC & NETWORKING LAB
 Electrical 1/4" = 1'-0"

| ELECTRICAL CONNECTION SCHEDULE | | | | | |
|--------------------------------|-----------------------|------|-------------|----------------|-------|
| MARK | EQUIPMENT SERVED | LOAD | VOLTS/PHASE | BRANCH CIRCUIT | NOTES |
| ITE1 | 42U SMARTRACK CABINET | 5KW | 208/1 | 30.2 | 1, 2 |

GENERAL NOTES:
 A. LOAD INDICATED IS NOMINAL. PROVIDE CONDUIT, CONDUCTORS, CIRCUIT BREAKERS, SWITCHES, FUSES, STARTERS, ETC. AS REQUIRED BY ACTUAL EQUIPMENT FURNISHED. COORDINATE WITH OTHER TRADES, AS REQUIRED.
 B. ALL EQUIPMENT ROUGH-INS INDICATED ARE BASED ON DESIGNED EQUIPMENT. VERIFY ALL LOCATIONS AND RECEPTACLE TYPES WITH ACTUAL EQUIPMENT SUPPLIED. VERIFY ALL NAMEPLATE DATA FOR COMPLIANCE.
 C. WHERE REQUIRED, FOR FINAL CONNECTION TO ELECTRICAL SUPPLY, PROVIDE AND INSTALL CORD AND CAP TO ACCOMMODATE EQUIPMENT SERVED.

ELECTRICAL CONNECTION NOTES:
 1. PROVIDE CORD, PLUG AND RECEPTACLE OF NEMA CONFIGURATION TO MATCH EQUIPMENT REQUIREMENTS.
 2. CONNECT TO CIRCUIT INDICATED THRU PROPERLY SIZED NON-FUSED NEC DISCONNECT, IN SIGHT OF AND NOT MORE THAN 40 FT. FROM EQUIPMENT SERVED. PROVIDE NEMA L5-30R RECEPTACLE.

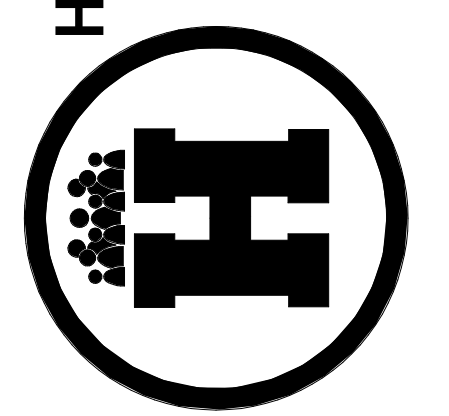
BRANCH CIRCUIT SCHEDULE:
 30.2 2-#10, 1-#10 GROUND IN 1/2" CONDUIT.





ARCHITECTURA S.A., INC.
ARCHITECTURE INTERIOR DESIGN PLANNING
17038 REDLAND RD., SUITE 101, SAN ANTONIO, TEXAS 78247
t. 210.384.8200 f. 210.319.3555
architecturasa@yahoo.com

HISD CAREER TECHNOLOGY EDUCATION (CTE)
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SAN ANTONIO, TX 78221



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Checked By: ECM
Job Number: 2023.113

ENLARGED MEP SHOPS

| No. | DATE | DESCRIPTION |
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Date: 04/24/23

Drawing No:

E-2.4

ELECTRICAL GENERAL NOTES:

- REFER TO GENERAL ELECTRICAL NOTES ON SHEET E-0.1.
- REFER TO OVERALL FLOOR PLAN, SHEET E-1.0 FOR PANEL LOCATIONS.

ELECTRICAL NEW WORK KEYED NOTES, SHEET E-2.4

- PROVIDE RECEPTACLE OUTLET IN CEILING FOR CORD REEL. COORDINATE LOCATION WITH ARCHITECT. PROVIDE J-BOX ABOVE CEILING, SECURE TO STRUCTURE AND FLEXIBLE CONDUIT CONNECTION TO OUTLET. PROVIDE POWER CORD REEL HUBBELL #HBL35123R20M1 OR EQUAL. PROVIDE PIVOT BASE, MOUNTING BRACKET, BALL STOP AND ALL REQUIRED ACCESSORIES REQUIRED. SET CORD LENGTH TO TABLE HEIGHT OR AS DIRECTED BY OWNER'S REPRESENTATIVE.
- PROVIDE 60A, FUSED DISCONNECT SWITCH FUSED AT 50 AMPS AND 50A TWIST-LOCK RECEPTACLE HUBBELL #CS8269 WITH CAST ALUMINUM COVER HUBBELL #HBL7770 FOR WELDER. COORDINATE FINAL WELDER SELECTION AND EXACT LOCATION WITH THE OWNER PRIOR TO ROUGH-IN. REFER TO ELECTRICAL CONNECTION SCHEDULE

ELECTRICAL CONNECTION SCHEDULE

| MARK | EQUIPMENT SERVED | LOAD | VOLTS/PHASE | BRANCH CIRCUIT | NOTES |
|------|-----------------------------|--------|-------------|----------------|-------|
| EQ01 | DRILL PRESS | 7.5 A | 120/1 | 20.2 | 1 |
| EQ02 | STICK WELDER | 50 A | 240/1 | 50.2 | 4 |
| EQ03 | MITER SAW | 15 FLA | 120/1 | 30.2 | 2 |
| EQ04 | BENCH GRINDER | 6.3 A | 120/1 | 20.2 | 1 |
| EQ06 | HEAT PUMP TRAINER | 10 A | 120/1 | 20.2 | 1 |
| EQ07 | BASIC REFRIGERATION TRAINER | 30 A | 208/1 | 30.2 | 3 |
| EQ09 | MINI SPLIT TRAINER | 20 A | 208/1 | 20.2 | 3 |
| EQ11 | AIR & HYDRONIC TRAINER | 30 A | 208/1 | 30.2 | 3 |
| EQ12 | WIRING SERVICE TRAINER | 20 A | 120/1 | 20.2 | 2 |
| EQ13 | RESIDENTIAL TRAINER | 15 A | 120/1 | 20.2 | 2 |
| EQ14 | BASIC CONTROL TRAINER | 20 A | 208/3 | 20.4 | 3 |
| EQ15 | THREADING MACHINE | 1/2 HP | 120/1 | 30.2 | 2 |

GENERAL NOTES:

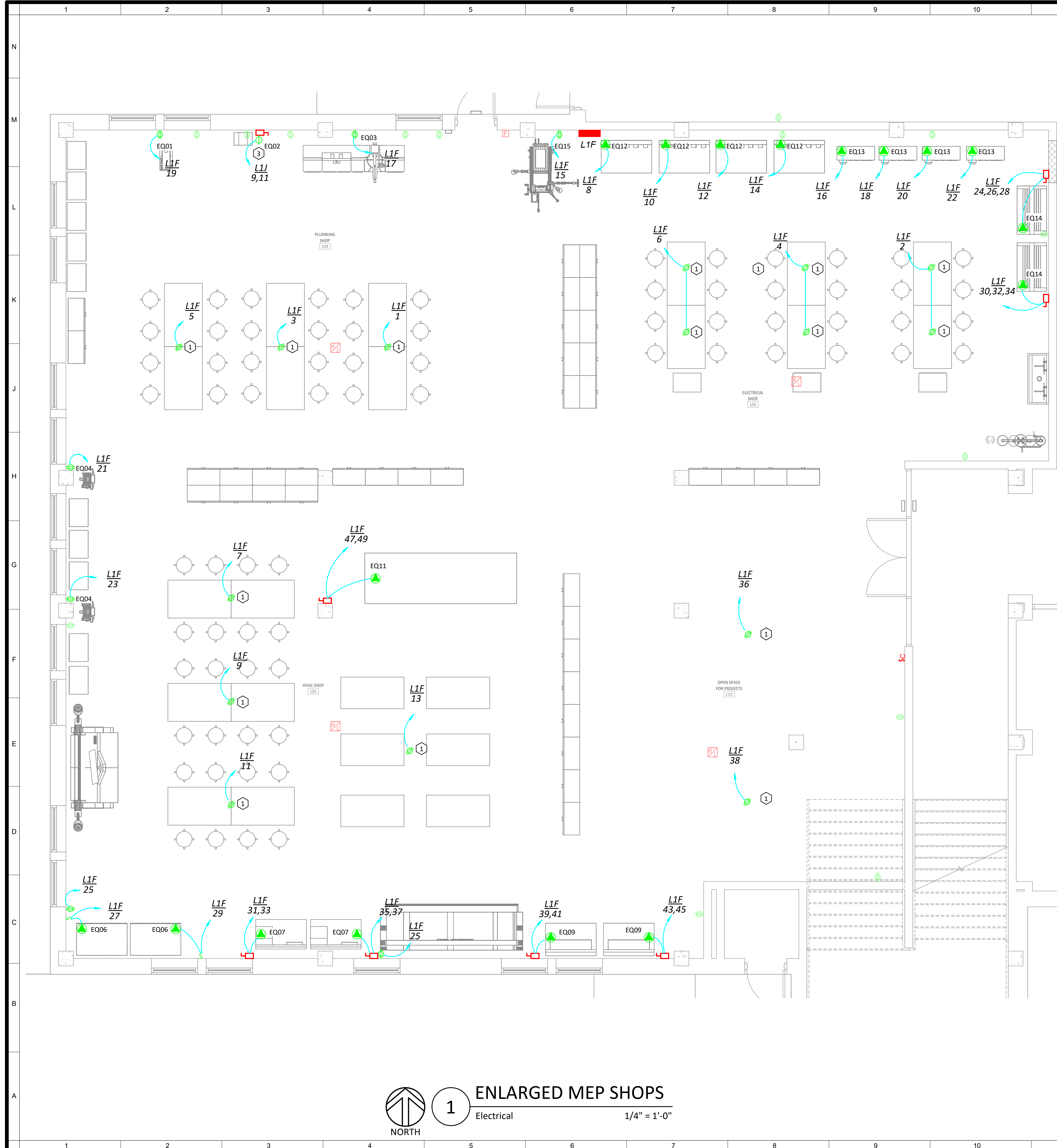
- LOAD INDICATED IS NOMINAL. PROVIDE CONDUIT, CONDUCTORS, CIRCUIT BREAKERS, SWITCHES, FUSES, STARTERS, ETC. AS REQUIRED BY ACTUAL EQUIPMENT FURNISHED. COORDINATE WITH OTHER TRADES, AS REQUIRED.
- ALL EQUIPMENT ROUGH-INS INDICATED ARE BASED ON DESIGNED EQUIPMENT. VERIFY ALL LOCATIONS AND RECEPTACLE TYPES WITH ACTUAL EQUIPMENT SUPPLIED. VERIFY ALL NAMEPLATE DATA FOR COMPLIANCE.
- WHERE REQUIRED, FOR FINAL CONNECTION TO ELECTRICAL SUPPLY, PROVIDE AND INSTALL CORD AND CAP TO ACCOMMODATE EQUIPMENT SERVED.

ELECTRICAL CONNECTION NOTES:

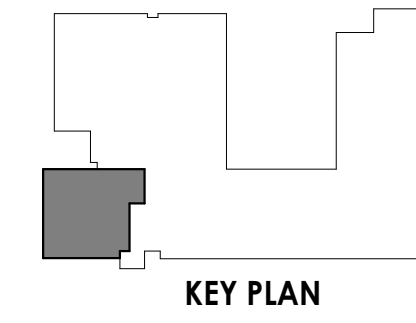
- CONNECT TO CIRCUIT INDICATED THRU PROPERLY SIZED MOTOR RATED TOGGLE DISCONNECT SWITCH, MOUNTED TO WALL OR STRUCTURE, NO MORE THAN 24" FROM EQUIPMENT SERVED.
- CIRCUIT BREAKER IN ADJACENT ELECTRICAL PANEL TO SERVE AS SAFETY DISCONNECTING MEANS.
- CONNECT TO CIRCUIT INDICATED THRU PROPERLY SIZED NON-FUSED NEC DISCONNECT, IN SIGHT OF AND NOT MORE THAN 40 FT. FROM EQUIPMENT SERVED.
- REFER TO KEYED NOTE ON ELECTRICAL PLAN.

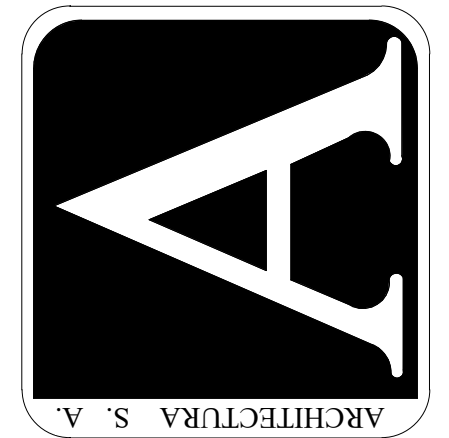
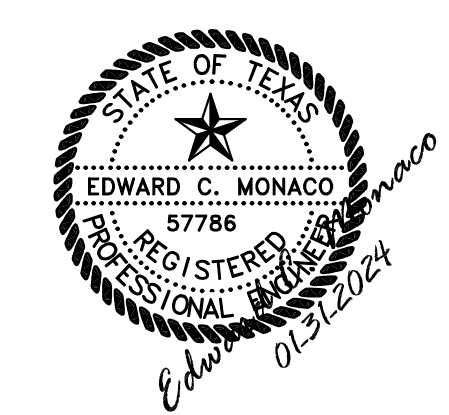
BRANCH CIRCUIT SCHEDULE:

- 20.2 2-#12, 1-#12 GROUND IN 1/2" CONDUIT.
- 20.3 3-#12, 1-#12 GROUND IN 1/2" CONDUIT.
- 20.4 4-#12, 1-#12 GROUND IN 1/2" CONDUIT.
- 30.2 2-#10, 1-#10 GROUND IN 1/2" CONDUIT.
- 50.2 2-#8, 1-#10 GROUND IN 3/4" CONDUIT.



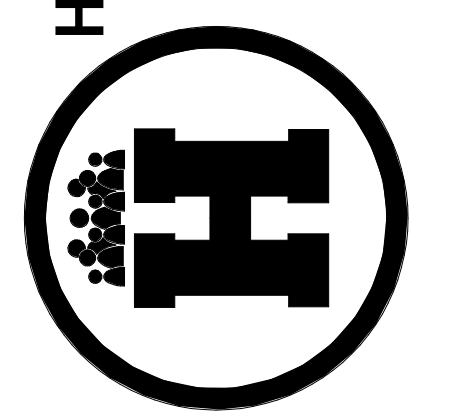
1 ENLARGED MEP SHOPS
Electrical
1/4" = 1'-0"





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t. 210.384.8200 f. 210.319.3555
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Drawn By: JM
Checked By: ECM
Job Number: 2023.113

ENLARGED WELDING LAB

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Date: 04/24/23
Drawing No:

E-2.5

ELECTRICAL GENERAL NOTES:

- REFER TO GENERAL ELECTRICAL NOTES ON SHEET E-0.1.
- REFER TO OVERALL FLOOR PLAN, SHEET E-1.0 FOR PANEL LOCATIONS.

ELECTRICAL NEW WORK KEYED NOTES, SHEET E-2.5

- PROVIDE RECEPTACLE OUTLET IN CEILING FOR CORD REEL. COORDINATE LOCATION WITH ARCHITECT. PROVIDE J-BOX ABOVE CEILING, SECURE TO STRUCTURE AND FLEXIBLE CONDUIT CONNECTION TO OUTLET. PROVIDE POWER CORD REEL HUBBELL #HBL35123R220M1 OR EQUAL. PROVIDE PIVOT BASE, MOUNTING BRACKET, BALL STOP AND ALL REQUIRED ACCESSORIES REQUIRED. SET CORD LENGTH TO TABLE HEIGHT OR AS DIRECTED BY OWNER'S REPRESENTATIVE.
- PROVIDE 60A-FUSED DISCONNECT SWITCH FUSED AT 50 AMPS AND 50A TWIST-LOCK RECEPTACLE HUBBELL #CS8269 WITH CAST ALUMINUM COVER HUBBELL #HBL7770 FOR WELDER. COORDINATE FINAL WELDER SELECTION AND EXACT LOCATION WITH THE OWNER'S REPRESENTATIVE PRIOR TO ROUGH-IN. REFER TO ELECTRICAL CONNECTION SCHEDULE.
- PROVIDE CONNECTION TO MOTORIZED DOOR OPERATOR 480V/3PH. PROVIDE EMPTY CONDUITS WITH PULL CORDS FOR CONTROLS. PROVIDE NEC COMBINATION MOTOR STARTER AND DISCONNECT SWITCH WITH THERMAL OVERLOAD PROTECTION AND ROUGH-IN FOR SAFETY DEVICES. 3 #10,#10GND IN 3/4" TO CIRCUIT INDICATED. PROVIDE ALL OTHER ACCESSORIES REQUIRED FOR COMPLETE INSTALLATION. CONNECT PER MANUFACTURER REQUIREMENTS. ELECTRICAL CONTRACTOR TO PROVIDE LOW VOLTAGE WIRING. FINAL CONNECTIONS OF THE LOW VOLTAGE WIRING TO BE PROVIDED BY THE OVERHEAD DOOR SUBCONTRACTOR. COORDINATE LOCATION WITH OWNER'S REPRESENTATIVE. REFER TO DETAIL 3 SHEET E-4.0.
- PROVIDE OUTLET AND CONNECTION TO AIR COMPRESSOR. COORDINATE EXACT LOCATION WITH THE OWNER'S REPRESENTATIVE PRIOR TO ROUGH-IN. REFER TO ELECTRICAL CONNECTION SCHEDULE.
- PROVIDE RECEPTACLE OUTLET IN CEILING FOR CORD REEL. COORDINATE LOCATION WITH ARCHITECT. PROVIDE J-BOX ABOVE CEILING, SECURE TO STRUCTURE AND FLEXIBLE CONDUIT CONNECTION TO OUTLET. PROVIDE POWER CORD REEL HUBBELL #HBL35103 OR EQUAL. PROVIDE PIVOT BASE, MOUNTING BRACKET, BALL STOP AND ALL REQUIRED ACCESSORIES REQUIRED. SET CORD LENGTH TO TABLE HEIGHT OR AS DIRECTED BY OWNER'S REPRESENTATIVE. PROVIDE TWIST-LOCK RECEPTACLE HUBBELL #CS8264C.
- PROVIDE INDUSTRIAL GRADE LIGHTED TOGGLE SWITCHES. CONNECT ONE TO THE LIGHT PROVIDED WITH THE WELDING BOOTH AND THE OTHER TO THE RECEPTACLE OUTLET. PROVIDE LABEL.
- PROVIDE INDUSTRIAL GRADE LIGHTED TOGGLE SWITCH FOR EACH 120V CORD REEL. PROVIDE LABEL.

ELECTRICAL CONNECTION SCHEDULE

| MARK | EQUIPMENT SERVED | LOAD | VOLTS/PHASE | BRANCH CIRCUIT | NOTES |
|------|-----------------------|--------|-------------|----------------|-------|
| WE2 | MIG WELDER 256 | 60 A | 208/1 | 60.2 | 3 |
| WE4 | ROD OVEN | 1000 W | 120/1 | 30.2 | 1 |
| WE5 | WELDER | 20 A | 120/1 | 30.2 | 3 |
| WE6 | METAL COLD SAW | 10 A | 208/3 | 20.3 | 2 |
| WE7 | DRILL PRESS | 7.5 A | 120/1 | 20.2 | 1 |
| WE8 | BAND SAW | 14 A | 120/1 | 30.2 | 1 |
| WE9 | GRINDER | 1/2 HP | 120/1 | 20.2 | 1 |
| WE10 | 40T IRONWORKER | 17 FLA | 120/1 | 30.2 | 1 |
| WE11 | WELDER MULTIMATIC 235 | 31 A | 240/1 | 50.2 | 3 |

GENERAL NOTES:

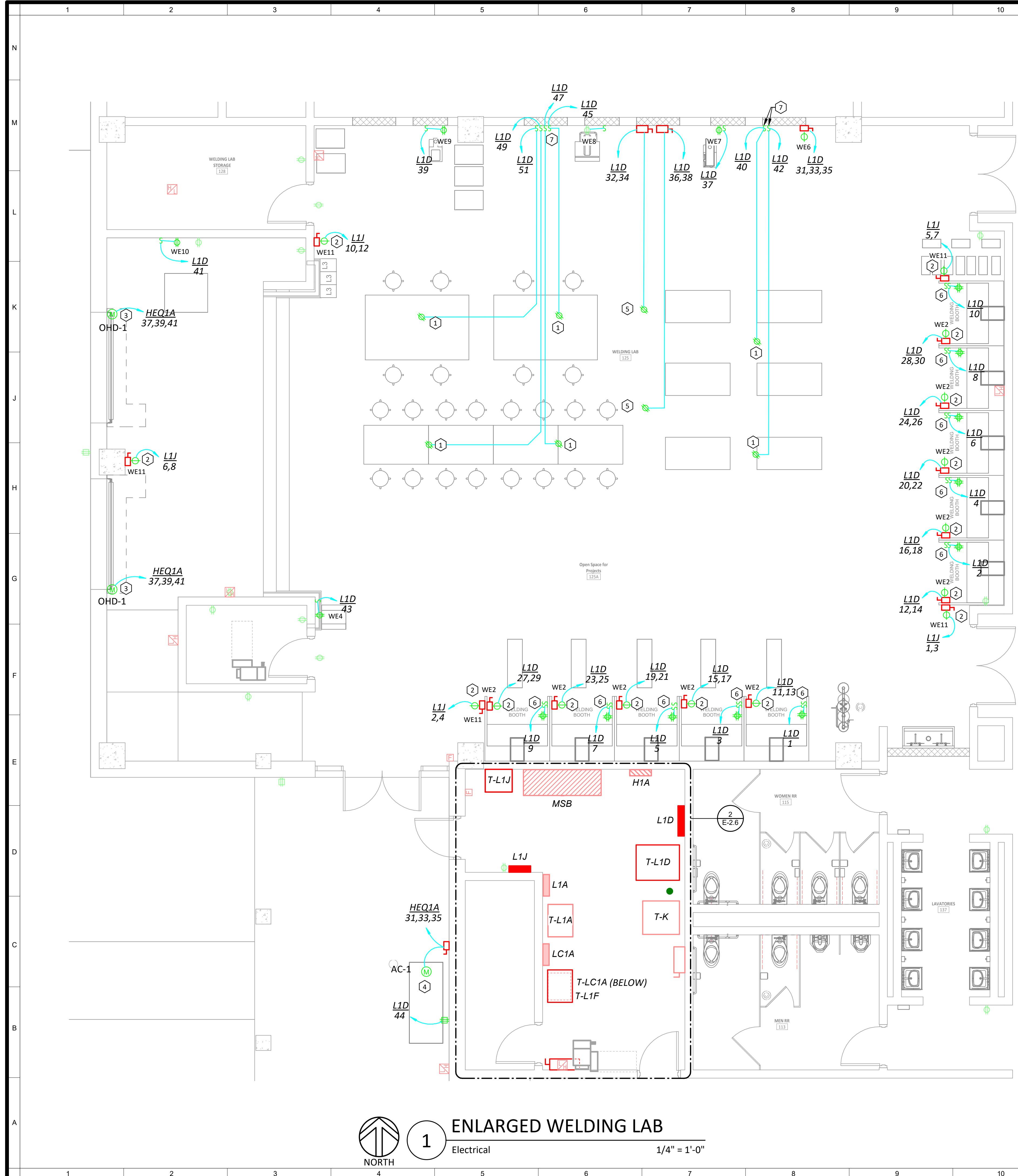
- LOAD INDICATED IS NOMINAL. PROVIDE CONDUIT, CONDUCTORS, CIRCUIT BREAKERS, SWITCHES, FUSES, STARTERS, ETC. AS REQUIRED BY ACTUAL EQUIPMENT FURNISHED. COORDINATE WITH OTHER TRADES, AS REQUIRED.
- ALL EQUIPMENT ROUGH-INS INDICATED ARE BASED ON DESIGNED EQUIPMENT. VERIFY ALL LOCATIONS AND RECEPTACLE TYPES WITH ACTUAL EQUIPMENT SUPPLIED. VERIFY ALL NAMEPLATE DATA FOR COMPLIANCE.
- WHERE REQUIRED, FOR FINAL CONNECTION TO ELECTRICAL SUPPLY, PROVIDE AND INSTALL CORD AND CAP TO ACCOMMODATE EQUIPMENT SERVED.

ELECTRICAL CONNECTION NOTES:

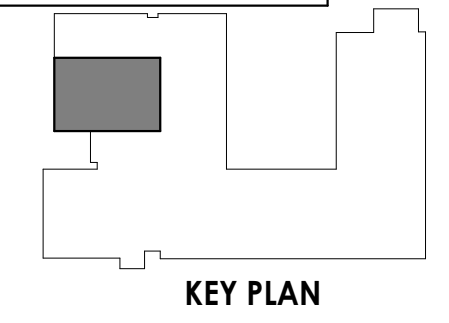
- CONNECT TO CIRCUIT INDICATED THRU PROPERLY SIZED MOTOR RATED TOGGLE DISCONNECT SWITCH, MOUNTED TO WALL OR STRUCTURE, NO MORE THAN 24" FROM EQUIPMENT SERVED.
- CONNECT TO CIRCUIT INDICATED THRU PROPERLY SIZED NON-FUSED NEC DISCONNECT, IN SIGHT OF AND NOT MORE THAN 40 FT. FROM EQUIPMENT SERVED.
- REFER TO KEYED NOTE ON ELECTRICAL PLAN.

BRANCH CIRCUIT SCHEDULE:

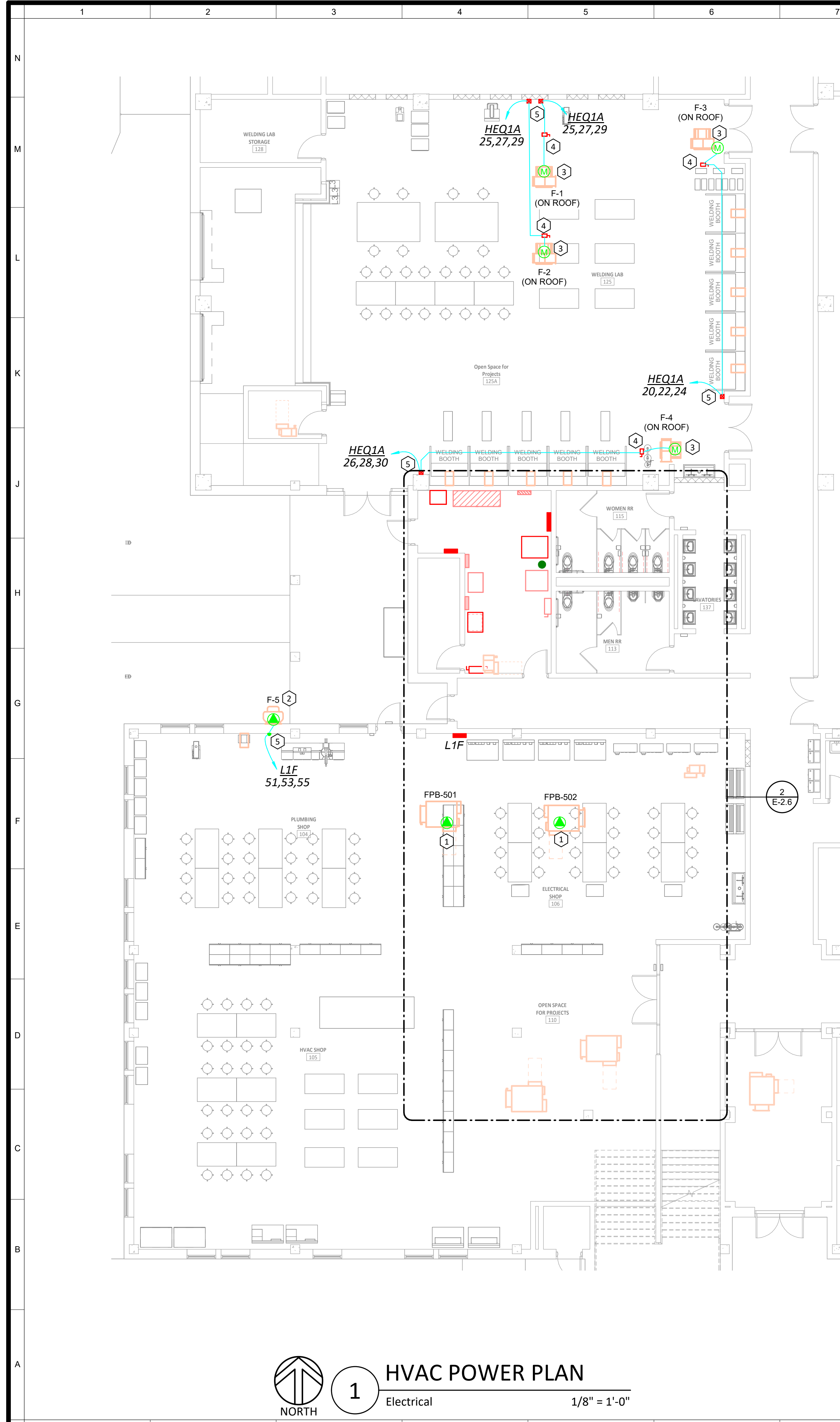
- 20.2 2-#12, 1-#12 GROUND IN 1/2" CONDUIT.
- 20.3 3-#12, 1-#12 GROUND IN 1/2" CONDUIT.
- 20.4 4-#12, 1-#12 GROUND IN 1/2" CONDUIT.
- 30.2 2-#10, 1-#10 GROUND IN 1/2" CONDUIT.
- 50.2 2-#8, 1-#10 GROUND IN 3/4" CONDUIT.
- 60.2 2-#6, 1-#10 GROUND IN 3/4" CONDUIT



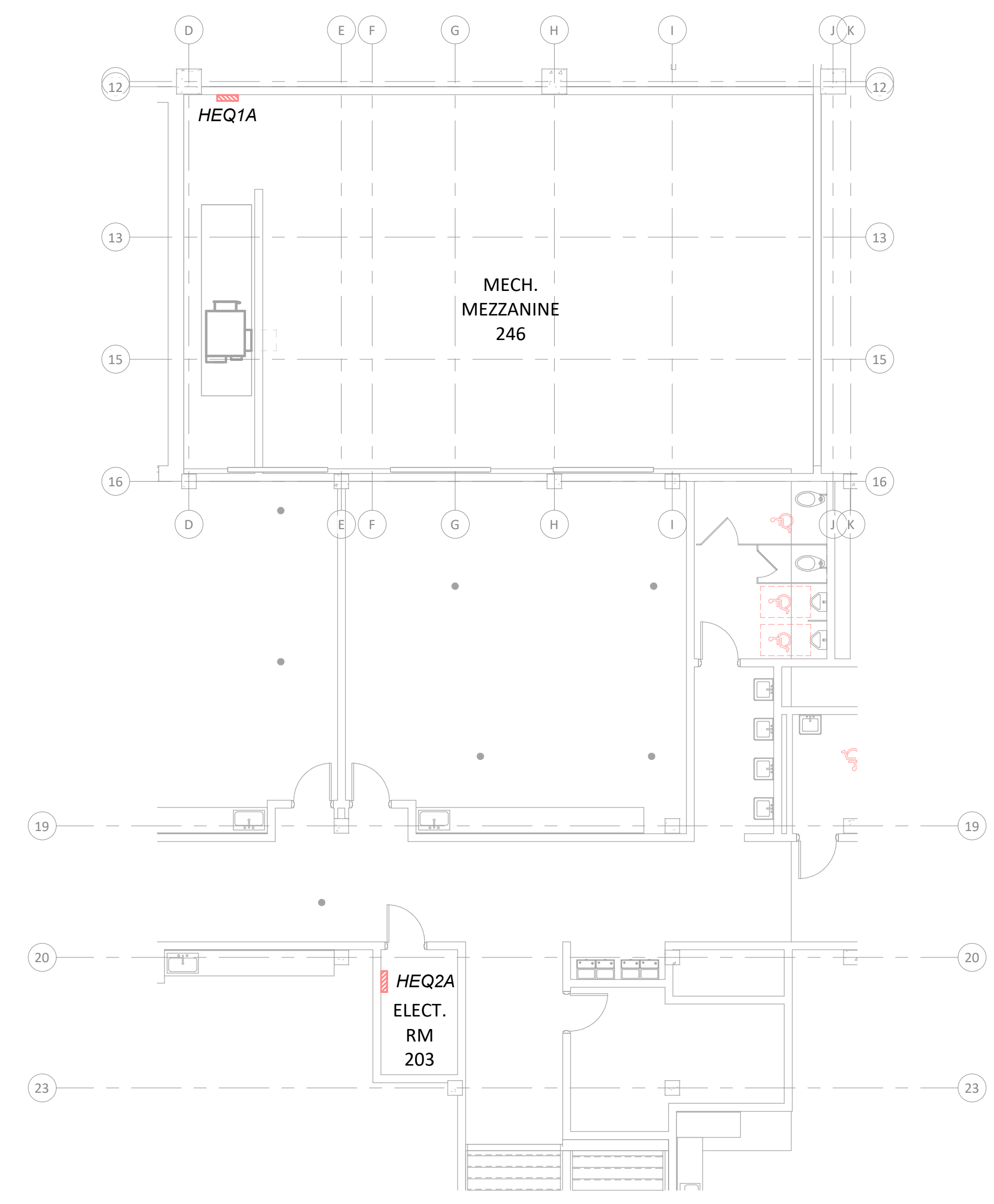
1 ENLARGED WELDING LAB
Electrical
1/4" = 1'-0"



1/31/2024 11:55:44 AM



1 HVAC POWER PLAN
Electrical 1/8" = 1'-0"



2 PARTIAL SECOND FLOOR - ELECTRICAL
Electrical 1/8" = 1'-0"

ENGINEERING & SKYE MEP
COMMISSIONING
8610 Broadway, Suite 415
San Antonio, Texas 78217
State of Texas Firm Registration No. F-19468

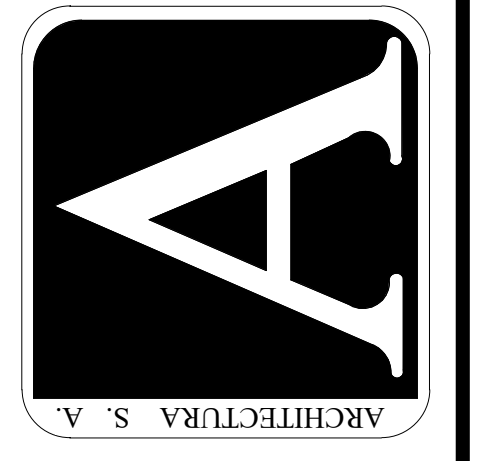


ELECTRICAL GENERAL NOTES:

- REFER TO GENERAL ELECTRICAL NOTES ON SHEET E-0.1.
- REFER TO ELECTRICAL CONNECTION SCHEDULE ON SHEET E-3.1

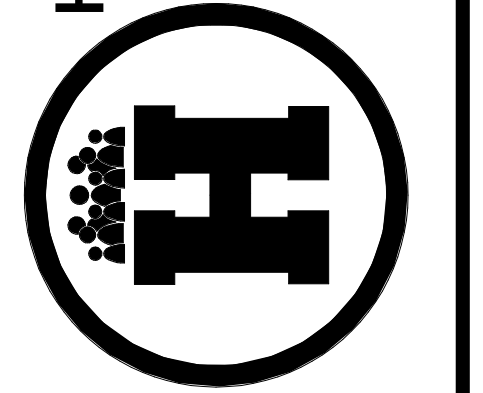
ELECTRICAL NEW WORK KEYED NOTES, SHEET E-2.6

- NEW LOCATION OF EXISTING FAN POWERED BOX ABOVE THE CEILING. EXTEND BRANCH CIRCUIT AS REQUIRED. SEE MECHANICAL PLANS FOR ACTUAL LOCATION OF FAN COIL UNIT. COORDINATE LOCATION OF DISCONNECT WITH DIVISION 23 FOR EASE OF ACCESS AND MAINTENANCE. REFER TO ELECTRICAL CONNECTION SCHEDULE ON SHEET E-3.1
- PROVIDE OUTLET AND CONNECTION AS REQUIRED FOR WALL MOUNTED FAN. SEE MECHANICAL PLANS FOR ACTUAL LOCATION OF UNIT. REFER TO ELECTRICAL CONNECTION SCHEDULE ON SHEET E-3.1
- PROVIDE OUTLET AND CONNECTION AS REQUIRED FOR ROOFTOP FAN. SEE MECHANICAL PLANS FOR ACTUAL LOCATION OF UNIT. COORDINATE LOCATION OF DISCONNECT WITH DIVISION 23 FOR EASE OF ACCESS AND MAINTENANCE. REFER TO ELECTRICAL CONNECTION SCHEDULE ON SHEET E-3.1.
- PROVIDE DISCONNECT SWITCH, NON-FUSED, NEMA 3R. LOCATE ON THE ROOF. MOUNT TO FREESTANDING SUPPORT RACK. REFER TO ROOFING DETAILS.
- PROVIDE A TWO BUTTON START/STOP PUSH BUTTON MANUAL NEMA 1 STARTER WITH INDICATOR FOR LOCAL CONTROL. PROVIDE ENGRAVED LABEL "WELDING EXHAUST FAN"



ARCHITECTURA S.A., INC.
ARCHITECTURE INTERIOR DESIGN PLANNING
17038 REDLAND RD., SUITE 101, SAN ANTONIO, TEXAS 78247
t. 210.384.8200 f. 210.319.3555
architecturass@yahoo.com

HISD CAREER TECHNOLOGY EDUCATION (CTE)
HARLANDALE INDEPENDENT SCHOOL DISTRICT
519 W HARDING BLVD.
SAN ANTONIO, TX 78221



Drawn By: JM
Checked By: ECM
Job Number: 2023.113

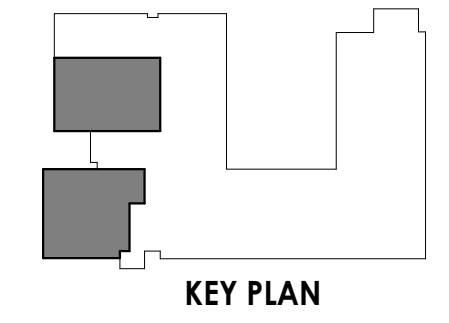
HVAC POWER PLAN

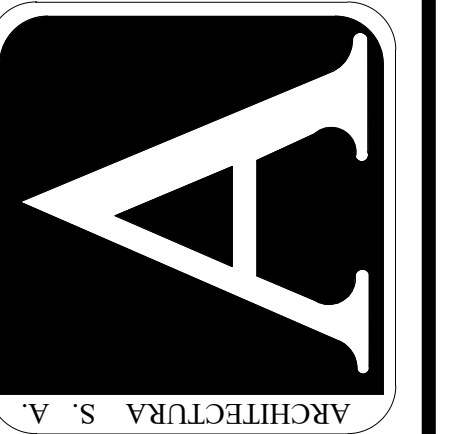
| No. | DATE | DESCRIPTION |
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Date: 04/24/23

Drawing No:

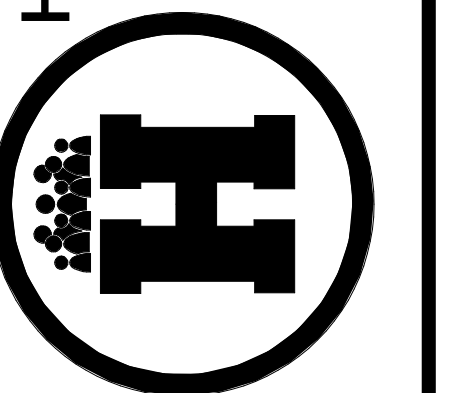
E-2.6





ARCHITECTURA S.A., INC.
 ARCHITECTURE INTERIOR DESIGN PLANNING
 17038 REDLAND RD., SUITE 101, SAN ANTONIO, TEXAS 78247
 t. 210.384.8200 f. 210.319.3555
 architecturass@yahoo.com

HISD CAREER TECHNOLOGY EDUCATION (CTE)
 HARLANDALE INDEPENDENT SCHOOL DISTRICT
 519 W HARDING BLVD.
 SAN ANTONIO, TX 78221



Drawn By: JM
 Checked By: ECM
 Job Number: 2023.113

ELECTRICAL DISTRIBUTION DIAGRAM

| No. | DATE | DESCRIPTION |
|-----|------|-------------|
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Date: 04/24/23
 Drawing No:

E-3.0

| MARK | KVA | PRIMARY | SECONDARY | NOTES |
|-------|---------|------------|--------------|-----------------|
| T-L1D | 225 KVA | 480V DELTA | 120/208V WYE | 115° TEMP. RISE |
| T-L1F | 75 KVA | 480V DELTA | 120/208V WYE | 115° TEMP. RISE |
| T-L1G | 75 KVA | 480V DELTA | 120/208V WYE | 115° TEMP. RISE |
| T-L1J | 75 KVA | 480V 1PH | 120/240V 1PH | 115° TEMP. RISE |

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals |
|------------------------|----------------|---------------|------------------|-------------------------------------|
| Existing Load | 564249 VA | 125.00% | 705311 VA | |
| Electric Clothes Dryer | 5000 VA | 100.00% | 5000 VA | Total Conn. Load: 938287 VA |
| Equipment | 73388 VA | 100.00% | 73388 VA | Total Est. Demand: 994507 VA |
| Motor | 38638 VA | 107.53% | 41547 VA | Total Conn.: 1129 A |
| Receptacle | 19460 VA | 75.69% | 14730 VA | Total Est. Demand: 1196 A |
| Water Heater | 30000 VA | 100.00% | 30000 VA | |
| Welder | 207552 VA | 60.00% | 124531 VA | |

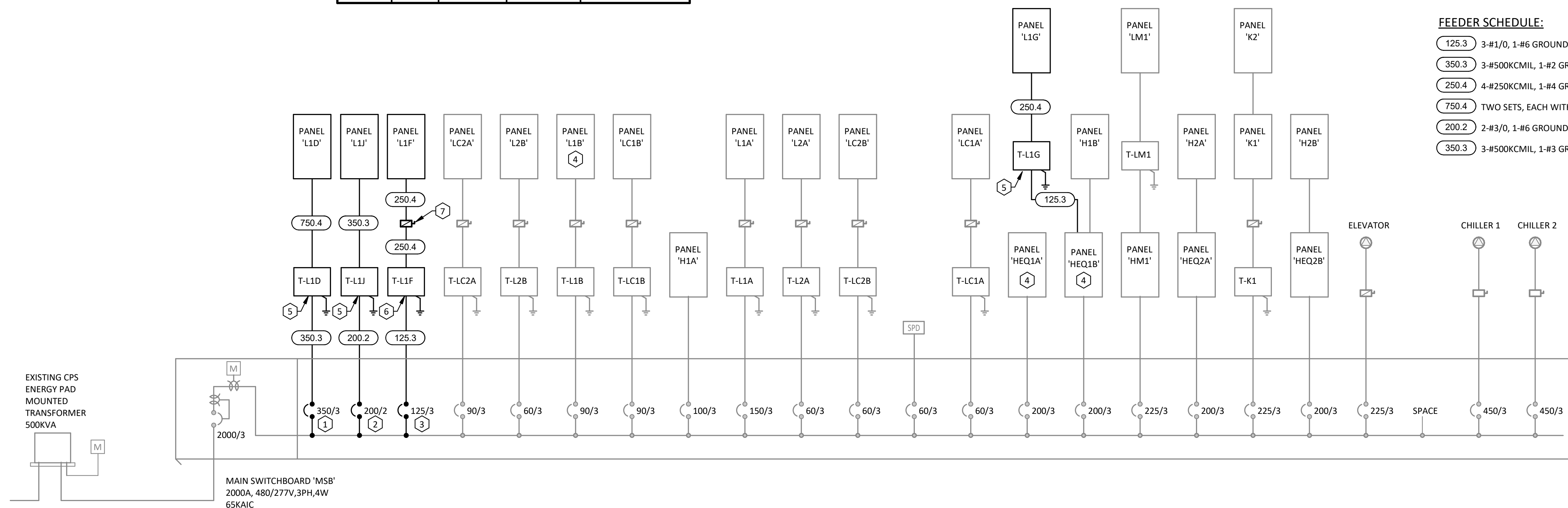
- NOTE:
- EXISTING LOAD IS THE HIGHEST PEAK DEMAND (06/23) RECORDED BY CPS ENERGY.
 - CONTRACTOR TO NOTIFY CPS OF THE INCREASE IN LOAD AND BE PREPARED TO SUBMIT AN APPLICATION TO CHANGE OUT THE TRANSFORMER.

