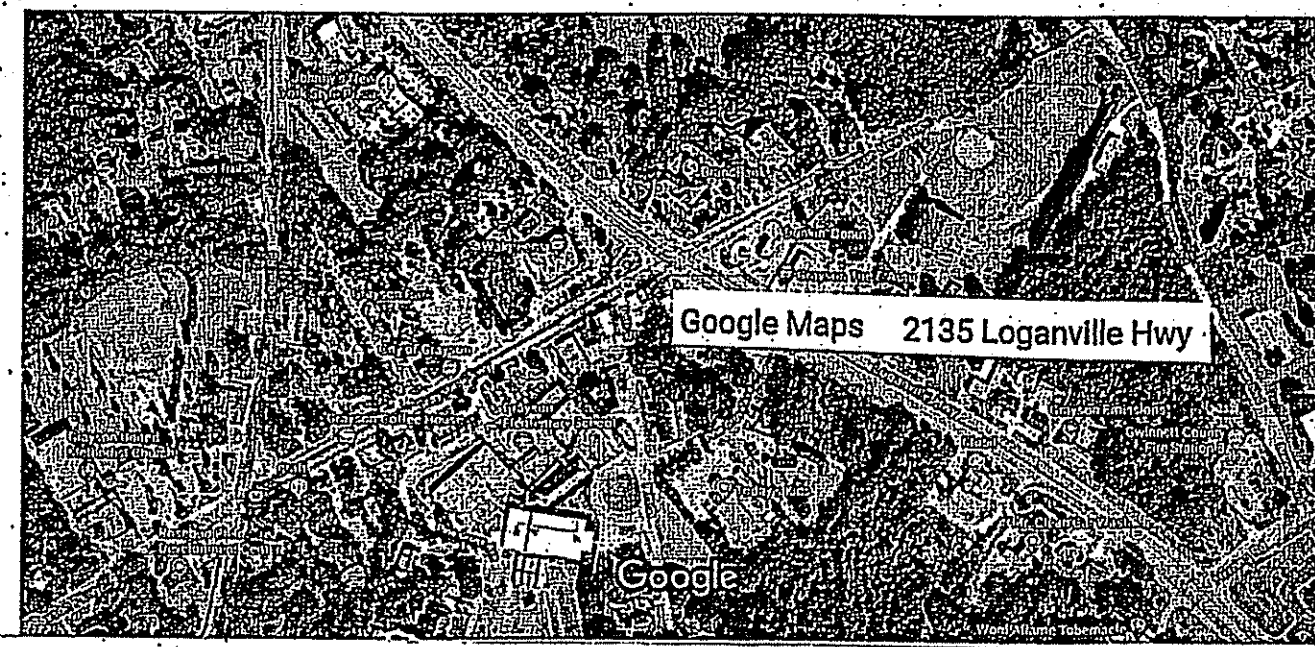


CODE NOTES AND REQUIREMENTS

- THESE DOCUMENTS HAVE BEEN PREPARED PER APPLICABLE CODES, LAWS, AND ORDINANCES TO BE USED TO OBTAIN THE BUILDING PERMIT. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING PERMIT AND COORDINATING REQUIREMENTS FOR CONSTRUCTION WITH AUTHORITIES HAVING JURISDICTION - NO WORK TO BE DONE WITHOUT PERMITS.
- ALL CONSTRUCTION EITHER OUTLINED OR IMPULSED IN THESE DOCUMENTS SHALL MEET ALL APPLICABLE CITY, COUNTY, AND STATE CODE REQUIREMENTS, ORDINANCES, THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA), AND HAZARD PREVENTION. NOTHING IN THE DRAWINGS IS TO BE CONSTRUED AS REQUIRING OR PERMITTING WORK THAT IS CONTRARY TO THESE RULES, REGULATIONS, CODES, OR ORDINANCES. COORDINATION WITH AUTHORITY WITH JURISDICTION. THE MOST STRINGENT REQUIREMENTS SHALL APPLY.
- THE DESIGN FIRM WILL NOT BE RESPONSIBLE FOR AND WILL NOT HAVE CONTROL, OR CHARGE OF CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, OR FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THIS PROJECT AND WILL NOT BE RESPONSIBLE FOR CONTRACTORS FAILURE TO CARRY OUT THE WORK ON THIS PROJECT IN ACCORDANCE WITH THESE CONSTRUCTION DOCUMENTS OR INDUSTRY STANDARDS. THIS FIRM WILL NOT BE RESPONSIBLE FOR OR HAVE CONTROL OR CHARGE OVER THE ACTS OR OMISSIONS OF THE SUBCONTRACTORS, OR ANY OF THEIR AGENTS OR EMPLOYEES OR ANY OTHER PERSON PERFORMING ANY OF THE WORK ON THIS PROJECT.
- ALL ENVIRONMENTAL ISSUES ARE THE SOLE RESPONSIBILITY OF THE BUILDING OWNER. NEITHER THE ARCHITECT, ENGINEER(S), GENERAL CONTRACTOR OR SUBCONTRACTORS SHALL BE RESPONSIBLE FOR DISCOVERY, TESTING OR REMOVAL OF ANY HAZARDOUS MATERIALS AS PART OF THEIR SCOPE OF WORK UNLESS SPECIFICALLY STIPULATED BY WRITTEN AGREEMENT. IF DURING THE COURSE OF WORK THE GENERAL CONTRACTOR OR SUBCONTRACTORS DISCOVER HAZARDOUS MATERIAL OR CONDITIONS THEY SHALL NOTIFY THE OWNER'S REPRESENTATIVE BY PHONE AND IN WRITING IMMEDIATELY BEFORE PROCEEDING WITH THE WORK SO THAT A SAFE AND APPROPRIATE COURSE OF ACTION CAN BE DEVISED UPON.
- ALL SUBCONTRACTORS INCLUDING MECHANICAL, ELECTRICAL AND PLUMBING SHALL BE RESPONSIBLE FOR SECURING PERMITS FOR THEIR WORK AND TRAVEL, UTILITY LOCATIONS, AND FOR PROVIDING ANY ADDITIONAL DRAWINGS THE BUILDING DEPARTMENT MAY REQUIRE.
- ALL INSURANCE COVERAGE SHALL BE PROVIDED BY THE GENERAL CONTRACTOR AND SUBCONTRACTORS COVERING WORKMAN'S COMPENSATION, EMPLOYER'S LIABILITY AND OTHER INSURANCE COVERAGE AS MAY BE REQUIRED IN THE CONSTRUCTION CONTRACT OR BY STATE LAW FOR THE DURATION OF THE PROJECT.
- BEFORE TO COMMENCING CONSTRUCTION, THE GENERAL CONTRACTOR SHALL BRING TO THE ATTENTION OF THE DESIGN FIRM ANY PLAN OR DESIGN DISCREPANCIES THAT CAN NOT BE FIELD CORRECTED.
- BEFORE TO COMMENCING CONSTRUCTION THE GENERAL CONTRACTOR SHALL ESTABLISH THE SIZE AND LOCATION OF ALL EXISTING UTILITIES IN THE AREA OF CONSTRUCTION WORK AND PROTECT SAME FROM DAMAGE DURING CONSTRUCTION.
- PROVIDE EMERGENCY LIGHTING THAT IS WIRED TO LIGHT CIRCUIT IN THE AREA SERVED UNSWITCHED AND WITH EMERGENCY LIGHTING BATTERY BACK TO ILLUMINATE THE AREA IN THE EVENT OF A POWER FAILURE.
- THE EXTERIOR EXIT DOOR(S) SHALL BE EQUIPPED WITH AN APPROVED EXIT DEVICE OR SHALL BE EQUIPPED WITH A LOCK THAT IS OPERABLE FROM THE INSIDE WITHOUT THE USE OF A KEY (THUMB TURN NOT A KEY)
- ALL EXTERIOR DOORS SHALL HAVE A CEILING MOUNTED ILLUMINATED (RED) EXIT SIGN MOUNTED ABOVE THE DOOR. THE EXIT SIGN SHALL BE EQUIPPED WITH AN EMERGENCY BATTERY POWERED BACK-UP PACK. EXIT LIGHTING SHALL HAVE AN ON A DEVIATED CIRCUIT, BUT SHALL BE CONNECTED TO THE LIGHTING CIRCUIT BREAKER FOR THE AREA THE FIXTURES SERVE. COORDINATE ANY REQUIREMENTS FOR AUDIO AND VISUAL ALARMS AND THEIR LOCATIONS WITH THE AUTHORITY HAVING JURISDICTION.
- FIRE EXTINGUISHERS IN DAYCARE OCCUPANCIES SHALL BE LOCATED PER THE REQUIREMENTS OF NFPA 10. THE SIZE SHALL BE A MINIMUM OF 1 AND NO. 1 IS REQUIRED IN EACH SPACE LESS THAN 3000 SF AND 2 ARE REQUIRED IN EACH SPACE OVER 3000 SF SHALL BE INSTALLED AT A MAX. OF 45' ABOVE THE FINISH FLOOR TO TOP OF THE HANDLE.
- PROVIDE SMOKE DETECTORS IN SUPPLY AIR FOR UNIT SHUT DOWN FOR ANY UNIT AIR HANDLER RATED 2000 CFM OR GREATER. ANY UNIT RATED 1500 CFM OR GREATER SHALL BE EQUIPPED WITH AN AUTOMATIC SMOKE DETECTOR WIRED FOR SHUTDOWN. NFPA REQUIRES SMOKE DETECTORS IN SUPPLY AIR AND MUST ACTIVATE FIRE ALARM.
- SIGNS SHALL BE PERMITTED SEPARATELY. CONTACT BUILDING PLAN REVIEW AT (678) 518-5040 FOR ADDITIONAL INFORMATION FOR GROUND SIGNS. SUBMIT CONTACT STRUCTURAL AND ELECTRICAL DETAILS WHICH CLEARLY OUTLINE CONSTRUCTION REQUIREMENTS.
- CONTACT THE GWINNETT COUNTY FIRE MARSHAL'S (INSPECTION REQUEST LINE) AT (678) 518-6102 FOR INSPECTIONS AT 50%, 60%, AND 100% COMPLETION. NOTE (50%) INSPECTION INCLUDES ALL NEW BUILDINGS COMING OUT OF THE GROUND AND INSPECTION OF FLOOR AND CEILING PENETRATIONS. (60%) INSPECTION OF ANY FIRE RATED BARRIER, FLOOR OR CEILING. (100%) FINAL INSPECTION ALL SYSTEMS, EQUIPMENT INSTALLED AND OPERATING, READY FOR OCCUPANCY. THE INSPECTION REQUEST MUST BE PHONED IN BEFORE 2:00PM THE DAY PRIOR TO THE DATE THE INSPECTION IS NEEDED.
- THE FINISH FLOOR ELEVATION SHALL BE THE SAME ON BOTH SIDES OF ALL EXTERIOR DOORS. THE ELEVATION SHALL BE MARKED FOR A DISTANCE EQUAL TO THE WIDTH OF THE WIDEST LEAF OF THE DOOR. NFPA 101 LIFE SAFETY CODE, CHAPTER 7, SEC. 7.2.1.3.
- DOOR HARDWARE - HANDLES, PULLS, LATCHES, LOCKS, AND OTHER OPERATING DEVICES ON ACCESSIBLE DOORS SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, TIGHT FINGERING, OR TURNING OF THE WRIST TO OPERATE. LEVER-OPERATED MECHANISMS, PUSH-TYPE MECHANISMS, AND U-SHAPED HANDLES ARE ACCEPTABLE DESIGNS. RULE 120-3-20-24 (9) SHALL BE PROVIDED. GEORGIA ACCESSIBILITY CODE.
- EMERGENCY LIGHTING - COMPLY WITH NFPA 101 LIFE SAFETY CODE, CHAPTER 7, SEC. 7.9, SHALL BE INSTALLED. ADDITIONAL EMERGENCY LIGHTING MAY BE REQUIRED UPON FIRE INSPECTION.
- ACCESSIBILITY ROUTE. ALL CORRIDORS, AND OTHER SPACES THAT ARE PART OF AN ACCESSIBLE ROUTE SHALL COMPLY WITH RULE 120-3-20-14 GEORGIA ACCESSIBILITY CODE.
- WATER CLOSET - IN STALLS PROVIDE CLEAR FLOOR SPACE PER RULE 120-3-20-28 FIGURE 30(c) AND 30(g)-(1) OF THE GEORGIA ACCESSIBILITY CODE. ALTERNATE STALLS MAY BE PROVIDED FOLLOWING THE REQUIREMENTS OF RULE 120-3-20-28(2) EXCEPTION #1.
- WATER CLOSET - MOVING HEIGHT SEE ACCESSIBILITY NOTE #7
- GRAB BARS SEE ACCESSIBILITY NOTES #3, 4 & 5. INSTALLED PER THE REQUIREMENTS OF RULE 120-3-20-37 OF THE GEORGIA ACCESSIBILITY CODE.
- FLUSH CONTROLS - INSTALL PER RULE 120-3-20-27(5) AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TURNING OF THE WRIST. CONTROLS FOR FLUSH VALVES SHALL BE MOUNTED ON THE WIDE SIDE OF TOILET TOILET AREAS NO MORE THAN 44 INCHES ABOVE THE FLOOR PER THE GEORGIA ACCESSIBILITY CODE.
- PAPER DISPENSERS - INSTALL PER REQUIREMENTS OF RULE 120-3-20-27(6) WITH A MINIMUM OF 19" TO CENTER OF THE ROLL ABOVE FINISH FLOOR FOR THE GEORGIA ACCESSIBILITY CODE.
- LAVATORIES - PROVIDE MOUNTING HEIGHTS OF CLEARANCES. CLEAR FLOOR SPACE OF 30" WIDE X 48" DEEP WITH A MAXIMUM OF 28" UNDER THE LAVATORY SHALL BE PROVIDED. LEVER, PUSH OR ELECTRONIC FAUCETS SHALL BE USED. IF PUSH OR ELECTRONIC VALVES ARE USED, THE WATER SHALL FLOW FOR A MINIMUM OF 10 SECONDS. PER RULE 120-3-20-20 PER THE GEORGIA ACCESSIBILITY CODE.
- WARRANTS - INSTALL AT A MAXIMUM OF 40" ABOVE THE FINISHED FLOOR TO THE BOTTOM, AND AT LEAST 74" TO THE TOP OF THE FRAME PER RULE 120-3-20-30(5) OF THE GEORGIA ACCESSIBILITY CODE.
- CLEAR FLOOR SPACE - AN UNOBSTRUCTED TURNING SPACE, EITHER A "T" SHAPE OR A MINIMUM OF 5 FT. IN DIAMETER SHALL BE PROVIDED WITHIN AN ACCESSIBLE TOILET ROOM PER RULE 120-3-20-33(3) OF THE GEORGIA ACCESSIBILITY CODE.
- EXPOSED PIPING AND SURFACES - HOT WATER AND DRINKING PIPES UNDER LAVATORIES SHALL BE INSULATED OR OTHERWISE COVERED TO PROTECT AGAINST CONTACT. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES PER RULE 120-3-20-30(4) OF THE GEORGIA ACCESSIBILITY CODE.
- STAIRS - INSTALL PER THE REQUIREMENTS OF RULE 120-3-20-22. THE HAND RAILING TYPE SHALL BE MOUNTED AT 12" ABOVE FINISHED FLOOR TO THE TOP OF THE FRONT UP AND SHALL EXTEND AT LEAST 14" FROM THE FRONT EDGE OF THE RAIL. WITH A CLEAR FLOOR SPACE OF 30" X 48" PER THE GEORGIA ACCESSIBILITY CODE.
- HEIGHT OF TABLES OR COUNTERTOPS - THE TOPS OF ACCESSIBLE TABLES AND COUNTERTOPS SHALL BE FROM 28 INCHES TO 34 INCHES ABOVE THE FINISHED FLOOR OR GROUND PER THE GEORGIA ACCESSIBILITY CODE, EXCEPT BREAK ROOM, WHICH IS 30"-36".
- SERVICE FOR TOILETS - SHALL BE RAISED AND BRAILLE CHARACTERS AND PICTORIAL SYMBOL SIGNS. SIGNS SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR. WHERE THERE IS NO WALL SPACE TO THE LATCH SIDE OF THE DOOR, INCLUDING AT DOUBLE LEAF DOORS, SIGNS SHALL BE PLACED ON THE NEAREST ADJACENT WALL. MOUNTING HEIGHT SHALL BE 60 INCHES ABOVE THE FINISHED FLOOR TO THE CENTERLINE OF THE SIGN. RULE 120-3-20-41(4), (5), (6) OF THE GEORGIA ACCESSIBILITY CODE.
- ALL INTERIOR WALL AND CEILING FINISHES SHALL BE OF A CLASS A OR CLASS B RATING, WITH A FLAME SPREAD OF 0 - 75.
- PROTRUDING OBJECTS, OBJECTS PROJECTING FROM WALLS, FREESTANDING, OVERHEAD, OVERHANGING OBJECT, AND OBJECTS MOUNTED ON POSTS AND PYLONS SHALL BE INSTALLED IN COMPLIANCE WITH RULE 120-3-20-15 GEORGIA ACCESSIBILITY CODE.
- SEATS, TABLES AND WORK SURFACES COMPLYING WITH THE REQUIREMENTS OF RULE 120-3-20-43 GEORGIA ACCESSIBILITY CODE.



- NEW DRAPES, CURTAINS, AND OTHER SIMILAR LOOSELY HANGING FURNISHINGS AND DECORATIONS SHALL BE IN ACCORDANCE WITH THE PROVISIONS OF 6-4.1 OF THE LIFE SAFETY CODE - SHALL BE FLAME RESISTANT AS DEMONSTRATED BY COMPLYING WITH NFPA 701, STANDARD METHODS OF FIRE TEST FOR FLAME-RESISTANT TEXTILES AND FILMS.
- OPERATING FEATURES SHALL BE PROVIDED PER THE REQUIREMENTS OF THE APPLICABLE OCCUPANCY CHAPTER OF NFPA 101 LIFE SAFETY CODE.
- STORAGE RACK, CONVEYOR, AND SHELVING SYSTEMS SHALL BE PERMITTED SEPARATELY. REFER TO DOCUMENT ENTITLED "RACK/CONVEYOR/SHELVING SYSTEMS - STRUCTURAL PLAN REVIEW & BUILDING PERMIT REQUIREMENTS" AND CONTACT BUILDING PLAN REVIEW AT (678) 518-5040 FOR ADDITIONAL INFORMATION.
- MECHANICAL, ELECTRICAL, AND PLUMBING SUBCONTRACTORS SHALL SUBMIT AFFIDAVITS FOR EACH BUILDING PERMIT TO THE BUILDING PERMITS SECTION AT LEAST TWO (2) BUSINESS DAYS BEFORE REQUESTING INSPECTIONS. OBTAIN AFFIDAVITS FORMS FROM BUILDING PERMITS SECTION.
- THE PROJECT DESIGNER OF RECORD SHALL BE RESPONSIBLE FOR COMPLIANCE WITH COPYRIGHT LAW SUCH THAT ALL DATA REPRODUCED ON THE CONSTRUCTION DOCUMENTS FROM COPYRIGHT PROTECTED MATERIAL SHALL REFERENCE EACH CORRESPONDING PUBLICATION, THE PUBLISHER, THE EDITION YEAR, AND A STATEMENT THAT MATERIAL IS REPRINTED WITH PERMISSION FROM THE PUBLISHER.
- EACH CONSTRUCTION OFFICE TRAILER REQUIRES A SEPARATE BUILDING PERMIT WHICH SHALL BE PURCHASED DIRECTLY FROM BUILDING PERMITS SECTION.
- EACH RETAINING WALL, WHICH EXCEEDS 4 FEET IN HEIGHT OR WHICH HAS BACKFILL SLOPE GREATER THAN 1 FOOT RISE IN 3 FEET HORIZONTAL, REQUIRES A SEPARATE BUILDING PERMIT PRIOR TO CONSTRUCTION. EXCEPTION: RETAINING WALLS WHICH ARE ATTACHED TO OR EXTEND DIRECTLY FROM THE BUILDING STRUCTURE SHALL BE CONSIDERED WITHIN THE SCOPE OF THE CONSTRUCTION PERMIT FOR THE BUILDING.
- THE (STREET NUMBER/BUILDING NUMBER) MUST BE VISIBLE FROM THE STREET THAT PROVIDES DRIVEWAY ACCESS TO THE PROPERTY AND PLACED ON A CONTRASTING BACKGROUND THAT PROVIDES 24 HOUR VISIBILITY. THE STREET NUMBER MUST ALSO MEET ONE OF THE FOLLOWING REQUIREMENTS:
(1) IF THE STREET NUMBER IS PLACED WITHIN 15 FEET OR LESS OF THE CURB OR EDGE OF PAVEMENT OF THE STREET, THE STREET NUMBER SHALL BE POSTED IN FIGURES AT LEAST 4 INCHES IN HEIGHT. (2) IF THE STREET NUMBER IS PLACED MORE THAN 15 FEET FROM THE CURB OR EDGE OF PAVEMENT OF THE STREET, THE STREET NUMBER SHALL BE POSTED IN FIGURES AT LEAST 8 INCHES IN HEIGHT. INTERNATIONAL FIRE CODE, CHAPTER 5, SECTION 605.1.
- PROVIDE (SUITE DESIGNATION) ON ALL EXTERIOR DOORS; MINIMUM SIZE OF 4".
- "SIGNS ARE NOT APPROVED WITHIN THE SCOPE OF THIS BUILDING PERMIT. A SEPARATE SIGN LOCATION PERMIT IS REQUIRED FOR EACH SIGN." CONTACT DEVELOPMENT REVIEW AT (678) 518-6000 FOR ADDITIONAL INFORMATION.
- FIRE BARRIERS SHALL BE CONTINUOUS FROM OUTSIDE WALL TO OUTSIDE WALL INCLUDING CONCEALED VOIDS, FROM FIRE BARRIER TO FIRE BARRIER, OR A COMBINATION THEREOF INCLUDING CONTINUITY THROUGH ALL CONCEALED SPACES SUCH AS THOSE FOUND ABOVE CEILING, THROUGH INTERSTITIAL SPACES, PROVIDE A LISTED JOINT DETAIL FOR TOP OF THE WALL AT THE FLOOR/CEILING ASSEMBLY OR ROOF DECK PER NFPA 101 LIFE SAFETY CODE, CHAPTER 8 SECTION 8.2.2.2.

