

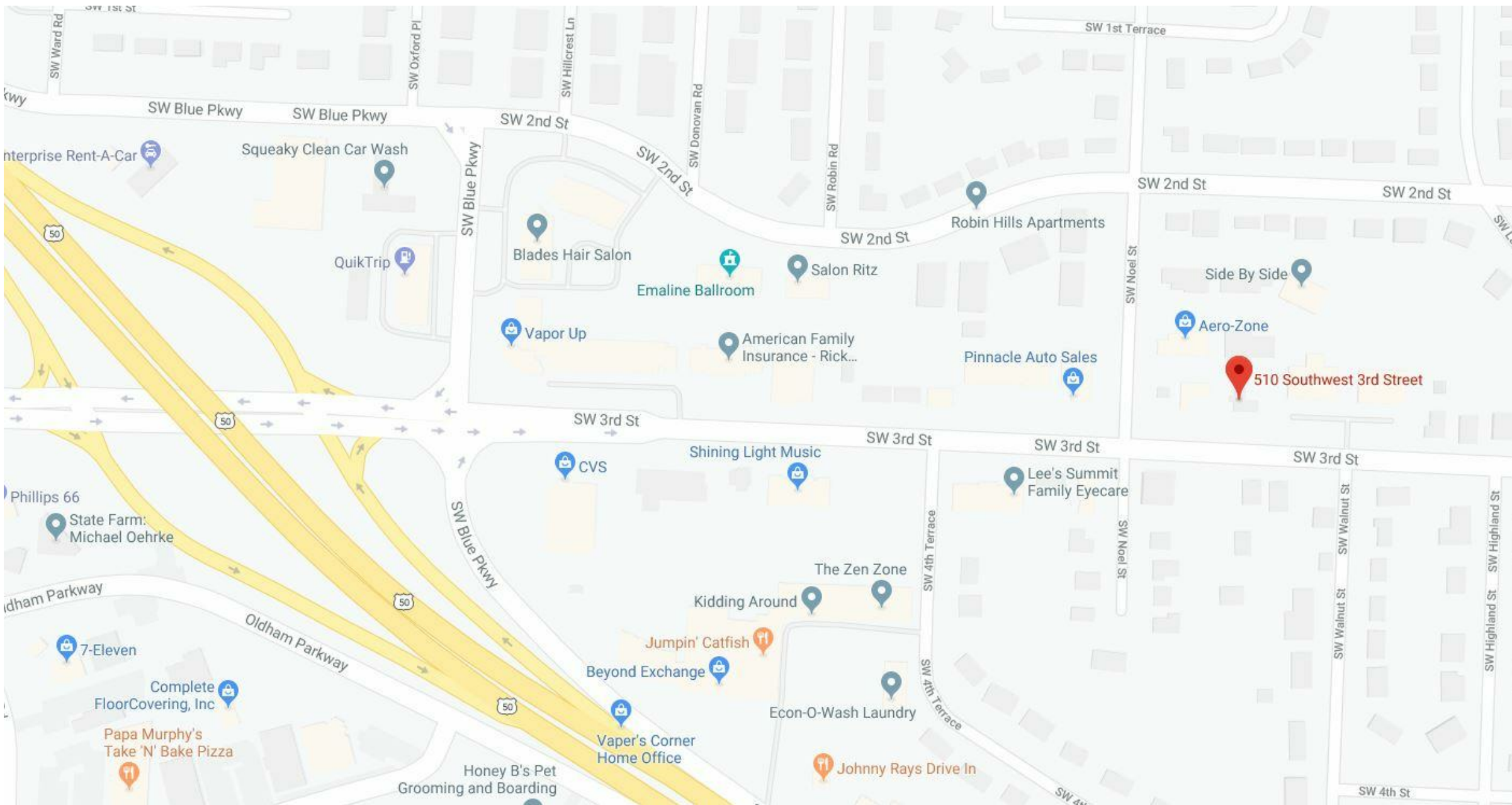
3RD STREET DISPENSARY

510 SW 3rd St., Lee's Summit, MO 64063

PERMIT SET

03/27/2020

COLLINS WEBB #: 19026



VICINITY MAP



GENERAL	
SHEET NUMBER	SHEET NAME
CS	COVER SHEET
G001	GENERAL INFORMATION
G102	LIFE SAFETY PLANS
G103	ACCESSIBILITY GUIDELINES
G104	WALL TYPES & SPECIFICATIONS

ARCHITECTURAL	
SHEET NO.	SHEET NAME
A101	FLOOR PLAN & DOOR DETAILS
A601	REFLECTED CEILING PLANS
A701	INTERIOR ELEVATIONS
A903	FINISH FLOOR PLAN & DETAILS

MEP	
SHEET NUMBER	SHEET NAME
MEP0	MECHANICAL/ELECTRICAL/PLUMBING - COVER SHEET
MEP1	MECHANICAL/ELECTRICAL/PLUMBING - SPECIFICATIONS
MEP2	MECHANICAL/ELECTRICAL/PLUMBING - SPECIFICATIONS
M101	MECHANICAL - PLANS, SCHEDULES & DETAILS
P101	PLUMBING - PLANS, SCHEDULES & DETAILS
E101	ELECTRICAL - PLANS, SCHEDULES & DETAILS
E201	ELECTRICAL - POWER PLANS, SCHEDULES & DETAILS

OWNER

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MEP ENGINEER

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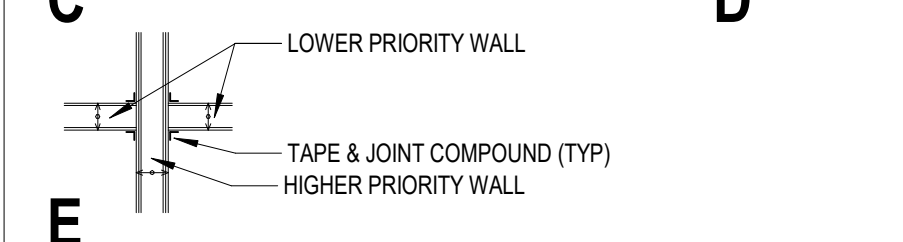
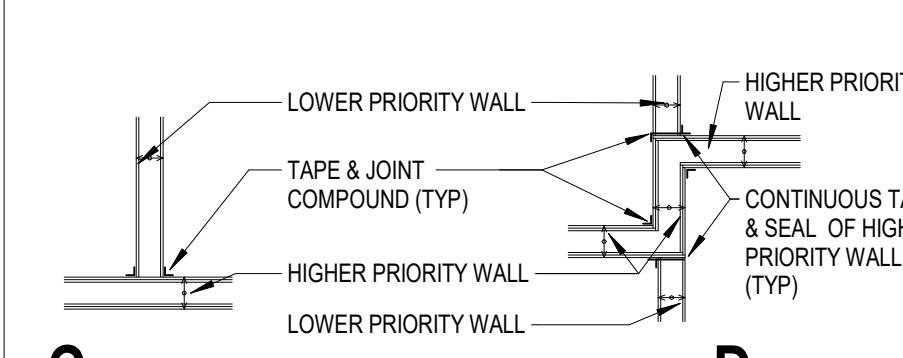
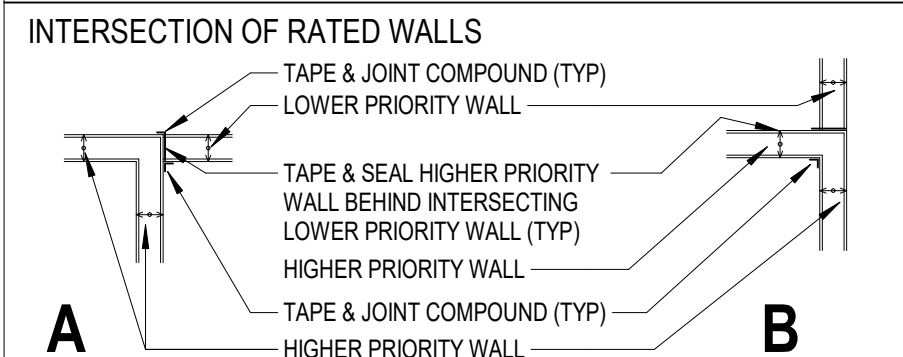
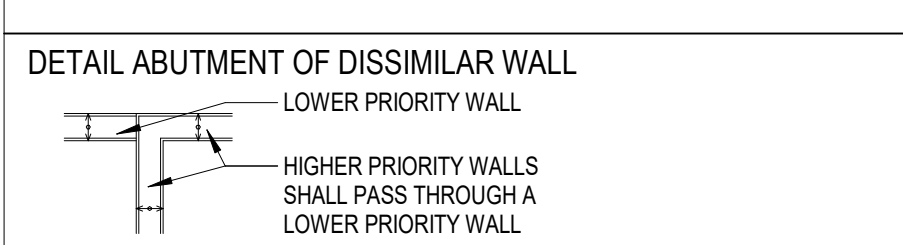
WALL PRIORITY LEGEND

NOTE: THIS LEGEND IS FOR GRAPHIC REPRESENTATION ONLY.

- FOUR HOUR FIRE WALL (4FW)
THREE HOUR FIRE WALL (3FW)
TWO HOUR FIRE WALL (2FW)
FOUR HOUR FIRE BARRIER (4FB)
THREE HOUR FIRE BARRIER (3FB)
TWO HOUR FIRE BARRIER (2FB) (INCLUDES THE FOLLOWING)
• TWO HOUR SHAFT ENCLOSURE (2SE)
• ONE HOUR FIRE BARRIER (1FB) (INCLUDES THE FOLLOWING)
• ONE HOUR SHAFT ENCLOSURE (1SE)

- SMOKE TIGHT PARTITION (K) (INCLUDES THE FOLLOWING)
• SMOKE TIGHT PARTITION TO SMOKE TIGHT CEILING (XC)
• SMOKE TIGHT PARTITION WITHIN PLENUM ABOVE CEILING (XP)
• SMOKE TIGHT PARTITION SEPARATION OF INTERSTITIAL SPACES (XI)

- DETAIL ABUTMENT OF DISSIMILAR WALL
• LOWER PRIORITY WALL
• HIGHER PRIORITY WALLS SHALL PASS THROUGH A LOWER PRIORITY WALL



- NOTES:
1. REFER TO WALL TYPES ON SHEET G121-T1 FOR WALL COMPONENTS, NUMBER OF GYPSUM BOARD LAYERS, TYPE OF GYPSUM BOARD, AND OTHER SIMILAR INFO.
2. THE HIGHER PRIORITY WALL SHALL PASS THROUGH THE LOWER PRIORITY WALL. TAPING AND SEALING OF HIGHER PRIORITY WALLS SHALL BE CONTINUOUS.
3. ALTERNATE LAYERS OF GYPSUM BOARD SHALL OVERLAP AT CORNER INTERSECTIONS OF MULTI-LAYERED RATED GYPSUM BOARD PARTITIONS.

FIRE & SMOKE RESISTIVE LEGEND DEFINITIONS

FIRE WALLS (FW)

DEFINITION
A FIRE RATED WALL THAT IS CONTINUOUS VERTICALLY FROM FOUNDATION TO ROOF TO SEPARATE CONSTRUCTION OF SEPARATE BUILDINGS.

- USE
FIRE WALLS SERVE TO CREATE SEPARATE BUILDINGS FOR THE FOLLOWING REASONS:
• CONSTRUCTION TYPE VARIES FROM ONE BUILDING TO ANOTHER
• COMPLIANCE WITH MAXIMUM ALLOWABLE AREA REQUIREMENTS.
• TO SEPARATE BUILDINGS WITH DIFFERENT LEVELS OF FIRE PROTECTION.
• TO ADDRESS A PROPERTY LINE DEFINING DIFFERENT OWNERSHIP.

- SPECIAL CONSIDERATIONS
• THE FIRE WALL REQUIRES SUFFICIENT STRUCTURAL STABILITY UNDER FIRE CONDITIONS TO ALLOW THE COLLAPSE OF CONSTRUCTION ON EITHER SIDE WITHOUT COLLAPSE OF THE WALL.
• OPENINGS ARE REQUIRED TO BE PROTECTED.
• OPENINGS ARE LIMITED BASED ON A PERCENTAGE OF WALL LENGTH.
• EXTENDING THE FIRE WALL THROUGH THE ROOF WITH A PARAPET IS REQUIRED FOR SOME CONSTRUCTION CLASSIFICATIONS.
• THE REQUIRED FIRE RATING OF A FIRE WALL IS BASED ON OCCUPANCY GROUPS AND CLASS OF CONSTRUCTION.
• HARDWARE FOR SWING DOORS SHALL INCLUDE A LATCH AND CLOSER.

FIRE BARRIERS (FB)

DEFINITION
A FIRE RATED WALL CONSTRUCTED TO RESTRICT THE SPREAD OF FIRE. CONTINUITY SHALL BE MAINTAINED THROUGHOUT THE ENTIRETY OF THE FLOOR OR ROOF DECK ABOVE.

- USE
FIRE BARRIERS HAVE THE FOLLOWING APPLICATIONS:
• TO CREATE HORIZONTAL EXITS.
• TO SEPARATE EXIT PASSAGeways.
• OCCUPANCY SEPARATIONS.
• TO SEPARATE INCIDENTAL USE AREAS.
• ISOLATION OF HAZARDOUS.
• TO SEPARATE ROOMS WITH DIFFERENT LEVELS OF FIRE PROTECTION.
• SMOKE BARRIERS AND SHAFT ENCLOSURES ARE FIRE BARRIERS. SEE ADDITIONAL REQUIREMENTS.

- SPECIAL CONSIDERATIONS
• WITHIN SOME CONSTRUCTION CLASSIFICATIONS, CONSTRUCTION THAT PROVIDES STRUCTURAL SUPPORT OF A FIRE BARRIER IS REQUIRED TO BE OF THE SAME HOURLY FIRE RATING AS THE FIRE BARRIER, OR BETTER.
• OPENINGS ARE REQUIRED TO BE PROTECTED.
• HARDWARE FOR SWING DOORS SHALL INCLUDE A LATCH AND CLOSER.

SHAFT ENCLOSURES (SE)

DEFINITION
A SHAFT ENCLOSURE IS A FIRE BARRIER FORMING THE BOUNDARY OF A VERTICAL SHAFT.

- USE
PROTECT OPENINGS IN FIRE RATED FLOOR/CEILING ASSEMBLIES.

- SPECIAL CONSIDERATIONS
• PENETRATIONS IN SHAFT ENCLOSURES ARE PROHIBITED UNLESS NECESSARY FOR THE FUNCTION OF THE SHAFT. WHERE ALLOWED, OPENINGS ARE REQUIRED TO BE PROTECTED.
• DUCT PENETRATIONS REQUIRE COMBINATION SMOKE AND FIRE DAMPERS EXCEPT FOR EXISTING CONDITIONS THAT ARE GRANDFATHERED.
• HARDWARE FOR SWING DOORS SHALL INCLUDE A LATCH, CLOSER, AND PERIMETER SMOKE SEALS.

FIRE PARTITIONS (FP)

DEFINITION
A FIRE RATED PARTITION THAT IS USED FOR THE APPLICATIONS LISTED BELOW. IT SHALL BE CONTINUOUS FROM THE FLOOR TO UNDERSIDE OF A FIRE-RATED FLOOR/CEILING OR ROOF DECK ABOVE. WHERE ALLOWED BY CODE EXCEPTION, A FIRE PARTITION SHALL BE ALLOWED TO TERMINATE AT THE UPPER MEMBRANE OF A FIRE RATED CEILING.

- USE
FIRE PARTITIONS ARE USED IN CERTAIN OCCUPANCIES TO DO THE FOLLOWING:
• SEPARATE DWELLING UNITS
• SEPARATE SLEEPING SPACES
• SEPARATE CORRIDORS FROM ADJACENT SPACES
• SEPARATE ELEVATOR LOBBIES
• SEPARATE TENANT SPACES IN COVERED BUILDING

- SPECIAL CONSIDERATIONS
• OPENINGS ARE REQUIRED TO BE PROTECTED.
• HARDWARE FOR SWING DOORS SHALL INCLUDE A LATCH AND CLOSER.

BEARING WALLS (BW)

DEFINITION
AN INTERIOR OR EXTERIOR WALL DESIGNED TO SUPPORT FLOOR OR ROOF LOADS. A BEARING WALL IS NOT ALLOWED TO MAINTAIN THE INTEGRITY OF ITSELF AS A FIRE RATED STRUCTURAL ELEMENT. A WALL DOES NOT SERVE AS A FIRE SEPARATION FROM ONE SIDE TO THE OTHER SIDE.

- USE
A VERTICAL, LOAD BEARING STRUCTURAL ELEMENT.

- SPECIAL CONSIDERATIONS
• DOORS AND WINDOWS ARE NOT REQUIRED TO BE RATED.
• HVAC DUCT PENETRATIONS ARE NOT REQUIRED TO BE FIRE-DAMPENED.
• PLUMBING, ELECTRICAL, SPRINKLER SYSTEM, AND CABLE PENETRATIONS ARE REQUIRED TO BE FIRE-STOPPED WITH FIRE SEALANT AT BOTH SIDES, FOR WALLS CONSTRUCTED OF HOLLOW CMU OR STUD FRAMING.

ACTIVE FIRE PROTECTION SYSTEMS:

- AUTOMATIC SPRINKLER SYSTEM - PROVIDED THROUGHOUT (903.2.1)
• STANDPIPE SYSTEM - PROVIDED IN STAIRS THROUGHOUT (905)
• ADDITIONAL CODES MAY BE APPLIED AS SHOWN (905)
• ESCALATOR OPENING PROTECTED IN ACCORDANCE WITH IBC 712.1.3.1. DRAFT CURTAIN AND CLOSELY SPACED SPRINKLERS.

GENERAL NOTES

1. THE FOLLOWING INFORMATION SERVES TO PROVIDE BUILDING OWNERS WITH CONCISE DEFINITIONS OF WALL TYPES RELATED TO LIFE SAFETY ISSUES. THIS INFORMATION IS NOT MEANT TO BE A SUBSTITUTE FOR APPLICABLE BUILDING CODES.
2. WHEN A WALL HAS MORE THAN ONE CLASSIFICATION, THE MOST RESTRICTIVE REQUIREMENTS FOR EACH CLASSIFICATION SHALL APPLY.
3. FOR NEW CONSTRUCTION, PERIMETER SMOKE-SEALS MAY BE REQUIRED AT FIRE-RATED DOORS IN CERTAIN OCCUPANCIES.

GENERAL DESCRIPTION

PROJECT NAME: 3RD ST. DISPENSARY
PROJECT LOCATION: 510 SW 3RD ST., LEE'S SUMMIT, MO, 64063

ARCHITECT:
COLLINS WEBB ARCHITECTURE
13A SW 3RD STREET
LEE'S SUMMIT, MISSOURI 64063
APPLICABLE CODES:
2018 INTERNATIONAL BUILDING CODE
2018 INTERNATIONAL PLUMBING CODE
2018 INTERNATIONAL MECHANICAL CODE
2018 INTERNATIONAL FUEL GAS CODE
2018 INTERNATIONAL FIRE CODE
2017 NATIONAL ELECTRICAL CODE
ICC/ANSI A117.1-2017, ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES

CODE INFORMATION

BUILDING/PROJECT USE:	NO CHANGE	SECTION 303 OR 304
CONSTRUCTION TYPE	V8 NO CHANGE	TABLE 601
OCCUPANCY CLASSIFICATION	NO CHANGE	SECTION 303 OR 304
BASE ALLOWABLE AREA	6,000 SF	TABLE 506.2
ACTUAL TENANT AREA (GROSS)	1,700 SF	TABLE 504.4
NUMBER OF STORIES	1	

FIRE RESISTIVE REQUIREMENTS

PRIMARY FRAME	0 HRS	TABLE 601
NON-BEARING WALLS	0 HRS	TABLE 601
BEARING WALLS INT./ EXT.	0 INT. / 0 EXT. HRS	TABLE 601
FLOOR CONSTRUCTION	0 HRS	TABLE 601
CEILING/ROOF	0 HRS	TABLE 601
CORRIDORS	0 HRS	TABLE 1018.1

FIRE EXTINGUISHERS

1. PROVIDE PORTABLE FIRE EXTINGUISHERS IN OCCUPANCIES AND LOCATIONS AS REQUIRED BY THE FIRE CODE. SEE PLANS FOR SUGGESTED LOCATIONS. NOTIFY ARCHITECT OF ANY PROPOSED RELOCATION OR IF A CONFLICT IS ENCOUNTERED.
2. PORTABLE FIRE EXTINGUISHERS SHALL BE INSTALLED, INSPECTED, AND MAINTAINED IN ACCORDANCE WITH NFPA 10, STANDARD FOR PORTABLE FIRE EXTINGUISHERS.

CEILING HEIGHT NOTES: (IBC 1207)

1. ALL MEANS OF EGRESS TO HAVE A MINIMUM CEILING HEIGHT OF 7'-6" A.F.F., NOR SHALL HAVE ANY PROJECTION FROM THE CEILING BE LESS THAN 6'-8" A.F.F.
2. OCCUPIED SPACES, HABITABLE SPACES AND CORRIDORS SHALL HAVE A CEILING HEIGHT OF NOT LESS THAN 7'-6" A.F.F.
3. BATHROOMS, TOILET ROOMS, KITCHENS, STORAGE ROOMS AND LAUNDRY ROOMS SHALL HAVE A CEILING HEIGHT OF NOT LESS THAN 7'-0" A.F.F.

INTERIOR FINISHES

GROUP A	MAX. FLAME SPREAD	
EXIT ENCLOSURES	CLASS A	803.13 IBC
LOBBIES & CORRIDORS	CLASS A	803.13 IBC
ALL OTHER SPACES	CLASS B	803.13 IBC
TEXTILES	CLASS A (0-25)	IBC 803.1.2
SMOKE DEVELOPED	0-450	IBC 803.1.2

NOTE:
Decorative Materials and Trim (including plastics) must comply with IBC Section 806.

GENERAL EXITING REQUIREMENTS

EXIT TRAVEL DISTANCE	200 FEET	TABLE 1017.2
DEAD END CORRIDOR	20 FEET - GROUP M	SECTION 1020.4 IBC
COMMON PATH OF TRAVEL	75' IF OCC. < 50	SECTION 1006.2.1 IBC
MIN. CORRIDOR WIDTH	44", OR 36" IF OCC. < 50	SECTION 1020.2 IBC

POSTING OF OCCUPANT LOAD

EVERY ROOM OR SPACE THAT IS AN ASSEMBLY OCCUPANCY SHALL HAVE THE OCCUPANT LOAD OF THE ROOM OR SPACE POSTED IN A CONSPICUOUS PLACE, NEAR THE MAIN EXIT OR EXIT ACCESS DOORWAY FROM THE ROOM OR SPACE. POSTED SIGNS SHALL BE OF AN APPROVED LEGIBLE PERMANENT DESIGN AND SHALL BE MAINTAINED BY THE OWNER OR AUTHORIZED AGENT.

EXIT REQUIREMENTS

A. REQUIRED CAPACITY	TABLE/SECTION/REFERENCE
1. STAIRS - 0.3" / PERSON	1005.1
2. OTHER COMPONENTS - 0.2" / PERSON	1005.1
B. MINIMUM NUMBER	
1. OCCUPANT LOAD OF 1-500 PERSONS - 2 EXITS PER STORY	1006.3.1
2. OCCUPANT LOAD OF 501-1000 PERSONS - 3 EXITS PER STORY	1006.3.1
3. OCCUPANT LOAD OF MORE THAN 1000 PERSONS - 4 EXITS PER STORY	1006.3.1

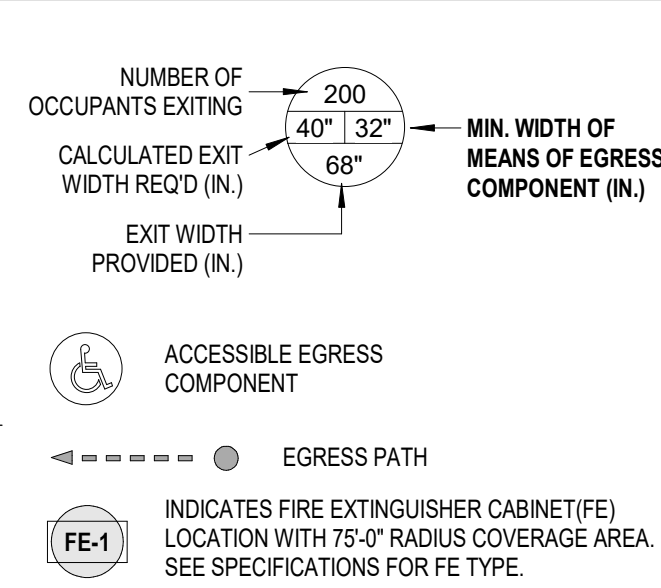
OCCUPANT LOAD

STORAGE AREAS	4 OCC	
BACK OF HOUSE	4 OCC	
RETAIL FLOOR	18 OCC	
RETAIL WAIT	<u>26 OCCUPANTS</u>	TABLE 1004.1.2
TOTAL:		

PLUMBING FIXTURE REQUIREMENTS

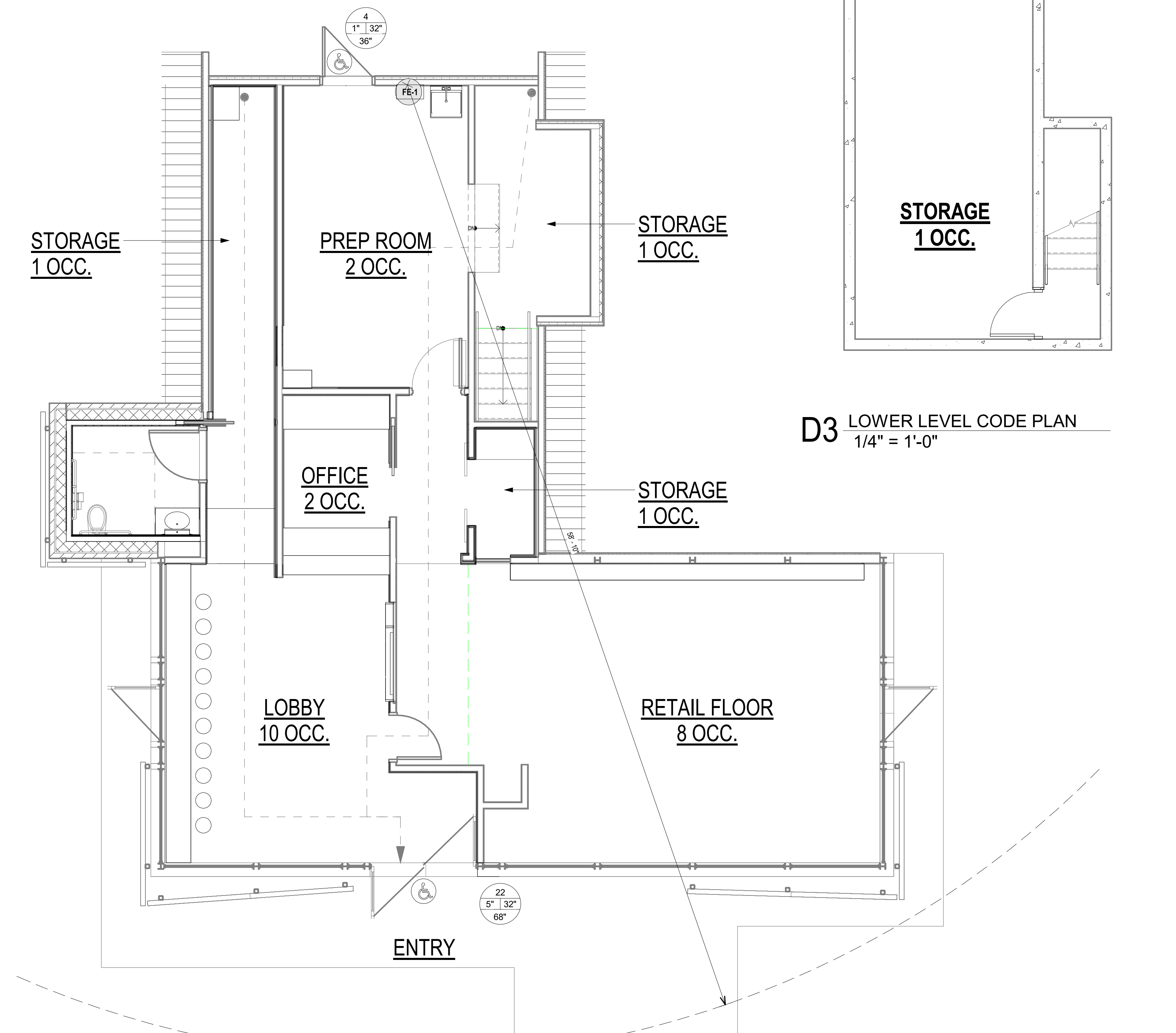
REQUIRED FIXTURE	1	TABLE 2902
PROVIDED FIXTURE	1	
SERVICE SINK PROVIDED	1	

FIRE RESISTIVE LEGEND



MAX. EGRESS DISTANCE

MAX EXIT TRAVEL DISTANCE	200
COMMON PATH - WORST CASE	55' - 9"
MAX. EXIT TRAVEL DISTANCE	57' - 6"



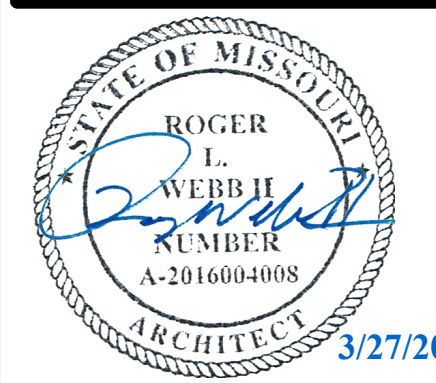
A10 HANDRAIL @ STAIRS
3/4" = 1'-0"

A7 FIRST FLOOR CODE PLAN
1/4" = 1'-0"

3RD STREET DISPENSARY

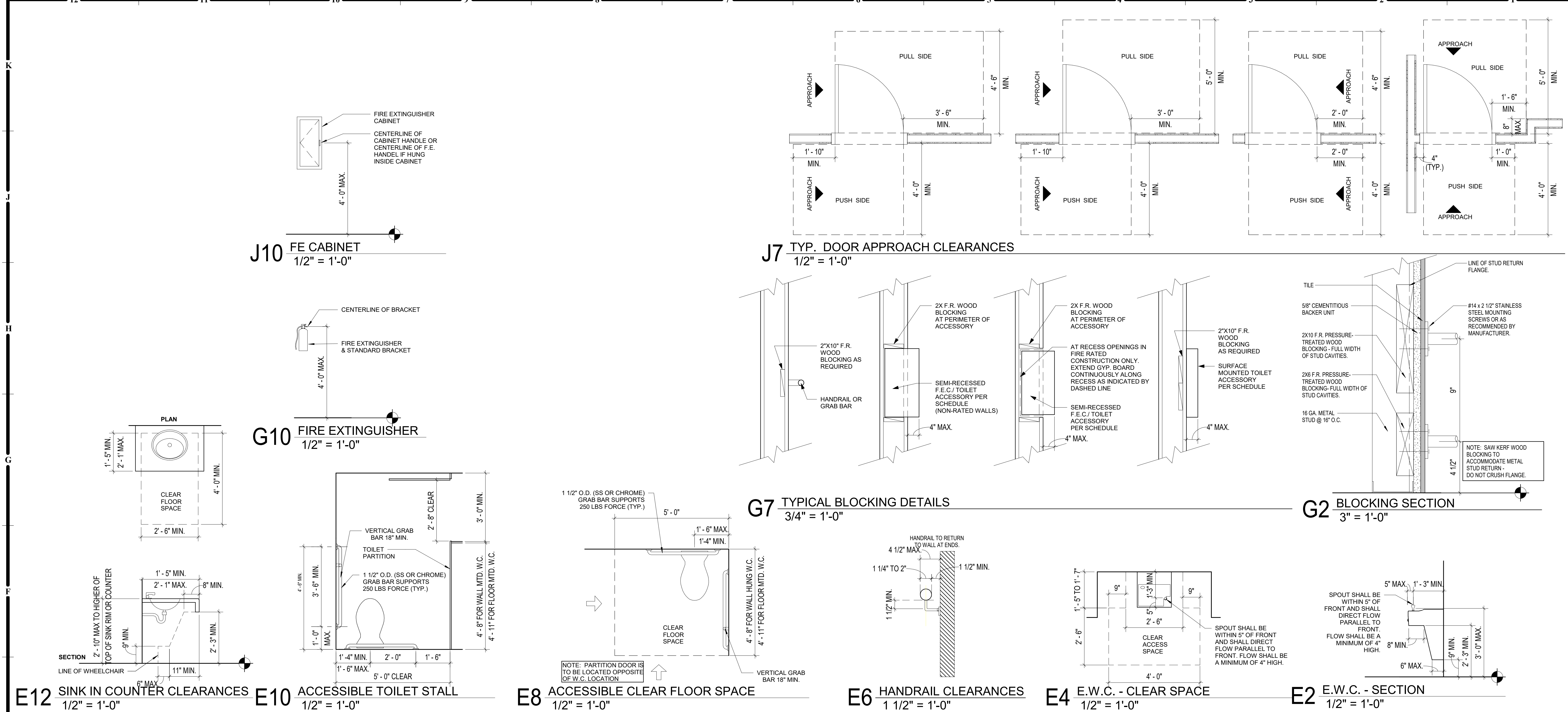
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REVISION DATES:



PROFESSIONAL SEAL
G102
ISSUE DATE: 03/27/2020
COLLINS WEBB #: 19026

LIFE SAFETY PLANS



GENERAL NOTES

ACCESSIBILITY GUIDELINES:

- NOTE: ALL DIMENSIONS ARE MEASURED FROM FLOOR, UNLESS NOTED OR SHOWN OTHERWISE.
- ADA UNOBSTRUCTED REACH RANGES: ADA FORWARD REACH = 48" MAX. & 15" MIN. ADA SIDE REACH = 48" MAX. & 15" MIN.
- ELEVATORS: STANDARD CALL BUTTONS: 36" TO 48" TO C.L. & PROTRUDE 1" MAX. ADA CALL BUTTONS: 42" TO C.L. (TYP.) & 48" MAX. (3/4" SMALLEST DIM.). ADA VISIBLE SIGNALS: 72" MIN. TO C.L. (2 1/2" SMALLEST DIM.). TACTILE SIGNAL ON HOSTWAY: 60" TO BASE OF CHARACTERISTICS W/ TACTILE STAR & 2" HIGH CHARACTERS.
- DOOR HARDWARE (TO CENTER OF HARDWARE): STANDARD MOUNTING HEIGHTS: PUSH PLATES = 42". PULL HANDLES = 42". KNOBS/LEVERS = 40". PANIC EXIT = 42". CENTERLINE OF BAR, KICKPLATES: WIDTH = DOOR WIDTH MINUS 2". CENTER HEIGHT = 18" FROM B.O. DOOR THRESHOLDS: STANDARD = 1/2" MAX. AT EXT. SLIDING DOORS = 3/4" MAX. ADA HARDWARE = 34" MIN. TO 48" MAX. DRINKING FOUNTAINS & ENDS (TO SPOUT): STANDARD = 40" TYP. 42" MAX. ADA = 38" MAX. (27" MIN. CLEAR KNEE SPACE).
- COUNTERTOPS (TO SINK RIM/COUNTERTOP): ADA = 28" MIN. TO 34" MAX.
- WATER CLOSETS (TO TOP OF SEAT): STANDARD = 14" TO 15" ADA (TO TOP OF SEAT) = 17" TO 19". ADA FLUSH CONTROLS = 44" MAX.
- URINALS (TO RIM): STANDARD = 24" MAX. ADA = 17" MAX.
- ADJ. FLUSH CONTROLS: 44" MAX.
- LAVATORIES (TO SINK RIM/COUNTERTOP): STANDARD = 36" MAX. ADA = 34" MAX. (29" MIN. CLEAR KNEE SPACE).
- MIRRORS (TO B.O. REFLECTIVE SURFACE): STANDARD = VARIES. ADA = 40" MAX.
- GRAB BARS: ADA (TO TOP OF BAR): WATER CLOSETS = 33" MIN. TO 38" MAX. SHOWERS = 33" MIN. TO 38" MAX. (FROM B.O. SHOWER). BATHTUBS: TOP BAR = 33" MIN. TO 36" MAX. BOY: BAR = 9" ABOVE T.O. TUB.
- SHOWER HEADS (FROM FLOOR TO HEAD): STANDARD = 72" TO 84". ADA = SPRAY UNIT W/ HOSE 60" LONG MIN. ADA = FIXED SHOWER HEAD = 48" AFF.
- SHOWER CONTROLS (TO CONTROL AREA): STANDARD = 48" MAX. (TO TOP). ADA = 38" MIN. TO 48" MAX.
- SHOWER ROD (FROM FLOOR TO C.L.): STANDARD = 78" MAX.
- TOILET ROOM PARTITIONS: TOILETS = 12" TO BOT. & 70" TO TOP. URINALS = 18" TO BOT. & 60" TO TOP.
- TOILET PAPER DISPENSERS (TO C.L. OF OUTLET): STANDARD = 24". ADA = 19" MIN. TO 24" MAX.
- WALL MOUNTED SOAP DISPENSERS (TO C.L. OF PUSH BUTTON): STANDARD = 40". ADA = VARIES RE OBSTRUCTED AND UNOBSTRUCTED REACH RANGES. ADA SIDE REACH = 40" MAX. ABOVE SINK IN COUNTER.
- PAPER TOWEL DISPENSER/WASTE RECEPTACLE (TO TOWEL SLOT): STANDARD = 40" MAX. ADA FORWARD REACH = 48" MAX. & 15" MIN. ADA SIDE REACH = 48" MAX. & 15" MIN.
- WARM AIR HAND DRYER (TO PUSH SWITCH): STANDARD = 44" MAX. ADA FORWARD REACH = 48" MAX. & 15" MIN. ADA SIDE REACH = 48" MAX. & 15" MIN.
- STANDARD = 48" MAX. & 15" MIN. ADA SIDE REACH = 48" MAX. & 15" MIN.
- STANDARD NAPKIN DISPENSER (TO C.L. OF COIN SLOT): STANDARD = 40" MAX. ADA FORWARD REACH = 48" MAX. & 15" MIN. ADA SIDE REACH = 48" MAX. & 15" MIN.
- TOILET SEAT COVER DISPENSERS (TO OPNG.): STANDARD = 40" MAX. ADA FORWARD REACH = 48" MAX. & 15" MIN. ADA SIDE REACH = 48" MAX. & 15" MIN.
- SHelves: ADA = 48" MAX.
- COAT HOOKS: STANDARD = 68". ADA = 48" MAX.
- CHALKBOARDS, TACKBOARDS & MARKERBOARDS: STANDARD = 52" TO 36" (TO B.O. BOARD OR CHALKTRAY). STANDARD = 80" (RECOMMENDED TO T.O. BOARD).
- THERMOSTATS & CONTROL DEVICES (TO TOP): ADA FORWARD REACH = 48" MAX. ADA SIDE REACH = 48" MAX. LIGHT SWITCHES & CARD READERS (TO C.L.): LOCATE 6" FROM DOOR JAMB. ADA = 48" MAX.
- CONVENIENCE RECEPTACLES - ELECTRICAL/TELEPHONE/ DATA (TO C.L.): STANDARD = 18". ADA = 15" MIN.
- EXT. LIGHTS - WALL MOUNTED: 2" MIN. BELOW CEILING. 2" MIN. ABOVE DOOR FRAME. EQUAL SPACE FROM CEILING TO TOP OF FRAME.
- FIRE EXTINGUISHERS (TO TOP UNO. Q.): GROSS WT. 40 LBS. OR LESS = 60" MAX. GROSS WT. MORE THAN 40 LBS = 42" MAX. ADA = 40" MAX. (B.O. CABINET).
- FIRE ALARM PULL STATIONS (TO LEVER): STANDARD = 48" MAX. ADA FORWARD REACH = 48" MAX. ADA SIDE REACH = 48" MAX.
- SMOKE AND/OR HEAT DETECTORS: STANDARD = CEILING HEIGHT.
- HORN/ SPEAKER/ VISUAL SIGNALS: STANDARD = 80" AFF. OR 8" BELOW CEILING - WHICHEVER IS LOWER.
- ROOM SIGNAGE (TO C.L.): STANDARD = 60" HIGH AFF. & WITHIN 18" OF LATCH SIDE OF DOOR.

