

## GENERAL NOTES

- ALL WORK SHALL CONFORM TO THE CONTRACT DOCUMENTS WHICH INCLUDE THE OWNER/CONTRACTOR AGREEMENT, THE PROJECT MANUAL, THE DRAWINGS AND ALL ADDENDA AND MODIFICATIONS ISSUED BY THE ARCHITECT.
- THE CONTRACTOR SHALL REVIEW ALL DOCUMENTS AND VERIFY ALL DIMENSIONS AND FIELD CONDITIONS AND CONFIRM THAT WORK CAN BE CONSTRUCTED AS SHOWN, VERIFY LOCATIONS OF LIGHT FIXTURES, FIRE DAMPERS, ELECTRICAL OUTLETS, EXIT LIGHTS, SPRINKLER SYSTEM AND OTHER NECESSARY MECHANICAL, ELECTRICAL AND PLUMBING EQUIPMENT. SHOULD A CONFLICT OF REQUIREMENTS EXIST IN THE SPECIFICATIONS AND/OR DRAWINGS AND EXISTING CONDITIONS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY, PRIOR TO THE PERFORMANCE OF ANY WORK.
- THE CONTRACTOR SHALL BRING ALL REQUIRED UTILITY WORK WHICH HAS NOT BEEN NOTED IN THE CONSTRUCTION DOCUMENTS TO THE IMMEDIATE ATTENTION OF THE ARCHITECT, PRIOR TO THE PERFORMANCE OF ANY WORK.
- TYPICAL OR "TYP" SHALL MEAN THAT THE CONDITION IS REPRESENTATIVE FOR SIMILAR CONDITIONS THROUGHOUT UNLESS OTHERWISE NOTED. DETAILS ARE USUALLY KEYED AND NOTED "TYP" ONLY ONCE, WHEN IT FIRST OCCURS.
- WORK AREAS ARE TO REMAIN SECURE AND LOCKABLE DURING CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH TENANT AND LANDLORD TO ENSURE SECURITY.
- THE CONTRACTOR SHALL OBTAIN ALL PERMITS AND INSPECTIONS AND COMPLY WITH THE CODES, LAWS, ORDINANCES, RULES AND REGULATIONS OF ALL PUBLIC AUTHORITIES (FEDERAL, STATE, OR LOCAL) GOVERNING THE WORK. IN THE CASE OF AN OVERLAP IN THE GOVERNING CODES, THE MOST STRINGENT SHALL APPLY.
- IF GOVERNING JURISDICTION HAS RELOCATED ELEMENTS FROM LOCATIONS SHOWN ON ARCHITECTURAL DRAWINGS, VERIFY CHANGE WITH ARCHITECT AND OWNER PRIOR TO INSTALLATION.
- SOME PRODUCTS ARE SPECIFIED BY MANUFACTURER'S NAME AND MODEL NUMBER. THIS IS INTENDED TO ESTABLISH QUALITY DESIRED. PRODUCTS THAT ARE "EQUAL TO" WILL BE CONSIDERED. HOWEVER, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO SUBMIT PROOF, IF REQUIRED, OF THE SUBSTITUTION'S TECHNICAL CHARACTERISTICS WHICH MAKE IT EQUAL TO THOSE OF THE PRODUCT SPECIFIED.
- ALL WORK SHALL BE COORDINATED WITH THE LANDLORD INCLUDING SCHEDULING TIME AND LOCATIONS FOR DELIVERIES AND BUILDING ACCESS. DURING ALL PHASES OF WORK, MINIMUM DISTURBANCE OF BUILDING FUNCTIONS AND OCCUPANTS IS ESSENTIAL. ALL WORK INVOLVING EXCESSIVE NOISE, CORING OR X-RAYING MUST BE DONE AFTER HOURS.
- DRAWINGS ARE NOT TO BE SCALED.
- ALL DIMENSIONS ARE FROM FACE OF FINISH, FACE OF CONCRETE OR CENTER OF OBJECT UNLESS OTHERWISE NOTED.
- WITHIN THE LIMITS OF CONSTRUCTION, PATCH AND REPAIR ALL EXISTING WALLS AND SURFACES TO MEET APPLICABLE BUILDING CODES, AND TO MATCH EXISTING ADJACENT SURFACES WHERE POSSIBLE.
- TAS COMPLIANCE SHEETS (SEE SHEET LIST) ARE PROVIDED TO GIVE SUPPLEMENTAL INFORMATION SPECIFIC TO TEXAS ACCESSIBILITY STANDARD REQUIREMENTS. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND DETAILS FOR THE PROJECT WITH THE INFORMATION CONTAINED ON THESE SHEETS.

## MANUFACTURER'S CERTIFICATE

- SUBMIT PDF OF CERTIFICATES FOR THE ARCHITECT AND CONTRACTOR. INCLUDE ORIGINAL SIGNATURE.

## WARRANTY AND OPERATION

- ALL MANUFACTURED ARTICLES, MATERIALS AND EQUIPMENT SHALL BE APPLIED, INSTALLED, CONNECTED, ERECTED, CLEANED AND CONDITIONED PER MANUFACTURER'S INSTRUCTIONS. IN CASE OF DIFFERENCES BETWEEN THE MANUFACTURER'S INSTRUCTIONS AND THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT BEFORE PROCEEDING.
- ANY CONFLICTS BETWEEN OUR DRAWINGS OR SPECIFICATIONS AND THE MANUFACTURERS' RECOMMENDATIONS SHALL BE BROUGHT TO OUR ATTENTION FOR REVIEW BY THE CONTRACTOR AND SUB-CONTRACTORS. OUR INTENT IS THAT THERE BE NO CONFLICTS WITH MANUFACTURERS' RECOMMENDATIONS

## SHOP DRAWINGS

- SUBMIT PDF OF ALL SHOP DRAWINGS, AFTER REVIEW, REPRODUCE AND DISTRIBUTE ANY ADDITIONAL COPIES THAT MAY BE REQUIRED. SHEET SIZE: 8 1/2" X 11", MINIMUM 30" X 42" MAXIMUM.

## SUBMITTALS

- THE ARCHITECT'S REVIEW OF SUBMITTALS SHALL NOT RELIEVE THE CONTRACTOR FROM CONFORMANCE WITH THE CONTRACT DOCUMENTS OR IMPLY APPROVAL OF CHANGES TO THE CONTRACT DOCUMENTS, WHETHER OR NOT SUCH NONCONFORMANCE IS DISCOVERED IN THE SUBMITTALS.
- PRIOR TO COMMENCING SUBSTANTIAL PORTIONS OF THE WORK, PREPARE A MASTER SUBMITTAL LOG SHOWING EACH REQUIRED SUBMITTAL AND SPECIFICATION SECTION NUMBER, THE PROPOSED SCHEDULE AND SEQUENCING OF SUBMITTALS, AND EACH AFFECTED CONTRACTOR. MAINTAIN THE LOG CURRENT WITH THE PROGRESS OF THE WORK. PROVIDE A COPY OF THE INITIAL AND UPDATED LOG TO THE ARCHITECT.
- CONTRACTOR TO REVIEW SUBMITTALS TO VERIFY FOR COMPLIANCE AND INDICATE RESULTS OF REVIEW PRIOR TO SUBMITTING TO ARCHITECT.
- TRANSMIT EACH ITEM UNDER AIA FORM B10 OR A SIMILAR FORM, NUMBER EACH SUBMITTAL CONSECUTIVELY BASED UPON SPECIFICATION SECTION NUMBERS (I.E. 06400-1, 06400-2, 06400-3, ETC.) ATTACH OR INCLUDE A COVER WITH CONTRACTOR'S REVIEW STAMP, AND SIGN.
- IDENTIFY PROJECT, CONTRACTOR, SUBCONTRACTOR, MAJOR SUPPLIER, AND GENERIC NAME OF COMPONENT SYSTEM. ALLOW SPACE ON THE COVER SHEET TO ACCOMMODATE REQUIRED STAMPS BY EACH REVIEWER. PROVIDE ADDITIONAL SHEETS IF NECESSARY.
- IDENTITY DEVIATIONS FROM DRAWINGS AND SPECIFICATIONS AND INCLUDE A STATEMENT OF REASONS FOR DEVIATION. PROCESS IN ACCORDANCE WITH SECTION 01600 OF STANDARD SPECIFICATIONS.
- AFTER REVIEW OF SUBMITTAL, REVISE AND RESUBMIT IF SO INDICATED. IDENTIFY CHANGES MADE SINCE PREVIOUS SUBMITTAL.
- DISTRIBUTE COPIES OF REVIEWED SUBMITTALS TO CONCERNED CONTRACTORS. INSTRUCT RECIPIENTS TO PROMPTLY REPORT ANY INABILITY TO COMPLY WITH PROVISIONS.
- MAKE SUBMITTALS FAR ENOUGH IN ADVANCE OF SCHEDULED INSTALLATION DATES TO PROVIDE TIME REQUIRED FOR REVIEWS, FOR SECURING NECESSARY APPROVALS, FOR POSSIBLE REVISIONS AND RESUBMITTALS, AND FOR PLACING ORDERS AND SECURING DELIVERY.
- SUBMITTALS PROVIDED FOR WORK AND FOR WHICH NO REQUIREMENT FOR SUBMITTAL IS STATED IN THE DRAWINGS OR SPECIFICATIONS WILL BE RETURNED WITHOUT REVIEW.

## REQUEST FOR SUBSTITUTIONS

- SUBMIT SEPARATE REQUESTS FOR EACH PRODUCT AND SUPPORT EACH REQUEST WITH:
  - PRODUCT IDENTIFICATION.
  - MANUFACTURER'S LITERATURE.
  - SAMPLES, AS APPLICABLE.
  - NAME AND ADDRESS OF SIMILAR PROJECTS ON WHICH PRODUCT HAS BEEN USED, AND DATE OF INSTALLATION
- REASON FOR SUBSTITUTION
- ITEMIZE A COMPARISON OF THE PROPOSED SUBSTITUTION WITH PRODUCT SPECIFIED AND LIST SIGNIFICANT VARIATIONS.
- SUBMIT DATA RELATING TO CHANGES IN CONSTRUCTION SCHEDULE
- NOTE ANY EFFECT OF SUBSTITUTION ON THEIR WORK OR PRODUCTS OR ON SEPARATE CONTRACTS.
- INCLUDE ACCURATE COST COMPARISON OF PROPOSED AND ARCHITECT SPECIFIED ITEMS.
- SUBSTITUTIONS WILL NOT BE CONSIDERED WHEN:
  - THEY ARE INDICATED OR IMPLIED ON SUBMITTALS WITHOUT A FORMAL REQUEST.
  - ACCEPTANCE WILL REQUIRE SUBSTANTIAL REVISIONS OR DRAWINGS AND SPECIFICATIONS.
  - DO NOT ORDER OR PROVIDE SUBSTITUTE PRODUCTS WITHOUT APPROVAL.
  - BURDEN OF PROOF OF MERIT OF PROPOSED SUBSTITUTION IS THE RESPONSIBILITY OF THE CONTRACTOR.

## GENERAL DEMOLITION NOTES

- REMOVE ALL WALLS, CABINETS AND DOORS SHOWN DASHED ON DEMOLITION PLAN. REMOVE DESIGNATED COMPONENTS, BUILDING EQUIPMENT, FIXTURES ETC. AS REQUIRED FOR NEW CONSTRUCTION. ALL EXISTING CONSTRUCTION IS TO REMAIN NOTED OTHERWISE.
- THE ARCHITECT HAS NO KNOWLEDGE OF AND SHALL NOT BE HELD LIABLE FOR ANY ASBESTOS OR OTHER HAZARDOUS MATERIALS ON THE JOB SITE. IF ASBESTOS OR OTHER HAZARDOUS MATERIALS ARE DISCOVERED DURING CONSTRUCTION, THE CONTRACTOR SHALL ISOLATE THE AFFECTED AREA AND CONTACT BUILDING MANAGEMENT FOR FURTHER INSTRUCTIONS BEFORE PROCEEDING.
- COMPLY WITH APPLICABLE LOCAL, STATE AND FEDERAL CODES AND REGULATIONS PERTAINING TO SAFETY OF PERSONS, PROPERTY AND ENVIRONMENTAL PROTECTION.
- DO NOT INTERFERE WITH USE OF ADJACENT BUILDINGS OR TENANTS; MAINTAIN FREE AND SAFE PASSAGE TO AND FROM.
- PROVIDE, ERECT AND MAINTAIN BARRICADES, LIGHTING AND GUARDRAILS AS REQUIRED BY APPLICABLE CODES AND REGULATIONS TO PROTECT OCCUPANTS OF BUILDING AND WORKERS.
- ERECT AND MAINTAIN DUSTPROOF PARTITIONS AS REQUIRED TO PREVENT SPREAD OF DUST, FUMES AND SMOKE, ETC. TO OTHER PARTS OF THE BUILDING. UPON COMPLETION REMOVE PARTITIONS AND REPAIR DAMAGED SURFACES TO MATCH ADJACENT SURFACES.
- REPAIR ALL DEMOLITION PERFORMED IN EXCESS OF THAT REQUIRED. AT NO COST TO THE OWNER, CONTRACTOR IS RESPONSIBLE FOR RESTORING DAMAGES INCURRED THROUGH THE RELOCATION AND/OR REMOVAL OF ANY MATERIALS OR EQUIPMENT AND FOR PROVIDING ANY MODIFICATIONS NECESSARY TO RE-INSTALL MATERIALS OR EQUIPMENT IN THEIR NEW AND PROPER CONFIGURATION.
- REMOVE FROM SITE AND LEGALLY DISPOSE OF DAILY ALL REFUSE, DEBRIS, RUBBISH AND OTHER MATERIALS RESULTING FROM DEMOLITION OPERATIONS. BURNING OF DEBRIS ON SITE IS NOT PERMITTED.
- REMOVE TOOLS AND EQUIPMENT FROM SITE UPON COMPLETION OF WORK. LEAVE CONTRACT AREA AND SITE CLEAN, ORDERLY AND IN A CONDITION ACCEPTABLE FOR NEW OR OTHER CONSTRUCTION.
- WHERE EXISTING WALLS ARE TO BE REMOVED, PATCH AND REPAIR REHANGING WALLS WHICH HAVE BEEN REMOVED. WHERE WALLS ARE REMOVED AT WALL PANELS, REPLACE ALL PANELS DAMAGED BY DEMOLITION. CAREFULLY PEEL BACK EXISTING WALLCOVERING 2" OR TO THE NEAREST JOINT ON EACH SIDE AND REMOVE PORTION OF WALL REQUIRED TO INSTALL NEW DOOR AND FRAME.
- WHERE PATCHING OCCURS IN A SMOOTH PAINTED SURFACE, EXTEND FINAL PAINT COAT OVER ENTIRE UNBROKEN AREA CONTAINING THE PATCH. AFTER THE PATCHED AREA HAS RECEIVED PRIMER AND SECOND COAT.

## DRYWALL NOTES

- ALL VERTICAL AND HORIZONTAL EXTERNAL CORNERS OF GYPSUM BOARD SHALL HAVE CORNER REINFORCEMENTS PROVIDED. INSTALL CORNER BEADS WITH SUITABLE FASTENERS SPACED 9" ON CENTER MAXIMUM. INSTALL LAGGING BEADS WHERE GYPSUM SURFACES TERMINATE OR MEET DISSIMILAR MATERIALS.
- ALL JOINTS, SCREWS OR OTHER DEPRESSIONS IN SURFACES OF GYPSUM WALLBOARD SHALL BE TREATED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS USING TAPE SYSTEM. ALL JOINTS EXCEPT AS OTHERWISE NOTED, SHALL BE TAPE, BEDDED, AND SANDED SMOOTH, READY FOR A FINISHED WALL TREATMENT.
- FINISHED JOINTS SHALL NOT BE LESS THAN 1/4" IN WIDTH. JOINTS OF WALLBOARD ABOVE CEILINGS ARE REQUIRED TO BE TAPE ONLY UNLESS OTHERWISE REQUIRED BY FIRE OR SOUND RATINGS.
- FINISH DWY WALL CONSTRUCTION SHALL BE FREE OF NOTICEABLE DEFECTS WHICH INCLUDE: JOINT RIGID, STAINED, BOARD EDGES DAMAGED OR OUT OF PLANE, JOINT BLISTERS, NAIL POPS, PIN HOLES OR ANY OTHER NOTICEABLE DEFECT. FINISH WALLS SHALL BE TRUE TO LINE, PERFECTLY SMOOTH AND READY TO RECEIVE FINISH MATERIAL.

## PATCHING

- PATCH WITH DURABLE SEAMS THAT ARE AS INVISIBLE AS POSSIBLE. COMPLY WITH SPECIFIED TOLERANCES.
- WHERE REPAIRS ARE INSPECTED AND TEST PATCHED AREAS TO DEMONSTRATE INTEGRITY OF THE INSTALLATION, RESTORE EXPOSED FINISHES OF PATCHED AREAS AND EXTEND FINISH RESTORATION INTO RETAINED ADJOINING CONSTRUCTION IN A MANNER THAT ELIMINATE EVIDENCE OF PATCHING AND REFINISHING. WHERE REMOVAL OF WALLS OR PARTITIONS EXTENDS ONE FINISHED AREA INTO ANOTHER, PATCH AND REPAIR FLOOR AND WALL SURFACES IN THE NEW SPACE TO PROVIDE AN EVEN SURFACE OF UNIFORM COLOR AND APPEARANCE. REMOVE EXISTING FLOOR AND WALL COVERINGS AND REPLACE WITH NEW MATERIALS, IF NECESSARY TO ACHIEVE UNIFORM COLOR AND APPEARANCE.
- FLOOR FINISH TRANSITION TO OCCUR AT CENTERLINE OF DOOR OR CASED OPENING UNLESS OTHERWISE NOTED. REFER TO DOOR SCHEDULE FOR SILL DETAILS.
- INSPECT AREAS WHERE CARPET TRANSITIONS AT VCT FLOORING. FLASH PATCH AS REQUIRED TO SET TOP OF CARPET 1/4" ABOVE ADJACENT FINISH.

## ARCHITECTURAL WOODWORK

- STANDARDS: THE "QUALITY STANDARDS" OF THE ARCHITECTURAL WOODWORK INSTITUTE SHALL APPLY AND BY REFERENCE ARE HEREBY MADE A PART OF THIS SPECIFICATION. THE CONTRACTOR SHALL USE THE LATEST EDITION OF THE AWI QUALITY STANDARDS AS DEFINED IN THE LATEST EDITION OF THE AWI "QUALITY STANDARDS". ANY ITEM NOT GIVEN A SPECIFIC QUALITY GRADE SHALL BE CUSTOM GRADE AS DEFINED IN THE LATEST EDITION OF THE AWI "QUALITY STANDARDS".
- SHOP DRAWINGS. SUBMIT SHOP DRAWINGS
- SAMPLES: SUBMIT THREE (3) SAMPLES OF EACH WOOD SPECIES WHICH IS TO RECEIVE TRANSPARENT FINISH AT SITE, AS REQUESTED BY THE ARCHITECT.
- FIELD DIMENSIONS: SUBCONTRACTOR SHALL FIELD MEASURE ALL CRITICAL DIMENSIONS AND VERIFY FIT OF ALL APPLIANCES, PLUMBING FIXTURES, LIGHT FIXTURES, ETC. TO GUARANTEE PROPER FIT AND OPERATION OF ALL WOOD WORK.
- ALL MATERIAL SHALL BE CLEAN AND CLEAR, WITH NO VISIBLE SAP OR DEFECTS. FACE SURFACES SHALL BE CLOSELY MATCHING APPEARANCE. BLOCK DOOR JAMBS BEHIND BUTTS.
- CABINETS SHALL BE DELIVERED TO JOB SITE AND PROPERLY PROTECTED UNTIL INSTALLATION AND FINISHING. INSTALLATION SHALL BE PERFORMED BY THE TRIM CREW.
- ALL BLYWOOD IN CABINETS TO BE EDGED WITH 1/4" EDGE BAND ON ALL EXPOSED SIDES. EDGE MATERIAL TO MATCH PLYWOOD FACE MATERIAL.
- AWI QUALITY GRADE: CUSTOM CONSTRUCTION DETAILS SHALL CONFORM TO REVEAL OVERLAY DESIGN - EXPOSED SOLID WOOD PARTS: RED OAK, - EXPOSED PLYWOOD PARTS: RED OAK, - SEMI-EXPOSED PARTS: AS GOVERNED BY SELECTED AWI QUALITY GRADE
- HARDWARE:
  - DRAWER SLIDES: K&V 1300; RABBIT CONNECTIONS, GLUE WITH CONCEALED FASTENINGS OR AS SUPPLIED BY PREMANUFACTURED CABINET SUPPLIER.
  - ADJUSTABLE SHELVES: K & V 255; PILASTER STANDARDS AND 256 SUPPORTS, FLUSH SIDE MOUNTED, BRONZE FINISH
  - HINGES: SEMI-CONCEALED OR FULLY CONCEALED FOR FLUSH OVERLAY DESIGNS.

## PARTITION NOTES

- ALL DIMENSIONS FOR PARTITIONS ARE TO FINISH FACE OF PARTITION OR AS INDICATED. BUILDING STANDARD PARTITIONS SHALL BE CONSTRUCTED OF 2" METAL STUDS AT 24" ON CENTER WITH 1/2" ONE HOUR FIRE RESISTANT GYPSUM BOARD ON EACH SIDE.
- PARTITIONS SPECIFIED TO TERMINATE AT THE CEILING GRID ARE TO BE CONSTRUCTED SO AS TO HAVE THE TOP OF THE PARTITION FLUSH WITH THE BOTTOM EDGE OF THE GRID. RIBBON EDGES WILL BE REJECTED. TOP OF THE PARTITION IS TO BE FINISHED WITH RACO OR FRAMEWORKS. 1" BLACK EXTRUDED ALUMINUM HEAD TRACK, CEILING TILE IS TO BE RABBETED TO IT TO TOP OF PARTITION AND LAY PROPERLY INTO CEILING GRID.
- ALL DEMISING WALLS EXISTING AND NEW SHALL EXTEND TO DECK WITH SOUND ATTENTION ON BOTH SIDES. PARTITION TO BE FINISHED WITH RACO OR FRAMEWORKS 1" BLACK PR-21" REVEAL MOLDING.
- PROVIDE BRACING ABOVE CEILING HEIGHT PARTITIONS AT LONG UNBRACED LENGTHS, WHERE APPLICABLE AND AT ALL DOOR AND GLAZING OPENINGS IN ACCORDANCE TO MANUFACTURER'S RECOMMENDATIONS.
- PROVIDE NON-COMBUSTIBLE 2x4 HORIZONTAL AND VERTICAL BLOCKING AS REQUIRED TO SUPPORT AT ALL MILLWORK INSTALLATION LOCATIONS.
- ALL NEW OR MODIFIED FIRE WALLS AND SMOKE WALLS SHALL BE LABELED ABOVE CEILING AT 28" O.C. WITH LETTERING NOT LESS THAN 0.5 INCH HEIGHT FIRE AND SMOKE BARRIER. PROTECT ALL OPENINGS. ALL NEW AND EXISTING PENETRATIONS INTO RATED WALLS SHALL BE SEALED TO MAINTAIN RATING. FIELD VERIFY EXISTING CONDITIONS.

## PAINT/WALLCOVERING (CONT'D)

- PROVIDE PAINT SYSTEMS FOR VARIOUS SUBSTRATES AS SCHEDULED ON FINISH PLANS. WORK SHALL BE 3-COATS QUALITY, USING COMPATIBLE PRIMERS ON SUBSTRATES, AS RECOMMENDED BY FINISH COAT MANUFACTURERS. WORK SHALL MATCH EXISTING WHERE APPLICABLE
- FERROUS METAL
  - 1ST COAT: METAL PRIMER - RUST INHIBITIVE
  - 2ND COAT: SEMI-GLOSS ALKYD ENAMEL
  - 3RD COAT: ALKYD ENAMEL
- GYPSUM WALLBOARD: FINE TEXTURE
  - 1ST COAT: PVA SEALER (ROLLER APPLIED)
  - 2ND/3RD COAT: 100% ACRYLIC ENAMEL
- WOOD (OPAQUE)
  - 1ST COAT: ENAMEL UNDERCOAT
  - 2ND/3RD COAT: SEMI-GLOSS ALKYD ENAMEL
- ALUMINUM (DOOR FRAMES):
  - 1ST COAT: CHROMATE METAL PRIMER
  - 2ND/3RD COAT: SEMI-GLOSS ALKYD ENAMEL

## CARPET FINISH NOTES

- FOR CARPET PREPARATION, CLEAN FLOORS OF DUST, DIRT, SOLVENTS, OIL, GREASE, PAINT, PLASTER, AND SUBSTANCES DETERIORAL TO PROPER PERFORMANCE OF ADHESIVE AND CARPET AS RECOMMENDED BY MANUFACTURER. ALLOW FLOORS TO THOROUGHLY DRY.
- USE AN APPROVED GROUTLESS FILLER TO PATCH CRACKS, SMALL HOLES AND FOR LEVELING. ENSURE THAT FLOORS ARE LEVEL WITH MAXIMUM SURFACE VARIATION OF 1/4" IN 10 FEET, NONCUMULATIVE.
- COMPLY WITH MANUFACTURER'S PRINTED INSTRUCTIONS IN THE INSTALLATION OF THE CARPET.
- NEUTRAL TRIM CARPET EDGES FOR TIGHT FIT. ALONG WALLS, CUT AND FIT EVENLY AROUND PROJECTIONS AND INTO TRIM STRIPS AND REVEALS. FIT CLOSELY AND EVENLY TO DOORWAYS TERMINATING CARPET AT FRAMES. FINISHED INSTALLATION SHALL BE SMOOTH AND FREE OF Ripples AND PUCKERS.
- INSTALL RUBBER TRANSITIONS STRIP TO MATCH BASE WHERE CARPET MEETS ALL OTHER FLOORING MATERIAL.

## RESILIENT BASE FINISH NOTES

- AREAS TO RECEIVE RESILIENT TILE SHALL HAVE BLDG STANDARD COVE BASE UNLESS OTHERWISE NOTED.
- FIT JOINTS TIGHT AND VERTICAL. INSTALL BASE IN LONGEST PRACTICAL LENGTH, USING ROLL STOCK.
- SCRIBE TO VERTICAL OBSTRUCTIONS.
- INSTALL ON CONTINUOUS SOLID BACKING. ADHERE TIGHTLY TO SUBSTRATE AND FLOOR USING MANUFACTURER'S RECOMMENDED ADHESIVE.

## GENERAL FINISH NOTES

- REVIEW CONSTRUCTION NOTES BEFORE WORK.
- REVIEW FINISH SCHEDULE/LEAVE PLAN BEFORE COMMENCING WORK. NOTIFY ARCHITECT IMMEDIATELY OF ANY CONFLICTS BETWEEN ACTUAL CONDITIONS AND FINISH LAYOUT.
- CONTRACTOR SHALL PREPARE SURFACES FOR FINISH MANUFACTURER'S SPECIFICATIONS PRIOR TO APPLICATION OF FINISH.
- ENSURE THAT SURFACES TO RECEIVE FINISHES ARE CLEAN, TRUE AND FREE OF IRREGULARITIES - DO NOT PROCEED WITH WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED. STARTING WORK SHALL INDICATE APPLICATOR'S ACCEPTANCE OF SUBSTRATE.
- REPAIR & PREPARE EXISTING SURFACES AS REQUIRED FOR APPLICATION OF FINISHES.
- VERIFY FLOOR AREAS ARE ACCEPTABLE TO RECEIVE FLOOR FINISHES. CONCRETE FLOORS SHALL BE FREE FROM SCALING AND IRREGULARITIES AND SHALL EXHIBIT NEUTRALITY RELATIVE TO ACIDITY AND ALKALINITY.
- FLOOR FINISH TRANSITION TO OCCUR AT CENTERLINE OF DOOR OR CASED OPENING UNLESS OTHERWISE NOTED. REFER TO DOOR SCHEDULE FOR SILL DETAILS.
- INSPECT AREAS WHERE CARPET TRANSITIONS AT VCT FLOORING. FLASH PATCH AS REQUIRED TO SET TOP OF CARPET 1/4" ABOVE ADJACENT FINISH.