ELECTRICAL NOTES, SHEET E-3.0:

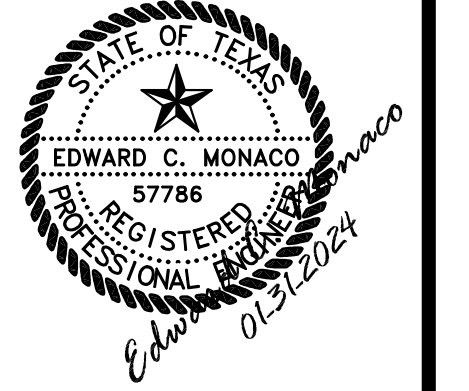
- PROVIDE NEW EATON BREAKER HKD3350 WITH NEW COVER PLATE AND CONNECTOR KIT. PROVIDE ENGRAVED LABEL.
- PROVIDE NEW EATON BREAKER #HFD2200. PROVIDE ENGRAVED LABEL.
- PROVIDE NEW EATON BREAKER #HFD3125. PROVIDE ENGRAVED LABEL.
- PROVIDE NEW BREAKERS. REFER TO PANELBOARD SCHEDULE. PROVIDE NEW PANELBOARD DIRECTORY.
- PROVIDE HOUSEKEEPING PAD WITH 1/2" CHAMFERED EDGES.
- LOCATE TRANSFORMER ABOVE EXISTING TRANSFORMER. PROVIDE SUPPORT AS INDICATED ON DETAIL 4, SHEET E-4.0.
- PROVIDE 400A FUSED DISCONNECT SWITCH, NEMA 1. PROVIDE WITH 250A FUSES.

FEEDER SCHEDULE:

- 125.3 3-#1/0, 1-#6 GROUND IN 2" CONDUIT.
- 350.3 3-#500KCMIL, 1-#2 GROUND IN 3" CONDUIT.
- 250.4 4-#250KCMIL, 1-#4 GROUND IN 3" CONDUIT.
- 750.4 TWO SETS, EACH WITH 4-#500KCMIL, 1-#1/0 IN GROUND 4" CONDUIT.
- 200.2 2-#3/0, 1-#6 GROUND IN 2" CONDUIT.
- 350.3 3-#500KCMIL, 1-#3 GROUND IN 3" CONDUIT.

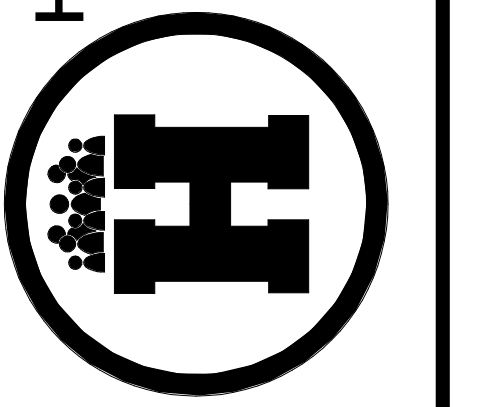


1 ELECTRICAL DISTRIBUTION DIAGRAM
 Electrical NO SCALE



ARCHITECTURA S.A., INC.
ARCHITECTURE INTERIOR DESIGN PLANNING
17038 REDLAND RD., SUITE 101, SAN ANTONIO, TEXAS 78247
t. 210.384.8200 f. 210.319.3555
architecturass@yahoo.com

**HISD CAREER TECHNOLOGY
EDUCATION (CTE)**
HARLANDALE INDEPENDENT SCHOOL DISTRICT
519 W HARDING BLVD.
SAN ANTONIO, TX 78221



Drawn By: JM
Checked By: ECM
Job Number: 2023.113

ELECTRICAL SCHEDULES

| No. | DATE | DESCRIPTION |
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Date: 04/24/23

Drawing No:

E-3.1

ELECTRICAL CONNECTION SCHEDULE

| MARK | EQUIPMENT SERVED | LOAD | VOLTS/PHASE | BRANCH CIRCUIT | NOTES |
|-------|-----------------------|--------|-------------|----------------|-------|
| FP3XX | FAN POWERED BOX | 1/3 HP | 277/1 | 20.2 | 2 |
| F-1 | EXHAUST FAN | 3 HP | 480/3 | 20.3 | 8 |
| F-2 | EXHAUST FAN | 3 HP | 480/3 | 20.3 | 8 |
| F-3 | EXHAUST FAN | 5 HP | 480/3 | 20.3 | 8 |
| F-4 | EXHAUST FAN | 5 HP | 480/3 | 20.3 | 8 |
| F-5 | EXHAUST FAN | 1 HP | 208/1 | 20.2 | 8 |
| F-6 | EXHAUST FAN | 1/2 HP | 120/1 | 20.2 | 3 |
| OHD-1 | OVERHEAD DOOR | 2 HP | 480/3 | 20.3 | 7 |
| AC-1 | AIR COMPRESSOR | 10 HP | 480/3 | 30.3 | 6 |
| AD-1 | AIR COMPRESSOR DRYER | 20 A | 120/1 | 20.2 | 3 |
| EW-1 | ELECTRIC WATER HEATER | 30 KW | 480/3 | 50.3 | 2 |

GENERAL NOTES:

- LOAD INDICATED IS NOMINAL. PROVIDE CONDUIT, CONDUCTORS, CIRCUIT BREAKERS, SWITCHES, FUSES, STARTERS, ETC. AS REQUIRED BY ACTUAL EQUIPMENT FURNISHED. COORDINATE WITH OTHER TRADES, AS REQUIRED.

ELECTRICAL CONNECTION NOTES:

- CONNECT TO CIRCUIT INDICATED THRU PROPERLY SIZED FUSED NEC DISCONNECT, IN SIGHT OF AND NOT MORE THAN 40 FT. FROM EQUIPMENT SERVED. DISCONNECT ENCLOSURE SHALL BE SUITABLE FOR THE ENVIRONMENT. (NEMA 3R FOR ROOF)
- CONNECT TO CIRCUIT INDICATED THRU PROPERLY SIZED NON-FUSED NEC DISCONNECT, MOUNTED TO WALL OR STRUCTURE, NO MORE THAN 24" FROM EQUIPMENT SERVED. DISCONNECT ENCLOSURE SHALL BE SUITABLE FOR THE ENVIRONMENT. (NEMA 3R FOR ROOF)
- CONNECT TO CIRCUIT INDICATED THRU PROPERLY SIZED MOTOR RATED TOGGLE DISCONNECT SWITCH, MOUNTED TO WALL OR STRUCTURE, NO MORE THAN 24" FROM EQUIPMENT SERVED. DISCONNECT ENCLOSURE SHALL BE SUITABLE FOR THE ENVIRONMENT.
- CONNECT TO CIRCUIT INDICATED ON PLAN THRU FACTORY DISCONNECT MEANS PROVIDED WITH FAN.
- REFER TO ROOFING DETAILS FOR ROOF PENETRATIONS AND DISCONNECT MOUNTING METHOD.
- CONNECT TO CIRCUIT INDICATED THRU PROPERLY SIZED NON-FUSED NEC COMBINATION MOTOR STARTER AND DISCONNECT SWITCH, IN SIGHT OF AND NOT MORE THAN 40FT FROM EQUIPMENT SERVED. DISCONNECT ENCLOSURE SHALL BE SUITABLE FOR THE ENVIRONMENT. (NEMA 3R FOR ROOF)
- REFER TO KEYED NOTE ON ELECTRICAL PLAN.
- CONNECT TO CIRCUIT INDICATED THRU PROPERLY SIZED NON-FUSED NEC DISCONNECT NEMA 3R, MOUNTED ON THE ROOF, AND THRU PROPERLY SIZED MOTOR STARTER AND SWITCH WITH INDICATOR FOR LOCAL CONTROL.

BRANCH CIRCUIT SCHEDULE:

- 20.2 2-#12, 1-#12 GROUND IN 1/2" CONDUIT.
- 20.3 2-#12, 1-#12 GROUND IN 1/2" CONDUIT.
- 30.2 2-#10, 1-#10 GROUND IN 1/2" CONDUIT.
- 30.3 3-#10, 1-#10 GROUND IN 3/4" CONDUIT.
- 50.3 3-#8, 1-#10 GROUND IN 3/4" CONDUIT.

LIGHTING FIXTURE SCHEDULE

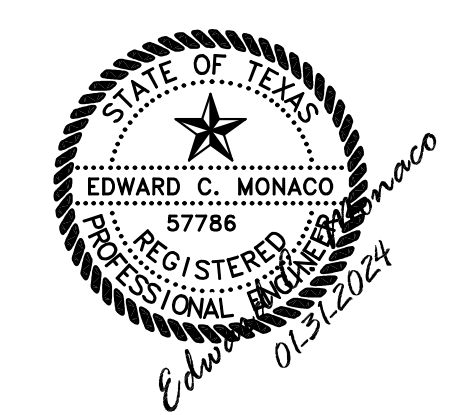
| TYPE MARK | MANUFACTURER | MODEL NO. | DESCRIPTION | MOUNTING | VOLTAGE | WATTAGE | Notes |
|-----------|---------------------|--|--------------------------------|----------|---------|---------|-------|
| A1 | LITHONIA | 2BLT4 85L SDSM EZ1 LP835 | 2X4 LED TROFFER | RECESSED | 277 V | 67 VA | 1 |
| A1E | LITHONIA | 2BLT4 85L SDSM EZ1 LP835 EL14L | 2X4 LED TROFFER W/BATTERY PACK | RECESSED | 277 V | 67 VA | 1,6 |
| A2 | LITHONIA | 2BLT4 40L SDSM EZ1 LP835 | 2X4 LED TROFFER | RECESSED | 277 V | 34 VA | 1 |
| C | LITHONIA | ZL1D L24 3500LM FST MVOLT 35K 80CRI WH | 24" STRIPLIGHT | PENDANT | 277 V | 17 VA | 3 |
| D | LITHONIA | CLX L96 14000LM SEF FDL MVOLT 35K 80CR | 8FT STRIPLIGHT | PENDANT | 277 V | 93 VA | 3 |
| DE | LITHONIA | CLX L96 14000LM SEF FDL MVOLT 35K 80CRI E10WLCP | 8FT STRIPLIGHT W/BATTERY PACK | PENDANT | 277 V | 93 VA | 3,6 |
| F | LITHONIA | CLX L48 5000LM SEF FDL MVOLT 35K 80CRI | 4FT STRIPLIGHT | PENDANT | 277 V | 32 VA | 3 |
| F12 | FINELITE | HP4-ID-TG-F-12-H-H-835-96-277--SC-FA200-FE-SW-C1 | 12FT DIRECT/INDIRECT LINEAR | PENDANT | 277 V | 168 VA | 3 |
| F12S | FINELITE | HP4-SM-D-12-B-835-F-96LG-277-SC-FC-10-C4-FE-SW | 12FT DIRECT LINEAR | SURFACE | 277 V | 56 VA | 3 |
| G | LITHONIA | FMVCCLS-24IN-MVOLT-90CRI-X | LED VANITY | SURFACE | 277 V | 27 VA | 4 |
| SC | VISIONAIRE LIGHTING | PGA-1-T5-32LC-5-4K-UNV-CM-SL | CANOPY LIGHT | SURFACE | 277 V | 80 VA | 5 |
| W | LITHONIA | WST LED P3 40K VW MVOLT PIRH DNAXD | WALL PACK | SURFACE | 277 V | 50 VA | 5 |

LIGHTING FIXTURE SCHEDULE GENERAL NOTES:

- REFER TO ARCHITECTURAL ELEVATIONS FOR FIXTURE LOCATIONS.

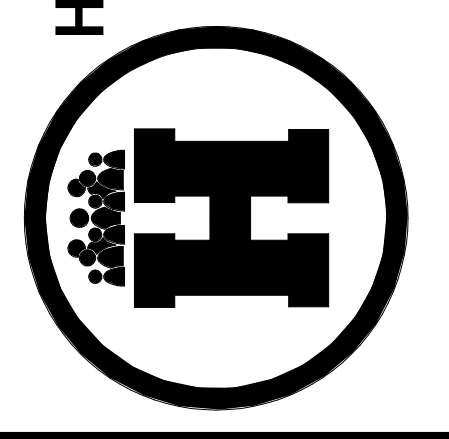
LIGHTING FIXTURE SCHEDULE NOTES:

- RECESSED LIGHT FIXTURES SHALL BE SUITABLE FOR INSTALLATION IN THE CEILING OR SOFFIT SYSTEM BEING PROVIDED. RECESSED LIGHT FIXTURES SHALL BE PROVIDED WITH APPROVED HANGING DEVICES, TRIM, PLASTER FRAMES, ETC. AS REQUIRED FOR PROPER INSTALLATION IN THE CEILING SYSTEM BEING PROVIDED, REGARDLESS OF CATALOG NUMBER INDICATED. FIXTURES RECESSED IN HARD CEILINGS SHALL BE PROVIDED WITH A LAY-IN FIXTURE FRAME FOR INSTALLATION OF FIXTURE IN LIEU OF PROVIDING FIXTURE WITH OVERLAP FLANGE TRIM.
- COMPLETE WITH FACES AND ARROWS AS INDICATED AND AS REQUIRED BY THE LOCATION OF THE FIXTURE. PROVIDE WALL MOUNTED UNITS WHENEVER POSSIBLE. CONNECT TO UNSWITCHED PORTION OF CIRCUIT SERVING LIGHTING IN SAME AREA OR CORRIDOR. VERIFY CIRCUIT.
- CONTRACTOR SHALL PROVIDE ALL NECESSARY MOUNTING ACCESSORIES FOR MOUNTING FIXTURE.
- EXACT LOCATION AND MOUNTING HEIGHT SHALL BE AS DIRECTED BY THE ARCHITECT. VERIFY PRIOR TO ANY ROUGH-IN. REFER TO ARCHITECTURAL ELEVATIONS.
- CONTRACTOR SHALL PROVIDE ALL NECESSARY MOUNTING ACCESSORIES FOR SURFACE MOUNTING ON EXTERIOR WALLS AND CANOPIES. PROVIDE WEATHERTIGHT INSTALLATION BETWEEN JUNCTION BOX AND LIGHT FIXTURE.
- PROVIDE AN EXTRA UN-SWITCHED PHASE CONDUCTOR FROM LIGHTING CIRCUIT . BRING HOT LEG FROM AT POINT UPSTREAM OF LIGHTING CONTROL.



ARCHITECTURA S.A., INC. ARCHITECTURE INTERIOR DESIGN PLANNING 17038 REDLAND RD., SUITE 101, SAN ANTONIO, TEXAS 78247

HISD CAREER TECHNOLOGY EDUCATION (CTE) HARLANDALE INDEPENDENT SCHOOL DISTRICT 519 W HARDING BLVD. SAN ANTONIO, TX 78221



Drawn By: JM Checked By: ECM Job Number: 2023.113

ELECTRICAL SCHEDULES

Table with columns: No., DATE, DESCRIPTION

Date: 01/31/2024 Drawing No:

Panelboard: HEQ1A (EXISTING - EATON)

Location: MECH.MEZZANINE 246 Supply From: MSB Mounting: SURFACE Enclosure: Type 1

Volts: 480/277 Wye Phases: 3 Wires: 4

A.I.C. Rating: 42,000 Mains Type: MLO Mains Rating: 100 A MCB Rating:

Table with columns: CKT, Circuit Description, Trip, Poles, A, B, C, Poles, Trip, Circuit Description, CKT

Table with columns: Load Classification, Connected Load, Demand Factor, Estimated Demand, Panel Totals

NOTE: EXISTING LOAD FOR THIS PANEL IS NOT SHOWN ON THE SCHEDULE. ITS REFLECTED IN THE EXISTING LOAD SHOWN ON THE LOAD ANALYSIS.

Panelboard: L1J

Location: ELECTRICAL ROOM 112 Supply From: T-L1J Mounting: Recessed Enclosure: Type 1

Volts: 120/240 Single Phases: 1 Wires: 3

A.I.C. Rating: 10,000 Mains Type: MCB Mains Rating: 400 A MCB Rating: 350 A

Table with columns: CKT, Circuit Description, Trip, Poles, A, B, Poles, Trip, Circuit Description, CKT

Table with columns: Load Classification, Connected Load, Demand Factor, Estimated Demand, Panel Totals

ELECTRICAL NOTES, SHEET E-3.2:

- 1 PROVIDE NEW CIRCUIT BREAKER IN EXISTING SPACE. MATCH SHORT CIRCUIT CURRENT RATING OF EXISTING EQUIPMENT. PROVIDE NEW TYPED PANEBOARD DIRECTORY.
2 PROVIDE CIRCUIT BREAKER WITH TIME-CURRENT CURVES COMPARABLES TO RKS FUSES.
3 PROVIDE GFCI TYPE CIRCUIT BREAKER.

Panelboard: L1D

Location: ELECTRICAL ROOM 112 Supply From: T-L1D Mounting: SURFACE Enclosure: Type 1

Volts: 120/208 Wye Phases: 3 Wires: 4

A.I.C. Rating: 22,000 Mains Type: MCB Mains Rating: 800 A MCB Rating: 750 A

Table with columns: CKT, Circuit Description, Trip, Poles, A, B, C, Poles, Trip, Circuit Description, CKT

Table with columns: Load Classification, Connected Load, Demand Factor, Estimated Demand, Panel Totals

Panelboard: L1F

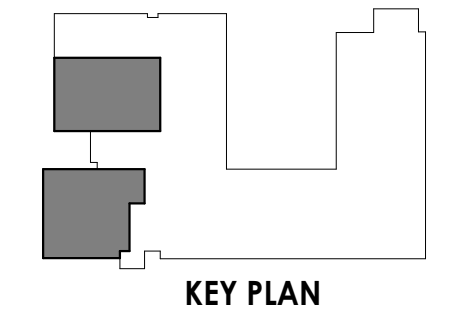
Location: ELECTRICAL SHOP 106 Supply From: T-L1F Mounting: Floor Enclosure: Type 1

Volts: 120/208 Wye Phases: 3 Wires: 4

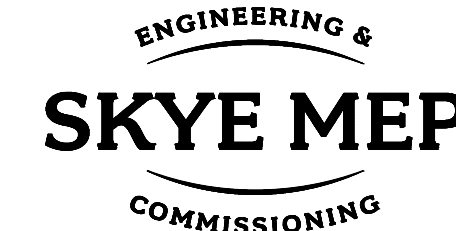
A.I.C. Rating: 10,000 Mains Type: MCB Mains Rating: 400 A MCB Rating: 250 A

Table with columns: CKT, Circuit Description, Trip, Poles, A, B, C, Poles, Trip, Circuit Description, CKT

Table with columns: Load Classification, Connected Load, Demand Factor, Estimated Demand, Panel Totals



KEY PLAN

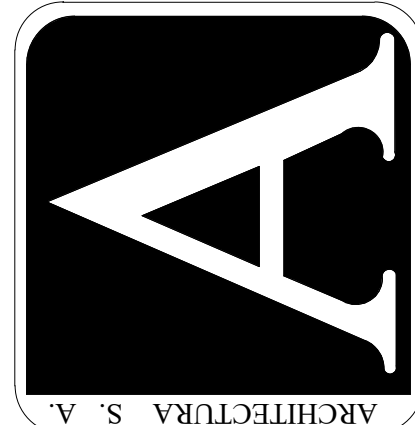


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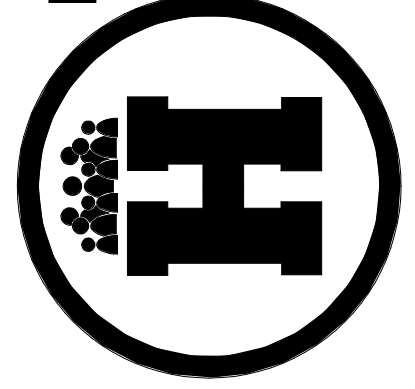
ELECTRICAL NOTES, SHEET E-3.3:

- 1 PROVIDE NEW CIRCUIT BREAKER IN EXISTING SPACE. MATCH SHORT CIRCUIT CURRENT RATING OF EXISTING EQUIPMENT. PROVIDE NEW TYPED PANEBOARD DIRECTORY.
2 PROVIDE GFCI TYPE CIRCUIT BREAKER.



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17038 REDLAND RD., SUITE 101, SAN ANTONIO, TEXAS 78247

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HARLANDALE INDEPENDENT SCHOOL DISTRICT
519 W HARDING BLVD.
SAN ANTONIO, TX 78221



Drawn By: JM
Checked By: ECM
Job Number: 2023.113

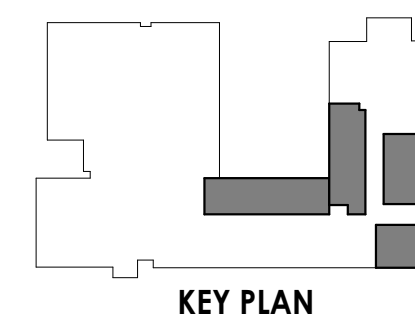
ELECTRICAL SCHEDULES

Table with columns: No., DATE, DESCRIPTION

Date: 04/24/23

Drawing No:

E-3.3



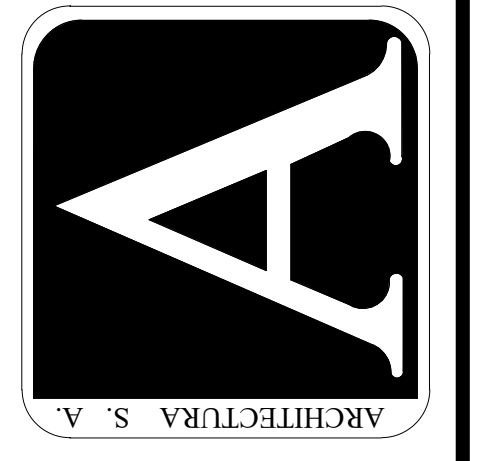
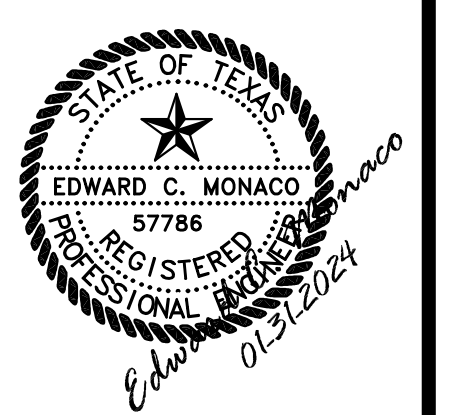
Panelboard: L1B (EXISTING - EATON)
Location: ELECTRICAL RM 157
Supply From: SURFACE
Mounting: SURFACE
Enclosure: Type 1
A.I.C. Rating: 10,000
Mains Type: MCB
Mains Rating: 150 A
MCB Rating: 150 A
Table with columns: CKT, Circuit Description, Trip, Poles, A, B, C, Poles, Trip, Circuit Description, CKT

Panelboard: L1G
Location: ELECTRICAL RM 157
Supply From: T-L1G
Mounting: SURFACE
Enclosure: Type 1
A.I.C. Rating: 10,000
Mains Type: MCB
Mains Rating: 400 A
MCB Rating: 250 A
Table with columns: CKT, Circuit Description, Trip, Poles, A, B, C, Poles, Trip, Circuit Description, CKT

Panelboard: HEQ1B (EXISTING - EATON)
Location: ELECTRICAL RM 157
Supply From: MSB
Mounting: SURFACE
Enclosure: Type 1
A.I.C. Rating: 14,000
Mains Type: MLO
Mains Rating: 225 A
MCB Rating: 225 A
Table with columns: CKT, Circuit Description, Trip, Poles, A, B, C, Poles, Trip, Circuit Description, CKT

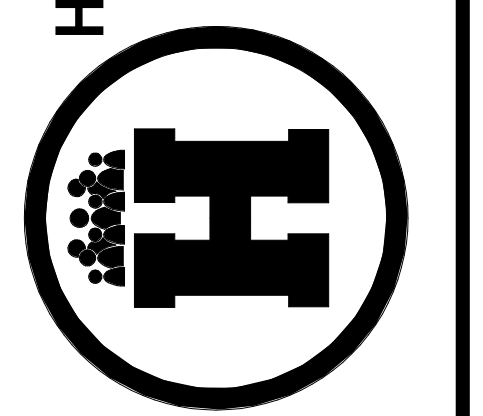
Panelboard: LC1B (EXISTING - EATON)
Location: ELECTRICAL RM 157
Supply From: SURFACE
Mounting: SURFACE
Enclosure: Type 1
A.I.C. Rating: 10,000
Mains Type: MCB
Mains Rating: 100 A
MCB Rating: 100 A
Table with columns: CKT, Circuit Description, Trip, Poles, A, B, C, Poles, Trip, Circuit Description, CKT

NOTE: EXISTING LOAD FOR THIS PANEL IS NOT SHOWN ON THE SCHEDULE. ITS REFLECTED IN THE EXISTING LOAD SHOWN ON THE LOAD ANALYSIS.



ARCHITECTURA S.A., INC.
ARCHITECTURE INTERIOR DESIGN PLANNING
17038 REDLAND RD., SUITE 101, SAN ANTONIO, TEXAS 78247
t. 210.384.8200 f. 210.319.3555
architecturass@yahoo.com

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Drawn By: JM
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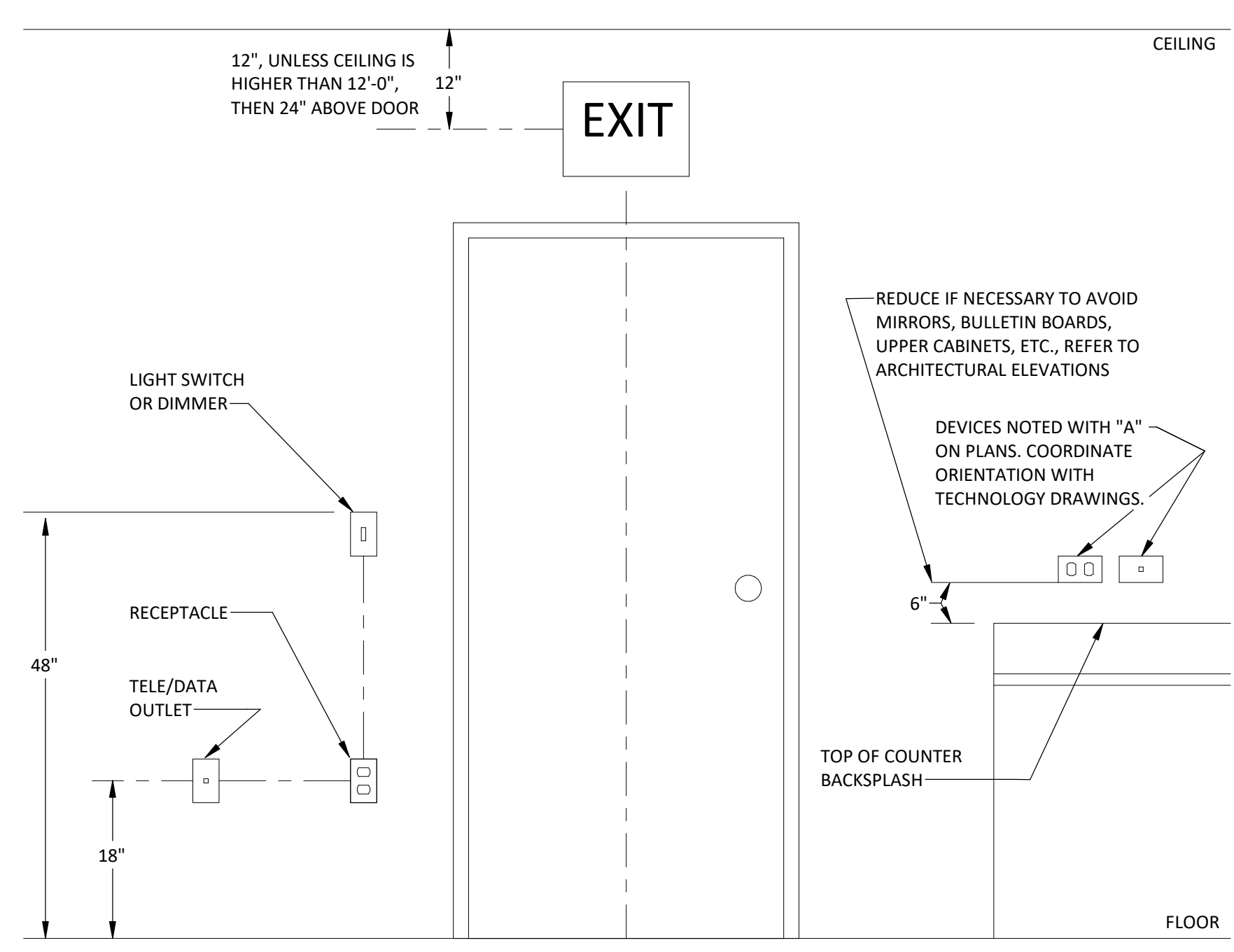
ELECTRICAL DETAILS

| No. | DATE | DESCRIPTION |
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Date: 04/24/23

Drawing No:

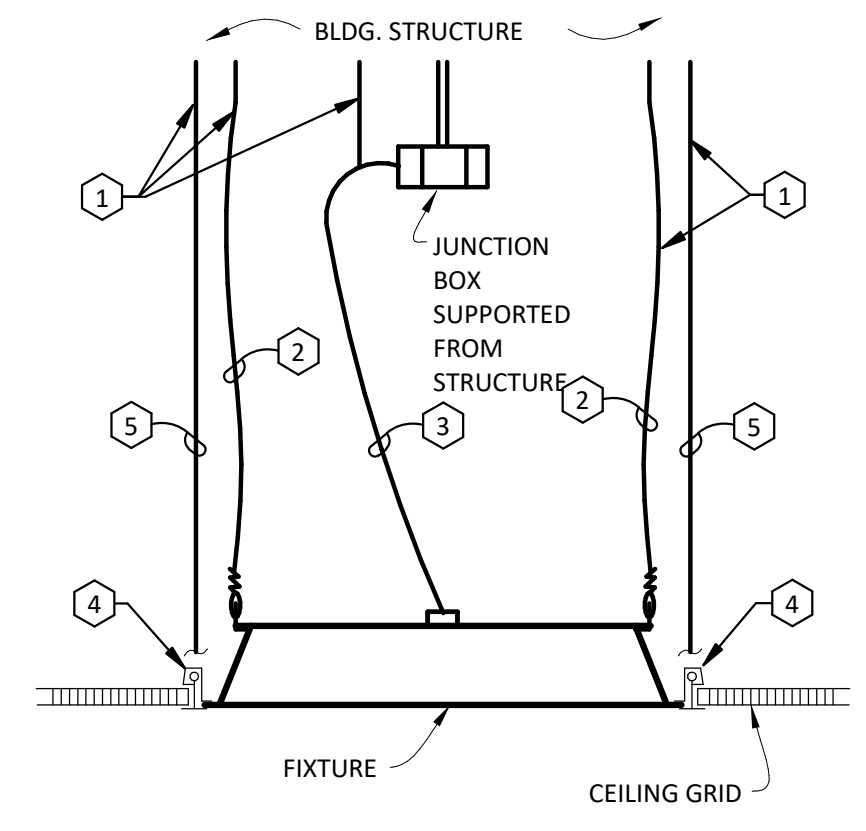
E-4.0



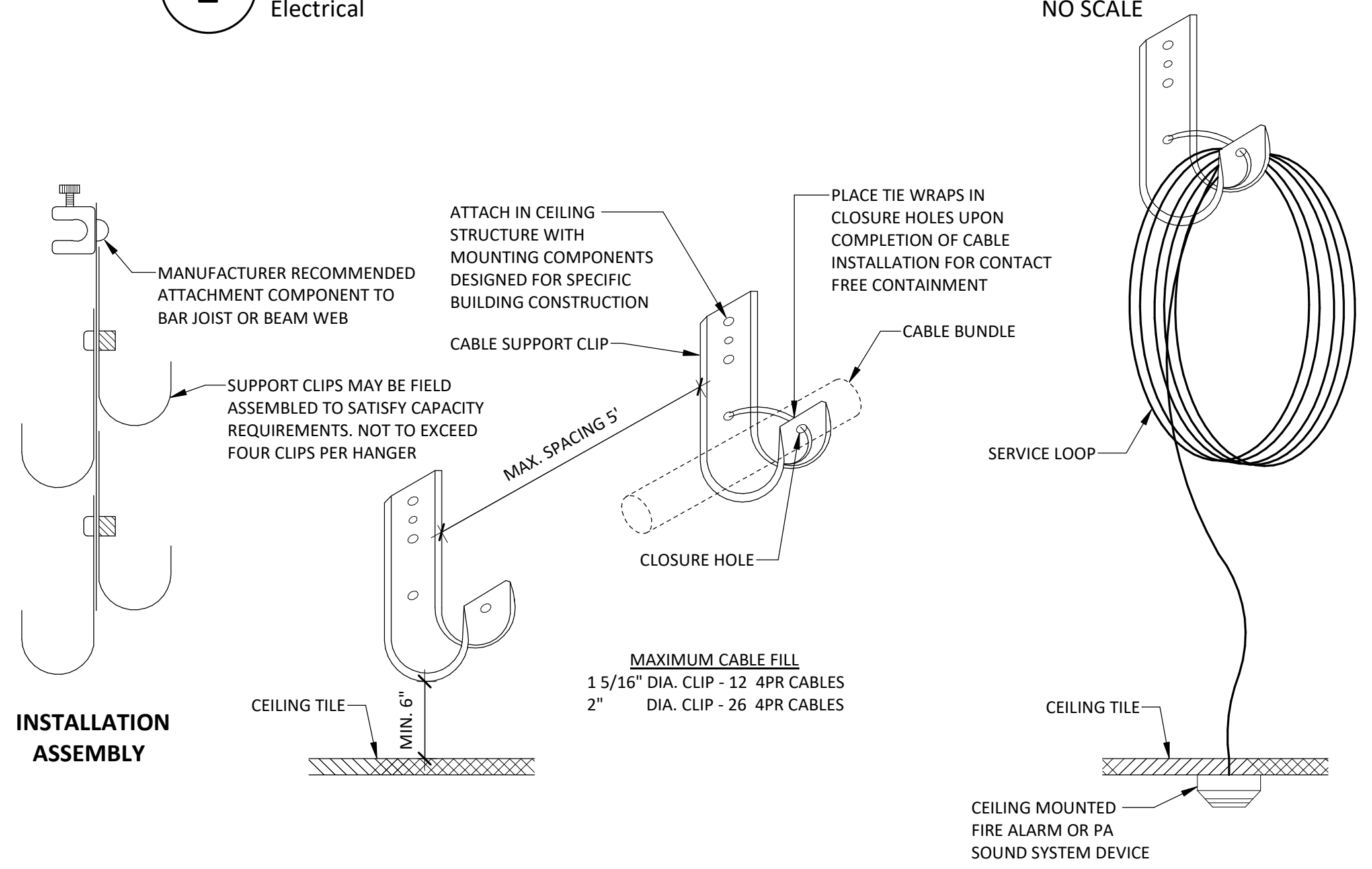
1 DEVICE & LUMINAIRE MOUNTING HEIGHTS
Electrical NO SCALE

RECESSED LIGHTING FIXTURE NOTES:

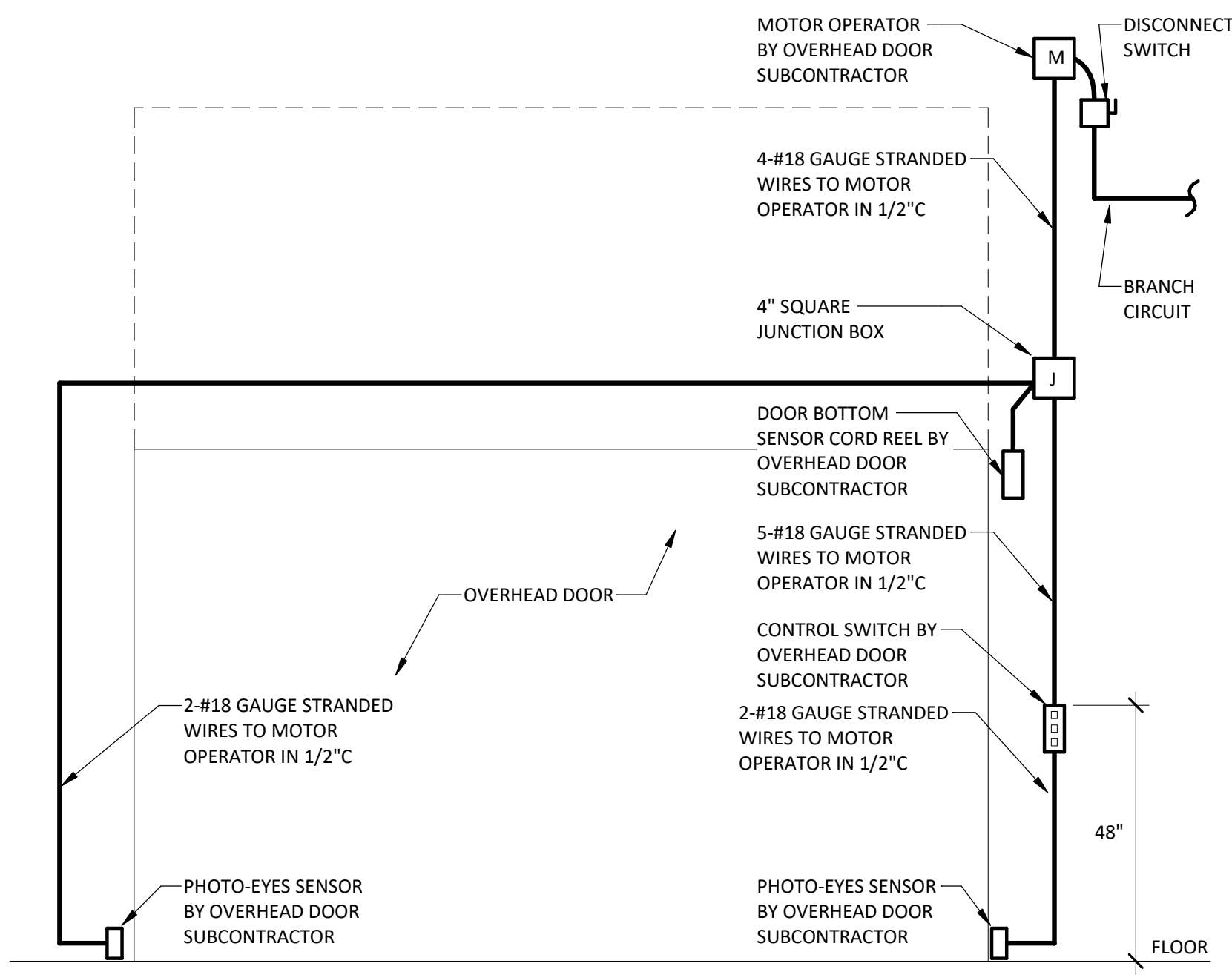
- SUPPORT FROM STRUCTURE. INSERTS OR ANCHOR AS REQUIRED.
- SAFETY WIRES TO BE PROVIDED & INSTALLED BY ELECTRICAL TRADES. PROVIDE SAFETY WIRES TO ALL FOUR CORNERS. WIRES TO BE MINIMUM 12 GAUGE SAME AS SPECIFIED FOR ACOUSTICAL CEILING GRID HANGER WIRES.
- FLEXIBLE CONDUIT WITH GROUND OR TYPE "MC" METAL CLAD CABLE WITH GROUND (6FT MAX. LENGTH)
- CADDY (OR EQUAL) UL LISTED MODEL 515A LAY-IN TROFFER LIGHT FIXTURE SUPPORT CLIPS (4 PER FIXTURE) OR CEILING CLIPS INTEGRAL WITH LIGHT FIXTURE TO SECURE FIXTURE TO CEILING GRID.
- CEILING GRID HANGAR WIRE. REFER TO SPECIFICATION DIVISION 9 - SUSPENDED ACOUSTICAL CEILINGS FOR MATERIALS AND SPACING FOR FIXTURE LOADS.



2 LIGHT FIXTURE INSTALLATION DETAIL
Electrical NO SCALE



5 J-HANGER SUPPORT DETAIL
Electrical NO SCALE



GENERAL NOTES:

- ELECTRICAL CONTRACTOR TO PROVIDE CONNECTION TO MOTOR OPERATOR, DISCONNECT SWITCH, JUNCTION BOXES, CONDUIT, CONDUCTORS, BRANCH CIRCUITS, ETC. AS REQUIRED. ALL WORK SHALL BE IN ACCORDANCE WITH APPLICABLE DIVISION 26 SECTION.
- OVERHEAD DOOR SUBCONTRACTOR TO PROVIDE FINAL CONNECTIONS FOR CONTROL AND SAFETY DEVICES AS REQUIRED.
- REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS AND WIRING DIAGRAM FOR FINAL CONDUCTOR SIZES AND ARRANGEMENT.
- ELECTRICAL SUBCONTRACTOR TO FURNISH AND INSTALL THE CONDUIT, BOXES AND 18 GA. STRANDED WIRE FOR THE OVERHEAD DOOR CONTROLS. FINAL CONNECTIONS OF CONTROL WIRING TO BE PROVIDED BY THE OVERHEAD DOOR SUBCONTRACTOR.

