BOX REAL ESTATE DEVELOPMENT OFFICE

GENERAL NOTES

GENERAL CONTRACTOR AND ALL OTHER CONTRACTORS WORKING ON THIS CONSTRUCTION PROJECT SHALL MEET ALL APPLICABLE CODE REQUIREMENTS. ALL CONSTRUCTION AND MATERIALS SHALL COMPLY WITH ANY AND ALL APPLICABLE CODES, REGULATIONS, DIRECTIVES AND LAWS. CONTRACTOR SHALL BE KNOWLEDGEABLE OF ALL CITY REGULATIONS AND CODE ISSUES AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT UPON DISCOVERY OF ANY DISCREPANCIES ON THE DOCUMENTS OR CONDITIONS OF THE PROJECT SITE.

SUBSTANTIAL COMPLETION SHALL BE ESTABLISHED ON DELIVERY OF OCCUPANCY PERMIT. FINAL COMPLETION SHALL BE DEEMED COMPLETED WHEN ALL PUNCH LIST ITEMS ARE COMPLETED AND APPROVED, ALL SUPPORT EQUIPMENT INSTALLED AND COMPLETE. OWNER WILL DETERMINE FINAL COMPLETION.

THE RESPONSIBILITIES CONCERNING THE PREPARATION AND REVIEW OF THE APPLICATION FOR PAYMENT AND PAYMENT SCHEDULE SHALL BE ADDRESSED IN THE AGREEMENTS BETWEEN THE OWNER, ARCHITECT, AND CONTRACTOR.

THE ARCHITECT WILL BE AVAILABLE TO THE OWNER AND CONTRACTOR DURING CONSTRUCTION. THE ARCHITECT WILL ASSIST THE OWNER AND/OR CONTRACTOR IN OBTAINING A BUILDING PERMIT.

THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE CONSTRUCTION PROCESS, MATERIAL VERIFICATION, AND WORKER SAFETY.

THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR DETAILS AND ACCURACY, FOR CONFIRMING AND CORRELATING ALL QUANTITIES AND DIMENSIONS, AND FOR TECHNIQUES OF ASSEMBLY.

ALL CUTTING AND PATCHING SHALL BE PERFORMED IN A NEAT AND WORKMAN LIKE MANNER. 7 ANY EXISTING FINISHES DISTURBED OR DAMAGED BY THE CONTRACTOR OR TRADES UNDER CONTRACT DURING THE COURSE OF THE WORK SHALL BE REPAIRED TO MATCH EXISTING.

NO SUBSTITUTES OF SPECIFIED CONSTRUCTION ITEMS, EQUIPMENT AND FINISHES WILL BE ALLOWED WITHOUT WRITTEN APPROVAL FROM THE OWNER AND ARCHITECT.

ALL BIDDING CONTRACTOR(S) SHALL VISIT THE SITE OF THE PROPOSED WORK AND FULLY ACQUAINT THEMSELVES WITH THE EXISTING CONDITIONS OF THE PROJECT SITE, AS THEY CURRENTLY EXIST, SO THEY MAY FULLY UNDERSTAND THE FACILITIES, DIFFICULTIES AND RESTRICTIONS PRIOR TO SUBMITTING ANY BIDS.

10. THE CONTRACTOR SHALL PROVIDE THE OWNER WITH SCHEDULING INFORMATION PRIOR TO CONSTRUCTION, WHICH WILL BE UPDATED IF THERE ARE ANY CHANGES.

ALL REQUIRED COMMUNICATION SHALL BE THROUGH THE ARCHITECT AND OWNER. 11.

12. DO NOT SCALE DRAWINGS. THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOBSITE. INFORMATION CONTAINED IN THESE DRAWINGS IS GENERAL AND NOT BASED ON EXISTING DOCUMENTS AND FIELD MEASUREMENTS. THE INFORMATION CONTAINED HEREIN MAY REQUIRE ADJUSTMENTS OR MODIFICATIONS TO CONFORM TO EXISTING CONDITIONS AND DESIGN INTENT OF DOCUMENTS. THE CONTRACTOR MUST NOTIFY ARCHITECT OF ANY CONFLICTS AND/OR VARIATIONS.

CONTRACTOR SHALL FURNISH & INSTALL ALL ITEMS SHOWN ON THE DRAWINGS UNLESS 13. SPECIFICALLY NOTED OTHERWISE.

18. ALL CONTRACTORS SHALL GUARANTEE ALL WORK EXECUTED UNDER THIS CONTRACT; BOTH AS TO MATERIAL AND WORKMANSHIP, FOR A PERIOD OF TWELVE MONTHS AFTER DATE OF SUBSTANTIAL COMPLETION. IN ADDITION, ANY DAMAGE TO ADJACENT AREAS/SURFACES CAUSED BY FAULTY MATERIALS OR WORKMANSHIP SHALL ALSO BE REPAIRED TO THE OWNER'S SATISFACTION AT NO ADDITIONAL COST.

20. CONTRACTOR TO INSTALL ALL MATERIAL PER MANUFACTURERS' REQUIREMENTS, UL RATING REQUIREMENTS, SPECIFIC TRADE GUIDELINES, INDUSTRY STANDARDS, AND BUILDING CODES. ALL NEW FINISHES TO COMPLY WITH IBC CHAPTER 8.

21. PROVIDE SIGNAGE MEETING ADA REOUIREMENTS AND LOCATIONS DICTATED BY THE CITY AND LOCAL CODES. DESIGN, CONTENT, AND LOCATIONS SHALL BE PROVIDED TO THE OWNER AND ARCHITECT PRIOR TO INSTALLATION.

25. THE CONTRACTOR MUST SUBMIT TO OWNER AN INSURANCE CERTIFICATE WITH MINIMUM COVERAGE OF \$1,000,000 IN GENERAL LIABILITY OR EQUAL. THIS CERTIFICATE MUST NAME THE OWNER AS ADDITIONAL INSURED.

26. ALL CHANGES, DEVIATIONS, MODIFICATIONS, ADDITIONS OR DELETIONS FROM THE CONTRACT OF CONSTRUCTION OF APPROVED ARCHITECTURAL PLANS SHALL BE APPROVED BY THE OWNER AND ARCHITECT.

27. DIMENSIONS ARE FROM OUTSIDE FACE OF FULL BED MASONRY, OR FROM FACE OF MTL STUD ON ALL OTHER MATERIALS, UNLESS NOTED OTHERWISE. (THIN BRICK & THIN STONE VENEERS ARE DIMENSIONED TO FACE OF STUD).

28. CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING ALL INTERIOR SURFACES AND EXTERIOR DEBRIS SPECIFIC TO CONSTRUCTION ACTIVITIES PRIOR TO OCCUPANCY OF THE SPACES BY THE OWNER. ADDITIONAL CLEANING FOLLOWING THE RECONCILIATION OF PUNCHLIST ITEMS SHALL ALSO BE INCLUDED. FINAL CLEANUP SHALL CONSIST OF THE FOLLOWING:

- REMOVE ALL CONSTRUCTION DEBRIS, UNUSED MATERIALS, TOOLS, ETC. CLEAN INTERIOR AND EXTERIOR SURFACES OF STOREFRONT GLASS AND FRAMES
- CLEAN ALL FLOORS REPLACE ALL FILTER MEDIA IN HVAC SYSTEMS

LOCATOR PLAN



SCOPE SUMMARY

INTERIOR RENOVATION OF AN EXISTING OFFICE SPACE (T.I.). SCOPE INCLUDES INSTALLATION OF NEW PARTITIONS, DOORS, AND FINISHES. MEP & FIRE ALARM/SPRINKLER PACKAGES TO BE DESIGN/BUILD AND CONTRACTOR TO COORDINATE IT/AV/SECURITY INSTALLATION IN THE FIELD WITH TENANT VENDOR.

CODE REVIEW

APPLICABLE CODES:

- 2018 International Existing Building Code
- 2018 Uniform Plumbing Code 2018 International Energy Conservation Code
- 2018 International Mechanical Code
- 2018 International Fuel Gas Code 2018-International Private Sewage Disposal Code
- 1 {2018 International Fire Code 2017 National Electrical Code
- ICC/ANSI A117.1-2009, Accessible and Usable Buildings and Facilities
- CHAPTER 3 USE AND OCCUPANCY CLASSIFICATION BUSINESS, GROUP B
- CHAPTER 5 GENERAL BUILDING HEIGHTS AND AREAS [TABLE 503] THIS SCOPE OF WORK DOES NOT INCREASE THE AREA OF THE EXISTING BUILDING/TENANT SPACE.

TENANT RENOVATION AREA = 1,547 SF

CHAPTER 6 TYPE OF CONSTRUCTION CONSTRUCTION TYPE, IIB NON SPRINKLED

CHAPTER 9 FIRE PROTECTION SYSTEMS 907 - FIRE ALARMS ARE PROVIDED

FIRE EXTINGUISHERS TO BE PROVIDED IN ACCORDANCE WITH THE IBC NFPA 10 REQUIRED SMOKE DETECTORS TO BE PROVIDED ALL PROVIDED AND INSTALLED BY GENERAL CONTRACTOR

CHAPTER 10 MEANS OF EGRESS THE EXISTING BUILDING MEETS THE REQUIREMENTS FOR MEANS OF EGRESS.

> OCCUPANT LOAD: BUSINESS (1 PER 150 GSF) = 1,547 SF/150 = 11 OCC

CHAPTER 11 ACCESSIBILITY THE EXISTING BUILDING MEETS THE REQUIREMENTS FOR ACCESSIBLE ENTRIES. THE EXISTING PARKING SPACES MEET THE REQUIREMENTS FOR ACCESSIBLE PARKING.

CHAPTER 29 PLUMBING SYSTEMS

TWO NEW RESTROOMS HAVE BEEN PROVIDED

SITE LOCATION: 3140 SW LONGVIEW BLVD LEE'S SUMMIT, MO, 64081

PROJECT TEAM

OWNER + TENANT: BOX REAL ESTATE DEVELOPMENT 3175 SW Rockbridge Dr Lee's Summit, MO 64081 CONTACT: RUSSELL PEARSON P: 816 589 4415 E: rpearson@boxdevco.com

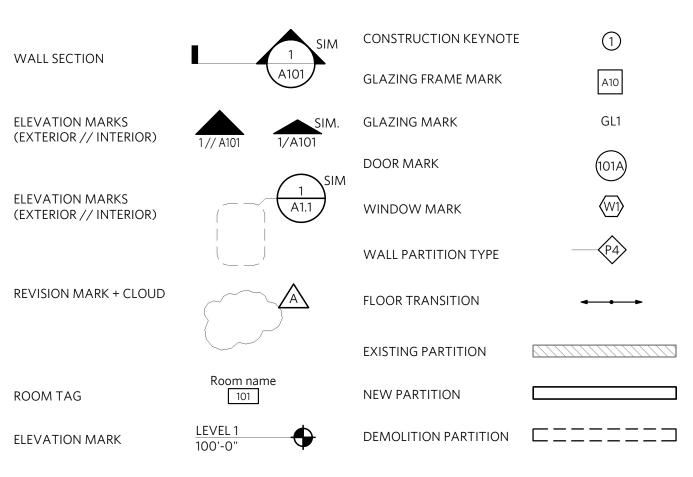
MEP: JSC ENGINEERS 1901 NW Blue Pkwy tower-3rd floor Unity Village, MO 64065 CONTACT: JUSTIN SMOTHERS P: 816 272 5289 E: jsmothers@jscengineers.com

ARCHITECTURAL:

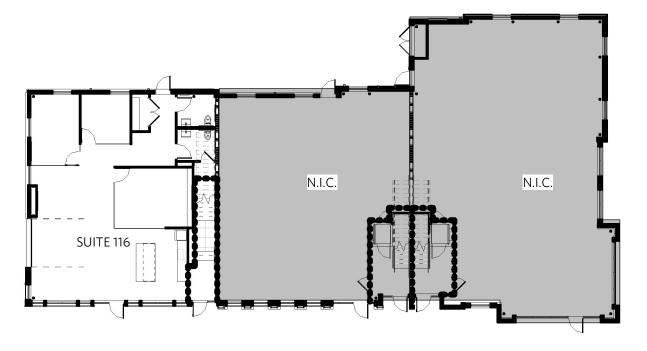
CLOCKWORK 423 DELAWARE ST. SUITE 102 KANSAS CITY, MO 64105 CONTACT: LARA SCHNEIDER P: 816.769.2855 E: lara@clockwork-ad.com

CONTRACTOR: MONARCH BUILD 8100 Newton, Suite 300 Overland Park, KS 66204 CONTACT: DAVID ADAMS P: 913 942 2405 E: david.adams@monarch.build

DRAWING SYMBOLS



KEY PLAN



SHEET INDEX

ARCHITECTURAL

	_A000	TITLE SHEET
$\Lambda^{(}$	AQ01	WALL TYPES AND ULLISTINGS
/1	A100	FLOOR PLAN
	A150	REFLECTED CEILING PLAN & DETAILS
	A400	INTERIOR ELEVATIONS
	A500	INTERIOR DETAILS
	A600	FINISH PLAN & LEGEND
	A700	RENDERINGS
	A701	RENDERINGS

<u>MECH / PLUMB</u>

MP001 MECHANICAL/PLUMBING SYMBOLS, SCHEDULES AND SPECIFICATIONS MP101 MECHANICAL /PLUMBING PLANS AND DETAILS

ELECTRICAL

ELECTRICAL SYMBOLS AND SPECIFICATIONS E001

ELECTRICAL PLAN AND SCHEDULES E101

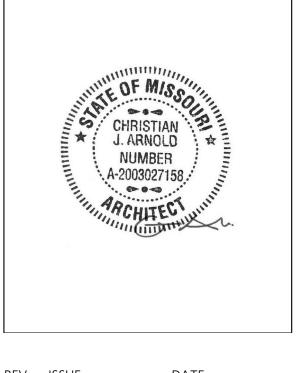
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RELEASED FOR CONSTRUCTION As Noted on Plans Review

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423 DELAWARE, STE 102 KANSAS CITY, MISSOURI 64105

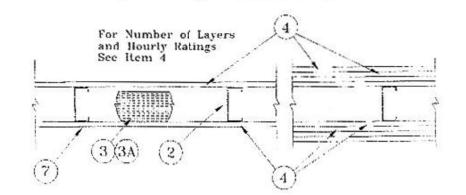
www.clockwork-ad.com



REV ISSUE Permit Review Revision 1

TITLE SHEET

DATE 02.02.2022 02.16.2022



- 1. Floor and Ceiling Runners (Not shown) Channel shaped, fabricated from min 25 MSG (min 20 MSG when Item 4A is used) corrosionprotected steel, min width to accommodate stud size, with min 1 in.
- long legs, attached to floor and ceiling with fasteners 24 in. OC max. 2. Steel Studs -- Channel shaped, fabricated from min 25 MSG (min 20 MSG when Item 4A is used) corrosion-protected steel, min width as indicated under Item 4, min 1-1/4 in. flanges and 1/4 in. return, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly
- 3. Batts and Blankets* (Required as indicated under Item 4) Mineral wool batts, friction fitted between studs and runners. Min nom thickness as indicated under Item 4. See Batts and Blankets (BKNV or BZJZ) Categories for names of Classified companies.
- 3A. Batts and Blankets* (Optional) Placed in stud cavities, any glass fiber or mineral wool insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance. See Batts and Blankets (BKNV or BZJZ) Categories for names of Classified com-
- 4. Gypsum Board* Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. The thickness and number of layers for the 1 hr, 2 hr, 3 hr and 4 hr ratings are as follows: Wallhoard Protection on Each Side of Wal

	Wallboard Protection on H	Each Side of Wall	
Rating	Min Stud Depth	No. of Layers & Thkns of Panel	Min Thkns of Insulation (Item 3)
1	3-1/2	1 layer, 5/8 in. thick	Optional
1	2-1/2	1 layer, 1/2 in. thick	1-1/2 in.
1	1-5/8	1 layer, 3/4 in. thick	Optional
2	1-5/8	2 layers, 1/2 in. thick	Optional
2	1-5/8	2 layers, 5/8 in. thick	Optional
2	3-1/2	1 layer, 3/4 in. thick	3 in.
3	1-5/8	3 layers, 1/2 in. thick	Optional
3	1-5/8	2 layers, 3/4 in. thick	Optional
3	1-5/8	3 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 1/2 in. thick	Optional
4	2-1/2	2 layers, 3/4 in. thick	2 in.

CANADIAN GYPSUM COMPANY -1/2 in. thick Type C, IP-X2 or IPC-AR; WRC, 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRX or WRC; 3/4 in. thick Type IP-X3, ULTRACODE, ULTRACODE SHC or ULTRACODE

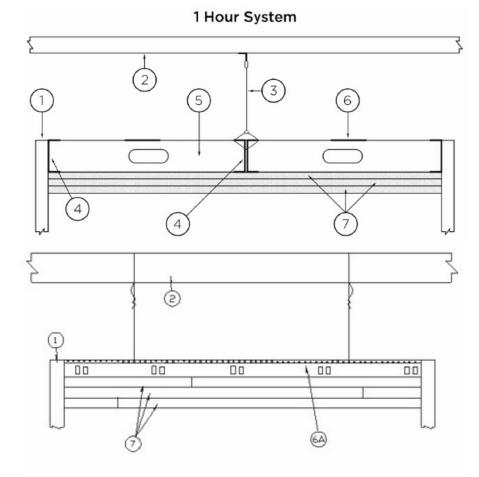
- UNITED STATES GYPSUM CO -1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type SCX, SHX, WRX, IP-X1, AR, C, WRC, FRX-G, IP-AR, IP-X2, IPC-AR; 3/4 in. thick Type IP-X3, ULTRACODE, ULTRACODE SHC or ULTRACODE
- USG MEXICO S A DE C V -1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2,
- IPC-AR, SCX, SHX, WRX, WRC or; 3/4 in. thick Type IP-X3, ULTRACODE, ULTRACODE SHC or ULTRACODE WRC. 4A. Gypsum Board* - (As an alternate to Item 4) - 5/8 in. thick gypsum
- panels, installed as described in Item 4 with Type S-12 steel screws. The length and spacing of the screws as specified under Item 5. CANADIAN GYPSUM COMPANY -Type FRX
- UNITED STATES GYPSUM CO-Type FRX

WRC

- 4B. Gypsum Board* (As an alternate to Items 4 and 4A) 5/8 in. thick, 2 ft. wide, tongue and groove edge, applied horizontally as the outer layer to one side of the assembly. Secured as described in Item 5. Joint covering (Item 7) not required.
 - CANADIAN GYPSUM COMPANY Type SHX. UNITED STATES GYPSUM CO - Type SHX.
 - USG MEXICO S A DE C V Type SHX.
- 5. Fasteners (Not shown) Type S or S-12 steel screws used to attach panels to studs (Item 2) or furring channels (Item 6). Single layer systems: 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 8 in. OC when panels are applied horizontally, or 8 in. OC along vertical and bottom edges and 12 in. OC in the field when panels are applied vertically. Two layer systems: First layer-1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels or 2-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC with screws offset 8 in. from first layer. Three-layer systems: First layer-1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in., 5/8 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below. Four-layer systems: First layer-1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer-2-1/4 in. long for 1/2 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 24 in. OC. Fourth layer- 2-5/8 in. long for 1/2 in. thick panels or 3 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below.
- 6. Furring Channels (Optional, not shown, for single or double layer systems) - Resilient furring channels fabricated from min 25 MSG corrosion-protected steel, spaced vertically a max of 24 in. OC. Flange portion attached to each intersecting stud with 1/2 in. long Type S-12 steel screws. Not for use with Item 4A.
- 7. Joint Tape and Compound Vinyl or casein, dry or premixed joint compound applied in two coats to joints and screw heads of outer layers. Paper tape, nom 2 in. wide, embedded in first layer of compound over all joints of outer layer panels. Paper tape and joint compound
- may be omitted when gypsum panels are supplied with a square edge. 8. Siding, Brick or Stucco (Optional, not shown) Aluminum, vinyl or steel siding, brick veneer or stucco, meeting the requirements of local code agencies, installed over gypsum panels. Brick veneer attached to studs with corrugated metal wall ties attached to each stud
- with steel screws, not more than each sixth course of brick. 9. Caulking and Sealants* - (Optional, not shown) - A bead of acous-
- tical sealant applied around the partition perimeter for sound control. UNITED STATES GYPSUM CO-Type AS *Bearing the UL Classification Mark

Design No. 1504 November 02, 2020

Ceiling Membrane Rating - 1 Hr. Load Restriction - Limited to the Dead Weight of the Assembly * Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively



Alternate System 1. Supporting Structure #1 — Fire-resistance rated. Suitable point of attachment of C-Channels (Item 4).

2. Supporting Structure #2 — If necessary - Suitable point of attachment of hanger wire (Item 3).

3. Hanger Wire — If necessary - Min. 8 gauge steel wire, hung from holes punched in C-Channel (Item 4). Hanger wire spaced nominally 24 in. OC.

4. C-Channels — Used to support steel studs at both ends. Min. 3-5/8 in. deep with min. 1-1/4 in. legs and formed from min. No. 20 MSG galv. steel. Perimeter channels attached to a fire-resistance rated supporting structure (Item 1) with fasteners spaced not greater than 24 in. O.C. at both the top and bottom of the vertical leg. When used with Items 2 and 3, C-Channel secured back to back with 1/2 in. Type S screws spaced 24 in. OC along centerline of C-Channels. Where C-Channels form a butt joint, screws placed at both top and bottom of both sides of butt joint.

5. Steel Studs — Min. 3-5/8 in. wide with min. 1-5/8 in. legs containing folded back flanges and formed from min. No. 20 MSG galv. Steel. Studs to be cut 3/8 in. to 5/8 in. less than the clear span between the vertical legs of the perimeter channels. Studs spaced a max. 16 in. OC. At each end of the stud, the top and bottom legs shall be secured to the perimeter channel with one 3/8 in. long pan-head steel screw. Studs are used at each end of the horizontal barrier to terminate the assembly at the adjoining wall. These end studs shall be secured to the adjoining wall in the same manner as the perimeter channels (Item 4). Maximum unsupported length of studs not to exceed 8 ft. 1 in.

6. Steel Strap — Min 4 in. wide formed from min. No. 20 MSG galv. Steel. Secured perpendicular to the studs at the centerline of the span using one 3/8 in. long pan-head steel screw. Strips to overlap one full stud bay at splice locations. As an alternate to the steel strap, C-Channels (Item 4) may be substituted and installed in the same manner as the steel straps. If a continuous piece is not used, abut channels on each side of the centerline of the span and overlap one full stud bay. 6A. Framing Members^{*} — As an alternate to items 3, 4, 5, and 6 - Main runners, cross tees, cross channels and wall angle as listed

below: a. Main Runners — Nom 10 or 12 ft long , 15/16 in. or 1-1/2 in. wide face, spaced 4 ft OC. Main runners suspended by min 12

> SWG galv steel hanger wires spaced 24 in. OC, twist tied to supporting structure.

b. Cross Tees — Nom 4 ft long, 1-1/2 in. wide face, installed perpendicular to the main runners, spaced 16 in. OC. The cross tees or cross channels may be riveted or screw attached to the wall angle or channel to facilitate the ceiling installation. c. Cross Channels — Nom 4 ft long, installed perpendicular to

main runners, spaced 16 in. OC. d. Wall Angle or Channel — — Painted or galv steel angle with 1 in. legs or channel with 1 in. legs, 1-9/16 in. deep attached to walls at perimeter of ceiling with fasteners 16 in. OC. To support steel framing member ends and for screw-attachment

of the gypsum panel. ARMSTRONG WORLD INDUSTRIES INC - Type DFR-8000.

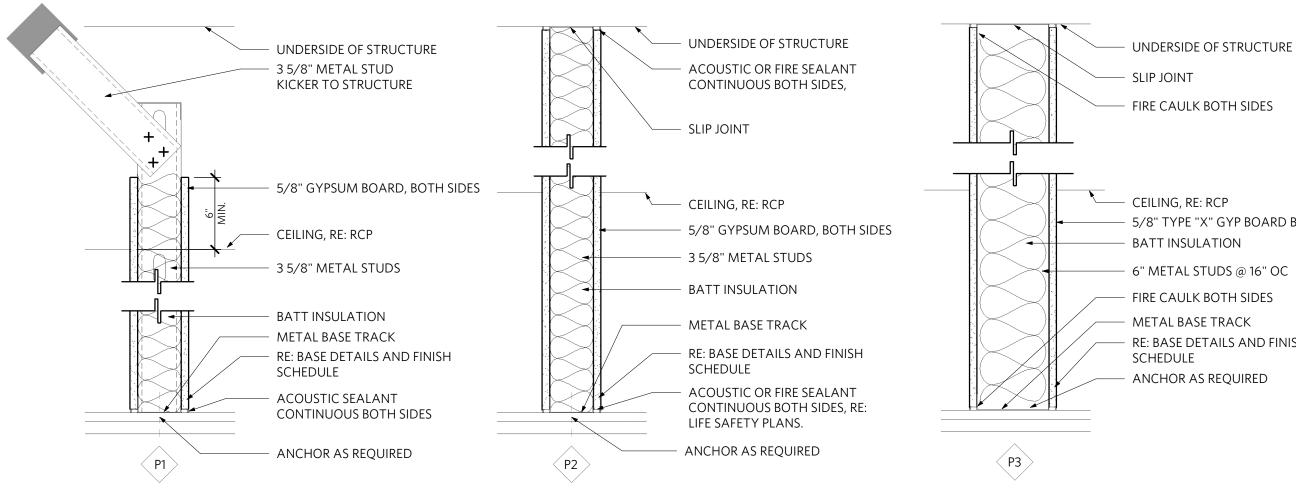
7. Gypsum Board^{*} — Three layers of nom. 5/8 in. thick gypsum board installed with long dimension perpendicular to the steel studs or Framing Members*. Base secured to studs and perimeter channels with 1 in. long Type S steel screws spaced max. 16 in. OC. Middle layer secured to the studs or Framing Members* and perimeter supports with 1-5/8 in. long Type S steel screws spaced max. 16 in. OC. Middle layer edge and end joints staggered a min. 16 in. from base layer joints. Face layer secured to the studs or Framing Members* and perimeter supports with 2-1/4 in. long Type S steel screws spaced max. 12 in. OC. Face layer edge and end joints staggered a min. 16 in. from middle layer joints. NATIONAL GYPSUM CO — Type FSW

8. Joint Tape and Compound — Not Shown — (Optional, Not Required On Joints or Screw Heads) — Vinyl, dry or premixed joint compound, applied in two coats to joints and screw heads; paper tape, nom. 2 in. wide, embedded in first layer of compound over all joints.