## PAINT/WALLCOVERING FINISH NOTES

- APPLICATION. (TAPE ALL EDGES OF GYPSUM BOARD.) PREPARE SAMPLES UNDER SPECIFIED LIGHT, RESUBMIT AS REQD. FOR ACCEPTABLE SHEEN, COLOR & TEXTURE.
- APPLICATOR SHALL INSPECT ALL SURFACES SCHEDULED TO RECEIVE NEW FINISH. TAPE JOINTS AND INDENTATIONS SHALL NOT "TELESCOPE" OR READ THROUGH THE PAINT FINISH AND WALLCOVERING. DO NOT PROCEED WITH THE WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.
- REFER TO MANUFACTURER'S SPECIFICATIONS WHEN APPLYING SPECIALTY PAINT AND WALLCOVERINGS.
- APPLICATOR SHALL USE PRIMER COMPATIBLE WITH SUBSTRATE TO BE PAINTED AND WILL APPLY FINAL FINISH COAT AS RECOMMENDED BY THE MANUFACTURER TO MATCH ARCHITECT SPECIFIED FINISH. TINT PRIME COAT TOWARD FINAL COLOR. SEALER/PRIMER SHALL BE ROLL APPLIED TO GYPSUM BOARD. SPRAY APPLICATION IS NOT ACCEPTABLE.
- BEFORE PAINTING WORK IS TO BEGIN, THE FOLLOWING ENVIRONMENTAL CONDITIONS SHALL BE PROVIDED:
  - Maintain interior of building space with temperature of 60° F MIN. and 85° F MAX. AND A RELATIVE HUMIDITY OF LESS THAN 70% FOR THREE DAYS PRIOR TO START OF PAINTING WORK, DURING THE PAINTING PROCESS AND AFTER WORK COMPLETION.
  - LIGHTING IN ALL SPACES SHALL BE FULL FINAL ILLUMINATION LEVEL. CONTRACTOR SHALL PROVIDE TEMPORARY LIGHTING WHERE REQUIRED.
- FIELD VERIFY SIZE AND LOCATION OF EXISTING UNITS/DUCTWORK
- PROJECT IS A COMPREHENSIVE MAKE-READY TO INCLUDE RELOCATION OF EXISTING HVAC AND/OR RETURN AIR GRILLS AS NECESSARY. UPGRADE AND ZONE HVAC AS REQUIRED FOR NEW LAYOUT (REFER TO PLANS FOR INCLUDED AREAS).
- PAINT SHALL BE APPLIED BY SKILLED CRAFTSMEN AND SHALL BE FREE OF ALL RUNS, BRUSH MARKS, SAGS AND OTHER DEFECTS. ARCHITECT WILL REJECT SUCH DEFECTS.

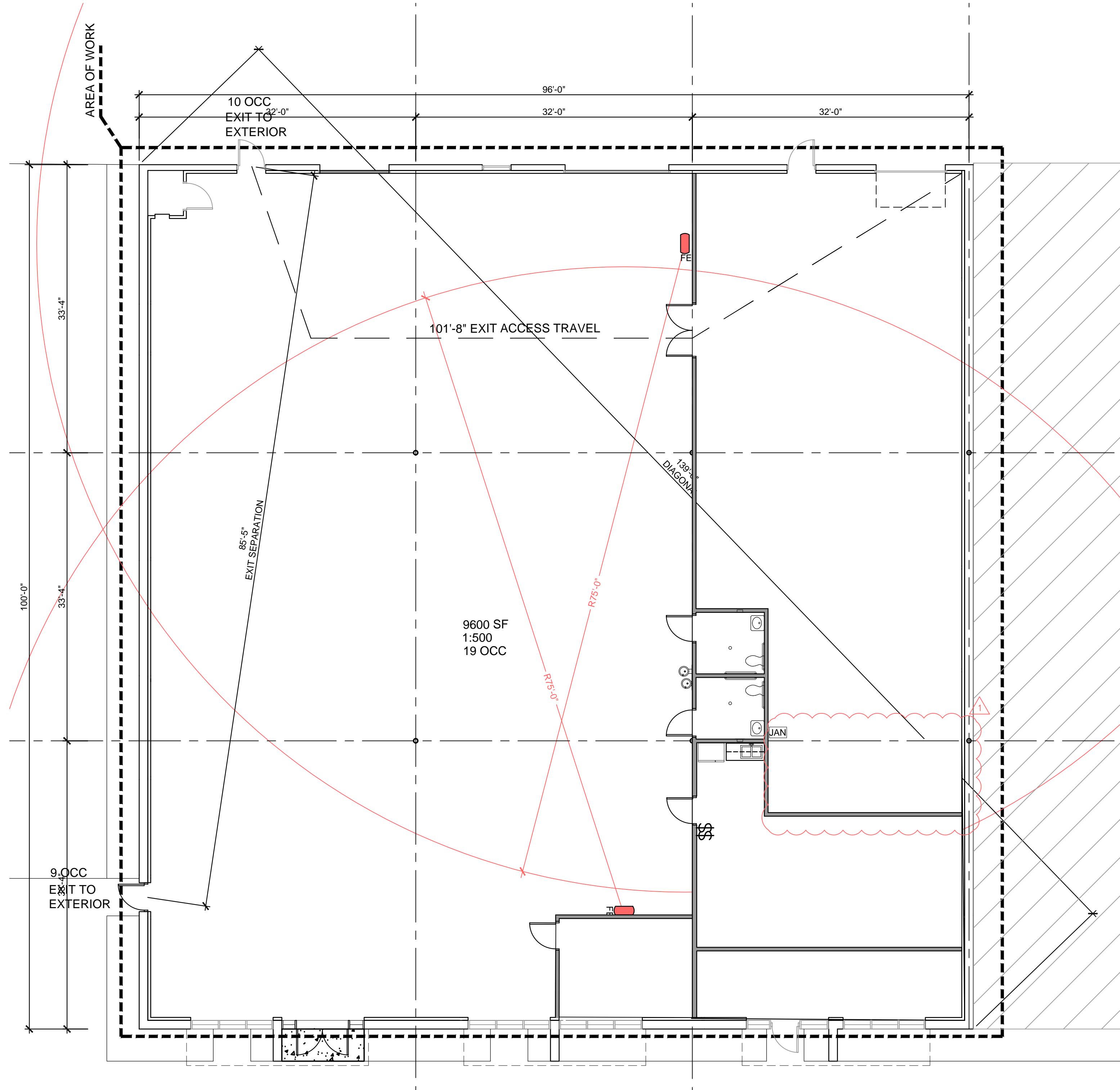
## MECHANICAL NOTES

- CONTRACTOR SHALL SUBMIT LAYOUT OF DISTRIBUTION TO ARCHITECT FOR REVIEW
- RELOCATE ALL THERMOSTATS AS REQUIRED (44" A.F.F.)
- PROVIDE ALL EQUIPMENT, MATERIAL, HARDWARE, INCIDENTALS AND LABOR FOR COMPLETE HVAC SYSTEM
- COMPLY WITH ALL LOCAL, COUNTY AND STATE GOVERNMENTAL CODES, ORDINANCES AND REGULATIONS AND UTILITY COMPANY STANDARDS. INCLUDE COMPLIANCE WITH LOCAL FIRE MARSHAL REQUIREMENTS AND N.F.P.A. STANDARDS.
- ALL DUCTWORK TO COMPLY WITH ASHRAE CONSTRUCTION STANDARDS FIELD INSPECT ALL EXISTING EQUIPMENT FOR PROPER MAINTENANCE AND OPERATION.
- REPAIR OR REPLACE DAMAGED EQUIPMENT TO ASSURE PROPER OPERATION.
- PAVE ACCESSIBLE ENTRY (+12SF CONC) UNDER EXISTING ROOF.
- NO TREES IN AREA OF WORK

## ELECTRICAL NOTES

- ALL OUTLET LOCATIONS TO REMAIN EXACTLY AS SHOWN. CONTACT ARCHITECT FOR APPROVAL OF LOCATION CHANGES.
- ALL TELEPHONE/DATA, AND ELECTRICAL OUTLETS TO BE MOUNTED 1-3" A.F.F. (AS MEASURED TO THE BOTTOM OF THE PLATE) UNLESS OTHERWISE NOTED.
- ALL SWITCHES AND OUTLETS ARE TO BE GANGED AND COVERED WITH A CONTINUOUS PLATE. ALL SWITCHES TO BE 8" A.F.F., U.N.O.
- ALL DIMENSIONS ARE TO CENTER POINT OF OUTLETS OR GROUPS OF OUTLETS. SPACING WITHIN A GROUP SHOULD BE 8" ON CENTER AND NO GREATER UNLESS APPROVED BY ARCHITECT.
- CONTRACTOR TO VERIFY LOCATIONS OF ALL STRUCTURAL SYSTEMS WHERE CORING IS INDICATED ON THE PLANS. IF CONFLICT OCCURS, CONTACT THE ARCHITECT FOR DIRECTION PRIOR TO COMMENCEMENT OF WORK.
- SCOPE OF ELECTRICAL WORK IS TO BE BASED UPON THE OUTLET LOCATION PLAN TO DETERMINE THE TYPE, QUANTITY, AND LOCATIONS OF OUTLETS. REFER TO ELECTRICAL ENGINEERING PLANS FOR CIRCUITING INFORMATION AND COORDINATION WITH OTHER TRADES AND EQUIPMENT, IF APPLICABLE. IN CASE OF CONFLICT IN LOCATIONS, ARCHITECTURAL PLANS GOVERNS.
- COMPLETE SYSTEM IN ACCORDANCE WITH CITY OF AUSTIN CODE, LOCAL ORDINANCES, AND NATIONAL ELECTRIC CODE.
- CONNECT NEW FIXTURES AS SCHEDULED TO EXISTING CONTROLS AND CIRCUITS CURRENTLY USED FOR THE FIXTURES BEING REPLACED.
- CONNECT NEW FIXTURES TO EXISTING EMERGENCY LIGHTING CIRCUITS TO ACHIEVE CODE REQUIRED LIGHT LEVELS IN CORRIDORS.
- ALL CONDUCTORS SHALL BE COPPER.

## issue for permit

PROJECT SCOPE:

9600 SF WAREHOUSE  
DISTRIBUTION CENTER

S-1 MODERATE HAZARD STORAGE  
A/V COMMUNICATION GEAR WITH  
PLASTIC TRIM  
NOT PUBLIC: DISTRIBUTION CENTER

CHANGE OF USE OFFICE TO  
WAREHOUSE  
BUILDING INFO:  
EXISTING 1 STORY 28,800 SF  
WAREHOUSE  
NO SPRINKLERED  
NO BUILDING FIRE ALARM  
FIRE EXTINGUISHERS PER  
CODE

9,600SF  
1:500 WAREHOUSE  
=19 OCC  
(ACTUAL APPROX.10)

CODE SCOPE NOTES:  
BUILDING: 2021 IBC  
ELECTRICAL: 2021 NEC  
ENERGY: 2015 IECC  
MECHANICAL: 2021 UMC  
PLUMBING: 2021 UPC

## LEGEND

● X EXIT SIGN

FE FIRE EXTINGUISHER TYPE 3A OR  
BETTER



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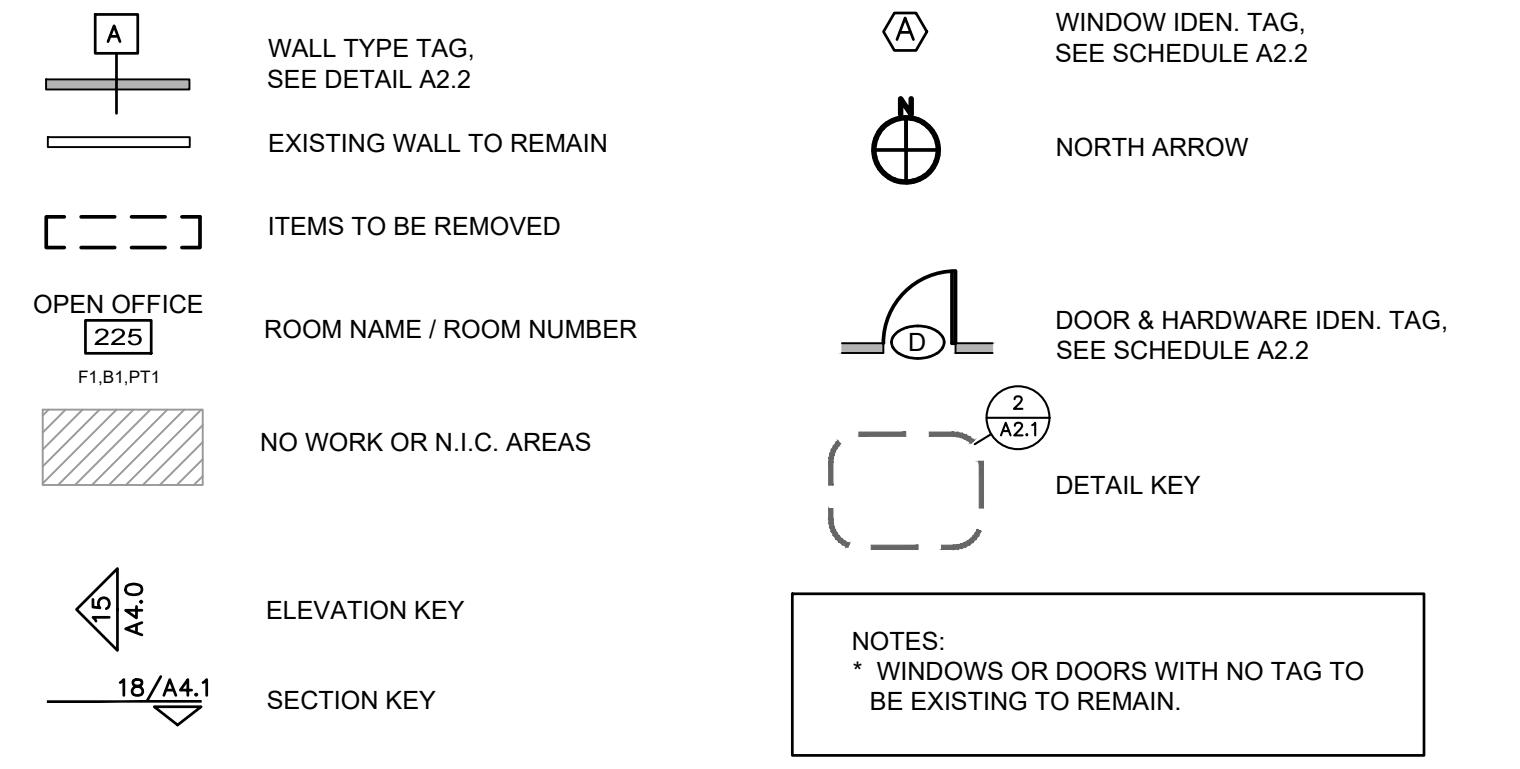
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NO. 36

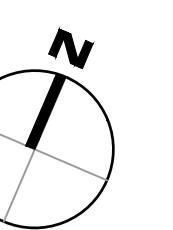
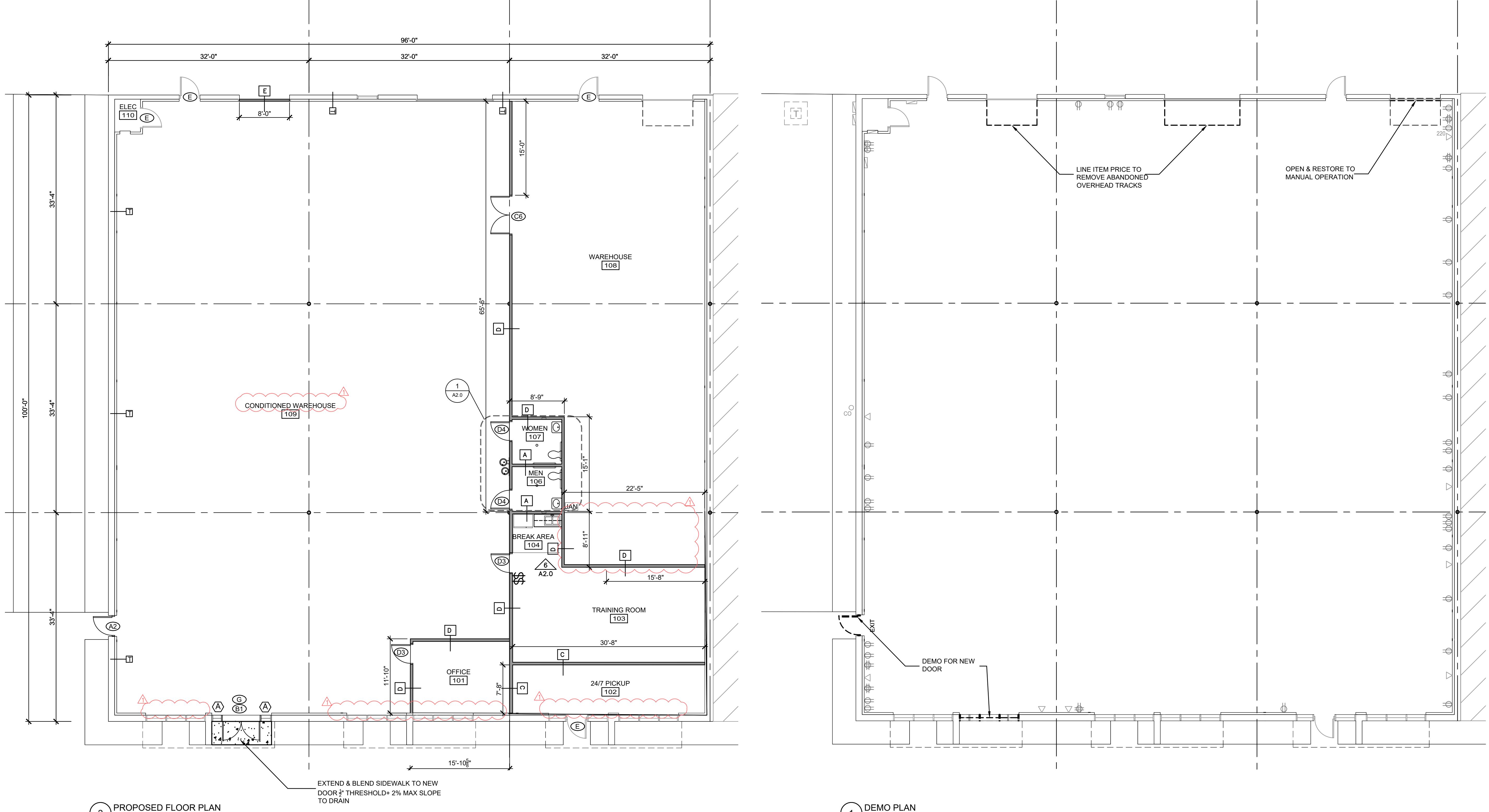
# FLOOR PLAN & DEMO PLAN

**SHEET**

## GENERAL SYMBOL / LEGEND



NOTES:  
\* WINDOWS OR DOORS WITH NO TAG TO BE EXISTING TO REMAIN.



# A1.0

## ELECTRICAL FIXTURES

- ⊖ EXISTING/NEW DUPLEX OUTLET
- ⊖ EXISTING/NEW GFCI DUPLEX OUTLET
- <sub>w</sub> NEW WATER SUPPLY LINE
- D⊖<sub>WP</sub> NEW WEATHER PROTECTED DUPLEX OUTLET
- ⊖(S) EXISTING OVERHEAD DOOR SENSOR
- ▷ RING AND STRING FOR TELECOM BY OTHERS

## LIGHTING FIXTURE LEGEND

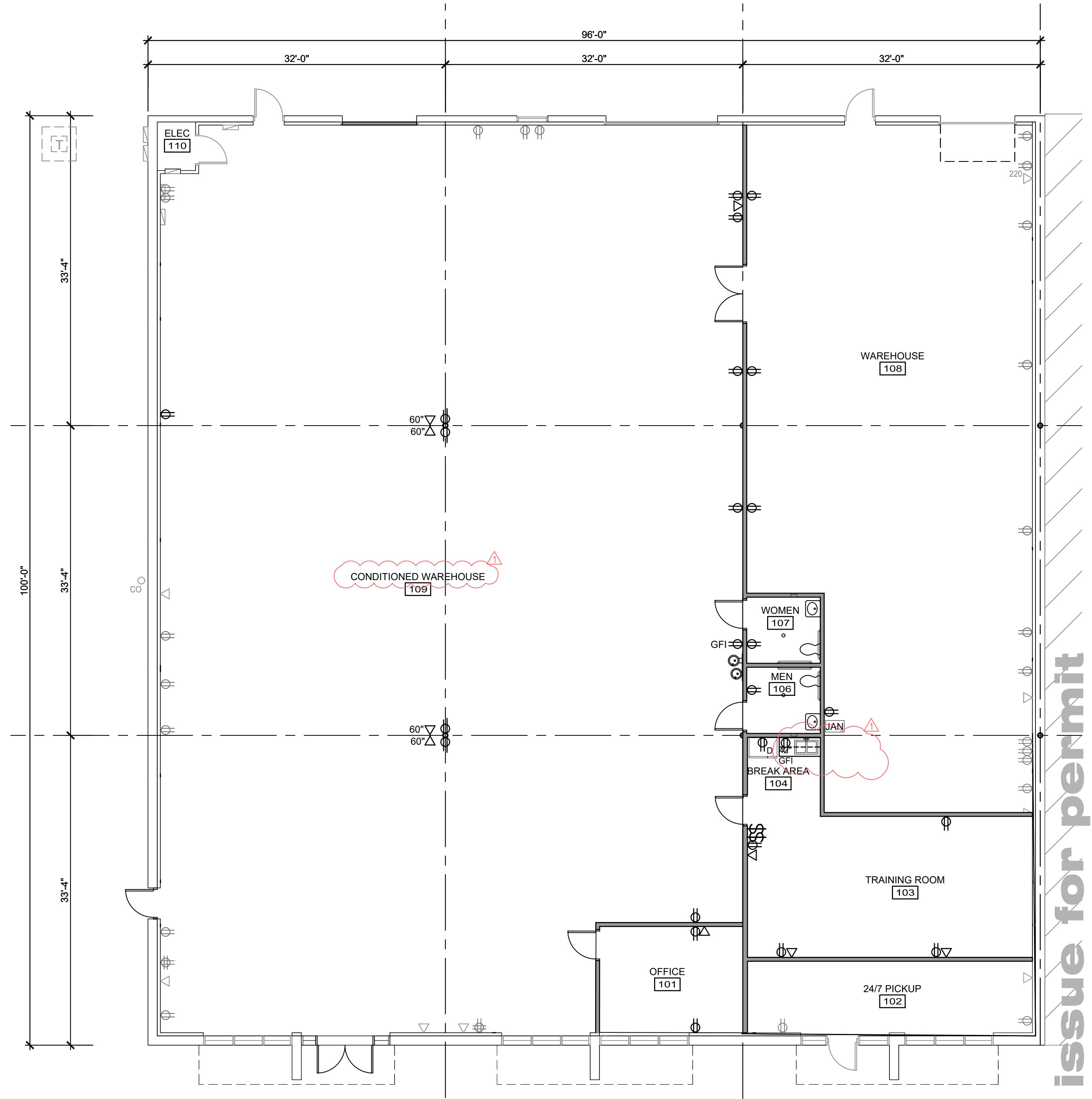
| LIGHTING FIXTURE LEGEND |       |          |  |              |           |       |   |
|-------------------------|-------|----------|--|--------------|-----------|-------|---|
| SYMBOL                  | LABEL | QUANTITY | FIXTURE  | MANUFACTURER | TYPE      | WATTS | NOTES   |
| ◎                       | A1    | 20       | COMPACT PRO Highbay, 12000 LUMENS, STANDARD EFFICIENCY GLARE CONTROL LENS, WIDE DISTRIBUTION, 40K, 80CRI | LITHONIA     | 40K       | 78.95 | @12'-0" A.F.F. truss/roof mounted<br>PROVIDE EMERGENCY PACK where indicated |
| ◎                       | A2    | 8        | COMPACT PRO Highbay, 9000 LUMENS, STANDARD EFFICIENCY GLARE CONTROL LENS, WIDE DISTRIBUTION, 40K, 80CRI  | LITHONIA     | 40K       | 60.92 | @12'-0" A.F.F.<br>PROVIDE EMERGENCY PACK where indicated                    |
| □○                      | B     | 12       | EPANL 2X2, 4800 NOMINAL LUMENS, 80 CRI, 3500K CCT  | LITHONIA     | 3500K     | 35.69 | @9'-0" A.F.F.   |
| □△                      | C     | 5        | EPANL 2X4, 4800 NOMINAL LUMENS, 80 CRI, 3500K CCT  | LITHONIA     | LED 3500K | 45.17 | @9'-0" A.F.F. on chains where no clng                                       |
| EXIT<br>△△              |       |          | EXISTING EXIT EMERGENCY SIGN AND LIGHT   | LITHONIA     | LED 3500K | 29.85 |   |
| EM                      |       |          | BATTERY BACKUP   |              |           |       |   |
| ⊗ X                     |       |          | EMERGENCY EXIT SIGN -WHITE   |              |           |       | REFER TO GENERAL NOTES  |

photometrics from Esther Isosaki <isosaki@spectrumltg.net> 512-367-9100



2 RCP PLAN

-



# 1 ELECTRICAL PLAN

1

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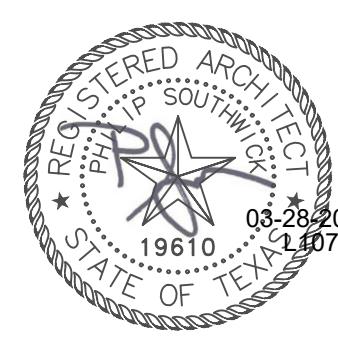
## ELECTRICAL & RCP PLAN