3 OVERHEAD DOOR INSTALLATION DETAIL
Electrical NOT TO SCALE

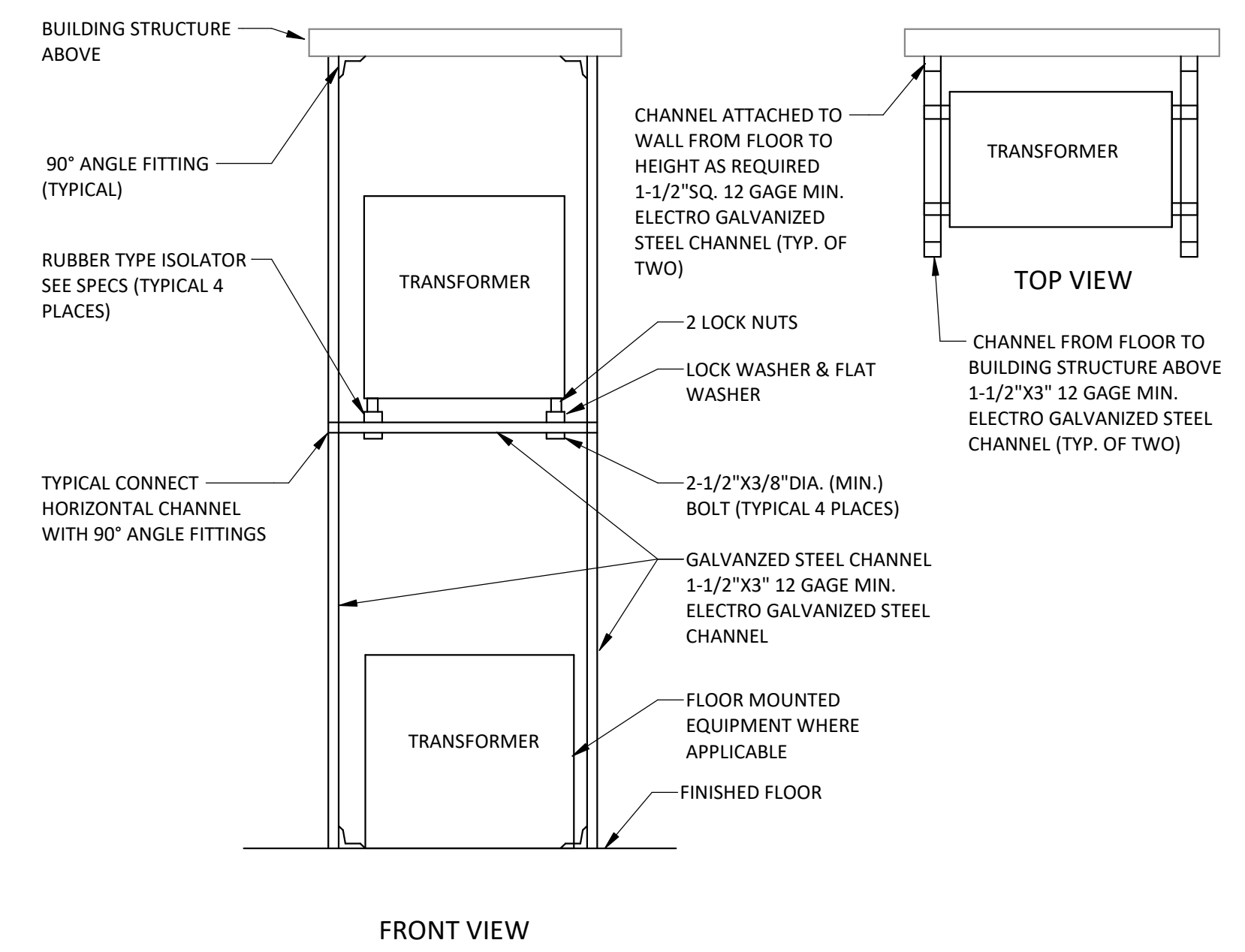
| DRY-TYPE TRANSFORMER SCHEDULE | | | | | | | | | | |
|-------------------------------|---------------------|------|------|-------|-------|-------|-------|-------|-------|--------|
| MK | DESCRIPTION | 9 | 15 | 30 | 45 | 75 | 112.5 | 150 | 225 | 300 |
| (A) | PRIMARY VOLTS | 480 | 480 | 480 | 480 | 480 | 480 | 480 | 480 | 480 |
| (B) | SECONDARY VOLTS | 208 | 208 | 208 | 208 | 208 | 208 | 208 | 208 | 208 |
| (C) | PHASE | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| (D) | PRIMARY FUSE / CB | 15/3 | 25/3 | 45/3 | 70/3 | 125/3 | 175/3 | 225/3 | 350/3 | 450/3 |
| (E) | PRIMARY FEEDER | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) |
| (F) | SECONDARY FUSE / CB | 30/3 | 50/3 | 100/3 | 150/3 | 250/3 | 400/3 | 500/3 | 750/3 | 1000/3 |
| (G) | SECONDARY FEEDER | (10) | (11) | (12) | (13) | (14) | (15) | (16) | (17) | (18) |
| (H) | EQUIP. GR. (PRI) | #12 | #10 | #10 | #8 | #6 | #6 | #4 | #2 | #2 |
| (J) | EQUIP. GR. (SEC) | #10 | #10 | #8 | #6 | #2 | #2 | #1/0 | #2/0 | #2/0 |
| (K) | BONDING JUMPER | #8 | #8 | #8 | #6 | #2 | #1/0 | #1/0 | #2/0 | #4/0 |
| (L) | MAIN BONDING JUMPER | #8 | #8 | #8 | #6 | #2 | #1/0 | #1/0 | #2/0 | #4/0 |
| (M) | GR. ELECTRODE COND. | #8 | #8 | #8 | #6 | #2 | #1/0 | #1/0 | #2/0 | #3/0 |
| (N) | GR. ELECTRODE | (2) | (2) | (2) | (2) | (2) | (2) | (2) | (2) | (2) |

FEEDER SCHEDULE: (1)

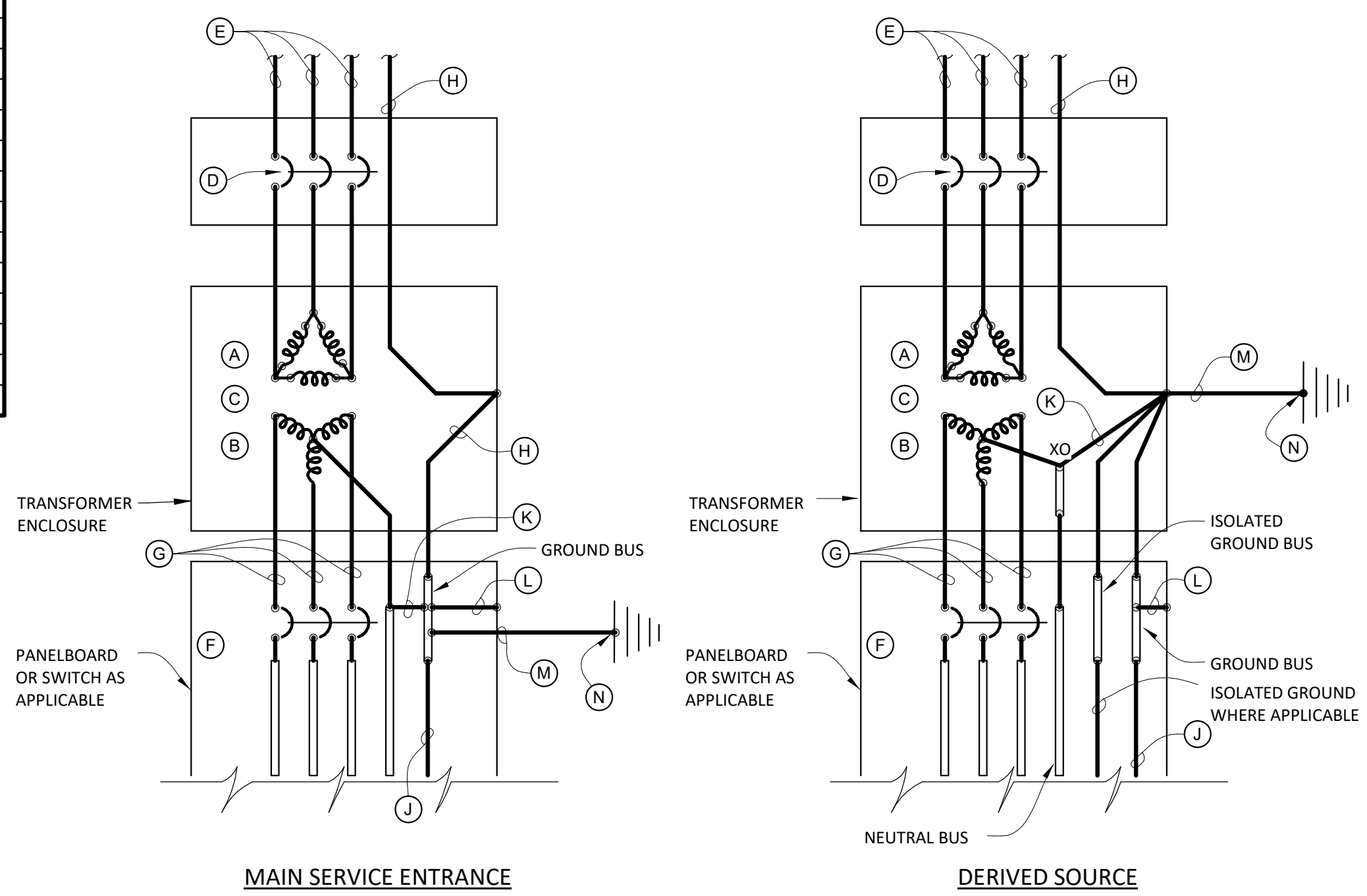
- 3#12 & 1#12 GR IN 3/4" CONDUIT
- 3#10 & 1#10 GR IN 3/4" CONDUIT
- 3#6 & 1#10 GR IN 3/4" CONDUIT
- 3#4 & 1#8 GR IN 1" CONDUIT
- 3#1/0 & 1#6 GR IN 2" CONDUIT
- 3#2/0 & 1#6 GR IN 2" CONDUIT
- 3#4/0 & 1#4 GR IN 2" CONDUIT
- 3-500MCM & 1#2 GR IN 3" CONDUIT
- TWO SETS, 3-250MCM & 1#2 GR IN 3" CONDUIT
- 4#10 & 1#10 GR IN 3/4" CONDUIT
- 4#6 & 1#10 GR IN 1" CONDUIT
- 4#2 & 1#8 GR IN 1 1/2" CONDUIT
- 4#1/0 & 1#6 GR IN 2" CONDUIT
- 4-250 KCMIL & 1#4 GR IN 3" CONDUIT
- 4-600MCM & 1#2 GR IN 4" CONDUIT
- TWO SETS, 4-250MCM & 1#2 GR IN 2-3" CONDUIT
- TWO SETS, 4-500MCM & 1#1/0 GR IN 2-4" CONDUIT
- THREE SETS, 4-500MCM & 1#2/0 GR IN 3-4" CONDUIT

TRANSFORMER SCHEDULE NOTES:

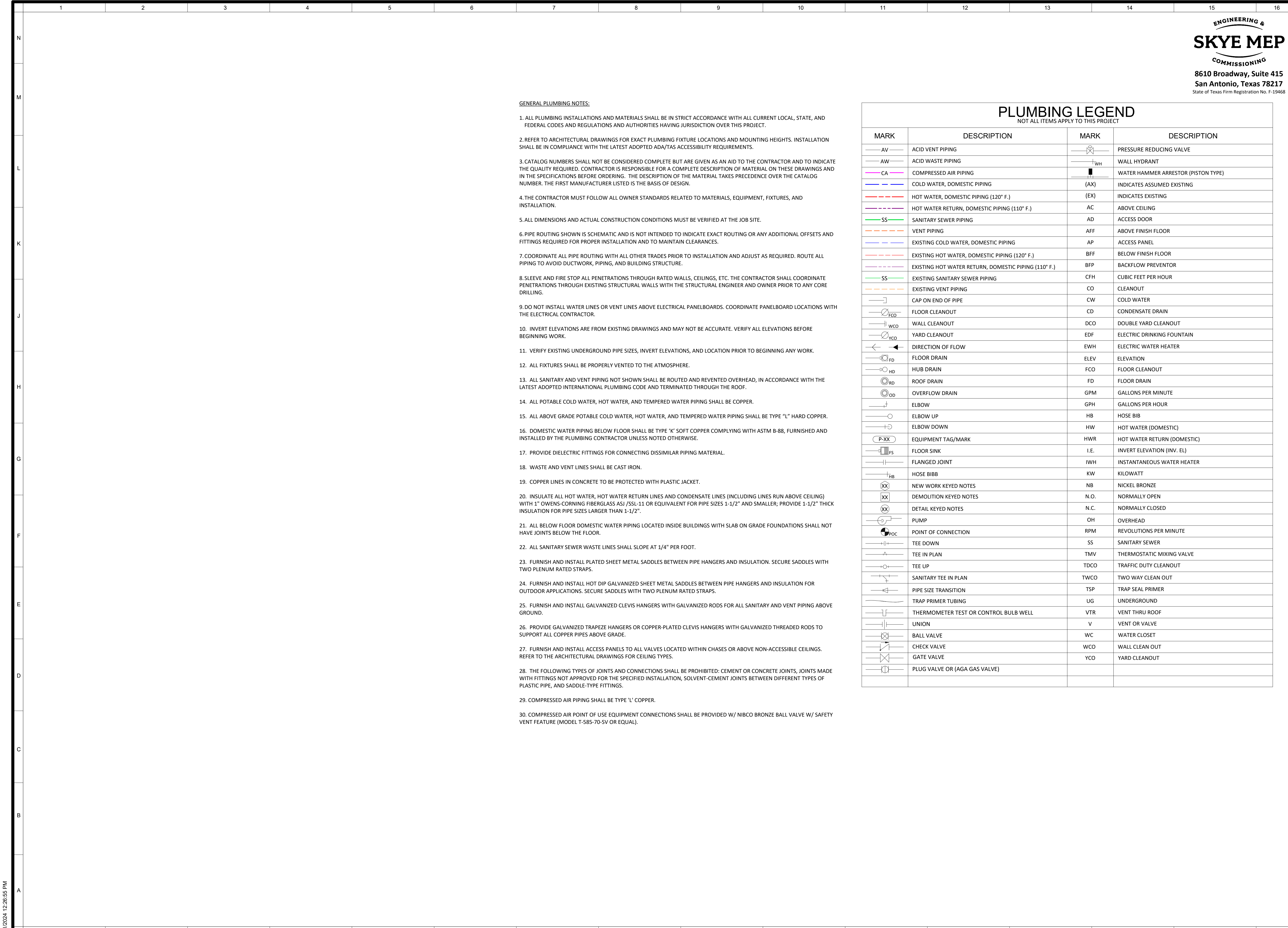
- CONDUCTOR & GROUND INSULATION SHALL BE THHN IN DRY LOCATIONS & THWN IN WET LOCATIONS.
- STEEL FRAME OF BUILDING & INTERIOR COPPER DOMESTIC COLD WATER PIPING.



4 TRANSFORMER RACK MTG. DETAIL
Electrical NO SCALE

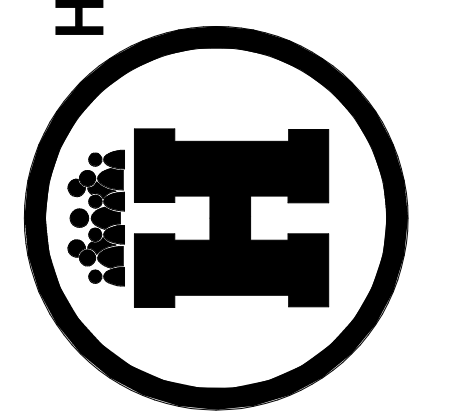


6 DRY-TYPE TRANSFORMER DETAIL
Electrical NO SCALE



ARCHITECTURA S.A., INC.
ARCHITECTURE INTERIOR DESIGN PLANNING
17038 REDLAND RD., SUITE 101, SAN ANTONIO, TEXAS 78247
t. 210.384.8200 f. 210.319.3555
architecturass@yahoo.com

**HISD CAREER TECHNOLOGY
EDUCATION (CTE)**
HARLANDALE INDEPENDENT SCHOOL DISTRICT
519 W HARDING BLVD.
SAN ANTONIO, TX 78221



Drawn By: BRM
Checked By: DRG
Job Number: 2023.113

PLUMBING LEGEND AND NOTES

| No. | DATE | DESCRIPTION |
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Date: 04/24/23

Drawing No:
P-0.1

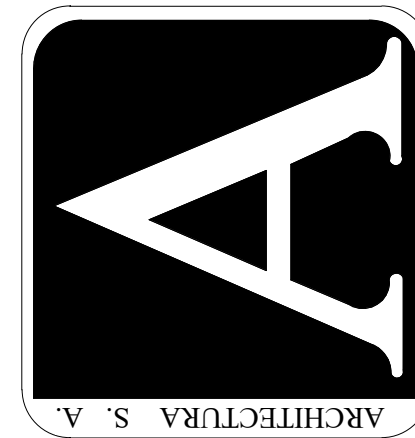
GENERAL PLUMBING NOTES:

- ALL PLUMBING INSTALLATIONS AND MATERIALS SHALL BE IN STRICT ACCORDANCE WITH ALL CURRENT LOCAL, STATE, AND FEDERAL CODES AND REGULATIONS AND AUTHORITIES HAVING JURISDICTION OVER THIS PROJECT.
- REFER TO ARCHITECTURAL DRAWINGS FOR EXACT PLUMBING FIXTURE LOCATIONS AND MOUNTING HEIGHTS. INSTALLATION SHALL BE IN COMPLIANCE WITH THE LATEST ADOPTED ADA/TAS ACCESSIBILITY REQUIREMENTS.
- CATALOG NUMBERS SHALL NOT BE CONSIDERED COMPLETE BUT ARE GIVEN AS AN AID TO THE CONTRACTOR AND TO INDICATE THE QUALITY REQUIRED. CONTRACTOR IS RESPONSIBLE FOR A COMPLETE DESCRIPTION OF MATERIAL ON THESE DRAWINGS AND IN THE SPECIFICATIONS BEFORE ORDERING. THE DESCRIPTION OF THE MATERIAL TAKES PRECEDENCE OVER THE CATALOG NUMBER. THE FIRST MANUFACTURER LISTED IS THE BASIS OF DESIGN.
- THE CONTRACTOR MUST FOLLOW ALL OWNER STANDARDS RELATED TO MATERIALS, EQUIPMENT, FIXTURES, AND INSTALLATION.
- ALL DIMENSIONS AND ACTUAL CONSTRUCTION CONDITIONS MUST BE VERIFIED AT THE JOB SITE.
- PIPE ROUTING SHOWN IS SCHEMATIC AND IS NOT INTENDED TO INDICATE EXACT ROUTING OR ANY ADDITIONAL OFFSETS AND FITTINGS REQUIRED FOR PROPER INSTALLATION AND TO MAINTAIN CLEARANCES.
- COORDINATE ALL PIPE ROUTING WITH ALL OTHER TRADES PRIOR TO INSTALLATION AND ADJUST AS REQUIRED. ROUTE ALL PIPING TO AVOID DUCTWORK, PIPING, AND BUILDING STRUCTURE.
- SLEEVE AND FIRE STOP ALL PENETRATIONS THROUGH RATED WALLS, CEILINGS, ETC. THE CONTRACTOR SHALL COORDINATE PENETRATIONS THROUGH EXISTING STRUCTURAL WALLS WITH THE STRUCTURAL ENGINEER AND OWNER PRIOR TO ANY CORE DRILLING.
- DO NOT INSTALL WATER LINES OR VENT LINES ABOVE ELECTRICAL PANELBOARDS. COORDINATE PANELBOARD LOCATIONS WITH THE ELECTRICAL CONTRACTOR.
- INVERT ELEVATIONS ARE FROM EXISTING DRAWINGS AND MAY NOT BE ACCURATE. VERIFY ALL ELEVATIONS BEFORE BEGINNING WORK.
- VERIFY EXISTING UNDERGROUND PIPE SIZES, INVERT ELEVATIONS, AND LOCATION PRIOR TO BEGINNING ANY WORK.
- ALL FIXTURES SHALL BE PROPERLY VENTED TO THE ATMOSPHERE.
- ALL SANITARY AND VENT PIPING NOT SHOWN SHALL BE ROUTED AND REVENTED OVERHEAD, IN ACCORDANCE WITH THE LATEST ADOPTED INTERNATIONAL PLUMBING CODE AND TERMINATED THROUGH THE ROOF.
- ALL POTABLE COLD WATER, HOT WATER, AND TEMPERED WATER PIPING SHALL BE COPPER.
- ALL ABOVE GRADE POTABLE COLD WATER, HOT WATER, AND TEMPERED WATER PIPING SHALL BE TYPE "L" HARD COPPER.
- DOMESTIC WATER PIPING BELOW FLOOR SHALL BE TYPE "K" SOFT COPPER COMPLYING WITH ASTM B-88, FURNISHED AND INSTALLED BY THE PLUMBING CONTRACTOR UNLESS NOTED OTHERWISE.
- PROVIDE DIELECTRIC FITTINGS FOR CONNECTING DISSIMILAR PIPING MATERIAL.
- WASTE AND VENT LINES SHALL BE CAST IRON.
- COPPER LINES IN CONCRETE TO BE PROTECTED WITH PLASTIC JACKET.
- INSULATE ALL HOT WATER, HOT WATER RETURN LINES AND CONDENSATE LINES (INCLUDING LINES RUN ABOVE CEILING) WITH 1" OWENS-CORNING FIBERGLASS ASJ /SSL-11 OR EQUIVALENT FOR PIPE SIZES 1-1/2" AND SMALLER; PROVIDE 1-1/2" THICK INSULATION FOR PIPE SIZES LARGER THAN 1-1/2".
- ALL BELOW FLOOR DOMESTIC WATER PIPING LOCATED INSIDE BUILDINGS WITH SLAB ON GRADE FOUNDATIONS SHALL NOT HAVE JOINTS BELOW THE FLOOR.
- ALL SANITARY SEWER WASTE LINES SHALL SLOPE AT 1/4" PER FOOT.
- FURNISH AND INSTALL PLATED SHEET METAL SADDLES BETWEEN PIPE HANGERS AND INSULATION. SECURE SADDLES WITH TWO PLENUM RATED STRAPS.
- FURNISH AND INSTALL HOT DIP GALVANIZED SHEET METAL SADDLES BETWEEN PIPE HANGERS AND INSULATION FOR OUTDOOR APPLICATIONS. SECURE SADDLES WITH TWO PLENUM RATED STRAPS.
- FURNISH AND INSTALL GALVANIZED CLEVIS HANGERS WITH GALVANIZED RODS FOR ALL SANITARY AND VENT PIPING ABOVE GROUND.
- PROVIDE GALVANIZED TRAPEZE HANGERS OR COPPER-PLATED CLEVIS HANGERS WITH GALVANIZED THREADED RODS TO SUPPORT ALL COPPER PIPES ABOVE GRADE.
- FURNISH AND INSTALL ACCESS PANELS TO ALL VALVES LOCATED WITHIN CHASES OR ABOVE NON-ACCESSIBLE CEILINGS. REFER TO THE ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
- THE FOLLOWING TYPES OF JOINTS AND CONNECTIONS SHALL BE PROHIBITED: CEMENT OR CONCRETE JOINTS, JOINTS MADE WITH FITTINGS NOT APPROVED FOR THE SPECIFIED INSTALLATION, SOLVENT-CEMENT JOINTS BETWEEN DIFFERENT TYPES OF PLASTIC PIPE, AND SADDLE-TYPE FITTINGS.
- COMPRESSED AIR PIPING SHALL BE TYPE "L" COPPER.
- COMPRESSED AIR POINT OF USE EQUIPMENT CONNECTIONS SHALL BE PROVIDED W/ NIBCO BRONZE BALL VALVE W/ SAFETY VENT FEATURE (MODEL T-585-70-SV OR EQUAL).

PLUMBING LEGEND
NOT ALL ITEMS APPLY TO THIS PROJECT

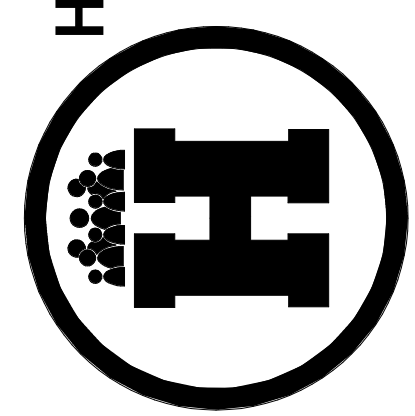
| MARK | DESCRIPTION | MARK | DESCRIPTION |
|----------|--|-----------------|-------------------------------------|
| — AV — | ACID VENT PIPING | ⊗ | PRESSURE REDUCING VALVE |
| — AW — | ACID WASTE PIPING | ⊕ _{WH} | WALL HYDRANT |
| — CA — | COMPRESSED AIR PIPING | ■ | WATER HAMMER ARRESTOR (PISTON TYPE) |
| — C — | COLD WATER, DOMESTIC PIPING | (AX) | INDICATES ASSUMED EXISTING |
| — H — | HOT WATER, DOMESTIC PIPING (120° F.) | (EX) | INDICATES EXISTING |
| — R — | HOT WATER RETURN, DOMESTIC PIPING (110° F.) | AC | ABOVE CEILING |
| — SS — | SANITARY SEWER PIPING | AD | ACCESS DOOR |
| — V — | VENT PIPING | AFF | ABOVE FINISH FLOOR |
| — E — | EXISTING COLD WATER, DOMESTIC PIPING | AP | ACCESS PANEL |
| — EH — | EXISTING HOT WATER, DOMESTIC PIPING (120° F.) | BFF | BELOW FINISH FLOOR |
| — ER — | EXISTING HOT WATER RETURN, DOMESTIC PIPING (110° F.) | BFP | BACKFLOW PREVENTOR |
| — ESS — | EXISTING SANITARY SEWER PIPING | CFH | CUBIC FEET PER HOUR |
| — EV — | EXISTING VENT PIPING | CO | CLEANOUT |
| — CAP — | CAP ON END OF PIPE | CW | COLD WATER |
| — FCO — | FLOOR CLEANOUT | CD | CONDENSATE DRAIN |
| — WCO — | WALL CLEANOUT | DCO | DOUBLE YARD CLEANOUT |
| — YCO — | YARD CLEANOUT | EDF | ELECTRIC DRINKING FOUNTAIN |
| ← | DIRECTION OF FLOW | EWH | ELECTRIC WATER HEATER |
| — FD — | FLOOR DRAIN | ELEV | ELEVATION |
| — HD — | HUB DRAIN | FCO | FLOOR CLEANOUT |
| — RD — | ROOF DRAIN | FD | FLOOR DRAIN |
| — OD — | OVERFLOW DRAIN | GPM | GALLONS PER MINUTE |
| — E — | ELBOW | GPH | GALLONS PER HOUR |
| — U — | ELBOW UP | HB | HOSE BIB |
| — D — | ELBOW DOWN | HW | HOT WATER (DOMESTIC) |
| — P-XX — | EQUIPMENT TAG/MARK | HWR | HOT WATER RETURN (DOMESTIC) |
| — FS — | FLOOR SINK | I.E. | INVERT ELEVATION (INV. EL) |
| — FJ — | FLANGED JOINT | IWH | INSTANTANEOUS WATER HEATER |
| — HB — | HOSE BIBB | KW | KILOWATT |
| XX | NEW WORK KEYED NOTES | NB | NICKEL BRONZE |
| XX | DEMOLITION KEYED NOTES | N.O. | NORMALLY OPEN |
| XX | DETAIL KEYED NOTES | N.C. | NORMALLY CLOSED |
| — P — | PUMP | OH | OVERHEAD |
| — POC — | POINT OF CONNECTION | RPM | REVOLUTIONS PER MINUTE |
| — TD — | TEE DOWN | SS | SANITARY SEWER |
| — TI — | TEE IN PLAN | TMV | THERMOSTATIC MIXING VALVE |
| — TU — | TEE UP | TDCO | TRAFFIC DUTY CLEANOUT |
| — STI — | SANITARY TEE IN PLAN | TWCO | TWO WAY CLEAN OUT |
| — PT — | PIPE SIZE TRANSITION | TSP | TRAP SEAL PRIMER |
| — PRT — | TRAP PRIMER TUBING | UG | UNDERGROUND |
| — TTBW — | THERMOMETER TEST OR CONTROL BULB WELL | VTR | VENT THRU ROOF |
| — U — | UNION | V | VENT OR VALVE |
| — BV — | BALL VALVE | WC | WATER CLOSET |
| — CV — | CHECK VALVE | WCO | WALL CLEAN OUT |
| — GV — | GATE VALVE | YCO | YARD CLEANOUT |
| — PV — | PLUG VALVE OR (AGA GAS VALVE) | | |

ENGINEERING &
SKYE MEP
COMMISSIONING
8610 Broadway, Suite 415
San Antonio, Texas 78217
State of Texas Firm Registration No. F-19468



ARCHITECTURA S.A., INC.
ARCHITECTURE INTERIOR DESIGN PLANNING
17038 REDLAND RD., SUITE 101, SAN ANTONIO, TEXAS 78247
t. 210.384.8200 f. 210.319.3555
architecturasa@yahoo.com

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SAN ANTONIO, TX 78221



Drawn By: Author
Checked By: Checker
Job Number: 2023.113

PLUMBING DEMOLITION PLAN

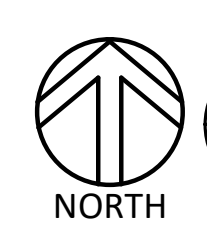
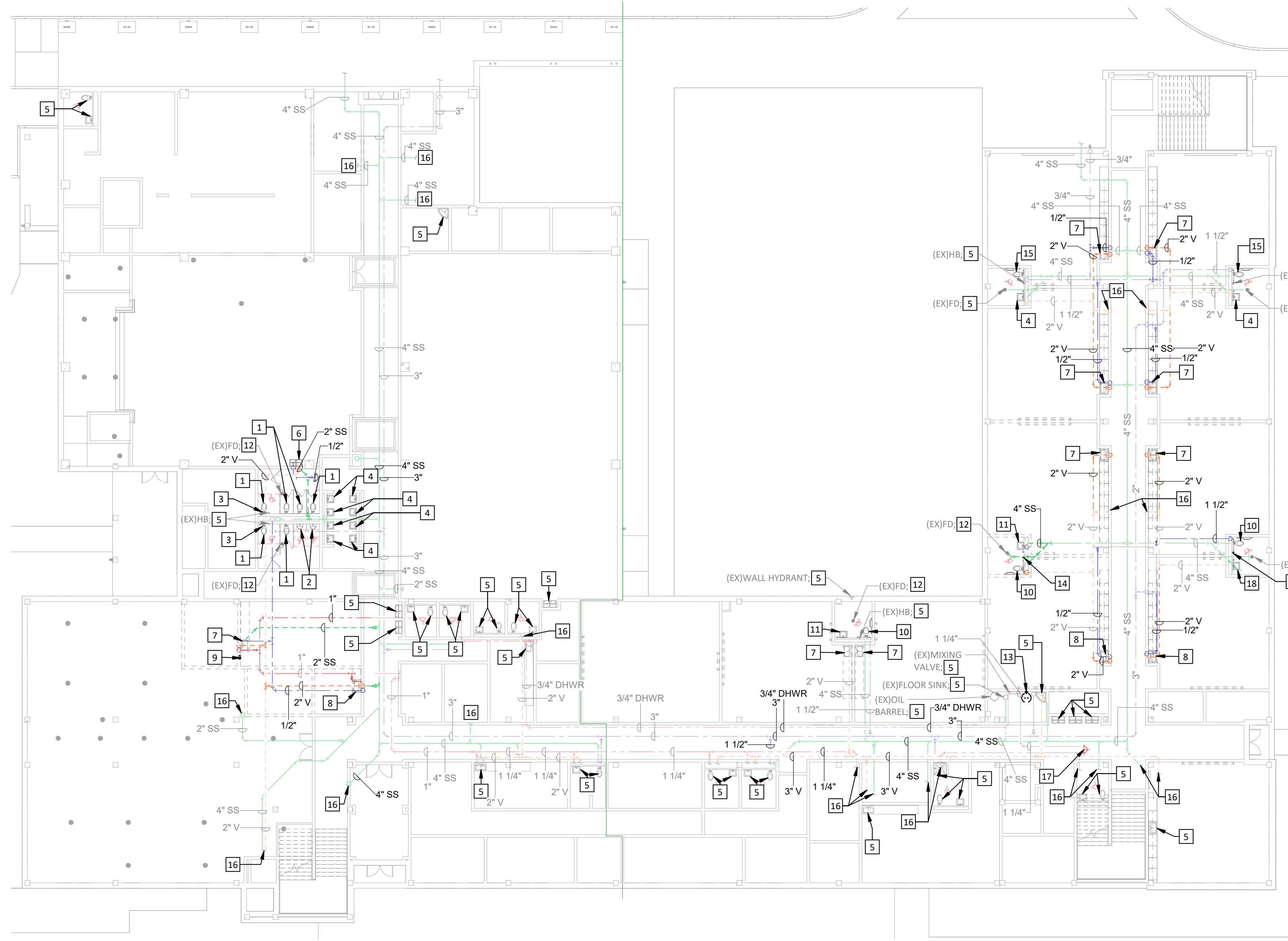
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Date: 04/24/23
Drawing No:

PD-1.1

PLUMBING DEMOLITION KEYED NOTES, PLAN 101:

- 1** EXISTING WALL-MOUNTED FLUSH VALVE WATER CLOSET AND SEAT SHALL BE REMOVED AND RETAINED FOR REUSE. EXISTING SEWER WALL STUB-OUT SHALL BE REMOVED AND REWORKED FOR RECONNECTION. EXISTING CW STUB-OUT SHALL BE REMOVED AND REWORKED FOR RECONNECTION. EXISTING VENT PIPING UTILITY CONNECTION SHALL REMAIN FOR REUSE. EXISTING IN-WALL FIXTURE CARRIER SHALL BE EVALUATED FOR REUSE TO INCREASE THE EXISTING FIXTURE SEAT HEIGHT.
- 2** EXISTING WALL-MOUNTED FLUSH VALVE URINAL SHALL BE REMOVED AND RETAINED FOR REUSE. EXISTING SEWER WALL STUB-OUT SHALL BE REMOVED AND REWORKED FOR RECONNECTION. EXISTING CW STUB-OUT SHALL BE REMOVED AND REWORKED FOR RECONNECTION. EXISTING VENT PIPING UTILITY CONNECTION SHALL REMAIN FOR REUSE. EXISTING IN-WALL FIXTURE CARRIER SHALL BE EVALUATED FOR REUSE TO INCREASE THE EXISTING FIXTURE RIM HEIGHT.
- 3** EXISTING FLUSH VALVE IS EQUIPPED WITH TRAP PRIMER SUPPLY ACCESSORY THAT SHALL BE REMOVED AND RETAINED FOR REUSE. ENSURE TRAP PRIMER SUPPLY PIPING IS CAREFULLY DISCONNECTED AND RETAINED FOR RECONNECTION.
- 4** EXISTING WALL-MOUNTED LAVATORY, FAUCET, SUPPLIES, RISERS, P-TRAP, AND TAILPIECE SHALL BE REMOVED AND RETAINED FOR REUSE. EXISTING SEWER STUB-OUT SHALL REMAIN FOR RECONNECTION. EXISTING WATER STUB-OUT SHALL REMAIN FOR RECONNECTION. EXISTING IN-WALL FIXTURE CARRIER SHALL BE EVALUATED FOR REUSE TO INCREASE THE FIXTURE RIM HEIGHT.
- 5** EXISTING FIXTURE SHALL REMAIN; ENSURE EXISTING UTILITY CONNECTIONS AND FIXTURE REMAIN ACTIVE AFTER RENOVATION IS COMPLETE.
- 6** EXISTING BI-LEVEL ELECTRIC DRINKING FOUNTAIN, STOP, SUPPLY, TAILPIECE, AND P-TRAP SHALL BE REMOVED. EXISTING UTILITIES SHALL BE REMOVED BACK TO NEAREST BRANCH CONNECTION AT NEAREST MAIN AND CAPPED. REMOVE EXISTING 2" SS WASTE BACK TO EXISTING 4" BRANCH AT MAIN IN CRAWLSPACE AND MAKE READY FOR EXTENSION AS PART OF NEW WORK. RETAIN 2" V BRANCH ABOVE CEILING FOR REUSE.
- 7** EXISTING COUNTER-MOUNTED ONE-COMPARTMENT STAINLESS STEEL SINK, FAUCET, SUPPLIES, RISERS, P-TRAP, AND TAILPIECE SHALL BE REMOVED. EXISTING SEWER STUB-OUT IN WALL SHALL BE REMOVED TO NEAREST BRANCH CONNECTION AT MAIN AND CAPPED. EXISTING VENT, CW, AND HW STUB-OUTS SHALL BE REMOVED TO NEAREST BRANCH CONNECTIONS AT MAIN AND CAPPED.
- 8** EXISTING COUNTER-MOUNTED ONE-COMPARTMENT STAINLESS STEEL SINK, FAUCET, SUPPLIES, RISERS, P-TRAP, AND TAILPIECE SHALL BE REMOVED. EXISTING SEWER STUB-OUT IN WALL SHALL REMAIN FOR REUSE AND EXTENSION. EXISTING CW AND HW STUB-OUTS SHALL REMAIN FOR REUSE AND EXTENSION.
- 9** EXISTING WALL-MOUNTED ICEMAKER WALL BOX SHALL BE REMOVED. EXISTING CW STUB-OUT SHALL BE REMOVED TO NEAREST BRANCH CONNECTION AT MAIN AND CAPPED.
- 10** EXISTING FLOOR-MOUNTED FLUSH VALVE WATER CLOSET AND SEAT SHALL BE REMOVED. EXISTING SEWER STUB-OUT SHALL BE REMOVED BACK TO NEAREST BRANCH CONNECTION FROM MAIN AND CAPPED. EXISTING CW STUB-OUT SHALL BE REMOVED BACK TO NEAREST BRANCH CONNECTION FROM MAIN AND CAPPED. EXISTING VENT PIPING UTILITY CONNECTION SHALL BE REMOVED BACK TO NEAREST BRANCH CONNECTION FROM MAIN AND CAPPED. EXISTING TRAP PRIMER ACCESSORY SHALL BE REMOVED. PATCH ALL WALL PENETRATIONS TO MATCH EXISTING.
- 11** EXISTING WALL-MOUNTED LAVATORY, FAUCET, SUPPLIES, RISERS, P-TRAP, AND TAILPIECE SHALL BE REMOVED. EXISTING SEWER STUB-OUT IN WALL SHALL BE REMOVED TO NEAREST BRANCH CONNECTION AT MAIN AND CAPPED. EXISTING VENT, CW, AND HW STUB-OUTS SHALL BE REMOVED TO NEAREST BRANCH CONNECTIONS AT MAIN AND CAPPED.
- 12** CLEAN EXISTING FLOOR DRAIN GRATE WITH WIRE BRUSH AND ENSURE ITEM IS IN GOOD WORKING ORDER. VERIFY SOURCE OF TRAP PRIMER AND ENSURE SERVICE REMAINS ACTIVE AFTER RENOVATION IS COMPLETE. PROVIDE PRO-SET TRAP GUARD IF EXISTING FLOOR DRAIN HAS NO FUNCTIONING TRAP PRIMER MEANS.
- 13** EXISTING 50-GALLON A.O. SMITH ELECTRIC (6kW, 208V) WATER HEATER ON HOUSEKEEPING PAD SHALL BE REMOVED AND REPLACED; EXISTING EXPANSION TANK SHALL BE REMOVED AND REPLACED; EXISTING COLD WATER, HOT WATER, HOT WATER RETURN AND DRAINAGE UTILITIES SHALL REMAIN IN PLACE FOR RECONNECTION. ENSURE HW SERVICE REMAINS ACTIVE FOR UPDATED FIXTURES REMAINING ON SYSTEM AFTER RENOVATION IS COMPLETE. REMOVE EXISTING HOUSEKEEPING PAD FOR NEW HOUSEKEEPING PAD TO BE INSTALLED IN IT'S PLACE.
- 14** EXISTING WALL-MOUNTED HOSE BIBB SHALL BE REMOVED. EXISTING CW STUB-OUT SHALL BE REMOVED TO NEAREST BRANCH CONNECTIONS AT MAIN ABOVE CEILING AND CAPPED.
- 15** EXISTING FLOOR-MOUNTED FLUSH VALVE WATER CLOSET AND SEAT SHALL BE REMOVED. EXISTING SEWER STUB-OUT SHALL BE REMOVED AND REWORKED FOR RECONNECTION. EXISTING CW STUB-OUT SHALL BE REMOVED AND REWORKED FOR RECONNECTION. EXISTING VENT PIPING UTILITY CONNECTION SHALL REMAIN FOR REUSE.
- 16** ENSURE EXISTING BRANCH CONNECTIONS FROM MAIN REMAIN ACTIVE AFTER RENOVATION IS COMPLETE.
- 17** SITE LOCATE EXISTING 1-1/4" HW LOOP, INTERCEPT AND REMOVE FITTINGS NEEDED TO EXTEND 1-1/4" HW LOOP SHOWN ON NEW WORK PLANS.
- 18** EXISTING WALL-MOUNTED LAVATORY, FAUCET, SUPPLIES, RISERS, P-TRAP, AND TAILPIECE SHALL BE REMOVED. EXISTING SEWER STUB-OUT IN WALL SHALL BE REMOVED AND CAPPED IN WALL. EXISTING VENT, CW, AND HW STUB-OUTS SHALL BE REMOVED AND CAPPED IN WALL. REPAIR WALL TO MATCH EXISTING.