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WALL TYPES

- GYP. BD. TO BE HELD OFF FINISH FLOOR 1/2" MIN. TYPICAL.
- METAL CORNER BEAD TO BE USED ON ALL OUTSIDE CORNERS OR TOP OF PARTIAL HEIGHT WALLS WHERE GYP. BD. WRAPS.
- ALL BLOCKING SHALL SPAN FULLY BETWEEN BOTH ADJACENT STUDS AT A MINIMUM.
- ALL WALLS TO BE LEVEL 4 FINISH, U.N.O. WALLS TO RECEIVE VINYL GRAPHICS TO BE LEVEL 5 FINISH.
- PROVIDE ACOUSTICAL BATT INSULATION AT ALL RESTROOM WALLS AND ABOVE ALL RESTROOM CEILINGS
- PROVIDE MOISTURE RESISTANT GYP. BD. OR DUROCK IN ALL WET LOCATIONS (I. E. RESTROOMS)



WALLS 6" ABOVE CEILING

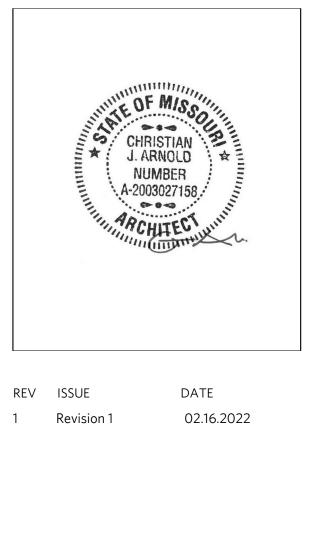
WALLS TO DECK

WALLS TO DECK UL DESIGN:U419 **1 HOUR RATING**



423 DELAWARE, STE 102 KANSAS CITY, MISSOURI 64105 www.clockwork-ad.com

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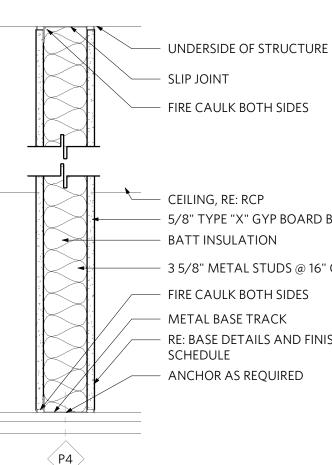
 \sim WALL TYPES AND **UL LISTINGS**

SLIP JOINT FIRE CAULK BOTH SIDES

- CEILING, RE: RCP 5/8" TYPE "X" GYP BOARD BOTH SIDES BATT INSULATION 6" METAL STUDS @ 16" OC

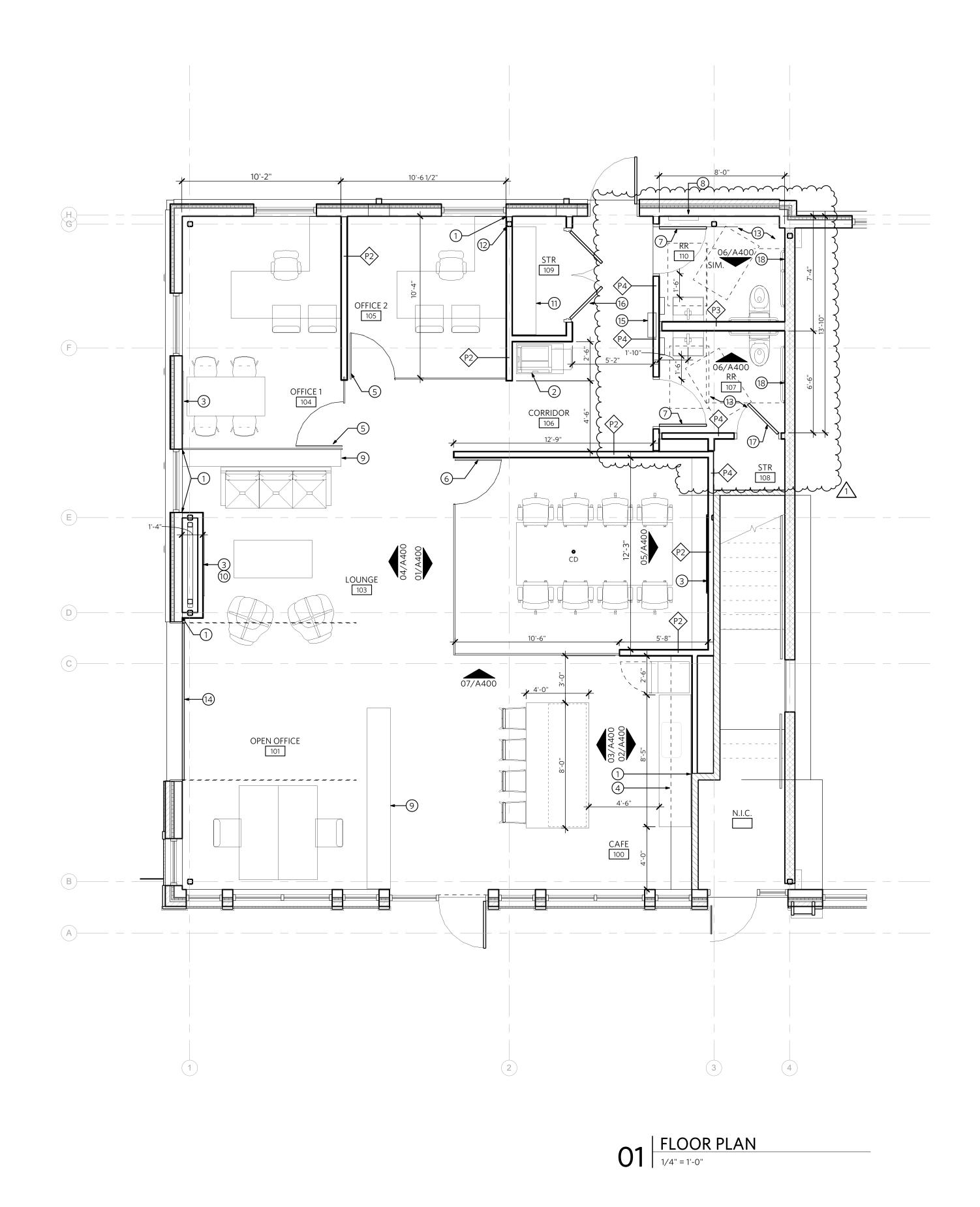
FIRE CAULK BOTH SIDES METAL BASE TRACK RE: BASE DETAILS AND FINISH SCHEDULE

ANCHOR AS REQUIRED



CEILING, RE: RCP - 5/8" TYPE "X" GYP BOARD BOTH SIDES - BATT INSULATION - 3 5/8" METAL STUDS @ 16" OC - FIRE CAULK BOTH SIDES - METAL BASE TRACK - RE: BASE DETAILS AND FINISH SCHEDULE

WALLS TO DECK UL DESIGN:U419 **1 HOUR RATING**



GENERAL FLOOR PLAN NOTES

- ALL DIMENSIONS TO EXISTING ITEMS ARE + / -DIMENSIONS FOR INTERIOR PARTITIONS ARE TO OUTSIDE FACE OF WALL FINISH.
- ALL PARTITIONS TO BE TYPE P1 UNLESS NOTED OTHERWISE.
- CONTRACTOR TO REFER TO MEP DRAWINGS FOR ALL MEP REQUIREMENTS. CONTRACTOR TO COORDINATE IT/AV/SECURITY SYSTEM WITH TENANTS VENDOR. PROVIDE CONDUIT AND PULL STRING FOR IT/AV/SECURITY WORK. COORDINATE WITH ELECTRICAL & IT/AV/SECURITY.
- CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND PROVIDING ALL BLOCKING AS REQUIRED FOR CASEWORK, LIGHT FIXTURES, ACCESSORIES, ETC.
- CONTRACTOR TO COORDINATE TENANT PROVIDED LCD & MOUNT LOCATIONS. PROVIDE POWER, CABLE AND BLOCKING AS REQUIRED.
- CONTRACTOR SHALL COORDINATE ALL CORE DRILL LOCATIONS WITH FURNITURE LAYOUT. REFER TO ELECTRICAL FOR PROPOSED CORE DRILL LOCATIONS. ALL CARD READERS, SWITCHES, CONTROLS, ETC TO COMPLY WITH A.B.A.A.S. (ARCHITECTURAL BARRIERS ACT ACCESSIBILITY STANDARD) REQUIREMENTS FOR MOUNTING HEIGHTS.
- CONTRACTOR TO ENSURE PROJECT SITE IS SECURE WHEN NOT PRESENT. 10. CONTRACTOR TO ENSURE THAT LOUD OR DISRUPTIVE (SMELLY) WORK SHALL BE 11 DONE AFTER BUSINESS HOURS. COORDINATE WITH LANDLORD AND TENANT. ALL APPLIANCES SHALL BE TENANT PROVIDED AND INSTALLED, U.N.O. 12.
- FURNITURE BY OTHERS. COORDINATE W/ OWNER. 13. COORDINATE ALL FRAMING DIMENSIONS AT RECESSED TV LOCATIONS WITH 14 TENANT AV VENDOR.

FLOOR PLAN KEYNOTES

ALIGN FINISHED FACE.

11

- NETWORK PRINTER/COPY LOCATION. PROVIDE DEDICATED POWER & DATA AS REQ'D. REFER TO MEP.
- WALL MOUNTED TV ON BRACKET, TENANT PROVIDED AND INSTALLED. PROVIDE 3/4" FIRE RETARDANT PLYWOOD BLOCKING IN WALL. PROVIDE POWER / DATA / CABLE PER MEP. PROVIDE POWER AND PLUMBING SUPPLY & WASTE LINES FOR KITCHEN EQUIPMENT AS 4
- INDICATED ON ELEVATIONS. 1/2" FRAMELESS TEMPERED SWING GLASS DOOR AND 1/2" FRAMELESS TEMPERED GLASS
- PANELS SET IN 11/2" TOP CHANNEL AND 1" BOTTOM CHANNEL IN MATTE BLACK. PROVIDE MINIMUM NUMBER OF PANELS POSSIBLE. HEIGHT SHALL BE 9'-0"H. 1/2" FRAMELESS TEMPERED SWING GLASS DOOR AND 1/2" FRAMELESS TEMPERED GLASS
- PANELS SET IN 1 1/2" TOP CHANNEL AND 1" BOTTOM CHANNEL IN MATTE BLACK. WEST SIDE OF GLASS TO HAVE A 3M WHITE FILM APPROX 5'X10' 80% OPACITY APPLIED ON CONFRENCE ROOM SIDE OF GLASS. PROVIDE MINIMUM NUMBER OF PANELS POSSIBLE. HEIGHT SHALL BE MARCHELEVANIONS MARCHANNE
- 3'0" x 8'0" 60MIN DOOR WITH CLOSER AND SMOKE GASKET. DOOR TO BE WHITE OAK IN HOLLOW METAL FRAME. METAL FRAME TO BE PAINTED TO MATCH ADJACENT WALL PAINT. DOOR TO BE STAINED TO MATCH PL1. PRIVACY LEVER LATCH SET WITH PUSH LOCK. MATTE
- **EXISTING ELECTRICAL PAN** PLANTER BY OWNER 10
- NAPOLEON ALLURAVISION SLIMLINE 42" ELECTRIC FIREPLACE RECESSED INTO WALL. RE MEP. 5 WOOD FLOATING SHELVES AT 18" DEEP. CONFIRM WITH OWNER ON MOUNTING HEIGHTS. 12 ENSURE COLUMN IS NOT PROTRUDING INTO OFFICE.
- GC PROVIDED/INSTALLED RESTROOM ACCESSORIES. PROVIDE BLOCKING IN WALL 13 ADEQUATE TO SUPPORT SINK ASSEMBLY AND ADA GRAB BARS. SEE LIST BELOW AND MEP. 14 EXISTING GARAGE DOOR.
- 15 SEMI RECESSED WALL MOUNTED FIRE EXTINGUISHER.

DOUBLE DOOR 3'0" x 8'0" WHITE OAK DOOR IN HOLLOW METAL FRAME. METAL FRAME TO BE PAINTED TO MATCH ADJACENT WALL PAINT. DOOR TO BE STAINED TO MATCH PL1. ᡔ᠆᠆᠆᠆᠆ᢞᠯᢌ᠋᠋᠋ᡷᢌ᠋ᠫᡋᡄ᠋᠋᠋ᢄᡛᢦᢄᡛᡕ᠘ᡯᡗᡄᠯᡰᡪᢒᢄᠮᡳᠰᡏᠯᢋᡏᠯᡏᡛᢧ᠍᠋᠋ᡛ᠘ᢓᠺᠺᠮᡁᡰᡟ᠋ᡗᢣᡰᡗ᠃᠆᠆᠆᠆᠆᠆᠆᠆᠆᠆᠆᠆᠆᠆ 17 2'6" x 7'0" 60MIN DOOR WITH CLOSER AND SMOKE GASKET, DOOR TO BE WHITE OAK IN

HOLLOW METAL FRAME. METAL FRAME TO BE PAINTED TO MATCH ADJACENT WALL PAINT. DOOR TO BE STAINED TO MATCH PL1. PASSAGE LEVER LATCH SET. MATTE BLACK FINISH CMU WALL WITH 7/8" FURR OUT HAT & GYP BD IN FRONT OF CHANNEL. PREP WALL FOI SCEDULED FINISHES.

RESTROOM SINK:

NAMEEK'S - SHARP, CERA STYLE 037100-U WALL MOUNTED SINGLE HOLE, WHITE FINISH

RESTROOM FAUCET: MOEN RINZA, SINGLE- HANDLE LAVATORY FAUCET. MODEL 84627 SERIES. **BLACK FINISH**

<u>TOILET PAPER HOLDER:</u> DELTA - TRINSIC SINGLE POST TOILET PAPER HOLDER IN MATTE BLACK. MODEL#: 75950-BL

PAPER TOWEL DISPENSER:

TOTAL RESTROOM - ASI 0210-41 TRADITIONAL - PAPER TOWEL DISPENSER -MULTI, C-FOLD - SURFACE MOUNTED - BLACK

GRAB BARS:

ADA WALL MOUNTED GRAB BARS: KOHLER KUMIN MATTE BLACK SERIES OR APPROVED EQ.

VANITY MIRROR:

POTTERY BARN - MORITZ ROUND MIRROR, BLACK, 36"

<u>CAFE SINK:</u> MOEN - 1800 SERIES STAINLESS STEEL 31" X 18" 18 GAUGE SINGLE BOWL SINK CENTER DRAIN. UNDERMOUNT

<u>CAFE FAUCET:</u> KOHLER CRUE PULL-DOWN SINGLE-HANDLE KITCHEN SINK FAUCET, MATTE BLACK, K-22972-BL

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RELEASED FOR CONSTRUCTION As Noted on Plans Review

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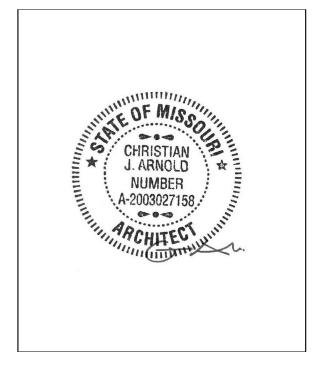
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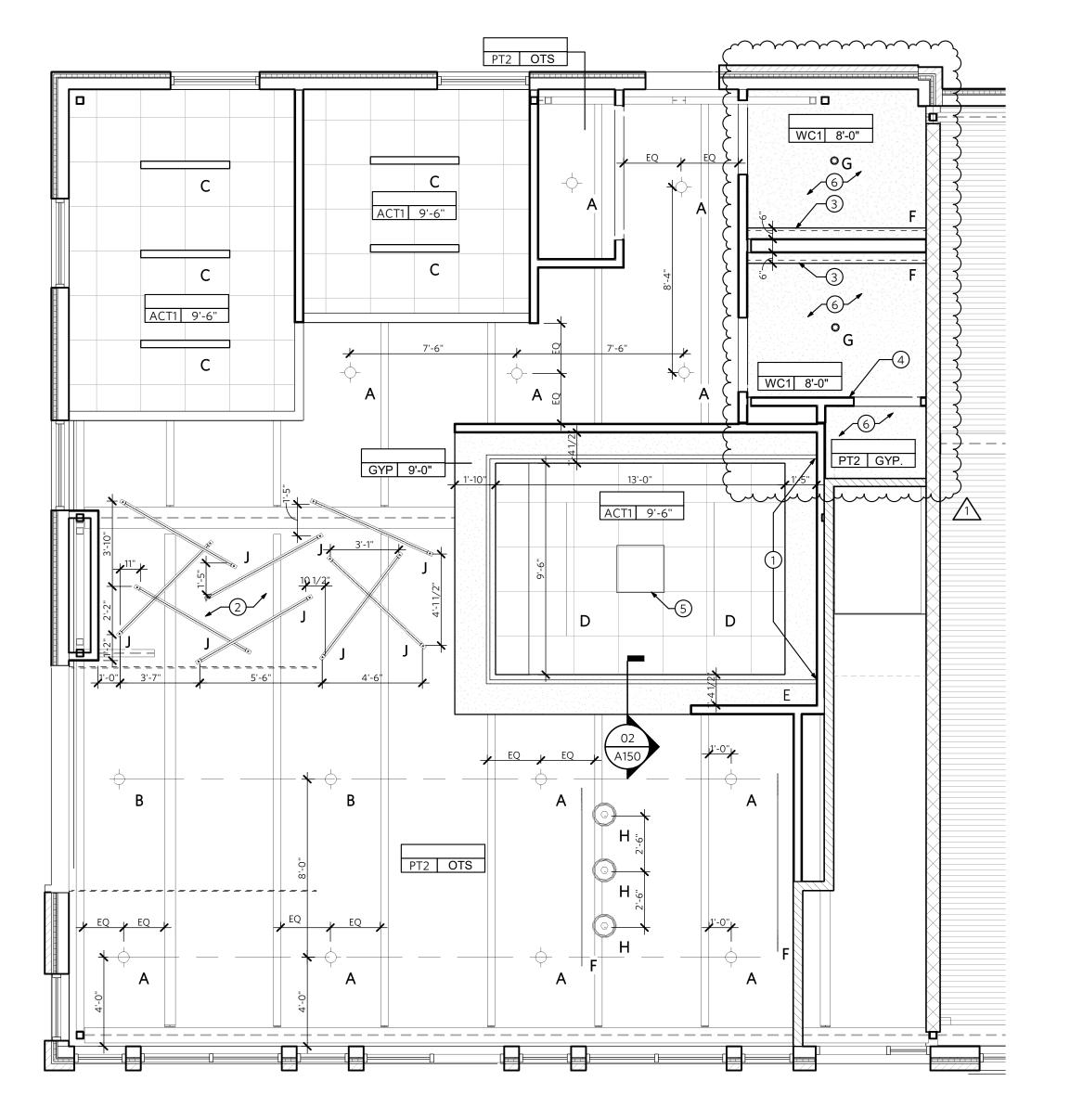
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Revision 1

FLOOR PLAN

A100

DATE 02.02.2022 02.16.2022



01 REFLECTED CEILING PLAN



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GENERAL CEILING PLAN NOTES

- 1. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS AND REPORT BACK TO ARCHITECT ANY CONFLICTS THAT MAY AFFECT DESIGN INTENTIONS
- SHOWN ON PROJECT DOCUMENTS. REFER TO MEP DRAWINGS FOR ALL EMERGENCY AND EXIT LIGHTING
- 2. REQUIREMENTS.
- CONCEAL ALL CONDUIT TO LIGHT FIXTURES, EXIT DEVICES AND EMERGENCY 3. LIGHTING IN WALL OR IN HARD PIPE CONDUIT.
- CEILINGS TO (PT2) UNLESS NOTED OTHERWISE. 4.
- PROVIDE ACOUSTICAL BATT INSULATION ABOVE ALL OFFICES AND MEETING ROOM CEILINGS PER WALL TYPES ON SHEET A000. ALL WIRING AND CABLING TO BE IN HARD PIPE CONDUIT IN AREAS EXPOSED
- TO STRUCTURE, MC CABLING NOT ACCEPTABLE. ALL NEW GYP. CEILINGS TO BE PAINTED (PT2) UNLESS NOTED OTHERWISE. ALL EXPOSED TO STRUCTURE CEILINGS TO BE PAINTED (PT2) UNLESS NOTED 8.
- OTHERWISE. CENTER LIGHTS WITHIN SOFFIT U.N.O 9 COORDINATE MOUNTING HEIGHTS OF ALL PENDANT LIGHTS IN FIELD WITH 10.
- ARCHITECT U.N.O.
- PROVIDE NEW CLEAR, EDGE LIT EXIT SIGNS U.N.O. REFER TO ELECTRICAL 11. DRAWINGS FOR SPECIFICATION
- HEADERS AND SOFFITS TO EXTEND TO DECK @ ALL AREAS WITHOUT CEILINGS. 13.

REFLECTED CEILING PLAN KEYNOTES

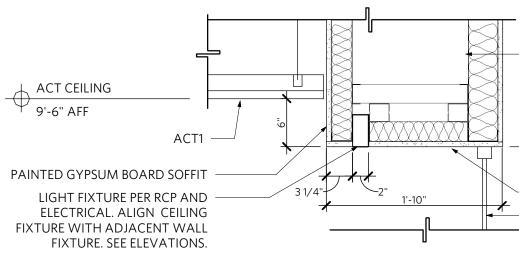
1	FIXTURE E TO TO RUN DOWN THE WALL. RE ELVATIONS.
2	FIXTURE J TO BE HUNG IN FIELD WITH ARCHITECT. FIXTURE IS TO BE HUNG AT ANGELS. TPY.
$ \begin{array}{c} & & & \\ & & & & \\ & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & $	RECESSED COVE LIGHT. RE MEP. GC TO ENSURE EXISTING STAIR ABOVE IS NOT PROTRUDING INTO RESTROOM CEILING/WALL. CEILING IS TO BE HELD TIGHT TO UNDERSIDE OF STAIR. HVAC, RE: MEP CEILING AND SOFFIT TO BE 1 HOUR RATED PER UL LISTING 1504. RE A001.

LIGHT FIXTURE SCHEDULE

TAG

FIXTURE DESCRIPTION

- A 6" LED CYLINDER PENDANT, WHITE FINISH
- B 6" LED CYLINDER FLUSH MOUNT, WHITE FINISH
- C FOCAL POINT SEEM 4-LP LED RECCESSED 48" OR APPROVED EQ. D FOCAL POINT SEEM 4-LP LED RECCESSED 72" OR APPROVED EQ.
- F TAPE LIGHT DIODE LED DI-12V-BLSC2-30-016-IES W/ DIMMING POWER SUPPLY, PROVIDE INSTALLATION CHANNEL OR APPROVED EQ.
- G 4" LED CAN LIGHT, WHITE
- H MUUTO, UNFOLD PENDANT LAMP, WHITE J SONNEMAN LIGHITNG - THIN-LINE LED PENDANT LIGHT, 6' SATIN BLACK, ONE SIDED

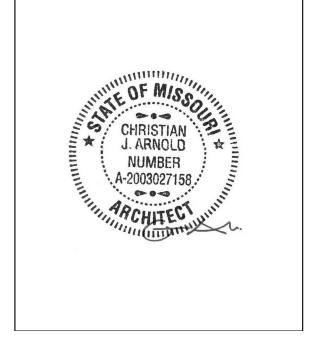


02 CEILING DETAIL

- PAINTED GYPSUM BOARD SOFFIT

GYP. SOFFIT, PAINTED 9'-0" AFF - PAINTED GYPSUM BOARD SOFFIT - GLASS SYSTEM. SEE FLOOR PLAN.