## A1.1

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OB NO. 36

## FINISH PLAN

SHEET

A12

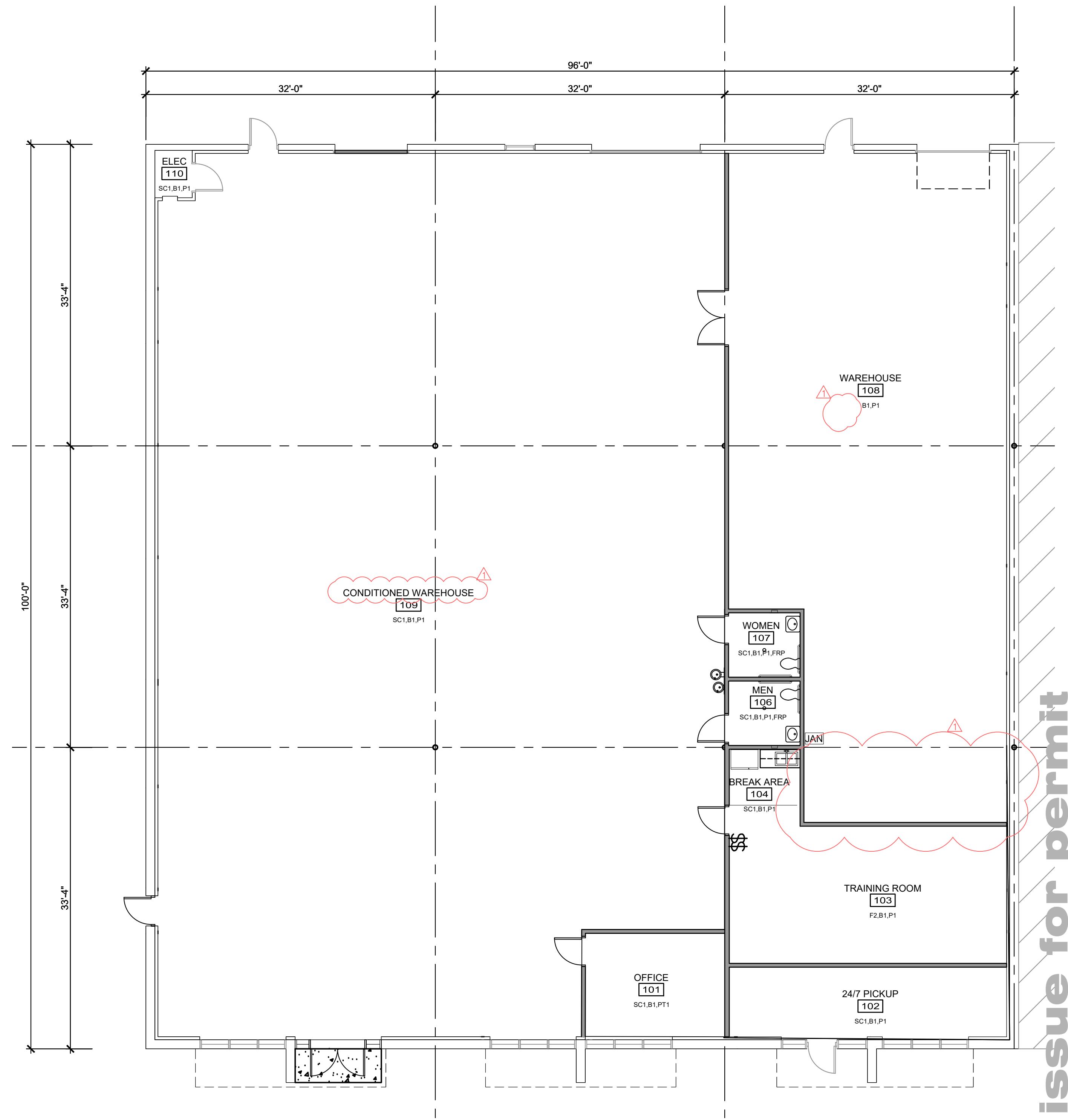
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## **ECD TENANT SCHEME**

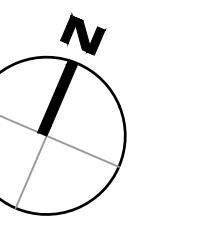
| MARK | MATERIAL                                 | MANUF./VENDOR    | STYLE/COLOR  | NOTES                      |
|------|--|------------------|--|----------------------------|
| SC1  | CONCRETE FLOOR SEALER                    | H&C              | WATERBASED WET LOOK 50.0-48054                         | INSTALLATION: 2 COATS      |
| F2   | CARPET                                   | EF CONTRACT      | COMMON THREAD CMT 51 BROADLOOM                         |                            |
| B1   | WALL BASE                                | ROPPE            | PINNACLE TS / 178 PEWTER / HEIGHT=4"                   | CLASS A. COVE PROFILE TYP. |
| ES-1 | ENGINEERED STONE                         | CAESARSTONE      | 4130 CLAMSHELL   | BREAK COUNTERTOP           |
| PL-1 | LAMINATE                                 | FORMICA          | STANDARD LAMINATE / NEUTRAL WHITE 918-58 / MATTE       | BREAK CABINETS             |
|      |  |                  |  |                            |
| P1   | PAINT                                    | SHERWIN WILLIAMS | LOW VOC INTERIOR LATEX / SW7015 REPOSE GRAY / EGGSHELL | WALLS                      |
| WT-1 | TILE                                     | CERAMIC TECHNICS | SASSUOLO URBAN BRICK / BIANCO / STICKS 3"X12"          | BREAK COUNTER BACKSPLASH   |
| FRP  | FIBERGLASS REINFORCED PLASTIC WALL PANEL | VARIOUS          | WHITE, SMOOTH  | WALLS (RE:FINISH PLAN)     |
| CT-1 | CEILING TILE                             | ARMSTRONG        | ULTIMA 1910 24X24                                      | WHERE INDICATED            |

## RESTROOM ACCESSORIES

| MARK | PRODUCT                                  | MANUF./VENDOR | STYLE/COLOR                               |
|------|--|---------------|---|
| M-1  | MIRROR                                   | BOBRICK       | MODEL: B-165, SIZE AS SHOWN ON ELEVATIONS |
| T-1  | TOILET PAPER DISPENSER                   | BOBRICK       | SURFACE MTD B-3588.                       |
| T-2  | PAPER TOWEL DISPENSER & WASTE RECEPTACLE | BOBRICK       | MODEL: B-3588                             |
| GB-1 | GRAB BARS, 36"                           | BOBRICK       | MODEL: B-6806.99, BLOCKING RE: TAS SHEET  |
| GB-2 | GRAB BARS, 42"                           | BOBRICK       | MODEL: B-6806.99, BLOCKING RE: TAS SHEET  |



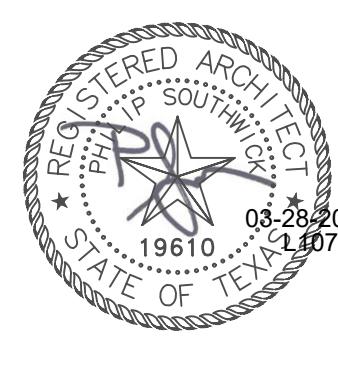
1 FINISH PLAN



A1.2



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JOB NO. 3663

DETAILS,  
SCHEDULES

SHEET

A2.1

## HARDWARE SCHEDULE

BUILDING STANDARD WOOD BROWN STAIN  
HACER HINGES, FALCON SC81 CLOSERS  
YALE 4600 AU LEVERS MICRO-SHIELD WITH IC CORES  
TIMELY ALUMATONE FRAMES 505 SERIES IN HALLWAYS. SIZES ARE  
VARY IN HEIGHT RE: DOOR SCHEDULE AND PLAN.  
HGS FRAMES FOR INTERIORS  
HARDWARE FINISH: 626 SATIN CHROME

## NOTES:

1. GC SHALL CONTACT OWNER'S SECURITY VENDOR PRIOR TO ORDERING, TYPE.
2. HARDWARE TO BE MOUNTED AT 38" A.F.F. UNDERCUT DOORS 38" x 1/2" A.F.F.
3. ALL DOORS TO HAVE TAS COMPLIANT HARDWARE. CLOSERS MAX 5 LBS OPENING FORCE.
4. REFER FLOOR PLAN FOR DOOR SWING.

## HARDWARE TYPE '1'

ARCHL PULL  
DEADBOLT  
CLOSER, COORDINATOR  
T&B FLUSH BOLTS  
THRESHOLD  
WEATHERSTRIP, Drip FLASH

## HARDWARE TYPE '2'

CLOSER  
BLANK PLATE OUTSIDE  
LATCH GUARD  
PANIC  
THRESHOLD  
WEATHERSTRIP, Drip FLASH

## HARDWARE TYPE '3'

ENTRY LOCKSET,

FLOOR STOP

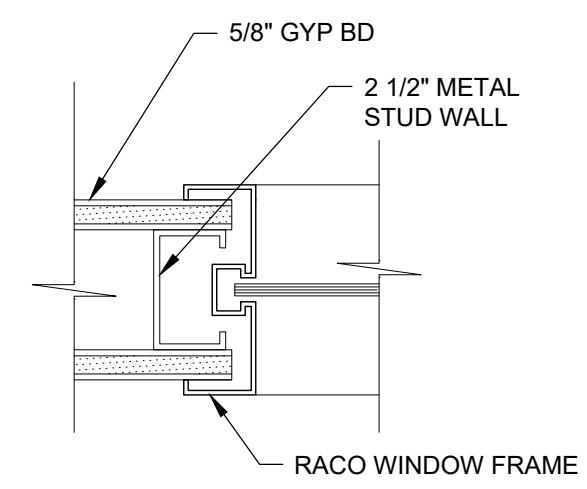
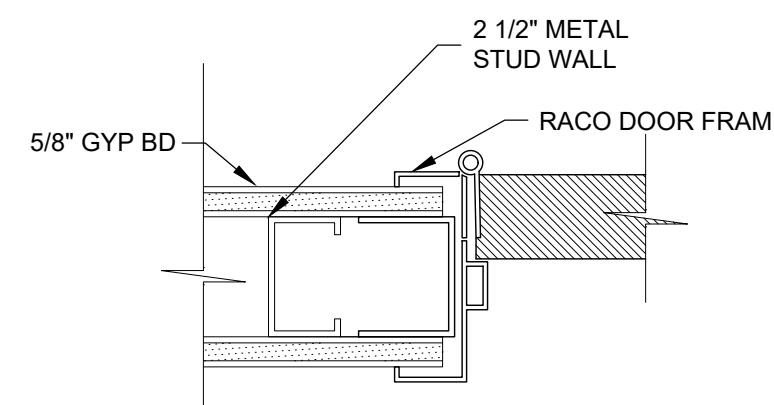
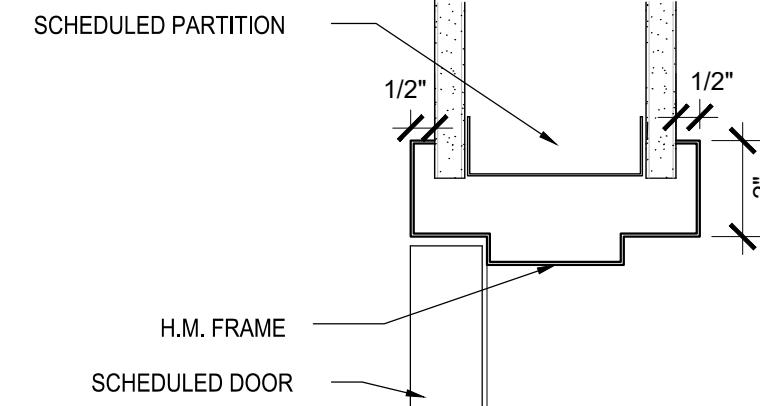
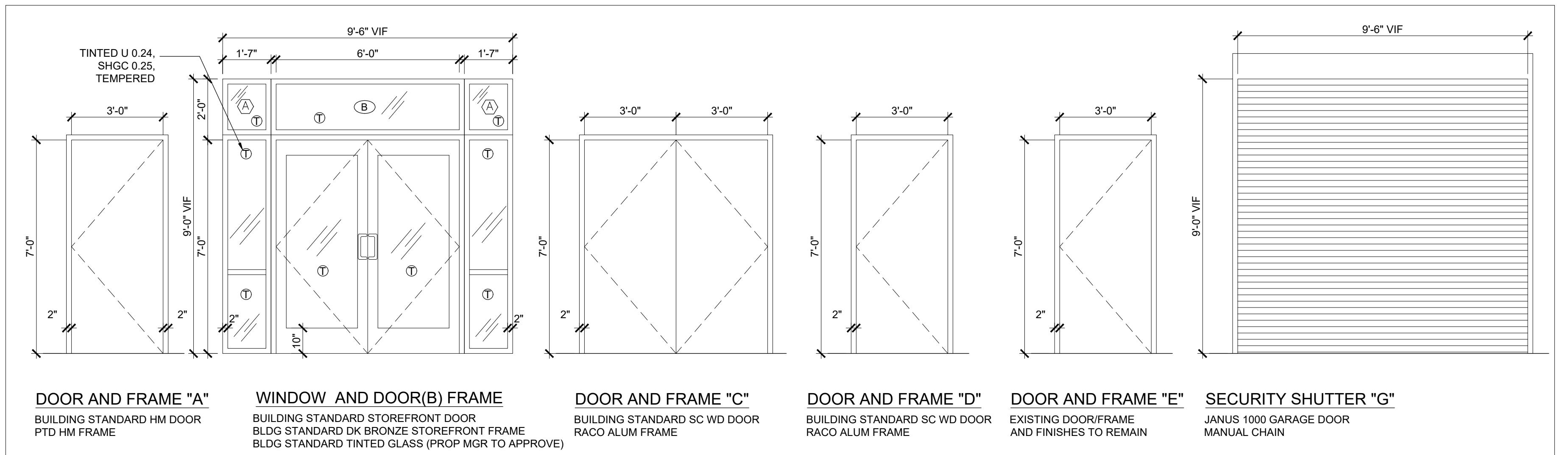
## HARDWARE TYPE '4'

PRIVACY LOCKSET,  
PUSH/PULL,  
KICKPLATE

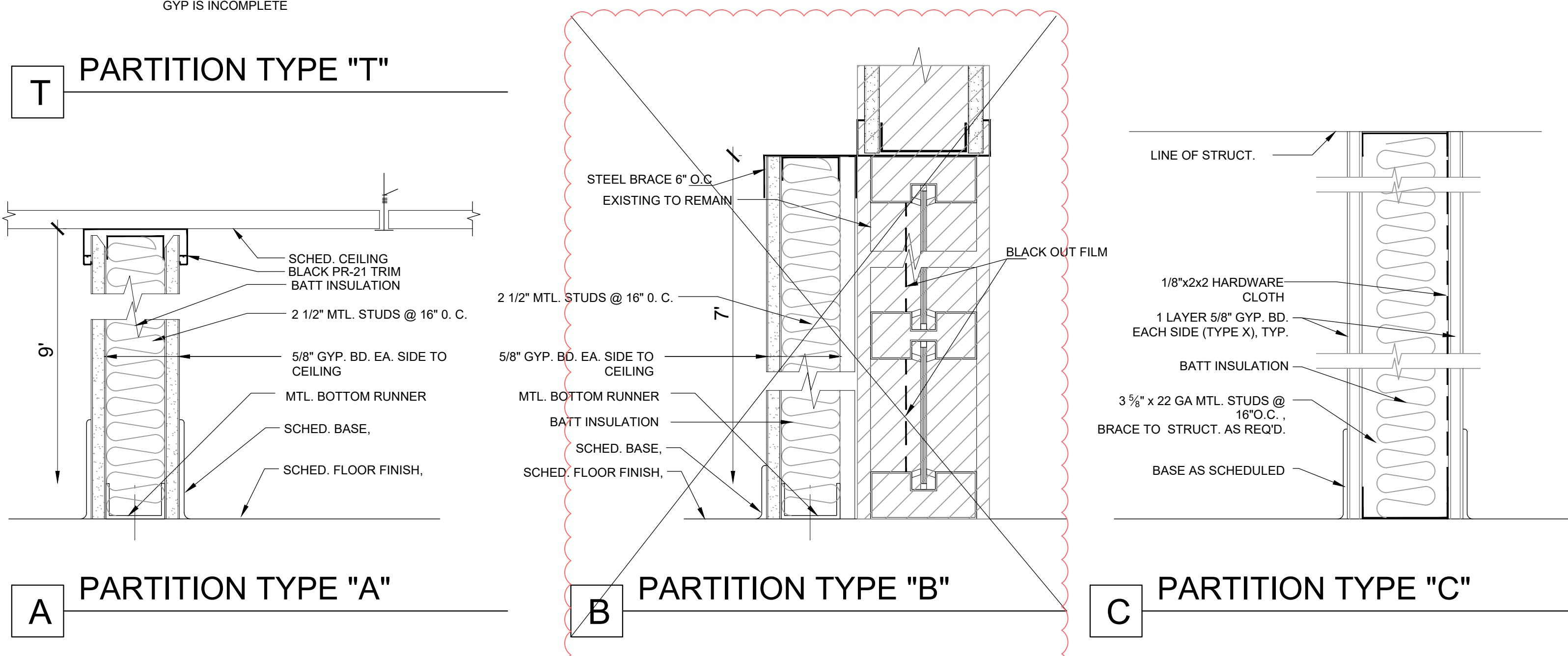
## HARDWARE TYPE '5'

STORAGE LOCKSET,  
T&B FLUSH BOLTS

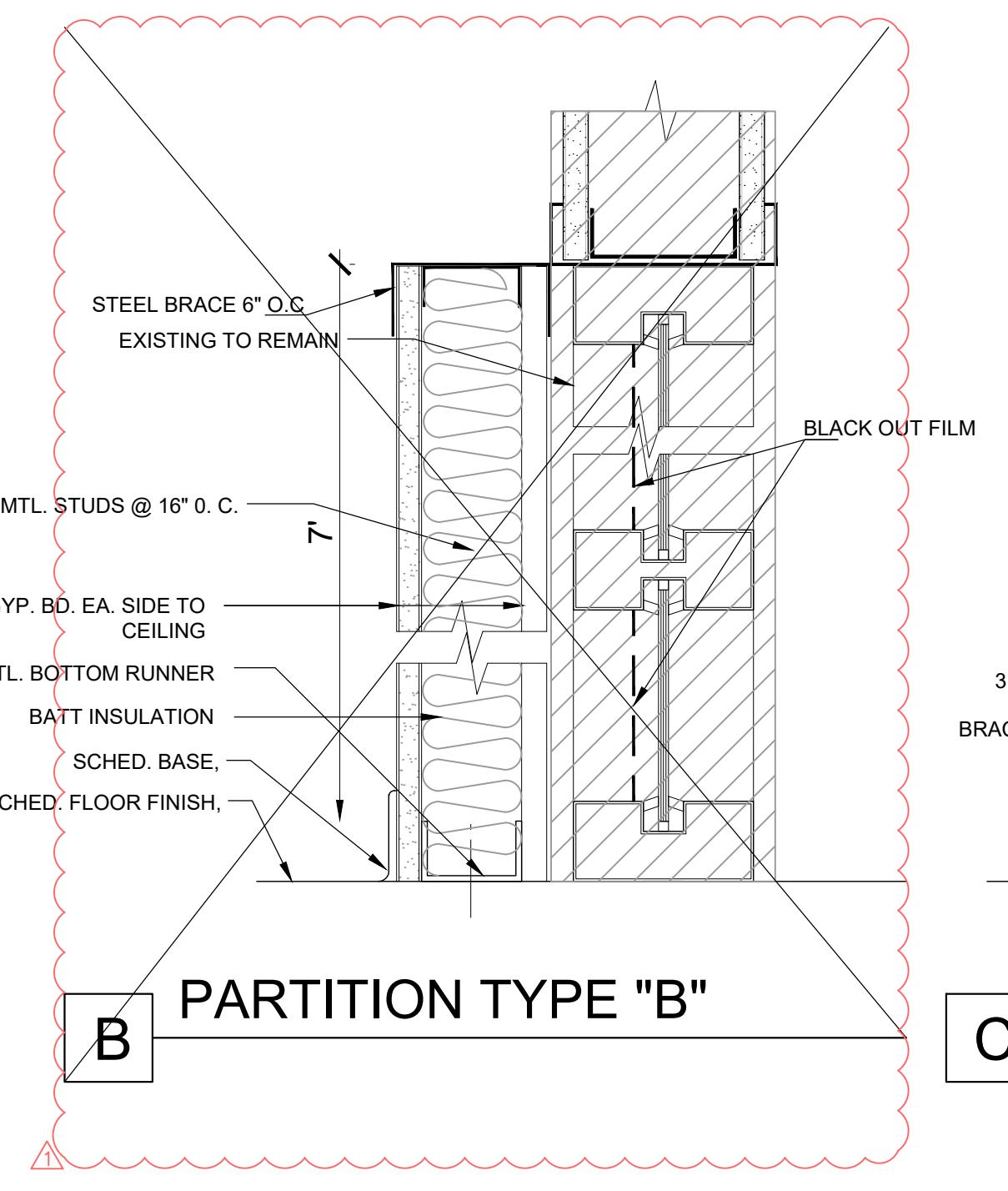
CLOSER

5 DOOR HEAD DETAIL  
3' x 10'4 DOOR DETAIL  
3' x 10'3 DOOR HEAD DETAIL  
3' x 10'2 DOOR & WINDOW SCHEDULE  
3'0" x 10'AT SHOWROOM ONLY. INSTALL THE  
TOP 24" x 1/2" OF GYP ONTO THE  
EXISTING PERIMETER STUDS WHERE  
GYP IS INCOMPLETE

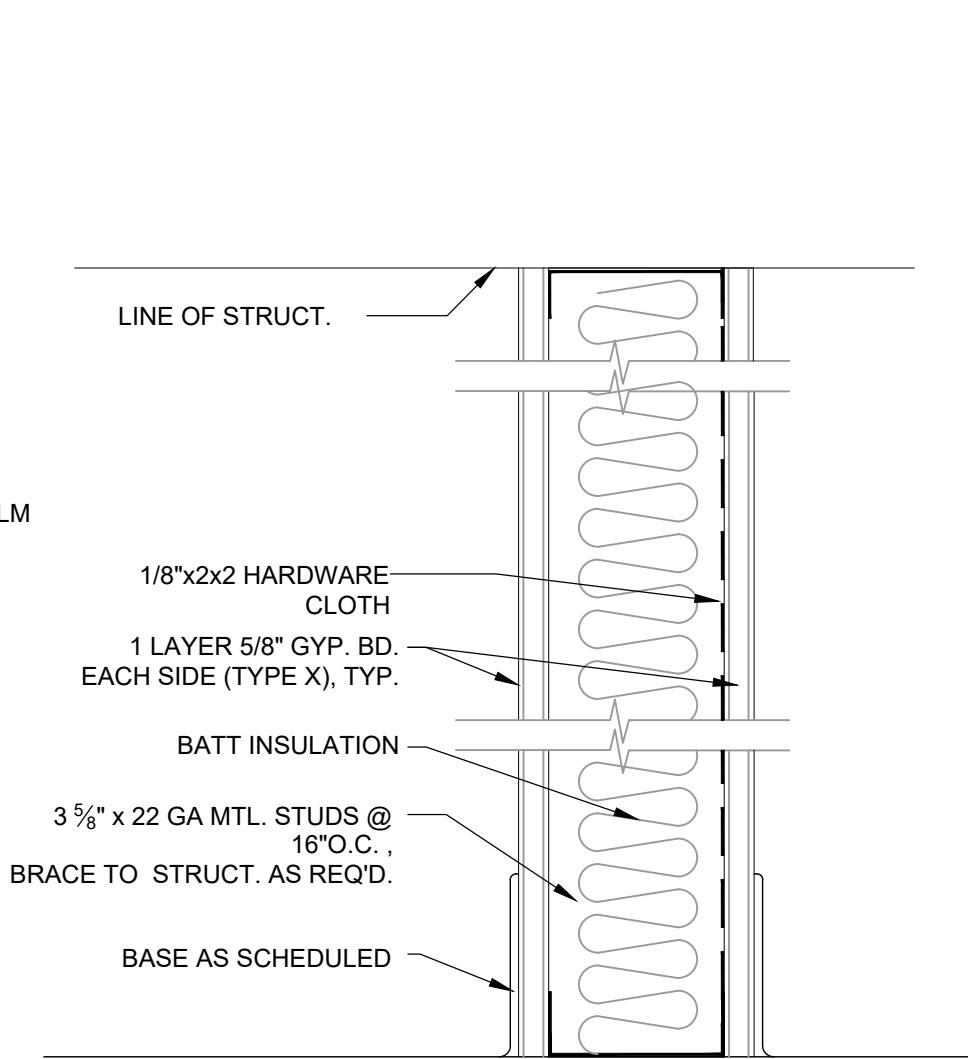
## PARTITION TYPE "T"



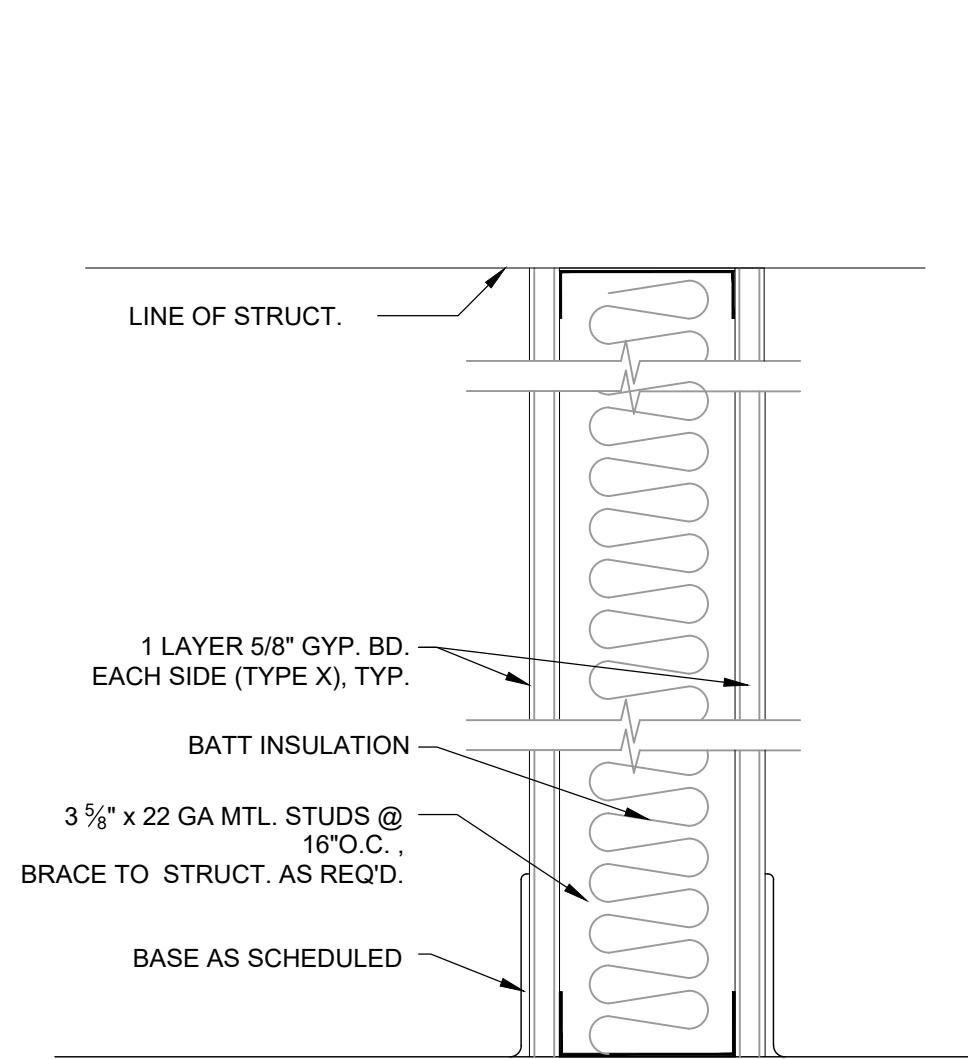
## PARTITION TYPE "A"