ACCESSIBILITY NOTES:

- THE INTERNATIONAL SYMBOL OF ACCESSIBILITY (FIG. 43(c)) SHALL BE USED TO IDENTIFY ACCESSIBLE FACILITIES.
- ALL TOILET FIXTURES AND ACCESSORIES FOR TOILET ROOMS SHALL COMPLY WITH THE GEORGIA ACCESSIBILITY CODE AND ADA FEDERAL LAW REQUIREMENTS FOR MAKING ALL BUILDINGS ACCESSIBLE TO AND USABLE BY THE PHYSICALLY HANDICAPPED PEOPLE. PROVIDE EACH TOILET WITH INTERNATIONAL SYMBOL IDENTIFICATION.
- GRAB BARS AT THE SIDE OF WATER CLOSETS SHALL BE A MINIMUM 42 INCHES LONG AND BEGIN 12 INCHES FROM THE CORNER. GRAB BARS ABOVE AND BEHIND THE WATER CLOSETS SHALL BE CENTERED ON THE WATER CLOSET, AND BE 36" LONG. EXCEPT WHERE SPACE IS LIMITED 24" GRAB BARS MAY BE USED.
- GRAB BARS SHALL BE 33 INCHES ABOVE AND PARALLEL TO THE FINISH FLOOR MEASURED VERTICALLY TO THE TOP OF THE BAR. A VARIATION OF NOT MORE THAN 1/2" AND SHALL HAVE AN OUTSIDE DIAMETER OF 1-1/2" INCHES O.D. AND BE 1-1/2 INCHES AWAY FROM THE WALL.
- GRAB BARS SHALL BE MOUNTED TO SUPPORT 250 LBS. WITH BLOCKING AS REQUIRED IN CAVITY WALL.
- ALL PAPER TOWEL DISPENSERS SHALL BE MOUNTED AT USER HEIGHT OF 40 INCHES AFF (AT BARRIER FREE TOILET ROOMS).
- WATER CLOSET HEIGHT SHALL BE 17 INCHES TO 19 INCHES, MEASURED FROM THE TOP OF THE TOILET SEAT TO THE FINISHED FLOOR.
- ELECTRIC FLOOR COOLER/DRINKING FOUNTAIN SHALL BE MANUFACTURED FOR USE BY THE PHYSICALLY HANDICAPPED, AND SHALL MEET APPLICABLE LOCAL STANDARDS. UNIT SHALL HAVE A CLEAR FLOOR SPACE OF 30" X 48".
- ACCESSIBLE TOILET ROOMS SHALL HAVE A (5') FIVE FOOT DIAMETER CIRCULAR AREA FOR MANEUVERING.
- MINIMUM CLEAR WIDTH OF PASSAGE SHALL BE 36" CLEAR AT ANY POINT CONTINUOUSLY, AND 32 INCHES AT A DOORWAY. ALL DOORS SHALL HAVE A MINIMUM 12" CLEAR ON THE PUSH SIDE AND 18" CLEAR AT THE PULL SIDE.
- THE DOOR TO ACCESSIBLE TOILET ROOMS SHALL NOT SWING INTO REQUIRED CLEAR FLOOR SPACE FOR ANY FIXTURE.

BUILDING CODE COMPLIANCE NOTES

- TYPE AND THICKNESS OF PROPOSED EXTERIOR WALL COVERINGS SHALL BE IN ACCORDANCE WITH SBO TABLE 1405.2.
- A MINIMUM OF ONE LAYER OF NO. 16 ASPHALT FELT SHALL BE ATTACHED TO THE WALL SHEATHING BEHIND EXTERIOR WALL VENER (HOLDING BUT NOT LIMITED TO VOOD, MASONRY, STONE, AND METAL) FOR COMPLIANCE WITH SBO SECTION 1404.2. (SBO SECTIONS 1403, 1404, AND 1405) **NA**
- A SEPARATE INTERIOR FINISH PERMIT IS REQUIRED FOR EACH INDIVIDUAL SUITE IN MULTI-TENANT BUILDINGS.
- INSULATION MATERIALS IN BUILDINGS OF ANY TYPE OF CONSTRUCTION SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 450 AS DETERMINED IN ACCORDANCE WITH ASTM E 84.

GWINNETT COUNTY CLEAN INDOOR AIR ORDINANCE

- COMPLY WITH THE GWINNETT COUNTY CLEAN AIR ORDINANCE (ARTICLE VI SECTION 42-129)
- A SIGN CLEARLY STATING THAT SMOKING IS PROHIBITED SHALL BE CONSPICUOUSLY POSTED BY THE BUILDING OWNER, OPERATOR, MANAGER OR OTHER PERSON IN CONTROL IN EVERY PUBLIC PLACE OF EMPLOYMENT. NO "SMOKING" SIGNS OR THE INTERNATIONAL SYMBOL CONSISTING OF A PICTORIAL REPRESENTATION OF A BURNING CIGARETTE ENCLOSED IN A RED CIRCLE WITH A RED BAR ACROSS IT SHALL BE POSTED.

FIRE RESISTANCE-RATED WALLS

- CONTRACTOR SHALL PERMANENTLY IDENTIFY ALL FIRE-RESISTANCE-RATED WALLS INCLUDING FIRE BARRIER WALLS, SMOKE BARRIER WALLS, FIRE PARTITIONS, FIRE WALLS, AND SHIELD ENCLOSURES EITHER BY INSTALLING SIGNS OR BY STENCILING IN CONCEALED SPACES THE FOLLOWING:
(1) HOUR FIRE AND SMOKE BARRIER - PROTECT ALL OPENINGS.
IDENTIFICATION SHALL BE SPACED NO MORE THAN TWELVE (12) FEET ON CENTER WITH A MINIMUM LETTER SIZE OF TWO (2) INCHES IN HEIGHT ON A CONTRASTING BACKGROUND. (SBO SECTION 703.5)

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CODE NOTES AND REQUIREMENTS

ALL CONSTRUCTION SPECIFIED ON DOCUMENTS SUBMITTED FOR BUILDING PERMIT SHALL COMPLY WITH THE REQUIREMENTS OF THE GWINNETT COUNTY CONSTRUCTION CODE (2016 VERSION) INCLUDING REVISIONS, AMENDMENTS AND APPENDICES TO THE FOLLOWING CODES:

THE GEORGIA STATE MINIMUM STANDARD CODES
BUILDING: INTERNATIONAL BUILDING CODE - 2012 EDITION WITH 2014, 2015 & 2017 GEORGIA STATE AMENDMENTS
BUILDING: INTERNATIONAL RESIDENTIAL CODE FOR ONE & TWO-FAMILY DWELLINGS - 2012 EDITION WITH 2014, & 2016 GEORGIA AMENDMENTS, AND IRO APPENDIX F.
BUILDING: INTERNATIONAL EXISTING BUILDING CODE - 2012 EDITION WITH 2015 GEORGIA AMENDMENTS,
PLUMBING: INTERNATIONAL PLUMBING CODE - 2012 EDITION WITH 2014 & 2015 GEORGIA STATE AMENDMENTS, AND IPC APPENDIX F.
MECHANICAL: INTERNATIONAL MECHANICAL CODE - 2012 EDITION WITH 2014 & 2018 GEORGIA STATE AMENDMENTS
ELECTRICAL: NFPA NATIONAL ELECTRICAL CODE - 2011 EDITION
GAS: INTERNATIONAL FUEL GAS CODE - 2012 EDITION WITH 2014 & 2015 GEORGIA STATE AMENDMENTS
ENERGY: INTERNATIONAL ENERGY CONSERVATION CODE - 2009 EDITION WITH 2011 & 2012 GEORGIA STATE AMENDMENTS
2012 GWINNETT COUNTY ORDINANCE FOR FIRE PREVENTION & PROTECTION ORDINANCE, DEPT. OF JUSTICE 2010 ADA STANDARDS
LIFE SAFETY: NFPA LIFE SAFETY CODE - 2012 EDITION
INTERNATIONAL FIRE CODE 2012 EDITION W/ 2014 CH. AMENDMENTS
ADA TITLES 2B AND 30 GEORGIA ACCESSIBILITY CODE 2010 ADA STANDARDS
CONTACT THE FOLLOWING FOR INFORMATION REGARDING CODES, REGULATIONS AND ORDINANCES APPLICABLE TO THIS PROJECT TO THOSE LISTED ABOVE:
DEVELOPMENT REVIEW - ENVIRONMENTAL HEALTH- 770-083-5152
CURRENT PLUMBING - WATER & SEWER REVIEW- 678-518-9000
FIRE PLAN REVIEW - 678-518-6000
PERMIT OFFICE

THE FOLLOWING ZONING DISTRICT HAS BEEN IDENTIFIED FOR THIS PROJECT:

PROJECT DATA

Name of Development: The Rail Yard Bldg. 3- The Train Station- Sam's on Main
Address: 2135 Loganville Highway, Grayson, Georgia 30017

Contractor: AMO Construction Co. LLC
Address: P.O. Box 460, Grayson, Georgia 30017
Phone: Office: 678-985-7900; Fax: 678-985-7902

Occupancy Classification: Occupancy Group: "A"

Type of Construction: Type V-B Wood

Zoning: PUD

Number of Stories: One (1)

Building Height: 30'-5"

Building Code Height Limit (FT): 40'

County Zoning Height Limit (FT): 35'

Minimum Floor Live Loads (PSF): 100

Minimum Roof Live Loads (PSF): 20

Calculated Occupant Load: 109

- 1) Seating Area- 784sf/ 15= 53
- 2) Offices and Kitchen Area- 696.76sf/ 100= 7
- 3) Party Room and Bar- 365.25sf/ 15= 25
- 4) Toilets- 96sf- N/A
- 5) Utility Room- 40sf- N/A
- 6) Order/ Pay Area and Service Area- 481.19sf/ 30= 16
- 7) Waiting Area- 36sf/ 5= 8
- 8) Walls inside and outside of suite: 202sf- N/A
- 9) Hallways and Storage Room- 262.49sf- N/A

Total Suite SF- 2566, 53+7+25+16+8= 109 PEOPLE

Equipment Mezzanine including interior and exterior walls- 398.29sf- N/A

ATTENTION: Separate Reviews by Fire Required For:
Fire Sprinkler and Fire Alarm Systems
Fire Suppression Systems, Kitchen Hoods,
Rack Storage, product height over 12 feet
Storage and/or use of Hazardous Materials

Required Fire Inspections

Pre-Construction Meeting
50% X 80% X 100%

REVIEWED FOR
Issuance of Construction Permit
BLD-2018-07308

SEP 06 2018

Jennifer Folders-Nissen
Gwinnett County Fire Plan Review

APPROVED

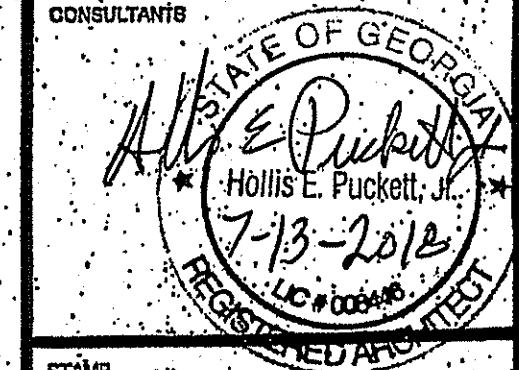
GWINNETT COUNTY ENVIRONMENTAL HEALTH

DATE 10/2/18

HEP

ARCHITECTURE

HOLLIS PUCKETT ARCHITECTURE
784 Exchange Mill Place
Dacula, GA 30019
T. 770.513.7812



style

SAM'S ON MAIN
BUILDING NO. 31, 2135 LOGANVILLE HIGHWAY, GRAYSON, GA 30017
SUITE 200
HEP ARCHITECTURE
784 EXCHANGE MILL PL. Dacula, GA 30019
CELL: 770-513-7812

KEY PLAN

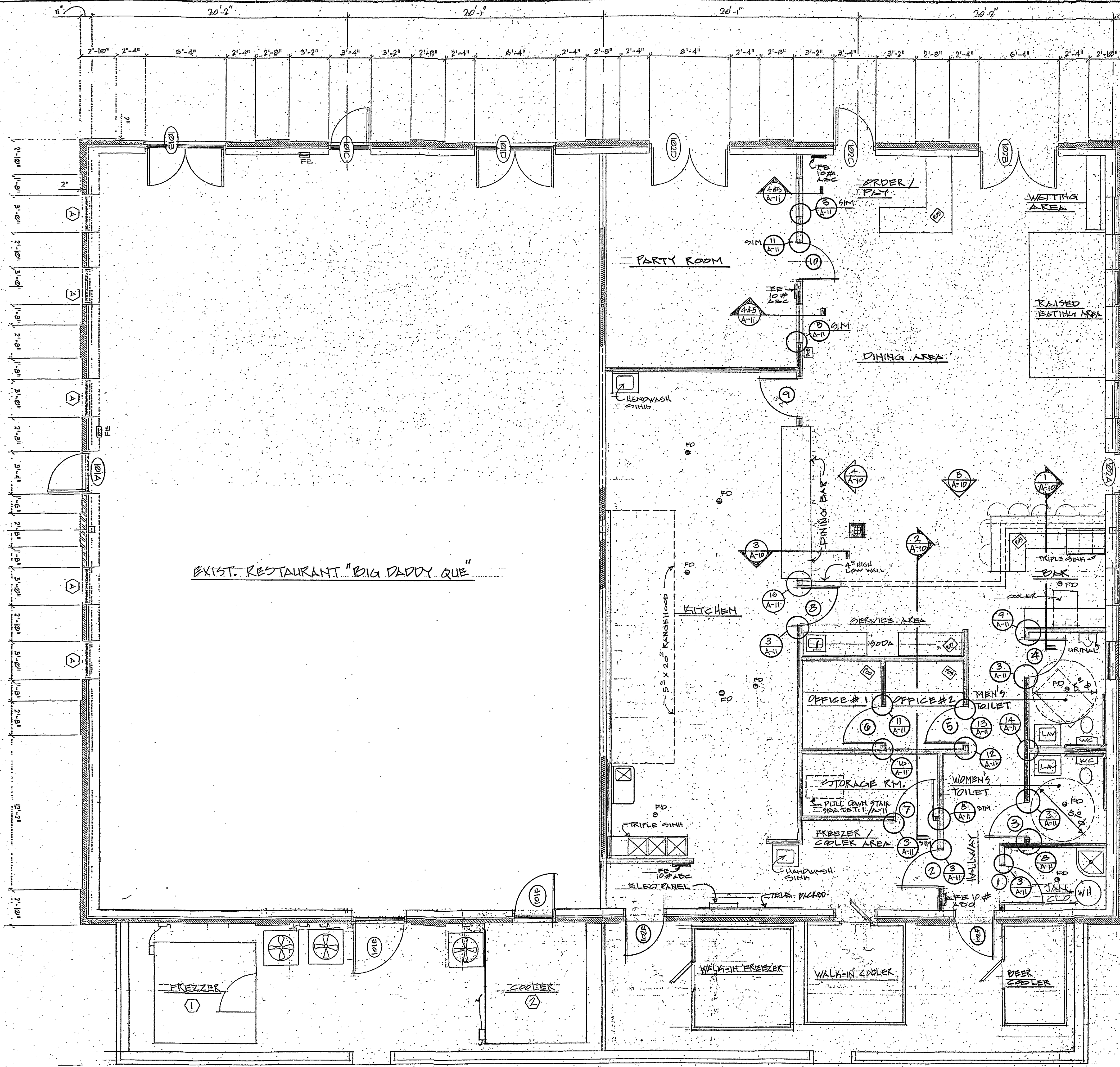
REVISIONS 8/24/2018
REVISIONS 10/12/2018

HEP PROJECT NUMBER:
DRAWN BY:
CHECKED BY:
DATE RELEASED FOR CONSTRUCTION:
FILE NAME:
SHEET TITLE:
COVER SHEET
SHEET NUMBER:
A-1

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FOR CONSTRUCTION ONLY

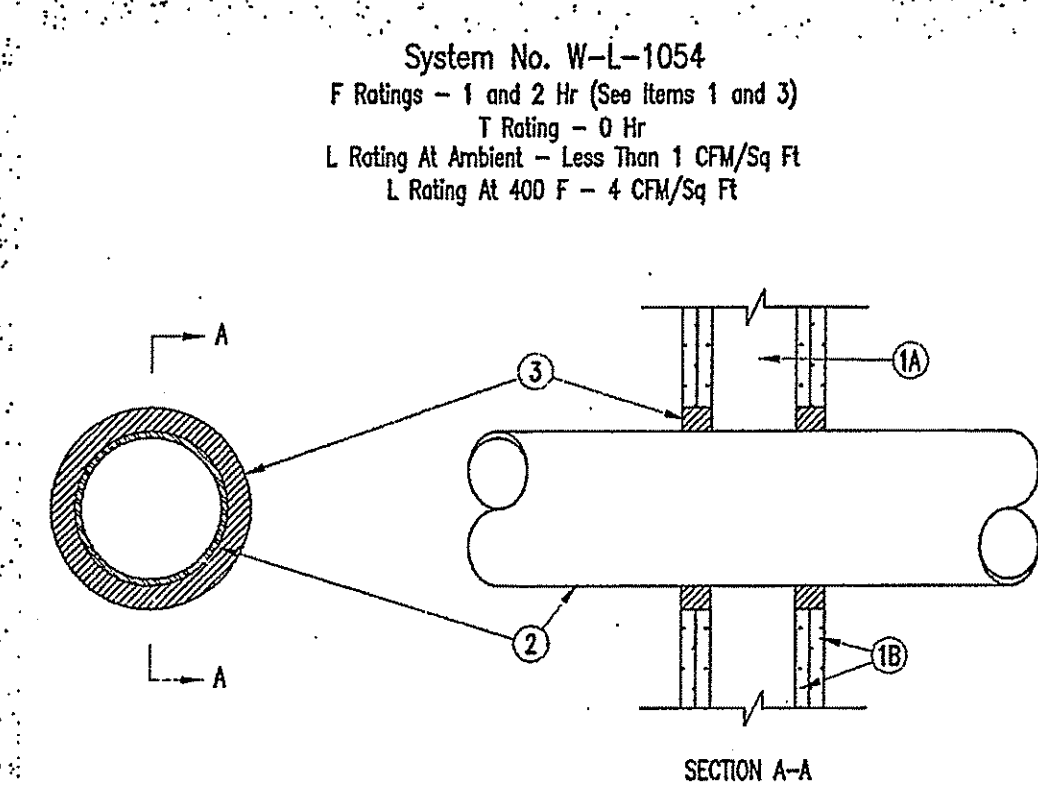
BLD-2018-07308
JOB SITE



EXIST. RESTAURANT "BIG DADDY QUE"

FLOOR PLAN

SCALE: 1/4" = 1'-0"

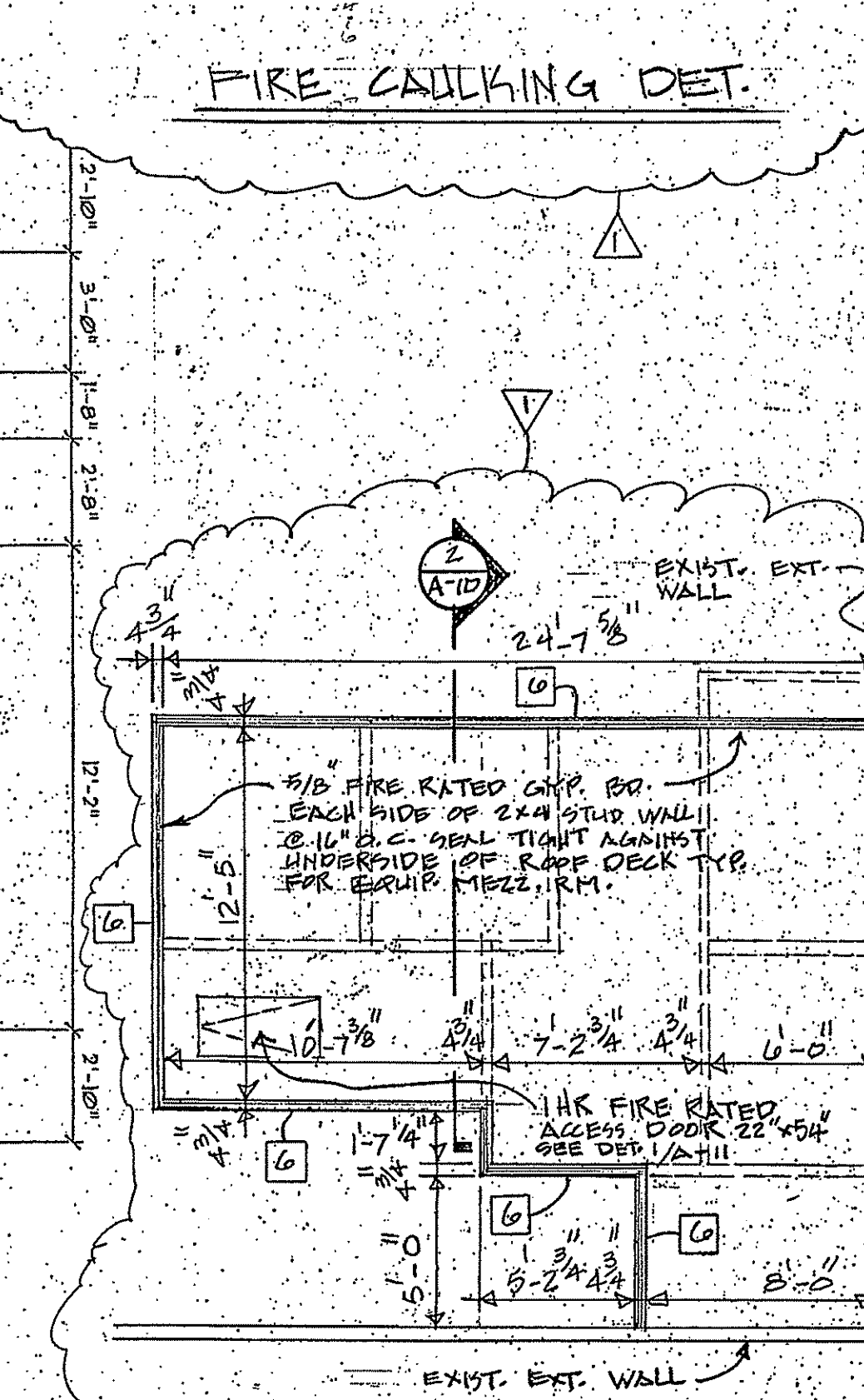


System No. W-L-1054
F Ratings - 1 and 2 Hr (See Items 1 and 3)
T Rating - 0 Hr
L Rating At Ambient - Less Than 1 CFM/Sq Ft
L Rating At 400 F - 4 CFM/Sq Ft

1. Wall Assembly - The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
A. Studs - Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of min 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 2-1/2 in. wide and spaced max 24 in. OC. When steel studs are used and the dim of opening exceeds the width of stud cavity, the opening shall be framed on all sides using lengths of steel stud installed between the vertical studs and screw-attached to the steel studs at each end. The framed opening in the wall shall be 4 to 6 in. wider and 4 to 6 in. higher than the dim of the penetrating item such that, when the penetrating item is installed in the opening, a 2 to 3 in. clearance is present between the penetrating item and the framing on all four sides.
B. Gypsum Board - 5/8 in. thick, 4 ft wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and steel orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max dim of opening is 32-1/4 in. for steel stud walls. Max dim of opening is 14-1/2 in. for wood stud walls.
The F Rating of the firestop system is equal to the fire rating of the wall assembly.