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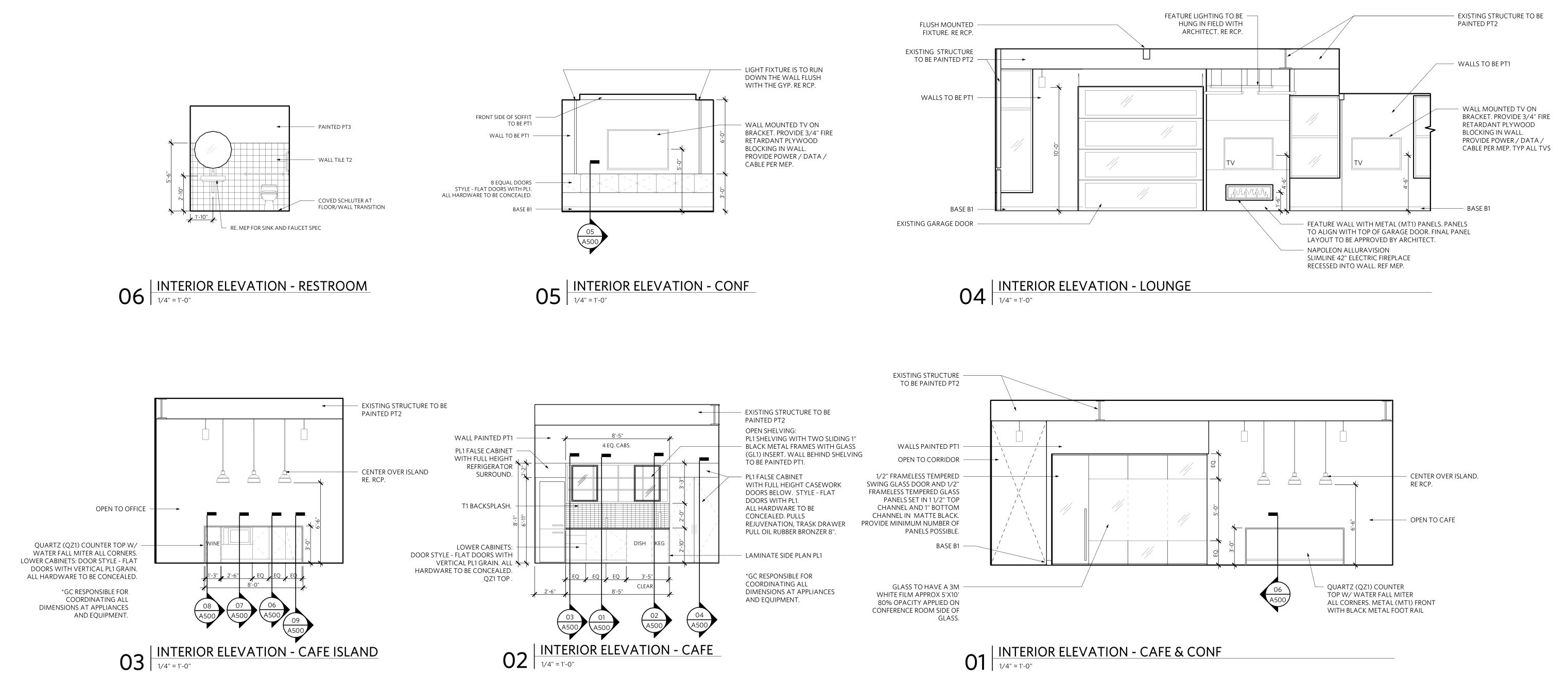
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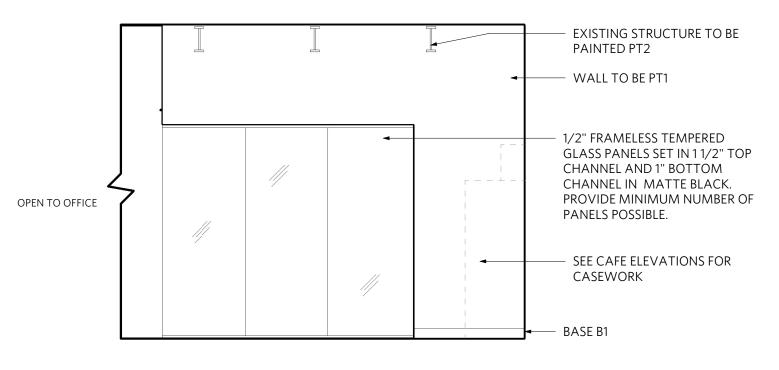
Revision 1

DATE 02.02.2022 02.16.2022

REFLECTED CEILING PLAN & DETAILS

A150



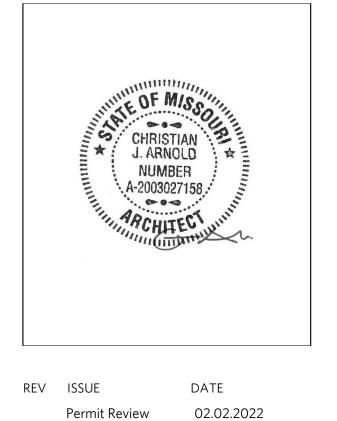


07 INTERIOR ELEVATION -CONF GLASS

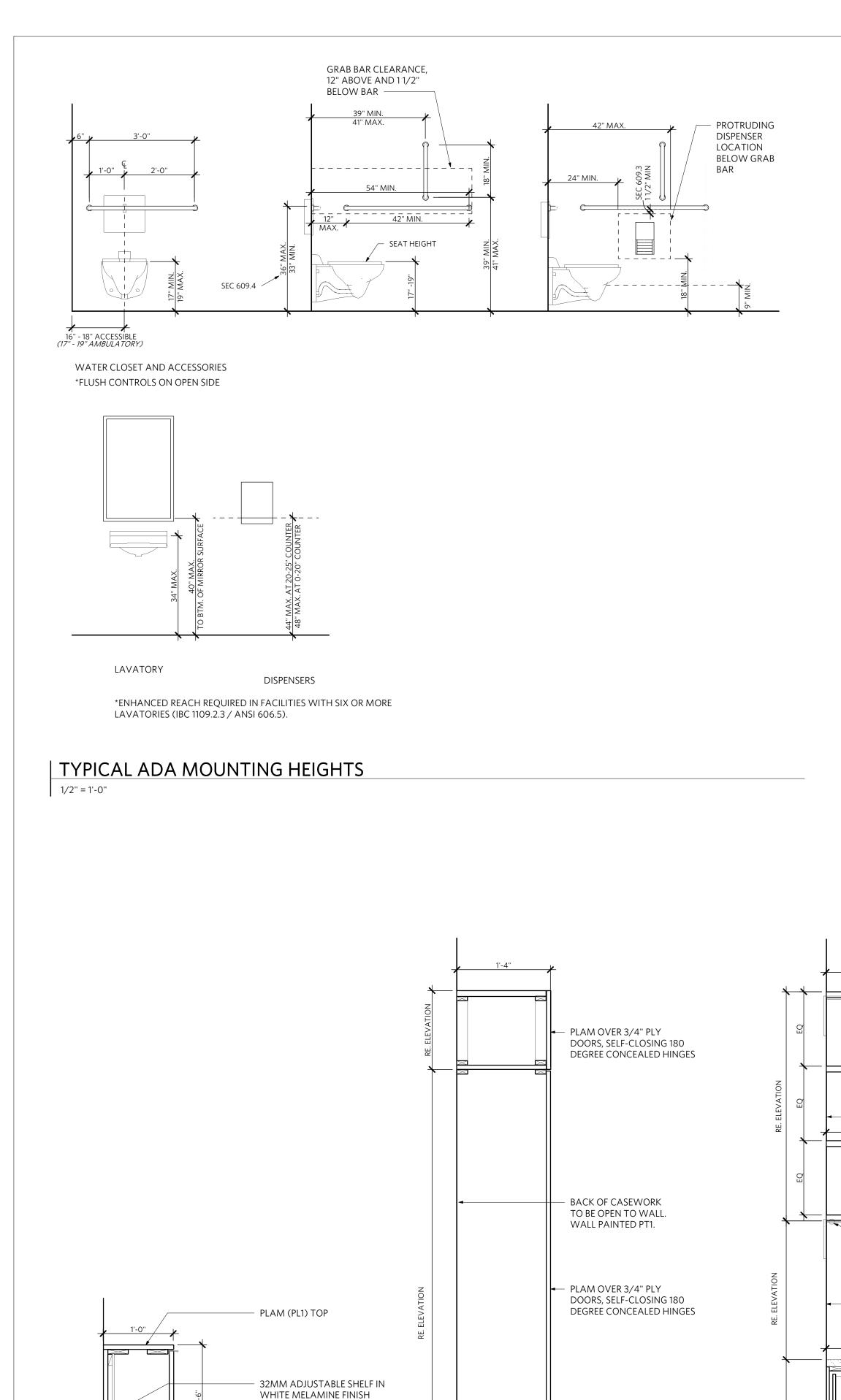


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INTERIOR ELEVATIONS



PLAM OVER 3/4" PLY

- BASE (B1)

CREDENZA SECTION

DOORS, SELF-CLOSING 180

DEGREE CONCEALED HINGES



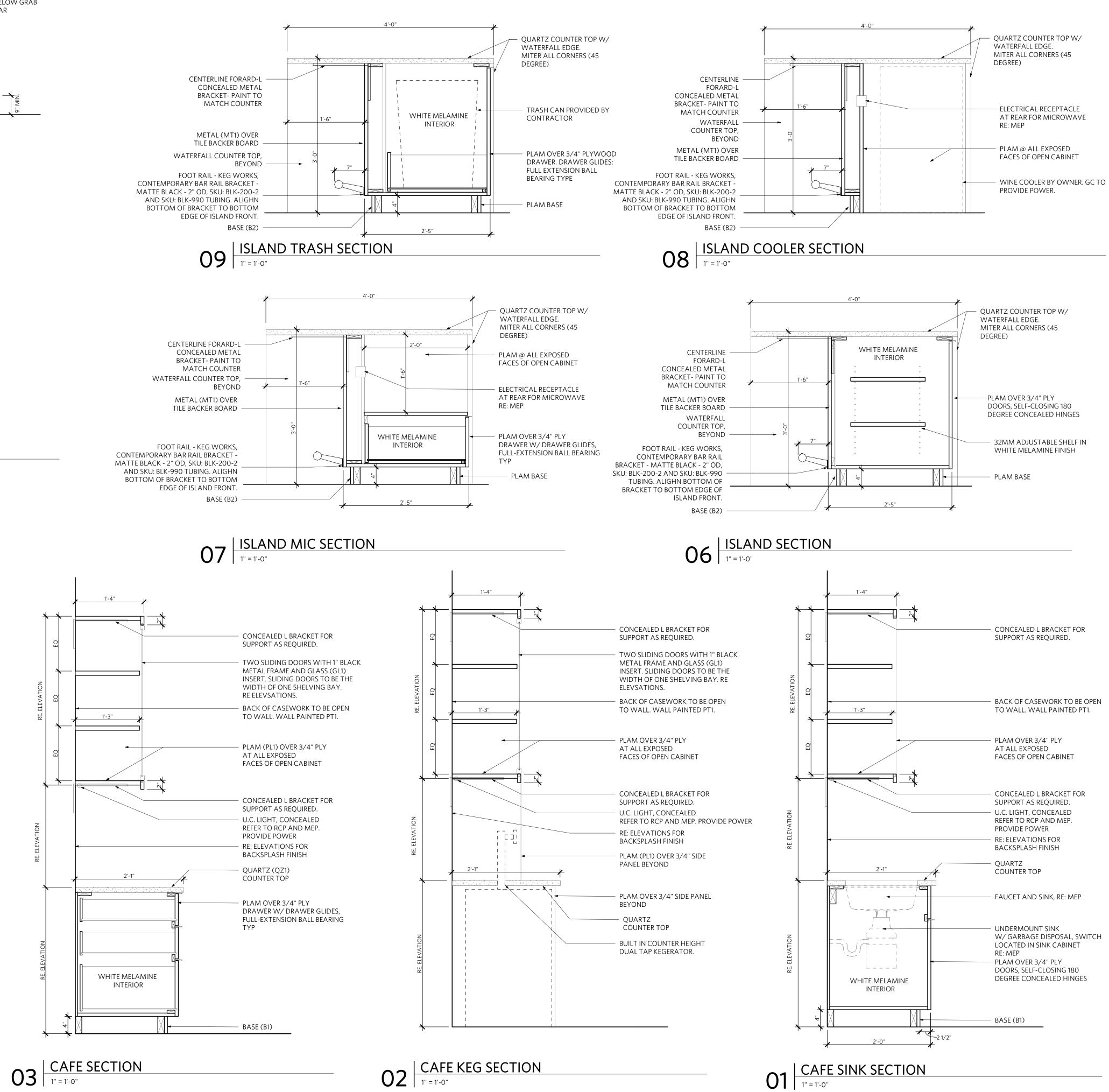
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1" = 1'-0'



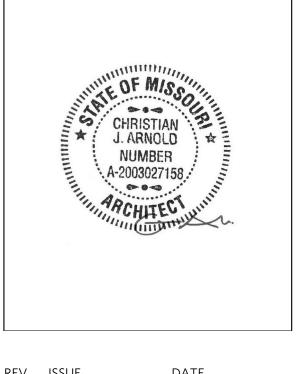






ALL HARDWARE PULLS TO BE MOCKETT DP3A - 3" TAB DRAWER PULL, MATTE BLACK 90, FLUSH MOUNT INSTALL. U.N.O. USE BALL-BEARING HINGES ON ALL DRAWERS USE SELF-CLOSING 180 DEGREE CONCEALED HINGES ON ALL CABINET DOORS.

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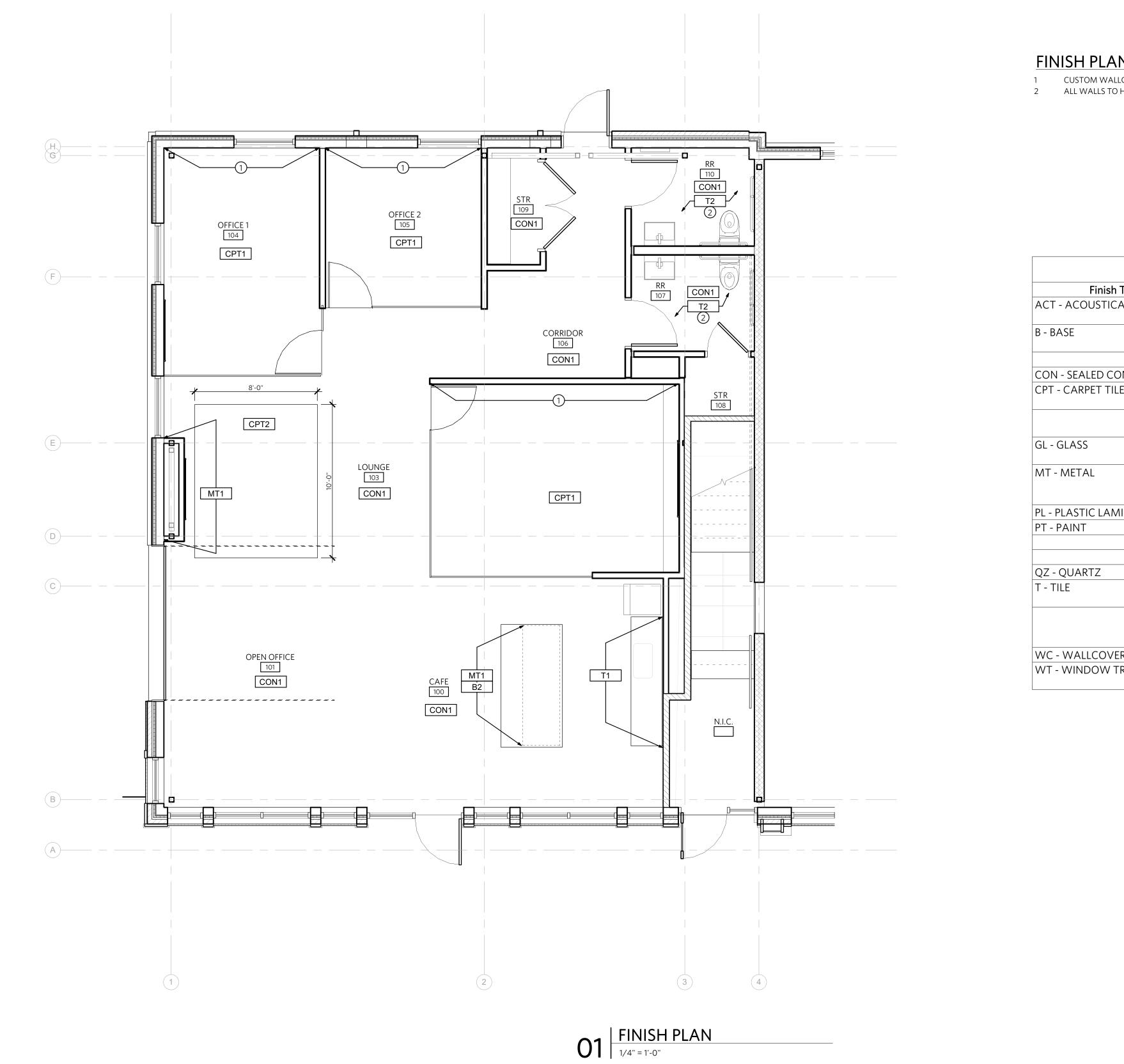
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INTERIOR DETAILS

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GENERAL FINISH PLAN NOTES

1.	ALL GYP BC
2.	ALL RECEPT
3.	CONTRACT
	SCHEDULE
4.	PAINT HM I
5.	ALL GYP W
	SHALL USE
6.	USE SCHLU
	ALL TRANS
	FLOORING
	JOLLY IN FI
7.	ALL PAINT
8.	SEMI-GLOS
9.	FLAT PAINT
10.	ALL CARPE

- BD WALLS SHALL BE PAINTED PT1, U.N.O. ON SCHEDULE.
- EPTACLES SHALL BE WHITE, U.N.O. CTOR TO PROVIDE 4'X4' PAINT SWATCH OF EACH COLOR
- ED FOR APPROVAL BY OWNER.
- M FRAMES TO MATCH ADJACENT WALLS (SEMI-GLOSS), U.N.O. VALLS TO BE PAINTED IN RESTROOMS OR OTHER WET LOCATIONS E EPOXY TYPE PAINT.
- UTER PROFILE 'SCHIENE' IN FINISH AE- ANODIZED ALUMINUM, AT SITIONS BETWEEN FLOORING MATERIALS AND AT EXPOSED
- G EDGES, U.N.O. AT EXPOSED WALL LOCATIONS USE SCHLUTER
- FINISH AE- ANODIZED ALUMINUM T TO BE EGGSHELL U.N.O.
- DSS PAINT ON WOOD AND METAL APPLICATIONS
- INT ON CEILINGS. PET TO BE INSTALLED PER SPECIFICATION.

FINISH PLAN KEYNOTES

1 CUSTOM WALLCOVERING PROVIDED BY OWNER. GC TO ENSURE LEVEL 5 WALL FINISH. 2 ALL WALLS TO HAVE TILE. RE ELEVATIONS FOR HEIGHTS.

FINISH LEGEND						
Finish Type	Finish Code	Description				
COUSTICAL CEILING TILE	ACT1	ARMSTRONG OPTIMA SQUARE EDGE TEGULAR 24" X 24" ON SUPRAFINE 9/16" GRID, COLOR: WHITE				
	B1	4" PAINT GRADE WOOD BASE, PAINT TO MATCH ADJACENT WALL.				
	B2	WOOD BASE PAINTED BLACK				
EALED CONCRETE	CON1	SEALED CONCRETE WITH CLEAR TOP COAT				
ARPET TILE	CPT1	SHAW CONTRACT - FLAT WEAVE TILE, 5T321, SILVER 01535, MONOLITHIC INSTALL				
	CPT2	FLOR - KNIT WIT, CHALK/SILVER 21-1528-01 - MONOLITHIC INSTALL				
SS	GL1	OMNI DECOR GLASS DESIGN, DECOROPAL COLOR COLLECTION, SLATE, ETCHED FINISH				
TAL	MT1	HOT ROLLED STEEL - SECURED WITH EXPOSED FASTENERS. COORDINATE WITH ARCHITECT ON EXACT FASTENERS PRIOR TO INSTALLATION.				
STIC LAMINATE	PL1	WILSONART - WHITE RIVER FOREST 8227K-79				
NT	PT1	SW7006 EXTRA WHITE (FIELD PAINT - EGGSHELL)				
	PT2	SW7006 EXTRA WHITE (CEILING PAINT FLAT)				
	PT3	SW6761 THERMAL SPRING				
ARTZ	QZ1	WILSONART - NORTH CASCADES Q4035				
	T1	NEMO TILE - STACKED COLOR WHITE, GLOSS FINISH - GROUT - MAPEI 103 COBBLESTONE				
	Τ2	VIRGINA TILE, WOW USE - DUO, TUEQUES 6X6-DUO, INSTALL STACK BOND RANDOM. GROUT - MAPEI 103 COBBLESTONE				
ALLCOVERING	WC1	KOROSEAL - TIMBERLINE MAPLE T12214				
NDOW TREATMENT	WT1	ROLLER SHADE, MECHO SOHO 1900 SERIES 5%, 1919 SILVER BIRCH, MANUAL				



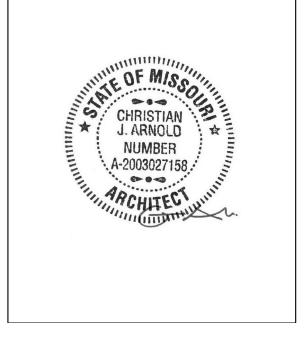
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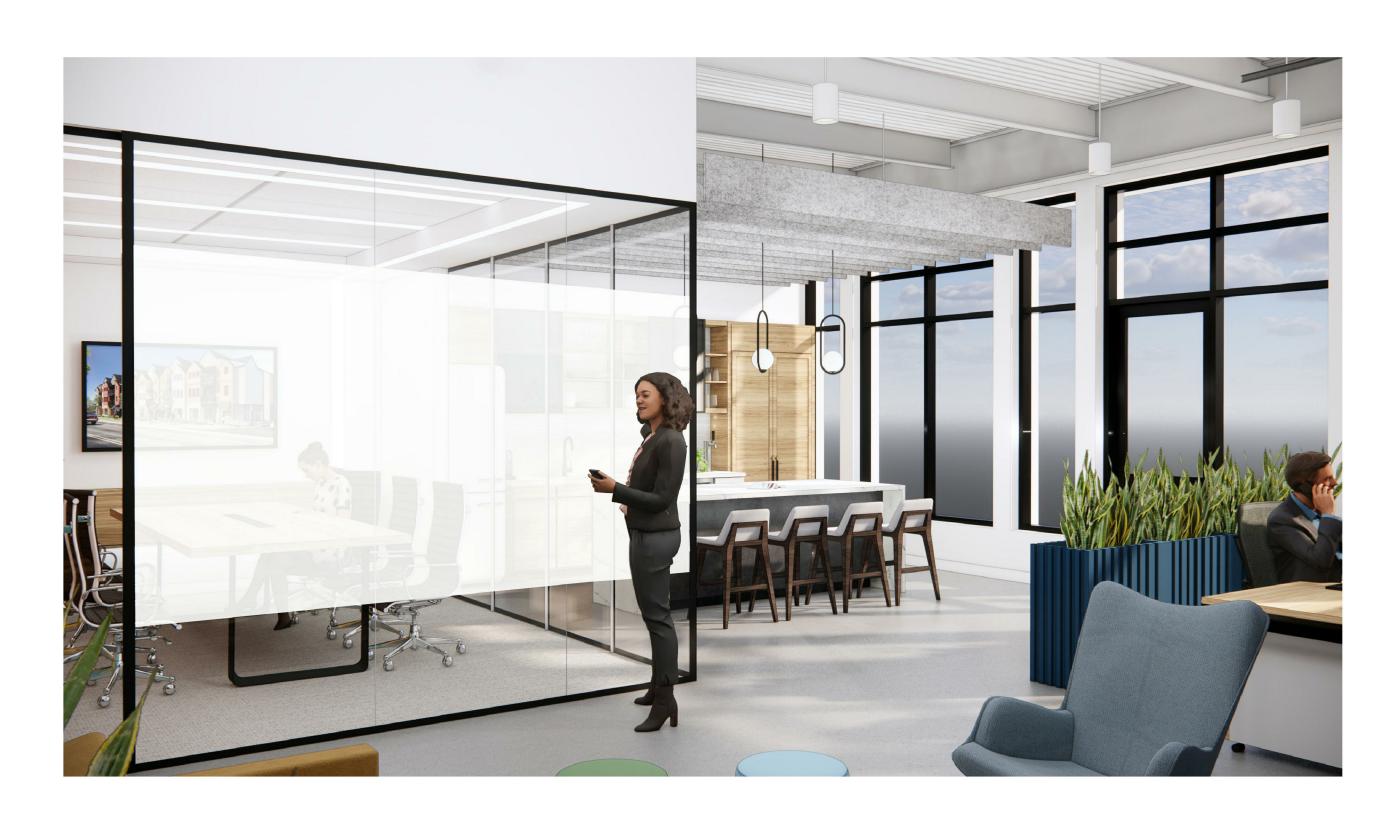
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FINISH PLAN & LEGEND