1 PARTITION TYPES  
3' x 10'

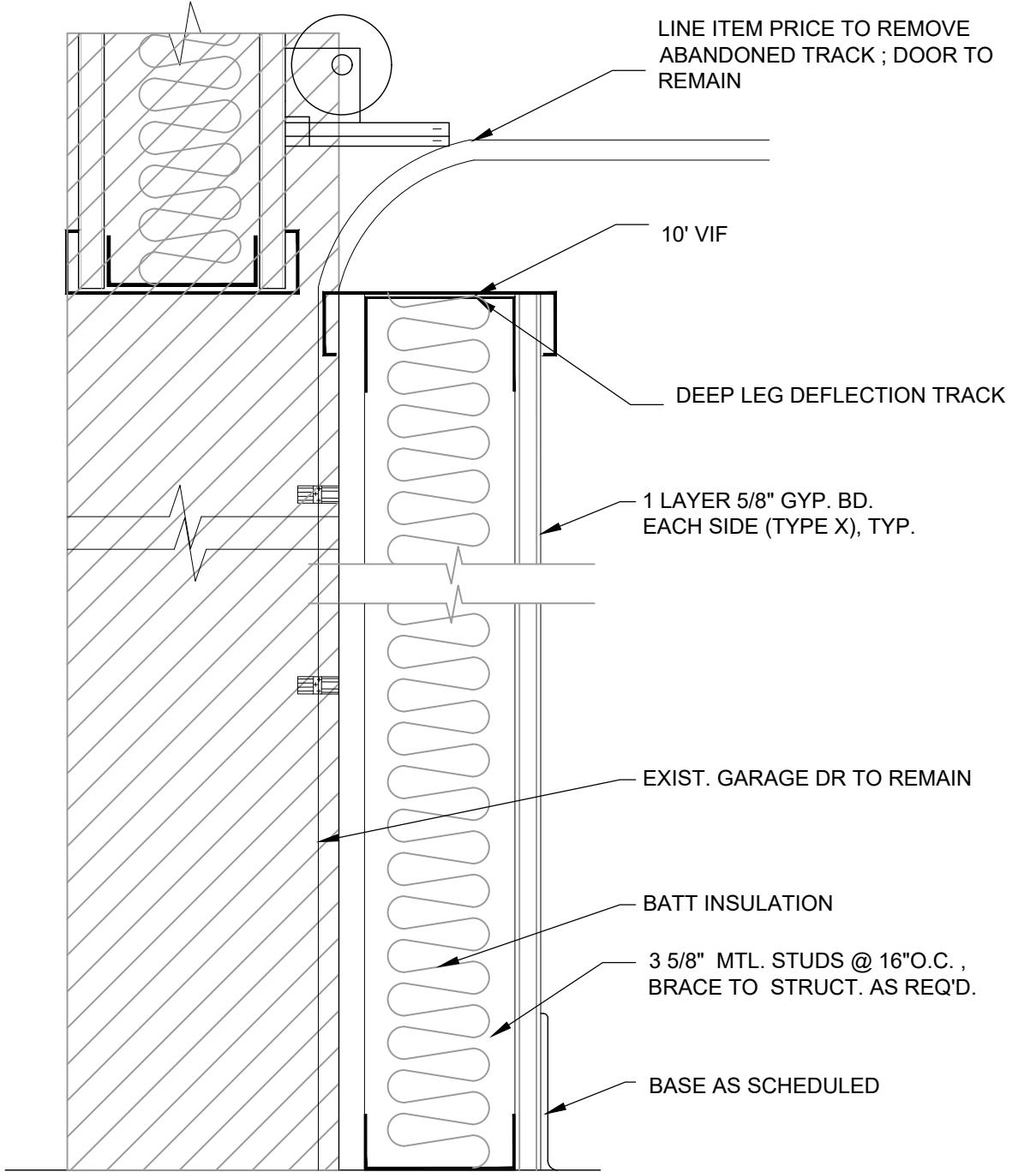
## PARTITION TYPE "B"



## PARTITION TYPE "C"



## PARTITION TYPE "D"



## PARTITION TYPE "E"

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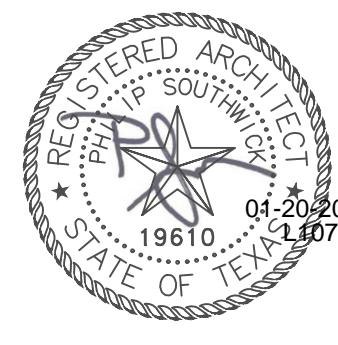
SHEET

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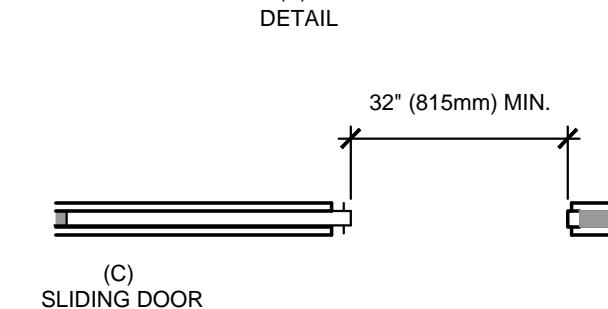
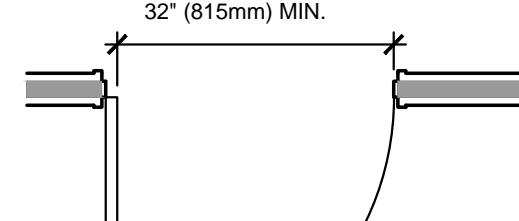
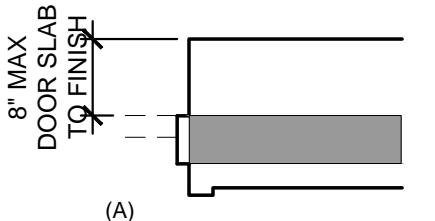
TAS

SHEET

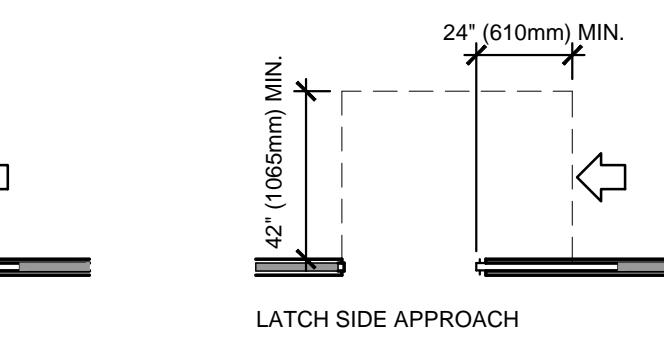
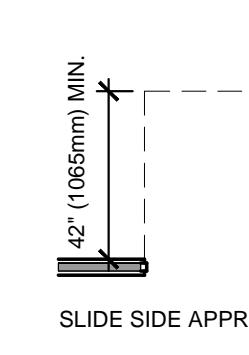
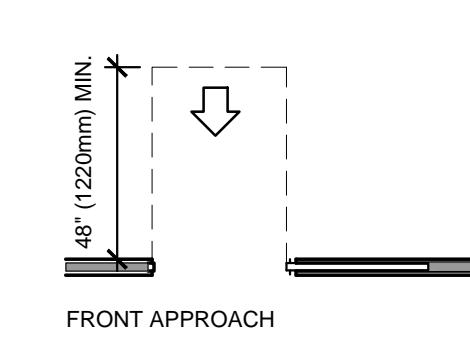
**A3.1**

DOORS AND ENTRANCES:  
1. ACCESSIBLE ENTRANCES TO AND EXITS FROM A BUILDING MUST BE PROVIDED

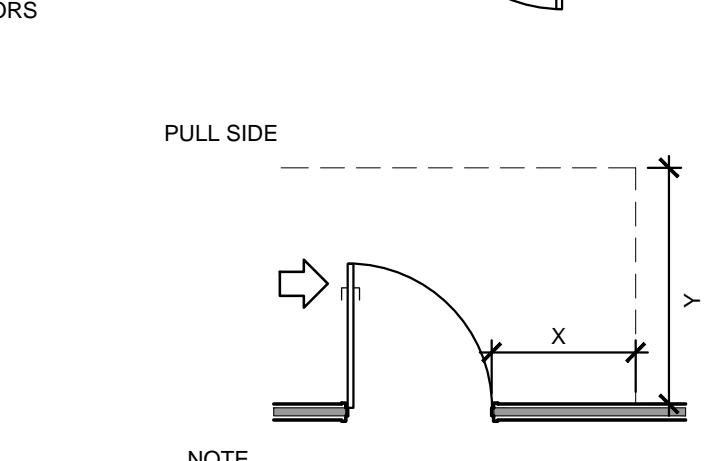
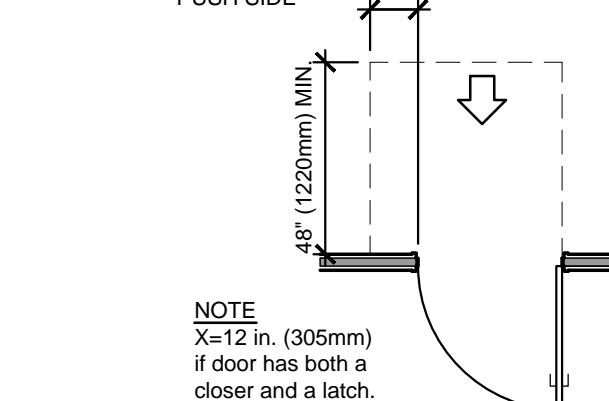
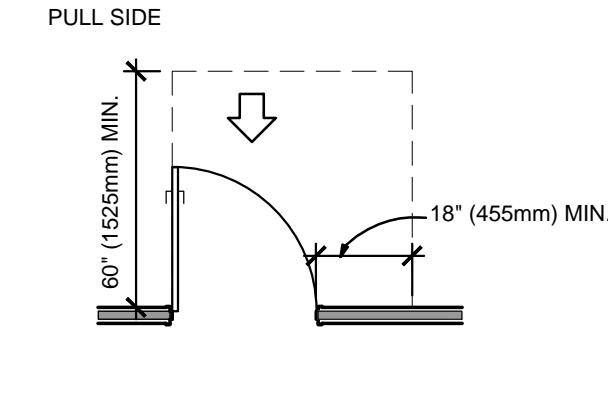
2. MANEUVERING CLEARANCES AT DOORS SHALL BE LEVEL (1:50 MAXIMUM SLOPE) AND CLEAR IF DOORS ARE NOT AUTOMATIC OR POWER ASSISTED  
3. DOORS MUST MEET ACCESSIBLE REQUIREMENTS FOR DOORS.  
4. PROVIDE ACCESSIBLE DOORS OR GATES ADJACENT TO REVOLVING DOORS AND TURNSTILES.  
5. DOUBLE-LEAF DOORS SHALL HAVE AT LEAST THE ACTIVE LEAF  
6. ALL DOORS IN ALCOVES SHALL COMPLY WITH THE CLEARANCES FOR FRONT APPROACHES.



#### CLEAR DOORWAY WIDTH AND DEPTH



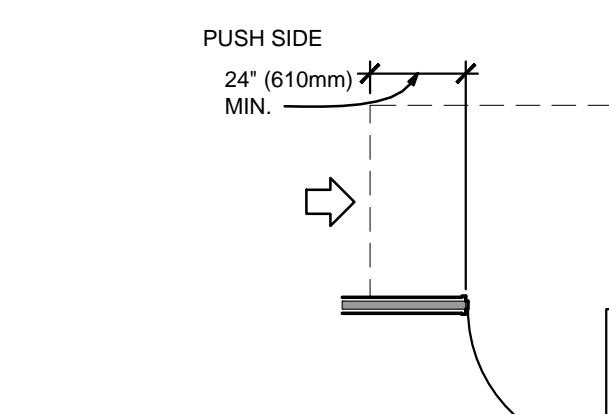
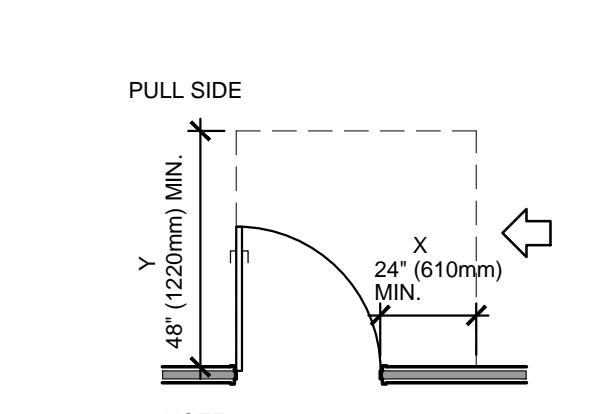
#### LATCH SIDE APPROACH - SLIDING DOORS AND FOLDING DOORS



NOTE: Y=48 in. (1220mm) minimum if door has both a closer and a latch.

NOTE: X=12 in. (305mm) if door has both a closer and a latch.

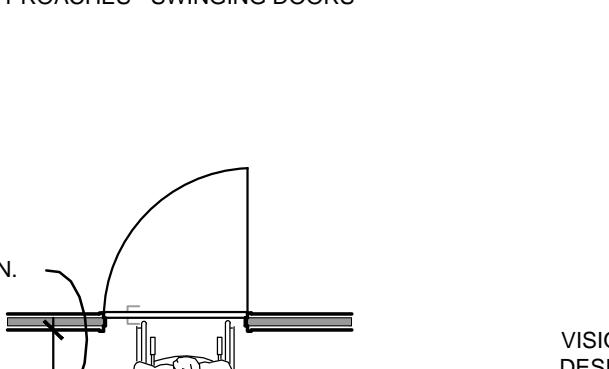
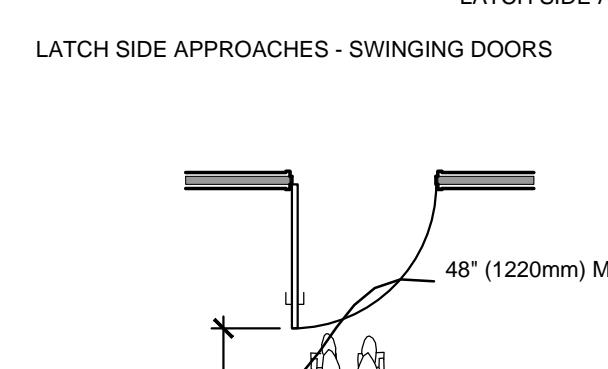
#### HINGE SIDE APPROACHES - SWINGING DOORS



NOTE: Y=48 in. (1220mm) minimum if door has closer.

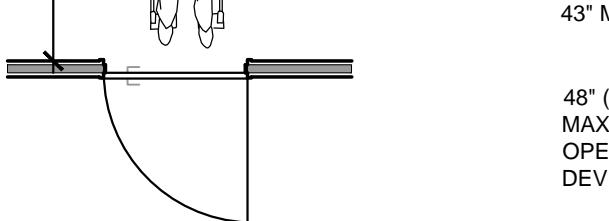
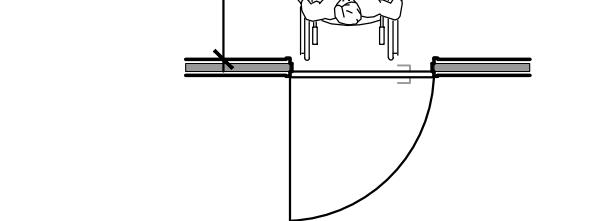
NOTE: Y=48 in. (1220mm) minimum if door has closer.

#### LATCH SIDE APPROACHES - SWINGING DOORS



NOTE: Y=54 in. (1370mm) minimum if door has closer.

NOTE: Y=48 in. (1220mm) minimum if door has closer.



NOTE: Y=48 in. (1220mm) minimum if door has closer.

#### 404 DOORS, DOORWAYS, AND GATES

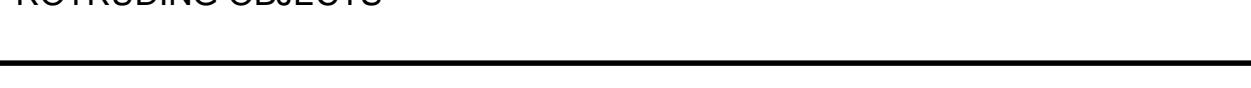
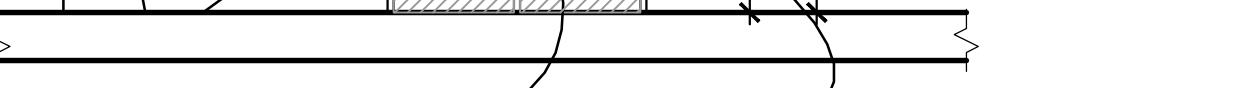
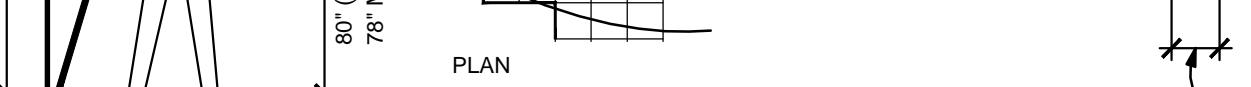
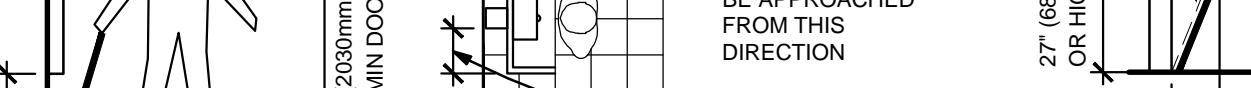
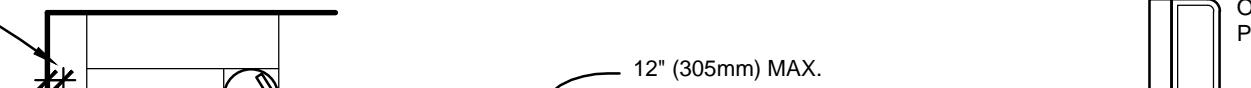
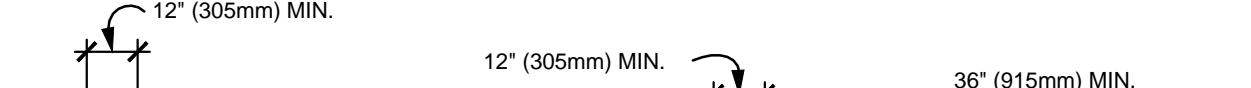
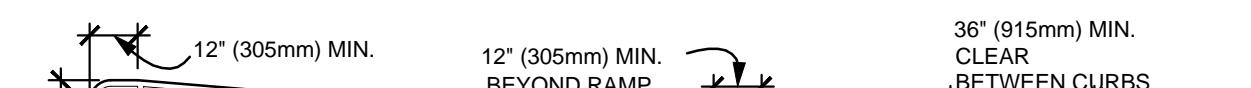
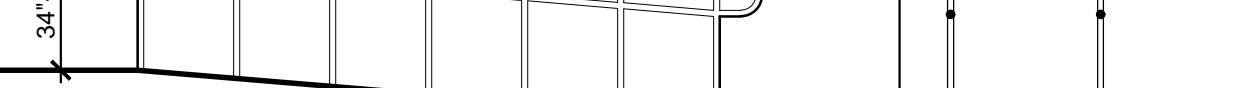
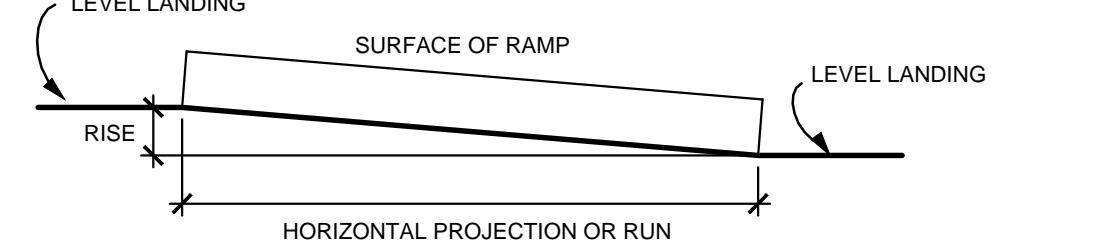
HARDWARE AND CONTROLS  
1. DOOR PASSAGE HARDWARE: SHAPE EASY TO GRASP WITH ONE HAND. DOES NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF FINGERS.  
2. INTERIOR DOOR OPENING FORCE: NO MORE THAN 5 LBF (22.2 N) UNLESS GREATER REQUIRED FOR FIRE DOORS.  
3. AUTOMATIC AND POWER-ASSISTED DOORS ARE ACCESSIBLE SEE AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR FURTHER REQUIREMENTS.

RAMPS:  
1. PROVIDE AT ACCESSIBLE ROUTE, SLOPES GREATER THAN 1:20 ARE CONSIDERED RAMPS.  
2. SLOPE MAXIMUM 1:12, PROVIDE LEAST SLOPE POSSIBLE, MAXIMUM RISE OF 30 IN. PER RUN.  
3. LANDINGS SHOULD BE LEVEL AT TOP AND BOTTOM OF EACH RAMP RUN AND AT LEAST AS WIDE AS THE RUN LEADING TO IT. A 60 X 60 IN. LANDING IS REQUIRED WHERE RAMP CHANGES DIRECTION. IF THERE IS A DOOR AT THE LANDING, PROVIDE LEVEL MANEUVERING CLEARANCES BOTH SIDES; SEE HANDRAIL EXAMPLES AND NOTES.  
4. HANDRAILS REQUIRED: WHERE RISE IS GREATER THAN 6 IN. OR RUN IS GREATER THAN 72 IN.; BOTH SIDES; SEE HANDRAIL EXAMPLES AND NOTES.  
5. EDGE PROTECTION REQUIRED AT RAMPS AND LANDINGS WITH DROP-OFFS; SEE EXAMPLES.  
6. DESIGN OUTDOOR RAMPS AND APPROACHES SO THAT WATER WILL NOT ACCUMULATE ON SURFACE; MAXIMUM CROSS SLOPE OF 1:50.

#### SAMPLE RAMP DIMENSIONS

| SLOPE           | MAXIMUM RISE |                             |
|-----------------|--------------|-----------------------------|
| 1:8 TO $<1:10$  | 3"           | EXIST. BLDGS AND SITES ONLY |
| 1:10 TO $<1:12$ | 6"           | EXIST. BLDGS AND SITES ONLY |
| 1:12 TO $<1:20$ | 30"          |                             |

NOTE: SLOPE  $<1:20$  IS NOT A RAMP SO NO HANDRAILS ARE REQUIRED



DATE: 01/20/2022

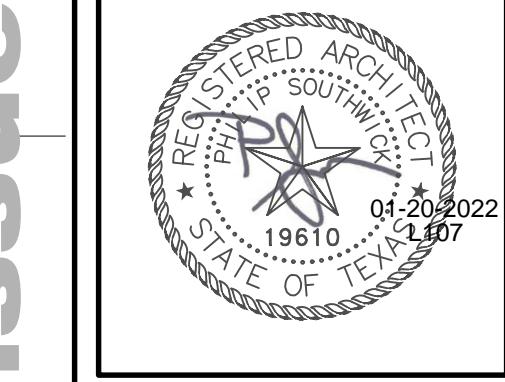
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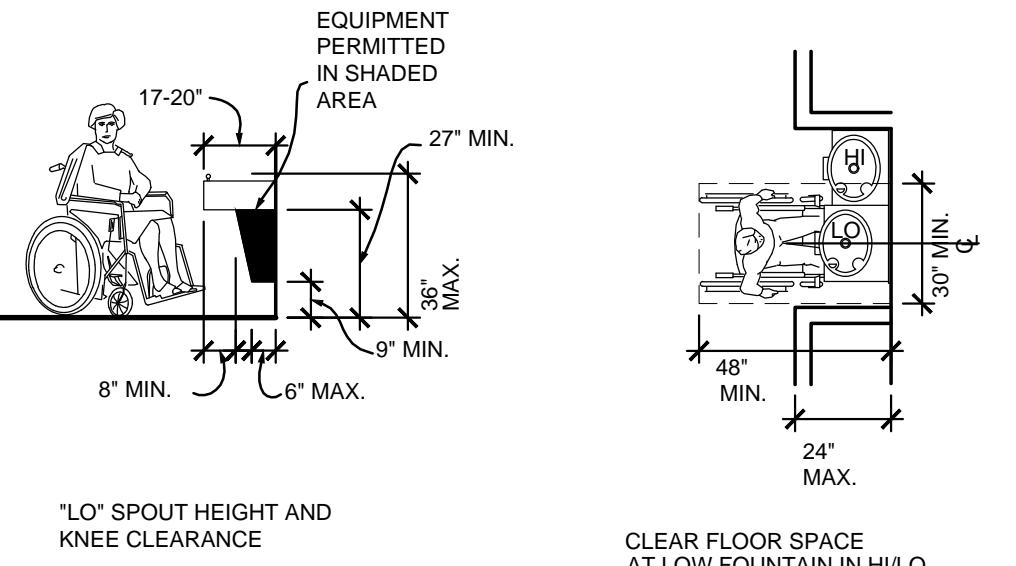
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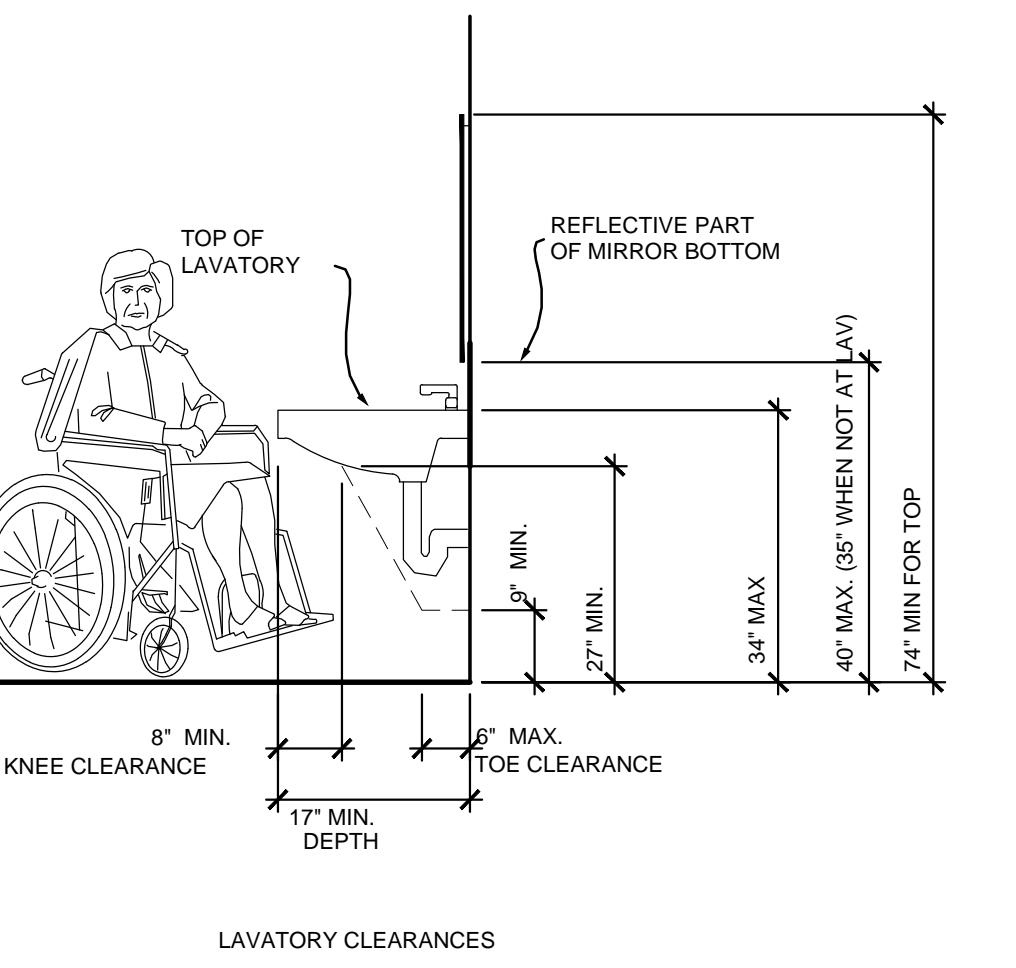
**A3.2**

**NOTE:**  
BOTH HIGH AND LOW FOUNTAINS ARE REQUIRED, NO FEWER THAN 50%.  
WHEELCHAIR ACCESSIBLE; OTHERS ARE TO BE LOCATED AT A STANDARD HEIGHT CONVENIENT TO THOSE WITH DIFFICULTY STOOPING. HIGH-LOW FOUNTAINS ARE REQUIRED WHEN ONLY ONE FOUNTAIN IS PROVIDED.