System No. W-L-1054
F Ratings - 1 and 2 Hr (See Items 1 and 3)
T Rating - 0 Hr
L Rating At Ambient - Less Than 1 CFM/Sq Ft
L Rating At 400 F - 4 CFM/Sq Ft

2. Through-Penetrants - One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. The annular space shall be min 0 in. to max 2-1/4 in. Pipe may be installed with continuous point contact. Pipe, conduit or tubing may be installed at an angle not greater than 45 degrees from perpendicular. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
A. Steel Pipe - Nom 30 in. diam (or smaller) Schedule 10 (or heavier) steel pipe.
B. Iron Pipe - Nom 30 in. diam (or smaller) cast or ductile iron pipe.
C. Conduit - Nom 4 in. diam (or smaller) steel electrical metallic tubing or 6 in. diam steel conduit.
D. Copper Tubing - Nom 6 in. diam (or smaller) Type 1 (or heavier) copper tubing.
E. Copper Pipe - Nom 6 in. diam (or smaller) regular (or heavier) copper pipe.
3. Fill, Void or Cavity Isolant - Sealant - Min 3/8 in. thickness of fill material applied within the annulus, flush with both surfaces of wall. At the point or continuous contact locations between pipe and wall, a min 1/2 in. diam bead of fill material shall be applied at the pipe wall interface on both surfaces of wall.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC - FS-One Sealant
*Bearing the UL Classification Mark



EQUIPMENT MEZZ.
SCALE: 3/16" = 1'-0"
NOTE: DOMESTIC FIRE SPRINKLER PLAN APPROVED BY FIRE MARSHAL FOR MEZZ. IS ON SHEET A-5

HEP

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STAMP

Hollis Puckett
Hollis Puckett, Jr.
7-13-2018
REGISTERED ARCHITECT
GA 00046

KEY PLAN

PRINTING AND REVISIONS

MARK	DATE	DESCRIPTION
1	REVISION 8/24/2018	
2	REVISION 10/10/2018	

HEP PROJECT NUMBER:

DRAWN BY:

CHECKED BY:

DATE RELEASED FOR CONSTRUCTION

FILE NAME

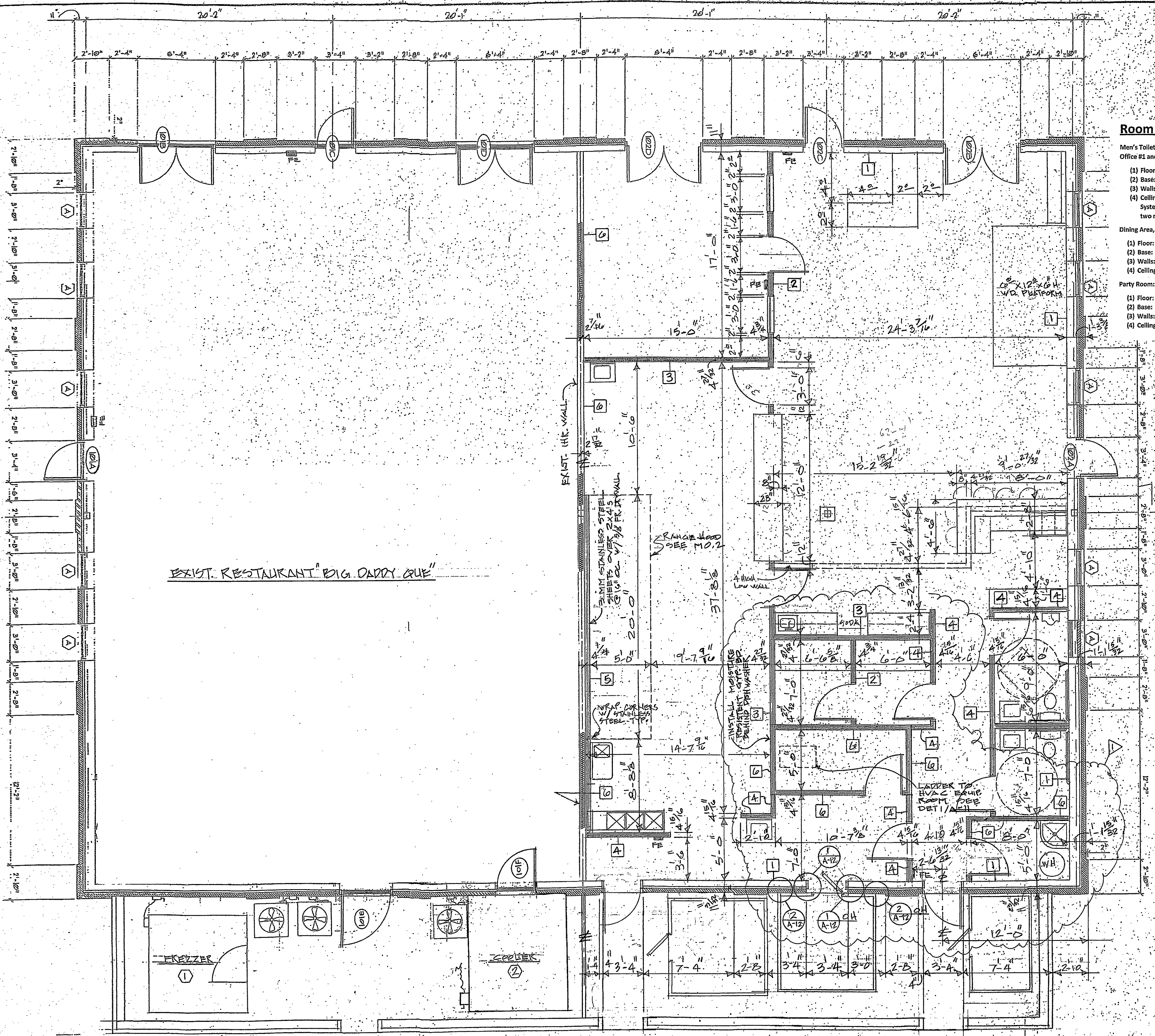
SHEET TITLE

SHEET NUMBER

A-3

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Room Finish Schedule

Men's Toilet, Women's Toilet, Jan. Closet, Hallway, Freezer / Cooler Area, Storage Room, Office #1 and #2, Service Area, Bar and Kitchen:

- (1) Floor: 8"x8" Thin-set non-slip Quarry Floor Tile
- (2) Base: 6"x6" Quarry Tile
- (3) Walls: 3/32" Fiberglass Reinforced Panels
- (4) Ceilings: 2'x2' Suspended Ceiling Armstrong Kitchen Zone #673 W/ Prelude Grid System throughout except in the following areas: Jan. Closet and Storage Room. These two rooms are to have drywall with smooth finish painted with Epoxy paint.

Dining Area, Waiting Area, Raised Eating Area, Order/ Pay Area:

- (1) Floor: 1"x2" Thin-set non-slip Marble Floor Tile
- (2) Base: 6"x6" Marble Base
- (3) Walls: Painted Gypsum Board
- (4) Ceiling: Exposed Structure Painted Flat Black

Party Room:

- (1) Floor: 1"x2" Thin-set non-slip Marble Floor Tile
- (2) Base: 6"x6" Marble Base
- (3) Walls: Painted Gypsum Board
- (4) Ceiling: 2'x2' Suspended Acoustical Tile Ceiling- Armstrong #934 Reveal Edge

FLOOR PLAN

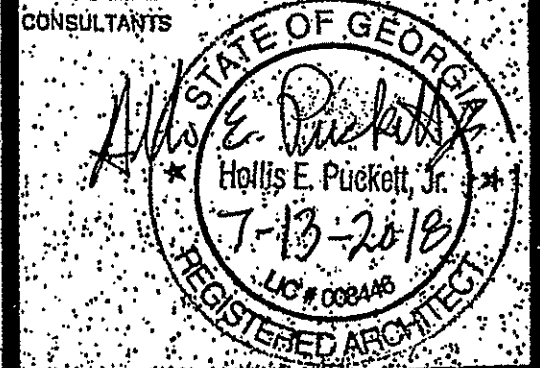
SCALE: 1/4" = 1'-0"
FOR WALL TYPES SEE SHEET A-3

FOR CONST. ONLY

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REV. PLAN



PRINTING AND REVISIONS
MARK DATE DESCRIPTION
D REVISED 8/24/2013

HEP PROJECT NUMBER:
DRAWN BY:
CHECKED BY:
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FILE NAME:
SHEET TITLE:

SHEET NUMBER
A-4

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RELEASED FOR CONSTRUCTION

RELEASED FOR CONSTRUCTION

GENERAL NOTES

1. CONTRACTOR SHALL FIELD VERIFY TYPE OF SOILS. IF CORROSIVE SOILS ARE ENCOUNTERED, TAKE NECESSARY PRECAUTIONS FOR ALL UNDER GROUND WORK.
2. CONTRACTOR SHALL VERIFY ALL DIMENSIONS ON DRAWINGS FOR CONFLICTS PRIOR TO CONSTRUCTION. THE CONTRACTOR WILL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES. DO NOT SCALE DRAWINGS.
3. BIDDERS ARE INSTRUCTED TO CAREFULLY REVIEW THE CONSTRUCTION DOCUMENTS & SITE.
4. NO STRUCTURE OF ANY KIND TO BE CONSTRUCTED ON, OVER OR PLACED WITHIN THE PUBLIC UTILITY EASEMENTS EXCEPT WOOD, WIRE OR REMOVABLE SECTION TYPE FENCING AND/OR PAVING.
5. CONTRACTOR TO COORDINATE STAGING AREAS AS REQUIRED WITH LANDLORD & OWNER.
6. ANY DAMAGE BY E.C. OR SUBCONTRACTOR TO EXISTING ASPHALT PAVEMENT AND/OR EXISTING LANDSCAPING OUTSIDE OF CONSTRUCTION LIMIT LINE SHALL BE REPAIRED AT NO COST TO OWNER.
7. SIDEWALK ELEVATIONS TO BE COORDINATED WITH SITE-AS-BUILT CONDITIONS. ARCHITECT TO BE NOTIFIED OF ANY DISCREPANCIES.
8. E.C. TO COORDINATE LOCATION & PLACEMENT OF GREASE REMOVAL SYSTEM WITH PLUMBING CONTRACTOR. FIELD VERIFY ANY (S) SITE CONDITIONS THAT MAY IMPEDE INSTALLATION AND/OR OPERATION OF SUCH.
9. APPROVED NUMBERS OR ADDRESSES SHALL BE MAINTAINED & AS CURRENTLY PLACED ON BUILDING.
10. NO MATERIALS SHALL BE STORED ON PUBLIC PROPERTY UNLESS AN ENCROACHMENT PERMIT IS FIRST OBTAINED FROM THE PUBLIC WORKS DEPARTMENT.
11. ALL DIMENSIONS ARE TO FACE OF GYPSUM BOARD AT FRAMED WALLS & SOFFITS, TYPICAL UNLESS OTHERWISE NOTED. AT MILKWOOD LOW WALLS, DIMENSIONS ARE TO FACE OF FINISHED WALL, TYPICAL.
12. CONTRACTOR SHALL PROVIDE CONSTRUCTION FENCE FOR PEDESTRIAN PROTECTION ACCORDING TO LOCAL REGULATIONS & BUILDING CODE.
13. TEMPORARY TOILET FACILITIES SHALL BE PROVIDED.
14. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETE SECURITY & SAFETY OF THE SITE WHILE THE JOB IS IN PROGRESS & UNTIL THE JOB IS COMPLETE.
15. CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO ENSURE THE SAFETY OF THE OCCUPANTS & WORKERS AT ALL TIMES.
16. ALL DEBRIS SHALL BE REMOVED FROM THE PREMISES DAILY & WORK AREAS SHALL BE LEFT IN A CLEAN (ROOM) CONDITION AT ALL TIMES.
17. CONTRACTOR SHALL PROVIDE A LIST OF SUBCONTRACTORS TO THE OWNER. *N/A*
18. CONTRACTOR SHALL COMPLY WITH ALL STATE & LOCAL RULES & REGULATIONS CONCERNING LICENSING WHICH THE APPLICABLE GOVERNING AUTHORITY MAY HAVE ADOPTED.
19. ALL WEATHER-EXPOSED SURFACES SHALL HAVE A WEATHER-RESISTIVE BARRIER TO PROTECT THE INTERIOR WALL COVERING. EXTERIOR OPENINGS SHALL BE FLASHED IN SUCH A MANNER AS TO MAKE THEM WATERPROOF.
20. GENERAL CONTRACTOR SHALL PLACE ORDERS FOR ALL FINISHES, ALL MATERIALS, EQUIPMENT, ETC. THE START OF THE PROJECT. SUBSTITUTIONS ARE NOT ACCEPTED FOR ANY ITEMS, UNLESS NOTED OTHERWISE. OWNER & ARCHITECT MUST BE INFORMED OF LEAD TIME PROBLEMS WITHIN THE FIRST TWO WEEKS OF THE PROJECT.
21. PROVIDE VENTILATION FOR KITCHEN & FOOD PREPARATION AREAS PER MECHANICAL DRAWINGS. *N/A*
22. SIGNS ARE REQUIRED FOR ALL MP&E ROOMS & SPRINKLER CONTROL VALVE ROOMS.
23. PRIOR TO THE ISSUANCE OF A BUILDING PERMIT, THE APPLICANT SHALL HAVE EVIDENCE OF CURRENT WORKMAN'S COMPENSATION INSURANCE COVERAGE ON FILE WITH THE DEPARTMENT IN COMPLIANCE WITH THE LOCAL LABOR CODE.
24. AFTER OBTAINING BUILDING PERMIT AND BEFORE COMMENCING WITH THE WORK, THE GENERAL CONTRACTOR SHALL SHOW EVIDENCE OF ALL THE INSURANCE REQUIREMENTS.
25. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AND OBTAIN ALL PERMITS AND LICENSES AND PAY REQUIRED FEES.
26. CONTRACTOR SHALL BE FAMILIAR WITH ALL LANDLORD REQUIREMENTS AND SHALL BE RESPONSIBLE FOR COMPLIANCE WITH SAME. CONTRACTOR SHALL INVESTIGATE LOCAL CODES AND PROCEDURES AND SHALL COMPLY WITH ALL REQUIREMENTS.
27. A COPY OF LANDLORD'S FINAL APPROVED PLANS MUST BE ON SITE DURING CONSTRUCTION.
28. REMOVE ALL ABANDONED IMPROVEMENTS, INCLUDING ELECTRICAL AND MECHANICAL, IF ANY.
29. INSPECT SITE. VERIFY FIELD DIMENSIONS BEFORE COMMENCING CONSTRUCTION. NOTIFY TENANT AND LANDLORD IMMEDIATELY IF THERE ARE ANY SIGNIFICANT DISCREPANCIES.
30. WHERE FACTORY FINISHED OR FACTORY PRINTED ITEMS OCCUR, SUCH AS GRILLES, DIFFUSERS, METAL TRIM AND ACCESSORIES, ETC. THEY SHALL BE PAINTED TO MATCH THE ADJACENT SURFACE AND AS DIRECTED BY THE OWNER.
31. CONTRACTOR SHALL, IN THE WORK OF ALL TRADES, PERFORM ANY AND ALL CUTTING, PATCHING, REPAIRING, RESTORING AND THE LIKE NECESSARY TO COMPLETE THE WORK AND TO RESTORE ANY DAMAGED OR DETERIORATED SURFACES RESULTING FROM THE WORK OF THIS CONTRACT TO THEIR ORIGINAL CONDITION TO THE SATISFACTION OF THE OWNER.
32. THERE SHALL BE NO EXPOSED PIPE, CONDUITS, ETC. IN PUBLIC AREAS, UNO. ALL SUCH LINES SHALL BE CONCEALED OR FINISHED.
33. GENERAL CONTRACTOR SHALL COORDINATE WORK PERFORMED BY OTHER CONTRACTORS. DISCREPANCIES IF ANY, SHOULD BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR RESOLUTION BEFORE PROCEEDING WITH THE WORK.

ACCESSIBILITY NOTES

1. ACCESS TO THESE FACILITIES SHALL BE PROVIDED AT PRIMARY ENTRANCES, AS REQUIRED BY ADA.
2. WALKS & SIDEWALKS SHALL HAVE A CONTINUOUS COMMON SURFACE NOT INTERRUPTED BY STEPS OR BY ABRUPT CHANGES IN LEVEL EXCEEDING 1/2" & SHALL BE MIN. OF 48" IN WIDTH.
3. SURFACES WITH A SLOPE OF LESS THAN 6% GRADIENT SHALL BE AT LEAST AS SLIP RESISTANT AS THAT DESCRIBED AS A MEDIUM SALTED FINISH.
4. SURFACES WITH A SLOPE OF 6% GRADIENT OR GREATER SHALL BE SLIP RESISTANT.
5. SURFACE CROSS SLOPES SHALL NOT EXCEED 1/4" PER FOOT.
6. WALKS, SIDEWALKS & PEDESTRIAN WAYS SHALL BE FREE OF GRATINGS WHENEVER POSSIBLE. FOR GRATINGS LOCATED IN THE SURFACE OF ANY OF THESE AREAS, GRID OPENINGS IN THE GRATINGS SHALL BE LIMITED TO 1/2" IN THE DIRECTION OF TRAFFIC FLOW.
7. WHEN THE SLOPE IN THE DIRECTION OF TRAVEL OF ANY WALK EXCEEDS 1 VERTICAL TO 20 HORIZONTAL, IT SHALL COMPLY WITH THE PROVISIONS OF A PEDESTRIAN RAMP.
8. ABRUPT CHANGES IN LEVEL ALONG ANY ACCESSIBLE ROUTE SHALL NOT EXCEED 1/2". WHEN CHANGES IN LEVEL DO OCCUR, THEY SHALL BE BEVELLED WITH A SLOPE NO GREATER THAN 1:2. EXCEPT THAT LEVEL CHANGES NOT EXCEEDING 1/4" MAY BE VERTICAL WHEN CHANGES IN LEVELS GREATER THAN 1/2" ARE NECESSARY, THEY SHALL COMPLY WITH THE REQUIREMENTS FOR CURB RAMPS.
9. EVERY REQUIRED EXIT DOORWAY SHALL BE SIZED FOR A DOOR NOT LESS THAN 3 FT. WIDE BY NOT LESS THAN 6'-8" HIGH CAPABLE OF OPENING 68" & MOUNTED SO THAT THE CLEAR WIDTH OF THE EXIT WAY IS 32" MIN.
10. THRESHOLDS TO BE A MAX. 1/2" ABOVE ADJACENT FINISH FLOOR.
11. MAXIMUM EFFORT TO OPERATE DOORS SHALL NOT EXCEED 5 LBS FOR ALL DOORS, SUCH PULL OR PUSH EFFORT, BEING APPLIED AT RIGHT ANGLES TO HINGED DOORS AND AT THE CENTER PLANE OF SLIDING OR FOLDING DOORS. COMPENSATING DEVICES OR AUTOMATIC DOOR OPERATORS MAY BE UTILIZED TO MEET THE ABOVE STANDARDS, WHEN FIRE DEVICES ARE REQUIRED, THE MAXIMUM EFFORT TO OPERATE THE DOOR MAY BE INCREASED TO THE MAXIMUM ALLOWABLE BY THE APPROPRIATE ADMINISTRATIVE AUTHORITY, NOT TO EXCEED 15 LBS.
12. THE BOTTOM 10" OF ALL DOORS EXCEPT AUTOMATIC & SLIDING SHALL HAVE A SMOOTH UNINTERRUPTED SURFACE.
13. PROVIDE LEVER-TYPE HARDWARE PANIC BARS, PUSH-PULL ACTIVATING BARS OR OTHER HARDWARE DESIGNED TO PROVIDE PASSAGE WITHOUT REQUIRING THE ABILITY TO GRASP THE OPENING HARDWARE. (30" TO 44" A.F.F.)
14. ALL DOORWAYS LEADING TO SANITARY FACILITIES SHALL HAVE 32" CLEAR UNOBSTRUCTED OPENING & A LEVEL & CLEAR AREA FOR A MINIMUM DEPTH OF 60" IN THE DIRECTION OF THE DOOR SWING.
15. PROVIDE 18" FROM WALL TO CENTERLINE OF W.C. & 32" FROM A WALL AT ONE SIDE & 48" IN FRONT OF W.C.
16. PROVIDE 30"x48" LONG SPACE IN FRONT OF TOILET & WITHIN THE TOILET ROOM THAT ALLOWS THE DOOR TO CLOSE.
17. GRAB BARS LOCATED ON EACH SIDE, OR ONE SIDE & THE BACK OF PHYSICALLY DISABLED TOILET STALL OR COMPARTMENT SHALL BE SECURELY ATTACHED 38" (38" FOR TANK-TYPE TOILETS) ABOVE AND PARALLEL TO THE FLOOR. GRAB BARS AT THE SIDE SHALL BE LOCATED 15" TO 16 1/2" FROM THE CENTERLINE OF THE WATER CLOSET STOOL & SHALL BE AT LEAST 42" LONG WITH THE FRONT END POSITIONED 24" IN FRONT OF THE WATER CLOSET STOOL. GRAB BARS AT THE BACK SHALL BE NOT LESS THAN 30" LONG. THE DIAMETER OR WIDTH OF THE GRIPPING SURFACES OF A GRAB BAR SHALL BE 1 1/2" TO 1 1/2". USE THE SHAPE SHALL PROVIDE AN EQUIVALENT GRIPPING SURFACE IF GRAB BARS ARE MOUNTED ADJACENT TO A WALL. THE SPACE BETWEEN THE WALL & THE GRAB BARS SHALL BE 1 1/2".
18. WATER CLOSET HEIGHT SHALL BE 17" (MIN) & A 19" (MAX) MEASURED TO THE TOP OF THE TOILET SEAT. CONTROLS SHALL BE OPERABLE WITH ONE HAND & SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. CONTROLS FOR PUSH VALVES SHALL BE MOUNTED ON THE WIDE SIDE OF TOILET AREAS. NO MORE THAN 44" A.F.F. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 LBS. OF FORCE.