MISCELLANEOUS ACCESSORY TYPICAL MOUNTING HEIGHTS												TOILET ACCESSORY TYPICAL MOUNTING HEIGHTS											
FINISH FLOOR	ACCESSORY TYPE	COMMENTS	FINISH FLOOR	ACCESSORY TYPE	COMMENTS	FINISH FLOOR	ACCESSORY TYPE	COMMENTS	FINISH FLOOR	ACCESSORY TYPE	COMMENTS	FINISH FLOOR	ACCESSORY TYPE	COMMENTS	FINISH FLOOR	ACCESSORY TYPE	COMMENTS	FINISH FLOOR	ACCESSORY TYPE	COMMENTS	FINISH FLOOR	ACCESSORY TYPE	COMMENTS
	FIRE EXTINGUISHER	SEMI RECESSED		PAPER TOWEL DISPENSER	SURFACE MOUNTED		SHOWER MIXING VALVE	WALL MOUNTED		SHOWER MIXING VALVE	WALL MOUNTED		SHOWER MIXING VALVE	WALL MOUNTED		SHOWER MIXING VALVE	WALL MOUNTED		SHOWER MIXING VALVE	WALL MOUNTED		SHOWER MIXING VALVE	WALL MOUNTED
	MANUAL FIRE PULL	SURFACE MOUNTED		POWER HAND DRYER	SURFACE MOUNTED		SHOWER HEAD	WALL MOUNTED		SHOWER HEAD	WALL MOUNTED		SHOWER HEAD	WALL MOUNTED		SHOWER HEAD	WALL MOUNTED		SHOWER HEAD	WALL MOUNTED		SHOWER HEAD	WALL MOUNTED
	FIRE STROBELIGHT/AUDIBLE ALARM	SURFACE MOUNTED		PAPER TOWEL DISPENSER & TRASH RECEPTACLE	RECESSED		HAND HELD SHOWER	WALL MOUNTED		HAND HELD SHOWER	WALL MOUNTED		HAND HELD SHOWER	WALL MOUNTED		HAND HELD SHOWER	WALL MOUNTED		HAND HELD SHOWER	WALL MOUNTED		HAND HELD SHOWER	WALL MOUNTED
	WALL MOUNTED EXIT SIGN	WALL MOUNTED		TOILET TISSUE DISPENSER	SURFACE MOUNTED		LAVATORY	WALL MOUNTED		LAVATORY	WALL MOUNTED		LAVATORY	WALL MOUNTED		LAVATORY	WALL MOUNTED		LAVATORY	WALL MOUNTED		LAVATORY	WALL MOUNTED
	WALL MOUNTED HANDRAIL	SURFACE MOUNTED		SANITARY NAPKIN DISPOSAL	RECESSED & SURFACE		LAVATORY	COUNTER MOUNTED		LAVATORY	COUNTER MOUNTED		LAVATORY	COUNTER MOUNTED		LAVATORY	COUNTER MOUNTED		LAVATORY	COUNTER MOUNTED		LAVATORY	COUNTER MOUNTED
	WALL CLOCK	SURFACE MOUNTED		SANITARY NAPKIN DISPENSER	SURFACE MOUNTED		CHILDRENS DRINKING FOUNTAIN	WALL MOUNTED		CHILDRENS DRINKING FOUNTAIN	WALL MOUNTED		CHILDRENS DRINKING FOUNTAIN	WALL MOUNTED		CHILDRENS DRINKING FOUNTAIN	WALL MOUNTED		CHILDRENS DRINKING FOUNTAIN	WALL MOUNTED		CHILDRENS DRINKING FOUNTAIN	WALL MOUNTED
	FABRIC COVERED TACK BOARD	SURFACE MOUNTED		FRAMED VANITY MIRROR	SURFACE MOUNTED		SINGLE DRINKING FOUNTAIN	WALL MOUNTED		SINGLE DRINKING FOUNTAIN	WALL MOUNTED		SINGLE DRINKING FOUNTAIN	WALL MOUNTED		SINGLE DRINKING FOUNTAIN	WALL MOUNTED		SINGLE DRINKING FOUNTAIN	WALL MOUNTED		SINGLE DRINKING FOUNTAIN	WALL MOUNTED
	MARKER BOARD	SURFACE MOUNTED		DIAPER CHANGING STATION	SURFACE MOUNTED		DOUBLE DRINKING FOUNTAIN	WALL MOUNTED		DOUBLE DRINKING FOUNTAIN	WALL MOUNTED		DOUBLE DRINKING FOUNTAIN	WALL MOUNTED		DOUBLE DRINKING FOUNTAIN	WALL MOUNTED		DOUBLE DRINKING FOUNTAIN	WALL MOUNTED		DOUBLE DRINKING FOUNTAIN	WALL MOUNTED
	MOP & BROOM HOLDER	SURFACE MOUNTED		SOAP DISPENSER	COUNTERTOP MOUNTED		TOILET	WALL/FLOOR MOUNTED		TOILET	WALL/FLOOR MOUNTED		TOILET	WALL/FLOOR MOUNTED		TOILET	WALL/FLOOR MOUNTED		TOILET	WALL/FLOOR MOUNTED		TOILET	WALL/FLOOR MOUNTED
	ROBE HOOK	SURFACE MOUNTED		FOLDING SHOWER SEAT	SURFACE MOUNTED		URINAL	WALL MOUNTED		URINAL	WALL MOUNTED		URINAL	WALL MOUNTED		URINAL	WALL MOUNTED		URINAL	WALL MOUNTED		URINAL	WALL MOUNTED
	ELAPSED TIME CLOCK	SURFACE MOUNTED		TOILET PARTITION	WALL MOUNTED																		
	SOAP DISPENSER	SURFACE MOUNTED		URINAL SCREEN	WALL MOUNTED																		
	PAPER TOWEL DISPENSER	SURFACE MOUNTED																					
	ALCOHOL DISPENSER	SURFACE MOUNTED																					



collins webb ARCHITECTURE

3RD STREET DISPENSARY

510 SW 3rd St., Lee's Summit, MO 64063

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REVISION DATES:

PROFESSIONAL SEAL

ISSUE DATE: 03/27/2020

COLLINS WEBB #: 19026

ACCESSIBILITY GUIDELINES

SPECIFICATIONS

GENERAL REQUIREMENTS APPLICABLE TO ALL MATERIALS FOR THE PROJECT:

- 1. NO SUBSTITUTIONS OF MATERIALS WITHOUT COMPLETION OF A SUBSTITUTION REQUEST FORM & APPROVAL OF SUBSTITUTION BY BOTH ARCHITECT & OWNER PROJECT MANAGER. FORM CAN BE REQUESTED FROM ARCHITECT.
- 2. A CONDENSED SET OF SPECIFICATIONS ARE PROVIDED FOR THE PROJECT. STRICT ADHERANCE TO MANUFACTURER REQUIREMENTS AND INSTALLATION ARE REQUIRED TO BE FOLLOWED WITH SECTIONS PROVIDED WITHIN. IF REQUIRED THE ARCHITECT WILL ISSUE ADDITIONAL SECTIONS TO PROVIDE CLARITY TO PRODUCTS OR INSTALLATION REQUIREMENTS.

ROUGH CARPENTRY

- 1. PROVIDE SUFFICIENT FIRE RETARDANT TREATED WOOD BLOCKING AT ALL STUDS FOR SECURING OF WALL & CEILING ITEMS, WHETHER FURNISHED BY OWNER OR CONTRACTOR.
- 2. CONCEALED WOOD IS TO BE FIRE RETARDANT TREATED UNLESS NOTED OTHERWISE.
- 3. PRESERVATIVE TREATED LUMBER IS REQUIRED FOR ALL ITEMS TO REMAIN IN CONTACT WITH CONCRETE OR MASONRY TO CONFORM TO AWPA STANDARD 5.
- 4. PLYWOOD SHALL BE GRAB GRADE OR YELLOW PINE. ALL PLYWOOD TO BE FIRE RATED.
- 5. BLOCKING SHALL BE CLOSELY FITTED, ACCURATELY SET TO REQUIRED LINES & LEVELS, SECURELY CONNECTED & RIGIDLY FIXED IN PLACE. UPGRADES, SCREWS, & OR BOLTS AS INDICATED OR REQUIRED BY GOOD PRACTICE AND MANUFACTURERS RECOMMENDATIONS.

FINISH CARPENTRY

- 1. WOOD TRIM SHALL BE POPLAR FOR PAINTED FINISH.
- 2. INSTALL TRIM WORK STRAIGHT & TRUE IN ALIGNMENT & RIGIDLY FASTEN IN PLACE. FIELD VERIFY ALL DIMENSIONS. COORDINATE WHERE BLOCKING OR BACKING IS REQUIRED.
- 3. MAKE ALL JOINTS TO CONCEAL SHRINKAGE. MITER ALL EXTERIOR CORNERS. COPE ALL INTERIOR CORNERS & SCARF ALL END-TO-END JOINTS. INSTALL PIECES AS LONG AS POSSIBLE TO MINIMIZE JOINTS. JOINTING ONLY WHERE SOLID SUPPORT IS OBTAINED.
- 4. INSURE SET ALL FASTENERS, FILL, CLEAN & SAND AS REQUIRED FOR PAINT OR STAIN FINISH.

INSULATION

- 1. PROVIDE INSULATION AS SHOWN IN WALL TYPES.
- 2. PROVIDE 6 INCH BATT INSULATION OVER THE TOP OF STRUCTURAL FRAMING, CONTINUOUS, AS REQUIRED TO MAINTAIN AN INSULATION BARRIER. MINERAL FIBER BATT INSULATION. FLEXIBLE OR SEMIRIGID PREFORMED BATT OR BLANKET, COMPLYING WITH ASTM D665 FRICTION FT, UNFACED FLAME SPREAD INDEX OF 0 (ZERO) WHEN TESTED IN ACCORDANCE WITH ASTM E84.
- 3. FLAME SPREAD INDEX: 25 OR LESS, WHEN TESTED IN ACCORDANCE WITH ASTM E84.

SEALANTS

- 1. ACCEPTABLE MANUFACTURERS ARE BOSTIK OR EQUAL & APPROVED.
- 2. ACRYLIC LATEX CAULK AT INTERIOR TRIM SHALL BE ASTM D3361 PAINTABLE TYPE.
- 3. PROVIDE PRIMERS, JOINT BACKING & OTHER ACCESSORIES AS REQUIRED, & RECOMMENDED BY THE MANUFACTURER.
- 4. EXTERIOR SURFACE PER SEALANT MANUFACTURER'S RECOMMENDATIONS. APPLY WITH SUFFICIENT PRESSURE TO FILL ALL VOIDS & FINISH JOINTS TO BE SLIGHTLY CONVEX & WEATHER TIGHT.
- 5. CAULK OR SEAL ALL JOINTS BETWEEN DISSIMILAR MATERIALS.

SEALANT APPLICATIONS BY TYPE:

- 1. INTERIOR JOINTS: USE NON-SAG POLYURETHANE SEALANT, UNLESS OTHERWISE INDICATED.
- 2. WALL AND CEILING JOINTS IN NON-WET AREAS: ACRYLIC EMULSION LATEX SEALANT.
- 3. WALL AND CEILING JOINTS IN WET AREAS: NON-SAG POLYURETHANE SEALANT FOR CONTINUOUS LIQUID IMMERSION.
- 4. IN SOUND-RATED ASSEMBLIES: USE ONE OF THE FOLLOWING SEALANTS:
 - A. TREMCO® ACOUSTICAL CURTAIN WALL SEALANT
 - B. PECORA AIS-919

ACCESS LADDERS

- 1. PROVIDE IN COMPLIANCE WITH ANSI A14.3 WITH MOUNTING BRACKETS AND ATTACHMENTS. PRIME / PAINT FINISH.
- 2. SIDE RAILS 3/8" X 2" MEMBERS SPACED AT 20 INCHES.
- 3. RUNG: ONE INCH DIAMETER SOLID ROUND OR BUSH SPACED 12 INCHES ON CENTER.
- 4. SPACE RUNGS 7 INCHES FROM WALL SURFACE.
- 5. PROVIDE SHOP DRAWINGS INDICATING SIZE, CONNECTION ATTACHMENTS, ANCHORAGE AND DETAILS.

WOOD DOORS

- DOORS: REFER TO DRAWINGS FOR LOCATIONS AND ADDITIONAL REQUIREMENTS.
- 1. QUALITY STANDARD: CUSTOM GRADE, HEAVY DUTY PERFORMANCE, IN ACCORDANCE WITH AWI/AIA/MACWI (AWS), AWI/MACWI (NAWS) OR WDMA IS 1A.
- 2. WOOD VENEER FACED DOORS: 5/8" UNLESS OTHERWISE INDICATED.
- 3. HIGH PRESSURE DECORATIVE LAMINATE (HPDL) FACED DOORS: 5/8" UNLESS OTHERWISE INDICATED.
- 4. WHERE PLASTIC LAMINATE (PLM) IS INDICATED ON DOOR SCHEDULE, USE EITHER HIGH PRESSURE DECORATIVE LAMINATE (HPDL) FACED DOORS IN COMPLIANCE WITH AWI/AIA/MACWI (AWS), AWI/MACWI (NAWS) OR WDMA IS 1A, OR LOW PRESSURE DECORATIVE LAMINATE (LPDL) FACED DOORS IN COMPLIANCE WITH WDMA IS 1A.

DOOR AND PANEL CORES

- 1. NON-RATED SOLID CORE AND 20 MINUTE RATED DOORS: TYPE PARTICLEBOARD CORE (PC), PILES AND FACES AS INDICATED.
- 2. FIRE-RATED DOORS: MINERAL CORE TYPE, WITH FIRE RESISTANT COMPOSITE CORE (FD), PILES AND FACES AS INDICATED ABOVE, WITH CORE BLOCKING AS REQUIRED TO PROVIDE ADEQUATE ANCHORAGE OF HARDWARE WITHOUT THROUGH DRILLING.
- 3. SOUND-RATED DOORS: EQUIVALENT TO TYPE, WITH PARTICLEBOARD CORE (PC) CONSTRUCTION AS REQUIRED TO ACHIEVE STC RATINGS SPECIFIED, PILES AND FACES AS INDICATED ABOVE.

DOOR FACINGS

- 1. VENEER FACING FOR TRANSPARENT FINISH: MAPLE, VENEER GRADE IN ACCORDANCE WITH QUALITY STANDARD INDICATED, PLAIN SLICED (FLAT CUT), WITH BOOK MATCH BETWEEN LEAVES OF VENEER, RUNNING MATCH OF SPLICED VENEER LEAVES ASSEMBLED ON DOOR OR PANEL FACE.
- 2. TRANSOM: CONTINUOUS MATCH TO DOORS.
- 3. HIGH PRESSURE DECORATIVE LAMINATE (HPDL) FACING FOR FIRE DOORS: NEMA LD 3, SGF _____, TEXTURED, LOW GLOSS FINISH.
- 4. HIGH PRESSURE DECORATIVE LAMINATE (HPDL) FACING FOR NON-FIRE-RATED DOORS: NEMA LD 3, HGS, COLOR(S) AS INDICATED, TEXTURED, LOW GLOSS FINISH.

DOOR CONSTRUCTION

- 1. FABRICATE DOORS IN ACCORDANCE WITH DOOR QUALITY STANDARD SPECIFIED.
- 2. CORES CONSTRUCTED WITH STILES AND RAILS.
- 3. FACTORY MACHINE DOORS FOR HARDWARE OTHER THAN SURFACE-MOUNTED HARDWARE, IN ACCORDANCE WITH HARDWARE REQUIREMENTS AND DIMENSIONS.
- 4. FACTORY FIT DOORS FOR FRAME OPENING DIMENSIONS IDENTIFIED ON SHOP DRAWINGS, WITH EDGE CLEARANCES IN ACCORDANCE WITH SPECIFIED QUALITY STANDARD.
- 5. PROVIDE EDGE CLEARANCES IN ACCORDANCE WITH QUALITY STANDARD SPECIFIED.

INSTALLATION

- 1. INSTALL DOORS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND SPECIFIED QUALITY STANDARD.
- 2. INSTALL FIRE-RATED DOORS IN ACCORDANCE WITH NFPA 80 REQUIREMENTS.
- 3. INSTALL SMOKE AND DRAFT CONTROL DOORS IN ACCORDANCE WITH NFPA 105 REQUIREMENTS.
- 4. FACTORY FINISHED DOORS: DO NOT FIELD CUT OR TRIM IF FIT OR CLEARANCE IS NOT CORRECT, REPLACE DOOR.
- 5. USE MACHINE TOOLS TO CUT OR DRILL FOR HARDWARE.
- 6. COORDINATE INSTALLATION OF DOORS WITH INSTALLATION OF FRAMES AND HARDWARE.

FLOORING- COMMON WORK RESULTS

PREPARATION

- 1. COMPLY WITH REQUIREMENTS AND RECOMMENDATIONS OF FLOOR COVERING MANUFACTURER.
- 2. FILL AND SMOOTH SURFACE CRACKS, GROOVES, DEPRESSIONS, CONTROL JOINTS AND OTHER NON-MOVING JOINTS, AND OTHER IRREGULARITIES WITH PATCHING COMPOUND.
- 3. DO NOT FILL EXPANSION JOINTS, ISOLATION JOINTS, OR OTHER MOVING JOINTS.
- 4. CONCRETE SLAB PREPARATION:
 - A. PERFORM FOLLOWING OPERATIONS IN THE ORDER INDICATED:
 - A. EXISTING CONCRETE SLABS (ON-GRADE AND ELEVATED) WITH EXISTING FLOOR COVERINGS:
 - 1. VISUAL OBSERVATION OF EXISTING FLOOR COVERING, FOR ADHESION, WATER DAMAGE, ALKALINE DEPOSITS, AND OTHER DEFECTS.
 - 2. PROVIDE PRELIMINARY CLEANING PER MFR.
 - 3. INTERNAL RELATIVE HUMIDITY TESTS, IN SAME LOCATIONS AS MOISTURE VAPOR EMISSION TESTS, UNLESS OTHERWISE INDICATED.
 - 4. SPECIFIED REMEDIATION, IF REQUIRED.
 - 5. PATCHING, SMOOTHING, AND LEVELING, AS REQUIRED BY MFR.
 - 6. OTHER PREPARATION SPECIFIED BY MFR.
 - 7. PROVIDE ADHESIVE BOND AND COMPATIBILITY TEST.
 - 8. PROVIDE FLOOR PROTECTION.

CARPET TILE

FIELD CONDITIONS

- 1. STORE MATERIALS IN AREA OF INSTALLATION FOR MINIMUM PERIOD OF 24 HOURS PRIOR TO INSTALLATION.
- 2. SUB-FLOOR FILLER: WHITE PREMIX LATEX, TYPE RECOMMENDED BY FLOORING MATERIAL MANUFACTURER.
- 3. EDGE STRIPS: EMBOSSED ALUMINUM, COLOR AS SELECTED BY ARCHITECT.
- 4. ADHESIVES COMPATIBLE WITH MATERIALS BEING ADHERED

EXAMINATION

- 1. VERIFY THAT SUB-FLOOR SURFACES ARE SMOOTH AND FLAT WITHIN TOLERANCES SPECIFIED FOR THAT TYPE OF WORK AND ARE READY TO RECEIVE CARPET TILE.
- 2. CEMENTITIOUS SUB-FLOOR SURFACES: VERIFY THAT SUBSTRATES ARE DRY ENOUGH AND READY FOR FLOORING INSTALLATION BY TESTING FOR MOISTURE AND PH.
- 3. TEST IN ACCORDANCE WITH MANUFACTURER INSTRUCTIONS
- 4. OBTAIN INSTRUCTIONS IF TEST RESULTS ARE NOT WITHIN LIMITS RECOMMENDED BY FLOORING MATERIAL MANUFACTURER AND ADHESIVE MATERIALS MANUFACTURER.

PREPARATION

- 1. PREPARE FLOOR SUBSTRATES FOR INSTALLATION OF FLOORING IN ACCORDANCE WITH MANUFACTURER INSTRUCTIONS

INSTALLATION

- 1. STARTING INSTALLATION CONSTITUTES ACCEPTANCE OF SUB-FLOOR CONDITIONS.
- 2. INSTALL CARPET TILE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND OR 104 (COMMERCIAL).
- 3. BLEND CARPET FROM DIFFERENT CARTONS TO ENSURE MINIMAL VARIATION IN COLOR MATCH.
- 4. CUT CARPET TILE CLEAN. FIT CARPET TIGHT TO INTERSECTION WITH VERTICAL SURFACES WITHOUT GAPS.
- 5. LAY CARPET TILE IN SQUARE PATTERN, WITH PILE DIRECTION PARALLEL TO NEXT UNIT, SET PARALLEL TO BUILDING LINES.
- 6. LOCATE CHANGE OF COLOR OR PATTERN BETWEEN ROOMS UNDER DOOR CENTERLINE.
- 7. FULLY ADHERE CARPET TILE TO SUBSTRATE.
- 8. TRIM CARPET TILE NEATLY AT WALLS AND AROUND INTERRUPTIONS.
- 9. COMPLETE INSTALLATION OF EDGE STRIPS, CONCEALING EXPOSED EDGES.

TILING

PREPARATION

- FOLLOW ALL MANUFACTURER RECOMMENTION FOR PREPARING EXISTING SUB-FLOORING AND INSTALLATION PROTECTIONS.
- 1. PROTECT SURROUNDING WORK FROM DAMAGE.
- 2. JACOUM CLEAN SURFACES AND DAMP CLEAN.
- 3. SEAL SUBSTRATE SURFACE CRACKS WITH FILLER. LEVEL EXISTING SUBSTRATE SURFACES TO ACCEPTABLE FLATNESS TOLERANCES.
- 4. INSTALL GACKER BOARD IN ACCORDANCE WITH ANSI A108.1 AND BOARD MANUFACTURER'S INSTRUCTIONS.
- 5. TAPE JOINTS AND CORNERS, COVER WITH SKIM COAT OF SETTING MATERIAL TO A FEATHER EDGE.

INSTALLATION - GENERAL

- 1. INSTALL TILE, THRESHOLDS, AND STAIR TREADS AND GROUT IN ACCORDANCE WITH APPLICABLE REQUIREMENTS OF ANSI A108.1A THROUGH ANSI A108.13, MANUFACTURER'S INSTRUCTIONS, AND TCNA (HB) RECOMMENDATIONS.
- 2. LAY TILE TO PATTERN INDICATED. DO NOT INTERRUPT TILE PATTERN THROUGH OPENINGS.
- 3. CUT AND FIT TILE TO PENETRATIONS THROUGH TILE, LEAVING SEALANT JOINT SPACE. FORM CORNERS AND BASES NEATLY. ALIGN FLOOR JOINTS.
- 4. PLACE TILE JOINTS UNIFORM IN WIDTH. SUBJECT TO VARIANCE IN TOLERANCE ALLOWED IN TILE SIZE. MAKE GROUT JOINTS WITHOUT VOIDS, CRACKS, EXCESS MORTAR OR EXCESS GROUT, OR TOO LITTLE GROUT.
- 5. FORM INTERNAL ANGLES SQUARE AND EXTERNAL ANGLES ROUNDED.
- 6. INSTALL CERAMIC ACCESSORIES RIGIDLY IN PREPARED OPENINGS.
- 7. INSTALL NON-CERAMIC TRIM IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- 8. INSTALL THRESHOLDS UNDER INDICATED.
- 9. SOUND TILE AFTER SETTING. REPLACE HOLLOW SOUNDING UNITS.
- 10. KEEP CONTROL AND EXPANSION JOINTS FREE OF MORTAR, GROUT, AND ADHESIVE.
- 11. PRIOR TO GROUTING, ALLOW INSTALLATION TO COMPLETELY CURE. MINIMUM OF 48 HOURS.
- 12. GROUT TILE JOINTS UNLESS OTHERWISE INDICATED. USE STANDARD GROUT UNLESS OTHERWISE INDICATED.
- 13. AT CHANGES IN PLANE AND TILE-TO-TILE CONTROL JOINTS, USE TILE SEALANT INSTEAD OF GROUT, WITH EITHER BOND BREAKER TAPE OR GROUT ROD AS APPROPRIATE TO PREVENT THREE-SIDED BONDING.

RESILIENT FLOORING- LVT

PREPARATION

- 1. PREPARE FLOOR SUBSTRATES AS RECOMMENDED BY FLOORING AND ADHESIVE MANUFACTURERS.
- 2. REMOVE SUB-FLOOR RIDGES AND BUMPS. FILL MINOR LOW SPOTS, CRACKS, JOINTS, HOLES, AND OTHER DEFECTS WITH SUB-FLOOR FILLER TO ACHIEVE SMOOTH, FLAT, HARD SURFACE.
- 3. PROHIBIT TRAFFIC UNTIL FILLER IS FULLY CURED.

INSTALLATION - GENERAL

- 1. STARTING INSTALLATION CONSTITUTES ACCEPTANCE OF SUB-FLOOR CONDITIONS.
- 2. INSTALL IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.
- 3. SPREAD ONLY ENOUGH ADHESIVE TO PERMIT INSTALLATION OF MATERIALS BEFORE INITIAL SET.
- 4. FIT JOINTS AND BUTT SEAMS TIGHTLY.
- 5. SET FLOORING IN PLACE, PRESS WITH HEAVY ROLLER TO ATTAIN FULL ADHESION.
- 6. WHERE TYPE OF FLOOR FINISH PATTERN, OR COLOR ARE DIFFERENT ON OPPOSITE SIDES OF DOOR, TERMINATE FLOORING UNDER CENTERLINE OF DOOR.
- 7. INSTALL EDGE STRIPS AT UNPROTECTED OR EXPOSED EDGES, WHERE FLOORING TERMINATES, AND WHERE INDICATED.
- 8. SCRIBE FLOORING TO WALLS, COLUMNS, CABINETS, FLOOR OUTLETS, AND OTHER APPURTENANCES TO PRODUCE TIGHT JOINTS LUXURY VINYL TILE- LVT

FIELD CONDITIONS

- 1. STORE MATERIALS FOR NOT LESS THAN 48 HOURS PRIOR TO INSTALLATION IN AREA OF INSTALLATION AT A TEMPERATURE OF 70 DEGREES F TO ACHIEVE TEMPERATURE STABILITY. THEREAFTER MAINTAIN CONDITIONS ABOVE 55 DEGREES F.

ACCESSORIES

- 1. SUB-FLOOR FILLER: WHITE PREMIX LATEX, TYPE RECOMMENDED BY ADHESIVE MATERIAL MANUFACTURER.
- 2. PRIMERS, ADHESIVES, AND SEAM SEALER: WATERPROOF, TYPES RECOMMENDED BY FLOORING MANUFACTURER.
- 3. MOLDINGS, TRANSITION AND EDGE STRIPS: SAME MATERIAL AS FLOORING.

EXAMINATION

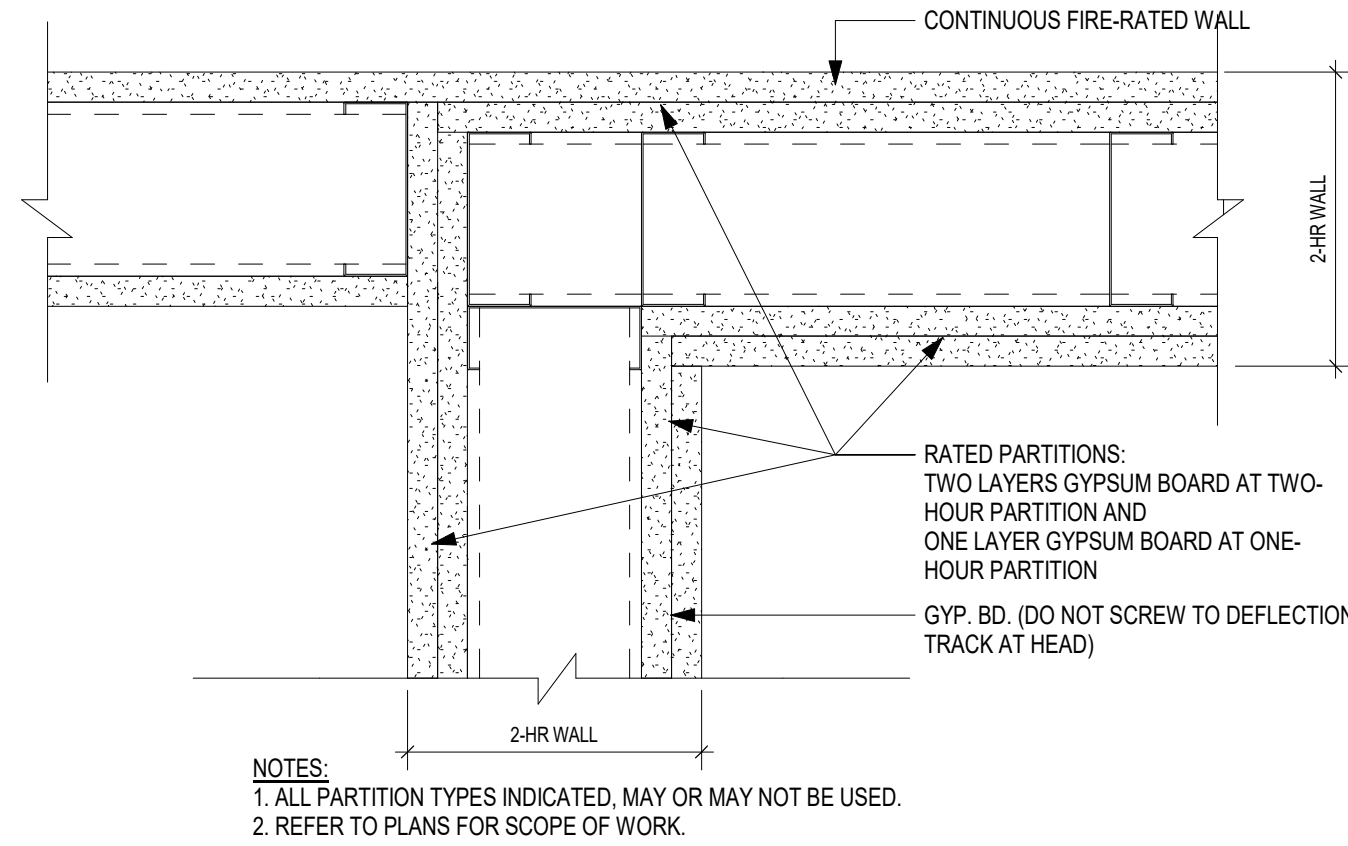
- 1. VERIFY THAT SURFACES ARE FLAT TO TOLERANCES ACCEPTABLE TO FLOORING MANUFACTURER, FREE OF CRACKS THAT MIGHT TELEGRAPH THROUGH FLOORING, CLEAN, DRY, AND FREE OF CURING COMPOUNDS, SURFACE HARDENERS, AND OTHER CHEMICALS THAT MIGHT INTERFERE WITH BONDING OF FLOORING TO SUBSTRATE.
- 2. VERIFY THAT WALL SURFACES ARE SMOOTH AND FLAT WITHIN THE TOLERANCES SPECIFIED FOR THAT TYPE OF WORK, ARE DUST-FREE, AND ARE READY TO RECEIVE RESILIENT BASE.
- 3. CEMENTITIOUS SUB-FLOOR SURFACES: VERIFY THAT SUBSTRATES ARE DRY ENOUGH AND READY FOR RESILIENT FLOORING INSTALLATION BY TESTING FOR MOISTURE AND PH.
- 4. OBTAIN INSTRUCTIONS IF TEST RESULTS ARE NOT WITHIN LIMITS RECOMMENDED BY RESILIENT FLOORING MANUFACTURER AND ADHESIVE MATERIALS MANUFACTURER.

PAINTING

- 1. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PATCHING OF ALL NAIL HOLES, CRACKS ETC., PRIOR TO FINAL PAINTING.
- 2. WORK INCLUDES PREPARATION OF SURFACES FOR PAINTING, FINISHING & THE APPLICATION OF PAINT & FINISH PRODUCTS ON ALL SURFACES WHICH ARE NOT FACTORY FINISHED.
- 3. ALL SURFACES MUST BE DRY, FREE FROM GREASE, OIL, MILDEW & GROUT; SANDED SMOOTH & FREE FROM LOOSE DIRT, DUST OR GROUT.
- 5. ALL COATS TO BE TINTED TOWARDS FINAL COLOR, MINIMUM 3 COATS. GYPSUM BOARD PRIMERS TO BE FACTORY FORMULATED LATEX BASED FOR INTERIOR APPLICATION, SW PREPRITE 200, B20W200 SERIES OR EQUAL.
- 6. GLOSS PRIMERS TO BE FACTORY FORMULATED ALKID OR ACRYLIC BASED FOR INTERIOR APPLICATION, SW PREPRITE WOOD, B49W200 OR EQUAL FOR ACRYLIC ENAMEL & SEMI-GLOSS FINISHES.
- 7. FERROUS METAL PRIMERS TO BE FACTORY FORMULATED QUICK DRYING RUST INHIBITIVE ALKID BASED, SW KERN KRONIK UNIVERSAL METAL PRIMER, B50ZB50Z1 OR EQUAL.
- 8. GYPSUM BOARD CEILINGS & SOFFITS FINISH COAT TO BE FACTORY FORMULATED FLAT ACRYLIC LATEX, SW PROMAR 200 INTERIOR, B30W200 SERIES OR EQUAL.
- 9. GYPSUM BOARD WALLS FINISH COAT TO BE FACTORY FORMULATED SATIN ACRYLIC LATEX, SW B20W200 SERIES OR EQUAL.
- 10. WOOD & METAL SURFACES FINISH COAT TO BE FACTORY FORMULATED FULL SATIN ALKID ENAMEL, SW PROMAR 200 INTERIOR B35W200 SERIES OR EQUAL.
- 12. PROVIDE LEFT OVER STOCK OF EACH FINISH COLOR.