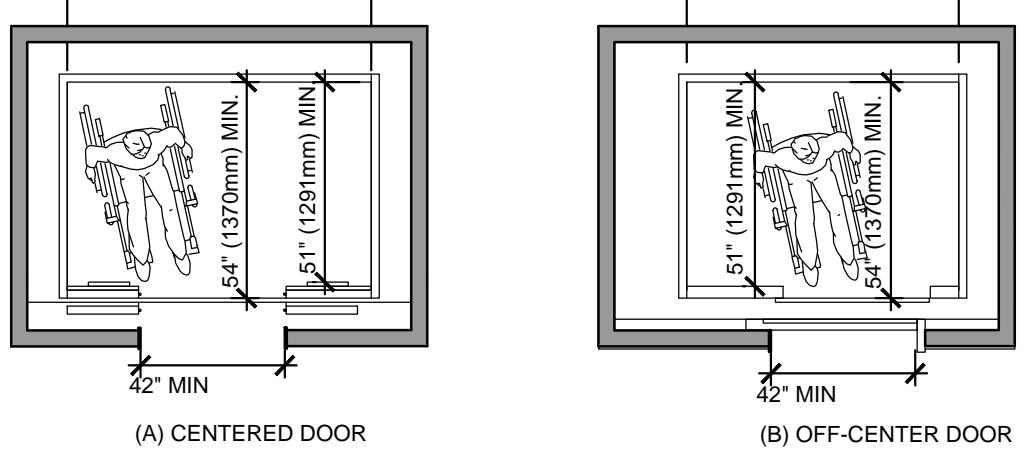
ADDITIONAL REQUIREMENTS FOR SPOUT LOCATION, ANGLE, FLOW, AND HI FOUNTAIN RE: 602



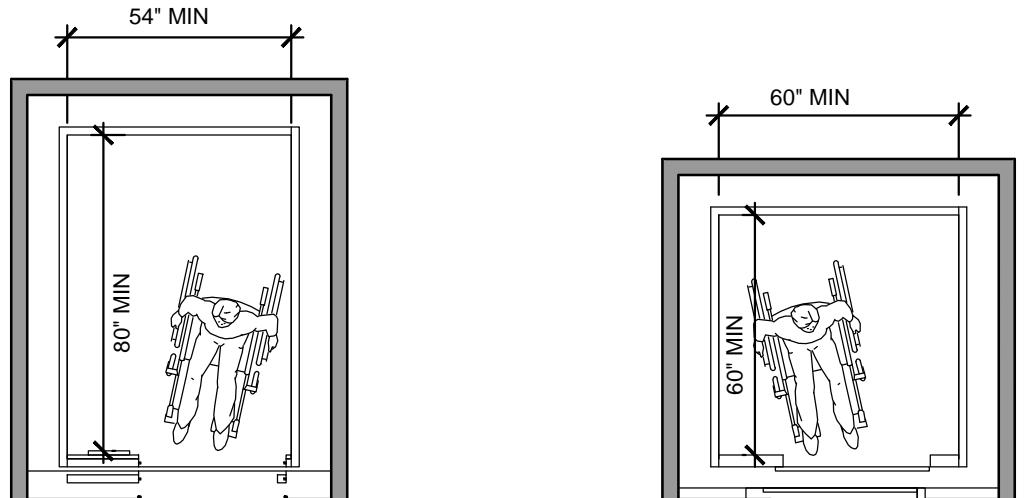
602 DRINKING FOUNTAINS



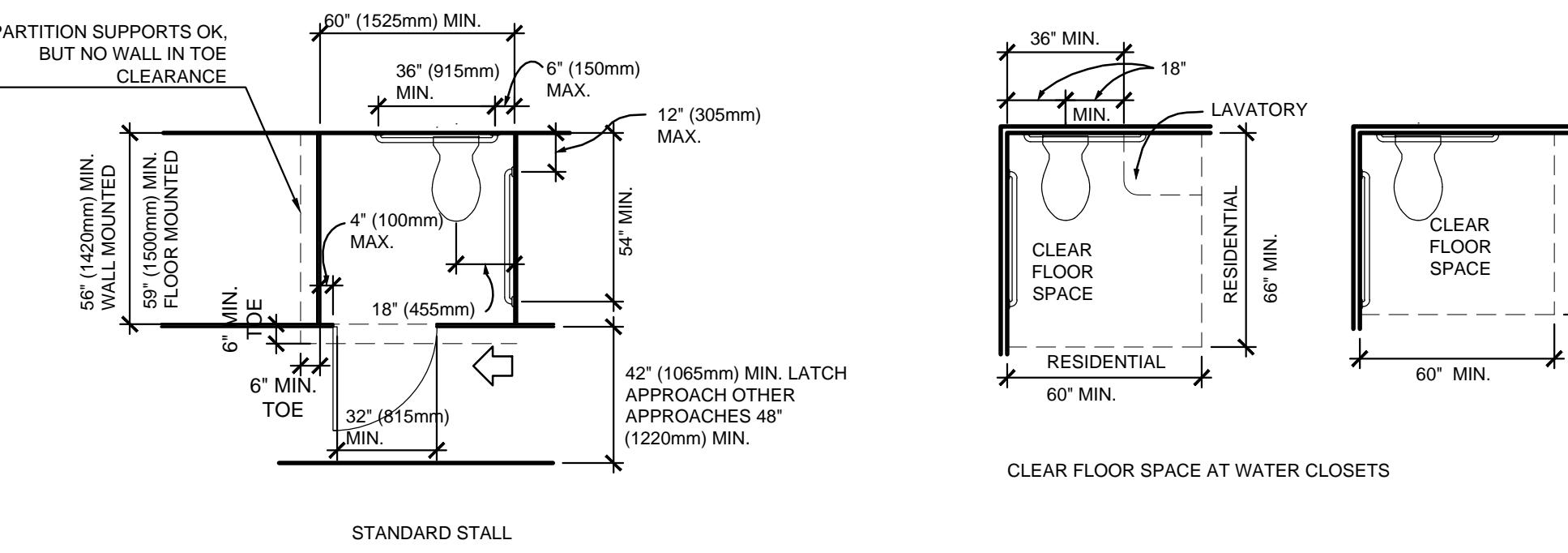
606 LAVATORIES AND SINKS



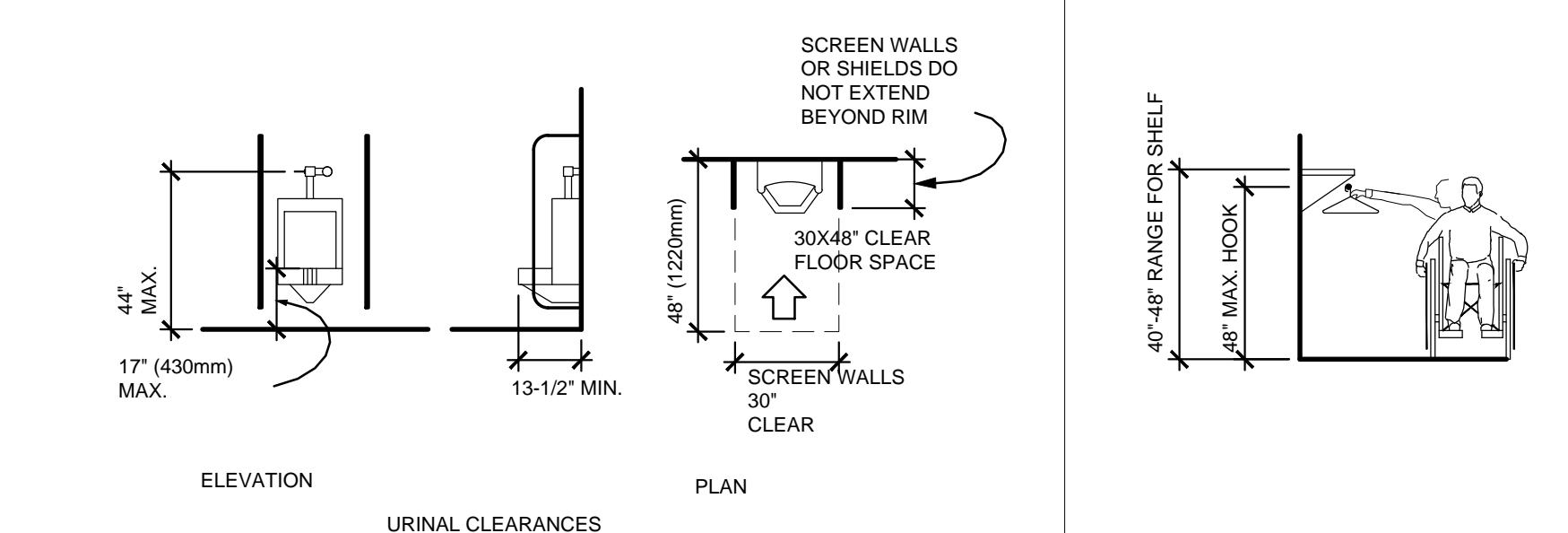
(A) CENTERED DOOR  
(B) OFF-CENTER DOOR



407 ELEVATORS

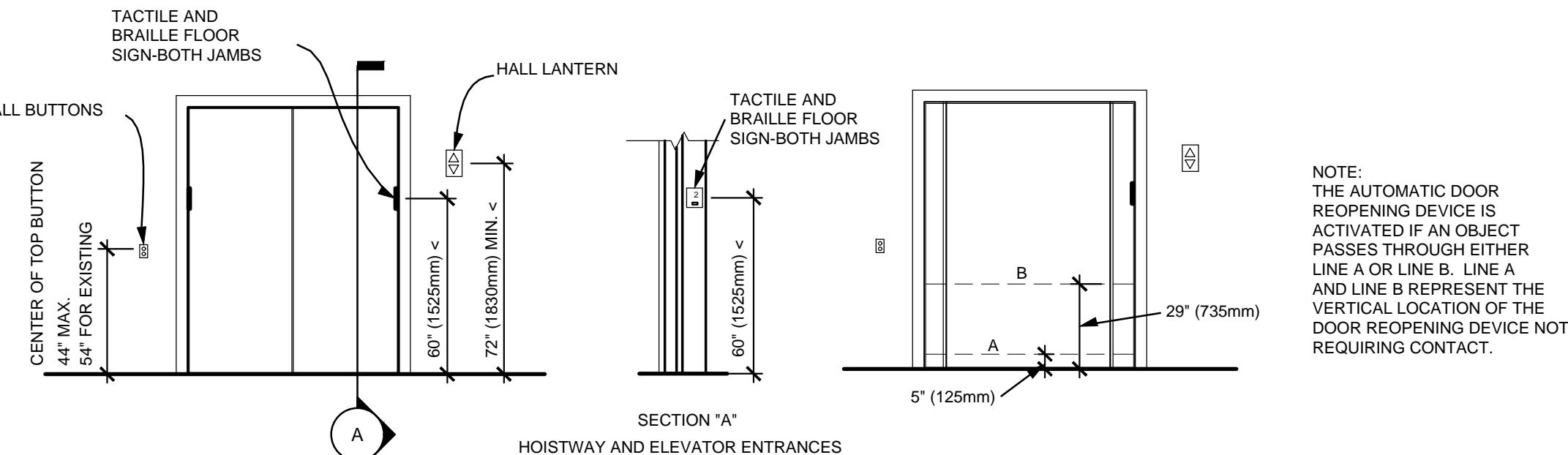


604 WATER CLOSETS AND TOILET COMPARTMENTS

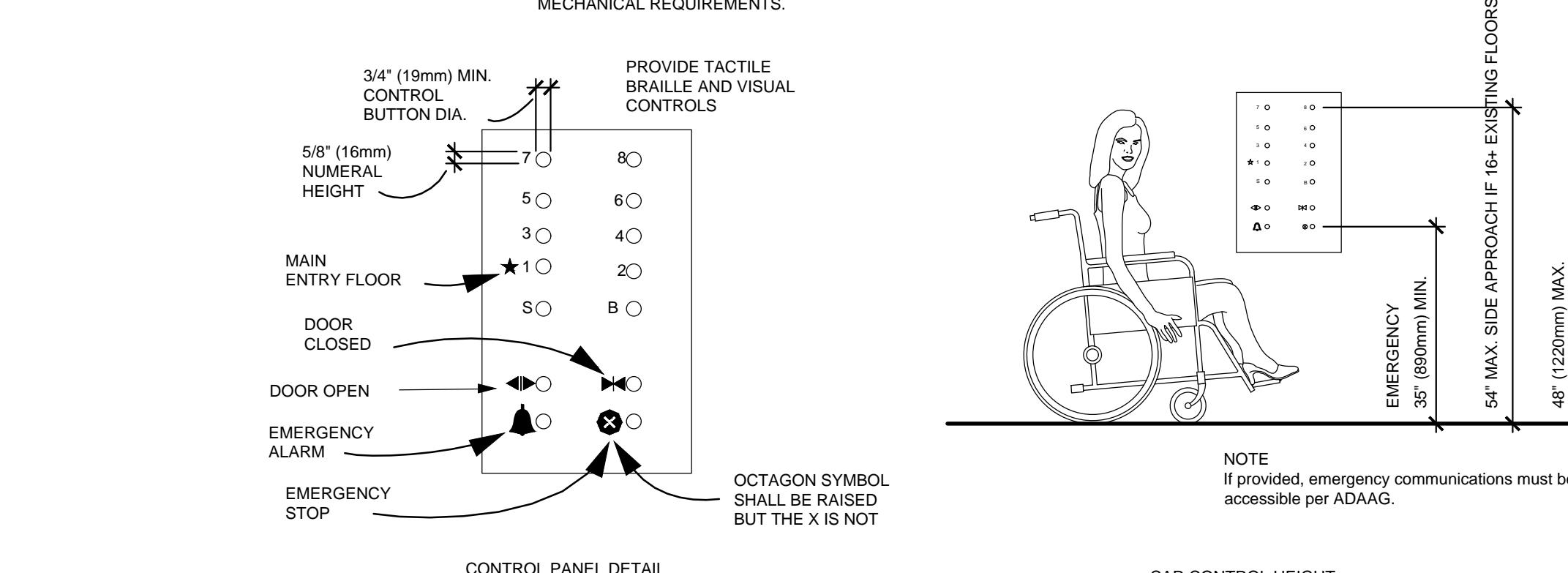


605 URINALS 213.3.3: 605 SHALL APPLY IF MORE THAN ONE URINAL

603 TOILET AND BATHING ROOMS



NOTES:  
1. FLOOR DESIGNATIONS: 2 IN. HIGH LETTERS, INCLUDING BRAILLE, 60 IN. ABOVE FLOOR ON BOTH SIDES OF ELEVATOR DOOR JAMBS.  
2. HALL LANTERNS: SOUND ONCE FOR UP DIRECTION, TWICE FOR DOWN; MOUNT MINIMUM 72 IN. HIGH; MINIMUM 2 1/2 IN. SMALLEST DIMENSION.  
3. VISUAL AND AUDIBLE CAR POSITION INDICATOR.  
4. SEE AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG) FOR MECHANICAL REQUIREMENTS.



CAR CONTROL HEIGHT

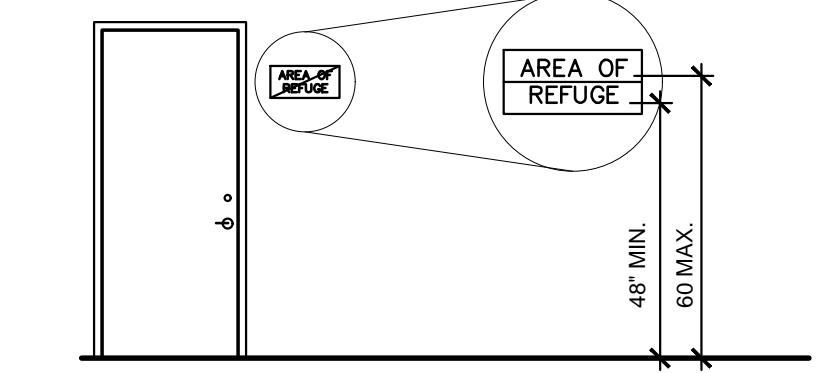


FIGURE 804.2.1. PASS THROUGH KITCHENS

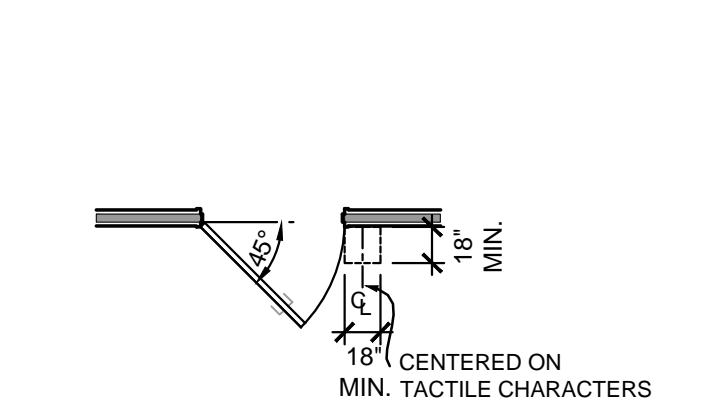


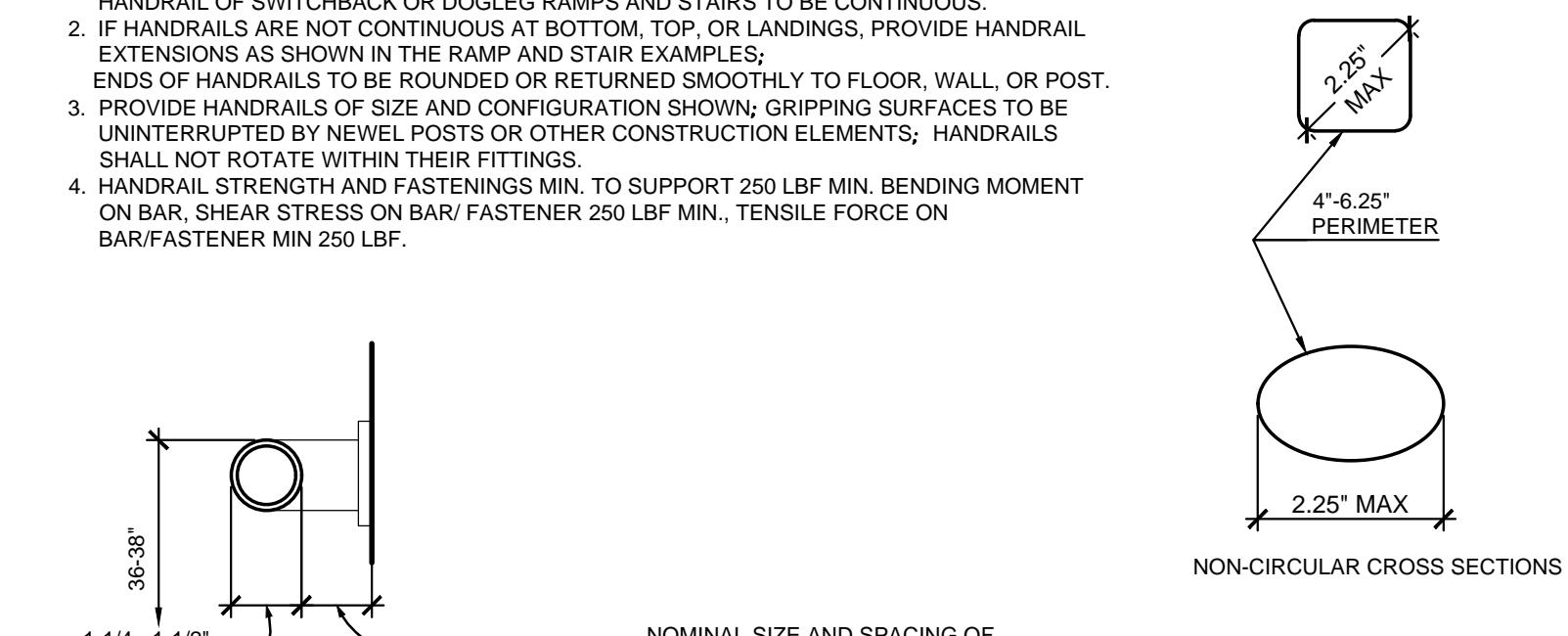
FIGURE 804.2.2. U-SHAPE KITCHENS

703 SIGN MOUNTING LOCATION

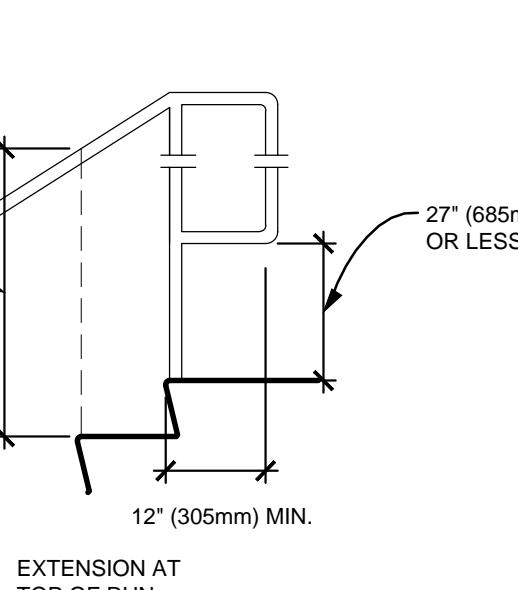
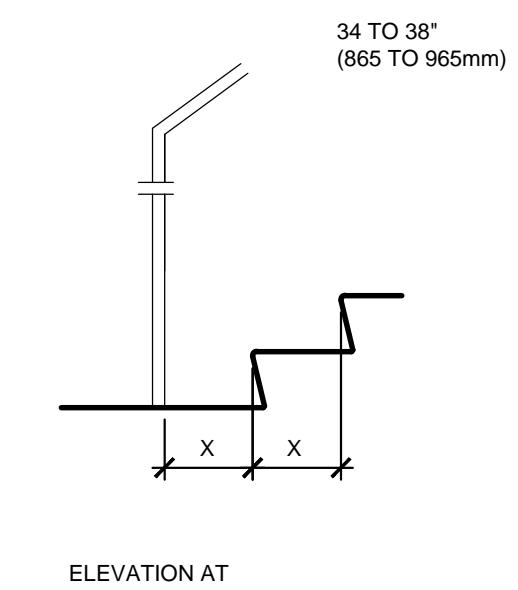
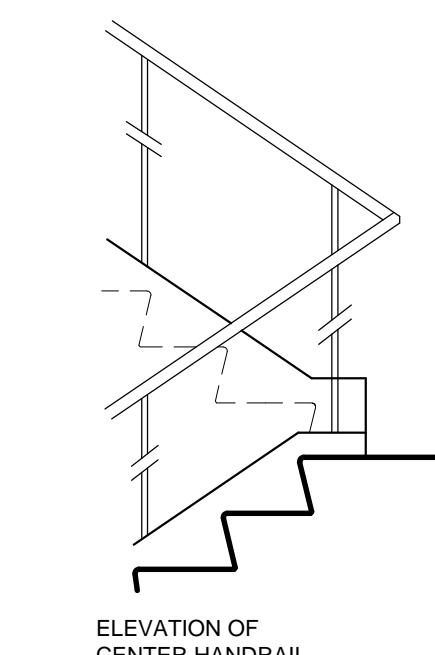
804 KITCHENS AND KITCHENETTES (DOES NOT APPLY TO BREAK ROOMS)

#### HANDRAILS

1. PROVIDE CONTINUOUS HANDRAILS AT BOTH SIDES OF RAMPS AND STAIRS; THE INSIDE EXTENSIONS AS SHOWN IN THE RAMP AND STAIR EXAMPLES;
2. IF HANDRAILS ARE NOT CONTINUOUS AT BOTTOM, TOP, OR LANDINGS, PROVIDE HANDRAIL ENDS TO BE ROUNDED OR RETURNED SMOOTHLY TO FLOOR, WALL, OR POST.
3. HANDRAILS SHALL NOT BE ATTACHED TO CONCRETE OR STONE CONSTRUCTION SHOWN; GRIPPING SURFACES TO BE UNINTERRUPTED BY NEVEL POSTS OR OTHER CONSTRUCTION ELEMENTS; HANDRAILS SHALL NOT ROTATE WITHIN THEIR FITTINGS.
4. HANDRAIL STRENGTH AND FASTENINGS MIN. TO SUPPORT 250 LBF MIN. BENDING MOMENT ON BAR, SHEAR STRESS ON BAR/FASTENER 250 LBF MIN., TENSILE FORCE ON BAR/FASTENER MIN 250 LBF.

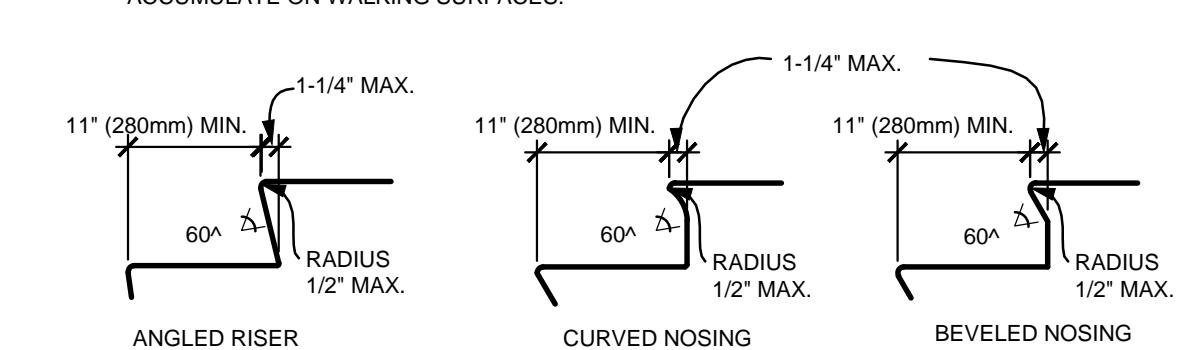


NOMINAL SIZE AND SPACING OF HANDRAILS AND GRAB BARS



505 HANDRAILS

STAIRS: INTERIOR OR EXTERIOR STAIRS CONNECTING LEVELS NOT CONNECTED BY ELEVATOR, RAMP, OR LIFT MUST COMPLY WITH THE FOLLOWING:  
1. OPEN RISERS AND TREADS; MINIMUM 11 IN. TREAD; OPEN RISERS NOT PERMITTED.  
2. NOSINGS AS SHOWN.  
3. HANDRAILS AS SHOWN AND DESCRIBED.  
4. DESIGN OUTDOOR STAIRS AND APPROACHES SO THAT WATER DOES NOT ACCUMULATE ON WALKING SURFACES.