FIRE DEPARTMENT NOTES

1. CONTRACTOR TO PROVIDE A SUFFICIENT NUMBER OF 2A10BC RATED FIRE EXTINGUISHERS DURING CONSTRUCTION SO THAT ALL PORTIONS OF THE BUILDING ARE WITHIN 75 FT. TRAVEL DISTANCE OF SAID EXTINGUISHER & SO THAT AT LEAST ONE 2A10BC RATED FIRE EXTINGUISHER IS PROVIDED FOR EACH 3,000 SQ. FT. OF FLOOR SPACE OR PORTION THEREOF. *SEE SHEET A-3 FOR LOCATION.*
2. PROVIDE A PORTABLE FIRE EXTINGUISHER WITH A RATING OF NOT LESS THAN 4B-B FOR KITCHEN. LOCATE EXTINGUISHERS PER LOCAL FIRE DEPARTMENT INSPECTOR. *N/A*
3. PROVIDE FIRE EXTINGUISHERS AS REQUIRED BY FIRE DEPARTMENT FIELD INSPECTOR DURING CONSTRUCTION & FOR COMPLETED PROJECT.
4. ALL EXIT DOORS SHALL SWING IN THE DIRECTION OF TRAVEL UNLESS SHOWN OTHERWISE.
5. ALL EXIT DOORS SHALL BE OPENABLE FROM THE INSIDE WITHOUT SPECIAL KNOWLEDGE OR EFFORT (NO DEAD BOLTS, NO SLIDING BOLTS, ETC.).
6. AN OCCUPANT LOAD SIGN SHALL BE POSTED IN EACH ASSEMBLY ROOM HAVING AN OCCUPANT CONTENT OF 50 OR MORE. SIGN IS TO BE POSTED NEAR ENTRANCE, COORDINATE LOCATION OF SUCH SIGN WITH FIRE MARSHAL. SIGN TO BE PROVIDED & INSTALLED BY OWNER VENDOR.
7. MAINTAIN MIN. 44" AISLES TO EXIT OR PUBLIC WAY.
8. PROVIDE EXIT SIGNS ABOVE EXITS WITH MIN. 3/4"x6" LETTERS LIGHTED ON CONTRASTING BACKGROUND.
9. EXIT SIGNS MUST BE INTERNALLY ILLUMINATED.
10. PROVIDE TWO (2) SEPARATE POWER SUPPLIES FOR EXIT SIGNS CONFORMING TO CODE SECTION.
11. PROVIDE EMERGENCY EXIT LIGHTING PROVIDING A VALUE OF ONE FOOT CANDLE AT FLOOR LEVEL.
12. ADDITIONAL EXIT SIGNS WILL BE PROVIDED AS IF DIRECTED BY THE CITY INSPECTOR.
13. SEE "ROOM FINISH SCHEDULE" FOR SMOKE DENSITY RATING & FLAME SPREAD RATING OF MATERIALS USED.
14. INTERIOR WALL & CEILING FINISHES FOR ASSEMBLY AREAS SHALL NOT EXCEED AN END POINT FLAME SPREAD RATING OF 20.
15. ANY DECORATIONS USED SHALL BE NON-COMBUSTIBLE OR FLAME PROOFED IN AN APPROVED MANNER.
16. DRAPES & OTHER DECORATIVE MATERIALS SHALL BE FLAME RETARDANT. CERTIFICATION THEREOF SHALL BE PROVIDED. EXITS, EXIT SIGNS, FIRE ALARM STATIONS, HOSE CABINETS & EXTINGUISHER LOCATIONS SHALL NOT BE CONCEALED BY DECORATIVE MATERIALS.
17. FINISHES SHALL NOT EXCEED CLASS A, B OR C AS INDICATED IN THE BUILDING CODE.
18. PROVIDE OUTSIDE GAS SHUT-OFF VALVE CONSPICUOUSLY MARKED. *IF NEEDED*
19. UNLESS ALREADY EXISTING, AN APPROVED SET OF NUMERALS, MINIMUM 4" HIGH WITH A STROKE WIDTH OF NOT LESS THAN 1/2 INCH, SHALL BE PLACED ON THE BUILDING. THE NUMERALS SHALL BE PLACED IN SUCH A POSITION AS TO BE PLAINLY VISIBLE & LEGIBLE FROM THE STREET OR ROAD FRONTING THE PROPERTY. SAID NUMERALS SHALL CONTRAST WITH THEIR BACKGROUND. IF THE ADDRESS THAT IS POSTED NEAR THE INTERSECTION OF THE DRIVEWAY & THE PUBLIC STREET OR ROAD FRONTING THE PROPERTY IS NOT VISIBLE, ADDITIONAL ADDRESSES POSTED NEAR THE INTERSECTION OF THE DRIVEWAY & THE PUBLIC STREET ARE REQUIRED. (VERIFY REQUIREMENTS.)
20. PROVIDE A KNOX BOX FOR FIRE DEPT. ACCESS & KEY ACCESS, LOCATION AS DETERMINED BY FIRE MARSHAL.
21. EXIT SIGNAGE SHALL BE PROVIDED & MAINTAINED FOR CORRIDORS & AISLE WAYS LEADING TO EXITS IN ACCORDANCE WITH STATE CODE. SIGNAGE SHALL STATE "OBSTRUCTIONS, INCLUDING STORAGE, SHALL NOT BE PLACED IN THE REQUIRED WIDTH OF AN EXIT OR EXIT PASSAGEWAY."
22. GENERAL CONTRACTOR SHALL SECURE PERMITS REQUIRED BY THE FIRE DEPARTMENT FROM THE FIRE DEPARTMENT PRIOR TO OCCUPANCY THIS BUILDING.
23. FIRE DEPARTMENT FINAL INSPECTION REQUIRED. G.C. TO VERIFY INSPECTION SCHEDULING REQUIREMENTS AT LEAST 14 DAYS PRIOR TO COMPLETION OF WORK.
24. STORAGE, DISPENSING OR USE OF ANY FLAMMABLE & COMBUSTIBLE LIQUIDS, FLAMMABLE & COMPRESSED GASES & OTHER HAZARDOUS MATERIALS SHALL COMPLY WITH STATE BUILDING CODE REGULATIONS.
25. ANY TYPE I HOOD INSTALLATION & SHAFT CONSTRUCTION MUST COMPLY WITH THE STATE & MECH CODE. *N/A*
26. WHEN ALLOWED BY FIRE MARSHAL AND/OR BUILDING INSPECTOR, FIRE BLOCKS CAN BE SUBSTITUTED WITH APPROVED FIRE SPRINKLER SYSTEM.
27. IN ADDITION TO THE SPRINKLER MONITORING SYSTEM, A FIRE SYSTEM PER NFPA 72A SPECIFICATIONS MUST BE INSTALLED. PLANS FOR THE FIRE ALARM MUST BE SUBMITTED TO THE BUILDING DEPARTMENT FOR FIRE DEPARTMENT REVIEW PRIOR TO INSTALLATION. THE KITCHEN HOOD FIRE PROTECTION SYSTEM WILL CAUSE INITIATION OF AN ALARM SIGNAL. *N/A*
28. ALL EXIT DOORS & INTERVENING DOORS ON THE EXIT PATH, IF PROVIDED WITH A LOCK OR LATCH, MUST BE PROVIDED WITH PANIC HARDWARE.
29. PLANS FOR THE KITCHEN HOOD FIRE PROTECTION SYSTEM MUST BE SUBMITTED TO THE BUILDING DEPARTMENT FOR REVIEW BY THE FIRE DEPARTMENT PRIOR TO INSTALLATION.
30. THE FIRE SPRINKLER SYSTEM DESIGN CRITERIA IS AS SET FORTH BY THE FIRE MARSHAL. *N/A*
31. PREMISES IDENTIFICATION TO BE LEGIBLE FROM STREET OR DRIVE & MUST BE ON ALL PLANS.
32. IT IS THE DEVELOPERS RESPONSIBILITY TO DETERMINE ULTIMATE COMPLIANCE WITH THE FAIR HOUSING AMENDMENTS ACT & AMERICANS WITH DISABILITIES ACT & INCORPORATE SAME INTO THEIR BUILDING.

19. (1) URINAL SHALL BE 17" (MAX) ABOVE THE FLOOR & PROJECT A 1/4" (MIN) FROM THE WALL. URINAL TO HAVE A CLEAR SPACE OF 30"x48" IN FRONT. FLOSH VALVE TO BE HAND-OPERATED & SHALL BE MOUNTED NO MORE THAN 44" A.F.F.
20. PROVIDE 30"x48" CLEAR SPACE IN FRONT OF LAVATORY WITH MIN. 19" CLEAR KNEE SPACE UNDER COUNTER & 29" CLEAR FROM FLOOR TO BOTTOM OF APRON WITH KNEE.
21. LAVATORIES ADJACENT TO A WALL SHALL BE MOUNTED WITH A MINIMUM DISTANCE OF 18" TO THE FIXTURE. ALL ACCESSIBLE LAVATORIES SHALL BE MOUNTED WITH THE RIM OR COUNTER SURFACE NO HIGHER THAN CLEARANCE OF 4" FROM THE FLOOR TO THE BOTTOM OF THE APRON WITH KNEE CLEARANCE UNDER THE FRONT LIP EXTENDING A MINIMUM OF 30" IN WIDTH, WITH 6" MINIMUM DEPTH AT THE TOP. TOP CLEARANCE SHALL BE THE SAME WIDTH & SHALL BE A MINIMUM OF 17" DEEP FROM THE FRONT OF THE LAVATORY & A MINIMUM 6" HIGH FROM THE FLOOR.
22. HOT WATER & DRAIN PIPES UNDER LAVATORIES SHALL BE INSULATED OR OTHERWISE COVERED. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES.
23. FAUCET CONTROLS & OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND & SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 LBS. LEVER-OPERATED, PUSH-TYPE & ELECTRONIC CONTROLLED MECHANISMS ARE EXAMPLES OF ACCEPTABLE DESIGNS. SELF-CLOSING VALVES ARE ALLOWED IF THE FAUCET IS OPEN FOR AT LEAST 10 SECS.
24. LOCATE TOWEL, SANITARY NAPKIN & WASTE RECEPTACLES WITH ALL OPERABLE PARTS WITHIN 40" FROM FINISH FLOOR.
25. LOCATE TISSUE DISPENSERS ON THE WALL WITHIN 12" OF THE FRONT EDGE OF THE TOILET SEAT.
26. WHERE APPLICABLE, LOCATE EMPLOYEE LOCKERS AS NOTED ON PLANS.
27. 14" THICK IDENTIFICATION SYMBOLS (A 12" TRIANGLE FOR MEN, A 12" DIAMETER CIRCLE FOR WOMEN OR A TRIANGLE SUPERIMPOSED ON A 12" DIAMETER CIRCLE FOR UNISEX) CENTERED AT HEIGHT OF 60" A.F.F. SHALL BE PROVIDED ON DOORS TO SANITARY FACILITIES.
28. THERE SHALL BE A LEVEL & CLEAR FLOOR OR LANDING ON EACH SIDE OF A DOOR. THE LEVEL ARE SHALL HAVE A LENGTH IN THE DIRECTION OF DOOR SWING OF AT LEAST 60" & THE LENGTH OPPOSITE THE DOOR SWING OF AT LEAST 48" AS MEASURED AT RIGHT ANGLES TO THE PLANE OF THE DOOR IN THE CLOSED POSITION. SUBMIT FOR ARCHITECTS REVIEW.
29. ALL WALKS WITH CONTINUOUS GRADIENTS SHALL HAVE LEVEL AREAS AT LEAST 5'-0" IN LENGTH AT INTERVALS OF AT LEAST EVERY 40'.

NOTE: CLG. GRID MUST BE DELIGHTED AND INSTALLED PER CLG. DET.

CEILING ADVICE FOR ZONES 0 & 1

UBCS had no requirements for ceilings in Zones 1 and 0. The seismic zones given in UBC, BOCA, or SBC were weighed in terms of anticipated risk of future earthquake occurrence. As has been demonstrated repeatedly by history, earthquakes can occur anywhere. It should be noted that 80% of the United States is within Seismic Zone 2 or less. UBC, SBC, and BOCA utilize similar seismic maps based on the USGS provisions. For Zone 2 or less applications, the UBCS bracing requirements at 12 ft. on center are not consistent with lateral force coefficients of 0.15 for Zone 2 or less. The UBCS' requirements were predicated using a 0.20 lateral acceleration factor and the assumption that the brace bracing would provide seismic restraint to prevent the mode of failure observed in past earthquakes. Experience has shown that the epoxy wire bracing does not provide full displacement resistant for Zone 4 force levels, thus it would provide essentially no restraint for displacements for Zone 2 or less force levels. It would not be improved in Zone 2 or less. The international splice strength requirement in UBCS of 180 lbs. is based upon a reinforced ceiling membrane with Zone 4 force levels. To be consistent, a test strength level of 90 lbs. would be appropriate for Zone 2. This would lead to design force values of 45 lbs. per intersection. If the ceiling were not restrained, the grid intersection would sustain only minor forces, given that sufficient clearance of perimeter and column clearance is provided to allow rigid body motion of the suspended ceiling membrane. In a real world situation, however, we should expect that some inadvertent restraint would occur, leading to force transfer through the grid intersections. This, it would appear prudent to specify a minimum connection strength for ceiling grid intersections during a seismic event. The objective is to have a free-floating ceiling. Dynamic testing of a ceiling for response motions consistent with Zone 2 lateral force levels has validated the concept.

1. Independent safety wires on light fixtures to prevent droop out.
 2. Minimum strength requirements for splices and cross member/runner intersections.
- These basic provisions are also listed in approximate order of priority. The idea of a single connection strength regardless of seismic zone is not new. In fact, the BOCA and SBC have incorporated such recommendations for structural connections. Using these recommendations and assuming an inverted restraint of a 12 ft. x 12 ft. ceiling area with 4 intersections, we obtain an approximate design value of 30 lbs. or an approximate test strength of 60 lbs.

CEILING ADVICE FOR ZONES 0 & 1

The following seismic provisions are not based on direct analysis, but rather a judgment that certain minimum

1. Each fixture and attachment with a combined weight greater than 56 lbs. must be independently supported from the structure.
2. The main runner/cross runner intersections and all grid splices must have an average ultimate test strength of 60 lbs. or more in both tension and compression. The tensile test must allow for a 5" offset of the connection in any direction.
3. The actual average weight of the ceiling system, including grid, panels or tile, light fixtures, and air terminals must be 2.5 psf or less. All other services shall be supported independently from the ceiling system. For ceilings that have an average weight greater than 2.5 psf, the ceiling may be installed as specified in Zone 3-4 provisions, taking into account the design lateral force factor appropriate for Zone 3. Other deviations or variations must be substantiated by verifiable engineering data.
4. The ceiling system cannot be used to provide lateral support for walls or partitions. Walls or partitions may be attached to the ceiling grid provided they allow the ceiling membrane to move laterally to accommodate the required clearance as specified below.
5. All perimeter closure angles or channels must provide a support edge of approximately 70 lbs. or greater. A perimeter and a grid member must rest on the ledge or seating with at least 3/8-in. clearance from an edge or wall as shown in Figure 1. Ravel (shadow) edge wall closures should accommodate these clearances as shown in Figure 2. For perimeter closure angles that provide a support ledge of less than rigid above, the perimeter ends of each cross runner and main runner shall be independently supported within

ACT. TILE CLG. DET.

Installation requirements are necessary without regard to seismic zone. Since epoxy with neoprene apply function if ceilings have substantial displacement, it does not appear necessary to provide such restraint in moderate to low risk seismic areas (Zones 0-2). A ceiling system that is sufficiently unrestrained or free to accommodate the movement of a structure can provide the desired performance during a seismic event given that certain specified limitations are met. The recommendations contained herein are limited to detaching structural tiles or lay-in panel ceilings as defined in ASTM C935. All dynamic tests conducted to date also have utilized this configuration.

BASIC PROVISIONS FOR ZONES 0 & 1

International Building Code (IBC) Seismic Design Categories A and B. Based on the above observations, the following installation practices are recommended for ceiling systems in Zones 0 and 1. These recommendations are consistent with existing code requirements for these zones.

- 1) Each individual fixture and attachment with a combined weight of 56 lbs. or less shall have two No. 12 gauge wire hangers wires attached at diagonal corners of the fixture. These wires may be sheath. Any fixture attachments with a combined weight greater than 56 lbs. must be independently supported from the structure.
- 2) The main runner/cross runner intersections and all grid splices must have an average ultimate test strength of 60 lbs. or more in both tension and compression.

PROVISIONS - APPLICABLE FOR ZONES 0 & 1

IBC Seismic Design Category C

The intent of the following provisions is to provide an unrestrained ceiling system that will accommodate the movement of the structure during a seismic event. The objective is to have a free-floating ceiling. Dynamic testing of a ceiling for response motions consistent with Zone 2 lateral force levels has validated the concept.

RECOMMENDATIONS

- 1) A ceiling area of 144 square feet or less surrounded by walls that connect directly to the structure above shall be exempt from the requirements listed below.
- 2) Ceilings constructed of both and plaster or gypsum board and/or wall attached to supported structure must be attached to a ceiling on one level extending from wall to wall shall be exempt from the requirements listed below.

REQUIREMENTS

- 1) Each individual fixture and attachment with a combined weight of 10 lbs. or less shall have one No. 12 gauge wire hanger wire connected from the fixture housing to the structure above. This wire may be sheath. Each individual fixture and attachment with a combined weight of 56 lbs. or less shall have two No. 12 gauge wire hanger wires attached at diagonal corners of the fixture and connected from the fixture housing to the structure above. These wires may be sheath.

8. In each wall or ceiling discontinuity as shown in Figure 3. This support may be a No. 12 gauge hanger wire or other support that prevents the grid from falling. This wire does not need to be vertical but should not have a slope greater than 1 in 6 out-of-plumb. A 5/8 in. grid end clearance from a wall should be maintained. All ceiling penetrations (columns, registers, etc.) and independently supported fixtures or services are to be considered as perimeter closures that also must allow the noted clearances by using suitable sealant or closure details.

6) At wall closure ledges, the cross runner and main runner ends shall be prevented from spreading apart from each other. Perimeter attachment (e.g. top rivets) for grid alignment purposes shall not be permitted.

7. The ceiling system cannot be used to provide lateral support for walls or partitions. Walls or partitions may be attached to the ceiling grid provided they allow the ceiling membrane to move laterally to accommodate the required clearance as specified below.

5) All perimeter closure angles or channels must provide a support ledge of approximately 70 lbs. or greater. A perimeter and a grid member must rest on the ledge or seating with at least 3/8-in. clearance from an edge or wall as shown in Figure 1. Ravel (shadow) edge wall closures should accommodate these clearances as shown in Figure 2. For perimeter closure angles that provide a support ledge of less than rigid above, the perimeter ends of each cross runner and main runner shall be independently supported within

8. In each wall or ceiling discontinuity as shown in Figure 3. This support may be a No. 12 gauge hanger wire or other support that prevents the grid from falling. This wire does not need to be vertical but should not have a slope greater than 1 in 6 out-of-plumb. A 5/8 in. grid end clearance from a wall should be maintained. All ceiling penetrations (columns, registers, etc.) and independently supported fixtures or services are to be considered as perimeter closures that also must allow the noted clearances by using suitable sealant or closure details.

6) At wall closure ledges, the cross runner and main runner ends shall be prevented from spreading apart from each other. Perimeter attachment (e.g. top rivets) for grid alignment purposes shall not be permitted.

7. The ceiling system cannot be used to provide lateral support for walls or partitions. Walls or partitions may be attached to the ceiling grid provided they allow the ceiling membrane to move laterally to accommodate the required clearance as specified below.

5) All perimeter closure angles or channels must provide a support ledge of approximately 70 lbs. or greater. A perimeter and a grid member must rest on the ledge or seating with at least 3/8-in. clearance from an edge or wall as shown in Figure 1. Ravel (shadow) edge wall closures should accommodate these clearances as shown in Figure 2. For perimeter closure angles that provide a support ledge of less than rigid above, the perimeter ends of each cross runner and main runner shall be independently supported within

8. In each wall or ceiling discontinuity as shown in Figure 3. This support may be a No. 12 gauge hanger wire or other support that prevents the grid from falling. This wire does not need to be vertical but should not have a slope greater than 1 in 6 out-of-plumb. A 5/8 in. grid end clearance from a wall should be maintained. All ceiling penetrations (columns, registers, etc.) and independently supported fixtures or services are to be considered as perimeter closures that also must allow the noted clearances by using suitable sealant or closure details.

6) At wall closure ledges, the cross runner and main runner ends shall be prevented from spreading apart from each other. Perimeter attachment (e.g. top rivets) for grid alignment purposes shall not be permitted.

7. The ceiling system cannot be used to provide lateral support for walls or partitions. Walls or partitions may be attached to the ceiling grid provided they allow the ceiling membrane to move laterally to accommodate the required clearance as specified below.

5) All perimeter closure angles or channels must provide a support ledge of approximately 70 lbs. or greater. A perimeter and a grid member must rest on the ledge or seating with at least 3/8-in. clearance from an edge or wall as shown in Figure 1. Ravel (shadow) edge wall closures should accommodate these clearances as shown in Figure 2. For perimeter closure angles that provide a support ledge of less than rigid above, the perimeter ends of each cross runner and main runner shall be independently supported within

8. In each wall or ceiling discontinuity as shown in Figure 3. This support may be a No. 12 gauge hanger wire or other support that prevents the grid from falling. This wire does not need to be vertical but should not have a slope greater than 1 in 6 out-of-plumb. A 5/8 in. grid end clearance from a wall should be maintained. All ceiling penetrations (columns, registers, etc.) and independently supported fixtures or services are to be considered as perimeter closures that also must allow the noted clearances by using suitable sealant or closure details.