GYPSUM BOARD BOARD

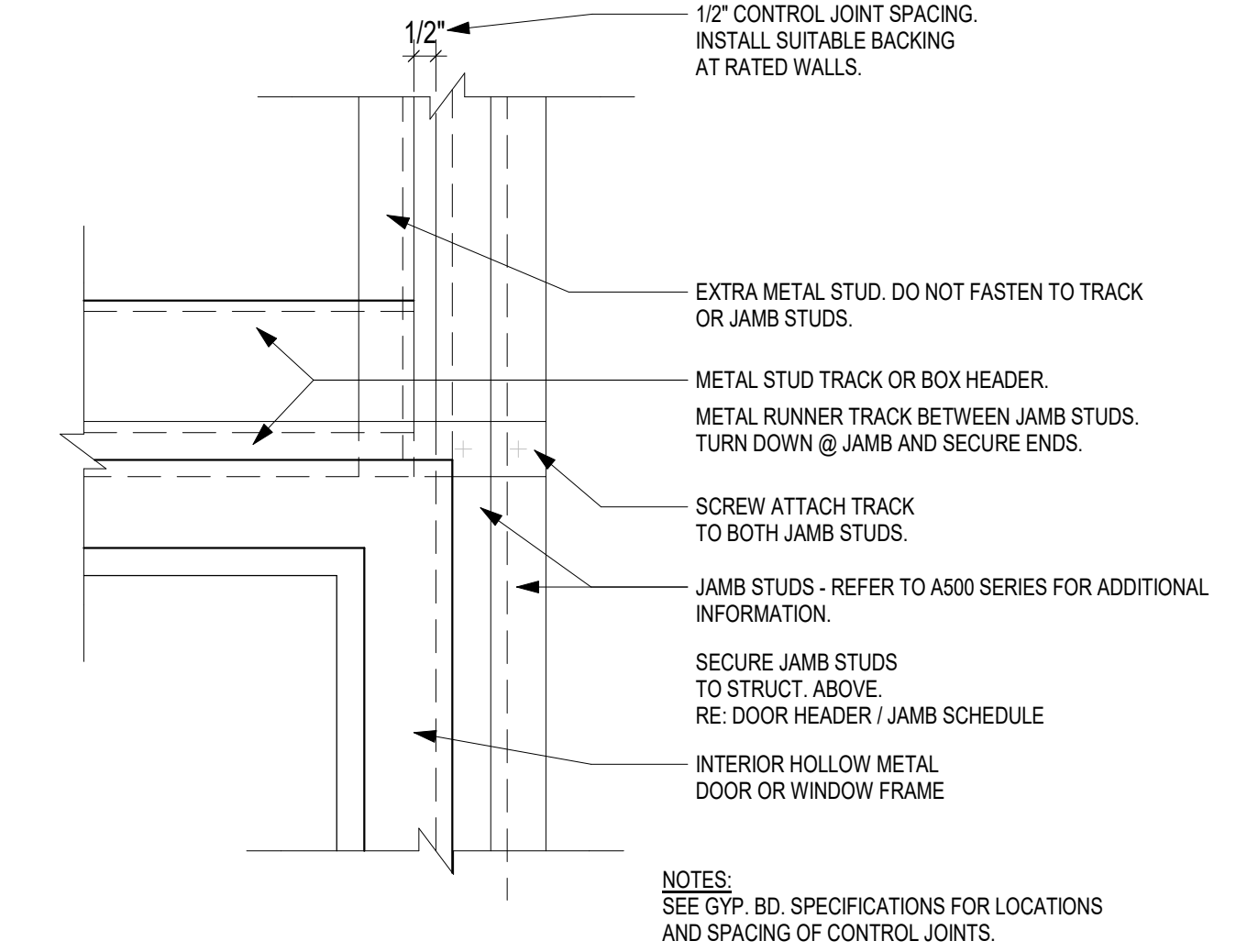
- 1. PROVIDE & INSTALL METAL STUD WALL SYSTEMS IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS & THE GYPSUM CONSTRUCTION HANDBOOK AS PUBLISHED BY USG.
- 2. METAL STUDS, DETRICH OR EQUAL, REFERENCE DRAWINGS FOR STUD TYPES, PER ASTM S25, G-90.
- 3. FURRING CHANNELS, REFERENCE DRAWINGS FOR CHANNEL TYPES USG OR EQUAL.
- 4. FASTENERS SHALL BE USG BUGLE HEAD SCREWS.
- 5. JOINT TREATMENT SHALL BE: - FILLER/USG READY-MIXED JOINT COMPOUND
- 6. TAPE/USG READY-MIXED JOINT COMPOUND
- 7. PAPER FACED METAL TRIM TO MEET ASTM C1047.
- 8. CORNER BEADS-USG BEAD-X INSE & OUTSIDE CORNERS
- 9. CASING BEADS-USG BEAD-X TRIMS
- 10. ALL EXTERIOR CORNERS SHALL RECEIVE CORNER BEADS, & EXPOSED EDGES (AT END OF NEW DRYWALL WORK) SHALL RECEIVE CASING BEADS TAPED IN WITH THE JOINT TREATMENT SYSTEM.
- 11. WALLS TO RECEIVE WALL COVERING SHALL BE BEDDED, TAPED & SANDED TO PROVIDE A SMOOTH, CONTINUOUS SURFACE & PRIMED AS RECOMMENDED BY WALL COVERING MANUFACTURER.
- 12. REMOVE ALL WORK AFTER PRIME COAT OF PAINT & CORRECT ANY VISIBLE JOINT OR FASTENER TREATMENT OR ROUGHNESS IN THE WORK.
- 13. FIRE TAPE, INNER LAYERS OF GYPSUM BOARD AT RATED WALLS, FINISH TAPE & SAND OUTSIDE LAYER OF GYPSUM BOARD THAT WILL RECEIVE PAINT VINYL, OR WALL CARPET.
- 14. ALL GYPSUM BOARD IS 5/8" TYPE "X" UNLESS NOTED OTHERWISE (UNO).
- 16. LISTED BELOW ARE TYP INNER LAYER GUIDELINES FOR JOINT FINISHING:
 - FACTORY EDGE TO FACTORY EDGE CONDITIONS DO NOT REQUIRE TO BE TAPED & FILLED IN LAYERS BELOW FINISH LAYER.
 - ANY CUT EDGES OR CORNERS ON INNER LAYERS WILL REQUIRE TO BE TAPED & FILLED TYP.
 - ANY GAPS OR BROKEN CORNERS MUST BE TAPED TYP.
- 17. REFERENCE DRAWING GENERAL NOTE FOR GYP. FINISH LEVELS.



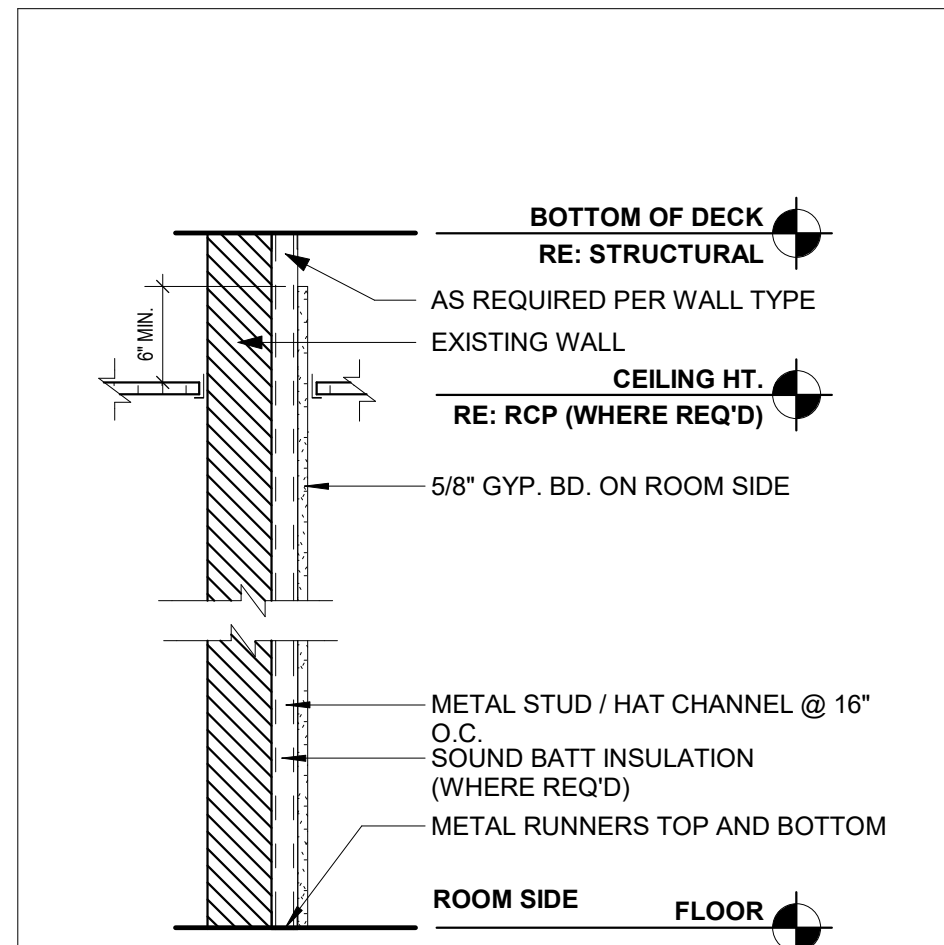
WALL PRIORITY LEGEND

24HR FIRE AND/OR SMOKE WALL	PRIORITY 1 (HIGHEST)
24HR FIRE WALL	PRIORITY 2
24HR SHAFR WALL	PRIORITY 2
24HR FIRE AND/OR SMOKE WALL	PRIORITY 3
1HR FIRE WALL	PRIORITY 4
NON-RATED WALL	PRIORITY 5 (LOWEST)

C6 WALL CONTINUITY LEGEND - PLAN VIEW
3" = 1'-0"

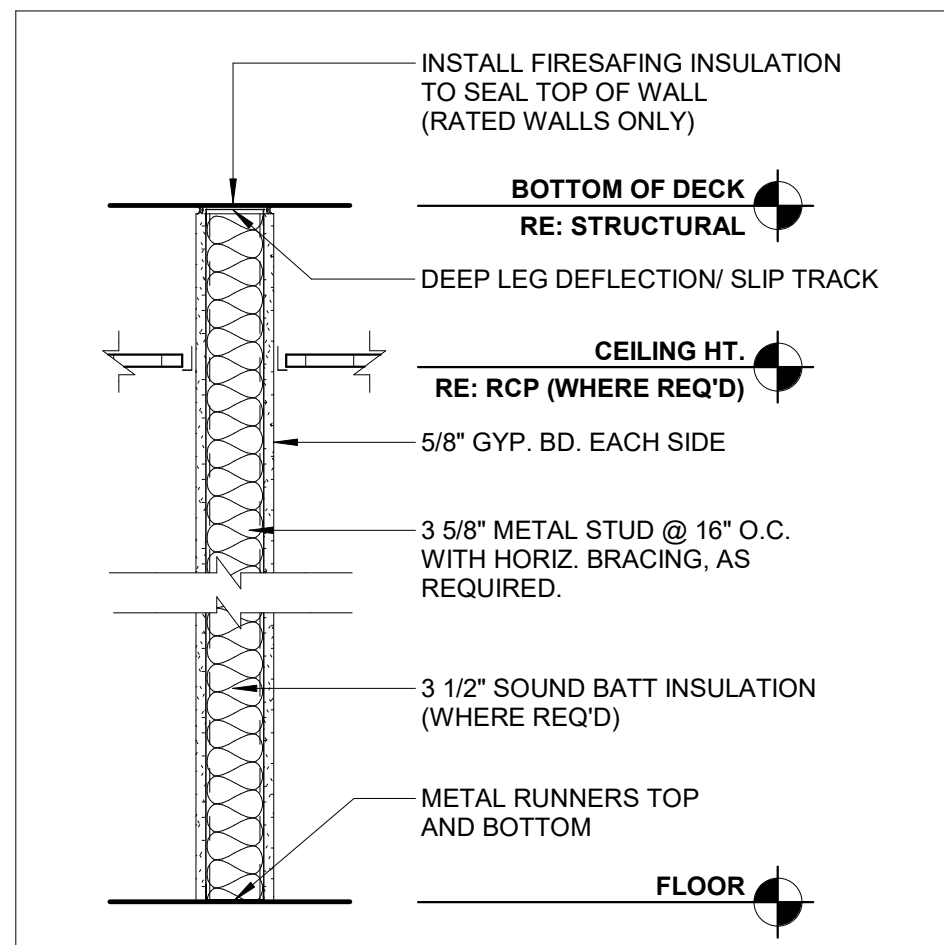


A6 CONTROL JOINT FRAMING AT OPENING
3" = 1'-0"



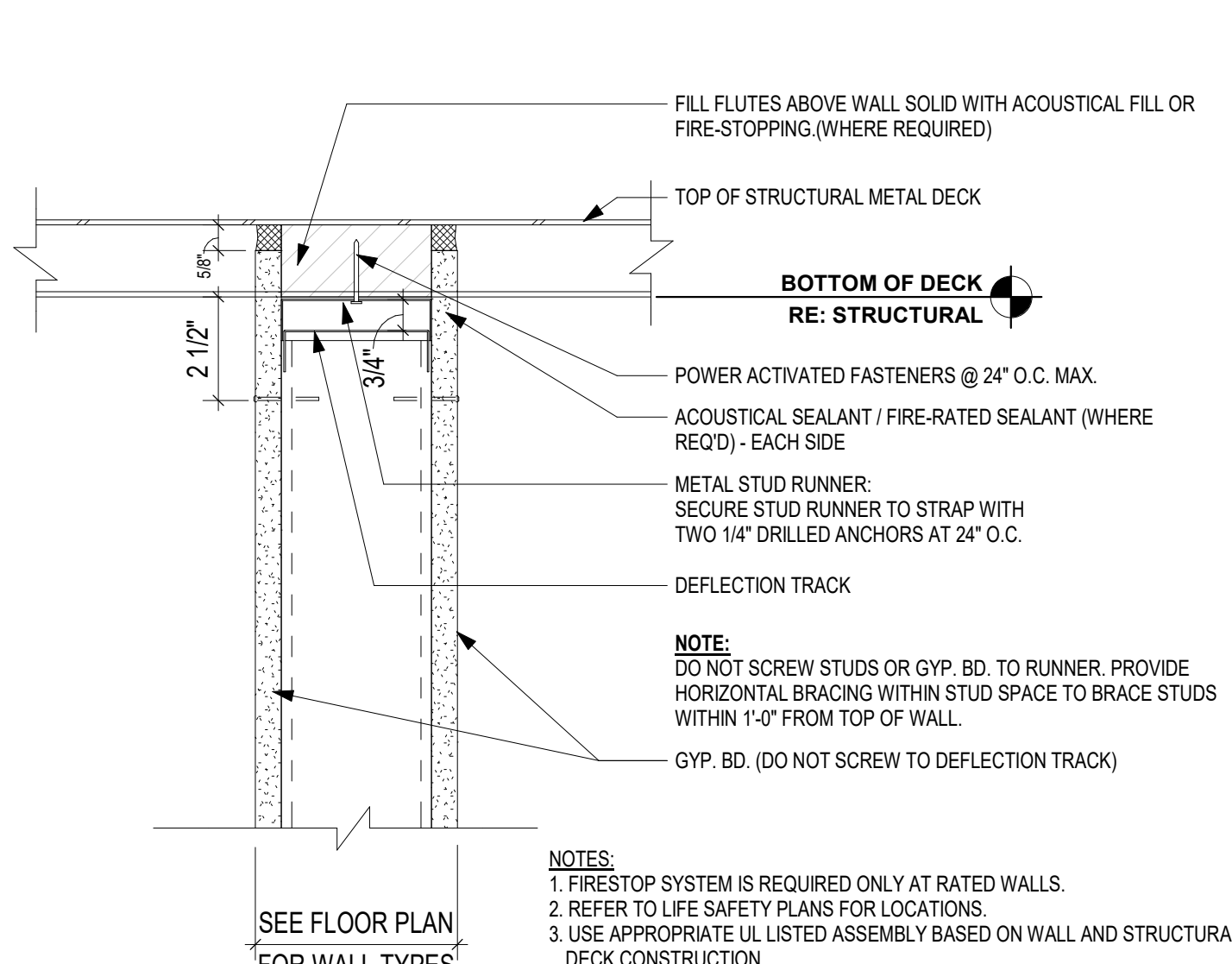
WALL TYPE E

TYPE	WALL DESCRIPTION
E	78" HAT CHANNEL @ 16" O.C. TO SCHEDULED HEIGHT 58" INTERIOR DENSARMOR PLUS ON ROOM SIDE 78" MIN. CLOSED CELL FOAM, FILL REMAINING CAVITY WITH OPEN CELL FOAM AS NEEDED NON RATED
E1	1 1/2" METAL STUD @ 16" O.C. TO SCHEDULED HEIGHT 58" INTERIOR DENSARMOR PLUS ON ROOM SIDE FOIL FACED BATT INSULATION @ 1/2" MIN. GAP CONTINUE FOIL AROUND STRIPS NON RATED
E2	3 5/8" METAL STUD @ 16" O.C. TO SCHEDULED HEIGHT 58" INTERIOR DENSARMOR PLUS ON ROOM SIDE 1 1/2" MIN. CLOSED CELL FOAM, FILL REMAINING CAVITY WITH OPEN CELL FOAM AS NEEDED NON RATED
E3	1 1/2" METAL STUD @ 16" O.C. TO SCHEDULED HEIGHT 58" INTERIOR DENSARMOR PLUS ON ROOM SIDE 1 1/2" MIN. CLOSED CELL FOAM, FILL REMAINING CAVITY WITH OPEN CELL FOAM AS NEEDED NON RATED

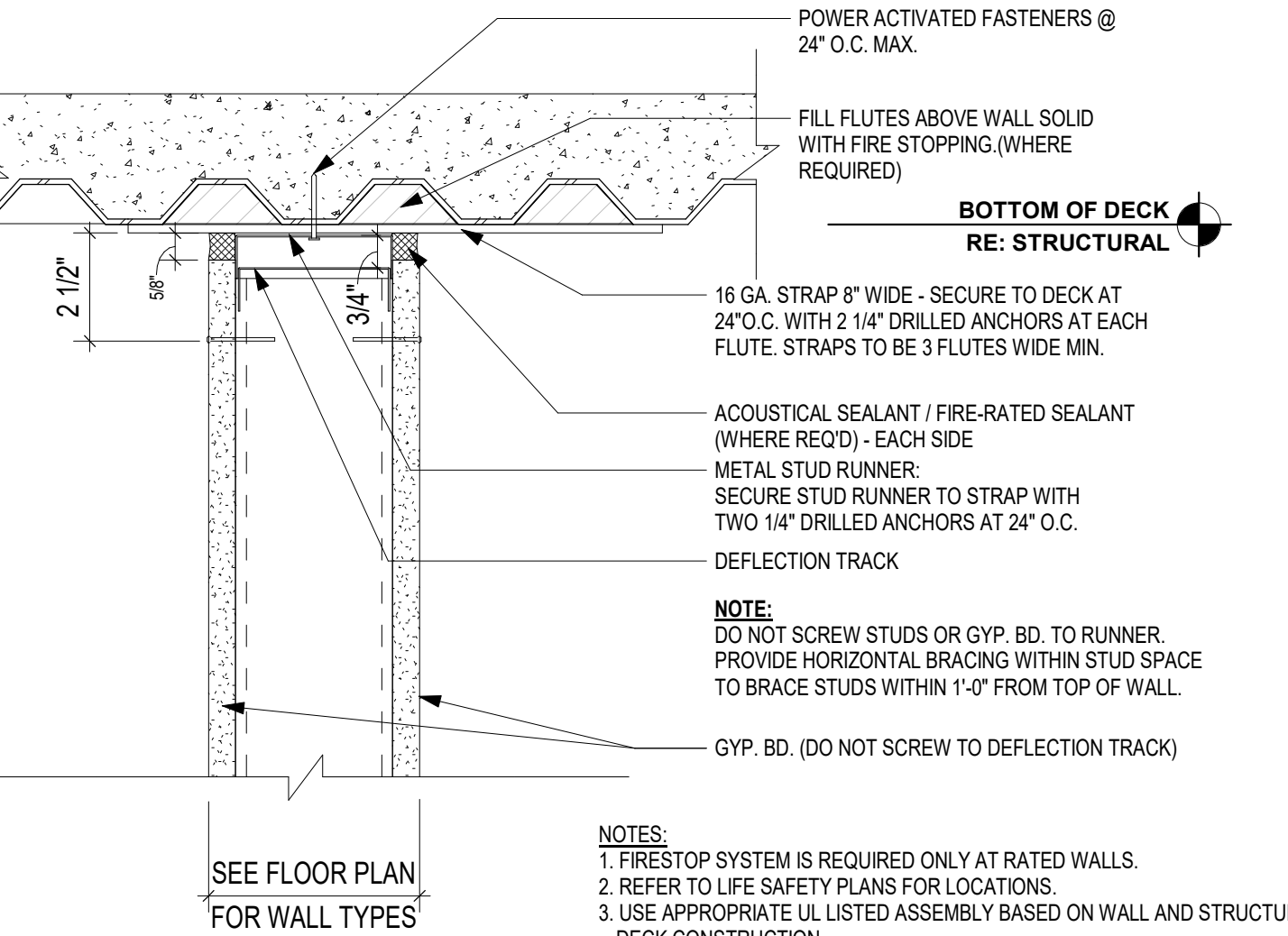


WALL TYPE A

TYPE	WALL DESCRIPTION
A	3 5/8" METAL STUD @ 16" O.C. TO DECK ABOVE 58" TYPE "X" GYP. BD. EACH SIDE NO SOUND BATT INSULATION NON RATED
A1	3 5/8" METAL STUD @ 16" O.C. TO DECK ABOVE 58" TYPE "X" GYP. BD. EACH SIDE NO SOUND BATT INSULATION NON RATED
A2	3 5/8" METAL STUD @ 16" O.C. TO DECK ABOVE 2 LAYERS 5/8" TYPE "X" GYP. BD. EACH SIDE NO SOUND BATT INSULATION NON RATED
A3	3 5/8" METAL STUD @ 16" O.C. TO DECK ABOVE 3 1/2" SOUND BATT INSULATION @ 1/2" MIN. GAP ACQUASTIC SEALANT @ 1/2" MIN. GAP NON RATED
A4	3 5/8" METAL STUD @ 16" O.C. TO DECK ABOVE 58" TYPE "X" GYP. BD. EACH SIDE 3 1/2" SOUND BATT INSULATION @ 1/2" MIN. GAP ACQUASTIC SEALANT @ 1/2" MIN. GAP NON RATED
A5	3 5/8" METAL STUD @ 16" O.C. TO DECK ABOVE 2 LAYERS 5/8" TYPE "X" GYP. BD. EACH SIDE 3 1/2" SOUND BATT INSULATION @ 1/2" MIN. GAP ACQUASTIC SEALANT @ 1/2" MIN. GAP NON RATED
A6	3 5/8" METAL STUD @ 16" O.C. TO DECK ABOVE 4 LAYERS 5/8" TYPE "X" GYP. BD. EACH SIDE NO SOUND BATT INSULATION NON RATED
A7	3 5/8" METAL STUD @ 16" O.C. TO DECK ABOVE 4 LAYERS 5/8" TYPE "X" GYP. BD. EACH SIDE NO SOUND BATT INSULATION NON RATED
A8	3 5/8" METAL STUD @ 16" O.C. TO DECK ABOVE 3 1/2" SOUND BATT INSULATION @ 1/2" MIN. GAP ACQUASTIC SEALANT @ 1/2" MIN. GAP NON RATED
A9	3 5/8" METAL STUD @ 16" O.C. TO DECK ABOVE 4 LAYERS 5/8" TYPE "X" GYP. BD. EACH SIDE 3 1/2" SOUND BATT INSULATION @ 1/2" MIN. GAP ACQUASTIC SEALANT @ 1/2" MIN. GAP NON RATED



C3 TOP OF WALL - PERP. TO METAL DECK
3" = 1'-0"



A3 TOP OF WALL - PARALLEL TO METAL DECK
3" = 1'-0"

WALL TYPE NOTES:

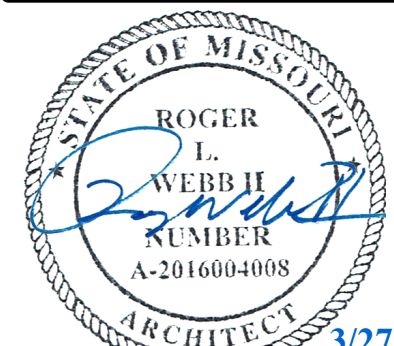
- 1. RE LIFE SAFETY PLAN(S) FOR RATED WALL LOCATIONS.
- 2. RE WALL TYPE DETAIL SHEET FOR TYPICAL WALL DETAILS AND ADDITIONAL WALL TYPE INFORMATION.
- 3. FOR TYPICAL TOP OF WALL CONDITIONS AT JOISTS AND BEAMS, REFER TO THE CLOSURE DETAILS ON THE WALL TYPE DETAILS SHEET.
- 4. COORDINATE METAL STUD GAUGE WITH PRE-APPROVED EQUIPMENT ANCHORAGE. WHERE A DISCREPANCY OCCURS, THE MORE STRINGENT REQUIREMENT SHALL GOVERN.
- 5. WHERE "ACOUSTIC SEALANT" IS INDICATED ON WALL TYPES, PROVIDE ACOUSTIC (SOUND) SEALANT ABOVE TOP TRACK, UNDER BOTTOM TRACK, AND AT ALL PENETRATIONS (BOTH SIDES).
- 6. WHERE "FIRE-RATED SEALANT" IS INDICATED ON WALL TYPES, PROVIDE FIRE-RATED SEALANT ABOVE TOP TRACK, UNDER BOTTOM TRACK, AT ALL PENETRATIONS (BOTH SIDES), AND AS REQUIRED BY FIRE RATING UL NUMBER.
- 7. EXTEND FIRE-RATED WALL CONSTRUCTION BEHIND RECESSED OR BUILT-IN EQUIPMENT, SUCH AS FIRE EXTINGUISHER CABINETS (FEC), ELECTRICAL WATER COOLERS (EWC), ELECTRICAL PANELS, ETC., UNLESS NOTED OTHERWISE.
- 8. PROVIDE AND INSTALL ALL STEENERS, BRACING, BACK-UP PLATES AND SUPPORTING BRACKETS REQUIRED FOR THE INSTALLATION OF ALL CASEWORK AND OF ALL FLOOR MOUNTED OR SUSPENDED MECHANICAL, ELECTRICAL OR LABORATORY EQUIPMENT.
- 9. WHERE HVAC OR OTHER MECHANICAL, ELECTRICAL AND PLUMBING ITEMS PENETRATE PARTITIONS, STUDS SHALL BE BRACED AND FRAMED TO STRUCTURE AS REQUIRED TO PROVIDE ADEQUATE SUPPORT. ALL PENETRATIONS THROUGH ACOUSTICAL AND FIRE RATED WALLS SHALL BE SEALED TO PROVIDE FIRE, SMOKE, AND/OR ACOUSTICAL ISOLATION OF SPACES WITH APPROPRIATE ACOUSTICAL/ FIRESTOP MATERIAL.
- 10. THERE SHALL BE NO BACK-TO-BACK ELECTRICAL, TELEPHONE, OR OTHER OUTLETS, EXCEPT WHERE SPECIFICALLY SHOWN.
- 11. WALL BASE IS NOT SHOWN ON ALL WALL TYPES FOR CLARITY. REFER TO FINISH SCHEDULE.
- 12. PROVIDE GLASS-MAT, WATER RESISTANT BACKING BOARD AT ALL WET LOCATIONS.
- 13. EXCEPT AT FIRE-RATED PARTITIONS, ALL WALL AND COLUMN GYPSUM BOARD FACING SHALL BE SHOWN AT 5/8 INCH BELOW STRUCTURE, UNLESS NOTED OR SHOWN OTHERWISE.
- 14. PROVIDE AND INSTALL BLOCKING REQUIRED FOR ALL A.V. EQUIPMENT, G.C. TO COORDINATE WITH IT, CONSULTANT FOR FINAL LOCATIONS AND SIZE REQUIREMENTS.
- 15. COMPRESSIBLE FILLER- ACCEPTABLE MATERIALS WOULD BE FIBERGLASS INSULATION OR FIRESTOPPING VOIDS TO BE COMPLETELY FILLED AND A FIRESTOP SEALANT OVER ANY ENDS. THIS IS TYPICAL FOR ALL ACOUSTICAL WALL ASSEMBLIES WHERE "COMPRESSIBLE FILLER" IS CALLED FOR. THERE CAN BE NO VOIDS IN THE INSTALLATION.
- 16. MUD AND TAPE ALL 1ST AND 2ND LAYER GYP. BOARD JOINTS. PROVIDE 3RD LAYER FINISH PER GENERAL NOTES.
- 17. PROVIDE A MIN. MSG-12 STUD FOR ALL VERTICAL LONG SPAN WALL TYPES.
- 18. PROVIDE HORIZONTAL LATERAL BRACING WIRE WELDED TO STUD FOR ALL WALLS, AT APPROPRIATE GAGE AND SPACING SPECIFIED BY SUPPLIER.
- 19. PROVIDE ACOUSTICAL ISOLATION BRACKET AND/OR ACOUSTICAL ISOLATION MAT AT ALL ACOUSTICAL WALLS BRACED BACK OR INTERRUPTED BY STRUCTURE. SEE TYPICAL DETAIL THIS SHEET. CONTRACTOR TO COORDINATE WITH STRUCTURAL DWGS FOR TYP. CONDITIONS/ LOCATIONS.
- 20. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND SPECIFICATIONS - CONTACT ARCHITECT FOR CLARIFICATION.
- 21. FOR BIDDING PURPOSES, THE MOST EXPENSIVE AND/OR STRICTEST REQUIREMENTS SHALL GOVERN FOR CLARIFICATIONS DURING CONSTRUCTION. THE MOST EXPENSIVE AND/OR STRICTEST REQUIREMENTS, AS INDICATED BY THE ARCHITECT, SHALL GOVERN.
- 22. BACK TO BACK ACOUSTICAL WALLS MAY NOT BE BRIDGED, BRACED OR RIGIDLY TIED TOGETHER WITHOUT AN APPROVED ISOLATION SYSTEM.

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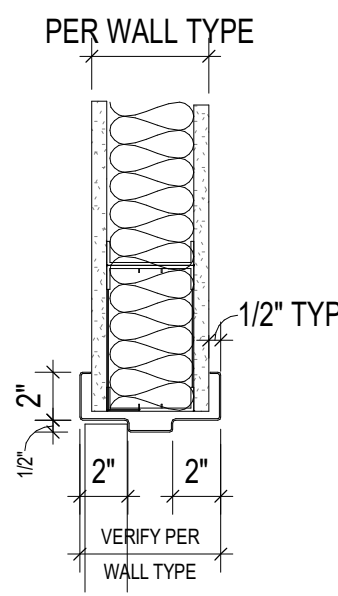
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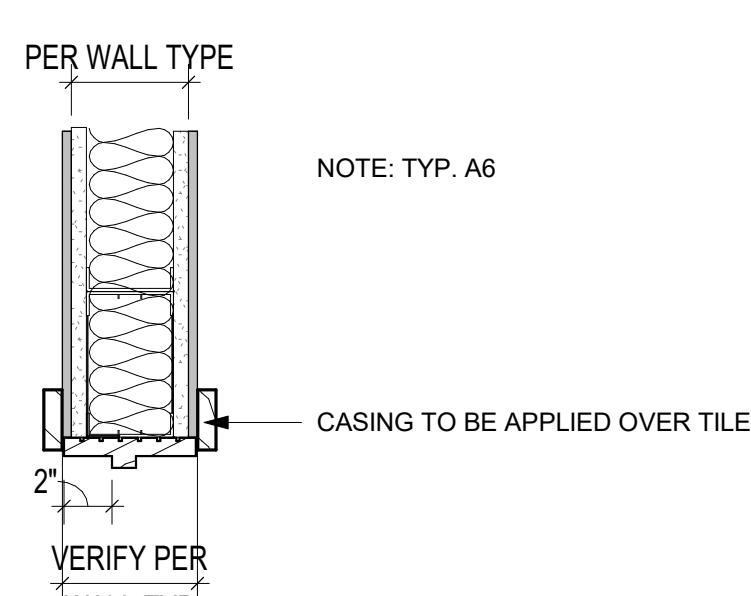
ISSUE DATE: 03/27/2020
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WALL TYPES & SPECIFICATIONS

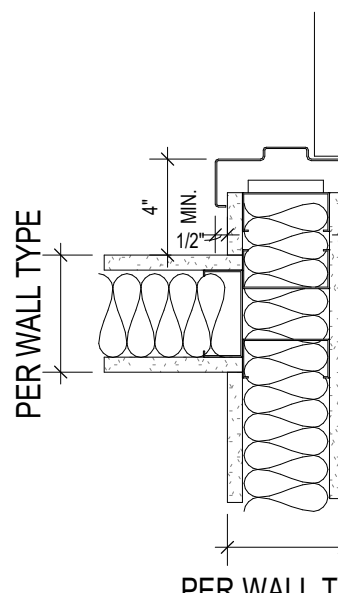
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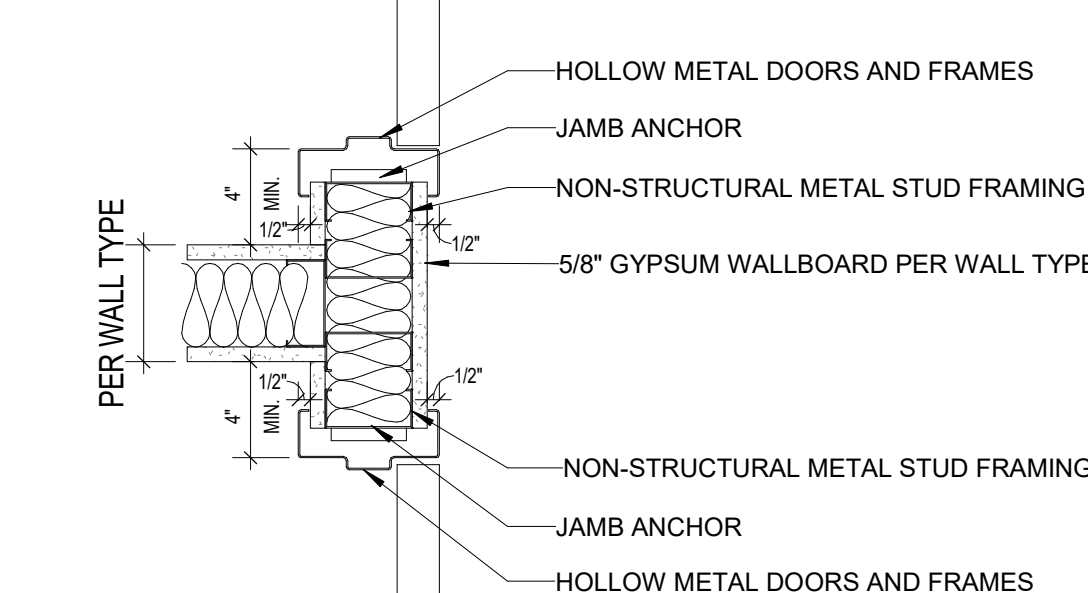
J11 DOOR DETAIL - HM HEAD
1 1/2" = 1'-0"



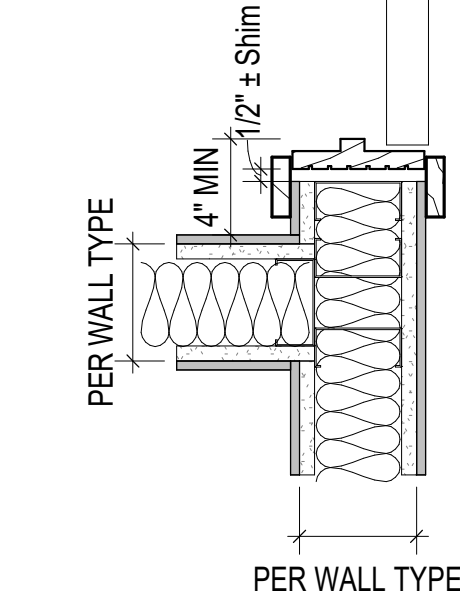
J10 DOOR DETAIL - WD HEAD
1 1/2" = 1'-0"



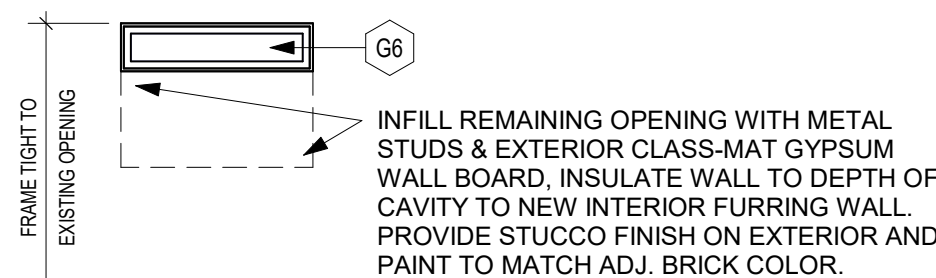
G11 DOOR DETAIL - HM JAMB
1 1/2" = 1'-0"



G10 DOOR DETAIL - HM JAMB - DOUBLE
1 1/2" = 1'-0"



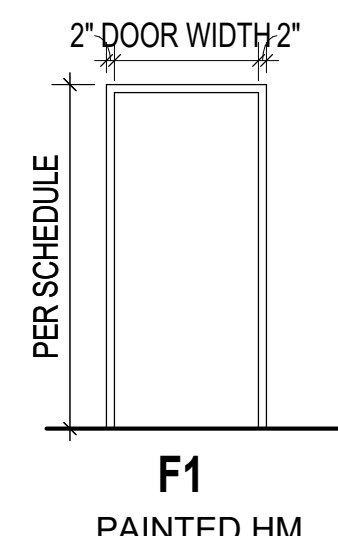
J8 DOOR DETAIL - WD JAMB
1 1/2" = 1'-0"



NOTE:
1. PROVIDE PRIVACY WINDOW FILM: 3M FASARA FABRIC/ WASHI SH2PTK
2. REFER TO GLASS SCHEDULE FOR GLAZING.