A600



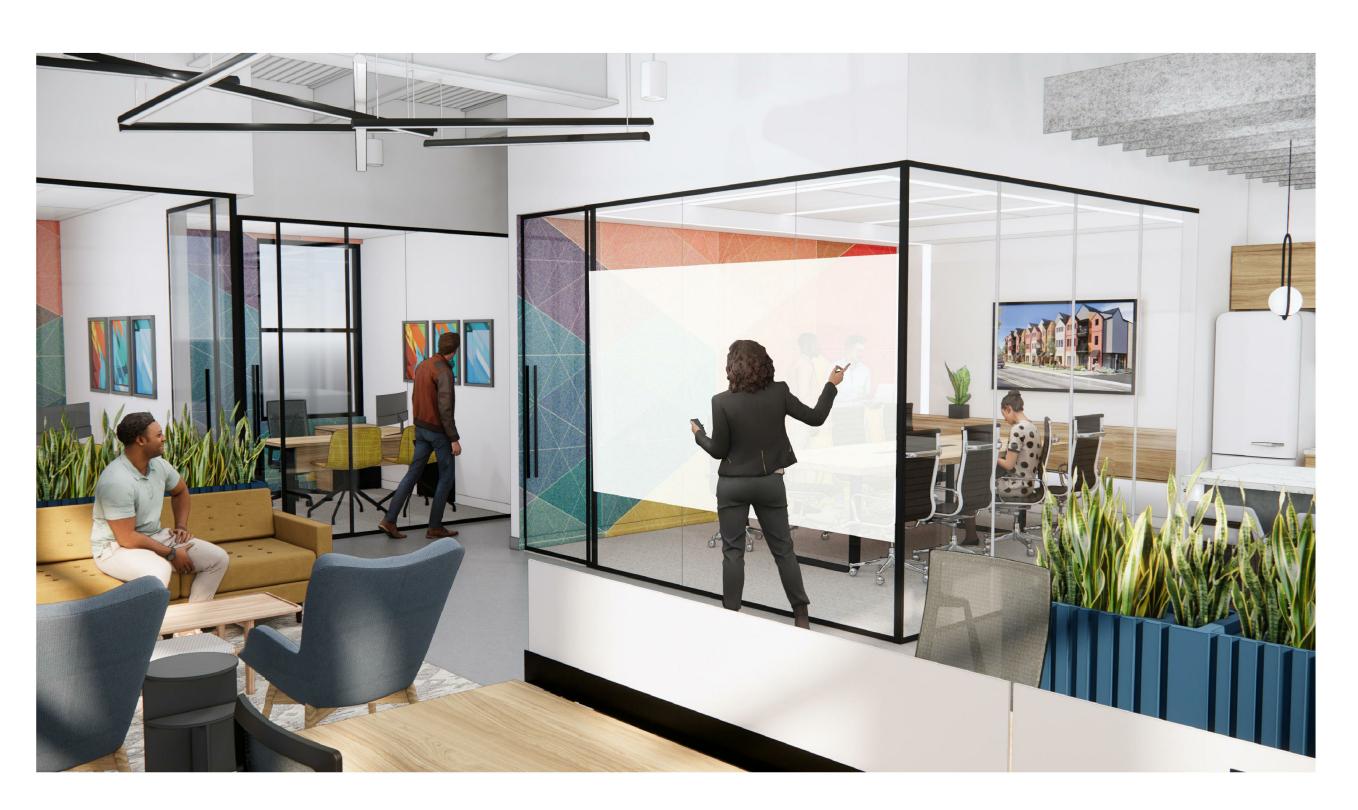
ENTRY RENDERING



CONFRENCE RENDERING



CAFE RENDERING



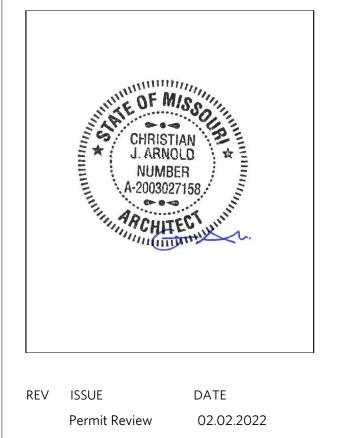
OFFICE RENDERING



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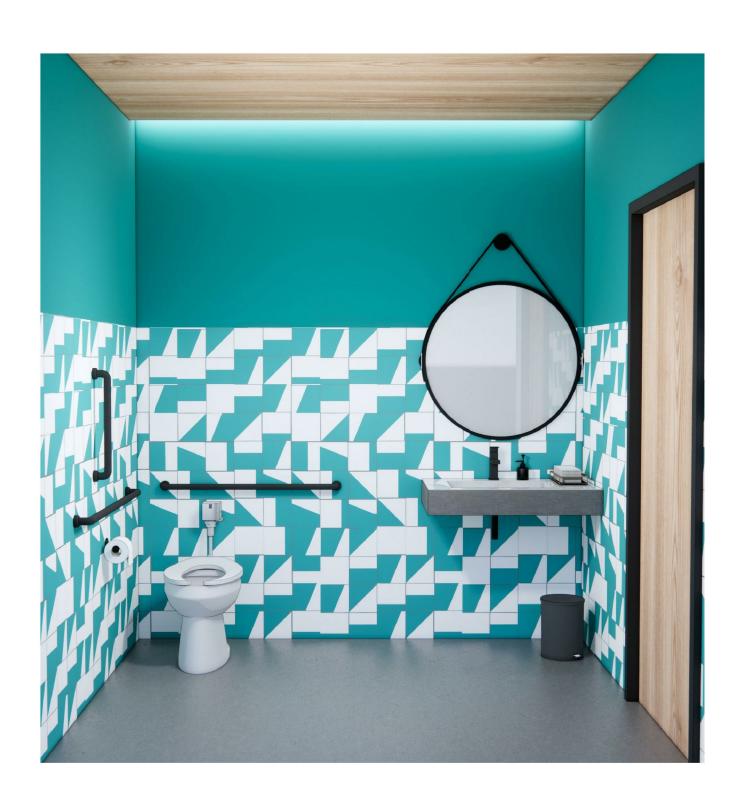
BOX REAL ESTATE DEVELOPMENT OFFICE A20 SW LONGVIEW BLVD SUITE 116 LEE'S SUMMIT, MO, 64081 LEE'S SUMMIT, MO, 64081



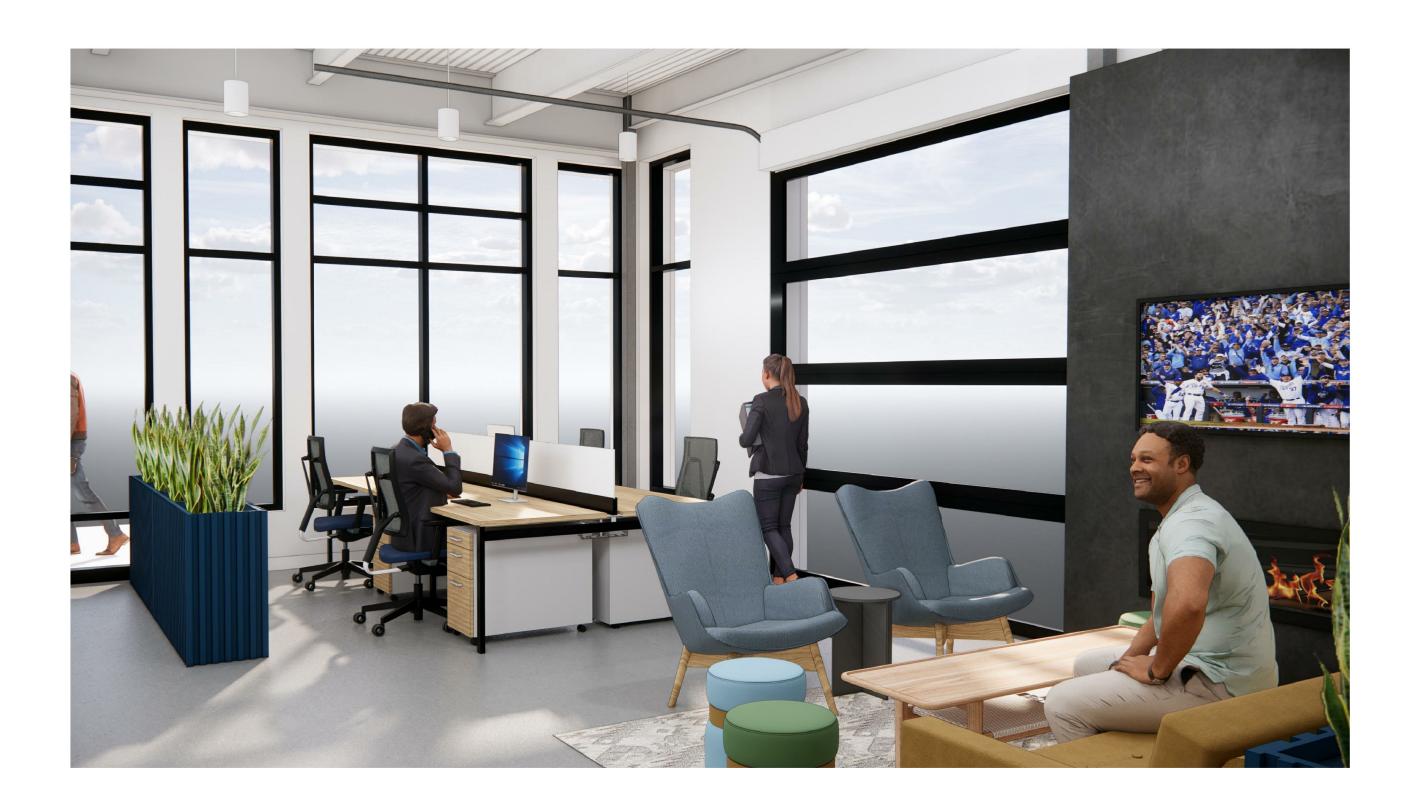
renderings



LOUNGE RENDERING



RESTROOM RENDERING



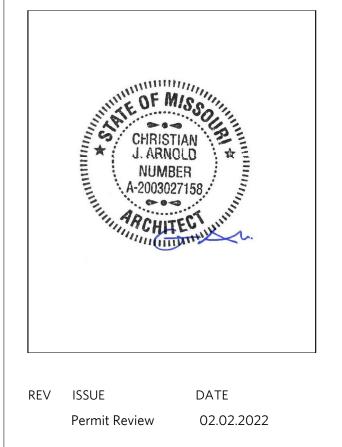
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BOX REAL ESTATE DEVELOPMENT OFFICE 420 SW LONGVIEW BLVD SUITE 116 420 SW LONGVIEW BLVD SUITE 116 LEE'S SUMMIT, MO, 64081



renderings

EXHAUST FAN SCHEDULE														
N 4 A				MODEL	MOUNTING	CENA		DRIVE	l	ELECTRICA	L	WEIGHT		
	ARK	AREA SERVED	MANUFACTURER	MODEL	MOUNTING	CFM	ESP (IN)		VOLTS	PHASE	AMPS		II NOTES	NOTES
EF	-1	RESTROOM 107	PANASONIC	FV-10NLF1E	INLINE	110	0.2	DIRECT	120	1	0.25	20	A,B	
EF	-2	RESTROOM 108	PANASONIC	FV-10NLF1E	INLINE	110	0.2	DIRECT	120	1	0.25	20	A,B	
NO	TES:													
A	A. PRC	VIDE INTERNAL CABINET	BACKDRAFT DAMP	ER, ALL THREAD RO	DS AND VIBRATIO		ORS.							
E	B. INTERLOCK FAN OPERATION WITH LIGHT SWITCH.													
				MINI	SPLIT EQUIP	MENT	SCHEDU	ILE						
JTDOO	RUNIT													
		DECODIDEION			NOMINAL	CAPACIT	Y (BTU/H)		ELECTR	ICAL	W	EIGHT	SIZE (IN)	NOTEC
MARK	SYSTEM#	DESCRIPTION	MANUFACTURE	R MODEL	COOLING	HEA	FING @ 0°F	V/PH	MCA	A MC)CP	LBS.	WxHxD	NOTES
HP-1	1	HEAT PUMP UNIT	LENNOX	MLB048S4M-1	LP 48,000		47,180	208V / 19	Ø 35	5	0	239	41.75x52.5x16.375	C,D
DOOR	JNIT		•	•	4	1		•	·	•	•	ľ		
									ELECTR		1.14			

	MINI-SPLIT EQUIPMENT SCHEDULE											
OUTDOC	R UNIT											
MARK	SYSTEM#	DESCRIPTION	MANUFACTURER	MODEL	NOMINALC	APACITY (BTU/H)	E	LECTRICA	L	WEIGHT	SIZE (IN)	NOTES
IVIARK	STSTEIVI#	DESCRIPTION	IVIANUFACTURER	IVIODEL	COOLING	HEATING @ 0°F	V/PH	MCA	MOCP	LBS.	WxHxD	NOTES
HP-1	1	HEAT PUMP UNIT	LENNOX	MLB048S4M-1P	48,000	47,180	208V / 1Ø	35	50	239	41.75x52.5x16.375	C,D
INDOOR												
MARK	SYSTEM#	DESCRIPTION	MANUFACTURER	MODEL	NOMINAL CAPACITY (BTU/H)		ELECTRICAL		WEIGHT	MAX CFM	NOTES	
IVIANK	STSTEIVI#	DESCRIPTION	IVIANOFACTORER	IVIODEL	COOLING	HEATING	V/PH	MCA	MOCP	LBS.		NOTES
MS-1	1	CEILING CASSETTE	LENNOX	M33A024S4-2P	20,000	21,000	208V / 1Ø	1.5	SEE ELECT.	47	700	A,B
MS-2	1	CEILING CASSETTE	LENNOX	M22A009S4-2P	8,000	8,500	208V / 1Ø	0.9	SEE ELECT.	32	375	A,B
MS-3	1	DUCTED	LENNOX	MMDB024S4-2P	20,000	21,000	208V / 1Ø	1.5	SEE ELECT.	87	735	A,B
NOTES:	NOTES:											
Α.	A. PROVIDE PROGRAMMABLE THERMOSTAT.											
В.	B. PROVIDE 208V/1PH CONDENSATE PUMP AND INSTALL CONDENSATE DRAIN.											

C. DISCONNECT PROVIDED BY ELECTRICAL CONTRACTOR.

D. HEAT PUMP SHALL BE LOW-AMBIENT TYPE RATED FOR -22°F.

GRILLE, REGISTER AND DIFFUSER SCHEDULE							
MARK	MANUFACTURER	MODEL	FACE TYPE	MOUNTING LOCATION	FACE SIZE (IN.)	MAX NC	NOTES
SUPPLY					·		
CSD-1	PRICE	TBD4150	1-SLOT LINEAR, 1"	LAY-IN	48" LONG	25	A-D
CSD-2	PRICE	TBD4150	1-SLOT LINEAR, 1"	SURFACE	24" LONG	25	A-D
DSD-1	PRICE	RPD	ROUND PLAQUE FACE	DUCT	18" DIA.	25	A-D
RETURN/EX	(HAUST						
RG-1	PRICE	LBP	LINEAR BAR GRILLE	SURFACE	12" X 6"	25	A-D
EG-1	PRICE	TBR	1-SLOT LINEAR, 1-1/2"	SURFACE	24" LONG	25	A-D
NOTES:	· · · ·		· · ·		·	·	
Α.	NECK SIZE SHOWN	ON DRAWI	NGS. TRANSITION DUCT AS I	REQUIRED.			
В.	FRAME TYPE TO MATCH CEILING/WALL CONSTRUCTION, COORDINATE WITH ARCHITECTURAL REFLECTED CEILING PLAN.						

BRANCH DUCT SIZE SHALL BE SAME AS NECK SIZE UNLESS OTHERWISE SHOWN ON DRAWINGS. COORDINATE COLOR WITH ARCHITECT

	CONFI
FD:	1
FD2	2
LA\	/
SIN	K
IM	3
wo	2

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ICE MA LAVA WATER CLOS WATER NOTE:

PLUMBING FIXTURE SCHEDULE

FIRI∕	IRM ALL SELECTIONS WITH OWNER AND ARCHITECT PRIOR TO PURCHASE.						
	FLOOR DRAIN: SIOUX CHIEF 832-3PNR, FLOOR DRAIN, PVC BODY AND CLAMPING						
	COLLAR, ADJUSTABLE 5-1/2" ROUND NICKEL BRONZE STRAINER. PROVIDE WITH						
	PROSET SYSTEMS "TRAP GUARD" INSERT FOR ACTUAL FLOOR DRAIN MODEL AND						
	SIZE PROVIDED.						

FLOOR DRAIN: SIOUX CHIEF 832-3PNR, FLOOR DRAIN, PVC BODY AND CLAMPING COLLAR, ADJUSTABLE 5-1/2" ROUND NICKEL BRONZE STRAINER, TRAP PRIMER CONNECTION. PROVIDE TRAP PRIMER ZURN Z1022-DU.

WALL-MOUNT LAVATORY: SEE ARCHITECTRUAL DRAWING FOR FIXTURE

SPECIFICATIONS. PROVIDE FLEXIBLE SS RISERS WITH CHROME PLATED STOP VALVES, P-TRAP WITH CLEANOUT AND ESCUTCHEONS.

UNDERMOUNT KITCHEN SINK: SEE ARCHITECTRUAL DRAWING FOR FIXTURE SPECIFICATIONS. PROVIDE GARBAGE DISPOSAL (INSINKERATOR BADGER 5, 120V, 1/2HP), FLEXIBLE SS RISERS WITH CHROME PLATED STOP VALVES, P-TRAP WITH

CLEANOUT AND ESCUTCHEONS. ICE MAKER OUTLET BOX: WATER TITE AB9702 OUTLET BOX WITH QUARTER TURN VALVES, 1/2" CW CONNECTION AND WATER HAMMER ARRESTOR.

FLOOR-MOUNTED ADA WATER CLOSET: KOHLER K-5310-0, HANDICAP ACCESSIBLE, VIREOUS CHINA, 1.28 GPF, ELONGATED BOWL, FLOOR MOUNTED W/ 16.5" BOWL HEIGHT, WHITE, VITREOUS CHINA TANK AND COVER CONTAINING FLUSH VALVE. PROVIDE WHITE OPEN-FRONT SEAT, CHROME STOPS, C.P. FLEXIBLE RISER TUBE, BOLT CAPS, AND ESCUTCHEON.

ELECTRIC WATER HEATER: AO SMITH DEL-15, 15 GALLON, 3/4" CONNECTIONS, 20 GPH @ 90°F RISE, 240V/1PH, SINGLE 4500W ELEMENT.

FIXTURE BRANCH CONNECTION SCHEDULE							
IXTURE	COLD WATER	HOT WATER	WASTE	VENT			
OR DRAIN	-	-	3"	1-1/2"			
AKER BOX	1/2"	-	-	-			
TORY/SINK	1/2"	1/2"	1-1/2"	1-1/2"			
SET (FLUSH TANK)	1/2"	-	4"	2"			
ER HEATER	3/4"	3/4"	-	-			
	PIPE SIZES SHOWN ARE MINIMUM. MINIMUM SANITARY SIZE						

UNDERGROUND IS 2

MECHANICAL & P

- 1. GENERAL PROVISIONS: A. PROVIDE ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY FOR THE COMPLETE INSTALLATION O THE PLUMBING AND MECHANICAL SYSTEMS OUTLINED. B. OBTAIN ALL PERMITS, FEES, LICENSES, INSPECTIONS, AND CERTIFICATIONS OF COMPLIANCE OR APPROVAL AS REQUIRED BY AUTHORITIES.
- C. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE LAWS, CODES AND REGULATIONS OF THE GOVERNMENTAL BODIES HAVING JURISDICTION OVER THE SITE. D. ALL TESTING REQUIRED BY AUTHORITIES SHALL BE CONSIDERED PART OF THIS WORK.
- E. DURING CONSTRUCTION, ALL FIXTURES, EQUIPMENT, PIPE, DUCT, ETC. SHALL BE COVERED, PLUGGI OR CAPPED AS REQUIRED TO KEEP CLEAN AND UNDAMAGED. ALL DAMAGED ITEMS SHALL BE REST TO ORIGINAL CONDITION OR REPLACED. ALL PROTECTIVE COVERING SHALL BE REMOVED BEFORE F ACCEPTANCE.
- F. PROVIDE ALL NECESSARY CUTTING AND PATCHING OF WALLS. FLOORS. CEILINGS. AND ROOFS AS NECESSARY. PATCH AROUND ALL OPENINGS SHALL MATCH ADJACENT AREA. COORDINATE ALL ROOF WORK WITH OWNER OR RESPONSIBLE PARTY, SO THAT THE EXISTING ROOFING WARRANTY WILL BE
- MAINTAINED. G. CONTRACTOR SHALL GUARANTEE ALL WORK AND MATERIALS AGAINST DEFECT FOR A PERIOD OF OI YEAR FROM FINAL ACCEPTANCE. H. INSPECTION OF THE SITE: THIS CONTRACTOR SHALL THOROUGHLY ACQUAINT HIMSELF WITH THE ME DRAWINGS, SPECIFICATIONS, DETAIL, AND THE SITE. THIS CONTRACTOR SHALL NOTIFY THE ARCHITEC
- ANY SPECIAL OR UNUSUAL PROBLEMS, CONFLICTS, OR OBSTRUCTIONS THAT AFFECT HIS BID. I. FOR THE PURPOSE OF CLEARNESS AND LEGIBILITY, THE MECHANICAL AND PLUMBING DRAWINGS AR ESSENTIALLY DIAGRAMMATIC AND DO NOT SHOW ALL OFFSETS AND FITTINGS REQUIRED FOR INSTALLATION. DO NOT SCALE DRAWINGS. THE SIZE AND LOCATION OF EQUIPMENT IS SHOWN TO SCALE WHEREVER POSSIBLE. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DATA AS INDI ON THE DRAWINGS AND IN THE SPECIFICATION SECTIONS WHERE MECHANICAL WORK INTERFACES OTHER TRADES.
- J. IN THE EVENT OF A CONFLICT OR INCONSISTENCY BETWEEN ITEMS INDICATED ON THE PLANS OR CODE REQUIREMENTS, THE NOTE OR CODE WHICH PRESCRIBES AND ESTABLISHES THE MORE COMF JOB OR HIGHER STANDARD SHALL PREVAIL
- K. INSTALL MATERIALS AND SYSTEMS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND APPF SUBMITTALS. INSTALL MATERIALS IN PROPER RELATION WITH ADJACENT CONSTRUCTION AND WITH UNIFORM APPEARANCE FOR EXPOSED WORK. COORDINATE WITH WORK OF OTHER SECTIONS. COMP WITH APPLICABLE REGULATIONS AND CODE REQUIREMENTS. PROVIDE PROPER CLEARANCES FOR SERVICING.
- L. INCLUDE ALL BASIC MATERIALS AND CONSTRUCTION METHODS INCLUDING PIPES, PIPE FITTINGS, AN SPECIALTIES AND SUPPORTING DEVICES, VALVES, PIPE AND VALVE IDENTIFICATION, PUMPS, VIBRATIO
- ISOLATION, ETC. M. FURNISH ADEQUATE ACCESS PANELS AND DOORS TO ALLOW FOR FUTURE PIPING ALTERATIONS, REPLACEMENT, AND MAINTENANCE OF PIPING. PROPERLY IDENTIFY ALL ACCESS PANELS AND DOOR
- 2. OPERATION AND MAINTENANCE MANUALS: A. DURING THE COURSE OF CONSTRUCTION, COLLECT AND COMPILE OPERATING INSTRUCTIONS, WIRING DIAGRAMS, CATALOG CUTS, LUBRICATION AND PREVENTIVE MAINTENANCE INSTRUCTIONS, PARTS LISTS
- ETC. FOR ALL EQUIPMENT FURNISHED UNDER THIS CONTRACT. B. ALL LITERATURE AND INSTRUCTIONS SHIPPED WITH THE EQUIPMENT SHALL BE SAVED FOR INCLUSIO THE OPERATING AND MAINTENANCE MANUALS.
- C. ALL LITERATURE LISTED ABOVE AND ALL PAPERS LISTING WARRANTIES, ETC. SHALL BE BOUND IN 3-RING BINDER AND LABELED WITH THE PROJECT NAME, ADDRESS, ARCHITECT, ENGINEER AND CONTRACTORS.
- . MANUFACTURERS: A. MANUFACTURERS, MODEL NUMBERS, ETC. INDICATED OR SCHEDULED ON THE DRAWINGS SHALL BE INTERPRETED AS HAVING ESTABLISHED A STANDARD OF QUALITY AND SHALL NOT BE CONSTRUED / LIMITING COMPETITION. ARTICLES, FIXTURES, ETC. OF EQUAL QUALITY BY MANUFACTURERS SHALL ACCEPTABLE, SUBJECT TO STRUCTURAL AND ELECTRICAL CONSTRAINTS OF THE PROJECT DESIGN.
- B. THE ELECTRICAL SYSTEM DESIGN IS BASED IN PART ON THE SPECIFIED EQUIPMENT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE THE ELECTRICAL REQUIREMENTS OF THE EQUIPMENT BEING FURNISHED. ANY CHANGES TO THE ELECTRICAL SYSTEM DUE TO HVAC EQUIPME OTHER THAN THE SPECIFIED EQUIPMENT BEING FURNISHED SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.

<u>4. MOTORS:</u> A. PROVIDE THERMAL OVERLOAD PROTECTION FOR EACH MOTOR PROVIDED BY THIS WORK.

- <u>5. PLUMBING</u> A. PROVIDE AN APPROVED WATER HAMMER ARRESTOR FOR EACH PLUMBING FIXTURE SUPPLY AS REQUIRED BY FIXTURE MANUFACTURER. B. ALL EXPOSED PIPE IN FINISHED AREAS SHALL BE CHROME PLATED BRASS PIPE, NO FERROUS PIF C. PROVIDE CLEANOUTS AT EACH CHANGE IN DIRECTION AND AT 100 FOOT INTERVALS IN STRAIGHT
- PROVIDE ACCESS PANELS FOR ALL CONCEALED VALVES AND TRAPS. E. CLEANOUTS:
- 1. VINYL TILE FLOOR (FCO): JR SMITH #4140, OR EQUAL. 2. QUARRY TILE FLOOR (FCO): JR SMITH #4200, OR EQUAL.
- 3. CARPETED FLOOR (FCO): JR SMITH #4020-Y, OR EQUAL.
- 4. UNFINISHED FLOOR (FCO): JR SMITH #4020, OR EQUAL. WALL (WCO): JR SMITH #4472, OR EQUAL, 24" ABOVE THE FLOOR. 5.
- 6. GRADE (GCO): JR SMITH #4256, OR EQUAL, WITH HEAVY DUTY CAST IRON BODY AND COVER F. ALL SEWER PIPING LOCATED INSIDE THE BUILDING SHALL BE INSTALLED WITH THE FOLLOWING SLOI INSTALL 2-1/2" AND SMALLER PIPE AT 1/4" PER FOOT FALL. 1. 2. INSTALL 3" AND LARGER PIPE AT 1/8" PER FOOT FALL.
- 3. CONDENSATE DRAIN SHALL BE INSTALLED AT 1/8" PER FOOT FALL. G. PROVIDE DIELECTRIC UNIONS WITH APPROPRIATE END CONNECTION TO MATCH THE PIPE SYSTEM II WHICH INSTALLED (SCREWED, SOLDERED, OR FLANGED). PROVIDE DIELECTRIC UNIONS ON ALL PIPIN CONNECTIONS TO HOT WATER HEATERS AND EXPANSION JOINTS.

<u>6. PIPING</u> A. DOMESTIC COLD AND HOT WATER (ABOVEGROUND). TYPE L HARD DRAWN COPPER TUBING, ASTM B-88 WITH WROUGHT BRONZE SOLDERED FITTI GATE VALVE: CRANE #428 OR EQUAL.