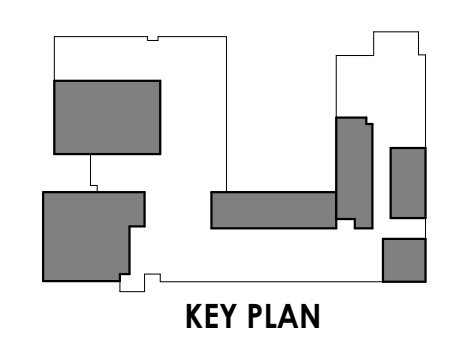


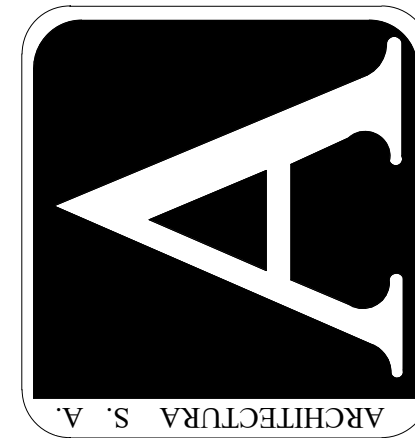
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PLUMBING DEMOLITION - FIRST FLOOR

Plumbing

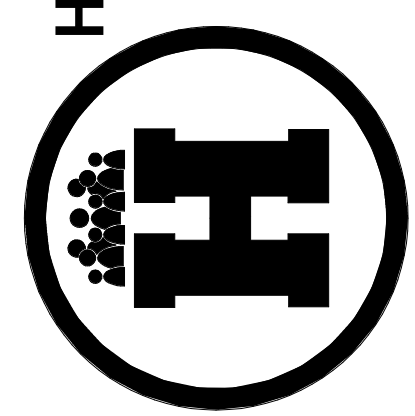
1/16" = 1'-0"





ARCHITECTURA S.A., INC.
ARCHITECTURE INTERIOR DESIGN PLANNING
17038 REDLAND RD., SUITE 101, SAN ANTONIO, TEXAS 78247
t. 210.384.8200 f. 210.319.3555
architecturasa@yahoo.com

HISD CAREER TECHNOLOGY EDUCATION (CTE)
HARLANDALE INDEPENDENT SCHOOL DISTRICT
519 W HARDING BLVD.
SAN ANTONIO, TX 78221



Drawn By: BRM
Checked By: DRG
Job Number: 2023.113

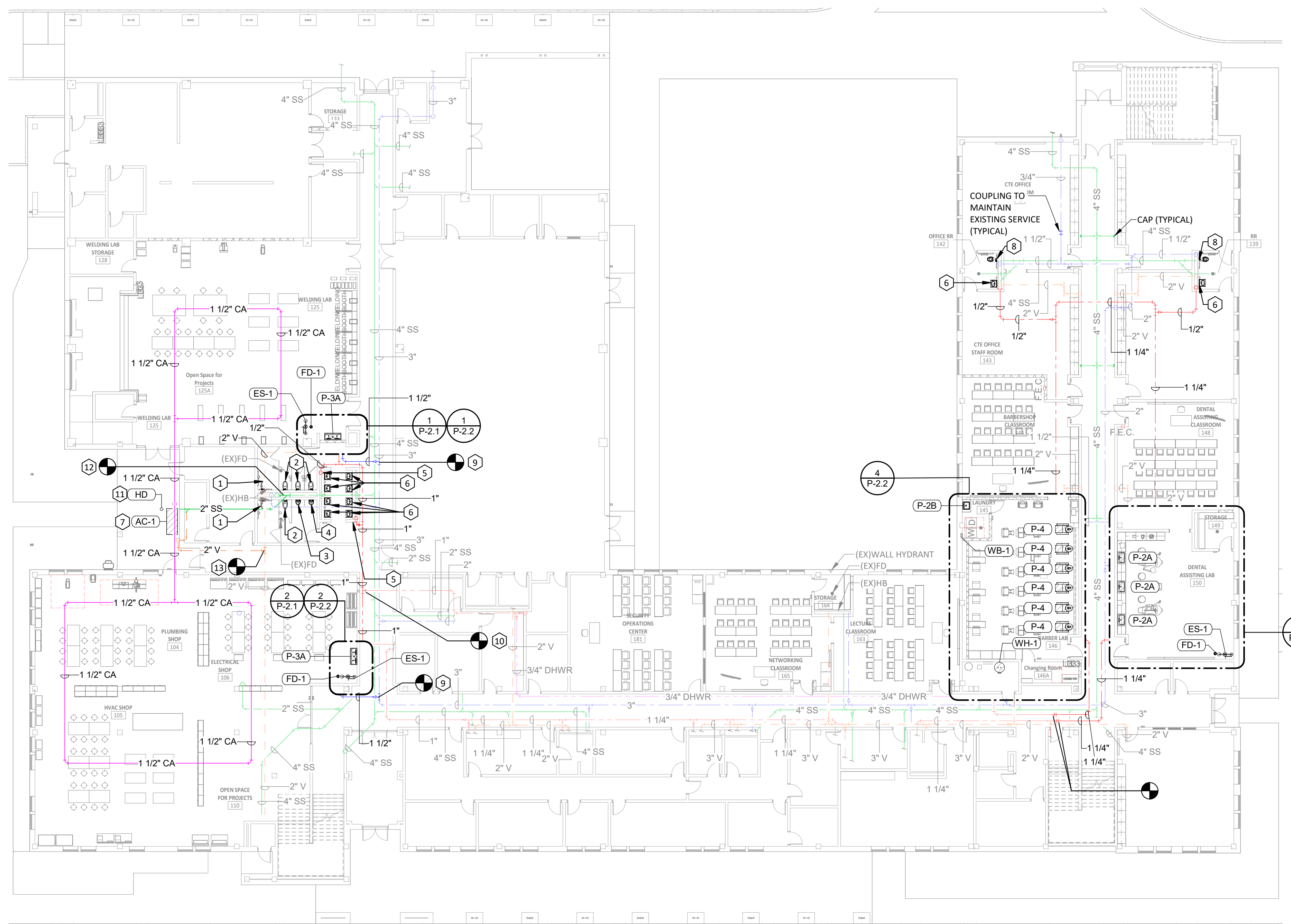
PLUMBING PLAN

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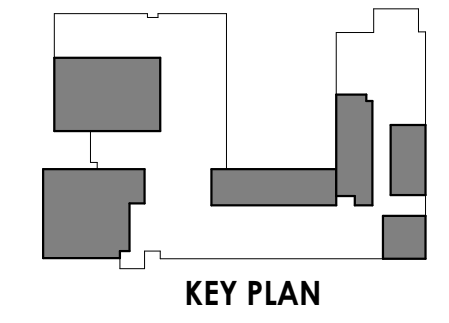
P-1.1

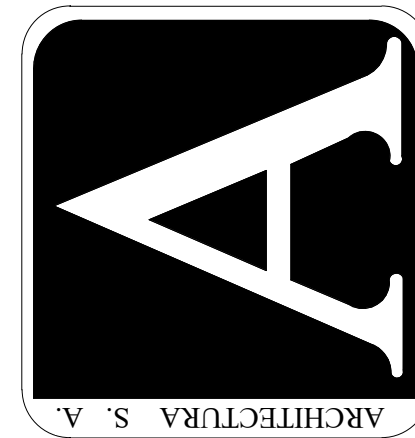


PLUMBING NEW WORK KEYED NOTES, SHEET P-1.1:

- RETAINED WALL-MOUNTED FLUSH VALVE WATER CLOSET AND SEAT SHALL BE REINSTALLED ON EXISTING CARRIER INCREASED TO PROVIDE ADA/TAS SEAT HEIGHT OF 17" ABOVE FINISHED FLOOR. EXISTING SEWER WALL STUB-OUT SHALL BE REWORKED FOR RECONNECTION TO ACCOMMODATE NEW SEAT HEIGHT - PROVIDE 4"SS CONNECTION. EXISTING CW STUB-OUT SHALL BE REWORKED FOR RECONNECTION TO ACCOMMODATE NEW SEAT HEIGHT - PROVIDE 1"CW CONNECTION. EXISTING VENT PIPING UTILITY CONNECTION SHALL BE RECONNECTED - PROVIDE 2"V CONNECTION. IF EXISTING CARRIER CANNOT BE ADJUSTED TO INCREASE SEAT HEIGHT; NOTIFY ENGINEER. EXISTING FLUSH VALVE IS EQUIPPED WITH TRAP PRIMER SUPPLY ACCESSORY THAT SHALL BE REINSTALLED TO EXISTING TRAP PRIMER SUPPLY PIPING
- RETAINED WALL-MOUNTED FLUSH VALVE WATER CLOSET AND SEAT SHALL BE REINSTALLED ON EXISTING CARRIER INCREASED TO PROVIDE SEAT HEIGHT OF 15" ABOVE FINISHED FLOOR. EXISTING SEWER WALL STUB-OUT SHALL BE REWORKED FOR RECONNECTION TO ACCOMMODATE NEW SEAT HEIGHT - PROVIDE 4"SS CONNECTION. EXISTING CW STUB-OUT SHALL BE REWORKED FOR RECONNECTION TO ACCOMMODATE NEW SEAT HEIGHT - PROVIDE 1"CW CONNECTION. EXISTING VENT PIPING UTILITY CONNECTION SHALL BE RECONNECTED - PROVIDE 2"V CONNECTION. IF EXISTING CARRIER CANNOT BE ADJUSTED TO INCREASE SEAT HEIGHT; NOTIFY ENGINEER.
- RETAINED WALL-MOUNTED FLUSH VALVE URINAL SHALL BE REINSTALLED ON EXISTING CARRIER INCREASED TO PROVIDE ADA/TAS RIM HEIGHT. EXISTING SEWER WALL STUB-OUT SHALL BE REWORKED FOR RECONNECTION TO ACCOMMODATE NEW RIM HEIGHT - PROVIDE 2"SS CONNECTION. EXISTING CW STUB-OUT SHALL BE REWORKED FOR RECONNECTION TO ACCOMMODATE NEW RIM HEIGHT - PROVIDE 3/4"CW CONNECTION. EXISTING VENT PIPING UTILITY CONNECTION SHALL BE RECONNECTED - PROVIDE 2"V CONNECTION. IF EXISTING CARRIER CANNOT BE ADJUSTED TO INCREASE RIM HEIGHT; NOTIFY ENGINEER.
- RETAINED WALL-MOUNTED FLUSH VALVE URINAL SHALL BE REINSTALLED ON EXISTING CARRIER INCREASED TO PROVIDE RIM HEIGHT OF "XX" ABOVE FINISHED FLOOR. EXISTING SEWER WALL STUB-OUT SHALL BE REWORKED FOR RECONNECTION TO ACCOMMODATE NEW RIM HEIGHT - PROVIDE 2"SS CONNECTION. EXISTING CW STUB-OUT SHALL BE REWORKED FOR RECONNECTION TO ACCOMMODATE NEW RIM HEIGHT - PROVIDE 3/4"CW CONNECTION. EXISTING VENT PIPING UTILITY CONNECTION SHALL BE RECONNECTED - PROVIDE 2"V CONNECTION. IF EXISTING CARRIER CANNOT BE ADJUSTED TO INCREASE RIM HEIGHT; NOTIFY ENGINEER.
- EXTEND 1/2"H/W FROM NEW HW SERVICE EXTENDED ABOVE CEILING TO SERVE REINSTALLED LAVATORIES. PROVIDE SUPPLIES AND STOPS BELOW FIXTURES.
- EXISTING WALL-MOUNTED LAVATORY, FAUCET, SUPPLIES, RISERS, P-TRAP, AND TAILPIECE SHALL BE REINSTALLED ON EXISTING CARRIER INCREASED TO PROVIDE ADA/TAS RIM HEIGHT. RECONNECT TO EXISTING SEWER STUB-OUT, EXISTING WATER STUB-OUT, AND EXISTING VENT. IF EXISTING CARRIER CANNOT BE ADJUSTED TO INCREASE RIM HEIGHT; NOTIFY ENGINEER. PROVIDE 1/2"H/W UTILITY CONNECTION FROM NEW HW EXTENDED OVERHEAD.
- PROVIDE AC-1 10HP AIR COMPRESSOR W/ DRYER. INSTALL ON CONCRETE HOUSEKEEPING PAD W/ CHAMFERED EDGES. ROUTE 1-1/4"CA PIPING UP ALONG WALL AND INTO BUILDING. ROUTE ALL DRAIN LINES TO HUB DRAIN AND TERMINATE W/ AIR GAP.
- INSTALL FLOOR-MOUNTED P-1A WATER CLOSET AND SEAT. EXISTING SEWER WALL STUB-OUT SHALL BE REWORKED FOR RECONNECTION TO ACCOMMODATE NEW CENTERLINE DISTANCE OF 18" FROM ADJACENT WALL; PROVIDE 4"SS CONNECTION. EXISTING CW STUB-OUT SHALL BE REWORKED FOR RECONNECTION TO ACCOMMODATE NEW CENTERLINE DISTANCE - PROVIDE 1"CW CONNECTION. EXISTING VENT PIPING UTILITY CONNECTION SHALL BE RECONNECTED - PROVIDE 2"V CONNECTION. EXISTING FLUSH VALVE IS EQUIPPED WITH TRAP PRIMER SUPPLY ACCESSORY THAT SHALL BE REINSTALLED TO EXISTING TRAP PRIMER SUPPLY PIPING.
- PROVIDE 1-1/2"CW CONNECTION TO EXISTING 3"CW LOCATED IN CRAWLSPACE BELOW.
- PROVIDE 1"H/W TEE TO EXISTING 1"H/W ABOVE CORRIDOR CEILING.
- PROVIDE OPEN HUB DRAIN FOR CONDENSATE DRAINAGE FROM AC-1 EQUIPMENT; TERMINATE ALL DRAIN LINES W/ AIR GAP.
- INTERCEPT EXISTING 4"SS IN CRAWLSPACE BELOW AND EXTEND 2"SS TO NEW HUB DRAIN SERVING AC-1 EQPT.
- INTERCEPT EXISTING VENT PIPING ABOVE CEILING AND PROVIDE 2"V EXTENSION TO SERVE HUB DRAIN.

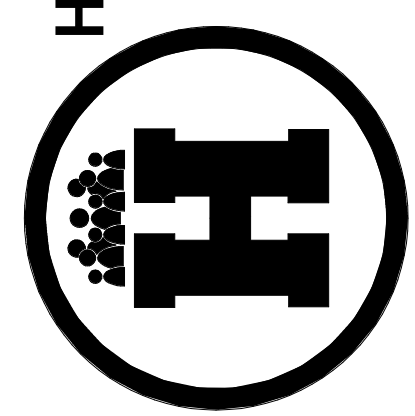
1 PLUMBING PLAN - FIRST FLOOR
1/16" = 1'-0"





ARCHITECTURA S.A., INC.
ARCHITECTURE INTERIOR DESIGN PLANNING
17038 REDLAND RD., SUITE 101, SAN ANTONIO, TEXAS 78247
t. 210.384.8200 f. 210.319.3555
architecturasa@yahoo.com

HISD CAREER TECHNOLOGY EDUCATION (CTE)
HARLANDALE INDEPENDENT SCHOOL DISTRICT
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SAN ANTONIO, TX 78221



Drawn By: BRM
Checked By: DRG
Job Number: 2023.113

ENLARGED WASTE & VENT PLANS

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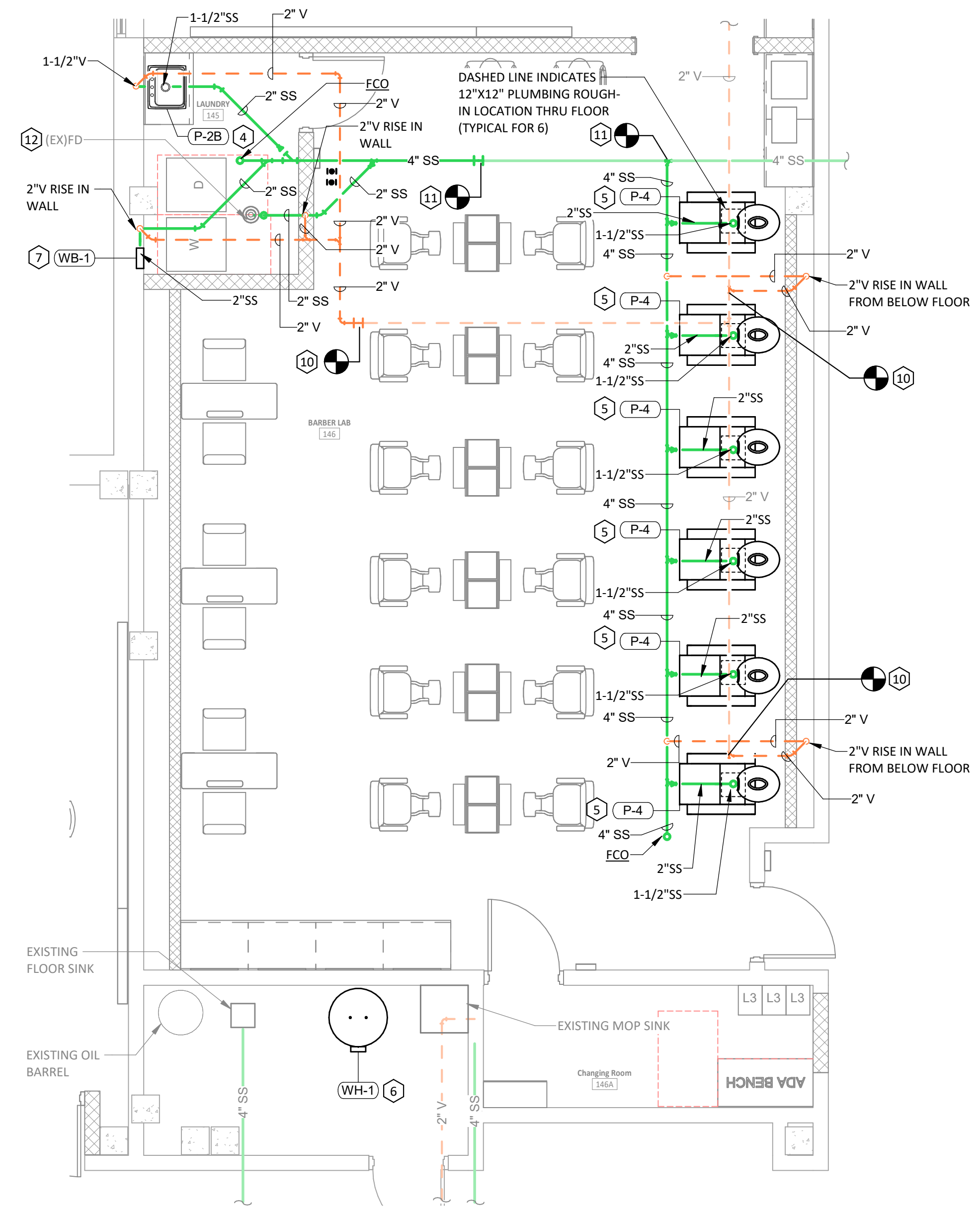
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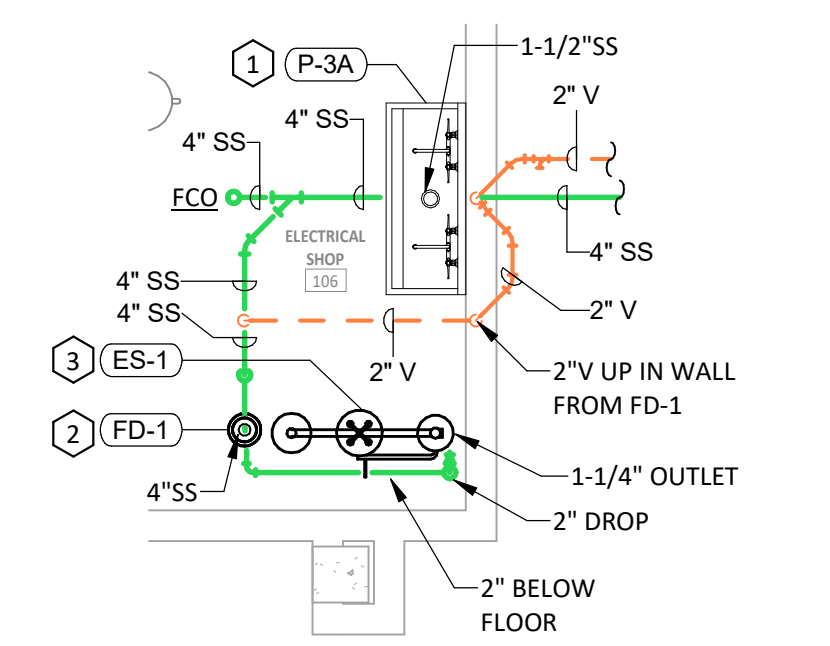
P-2.1

PLUMBING NEW WORK KEYED NOTES, SHEET P-2.1:

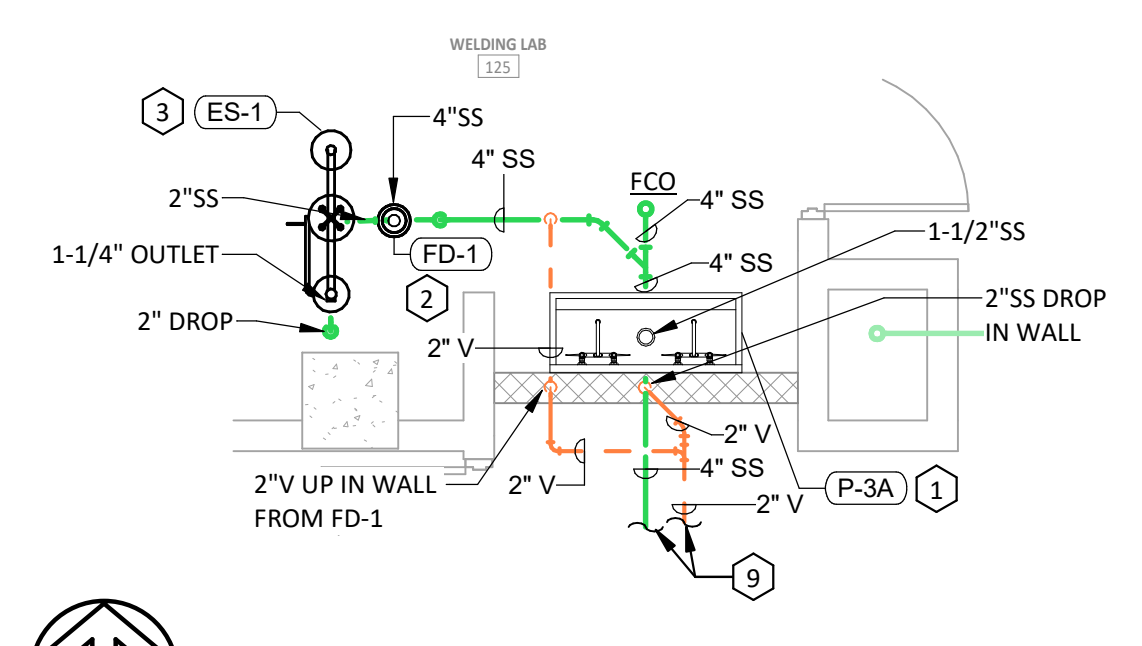
- PROVIDE P-3A HAND WASH TROUGH SINK; COORDINATE RIM HEIGHT W/ ARCHITECT. PROVIDE 1-1/2"SS DRAIN CONNECTION TO 2"SS DROP IN WALL WITH 2"V RISER ROUTED IN WALL. PROVIDE 1/2"CW AND 1/2"HW TO EACH FAUCET FROM NEW UTILITY DROPS IN WALL. PROVIDE WASTE TRAP PRIMER CONNECTION AND ROUTE TO FD-1 TRAP PRIMER CONNECTION.
- PROVIDE FD-1 FLOOR DRAIN. PROVIDE 4"SS UTILITY CONNECTION W/ FULL-SIZE TRAP AND 1/2" TRAP PRIMER CONNECTION FROM P-3A WASTE TRAP PRIMER CONNECTION.
- PROVIDE ES-1 EMERGENCY EYEWASH/SHOWER. PROVIDE 1-1/4" TEMPERED WATER INLET AND 1-1/4" NPT FEMALE DRAIN OUTLET. ROUTE 1-1/4" DRAIN TO TIE-IN TO 4" TAILPIECE OF FD-1; SEE P/4.1 FOR EMERGENCY SHOWER/EYEWASH DETAIL.
- PROVIDE P-2B SINK AND FAUCET FIXTURE IN NEW COUNTERTOP; PROVIDE 1/2"CW, 1/2"HW, 1-1/2"SS, AND 1-1/2"V UTILITY CONNECTIONS.
- PROVIDE P-4 SHAMPOO BOWL; PROVIDE 1/2"CW, 1/2"HW, 1-1/2"SS, AND 1-1/2"V UTILITY CONNECTIONS.
- PROVIDE WH-1 ELEC. WATER HEATER ON EXISTING CONCRETE HOUSEKEEPING PAD; PROVIDE 3/4"CW AND 3/4"HW UTILITY CONNECTIONS TO EXISTING UTILITIES ALONG WALL; PROVIDE FULL-SIZE DISCHARGE TO T&P RELIEF DISCHARGE AND DRAIN LINE DOWN TO ABOVE RIM OF EXISTING FLOOR SINK.
- PROVIDE WB-1 WASHING MACHINE WALL BOX; PROVIDE 1/2"CW, 1/2"HW, 2"SS, AND 2"V CONNECTIONS; SEE DETAIL 8/P4.1 FOR INSTALLATION DETAIL.
- PROVIDE P-2A SINK AND FAUCET FIXTURE IN NEW COUNTERTOP; PROVIDE 1/2"CW, 1/2"HW, 1-1/2"SS, AND 1-1/2"V UTILITY CONNECTIONS. CONTRACTOR SHALL PROVIDE ST-1 SOLIDS TRAP AT WASTE OUTLET OF P-2A SINK FOR SOLIDS RECOVERY; PIPE TO 1-1/2"SS STUB-OUT IN WALL WITH 2"V RISING IN WALL.
- EXTEND 4"SS TO EXISTING 4"SS LOCATED IN CRAWLSPACE BELOW RESTROOMS AND PROVIDE CONNECTION; EXTEND 2"V PIPING ABOVE CEILING TO TIE-IN TO EXISTING 2"V PIPING ROUTED TO EXISTING 4"VTR AND PROVIDE CONNECTION.
- PROVIDE 2"V CONNECTION TO EXISTING 2"V PIPING ABOVE CEILING.
- PROVIDE 4"SS TO EXISTING 4"SS PIPING IN CRAWL SPACE.
- PROVIDE 2"SS CONNECTION W/ 2"VENT PIPING RISING IN NEW WALL FOR EXISTING FLOOR DRAIN.
- PROVIDE 2"SS TO EXISTING 4"SS PIPING IN CRAWL SPACE.
- ENSURE EXISTING VENT PIPING SERVING EXISTING FLOOR DRAIN REMAINS ACTIVE; EXISTING VENT PIPING IS NOT SHOWN IN ITS ENTIRETY.



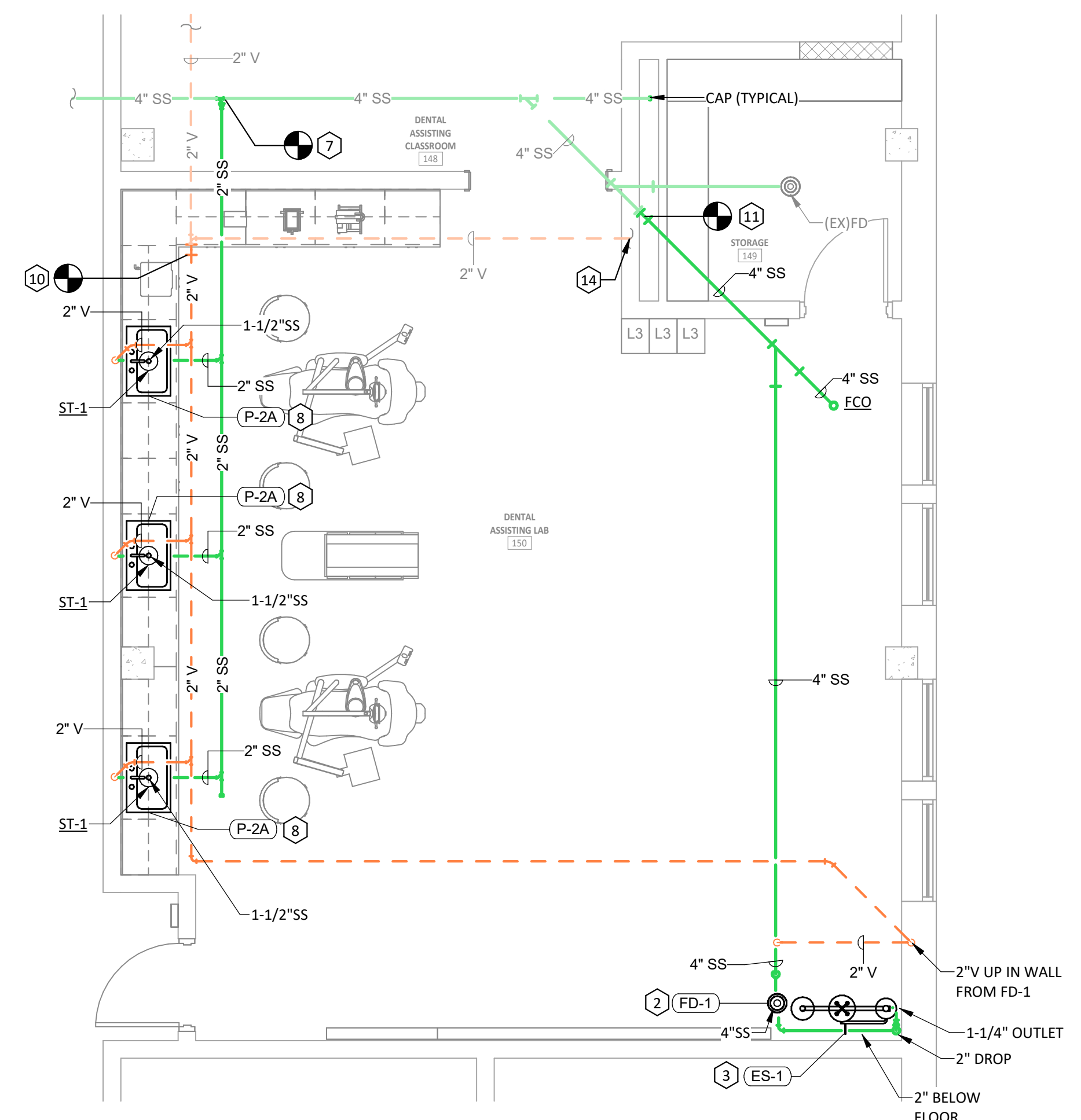
4 ENLARGED WASTE & VENT PLAN - BARBER LAB 146
Plumbing 1/4" = 1'-0"



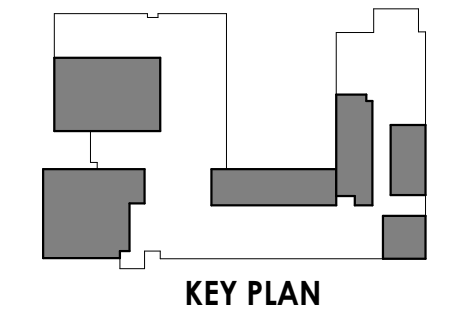
2 ENLARGED WASTE & VENT PLAN - ELECTRICAL SHOP 106
Plumbing 1/4" = 1'-0"

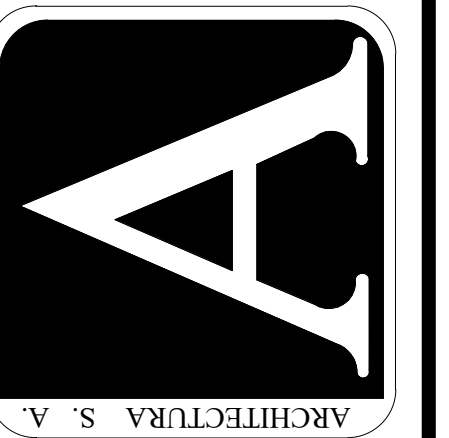


1 ENLARGED WASTE & VENT PLAN - WELDING LAB 125
Plumbing 1/4" = 1'-0"



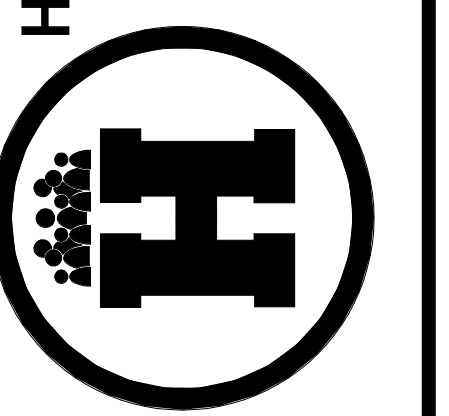
3 ENLARGED WASTE & VENT PLAN - DENTAL LAB 150
Plumbing 1/4" = 1'-0"





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ARCHITECTURE INTERIOR DESIGN PLANNING
17038 REDLAND RD., SUITE 101, SAN ANTONIO, TEXAS 78247
t. 210.384.8200 f. 210.319.3555
architecturass@yahoo.com

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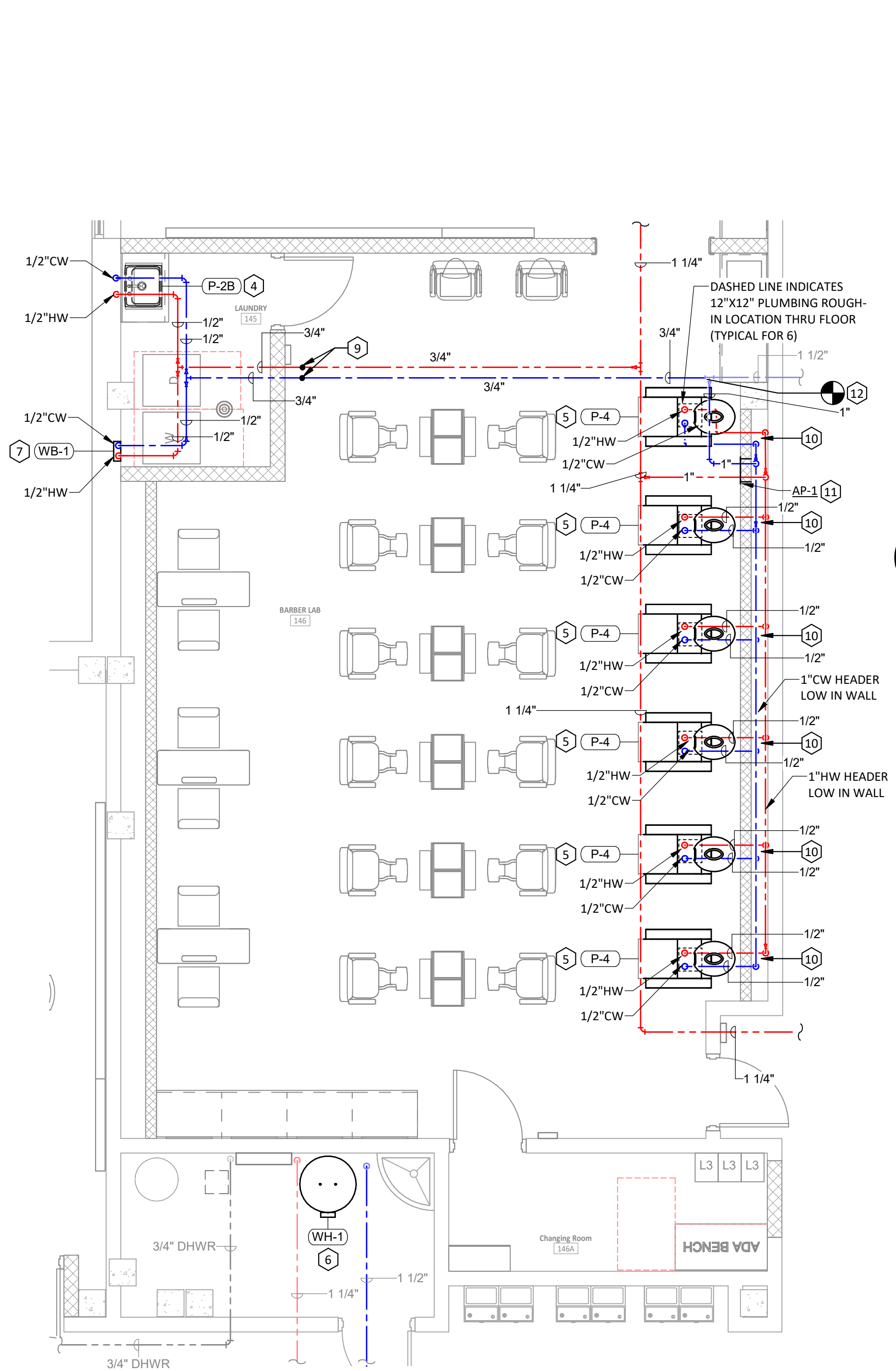
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Checked By: DRG
Job Number: 2023.113

ENLARGED DOMESTIC WATER

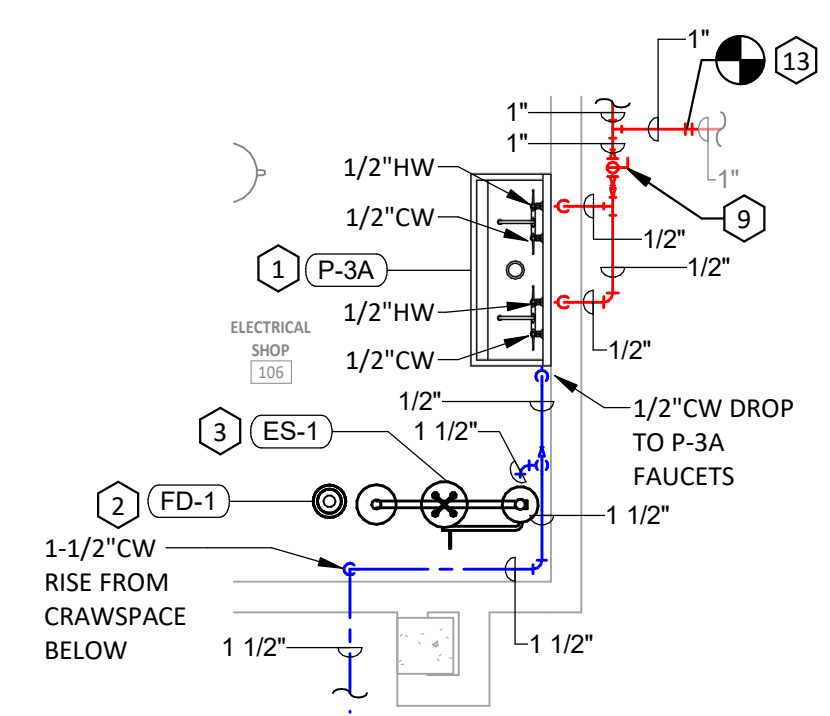
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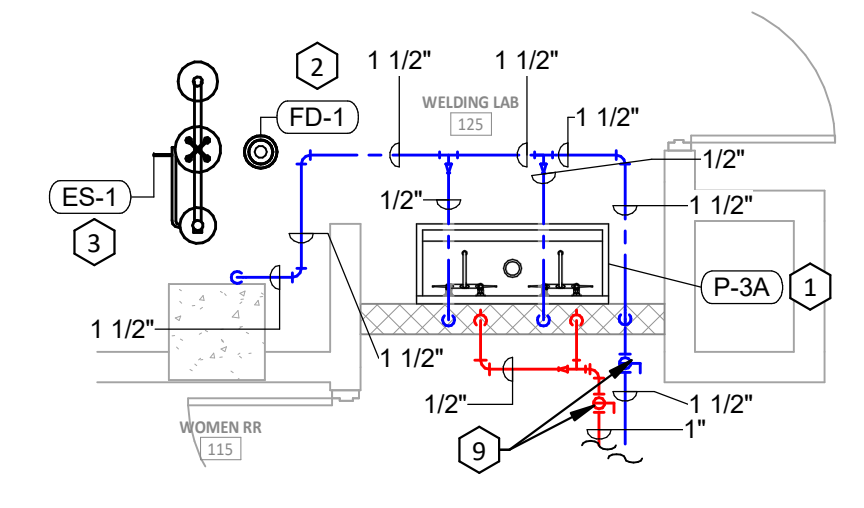
P-2.2



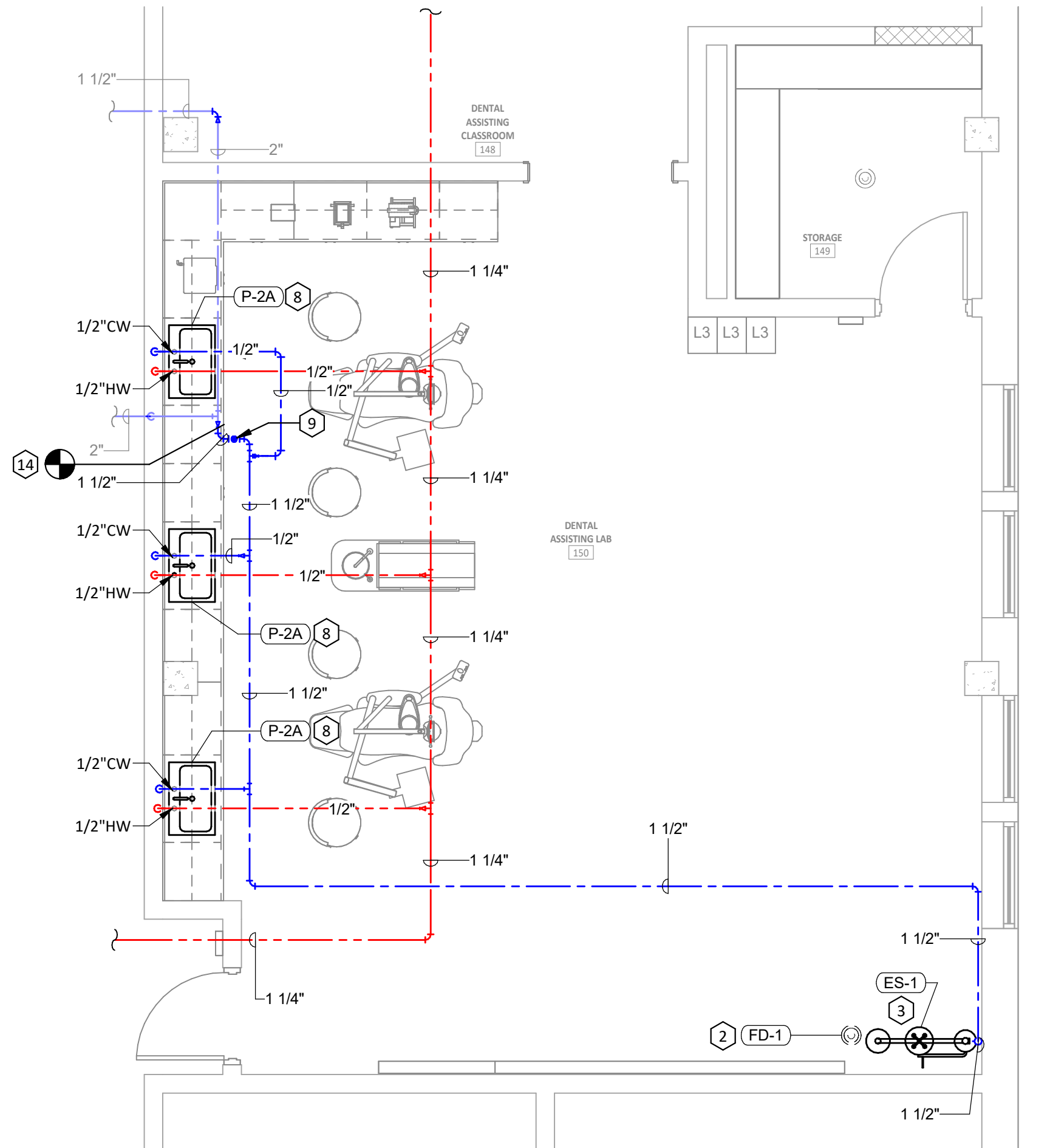
4 ENLARGED DOMESTIC WATER PLAN - BARBER LAB 146
Plumbing 1/4" = 1'-0"



2 ENLARGED DOMESTIC WATER PLAN - ELECTRICAL SHOP 106
Plumbing 1/4" = 1'-0"



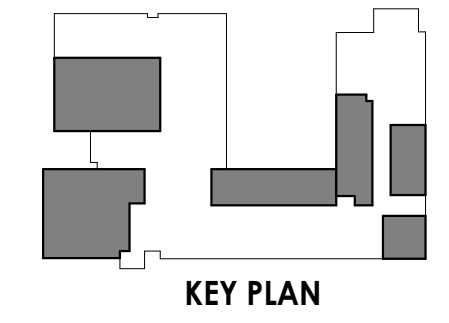
1 ENLARGED DOMESTIC WATER PLAN - WELDING LAB 125
Plumbing 1/4" = 1'-0"

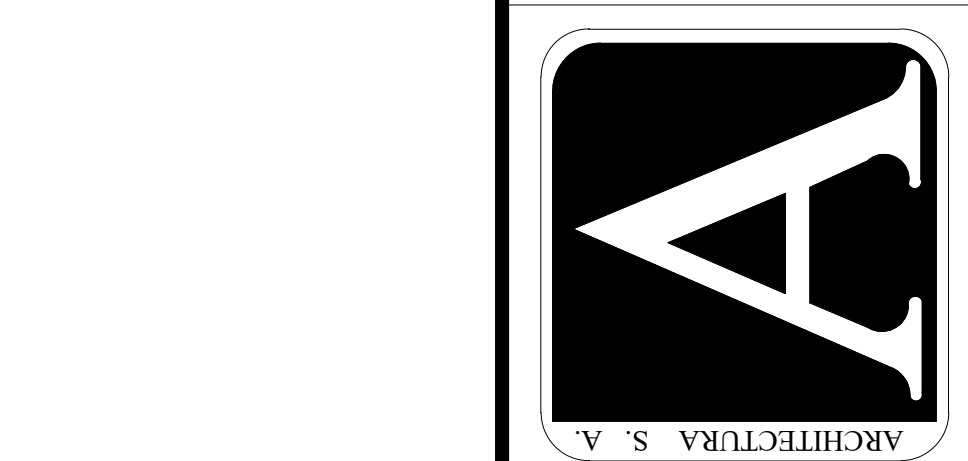


3 ENLARGED DOMESTIC WATER PLAN - DENTAL LAB 150
Plumbing 1/4" = 1'-0"

PLUMBING NEW WORK KEYED NOTES, SHEET P-2.2:

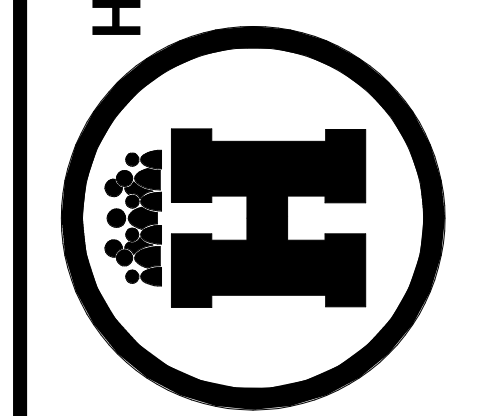
- 1 PROVIDE P-3A HAND WASH TROUGH SINK; COORDINATE RIM HEIGHT W/ ARCHITECT. PROVIDE 1/2" CW AND 1/2" HW TO EACH FAUCET.
- 2 PROVIDE FD-1 FLOOR DRAIN. PROVIDE 1/2" TRAP PRIMER CONNECTION FROM ES-1 WASTE TRAP PRIMER CONNECTION.
- 3 PROVIDE ES-1 EMERGENCY EYEWASH/SHOWER. PROVIDE 1-1/2" WATER INLET.
- 4 PROVIDE P-2B SINK AND FAUCET FIXTURE IN NEW COUNTERTOP; PROVIDE 1/2" CW AND 1/2" HW UTILITY CONNECTIONS.
- 5 PROVIDE P-4 SHAMPOO BOWL; PROVIDE 1/2" CW AND 1/2" HW UTILITY CONNECTIONS.
- 6 PROVIDE WH-1 ELEC. WATER HEATER IN PLACE OF DEMOLISHED ELEC. WATER HEATER. CONTRACTOR SHALL PROVIDE NEW CONCRETE HOUSEKEEPING PAD; PROVIDE 1-1/4" CW AND 1-1/4" HW UTILITY CONNECTIONS TO EXISTING UTILITIES ALONG WALL; PROVIDE FULL-SIZE DISCHARGE TO T&P RELIEF DISCHARGE AND DRAIN LINE DOWN TO ABOVE RIM OF MOP SINK. WALL MOUNT EXPANSION TANK. ADJUST AND BALANCE EXISTING RECIRCULATION SYSTEM AND BALANCING VALVES.
- 7 PROVIDE WB-1 WASHING MACHINE WALL BOX; PROVIDE 1/2" CW AND 1/2" HW CONNECTIONS; SEE DETAIL 8/P4.1 FOR INSTALLATION DETAIL.
- 8 PROVIDE P-2A SINK AND FAUCET FIXTURE IN NEW COUNTERTOP; PROVIDE 1/2" CW AND 1/2" HW UTILITY CONNECTIONS.
- 9 PROVIDE LINE-SIZE FULL PORT, QUARTER TURN BALL VALVES ON WATER PIPING; ENSURE ACCESSIBILITY ABOVE CEILING AND TAG PER SPECIFICATIONS.
- 10 1/2" CW AND 1/2" HW DROPS THRU FLOOR FROM HEADERS AND TURN TO RISE UP IN 12" X 12" ROUGH-IN LOCATION; INSULATE ALL PIPING AND FITTINGS EXPOSED IN CRAWLSPACE.
- 11 INSTALL AP-1 FOR ACCESS TO SHUT-OFF VALVES TO ISOLATE 1" CW AND 1" HW HEADERS IN WALL; COORDINATE HEIGHT W/ ARCHITECT.
- 12 INTERCEPT EXISTING 1-1/2" CW LINE ABOVE CEILING AND PROVIDE 3/4" CW TO LAUNDRY 145 AND 1" CW TO HEADERS IN WALL BEHIND SHAMPOO BOWL FIXTURES.
- 13 PROVIDE 1" HW EXTENSION TO EXISTING 1" HW ABOVE CORRIDOR CEILING.
- 14 PROVIDE 1-1/2" CW CONNECTION TO EXISTING 2" CW ABOVE CEILING.