6) At wall closure ledges, the cross runner and main runner ends shall be prevented from spreading apart from each other. Perimeter attachment (e.g. top rivets) for grid alignment purposes shall not be permitted.

7. The ceiling system cannot be used to provide lateral support for walls or partitions. Walls or partitions may be attached to the ceiling grid provided they allow the ceiling membrane to move laterally to accommodate the required clearance as specified below.

5) All perimeter closure angles or channels must provide a support ledge of approximately 70 lbs. or greater. A perimeter and a grid member must rest on the ledge or seating with at least 3/8-in. clearance from an edge or wall as shown in Figure 1. Ravel (shadow) edge wall closures should accommodate these clearances as shown in Figure 2. For perimeter closure angles that provide a support ledge of less than rigid above, the perimeter ends of each cross runner and main runner shall be independently supported within

8. In each wall or ceiling discontinuity as shown in Figure 3. This support may be a No. 12 gauge hanger wire or other support that prevents the grid from falling. This wire does not need to be vertical but should not have a slope greater than 1 in 6 out-of-plumb. A 5/8 in. grid end clearance from a wall should be maintained. All ceiling penetrations (columns, registers, etc.) and independently supported fixtures or services are to be considered as perimeter closures that also must allow the noted clearances by using suitable sealant or closure details.

6) At wall closure ledges, the cross runner and main runner ends shall be prevented from spreading apart from each other. Perimeter attachment (e.g. top rivets) for grid alignment purposes shall not be permitted.

7. The ceiling system cannot be used to provide lateral support for walls or partitions. Walls or partitions may be attached to the ceiling grid provided they allow the ceiling membrane to move laterally to accommodate the required clearance as specified below.

5) All perimeter closure angles or channels must provide a support ledge of approximately 70 lbs. or greater. A perimeter and a grid member must rest on the ledge or seating with at least 3/8-in. clearance from an edge or wall as shown in Figure 1. Ravel (shadow) edge wall closures should accommodate these clearances as shown in Figure 2. For perimeter closure angles that provide a support ledge of less than rigid above, the perimeter ends of each cross runner and main runner shall be independently supported within

FIGURE 1

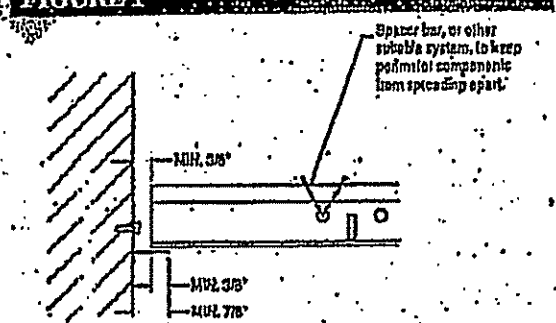


Figure 1. Zone 2 treatment of cross runner, main runner, and wall closures at terminal ends.

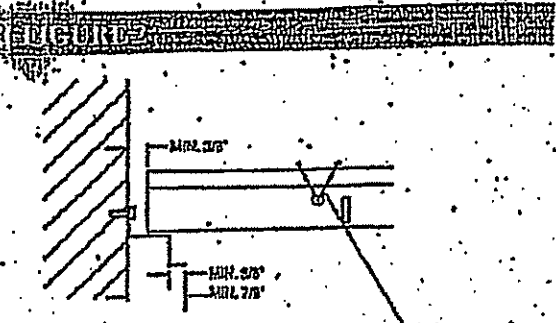


Figure 2. Treatment of cross runner and main runner at terminal ends using parallel (shadow) edge wall closure.

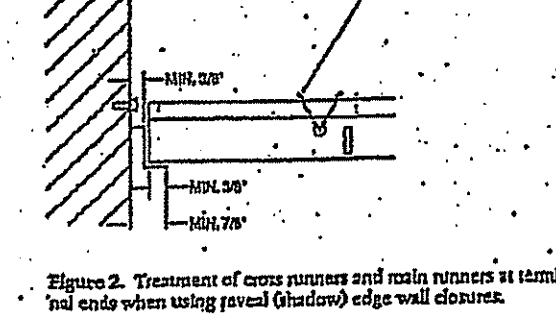


Figure 3. Treatment of cross runner and main runner at terminal ends using parallel (shadow) edge wall closure.

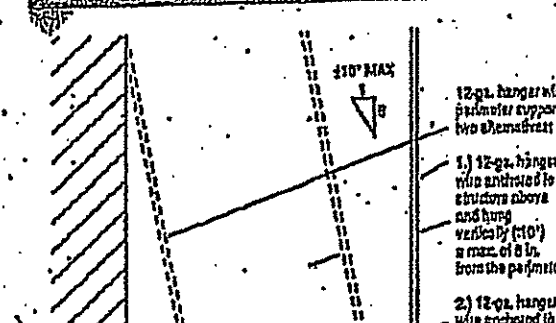


Figure 4. Treatment of cross runner and main runner at terminal ends using parallel (shadow) edge wall closure.

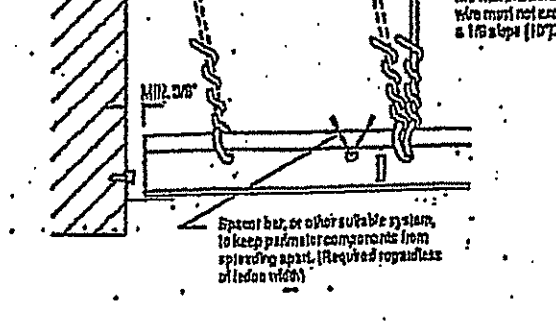


Figure 5. Treatment of cross runner and main runner at terminal ends using parallel (shadow) edge wall closure.

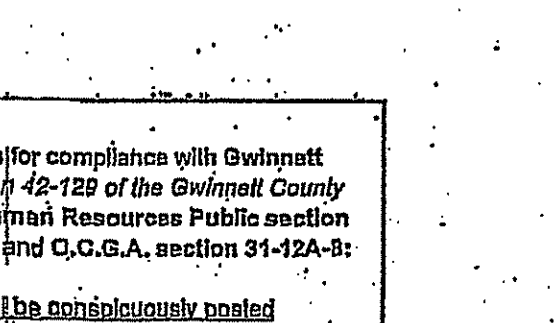


Figure 6. Treatment of cross runner and main runner at terminal ends using parallel (shadow) edge wall closure.

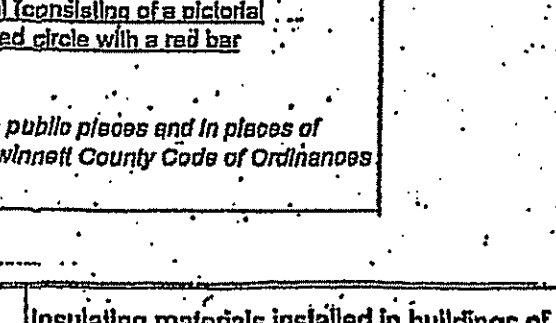


Figure 7. Treatment of cross runner and main runner at terminal ends using parallel (shadow) edge wall closure.

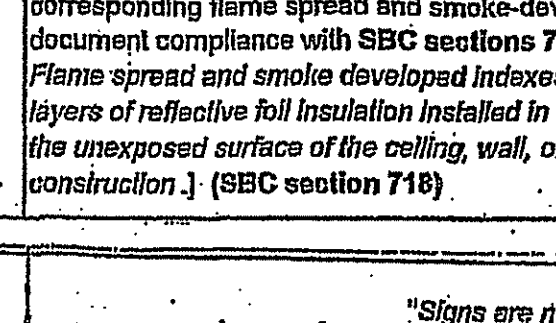


Figure 8. Treatment of cross runner and main runner at terminal ends using parallel (shadow) edge wall closure.

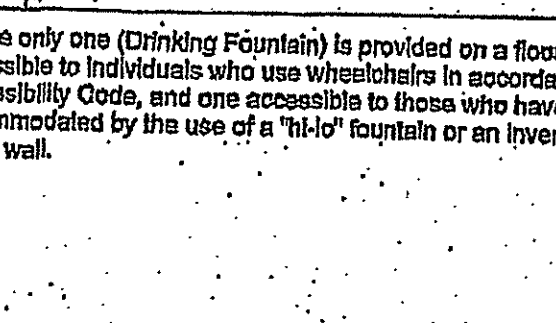


Figure 9. Treatment of cross runner and main runner at terminal ends using parallel (shadow) edge wall closure.

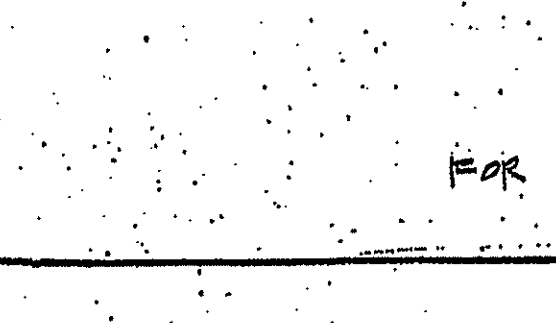


Figure 10. Treatment of cross runner and main runner at terminal ends using parallel (shadow) edge wall closure.

State the following (verbally) on architectural drawings for compliance with Gwinnett County Clean Indoor Air Ordinance (Article VI section 42-125 of the Gwinnett County Code of Ordinances), Rules of the Department of Health Resources Public Section 230-5-61-15 (For Georgia Smokefree Air Act of 2005), and O.C.G.A. section 31-12A-11:

A sign clearly stating that smoking is prohibited shall be conspicuously posted by the building owner, agent, operator, person in charge, or proprietor at each entrance or in a position clearly visible upon entering the building in accordance with Georgia Smokefree Air Act of 2005. Acceptable signs shall display either "NO SMOKING" or the International "no smoking" symbol localizing at a visible representation of a burning cigarette enclosed in a red circle

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120-3-20-25 Entrances.
(1) Minimum Number. Entrances required to be accessible by rule 120-3-20-25 shall be determined by the number of entrances to the building or facility. If the building or facility has only one entrance, that entrance shall be accessible. If the building or facility has more than one entrance, at least one entrance shall be accessible.

(2) Service Entrances. A service entrance shall not be the sole accessible entrance to a building or facility. The accessible entrance shall be a separate entrance to the building or facility.

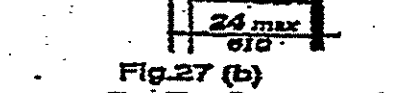
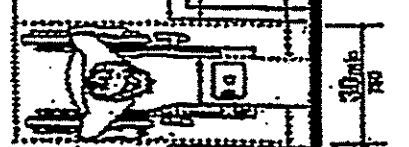
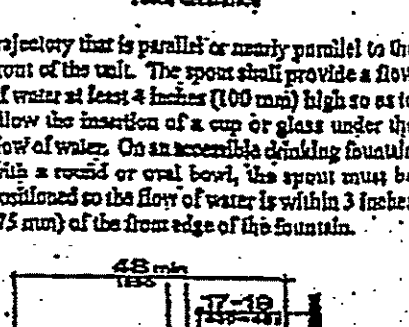
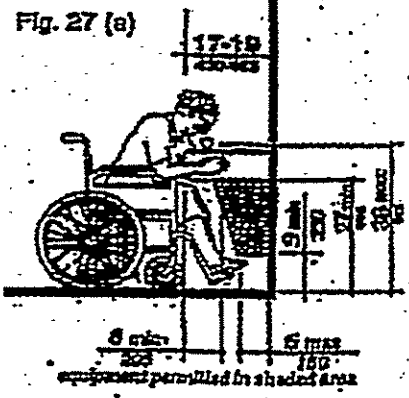
120-3-20-26 Drinking Fountains and Water Coolers.

(1) Minimum Number. Drinking fountains or water coolers required to be accessible by rule 120-3-20-26 shall comply with rule 120-3-20-26.

(2) Space Height. Space shall be no higher than 34 inches (889 mm), measured from the floor or ground surface to the spout (see Fig. 27).

Notes: Two drinking fountains, mounted side by side or on a single post, are usable by people with disabilities and people who find it difficult to bend over.

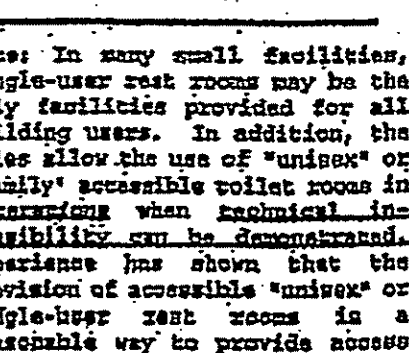
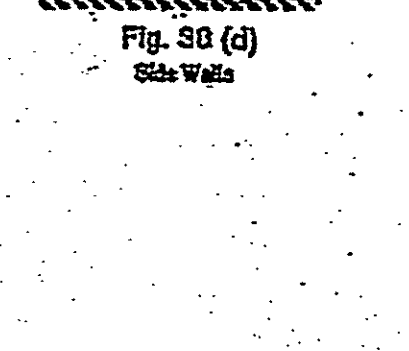
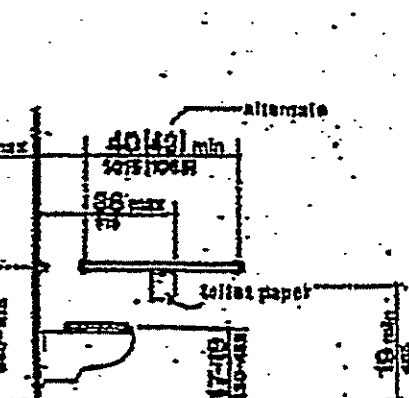
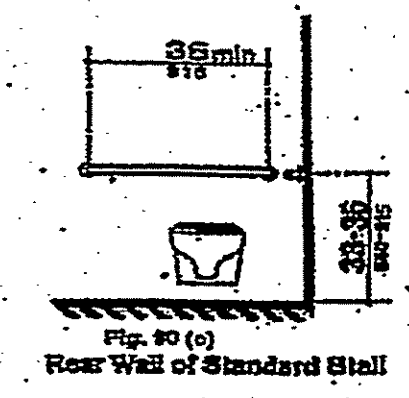
(3) Spout Location. The spout of drinking fountains and water coolers shall be at the front of the unit and shall direct the water flow in a



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(5) Doors. Toilet stall doors, including door hardware, shall comply with rule 120-3-20-24. If a toilet stall door is a swinging door, the door shall be opened by a single motion and shall be opened by a single motion and shall be opened by a single motion.

Notes: To make it easier for wheelchair users to open toilet stall doors, doors can be provided with closers, spring hinges, or a pull bar mounted on the inside surface of the door near the hinge side.

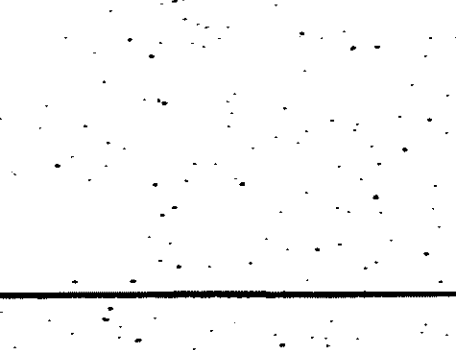
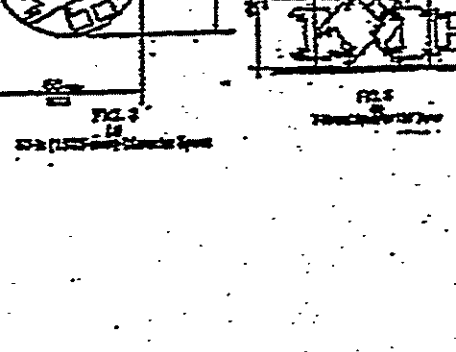
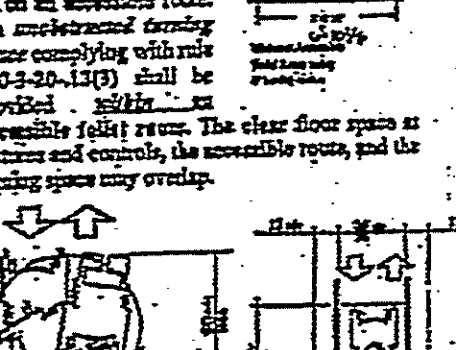


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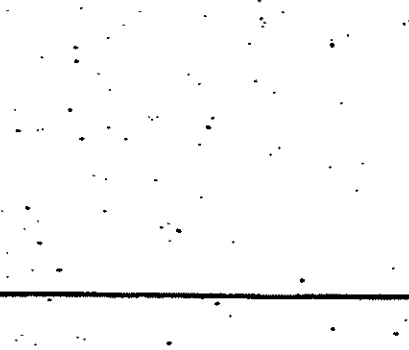
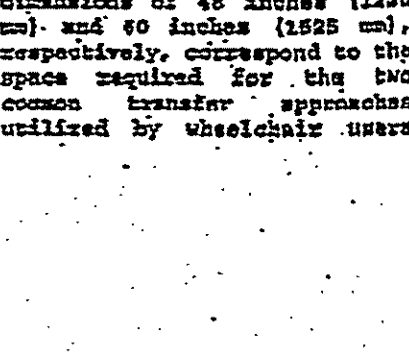
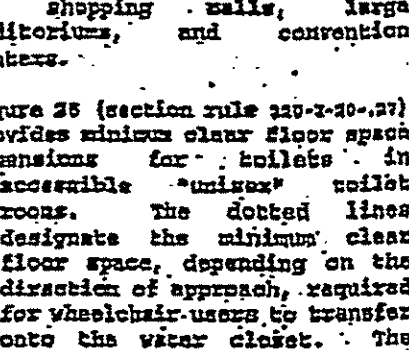
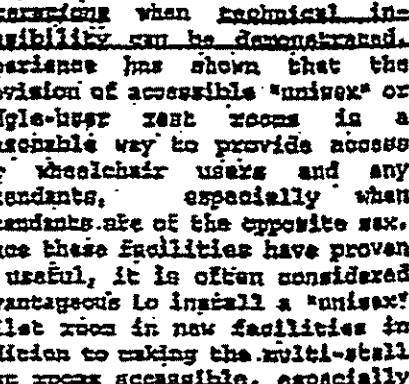
120-3-20-28 Toilet Rooms.
(1) Minimum Number. Toilet rooms required to be accessible by rule 120-3-20-28 shall comply with rule 120-3-20-28.

(2) Doors. All doors to accessible toilet rooms shall comply with rule 120-3-20-24. Doors shall be opened by a single motion and shall be opened by a single motion.

(3) Clear Floor Space. The accessible floor space and clear floor space shall comply with rule 120-3-20-24. The clear floor space shall be 30 inches by 48 inches minimum.



Notes: In many small facilities, single-user rest rooms may be the only facilities provided for all building users. In addition, the rules allow the use of "unisex" or "family" accessible toilet rooms in situations when architectural feasibility can be demonstrated. Equivalence has shown that the provision of accessible "unisex" or "single-user rest rooms" in a reasonable way to provide access for wheelchair users and any attendant, especially when attendants are at the opposite sex. Since these facilities have proven to be useful, it is often considered advantageous to install a "unisex" toilet room in new facilities in addition to making the multi-stall rest rooms accessible, especially in shopping malls, large educational, and convention centers.



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mounting location on the left side of the tank (facing the tank). Cante can be obtained by special order with controls mounted on the right side. If administrative authorities require flush controls for flush valves to be located in a position where conflicts with the location of the water grab bar, then that bar may be split or shifted toward the right side of the toilet area.

(4) Dispensers. Toilet paper dispensers shall be installed within reach, as shown in Fig. 29(b). Dispensers that control delivery, or that do not permit continuous paper flow, shall not be used.

120-3-20-28 Toilet Stalls.

(1) Location. Accessible toilet stalls shall be on an accessible route and shall meet the requirements of rule 120-3-20-26.

(2) Water Closets. Water closets in accessible stalls shall comply with rule 120-3-20-27.

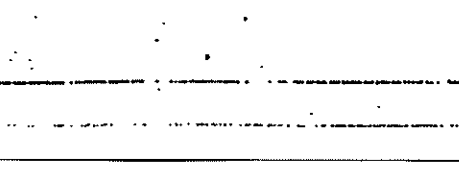
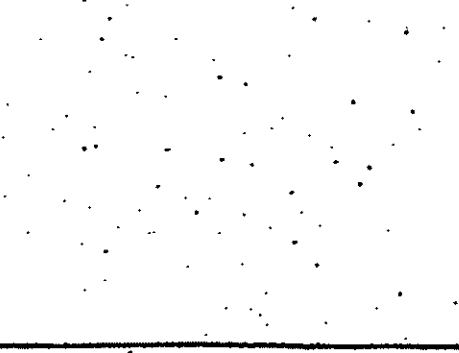
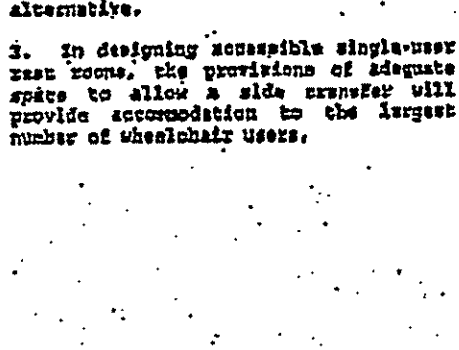
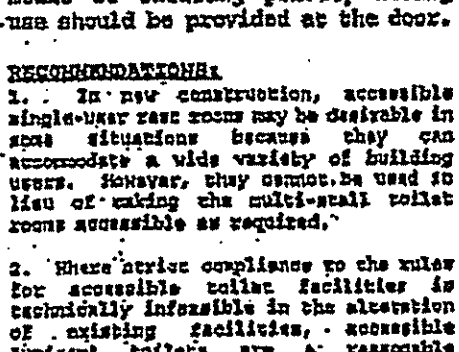
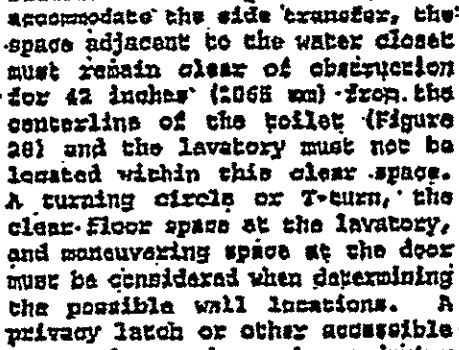
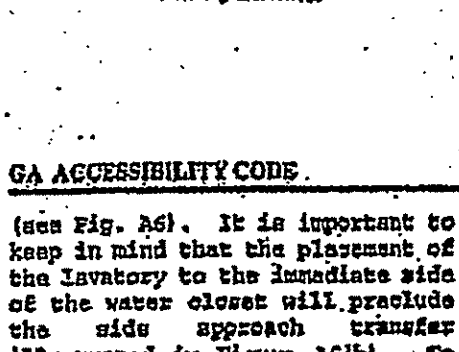
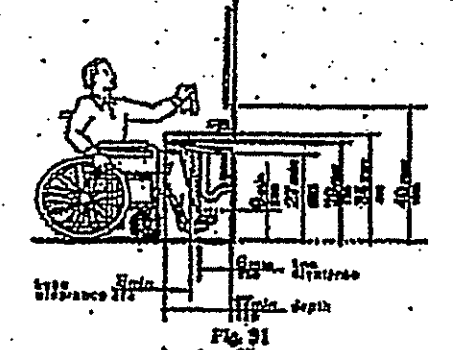
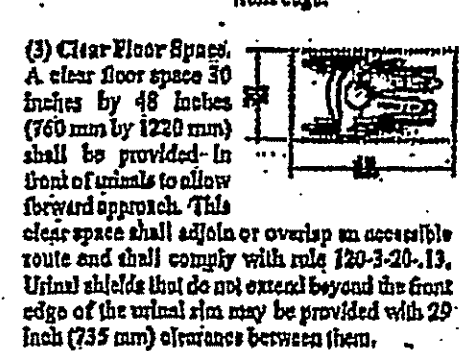
(3) Size and Arrangement. The size and arrangement of the standard toilet stall shall comply with Fig. 30(a). Standard toilet stalls with a minimum depth of 56 inches (1420 mm) shall have wall-mounted water closets. If the depth of a standard toilet stall is less than 56 inches (1420 mm), then a floor-mounted water closet may be used. Arrangements shown for standard toilet stalls may be reversed to allow either a left- or right-hand approach. Additional stalls shall be provided in conformance with rule 120-3-20-31(c).