- GLOBE VALVE: CRANE #7 OR EQUAL. 4. BALL VALVE: CRANE #932 OR EQUAL.
- B. SANITARY SEWER AND VENTS (UNDERGROUND, INTERIOR TO BUILDING).
- ASTM D2665 POLYVINYL CHLORIDE (PVC) DWV PIPE, SCHEDULE 40, SOLVENT JOINT. SEWER LINES SHALL BE LOCATED IN GENERAL AS SHOWN ON THE DRAWINGS. THE EXACT LOCATIONS SHALL BE DETERMINED BY THE CONTRACTOR IN SUCH A MANNER AS TO MAINTAIL PROPER CLEARANCES AND SUFFICIENT SLOPE TO ENSURE DRAINAGE. 3. VENT STACKS SHALL BE EXTENDED FULL SIZE THROUGH THE ROOF AND FLASHED WITH 4 F LEAD SHEETS TURNED DOWN INTO THE STACK AT LEAST 2" AND EXTENDED 12" IN ALL DIRECTIONS FROM THE PIPE AT THE ROOF LINE. VENTS THROUGH ROOF SHALL NOT BE LES
- THAN 3". PVC PIPING SHALL NOT BE USED FOR VENT PIPING THROUGH THE ROOF. WHERE APPLICABLE FOR ROOFING SYSTEM USED, PROVIDE FLASHING VIA PLEATED EPDM CONE IN L OF LEAD. ALL VENT STACKS IN OR AT OUTSIDE WALLS SHALL BE OFFSET 1'-6" MINIMUM FF OUTSIDE WALLS BEFORE GOING THROUGH THE ROOF, TO FACILITATE FLASHING. C. CONDENSATE DRAIN AND INDIRECT WASTE (ABOVEGROUND) 1. DWV, WROUGHT COPPER, ANSI B-16.29.
- 2. PVC DWV PIPE, SCHEDULE 40, SOLVENT JOINT.
- D. REFRIGERANT 1. ASTM B 280, TYPE ACR, HARD DRAWN STRAIGHT LENGTHS, AND SOFT-ANNEALED COILS,
- SEAMLESS COPPER TUBING. 2. WROUGHT COPPER, ANSI B16.22, STREAMLINED PATTERN, FITTINGS. BRAZED JOINTS, AWS A 5
- CLASSIFICATION BAG-1 (SILVER). 3. TUBING TO BE FACTORY CLEANED, READY FOR INSTALLATION, AND HAVE ENDS CAPPED TO
- PROTECT CLEANLINESS OF PIPE INTERIORS PRIOR TO SHIPPING. 4. SIZE AND INSTALLATION OF PIPING SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- E. ALL PIPE HANGERS AND SUPPORTS SHALL BE STANDARD PRODUCTS OF GRINNELL, FEE AND MASO OR ANVIL. HANGER SPACING SHALL BE IN ACCORDANCE WITH MSS-SP-69. F. SLEEVES
- PROVIDE, SET, AND PROPERLY LOCATE PIPE SLEEVES AS REQUIRED FOR THIS WORK. ALL 1. SLEEVES SHALL BE OF SUFFICIENT SIZE TO PERMIT PIPE MOVEMENT DUE TO EXPANSION AN CONTRACTION AND TO ACCOMMODATE PIPE INSULATION. 2. INTERIOR PARTITIONS: 16 GAUGE GALVANIZED STEEL, PACK BETWEEN PIPE AND SLEEVE WITH
- SAFING AND CAULK AT EACH END WITH FIRE RESISTANT SEALANT. 3. ROOF: PROSET OR EQUAL, MANUFACTURED PVC SCHEDULE 40 PIPE SLEEVE WITH WATERPROV
- SEAL. COORDINATE WITH ROOFING CONTRACTOR AND FLASH AS REQUIRED TO MAINTAIN ROOF WARRANTY. 4. PLUMBING VENTS: FLASH ROOF VENT INTO ROOFING SYSTEM AS REQUIRED BY THE ROOFING
- CONTRACTOR TO MAINTAIN THE EXISTING ROOF WARRANTY. ALL PLUMBING VENT TERMINALS TERMINATE A MINIMUM OF 12" ABOVE ROOF OR EQUAL TO HEIGHT OF PARAPET, WHICHEVER GRFATFR. G. PROVIDE CHROME PLATED ESCUTCHEONS ON ALL PIPE ENTERING FINISHED AREAS.

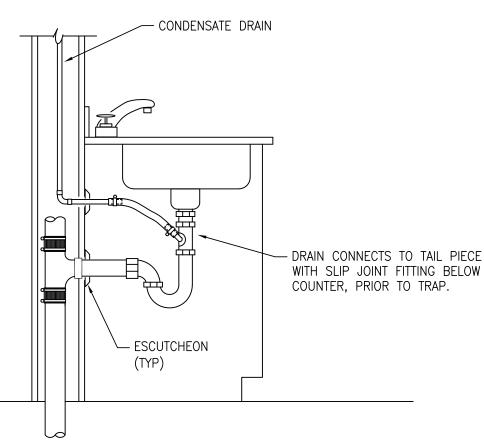
7. INSULATION AND DUCT LINING:

- A. ALL INSULATIONS AND ACCESSORIES SHALL HAVE A FIRE HAZARD CLASSIFICATION WITH A FLAME SPREAD RATING OF NOT OVER 25, A FUEL CONTRIBUTION RATING OF NOT OVER 50, AND A SMOKE DEVELOPMENT RATING OF NOT OVER 50, IN ACCORDANCE WITH NFPA.
- B. PIPE INSULATION (ABOVE GRADE): 1. THE PIPE INSULATION USED SHALL HAVE A THERMAL CONDUCTIVITY OF 0.27 BTU PER IN/HR*SQ-FT*°F OR LESS. FIBERGLASS INSULATION WITH FACTORY APPLIED VAPOR BARRIER, ASJ JACKET, FACTORY APPLIED
- PRESSURE SEALING LONGITUDE LAP JOINT, NO STAPLES, ZESTON PREMOLDED PVC FITTING COVERS. INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. 3. FOR NON CIRCULATING SYSTEMS THE FIRST 8 FEET OF INLET AND OUTLET PIPING BETWEEN THE
- TANK AND HEAT TRAP (INCLUDING THE HEAT TRAP) MUST BE INSULATED.

PLUN	IBING SPECIFICATIONS	M&P SYMBOLS
OF	 4. INSULATION SCHEDULE: a. DOMESTIC COLD WATER: 1/2" b. DOMESTIC HOT WATER: 1" c. REFRIGERANT SUCTION: 1-1/2" FOR PIPING UP TO 1-1/2"ø, 	THIS IS A MASTER LEGEND AND NOT ALL SYMBOLS, ETC, AF NECESSARILY USED ON THE DRAWINGS. HVAC EQUIPMENT & DUCTWORK
GGED, ESTORED FINAL SOOFING BE ONE MEP TECT OF ARE TO NDICATED SWITH MPLETE PPROVED MPLY AND ATION ORS.	 DUMESTIC HOT WATER. REFRIGERANT SUCTION: 1-1/2" FOR PIPING UP TO 1-1/2"Ø, 2" FOR PIPING 1-1/2"Ø AND LARGER. 8. TESTING, BALANCING AND CLEANING: A. ALL PIPING SHALL BE TESTED FOR LEAKS BEFORE BEING CONCEALED IN WALL CONSTRUCTION OR COVERED WITH INSULATION. B. SEWER AND VENT PIPING SHALL BE HYDROSTATICALLY TESTED WITH NO LESS THAN 10 FEET OF HEAD FOR A PERIOD OF NOT LESS THAN 15 MINUTES, PER THE LOCAL PLUMBING CODE, WITH NO LEAKS. C. DOMESTIC WATER PIPING SHALL BE HYDROSTATICALLY TESTED WITH NO LESS THAN 10 FEET OF NOT LESS THAN 2 HOURS, WITH NO LEAKS. D. THE INSPECTION AUTHORITY HAVING JURISDICTION SHALL BE NOTIFIED AT A PRESSURE OF NOT LESS THAN 2 HOURS, WITH NO LEAKS. D. THE INSPECTION AUTHORITY HAVING JURISDICTION SHALL BE NOTIFIED AT LEAST 24 HOURS PRIOR TO PERFORMANCE OF ALL TESTS SO THAT THEY TESTS MAY BE WITNESSED IF DEEMED NECESSARY. E. DUCTWORK AND PIPING SHALL INCLUDE THE BALANCING PROCEDURES AND ARE FAMILIAR WITH TESTING AND BALANCING PROCEDURES OF THE ASSOCIATED AIR BALANCE COUNCIL (AABC) OR NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB). BALANCING SHALL INCLUDE THE BALANCING OF THE EQUIPMENT AND AIR DISTRIBUTION SYSTEMS TO PROVIDE DESIGN QUANITIES INDICATED AND VERIFICATION PERFORMANCE OF ALL EQUIPMENT AND AUTOMATIC CONTROLS. WITH IN 30 DAYS OF THE COMPLETION OF THE TESTING AND BALANCING WORK, SUBMIT THE TEST AND BALANCING REPORT BEARING THE SIGNATURE OF THAT TEST AND BALANCE ENGINEER. THE REPORTS SHALL BE CORTIFIED PROOF THAT THE SYSTEMS HAVE BEEN TESTED, ADJUSTED, AND BALANCED IN ACCORDANCE WITH THE REFERENCED STANDARDS; ARE AN ACCURATE REPRESENTATION OF HOW THE SYSTEMS HAVE BEEN INSTALLED AND ARE OPERATING. REPORTS SHALL BE BOUND IN A VINYL BINDER AND THE BINDER LABELLED OR MAY BE AN ELECTRONIC PDF SUBMITTAL. DUCTWORK WILLESS OTHERWISE INDICATED SHALL BE FABRICATED FROM GALVANIZED SHEET STEEL COMPLYINK WITH ASTM A 527, LOCKFO	SPIN-IN FITTING WITH MANUAL VOLUME DAMPER BRANCH DUCT WITH 45' RECTANGLE-ROUND BR FITTING AND MANUAL VOLUME DAMPER ELBOW WITH TURNING VANES RETURN, EXHAUST, OR OUTSIDE AIR DUCT UP RETURN, EXHAUST, OR OUTSIDE AIR DUCT UP RETURN, EXHAUST, OR OUTSIDE AIR DUCT DOWN SUPPLY AIR DUCT UP SUPPLY AIR DUCT DOWN EQUIPMENT WITH FLEXIBLE DUCT CONNECTION MANUAL VOLUME DAMPER SQUARE TO ROUND TRANSITION JUCT TRANSITION S) T H ZONE SENSOR, THERMOSTAT, HUMIDISTAT MOTORIZED DAMPER
RING ISTS, USION IN IN A BE D AS - BE	 STANDARDS," LATEST EDITION. D. RECTANGULAR DUCT: ELBOWS, UNLESS INDICATED OTHERWISE, SHALL BE CONSTRUCTED WITH CENTERLINE RADIUS OF NOT LESS THAN 1.5 DUCT WIDTH OR SQUARE ELBOWS WITH DOUBLE WALL STREAMLINE ELBOWS. TAKE-OFF FITTINGS: BRANCH DUCT TAKE-OFF FITTINGS FOR SUPPLY AND EXHAUST DIFFUSER/REGISTERS SHALL INCLUDE AN INTEGRAL MANUAL VOLUME DAMPER WITH LOCKING QUADRANT, DAMPER NOT REQUIRED ON RETURN AIR. FOR RECTANGULAR TO ROUND TAKE-OFFS, UTILIZE A "BUCKLEY" MODEL 3300 & 3300D OR EQUAL. RETURN AIR ACOUSTIC ELBOWS AND SOUND BOOTS SHALL BE A SQUARE ELBOW WITH NO TURNING VANES. SLOPES FOR TRANSITIONS OR OTHER CHANGES IN DIMENSIONS SHALL BE A MINIMUM 1 TO 3. ROUND AND OVAL SPIRAL SEAM DUCT: PROVIDE RADIUS TYPE FITTINGS FABRICATED OF MULTIPLE SECTIONS WITH MAXIMUM 15 DEGREE CHANGE OF DIRECTION PER SECTION. UNLESS SPECIFICALLY DETAILED OTHERWISE, USE 45 DEGREE LATERALS FOR BRANCH TAKEOFF CONNECTIONS. WHERE 90 DEGREE BRANCHES ARE 	RIGID BRANCH DUCT SAME SIZE AS DIFFUSER NECK. CEILING EXHAUST FAN HVAC EQUIPMENT & DUCTWORK
PMENT NAL	 INDICATED PROVIDE CONICAL TYPE TEES. SLOPES FOR TRANSITIONS OR OTHER CHANGES IN DIMENSIONS SHALL BE MINIMUM 1 TO 3. ROUND LONGITUDINAL SEAM DUCT: USE FOR RIGID METAL DUCT ON LEAVING SIDE OF DUCT IN CONCEALED LOCATIONS FOR EXTENSION TO FLEX FOR DIFFUSERS. F. SEAL ALL CONCEALED DUCTWORK JOINTS WITH NON-HARDENING, NON-MIGRATING MASTIC SEALANT, AS RECOMMENDED FOR SEALING SEAMS AND JOINTS IN DUCTWORK. OIL BASED CAULKING AND GLAZING COMPOUNDS SHALL NOT BE ACCEPTABLE. DUCTS SHALL BE SEALED TO THE CLASS LEVEL LISTED BELOW: (1) UNCONDITIONED SPACES: (1) UNCONDITIONED SPACES: (1) UNCONDITIONED SPACES: (1) CLASS C (2) CONDITIONED SPACES (PLENUM): (1) CLASS C (1) CLASS	SYMBOL DESCRIPTION
PIPE. HT RUNS.	 G. DUCT SIZES SHOWN ON THE DRAWINGS ARE SHEET METAL SIZES. INCREASE SHEET METAL SIZES ACCORDINGLY TO ACCOUNT FOR THICKNESS OF DUCT LINER. H. WHETHER SHOWN ON PLANS OR NOT, PROVIDE MANUAL VOLUME DAMPERS IN EACH RUNOUT TO EACH SUPPLY DIFFUSER OR REGISTER. PROVIDE ACCESS PANELS TO DAMPERS LOCATED ABOVE HARD CEILINGS. I. PROVIDE AUXILIARY STEEL AS REQUIRED TO ADEQUATELY SUPPORT DUCTWORK. J. WHERE DUCTS PASS THROUGH FIRE—RATED FLOORS, WALLS, OR PARTITIONS, PROVIDE FIRESTOPPING BETWEEN DUCT AND WALL. K. WHERE DUCTS PASS THROUGH INTERIOR PARTITIONS OR EXTERIOR WALLS, AND ARE EXPOSED TO VIEW, CONCEAL SPACE BETWEEN OPENING AND DUCT OR DUCT INSULATION WITH SHEET METAL FLANGES OF SAME GAUGE AS DUCT. OVERLAP OPENING ON 4 SIDES BY AT LEAST 1-1/2". FASTEN TO DUCT AND 	G = GAS PIPING LESS THAN G = GAS PIPING LESS THAN GAS PIPING ON ROOF CW CW COLD WATER PIPING HW HW HOT WATER PIPING HWR RECIRCULATING HOT WATER CA COMPRESSED AIR
IN IN IPING	WALL. <u>10. FLEXIBLE DUCT:</u> A. ATCO #086 (R-6), OR EQUAL. B. FACTORY APPLIED INSULATION AND VAPOR BARRIER, 1–1/2" THICK. C. MAXIMUM LENGTH OF 6'-0".	Image: Pipe elbow down Image: Pipe elbow down Image: Pipe elbow up Image: Pipe elbow up <
ITTINGS.	11. EXPANSION TANK: A. DIAPHRAGM-TYPE EXPANSION TANK: SIZE AS INDICATED ON THE DRAWINGS, CONSTRUCTED OF CARBON STEEL FOR 125 PSIG WORKING PRESSURE, 375°F MAXIMUM OPERATING TEMPERATURE. SEPARATE AIR CHARGE FROM THE WATER BY A FLEXIBLE DIAPHRAGM SECURELY SEALED INTO THE TANK. PROVIDE TAPS FOR PRESSURE GAGE AND AIR CHARGING FITTING, AND A DRAIN VALVE. SUPPORT TANK FROM WALL WITH STRUCTURAL STEEL FRAME ADEQUATELY SIZED TO SUPPORT THE WEIGHT. TANK SHALL BE CONSTRUCTED IN ACCORDANCE WITH, TESTED, AND LABELED ASME PRESSURE CODE, SECTION VIII, DIVISION I.	Image: state of the state
ITAIN 4 POUND LESS RE 1 LIEU 1 FROM	 12. REMODELING WORK: A. THIS PROJECT INVOLVES CONSTRUCTION INSIDE AN EXISTING STRUCTURE. CONTRACTORS, BY SUBMITTING A BID ARE DEEMED TO BE COMPLETELY FAMILIAR WITH THE EXISTING CONDITIONS OF THE BUILDING AS IT INFLUENCES THE WORK DESCRIBED. NO CLAIMS FOR EXTRA COMPENSATION WILL BE CONSIDERED FOR EXISTING CONDITIONS VISIBLE OR REASONABLY INFERABLE FROM A CAREFUL EXAMINATION OF THE EXISTING BUILDING CONDITIONS. B. CONTRACTOR SHALL INSPECT THE EXISTING FIELD CONDITIONS AT THE SITE AND THE CONTRACT DOCUMENTS PRIOR TO THE START OF ANY WORK TO DETERMINE WHAT EFFECT THE EXISTING CONDITIONS WILL HAVE ON THE WORK POTENTIAL. CONTRACTOR SHALL REPORT DISCREPANCIES TO THE ARCHITECT AND INCLUDE IN THE BID ALL COSTS REQUIRED TO MAKE THE WORK MEET EXISTING CONDITIONS. 	WALL CLEANOUT (WCO) FLOOR DRAIN FLOOR SINK HOSE BIB ANNOTATION
A 5.8 D ASON, AND ITH FIRE 2ROOF DOF	 C. DEMOLITION: DISCONNECT, DEMOLISH, AND REMOVE ABANDONED MECHANICAL AND PLUMBING MATERIALS AND EQUIPMENT INDICATED TO BE REMOVED AND NOT INDICATED TO BE SALVAGED OR REMAIN. D. DISPOSAL AND CLEANUP: REMOVE FROM THE SITE AND LEGALLY DISPOSE OF DEMOLISHED MATERIALS AND EQUIPMENT NOT INDICATED TO BE SALVAGED. E. PROTECT ADJACENT MATERIALS INDICATED TO REMAIN. INSTALL AND MAINTAIN DUST AND NOISE BARRIERS TO KEEP DIRT, DUST, AND NOISE FROM BEING TRANSMITTED TO ADJACENT AREAS. REMOVE PROTECTION AND BARRIERS AFTER REMODELING OPERATIONS ARE COMPLETE. F. REMOVE ALL PIPING TO BE DEMOLISHED BACK TO PIPE MAIN OR EDGE OF PROJECT AREA AND CAP PIPE G. PIPING AND DUCTS EMBEDDED IN FLOORS, WALLS, AND CEILINGS MAY REMAIN IF SUCH MATERIALS DO NOT INTERFERE WITH NEW INSTALLATIONS. PIPING AND DUCTS TO REMAIN SHALL BE APPROVED BY THE ARCHITECT. REMOVE MATERIALS ABOVE ACCESSIBLE CEILINGS. DRAIN AND CAP PIPING AND DUCTS ALLOWED TO REMAIN ABOVE CEILING OR BELOW FLOOR, CONCEALED FROM VIEW, EXCEPT AS OTHERWISE NOTED. PATCH FLOOR TO MATCH EXISTING. H. PIPE AND DUCT SHALL BE CONCEALED WITH NEW OR EXISTING CONSTRUCTION WHENEVER POSSIBLE, UNLESS INDICATED OTHERWISE. 	 PLAN WORK NOTE MECHANICAL EQUIPMENT DESIGNATION (CONTRACTOR FURMAND INSTALLED UNLESS NOTED OTHERWISE) PLUMBING FIXTURE DESIGNATION CONNECTION POINT OF NEW WORK TO EXISTING DETAIL REFERENCE UPPER NUMBER INDICATED DETAIL NUMBER INDICATES SHEET NUMBER (E) EXISTING TO REMAIN
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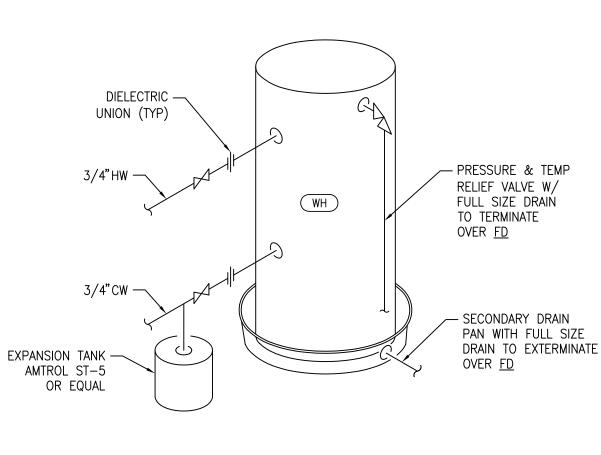


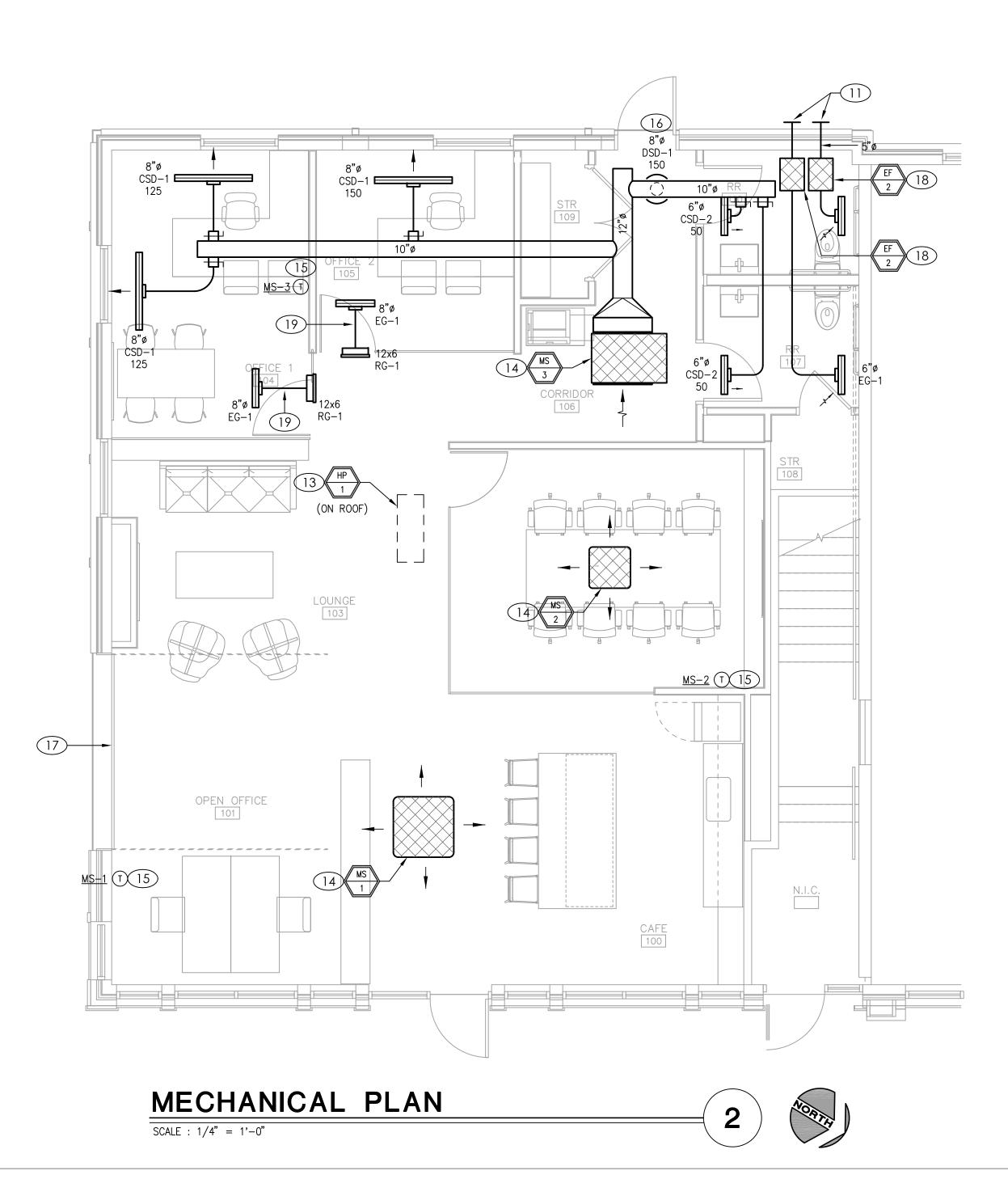
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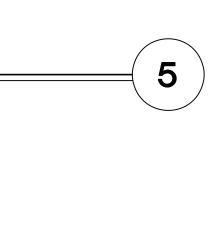