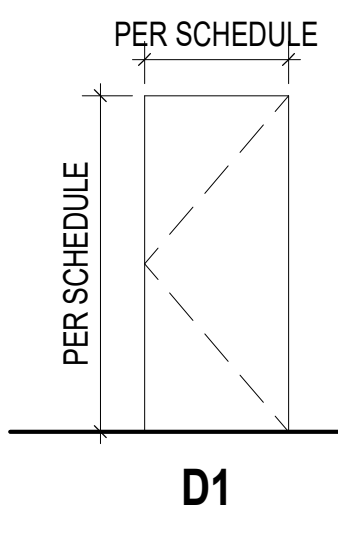
WINDOW TYPE ELEVATIONS

1/4" = 1'-0"



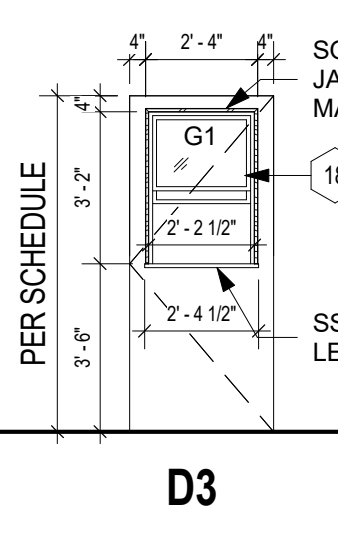
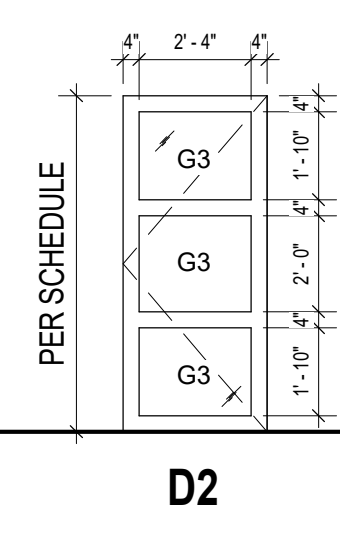
FRAME TYPES

1/4" = 1'-0"



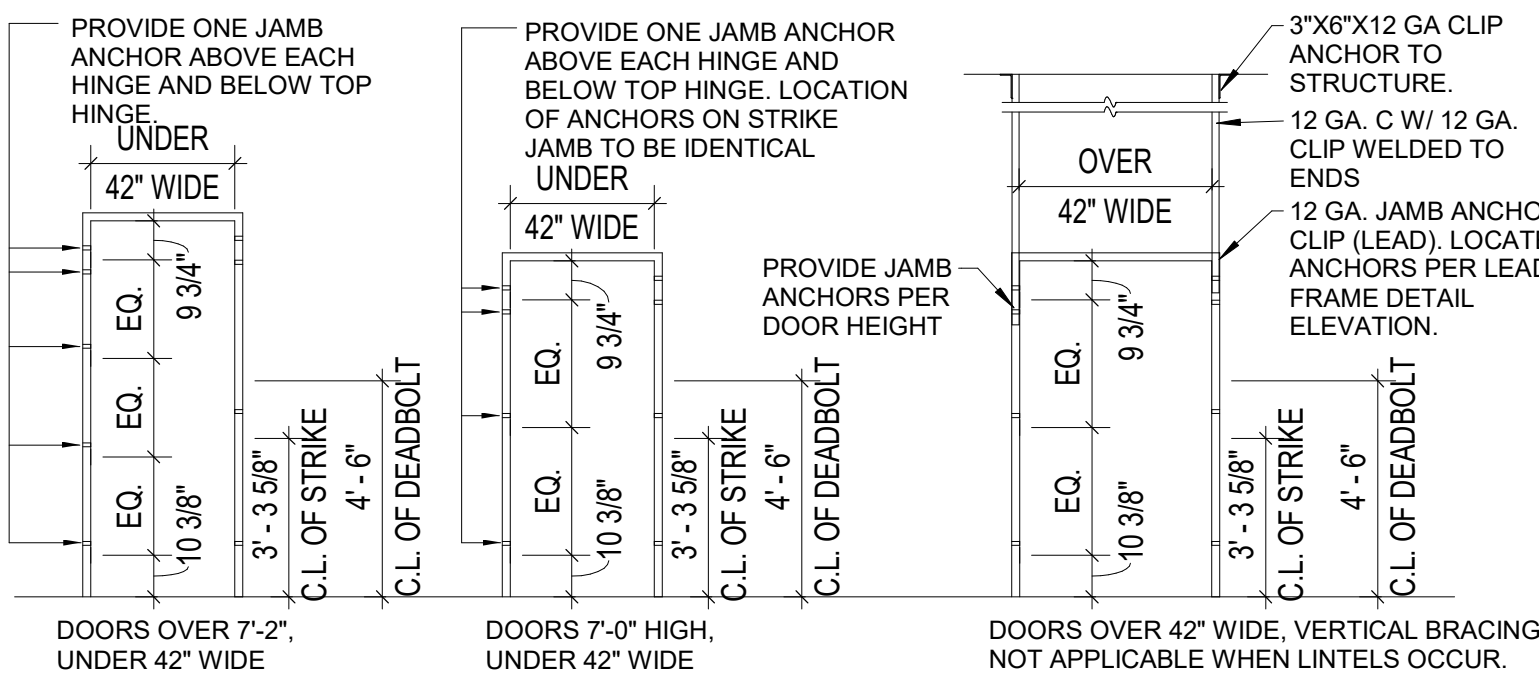
DOOR TYPE ELEVATIONS

1/4" = 1'-0"

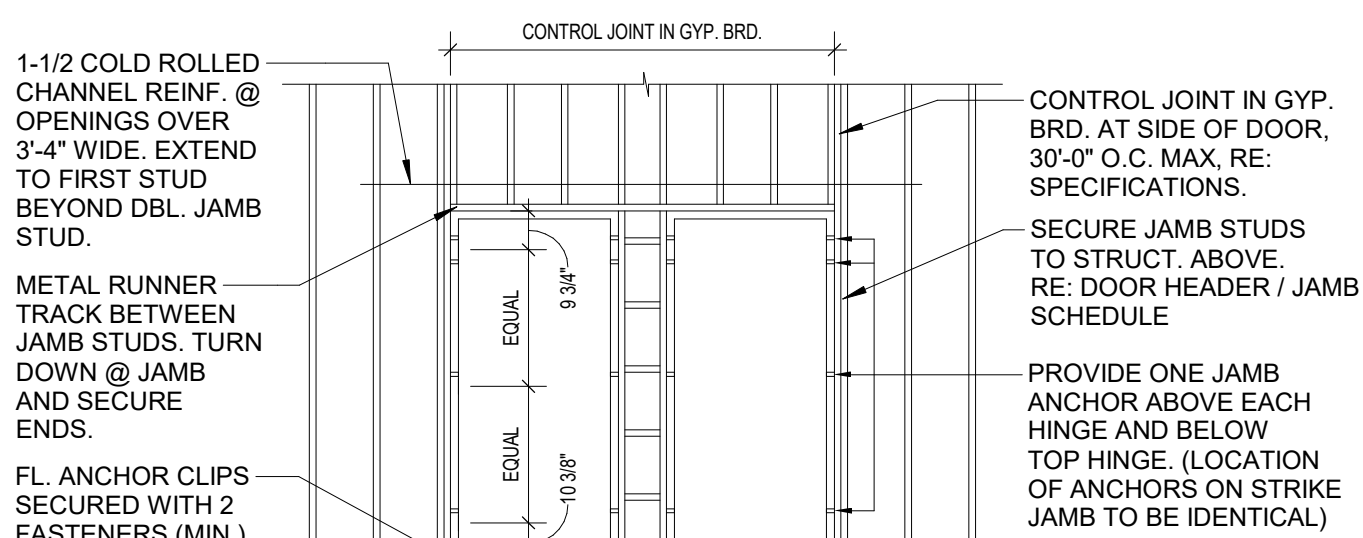


NOTE:
1. DOORS TO BE 1 3/4" THICK, UNLESS NOTED OTHERWISE ON DOOR SCHEDULE.
2. REFER TO GLASS SCHEDULE FOR GLAZING.
3. D3 - CENTER WINDOW IN DOOR DEPTH, PROVIDE 1/4" WOOD JAMB PROJECTION PAST WINDOW FRAME OR THE DOOR, WHICHEVER IS GREATER IN DEPTH.

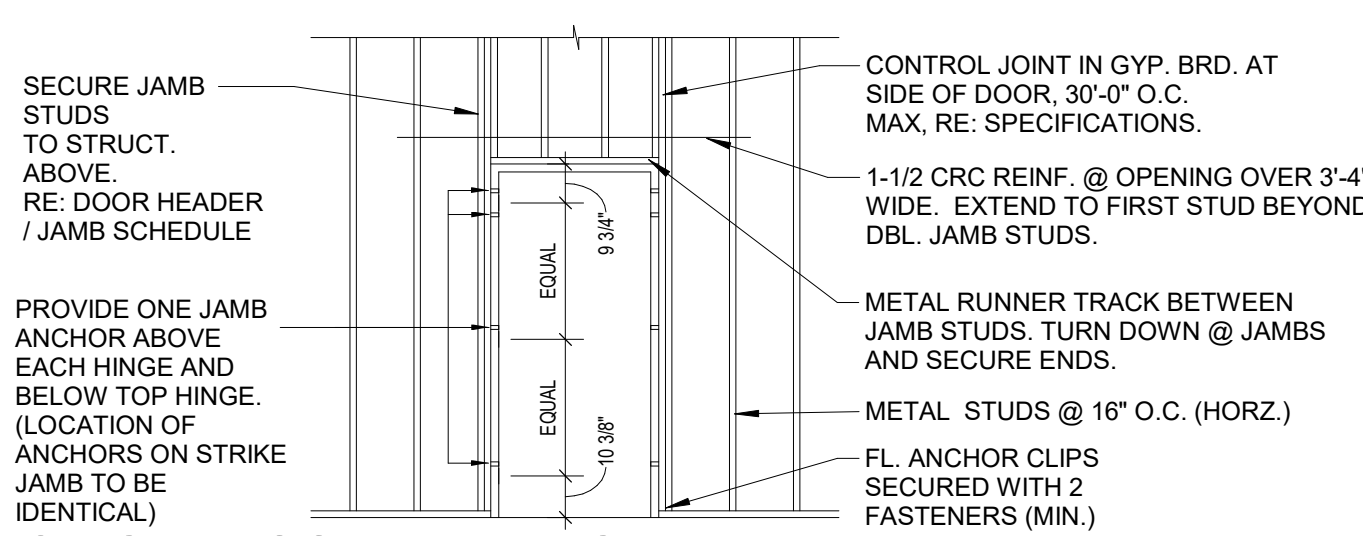
E11 DOOR DETAIL - WD JAMB - DOUBLE
1 1/2" = 1'-0"



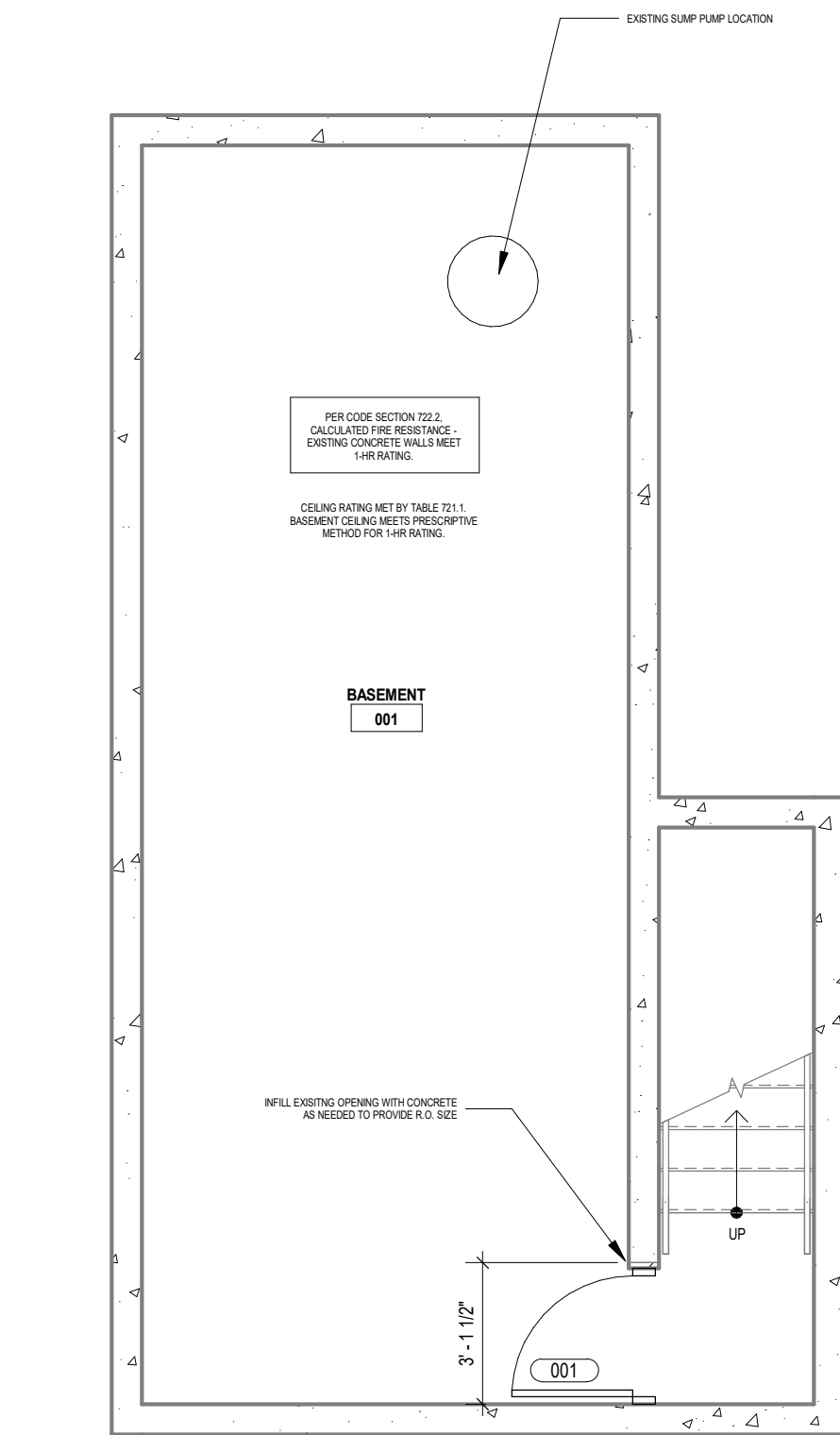
D11 FRAMING DETAILS
1/4" = 1'-0"



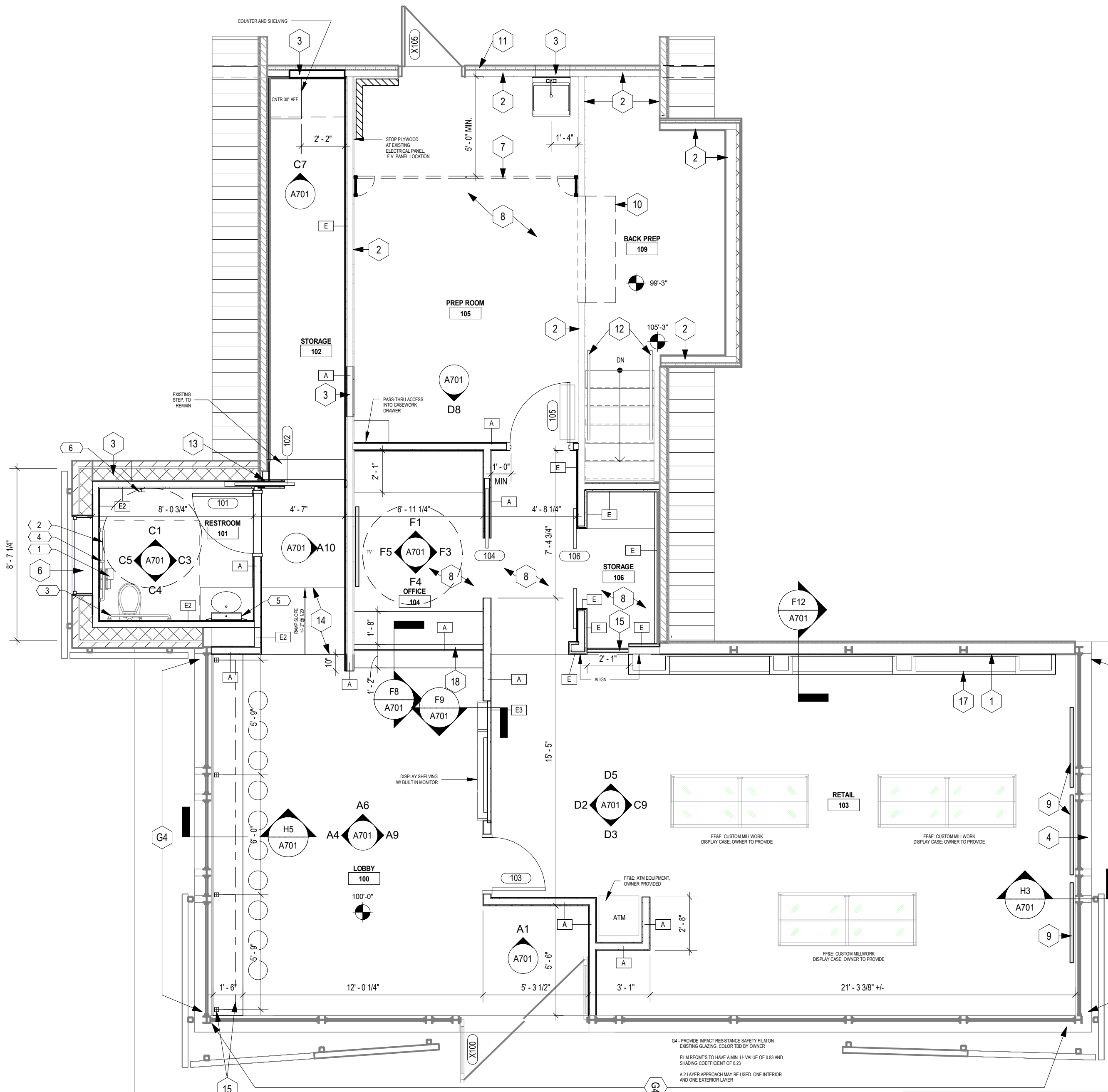
B11 ADJACENT DOOR FRAMING DETAIL
1/4" = 1'-0"



A11 SINGLE DOOR FRAMING DETAIL
1/4" = 1'-0"



A8 LOWER LEVEL FLOOR PLAN
1/4" = 1'-0"



A5 FIRST FLOOR PLAN
1/4" = 1'-0"

12 11 10 9 8 7 6 5 4 3 2 1

GENERAL NOTES:
FLOOR PLANS

1. RE: GENERAL ARCHITECTURAL SHEETS FOR ADDITIONAL NOTES AND DETAILS THAT ARE APPLICABLE.
2. ARCHITECTURAL ELEVATION 10'-0".
3. DIMENSIONS SHOWN ON THE FLOOR PLAN ARE TO THE FACE OF GYP. BOARD/ WALL (FG), FACE OF MASONRY (FM), FACE OF CONCRETE WALLS (FC), AND COLUMN GRID LINES, UNLESS NOTED OR SHOWN OTHERWISE.
4. NOTE: WALL THICKNESSES ARE ACTUAL DIMENSIONS AND PER WALL TYPES SEE GENERAL SHEETS.
5. DOOR OPENINGS NOT LOCATED BY DIMENSION SHALL BE CENTERED IN WALL SHOWN OR LOCATED 4 INCHES FROM FINISH WALL TO HINGE SIDE OF THE DOOR, ALWAYS ALLOWING A MINIMUM OF 18" FROM THE PULL SIDE (STRIKE SIDE) OF THE DOOR TO THE INTERSECTING WALL OR OTHER PROTRUDING OBJECTS.
6. DOORS TO BE SELECTED AND APPROVED BY OWNER.
7. CONSTRUCTION TO BE IN STRICT ACCORDANCE WITH ALL APPLICABLE BUILDING CODES, LOCAL RULES AND REGULATIONS, AND ALL OTHER CODES, REGULATIONS AND GOVERNING AGENCIES HAVING JURISDICTION WITH ALL APPLICABLE AMENDMENTS UNLESS ALTERED OR CHANGED THROUGH VARIANCES OF OTHER LEGAL PROCEDURES.
8. CONTRACTOR TO COORDINATE ALL LOW VOLTAGE/ SOUND WITH OWNER FOR LOCATIONS OF CONDUIT AND/OR DEVICES LOCATIONS.
9. ALL EXTERIOR STUD WALLS TO RECEIVE SPRAY FOAM INSULATION.

DOOR SCHED.
GENERAL NOTES

1. HM REFERS TO HOLLOW METAL.
2. AL REFERS TO ALUMINUM.
3. WD REFERS TO WOOD.
4. SCWD REFERS TO SOLID CORE WOOD.
5. ALL EXTERIOR ALUMINUM DOORS & FRAMES ARE TO BE FINISHED TO MATCH ADJACENT ALUMINUM WINDOW FRAME, U.N.O.
6. REFER TO FINISH LEGEND FOR FINISH OF INTERIOR HOLLOW METAL DOORS AND FRAMES.
7. REFER TO SPECIFICATION FOR DOOR HARDWARE SET DESIGNATIONS.
8. 2 HOUR FIRE BARRIER DOORS = 90 MINUTE RATING
1 HOUR FIRE BARRIER DOORS = 45 MINUTE RATING
1 HOUR SMOKE BARRIER = 20 MINUTE RATING
9. PROTECT ALL DOORS & FRAMES FROM DAMAGE THROUGHOUT CONSTRUCTION PHASES. ANY DAMAGE TO BE REPAIRED/REPLACED PER OWNER DISCRETION.

GLASS LITE SCHED.

GLAZING TYPE	DESCRIPTION
G1	1/4" TEMPERED CLEAR GLAZING
G2	1/4" CLEAR GLAZING
G3	1/4" TEMPERED FROSTED GLAZING
G4	SAFETY WINDOW FILM APPLIED ON EXISTING GLAZING - COLOR TBD BY OWNER
G5 - not used	3/16" PREMIUM GRADE FIRE RATED GLASS CERAMIC SAFETY GLAZING
G6	1" INSULATED GLAZING - LOW E
G7 - not used	1" TEMPERED INSULATED GLAZING
G8 - not used	1" INSULATED SPANDREL GLAZING
G9 - not used	1" INSULATED TEMPERED SPANDREL GLAZING

FLOOR PLAN KEYED
NOTES

1. LAMINATE 5/8" GYPSUM WALL BOARD TO EXISTING WALL.
2. INSTALL 3/4" PLYWOOD OVER EXISTING METAL WALL.
3. INFILL EXISTING DOOR OR WINDOW W/ STEEL STUDS & GYPSUM WALL BOARD AS REQUIRED TO PROVIDE FLUSH TRANSITION TO ADJACENT GYPSUM WALL BOARD.
4. EXISTING DOOR, TO BE PERMANENTLY SEALED. REMOVE HARDWARE & SEAL CLOSED.
5. PROVIDE WOOD TRIM AT OPENING. TRIM TO BE 1/4" PROUD OF SLAT WALL.
6. REMOVE EXISTING SLIDER WINDOW. PROVIDE NEW WINDOW TIGHT TO EXISTING HEAD. INFILL REMAINING OPENING WITH METAL STUDS & EXTERIOR CLASS-MAT GYPSUM WALL BOARD. INSULATE WALL TO DEPTH OF CAVITY TO NEW INTERIOR FURRING WALL. PROVIDE STUCCO FINISH ON EXTERIOR AND PAINT TO MATCH ADJ. BRICK COLOR.
7. PROVIDE FOLDING SECURITY GATE. ILLINOIS ENGINEERED PRODUCTS, PFG 1205 - 5'-6" COLLAPSED HEIGHT, MAX. CENTER DROP PIN @ FLOOR.
8. PROVIDE METAL SECURITY MESH OVER EXISTING PLYWOOD FLOOR. CLARK DIETRICH BARRIER MESH - BM75, 16 GAUGE THICKNESS W/ 3/4" DIAMOND. PROVIDE POURABLE SELF-LEVELING COMPOUND COMPATIBLE WITH FLOORING AND ADHESIVE TO ALLOW FOR FLUSH FLOOR TRANSITION TO CONCRETE RETAIL FLOOR.
9. NEW TV MONITORS & MOUNTS. PROVIDE HORIZONTAL TUBE STEEL SUPPORTS, ATTACHED TO EXISTING STEEL MEMBERS.
10. DEMOLISH EXISTING CONCRETE STEP. FRAME NEW STEP IN SMALLEST PROFILE ALLOWED BY CODE.
11. PROVIDE NEW DOOR BELL. VERIFY TYPE & LOCATION WITH OWNER.
12. PROVIDE NEW PAINTED METAL PIPE HANDRAIL.
13. SAW CUT BLOCK WALL TO CREATE OPENING FOR NEW 3'-0" DOOR. INFILL ANY EXISTING EXPOSED WALLS WITH NEW 5/8" METAL STUD & GYPSUM WALLBOARD WALL. AT UNDERSIDE OF ROOF SLOPE, LAMINATE 5/8" GYPSUM WALLBOARD.
14. BUSH HAMMER EXISTING CONCRETE FLOOR TO PROVIDE 1:20 SLOPE TRANSITION.
15. FULL HEIGHT "FRAMELESS" 1/4" TEMPERED GLASS PANEL. PROVIDE PRIVACY WINDOW FILM: 3M FASARA FABRIC/ WASHI SH2PTK. CAPTURE GLASS WITH C. R. LAURENCE SHALLOW U-CHANNEL, BLACK, SCBL3812CL.
16. COUNTER TOP SUPPORT FRAME. HSS 2-1/2" x 2-1/2" W/ 1/2" X 6-1/2" X 6-1/2" BASE PLATE. RE: H5 / A701.
17. WOOD SHELVING DISPLAY WALL W/ SLIDING GLASS DISPLAY DOORS. PROVIDE 1/4" TEMPERED GLASS INSET INTO ORL FLAT BLACK TRACK ASSEMBLY, D603. UPPER AND D602 LOWER TRACK W/ STEEL BALL-BEARING WHEELS.
18. ORL PRE-GLAZED VERTICAL SLIDING SERVICE WINDOW. PROVIDE SERIES WITH FIXED TOP PANEL AND SLIDING LOWER PANEL, WITHOUT SCREENS. PROVIDE WITH SASH BALANCE. KYNAR PAINTED FRAME TO MATCH ADJ. WALL COLOR. GC TO FV THE RO SIZES.

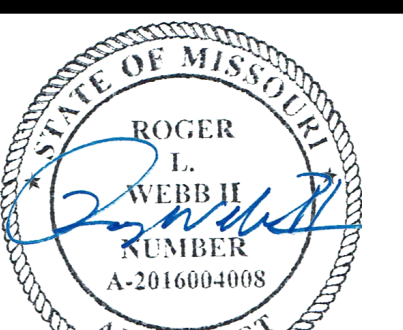
FLOOR PLAN & DOOR DETAILS



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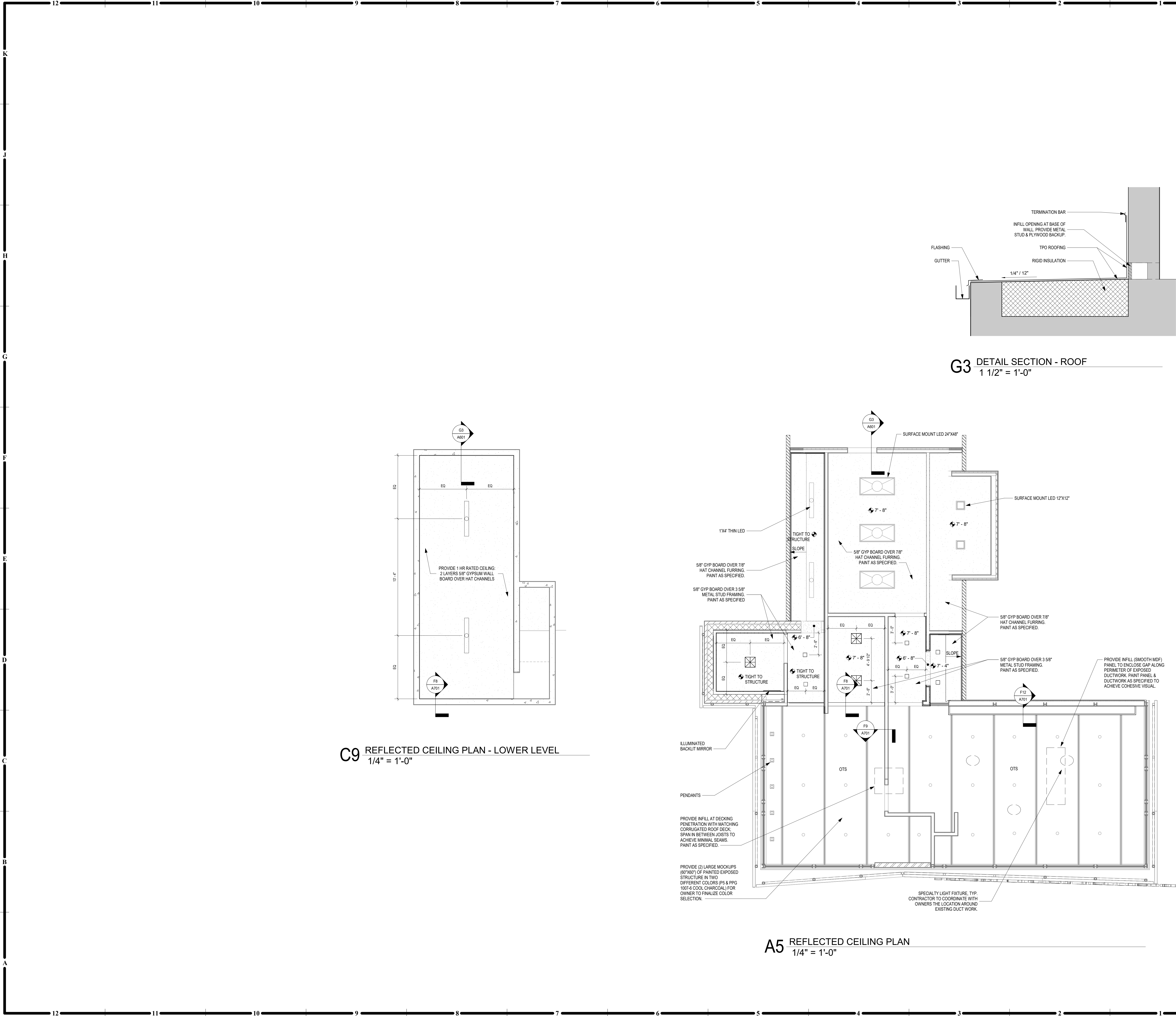
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ISSUE DATE: 03/27/2020
COLLINS WEBB #: 19026

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GENERAL NOTES - REFLECTED CEILING PLANS:

1. RE: SHEET G001 FOR ADDITIONAL GENERAL NOTES THAT ARE APPLICABLE.
2. DIMENSIONS SHOWN ON THE REFLECTED CEILING PLANS ARE TO THE FACE OF GYP. BOARD (F.G.) AND COLUMN GRID LINES, UNLESS NOTED OR SHOWN OTHERWISE.
3. ALL CEILINGS TO BE 9'-0" A.F.F., UNLESS NOTED OTHERWISE.
4. ALL CEILING HEIGHTS AS SHOWN ON PLANS AND DETAILS ARE FROM SLAB OR TILE FLOOR (FINISHED FLOOR) TO FINISH CEILING.
5. AT ALL GYP. BD. SOFFITS, EXTEND GYP. BD. UP 6 INCHES ABOVE ADJACENT CEILING.
6. RE: DETAILS FOR ADDITIONAL CONDITIONS AND CEILING HEIGHT INFORMATION.
7. RE: FINISH LEGEND AND FINISH SCHEDULE FOR ROOM CEILING FINISHES.
8. CEILING TILES/GRID TO BE CENTERED IN THE ROOM, UNLESS NOTED OTHERWISE.
9. RECESSED LIGHTING, SPEAKERS, SMOKE DETECTORS, ETC. AND PENDANT LIGHT FIXTURES - SHALL BE CENTERED IN CEILING TILE OR GYP. BD. CEILING, UNLESS NOTED OTHERWISE.
10. RE: INTERIOR ELEVATIONS FOR LOCATION OF WALL MOUNTED LIGHT FIXTURES.
11. RE: ELECTRICAL SHEETS AND SPECIFICATIONS FOR DETAILED INFORMATION ON LIGHT FIXTURE SCHEDULE.
12. RE: MECHANICAL SHEETS AND SPECIFICATIONS FOR DETAILED INFORMATION ON DIFFUSERS.
13. COORDINATE ALL PENDANT MOUNTED LIGHT FIXTURES IN EQUIPMENT AREAS WITH EXPOSED STRUCTURE.
14. COORDINATE ALL CEILING MOUNTED EQUIPMENT WITH CASEWORK BELOW.
15. IF THERE IS A CONFLICT BETWEEN ANY ABOVE-CEILING MECHANICAL / ELECTRICAL / PLUMBING WORK & THE SCHEDULED OR SHOWN CEILING HEIGHT, CONTACT THE ARCHITECT IMMEDIATELY FOR CLARIFICATION.
16. REF. MECH DWGS FOR LOCATIONS OF SOUND ISOLATION BELOW AND OR AROUND MECH. EQUIPMENT.
17. PROVIDE OVERALL CEILING COORDINATION DRAWING SHOWING ALL DEVICES DURING SHOP SUBMITTAL PROCESS.

NOT IN ARCHITECTURAL SCOPE

CEILING PLAN LEGEND

*SOME SYMBOLS MAY NOT BE USED IN THIS PROJECT.