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 t. 210.384.8200 f. 210.319.3555
 architecturasaa@yahoo.com

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PLUMBING SCHEDULES

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Date: 04/24/23
 Drawing No:

P-3.1

PLUMBING FIXTURE SCHEDULE

| MARK | GENERAL DESCRIPTION | MINIMUM ROUGH-IN SIZES | | | | MANUFACTURER | MODEL | DESCRIPTION |
|------|--|------------------------|-----------|--------|------|---|---|---|
| | | WASTE | VENT | C.W. | H.W. | | | |
| P-2A | SINGLE COMPARTMENT DROP-IN SINK DENTAL LAB | 2" | 1-1/2" | 1/2" | 1/2" | ELKAY T&S BRASS McGUIRE SYMMONS LEONARD | #LRAD312265, #LK-35B #B-0892-01-CR2 #LFBV2-02 #LL-71B #170-LF-BP-BKT | SINGLE COMPARTMENT SINK: ELKAY "LUSTERTONE" #LRAD312265, 31" X 22" X 6.5"D, 18 GA. STAINLESS STEEL, SELF-RIMMING; 4" CENTERS, TWO-HOLE DRILLING. FITTING: T&S #B-0892-01-CR, DECK MOUNTED FAUCET WITH CERAMIC CARTRIDGES, 10-5/16" SPOUT, 4" WRIST BLADE HANDLES AND 1.5 GPM AERATOR. PROVIDE WITH: ELKAY MODEL #LK-35B STAINLESS STEEL BASKET STRAINER AND BODY, WITH 1 1/2" OFFSET TAILPIECE. MCGUIRE 1/2" NPT X 3/8" COMPRESSION 1/4 TURN BALL VALVE STOPS, CHROME PLATED BRASS ESCUTCHEONS AND BRAIDED STAINLESS STEEL FLEXIBLE SUPPLY RISERS WITH SYMMONS #LL-71B SCREEN AND CHECK VALVE ASSEMBLIES. THERMOSTATIC MIXING VALVE: LEONARD #170-LF-BP-BKT; LEAD FREE, 0.25 MIN. FLOW, 90-140F ADJUSTMENT, WITH COLD WATER BYPASS, MOUNTING BRACKET, INTEGRAL CHECK VALVES, LOCKING ADJUSTMENT CAP. MEETING ASSE 1070. |
| P-2B | SINGLE COMPARTMENT DROP-IN SINK LAUNDRY ROOM | 2" | 1-1/2" | 1/2" | 1/2" | ELKAY T&S BRASS McGUIRE SYMMONS LEONARD | #LRADQ221965, #LK-35B #B-0892-01-CR #8912CF, #1000WC, 2 - #LFBV2-02 #LL-71B #170-LF-BP-BKT | SINGLE COMPARTMENT SINK: ELKAY "LUSTERTONE" #LRADQ221965, 22" X 19-1/2" X 6.5"D, 18 GA. STAINLESS STEEL, SELF-RIMMING; 4" CENTERS, TWO-HOLE DRILLING. FITTING: T&S #B-0892-01-CR, DECK MOUNTED FAUCET WITH CERAMIC CARTRIDGES, 10-5/16" SPOUT, 4" WRIST BLADE HANDLES AND 1.5 GPM AERATOR. PROVIDE WITH: ELKAY MODEL #LK-35B STAINLESS STEEL BASKET STRAINER AND BODY, WITH 1 1/2" OFFSET TAILPIECE MCGUIRE 1/2" NPT X 3/8" COMPRESSION 1/4 TURN BALL VALVE STOPS, CHROME PLATED BRASS ESCUTCHEONS AND BRAIDED STAINLESS STEEL FLEXIBLE SUPPLY RISERS WITH SYMMONS #LL-71B SCREEN AND CHECK VALVE ASSEMBLIES. THERMOSTATIC MIXING VALVE: LEONARD #170-LF-BP-BKT; LEAD FREE, 0.25 MIN. FLOW, 90-140F ADJUSTMENT, WITH COLD WATER BYPASS, MOUNTING BRACKET, INTEGRAL CHECK VALVES, LOCKING ADJUSTMENT CAP. MEETING ASSE 1070. |
| P-3A | HAND WASH TROUGH SINK | 1-1/2" | 1-1/2" | 1/2" | 1/2" | ELKAY LEONARD | #EWMA4820C #LK-18B 2 - #LK940GN05T4H #170-LF-BP-BKT | ELKAY #EWMA4820C 14 GAUGE 304-STAINLESS STEEL, WALL HUNG SINK; 48" X 20" X 18" WITH 45" X 16-1/2" X 8" DEEP BASIN; BUFFED SATIN FINISH. #LK-18B STAINLESS STEEL BASKET STRAINER AND 1-1/2" TAILPIECE. 2 - #LK940GN05T4H BACKSPLASH MOUNTED DUAL TEMPERATURE SINK FITTING WITH LEVER HANDLES AND 5-1/8" SWIVEL GOOSNECK SPOUT WITH 2.2 GPM FLOW STREAM REGULATOR. THERMOSTATIC MIXING VALVE: LEONARD #170-LF-BP-BKT; LEAD FREE, 0.25 MIN. FLOW, 90-140F ADJUSTMENT, WITH COLD WATER BYPASS, MOUNTING BRACKET, INTEGRAL CHECK VALVES, LOCKING ADJUSTMENT CAP. MEETING ASSE 1070. |
| P-4 | SHAMPOO BOWL | 2" | 1-1/2" | 1/2" | 1/2" | McGUIRE SYMMONS | #8912CF, #1000WC, 2 - #LFBV2-02 #LL-71B | MCGUIRE 1/2" NPT X 3/8" COMPRESSION 1/4 TURN BALL VALVE STOPS, CHROME PLATED BRASS ESCUTCHEONS AND BRAIDED STAINLESS STEEL FLEXIBLE SUPPLY RISERS WITH SYMMONS #LL-71B SCREEN AND CHECK VALVE ASSEMBLIES. |
| WB-1 | WASHING MACHINE CONNECTION | 2" | 1-1/2" | 1/2" | 1/2" | GUY GRAY - IPS | #SSWB3 | GUY GRAY #SSWB3: STAINLESS STEEL WASHING MACHINE OUTLET BOX WITH LEAD-FREE VALVES, WATER HAMMER ARRESTERS AND 2" DRAIN CONNECTION. PRODUCT CODE #82327. |
| ES-1 | EMERGENCY SHOWER/FACE WASH (ADULT) | 1-1/4" | --- | 1-1/4" | --- | GUARDIAN | #GBF1909 | 'GUARDIAN #GBF1909 BARRIER-FREE SAFETY STATION WITH WIDE AREA EYE/FACE WASH, 10" ORANGE ABS SHOWER HEAD WITH 20 GPM FLOW CONTROL, STAINLESS STEEL EYE/FACE BOWL, SCHEDULE 40 GALVANIZED STEEL PIPE CONSTRUCTION WITH ORANGE POLYETHYLENE COVERS, 4 SPRAY HEADS WITH FLIP TOP COVERS. |
| FD-1 | FLOOR DRAIN FD-1 | 4" | 2" | --- | --- | ZURN | #ZN415B-8" STRAINER | ZURN #ZN415B-NL, TYPE 'B' NICKEL BRONZE STRAINER, 8" ROUND TOP, DURO-COATED CAST IRON BODY, MEDIUM DUTY DRAIN, WITH SEDIMENT BUCKET AND NEO-LOC OUTLET. |
| HR-1 | COMPRESSED AIR HOSE REEL | --- | --- | --- | --- | HANNAY | #N716-19-20-10.5J | 'HOSE REEL WITH 50', 3/8" HOSE, AND MILTON NO. 718 (PARKER B23E) (GRAINGER STOCK NO. 30N266), AIR HOSE COUPLER AND ADJUSTABLE HOSE STOP. 95 LBS. |
| ST-1 | SOLIDS TRAP | 1-1/2" | --- | --- | --- | GLECO | #GT-19/64 | PROVIDE WITH FLEXIBLE CONNECTOR BETWEEN INLET PIPE AND INLET SWIVEL JOINT. |
| FCO | FLOOR CLEANOUT | SEE PLANS | SEE PLANS | --- | --- | ZURN | #ZN1400 | ZURN #ZN1400 ADJUSTABLE DURA COATED CAST IRON W/ POLISHED NICKEL BRONZE LIGHT-DUTY TOP. |

NOTE: PLUMBING FIXTURES AND FITTINGS EQUAL TO THE LISTED PRODUCT OF OTHERS WILL BE CONSIDERED.

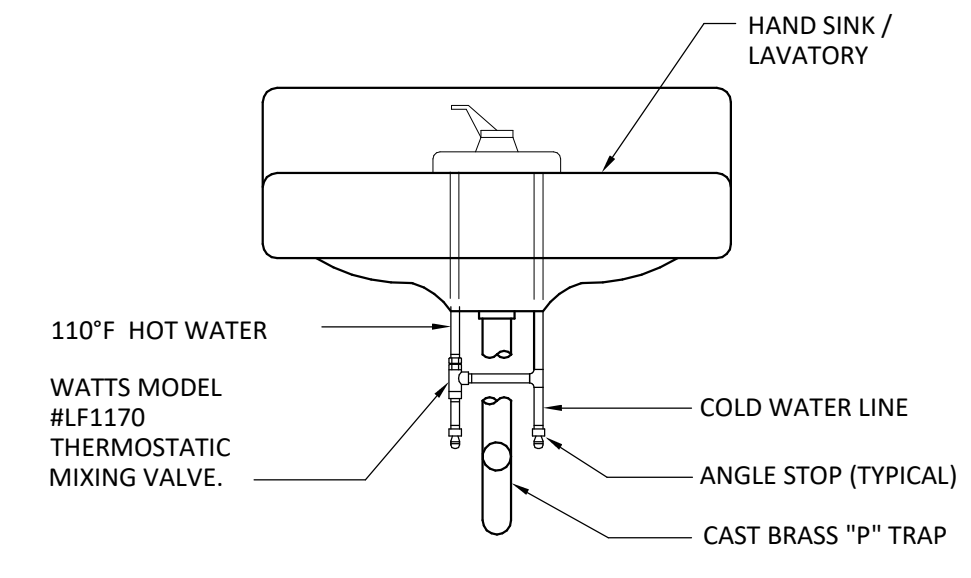
DOMESTIC WATER HEATER SCHEDULE

| MARK | EWH-1 |
|---|----------------------|
| DESCRIPTION | ELEC. WATER HEATER |
| GPH RECOVERY @ 100 F RISE | 123 |
| SAFETY/RELIEF VALVE | FACTORY INSTALLED |
| ASME WORKING PRESSURE | 150 PSI |
| DESIGN OPERATING PRESSURE | 80 PSI |
| MOTOR | - |
| ELEMENT (KW/AMP/V/PH) | 30KW/36.1A/480V/3 PH |
| SHIPPING WEIGHT (LBS.) | 390 |
| STORAGE CAPACITY (GALS.) | 119 |
| NOTES | 1, 2, 3, 4 |
| REFERENCE | A.O. SMITH |
| MODEL NO. | DVE-120-30 |
| DWH SCHEDULE NOTES: | |
| 1 6-YEAR TANK WARRANTY. | |
| 2 MODIFY EXISTING CONCRETE HOUSEKEEPING PAD TO ACCOMMODATE LARGER WATER HEATER. | |
| 3 WITH INCOLOY LOW DENSITY ELEMENTS. | |
| 4 PROVIDE WATTS #DETA-30 EXPANSION TANK (10 GALLON, 125 PSI) W/ BRACKET FOR WALL INSTALLATION | |

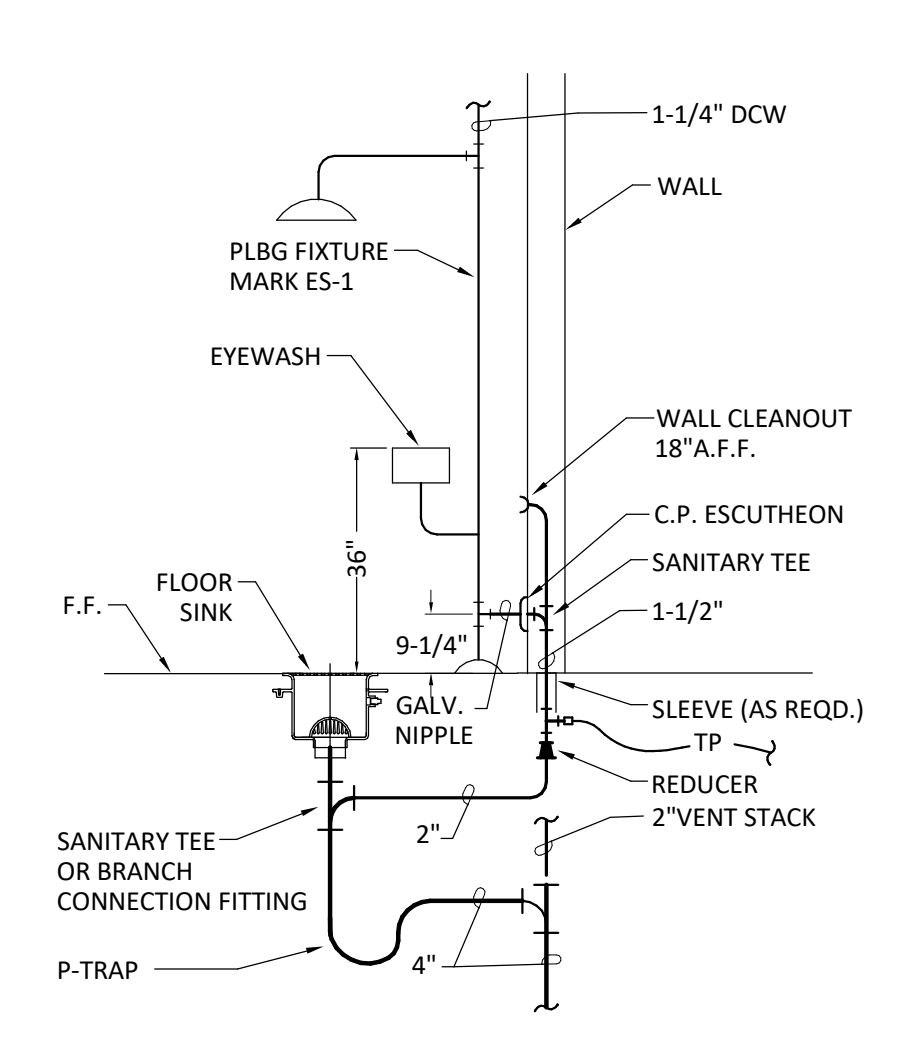
COMPRESSED AIR EQUIPMENT

| DESCRIPTION | MANUFACTURER MODEL NO. | ELECTRICAL | FURNISHED BY/ INSTALLED BY |
|---|-------------------------------|------------|----------------------------|
| COMPRESSOR : 7.5 HP, 36.69 ACFM @ 125 PSI, ENCLOSED TANKMOUNT WITH DRYER/FILTER; 120 GALLON TANK MTD., OUTDOOR MODIFIED ENCLOSURE, HIGH DUST INLET FILTER, AUTOMATIC DRAIN VALVE, POWER OUTAGE RESTART OPTION, HIGH AMBIENT RATING AND START-UP KIT | INGERSOLL RAND R7.5i-A125 | 460V/3PH | CONTRACTOR |
| DRYER: 41F DEWPOINT, CYCLING DRYER, ELEC. NO LOSS DRAIN | INGERSOLL RAND DA127ECA10N | 115V/1PH | CONTRACTOR |
| PRE-FILTER: GENERAL PURPOSE FILTER W/ AUTO-DRAIN & 1" NPT INLET/OUTLET; FLOW RATING: 88SCFM | INGERSOLL RAND FA150IG | ... | CONTRACTOR |
| POST-FILTER: HIGH EFFICIENCY FILTER W/ AUTO-DRAIN & 1" NPT INLET/OUTLET; FLOW RATING: 88SCFM | INGERSOLL RAND FA150IH | ... | CONTRACTOR |
| OIL-WATER SEPARATOR: 175SCFM MAX CAPACITY | INGERSOLL RAND POLYSEP PSG-15 | ... | CONTRACTOR |

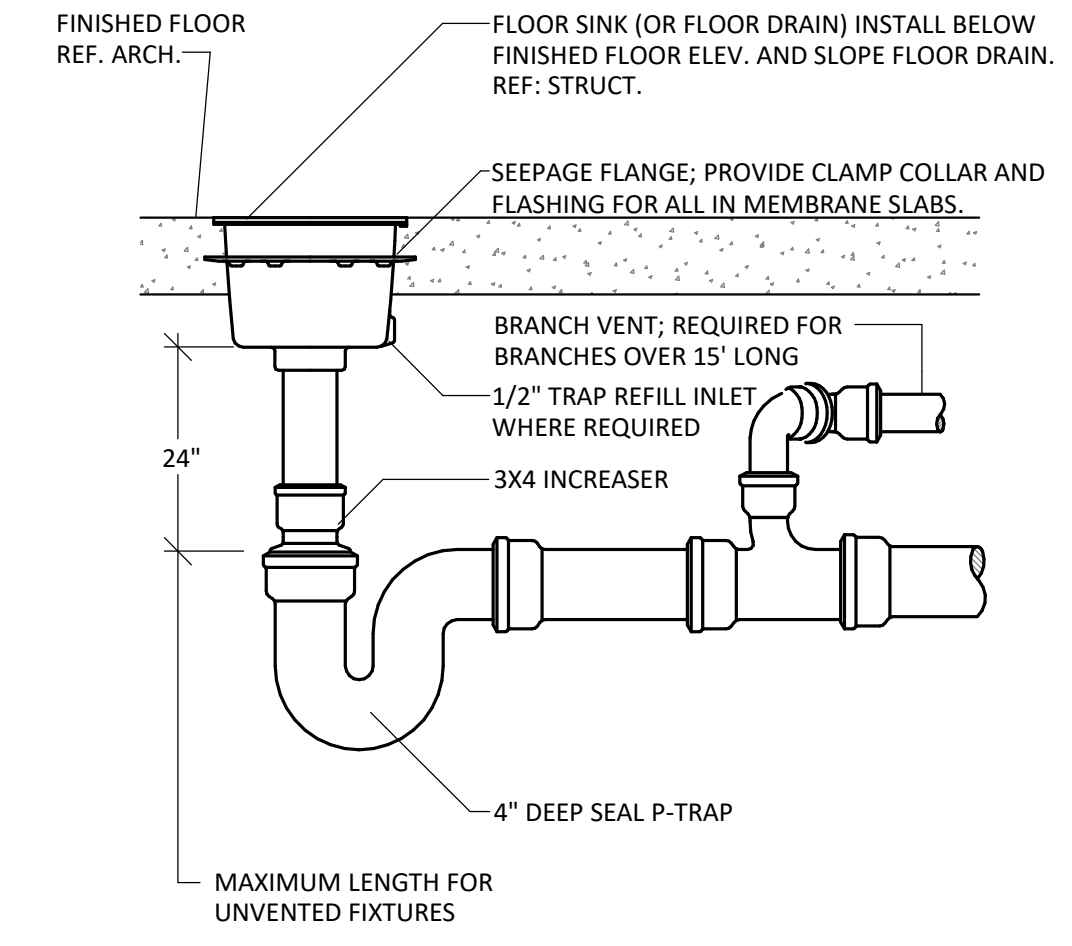
| No. | DATE | DESCRIPTION |
|-----|------|-------------|
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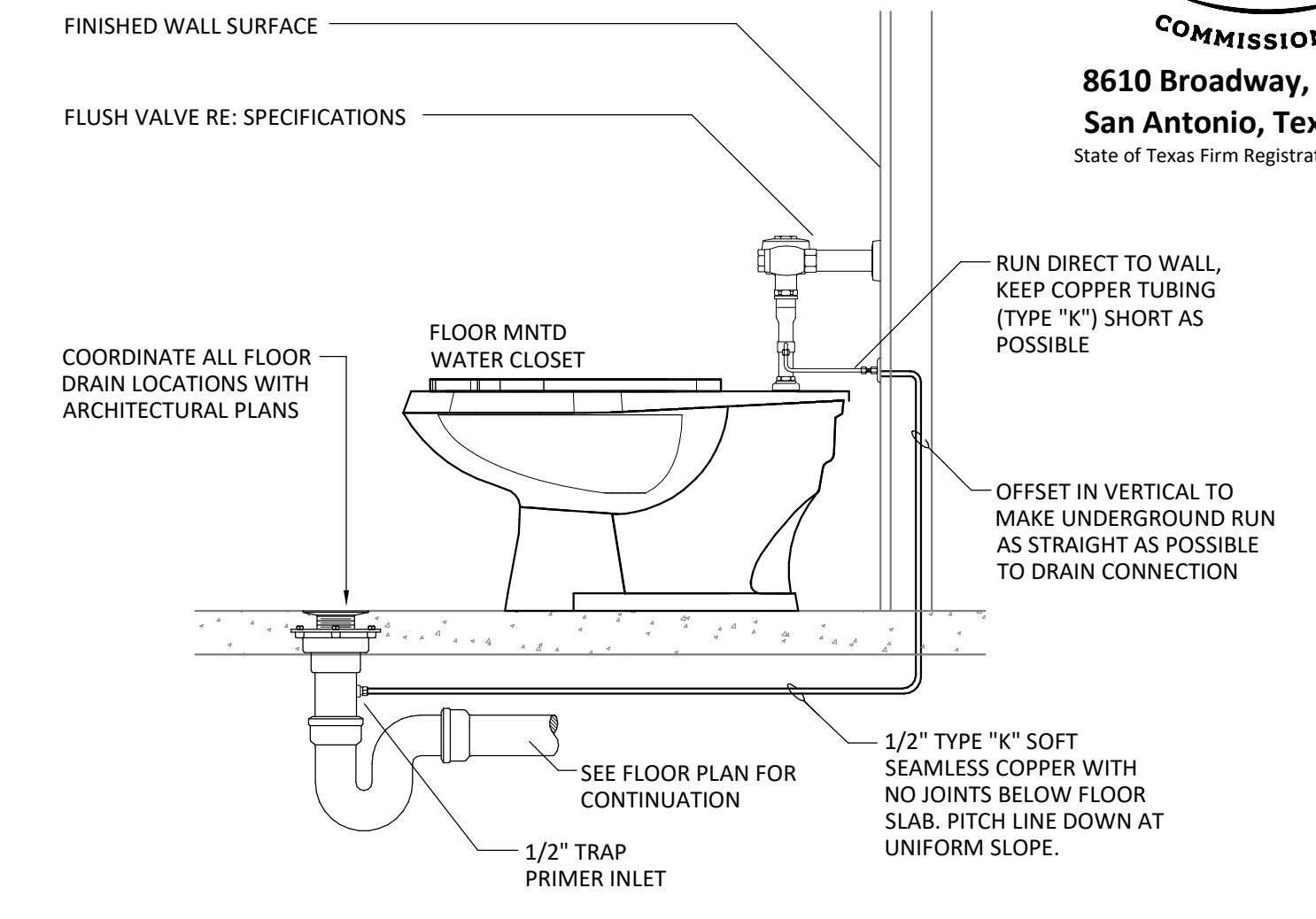
1 LAV. MIXING VALVE DETAIL
PLUMBING NO SCALE



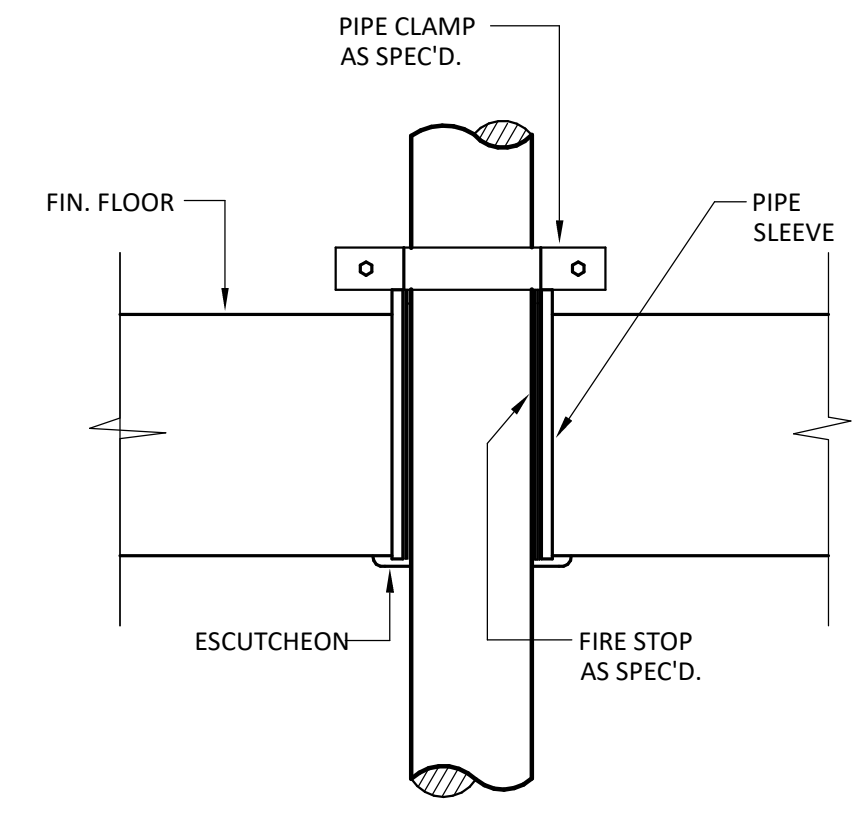
2 EMERGENCY SHOWER / EYEWASH DETAIL
PLUMBING NO SCALE



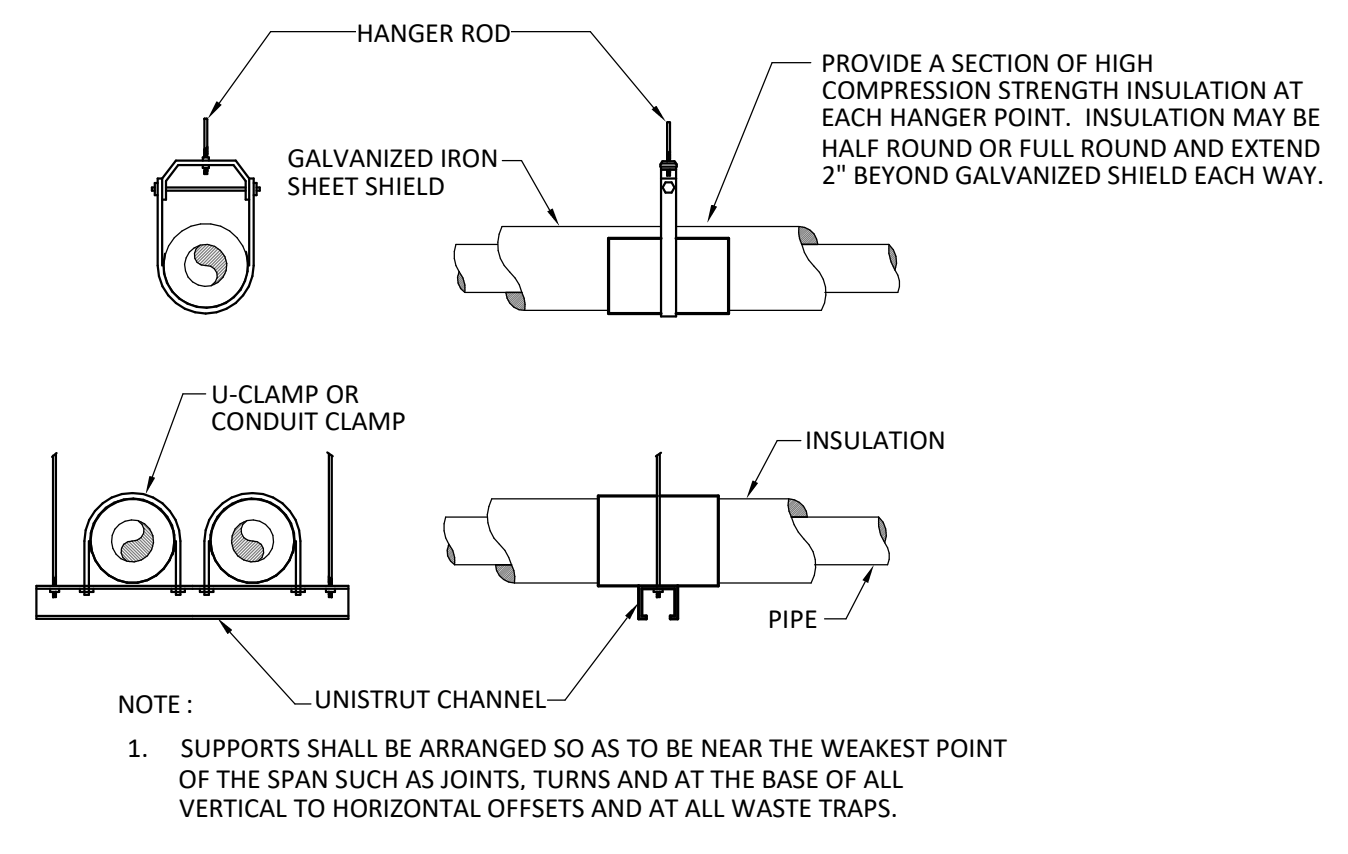
3 FLOOR DRAIN DETAIL
PLUMBING NO SCALE



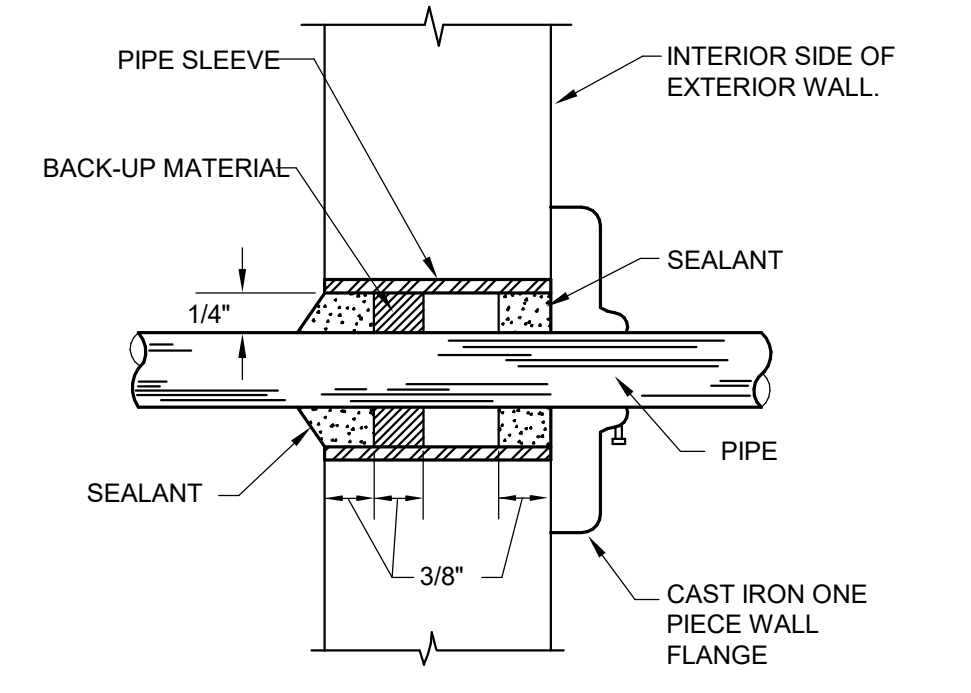
4 FLUSH VALVE TRAP PRIMER DETAIL
PLUMBING NO SCALE



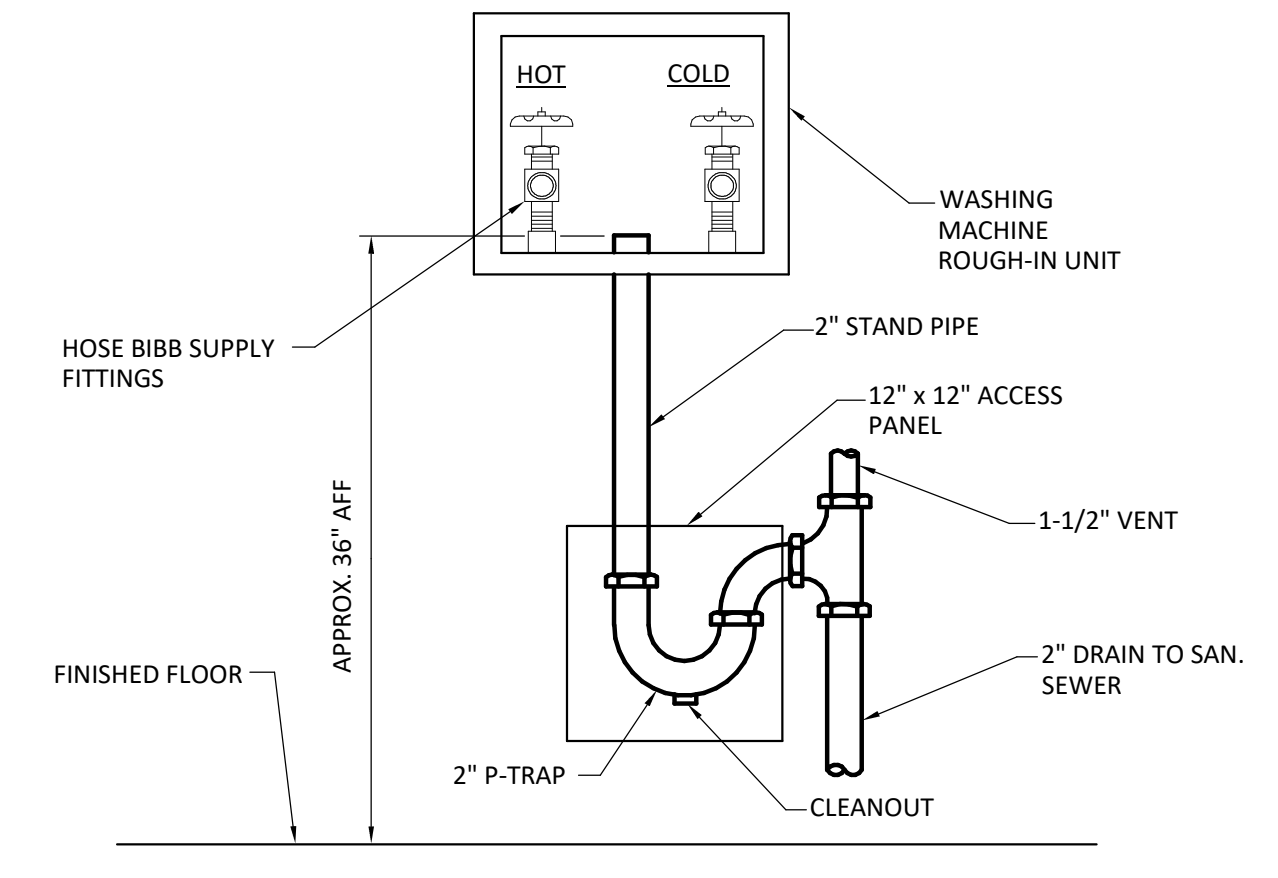
5 PIPE THRU FLOOR DETAIL
PLUMBING NO SCALE



6 PIPE SUPPORT HANGER DETAIL
PLUMBING NO SCALE

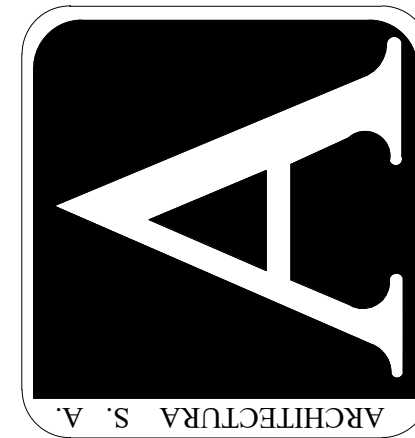


7 PIPE THRU WALL DETAIL
MECHANICAL NO SCALE



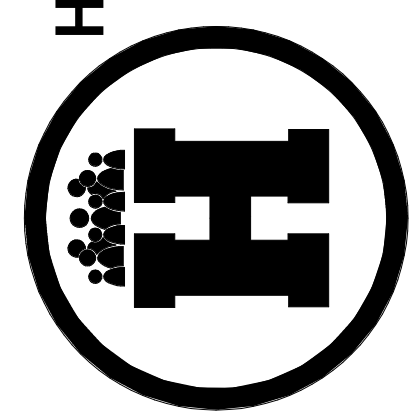
8 WASHING MACHINE HOOK-UP DETAIL
PLUMBING NO SCALE

ENGINEERING &
SKYE MEP
COMMISSIONING
8610 Broadway, Suite 415
San Antonio, Texas 78217
State of Texas Firm Registration No. F-19468



ARCHITECTURA S.A., INC.
ARCHITECTURE INTERIOR DESIGN PLANNING
17038 REDLAND RD., SUITE 101, SAN ANTONIO, TEXAS 78247
t. 210.384.8200 f. 210.319.3555
architecturass@yahoo.com

**HISD CAREER TECHNOLOGY
EDUCATION (CTE)**
HARLANDALE INDEPENDENT SCHOOL DISTRICT
519 W HARDING BLVD.
SAN ANTONIO, TX 78221



Drawn By: BRM
Checked By: DRG
Job Number: 2023.113

OVERALL FIRE PROTECTION DEMOLITION PLAN

| No. | DATE | DESCRIPTION |
|-----|------|-------------|
| | | |
| | | |
| | | |

Date: 04/24/23

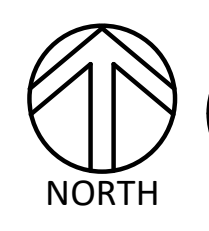
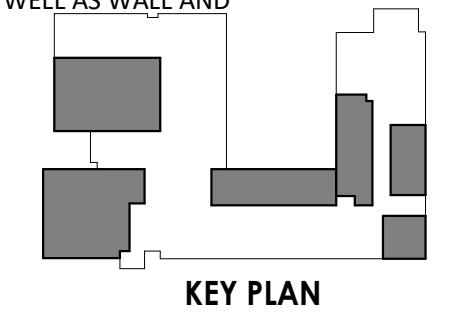
Drawing No: **FPD-1.0**

FIRE PROTECTION GENERAL NOTES:

- FULL CONSIDERATION SHALL BE GIVEN TO ARCHITECTURAL AESTHETICS OF THE FACILITY. HEADS SHALL BE LOCATED IN CEILINGS, TRIM, OR OTHER ARCHITECTURAL FEATURES TO MINIMIZE ADVERSE APPEARANCES OR CONFLICTS. HEADS SHALL BE SYMMETRICALLY LOCATED WHERE FEASIBLE. FINISHED HEADS SHALL BE INSTALLED IN ALL FINISHED AREAS. HEADS SHALL BE CENTERED IN CEILING TILES.
- GUARDS SHALL BE INSTALLED ON ALL HEADS SUBJECT TO PHYSICAL DAMAGE.
- SYSTEM SHALL BE IN COMPLETE COMPLIANCE WITH NFPA 13 AND ALL STATE/LOCAL REQUIREMENTS. PLANS MUST CONFORM TO THE LOCALLY ADOPTED FIRE CODE, APPLICABLE NFPA CODES, AND LOCAL CITY AMENDMENTS. SPRINKLER CONTRACTOR SHALL REFER TO OTHER DISCIPLINES SUCH AS ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL FOR OTHER REQUIREMENTS, RESTRICTIONS, CONFLICTS, ETC. THE FOLLOWING SPRINKLER PLANS ARE CONCEPTUAL IN NATURE AND ARE NOT INTENDED TO REPRESENT THE DETAILED SCOPE OF SPRINKLER WORK REQUIRED. ADDITIONAL WORK REQUIRED AS A RESULT OF FAILING TO COORDINATE WITH OTHER TRADES WILL BE PERFORMED AT NO ADDITIONAL COST TO THE OWNER OR A/E. INSTALLATION SHALL COVER ALL PORTIONS OF THE FACILITY.
- THE DESIGN OF THE FIRE SPRINKLER SYSTEM FOR THE BUILDING IS BY OTHERS. THIS FIRE SPRINKLER PLAN IS TO AID THE FIRE SPRINKLER CONTRACTOR/FIRE SPRINKLER SYSTEM DESIGNER IN THE DESIGN OF THE FIRE SPRINKLER SYSTEM.
- CONTRACTOR SHALL CONDUCT FIRE FLOW TEST TO VERIFY FLOW BEFORE BEGINNING FINAL DESIGN.
- PLASTIC PIPING IS NOT ACCEPTABLE.
- ALL SPRINKLER PIPING SHALL BE HIDDEN IN FINISHED AREAS.
- ARCHITECT RESERVES THE RIGHT TO ADJUST HEAD LOCATIONS AND, IF NECESSARY, HEAD QUANTITIES DURING THE SUBMITTAL PHASE.
- CONTRACTOR SHALL VISIT THE SITE AND SHALL BECOME FAMILIAR WITH THE EXISTING SITE CONDITIONS AND PROJECT SCOPE BEFORE SUBMITTING BID.
- ARRANGE WITH AUTHORITIES FOR CITY PERMITTING SUBMITTALS, PERMITS, AND FEES. PAY ALL CHARGES, INCLUDING INSPECTIONS.
- FIRE SEAL ALL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES AS REQUIRED. FIRE-CAULK ANY PENETRATIONS MADE TO DEMISING WALLS AND NEW WALLS.
- PROVIDE FIRE SPRINKLER COVERAGE THROUGHOUT THE BUILDING PER NFPA 13 HAZARD OCCUPANCIES.
- CEILING HEIGHTS VARY THROUGHOUT THE BUILDING. SOME AREAS HAVE DECORATIVE CEILINGS, LAY-IN CEILINGS, AND OTHER AREAS HAVE GYPBOARD CEILINGS.
- INSTALL FIRE SPRINKLER PIPING AS HIGH AS POSSIBLE TO AVOID CONFLICTS WITH DUCTWORK, PIPING, CONDUITS, ETC.
- SPRINKLER LAYOUT IN EXPOSED AREAS IS CRITICAL TO MINIMIZE VISIBILITY OF SPRINKLER SYSTEM. ANY CHANGES IN LAYOUT DUE TO CONFLICTS/SPRINKLER SYSTEM DESIGN REQUIREMENT SHALL BE COORDINATED WITH ARCHITECT DURING SPRINKLER SYSTEM DESIGN PHASE.
- EXPOSED SPRINKLER PIPING SHALL BE PAINTED AS DIRECTED BY ARCHITECT.
- ALL SPRINKLER HEADS IN PUBLIC AREAS WITHOUT CEILINGS SHALL BE EXPOSED TYPE UPRIGHT AUTOMATIC SPRINKLER HEADS. COORDINATE FINISH WITH ARCHITECT.
- ALL PENDANT SPRINKLER HEADS IN FINISHED AREAS WITH LAY-IN, GYPBOARD, AND HARD CEILINGS SHALL BE WHITE CONCEALED TYPE AUTOMATIC SPRINKLER HEADS WITH WHITE COVERS. PROVIDE UPRIGHT HEADS WITH BRASS FINISH FOR NON-PUBLIC AREAS WITHOUT CEILINGS.
- RELOCATE EXISTING SPRINKLER HEADS AND ADD/DELETE HEADS AS REQUIRED TO PROVIDE COMPLETE COVERAGE FOR THE NEW FLOOR PLAN. SPRINKLER BRANCH PIPING SHALL BE MODIFIED AND UPGRADED AS REQUIRED TO ACCOMMODATE THE NEW SPRINKLER HEAD ARRANGEMENT. ANY SECTION OF EXISTING SPRINKLER PIPING THAT SHOWS SIGNS OF DETERIORATION SHALL BE REPLACED AS REQUIRED TO MATCH EXISTING. ANY SPRINKLER HEADS REMOVED SHALL BE REPLACED WITH NEW.