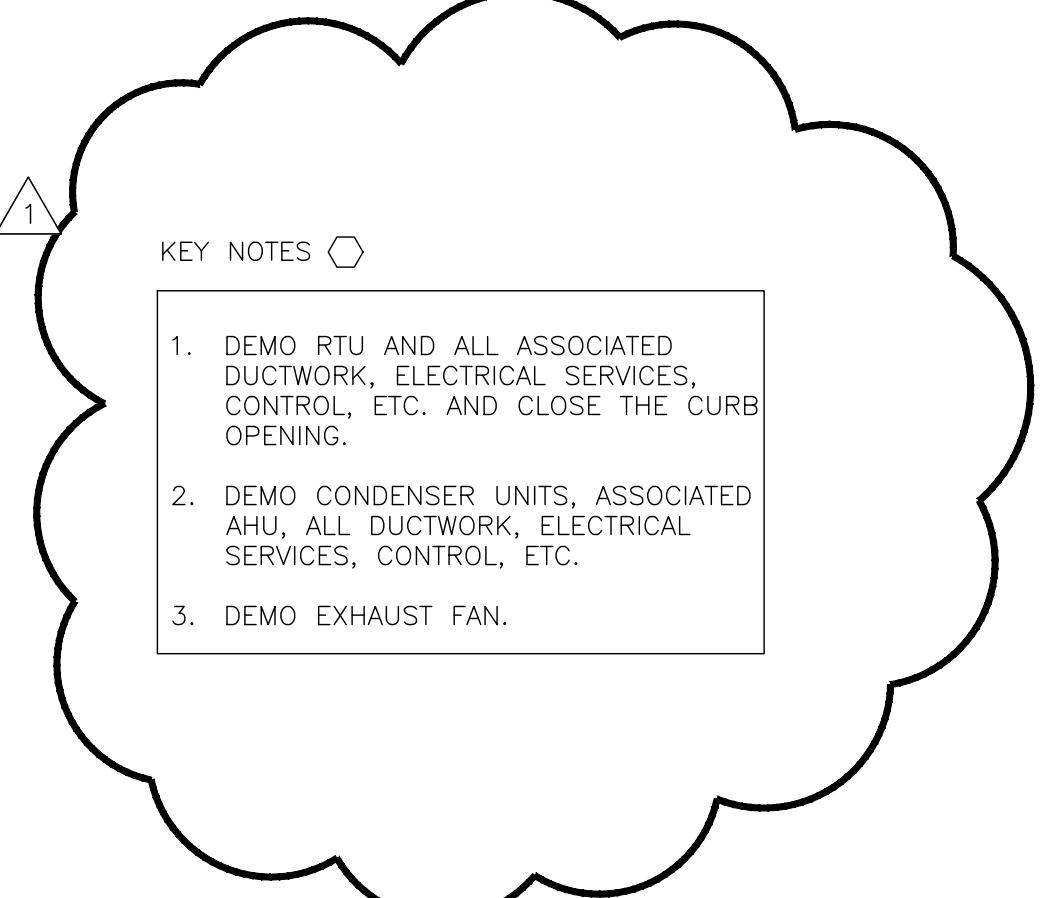
504 STAIRS

REVISIONS



## 01 DEMOLITION HVAC FLOOR PLAN

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



| MECHANICAL SYMBOL LEGEND |                           |  |                                      |
|--------------------------|---------------------------|--|--------------------------------------|
| SYMBOL                   | DESCRIPTION               | SYMBOL   | DESCRIPTION                          |
| →                        | DIRECTION OF FLOW         | —  | LINED DUCTWORK                       |
| (T)                      | TEMPERATURE SENSOR        | —  | RECTANGULAR ELBOW WITH TURNING VANES |
| —                        | GATE VALVE                | —  | ROUND FLEXIBLE DUCT CONNECTION       |
| —                        | CHECK VALVE               | —  | 90 DEGREE ELBOW DOWN                 |
| —                        | STRAINER                  | —  | 90 DEGREE ELBOW UP                   |
| —                        | UNION                     | —  | FLEXIBLE DUCT CONNECTION             |
| —                        | PRESSURE GAUGE            | —  | SUPPLY AIR DEVICE                    |
| —                        | THERMOMETER               | —  | DUCT SIZE TRANSITION                 |
| (S)                      | S.D. SMOKE DAMPER         | —  | BACKDRAFT DAMPER                     |
| —                        | MANUAL BALANCING DAMPER   | —  | AUTOMATIC FLOW CONTROL VALVE         |
| M                        | MOTORIZED DAMPER          | —  | BALL VALVE                           |
| —                        | CEILING RETURN AIR DEVICE | —  | BUTTERFLY VALVE                      |
| —                        | SUPPLY DUCT RISER         | —  | UNDERCUT DOOR                        |
| —                        | RETURN DUCT RISER         | NOTE: NOT ALL SYMBOLS<br>MAY BE USED ON THIS<br>PROJECT. |                                      |

### GENERAL NOTES

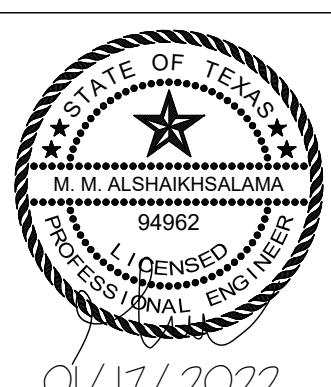
- A. ALL WORK SHALL COMPLY WITH THE CURRENT NFPA, UMC, IMC, NATIONAL, B. DUCT TRANSFORMATION IS ALLOWED, BUT THE CROSS-SECTIONAL AREA SHALL REMAIN THE SAME AND WITH 1" IN 4" MAXIMUM SLOPE.
- C. ROUND DUCT ELBOWS SHALL BE SMOOTH TYPE, AND RECTANGULAR ELBOWS SHALL BE RADIUS TYPE WITH INTERNAL VANES.
- D. ALL SUPPLY AND RETURN DUCTS SHALL BE EXTERNALLY INSULATED WITH 2" THICK NON-RIGID GLASS FIBER WITH VAPOR BARRIER.
- E. PROVIDE MANUAL DAMPER AT EACH OF THE LOW PRESSURE SUPPLY
- F. FLEXIBLE DUCT SHALL BE FLEXMASTER TYPE-5 OR APPROVED EQUAL.
- G. BALANCE AIR CFM TO VALUE AS SHOWN ON DRAWING.
- H. SIDE TAKEOFFS SHALL BE 45 DEGREE, UNLESS NOTED OTHERWISE.
- I. COORDINATE WITH OTHER TRADES TO AVOID CONFLICTS OF INSTALLATIONS.
- J. PROVIDE AND INSTALL VOLUME DAMPER ON ALL SUPPLY BRANCHES.
- K. CONTRACTOR TO FIELD VERIFY, LOCATION, FUNCTIONALITY, SIZE, ETC., OF

REVISIONS  
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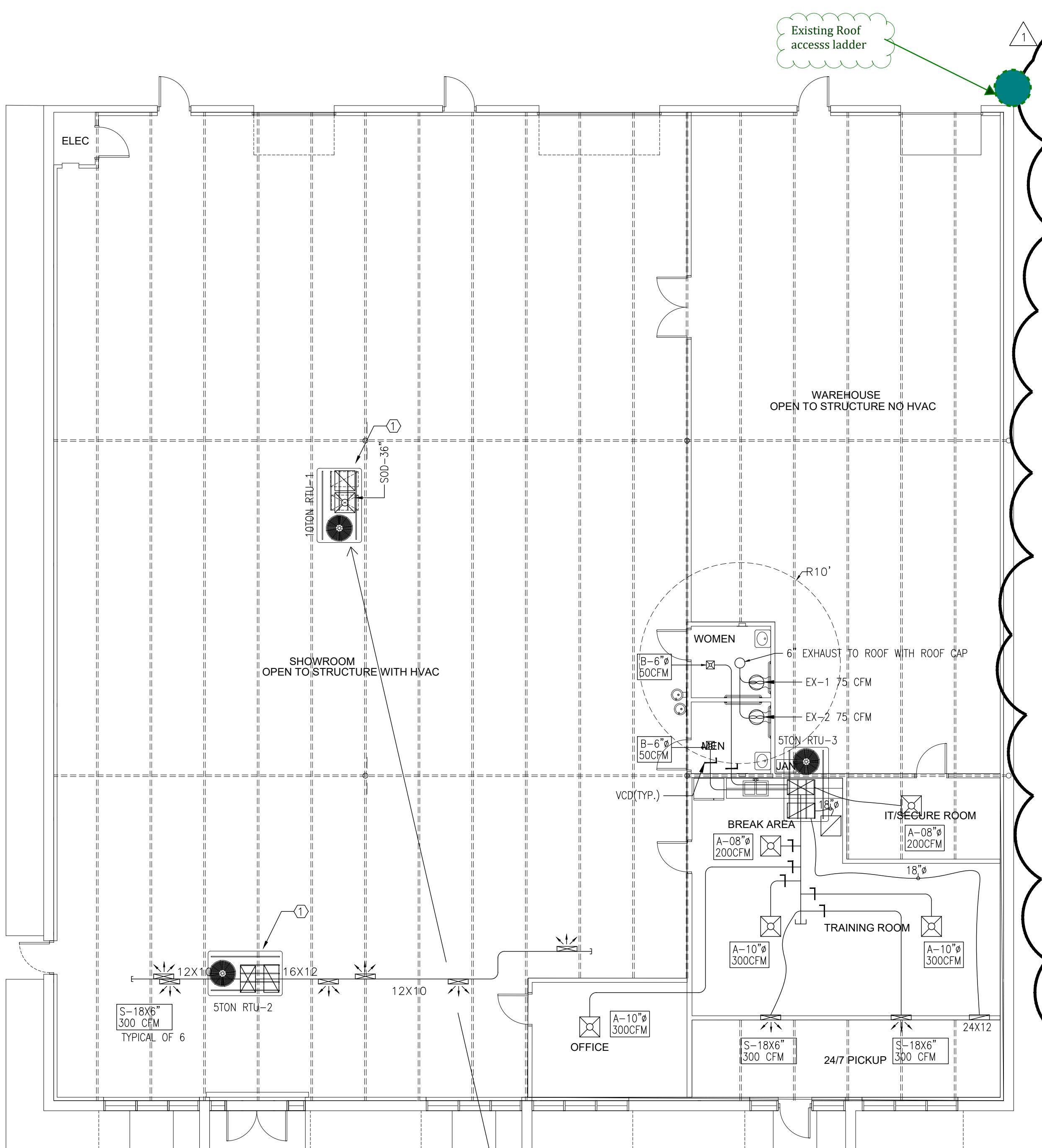
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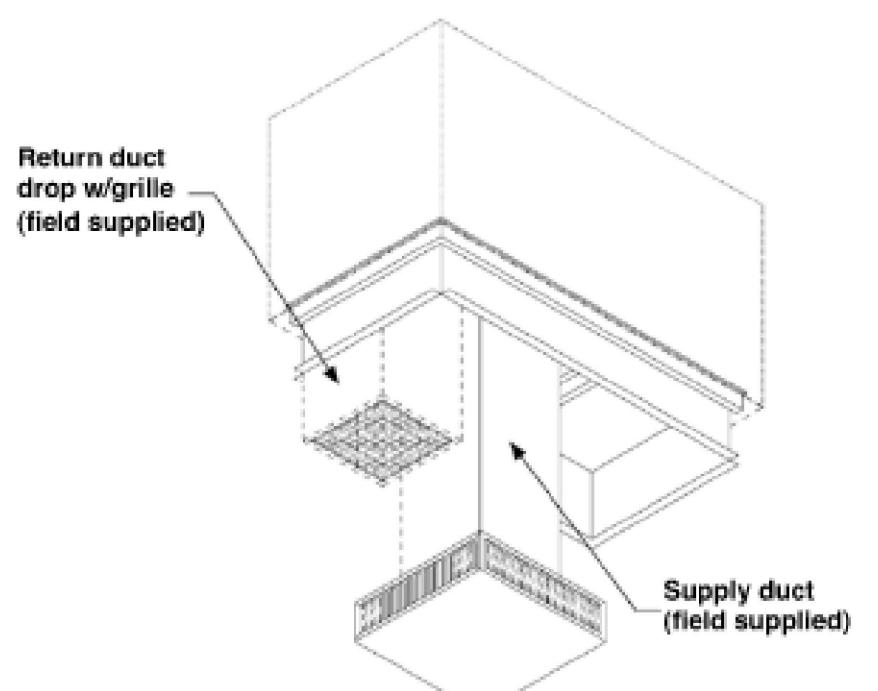
SHEET  
**M1-01**



## 01 HVAC FLOOR PLAN

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

### TYPICAL INSTALLATION



- Lightweight aluminum construction
- Internal air deflector
- Optional duct cap accessory
- Hanging supports with duct cap accessory

| Model # | CFM  | Neck Vel. | Static Throw | Noise | Unit Weight |
|---------|------|-----------|--------------|-------|-------------|
| SOD-24  | 600  | 270       | 0.04         | 12-17 | 20          |
|         | 800  | 364       | 0.06         | 16-22 | 20          |
|         | 1000 | 450       | 0.07         | 20-28 | 20          |
|         | 1200 | 536       | 0.09         | 24-33 | 20          |
|         | 1400 | 625       | 0.11         | 28-39 | 20          |
|         | 1600 | 714       | 0.14         | 33-44 | 25          |
|         | 1800 | 804       | 0.16         | 41-52 | 30          |
| SOD-36  | 2000 | 893       | 0.19         | 46-55 | 30          |
|         | 3600 | 810       | 0.19         | 49-54 | 25          |
|         | 3800 | 863       | 0.21         | 50-55 | 25          |
|         | 4000 | 909       | 0.23         | 51-56 | 30          |
|         | 4200 | 955       | 0.26         | 53-60 | 30          |
|         | 4400 | 1000      | 0.30         | 54-62 | 30          |

| 3-10 Ton R-410A PKGD Unitary Gas/Electric Rooftop Schedule |                        |               |               |  |
|--|------------------------|---------------|---------------|--|
| Unit Tags  | 5-TON                  | 10-TON        |               |  |
| Quantity   | 2                      | 1             |               |  |
| Tag  | RTU-2                  | RTU-1         |               |  |
|  | RTU-3                  |               |               |  |
| Model Number   | YSC060G3               | YSC120H3      |               |  |
| Fan Performance  | CFM (cfm)              | 2000          | 4000          |  |
|  | ESP (in H2O)           | 0.5           | 0.5           |  |
| Cooling Coil Performance                                   | Gross Cooling Capacity | 59.96         | 116.26        |  |
|  | EAT DB (F)             | 80            | 80            |  |
|  | EAT WB (F)             | 67            | 67            |  |
|  | LAT DB (F)             | 59.47         | 59.02         |  |
|  | LAT WB (F)             | 58.29         | 58.14         |  |
| Gas Heating Performance                                    | LAT Rise (F)           | 30.3          | 24.6          |  |
|  | EAT (F)                | 70            | 70            |  |
|  | LAT (F)                | 100.3         | 94.6          |  |
| Cooling Energy Efficiency                                  | EER (EER)              | 12            | 11.2          |  |
|  | IEER                   | 14            | 12.7          |  |
| Electrical Data  | MCA (A)                | 29            | 49            |  |
|  | MOCP (A)               | 40            | 60            |  |
|  | Voltage                | 208-230/60/3  | 208-230/60/3  |  |
| Extra  | Weight (lb)            | 797           | 1384          |  |
| Notes  |                        | 1, 2, 3, 4, 5 | 1, 2, 3, 4, 5 |  |

NOTES:

1. Unit to be Trane packaged rooftop unit with model, size, and configuration as indicated in schedule and on drawings
2. Provide factory-mounted DDC unit controller
3. Provide with zone temperature sensor
4. Provide factory-installed phase monitor
5. Provide return and supply air smoke

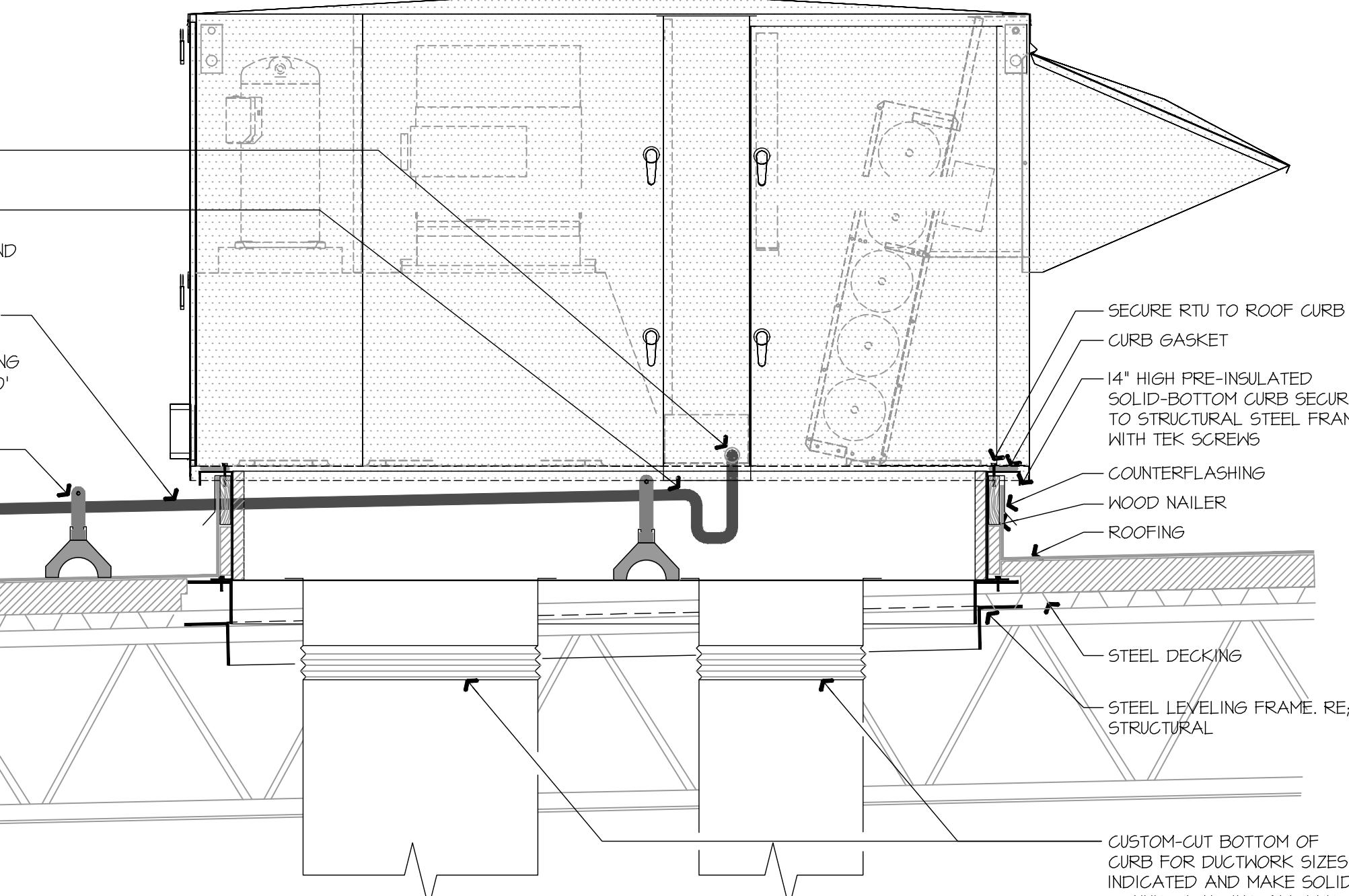
KEY NOTES ◊

1. NEW RTU. RUN NEW 3" CONDENSATE LINE TO THE MOP SINK. IF POSSIBLE UTILIZE EXISTING RTU OPENING AND CURB. IF NO CURB AVAILABLE, BUY THE DEMOLITION OF THE EXISTING RTU. FILED VERIFY THE FINAL LOCATION, THE SIZE, AND THE POSSIBILITY OF USING CURB ADAPTOR.

| TAG     | FLOW RATE | STATIC PRESSURE | MOTOR DATA | BASIS OF DESIGN |           |
|---------|-----------|-----------------|------------|-----------------|-----------|
|         |           |                 |            | EXTERNAL LOAD   | VOLTAGE   |
|         |           |                 |            |                 |           |
| EX-1, 2 | 75        | .25             | 80         | 120/1/60        | GREENHECK |
|         |           |                 |            |                 | SP-80-VG  |

NOTES:  
1. FURNISH BACKDRAFT DAMPER.  
2. WILL BE SWITCHED ON BY LIGHT SWITCH.

| GENERAL NOTES   |  |  |  |  |  |  |  |
|---|--|--|--|--|--|--|--|
| A. ALL WORK SHALL COMPLY WITH THE CURRENT NFPA, UMC, IMC, NATIONAL, DUCT TRANSFORMATION IS ALLOWED, BUT THE CROSS-SECTIONAL AREA SHALL REMAIN THE SAME AND WITH 1" IN 4" MAXIMUM SLOPE. |  |  |  |  |  |  |  |
| C. ROUND DUCT ELBOWS SHALL BE SMOOTH TYPE, AND RECTANGULAR ELBOWS SHALL BE RADIUS TYPE WITH INTERNAL VANE.  |  |  |  |  |  |  |  |
| D. ALL SUPPLY AND RETURN DUCTS SHALL BE EXTERNALLY INSULATED WITH 2" THICK NON-RIGID GLASS FIBER WITH VAPOR BARRIER.  |  |  |  |  |  |  |  |
| E. PROVIDE MANUAL DAMPER AT EACH OF THE LOW PRESSURE SUPPLY FLEXIBLE DUCT SHALL BE FLEXMASTER TYPE-5 OR APPROVED EQUAL.   |  |  |  |  |  |  |  |
| G. BALANCE AIR CFM TO VALUE AS SHOWN ON DRAWING.  |  |  |  |  |  |  |  |
| H. SIDE TAKEOFFS SHALL BE 45 DEGREE, UNLESS NOTED OTHERWISE.  |  |  |  |  |  |  |  |
| I. COORDINATE WITH OTHER TRADES TO AVOID CONFLICTS OF INSTALLATIONS.  |  |  |  |  |  |  |  |
| J. PROVIDE AND INSTALL VOLUME DAMPER ON ALL SUPPLY BRANCHES.  |  |  |  |  |  |  |  |
| CONSULT WITH STRUCTURAL PROFESSIONAL ENGINEER ON ROOF STRUCTURE SUPPORT DESIGN, PRIOR THE INSTALLATION OF THE ROOF TOP UNITS, EXHAUST.  |  |  |  |  |  |  |  |



## 03 ROOFTOP UNIT CURB DETAIL

SCALE: NTS

FRESH AIR CALCULATIONS UMC-2021 TABLE 402.1

| Name                       | Occupancy Category | Zone Floor Area | # Persons/1000 | Zone Population | People Outdoor Air Rate | Area Outdoor Air Rate | Breathing Zone Outdoor Airflow | Zone Air Distribution Effectiveness | Zone Outdoor Airflow |
|----------------------------|--------------------|-----------------|----------------|-----------------|-------------------------|-----------------------|--------------------------------|-------------------------------------|----------------------|
| Retail                     | Store              | 5911            | 15             | 89              | 7.5                     | 0.12                  | 1374                           | 1                                   | 1374                 |
| Office                     | Office             | 176             | 5              | 3               | 5                       | 0.06                  | 26                             | 1                                   | 26                   |
| Training Rm                | Conference         | 465             | 50             | 23              | 5                       | 0.06                  | 144                            | 1                                   | 144                  |
| Break RM                   | Break RM           | 127             | 50             | 6               | 5                       | 0.12                  | 47                             | 1                                   | 47                   |
| Total Outdoor required CFM |                    |                 |                |                 |                         |                       |                                |                                     | 1591                 |
| Total Outdoor provided CFM |                    |                 |                |                 |                         |                       |                                |                                     | 1700                 |

| Air Balance  | Supply (CFM) | Exh. (CFM) |
|--------------|--------------|------------|
| RTU-1        | 1000         |            |
| RTU-2        | 400          |            |
| RTU-3        | 300          |            |
| E(Restrooms) | 0            | 75         |
| <b>TOTAL</b> | <b>1700</b>  | <b>75</b>  |

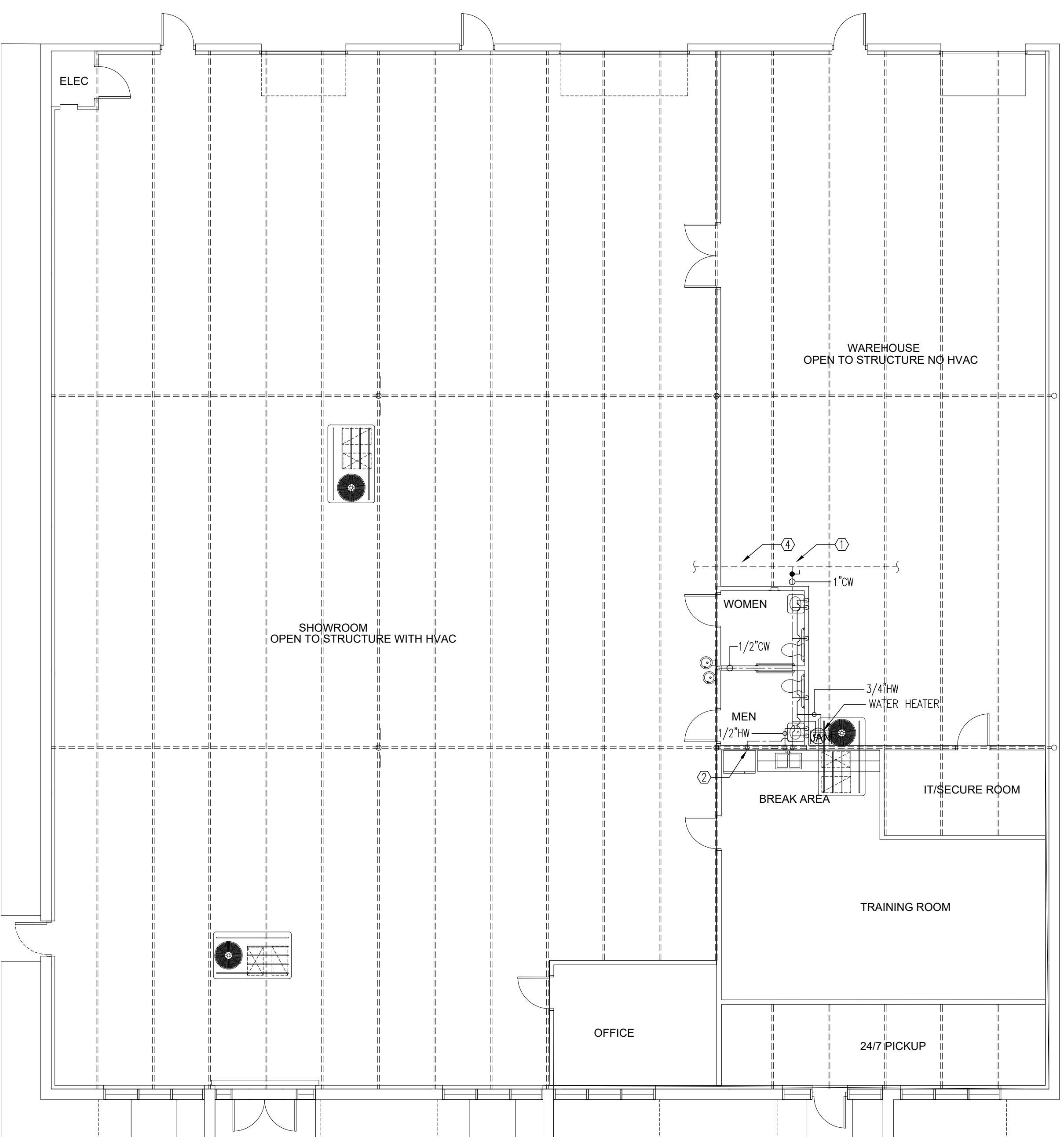
The space is Positive

SCALE: NTS

## 04 FRESH AIR CALCULATIONS

SCALE: NTS

| MARK | DESCRIPTION | MANUFACTURER MODEL No. | MAX. NC LEVEL (1) | REMARKS |
</tr
| --- | --- | --- | --- | --- |



## 01 PLUMBING WATER FLOOR PLAN

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

| PLUMBING FIXTURE SCHEDULE |                            |      |      |       |      |         |  |
|---------------------------|----------------------------|------|------|-------|------|---------|--|
| SYMBOL                    | DESCRIPTION                | CW   | HW   | WASTE | VENT | GPM     | REMARKS  |
| WC                        | WATER CLOSET (HANDICAPPED) | 1/2" | --   | 4"    | 3"   | 1.1 GPF | AMERICAN STANDARD 2467100.020 CADET 1.1 GPF 2-PIECE ELONGATED TOILET WITH 12-IN ROUGH-IN, AND OPEN FRONT SEAT, WHITE.      |
| LV                        | LAVATORY                   | 1/2" | 1/2" | 2"    | 2"   | 0.5     | HYDROTEK ADA COMPLIANT HB-2603C, POLISHED CHROME FINISH  |
| HS                        | SINK                       | 1/2" | 1/2" | 2"    | 2"   | 2       | ELANTI (HOME DEP) MODEL NO. EC9868, WALL-HUNG; WHITE   |
| FD                        | FLOOR DRAIN                | --   | --   | --    | --   | --      | J.R. SMITH MODEL 2010 WITH POLISHED BRASS GRATE AND 1/2" TRAP PRIMER CONNECTION. SEE FLOOR PLAN FOR SIZES. FINISHED AREAS. |
| MOP                       | SERVICE SINK               | 1/2" | 1/2" | 2"    | 2"   | 1.5     | MOLDED STONE, 24 IN OVERALL LENGTH, 20 IN OVERALL WIDTH, 13 3/8 IN BOWL DEPTH. FIAT PRODUCTS MODEL#FL7TG100                |
| WF                        | WATER FOUNTAIN             | 1/2" | --   | 2"    | 2"   | 1.2     | ELKAY ADA BARRIER FREE WATER COOLER, LIGHT GRAY GRANITE, 2 STATION, REVERSIBLE, EZSTLBC                                    |