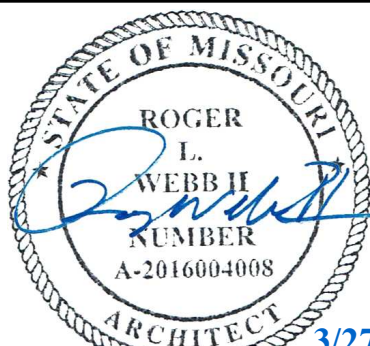
WOOD VISUAL	WC-SA OR WC-SB / PRICE BOTH MATERIALS FOR CLIENT APPROVAL
ACT-1: OPTIMA	SUSPENDED LAY-IN ACOUSTICAL CEILING TILE AND EXPOSED TEE-GRID SYSTEM (2'X6')
ACT-2: FINE FISURED, WHITE	SUSPENDED LAY-IN ACOUSTICAL CEILING TILE AND EXPOSED TEE-GRID SYSTEM (2'X4')
	5/8" GYPSUM BOARD BULKHEAD, CEILING OR SOFFIT. SEE APPLICABLE DETAILS AND SECTIONS.
	2'X4" SURFACE LED LIGHT FIXTURE. SEE ELECTRICAL DRAWINGS FOR TYPE.
	2'X2" SURFACE LED LIGHT FIXTURE. SEE ELECTRICAL DRAWINGS FOR TYPE.
	RECESSED CAN LIGHT FIXTURE. SEE ELECTRICAL DRAWINGS FOR TYPE.
	RECESSED CAN DIRECTIONAL LIGHT FIXTURE. SEE ELECTRICAL DRAWINGS FOR TYPE.
	SURFACE MOUNTED LED LIGHT FIXTURE. SEE ELECTRICAL DRAWINGS FOR TYPE AND SIZE.
	SUSPENDED DIRECT/INDIRECT LED LIGHT FIXTURE. SEE ELECTRICAL DRAWINGS FOR TYPE AND SIZE.
	LED STRIP LIGHT FIXTURE. SEE ELECTRICAL DRAWINGS FOR TYPE AND SIZE.
	DECORATIVE PENDANT MOUNTED LIGHT FIXTURE. SEE ELECTRICAL DRAWINGS FOR TYPE.
	WALL MOUNTED LIGHT FIXTURE. SEE ELECTRICAL DRAWINGS FOR TYPE.
	EMERGENCY WALL MOUNTED LIGHT FIXTURE. SEE ELECTRICAL DRAWINGS FOR TYPE.
	EMERGENCY EXIT LIGHT FIXTURE (CEILING MOUNTED). SEE ELECTRICAL DRAWINGS FOR TYPE.
	EMERGENCY EXIT LIGHT FIXTURE (WALL MOUNTED). SEE ELECTRICAL DRAWINGS FOR TYPE.
	CEILING MOUNTED RETURN AIR GRILLE. SEE MECHANICAL DRAWINGS FOR TYPE.
	CEILING MOUNTED SUPPLY DIFFUSER. SEE MECHANICAL DRAWINGS FOR TYPE.
	EXHAUST DUCT. SEE MECHANICAL DRAWINGS FOR TYPE.
	CEILING MOUNTED SPEAKER GRILLE. SEE ELECTRICAL DRAWINGS FOR TYPE.
	SPRINKLER HEAD. SEE PLUMBING DRAWINGS FOR TYPE.

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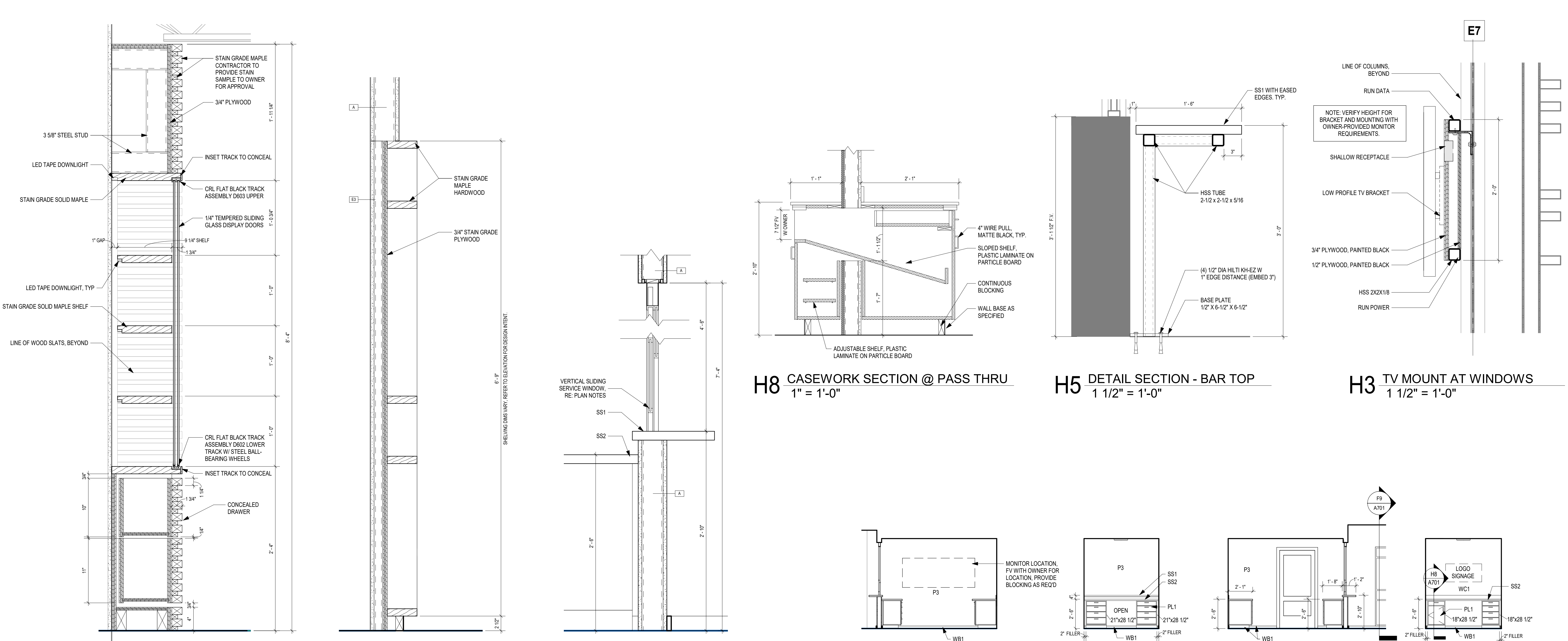
REFLECTED CEILING PLANS



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12 11 10 9 8 7 6 5 4 3 2 1



F12 DETAIL SECTION - WOOD SHELVING
1 1/2" = 1'-0"

F9 WOOD SHELVING DISPLAY
1 1/2" = 1'-0"

F8 TRANSACTION COUNTER
1 1/2" = 1'-0"

H8 CASEWORK SECTION @ PASS THRU
1" = 1'-0"

H5 DETAIL SECTION - BAR TOP
1 1/2" = 1'-0"

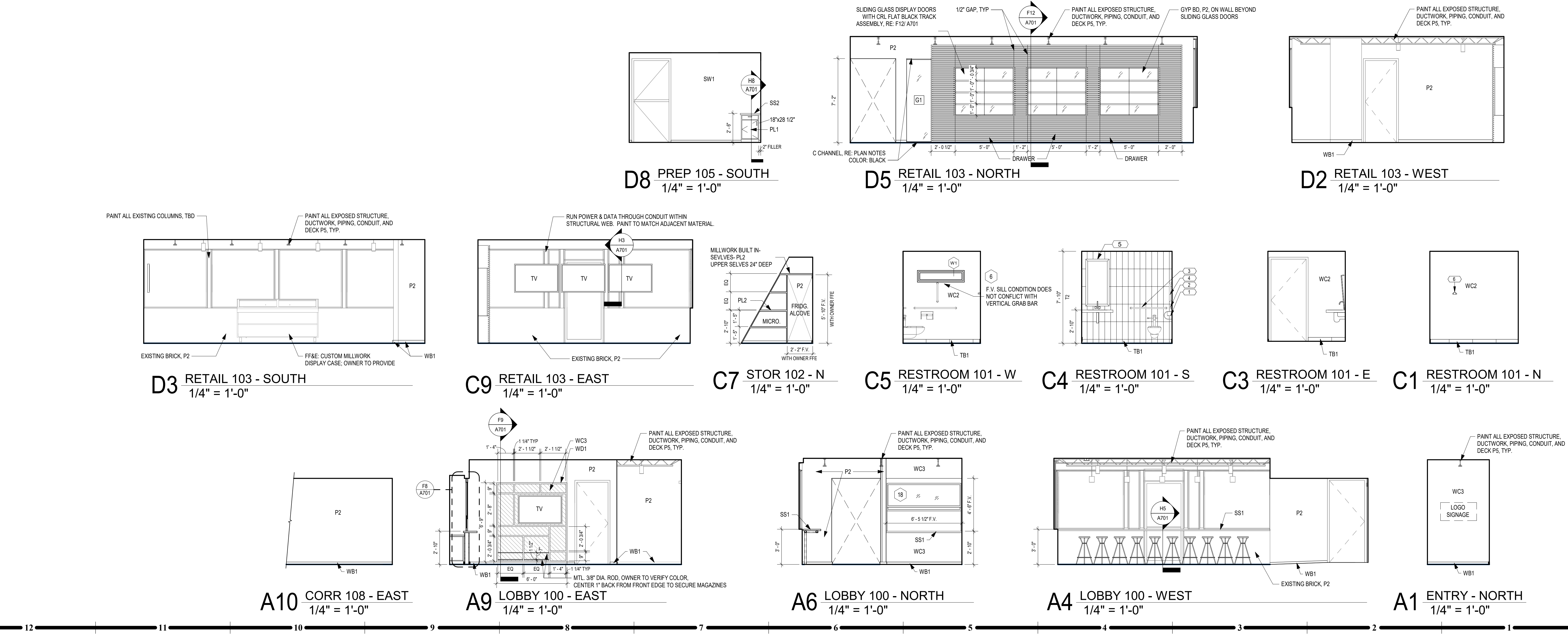
H3 TV MOUNT AT WINDOWS
1 1/2" = 1'-0"

F5 OFFICE 104 - WEST
1/4" = 1'-0"

F4 OFFICE 104 - S
1/4" = 1'-0"

F3 OFFICE 104 - E
1/4" = 1'-0"

F1 OFFICE 104 - N
1/4" = 1'-0"



12 11 10 9 8 7 6 5 4 3 2 1

GENERAL NOTES
INTERIOR ELEVATIONS:

- RE: SHEET G001 FOR ADDITIONAL GENERAL NOTES THAT ARE APPLICABLE.
- RE: SHEET G002 ACCESSIBILITY GUIDELINES FOR MOUNTING HEIGHTS OF FIXTURES AND ACCESSORIES.
- RE: A903 FOR FINISH LEGEND AND FINISH SCHEDULE FOR SPECIFIC FINISH INFORMATION AND LOCATIONS.
- RE: A903 FINISH FLOOR PLANS FOR ADDITIONAL WALL FINISH CLARIFICATIONS.
- RE: SHEET A903 FOR REVEAL AND CONTROL JOINT DETAILS, WALL PROTECTION DETAILS, AND FLOOR TRANSITION / WALL BASE DETAILS.
- RE: ENLARGED FLOOR PLAN SHEETS FOR TOILET ACCESSORY SCHEDULE.
- PROVIDE GYPSUM BOARD CONTROL JOINTS AT DOOR HEADERS WHERE GYPSUM BOARD EXCEEDS 30 FEET (TYP.), UNLESS SHOWN OTHERWISE. JOINTS TO BE LINED UP WITH BOTH SIDES OF DOOR FRAMES FOR DOORS 4'-0" AND OVER AND ALL DOORS THAT ARE LEAD LINED.
- PROVIDE PRIMER ON ALL WALL SURFACES THAT ARE TO RECEIVE WALL COVERING.
- CONTINUE WALL FINISH AS SCHEDULED BEHIND ALL FURNITURE AND EQUIPMENT, INCLUDING UNDER OPEN COUNTERS.
- TRANSITION ALL WALL AND BASE FINISHES, AND/OR COLOR CHANGES AT INSIDE CORNERS, UNLESS NOTED OTHERWISE. CONSULT ARCHITECT FOR CLARIFICATION, IF NECESSARY.
- CONTINUE WALL BASE AT ALL WALLS, FURRED OUT COLUMNS & COLUMN COVERS, AND AT ALL CASEWORK TOE KICKS, SIDE PANELS, AND UNDER OPEN COUNTERS, UNLESS NOTED OTHERWISE.
- CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO MILLWORK CASEWORK FABRICATION & INSTALLATION.
- CONTRACTOR SHALL PROVIDE & INSTALL GROMMETS AT 48" O.C. MAX. AT ALL WORK STATIONS WITH OPEN KNEE SPACE. COORDINATE LOCATIONS DIRECTLY WITH ELECTRICAL/DATA DRAWINGS FOR OUTLET LOCATIONS. COLOR TO BE SELECTED BY ARCHITECT.
- CONTRACTOR SHALL PROVIDE COUNTERTOP BRACKETS AT OPEN KNEE SPACES WIDER THAN 42" (TYP.), CENTER IN OPEN AREA AND PAINT TO MATCH WALL COLOR, UNLESS NOTED OR SHOWN OTHERWISE.
- ALIGN ALL WALL TILE JOINTS WITH FLOOR TILE JOINTS, UNLESS NOTED OR SHOWN OTHERWISE.
- RE: EQUIPMENT DRAWINGS & SPECS FOR EQUIPMENT ITEMS SHOWN DASHED, PROVIDED BY EQUIP. CONSULTANT AND/OR SUPPLIED BY OWNER. COORDINATE WITH OTHER TRADES AS NECESSARY.
- MECH. & ELEC. SYMBOLS AND OUTLETS ARE SHOWN FOR REFERENCE ONLY. COORDINATE LOCATIONS WITH MEP DRAWINGS. CONSULT ARCHITECT FOR CLARIFICATION, IF NECESSARY.



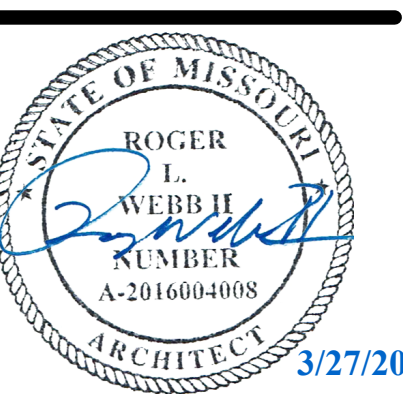
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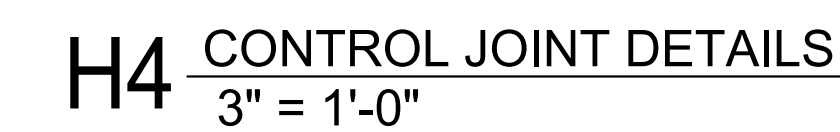


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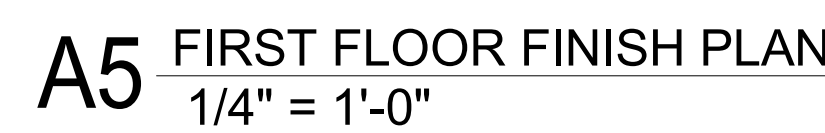
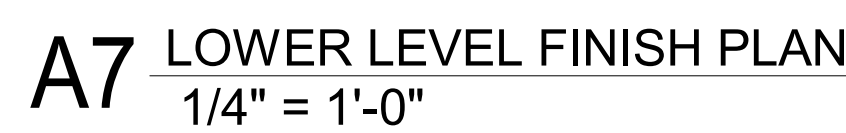
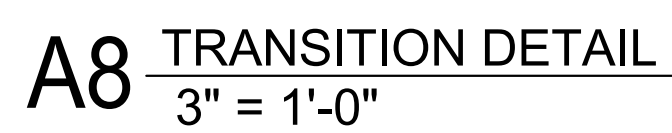
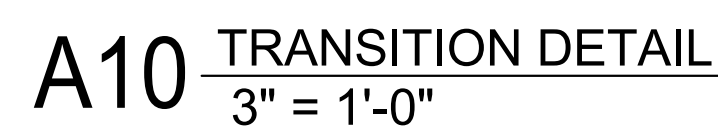
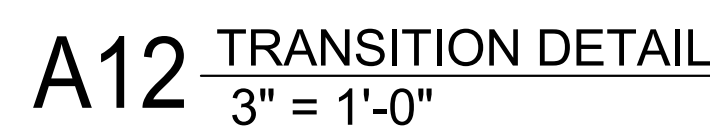
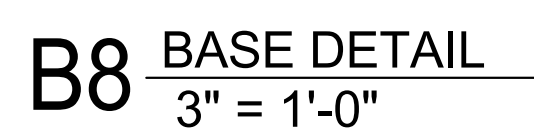
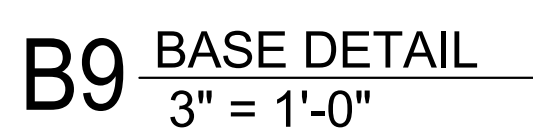
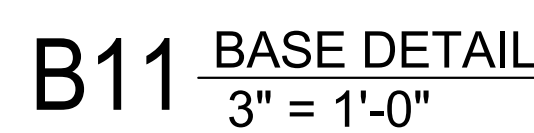
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ISSUE DATE: 03/27/2020
COLLINS WEBB #: 19026

INTERIOR ELEVATIONS



ROOM FINISH SCHEDULE												
		FLOORS		WALL FINISH				CASEWORK				
RM. NO.	ROOM NAME	FLOOR	WALL BASE	NORTH WALL	EAST WALL	SOUTH WALL	WEST WALL	CEILING FINISH	COUNTERTOP	BASE CABINET	UPPER CABINET	REMARKS
001	BASEMENT	RE1	RB1	SW1/P2	SW1/P2	SW1/P2	SW1/P2	GYP. P1	-	-	-	4, 7, 8
100	LOBBY	C1, WM1	WB1	WD1, P2, WC3	P2	P2	P2	EXP. P5	SS1	-	-	
101	RESTROOM	T1	TB1	WC2	WC2	T2	WC2	GYP. P1	-	-	-	2.6
102	STORAGE	LVT1	WB1	P2	P2	P2	P2	GYP. P1/ EXP. P5	PL2	PL1	PL1	
103	RETAIL	C1	WB1	P2	P2	P2	P2	EXP. P5	-	-	-	
104	OFFICE	LVT1	WB1	P3	P3	P3	P3	EXP. P5	SS2	PL1	-	
105	PREP ROOM	LVT1	RB1	SW1	SW1	SW1	SW1	EXP. P5/ GYP. P1	-	-	-	4.8
106	STORAGE	LVT1	RB1	P3	WC1	P3	P3	GYP. P1	SS2	-	-	
107	CORR	LVT1	RB1	P2	P2	P2	P2	GYP. P1/ EXP. P5	-	-	-	
108	CORR	LVT1	RB1	P2	P2	P2	P2	GYP. P1	-	-	-	
109	BACK PREP	RET/ LVT1	RB1	SW1/P2	SW1/P2	SW1/P2	SW1/P2	EXP. P5	-	-	-	1, 4, 7, 8
110	STAIRS	RE1	RB1	P2	P2	P2	P2	EXP. P5	-	-	-	
111	RETAIL	C1	WB1	P2	P2	P2	P2	EXP. P5	-	-	-	



1. RE: G-SHEETS FOR ADDITIONAL GENERAL NOTES THAT ARE APPLICABLE.
2. RE: FINISH LEGEND, FINISH SCHEDULE, AND FLOOR FINISH PLANS FOR SPECIFIC FLOOR INFORMATION AND FINISH CONDITIONS.
3. RE: FINISH DETAILS SHEET FOR ADDITIONAL FINISH AND FLOOR TRANSITION CONDITIONS.
4. FLOOR FINISH PATTERN SHALL NOT BE CENTERED IN ROOM, UNLESS NOTED OTHERWISE.
5. ALIGN WALL TILE JOINTS WITH FLOOR TILE JOINTS, UNLESS NOTED OR SHOWN OTHERWISE.
6. FINISH MATERIAL, AND/ OR PATTERN SHALL BE INSTALLED UNDER THE KICKS OF CASEWORK/MILLWORK, UNDER OPEN COUNTERTOPS, AND UNDER EQUIPMENT. FINISH MATERIAL, AND/ OR PATTERN TO ALIGN WITH ROOM SIDE OF DOOR STOP, UNLESS NOTED OR SHOWN OTHERWISE.
7. INSTALL TRANSITION STRIPS AT ALL FLOOR FINISH MATERIAL CHANGES, UNLESS NOTED OTHERWISE.

1. RE: G-SHEETS FOR ADDITIONAL GENERAL NOTES THAT ARE APPLICABLE.

2. RE: FINISH LEGEND & FINISH SCHEDULE FOR FINISHES, FINISH NOTES, FINISH LOCATIONS

3. CONTRACTOR SHALL PROVIDE ALL NECESSARY BLOCKING FOR WALL PROTECTION ATTACHMENT TO WALLS, BUT IS NOT LIMITED TO: HANDRAILS, POSTER CASES, TV MONITORS, BATHROOM ACCESSORIES, FIRE EXTINGUISHERS AND ETC. RE: REPAIRS TO FINISH SPECIFICATION SECTION FOR CLARIFICATION

4. CONTRACTOR SHALL PROVIDE HANDRAILS, HANDRAILS ACCESSORY MOLDING OR TRIM FOR WALL PROTECTION ITEMS, UNLESS NOTED OTHERWISE.

5. IF WALL IS LESS THAN 18" WIDE DO NOT PROVIDE HANDRAILS. HANDRAILS SHALL BE SET APPROXIMATELY 3" FROM THE OPEN SWING OF A DOOR. HANDRAILS SHOULD BE SET APPROXIMATELY 3" FROM A CORNER GARD.

1. ALL PAINTED SURFACES TO RECEIVE EPOXY PAINT, EGGSHELL FINISH.
2. PROVIDE FULL HEIGHT WALL TILE AT WET WALLS, AS INDICATED.
3. PROVIDE WALL TILE TO 5'-0" AFF AT WET WALLS, AS INDICATED.
4. PROVIDE PLYWOOD (4'wx8'H) PANELS ALONG PERIMETER OF ROOM AS SUBSTRATE TO SLAT WALL.
5. PROVIDE FRP TO 3'-0" AFF.
6. PROVIDE BULLNOSE EDGE AT EXPOSED EDGE OF WALL TILE BASE (TB1).
7. PROVIDE 1/2" DEDUCT ALTERNATE FOR FULL HEIGHT SLAT WALL (SW1), IN LIEU OF PAINTED SURFACE.
8. PROVIDE DEDUCT ALTERNATE FOR LV11, IN LIEU OF RESINOUS EPOXY FLOORING (RE1)

ALL FLOOR FINISHES ARE **NOT** GRAPHICALLY SHOWN, ONLY THOSE FOR TRANSITION CLARIFICATION

ALL WALL FINISHES ARE **NOT** GRAPHICALLY SHOWN . REFER TO SHEETS A9.01 AND A7.00 SERIES FOR SPECIFIC LOCATIONS AND MATERIALS.

FINISH FLOOR PLAN & DETAILS

ELECTRICAL SYMBOL LEGEND

SOME SYMBOLS AND ABBREVIATIONS ON THIS LEGEND MAY NOT BE USED

CIRCUITING	POWER DEVICES
 HOME RUN (2#12 1#120 UNO) INDICATES 2 PHASE, 1 N, & 1 GRD CONDUCTOR HOME RUN INDICATES SHARED CIRCUIT HOME RUN INDICATES #10 CONDUCTORS ENTIRELY	 DUPLEX RECEPTACLE  LINE THRU DEVICE INDICATES ABOVE COUNTER  SPECIAL DUPLEX RECEPTACLE (GFCI, ISOLATED GROUND, ETC.)  QUADPLEX RECEPTACLE  SIMPLEX RECEPTACLE W/NEA CONFIG AS NOTED  MULTI-POLE RECEPTACLE W/NEA CONFIG AS NOTED  CEILING MOUNTED RECEPTACLE  RECEPTACLE/DEVICE MOUNTED IN "TOMBSTONE"  POKE-THRU WITH POWER  POKE-THRU WITH TELECOMMUNICATIONS  POKE-THRU W/POWER AND TELECOM  SINGLE GANG FLOOR BOX (2, 3, 4 GANG SIMILAR)  DIVIDED POWER POLE  CLOCK RECEPTACLE  PLUG MOLD / WIRE MOLD AS SPECIFIED  JUNCTION BOX  THERMOSTAT - ELECTRIC  PUSH BUTTON  MOTOR
UTILITIES	TELEPHONE/DATA
 UNDERGROUND ELECTRICAL  OVERHEAD ELECTRICAL  TELECOMMUNICATIONS CONDUIT  UNDERGROUND TELECOMMUNICATIONS CONDUIT	 TELEPHONE OUTLET (SINGLE-GANG BOX WITH (1) 3/4" CONDUIT TO ABOVE ACCESSIBLE CEILING)  LINE THRU DEVICE INDICATES ABOVE COUNTER  TELEPHONE OUTLET (DOUBLE-GANG BOX WITH (2) 3/4" CONDUITS TO ABOVE ACCESSIBLE CEILING)  TELEPHONE/DATA OUTLET (DOUBLE-GANG BOX WITH (2) 3/4" CONDUITS TO ABOVE ACCESSIBLE CLG.)  PHONE OUTLET WITH NUMBER OF PHONE JACKS AS INDICATED - SEE DETAILS FOR ADD'L INFO.  DATA OUTLET WITH NUMBER OF PHONE JACKS AS INDICATED - SEE DETAILS FOR ADD'L INFO.  PHONE/DATA OUTLET WITH NUMBER OF PHONE/DATA JACKS AS INDICATED - SEE DETAILS FOR ADD'L INFO.  WALL-MOUNTED WIRELESS INTERNET TRANSMITTER  CEILING-MOUNTED WIRELESS INTERNET TRANSMITTER  RECESSED COMBINATION AV AND POWER OUTLET COORD. LOCATION OF DEVICE WITH TV MOUNT  TELEVISION OUTLET (SINGLE GANG BOX WITH (1) 3/4" CONDUIT TO ABOVE ACCESSIBLE CEILING)
LIGHTING	
 GRID-MOUNTED TROFFER LIGHT FIXTURE  STRIP LIGHT FIXTURE  SURFACE/RECESSED LIGHT FIXTURE  WALL-MOUNTED LIGHT FIXTURE  POLE-MOUNTED LIGHT FIXTURE  EXIT LIGHT  BATTERY-OPERATED EMERGENCY LIGHT (WALL MTD)  WALL-MOUNTED COMBINATION EXIT LIGHT / BATTERY-OPERATED EMERGENCY LIGHT  LIGHT SWITCH - SINGLE POLE  LIGHT SWITCH - 3-WAY  LIGHT SWITCH - 4-WAY  LIGHT SWITCH - KEY  LIGHT SWITCH - DIMMER  LIGHT SWITCH - PILOT LIGHT  LIGHT SWITCH - 2 POLE  LIGHT SWITCH - 3-WAY DIMMER  WALL-MOUNTED MOTION SWITCH  CEILING-MOUNTED MOTION SWITCH  DIMMER BOARD  REMOTE CONTROL SWITCH AS SCHEDULED  TIMECLOCK - REFER TO PLANS / DETAILS	

MECHANICAL AND PLUMBING SYMBOL LEGEND

SOME SYMBOLS AND ABBREVIATIONS ON THIS LEGEND MAY NOT BE USED

SHEET METAL	MECHANICAL PIPING	PIPING SYMBOLS
HIGH EFFICIENCY ROUND DUCT TAKEOFF (WITH & WITHOUT MANUAL DAMPER) SPIN-IN ROUND DUCT TAKEOFF (WITH & WITHOUT MANUAL DAMPER) CONICAL BELLMOUTH ROUND TAKEOFF ROUND DUCT RUNOUT WITH FLEX DUCT DUCTWORK ELBOW (WITH & WITHOUT TURNING VANES) FIRE DAMPER FS/FIRE/SMOKE DAMPER SD/SMOKE DAMPER BD/BACKDRAFT DAMPER (GRAVITY) AUTOMATIC MOTORIZED DAMPER SUPPLY DIFFUSER AND DIFFUSER CALLOUT (NECK SIZE, TYPE AND CFM) LINEAR/SLOT DIFFUSER RETURN GRILLE OR EXHAUST REGISTER RETURN AND EXHAUST AIR FLOW INDICATOR THERMOSTAT TEMPERATURE SENSOR HUMIDISTAT CONTROL WIRING	REFRIGERANT LIQUID REFRIGERANT SUCTION DRAIN (CONDENSATE) COMPRESSED AIR CHILLED WATER SUPPLY CHILLED/HOT WATER RETURN CHILLED/HOT WATER RETURN HOT WATER SUPPLY HOT WATER RETURN COOLING TOWER SUPPLY COOLING TOWER RETURN STEAM (ANY #S DENOTE PRESSURE) CONDENSATE RETURN (IFS DENOTE PRESSURE) REFRIGERANT VENT RUPTURE DISK	SHUT/OFF VALVE SHUT/OFF VALVE IN RISER BALANCING VALVE PLUG VALVE AUTO FLOW CONTROL VALVE PIPING ELBOW UP PIPING ELBOW DOWN PIPING TEE PIPING ELBOW PIPING TEE UP PIPING TEE DOWN INCREASE / REDUCER UNION CAP PIPE FLEX STRAINER CHECK VALVE INLINE STRAINER TEST PLUG GATE ANCHOR TRIPLE DUTY VALVE AUTOMATIC 3-WAY CONTROL VALVE AUTOMATIC 2-WAY CONTROL VALVE SOLENOID VALVE
PLUMBING FIXTURES/EQUIPMENT	PLUMBING PIPING	PIPING SPECIALTIES
HOSE BIB WALL HYDRANT CLEAN OUT REDUCED PRESSURE BACKFLOW PREVENTER DOUBLE CHECK BACKFLOW PREVENTER PLUMBING FIXTURE AND CALLOUT FD: FLOOR DRAIN, AD: AREA DRAIN, FF: FLOOR SINK RD: ROOF DRAIN CORO: OVERFLOW ROOF DRAIN	DOMESTIC COLD WATER DOMESTIC HOT WATER RECIRCULATING DOMESTIC HOT WATER WASTE ABOVE GRADE OR FLOOR WASTE BELOW GRADE OR FLOOR STORM ABOVE GRADE OR FLOOR STORM BELOW GRADE OR FLOOR STORM OVERFLOW ABOVE GRADE OR FLOOR STORM OVERFLOW BELOW GRADE OR FLOOR PLUMBING VENT WATER SERVICE GAS (NATURAL) FROM SUMP PUMP DISCHARGE COMPRESSED AIR PROPANE SOFT DOMESTIC COLD WATER SOFT DOMESTIC HOT WATER SOFT RECIRCULATING HOT WATER ACID WASTE ACID WASTE VENT NON-POTABLE DEIONIZED WATER REVERSE OSMOSIS WATER PLUMBING RISER CALLOUT (REFERS TO RISER DIAGRAM)	PRESS/TEMP GAUGE WITH COOK THERMOMETER PRESSURE REDUCING VALVE RELIEF VALVE WATER HAMMER ARRESTOR
GENERAL SYMBOLS		
INDICATES CONNECT TO EXISTING INDICATES ELEVATION EQUIPMENT TAG. REFER TO CONNECTIONS SCHEDULE FOR ELECTRICAL CONNECTIONS AND LOAD INFO FOR KITCHEN, SHOP, ETC. EQUIPMENT		

ABBREVIATIONS

A/E ARCHITECT / ENGINEER AFF ABOVE FINISHED FLOOR AFG ABOVE FINISHED GRADE AG ABOVE GRADE AAJ AUTHORITY HAVING JURISDICTION AHU AIR HANDLING UNIT ARCH ARCHITECT BFP BACKFLOW PREVENTER BG BELOW GRADE BLDG BUILDING BMS BUILDING MANAGEMENT SYSTEM C CONDUIT CAM CAMERA CD COLD DECK CLG COOLING CM COORDINATE MOUNTING HEIGHT CO CLEAN OUT COT CONNECT TO EXISTING DCVA DOUBLE CHECK VALVE ASSEMBLY DOW DOMESTIC COLD WATER DDC DIRECT DIGITAL CONTROLS DF DRINKING FOUNTAIN DHW DOMESTIC HOT WATER DHW-R DOMESTIC HOT WATER RETURN DA DIAMETER DN DOWN E/C ELECTRICAL CONTRACTOR EA EXHAUST AIR EDF ELECTRIC DRINKING FOUNTAIN ELEV ELEVATION EXT EMERGENCY EXTINGUISHING DEVICE EXT EXTERIOR WATER TEMPERATURE EX EXISTING ITEM FTA FROM FLOOR ABOVE FTB FROM FLOOR BELOW FPO FINISHED FLOOR CLEAN OUT FL FLOW LINE FLR FLOOR FP FIRE PROTECTION FPM FEET PER MINUTE FWD FLUSH WALL CLEAN OUT G GROUND / GANG GT GENERAL CONTRACTOR GFI GROUND FAULT CIRCUIT INTERRUPTER GPM GALLONS PER MINUTE HGS HEATING IG ISOLATED GROUND JB JUNCTION BOX LED LIGHT EMITTING DIODE LEW LEAVING WATER TEMPERATURE M/C MECHANICAL CONTRACTOR MA MIXED AIR MAU MAKE UP AIR UNIT MCB MAIN CIRCUIT BREAKER MECH MECHANICAL MH MANHOLE MLO MAIN LOSS ONLY NFA NET FREE AREA NL NIGHT LIGHT OA OUTSIDE AIR ORD OVERFLOW ROOF DRAIN P/C PLUMBING CONTRACTOR PSI POUNDS PER SQUARE INCH PVC POLYVINYLCHLORIDE RA RETURN AIR RE/REF REFER / REFERENCE RF RELIEF FAN REL RELOCATED ITEM RPZ REDUCED PRESSURE ZONE RR RESTROOM SA SUPPLY AIR SPD SURGE PROTECTIVE DEVICE ST SHUNT TRIP TA TRANSFER AIR TFA TO FLOOR ABOVE TFF TO FLOOR BELOW TP TAMPERPROOF TYP TYPICAL UNO UNLESS NOTED OTHERWISE VRF VARIABLE REFRIGERANT FLOW VTR VENT THROUGH ROOF WCO WALL CLEANOUT WP WIRE GUARD WPC WEATHERPROOF

FIRE SEALING NOTES

- COORDINATE CONSTRUCTION OF OPENINGS AND PENETRATING ITEMS TO ENSURE THAT THROUGH-PENETRATION FIRESTOP SYSTEMS ARE INSTALLED ACCORDING TO SPECIFIED AND APPLICABLE U.L. REQUIREMENTS.
- 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 INSPECTOR, IF REQUIRED BY AUTHORITIES HAVING JURISDICTION.
- COMPATIBILITY: PROVIDE THROUGH-PENETRATION FIRESTOP SYSTEMS THAT ARE COMPATIBLE WITH ONE ANOTHER; WITH THE SUBSTRATES FORMING OPENINGS; AND WITH THE ITEMS, IF ANY, PENETRATING THROUGH-PENETRATION FIRESTOP SYSTEMS UNDER CONDITIONS OF SERVICE AND APPLICATION AS DEMONSTRATED BY TESTING AND FIELD EXPERIENCE.
- 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 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 INSTALLED AS PER MANUFACTURERS RECOMMENDATIONS.
- FIRE SEAL ALL PIPING, CONDUIT, CABLE, ETC. PENETRATIONS ROUTED THROUGH FIRE RATED WALLS.
- PROVIDE FIRE RATED ENCLOSURES OR WRAPS ON LIGHT FIXTURES AND OTHER ITEMS PENETRATING FIRE RATED CEILING, FLOOR/CEILING, CEILING/ROOF ASSEMBLIES TO MAINTAIN UL LISTING FOR CONSTRUCTION.

GEN. RENOVATION NOTES

- DISCONNECT AND REMOVE ANY EQUIPMENT, PIPING OR DUCTWORK THAT WAS INSTALLED AS PART OF THE BUILDING SHELL THAT IS NOT NEEDED OR CONFLICTS WITH THIS BUILD OUT.
- EXISTING UNDERGROUND PIPING LOCATIONS ARE ESTIMATED BASED UPON ANTICIPATED ROUTINGS. FIELD VERIFY EXACT LOCATIONS DURING CONSTRUCTION AND PROVIDE ALL NECESSARY MODIFICATIONS.
- SAW/CUT GRADE FLOOR SLABS TO INSTALL NEW PIPING, MECHANICAL SYSTEMS, ELECTRICAL FLOOR BOXES AND ALL ASSOCIATED CONDUIT, ETC. PATCH FLOOR TO MAKE LIKE NEW AFTER INSTALLATION. TAKE CARE TO LOCATE EXISTING CONDUIT, ETC. AND AVOID CUTTING EXISTING CONDUITS BY NOT OVER-CUTTING SLAB DEPTH.
- SAW/CUT AND CORE DRILL OPENINGS AS REQUIRED FOR ABOVE GRADE SLAB PENETRATIONS. X-RAY SLABS TO ASCERTAIN STEEL AND EXISTING CONDUIT PENETRATIONS PRIOR TO CUTTING. VERIFY OPENINGS WITH STRUCTURAL ENGINEER PRIOR TO CUTTING.
- HOMERUN CIRCUITS TO 20 AMP, SINGLE POLE BREAKERS IN PANELBOARDS INDICATED. UTILIZE SPARE BREAKERS MADE AVAILABLE BY DEMOLITION, IF NO SPARE BREAKER IS AVAILABLE, PROVIDE NEW BREAKER.
- EXISTING CIRCUITING MAY BE RE-USED WHERE POSSIBLE.
- CONCEAL NEW CIRCUITING IN WALLS WHERE POSSIBLE. FOR NEW DEVICES INSTALLED ON EXISTING SOLID WALLS, CONCEAL CIRCUITING IN WIREMOLD. COORDINATE FINISH AND GENERAL ROUTING OF WIREMOLD WITH ARCHITECT TO BE AS CONCEALED AND/OR ROUTED IN A NEAT AND ORGANIZED CONSISTENT MANNER.
- ALL LIGHTING FIXTURES THAT ARE RELOCATED OR OTHERWISE AFFECTED BY THE SCOPE OF WORK SHALL BE CLEANED AND RELAMPED.