FIRE PROTECTION DEMOLITION KEYED NOTES, PLAN FPD-1.0:

- EXISTING FIRE SPRINKLER HEADS TO REMAIN IN THIS ROOM.
- FIELD VERIFY EXACT SPRINKLER HEAD LOCATION IN THIS ROOM.
- EXISTING SPRINKLER HEAD LOCATION.
- EXISTING SPRINKLER HEAD LOCATION ABOVE CEILING CLOUDS IN THIS ROOM.
- ADD/DELETE/RELOCATE EXISTING SPRINKLER HEADS THROUGHOUT SCOPE OF WORK AS REQUIRED TO ACCOMMODATE CEILING/LIGHTING/MECHANICAL MODIFICATIONS AS WELL AS WALL AND CEILING MODIFICATIONS.



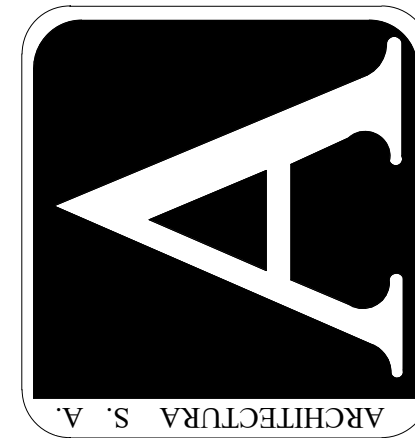
1 FIRE PROTECTION DEMOLITION PLAN - FIRST FLOOR

Plumbing

1/16" = 1'-0"

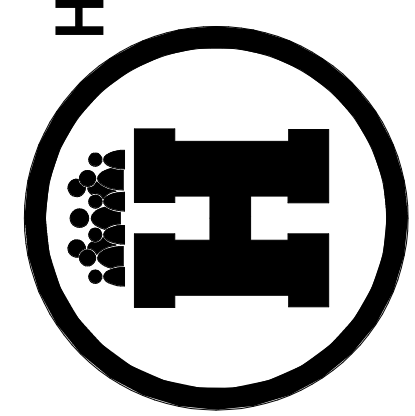


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State of Texas Firm Registration No. F-19468



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t. 210.384.8200 f. 210.319.3555
architecturass@yahoo.com

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EDUCATION (CTE)**
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519 W HARDING BLVD.
SAN ANTONIO, TX 78221



Drawn By: BRM
Checked By: DRG
Job Number: 2023.113

OVERALL FIRE PROTECTION PLAN

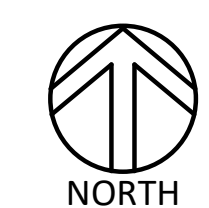
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Date: 04/24/23
Drawing No:

FP-1.1

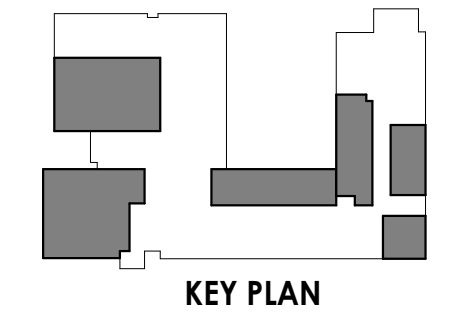


FIRE PROTECTION KEYED NOTES, PLAN FP-1.1:
① EXISTING FIRE SPRINKLER HEAD LOCATION SUPERIMPOSED ONTO NEW WORK PLAN. ADD/DELETE/RELOCATE EXISTING SPRINKLER HEADS THROUGHOUT SCOPE OF WORK AS REQUIRED TO ACCOMMODATE CEILING/LIGHTING/MECHANICAL MODIFICATIONS AS WELL AS WALL AND CEILING MODIFICATIONS.



1 FIRST FLOOR FIRE PROTECTION PLAN
Coordination

1/16" = 1'-0"
0 8' 16' 32'



HARLANDALE I.S.D.

CAREER TECHNOLOGY EDUCATION

CIVIL CONSTRUCTION PLANS

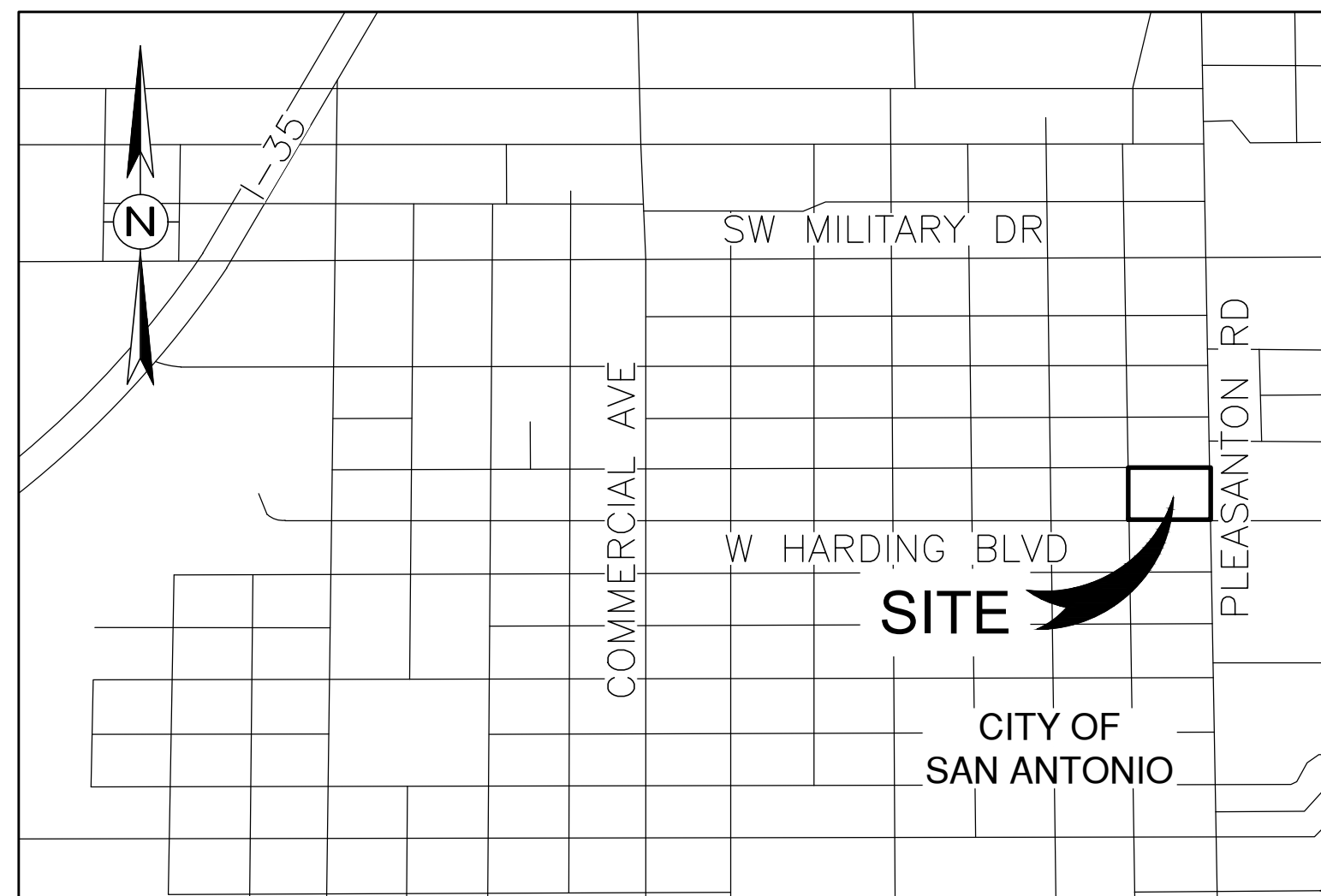
BEXAR COUNTY, SAN ANTONIO, TEXAS

ENGINEER:
 CDS MUERY
 ATTN: STEPHEN LIN, P.E.
 100 NE LOOP 410, STE. 300
 SAN ANTONIO, TEXAS 78216
 TEL: (210) 581-1111
 FAX: (210) 581-5555

OWNER:
 HARLANDALE I.S.D.
 102 GENEVIEVE DRIVE
 SAN ANTONIO, TEXAS 78214

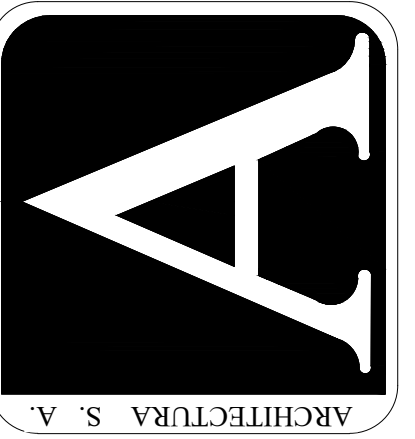
SITE INFORMATION:
 ADDRESS: 519 W HARDING BLVD, SAN ANTONIO, TEXAS 78214
 LEGAL DESCRIPTION: LOT 21, BLOCK 75, NCB 9357
 CARROLL BELL ELEM SCHL SUBD
 VOLUME 9549, PAGE 84, DPR
 ZONING: R-6 (RESIDENTIAL/SINGLE-FAMILY)
 FLOOD ZONE: ZONE X, MINIMAL FLOOD HAZARD AREA
 (PANEL No. 48029C0560F, SEPTEMBER 28, 2010)

SURVEY CONTROL:
 HORIZONTAL DATUM: NAD83(2011), EPOCH:2010, TEXAS STATE PLANE
 COORDINATE SYSTEM, ZONE 4204 (US SURVEY FT)
 VERTICAL DATUM: NAVD88 VRS GEOID12A
 SURFACE ADJUSTMENT: SURFACE ADJUSTMENT FACTOR OF 1.00017
 SURFACE = GRID x 1.00017
 PROJECT COORDINATES DATA IS BASED ON CONTROL POINT #101.
 CONTROL POINT #101: 1/2" IRON ROD WITH RED CAP
 N. 13,678,158.45
 E. 2,126,403.34
 ELEV: 625.63'



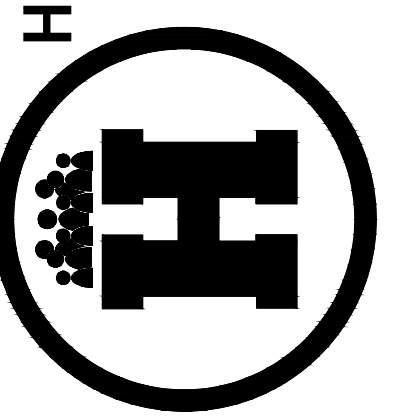
PROJECT LOCATION MAP
 NOT-TO-SCALE

| CIVIL INDEX SHEET | |
|-------------------|---|
| SHEET NO. | SHEET TITLE |
| C0.0 | COVER SHEET |
| C0.1 | SUBDIVISION PLAT |
| C1.0 | EXISTING CONDITIONS AND DEMOLITION PLAN |
| C2.0 | SITE DIMENSIONAL CONTROL & KEYNOTE PLAN |
| C2.1 | SITE DETAILS |
| C3.0 | SITE GRADING AND DRAINAGE |



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 t. 210.384.8200 f. 210.319.3555
 architecturasaa@yahoo.com

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 519 W HARDING BLVD.
 SAN ANTONIO, TX 78221



Drawn By: CDSm
 Checked By: SL
 Job Number: 23-09

COVER SHEET

| No. | DATE | DESCRIPTION |
|-----|------|-------------|
| | | |
| | | |
| | | |
| | | |

Date: 01/31/2024
 Drawing No: C0.0

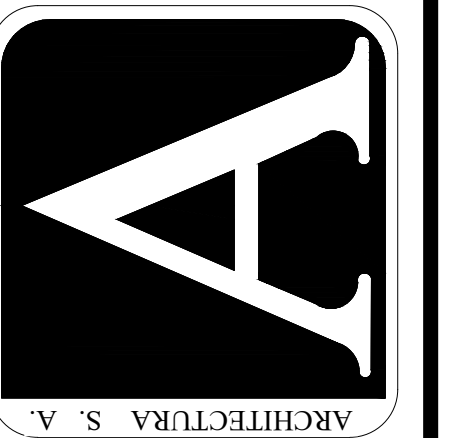
FEBRUARY 2024

100 NE Loop 410, Ste. 300 | San Antonio, Texas 78216
 (210) 581-1111 | TBPE No. F-1733 | TBPLS No. 100495-00

CONTRACTOR SHALL CALL "811" FOR UTILITY LOCATES AT THE START OF CONSTRUCTION.

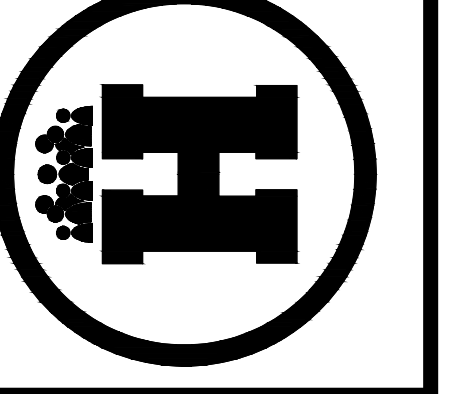
100 NE Loop 410, Ste. 300 | San Antonio, Texas 78216
 (210) 581-1111 | TBPE No. F-1733 | TBPLS No. 100495-00

PLOT DATE: 2/20/2024 3:45:10
 P:\08\2024\124030 HISD\ENGINEER\124030-COVR.DWG



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ARCHITECTURE INTERIOR DESIGN PLANNING
17038 REDLAND RD., SUITE 101, SAN ANTONIO, TEXAS 78247
t. 210.384.8200 f. 210.319.3555
architecturasa@yahoo.com

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HARLANDALE INDEPENDENT SCHOOL DISTRICT
519 W HARDING BLVD.
SAN ANTONIO, TX 78221



Drawn By: CDSm
Checked By: SL
Job Number: 23-09

SUBDIVISION PLAT

| No. | DATE | DESCRIPTION |
|-----|------|-------------|
| | | |
| | | |
| | | |
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Date: 01/31/2024
Drawing No: C0.1

PLAT I.D. # 000387

SITE LOCATION NTS

AREA BEING REPLATTED

THE AREA BEING REPLATTED BEING A 20' ALLEY CONVEYED AND RECORDED IN VOLUME 899, PAGE 13 AND ALL OF LOTS 1-20, BLOCK 75, N.C.B. 9357, RECORDED JULY 1913 IN VOLUME 368, PAGE 97-102, OF THE PLAT RECORDS OF BEXAR COUNTY, TEXAS.

NOTES:

IRON PINS FOUND OR SET AT ALL CORNERS.

WASTEWATER EDU NOTE: THE NUMBER OF WASTEWATER EQUIVALENT DWELLING UNITS (EDU'S) PAID FOR THIS SUBDIVISION PLAT ARE KEPT ON FILE AT THE SAN ANTONIO WATER SYSTEM UNDER THE PLAT I.D. NUMBER ISSUED BY THE CITY OF SAN ANTONIO PLANNING DEPARTMENT.

THE CITY OF SAN ANTONIO AS A PART OF ITS ELECTRIC AND GAS SYSTEM CITY PUBLIC SERVICE BOARD IS HEREBY DEDICATED THE EASEMENTS AND RIGHT-OF-WAY FOR ELECTRIC AND GAS DISTRIBUTION AND SERVICE FACILITIES IN THE AREAS DESIGNATED ON THIS PLAT AS "ELECTRIC EASEMENT", "GAS EASEMENT", "ANCHOR EASEMENT", "SERVICE EASEMENT", "OVERHANG EASEMENT", "UTILITY EASEMENT", AND "TRANSFORMER EASEMENT" FOR THE PURPOSE OF INSTALLING, CONSTRUCTING, RECONSTRUCTING, MAINTAINING, REMOVING, INSPECTING, PATROLLING, AND ERECTING POLES, HANGING OR BURYING WIRES, CABLES, CONDUITS, PIPELINES, OR TRANSFORMERS, EACH WITH ITS NECESSARY APPURTENANCES TOGETHER WITH THE RIGHT OF INGRESS AND EGRESS OVER GRANTORS ADJACENT LAND THE RIGHT TO RELOCATE SAID FACILITIES WITHIN SAID EASEMENTS AND RIGHT-OF-WAY AREAS AND THE RIGHT TO REMOVE SAID LANDS ALL TREES AND PART THEREOF OR OTHER OBSTRUCTIONS WHICH ENDANGER OR MAY INTERFERE WITH THE EFFICIENCY OF SAID LINES OR APPURTENANCES THERETO IT IS AGREED AND UNDERSTOOD THAT NO BUILDINGS, CONCRETE SLABS, OR WALLS WILL BE PLACED WITHIN SAID EASEMENTS AREAS, ANY CPS MONETARY LOSS RESULTING FROM MODIFICATIONS REQUIRED OF CPS EQUIPMENT, LOCATED WITHIN SAID EASEMENT, DUE TO GRADE CHANGE OR GROUND ELEVATION ALTERATION SHALL BE CHARGED TO THE PERSON OR PERSONS DEEMED RESPONSIBLE FOR SAID GRADE CHANGES OR GROUND ELEVATION ALTERATION.

THIS PLAT DOES NOT AMEND, ALTER, RELEASE OR OTHERWISE AFFECT ANY EXISTING ELECTRIC, GAS, WATER, SEWER, DRAINAGE, TELEPHONE, CABLE EASEMENTS OR ANY OTHER EASEMENTS FOR UTILITIES UNLESS THE CHANGES TO SUCH EASEMENTS ARE DESCRIBED BELOW.

STATE OF TEXAS
COUNTY OF BEXAR

THE OWNER OF THE LAND SHOWN ON THIS PLAT IN PERSON OR THROUGH A DULY AUTHORIZED AGENT DEDICATES TO THE USE OF THE PUBLIC FOREVER ALL STREETS, ALLEYS, PARKS, WATER COURSES, EASEMENTS AND PUBLIC PLACES THEREIN SHOWN FOR THE PURPOSE AND CONSIDERATION THEREIN EXPRESSED.

STATE OF TEXAS
COUNTY OF BEXAR

BEFORE ME, THE UNDERSIGNED AUTHORITY ON THIS DAY PERSONALLY APPEARED _____ KNOWN TO ME TO BE THE PERSON WHOSE NAME IS SUBSCRIBED TO THE FOREGOING INSTRUMENT AND ACKNOWLEDGED TO ME THAT HE EXECUTED THE SAME FOR THE PURPOSES AND CONSIDERATIONS THEREIN EXPRESSED AND IN THE CAPACITY THEREIN STATED.

GIVEN UNDER MY HAND AND SEAL OF OFFICE THIS 10th DAY OF October A. D. 2000.

Harlandale J. J. J.
OWNER

Clayton
DULY AUTHORIZED AGENT

STATE OF TEXAS
COUNTY OF BEXAR

I HEREBY CERTIFY THAT PROPER ENGINEERING CONSIDERATION HAS BEEN GIVEN THIS PLAT TO THE MATTERS OF STREETS, LOTS AND DRAINAGE LAYOUT AND TO THE BEST OF MY KNOWLEDGE THIS PLAT CONFORMS TO ALL REQUIREMENTS OF THE SUBDIVISION ORDINANCE, EXCEPT FOR THOSE VARIANCES GRANTED BY THE PLANNING COMMISSION OF THE CITY.

Neil F. Fisher
NEIL F. FISHER, P.E. 47002

SWORN TO AND SUBSCRIBED BEFORE ME THIS THE 10th DAY OF October A. D. 2000.

Virginia L. Kravger
NOTARY PUBLIC
BEXAR COUNTY, TEXAS

STATE OF TEXAS
COUNTY OF BEXAR

BEFORE ME, THE UNDERSIGNED AUTHORITY ON THIS DAY PERSONALLY APPEARED _____ KNOWN TO ME TO BE THE PERSON WHOSE NAME IS SUBSCRIBED TO THE FOREGOING INSTRUMENT AND ACKNOWLEDGED TO ME THAT HE EXECUTED THE SAME FOR THE PURPOSES AND CONSIDERATIONS THEREIN EXPRESSED AND IN THE CAPACITY THEREIN STATED.

GIVEN UNDER MY HAND AND SEAL OF OFFICE THIS 10th DAY OF October A. D. 2000.

Neil F. Fisher
NEIL F. FISHER, RPLS 3942

SWORN TO AND SUBSCRIBED BEFORE ME THIS THE 10th DAY OF October A. D. 2000.

Neil F. Fisher
NEIL F. FISHER, RPLS 3942

STATE OF TEXAS
COUNTY OF BEXAR

I HEREBY CERTIFY THAT THIS PLAT IS TRUE AND CORRECT AND WAS PREPARED FROM AN ACTUAL SURVEY OF THE PROPERTY UNDER MY SUPERVISION ON THE GROUND.

Neil F. Fisher
NEIL F. FISHER, RPLS 3942

SWORN TO AND SUBSCRIBED BEFORE ME THIS THE 10th DAY OF October A. D. 2000.

Virginia L. Kravger
NOTARY PUBLIC
BEXAR COUNTY, TEXAS

STATE OF TEXAS
COUNTY OF BEXAR

I, *Gerry Rickhoff*, COUNTY CLERK OF SAID COUNTY, DO HEREBY CERTIFY THAT THIS PLAT WAS FILED FOR RECORD IN MY OFFICE, ON THE 14 DAY OF November, A. D. 2000 AT 1:28 PM AND DULY RECORDED THE 20 DAY OF November, A. D. 2000 AT 1:28 PM IN THE RECORDS OF Plat Books OF SAID COUNTY, IN BOOK VOLUME 9549 ON PAGE 84 IN TESTIMONY WHEREOF, WITNESS MY HAND AND OFFICIAL SEAL OF OFFICE, THIS 20 DAY OF November 2000.

By: *Luana B. Pura* DEPUTY COUNTY CLERK, BEXAR COUNTY, TEXAS
DATE: 10/09/00 PROJECT NO. 00-043

SUBDIVISION PLAT ESTABLISHING
CARROLL BELL ELEMENTARY SCHOOL SUBDIVISION

A CERTAIN 3.420 ACRES OF LAND, BEING A 20' ALLEY CONVEYED AND RECORDED IN VOLUME 899, PAGE 13 AND ALL OF LOTS 1-20, BLOCK 75, NCB 9357, RECORDED JULY 1913 IN VOLUME 368, PAGE 97-102, OF THE PLAT RECORDS OF BEXAR COUNTY, TEXAS, AND TO BE KNOWN AS LOT 21, BLOCK 75, NCB 7819, CARROLL BELL ELEMENTARY SCHOOL SUBDIVISION, SAN ANTONIO, BEXAR COUNTY TEXAS.

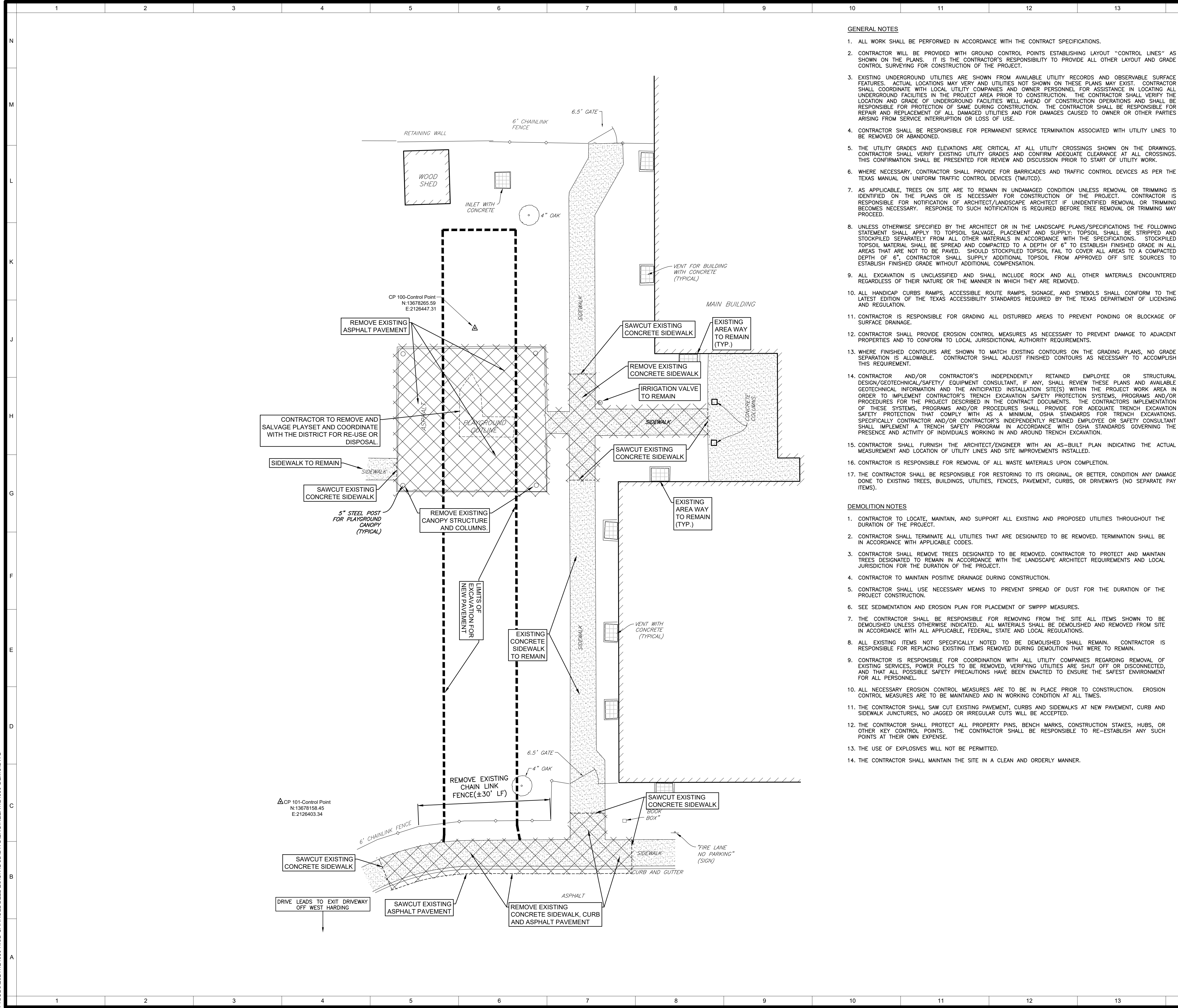
THIS PLAT OF CARROLL BELL ELEMENTARY SCHOOL SUBDIVISION HAS BEEN SUBMITTED TO THE CITY OF SAN ANTONIO, TEXAS, AND IS HEREBY APPROVED BY THE DIRECTOR OF PLANNING IN ACCORDANCE WITH V.T.C.A., LOCAL GOVERNMENT CODE SECTION 212.065.

DATED THIS 24th DAY OF October, 2000

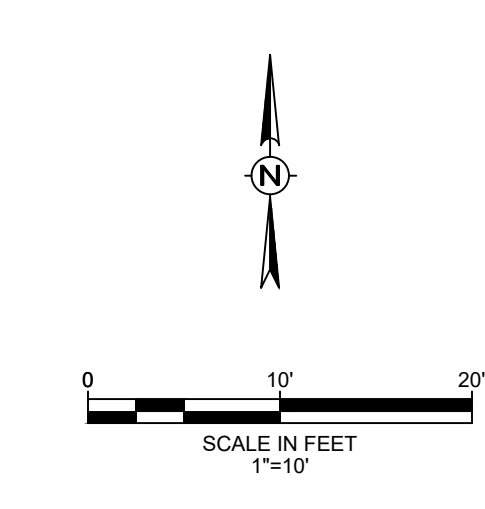
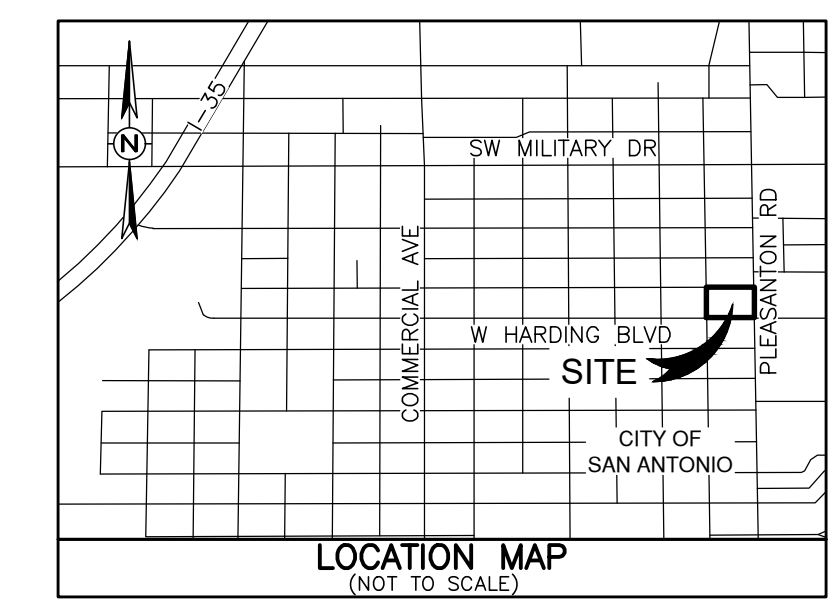
By: *Emil R. Williams*
DIRECTOR

FOR REFERENCE ONLY, NOT FOR RECORDATION

PLOT DATE: 2/20/2024 3:37:29
 P:\085\2024\124030 HISD CARROLL BELL ESC/11 3DDWG\ENGINEER\124030-DEMO.DWG



- GENERAL NOTES**
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS.
 - CONTRACTOR WILL BE PROVIDED WITH GROUND CONTROL POINTS ESTABLISHING LAYOUT "CONTROL LINES" AS SHOWN ON THE PLANS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL OTHER LAYOUT AND GRADE CONTROL SURVEYING FOR CONSTRUCTION OF THE PROJECT.
 - EXISTING UNDERGROUND UTILITIES ARE SHOWN FROM AVAILABLE UTILITY RECORDS AND OBSERVABLE SURFACE FEATURES. ACTUAL LOCATIONS MAY VARY AND UTILITIES NOT SHOWN ON THESE PLANS MAY EXIST. CONTRACTOR SHALL COORDINATE WITH LOCAL UTILITY COMPANIES AND OWNER PERSONNEL FOR ASSISTANCE IN LOCATING ALL UNDERGROUND FACILITIES IN THE PROJECT AREA PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL VERIFY THE LOCATION AND GRADE OF UNDERGROUND FACILITIES WELL AHEAD OF CONSTRUCTION OPERATIONS AND SHALL BE RESPONSIBLE FOR PROTECTION OF SAME DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR AND REPLACEMENT OF ALL DAMAGED UTILITIES AND FOR DAMAGES CAUSED TO OWNER OR OTHER PARTIES ARISING FROM SERVICE INTERRUPTION OR LOSS OF USE.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR PERMANENT SERVICE TERMINATION ASSOCIATED WITH UTILITY LINES TO BE REMOVED OR ABANDONED.
 - THE UTILITY GRADES AND ELEVATIONS ARE CRITICAL AT ALL UTILITY CROSSINGS SHOWN ON THE DRAWINGS. CONTRACTOR SHALL VERIFY EXISTING UTILITY GRADES AND CONFIRM ADEQUATE CLEARANCE AT ALL CROSSINGS. THIS CONFIRMATION SHALL BE PRESENTED FOR REVIEW AND DISCUSSION PRIOR TO START OF UTILITY WORK.
 - WHERE NECESSARY, CONTRACTOR SHALL PROVIDE FOR BARRICADES AND TRAFFIC CONTROL DEVICES AS PER THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD).
 - AS APPLICABLE, TREES ON SITE ARE TO REMAIN IN UNDAUNTED CONDITION UNLESS REMOVAL OR TRIMMING IS SHOWN ON THE PLANS OR IS NECESSARY FOR CONSTRUCTION OF THE PROJECT. CONTRACTOR IS RESPONSIBLE FOR NOTIFICATION OF ARCHITECT/LANDSCAPE ARCHITECT IF UNIDENTIFIED REMOVAL OR TRIMMING BECOMES NECESSARY. RESPONSE TO SUCH NOTIFICATION IS REQUIRED BEFORE TREE REMOVAL OR TRIMMING MAY PROCEED.
 - UNLESS OTHERWISE SPECIFIED BY THE ARCHITECT OR IN THE LANDSCAPE PLANS/SPECIFICATIONS THE FOLLOWING STATEMENT SHALL APPLY TO TOPSOIL SALVAGE, PLACEMENT AND SUPPLY: TOPSOIL SHALL BE STRIPPED AND STOCKPILED SEPARATELY FROM ALL OTHER MATERIALS IN ACCORDANCE WITH THE SPECIFICATIONS. STOCKPILED TOPSOIL MATERIAL SHALL BE SPREAD AND COMPACTED TO A DEPTH OF 6" TO ESTABLISH FINISHED GRADE IN ALL AREAS THAT ARE NOT TO BE PAVED. SHOULD STOCKPILED TOPSOIL FAIL TO COVER ALL AREAS TO A COMPACTED DEPTH OF 6" CONTRACTOR SHALL SUPPLY ADDITIONAL TOPSOIL FROM APPROVED OFF-SITE SOURCES TO ESTABLISH FINISHED GRADE WITHOUT ADDITIONAL COMPENSATION.
 - ALL EXCAVATION IS UNCLASSIFIED AND SHALL INCLUDE ROCK AND ALL OTHER MATERIALS ENCOUNTERED REGARDLESS OF THEIR NATURE OR THE MANNER IN WHICH THEY ARE REMOVED.
 - ALL HANDICAP CURBS, RAMPS, ACCESSIBLE ROUTE RAMPS, SIGNAGE, AND SYMBOLS SHALL CONFORM TO THE LATEST EDITION OF THE TEXAS ACCESSIBILITY STANDARDS REQUIRED BY THE TEXAS DEPARTMENT OF LICENSING AND REGULATION.
 - CONTRACTOR IS RESPONSIBLE FOR GRADING ALL DISTURBED AREAS TO PREVENT PONDING OR BLOCKAGE OF SURFACE DRAINAGE.
 - CONTRACTOR SHALL PROVIDE EROSION CONTROL MEASURES AS NECESSARY TO PREVENT DAMAGE TO ADJACENT PROPERTIES AND TO CONFORM TO LOCAL JURISDICTIONAL REQUIREMENTS.
 - WHERE FINISHED CONTOURS ARE SHOWN TO MATCH EXISTING CONTOURS ON THE GRADING PLANS, NO GRADE SEPARATION IS ALLOWABLE. CONTRACTOR SHALL ADJUST FINISHED CONTOURS AS NECESSARY TO ACCOMPLISH THIS REQUIREMENT.
 - CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGNER/GEOTECHNICAL/SAFETY/ EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITE(S) WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLY WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITY OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.
 - CONTRACTOR SHALL FURNISH THE ARCHITECT/ENGINEER WITH AN AS-BUILT PLAN INDICATING THE ACTUAL MEASUREMENT AND LOCATION OF UTILITY LINES AND SITE IMPROVEMENTS INSTALLED.
 - CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF ALL WASTE MATERIALS UPON COMPLETION.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING TO ITS ORIGINAL, OR BETTER, CONDITION ANY DAMAGE DONE TO EXISTING TREES, BUILDINGS, UTILITIES, FENCES, PAVEMENT, CURBS, OR DRIVEWAYS (NO SEPARATE PAY ITEMS).
- DEMOLITION NOTES**
- CONTRACTOR TO LOCATE, MAINTAIN, AND SUPPORT ALL EXISTING AND PROPOSED UTILITIES THROUGHOUT THE DURATION OF THE PROJECT.
 - CONTRACTOR SHALL TERMINATE ALL UTILITIES THAT ARE DESIGNATED TO BE REMOVED. TERMINATION SHALL BE IN ACCORDANCE WITH APPLICABLE CODES.
 - CONTRACTOR SHALL REMOVE TREES DESIGNATED TO BE REMOVED. CONTRACTOR TO PROTECT AND MAINTAIN TREES DESIGNATED TO REMAIN IN ACCORDANCE WITH THE LANDSCAPE ARCHITECT REQUIREMENTS AND LOCAL JURISDICTION FOR THE DURATION OF THE PROJECT.
 - CONTRACTOR TO MAINTAIN POSITIVE DRAINAGE DURING CONSTRUCTION.
 - CONTRACTOR SHALL USE NECESSARY MEANS TO PREVENT SPREAD OF DUST FOR THE DURATION OF THE PROJECT CONSTRUCTION.
 - SEE SEDIMENTATION AND EROSION PLAN FOR PLACEMENT OF SWPPP MEASURES.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING FROM THE SITE ALL ITEMS SHOWN TO BE DEMOLISHED UNLESS OTHERWISE INDICATED. ALL MATERIALS SHALL BE DEMOLISHED AND REMOVED FROM SITE IN ACCORDANCE WITH ALL APPLICABLE, FEDERAL, STATE AND LOCAL REGULATIONS.
 - ALL EXISTING ITEMS NOT SPECIFICALLY NOTED TO BE DEMOLISHED SHALL REMAIN. CONTRACTOR IS RESPONSIBLE FOR REPLACING EXISTING ITEMS REMOVED DURING DEMOLITION THAT WERE TO REMAIN.
 - CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH ALL UTILITY COMPANIES REGARDING REMOVAL OF EXISTING SERVICES, POWER POLES TO BE REMOVED, VERIFYING UTILITIES ARE SHUT OFF OR DISCONNECTED, AND THAT ALL POSSIBLE SAFETY PRECAUTIONS HAVE BEEN ENACTED TO ENSURE THE SAFEST ENVIRONMENT FOR ALL PERSONNEL.
 - ALL NECESSARY EROSION CONTROL MEASURES ARE TO BE IN PLACE PRIOR TO CONSTRUCTION. EROSION CONTROL MEASURES ARE TO BE MAINTAINED AND IN WORKING CONDITION AT ALL TIMES.
 - THE CONTRACTOR SHALL SAW CUT EXISTING PAVEMENT, CURBS AND SIDEWALKS AT NEW PAVEMENT, CURB AND SIDEWALK JUNCTURES, NO JAGGED OR IRREGULAR CUTS WILL BE ACCEPTED.
 - THE CONTRACTOR SHALL PROTECT ALL PROPERTY PINS, BENCH MARKS, CONSTRUCTION STAKES, HUBS, OR OTHER KEY CONTROL POINTS. THE CONTRACTOR SHALL BE RESPONSIBLE TO RE-ESTABLISH ANY SUCH POINTS AT THEIR OWN EXPENSE.
 - THE USE OF EXPLOSIVES WILL NOT BE PERMITTED.
 - THE CONTRACTOR SHALL MAINTAIN THE SITE IN A CLEAN AND ORDERLY MANNER.