DRAIN TO TAIL PIECE SCALE : NO SCALE

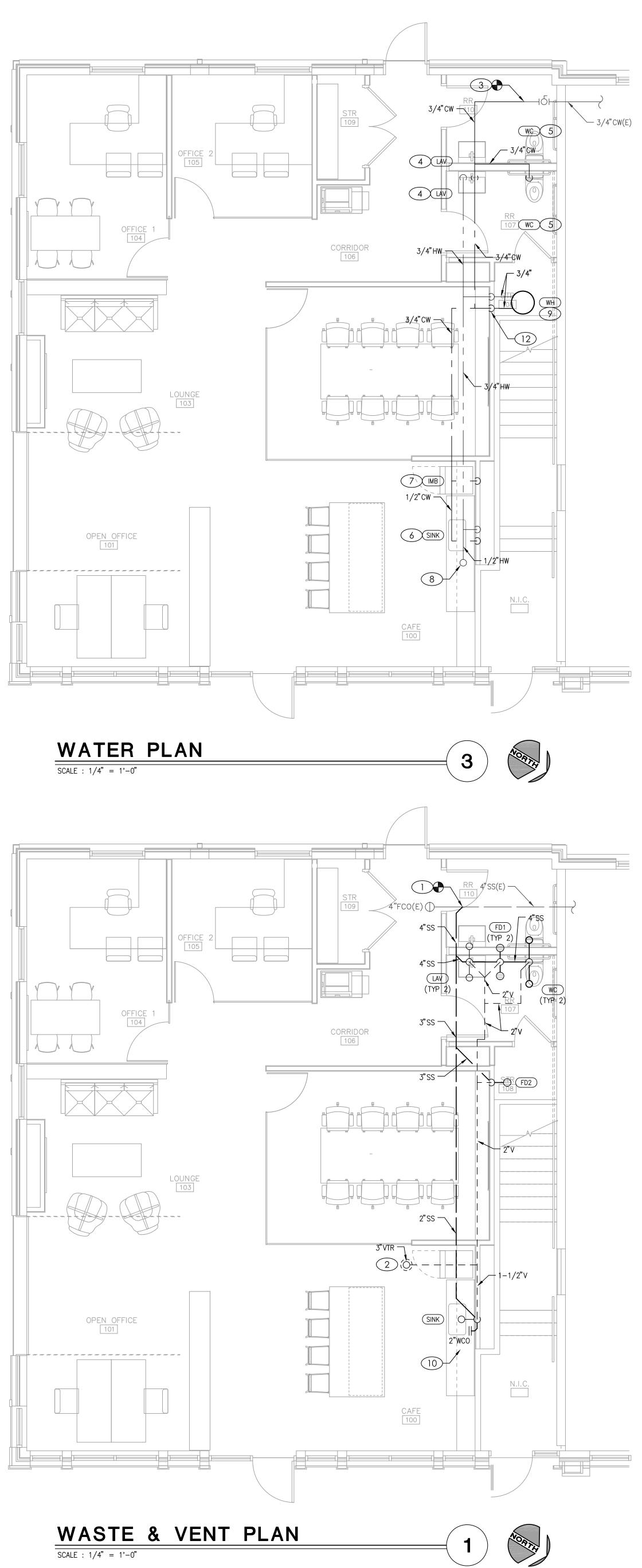
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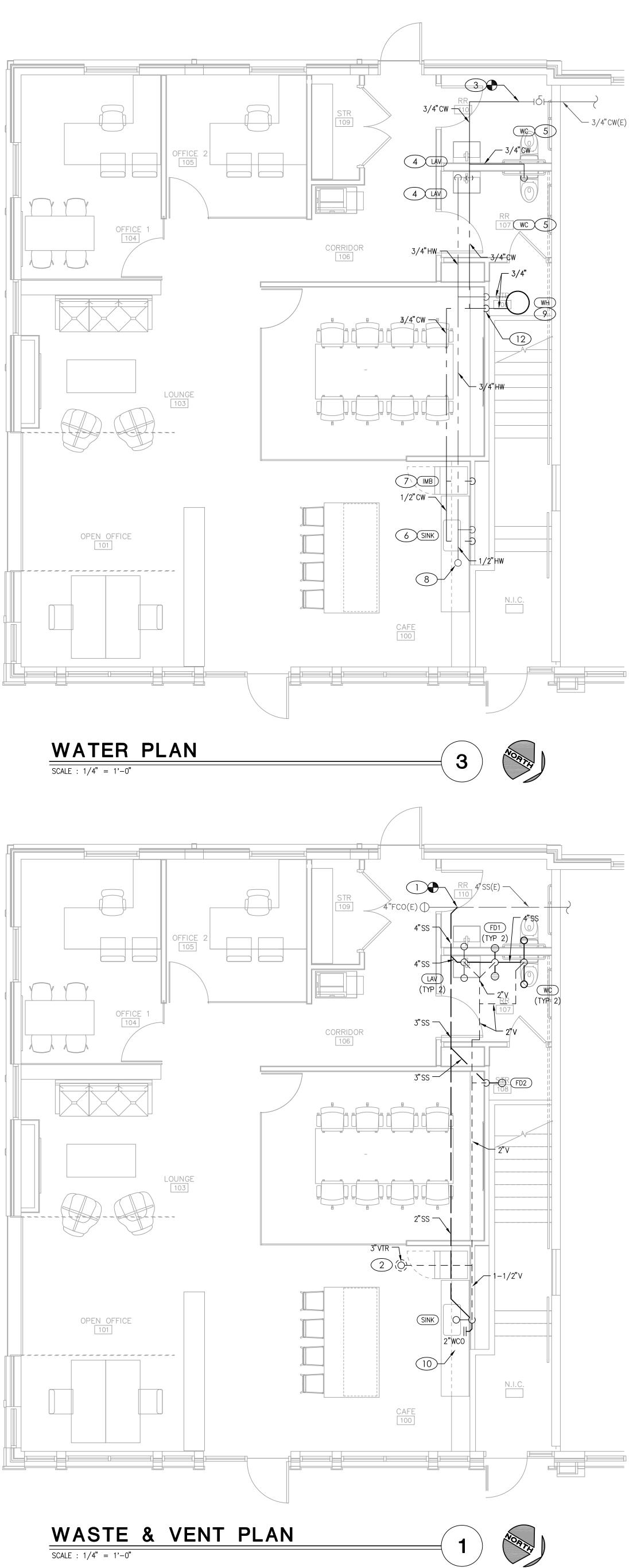






ELECTRIC WATER HEATER DETAIL 4





GENERAL NOTES

- A. DRAWINGS ARE DIAGRAMMATIC ONLY AND REPRESENT THE GENERAL SCOPE OF WORK. REVIEW THE GENERAL NOTES, SPECIFICATIONS AND PLANS FOR ADDITIONAL REQUIREMENTS THAT MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS. NOTIFY ARCHITECT, ENGINEER AND/OR OWNER OF CONFLICTS OR DISCREPANCIES PRIOR TO SUBMISSION OF BID.
- B. COORDINATE INSTALLATION OF MECHANICAL AND PLUMBING SYSTEMS WITH OTHER TRADES TO ENSURE A NEAT AND ORDERLY INSTALLATION AND AVOID CONFLICTS. INSTALL DUCTWORK AND PIPING AS TIGHT TO STRUCTURE AS POSSIBLE. COORDINATE INSTALLATION OF DUCTWORK AND PIPING TO AVOID CONFLICTS WITH ELECTRICAL PANELS, LIGHTING FIXTURES, ETC. VERIFY DUCT SPACE AVAILABLE ABOVE ALL CEILINGS PRIOR TO ANY FABRICATION OF INSTALLATION.
- C. OVERHEAD HANGERS AND SUPPORTS FOR EQUIPMENT, DUCTWORK AND PIPING SHALL BE FASTENED TO BUILDING JOISTS OR BEAMS. DO NOT ATTACH HANGERS AND SUPPORTS TO THE ABOVE FLOOR SLAB OR ROOF.
- D. ALL ROOF AND WALL PENETRATIONS SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR. PROVIDE ALL REQUIRED SLEEVES, FLASHINGS, CURBS, REINFORCED ANGLES, SUPPORTING FRAMES, ETC. UNLESS THEY ARE SPECIFICALLY CALLED OUT TO BE FURNISHED BY OTHERS.
- E. THE ELECTRICAL SYSTEM DESIGN IS BASED IN PART ON THE SPECIFIED HVAC EQUIPMENT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE THE ELECTRICAL REQUIREMENTS OF THE HVAC EQUIPMENT BEING FURNISHED. ANY CHANGES TO THE ELECTRICAL SYSTEM DUE TO HVAC EQUIPMENT OTHER THAN THE SPECIFIED EQUIPMENT BEING FURNISHED SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
- F. PROVIDE THE ARCHITECT AND OWNER WITH A COPY OF THE INSPECTION REPORTS AND APPROVAL CERTIFICATES FROM LOCAL AND STATE INSPECTIONS.
- G. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION AND MOUNTING HEIGHTS OF PLUMBING FIXTURES.
- H. COORDINATE PIPE ROUTING AWAY FROM ELECTRICAL PANELS. DO NOT INSTALL PIPING OVER ELECTRICAL PANELS.
- I. REFER TO PLUMBING FIXTURE SCHEDULE FOR MINIMUM BRANCH WASTE AND VENT PIPE SIZING.
- J. EXACT LOCATION AND ELEVATIONS OF ALL EXISTING UTILITIES SHALL BE VERIFIED PRIOR TO ANY INSTALLATION OR CONNECTIONS THEREOF. ALL CONNECTIONS TO EXISTING UTILITIES (IE: WATER, SEWER & GAS) SHALL BE MADE WITH APPROVAL OF THE ADMINISTRATIVE AUTHORITY AND THE RESPECTIVE UTILITY COMPANY.
- K. SAWCUT EXISTING FLOOR AS REQUIRED FOR INSTALLATION OF NEW UNDERFLOOR PIPING. PATCH FLOOR TO MATCH EXISTING.
- L. EXISTING SANITARY SEWER SHOWN AT APPROXIMATE LOCATION FROM BEST AVAILABLE INFORMATION. PLUMBING CONTRACTOR SHALL INCLUDE WORK REQUIRED TO CAMERA AND LOCATE SEWER LINES PRIOR TO START OF WORK. FIELD VERIFY EXACT LOCATION AND ADEQUATE INVERT ELEVATION FOR CONNECTION OF NEW SEWER LINES.

KEYED PLAN NOTES

- 1. CONNECT NEW 4" SANITARY SEWER TO EXISTING 4" SANITARY SEWER. FIELD VERIFY EXACT LOCATION, FLOW DIRECTION AND ADEQUATE INVERT ELEVATION OF CONNECTION POINT PRIOR TO START OF WORK.
- 2. VENT STACK UP TO 3" VTR. LOCATE MINIMUM 3'-0" FROM EDGE OF ROOF AND 10'-0" FROM ANY OUTSIDE AIR INTAKE. COORDINATE PIPE PENETRATION WITH ROOFING CONTRACTOR SO NOT TO VOID ROOF WARRANTY. SEAL ROOF PENETRATION WEATHER TIGHT.
- 3. CONNECT NEW 3/4"CW PIPING TO EXISTING 3/4" DOMESTIC WATER TAP IN TENANT SPACE. FIELD VERIFY EXACT LOCATION AND SIZE PRIOR TO START OF WORK.
- 4. PROVIDE 3/4"CW AND 3/4"HW DOWN IN WALL TO BACK-TO-BACK FIXTURES. PROVIDE 1/2"CW AND 1/2"HW TO EACH LAVATORY. PROVIDE THERMOSTATIC MIXING VALVE FOR FIXTURE EQUAL TO LEONARD MODEL 170. SET HW SUPPLY WATER TEMPERATURE TO 110°F.
- 5. PROVIDE 3/4"CW DOWN IN WALL TO BACK-TO-BACK FIXTURES. PROVIDE 1/2"CW TO EACH WATER CLOSET.
- 6. PROVIDE 1/2"CW AND 1/2"HW DOWN IN WALL TO SINK.
- 7. PROVIDE 1/2"CW DOWN IN WALL TO ICE MAKER BOX. 8. PROVIDE 1/2"HW TO DISHWASHER.
- 9. MOUNT WATER HEATER LOW IN STORAGE CLOSET. CONNECT 3/4"CW AND 3/4"HW TO WATER HEATER. ROUTE 3/4" T&P RELIEF FROM WATER HEATER TO FLOOR DRAIN.
- 10. PROVIDE DISHWASHER DRAIN TO CONNECTION AT GARBAGE DISPOSAL. ROUTE TO UNDERSIDE OF COUNTERTOP TO CREATE HIGH LOOP THEN BACK DOWN TO GARBAGE DISPOSAL CONNECTION.
- 11. ROUTE 5" DUCT TO WALL CAP. LOCATE A MINIMUM OF 5'-0" FROM EXIT DOOR. SEAL WALL PENETRATION WEATHER TIGHT. PAINT WALL CAP COLOR AS DIRECTED BY ARCHITECT.
- 12. 3/4" HW AND CW DOWN IN WALL. ROUTE BELOW 24" AFF THEN EXIT WALL TO CONNECT TO SIDE OF WATER HEATER. AT BOTTOM OF CW LINE PROVIDE TRAP PRIMER EQUAL TO ZURN Z1022-DU. CONTINUE WITH 3/8"CW UNDERGROUND TO FLOOR DRAIN TRAP PRIMER CONNECTION.
- 13. SET CONDENSING UNIT/HEAT PUMP LEVEL ON ROOF ON PRE-MANUFACTURED PAD. INSTALL PER MANUFACTURER'S INSTRUCTIONS MAINTAINING RECOMMENDED SERVICE CLEARANCES. ROUTE REFRIGERANT LINES THROUGH ROOF AND WEATHER SEAL PENETRATIONS OF BUILDING. PROVIDE ALL RECOMMENDED VALVES, FILTERS, FITTINGS, ETC. AND MAKE ALL NECESSARY CONNECTIONS TO INDOOR UNITS. COORDINATE EXACT LOCATION WITH BUILDING OWNER PRIOR TO INSTALLATION.
- 14. SUPPORT UNIT FROM OVERHEAD STRUCTURE AS REQUIRED. ROUTE 3/4" CONDENSATE DRAIN FROM UNIT TO TAILPIECE OF NEAREST SINK/LAVATORY. COORDINATE INSTALLATION OF SLIP FITTING WITH PLUMBING CONTRACTOR. SEE DETAIL 5 ON THIS SHEET.
- 15. MOUNT THERMOSTAT AT 54"AFF. COORDINATE LOCATION WITH OWNER PRIOR TO INSTALLATION. PROVIDE INSULATED BASE IF ON EXTERIOR WALL.
- 16. MOUNT DIFFUSER ON BOTTOM SIDE OF SPIRAL DUCT. PROVIDE VOLUME DAMPER AT TAKE-OFF. 17. AREA OF ROLL-UP DOOR EXCEEDS 4% OF INTERIOR FLOOR AREA
- SATISFYING IMC SECTION 402.2. INTERIOR DOORS TO OFFICE/CONF. SATISFY SECTION IMC 402.3.
- 18. MOUNT INLINE EXHAUST FAN ABOVE CEILING WITH VIBRATION ISOLATION. INTERLOCK WITH LIGHT SWITCH FOR RESTROOM FAN SERVES. 19. PROVIDE 8" FLEX DUCT BETWEEN LAY-IN CEILING GRILLE (EG-1) AND WALL
- MOUNT GRILLE (RG-1). LOCATE WALL MOUNT GRILLE (RG-1) ABOVE DOOR, HIGH ON WALL, IN TRUSS AREA. TRANSITION TO GRILLE AS REQUIRED.



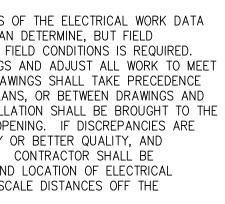
RELEASED FOR CONSTRUCTION As Noted on Plans Review



NDITIONS FURNISH AND INSTALL A COMPLETELY WIRED AND OPERATIONAL ELECTRICAL SYSTEM AS SHOWN ON THE DRAWINGS AND SPECIFIED HEREIN, INCLUDING BUT NOT LIMITED TO, THESE MAJOR ITEMS. A. LIGHTING FIXTURES AS INDICATED AND SPECIFIED ON THE PLANS. B. ELECTRICAL PANELS, SERVICE, CONDUIT, WIRING, ETC., FOR ALL OUTLETS AND EQUIPMENT. C. TELEPHONE, TELEVISION, AND FIRE ALARM. OUTLETS AND CONDUIT AS INDICATED. OBTAIN AND REVIEW ALL OTHER DRAWINGS INCLUDING REFLECTED CEILING PLAN, INTERIOR AND EXTERIOR ELEVATIONS, FURNITURE PLANS AND ALL MILL WORK DRAWINGS. COORDINATE INSTALLATION OF ALL ELECTRICAL DEVICES AND EQUIPMENT PRIOR TO ROUGH-IN. OBTAIN SUBMITTAL AND SHOP DRAWINGS FROM OTHER TRADES AND EQUIPMENT TO COORDINATE INSTALLATION ACCORDINGLY. INSTALLATION ACCORDINGLY. INSTALLATION SHALL COMPLY WITH ALL CURRENT APPLICABLE CODES AND GOVERNING AGENCIES HAVING JURISDICTION. FIRE ALARM SYSTEM, IF REQUIRED PER IBC, SHALL BE DESIGN-BUILD BY OWNER'S/GC'S FIRE ALARM CONTRACTOR. DESIGN SHALL BE IN ACCORDANCE WITH NFPA 72. FIRE ALARM CONTRACTOR SHALL SUBMIT STAMPED DRAWINGS TO AH J FOR REVIEW AND APPROVAL. FIRE ALARM CONTRACTOR SHALL SUBMIT STAMPED DRAWINGS TO AH J FOR REVIEW AND APPROVAL. FIRE ALARM CONTRACTOR SHALL SUBMIT STAMPED DRAWINGS TO AH J FOR REVIEW AND APPROVAL. FIRE ALARM CONTRACTOR SHALL SUBMIT STAMPED DRAWINGS TO AH J FOR REVIEW AND APPROVAL. FIRE ALARM CONTRACTOR SHALL SUBMIT STAMPED DRAWINGS TO AH J FOR REVIEW AND APPROVAL. FIRE ALARM CONTRACTOR SHALL SUBMIT STAMPED DRAWINGS TO AH J FOR REVIEW AND APPROVAL. FIRE ALARM CONTRACTOR SHALL SUBMIT STAMPED DRAWINGS TO AH J FOR REVIEW AND APPROVAL. FIRE ALARM CONTRACTOR SHALL SUBMIT STAMPED DRAWINGS TO AH J FOR REVIEW AND APPROVAL. FIRE ALARM CONTRACTOR SHALL SUBMIT STAMPED DRAWINGS TO AH J FOR REVIEW AND APPROVAL. FIRE ALARM CONTRACTOR SHALL SUBMIT STAMPED DRAWINGS TO AHJ FOR REVIEW AND HORNS WHERE REQUIRED TO MAINTAIN MINIMUM LEVELS. PROVIDE FIRE STOP ON ALL PIPING THAT PENETRATES RATED WALLS. METHOD OF FIRE STOP SHALL MEE WALL RATING. REFER TO ARCHITECTURAL DRAWINGS FOR LOC
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WALL RATING. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION OF FIRE RATED WALLS. THIS CONTRACTOR SHALL PROVIDE FIRE RATED ENCLOSURES AROUND ALL ROUGH-IN BOXES, PANELS, ETC.
LATED WORK BY OTHERS THE ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT, TRENCH, AND BACKFILL FOR ELECTRICAL SERVIC ENTRANCE FROM THE MAIN SERVICE TO UTILITY POINT OF ELECTRICAL SERVICE. ELECTRICAL CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THE ELECTRICAL SERVICE ENTRANCE WITH SERVING UTILITY COMPANY.
THE ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT, TRENCH, AND BACKFILL FOR PRIMARY PHONE AND CATV SERVICE FROM THE TELEPHONE TERMINAL BOARD OR CABINET TO THE PHONE COMPANY AND CATV COMPANY POINT OF SERVICE COORDINATE WITH LOCAL UTILITY COMPANIES.
DES, REGULATIONS, AND STANDARDS THE INSTALLATION SHALL COMPLY WITH APPLICABLE LOCAL AND STATE CODES AND ORDINANCES, WITH THE REGULATIONS OF THE LATEST EDITION OF THE NATIONAL ELECTRIC CODE AND WITH THE REQUIREMENTS OF THE POWER, TELEPHONE, AND CATV COMPANIES FURNISHING SERVICES TO THIS INSTALLATION.
THE LATEST EDITIONS OF THE FOLLOWING INDUSTRY STANDARDS, SPECIFICATIONS, AND CODES ARE MINIMUM REQUIREMENTS: A. THE NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION STANDARDS. B. THE NATIONAL ELECTRICAL CODE, INCLUDING LOCAL AMENDMENTS. C. UNDERWRITER LABORATORIES INCORPORATED STANDARDS. D. AMERICAN NATIONAL STANDARDS INSTITUTE. E. INTERNATIONAL BUILDING CODE.
SPECTION OF SITE PRIOR TO SUBMITTING A BID FOR ELECTRICAL WORK, THE CONTRACTOR SHALL VISIT THE SITE OF THE PROPOSED CONSTRUCTION AND SHALL THOROUGHLY ACQUAINT HIMSELF WITH EXISTING UTILITIES, AND WORKING CONDITIONS TO BE ENCOUNTERED, ETC. ALLOWANCE WILL NOT BE MADE FOR NONCOMPLIANCE WITH THIS CONDITION AFTER BIDDING. ELECTRICAL INSTALLATION SHALL MEET THE EXISTING CONDITIONS.
TORAGE AND HANDLING OF MATERIAL DELIVER MATERIALS AND EQUIPMENT TO THE PROJECT IN THE MANUFACTURER'S ORIGINAL, UNOPENED, LABELED CONTAINERS. PROTECT AGAINST MOISTURE, TAMPERING, OR DAMAGE FROM IMPROPER HANDLING OR STORAGE. CONTRACTOR SHALL PROTECT AND BE RESPONSIBLE FOR ANY DAMAGE TO WORK OR MATERIALS UNTIL FINAL ACCEPTANCE BY THE OWNER, AND SHALL MAKE GOOD WITHOUT COST TO THE OWNER, ANY DAMAGE OR LOSS THAT MAY OCCUR DURING THIS PERIOD. ARRANGE FOR TIMELY DELIVERY OF MATERIALS AND EQUIPMENT TO THE JOB SITE IN ORDER TO MINIMIZE THE LENGTH OF TIME BETWEEN DELIVERY AND INSTALLATION. COVER AND PROTECT ANY MATERIAL WHICH MAY BE AFFECTED BY THE WEATHER WHILE IN TRANSIT OR STORED AT THE PROJECT SITE. ANY MATERIAL FOUND DEFECTIVE OR NOT INSTALLED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS MAY BE REJECTED BY THE ENGINEER.
<u>EANUP</u> KEEP THE PREMISES FREE FROM ACCUMULATION OF WASTE MATERIALS, OR RUBBISH CAUSED BY EMPLOYEES OR WORK UNDER THIS DIVISION OF THE SPECIFICATIONS. AT THE COMPLETION OF THE WORK REMOVE ALL SURPLUS MATERIALS, TOOLS, ETC., AND LEAVE THE PREMISES BROOM-CLEAN.
XCAVATION, CUTTING, AND FITTING PERFORM ALL EXCAVATION AND BACK FILLING REQUIRED FOR WORK PERFORMED UNDER THIS DIVISION OF THE SPECIFICATIONS. USE EXCAVATED MATERIALS FOR BACKFILL UNLESS OFF SITE MATERIALS ARE DEEMED NECESSARY. PERFORM THE EXCAVATION, CUTTING, FITTING, REPAIRING, AND FINISHING OF THE WORK NECESSARY FOR THE INSTALLATION OF THE EQUIPMENT OF THIS SECTION. HOWEVER, NO CUTTING OF THE WORK OF OTHER TRADES OR OF ANY STRUCTURAL MEMBERS SHALL BE DONE WITHOUT THE CONSENT OF THE ARCHITECT.
RAWINGS THE DRAWINGS INDICATE THE GENERAL ARRANGEMENT AND LOCATIONS OF THE ELECTRICAL WORK DATA PRESENTED ON THESE DRAWINGS ARE AS ACCURATE AS PLANNING CAN DETERMINE, BUT FIELD VERIFICATION OF ALL DIMENSIONS, LOCATIONS, LEVELS, ETC., TO SUIT FIELD CONDITIONS IS REQUIRED. REVIEW ALL ARCHITECTURAL, STRUCTURAL, AND MECHANICAL DRAWINGS AND ADJUST ALL WORK TO MEE THE REQUIREMENTS OF CONDITIONS SHOWN. THE ARCHITECTURAL DRAWINGS SHALL TAKE PRECEDENCE OVER ALL OTHER DRAWINGS. DISCREPANCIES BETWEEN DIFFERENT PLANS, OR BETWEEN DRAWINGS AND SPECIFICATIONS, OR REGULATIONS AND CODES GOVERNING THE INSTALLATION SHALL BE BROUGHT TO TH ATTENTION OF THE ENGINEER IN WRITING BEFORE THE DATE OF BID OPENING. IF DISCREPANCIES ARE NOT REPORTED, THE CONTRACTOR SHALL BID THE GREATER QUANTITY OR BETTER QUALITY, AND APPROPRIATE ADJUSTMENTS WILL BE MADE AFTER CONTRACT AWARD. CONTRACTOR SHALL BE RESPONSIBLE TO FIELD MEASURE AND CONFIRM MOUNTING HEIGHTS AND LOCATION OF ELECTRICAL EQUIPMENT WITH RESPECT TO COUNTERS, RADIATION, ETC. DO NOT SCALE DISTANCES OFF THE ELECTRICAL DRAWINGS, USE ACTUAL BUILDING DIMENSIONS.
DOPERATION WITH OTHER CONTRACTORS COOPERATE WITH THE OTHER TRADES SO THAT THE INSTALLATION OF THE ELECTRICAL OUTLETS AND EQUIPMENT WILL BE PROPERLY COORDINATED. CONDUIT, LIGHTING FIXTURES, AND OTHER EQUIPMENT LOCATIONS SHALL BE VERIFIED WITH OTHER TRADES TO AVOID CONFLICT WITH THE PIPING, DUCTWORK, STEEL, BEAMS, OR OTHER OBSTRUCTIONS. CAREFULLY VERIFY THE LOCATIONS OF THE OUTLET BOXES AND DETERMINE THAT THEY HAVE NOT BEEN DISTURBED DURING THE INSTALLATION OF MATERIALS OF OTHER TRADES. COORDINATE THE LOCATION OF THE TRENCHES AND CONDUITS FOR ELECTRICAL AND TELEPHONE UTILITY SERVICES WITH THE GENERAL CONTRACTOR. COORDINATE HVAC AND PLUMBING EQUIPMENT CONNECTION REQUIREMENTS WITH HVAC AND PLUMBING CONTRACTORS. ECORD DRAWINGS THE ELECTRICAL CONTRACTOR SHALL MAINTAIN A SET OF DRAWINGS AT THE JOB SITE FOR THE EXCLUSIVE PURPOSE OF MAINTAINING A RECORD OF ALL WORK INSTALLED AND TO SHOW ANY DEVIATION FROM THE WORK INDICATED ON THE DRAWINGS.