GEN. MECHANICAL NOTES

- COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST ADOPTED VERSION OF THE INTERNATIONAL MECHANICAL CODE, LOCAL AND STATE CODES, AND REQUIREMENTS OF THE AHJ.
- ANY POWER FOR CONTROL SYSTEMS TO BE PROVIDED BY E/C IS INDICATED ON ELECTRICAL PLANS. ANY ADDITIONAL LINE VOLTAGE OR LOW VOLTAGE POWER REQUIRED BY THE M/C OR SUBCONTRACTORS TO HAVE A FULLY FUNCTIONING SYSTEM SHALL BE PROVIDED BY THE M/C CONTRACTOR OR SUBS.
- ALL EQUIPMENT SHALL BE ADEQUATELY AND PROPERLY SUPPORTED AND FASTENED FROM STRUCTURE.
- ALL EQUIPMENT AND ACCESSORIES INSTALLED IN CONCEALED SPACES REQUIRING ACCESS SHALL BE PROVIDED WITH ACCESS DOORS MEETING ANY FIRE REQUIREMENTS OF THE WALL/CEILING THEY ARE INSTALLED.
- EACH AIR HANDLING UNIT OVER 2000CFM SHALL BE PROVIDED WITH A SMOKE DETECTOR TO SHUT DOWN THE UNIT PER IMC 606 AS REQUIRED BY AHJ. COORDINATE WITH OTHER TRADES.
- START UP AND ADJUST ALL EQUIPMENT AND VERIFY ALL MECHANICAL SYSTEMS IN OPERATE IN ACCORDANCE WITH THEIR INTENDED PURPOSES. SUBMIT BALANCE AND START UP REPORTS TO THE A/E. REFER TO SPECIFICATIONS FOR ANY ADDITIONAL REQUIREMENTS.

GENERAL PLUMBING NOTES

- COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST ADOPTED VERSION OF THE INTERNATIONAL PLUMBING CODE, LOCAL AND STATE CODES, AND REQUIREMENTS OF THE AHJ.
- NO PIPING SHALL BE INSTALLED WHERE IT WILL SUBJECT TO FREEZING TEMPERATURES. PIPING IN EXTERIOR WALLS SHALL BE INSTALLED ON THE WARM SIDE OF BUILDING INSULATION, INSULATED AND THE CHASE SHALL BE VENTILATED WITH GRILLES ALLOWING INDOOR AMBIENT CONDITIONS TO CIRCULATE THROUGH THE CHASE.
- PROVIDE CLEANOUTS IN THE FOLLOWING LOCATIONS:
 - IN ALL HORIZONTAL DRAINS (WITHIN THE BUILDING) NOT MORE THAN 100 FEET APART.
 - IN BUILDING SEWERS LOCATED NO MORE THAN 100 FEET APART MEASURED FROM THE UPSTREAM ENTRANCE OF THE CLEANOUT.
 - EACH CHANGE OF DIRECTION OF THE BUILDING DRAIN OR HORIZONTAL WASTE OR SOIL LINES GREATER THAN 45 DEGREES.
 - WHERE MORE THAN ONE CHANGE OF DIRECTION OCCURS IN A RUN OF PIPING, ONLY ONE CLEANOUT SHALL BE REQUIRED FOR EACH 40 FEET OF DEVELOPED LENGTH OF THE DRAINAGE PIPING.
 - AT THE BASE OF EACH WASTE OR SOIL STACK.
 - NEAR THE JUNCTION OF THE BUILDING DRAIN AND BUILDING SEWER.

GENERAL ELECTRICAL NOTES

- COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST ADOPTED VERSION OF THE NATIONAL ELECTRICAL CODE, LOCAL AND STATE CODES, AND REQUIREMENTS OF THE AHJ.
- COORDINATE LOCATIONS OF RECEPTACLES, SWITCHES, ETC. WITH ARCHITECTURAL CASEWORK AND ELEVATIONS.
- REFER TO MOUNTING HEIGHTS DETAIL FOR MOUNTING HEIGHTS OF ALL DEVICES NOT INDICATED OTHERWISE.
- PROVIDE ALL EMPTY CONDUITS WITH PULL STRINGS AND BUSHED ENDS.
- CONTRACTOR SHALL CONCEAL ALL CONDUIT, FITTINGS, AND DEVICES FROM VIEW WHERE REASONABLY POSSIBLE.

COORDINATION NOTES

- COORDINATE REQUIREMENTS FOR INSTALLATION OF SYSTEMS AND EQUIPMENT WITH ALL OTHER TRADES TO ARCHITECTURAL PLANS FOR REFERENCE TO ROOM NAMES NOT SHOWN.
- THE CONTRACTOR SHALL COORDINATE THE ROUTING AND PATH OF ALL SYSTEMS, CONDUITS, PIPES, DUCTS, ETC. WITH THE POSITION AND LAYOUT OF THE STRUCTURE. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING NECESSARY OFFSETS, TURNS, RISERS AND DROPS FOR SYSTEMS AND COMPONENTS AS NEEDED TO INSTALL THE M/C SYSTEMS TO CLEAR STRUCTURE, CEILING, ETC. AND OTHER SYSTEMS IN POTENTIAL CONFLICT WITH ROUTING.
- COORDINATE WORK WITH OTHER TRADES TO INSTALL SYSTEMS ABOVE CEILING HEIGHTS INDICATED ON ARCHITECTURAL PLANS.
- CHECK SPACE REQUIREMENTS WITH OTHER TRADES AND STRUCTURE/CONSTRUCTION TO ENSURE THAT ALL MATERIALS AND EQUIPMENT CAN BE INSTALLED IN THE SPACE ALLOTTED INCLUDING FINISHED SUSPENDED CEILING AND OTHER SPACES, CHASES, ETC. WITHIN THE BUILDING. MAKE MODIFICATIONS THERETO AS REQUIRED AND APPROVED.
- TRANSIT TO OTHER TRADES ALL INFORMATION REQUIRED FOR WORK TO BE PROVIDED UNDER THEIR RESPECTIVE SECTIONS IN AMPLIE TIME FOR INSTALLATION.
- WHEREVER WORK INTERCONNECTS WITH WORK OF OTHER TRADES, COORDINATE WITH THOSE TRADES TO ENSURE THAT ALL SUBCONTRACTORS HAVE THE INFORMATION NECESSARY SO THAT THEY MAY PROPERLY INSTALL ALL CONNECTIONS AND EQUIPMENT. IDENTIFY ALL ITEMS OF WORK THAT REQUIRE ACCESS SO THAT THE CEILING TRADE WILL KNOW WHERE TO INSTALL ACCESS DOORS AND PANELS.
- COORDINATE PROJECT AND SCHEDULE WORK WITH OTHER TRADES IN ACCORDANCE WITH THE CONSTRUCTION SEQUENCE.
- DRAWINGS SHOW THE GENERAL RUNS OF CONDUITS, PIPING AND DUCTWORK AND APPROXIMATE LOCATION OF OUTLETS. ANY SIGNIFICANT CHANGES IN LOCATION OF ITEMS NECESSARY IN ORDER TO MEET FIELD CONDITIONS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT/ENGINEER AND RECEIVE HIS APPROVAL BEFORE SUCH ALTERATIONS ARE MADE. ALL SUCH MODIFICATIONS SHALL BE MADE WITHOUT ADDITIONAL COST TO THE OWNER.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION AND REPAIR OF SURFACES, AREAS AND PROPERTY THAT MAY BE DAMAGED AS A RESULT OF CONSTRUCTION ACTIVITIES.
- ADJUST LOCATION OF PIPING, DUCTWORK, ETC. TO PREVENT INTERFERENCES, BOTH ANTICIPATED AND ENCOUNTERED. DETERMINE THE EXACT ROUTE AND LOCATION OF EACH ITEM PRIOR TO FABRICATION. MAKE OFFSETS, TRANSITIONS AND CHANGES IN DIRECTION IN SYSTEMS AS REQUIRED TO MAINTAIN ADEQUATE CLEARANCES AND HEADROOM.
- WHenever the work is of sufficient complexity, prepare additional coordination drawings and organize on-site meetings with all related subcontractors to coordinate the work between trades. The drawings shall clearly show the work and its relation to the work of other trades and be submitted for review prior to commencing shop fabrication or erection in the field.
- COORDINATE WITH LOCAL UTILITY PROVIDERS FOR THEIR REQUIREMENTS FOR SERVICE CONNECTIONS AND PROVIDE ALL NECESSARY PERMITS, MATERIALS, LABOR AND TESTING TO ACCOMPLISH THE WORK.
- COORDINATE THE MOUNTING OF SUSPENDED LIGHT FIXTURES UTILIZING INDOOR LIGHT SO THAT CONDUIT, DUCTWORK, STRUCTURAL MEMBERS, ETC. ARE NOT LOCATED DIRECTLY ABOVE THE LIGHT FIXTURE. MAINTAIN A MINIMUM OF 24" CLEARANCE FROM THESE ITEMS WHENEVER POSSIBLE.

GENERAL NOTES

- SOME ROOM NAMES MAY NOT BE SHOWN FOR PURPOSE OF CLARIFYING PLANS. REFER TO ARCHITECTURAL PLANS FOR REFERENCE TO ROOM NAMES NOT SHOWN.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN AND KEEP AT THE JOB SITE, AN UP TO DATE SET OF "RECORD DRAWINGS" SHOWING ALL CHANGES FROM THE ORIGINAL PLANS. THE CONTRACTOR SHALL DELIVER THE "RECORD DRAWINGS" TO THE ENGINEER AT THE CONCLUSION OF THE PROJECT ELECTRONICALLY.
- THESE DRAWINGS ARE DIAGRAMMATIC. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS (NEW AND EXISTING), DIMENSIONS, AND CLEARANCES PRIOR TO THE COMMENCEMENT OF WORK AND SHALL INCLUDE ALL COSTS, EQUIPMENT, MATERIAL, ACCESSORIES, ETC. REQUIRED FOR A FULLY COMPLETE, FUNCTIONAL AND CODE COMPLIANT INSTALLATION.
- FINAL LOCATIONS OF ALL DEVICES, LIGHT FIXTURES, EQUIPMENT ETC. SHALL BE INDICATED ON THE ARCHITECTURAL DRAWINGS. ALL DIMENSIONAL INFORMATION SHALL BE OBTAINED FROM ARCHITECTURAL PLANS. NO DIMENSIONAL INFORMATION SHALL BE OBTAINED FROM MEP DRAWINGS.
- THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS, APPROVALS, LICENSES, ETC. AS NEEDED FOR THE COMPLETE INSTALLATION AND PROJECT. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER FOR ALL FEES AND DATA NEEDED FOR THIS.

DEMOLITION NOTES

- ALL WORK SHOWN DASH AND DASHED IS TO BE DEMOLISHED. WORK SHOWN LIGHT IS EXISTING TO REMAIN.
- REFER TO ARCHITECTURAL PLANS FOR FURTHER EXTENT OF DEMOLITION REQUIREMENTS.
- ALL EXISTING PIPING SCHEDULED FOR DEMOLITION THAT ROUTES BELOW SLAB SHALL BE GROUND FLUSH WITH FLOOR, PLUGGED AND THE FLOOR PATCHED TO MATCH SURROUNDING FLOOR.
- COORDINATE ALL DEMOLITION WORK WITH OWNER.
- CONTACT UTILITY LOCATION SERVICE TO LOCATE EXACT LOCATION OF UTILITIES BELOW GRADE.
- MAINTAIN ALL EXISTING DEVICES, EQUIPMENT, ASSOCIATED CIRCUITS ETC. SHOWN AS EXISTING TO REMAIN OR OTHERWISE UNRELATED TO THE SCOPE OF WORK IN WORKING ORDER.
- CONTRACTOR SHALL REMOVE LAY-IN CEILING, LIGHT FIXTURES, ETC. AS REQUIRED FOR CONSTRUCTION WHERE NEEDED PRIOR TO DEMOLITION AND REPLACE SAME AFTER CONSTRUCTION. EXISTING CONDUITS ABOVE CEILING SHALL BE RELOCATED AND/OR TEMPORARILY REMOVED TO FACILITATE THE INSTALLATION OF NEW EQUIPMENT.
- THE OWNER SHALL REMOVE ALL ITEMS THEY DESIRED TO SALVAGE PRIOR TO CONSTRUCTION BEGINNING.
- NOTES AND DRAWINGS ARE BASED UPON A FIELD EXAMINATION OF THE SITE AND MAY NOT INDICATE ALL ITEMS. THE CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH THE SITE AND THE SCOPE OF WORK FOR THE CONTRACT PRIOR TO BID. ANY EXISTING CONDITION WHICH IS APPARENT OR COULD BE REASONABLY INFERRED FROM A VISIT TO THE SITE SHALL NOT BE THE BASIS FOR A CHANGE IN THE CONTRACT AMOUNT.
- REFER TO NEW WORK PLANS FOR ANY ITEMS THAT MAY REQUIRE RELOCATION AFTER DEMOLITION.
- PROPERLY DISPOSE OF ALL DEMOLISHED ITEMS OFF SITE.
- REMOVE ALL MISCELLANEOUS CONDUITS, PIPES, ETC. THOUGH NOT SPECIFICALLY SHOWN ON PLAN, THAT ARE EITHER UNUSED OR WILL BECOME UNUSED DUE DEMOLITION ACTIVITIES, IN ORDER TO PROVIDE A "CLEAN" SPACE FOR THE OWNER.
- PROTECT ALL EXISTING SURFACES AND EQUIPMENT DURING CONSTRUCTION. EXISTING ITEMS TO REMAIN SHALL BE ADEQUATELY PROTECTED FROM DEMOLITION AND NEW CONSTRUCTION WORK. AS REQUIRED, ANY ITEMS DAMAGED OR MARKED SHALL BE ADEQUATELY CLEANED OR REPLACED TO THE OWNER'S SATISFACTION TO ORIGINAL CONDITION BEFORE CONSTRUCTION.
- PATCH ANY HOLES IN STRUCTURE CREATED BY REMOVAL OF DUCTWORK, CONDUITS, PIPES, ETC.
- REMOVE ALL ITEMS SHOWN IN WALLS TO BE DEMOLISHED. ALL ELECTRICAL CONDUIT AND WIRING SHALL BE REMOVED BACK TO PANELBOARDS AND PROPERLY TERMINATED.
- SAW CUT FLOOR FOR THE INSTALLATION OF NEW SANITARY PIPING. REFER TO PLUMBING PLANS SHOWING NEW WORK.

SHEET INDEX

MEPO	Mechanical/Electrical/Plumbing - Cover Sheet
MEP1	Mechanical/Electrical/Plumbing - Specifications
MEP2	Mechanical/Electrical/Plumbing - Specifications
M101	Mechanical - Plans, Schedules & Details
P101	Plumbing - Plans, Schedules & Details
E101	Electrical - Lighting Plans, Schedules & Details
E201	Electrical - Power Plans, Schedules & Details

3RD STREET DISPENSARY

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REVISION DATES:



Kevin J. Zimmermann - Engineer
MOS PE-2017029408
PROFESSIONAL SEAL

MEPO
ISSUE DATE: 03/27/2020
PKMR # 19379

MECHANICAL, ELECTRICAL
& PLUMBING COVER SHEET

GENERAL MECHANICAL/ELECTRICAL SPECIFICATIONS

GENERAL MECHANICAL, ELECTRICAL AND PLUMBING REQUIREMENTS

1. **APPLICABILITY**
A. These general requirements apply to all divisions (21, 22, 23, 26, 27, 28). Refer to individual divisions as indicated for specific information regarding each trade or scope of work.
2. **GENERAL REQUIREMENTS**
A. Furnish & install all labor & materials required for complete, functioning, mechanical & plumbing systems w/ all associated equipment & apparatus as shown on plans.
B. Obtain & pay for all permits required for execution of this work & shall make arrangements for modifications to water, gas & sewer connections to building as required.
C. All materials shall be new & shall bare UL label where applicable.
D. Visit site & observe conditions under which work will be done. Any discrepancies shall be called to architect's attention. No subsequent allowance will be made in contract for any error or negligence on contractor's part.
E. Final acceptance of work shall be subject to condition that all systems, equipment, apparatus & appliances operate satisfactorily as designed & intended. Work shall include required adjustment of systems & control equipment installed under these specifications.
F. Warranty to owner quality of materials, equipment, workmanship & operation of equipment provided under these specifications for one year from date of final completion of building & acceptance of mechanical systems by owner.
G. All materials installed in plenums shall be noncombustible or have flame/smoke index of no more than 25.0 in accordance w/ ASTM e-84.
H. Requirements under Division one & general & supplementary conditions of these specifications shall be part of this section. Contractor shall become thoroughly acquainted w/ its contents as to requirements that affect this Division of work required under this section includes material, equipment, appliances, Transportation Services & labor required to complete entire system as required by drawings & specifications.
I. The specifications & drawings for project are complementary, & portions of work described in one, shall be provided as if described in both. In event of discrepancies, notify engineer & request clarification prior to proceeding w/ work involved.
3. **EXTENT OF CONTRACT WORK**
A. Provide MEP systems indicated on drawings, specified or reasonably implied. In addition to specific equipment called out in plans and specifications, provide every device, component, programming, interlocking and accessory necessary for proper operation and complete functional MEP systems.
B. In no case will claims for "Extra Work" be allowed for work about which Contractor could have been informed before bids were taken.
C. Contractor shall become familiar with equipment provided by other contractors that require plumbing connections and controls.
D. Electrical work required to install and control plumbing equipment, which is not shown on plans or specified under Division 26, shall be included in Contractor's base bid proposal.
E. All automatic temperature control devices shall be mounted as indicated in automatic temperature control section of specifications.
F. The cost of larger wiring, conduit, control and protective devices resulting from installation of equipment which was not used for basis of design as outlined in specifications shall be paid for by the supplying Contractor at no cost to Owner or Architect/Engineer.
G. Contractor shall be responsible for providing supervision to other trade Contractors to insure that required connections, interlocking and interconnection of MEP equipment is made to attain intended control sequences and system operation.
H. Contractor shall obtain complete MEP data set on shop drawings and shall list this data on an approved form that shall be presented on request to other trade Contractors. Data shall be complete with wiring diagrams received to date and shall contain necessary data on electrical components of plumbing equipment such as HP, voltage, ampere, volts, locked rotor current to allow other trade Contractors to support or other equipment coordinated as required in this contract.
4. **DEFINITIONS**
A. Whenever used in these specifications or drawings, following terms shall have indicated meanings:
B. Furnish: term "Furnish" is used to mean "supply & deliver to project site. Ready for unloading, unpacking, assembly, installation & similar operations."
C. Install: term "Install" is used to describe operation at project site including actual "unloading, unpacking, Assembly, Placement, Anchoring, Applying, working to dimension, Finishing, curing, protecting, clearing, & similar operations."
D. Provide: term "Provide" means "to Furnish & Install. Complete & ready for intended use." furnished by owner or furnished by others. Item will be furnished by owner or others. It is to be installed & connected under requirements of this Division, complete & ready for operation, including items incident to installation or services necessary for proper installation & operation. Installation shall be included under guarantee required by this Division.
E. Engineer: where referenced in this Division, "Engineer" is engineer of record & design professional for work under this Division, & is consultant to, & an authorized representative of, architect. As defined in general &/or supplementary conditions. When used in this Division, it means increased involvement by & obligations to, engineer, in addition to involvement by, & obligations to, "Architect".
F. AHJ: local code &/or inspection agency (authority) having jurisdiction over work.
G. The terms "Approved equal", "Equivalent", Or "Equal" are used synonymously & shall mean "acceptable by or acceptable to engineer as equivalent to item or manufacturer specified."
H. The term "approved" shall mean labeled, listed, Or both. By nationally recognized testing laboratory (e.g. UL, ETL, CSA), & acceptable to AHJ over this project.
5. **PREBID SITE VISIT**
A. Prior to submitting bid, Visit site of proposed work & become fully informed as to conditions under which work is to be done. Failure to do so will not be considered sufficient justification to request or obtain extra compensation over & above contract price.
6. **MATERIAL & WORKMANSHIP**
A. Provide new material, equipment, & apparatus under this contract unless otherwise stated herein. Of best quality normally used for purpose in good commercial practice & free from defects. Model numbers listed in specifications or shown on drawings are not necessarily intended to designate required trim, written descriptions of firm govern model numbers.
B. Pipe, fittings, specialties & valves shall be manufactured in USA. Work performed under this contract shall provide neat & "workmanlike" appearance when completed to satisfaction of architect & engineer. Workmanship shall be best possible by experienced mechanics. Installations shall comply w/ applicable codes & laws. Complete installation shall function as designed & intended w/ respect to efficiency, capacity, noise level, etc. Abnormal noise caused by rattling equipment, piping, ducts, air devices & squeaks in rotating components will not be acceptable. In general materials & equipment shall be of commercial specification grade in quality. Light duty & residential equipment will not be acceptable.
C. Remove from premises waste material present from work, including cartons, crating, paper, stickers, &/or excavation material not used.
D. Clean equipment installed under this contract to present neat & clean installation at completion.
E. Repair or replace public & private property damaged as result of work performed under this contract to satisfaction of authorities & regulations having jurisdiction.
7. **COORDINATION**
A. Coordinate work w/ other trades so various components of systems will be installed at proper time w/ fit available space & will allow proper space access for maintenance. Components which are installed without regard to above shall be relocated at no additional cost to owner.
B. Unless otherwise indicated, general contractor will provide chases & openings in building construction required for installation of systems specified herein. Contractor shall furnish general contractor or information where chases & openings are required.
C. Keep informed as to work of other trades engaged in construction of project & execute work in manner as to not interfere w/ or delay work of other trades. Figure dimensions shall be taken in preference to scale dimensions.
D. Contractor shall take his own measurements at building, as variations may occur. Contractor will be held responsible for errors that could have been avoided by proper checking & inspection.
E. Provide materials w/ trim that properly fit types of ceiling, wall, or floor finishes actually installed. Materials listed in specifications or shown on drawings are not intended to designate required trim.
F. Obtain equipment submittal information for all pieces of equipment to be

- connected to from other trades that clearly indicates all connection requirements, locations, sizes, and similar requirements. Obtain this information in ample time to coordinate other trade submittals and equipment coordination. Where requirements differ from that on plans or differs from provisions made in the work, immediately notify the architect/engineer. Do not proceed with work that is incompatible with equipment provided.
- G. Coordinate construction operations included in different sections of the specifications to ensure efficient and orderly installation of each part of the work. Coordinate construction operations, included in different sections, that depend on each other for proper installation, connection, and operation.
H. Each contractor shall coordinate its construction operations with those of other contractors and entities to ensure efficient and orderly installation of each part of the work. Each contractor shall coordinate its operations with operations, included in different sections, that depend on each other for proper installation, connection, and operation.
I. Schedule construction operations in sequence required to obtain the best results where installation of one part of the work depends on installation of other components, before or after its own installation.
J. Coordinate installation of different components with other contractors to ensure maximum performance and accessibility for required maintenance, service, and repair.
K. Make adequate provisions to accommodate items scheduled for later installation.
L. Where availability of space is limited, coordinate installation of different components to ensure maximum performance and accessibility for required maintenance, service, and repair of all components, including mechanical and electrical.
M. Prepare coordination drawings if limited space availability necessitates maximum utilization of space for efficient installation of different components or if coordination is required for installation of products and materials fabricated by separate entities. Contain project-specific information, drawn accurately to scale. Do not base coordination drawings on reproductions of the contract documents or standard printed data. Include the following information, as applicable:
1) Indicate functional and spatial relationships of components of architectural, structural, civil, mechanical, and electrical systems.
2) Indicate required installation sequences.
3) Indicate dimensions shown on the contract drawings and make specific note of dimensions that appear to be in conflict with submittal equipment and minimum clearance requirements. Provide alternate sketches to architect for resolution of such conflicts. Minor dimension changes and difficult installations will be considered changes to the contract.
N. Meetings: conduct project coordination meetings at regular intervals. Project coordination meetings are in addition to specific meetings held for other purposes, such as progress meetings and preinstallation conferences.
1) Attendees: each contractor, subcontractor, supplier, and other entity concerned with current progress or involved in planning, coordination, or performance of future activities shall be represented at these meetings. All participants at the conference shall be familiar with project and authorized to conclude matters relating to the work. Notify architect of meeting.
2) Agenda: review and correct or approve minutes of the previous coordination meeting. Review other items of significance that could affect progress.
3) Combined contractor's construction schedule: review progress since the last coordination meeting. Determine whether each contractor is on time, ahead or behind schedule, in relation to construction schedule. Discuss whether schedule revisions are required to ensure that current and subsequent activities will be completed within the contract time. Discuss impact of various contractor schedules upon other contractors and how to remedy impacts.
4) Review present and future needs of each contractor present.
O. After shop drawings have been reviewed and approved by all parties, transmit a set of submittals to be reviewed by other trades (Plumbing, Mechanical, Electrical, Controls, etc.) that will interface with installation. Other trade contractor shall review the submittal for coordination and return a stamped submittal indicating that owner's designated representative has been trained as specified herein. Letter shall include date, time, attendees & subject of training. Contractor & owner's representative shall sign certification letter indicating agreement that training has been provided. Schedule owner training w/ at least 7 days advance notice.
8. **ARCHITECTURAL VERIFICATION AND RELATED DOCUMENTS**
A. Contractor shall consult all Architectural Drawings and specifications in their entirety incorporating and certifying all millwork, furniture, and equipment rough-in including utility chases such as voltage, phase, amperage, pipe sizes, duct sizes, including height, location and orientation. Shop drawings incorporating these requirements should be submitted to the Architect for approval prior to installation or rough in.
9. **ORDINANCES & CODES**
A. Work performed under this contract shall, At minimum, be in conformance w/ applicable national, state & local codes having jurisdiction.
B. Installation work performed under this contract shall be in strict compliance w/ current applicable codes adopted by local AHJ including any amendments & standards as set forth by National Fire Protection Association (NFPA), Underwriters Laboratories (UL), Occupational Safety & Health Administration (OSHA), American Society of Mechanical Engineers (ASME), American Society of Heating, Refrigeration, & Air Conditioning Engineers (ASHRAE), American national standards institute (ANSI), American Society of Testing Materials (ASTM) & other national standards & codes where applicable.
C. Where contract documents exceed requirements of referenced codes, Standards, etc., contract documents shall take precedence.
D. Procure & pay for permits & licenses required for accomplishment of work herein as described. Where required, obtain & pay for & furnish certificates of inspection to owner. Contractor will be held responsible for violations of law.
10. **STANDARDS**
A. Drawings and specifications indicate minimum construction standard. Should any work indicated be sub standard by any ordinances, laws, codes, rules or regulations bearing on work, Contractor shall promptly notify Architect/Engineer in writing before proceeding with work so that necessary changes can be made. However, if the Contractor proceeds with work knowing it to be contrary to any ordinances, laws, rules, and regulations, Contractor shall thereby have assumed full responsibility for and shall bear all costs required to correct non complying work.
11. **PROTECTION OF EQUIPMENT & MATERIALS**
A. Store & protect from damage equipment & materials delivered to job site. Cover as required to protect from dirt & damage. Plug or cap open ends of ductwork & piping systems while stored & installed during construction when not in use to prevent entrance of debris into systems. Equipment & material that has been damaged by construction activities will be rejected, & contractor is obligated to furnish new equipment & material of the kind. Keep premises broom clean from foreign material created during work performed under this contract. Piping, equipment, etc. Shall have neat & clean appearance at completion.
12. **SUBSTITUTIONS**
A. The base bid shall include only products from manufacturers specifically named in drawings & specifications. No substitution will be considered prior to receipt of bids unless written request for approval to bid has been received by engineer at least ten calendar days prior to date for receipt of bids. Request shall include name of material or equipment for substitution & complete description of proposed substitute including drawings, cuts, performance & test data or other information for evaluation. Statement setting forth changes in other materials, equipment or other work that incorporation of substitute would require shall be included.
B. The intent of these specifications is to allow ample opportunity for Contractor to use his ingenuity and abilities to perform the work to his and the Owner's best advantage, and to permit maximum competition in bidding on standards of materials and equipment required.
C. Material and equipment installed under this contract shall be first class quality, new, unused and without damage.
D. In general, these specifications identify required materials and equipment by naming one or more manufacturer's brand, model, catalog number and/or identification. The first named manufacturer or product is used as the basis for design; other manufacturers named must furnish products consistent with specifications of first named product as determined by Engineer. Base bid proposal shall be based only on materials and equipment by manufacturers named, except as hereinafter provided.
E. Where materials or equipment are described but not named, provide required items of first quality, adequate in every respect for intended use. Such items shall be submitted to Architect/Engineer for review prior to procurement.
F. Materials and equipment proposed for substitutions shall be equal to or superior to that specified in construction, efficiency, utility, aesthetic design, and color as determined by Architect/Engineer whose decision shall be final and without further recourse. Physical size of substitute brand shall be no larger than space provided including allowances for access for installation and maintenance. Requests must be accompanied by complete descriptive and technical data including manufacturer's name, model and catalog number, photographs or cuts, physical dimensions, operating characteristics and any other information needed for comparison.
G. The burden of proof of merit of proposed substitute is upon proposer. Engineer's

- decision of approval or disapproval to bid of proposed substitution shall be final. Terms "approved", "approved equal", & "equal" refer to approval by engineer as an acceptable alternate bid. No substitutions will be considered that are not bid as an alternate.
- H. No material substitutions shall be considered for approval after to award of contract. Coordinate & verify w/ other trades whether or not substituted equipment can be installed as shown on construction drawings w/ proposed modifications to associated systems or architectural or engineering design. Include additional costs for architectural & engineering design fees in bid if drawing modifications are required because of substituted equipment.
13. **SHOP DRAWINGS**
A. Equipment to be furnished under this contract, items requiring coordination between contractors & sheet metal ductwork fabrication drawings. Before submitting shop drawings verify equipment submitted is mutually compatible & suitable for intended use & will fit available space & allow ample room for maintenance. Engineer's checking & subsequent approval of such shop drawings will not relieve contractor from responsibility for errors in dimensions, details, size of members, quantities, omissions of components or fittings; coordination of electrical requirements; or for coordinating items w/ actual building conditions. Proceed w/ procurement & installation of equipment only after receiving approved shop drawings relative to each item.
B. Submittal data shall be neatly organized, identified & indexed. Each item or model number shall be clearly marked & accessories indicated. Label catalog data w/ equipment identification acronym or number as used on drawings & include performance curves, capacities, sizes, materials, finishes, wiring diagrams & deviations from specified equipment or materials. Mark out inapplicable items. Shop drawings will be returned without review if above mentioned requirements are not met.
C. Requirements shall be met electrically & submitted as pdf in files less than 10mb.
D. Contractor's stamp, which shall certify that stamped drawings have been checked by contractor, comply w/ drawings & specifications, & have been coordinated w/ other trades.
E. Transmit submittals as early as required to support project schedule. Allow for two weeks to review time, plus duplication of this time for resubmittals, if required. Transmittal submitted as soon as possible after notice to proceed to begin before construction starts. Engineer's submittal reviews will not relieve contractor from responsibility for errors in dimensions, details, size of members, or quantities; or for omitting components or fittings; or for not coordinating items w/ actual building conditions.
F. Final copies shall be furnished to owner as part of O&M documents in hard & electronic format.
14. **OPERATION & MAINTENANCE INSTRUCTIONS**
A. Collect & compile complete brochure of equipment furnished & install on this project. Include operation & maintenance instructions, manufacturer's catalog sheets, wiring diagrams, parts lists, approved shop drawings, test & balance reports, & descriptive literature as furnished by equipment manufacturer. Include an inside cover sheet that lists project name, date, owner, architect, consulting engineer, general contractor, sub-contractor, & an index of contents. Submit three copies of literature bound in 3-ring binders w/ index & tabs separating equipment types to architect at termination of work. Final approval of plumbing systems will be withheld until manual is received & deemed complete by architect & engineer. Provide "as-built" drawings (see Division 1 & general conditions).
B. These requirements may shall also be provided to the owner in a well organized pdf electronic submittal & delivered on a DVD or USB thumbdrive.
15. **TRAINING**
A. Provide factory trained & authorized representative to train owner's designated personnel on operation & maintenance of equipment provided for this project. Provide training to include but not be limited to an overview of system, uniform of equipment as it relates to facility as whole; operation & maintenance procedures & schedules related to startup & shutdown, troubleshooting, servicing, preventive maintenance & appropriate operator intervention; & review of data included in operation & maintenance manuals. Submit certification letter to architect stating that owner's designated representative has been trained as specified herein. Letter shall include date, time, attendees & subject of training. Contractor & owner's representative shall sign certification letter indicating agreement that training has been provided. Schedule owner training w/ at least 7 days advance notice.
16. **SPARE PARTS**
A. Furnish to owner, w/ receipt one set of spare filters of each type required for each unit. In addition to spare set of filters, install new filters prior to testing, adjusting, & balancing work & before turning system over to owner.
17. **FURNISH ONE COMPLETE SET OF BELTS FOR EACH FAN.**
18. **EQUIPMENT LABELS**
A. Material and thickness: multi-layer, multicolor, plastic labels for mechanical engraving, 1/16 inch thick, and having predilled holes for attachment hardware. Thick letters on white background.
B. Minimum label size: length and width vary for required label content, but not less than 2-1/2 by 3/4 inch.
C. Minimum letter size: 1/4" for name of unit if viewing distance is less than 24 inches, 1/2" for viewing distances up to 72' & proportionately larger lettering for greater viewing distances. Include secondary lettering two-thirds to three-fourths size of primary lettering.
19. **WARRANTIES**
A. Warrant each system & each element thereof against all defects due to faulty workmanship design or material for period of 12 months from date of substantial completion unless specific items are noted to carry longer warranty in construction documents or manufacturer's standard warranty exceeds 12 months. Remedy all defects, occurring within warranty period(s) stated in general conditions & Division 1, Warranties shall include labor & material. Make repairs or replacements without any additional costs to owner. Perform remedial work promptly, upon written notice from engineer or owner.
B. At time of substantial completion, deliver to owner all warranties in writing & properly executed including term limits for warranties extending beyond one year period. Each warranty instrument being addressed to owner & stating commencement date & term.
20. **CUTTING & PATCHING**
A. Perform cutting of walls, floors, ceilings, etc. As required to install work under this section. Obtain permission from architect prior to cutting. Do not cut or disturb structural members without prior approval from architect. Cut holes as small as possible. General contractor shall patch walls, floors, etc. As required by work under this section. Patching shall match original material & construction. Repair & finish areas disturbed by work to condition of adjoining surfaces in manner satisfactory to architect.
21. **EXCAVATION AND BACKFILL**
A. Perform necessary excavation to receive work. Provide necessary sheathing, shoring, cribbing, bracing, etc. For this operation, and remove it at completion of work. Perform excavation in accordance with appropriate section of these specifications, and in compliance with osha safety standards.
B. Excavate trenches of sufficient width to allow ample working space, and no deeper than necessary for installation work.
C. Conduct excavations so no walls or footings are disturbed or injured. Backfill excavations made under or adjacent to footing with selected earth or sand and tamp to compaction required by architect, engineer. Mechanically tamp backfill under concrete and paviors in six inch layers to 95% standard density, reference Division 2.
D. Backfill trenches and excavations to required heights with allowance made for settlement. Tamp fill material thoroughly and moistened as required for specified compaction density. Dispose of excess earth, rubble and debris as directed by architect.
E. When available, refer to test hole information on architectural or civil drawings or specifications for types of soil to be encountered in excavations.
22. **ROUGH-IN**
A. Coordinate rough-in of general construction & other trades. Conceal piping & conduit rough-in except in unfinished areas & where otherwise shown.
23. **STRUCTURAL STEEL**
A. Structural steel used for support of equipment, ductwork & piping shall be new, clean, & conform to ASTM a-36. Support mechanical components from building structure. Do not support mechanical components from ceilings, other mechanical or electrical components, & other non-structural elements.
24. **ACCESS DOORS**
A. Provide access doors in ceilings, walls, etc. Where indicated or required for access or maintenance to concealed valves & equipment installed under this section. Provide concealed hinges, screwdriver-type lock, anchor straps, manufacture by Micor, Zum, Tuba, or equal. Obtain architect's approval of type, size, Location & color before ordering.
25. **PENETRATIONS**
A. Seal mechanical floor, exterior wall & roof penetrations watertight & weathertight.