LEGEND

| | |
|-----------|------------------|
| --- | PROPERTY LINE |
| - - - - - | EASEMENT LINE |
| - - - - - | SETBACK LINE |
| — — — | EDGE OF PAVEMENT |
| + | SIGN |
| ⊕ | IRRIGATION VALVE |
| ○ | TREE |
| ⊙ | BENCHMARK |
| △ | CONTROL SYMBOL |
| - - - - - | CONTOURS |
| 880.90 | SPOT ELEVATIONS |

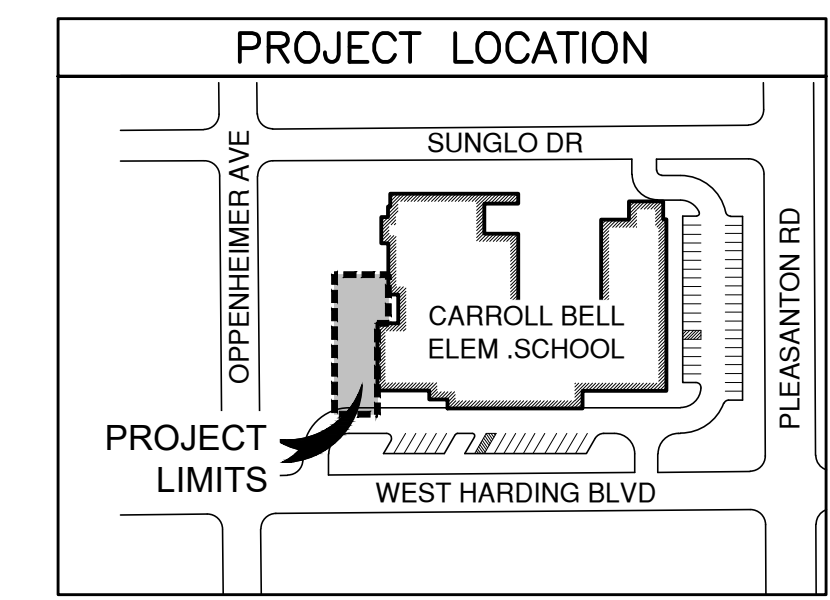
HORIZONTAL CONTROL

| POINT NO. | NORTHING | EASTING | DESCRIPTION |
|-----------|----------------|--------------|-----------------|
| 100 | 1,3,678,265.59 | 2,126,447.31 | CP SET 1/2IRWRC |
| 101 | 1,3,678,158.45 | 2,126,403.34 | CP SET 1/2IRWRC |

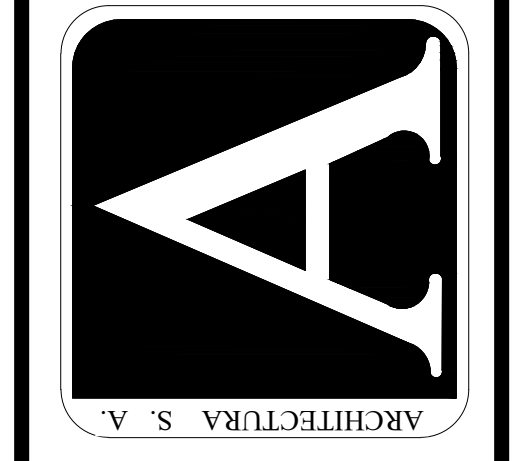
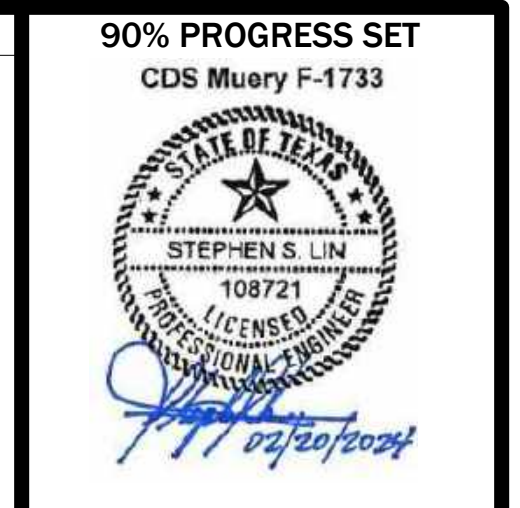
GRID NORTH, TEXAS STATE PLANE COORDINATE SYSTEM,
 HORIZONTAL DATUM= NAD83(2011)EPOCH:2010, TEXAS SOUTH CENTRAL ZONE (4204) (US SURVEY FT)

VERTICAL DATUM = NAVD88 VRS GEOID12A
 SURFACE ADJUSTMENT FACTOR=1.00017
 SURFACE = GRID X 1.00017

PROJECT COORDINATES DATA IS BASED ON CONTROL POINT #101
 N. 13,678,158.45, E. 2,126,403.34 (SURFACE)
 JOB #124030, FB #9387, PGS. 5-10

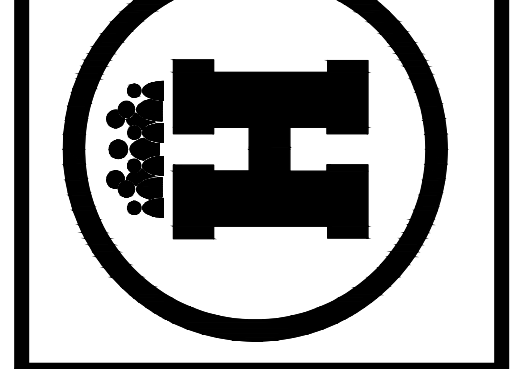


CDS muery
 ENGINEERS | SURVEYORS
 100 NE Loop 410, Ste. 300 | San Antonio, Texas 78216
 (210) 581-1111 | TBP No. F-1733 | TPLS No. 100495-00



ARCHITECTURA S.A., INC.
 ARCHITECTURE INTERIOR DESIGN PLANNING
 17038 REDLAND RD., SUITE 101, SAN ANTONIO, TEXAS 78247
 t. 210.384.8200 f. 210.319.3555
 architecturasaa@yahoo.com

HISD CAREER TECHNOLOGY EDUCATION (CTE)
 HARLANDALE INDEPENDENT SCHOOL DISTRICT
 519 W HARDING BLVD.
 SAN ANTONIO, TX 78221



Drawn By: CDSm
 Checked By: SL
 Job Number: 23-09

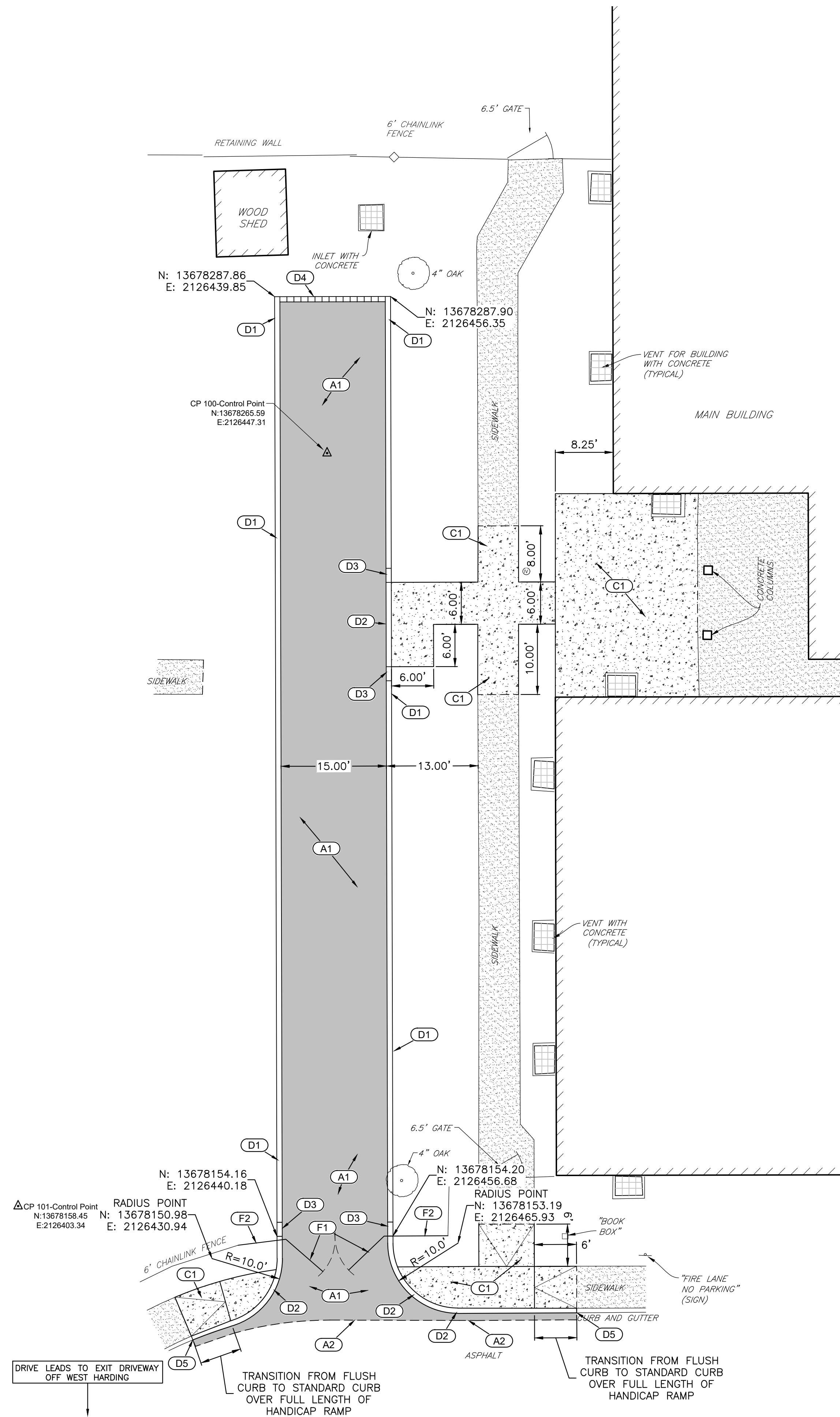
EXISTING CONDITIONS AND DEMOLITION PLAN

| No. | DATE | DESCRIPTION |
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Date: 01/31/2024
 Drawing No:

C1.0

PLOT DATE: 2/20/2024 3:37:45
 P:\000000\2024\124030 HISD CARROLL BELL ESC CIVIL 3DDWG\ENGINEER\124030-DIM.DWG

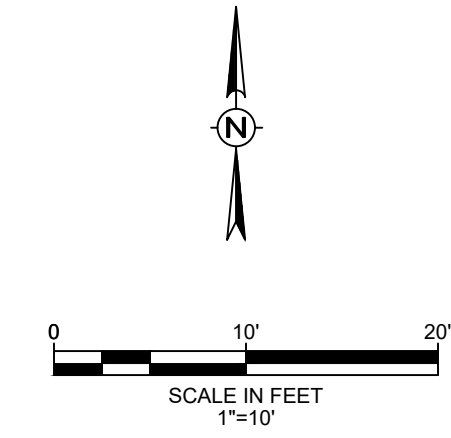
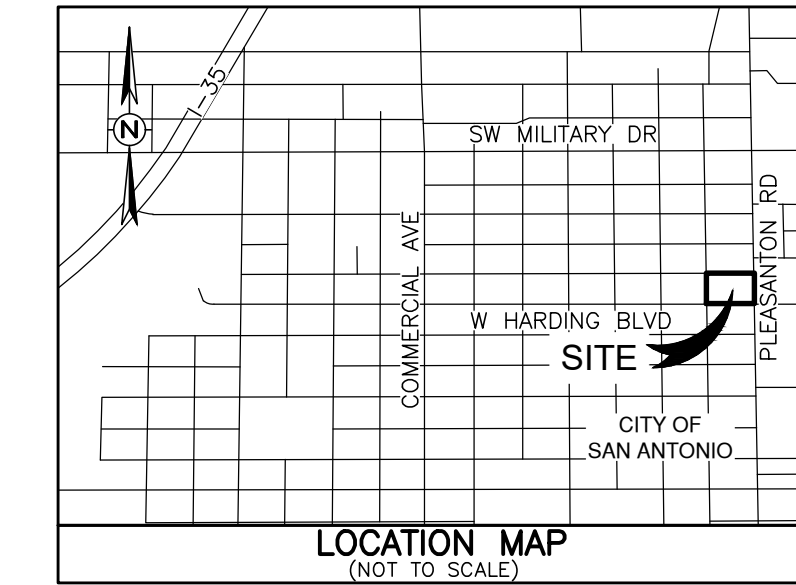


PAVEMENT NOTES

1. ALL WORK WITHIN STATE, COUNTY, AND/OR CITY RIGHT-OF-WAYS SHALL BE PERFORMED IN ACCORDANCE WITH EACH ENTITY'S GOVERNING RULES AND STANDARDS. CONTRACTOR SHALL MAINTAIN A COPY OF ALL NECESSARY PERMITS ON THE JOBSITE WHEN WORKING IN PUBLIC RIGHT-OF-WAYS.
2. ALL MATERIALS AND CONSTRUCTION PROCEDURES WITHIN THIS SCOPE OF WORK WHERE NOT SPECIFICALLY COVERED IN THE SPECIFICATIONS OR GEOTECHNICAL REPORT SHALL CONFORM TO ALL APPLICABLE CITY, COUNTY OR TXDOT STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (LATEST EDITION).
3. ALL PAINT SHALL BE 4" WIDE REFLECTIVE PAINT: WHITE ON ASPHALT PAVING AND YELLOW ON CONCRETE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
4. ALL PAVEMENT MARKINGS SHALL RECEIVE TWO COATS OF PAINT.
5. NO WORK SHALL BE PERFORMED IN A PUBLIC RIGHT-OF-WAY WITHOUT A PERMIT.
6. ALL SIGNS SHALL CONFORM TO MUTCD, LATEST EDITION.
7. ALL CURBS SHALL BE 6" HIGH UNLESS OTHERWISE NOTED.
8. ALL STANDARD PERPENDICULAR PARKING STALLS ARE 9' X 18' AND COMPACT PARKING STALLS ARE 8' X 16' UNLESS DIMENSIONED OTHERWISE.

DIMENSIONAL CONTROL NOTES

1. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY QUESTIONS THAT MAY ARISE CONCERNING THE INTENT, PLACEMENT OR LIMITS OF DIMENSIONS NECESSARY FOR CONSTRUCTION OF THE PROJECT.
2. THE CONTRACTOR SHALL PRESERVE ALL CONTROL POINTS, PROPERTY PINS, BENCH MARKS, HUBS OR OTHER KEY CONTROL POINTS. THE CONTRACTOR SHALL BE RESPONSIBLE TO RE-ESTABLISH ANY SUCH POINTS AT THEIR OWN EXPENSE IN THE EVENT THEY ARE REMOVED.
3. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO THE START OF CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING ALL HORIZONTAL AND VERTICAL CONTROL PER THE CONSTRUCTION DRAWINGS.
5. UNLESS OTHERWISE NOTED, THE CONTRACTOR SHALL USE THE PROPERTY PINS FOR HORIZONTAL CONTROL POINTS. BENCHMARKS ARE NOT TO BE USED FOR HORIZONTAL CONTROL.
6. ALL DIMENSIONAL CONTROL POINTS OR DIMENSIONS ARE TO THE FACE OF CURB, FACE OF RETAINING WALL, AND CENTER OF PAINT STRIPING. ALL DIMENSIONS ARE PERPENDICULAR TO THE POINT OF REFERENCE.
7. REFER TO THE ARCHITECTURAL PLANS FOR ADDITIONAL DIMENSIONAL CONTROL INFORMATION.
8. CURB RADII ARE 3' UNLESS OTHERWISE NOTED ON THE DRAWINGS.

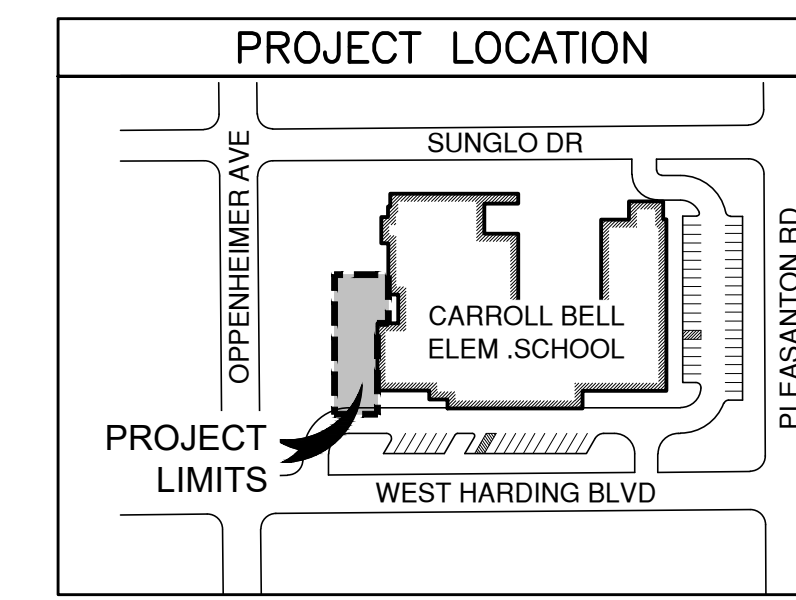


LEGEND

| EXISTING | PROPOSED | DESCRIPTION |
|----------|----------|-------------------------------------|
| --- | --- | PROPERTY LINE |
| --- | --- | EASEMENT LINE |
| --- | --- | SETBACK LINE |
| --- | --- | OVERHEAD UTILITY |
| --- | --- | EDGE OF PAVEMENT |
| + | + | SIGN |
| ⊕ | ⊕ | IRRIGATION VALVE |
| ○ | ○ | TREE |
| ◆ | ◆ | BENCHMARK |
| △ | △ | CONTROL SYMBOL |
| --- | --- | PROPOSED CONCRETE WALK/FLATWORK |
| --- | --- | PROPOSED ASPHALT PAVT (MEDIUM DUTY) |

KEYNOTES

| | |
|------|---|
| (A1) | ASPHALT PAVT: MEDIUM DUTY(SEE SHT. C2.1) |
| (A2) | PAVEMENT JUNCTURE(SEE SHT. C2.1) |
| (C1) | CONCRETE SIDEWALK/FLATWORK(SEE SHT. C2.1) |
| (D1) | CURB: STANDARD STAND-UP CURB(6" HIGH) (SEE SHT. C2.1) |
| (D2) | CURB: STANDARD FLUSH CURB(SEE SHT. C2.1) |
| (D3) | TRANSITION CURB(SEE SHT. C2.1) |
| (D4) | SAWTOOTH CONCRETE CURB(SEE SHT. C2.1) |
| (D5) | CONCRETE CURB TO EX. CONCRETE CURB |
| (F1) | CHAINLINK FENCE GATES: 6' HIGH X 7' WIDE(SEE SHT. C2.1) |



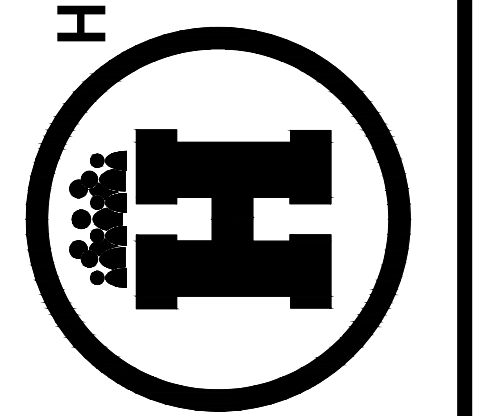
CDS muery
 ENGINEERS | SURVEYORS
 100 NE Loop 410, Ste. 300 | San Antonio, Texas 78216
 (210) 581-1111 | TBP No. F-1733 | TPLS No. 100495-00

90% PROGRESS SET
 CDS Muery F-1733

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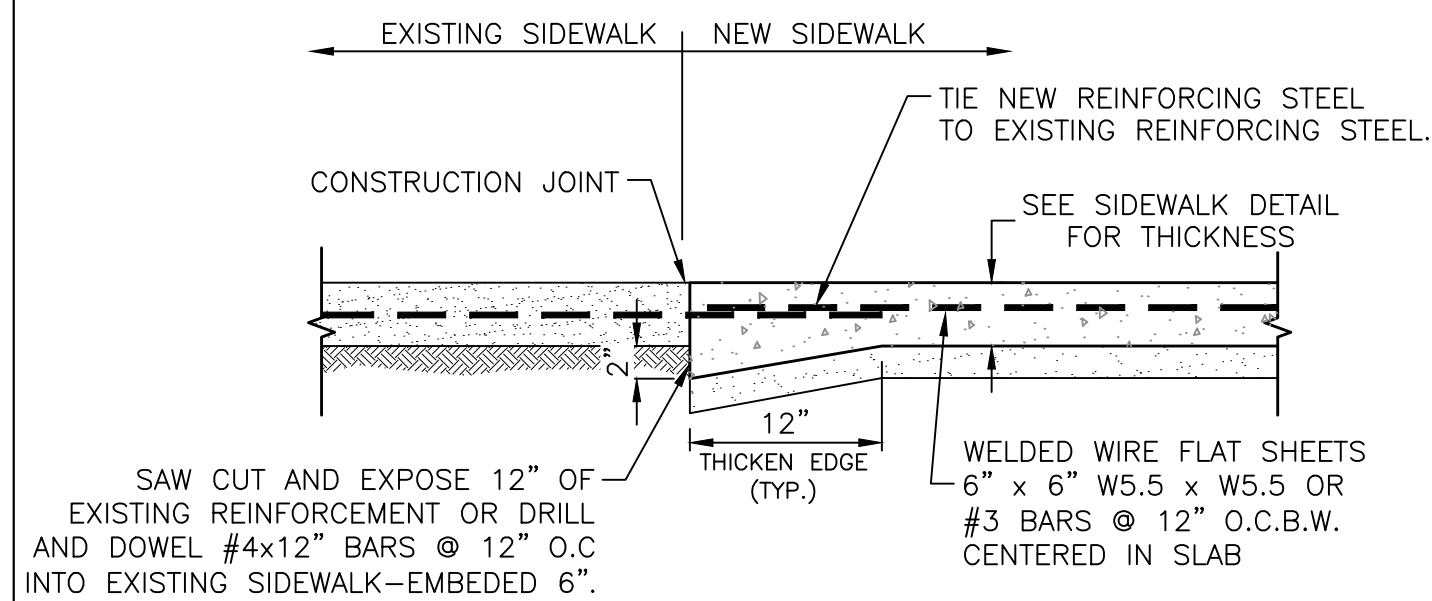
| | |
|-------------|-------|
| Drawn By: | CDSm |
| Checked By: | SL |
| Job Number: | 23-09 |

SITE DIMENSIONAL CONTROL AND KEYNOTE PLAN

| No. | DATE | DESCRIPTION |
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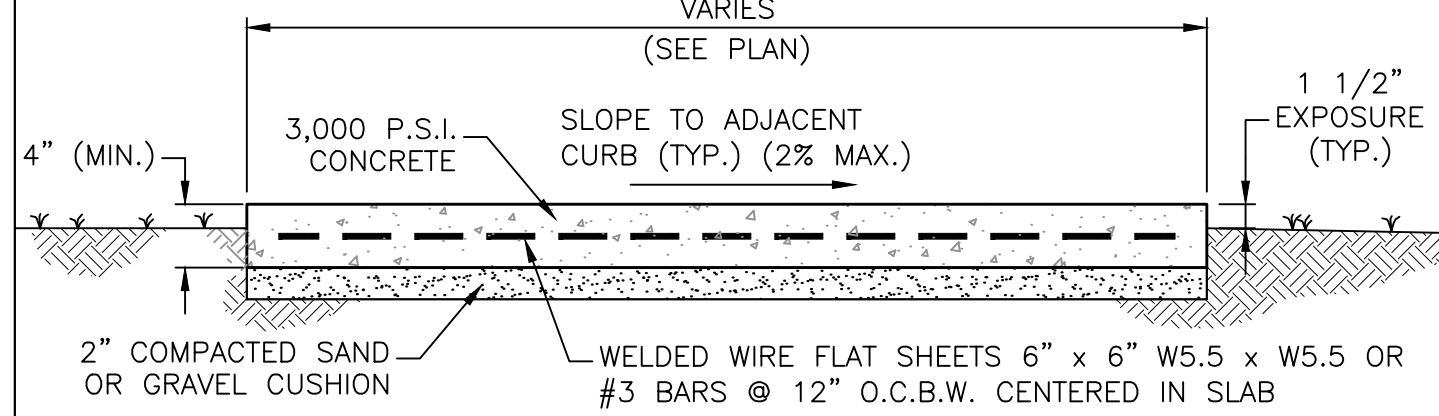
Date: 01/31/2024
 Drawing No: **C2.0**

PLOT DATE: 2/20/2024 3:37:59
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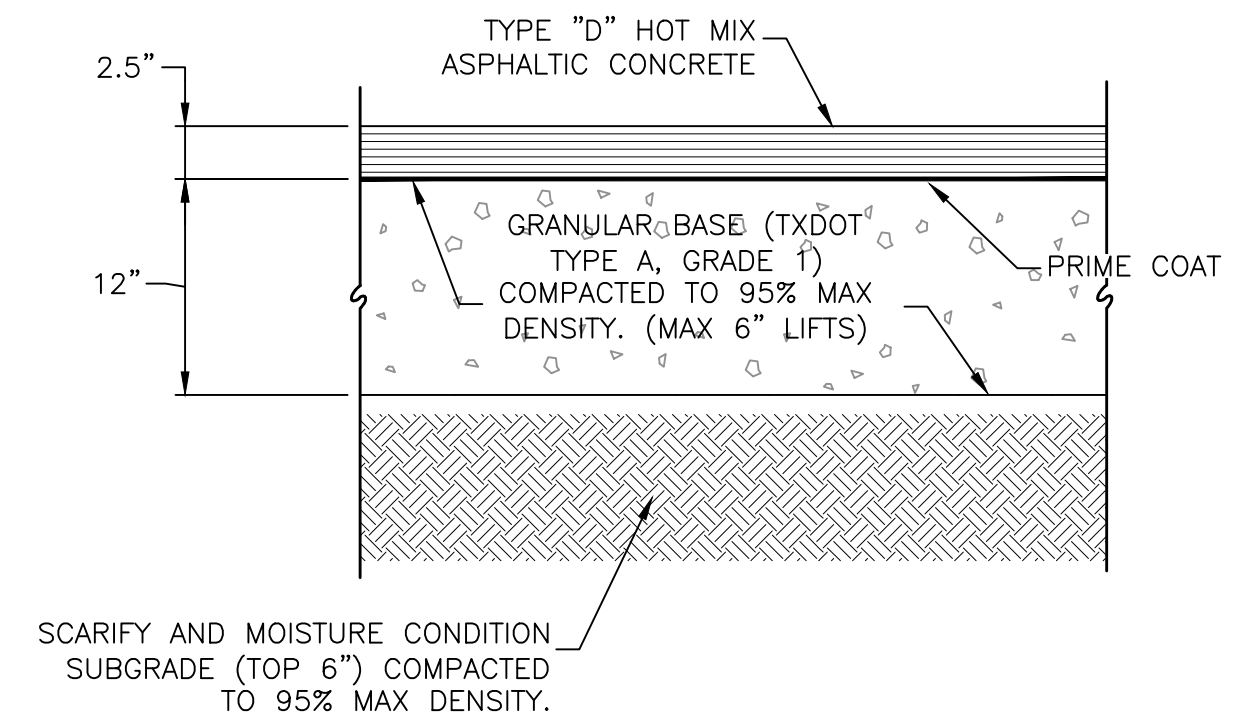
SIDEWALK JUNCTURE

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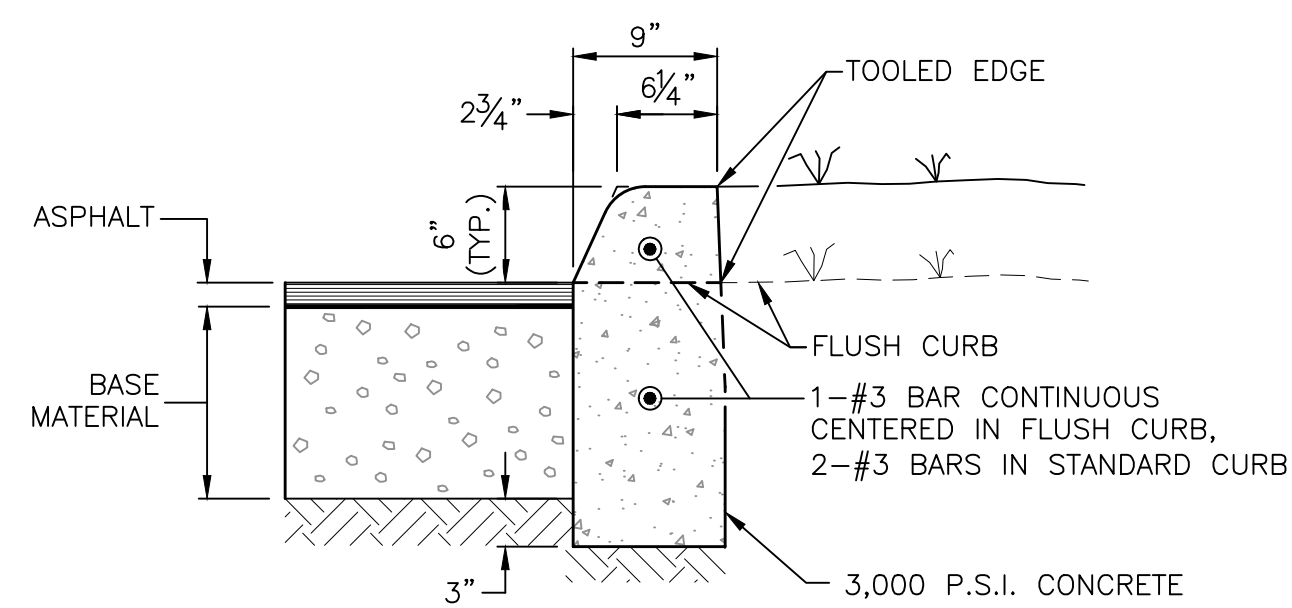
CONCRETE SIDEWALK / FLATWORK

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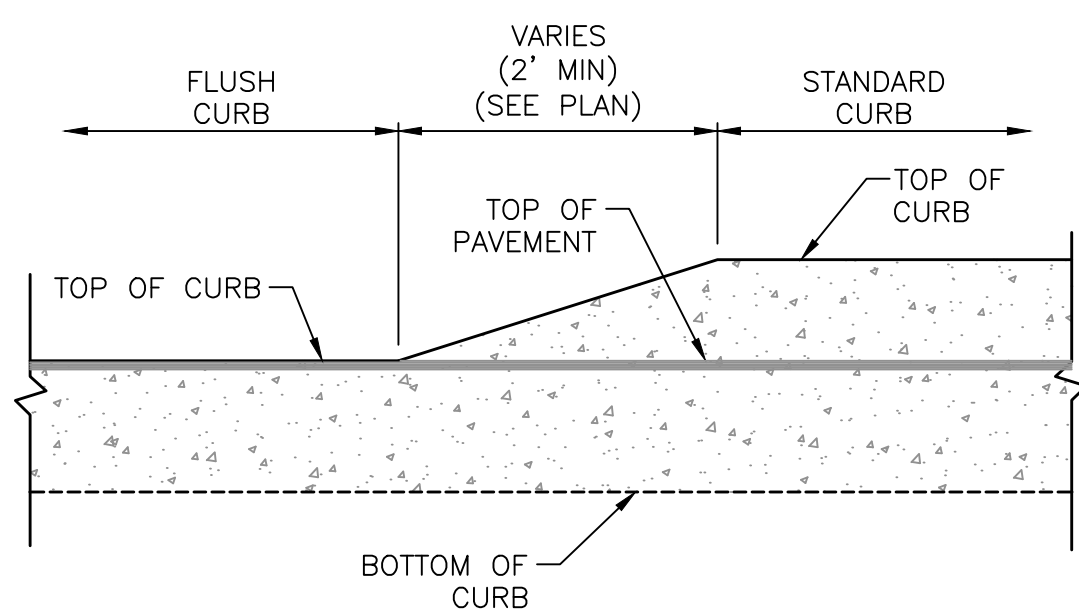
FLEXIBLE ASPHALT PAVEMENT

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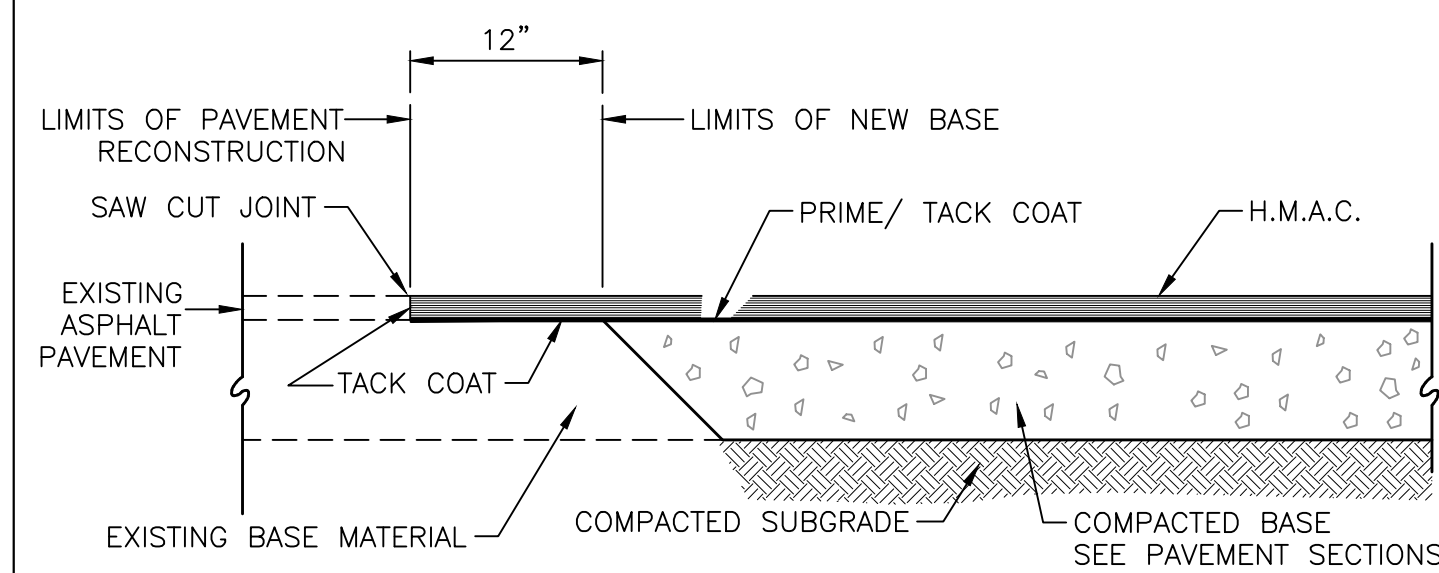
STANDARD STAND-UP / FLUSH CURB SECTION

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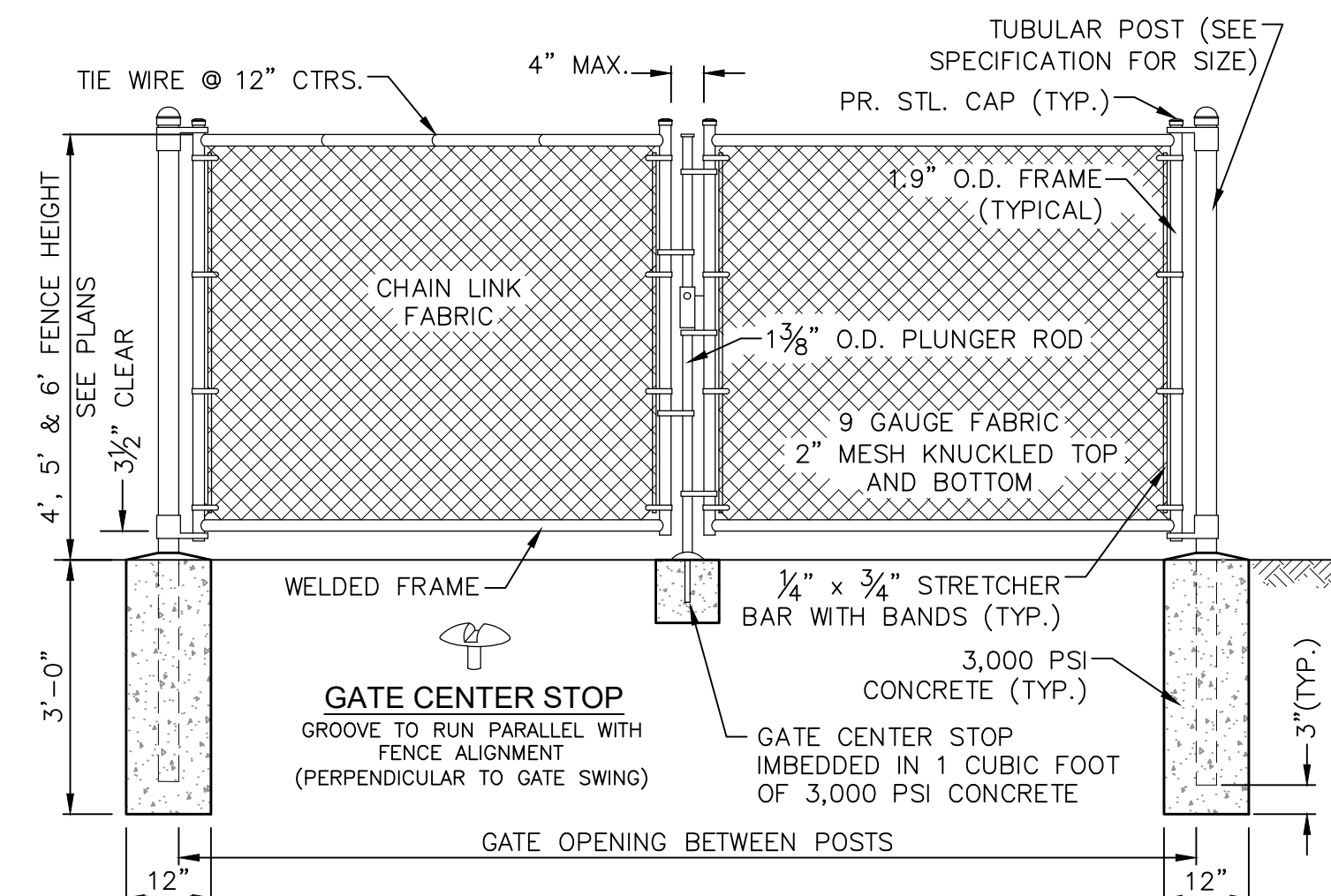
CURB TRANSITION

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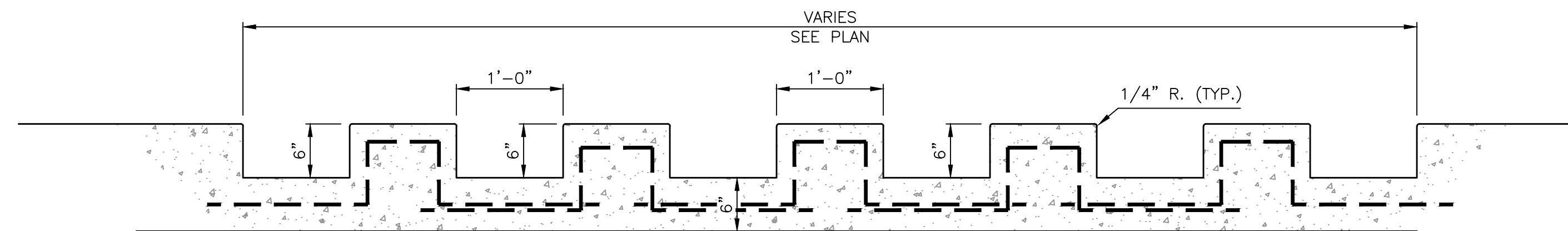
PAVEMENT JUNCTION DETAIL

N.T.S.