EXCEPTION: In instances of alteration work, where provision of a standard stall (Fig. 30(a)) is technically infeasible or where plumbing code requirements prevent installing toilets in stalls, a smaller stall (Fig. 30(b)) may be provided in lieu of the standard stall.

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120-3-20-30 Urinals.
(1) General. Any toilet or bathing room provided with urinals must have at least one that complies with rule 120-3-20-30.

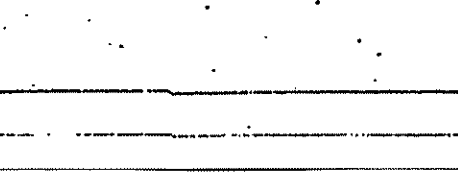
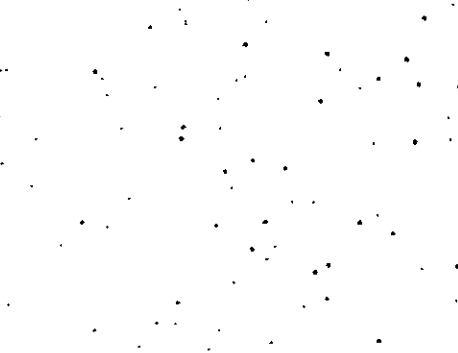
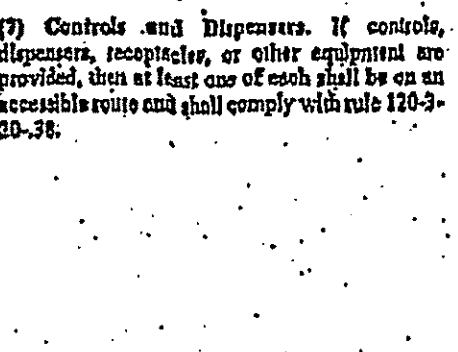
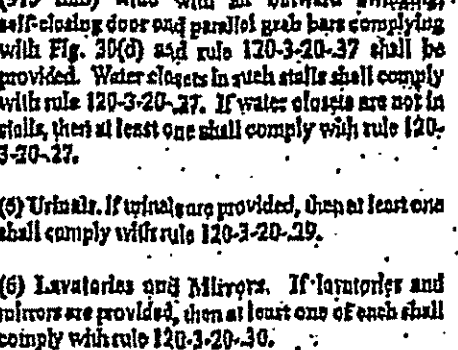
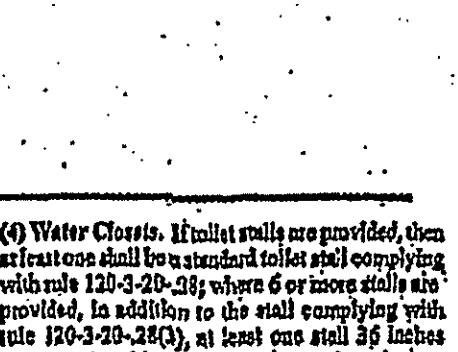
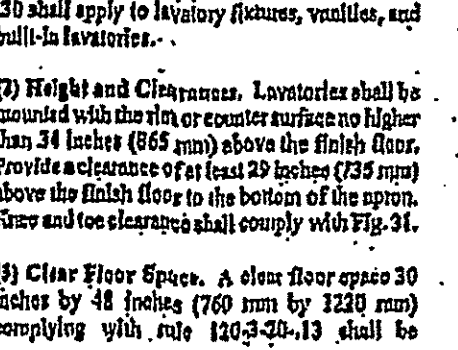
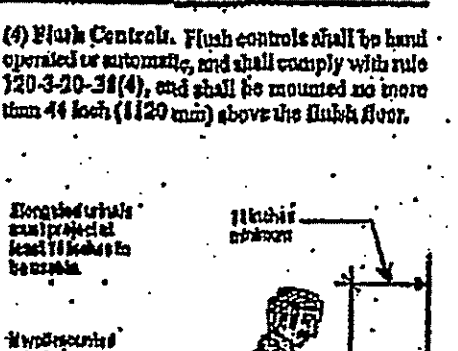
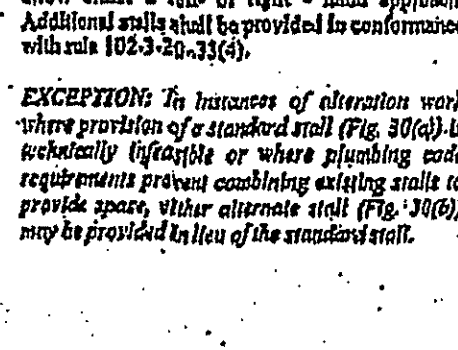
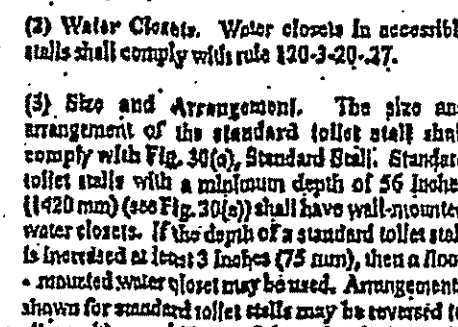
(2) Height. Urinals shall be installed with a maximum height of 48 inches (1219 mm) above the finished floor and extend at least 14 inches from the back wall to the urinal's front edge.



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(4) Flush Controls. Flush controls shall be hand-operated or automatic and shall comply with rule 120-3-20-34(a), and shall be mounted no more than 44 inches (1118 mm) above the finished floor.

(5) Height. Urinals shall be installed with a maximum height of 48 inches (1219 mm) above the finished floor and extend at least 14 inches from the back wall to the urinal's front edge.

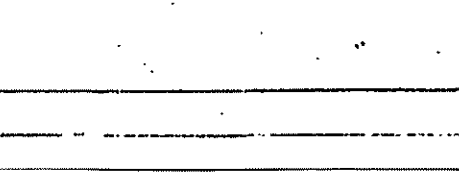
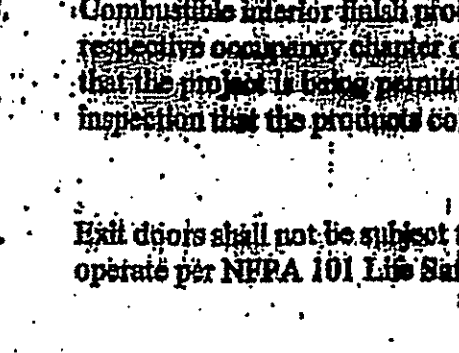
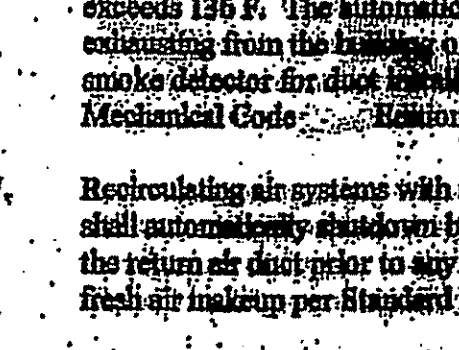
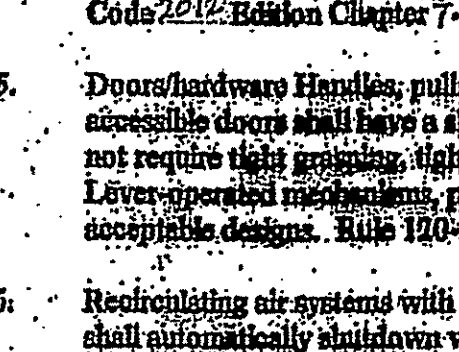
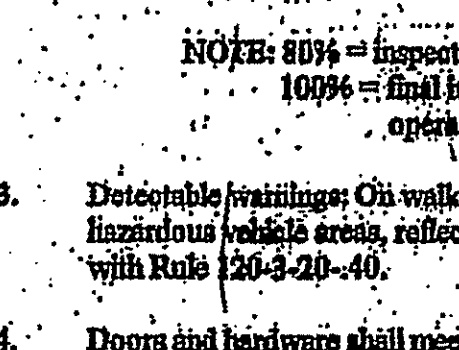
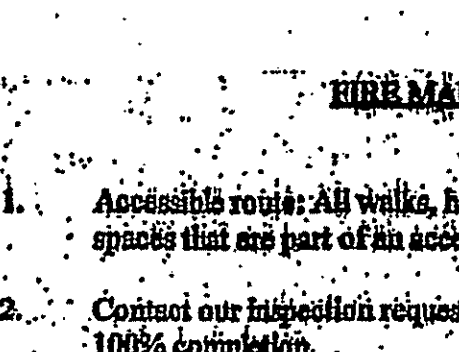
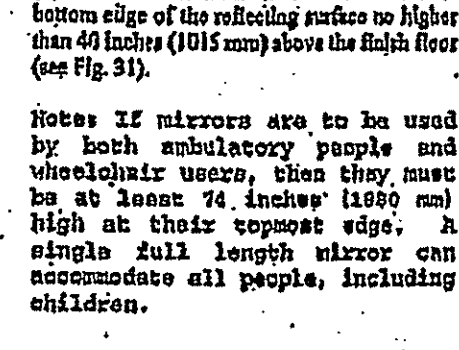
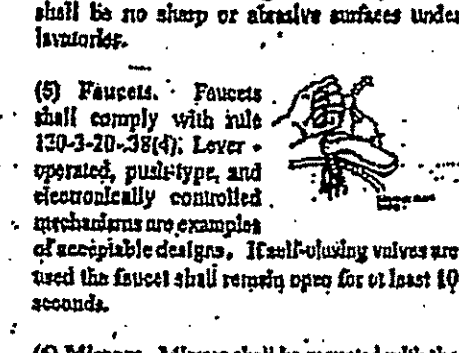
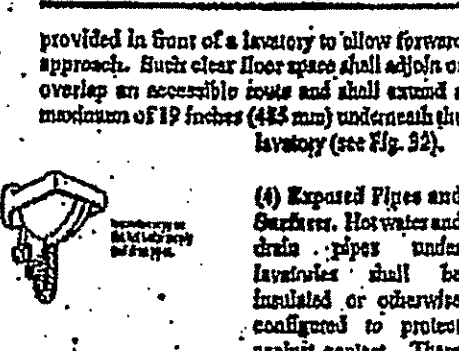
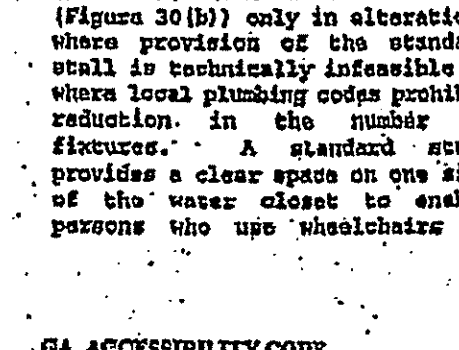


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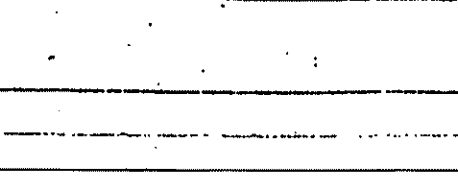
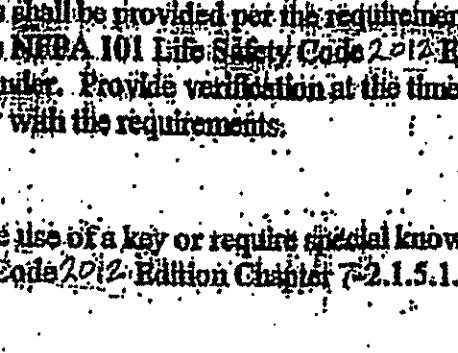
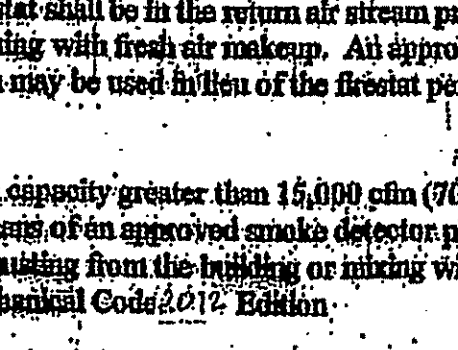
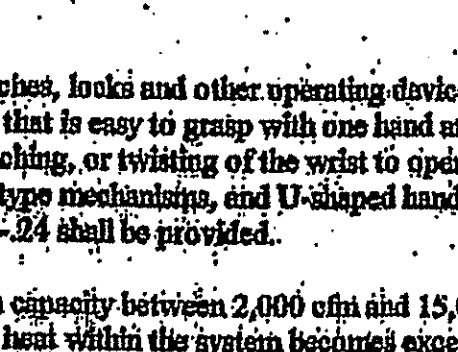
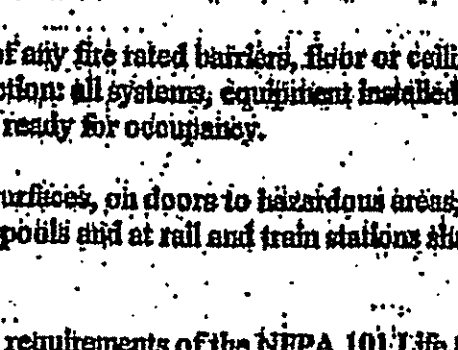
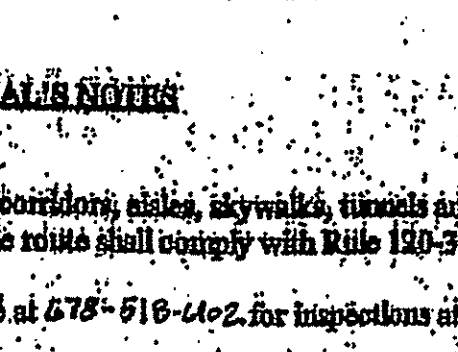
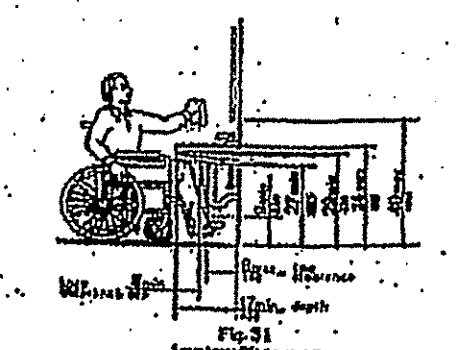
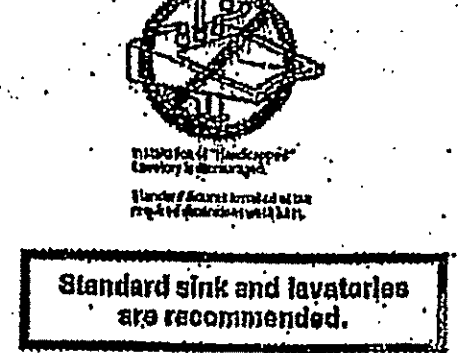
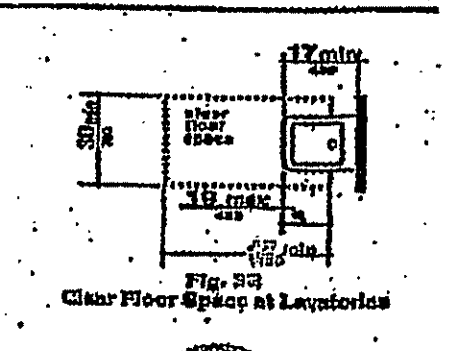
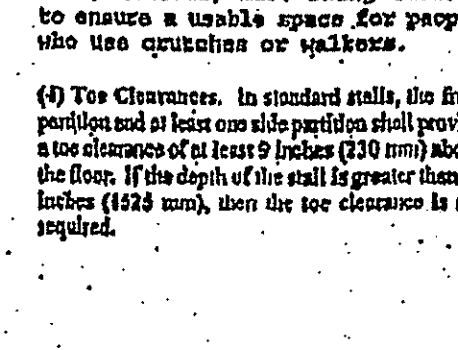


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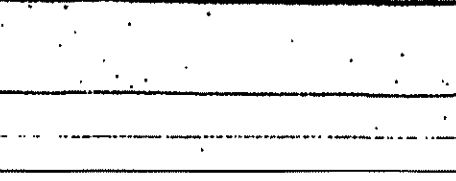
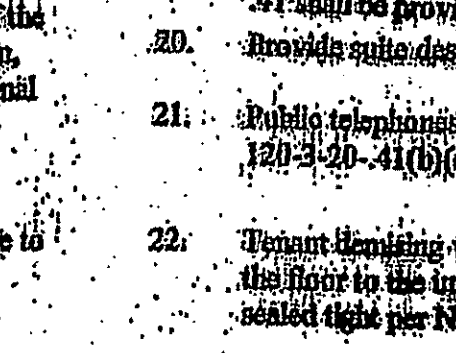
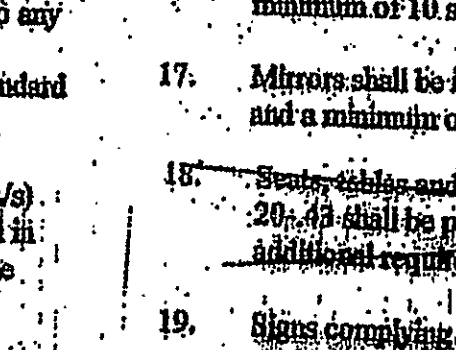
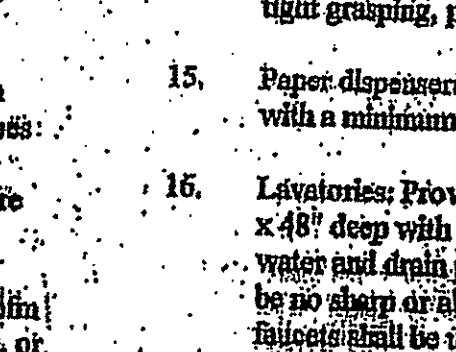
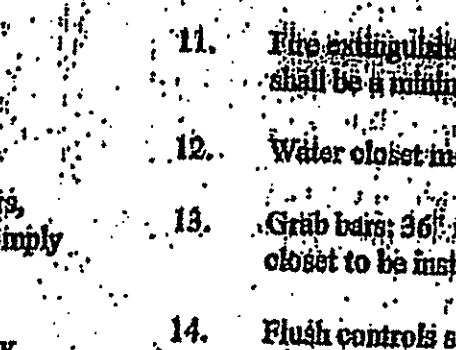
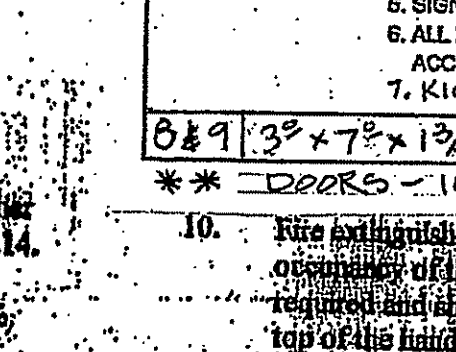
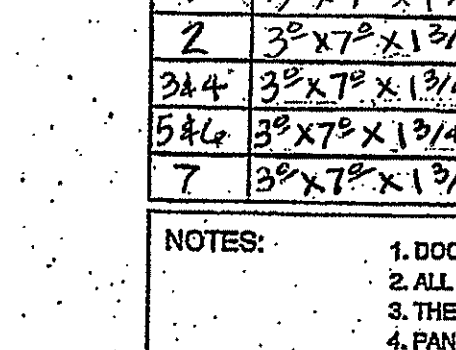
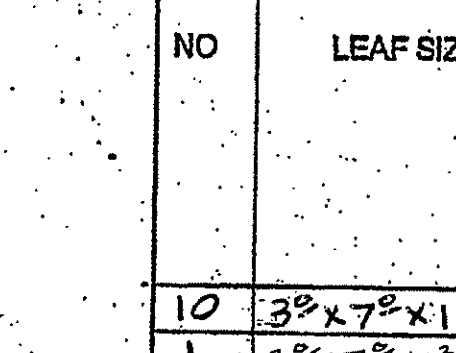
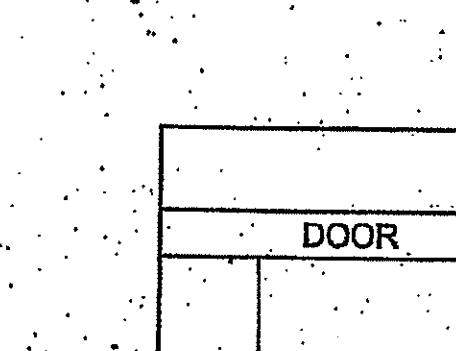
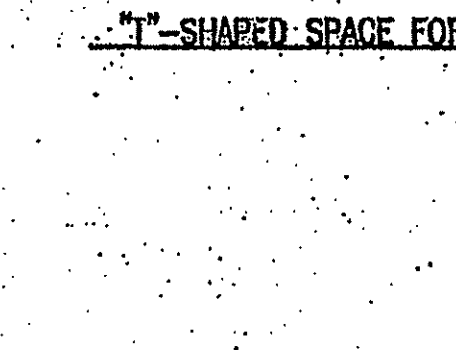