- Seal around mechanical penetrations w/ 3M CP-22 fire barrier caulk (thickness as required & recommended by manufacturer) to maintain resistance rating of fire-rated assemblies. Provide prefabricated roof curbs manufactured by Custom Curb, Patco, Thyroco or approved equal. Provide roof curb w/ factory installed wood nailer, welded, 18 gauge galvanized steel shell, base plate & flashing, 1-1/2" thick, 3 pound rigid insulation, fully finished 3-inch raised cant, cover of weather-resistant, weather-proof material & pipe collar of weather-resistant material w/ stainless steel pipe clamps. Make roof penetrations by authorized roofing contractor when required.
26. **MOTORS & STARTERS**
A. Provide motors & starting equipment where not furnished w/ equipment package. Motors shall have copper windings, class B insulation, & standard squirrel cage w/ starting torque characteristics suitable for equipment served. Motors for air handling equipment shall be selected for quiet operation. Each motor shall be checked for proper rotation after electrical connection has been completed. Provide drip-proof enclosures for locations protected from weather & not in air stream of fan, & totally enclosed fan cooled enclosure for motors exposed to weather. Motors shall be manufactured by Century, GE, Westinghouse, or approved equal. Provide every motor, except fractional horsepower single phase motors w/ an approved type of "built-in" thermal overload protection, w/ motor starter. Each starter shall be provided w/ overload heaters sized to motor rating & every three phase motor starter shall have overload heaters in each phase. Ambient compensated heaters shall be installed whenever necessary. Unless noted otherwise, motor starters shall be furnished by Division 22/23 contractor for installation & connection by Division 26 contractor. Starters shall be Allen-Bradley, Clark, Furnas, Square D, or approved equal.
27. **ELECTRICAL WIRING**
A. Line voltage wiring shall be provided by Division 26. Line voltage control & interlock wiring for mechanical systems will also be provided by Division 26 contractor. Low voltage control wiring shall be provided by Division 22/23 contractor. Furnish wiring diagrams to Division 26 contractor as required for proper equipment hookup. Coordinate w/ Division 26 contractor actual wire sizing amps for submitted mechanical equipment to ensure proper installation.
28. **DISCONNECT SWITCHES**
A. Provide heavy-duty horsepower rated safety switches rated in accordance with NEMA enclosed switch standard KS-1, 1969 and 98 standard.
B. Each piece of electrical equipment shall be provided with a disconnecting means.
C. Equivalents by GE, Eaton, Siemens, Square D.
29. **REFRIGERANT & OIL**
A. Provide full refrigerant & oil charge in refrigeration systems. Maintain for full term of warranty.
30. **FINAL TESTING & ADJUSTMENTS**
A. Final system testing, Balancing & adjustments shall be performed by contractor certified by NEBB, AABC or other approved agency. Perform test readings on fans, units, coils, etc. & adjust equipment to deliver specified amounts of air or water. Prepare testing & balancing report log showing air supply quantities, air entering & leaving temperatures & pressures, fan & unit test readings, motor voltage & amp draws, etc. & submit PDF of final compilation of data to architect for evaluation & approval before final inspection of project. Balance air systems to within plus or minus 10 percent for terminal devices & branch lines & plus or minus 5 percent for main ducts & air handling equipment of amount of air shown on drawings. Further adjustments shall be made to obtain uniform temperature in spaces. Adjust equipment to operate as intended by specification. All bearings & replace bearings that have dirt or foreign material in them w/ new bearings without additional cost to owner. Balance contractor shall include in report any improperly installed or missing balancing devices that would negatively impact system operation. Adjust thermostats & control devices to operate as intended. Adjust burners, pumps, fans, etc. For proper & efficient operation. Certify to architect that adjustments have been made & that system is operating satisfactorily. Further adjustments shall be made to obtain uniform temperature in spaces, Calibrate, set, & adjust automatic temperature controls. Check proper sequencing of interlock systems & operation of safety controls.
31. **EQUIPMENT FURNISHED BY OTHERS**
A. Provide necessary equipment & accessories that are not provided by equipment supplier or owner to complete installation of cooking equipment, washing equipment, etc., furnished by others, in locations as indicated on drawings &/or described in general notes to this contractor. Equipment & accessories not provided by equipment supplier may include fuses, vents, inlets, associated roof racks & cases to outdoors, dampers, inline fans, roof fans, control interlocks, etc. As required for proper operation of complete system in accordance w/ manufacturer's instructions. Contractor shall be responsible for correct rough-in dimensions, & shall verify same w/ architect &/or equipment supplier prior to service installations.
32. **SETTING, ADJUSTMENT AND EQUIPMENT SUPPORTS**
A. Work shall include mounting, alignment and adjustment of systems and equipment. Set equipment level on adequate foundation and provide proper anchor bolts and isolation as shown, specified or required by manufacturers in installation instructions. Level, shim and groud equipment bases as recommended by manufacturer. Mount motors, align and adjust drive shafts and belts according to manufacturer's instructions.
B. Equipment failures resulting from improper installation or field alignment shall be repaired or replaced by Contractor at no cost to Owner.
C. Floor or pad for supported equipment shall be held in place solely by its own dead weight. Include anchor fastening in all cases.
D. Provide floor or slab mounting equipment with 3, 1/2" high concrete bases unless specified otherwise. Individual concrete pad shall be no less than 4" wider and longer than equipment, and shall extend no less than 2" from each side of equipment.
E. Provide each piece of equipment or apparatus suspended from ceiling or mounted above floor level with suitable structural support, platform or carrier in accordance with best-engineered practice. Verify that structural members of buildings are adequate to support equipment and unless otherwise indicated on plans or specified, arrange for their inclusion and attachment to building structure. Provide hangers with vibration isolators.
F. Submit details of hangers, platforms and supports together with total weights of mounted equipment to Architect, Engineer for review before proceeding with fabrication or installation.
33. **MISCELLANEOUS REMODELING WORK**
A. Remove all unused equipment, ductwork, piping & associated supports. Cap ductwork & piping at mains & seal air & water tight. Provide items of HVAC systems modification required because of building remodeling, as noted on drawings or necessary for proper operation. Match existing materials & construction techniques when modifying existing systems unless specified otherwise. Coordinate additional requirements w/ general contractor & architect. Seal airtight existing ductwork required to be abandoned in place or not in use at termination of work. Cap & seal weathertight existing roof curbs & roof openings to be abandoned in place as result of equipment removal. Clean & rebalance existing ductwork, diffusers, registers, & grilles intended for reuse as required or as indicated on drawings. Clean & refurbish existing HVAC equipment intended for reuse as required for proper operation including replacement of filters, belts, motors, remote controls, & safety interlocks.
34. **FIRE BARRIERS**
A. General: for penetrations through fire-resistance-rated constructions, including both empty openings and openings containing penetrating items, provide through-penetration firestop systems that are produced and installed to resist spread of fire according to requirements indicated, resist passage of smoke and other gases, and maintain original fire-resistance rating of construction penetrated.
B. Welding electrodes shall be type and material recommended by electrode manufacturer for materials to be welded. All pipe and fittings ends shall be beveled a minimum of 30 degrees prior to welding.
C. Only welders who have successfully passed welder qualifications tests in previous 12 months for type of welding required shall do welding. Each welder shall identify his work with a code marking before starting any welded pipe fabrication. Contractor shall submit three copies of a list of welders who will work on project listing welder code, date and types of latest qualification test passed by each welder.
D. Welded joints shall be fusion welded in accordance with level ARS of American Welding Society standard AWS D10.9 "Standard For Qualification Of Welding Procedures And Welders For Pipe And Tubing". Welders qualified under national certified pipe welding bureau will be acceptable.
E. Bevel all piping and fittings in accordance with recognized standards by flame cutting or mechanical means. Align and position parts so that branches and fittings are set true. Make changes in direction of piping system in factory made welding fittings. Make branch connections with welding tees or forged weldolet.

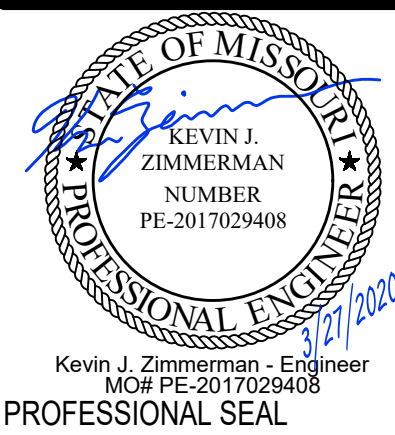
END OF GENERAL MEP REQUIREMENTS

3RD STREET DISPENSARY

510 SW 3RD ST. LEE'S SUMMIT, MO 64063

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REVISION DATES:



Kevin J. Zimmermann - Engineer
MO# PE-2017029408
PROFESSIONAL SEAL

MEP1

ISSUE DATE: 03/27/2020
PKMR #: 19379

MECHANICAL, ELECTRICAL & PLUMBING SPECIFICATIONS

MECHANICAL SPECIFICATIONS

DIVISION 210000 - FIRE SPRINKLER SYSTEM MODIFICATIONS

1. FIRE SPRINKLER GENERAL REQUIREMENTS

A. Refer to GENERAL MECHANICAL, ELECTRICAL & PLUMBING requirements

2. SYSTEM DESCRIPTION

A. Provide modifications to existing wet or combination wet/dry sprinkler systems as required for building, or areas of work shown on drawings, complete w/ alarm valves, drain valves, mains, risers, branches, sprinkler heads, test pipes, gauges, remote electric bell & detectors shown or required. Coordinate all wiring & conduit for a complete & functional installation.

B. An approved automatic sprinkler contractor shall perform all work under this heading. System shall be installed in strict accordance w/ NFPA 13 Underwriters Laboratories (UL), & must be acceptable to owner's insurer, authority having jurisdiction & all applicable local, state & national codes & standards. Where contract documents exceed requirements of referenced codes, standards, etc., contract documents shall take precedence.

C. Sprinkler system shall be certified. Contractor shall retain certification unit. Contractor turns copies of certificates & permits over to owner. Contractor shall be approved & state licensed for design & installation of fire protection systems. Work done under this section shall be performed only by a contractor whose workmen are experienced & regularly engaged in installation of fire protection systems.

D. System shall be hydraulically designed. Design of sprinkler system shall coordinate main & branch lines w/ structure, ceilings, piping, ductwork & light fixtures. Entire building shall be sprinkled.

E. Work shall include, but shall not necessarily be limited to following: design & installation of a complete wet/dry fire protection sprinkler system for project space. Portions of systems subject to freezing or temperatures below 40° F shall be protected against freezing as required by NFPA 13. Contractor shall be responsible for repair & for all costs incurred from damage caused by freezing of fire protection system.

3. SYSTEM DESIGN

A. This contractor shall verify design criteria & rating hazards with owner's insurer prior to designing system. Waterflow & pressure test data shall be acquired before system is calculated & be dated not more than 12 months prior to submittal of sprinkler drawings.

B. Contractor shall verify with authority having jurisdiction any minimum safety factor requirements. Regardless, demand shall not be less than 10% below supply at demand point.

C. The contractor shall be fully responsible for hydraulic calculations, arrangements for & cost of flow tests, final system design, & layout of all components of system as required for approval by owner's insurer, authority having jurisdiction & all applicable local, state & national codes & standards.

D. The contractor shall be fully responsible for coordinating system layout with other contractors. Changes to system design due to lack of coordination shall be paid for by contractor.

E. Sprinkler spacing shall conform to NFPA 13. Extended coverage sprinklers shall not be used in unfinished (ceiling) spaces. Hydraulic area of operation shall not be reduced as allowed by NFPA 13 for areas utilizing quick response sprinklers.

4. SHOP DRAWINGS

A. Shop drawings & hydraulic calculations shall be furnished to architect & engineer, for his approval. Architect will forward one set to contractor after final approval. Submitted shop drawings shall bear a stamp indicating approval by authority having jurisdiction. Provide drawings electronically in pdf format.

B. Shop drawings shall meet requirements of NFPA 13 & shall include following:

1) Submit working plans per NFPA 13 including layout drawings of complete sprinkler system indicating relationship of sprinkler piping & sprinklers to all other overhead items including ceiling grid & tiles, light fixtures, diffusers, registers, grilles, ductwork, etc. Location of risers, piping, etc., shall be as inconspicuous as possible & shall fulfill all functional requirements. System design capabilities & water demands shall also be noted on drawings.

2) Submit complete details & sections as required to clearly define & clarify design, including a material list describing all proposed materials by manufacturer's name & catalog number.

3) Hydraulic calculations.

4) Product data for all fire sprinkler system components. Provide next to sprinkler riser main, a printed sheet, protected by glass or a transparent plastic cover, giving brief instructions regarding control, emergency procedure & other data as required by NFPA 13. For hydraulically designed systems, a placard must be permanently attached to riser indicating location, & basis of design (discharge density & system demand).

5. SYSTEM MANUAL

A. Upon completion of installation, & as a condition of its acceptance, contractor shall complete three & 1/2" by 11" manuals, firmly bound in heavyweight plastic or paper cover to withstand hard use. Loose-leaf binding is not acceptable. Manuals shall be delivered to architect, in one, contact listing following items:

- 1) Identification clearly visible on or through cover, name of project & "fire sprinkler system manual"
- 2) Neatly typed index at front with all emergency information clearly identified.
- 3) Complete list of all system components with manufacturer's names, catalog numbers, & all data for each component.
- 4) One copy of record drawings, as described above.
- 5) All information required to secure emergency repairs or service.
- 6) Contractor's "material & test certificate(s)" for sprinkler system", as described in NFPA 13.

6. SPRINKLER HEADS

A. Sprinkler heads - as required by NFPA 13 manufactured by Central, Viking, Star, Reliable, Ginnell, Automatic. Semi recessed chrome plated brass where exposed. Sidewall where required. Rough brass where concealed & exposed in work areas.

mechanical rooms. Concealed heads where located in sheet rock ceilings. Provided w/ necessary hardware for mounting into hard or acoustical ceilings. Reference architectural drawings for ceiling locations. Where no ceilings occur, provide standard brass upright or pendant as provided by construction.

B. Sprinkler heads shall be underwriters-approved, automatic spray type. Temperature rating of heads shall be 165 deg F, except Fennel 212 deg F. Heads where required.

C. Location of sprinkler heads is not shown on drawings but nevertheless shall be furnished & installed in accordance with requirements & as noted below. Contractor shall furnish in 2x2 tile spacing in acoustic ceilings. Location of heads shall be as approved by architect. Provide head guards where required by NFPA. Furnish spin down heads & wrenches mounted in metal cases where directed by architect & as required by NFPA.

7. PIPE, FITTINGS, & HANGERS

A. Sprinkler piping 2-1/2" & larger shall be schedule 40 or schedule 40 black steel. Sprinkler piping 2" & smaller shall be schedule 40. Pipes shall have welded, threaded, or mechanically joined fittings, based on pipe material & size per NFPA 13 requirements. Piping shall be UL listed & FM approved.

B. Acceptable alternatives to schedule 40 is schedule 40 pipe shall be manufactured to standards recognized by NFPA 13. Threaded pipe shall have a workman are experienced & regularly engaged in installation of fire protection systems. Use threaded thimble pipe with corrosion resistance rating less than 1.0 not permitted.

C. Hangers shall be of type & spacing to support pipe & meet approval of UL & FM. Hangers shall be attached to structural components only. Support risers from structure below. Do not support exposed risers from clamps above floor.

D. Conceal mains back or above construction in finished areas. Piping shall be designed to provide maximum head room in all areas. Piping shall not pierce ductwork.

E. Do not dry pipe sprinkler piping to drain according to NFPA requirements, without exception & without traps. Wet pipe sprinkler systems may be pitched to drain or run full, but piping must be installed straight & true, without traps.

F. Provide drain valves & inspector test valves as necessary to drain system & meet requirements of NFPA.

8. TESTING & ACCEPTANCE

A. Upon completion of each phase of installation, each system shall be tested in conformance with local code requirements & as noted below. Contractor shall furnish all labor & equipment required to properly test all sprinkler equipment installed under this contract & he shall assume all costs involved in making tests, & repairing & for replacing all damage resulting therefrom.

B. Upon completion of systems installation, & prior to acceptance by engineer & owner, this contractor shall make general operating tests to demonstrate that all equipment & systems are in proper working order, & are functioning in conformance with intent of drawings & specifications.

C. After completion of installation, tests, & make all corrections necessary to secure acceptance by fire marshal &/or any other authority having jurisdiction. Furnish all test equipment & personnel required.

D. After completion of all installation, tests, etc., & prior to final acceptance date, contractor shall instruct building owner & his selected personnel in operation of sprinkler system & procedure to conduct quarterly main drain tests as required by NFPA 25.

9. EXECUTION

A. All modifications & additions shall be performed without hampering proper operation of remaining system. Shop drawing submittals shall indicate by calculation total system compliance.

B. Provide installation of water flow switches & tamper switches on bypass lines & shut off valves. Wiring by electrical contractor. Coordinate w/ fire alarm system.

C. Submittals & calculations to state fire marshal, owner's insurer, authority having jurisdiction & local building officials for approval.

D. Furnish all gauges, pumps, compressors & equipment required to perform tests. Coordinate all scheduling & work with other trades as to prevent conflicts, & to ensure orderly progress of work, with a minimum of interruption. When sprinkler piping is installed without coordinating with other trades & conflicts occur, sprinkler piping shall be relocated as required at no additional cost to owner to resolve conflicts.

E. Piping in areas having ceilings, other than underside of roof deck, shall be concealed. Piping in areas without ceilings may be exposed but kept at a minimum distance from deck. All piping shall be clean & free of rust. Install supply ducts that all piping is rigidly secured & supported. All ductwork, lights, structural members & hangers shall be installed on a horizontal line with the hands up, and within 15 degrees of vertical. Buttery valves shall be installed with the stem in the horizontal position and the handle at 90 degrees of vertical.

3) Valves installed in piping systems shall be compatible with system maximum test pressure, pipe materials, pipe joining method, and fluid or gas conveyed in system.

5. FITTINGS

A. See schedules for further requirements and specific fixtures.

B. Fixtures: American Standard, Kohler, Crane, Zurn, Toto.

C. Stainless steel fixtures: Elkay, Joint, Moen Commercial

D. Fittings & supplies: Josam, Smith, Wade, Zurn, Or Jespeck.

E. Seats: Church, Osonite, Bemis or Berneke.

F. Drinking fountains: Halsey Taylor, Elkay, Oasis, or Haws.

G. Timb Moen, Delta, Eljer, Kohler, American Standard, Crane, Sloan.

H. Flushvalves: Sloan, Zurn, Toto

I. Drains by Wesco, Zurn, Woodford, Smith, Josam.

J. Roof drains - cast iron Zurn roof drain w/ flange, GI mushroom dome, 2" dam for overflow drains

K. Wall drains/Joan series 7100W w/ connections for 1/2" pipe & hose.

L. Flushvalves: Sloan, Zurn, Toto

M. Downspout nozzles - Wade series 3940 cast bronze downspout nozzles w/ threaded outlet & flange to secure nozzle to wall.

N. Caulk around fire protection penetrations with approved fire caulking.

O. Seal all fire protection floor, wall & roof penetrations watertight & weathertight.

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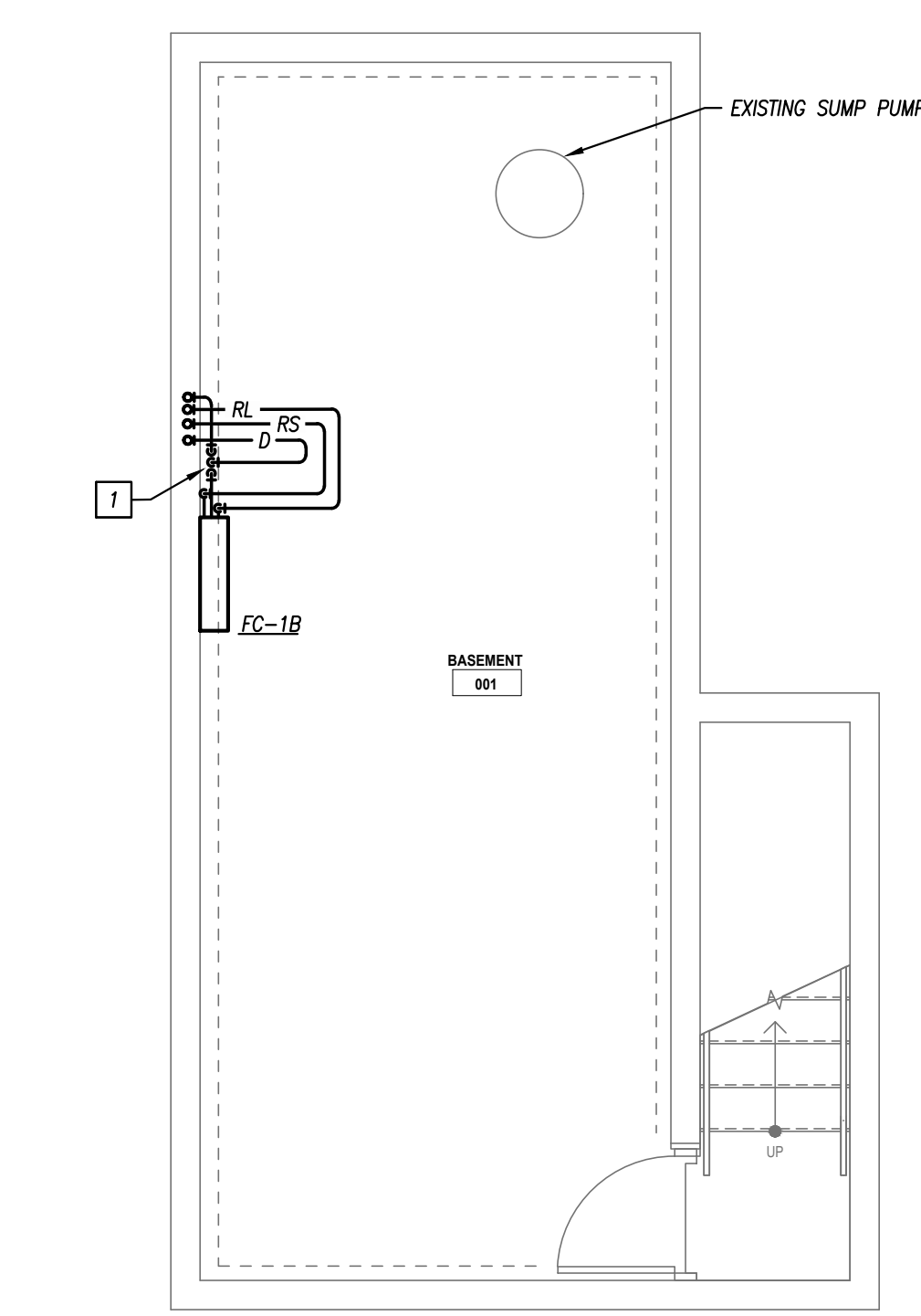
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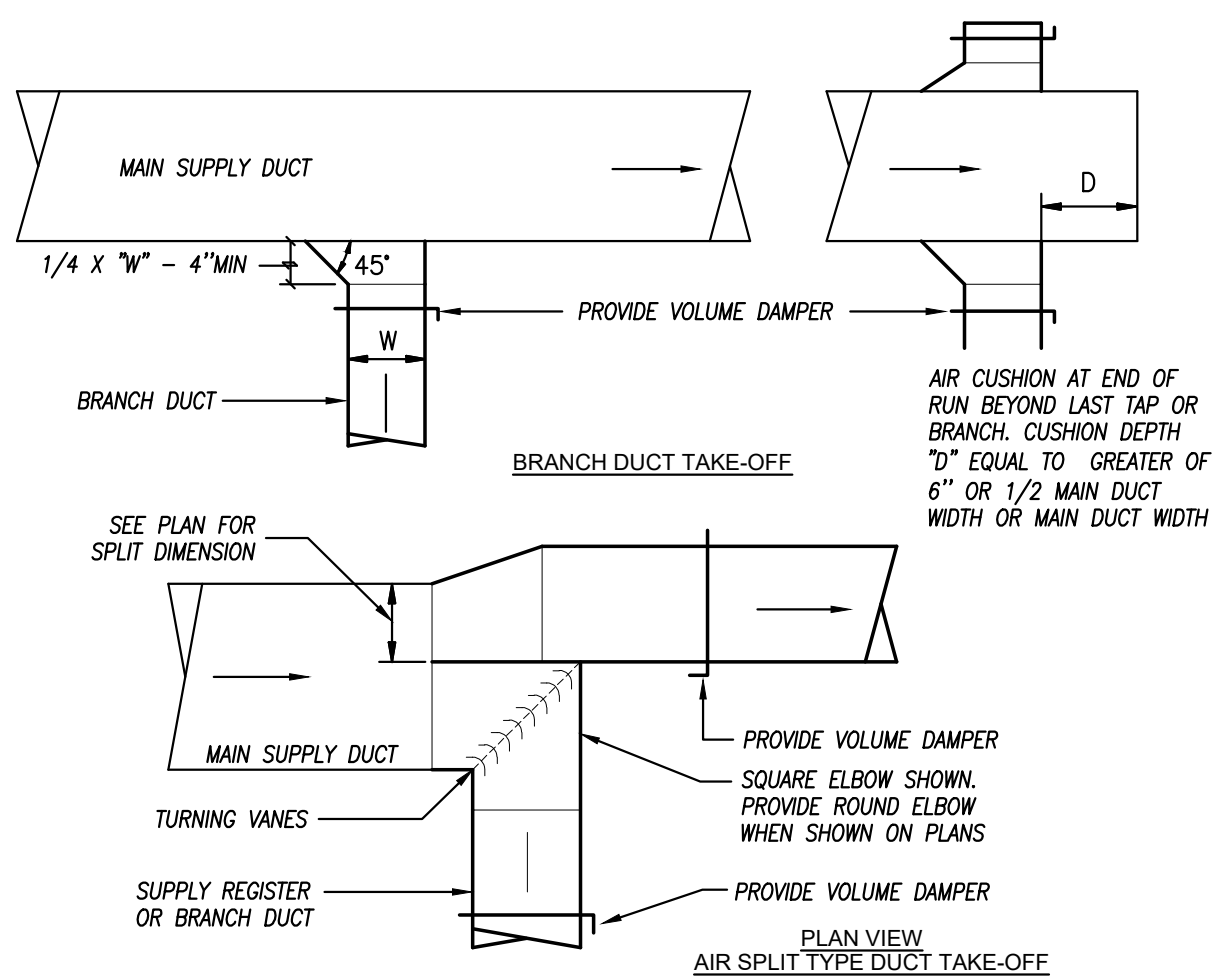
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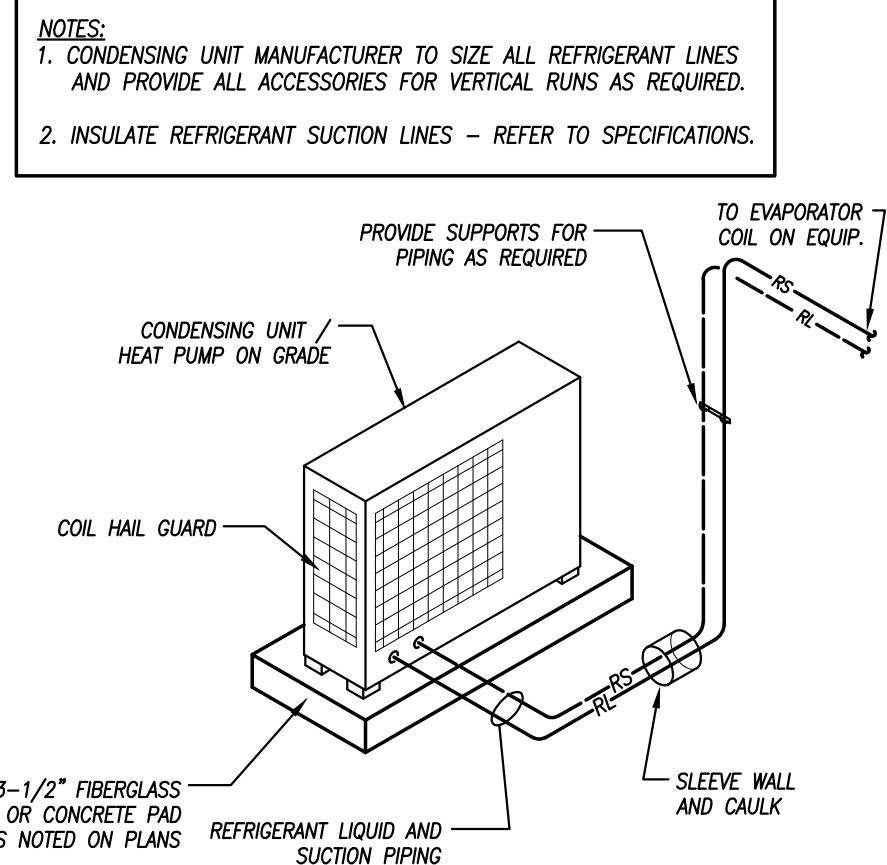
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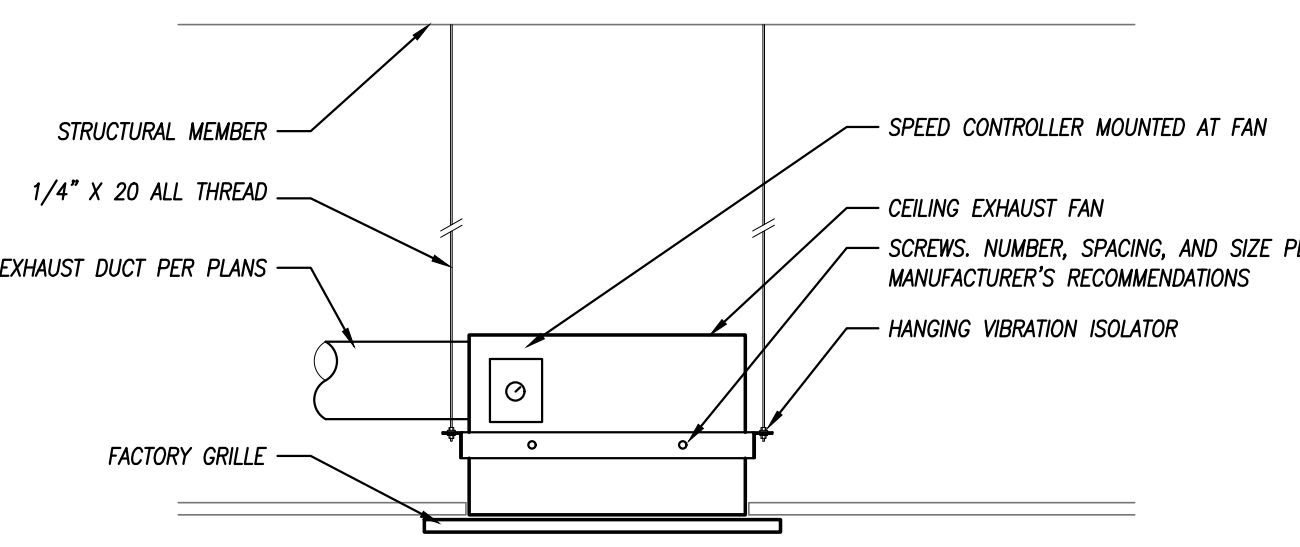
BASEMENT - FLOOR PLAN - HVAC
1/4" = 1'-0"



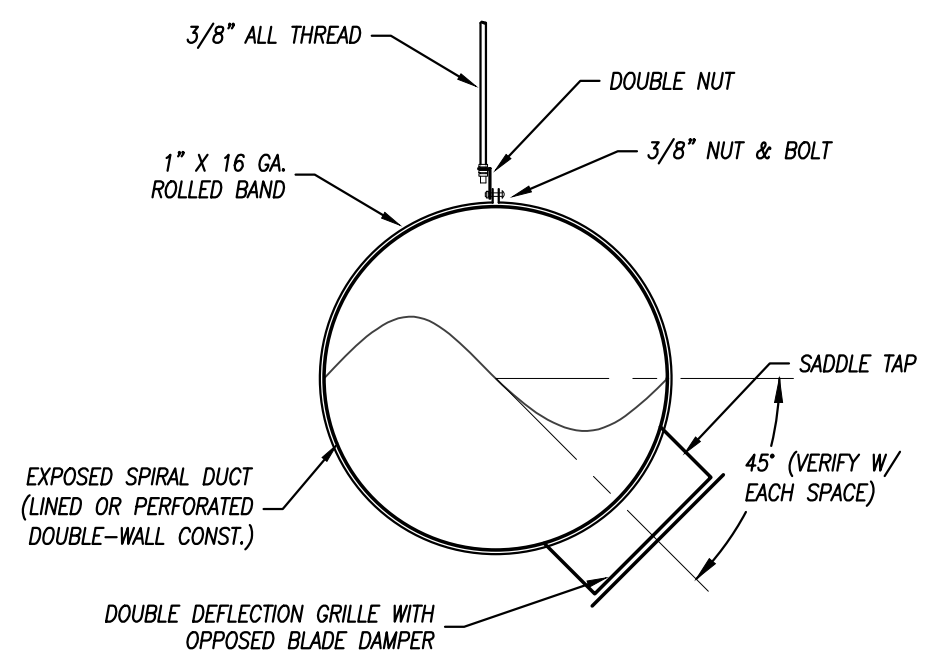
DUCTWORK TAKEOFFS
NOT TO SCALE 552-01



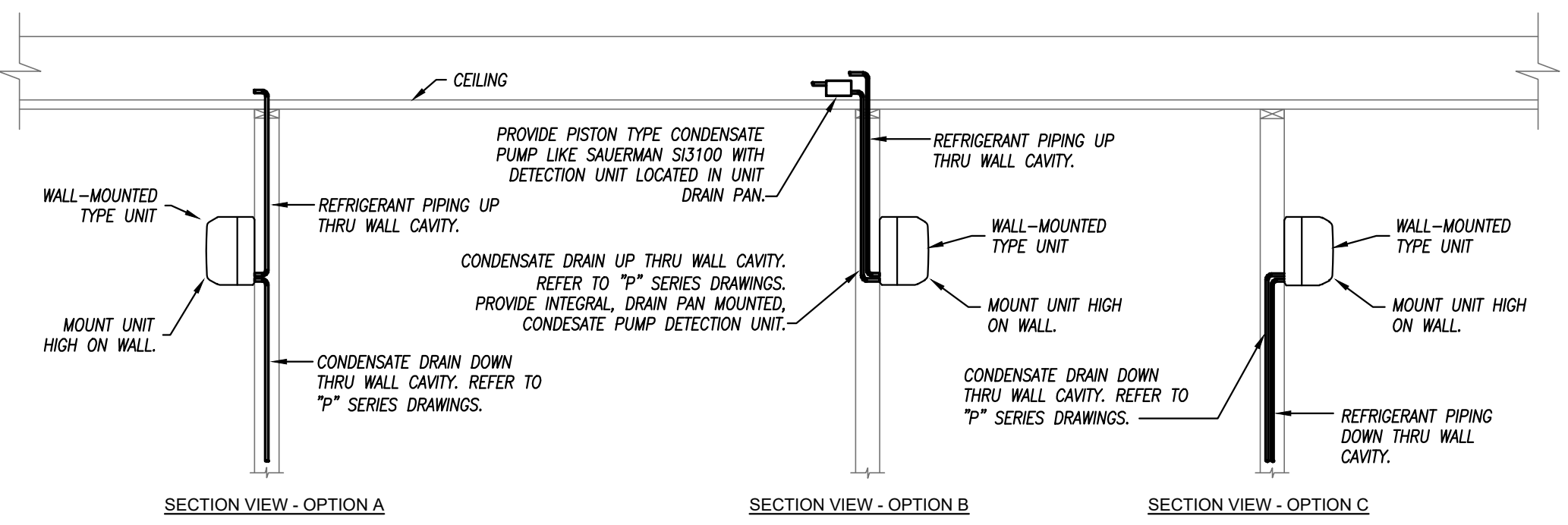
MINI SPLIT CONDENSING UNIT / HEAT PUMP DETAIL
NOT TO SCALE NEW DETAIL



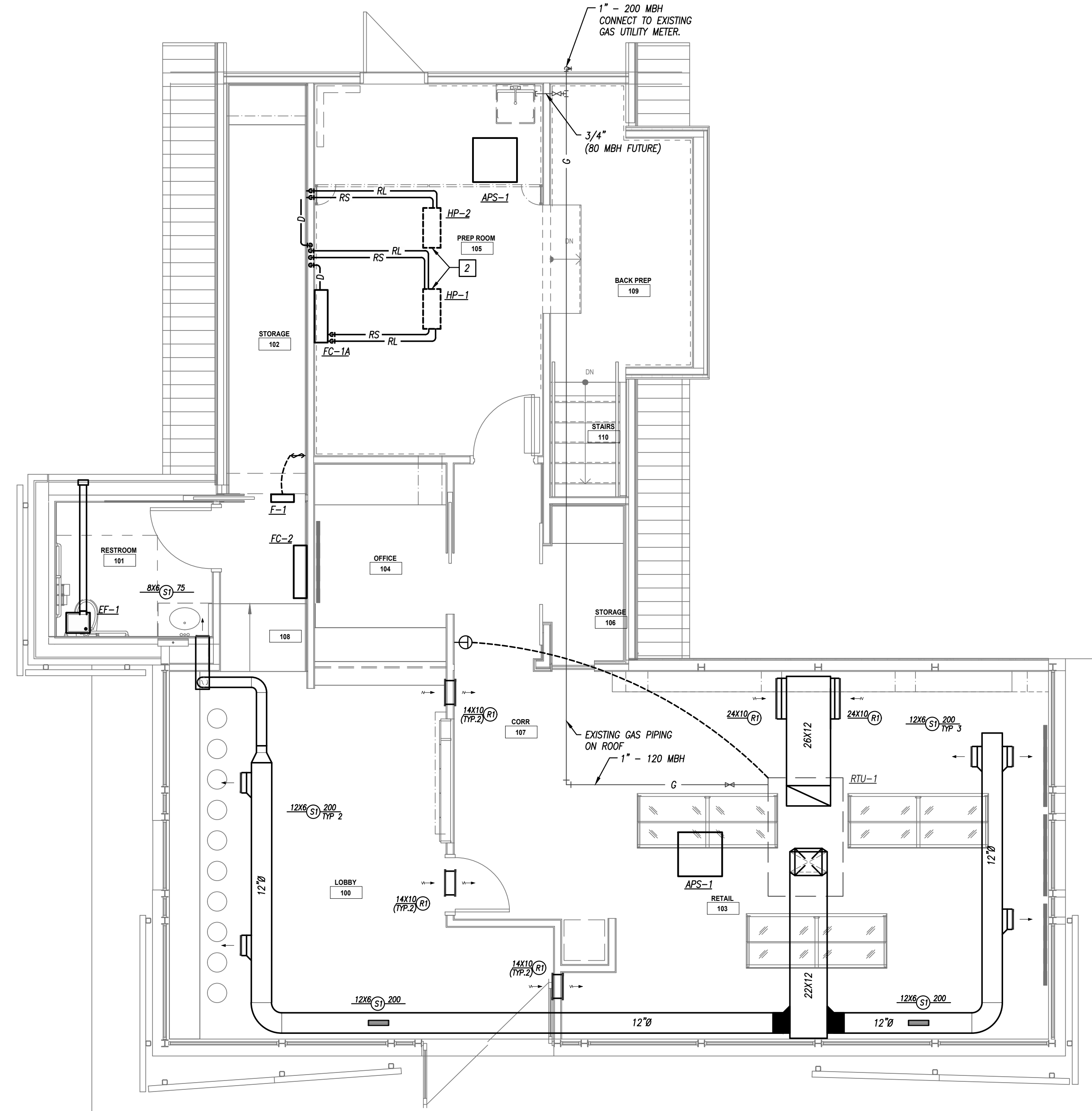
CABINET EXHAUST FAN MOUNTING DETAIL
NOT TO SCALE 562-06



ROUND DUCTWORK AND SIDEWALL GRILLE DETAIL
NOT TO SCALE 555-08



WALL-MOUNTED INDOOR UNIT DETAILS
NOT TO SCALE 576-01



FIRST - FLOOR PLAN - HVAC
1/4" = 1'-0"

AIR PURIFICATION SYSTEM SCHEDULE									
PLAN MARK	MANUFACTURER	MODEL NUMBER	TYPE	FAN DATA		ELECTRICAL	CONTROL	REMARKS	
				CFM	HP				
APS-1	GLOBAL PLASMA SOLUTIONS	GPS-300	CEILING CASSETTE	300	122W	120V / 1PH	SWITCH	1,2	

REMARKS:
1. UNIT SHALL BE PROVIDED WITH WASHABLE MESH PREFILTER, CARBON FILTER, 99.97% HEPA FILTER, UV LAMP, NEEDLEPOINT BI-POLAR IONIZATION, SWSI MOTORIZED IMPELLER.
2. PROVIDE WITH WIRELESS REMOTE CONTROL.