**DOUBLE GATE
 4', 5' & 6' HIGH CHAIN LINK GATE DETAIL**

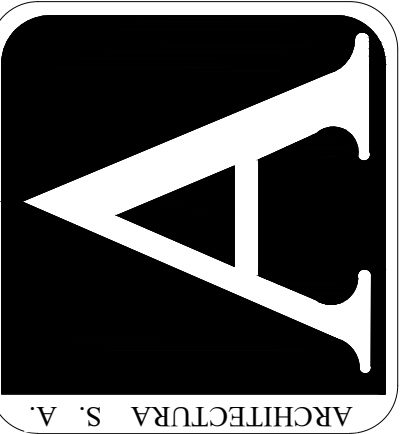
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SAW TOOTH CURB SECTION

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90% PROGRESS SET
 CDS Muery F-1733

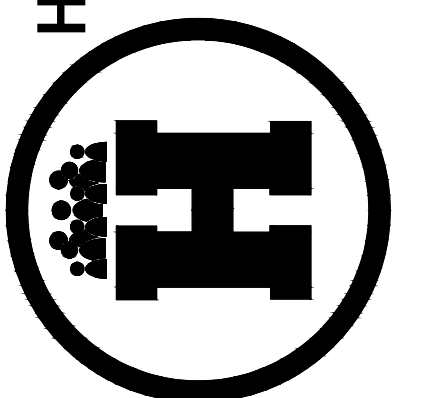


ARCHITECTURA S.A., INC.
 ARCHITECTURE INTERIOR DESIGN PLANNING
 17038 REDLAND RD., SUITE 101, SAN ANTONIO, TEXAS 78247

t. 210.384.8200 f. 210.319.3555
 architecturasaa@yahoo.com

**HISD CAREER TECHNOLOGY
 EDUCATION (CTE)**

HARLANDALE INDEPENDENT SCHOOL DISTRICT
 519 W HARDING BLVD.
 SAN ANTONIO, TX 78221



Drawn By: CDSm
 Checked By: SL
 Job Number: 23-09

SITE DETAILS

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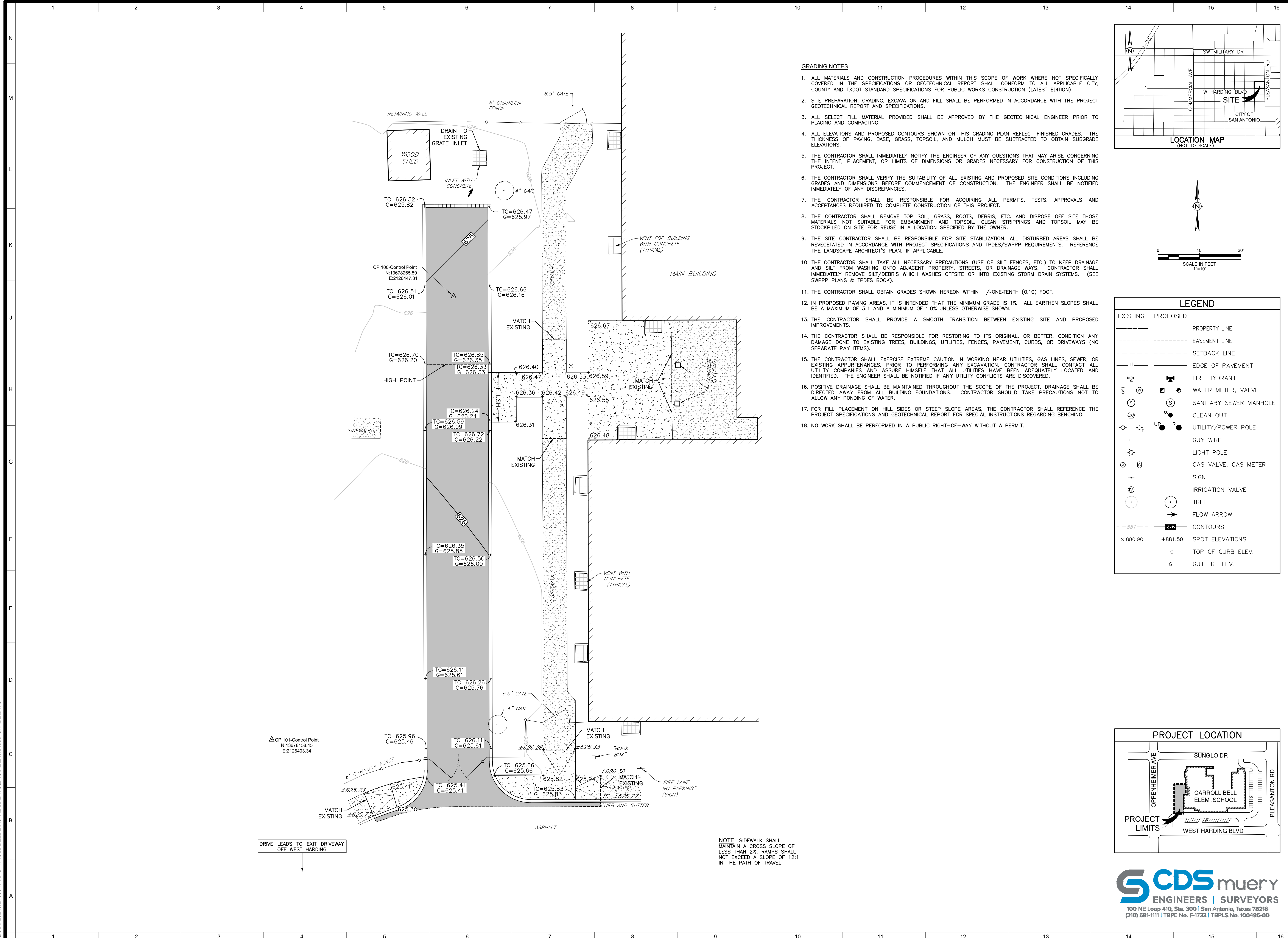
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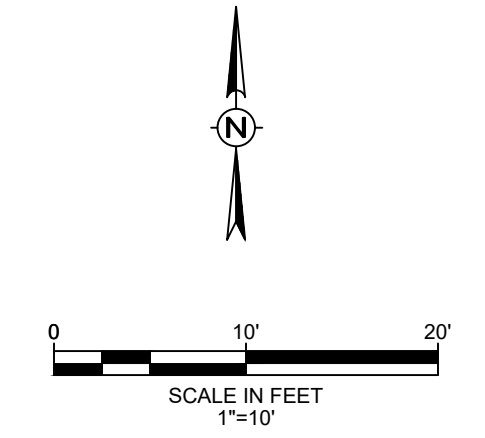
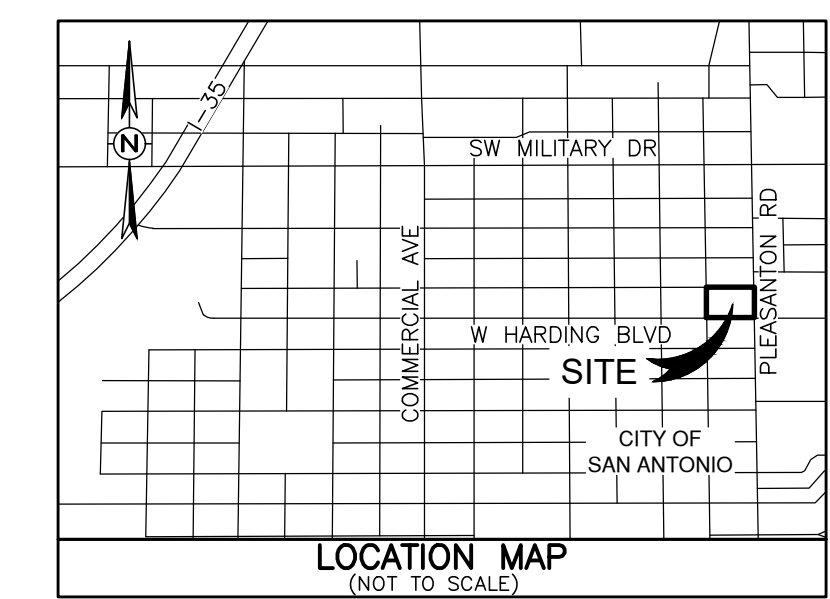
CDS muery
 ENGINEERS | SURVEYORS
 100 NE Loop 410, Ste. 300 | San Antonio, Texas 78216
 (210) 581-1111 | TBPE No. F-1733 | TBPLS No. 100495-00

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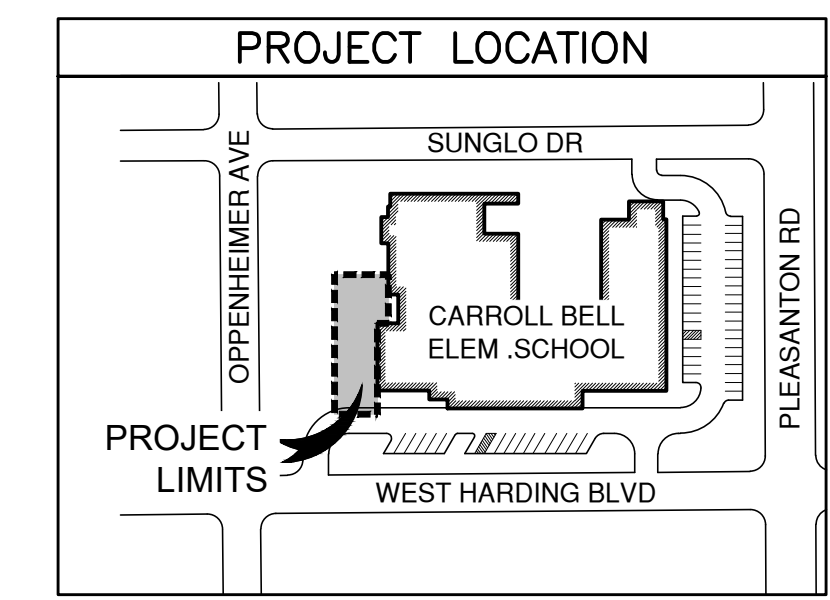
- GRADING NOTES**
1. ALL MATERIALS AND CONSTRUCTION PROCEDURES WITHIN THIS SCOPE OF WORK WHERE NOT SPECIFICALLY COVERED IN THE SPECIFICATIONS OR GEOTECHNICAL REPORT SHALL CONFORM TO ALL APPLICABLE CITY, COUNTY AND TxDOT STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (LATEST EDITION).
 2. SITE PREPARATION, GRADING, EXCAVATION AND FILL SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT GEOTECHNICAL REPORT AND SPECIFICATIONS.
 3. ALL SELECT FILL MATERIAL PROVIDED SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACING AND COMPACTING.
 4. ALL ELEVATIONS AND PROPOSED CONTOURS SHOWN ON THIS GRADING PLAN REFLECT FINISHED GRADES. THE THICKNESS OF PAVING, BASE, GRASS, TOPSOIL, AND MULCH MUST BE SUBTRACTED TO OBTAIN SUBGRADE ELEVATIONS.
 5. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY QUESTIONS THAT MAY ARISE CONCERNING THE INTENT, PLACEMENT, OR LIMITS OF DIMENSIONS OR GRADES NECESSARY FOR CONSTRUCTION OF THIS PROJECT.
 6. THE CONTRACTOR SHALL VERIFY THE SUITABILITY OF ALL EXISTING AND PROPOSED SITE CONDITIONS INCLUDING GRADES AND DIMENSIONS BEFORE COMMENCEMENT OF CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES.
 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING ALL PERMITS, TESTS, APPROVALS AND ACCEPTANCES REQUIRED TO COMPLETE CONSTRUCTION OF THIS PROJECT.
 8. THE CONTRACTOR SHALL REMOVE TOP SOIL, GRASS, ROOTS, DEBRIS, ETC. AND DISPOSE OFF SITE THOSE MATERIALS NOT SUITABLE FOR EMBANKMENT AND TOPSOIL. CLEAN STRIPPINGS AND TOPSOIL MAY BE STOCKPILED ON SITE FOR REUSE IN A LOCATION SPECIFIED BY THE OWNER.
 9. THE SITE CONTRACTOR SHALL BE RESPONSIBLE FOR SITE STABILIZATION. ALL DISTURBED AREAS SHALL BE REVEGETATED IN ACCORDANCE WITH PROJECT SPECIFICATIONS AND TPDES/SWPPP REQUIREMENTS. REFERENCE THE LANDSCAPE ARCHITECT'S PLAN, IF APPLICABLE.
 10. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS (USE OF SILT FENCES, ETC.) TO KEEP DRAINAGE AND SILT FROM WASHING ONTO ADJACENT PROPERTY, STREETS, OR DRAINAGE WAYS. CONTRACTOR SHALL IMMEDIATELY REMOVE SILT/DEBRIS WHICH WASHES OFFSITE OR INTO EXISTING STORM DRAIN SYSTEMS. (SEE SWPPP PLANS & TPDES BOOK).
 11. THE CONTRACTOR SHALL OBTAIN GRADES SHOWN HEREON WITHIN +/- ONE-TENTH (0.10) FOOT.
 12. IN PROPOSED PAVING AREAS, IT IS INTENDED THAT THE MINIMUM GRADE IS 1% ALL EARTHEN SLOPES SHALL BE A MAXIMUM OF 3:1 AND A MINIMUM OF 1.0% UNLESS OTHERWISE SHOWN.
 13. THE CONTRACTOR SHALL PROVIDE A SMOOTH TRANSITION BETWEEN EXISTING SITE AND PROPOSED IMPROVEMENTS.
 14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING TO ITS ORIGINAL, OR BETTER, CONDITION ANY DAMAGE DONE TO EXISTING TREES, BUILDINGS, UTILITIES, FENCES, PAVEMENT, CURBS, OR DRIVEWAYS (NO SEPARATE PAY ITEMS).
 15. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN WORKING NEAR UTILITIES, GAS LINES, SEWER, OR EXISTING APPURTENANCES. PRIOR TO PERFORMING ANY EXCAVATION, CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES AND ASSURE HIMSELF THAT ALL UTILITIES HAVE BEEN ADEQUATELY LOCATED AND IDENTIFIED. THE ENGINEER SHALL BE NOTIFIED IF ANY UTILITIES CONFLICTS ARE DISCOVERED.
 16. POSITIVE DRAINAGE SHALL BE MAINTAINED THROUGHOUT THE SCOPE OF THE PROJECT. DRAINAGE SHALL BE DIRECTED AWAY FROM ALL BUILDING FOUNDATIONS. CONTRACTOR SHOULD TAKE PRECAUTIONS NOT TO ALLOW ANY PONDING OF WATER.
 17. FOR FILL PLACEMENT ON HILL SIDES OR STEEP SLOPE AREAS, THE CONTRACTOR SHALL REFERENCE THE PROJECT SPECIFICATIONS AND GEOTECHNICAL REPORT FOR SPECIAL INSTRUCTIONS REGARDING BENCHING.
 18. NO WORK SHALL BE PERFORMED IN A PUBLIC RIGHT-OF-WAY WITHOUT A PERMIT.

NOTE: SIDEWALK SHALL MAINTAIN A CROSS SLOPE OF LESS THAN 2%. RAMPS SHALL NOT EXCEED A SLOPE OF 12:1 IN THE PATH OF TRAVEL.



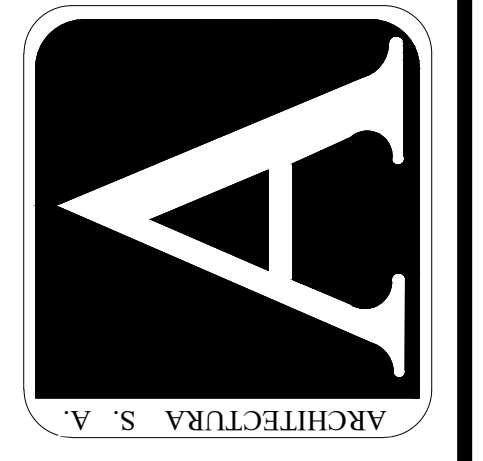
LEGEND

| EXISTING | PROPOSED | DESCRIPTION |
|----------|----------|------------------------|
| --- | --- | PROPERTY LINE |
| - - - - | - - - - | EASEMENT LINE |
| - - - - | - - - - | SETBACK LINE |
| | | EDGE OF PAVEMENT |
| ⊕ | ⊕ | FIRE HYDRANT |
| ⊕ | ⊕ | WATER METER, VALVE |
| ⊕ | ⊕ | SANITARY SEWER MANHOLE |
| ⊕ | ⊕ | CLEAN OUT |
| ⊕ | ⊕ | UTILITY/POWER POLE |
| ⊕ | ⊕ | GUY WIRE |
| ⊕ | ⊕ | LIGHT POLE |
| ⊕ | ⊕ | GAS VALVE, GAS METER |
| ⊕ | ⊕ | SIGN |
| ⊕ | ⊕ | IRRIGATION VALVE |
| ⊕ | ⊕ | TREE |
| → | → | FLOW ARROW |
| - - - - | - - - - | CONTOURS |
| × 880.90 | +881.50 | SPOT ELEVATIONS |
| TC | TC | TOP OF CURB ELEV. |
| G | G | GUTTER ELEV. |



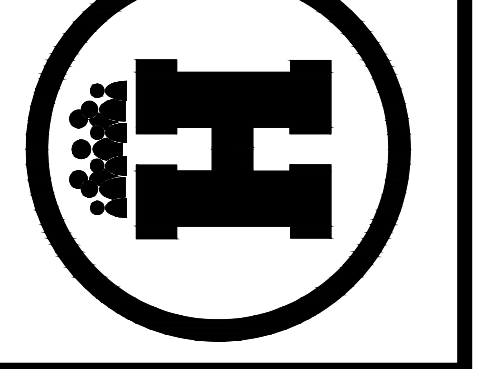
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90% PROGRESS SET
 CDS Muery F-1733



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 ARCHITECTURE INTERIOR DESIGN PLANNING
 17038 REDLAND RD., SUITE 101, SAN ANTONIO, TEXAS 78247
 t. 210.384.8200 f. 210.319.3555
 architecturasa@yahoo.com

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 HARLANDALE INDEPENDENT SCHOOL DISTRICT
 519 W HARDING BLVD.
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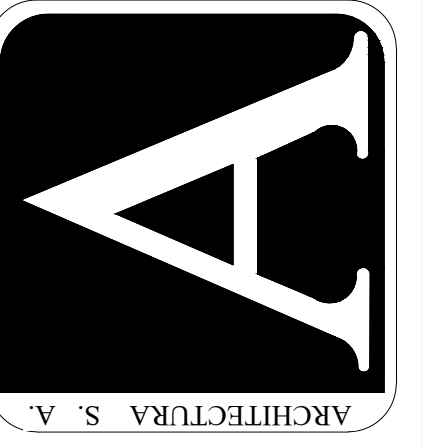
Drawn By: CDSm
 Checked By: SL
 Job Number: 23-09

SITE GRADING AND DRAINAGE

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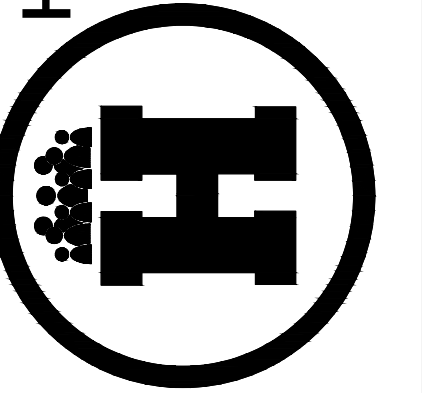
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ARCHITECTURA S.A., INC.
 ARCHITECTURE INTERIOR DESIGN PLANNING
 1708 REDLAND RD., SUITE 101, SAN ANTONIO, TEXAS 78247
 t. 210.384.8200 f. 210.319.3555
 architecturasa@yahoo.com

**HISD CAREER TECHNOLOGY
 EDUCATION (CTE)**
 HARLANDALE INDEPENDENT SCHOOL DISTRICT
 519 W HARDING BLVD.
 SAN ANTONIO, TX 78221



Drawn By: Author
 Checked By: Checker
 Job Number: 23-09

**LIFE SAFETY
 NOTES**

| No. | DATE | DESCRIPTION |
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Date: 01/31/2024

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- Applicable Codes**
- 2021 International Existing Building Code
 - 2021 International Building Code
 - 2021 International Fire Code
 - 2021 International Mechanical Code
 - 2021 International Plumbing Code
 - 2020 National Electrical Code
 - 2021 International Fuel Gas Code
 - 2021 International Energy Conservation Code
 - 2019 NFPA 13
 - 2019 NFPA 72
 - COSA Amendments

- Basic Building Information**
- The project is a renovation of an existing elementary school, soon to become a vocational school. Proposed changes include turning the 1st floor cafeteria, library, and some classrooms into shops (welding, plumbing, electrical, HVAC, barber and dental assisting) as noted on the project documents. Renovations are limited to 1st floor only. There will not be any additions constructed as part of this scope of work.
- Building:**
 - Type of Construction: Type IIB
 - Height in Stories: 2
 - Height in Feet: > 30-ft
 - Area: 66,046 sf
 - 1st: 39,926 sf
 - 2nd: 26,120 sf
 - Primary Occupancy: E
 - Automatic Sprinkler System: NFPA 13 sprinkler system
 - Fire Alarm: Emergency Voice Alarm Communication System
 - Calculated Occupant Load: 1,642 occupants
 - 1st floor:
 - Previous permit documents: 1,104 occupants
 - Reduction per renovations: -318 occupants
 - Total new 1st floor occupant load: 786 occupants
 - 2nd floor: 856 occupants (existing unchanged)
 - # of Exits/exit accesses and exit capacity:
 - 1st: 9; 3,840 occupants
 - 2nd: 3; 900 occupants
 - Noted Labs: Smoke resistant (IBC 509)

- Site Fire Department Access**
- No change to existing fire department access.

- Building and Area**
- No change to building area.

- Interior Wall and Ceiling Finishes**
- Group E Interior Wall/Ceiling Finishes:**
 - Rooms: Minimum Class C

- Corridors: Minimum Class C
 - Exits: Minimum Class B
 - Attachment: To comply with IBC Section 803.11
- Decorative materials and trim must comply with IBC 806.
 - Interior Floor Finishes: To comply with IBC Section 804

- Fire Protection Systems**
- Supervisory service:** Automatic sprinkler and fire alarm systems must be monitored by an approved supervising agency.
 - Automatic Sprinkler System:** Building to be equipped throughout with an automatic sprinkler system in accordance with NFPA 13 and IBC 903.
 - Commercial Cooking Equipment:** If commercial cooking equipment is installed, it will be required to be equipped with a Type I hood and suppression system as required by the IFC.
 - Portable Fire Extinguishers:**
 - Portable fire extinguishers are required in accordance with IBC Section 906, NFPA 10 and as follows:
 - Class K extinguishers must be provided within 30-ft of commercial cooking equipment
 - Within special hazard rooms
 - Type:** Portable fire extinguishers must be minimum 2A-10BC and an individual extinguisher cannot serve an area larger than 3,000 ft².
 - Number and Location:** Final number and location shall be as required by the local fire code official. Maximum travel distance to an extinguisher shall not exceed 75-ft.
 - Conspicuous location.** Portable fire extinguishers shall be located in conspicuous locations where they will have ready access and be immediately available for use. These locations shall be along normal paths of travel, unless the fire code official determines that the hazard posed indicates the need for placement away from normal paths of travel.
 - Unobstructed and unobscured.** Portable fire extinguishers shall not be obstructed or obscured from view. In rooms or areas in which visual obstruction cannot be completely avoided, means shall be provided to indicate the locations of extinguishers.
 - Hangers and brackets.** Hand-held portable fire extinguishers, not housed in cabinets, shall be installed on the hangers or brackets supplied. Hangers or brackets shall be securely anchored to the mounting surface in accordance with the manufacturer's installation instructions.
 - Cabinets.** Cabinets used to house portable fire extinguishers shall not be locked. **Exceptions:** 1. Where portable fire extinguishers subject to malicious use or damage are provided with a means of ready access. 2. In Group I-3 occupancies and in mental health areas in Group I-2 occupancies, access to portable fire extinguishers shall be permitted to be locked or to be located in staff locations provided that the staff has keys.
 - Extinguisher installation.** The installation of portable fire extinguishers shall be in accordance with the following:
 - Extinguishers weighing 40 pounds or less.** Portable fire extinguishers having a gross weight not exceeding 40 pounds (18 kg) shall be installed so that their tops are not more than 5 feet (1524 mm) above the floor.
 - Extinguishers weighing more than 40 pounds.** Hand-held portable fire extinguishers having a gross weight exceeding 40 pounds (18 kg) shall be installed so that their tops are not more than 3.5 feet (1067 mm) above the floor.
 - Floor clearance.** The clearance between the floor and the bottom of installed hand-held portable fire extinguishers shall be not less than 4 inches (102 mm).
 - Wheeled units.** Wheeled fire extinguishers shall be conspicuously located in a designated location.
 - Fire Alarm Systems:**
 - The building is to be equipped throughout with an emergency voice alarm communication system in accordance with IBC 907 and NFPA 72.

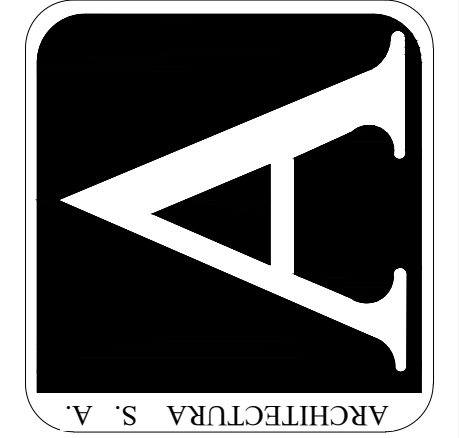
- Manual pull stations are not required, except a single pull station in an approved location, where the building is equipped throughout with an automatic sprinkler system and occupant notification appliances will activate upon sprinkler water flow.
- Emergency Responder Safety Features:**
 - Vertical shafts must be identified in accordance with IBC 914
 - Fire protection equipment rooms must be identified in an approved manner.
 - Emergency Responder Radio Coverage:** Must be provided in accordance with IFC Section 510 and COSA Amendments

Chapter 10 – Means of Egress

The following is applicable to the renovated areas.

- Minimum Ceiling Heights**
 - Means of egress must have a ceiling height of at least 7-ft, 6-inches unless meeting an exception of IBC 1003.
- Protruding objects**
 - Provide minimum 80-inches for any walking surface
 - Not more than 50% of the means of egress can be reduced in height by a protruding object
 - Freestanding object mounted on a post cannot overhang the post by more than 4-inches where the lowest point of the leading edge is more than 27-inches and less than 80-inches above the walking surface.
 - Structural elements, fixtures, or furnishings cannot project horizontally from either side more than 4-inches over any walking surface between the heights of 27-inches and 80-inches above the walking surface.
- Occupant Loads**
 - Occupant loads must be calculated in accordance with IBC 1004 based on the use of any given space.
 - Unconcentrated assembly: 1 occupant / 15 ft²
 - Kitchen: 1 occupant / 200 ft²
 - Business: 1 occupant / 150 ft²
 - Classroom: 1 occupant / 20 ft²
 - Labs: 1 occupant / 50 ft²
- Means of Egress (MOE) Sizing**
 - Stairways must be at least 44-inches wide, but not less than 0.2-inches per occupant served.
 - Other egress components must provide not less than 0.15-inches of clear width per occupant served.
- MOE Distribution**
 - Where more than one exit or access to an exit is required, the MOE must be sized such that the loss of any one exit, or access to any one exit, does not reduce the available capacity to less than 50% of the required capacity.
- Encroachment**
 - Doors, when fully opened, cannot reduce the required width by more than 7-inches.
 - Doors in any position cannot reduce the required width by more than one-half.
- MOE Illumination**
 - Means of egress illumination.** Illumination shall be provided in the means of egress in accordance with Section. Under emergency power, means of egress illumination shall comply with Section 1008.3.
 - Illumination required.** The means of egress serving a room or space shall be illuminated at all times that the room or space is occupied. **Exceptions:** 1. Occupancies in Group U. 2. Aisle accessways in Group A. 3. Dwelling units and sleeping units in Groups R-1, R-2 and R-3. 4. Sleeping units of Group I occupancies.
 - Illumination level under normal power.** The means of egress illumination level shall be not less than 1 footcandle (11 lux) at the walking surface. Along exit access stairways, exit stairways and at their required landings, the illumination level shall not be less than 10 footcandles (108 lux) at the walking surface when the stairway is in use. **Exception:** For auditoriums, theaters, concert or opera halls and similar assembly occupancies, the illumination at the walking surface is permitted to be reduced during performances by one of the following methods provided that the required illumination is automatically restored upon activation of a premises' fire alarm system: 1. Externally illuminated walking surfaces shall be permitted to be illuminated to not less than 0.2 footcandle (2.15 lux). 2. Steps, landings and the sides of ramps shall be

- permitted to be marked with self-luminous materials in accordance with Sections 1025.2.1, 1025.2.2 and 1025.2.4 by systems listed in accordance with UL 1994.
- Group I-2.** In Group I-2 occupancies where two or more exits are required, on the exterior landings required by Section 1010.1.5, means of egress illumination levels for the exit discharge shall be provided such that failure of a single lamp in a luminaire shall not reduce the illumination level on that landing to less than 1 footcandle (11 lux).
 - Exit discharge.** Illumination shall be provided along the path of travel for the exit discharge from each exit to the public way. Exception: Illumination shall not be required where the path of the exit discharge meets both of the following requirements: 1. The path of exit discharge is illuminated from the exit to a safe dispersal area complying with Section 1028.5. 2. A dispersal area shall be illuminated to a level not less than 1 footcandle (11 lux) at the walking surface.
 - Emergency power for illumination.** The power supply for means of egress illumination shall normally be provided by the premises' electrical supply.
 - General.** In the event of power supply failure in rooms and spaces that require two or more exits or access to exits, an emergency electrical system shall automatically illuminate all of the following areas: 1. Aisles. 2. Corridors. 3. Exit access stairways and ramps.
 - Buildings.** In the event of power supply failure in buildings that require two or more exits or access to exits, an emergency electrical system shall automatically illuminate all of the following areas: 1. Interior exit access stairways and ramps. 2. Interior and exterior exit stairways and ramps. 3. Exit passageways. 4. Vestibules and areas on the level of discharge used for exit discharge in accordance with Section 1028.2. 5. Exterior landings as required by Section 1010.1.5 for exit doorways that lead directly to the exit discharge.
 - Rooms and spaces.** In the event of power supply failure, an emergency electrical system shall automatically illuminate all of the following areas: 1. Electrical equipment rooms. 2. Fire command centers. 3. Fire pump rooms. 4. Generator rooms. 5. Public restrooms with an area greater than 300 square feet (27.87 m²). Student occupancy rooms without windows.
 - Duration.** The emergency power system shall provide power for a duration of not less than 90 minutes and shall consist of storage batteries, unit equipment or an on-site generator. The installation of the emergency power system shall be in accordance with Section 2702.
 - Illumination level under emergency power.** Emergency lighting facilities shall be arranged to provide initial illumination that is not less than an average of 1 footcandle (11 lux) and a minimum at any point of 0.1 footcandle (1 lux) measured along the path of egress at floor level. Illumination levels shall be permitted to decline to 0.6 footcandle (6 lux) average and a minimum at any point of 0.06 footcandle (0.6 lux) at the end of the emergency lighting time duration. A maximum-to-mini-mum illumination uniformity ratio of 40 to 1 shall not be exceeded.
- Accessible MOE**
 - All buildings or portions of buildings must comply with the accessibility standards adopted by the State. Projects shall be submitted to the Texas Department of Licensing and Regulation (TDLR) for review, inspection and approval in accordance with state law.
 - Doors**
 - Doors must provide a minimum clear width of 32-inches.
 - MOE doors must be side hinged swinging unless a specific exception of IBC Section 1010.1.2 is met.
 - The force for pushing or pulling open an interior MOE door, other than a fire door, cannot exceed 5 pounds. Other swinging doors, sliding doors, and folding doors, the door must release when subjected to 15-pounds of force. The door must be set in motion when subjected to a 30-pound force. The door must swing to a full open position when subjected to a 15-pound force.
 - Landings**
 - A landing must be provided on each side of a door.
 - The landing must have a width not less than the stairway or door whichever is greater.
 - Doors in the fully open position cannot reduce the required landing dimensions by more than 7-inches.
 - Doors in any position cannot reduce the required landing width by more than one-half.
 - Landings must have a length, measured in the direction of travel, of not less than 44-inches.
 - Door Arrangement**

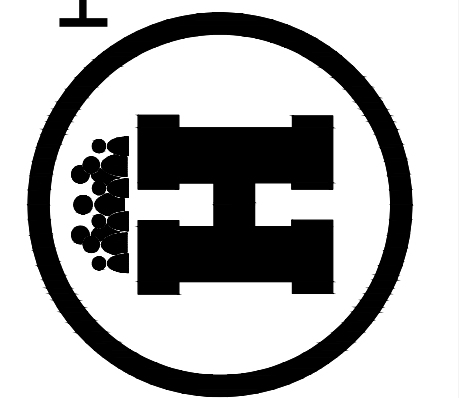


ARCHITECTURA S.A., INC.
ARCHITECTURE INTERIOR DESIGN PLANNING
17038 REDLAND RD., SUITE 101, SAN ANTONIO, TEXAS 78247

t. 210.384.8200 f. 210.319.3555
architecturasa@yahoo.com

HISD CAREER TECHNOLOGY
EDUCATION (CTE)

HARLANDALE INDEPENDENT SCHOOL DISTRICT
5119 W HARDING BLVD.
SAN ANTONIO, TX 78221



Drawn By: Author
Checked By: Checker
Job Number: 23-09

LIFE SAFETY
NOTES

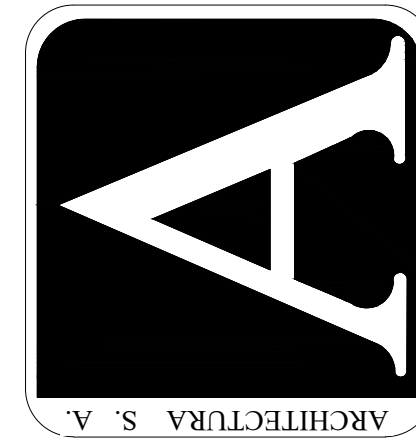
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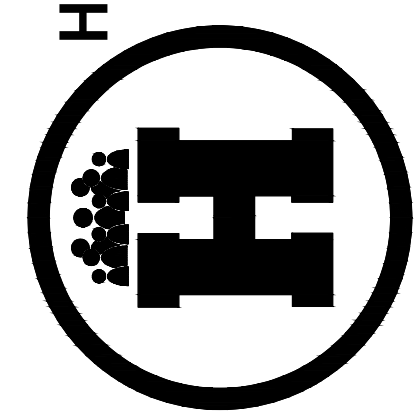
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- i. The space between two doors in a series must be at least 48-inches, plus the width of a door swinging into the space. Two doors in a series must always swing in the same direction.
- f. **Door Operations**
 - i. Must comply with IBC 1010.1.9
 - ii. Panic hardware or fire exit hardware required on all doors serving a Group H Occupancy, electrical rooms with equipment over 1,200 amps and 6-ft, and a Group A occupancy space with a calculated occupant load exceeding 49.
- 10. **Stairways**
 - a. Stair materials can be of any material permitted by the building type of construction.
 - b. **Width**
 - i. 44-inches
 - ii. Not less than 0.2-inches per occupant of clear width measured at the walking surface
 - c. **Headroom**
 - i. Minimum 80-inches
 - d. **Treads and Risers**
 - i. Riser heights must be 4-inch minimum and 7-inch maximum.
 - ii. Tread depths must be 11-inches minimum.
 - iii. Stair treads and risers must be uniform.
 - iv. Risers must be solid except in Group I-3, F, H, or S occupancies in areas that are not accessible to the public.
 - e. **Landings**
 - i. A landing is required at the top and bottom of each stairway.
 - ii. The width of landing cannot be less than the width of the stairway it serves.
 - iii. The landing must have a minimum dimension, measured in the direction of travel, equal to the width of the stair.
 - iv. Doors opening onto a landing cannot reduce the landing to less than one-half the required width.
 - v. Doors, when fully opened, cannot project more than 7-inches into a landing.
 - f. **Enclosures Under Interior Stairways**
 - i. The walls and soffits of enclosed usable spaces under enclosed and unenclosed stairways must be protected by 1-hour fire resistance rated construction or the fire resistance rating of the stair enclosure, whichever is greater.
 - g. **Vertical Rise**
 - i. Cannot exceed 12-ft between floor levels or landings
 - h. **Handrails**
 - i. Required on both sides of the stairway
 - ii. Must comply with IBC 1014
 - i. **Guards**
 - i. Are required when portions of a ramp are located more than 30-inches above the floor or grade below and must comply with IBC 1015
- 11. **Ramps**
 - a. Must be of construction consistent with the type of building construction
 - b. Ramps cannot have a running slope exceeding 8%.
 - c. Ramps cannot have a cross slope exceeding 2%.
 - d. The maximum vertical rise for any ramp run cannot exceed 30-inches.
 - e. The minimum width of the ramp must comply with the minimum corridor width requirements of IBC 1020, but a clear width of at least 36-inches measured between the handrails must be provided.
 - f. **Landings**
 - i. Required at the top and bottom of each ramp
 - ii. Must be at least as wide as the ramp
 - iii. Must be at least 48-inches measured in the direction of travel
 - iv. Where a change of direction occurs at landings between ramp runs, the landing must be at least 60-inches x 60-inches.
 - g. Handrails are required on both sides of the ramp in accordance with IBC 1014.
- h. **Edge Protection**
 - i. A curb, rail, wall or barrier must be provided as edge protection.
 - ii. Must be at least 4-inches in height
 - iii. Must not allow the passage of a 4-inch diameter sphere where any portion of the sphere is within 4 inches of the floor or ground surface.
- i. **Guards**
 - i. Are required when portions of a ramp are located more than 30-inches above the floor or grade below.
- 12. **Exit Signage**
 - a. Exits and exit access doors must be marked by an approved exit sign that is readily visible from any direction of travel.
 - b. The path of travel to exits and within exits must be marked by a readily visible exit sign to indicate the direction of travel where the location of the exit or the path of travel is not immediately visible to occupants.
 - c. Intervening MOE doors within exits must be marked by an exit sign.
 - d. Exit signage must be located within corridors such that the maximum spacing does not exceed 100-ft or the listed viewing distance of the sign, whichever is less.
 - e. Exit signs are not required in rooms that require only one exit or exit access.
 - f. Exit signs are not required for main exterior exit doors that are obviously and clearly identifiable as exits where approved by the building code official.
 - g. Exit signs must be internally or externally illuminated in accordance with IBC 1013
- 13. **Handrails**
 - a. Required on both sides of the stairway or ramp
 - b. Located between 34-inches and 38-inches above the tread
 - c. Grasp-ability to comply with IBC 1014
 - d. **Continuity**
 - i. Must be continuous without interruption
 - ii. Must return to the wall, guard, or walking surface or be continuous to the handrail of an adjacent stair flight or ramp run.
 - iii. Where not continuous between flights, handrails must extend at least 12-inches horizontally beyond the top riser and continue to slope for the depth of one tread beyond the bottom riser.
 - iv. At ramps where handrails are not continuous between runs, the handrails must extend at least 12-inches horizontally beyond the top and bottom of ramp runs.
 - e. **Clearance**
 - i. Minimum 1.5-inch clear space between handrail and wall
 - f. **Projections**
 - i. Ramps must have a minimum clear width of 36-inches measured between the handrails.
 - ii. Projections into the required width of stairways cannot exceed 4.5-inches at or below the handrail height.
 - iii. Projections due to intermediate handrails are not considered a reduction in egress width.
- 14. **Guards**
 - a. Minimum 42-inch high guards are required along open sided walking surfaces, including mezzanines, equipment platforms, stairs, ramps and landings that are located more than 30-inches vertically above any floor or grade below.
 - b. Unless an exception of IBC 1015 is met, guards cannot have openings that allow the passage of a sphere 4-inches in diameter from the walking surface to the guard height.
 - c. Guards are required at roofs and other elevated locations where equipment is located within 10-ft of the edge.
- 15. **Exit Access**
 - a. **Intervening Rooms:**
 - i. Egress is permitted through intervening rooms where the intervening room and the area served are accessory to one another, the door into and out of the intervening room is not capable of being locked, and the intervening room is not a storage room, kitchen or of a similar type use.
- b. **Common Path of Travel (CPT):**
 - i. Group B: 100-ft
 - ii. Group E and A: 75-ft
- c. **Exits and Exit Access Doorways:**
 - i. More than 49 occupants: 2-exits or exit access doorways required for Group A, B, E, F, and M occupancies
 - ii. More than 29 occupants: 2-exits or exit access doorways required for Group S occupancies
 - iii. 2-exits required where the maximum common path of travel is exceeded
 - iv. 2-exits required from boiler, incinerator, and furnace rooms that are over 500 ft², and have any fuel-fired equipment exceeds 400,000 Btu input capacity.
- d. **Travel Distance:** Group E – 250-ft; Group B – 300-ft
- e. **Corridors**
 - i. **Fire Resistance Rating:** None
 - ii. **Width:** Minimum 72-inches (Serving more than 100 Group E occupants) but not less than 0.15-inches x the occupant load served for other occupancies.
- iii. **Dead Ends:**
 - 1. Max. 20-ft: Group A
 - 2. Max. 50-ft: Group B and E



ARCHITECTURA S.A., INC.
 ARCHITECTURE INTERIOR DESIGN PLANNING
 17038 REDLAND RD., SUITE 101, SAN ANTONIO, TEXAS 78247
 t. 210.384.8200 f. 210.319.3555
 architecturasaa@yahoo.com

HISD CAREER TECHNOLOGY EDUCATION (CTE)
 HARLANDALE INDEPENDENT SCHOOL DISTRICT
 5119 W HARDING BLVD.
 SAN ANTONIO, TX 78221



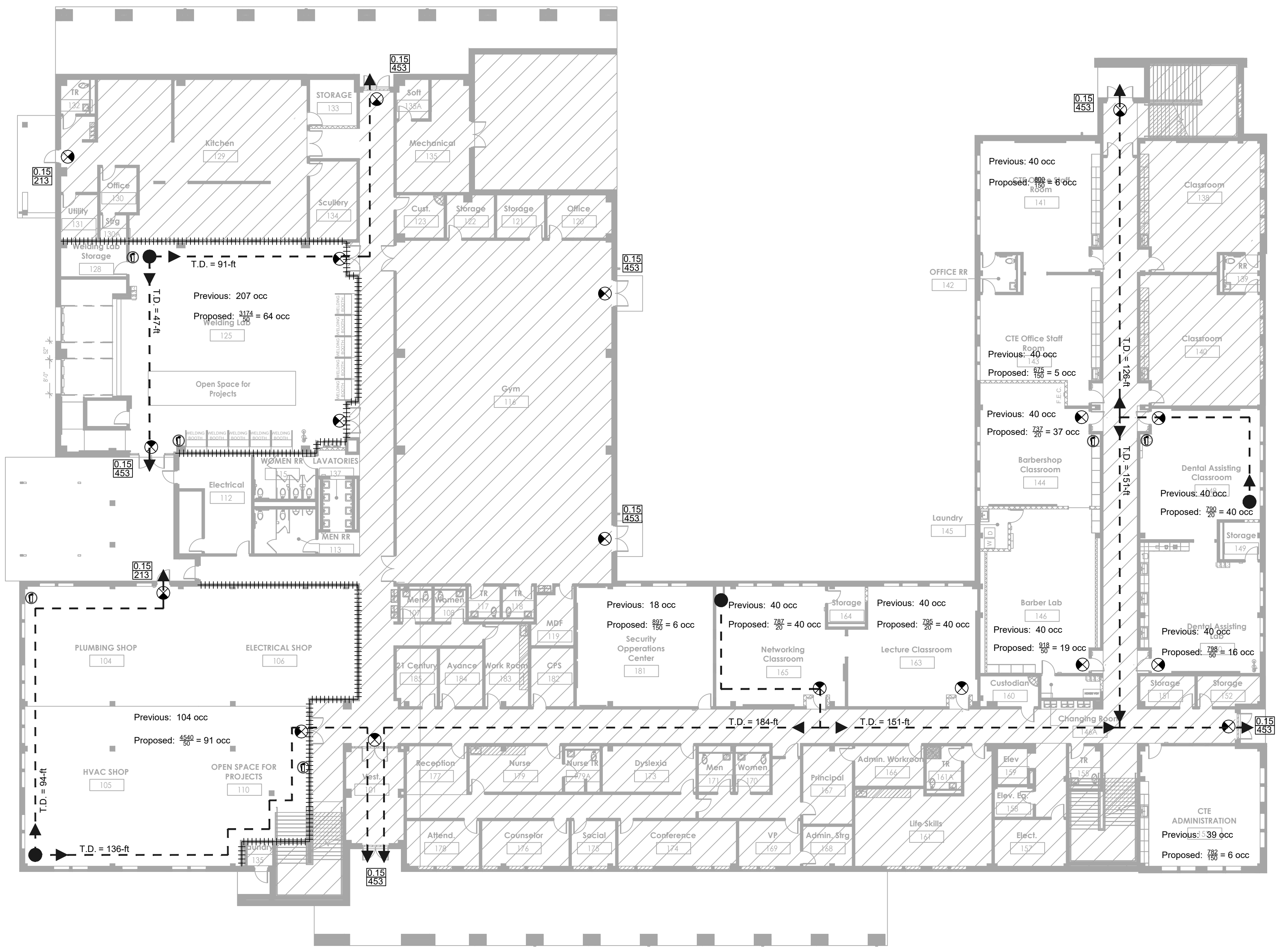
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LIFE SAFETY PLAN

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Date: 01/31/2024
 Drawing No:

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SYMBOLS & ABBREVIATIONS

- EGRESS FACTOR
EGRESS CAPACITY (# OCCUPANTS)
- TRAVEL DISTANCE (T.D.)
- SMOKE RESISTANT (IBC 509)
- EXIT SIGNAGE (Primary exit access doors and exits identified only. See electrical plans/specifications for final #, location, type, & directional indicators)
- PORTABLE FIRE EXTINGUISHER (Proposed locations. Coordinate final required # & location with fire code official)

RATED WALL STENCILING

Marking and identification. Where there is an accessible concealed floor, floor-ceiling or attic space, fire walls, fire barriers, fire partitions, smoke barriers and smoke partitions or any other wall required to have protected openings or penetrations shall be effectively and permanently identified with signs or stenciling in the concealed space. Such identification shall:

- Be located within 15-ft of the end of each wall and at intervals not exceeding 30-ft measured horizontally along the wall or partition.
- Include lettering not less than 3-in in height with a minimum 3/8-in stroke in a contrasting color incorporating the suggested wording, "FIRE AND/OR SMOKE BARRIER—PROTECT ALL OPENINGS," or other wording.

1 LIFE SAFETY PLAN - LEVEL 1
 SCALE: 1/16" = 1'-0"