ELECTRICAL SPECIFICATIONS PART II - PRODUCTS AND EXECUTION <u>G WIRING DEVICES</u>

- RICAL SYSTEM AS SHOWN ON THE IESE MAJOR ITEMS. TLETS AND EQUIPMENT. AS INDICATED.
- ING PLAN. INTERIOR AND EXTERIOR DINATE INSTALLATION OF ALL
- QUIPMENT TO COORDINATE
- AND GOVERNING AGENCIES HAVING
- BY OWNER'S/GC'S FIRE ALARM ALARM CONTRACTOR SHALL E ALARM CONTRACTOR IS HE FIRE ALARM SYSTEM MEETS A RE REQUIRED TO MAINTAIN MINIMUM
- METHOD OF FIRE STOP SHALL MEET FIRE RATED WALLS. THIS ROUGH-IN BOXES, PANELS, ETC. _ OPENINGS IN RATED ASSEMBLIES.
- BACKFILL FOR ELECTRICAL SERVICE SERVICE. ELECTRICAL AL SERVICE ENTRANCE WITH BACKFILL FOR PRIMARY PHONE IET TO THE PHONE COMPANY AND
- COMPANIES. CODES AND ORDINANCES, WITH CODE AND WITH THE RNISHING SERVICES TO THIS CIFICATIONS, AND CODES ARE
- SHALL VISIT THE SITE OF THE WITH EXISTING UTILITIES, AND
- ACTURER'S ORIGINAL, UNOPENED, DAMAGE FROM IMPROPER HANDLING OR ANY DAMAGE TO WORK OR KE GOOD WITHOUT COST TO THE JOB SITE IN ORDER TO MINIMIZE WEATHER WHILE IN TRANSIT OR NOT INSTALLED IN ACCORDANCE
- , OR RUBBISH CAUSED BY AT THE COMPLETION OF THE WORK MISES BROOM-CLEAN.
- ERFORMED UNDER THIS DIVISION OF ESS OFF SITE MATERIALS ARE ING OF THE WORK NECESSARY FOR NO CUTTING OF THE WORK OF THOUT THE CONSENT OF THE



THE ELECTRICAL OUTLETS AND TURES, AND OTHER EQUIPMENT CT WITH THE PIPING, DUCTWORK,

- FERMINE THAT THEY HAVE NOT TRADES. ECTRICAL AND TELEPHONE UTILITY ENTS WITH HVAC AND PLUMBING
- AT THE JOB SITE FOR THE LED AND TO SHOW ANY DEVIATIONS RAWINGS, SHOWING ALL RECORD PRIOR TO FINAL PAYMENT.

- A. MATERIALS 1. ALL MATERIALS SHALL BE NEW AND OF QUALITY AS SPECIFIED ON THE PLANS OR SPECIFICATIONS AND MUST CARRY THE UNDERWRITER'S LABORATORIES APPROVAL COVERING THE PURPOSE FOR WHICH THEY ARE USED, IN ADDITION TO MEETING ALL REQUIREMENTS OF THE CURRENT APPLICABLE CODES AND REGULATIONS. B. SHOP DRAWINGS AND APPROVALS 1. THE ITEMS SPECIFIED HEREIN AND ON DRAWINGS ARE USED AS A STANDARD OF QUALITY. ANY
- MATERIALS OF EQUAL QUALITY AND AESTHETIC VALUE WILL BE GIVEN CONSIDERATION AS A SUBSTITUTE FOR THE MATERIALS SPECIFIED. NO APPROVAL WILL BE GIVEN TO A SPECIFIC CATALOG NUMBER, MODEL, OR TYPE OF EQUIPMENT, PRIOR TO BIDDING. AFTER BIDDING, THE DECISION OF THE ARCHITECT AND/OR ENGINEER DETERMINING EQUAL MATERIALS WILL BE FINAL. 2. THE CONTRACTOR SHALL SUBMIT SEVEN (7) IDENTICAL BOUND SETS OF SHOP DRAWINGS ON THE

- FOLLOWING ITEMS: A. LIGHTING FIXTURE CUTS AND PERFORMANCE DATA. B. OUTLINE DRAWINGS AND DATA SHEETS OF EACH PANELBOARD, LOAD CENTERS, AND DISTRIBUTION PANELS. C. OUTLINE DRAWINGS OF ALL SWITCH GEAR COMPONENTS.
- D. WIRING DEVICES AND COVERPLATES. E. ALL CIRCUIT BREAKERS INSTALLED IN PANELBOARDS, LOAD CENTERS, AND DISTRIBUTION PANELS. 3. SUBMIT ITEMS AT ONE TIME IN A NEAT AND ORDERLY MANNER WITHIN 15 DAYS OF AWARD OF CONTRACT. PARTIAL SUBMITTALS WILL NOT BE ACCEPTABLE.
- C. SYSTEM GROUNDING 1. GROUNDING SHALL COMPLY WITH REQUIREMENTS OF ARTICLE 250. ALL EXPOSED NONCURRENT CARRYING METALLIC PARTS OF ELECTRICAL EQUIPMENT. METALLIC RACEWAY SYSTEMS. METALLIC CABLE ARMOR. GROUNDING CONDUCTOR OF NONMETALLIC SHEATHED CABLES, GROUNDING CONDUCTOR IN NONMETALLIC RACEWAYS, AND GROUNDED CONDUCTORS OF THE WIRING SYSTEM SHALL BE GROUNDED. 2. GROUNDING CONDUCTOR (NEUTRAL) OF THE WIRING SYSTEM SHALL BE CONNECTED TO THE SYSTEM GROUNDING CONDUCTOR AT A SINGLE PLACE IN EACH SYSTEM BY REMOVABLE BONDING JUMPERS, SIZED ACCORDING TO THE APPLICABLE PROVISIONS OF THE NATIONAL ELECTRICAL CODE. THE GROUNDED CONDUCTOR (NEUTRAL) TO THE GROUNDING CONDUCTOR CONNECTION SHALL BE LOCATED IN THE
- ENCLOSURE FOR THE SYSTEM'S OVERCURRENT PROTECTION OR WHERE OTHERWISE INDICATED ON THE PLANS OR SPECIFICATIONS. 3. A GROUND BUS SEPARATE FROM THE NEUTRAL BUS SHALL BE PROVIDED IN ALL DISTRIBUTION PANELS AND PANELBOARDS. PROPER TORQUE ON GROUND BUS SHALL BE VERIFIED, PER MANUFACTURER'S RECOMMENDATIONS. PRIOR TO ENERGIZING EQUIPMENT.
- 4. GROUND BUSES AND NEUTRAL BUSES IN ALL DISTRIBUTION PANELS, LOAD CENTERS, PANELBOARDS, AND THOSE PROVIDED IN ANY EQUIPMENT SHALL BE ISOLATED EXCEPT WHERE REQUIRED TO BE CONNECTED AS SPECIFIED ABOVE FOR THE SERVICE ENTRANCE 5. WHEN INDICATED ON THE DRAWINGS, EQUIPMENT GROUNDING CONDUCTORS SHALL BE EXTENDED FROM THE GROUND BUS IN THE DISTRIBUTION EQUIPMENT TO THE RECEPTACLE, FIXTURE OR DEVICE LUGS WHERE THEY ARE PROVIDED. WHERE LUGS ARE NOT PROVIDED, EQUIPMENT GROUNDING CONDUCTORS
- SHALL BE CONNECTED TO EQUIPMENT ENCLOSURES. THE CONNECTIONS SHALL BE ARRANGED SUCH THAT REMOVAL OF THE RECEPTACLE, EQUIPMENT GROUND CONDUCTORS, OR GROUND JUMPERS FROM GROUND BUSING SHALL NOT AFFECT THE GROUND SYSTEM. 6. RACEWAYS MAY NOT BE USED AS A GROUNDING CONDUCTOR FOR POWER AND LIGHTING CIRCUITS. ALL
- CONDUIT SHALL HAVE SEPARATE CODE SIZED GREEN GROUND WIRE INSTALLED IN THE CONDUIT TO INSURE A CONTINUOUS GROUNDING PATH. 7. IN INACCESSIBLE LOCATIONS, MAKE CONNECTIONS BY EXOTHERMIC WELD PROCESS.
- 8. IN ACCESSIBLE LOCATIONS, CONNECTIONS SHALL BE MADE WITH BOLTED THROUGH, APPROVED SOLDERLESS BRONZE GROUNDING DEVICES.
- 1. CONDUCTOR SIZES SHOWN ON THE DRAWINGS ARE BASED ON COPPER WIRE. UNLESS OTHERWISE SPECIFIED, ALL WIRE SHALL BE TYPE XHHW OR SE FOR FEEDERS OR BRANCH CIRCUITS LARGER THAN 4 AWG, TYPE THHN/THWN INSULATION FOR FEEDERS AND BRANCH CIRCUITS 4 AWG AND SMALLER. ALL BRANCH CIRCUIT WIRING SHALL BE COPPER. 2. ALUMINUM CONDUCTORS MAY BE UTILIZED FOR SERVICE ENTRANCE AND PANEL FEEDERS. CONDUCTORS
- SHALL BE ALUMINUM ALLOW AA-8000 SERIES. 3. THE WIRES SHALL BE MARKED WITH COLOR TO SIMPLIFY CIRCUIT IDENTIFICATION. UNLESS OTHERWISE REQUIRED BY LOCAL ORDINANCES GROUND WIRES SHALL BE GREEN, NEUTRAL WIRES SHALL BE 120V-WHITE, AND LIVE WIRES 208Y/120V AND 120/240 SHALL BE BLACK (PHASE A), RED (PHASE B), AND BLUE (PHASE C). CIRCUIT SHALL BE LABELED IN EACH J-BOX. 4. ALL CONDUCTORS SHALL BE RATED 600 VOLT.
- 5. SPLICES IN EXTERIOR PULL BOXES AND MANHOLES SHALL BE WEATHERPROOF USING "SCOTCHCAST" SPLICE KIT OR APPROVED EQUAL. SEAL ENDS OF CONDUITS AND DUCTS WITH "DUCTSEAL" OR APPROVED EQUAL. PROVIDE SOLID CONDUCTOR FOR 12 AWG AND SMALLER.
- ALL WIRING WITHIN RESIDENTIAL UNITS ONLY MAY BE TYPE NM CABLE.
- 8. NO WIRE SHALL BE INSTALLED IN THE CONDUIT SYSTEM UNTIL THE CONDUIT SYSTEM IS COMPLETE. USE MINERALAC NO. 100 OR EQUIVALENT AS A LUBRICANT TO FACILITATE THE INSTALLATION OF THE CONDUCTORS IN THE CONDUIT SYSTEM. 9. MC CABLE WITH COPPER CONDUCTORS AND GROUND WIRE MAY BE USED WHERE PERMITTED.
- E. CONDUIT 1. ALL WIRING SHALL BE INSTALLED IN LISTED METALLIC CONDUIT EXCEPT AS PERMITTED IN OTHER SECTIONS. RGS, WITH A 20 MIL PVC COATING WILL BE USED WHEN IN CONTACT WITH EARTH. IMC MAY BE USED IN INDOOR LOCATIONS NOT IN CONTACT WITH THE EARTH. EMT MAY BE USED IN INDOOR LOCATIONS NOT IN CONTACT WITH EARTH, NOT IN CONCRETE SLABS OR WALLS AND NOT SUBJECT TO DAMAGE. PVC MAY BE USED IN OR BELOW CONCRETE AND DIRECT BURIED IN EARTH. FLEXIBLE STEEL CONDUIT SHALL BE USED FOR INDOOR FINAL CONNECTIONS TO EQUIPMENT IN LENGTHS NOT TO EXCEED 72". LIQUID-TIGHT FLEXIBLE STEEL CONDUIT SHALL BE FOR OUTDOOR FINAL CONNECTIONS TO EQUIPMENT NOT TO EXCEED 48".
- 2. WHERE CONDUIT ENTERS OUTLET BOXES, FIXTURES OR CABINETS, FIRMLY FASTEN WITH STEEL SET SCREW, COMPRESSION CONNECTORS, OR DOUBLE LOCKNUTS FOR GRC. ALL CONNECTIONS SHALL HAVE BUSHINGS OR INSULATED THROAT CONNECTORS. FIRMLY FASTEN CONDUIT TO THE BUILDING CONSTRUCTION. RUN EXPOSED CONDUIT PARALLEL TO THE BUILDING LINES, SUPPORTED BY APPROPRIATE HANGERS (UNISTRUT, T & B OR APPLETON, OR EQUAL).
- 3. COVER METALLIC CONDUIT IN CONTACT WITH EARTH WITH POLYETHYLENE TAPED SPIRAL WRAPPED, 1/2 LAPPED TO PROVIDE 20 MIL. THICKNESS. TAPE SHALL BE SCOTCH NO. 50 TAPE. CONDUIT AND DUCTS NOT UNDER BUILDINGS AND FEEDER DUCTS SHALL BE INSTALLED PER N.E.C. 300-5. MAKE JOINTS WITH COMPOUND TO BE WATERTIGHT.
- 4. SCHEDULE 40 PVC CONDUIT SHALL BE PERMITTED UNDERGROUND WITH PROPER FITTINGS, ALL UL APPROVED AND CEMENTED JOINTS. PENETRATIONS THROUGH FLOOR SLABS AND BENDS GREATER THAN 22° SHALL BE WRAPPED RIGID GALVANIZED STEEL ELBOWS.
- 5. FITTINGS AND CONDUIT BODIES SHALL BE STEEL. DIECAST FITTINGS ARE NOT ACCEPTABLE. 6. CONDUIT SIZES SHALL BE AS REQUIRED BY CODE AND AS INDICATED OR SPECIFIED.
- 7. ALL EMPTY CONDUIT SYSTEMS SHALL HAVE A 200 LB. TEST NYLON PULL STRING TO FACILITATE INSTALLATION OF FUTURE WIRE. 8. WIRING, CONDUITS, AND OUTLETS SHALL BE CONCEALED WITH THE BUILDING STRUCTURE, EXCEPT THAT
- CERTAIN MOTOR AND LIGHTING FEEDER CONDUITS MAY BE RUN EXPOSED IN CERTAIN AREAS AS INDICATED ON THE DRAWINGS.
- 9. CONDUIT PENETRATION THROUGH ROOF SHALL HAVE ROOF FLASHING WITH CAULK TYPE COUNTER FLASHING SLEEVE. INSTALLATION SHALL BE WATERTIGHT. 10. CONDUITS SHALL BE ROUTED PARALLEL AND PERPENDICULAR TO THE STRUCTURE.
- F. OUTLET, PULL, AND JUNCTION BOXES 1. EACH SWITCH, LIGHT. RECEPTACLE OR OTHER OUTLET, INSTALLED IN RESIDENTIAL UNITS, SHALL BE PROVIDED WITH A CODE SIZED, PLASTIC OUTLET BOX. JUNCTION AND PULL BOXES SHALL BE CODE
- SIZED, PLASTIC OR METAL OUTLET BOX. ALL OTHER OUTLET BOXES SHALL BE STEEL 2. BOXES INSTALLED IN POURED CEMENT FLOORS SHALL BE FLUSH TYPE CAST IRON OR STEEL WITH
- WATERTIGHT GASKETED COVERS. WHERE BOXES ARE INSTALLED IN FLOORS WITH TILE OR CARPET FLOOR COVERING, COVERS SHALL BE OF THE RECESSED TYPE TO ACCOMMODATE THE FLOOR COVERING.
- 3. BOXES INSTALLED FOR THE ALARM, COMPUTER, AND SECURITY SYSTEM SHALL BE PROVIDED WITH APPROPRIATE COVER PLATES. 4. BOXES FOR TELEPHONE, COMPUTER, T.V., FIRE ALARM, SECURITY, AND SIMILAR SYSTEMS SHALL BE MINIMUM 2-1/8" DEEP.

	SYMBOLS LEGEND
<u>G WIRING DEVICES</u> 1. WALL SWITCHES SHALL BE SPECIFICATION GRADE AC SILENT TYPE SWITCHES, 20A 120/277 VOLT.	NOTE: THIS IS A MASTER LEGEND AND NOT ALL SYMBOLS, ETC, ARE NECESSARILY USED ON THE DRAWINGS.
 RECEPTACLES SHALL BE SPECIFICATION GRADE, DUPLEX TYPE. NEMA5-20R, 20 AMPERE, 120V0LT GROUNDED TYPE. SPECIAL APPLICATION RECEPTACLES SHALL BE INDICATED ON PLANS. MOUNT WITH THE GROUND DOWN. 	LIGHTING FIXTURES – SYMBOL/LETTER INDICATES LIGHT FIXTURE AS INDICATED ON FIXTURE SCHEDULE
 DEVICE PLATES SHALL BE EQUAL TO SIERRA SMOOTH-LINE PLASTIC WALL PLATES. COLOR SHALL BE WHITE, UNLESS OTHERWISE NOTED. RECEPTACLES IN OUTDOOR AND WET LOCATIONS SHALL BE INSTALLED WITH A HINGED OUTLET COVER/ENCLOSURE CLEARLY MARKED AND U.L. LISTED SUITABLE FOR WET LOCATIONS WHILE IN USE, 	LED FIXTURE (SEE LIGHTING FIXTURE SCHEDULE)
EQUAL TO TAYMAC SPECIFICATION GRADE. <u>J. PANEL BOARDS</u> 1. CIRCUIT BREAKER TYPE AS INDICATED ON DRAWINGS. UNLESS INDICATED OTHERWISE, ALL PANELS SHALL	FIXTURE WITH EMERGENCY BATTERY DRIVER UNIT
HAVE PANEL HAVE PANEL BOARD TYPE CONSTRUCTION WITH BOLT-ON CIRCUIT BREAKERS FOR 3Ø PANELS 2. MANUFACTURERS SHALL BE GENERAL ELECTRIC, SQUARE D, SEIMENS, CUTLER-HAMMER WITH VOLTAGE,	OWNLIGHT FIXTURE WITH EMERGENCY BATTERY DRIVER UNIT
 SIZES, AND RATINGS AS INDICATED ON DRAWINGS. THE CIRCUIT BREAKERS SHALL BE OPERABLE IN ANY POSITION AND BE REMOVABLE FROM THE FRONT OF THE PANEL BOARD WITHOUT DISTURBING THE ADJACENT UNITS. BRANCH BREAKERS SHALL BE OF SUCH DESIGN THAT COMBINATION OF SINGLE-POLE, DOUBLE-POLE, AND THREE-POLE BREAKERS CAN BE ASSEMBLED ON THE SAME PANEL. EACH BRANCH CIRCUIT SHALL BE CLEARLY NUMBERED. BRANCH AND MAN TERMINALS SHALL BE SOLDERLESS TYPE. HANDLE TIES TO FORM MULTI-POLE BREAKERS NOT 	 WALL MOUNTED FIXTURE WITH EMERGENCY BATTERY DRIVER UNIT PENDANT MOUNTED FIXTURE WITH EMERGENCY BATTERY DRIVER UNIT DOWNLIGHT FIXTURE WALL MOUNTED FIXTURE WALL MOUNTED FIXTURE
ACCEPTABLE.	<pre>PENDANT MOUNTED FIXTURE WALL WASHER</pre>
1. PROVIDE ALL LIGHTING FIXTURES, WIRED AND CONNECTED. THE DRAWINGS INDICATE THE FIXTURES FOR EACH LOCATION. PROVIDE LAMPS FOR ALL FIXTURES. THE LAMPS SHALL BE BY THE SAME MANUFACTURER. VERIFY CEILING CONSTRUCTION BEFORE ORDERING RECESSED UNITS. PROVIDE PLASTER FRAMES AND HANGERS AS REQUIRED. CEILING CONSTRUCTION, ARCHITECTURAL ACCESSORIES, VOLTAGE,	 SINGLE FACE EXIT SIGN - UNIVERSAL MOUNTED SINGLE FACE EXIT SIGN W/ DIRECTIONAL ARROWS - UNIVERSAL MTD DOUBLE FACE EXIT SIGN W/ DIRECTIONAL ARROWS - UNIVERSAL MTD
AND BALLASTS TO MEET THE EXISTING CEILING CONDITION. <u>M. LIGHTING CONTROL</u>	UNIVERSAL MTD Ó DUAL HEADED EMERGENCY UNIT
 FURNISH AND INSTALL TIME SWITCHES, PHOTOCELLS, CONTRACTORS AND FULL LIGHTING CONTROL SYSTEMS AS REQUIRED FOR LIGHTING CONTROLS INDICATED ON THE DRAWINGS. TIME SWITCHES SHALL BE EQUAL TO PARAGON, GENERAL ELECTRIC, TORK, OR INTERMATIC AND SHALL 	COMBO DUAL HEADED EMERGENCY AND EXIT SIGN UNIT
HAVE SIZE AND NUMBER OF POLES AS REQUIRED. 3. PHOTOCELLS SHALL BE EQUAL TO TORK OR INTERMATIC WITH VOLTAGE AS INDICATED.	S SINGLE POLE SWITCH @ +48" UNLESS NOTED
 N. TELEPHONE AND CABLE TELEVISION SYSTEMS 1. TELEPHONE WALL OUTLETS SHALL CONSIST OF STANDARD BOXES MOUNTED 18" ABOVE THE FLOOR UNLESS OTHERWISE INDICATED. PROVIDE A TERMINAL MOUNTING BOARD FOR THE INCOMING SERVICE 	Sabc SWITCH BANK @ +48" UNLESS NOTED. LOWER CASE LETTER INDICATES FIXTURE CONTROLLED. Sz 3-WAY SWITCH @ +48" UNLESS NOTED
CABLE. 2. CABLE TELEVISION OUTLETS SHALL CONSIST OF STANDARD BOXES MOUNTED 18" ABOVE THE FLOOR	S4 4-WAY SWITCH @ +48" UNLESS NOTED
UNLESS OTHERWISE INDICATED. PROVIDE A TERMINAL MOUNTING BOARD FOR THE INCOMING SERVICE CABLE.	SM MANUAL MOTOR STARTER
O. GUARANTEE 1. GUARANTEE ALL MATERIAL FURNISHED AND ALL WORKMANSHIP PERFORMED FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE OF WORK. ANY DEFECTS DEVELOPING WITHIN THIS PERIOD,	Sos Wall SWITCH WITH OCCUPANCY SENSOR. DIGITAL LOW VOLTAGE WALL SWITCH. SWITCH @ +48" UNLESS NOTED. SD TWO BUTTON DIGITAL LOW VOLTAGE WALL SWITCH. PROVIDES ON/OFF/0-10V DIMMING. SWITC
TRACEABLE TO MATERIAL FURNISHED AS A PART OF THIS SECTION OR WORKMANSHIP PERFORMED HEREUNDER, SHALL BE MADE GOOD AT NO EXPENSE TO THE OWNER.	@ +48" UNLESS NOTED. PROVIDE EXTRA CONTROL CABLES NEEDED TO FIXTURE CONTROLLED.
 P. REMODELING WORK 1. THIS PROJECT INVOLVES CONSTRUCTION INSIDE AN EXISTING STRUCTURE. CONTRACTORS, BY SUBMITTING A BID ARE DEEMED TO BE COMPLETELY FAMILIAR WITH THE EXISTING CONDITIONS OF THE BUILDING AS IT 	LIGHTING CONTROLS CEILING MOUNT OCCUPANCY SENSOR LIGHTING CONTROLS POWER PACK
INFLUENCES THE WORK DESCRIBED. NO CLAIMS FOR EXTRA COMPENSATION WILL BE CONSIDERED FOR EXISTING CONDITIONS VISIBLE OR REASONABLY INFERABLE FROM A CAREFUL EXAMINATION OF THE EXISTING BUILDING CONDITIONS.	PC PHOTOCELL TC TIMECLOCK
2. CONTRACTOR SHALL INSPECT THE EXISTING FIELD CONDITIONS AT THE SITE AND THE CONTRACT DOCUMENTS PRIOR TO THE START OF ANY WORK TO DETERMINE WHAT EFFECT THE EXISTING CONDITIONS WILL HAVE ON THE WORK POTENTIAL. CONTRACTOR SHALL REPORT DISCREPANCIES TO THE ARCHITECT	POWER DISTRIBUTION
 AND INCLUDE IN THE BID ALL COSTS REQUIRED TO MAKE THE WORK MEET EXISTING CONDITIONS. 3. DEMOLITION: DISCONNECT, DEMOLISH, AND REMOVE ABANDONED MATERIALS AND EQUIPMENT INDICATED TO BE REMOVED AND NOT INDICATED TO BE SALVAGED OR REMAIN. 4. DISPOSAL AND CLEANUP: REMOVE FROM THE SITE AND LEGALLY DISPOSE OF DEMOLISHED MATERIALS AND EQUIPMENT NOT INDICATED TO BE SALVAGED. 5. PROTECT MATERIALS INDICATED TO REMAIN. 	SWITCHBOARD, MOTOR CONTROL CENTER OR DISTRIBUTION BOARD 277/480V, 3 PHASE, 4 WIRE PANELBOARD, UNO 120/208V, 3 PHASE, 4 WIRE PANELBOARD, UNO 120/240V, 1 PHASE, 3 WIRE PANELBOARD, UNO
Q. FIRE SEALING NOTES 1. COORDINATE CONSTRUCTION OF OPENINGS AND PENETRATING ITEMS TO ENSURE THAT	
THROUGH-PENETRATION FIRESTOP SYSTEMS ARE INSTALLED ACCORDING TO SPECIFIED AND APPLICABLE UL REQUIREMENTS.	POWER DEVICES SPECIAL HEAVY DUTY RECEPTACLE – SIZE AS NOTED.
 COORDINATE SIZING OF SLEEVES, OPENINGS, CORE-DRILLED HOLES, OR CUT OPENINGS TO ACCOMMODATE THROUGH-PENETRATION FIRESTOP SYSTEMS. DO NOT COVER UP THROUGH-PENETRATION FIRESTOP SYSTEM INSTALLATIONS UNTIL EXAMINED BY 	 @ +18" UNLESS NOTED ➡ 1/2 SWITCHED RECEPTACLE @ +18" UNLESS NOTED
INSPECTOR, IF REQUIRED BY AUTHORITIES HAVING JURISDICTION. 4. COMPATIBILITY: PROVIDE THROUGH-PENETRATION FIRESTOP SYSTEMS THAT ARE COMPATIBLE WITH ONE ANOTHER; WITH THE SUBSTRATES FORMING OPENINGS; AND WITH THE ITEMS, IF ANY, PENETRATING	 FIRE RATED POKE THRU WITH TYPE INDICATED FLUSH FLOOR BOX WITH TYPE INDICATED
THROUGH-PENETRATION FIRESTOP SYSTEMS, UNDER CONDITIONS OF SERVICE AND APPLICATION, AS DEMONSTRATED BY THROUGH-PENETRATION FIRESTOP SYSTEM MANUFACTURER BASED ON TESTING AND FIELD EXPERIENCE.	↔ SINGLE RECEPTACLE @ +18" UNLESS NOTED
5. PROVIDE COMPONENTS FOR EACH THROUGH-PENETRATION FIRESTOP SYSTEM THAT ARE NEEDED TO INSTALL FILL MATERIALS. USE ONLY COMPONENTS SPECIFIED BY THROUGH-PENETRATION FIRESTOP SYSTEM MANUFACTURER AND APPROVED BY QUALIFIED TESTING AND INSPECTING AGENCY FOR FIRESTOP	DUPLEX RECEPTACLE @ +18" UNLESS NOTED DOUBLE DUPLEX RECEPTACLE @ +18" UNLESS NOTED
 SYSTEMS INDICATED. PROVIDE SLEEVES THROUGH ALL FIRE-RATED WALLS AND FILL VOIDS SURROUNDING SLEEVES AND INTERIOR TO SLEEVES AROUND PIPING WITH FIRE STOP PUTTY WITH U.L. LISTED 3 HOUR RATING 	DUPLEX RECEPTACLE INSTALLED ABOVE COUNTERTOP GFL GFCI-RATED DUPLEX RECEPTACLE
INSTALLED AS PER MANUFACTURERS RECOMMENDATIONS. 7. FIRE SEAL ALL PIPING, CONDUIT, CABLE, ETC PENETRATIONS ROUTED THROUGH FIRE RATED WALLS.	AF ARC FAULT RATED DUPLEX RECEPTACLE
8. PROVIDE FIRE RATED ENCLOSURES OR WRAPS ON LIGHT FIXTURES AND OTHER ITEMS PENETRATING FIRE RATED CEILINGS, FLOOR/CEILING/ CEILING/ROOF ASSEMBLIES TO MAINTAIN UL LISTING FOR CONSTRUCTION.	Image: Constraint of the second state of the second sta
	WP @ 18" UNLESS NOTED JUNCTION BOX
	DISCONNECT SWITCH – SIZE AND TYPE NOTED
	COMBINATION FUSED STARTER DISCONNECT SWITCH FUSE SIZE AS INDICATED, STARTER SIZE '
	MECHANICAL EQUIP. CONNECTION, SEE SCHED. ON MECH. PLAN
	► TELEPHONE OUTLET@ +18" UNLESS NOTED ► DATA OUTLET @ +18" UNLESS NOTED
	COMBINATION TELEPHONE/DATA OUTLET @ +18" UNLESS NOTED
	Image: Television outlet @ +60" unless noted Image: Smoke detector
	HEAT DETECTOR
	DUCT SMOKE DETECTOR RT REMOTE TEST STATION WITH INDICATING LIGHT. MOUNT AT 48" AFF UNO.
	AUXILIARY SYSTEM TERMINAL CABINET
	GENERAL CONDUIT RUN CONCEALED IN WALL OR ABOVE CEILING CONDUIT RUN DELOW FLOOD OD CRADE
	CONDUIT RUN BELOW FLOOR OR GRADE
	P1-3,5,7 FOR TERMINATION. REFER TO ASSOCIATED NOTE FOR BRANCH CIRCUIT CONDUCTOR SIZES. S INDICATES 1/2" CONDUIT CONCEALED IN CEILING OR WALL WITH (3) CONDUCTORS. (1) PHASE
	 (1) NEUTRAL AND (1) GROUND WIRE. ALL ARE #12 AWG UNLESS NOTED OTHERWISE. (E) OR ETR: DENOTES EXISTING ITEM/EQUIPMENT TO REMAIN
	TV: DENOTES DEVICE FOR CONNECTION TO TELEVISION - COORDINATE LOCATION/MOUNTING HEIGH