EXISTING ROOFTOP UNIT SCHEDULE (GAS HEAT)													
PLAN MARK	MANUFACTURER	MODEL	CFM	O.A. CFM	FAN DATA			COOLING COIL			GAS HEATING		
					E.S.P. (IN)	HP	EAT (DBWB)	LAT (DBWB)	T/S CAPACITY	INPUT (MBH)	OUTPUT (MBH)	EAT/LAT (F)	VOLTS/PH
RTU-1	TRANE	YSC048-H	1,600	320	0.50	1.0	80/67	58.6/58.4	45.5/35.5	120.0	96.0	56/111	230V / 3PH

REMARKS:
1. COOLING CAPACITIES BASED ON 105° AMBIENT TEMPERATURE.
2. FURNISH WITH INTEGRAL SINGLE-POINT ELECTRICAL DISCONNECT.
3. FURNISH WITH ROOF CURB AND RAIL GUARDS.

EXHAUST FAN SCHEDULE													
PLAN MARK	MANUFACTURER	MODEL NUMBER	TYPE	SERVICE	FAN DATA				ELECTRICAL	CONTROL	NOTES	REMARKS	
					CFM	E.S.P. (IN)	BHP	DRIVE					
EF-1	COOK	GC-146	CEILING CABINET	BATHROOM	90	0.250	---	36W	DIRECT	1.3	900	120V / 1PH	SWITCH
F-1	BROWN	510	ROOM-TO-ROOM FAN	STORAGE	180	---	---	DIRECT	4.5	1,575	120V / 1PH	SWITCH	

REMARKS:
1. UNIT SHALL BE PROVIDED WITH SOLID STATE SPEED CONTROL.
2. PROVIDE WITH CONTROLLER SWITCH.
3. PROVIDE WITH STARTER AND WIRE TO START SWITCH.
4. PROVIDE WITH ALL UL REQUIRED GREASE TRIM AND COMPONENTS.

GRILLE, REGISTER & DIFFUSER SCHEDULE													
PLAN MARK	MANUFACTURER	MODEL NUMBER	MATERIAL	STYLE	DESCRIPTION	MOUNT TYPE	FACE SIZE (IN)	NECK SIZE (IN)	VOLUME DAMPER	MAX APD (IN. WG.)	MAX NO.	FINISH COLOR	REMARKS
SUPPLY													
S1	TITUS	350RS	STEEL	WALL/CEILING GRILLE	DOUBLE DEFLECTION 3/4" SPACING AEROBLADE	FLANGE	DUCT + FRAME	AS INDICATED	YES - 0.8	0.07	30	WHITE	
RETURN													
R1	TITUS	350RL	STEEL	SQUARE WALL	35 DEG SINGLE DEFLECTION AEROBLADE 3/4" SPACING	WALL	AS INDICATED	AS INDICATED	NO	0.08	25	WHITE	

GENERAL REMARKS:
1. PROVIDE ALL GRD WITH ALL NECESSARY MOUNTING HARDWARE.
2. PROVIDE GRD WITHOUT SORHOLE WHEN INSTALLED IN LAY-IN CEILING.
3. VERIFY CEILING CONFIGURATION, COLOR AND SPECIES WITH ARCHITECTURAL CEILING PLANS.

NOTES:
1. PROVIDE WITH INSULATED PLENUM.
2. LENGTH AS INDICATED ON PLANS.
3. PROVIDE ROUND NECK ADAPTER WHERE SHOWN WITH ROUND CONNECTION.
4. COORDINATE FINISH WITH ARCHITECT. PROVIDE GALVANIZED OR WALL FINISH WHERE DUCTWORK IS NOT TO BE PAINTED. PROVIDE PRIME PAINTABLE FINISH WHEN DUCTWORK IS TO BE PAINTED.

FAN COIL SCHEDULE									
PLAN MARK	MANUFACTURER	MODEL NUMBER	CFM	E.S.P. (IN. W.C.)	TOTAL COOLING CAPACITY (MBH)	TOTAL HEATING CAPACITY (MBH)	ELECTRICAL		
							VOLTAGE	MCA	MOC
FC-1A	MITSUBISHI	MSZ-GL09NA	300	0.5	9.0	10.9	230V / 1PH	1.0	15
FC-1B	MITSUBISHI	MSZ-GL09NA	300	0.5	9.0	10.9	230V / 1PH	1.0	15
FC-2	MITSUBISHI	MSZ-GL12NA	400	0.5	12.0	14.4	230V / 1PH	1.0	15

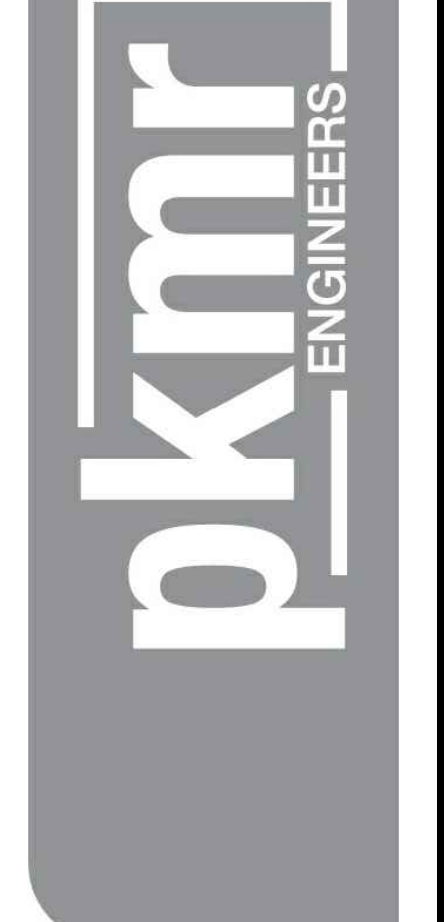
REMARKS:
1. CAPACITIES AND AIRFLOWS ARE MANUFACTURER'S VALUES AT RATED CONDITIONS, NOT ACTUAL OPERATING CONDITIONS.
2. PROVIDE WITH WIRELESS REMOTE CONTROLLER.

HEAT PUMP UNIT SCHEDULE									
PLAN MARK	MANUFACTURER	MODEL NUMBER	COOLING CAPACITY (MBH)	HEATING CAPACITY (MBH)	MINIMUM SEER	AMBIENT TEMP. (°F)	ELECTRICAL		
							VOLTS / PH	M.C.A.	M.O.C.P.
HP-1	MITSUBISHI	MXZ-2C20NA	20.0	22.0	17.0	105°	230V / 1PH	29.5	40
HP-2	MITSUBISHI	MUZ-GL12NA	12.0	14.4	23.1	105°	230V / 1PH	9.0	15

REMARKS:
1. HEAT PUMP SHALL OPERATE DOWN TO -13°F.
2. PROVIDE WITH INTEGRAL CIRCUIT BREAKER DISCONNECT.

- GENERAL NOTES**
- REFER TO GENERAL NOTES ON MEP COVER SHEET FOR ADDITIONAL REQUIREMENTS OF WORK.
 - ROUND BRANCH DUCT RUNOUTS AND FLEXIBLE DUCT SHALL BE THE SAME SIZE AS THE DIFFUSER NECK UNLESS NOTED OTHERWISE.
 - MAXIMUM FLEXIBLE DUCT LENGTH SHALL BE 5'-0".
 - ALL AIR DISTRIBUTION DEVICES SHALL HAVE LOCKABLE VOLUME CONTROL DEVICES.
 - ALL 90 DEGREE TURNING ELBOWS SHALL BE SMOOTH ROUND OR SQUARE WITH TURNING VANES.
 - DUCT SIZES SHOWN ON PLANS ARE INSIDE FREE AREA.
 - FOR BALANCING THE OUTSIDE AIRFLOW QUANTITIES, REFER TO HVAC SCHEDULES.

- PLAN KEYED NOTES**
- ROUTE CONDENSATE DRAIN TO OPEN HUB DRAIN. REFER TO PLUMBING PLAN.
 - INSTALL HEAT-PUMPS AT ATTIC SPACE.



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MECHANICAL - PLANS,
SCHEDULES & DETAILS

12 11 10 9 8 7 6 5 4 3 2 1



WATER HEATER SCHEDULE - ELECTRIC

FLOOR DRAIN SCHEDULE

PLAN MARK	MANUFACTURER	MODEL NUMBER	SERVICE	TOP/GRATE SIZE	WASTE SIZE	REMARKS
FD	WADE	1100	FLOOR DRAIN	6"Ø	2"	1
<u>REMARKS:</u> 1. PROVIDE WITH NICKEL BRONZE TOP.						



- ## GENERAL NOTES

1. REFER TO GENERAL NOTES ON MEP COVER SHEET FOR ADDITIONAL REQUIREMENTS OF WORK.
2. REFER TO PLUMBING FIXTURE / DRAIN SCHEDULES FOR PIPING SIZES FOR INDIVIDUAL CONNECTIONS TO FIXTURES AND RISERS NOT SHOWN ON PLANS.
3. NO SANITARY OR VENT PIPING BELOW GRADE SHALL BE LESS THAN 2".
4. NO DOMESTIC WATER PIPING SHALL BE SMALLER THAN 3/4" UNLESS NOTED OTHERWISE.
5. ALL VENT PIPING SHOWN IS DIAGNOSTIC. USE APPROVED FITTINGS FOR VENT PIPING BELOW FLOOD RM OF FIXTURE.
6. NOT ALL INTERIOR CLEANOUTS ARE SHOWN FOR DRAWING CLARITY. CONTRACTOR SHALL INSTALL ALL CODE-REQUIRED CLEANOUTS (SEE GENERAL NOTES ON DWG) AND COORDINATE EXACT LOCATIONS OF CLEANOUTS WITH ARCHITECT.
7. PROVIDE TRAP SEAL DEVICE FOR ALL FLOOR DRAINS.

PLAN KEYED NOTES

- 1) REFER TO BASEMENT PLAN FOR CONTINUATION.
- 2) 1/2" DOWH, 3/4" DCW, AND 4" SATINITY PIPE ROUTED UNDERGROUND.
- 3) CONNECT LAUNDRY TUB SATINITY PIPE TO EXISTING MAIN GOING DOWN IN BASEMENT.
- 4) LAUNDRY TUB AND WALL HYDRANT DOMESTIC WATER PIPED FROM BELOW.
- 5) 1/2" DOWH AND 3/4" DCW UP TO SERVE LAUNDRY TUB AND WALL HYDRANT.
- 6) REFER TO FIRST FLOOR PLAN FOR CONTINUATION.
- 7) 1/2" DOWH, 3/4" DCW, AND 4" SATINITY PIPE ROUTED UNDERGROUND TO SERVE RESTROOM ON FIRST FLOOR.
- 8) CAP EXISTING SATINITY PIPE.
- 9) 2" SATINITY SANITARY PIPED FROM LAUNDRY TUB ON FIRST FLOOR TO EXISTING SATINITY STACK.
- 10) REFER TO FIRST FLOOR PLAN FOR CONTINUATION.
- 11) 2" OPEN HUB DRAIN FOR CONDENSATE DISPOSAL AND WATER HEATER T&P RELIEF.
- 12) SATINITY PIPE ROUTED TO BASEMENT CEILING.

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PLUMBING - PLANS



NOTES:

1. FURNISH WITH AND INSTALL ALL NECESSARY HARDWARE AND MOUNTING BRACKETS.
2. WHERE FIXTURE IS LABELED "EM", PROVIDE WITH IOTA ILB-CP10 (10W CONSTANT POWER EMERGENCY BATTERY PACK) OR APPROVED EQUAL.
3. PROVIDE DEDICATED ALTERNATE PRICING FOR TYPE "B".

GENERAL NOTES (APPLICABLE TO ALL FIXTURES):

1. REFER TO SPECIFICATIONS FOR ADDITIONAL FIXTURE/DRIVER/BALLAST REQUIREMENTS.
2. LUMENS LISTED FOR LED FIXTURES ARE GENERALLY DELIVERED LUMENS UNLESS NOTED OTHERWISE.
3. WHEN SHOWN ON PLAN, PROVIDE WITH WEATHERPROOF REMOTE HEAD MOUNTED TO SOFFIT OR WALL ABOVE DOOR. 90 MINUTE BATTERY TO BE SIZED FOR BOTH THE EXIT SIGN AND EM HEAD.

Diagram illustrating the wiring for a 3-way switch controlling a light fixture. The diagram shows a 3-way switch with terminals 1, 2, and 3. Terminal 1 is connected to a panelboard or other rooms as shown on plans (typical). Terminal 2 is connected to a light fixture(s) (where shown). Terminal 3 is connected to a light fixture(s) (where shown). The diagram also shows a 'hot' conductor where the fixture is shown to have EM battery/ballast.

- ① ROUTE TO A SINGLE EXISTING 20A-1P CIRCUIT BREAKER IN EXISTING 120/240V/3PH PANEL. ENSURE BREAKER IS NOT CONNECTED TO HIGH LEG PHASE.
- ② ROUTE THROUGH EXISTING FINE CLOCK/PHOTOCELL CONTROLLER ASSEMBLY AND ROUTE THROUGH CONTRACTOR PROVIDED BY SECURITY COMPANY. COORDINATE WITH OWNER.
- ③ POWER FOR EXTERIOR SIGN. COORDINATE WITH SIGNAGE VENDOR AND PROVIDE ROUGH-IN AS REQUIRED.
- ④ POWER FOR DISPLAY CASE LIGHTING. COORDINATE WITH DISPLAY CASE VENDOR AND PROVIDE ROUGH-IN AS REQUIRED.
- ⑤ PROVIDE ONE RELAY FOR LIGHTING, ONE RELAY FOR EXHAUST FAN.
- ⑥ LOCATION SHOWN FOR CLARITY ONLY. LOCATE ADJACENT TO ELECTRICAL PANEL.
- ⑦ MOUNT TO BOTTOM OF ROOF DECK.

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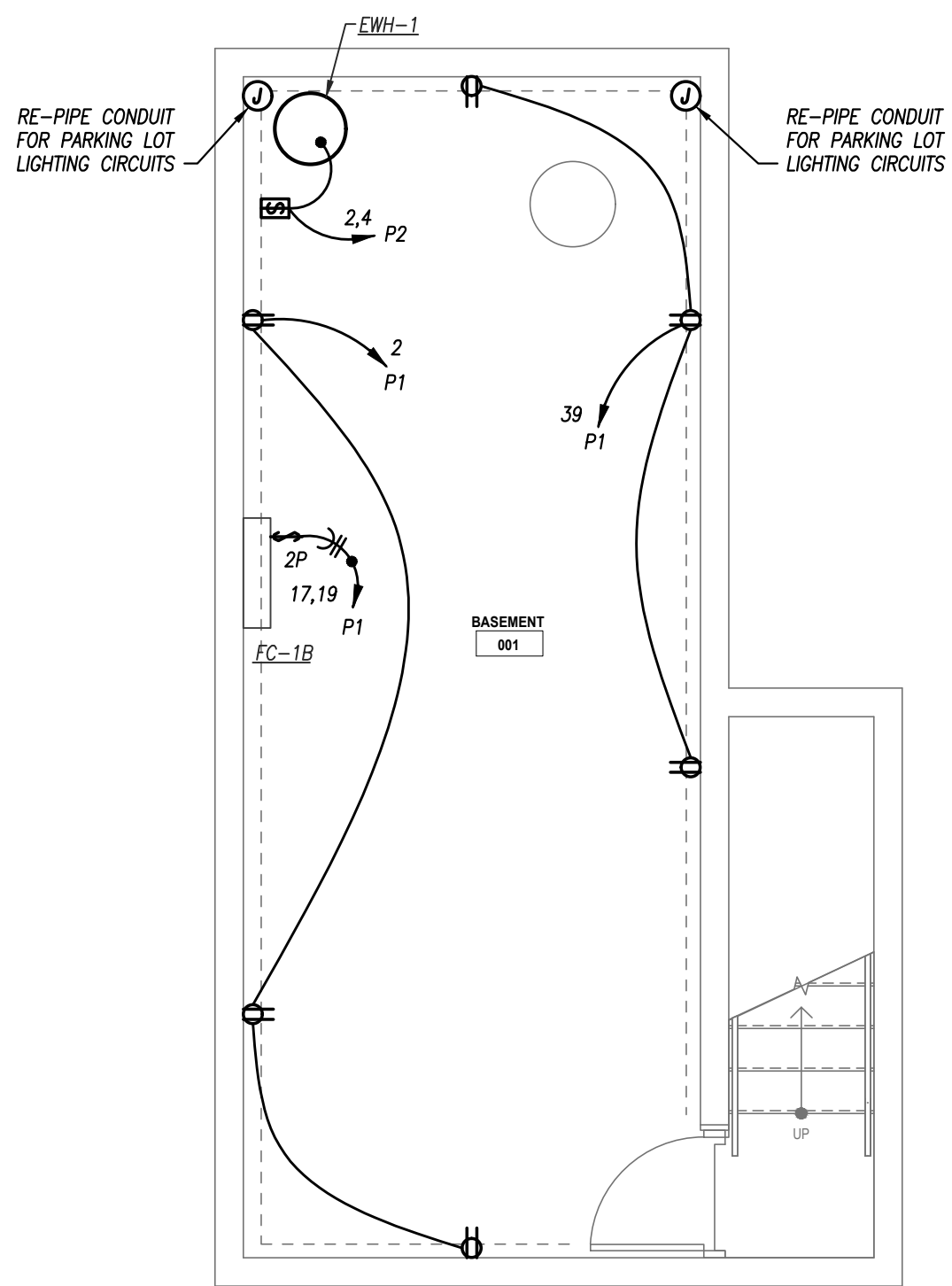
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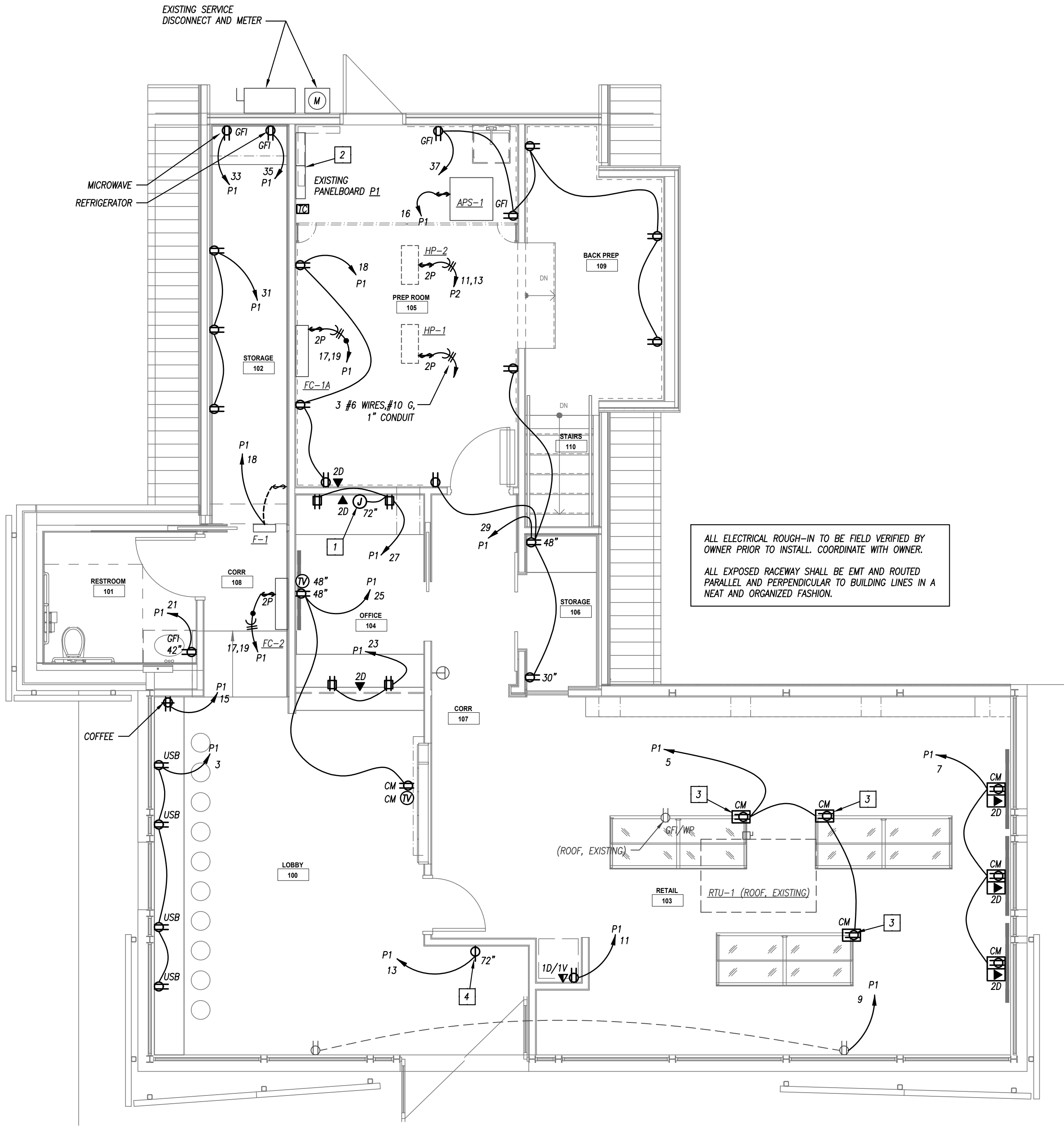
ELECTRICAL - PLANS, SCHEDULES & DETAILS

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K
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BASEMENT - FLOOR PLAN - POWER
1/4" = 1'-0"



FLOOR PLAN - POWER
1/4" = 1'-0"

SINGLE SECTION PANELBOARD SCHEDULE									
PANEL DESIGNATION: P1					MAIN LUG AMPS: 225 MAIN BREAKER: M.L.O. VOLTAGE: 240/120 PHASE/WIRE: 1Ø, 3W				
MOUNTING: SURFACE LOCATION: BACK OF HOUSE									
DESCRIPTION	PHASE		C/B		CIRCUIT #	C/B		PHASE	
	A	B	TRIP	POLE		A	B	TRIP	POLE
LTS - BACK OF HOUSE	512		20	1	1, 2	1	20	540	
REC - SALES		720	20	1	3, 4	1	20	711	
REC - SALES	540		20	1	5, 6	1	20	1200	
REC - SALES		540	20	1	7, 8	1	20	1000	
REC - SALES	360		20	1	9, 10	1	20	1500	
REC - SALES		1200	20	1	11, 12	1	20	1500	
REC - LOBBY	250		20	1	13, 14	1	20	1500	
REC - COFFEE MAKER	900		20	1	15, 16	1	15	122	
FCU-1A, FCU-1B, FCU-2	315		15	2	17, 18	1	15	72	
		315			19, 20	1	20	1500	
REC - BATHROOM	180		20	1	21, 22	1	20	-	
REC - OFFICE	720		20	1	23, 24	1	20	-	
REC - TV'S	1700		20	1	25, 26	1	20	-	
REC - OFFICE		1000	20	1	27, 28	1	20	-	
REC - PREP. + STORAGE	720		20	1	29, 30	1	20	-	
REC - STORAGE		540	20	1	31, 32	1	20	-	
REC - MICROWAVE	900		20	1	33, 34	1	-	-	
REC - REFRIGERATOR		1200	20	1	35, 36	1	-	-	
REC - BACK PREP	900		20	1	37, 38	1	-	-	
REC - BASEMENT		540	20	1	39, 40	1	-	-	
TOTALS	0	0				0	0	TOTALS	

PANELBOARD SIZING LOAD			
LOAD DESCRIPTION	CONNECTED	DEMAND	CODE MIN. (VA)
LIGHTS	9,423	1.25	11,779
RECEPTACLES	13,450	1.25	11,725
MOTORS	0	1.00	0
AIR CONDITIONING	630	0.00	630
SPACE HEATING	0	0.00	0
CONTINUOUS	194	1.25	243
NON-CONTINUOUS	0	1.00	0
MISC. LOADS 1	0	1.00	0
MISC. LOADS 2	0	1.00	0
SIZING LOAD			24,378
SIZING LOAD (AMPS)			102

CONNECTED PHASE LOADS		
PHASE	VA	AMPS
A	11,189	93.2
B	12,508	104.2
TOTALS	23,697	98.7

REMARKS:
1. PANEL IS EXISTING TO REMAIN. PROVIDE NEW COVER.

SINGLE SECTION PANELBOARD SCHEDULE									
PANEL DESIGNATION: P2 (EXISTING)					MAIN LUG AMPS: 125 MAIN BREAKER: 100 VOLTAGE: 240/120 PHASE/WIRE: 3Ø, 4W (NOTE 2)				
MOUNTING: SURFACE LOCATION: BACK OF HOUSE									
DESCRIPTION	PHASE		C/B		CIRCUIT #	C/B		PHASE	
	A	B	TRIP	POLE		A	B	TRIP	POLE
RTU - 1 (EXISTING)	3145	3145	35	3	1, 2	2	25	2000	
HP-1	3100	3100	40	2	3, 4	1	20	-	
HP-2	1035	1035	15	2	5, 6	1	20	-	
2ØBV SPACE	-	-	-	1	7, 8	1	20	-	
SPARE	-	-	-	20	9, 10	1	-	-	
SPARE	-	-	-	20	11, 12	1	-	-	
2ØBV SPACE	-	-	-	20	13, 14	1	-	-	
SPARE	-	-	-	20	15, 16	1	-	-	
SPARE	-	-	-	20	17, 18	1	-	-	
2ØBV SPACE	-	-	-	20	19, 20	1	-	-	
SPARE	-	-	-	20	21, 22	1	-	-	
2ØBV SPACE	-	-	-	20	23, 24	1	-	-	
SPARE	-	-	-	20	25, 26	1	-	-	
2ØBV SPACE	-	-	-	20	27, 28	1	-	-	
SPARE	-	-	-	20	29, 30	1	-	-	
TOTALS	7280	6245	4180		2000	2000	0	TOTALS	

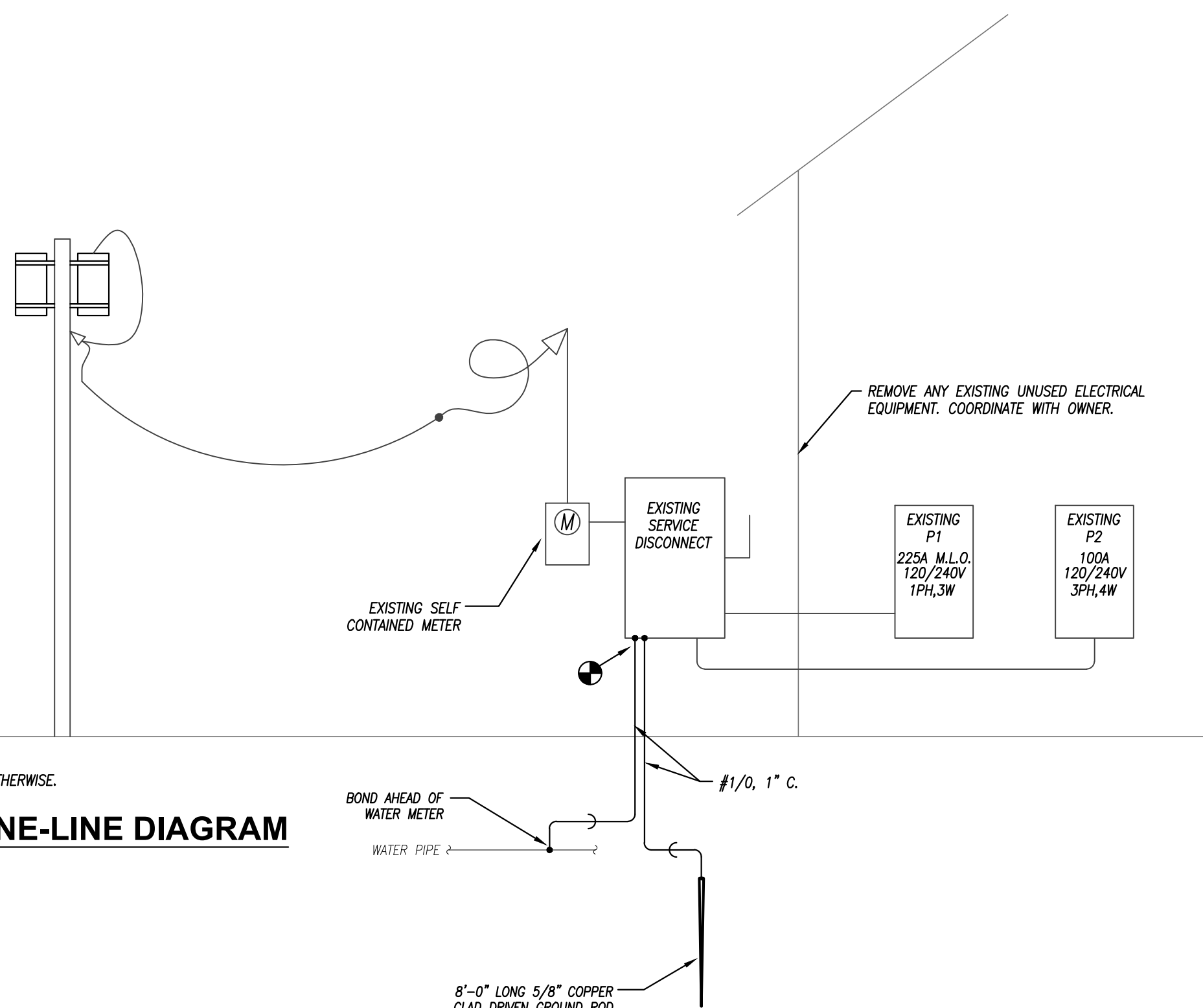
PANELBOARD SIZING LOAD			
LOAD DESCRIPTION	CONNECTED	DEMAND	CODE MIN. (VA)
LIGHTS	0	1.25	0
RECEPTACLES	0	100kVA + 50% REST	0
MOTORS	9,435	1.25 + LARGEST + SUM OF REST	11,794
AIR CONDITIONING	0	1.00	0
SPACE HEATING	0	0.00	0
HEAT PUMP	8,270	1.00	8,270
CONTINUOUS	4,000	1.25	5,000
NON-CONTINUOUS	0	1.00	0
MISC. LOADS 1	0	1.00	0
SIZING LOAD			25,064
SIZING LOAD (AMPS)			70

CONNECTED PHASE LOADS		
PHASE	VA	AMPS
A	9,280	77.3
B	8,245	68.7
C	4,180	34.8
TOTALS	21,705	60.3

REMARKS:
1. PANEL IS EXISTING TO REMAIN. PROVIDE NEW COVER.
2. SERVICE IS A 240V-3Ø WLD LEG SERVICE. THIS PANEL ASSUMES THE B-PHASE TO GROUND TO BE 208V. FIELD VERIFY EXACT CONFIGURATION. DO NOT CONNECT 120V LOADS TO THE 208V PHASE.

NOTE: ALL WORK IS EXISTING TO REMAIN UNLESS NOTED OTHERWISE.

EXISTING ELECTRICAL ONE-LINE DIAGRAM
NO SCALE



GENERAL NOTES

1. REFER TO GENERAL NOTES ON MEP COVER SHEET FOR ADDITIONAL REQUIREMENTS OF WORK.
2. LIGHT FIXTURES INDICATED AS EMERGENCY FIXTURES ARE TO FUNCTION AS NIGHT LIGHTS UNLESS SPECIFICALLY SHOWN SWITCHED.
3. ALL CIRCUITING SHOWN ON THIS PLAN IS DIAGRAMMATIC.
3.1. ALL FIXTURES SHALL BE FED FROM JUNCTION BOXES WITH LIGHT FIXTURE WHIPS (<6'). DASHY-CHANNING OF FIXTURES IS NOT ALLOWED.
3.2. SWITCH BOX LOCATIONS SHALL BE WIRED SO THAT A NEUTRAL WIRE IS AVAILABLE AT THE SWITCH BOX LOCATION, EITHER IN THE BOX OR AVAILABLE TO BE ADDED VIA RACEWAY OR AN ACCESSIBLE WALL CAVITY.
3.3. WALL SWITCHES FOR SEPARATE LOAD TYPES (EM/NORMAL, 120/277V, ETC.) SHALL NOT BE IN A SINGLE BOX.
3.4. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

PLAN KEYED NOTES

- 1 JUNCTION BOX FOR SIGN. COORDINATE EXACT REQUIREMENTS WITH OWNER.
- 2 PROVIDE NEW COVER FOR EXISTING PANEL. FIELD VERIFY EXACT PANEL MAKE AND MODEL. COORDINATE WITH OWNER.
- 3 RECEPTACLE MOUNTED TO STRUCTURE FOR BUTTENDER. COORDINATE EXACT LOCATION WITH OWNER.
- 4 SEMI-RECESSED CLOCK RECEPTACLE.

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E201

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PKMR #:

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