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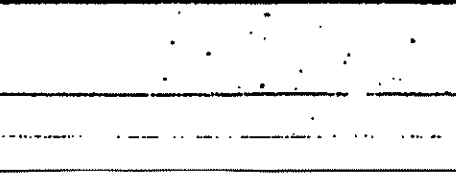
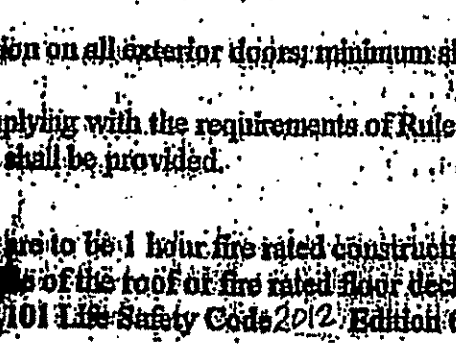
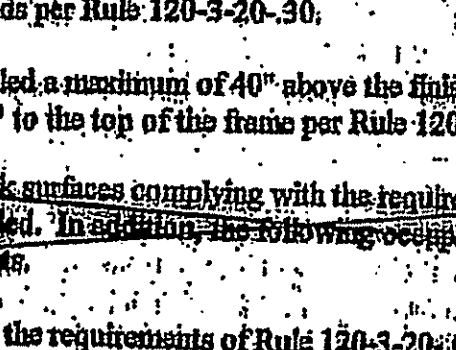
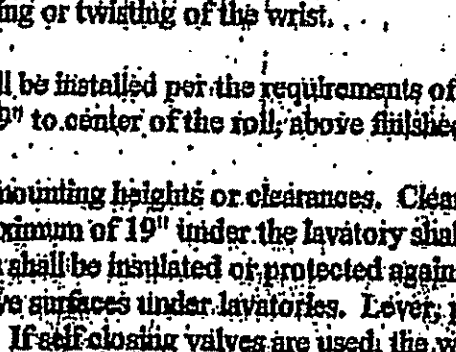
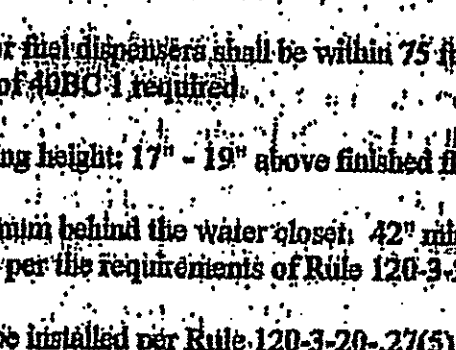
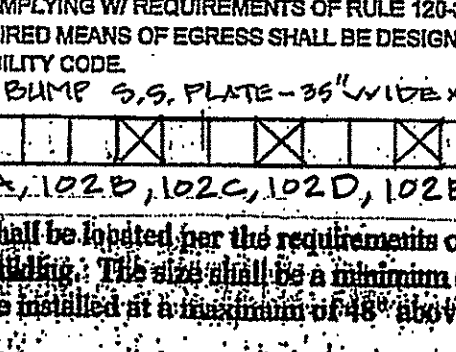
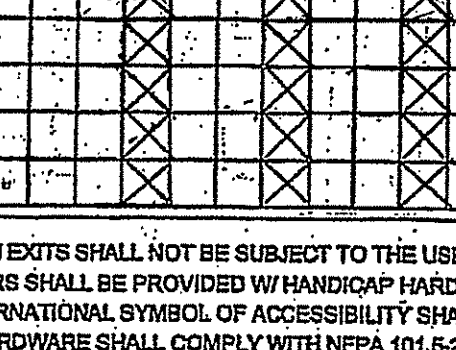
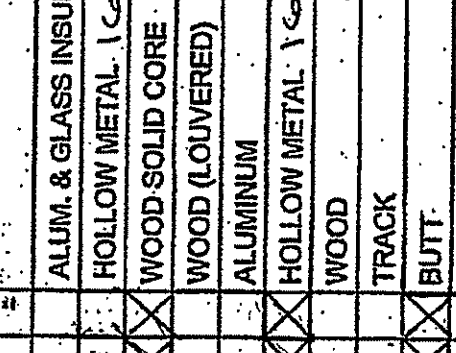
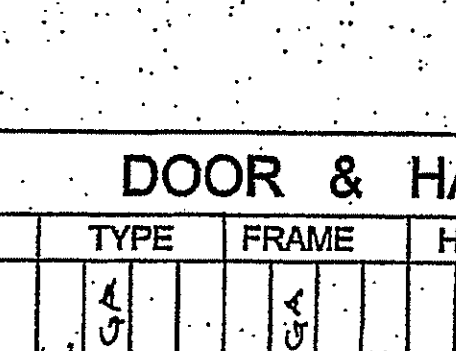
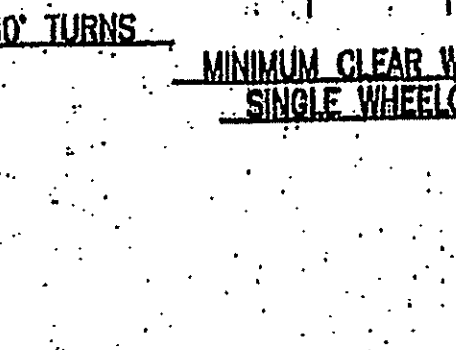


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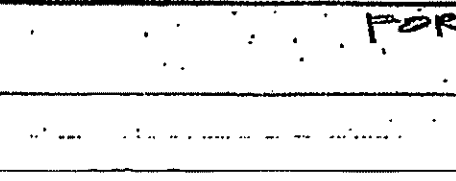
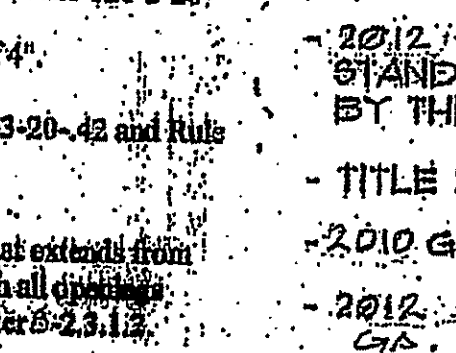
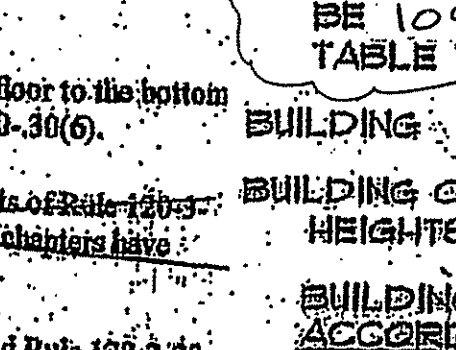
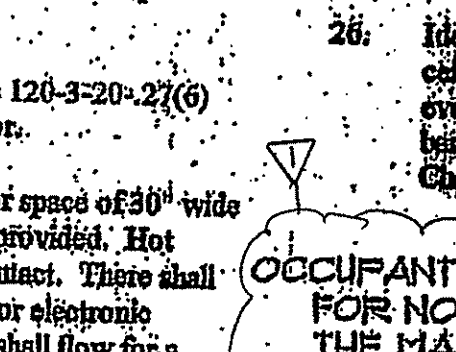
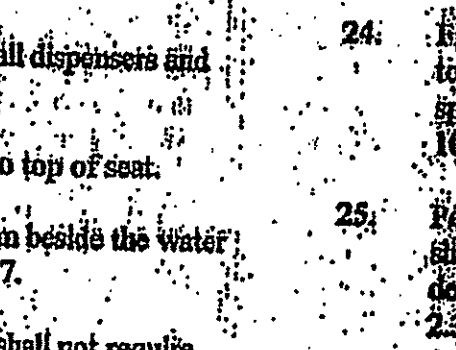
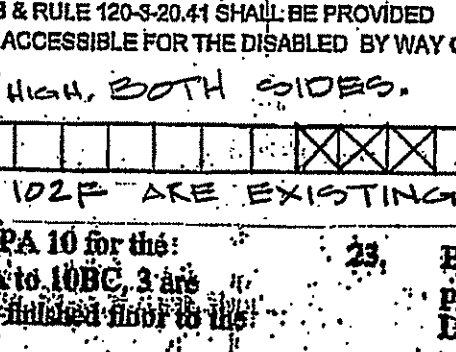
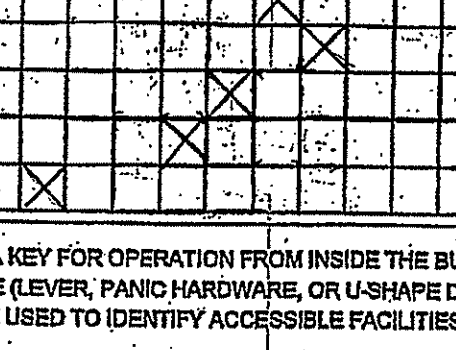
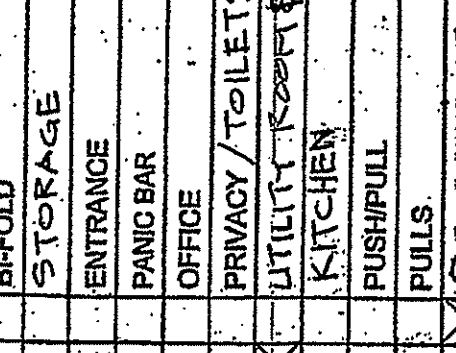
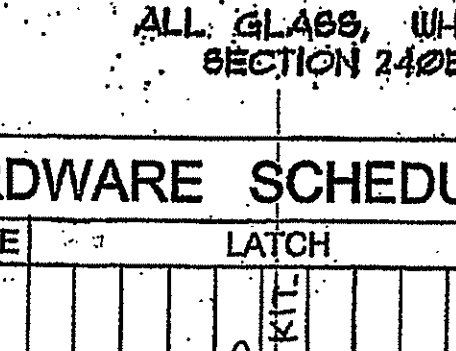
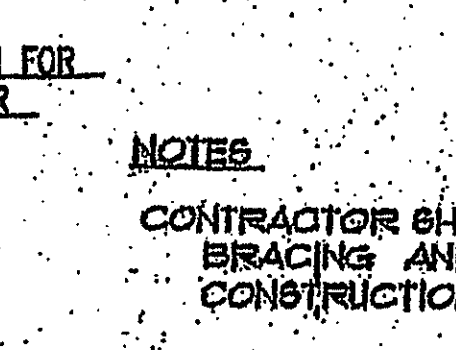


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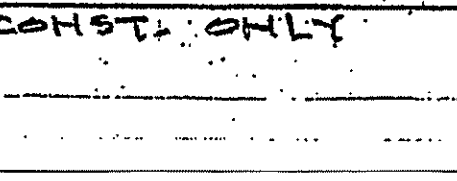
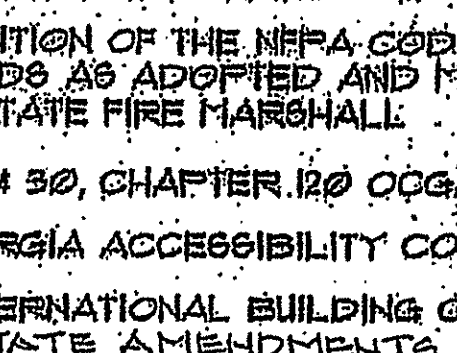
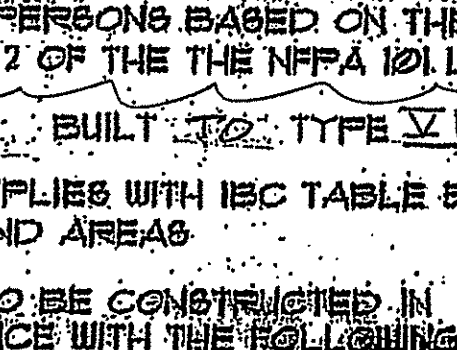
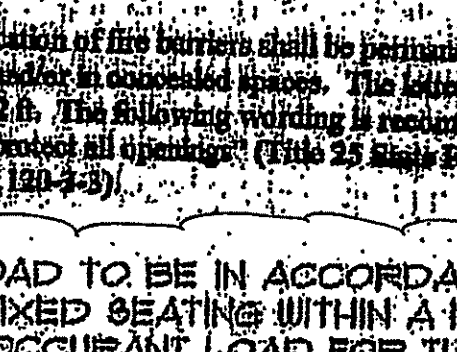
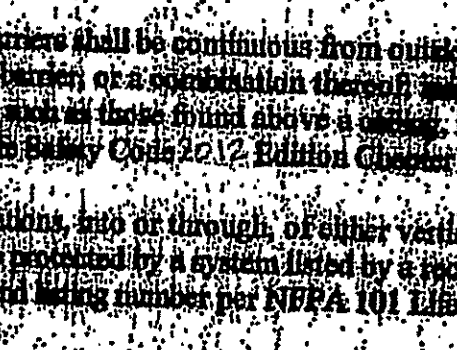
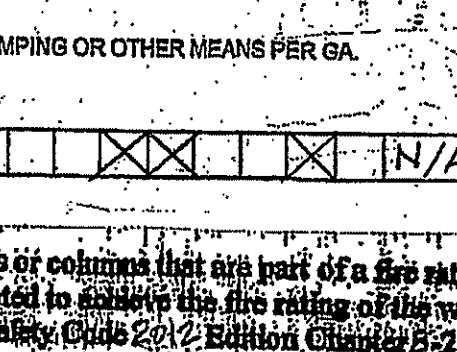
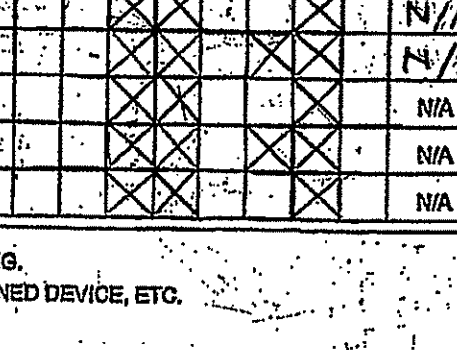
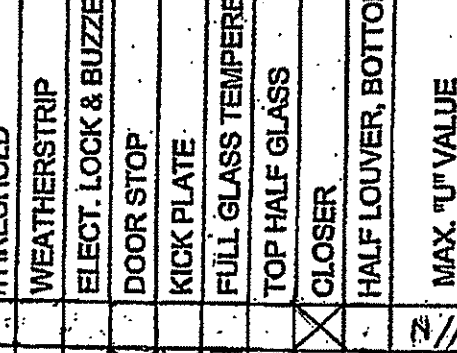
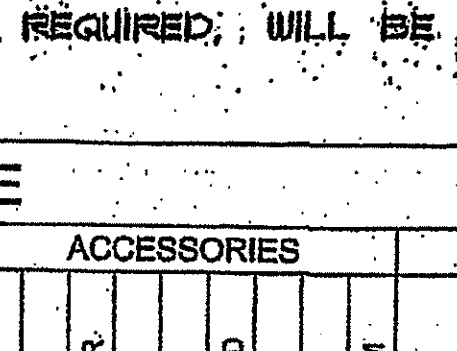
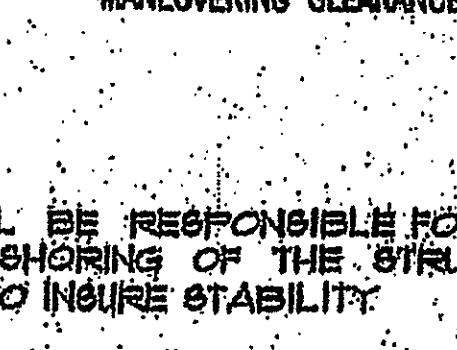