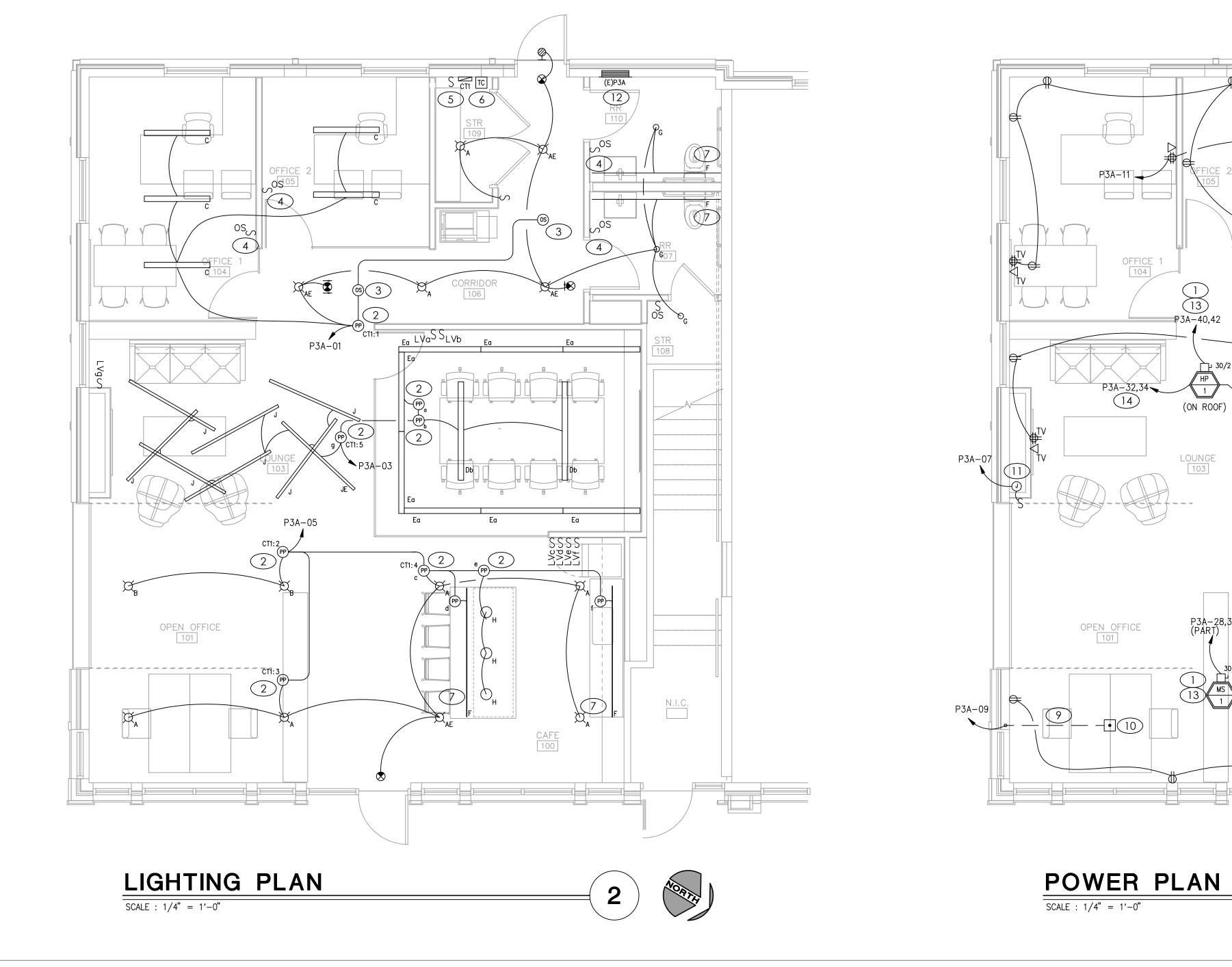


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BUS MAIN VOL1	NELBOARD: P3A (EX AMPS: 225A SIZE/TYPE: 200A MCB TS/PHASE: 208Y/120V, 3PH, 4W FION: 1	ISTINC	j)		AIC R SER\ MOUI	ROM: ATING ÆS: P NTING	3A : Re	ECE	ESSED)	UM FULLY	RATED		LINE-SIDE LUGS: MECHAN EQUIPMENT GROUND	
СКТ	DESCRIPTION	VOL	TAMPS/PI	HASE	WRE	BKR	Ρ	P BM	BKR	KR WIRE	VOLTAMPS/PH		IASE	DESCRIPTION	СКТ
NO.		Α	В	С	NO.	AMP			AMP	NO.	А	В	С		NO.
1	LTG - OFFICES/CORRIDOR/RR	500			12	20	1	1	20	12	180			RCPT - BY PANEL	2
3	LTG - LOUNGE/CONF		500		12	20	1	1	20	12		1,200		PWR - SIGNAGE 1	4
5	LTG - OPEN OFFICE/KITCHEN			500	12	20	1	1	20	12			500	PWR - SIGNAGE 2	6
7	PWR - FIREPLACE	800			12	20	1	1	20	12	500			PWR - SIGNAGE 3	8
9	RCPT - OPEN OFFICE FB		720		12	20	1	1	20	12		500		PWR - SIGNAGE 4	10
11	RCPT - OFFICES DESK QUAD			720	12	20	1	1	20	12			1,200	PWR - HEAT TRACE	12
13	RCPT - OFFICES GEN	1,080			12	20	1	1	20	12	720		,	RCPT - CONF FLOOR BOX	14
15	RCPT - CONV/LOUNGE TV		900		12	20	1	1	20	12		720		RCPT - CONVENIENCE	16
17	RCPT - CONF RM GEN			720	12	20	1	1	20	12			540	RCPT - RESTROOMS/STR	18
19	RCPT - REFRIGERATOR	127			12	20	1	1	20					SPARE	20
21	RCPT - KITCHEN AC GEN		540		12	20	1	1						PROVISIONAL SPACE	22
23	RCPT - DISHWASHER			1,200	12	20	1	1						PROVISIONAL SPACE	24
25	RCPT - WINE COOLER	800		,	12	20	1	1						PROVISIONAL SPACE	26
27	RCPT - KEG		600		12	20	1	2	20	12		1.500		PWR - MS-1,2,3,4 (HACR)	28
29	RCPT - MICROWAVE			1,350	12	20	1					,	1,500		30
31	RCPT - PRINTER DED	1.500		,	12	20	1	2	20	12	250			PWR - CONDENSATE PUMP	32
	RCPT - GARBAGE DISPOSAL	.,= = =	450		12	20	1					250			34
	RCPT - CAFÉ BAR UNDERCOUN			360	12	20	1	2	30	10			2,250	PWR - WH	36
	PROVISIONAL SPACE						1				2,250		,		38
	PROVISIONAL SPACE						1	2	50	6	_,	3.640		PWR - HP-1(HACR)	40
	PROVISIONAL SPACE						1			-		-,	3,640		42
	SUBTOTAL	4,807	3,710	4,850			-				3,900	7,810	9,630	SUBTOTAL	
	TOTAL PHASE A - VA 8,707 LOAD CONN.														
	AMPS 73	COOLIN	G						FRIG		<u> </u>		1.00		
	TOTAL PHASE B - VA 11,520	HEATING		10,280		1.00		SIGN/DISP		2,700		1.00	-		
	AMPS 96 LIGH			1,500		1.25			KITCHEN		2,700	1.00	-		
			13,227		1.0/.5				1		1.00	-			
	AMPS 121	MOTORS			<u>3,227</u> 500				LRG MOTOR				1.25	TOTAL DEMAND	Ъ
			UPP HEAT 5,300			1.00		SHOWWNDW				1.25	34,144 VA		
	AMPS 96			1,200		1.00		LTG TRACK				1.00	95 A		
DAN	ELBOARD NOTES			1,200		1.00		1,			1		1.00		<u>"</u>
•• •														DISPLAY - SIGNAGE & DISPLAY	



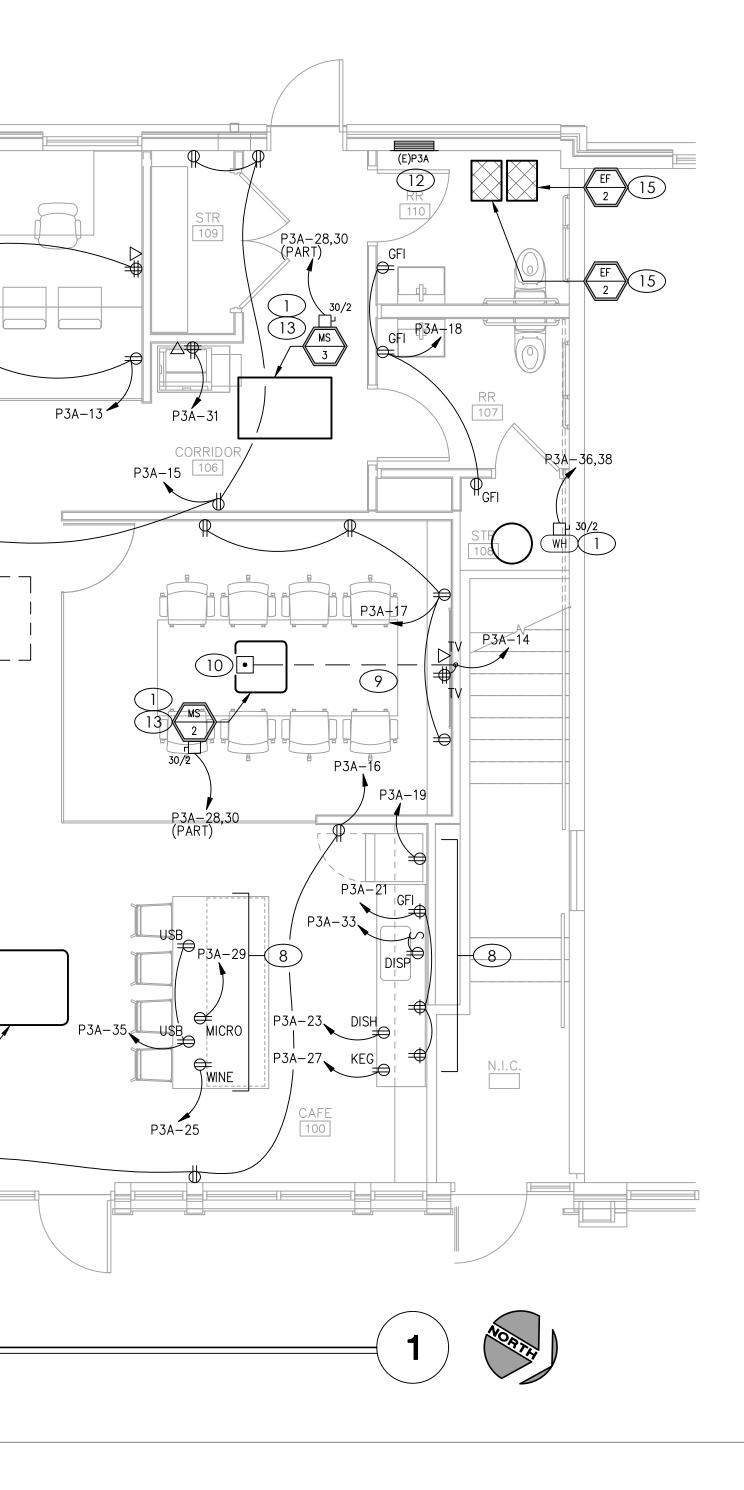
SCALE : NO SCALE



		ELECTRIC		GHTING SC	CHEDULE (OR EQUAL. VERI	FY ALL SELECTIONS AND FINISHES WITH OWNER AND ARCHITECT PRIOR TO ORDERING).		
FIXTURE	MANUFACTURER				LAMP TYPE			
TYPE	NAME	SERIES	AMPS	MOUNTING		REMARKS		
А	ACUITY	LDN6CYL 35/30 LO6AR LSS MVOLT GZ10 PM DWHG	17.7	PENDANT	INCLUDED 3500K LED	PENDANT CYLINDER LED - PROVIDE WITH 'CYS 48IN DWHG' "AE" = PROVIDE WITH MEANWELL OR EQUAL EMERGENCY BATTERY PACK FOR 90MIN OF FULL OUTPUT		
В	ACUITY	LDN6CYL 35/30 LO6AR LSS MVOLT GZ10 FCM DWHG	17.7	SURFACE	INCLUDED 3500K LED	PENDANT CYLINDER LED	MVOLT	
С	FOCAL POINT	FSM4LP-FL-875LF-35K-1C-UNV-LD1-G1-WH-4'	34	RECESSED	INCLUDED 3500K LED	RECESSED LINEAR LED - 4FT	MVOLT	
D	FOCAL POINT	FSM4LP-FL-875LF-35K-1C-UNV-LD1-G1-WH-6FT	51	RECESSED	INCLUDED 3500K LED	RECESSED LINEAR LED - 6FT	MVOLT	
F	GM LIGHTING	LTR-P-12V-3.0W-35K-16	3W/FT	TAPE	INCLUDED 3500K LED	LED TAPE LIGHT - PROVIDE LENGTH TO FILL CAVITY PER INSTANCE - PROVIDE WITH 'LED-CHIL', 'LED-CHL-EC', 'LD-MD-UNV60', AND OTHER ACCESSORIES AS NECESSARY TO MAKE FULLY OPERABLE SYSTEM	MVOLT	
G	ACUITY	LDN4 35/20 LO4AR LSS MVOLT GZ10	3W/FT	RECESSED	INCLUDED 3500K LED	4" LED DOWNLIGHT	MVOLT	
Н	MUUTO	UNFOLD PENDANT	100 MAX	PENDANT	E26 TYPE A BULB PROVIDE LED EQUIVALENT	ARCHITECTURAL PENDANT - WHITE FINISH - PROVIDE WITH LED EQUVALENT BULB.	MVOLT	
J	SONNEMAN	THIN-LINE LED PENDANT LIGHT	21	PENDANT	INCLUDED 3000K LED	ARCHITECTURAL PENDANT LINEAR LED "JE" = PROVIDE WITH MEANWELL OR EQUAL EMERGENCY BATTERY PACK FOR 90MIN OF FULL OUTPUT	MVOLT	
ł⊗	LITHONIA	EDG(R)	5	SURFACE	INCLUDED LED	EDGE-LIT EXIT SIGN	120	
ØH	LITHONIA	ela-b-t-qwp-l0309-SD	5	SURFACE	INCLUDED LED	OUTDOOR EMERGENCY REMOTE EGRESS LIGHTING UNIT	120	

ELECTRIC SERVICE SINGLE LINE DIAGRAM IS EXISTING TO REMAIN. NO MODIFICATIONS ARE BEING MADE TO THE ELECTRICAL SERVICE DISTRIBUTION EQUIPMENT IN THIS SCOPE.



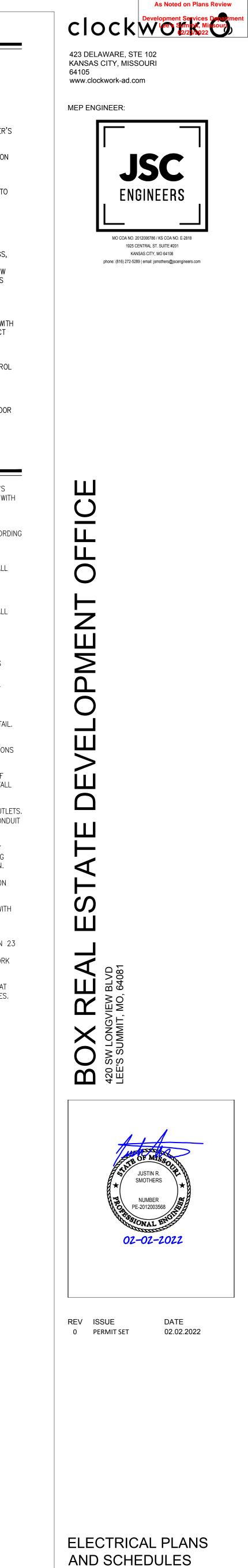


GENERAL NOTES

- A. REFER TO ARCHITECTURAL DRAWINGS AND ELEVATIONS FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF ALL LIGHTING FIXTURES.
- B. REFER TO LIGHTING FIXTURE SCHEDULE FOR LIGHT FIXTURE TYPES AND REQUIREMENTS. .
- C. CONNECT ALL EXIT SIGNS AND EMERGENCY LIGHTING UNITS TO THE INDICATED CIRCUIT WITH A SEPARATE AND UN-SWITCHED CONDUCTOR BYPASSING ALL CONTROLS AND CONTACTORS. REFER TO MANUFACTURER'S WRITTEN INSTRUCTIONS FOR PROPER INSTALLATION AND TESTING.
- D. CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT COORDINATION AND CONFLICT ISSUES BE RESOLVED PRIOR TO INSTALLATION OF LIGHT FIXTURES.
- E. ROUTE ALL EXPOSED, RIGID CONDUIT TIGHT TO STRUCTURE, PARALLEL TO BUILDING LINES AND IN UNISTRUT CABLE/PIPE TRAY WHERE POSSIBLE. COORDINATE CONDUIT ROUTING AND INSTALLATION WITH OTHER TRADES PRIOR TO ROUGH-IN. SUPPORT CONDUIT FROM STRUCTURE NOT ROOF DECK. MAINTAIN 2" MIN SPACING FROM BOTTOM OF ROOF DECK TO PREVENT ROOFING SCREWS FROM PENETRATING CONDUITS.
- F. THROUGH WIRING OF RECESSED LIGHT FIXTURES, IN SUSPENDED CEILINGS, IS NOT PERMITTED. CONNECT EACH LIGHT FIXTURE BY A WHIP TO A JUNCTION BOX. PROVIDE CABLE WHIPS OF SUFFICIENT LENGTH TO ALLOW FOR RELOCATING EACH LIGHT FIXTURE WITHIN A 5-FOOT RADIUS OF ITS INSTALLED LOCATION, BUT NOT EXCEEDING 6 FEET IN UNSUPPORTED LENGTH.
- G. ALL INTERNALLY ILLUMINATED SIGNS SHALL BE PROVIDED WITH AN ACCESSIBLE DISCONNECTION MEANS. VERIFY EACH SIGN IS FURNISHED WITH AN INTEGRAL DISCONNECT SWITCH. PROVIDE WEATHERPROOF DISCONNECT SWITCHES WITHIN SIGHT OF ALL SIGNS AS REQUIRED. MAKE FINAL CONNECTION AS REQUIRED.
- H. PROVIDE FUNCTIONAL TESTING OF OCCUPANCY SENSING LIGHTING CONTROL DEVICES WITH IECC C408.
- I. LIGHTING SHALL HAVE LIGHTING CONTROLS TO MEET IECC 2012.
- L. REFER TO SHEETS MEP001 AND MEP002 FOR FIRE STOP WALL AND FLOOR PENETRATION DETAILS.

KEYED PLAN NOTES

- 1. MAKE CONNECTION TO DIVISION 22/23 EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS AND NEC REQUIREMENTS. COORDINATE CONNECTION WITH DIVISION 22/23 CONTRACTOR PRIOR TO CONSTRUCTION.
- 2. LIGHTING CONTROLS POWER PACK. SENSORWORX SWX-900 SERIES OR PRE-BID APPROVED EQUAL. INSTALL AND MAKE ALL CONNECTIONS ACCORDING TO MANUFACTURER'S LITERATURE AND NEC REQUIREMENTS.
- LIGHTING CONTROLS CEILING MOUNT OCCUPANCY SENSOR. SENSORWORX SWX-200 SERIES OR PRE-BID APPROVED EQUAL. INSTALL AND MAKE ALL CONNECTIONS ACCORDING TO MANUFACTURER'S LITERATURE AND NEC REQUIREMENTS.
- LIGHTING CONTROLS WALL SWITCH OCCUPANCY SENSOR. SENSORWORX SWX-100 SERIES OR PRE-BID APPROVED EQUAL. INSTALL AND MAKE ALL CONNECTIONS ACCORDING TO MANUFACTURER'S LITERATURE AND NEC REQUIREMENTS.
- PROVIDE 8-POLE LIGHTING CONTACTOR WITH ASTRONOMICAL TIMECLOCK OVERRIDE. INSTALL AND MAKE ALL CONNECTIONS ACCORDING TO MANUFACTURER'S LITERATURE AND NEC REQUIREMENTS. ROUTE CIRCUITS LABELED FOR CONNECTION THROUGH CONTACTOR PANEL 'CTC-1'.
- 6. PROVIDE DIGITAL ASTRONOMICAL TIMECLOCK FOR OVERRIDE CONTROL OF CIRCUITS ROUTED THROUGH CONTACTOR PANEL ACCORDING TO MANUFACTURER'S LITERATURE AND NEC REQUIREMENTS.
- 7. COORDINATE EXACT LENGTH OF FIXTURE WITH ARCHITECTURAL COVE DETAIL. PROVIDE LENGTH OF FIXTURE TO FILL COVE.
- 8. COORDINATE EXACT RECEPTACLE LOCATION WITH ARCHITECTURAL ELEVATIONS PRIOR TO CONSTRUCTION.
- COORDINATE CUTTING AND TRENCHING OF FLOOR SLAB FOR ROUTING OF POWER AND DATA CONDUITS UNDERFLOOR OVER TO ROUTE THROUGH WALL CAVITY UP TO ABOVE ACCESSIBLE CEILING.
- 10. FLOOR BOX WITH MINIMUM (2) DUPLEX RECEPTACLES AND (4) DATA OUTLETS. BASIS OF DESIGN: HUBBELL SYSTEMONE FLOOR BOX. PROVIDE 3/4" CONDUIT FOR POWER AND 1-1/4" CONDUIT FOR DATA.
- JUNCTION BOX AND SWITCH FOR CONNECTION TO FIREPLACE INSERT BY OTHERS. COORDINATE EXACT CONNECTION REQUIREMENTS AND SWITCHING EQUIPMENT WITH MANUFACTURER'S LITERATURE PRIOR TO CONSTRUCTION.
 EXISTING PANELBOARD TO REMAIN. REFER TO PANELBOARD SCHEDULE ON
- SHEET E-201 FOR MORE INFORMATION.13. COORDINATE ALL CONNECTIONS BETWEEN INDOOR AND OUTDOOR UNIT WITH
- MANUFACTURER'S LITERATURE AND NEC REQUIREMENTS PRIOR TO CONSTRUCTION. COORDINATE WORK WITH DIVISION 23 CONTRACTOR.14. CIRCUIT FOR CONNECTION TO CONDENSATE PUMP PROVIDED BY DIVISION 23
- 14. CIRCUIT FOR CONNECTION TO CONDENSATE PUMP PROVIDED BY DIVISION 23 CONTRACTOR MAKE CONNECTION TO EQUIPMENT ACCORDING TO MANUFACTURER'S LITERATURE AND NEC REQUIREMENTS. COORDINATE WORK WITH DIVISION 23 CONTRACTOR PRIOR TO CONSTRUCTION.
- 15. DERIVE POWER FROM CIRCUIT SERVING LIGHTING IN ROOM. WIRE SO THAT ON/OFF OPERATION OF EXHAUST FAN COORDINATES WITH LIGHT FIXTURES.



E101

RELEASED FOR CONSTRUCTION