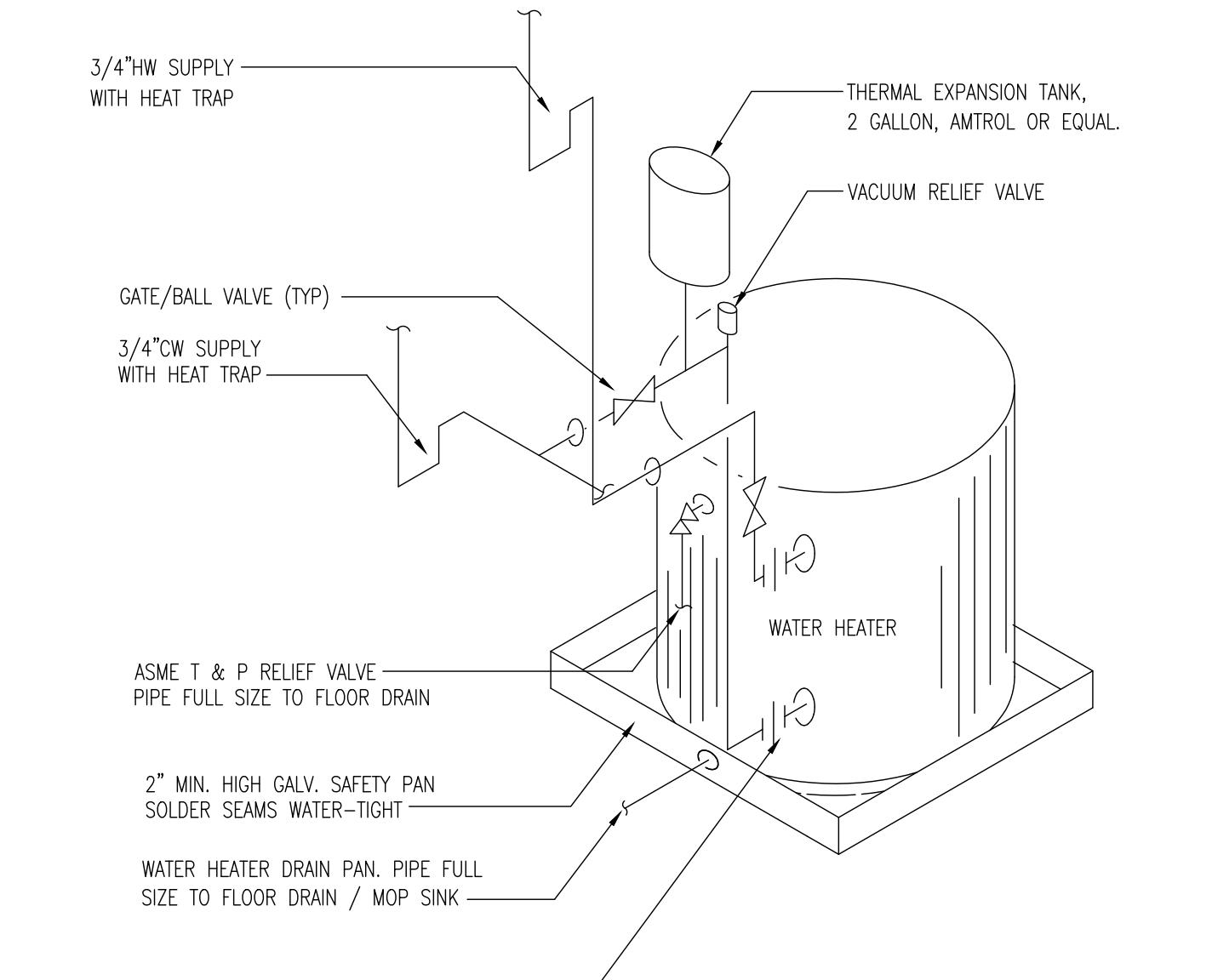
| PLUMBING WATER HEATER (ELECTRICAL) SCHEDULE |      |         |      |                  |              |                              |            |
|---|------|---------|------|------------------|--------------|------------------------------|------------|
| TAG   | KW   | VOLTAGE | AMP  | STORAGE CAPACITY | MANUFACTURER | MODEL                        | WATER CON. |
| WH  | 4500 | 208     | 21.7 | 20               | RHEEM        | #EGSP20 208V 31CE01 GRAINGER | 3/4"       |

KEY NOTES: ◊

1. CONNECT TO EXISTING CW LINE. FIELD VERIFY FINAL LOCATION.
2. 1/2" CW FOR REFRIGERATOR.
3. EXISTING CW LINE.

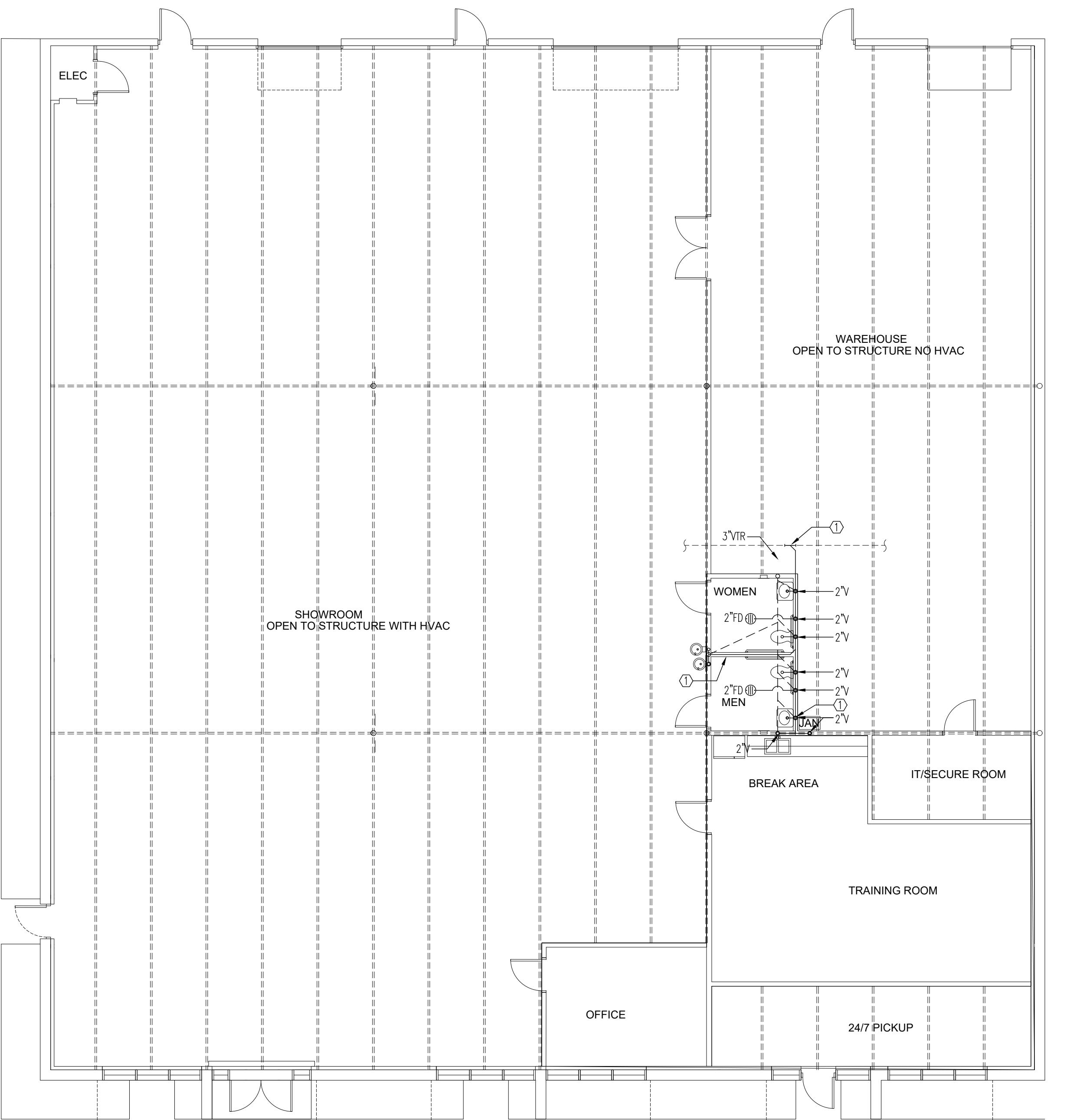
GENERAL NOTES

1. INSULATE ALL HOT WATER PIPING WITH  $1\frac{1}{2}$ " ARMAFLEX
2. PROVIDE 3/8" CW SUPPLY TO ALL FLOOR DRAIN TRAP PRIMERS, IF PRIMERS ARE REQUIRED BY LOCAL CODE.
3. THIS CONTRACTOR SHALL PROVIDE WATER CONNECTIONS TO THE PROPER UTILITY AS SHOWN ON THE SITE PLANS.
4. WATER PIPING RUN BELOW FLOOR. NO JOINTS OR FITTING ALLOWED BELOW FLOOR.
5. LOCATE ALL VENTS ON REAR ROOFS. LOCATE ALL VENTS 10' AWAY FROM ANY EXHAUST OR INTAKE DUCT.
6. ALL CLEANOUTS ARE TO BE THE FULL SIZE OF THE SANITARY OR WASTE BRANCH TO WHICH THEY ARE INSTALLED.
7. ALL SANITARY AND WASTE LINE ARE TO BE SLOPED AT 1/4" PER FT.
8. ALL WATER CLOSETS SHALL BE A MINIMUM OF 15" FROM CENTERLINE OF BOWL TO ADJACENT SHALL UNLESS NOTED ON PLAN. FLUSH CONTROLS SHALL BE ON THE OPEN SIDE OF THE WC, AWAY FROM WALL.
9. CONTRACTOR IS CAUTIONED THERE IS A LONG LEAD TIME FOR JR. CLOSETS & THE ROUGH-IN IS NOT A STANDARD DIMENSION.
10. GROUT/SEAL ALL FIXTURES TO THE WALL OR FLOOR.
11. NOT USED
12. THIS CONTRACTOR SHALL PROVIDE SEWER CONNECTIONS TO THE PROPER UTILITY AS SHOWN ON THE SITE UTILITY PLANS.
13. PROVIDE ACCESSIBLE SINKS, 4" MAX. DEPTH FINISH TO MATCH ADJACENT SINKS. FAUCETS SHALL BE MOUNTED 18" MAX. FROM FRONT EDGE OF CABINET.
14. PRIMARY CONDENSATE DRAIN FROM AHUs TO BE 2" PVC PIPE, TIE DIRECTLY INTO SAN SEWER. SECONDARY DRAINS TO OUTSIDE. SEE MECH PLAN FOR LOCATION.



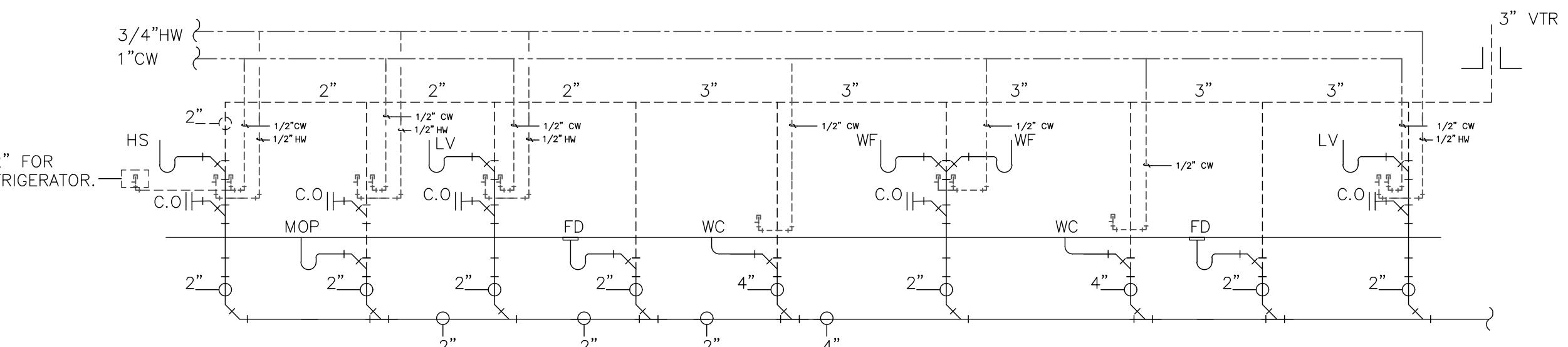
WATER HEATER DETAIL

SCALE: NONE



# 01 WASTE VENT FLOOR PLAN

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



# 02 WASTE VENT FLOOR PLAN

SCALE: NTS

## HVAC CONDENSATE NOTE:

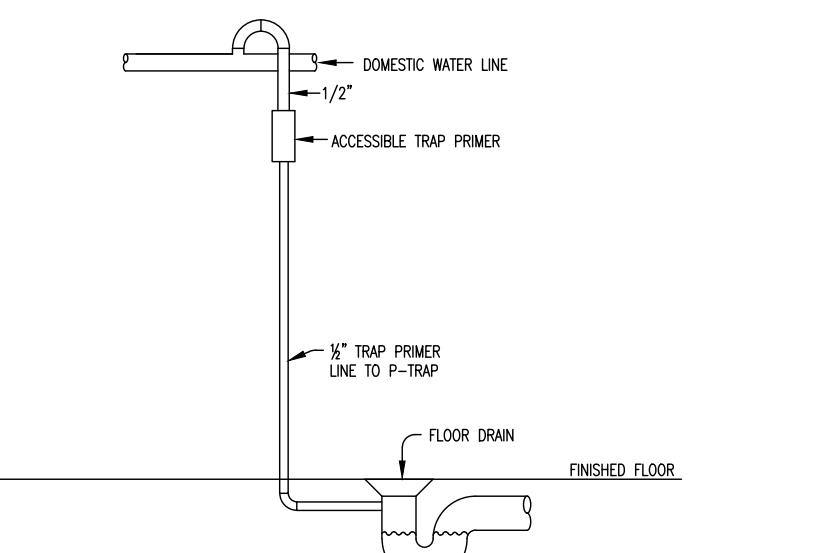
PROVIDE INDIRECT CONDENSATE DRAIN TO MOP SINK FOR ALL CONDENSATE DRAINS OF THE HVAC SYSTEMS.

# GENERAL NOTES

- A. ALL PLUMBING WORK SHALL COMPLY WITH CURRENT NATIONAL, STATE AND LOCAL PLUMBING CODES.
- B. COORDINATE WITH OTHER TRADES TO AVOID CONFLICTS OF INSTALLATIONS.
- C. ALL EXPOSED PIPING SHALL BE NEAT AND STRAIGHT WITH ESCUTCHEONS AT WALL PENETRATIONS.
- E. PROVIDE ALL NECESSARY SUPPLEMENTARY CLAMPS, BRACES, ETC. TO PROPERLY AND ADEQUATELY SUPPORT ALL PLUMBING DEVICES.
- F. WHERE PIPING PENETRATIONS A FIRE RATED ASSEMBLY, FIRE CAULK AND SEAL GAP WITH INTUMESCENT FIRESTOP SEALANT, HILTI FS-ONE OR APPROVED EQUAL.
- G. ALL PLUMBING WORKS SHALL BE TESTED, INSPECTED AND APPROVED BEFORE BEING COVERED AND CONCEALED AS REQUIRED.
- H. ALL WASTE/VENT PIPING SHALL BE SCHEDULE 40 PVC.
- I. ALL WATER PIPING SHALL BE TYPE "L" COPPER WITH LEAD FREE SOLDER (95/5).
- J. ALL WASTE AND VENT PIPING MATERIALS USED INCLUDING FITTINGS AND ACCESSORIES SHALL MEET ALL LOCAL CODE REQUIREMENTS.
- K. PROVIDE AIR GAP AT ALL INDIRECT WASTE DISCHARGE AS REQUIRED BY ALL LOCAL CODE.

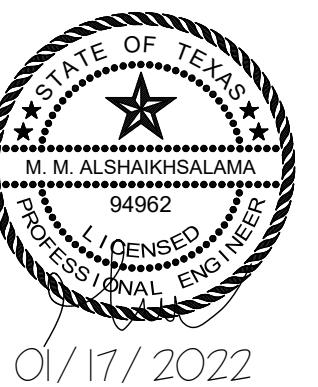
## LEGEND

| SYMBOL  | DESCRIPTION           | SYMBOL  | DESCRIPTION               |
|---|-----------------------|---|---------------------------|
| — CW ——   | LAB COLD WATER        | ● —   | POINT OF CONNECTION       |
| — HW ——   | LAB HOT WATER         | ○ CS  | CUP SINK                  |
| — SD —  | SANITARY DRAIN & VENT | ♀ —   | FAUCET                    |
|  | BALL VALVE            | — —   | TURNED DOWN               |
|  | CHECK VALVE           | — —   | TURNED UP                 |
|  | FLOW METER            | — HWS —   | HOT WATER SUPPLY          |
|  | WALL CLEAN-OUT        | — HWR —   | HOT WATER RETURN          |
|  | FD                    |  | REDUCED PRESSURE BACKFLOW |
|  | FS                    |  | PRESSURE REDUCING VALVE   |
|  | Y-STRAINER            | ○ FCO   | FLOOR CLEAN-OUT           |



## TRAP PRIMER CONNECTION DETAIL

SCALE: NONE



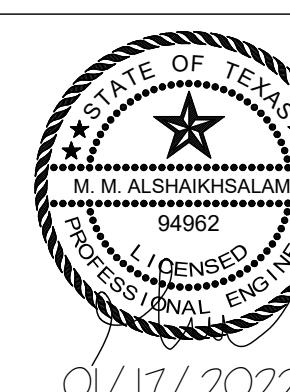
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1. *What is the primary purpose of the study?* (e.g., to evaluate the effectiveness of a new treatment, to describe a population, to compare two groups, to predict an outcome, to explore a phenomenon)

1 200

**P1-03**



## ABBREVIATIONS

(NOTE: ALL ABBREVIATIONS SHOWN ARE NOT NECESSARILY USED ON DRAWINGS.)

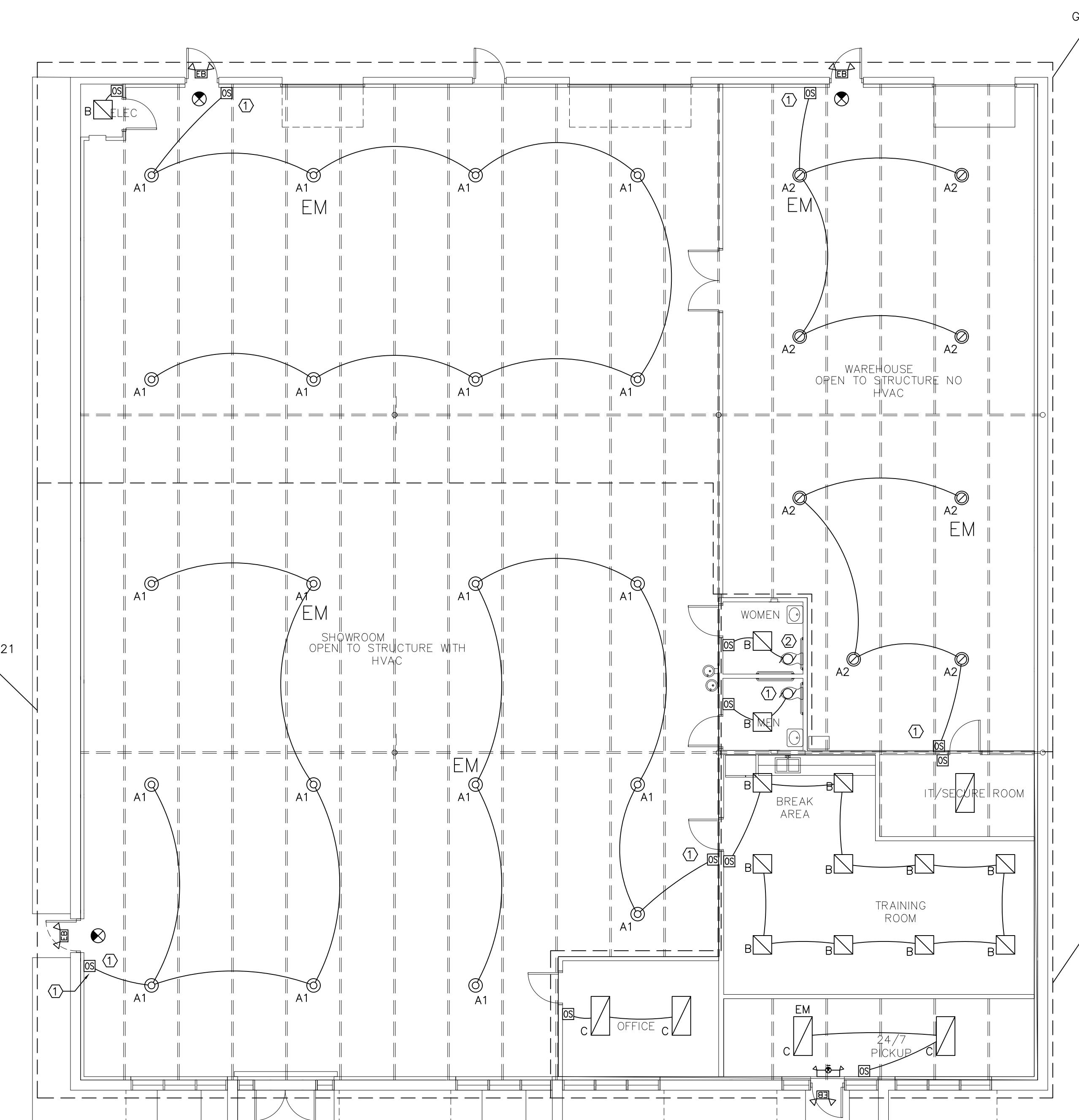
|          |   |
|----------|---|
| A        | AMPERE  |
| ACN      | AIR CURTAIN   |
| AFF      | ABOVE FINISHED FLOOR                                  |
| AFG      | ABOVE FINISHED GRADE                                  |
| AHU      | AIR HANDLING UNIT                                     |
| AIC      | AMPERE INTERRUPTING CAPACITY                          |
| ANSI     | AMERICAN NATIONAL STANDARDS INSTITUTE                 |
| AT       | AMP TRIP  |
| ATS      | AUTOMATIC TRANSFER SWITCH                             |
| AWG      | AMERICAN WIRE GAUGE                                   |
| B        |   |
| BFG      | BELOW FINISHED GRADE                                  |
| BPS      | BOLTED PRESSURE SWITCH                                |
| C        |   |
| CA       | COMPRESSED AIR  |
| CB       | CIRCUIT BREAKER                                       |
| CCTV     | CLOSED CIRCUIT TELEVISION                             |
| CF       | COMPACT FLUORESCENT                                   |
| CFCI     | CONTRACTOR FURNISHED, CONTRACTOR INSTALLED            |
| CKT      | CIRCUIT   |
| CLG      | CEILING   |
| CLK      | CLOCK   |
| CT'S     | CURRENT TRANSFORMERS                                  |
| CU       | CONDENSING UNIT OR COPPER                             |
| CUH      | CABINET UNIT HEATER                                   |
| D        |   |
| DBP      | DUPLEX DOMESTIC BOOSTER PUMP                          |
| DEMO     | DEMOLITION  |
| DISC SW  | DISCONNECT SWITCH                                     |
| DGP      | DATA GATHERING PANEL                                  |
| E        |   |
| EA       | EACH  |
| EC       | EMPTY CONDUIT   |
| EDF      | ELECTRIC DRINKING FOUNTAIN                            |
| EF       | EXHAUST FAN   |
| ELEC     | ELECTRICAL  |
| EMT      | ELECTRICAL METALLIC TUBING                            |
| EPO      | EMERGENCY POWER OFF                                   |
| EQUIP    | EQUIPMENT   |
| EWC1     | ELECTRIC WATER COOLER                                 |
| EWH      | ELECTRIC WATER HEATER                                 |
| EXIST    | EXISTING  |
| EXP      | EXPLOSION PROOF                                       |
| F        |   |
| FACP     | FIRE ALARM CONTROL PANEL                              |
| FCU      | FAN COIL UNIT   |
| FLA      | FULL LOAD AMPS  |
| FLUOR    | FLUORESCENT   |
| FP       | FIRE PUMP SYSTEM                                      |
| G        |   |
| GEC      | GROUND ELECTRODE CONDUCTOR                            |
| GEN      | GENERATOR OR GENERAL                                  |
| GFI/GFCI | GROUND FAULT CIRCUIT INTERRUPTER                      |
| GND      | GROUND  |
| GRS      | GALVANIZED RIGID STEEL                                |
| H        |   |
| HID      | HIGH INTENSITY DISCHARGE                              |
| HPS      | HIGH PRESSURE SODIUM                                  |
| I        |   |
| IDS      | INTRUSION DETECTION SYSTEM                            |
| IEEE     | INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS     |
| IMC      | INTERMEDIATE METAL CONDUIT                            |
| INC      | INCANDESCENT  |
| IPS      | INTERRUPTIBLE POWER SUPPLY                            |
| K        |   |
| KAIC     | THOUSAND AMP INTERRUPTING CAPACITY<br>RMS SYMMETRICAL |
| KCML     | THOUSAND CIRCULAR MILS                                |
| KVA      | THOUSAND VOLT AMPERE                                  |
| KW       | KILOWATT  |
| Z        |   |
| %Z       | PERCENT IMPEDANCE                                     |

|         |  |
|---------|--|
| L       | LOCKED ROTOR AMPS  |
| LSI     | LONG TIME/SHORT TIME/INSTANTANEOUS TRIP SETTINGS INCLUDING WITH CIRCUIT BREAKER    |
| LSIC    | L/T/S T/I/T/GROUND FAULT TRIP SETTINGS INCLUDED WITH CIRCUIT BREAKER               |
| M       |  |
| MCA     | MINIMUM CIRCUIT AMPERES  |
| MCB     | MAIN CIRCUIT BREAKER   |
| MCC     | MOTOR CONTROL CENTER   |
| MDP     | MAIN DISTRIBUTION PANEL  |
| MFR     | MANUFACTURER   |
| MH      | METAL HALIDE   |
| MLO     | MAIN LUGS ONLY   |
| MOPC    | MAXIMUM OVERCURRENT PROTECTION   |
| MSB     | MAIN SWITCHBOARD   |
| MTD     | MOUNTED  |
| MTG HT  | MOUNTING HEIGHT  |
| MV      | MERCURY VAPOR  |
| N       |  |
| NC      | NORMALLY CLOSED  |
| NEC     | NATIONAL ELECTRICAL CODE   |
| NECA    | NATIONAL ELECTRICAL CONTACTORS ASSOCIATION   |
| NEMA    | NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION                                      |
| NFPA    | NATIONAL FIRE PROTECTION ASSOCIATION   |
| NIC     | NOT IN CONTRACT  |
| NL      | NIGHT LIGHT  |
| NO      | NUMBER OF NORMALLY OPEN  |
| NTS     | NOT TO SCALE   |
| O       |  |
| OFCI    | OWNER FURNISHED, CONTRACTOR INSTALLED  |
| OFOI    | OWNER FURNISHED, OWNER INSTALLED   |
| P       |  |
| PH      | PHASE  |
| PNL     | PANELBOARD   |
| PT'S    | POTENTIAL TRANSFORMERS   |
| Q       |  |
| QTZ     | QUARTZ   |
| R       |  |
| RCPT    | RECEPTACLE   |
| REP     | REPRESENTATIVE   |
| REQ'D   | REQUIRED   |
| RLA     | RUNNING LOAD AMPERES   |
| RTU     | ROOF TOP UNIT  |
| S       |  |
| SC      | SPLIT BRANCH CIRCUIT INDICATES REFERENCED BRANCH CIRCUIT HAS MORE THAN ONE HOMERUN |
| SQ FT   | DESIGNATION SHOWN<br>SQUARE FEET   |
| T       |  |
| TEL     | TELEPHONE  |
| TV      | TELEVISION   |
| TYP     | TYPICAL  |
| U       |  |
| UH      | UNIT HEATER  |
| UON     | UNLESS OTHERWISE NOTED   |
| UPS     | UNINTERRUPTIBLE POWER SUPPLY   |
| V       |  |
| V       | VOLT   |
| VA      | VOLT AMPERE  |
| VRS     | VARIABLE AIR VOLUME  |
| VFD/VSD | VARIABLE FREQUENCY/SPEED DRIVE   |
| W       |  |
| W       | WIRE   |
| W/      | WITH   |
| WPS     | WITHOUT  |
| WP      | WEATHERPROOF   |
| X       |  |
| XFMR    | TRANSFORMER  |
| XMTR    | TRANSMITTER  |
| MPER SW | TRANSFER SWITCH  |
| Z       |  |
| %Z      | PERCENT IMPEDANCE  |

## LEGEND

(NOTE: ALL SYMBOLS SHOWN ARE NOT NECESSARILY USED ON DRAWINGS.)

|            |   |  |
|------------|---|--|
| LIGHTING   | ● | UTILITY POLE.  |
| 2X4 1X4 A  | ○ | DOWN GUY.  |
| B          | ● | TRANSFORMER POLE.  |
| 2X4 OR B A | ■ | PAD MOUNTED UTILITY SERVICE TRANSFORMER.   |
| 1          | ○ | DISTRIBUTION & CONTROLS  |
| 1 X Y      | ■ | ELECTRICAL PANEL BOARD.  |
| 1 K        | ■ | ELECTRICAL SWITCHBOARD.  |
| 1 P        | ■ | NON-FUSED DISCONNECT SWITCH. 30A/3P NEMA 1 UON. 30A = SWITCH RATING, 3P = NO. OF POLES, NEMA 1 = ENCLOSURE STYLE.                |
| 1 H        | ■ | FUSED DISCONNECT SWITCH. 30/3P NEMA 1 UON. FUSE SIZE AS NOTED. 30A = SWITCH RATING, 3P = NO. OF POLES, NEMA 1 = ENCLOSURE STYLE. |
| 1 M        | ■ | MAGNETIC MOROR STARTER. SIZE 1, NEMA 1 UON.  |
| 1 M        | ■ | COMBINATION DISCONNECT AND MAGNETIC STARTER. SIZE 1, NEMA 1 UON.   |
| 1 C        | ■ | CONTROLLER PROVIDED WITH EQUIPMENT (HVAC, ELEVATOR, ETC.) INSTALLED BY DIVISION 16.  |
| 1 OS       | ■ | CONTACTOR, RATING AND NO. OF POLES AS INDICATED.   |
| 1 OS 2P    | ■ | PHOTO-ELECTRIC SWITCH. INSTALLED WITH SENSOR ELEMENT FACING NORTH, FLUSH MOUNTED WHERE POSSIBLE, UON.                            |
| 1 OS 2P    | ■ | TIME SWITCH.   |
| 1 WOS      | ■ | TRANSFER SWITCH.   |
| 1 HOS      | ■ | JUNCTION BOX.  |
| 1 SPP      | ■ | JUNCTION BOX, FLUSH, WALL MOUNTED AT 18" AFF, UON.   |
| 1 PP       | ■ | MOTOR.   |
| 1 MD       | ■ | MOTORIZED DAMPER.  |
| 1 OR TR    | ■ | TRANSFORMER, RATING AS INDICATED.  |
| 1 C        | ↔ | DRAW-OUT POWER CIRCUIT BREAKER, RATING AND NO. OF POLES AS INDICATED.  |
| 1 C        | ↔ | THERMAL AND/OR MAGNETIC CIRCUIT BREAKER, RATING AND NO. OF POLES AS INDICATED.   |
| 1 GFI      | ■ | FUSE, RATING AS INDICATED.   |
| 1 IG       | ■ | UTILITY COMPANY REVENUE METER UON.   |
| 1 E        | ■ | EQUIPMENT CONNECTION. COORDINATE WITH MANUFACTURERS' REPRESENTATIVE.   |
| 1 V        | ■ | SURGE PROTECTION DEVICE.   |
| 1 PB       | ■ | PULL BOX, SIZE PER NEC, UON.   |
| 1 FACP     | ■ | FIRE ALARM SYSTEM  |
| 1 ANN      | ■ | FIRE ALARM CONTROL PANEL.  |
| 1 SPD      | ■ | FIRE ALARM REMOTE ANNUNCIATOR.   |
| 1 PB       | ■ | FIRE ALARM MANUAL STATION, INSTALL 48" AFF.  |
| 1 F        | ■ | FIRE ALARM MANUAL STATION, INSTALL 48" AFF WITH HORN/STROBE ABOVE.   |
| 1 F        | ■ | FIRE ALARM MANUAL STATION, INSTALL 48" AFF WITH STROBE ABOVE.  |
| 1 F        | ■ | FIRE ALARM AREA SMOKE DETECTOR, INSTALL ON CEILING UON. "F" INDICATES UNDER RAISED FLOOR.  |
| 1 D        | ■ | DUCT MOUNTED SMOKE DETECTOR.   |
| 1 D        | ○ | DUCT MOUNTED SMOKE DETECTOR REMOTE INDICATING SENSOR AND LIGHT, INSTALLED 54" AFF.   |
| 1 G        | ■ | FIRE ALARM FIXED-TEMPERATURE RATE-OF-RISE HEAT DETECTOR, 135 DEGREES C UON.  |
| 1 G        | ■ | FIRE ALARM AUDIO/VISUAL DEVICE, INSTALL 80" AFF, UON. "C" INDICATES CEILING MOUNTED.   |
| 1 G        | ■ | FIRE ALARM VISUAL DEVICE, INSTALL 80" AFF, UON. "C" INDICATES CEILING MOUNTED.   |
| 1 FS       | ■ | SPRINKER SYSTEM FLOW SWITCH.   |
| 1 SS       | ■ | SPRINKER SYSTEM SUPERVISORY SWITCH.  |



## 01 LIGHTING FLOOR PLAN

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

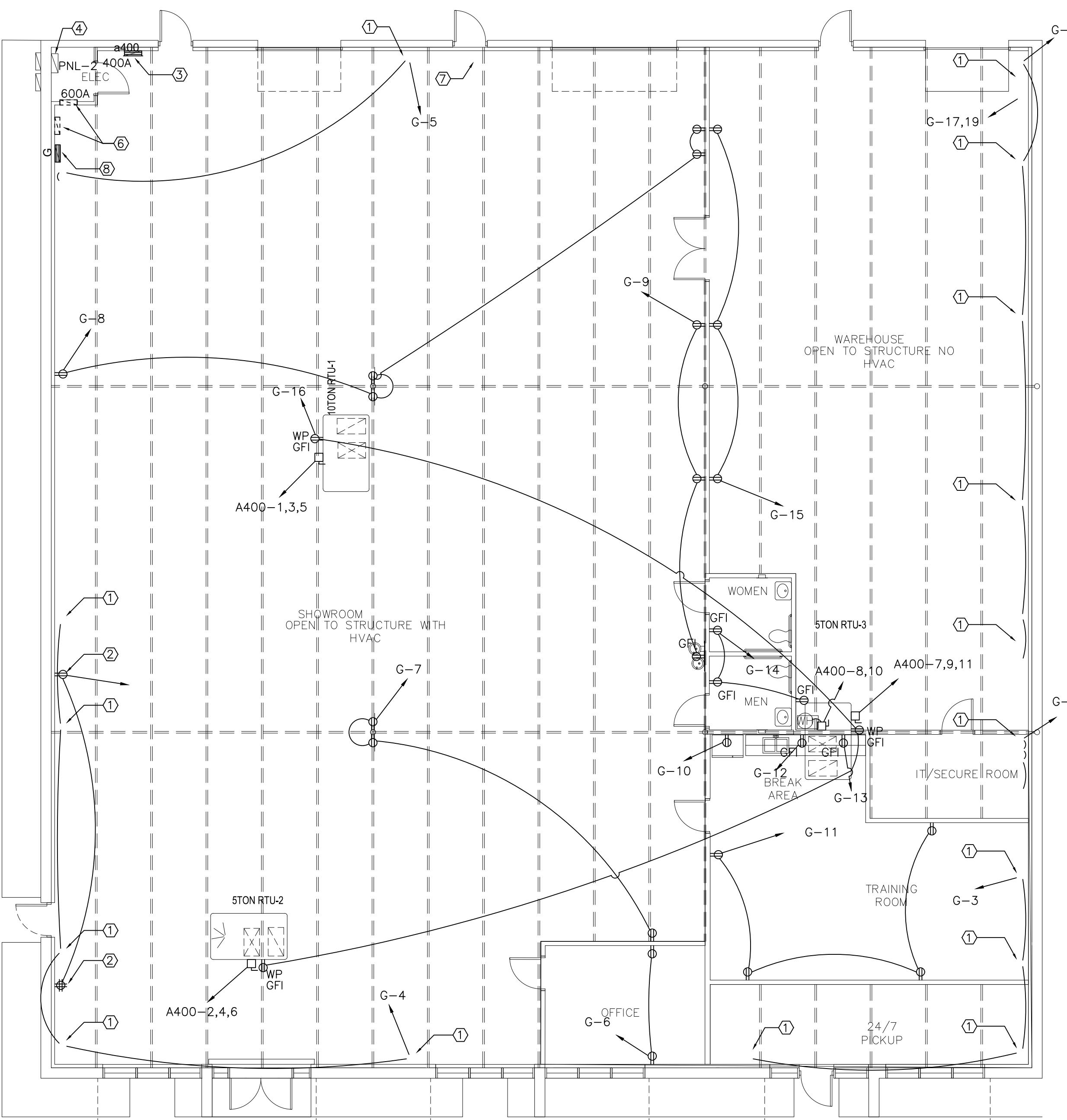
KEY NOTES

1. IN SHOWROOM WAREHOUSE, OCCUPANCY SENSORS WILL AUTOMATICALLY REDUCE LIGHTING POWER BY AT LEAST 50% WHEN AREAS ARE UNOCCUPIED. EACH AISLE MUST BE SEPARATELY CONTROLLED.
2. EXHAUST FAN WILL BE ON WITH LIGHT

| LEGEND |   |
|--------|---|
|        | 120V RECEPTACLE NEMA# (5-20R)<br>HUBBELL CATALOG NO. (5R5362) |
|        | JUNCTION BOX.   |
|        | EMERGENCY LIGHT.  |
|        | INDICATES FUSED DISCONNECT SWITCH.                            |
|        | MOTOR STARTER   |
|        | EXIT SIGN   |
|        | NEW ELECTRICAL PANEL.   |
|        | OCUPANCY SENSOR LIGHT SWITCH (TYPICAL)                        |
|        | 3-WAY SWITCH.   |

| GENERAL NOTES |  |
|---------------|--|
| A.            | ALL ELECTRICAL WORK SHALL COMPLY WITH THE CURRENT NATIONAL (NEC) STATE, AND LOCAL ELECTRICAL CODES.                      |
| B.            | ALL DATA JACKS AND RECEPTACLES SHALL BE MOUNTED AT 18" A.F.F., AND GFI RECEPTACLES AT 48" A.F.F. UNLESS NOTED OTHERWISE. |
| C.            | ELECTRICAL CONTRACTOR SHALL COORDINATE WITH MILL WORK, MECHANICAL, AND PLUMBING WORK BEFORE ANY RELATED ELECTRICAL WORK. |
| D.            | ELECTRICIAN & PLUMBER TO COORDINATE ALL ELECTRICAL AND PLUMBING ROUGH-INS WITH OWNER SUPPLIED EQUIPMENT CUT SHEET.       |

| LIGHTING FIXTURE LEGEND |       |          |  |              |           |       |  |
|-------------------------|-------|----------|--|--------------|-----------|-------|--|
| SYMBOL                  | LABEL | QUANTITY | Fixture  | MANUFACTURER | TYPE      | WATTS | NOTES                                    |
|                         | A1    | 20       | COMPACT PRO HIGHBAY, 12000 LUMENS, STANDARD EFFICIENCY GLARE CONTROL LENS, WIDE DISTRIBUTION, 40K, 80CRI | LITHONIA     | 40K       | 78.95 | @12'-0" A.F.F.                           |
|                         | A2    | 8        | COMPACT PRO HIGHBAY, 9000 LUMENS, STANDARD EFFICIENCY GLARE CONTROL LENS, WIDE DISTRIBUTION, 40K, 80CRI  | LITHONIA     | 40K       | 60.92 | @12'-0" A.F.F.<br>PROVIDE EMERGENCY PACK |
|                         | B     | 12       | EPANL 2X2, 4800 NOMINAL LUMENS, 80 CRI, 3500K CCT  | LITHONIA     | 3500K     | 35.69 | @9'-0" A.F.F.                            |
|                         | C     | 5        | EPANL 2X4, 4800 NOMINAL LUMENS, 80 CRI, 3500K CCT  | LITHONIA     | LED 4000K | 45.17 | @9'-0" A.F.F.                            |
|                         |       |          | EXISTING EXIT EMERGENCY SIGN AND LIGHT   | LITHONIA     | LED 4000K | 29.85 |  |
|                         | EM    |          | BATTERY BACKUP   |              |           |       |  |
|                         | EM    |          | EMERGENCY EXIT SIGN -WHITE   |              |           |       | REFER TO GENERAL NOTES                   |
|                         | OS    |          | ELM2LF EMERGENCY LIGHT   |              |           |       |  |
|                         |       |          | SWITCH- TWO STAGE OR DIMMABLE OCCUPANCY SENSOR W/ MANUAL OVERRIDE DIMMABLE IN CONFERENCE ROOM            |              |           |       |  |



## 01 POWER FLOOR PLAN

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

## KEY NOTES

1. EXISTING TO REMAIN AND CONNECTED TO PANEL PLA (TYPICAL)
2. NEW RECEPTACLE CONNECT TO PANLE PLA (TYPICAL)
3. EXISTING ELECTRICAL PANELS TO REMAIN. (TYPICAL)
4. EXISTING MAIN SERVICE PANEL
5. EXISTING TRANSFORMER
6. DEMO EXISTING PANEL
7. DEMO RECEPTACLE
8. RECONNECT EXISTING PANEL TO EXISTING PANEL a400. FIELD VERIFY THE POSSIBILITY OF USING THE EXISTING 3PHASE 150 AMP BREAKER TO FEED a400.

## GENERAL NOTES

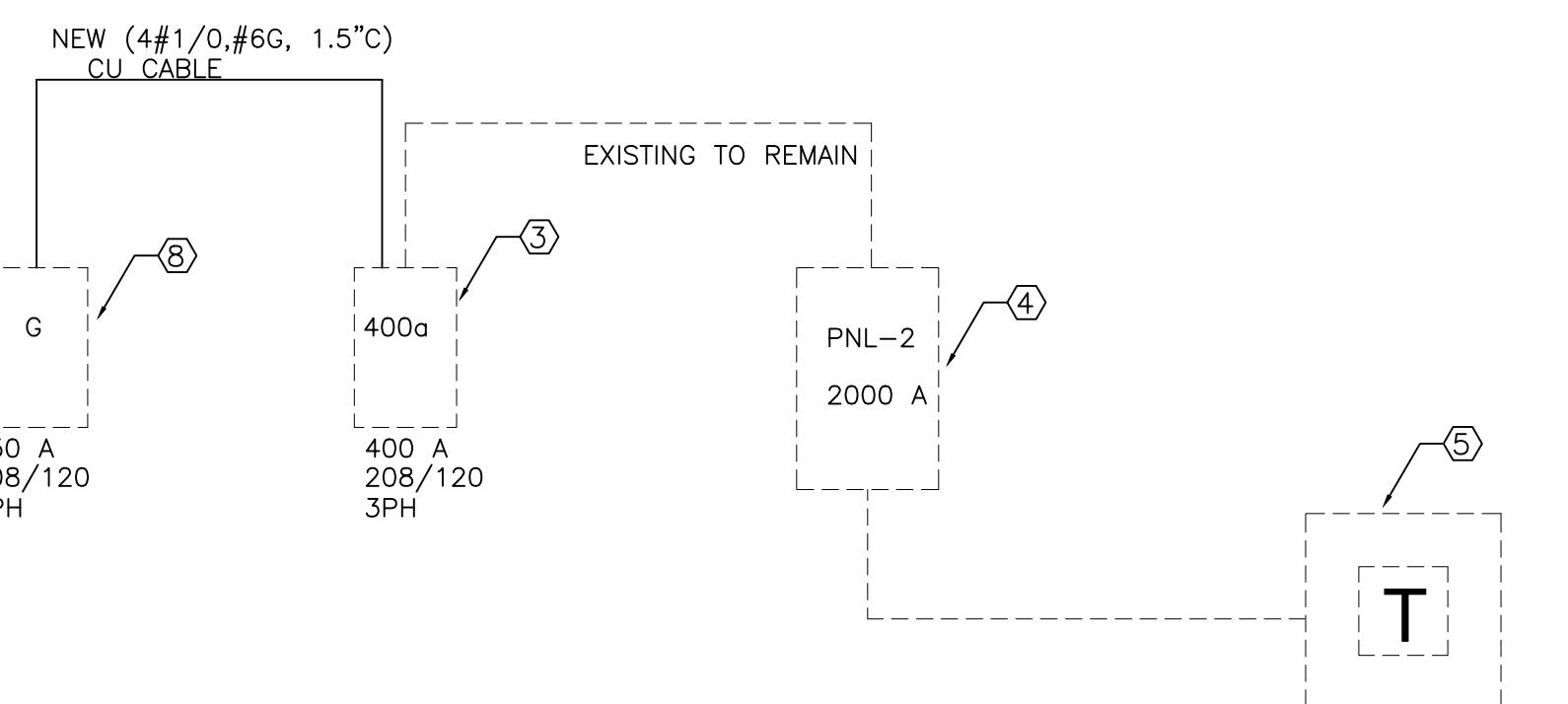
- A. ALL ELECTRICAL WORK SHALL COMPLY WITH THE CURRENT NATIONAL (NEC), STATE, AND LOCAL ELECTRICAL CODES.
- B. ALL DATA JACKS AND RECEPTACLES SHALL BE MOUNTED AT 18" A.F.F., AND GFI RECEPTACLES AT 48" A.F.F. UNLESS NOTED OTHERWISE.
- C. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH MILL WORK, MECHANICAL, AND PLUMBING WORK BEFORE ANY RELATED ELECTRICAL WORK.
- D. ELECTRICIAN & PLUMBER TO COORDINATE ALL ELECTRICAL AND PLUMBING ROUGH-INS WITH OWNER SUPPLIED EQUIPMENT CUT SHEET.

| PANEL                     |             |              |      | a400                             |      |          |      |           |              |           |       |
|---------------------------|-------------|--------------|------|----------------------------------|------|----------|------|-----------|--------------|-----------|-------|
| VOLTAGE (L-N):            |             | 120          |      | ENCLOSURE TYPE:                  |      | ---      |      |           |              |           |       |
| VOLTAGE (L-L):            |             | 208          |      | MOUNTING:                        |      | RECESSED |      |           |              |           |       |
| PHASES, WIRES:            |             | 3 $\phi$ 4 W |      | AIC RATING (A):                  |      | 22       |      |           |              |           |       |
| MINIMUM BUS CAPACITY (A): |             | 400 A        |      | NOTES:                           |      | ----     |      |           |              |           |       |
| MAIN O.C. DEVICE (A):     |             | 400 A        |      |                                  |      |          |      |           |              |           |       |
| CKT NO                    | DESCRIPTION | TRIP AMPS    | POLE | PHASE LOADS (VA)                 |      |          | POLE | TRIP AMPS | DESCRIPTION  | CKT NO    |       |
|                           |             |              |      | A                                |      | B        |      |           |              |           | C     |
| 1,3,5                     | RTU 10-TON  | 70           | 3    | 5880                             | 3480 |          | 3    | 40        | RTU 5-TON    | 2,4,6     |       |
| 1,3,5                     | RTU 10-TON  | 70           | 3    |                                  | 5880 | 3480     | 3    | 40        | RTU 5-TON    | 2,4,6     |       |
| 1,3,5                     | RTU 10-TON  | 70           | 3    |                                  |      | 5880     | 3480 | 3         | 40           | RTU 5-TON | 2,4,6 |
| 7,9,11                    | RTU 5-TON   | 40           | 3    | 3480                             | 2225 |          | 2    | 20        | WATER HEATER | 8,10      |       |
| 7,9,11                    | RTU 5-TON   | 40           | 3    |                                  | 3480 | 2225     | 2    | 20        | WATER HEATER | 8,10      |       |
| 7,9,11                    | RTU 5-TON   | 40           | 3    |                                  |      | 3480     | 0    | 1         | 20           | Space     | 12    |
| 13                        | Space       | 20           | 1    | 0                                | 0    |          | 1    | 20        | Space        | 14        |       |
| 15                        | Space       | 20           | 1    |                                  | 0    | 0        | 1    | 20        | Space        | 16        |       |
| 17                        | Space       | 20           | 1    |                                  |      | 0        | 0    | 1         | 20           | Space     | 18    |
| 19                        | Space       | 20           | 1    | 0                                | 0    |          | 1    | 20        | Space        | 20        |       |
| 21                        | Space       | 20           | 1    |                                  | 0    | 0        | 1    | 20        | Space        | 22        |       |
| 23                        | Space       | 20           | 1    |                                  |      | 0        | 0    | 1         | 20           | Space     | 24    |
| SFCB                      | PANEL PLA   | 150          | 3    | 8400                             | ---- |          | ---- | ----      | ----         | ----      |       |
| SFCB                      | PANEL PLA   | 150          | 3    |                                  | 6240 | ----     | ---- | ----      | ----         | ----      |       |
| SFCB                      | PANEL PLA   | 150          | 3    |                                  |      | 5520     |      |           |              |           |       |
|                           |             |              |      | CONNECTED LOAD PHASE TOTALS (VA) |      |          |      |           |              |           |       |
|                           |             |              |      | 23465                            |      | 21305    |      | 18360     |              |           |       |

|                                       | CONNECTED LOAD<br>(KVA) | DEMAND FACTOR | DEMAND LOAD (KVA) | DEMAND LOAD    | 68.0 KVA   |
|---------------------------------------|-------------------------|---------------|-------------------|----------------|------------|
| Equipment                             | 4.5                     | 1.00          | 4.5               | SPARE CAPACITY | 76.1 KVA   |
| Cooling and Heating                   | 20.9                    | 1.00          | 20.9              | SPARE CAPACITY | 211.3 AMPS |
| Kitchen Equipment - Non-Dwelling Unit | 2.4                     | 1.00          | 2.4               | SPARE CAPACITY | 53 %       |
| Lighting                              | 4.5                     | 1.25          | 5.6               | PHASE BALANCE  |            |
| Heating                               | 1.4                     | 1.00          | 1.4               | A TO B         | 91 %       |
| Motors                                | 0.5                     | 1.00          | 0.5               | B TO C         | 86 %       |
| Motors (Largest)                      | 17.6                    | 1.25          | 22.1              | C TO A         | 78 %       |
| Receptacles (0 - 10 KVA)              | 10.0                    | 1.00          | 10.0              |                |            |
| Receptacles (Over 10 KVA)             | 1.4                     | 0.50          | 0.7               |                |            |
| <b>TOTAL:</b>                         | <b>63.1</b>             |               | <b>68.0</b>       |                |            |

| VOLTAGE (L-N):                   |                     | 120          |      | ENCLOSURE TYPE:  |      | ---   |      |           |                     |        |
|----------------------------------|---------------------|--------------|------|------------------|------|-------|------|-----------|---------------------|--------|
| VOLTAGE (L-L):                   |                     | 208          |      | MOUNTING:        |      | FLOOR |      |           |                     |        |
| PHASES, WIRES:                   |                     | 3 $\phi$ 4 W |      | AIC RATING (A):  |      | 22    |      |           |                     |        |
| MINIMUM BUS CAPACITY (A):        |                     | 150 A        |      | NOTES:           |      | ----  |      |           |                     |        |
| MAIN O.C. DEVICE (A):            |                     | 150 A        |      |                  |      |       |      |           |                     |        |
| CKT NO                           | DESCRIPTION         | TRIP AMPS    | POLE | PHASE LOADS (VA) |      |       | POLE | TRIP AMPS | DESCRIPTION         | CKT NO |
|                                  |                     |              |      | A                | B    | C     |      |           |                     |        |
| 1                                | EXISTING RECEPTACLE | 20           | 1    | 1080             | 1440 |       | 1    | 20        | EXISTING RECEPTACLE | 2      |
| 3                                | EXISTING RECEPTACLE | 20           | 1    |                  | 720  | 1080  | 1    | 20        | EXISTING RECEPTACLE | 4      |
| 5                                | EXISTING RECEPTACLE | 20           | 1    |                  |      | 540   | 1    | 20        | OFFICE              | 6      |
| 7                                | SHOWROOM            | 20           | 1    | 540              | 900  |       | 1    | 20        | SHOWROOM            | 8      |
| 9                                | SHOWROOM            | 20           | 1    |                  | 860  | 1000  | 1    | 20        | BREAK RM            | 10     |
| 11                               | BREAK RM            | 20           | 1    |                  |      | 720   | 1    | 20        | BREAK RM            | 12     |
| 13                               | BREAK RM            | 20           | 1    | 1400             | 540  |       | 1    | 20        | GFI RESTROOM        | 14     |
| 15                               | WAREHOUSE           | 20           | 1    |                  | 540  | 540   | 1    | 70        | WP ON ROOF          | 16     |
| 17,19                            | WAREHOUSE           | 20           | 2    |                  |      | 1000  | 1    | 70        | LIGHTING            | 18     |
| 17,19                            | WAREHOUSE           | 20           | 2    | 1000             | 1500 |       | 1    | 70        | LIGHTING            | 20     |
| 21                               | LIGHTING            | 70           | 1    |                  | 1500 | 0     | 1    | 20        | SPACE               | 22     |
| 23                               | SPACE               | 20           | 1    |                  |      | 0     | 1    | 20        | SPACE               | 24     |
| 25                               | SPACE               | 20           | 1    | 0                | 0    |       | 1    | 20        | SPACE               | 26     |
| 27                               | SPACE               | 20           | 1    |                  | 0    | 0     | 1    | 20        | SPACE               | 28     |
| 29                               | SPACE               | 20           | 1    |                  |      | 0     | 1    | 20        | SPACE               | 30     |
| CONNECTED LOAD PHASE TOTALS (VA) |                     |              |      |                  |      |       |      |           |                     |        |
|                                  |                     |              |      | 8400             | 6240 | 5520  |      |           |                     |        |

|                                       | CONNECTED LOAD<br>(KVA) | DEMAND FACTOR | DEMAND LOAD (KVA) | DEMAND LOAD    | 20.9 KVA  |
|---------------------------------------|-------------------------|---------------|-------------------|----------------|-----------|
| Kitchen Equipment - Non-Dwelling Unit | 1.4                     | 1.00          | 1.4               | SPARE CAPACITY | 33.2 KVA  |
| Lighting                              | 4.5                     | 1.25          | 5.6               | SPARE CAPACITY | 92.1 AMPS |
| Heating                               | 1.4                     | 1.00          | 1.4               | PHASE BALANCE  | 61 %      |
| Motors                                | 0.5                     | 1.00          | 0.5               | A TO B         | 74 %      |
| Motors (Largest)                      | 1.0                     | 1.25          | 1.3               | B TO C         | 88 %      |
| Receptacles (0 - 10 KVA)              | 10.0                    | 1.00          | 10.0              | C TO A         | 66 %      |
| Receptacles (Over 10 KVA)             | 1.4                     | 0.50          | 0.7               |                |           |



## 02 ELECTRICAL RISER

SCALE: NTS

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**L-F02**