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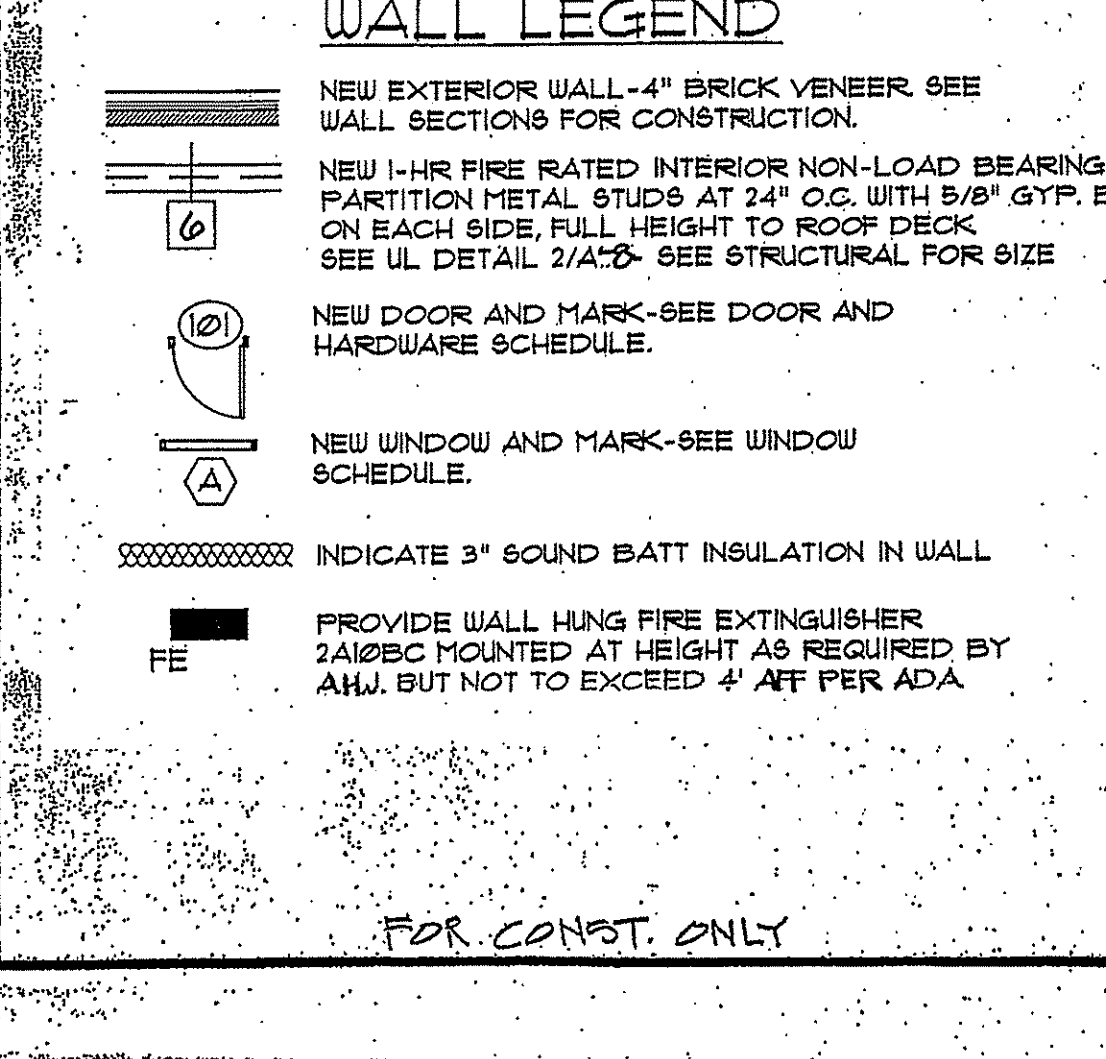
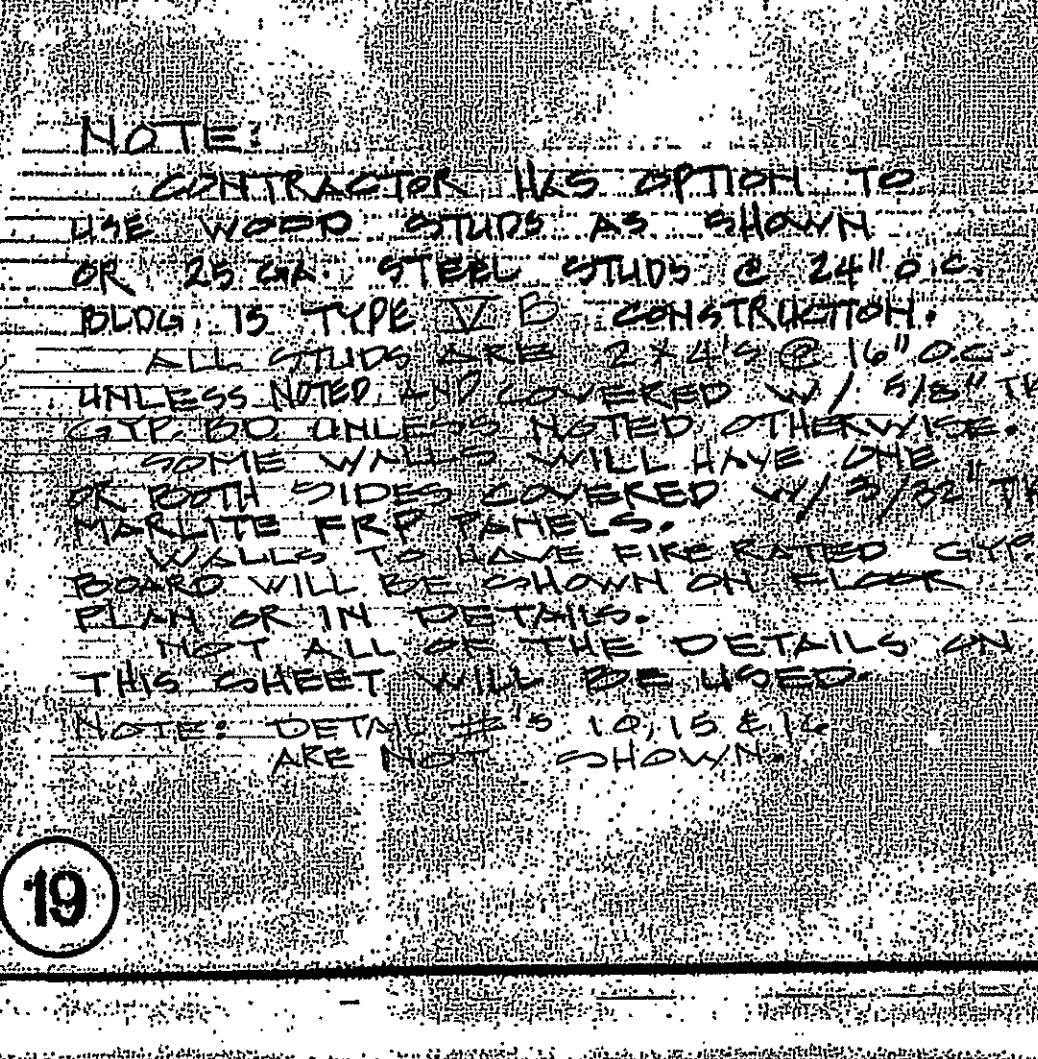
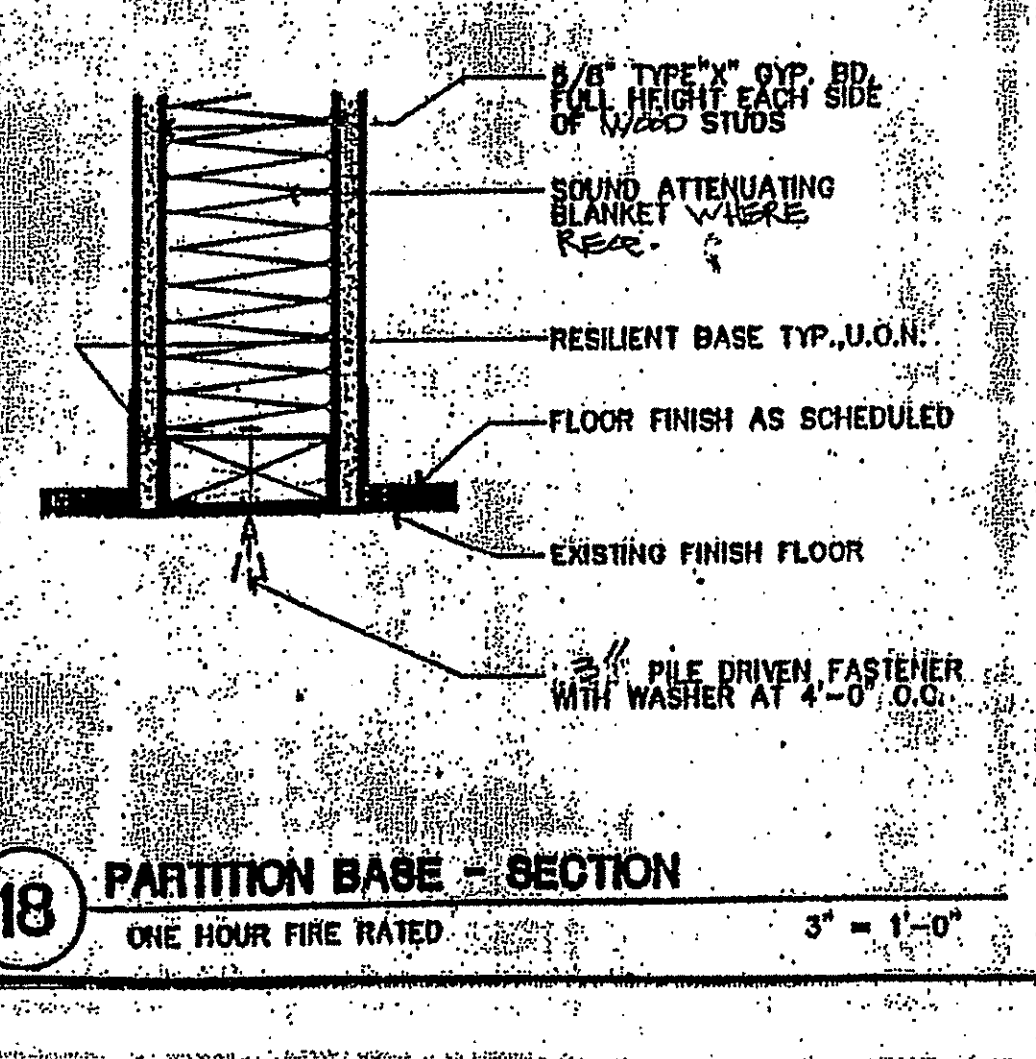
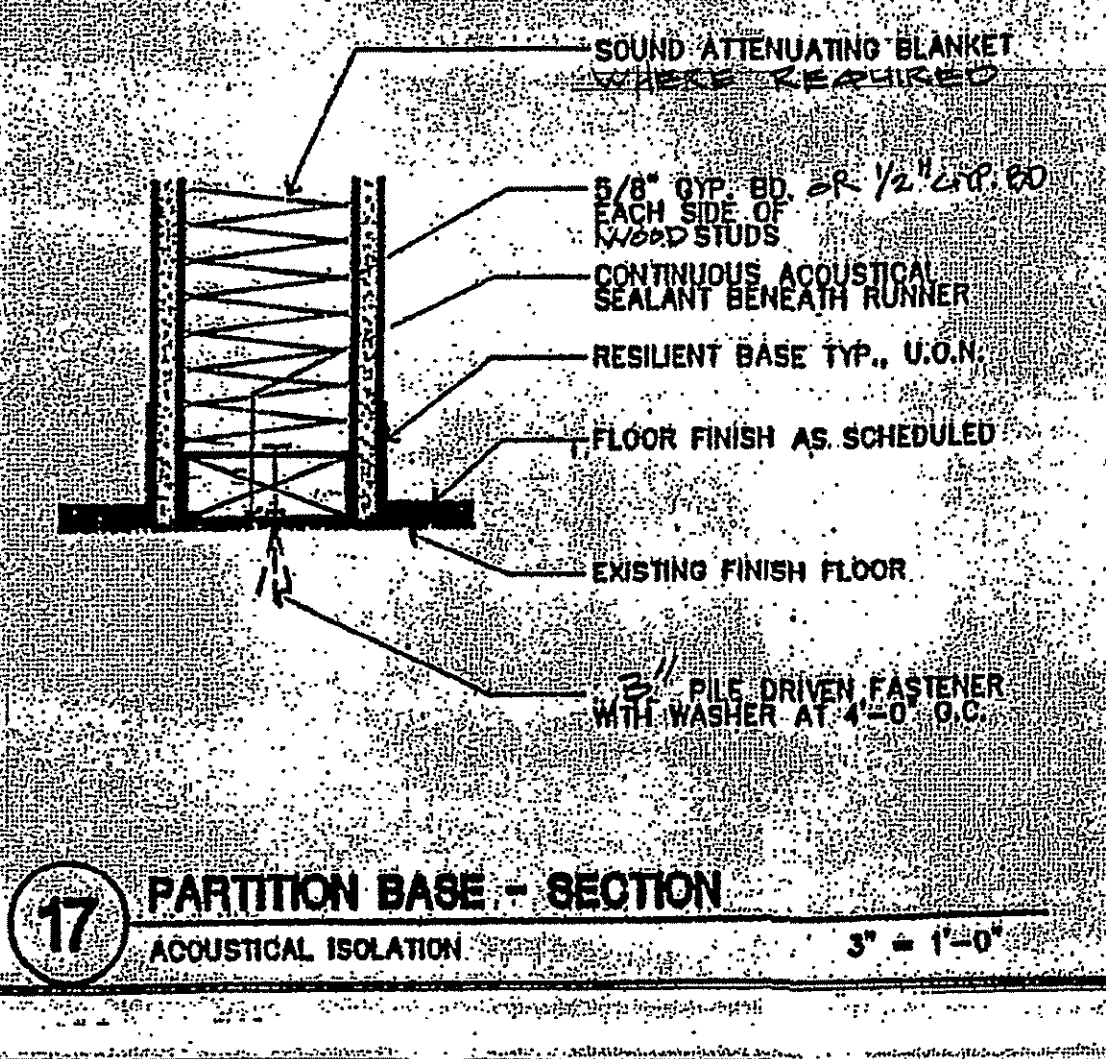
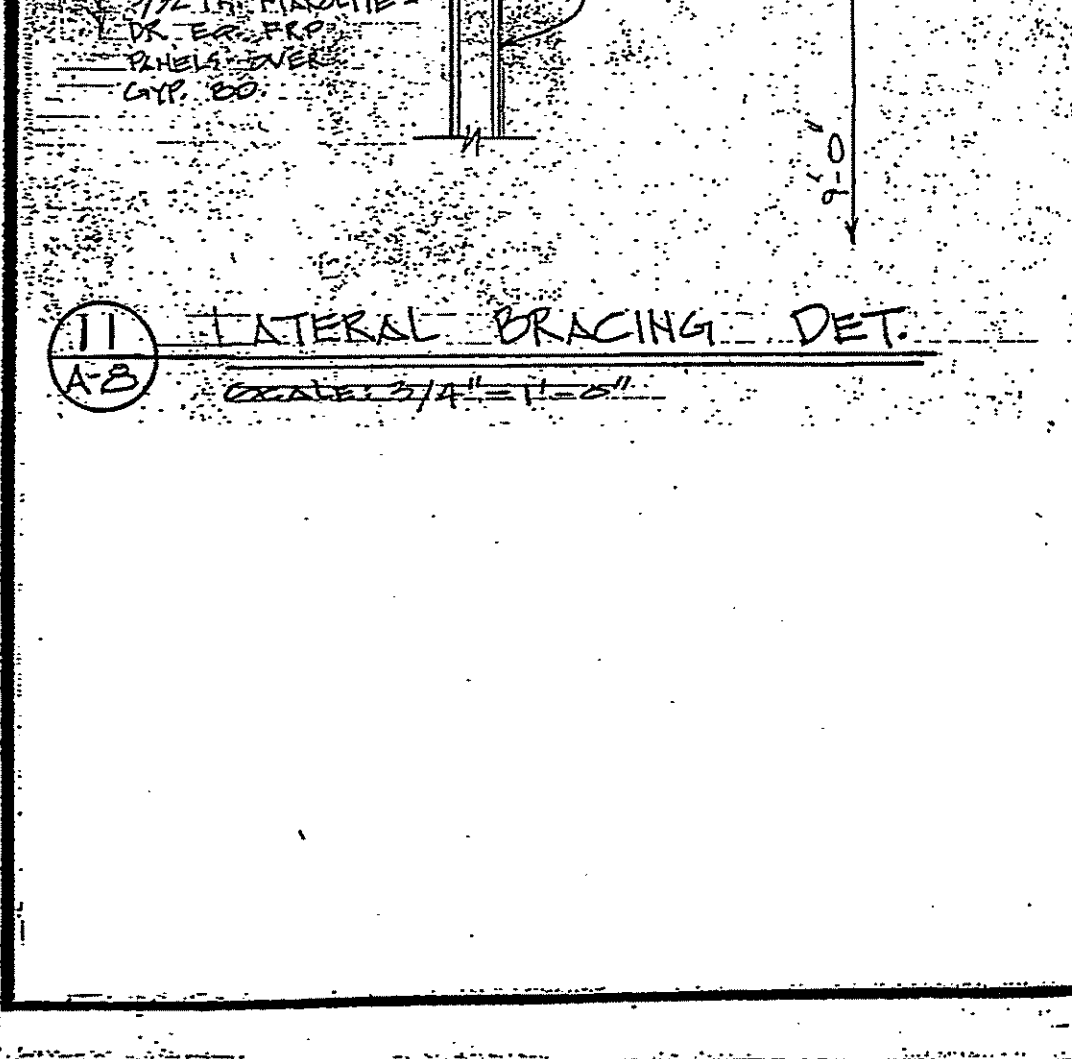
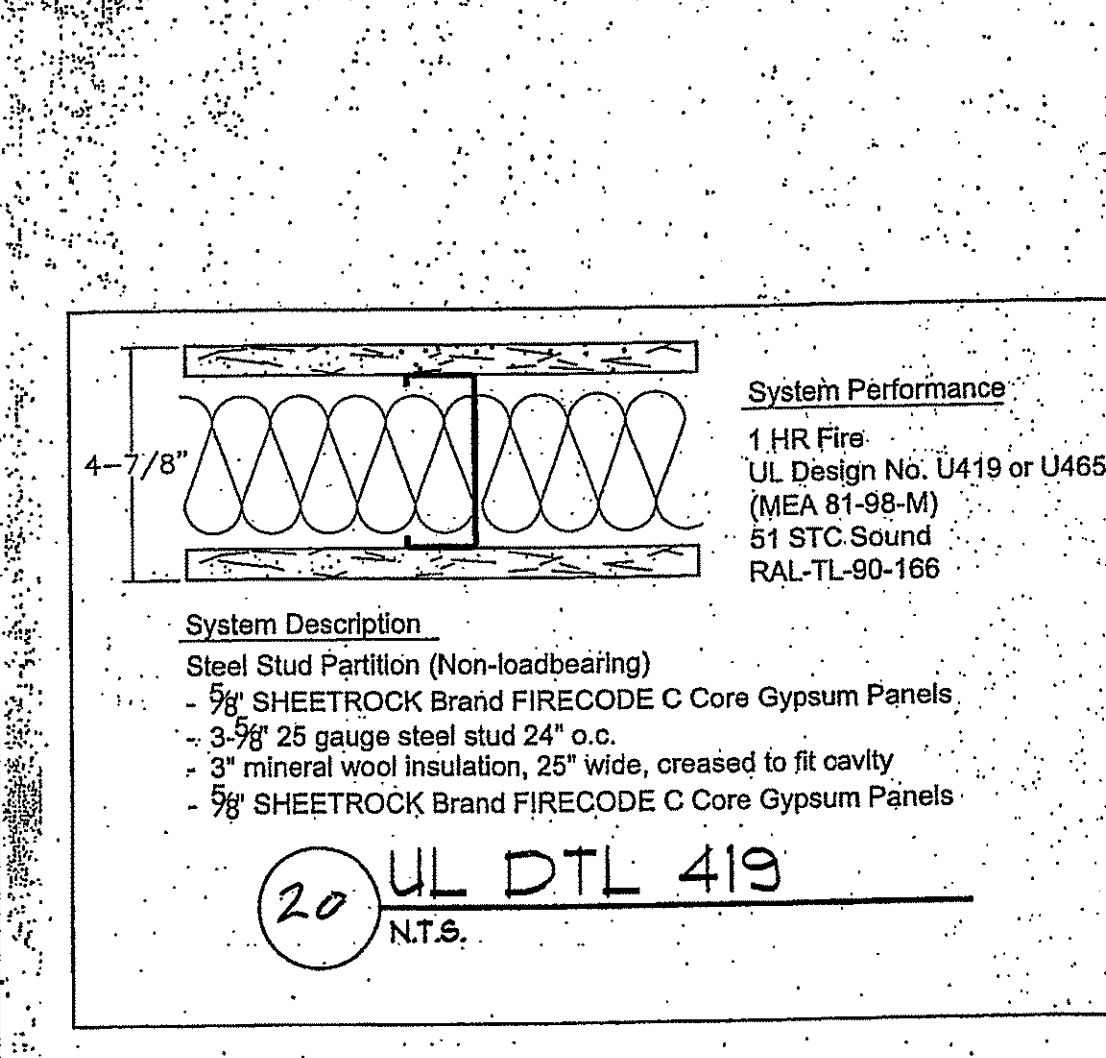
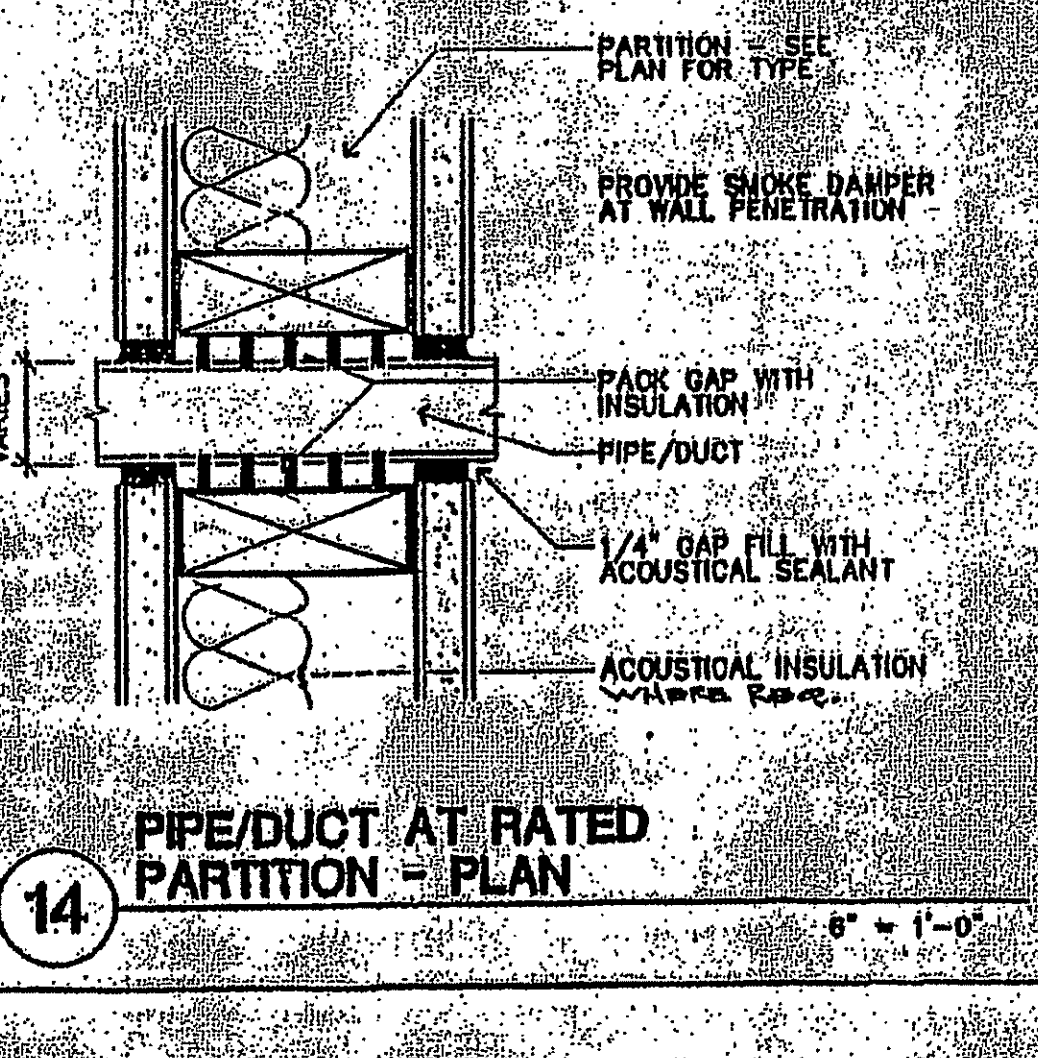
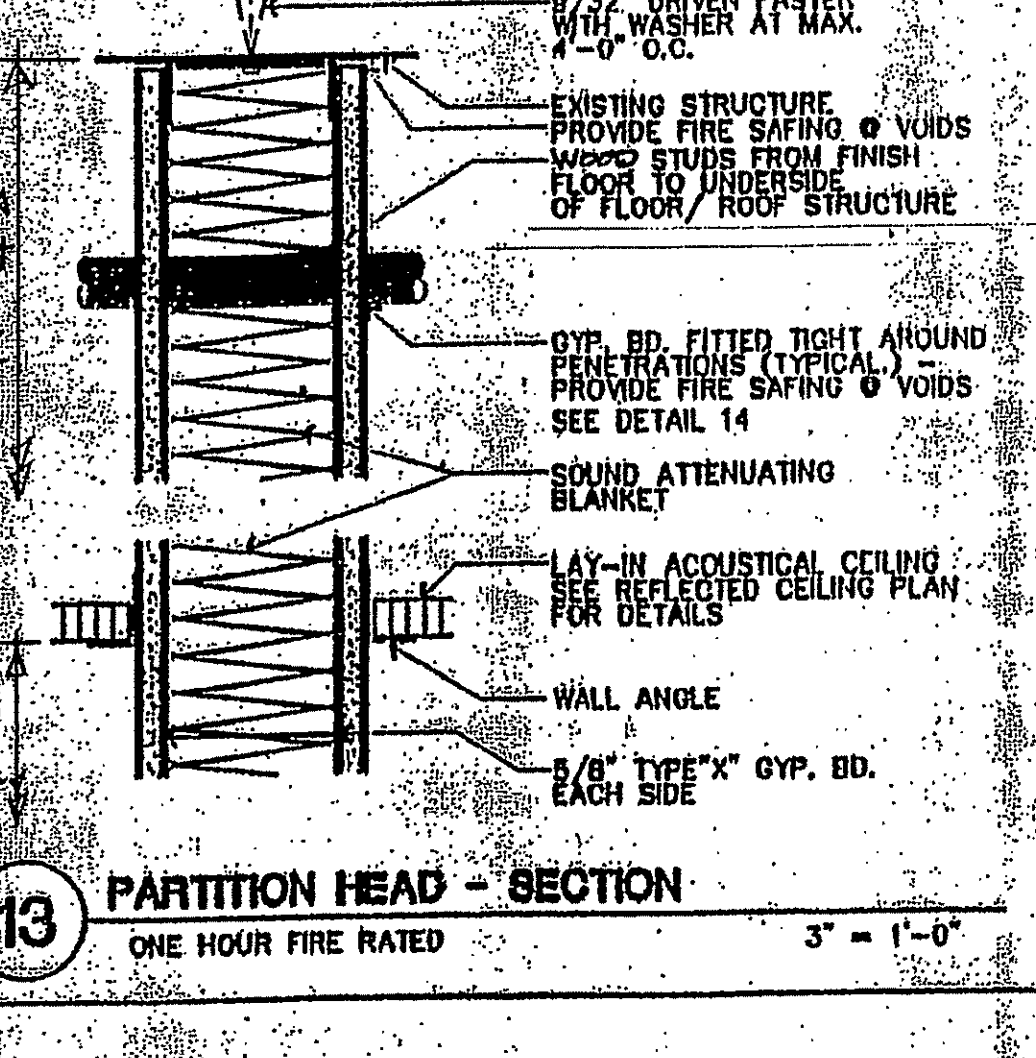
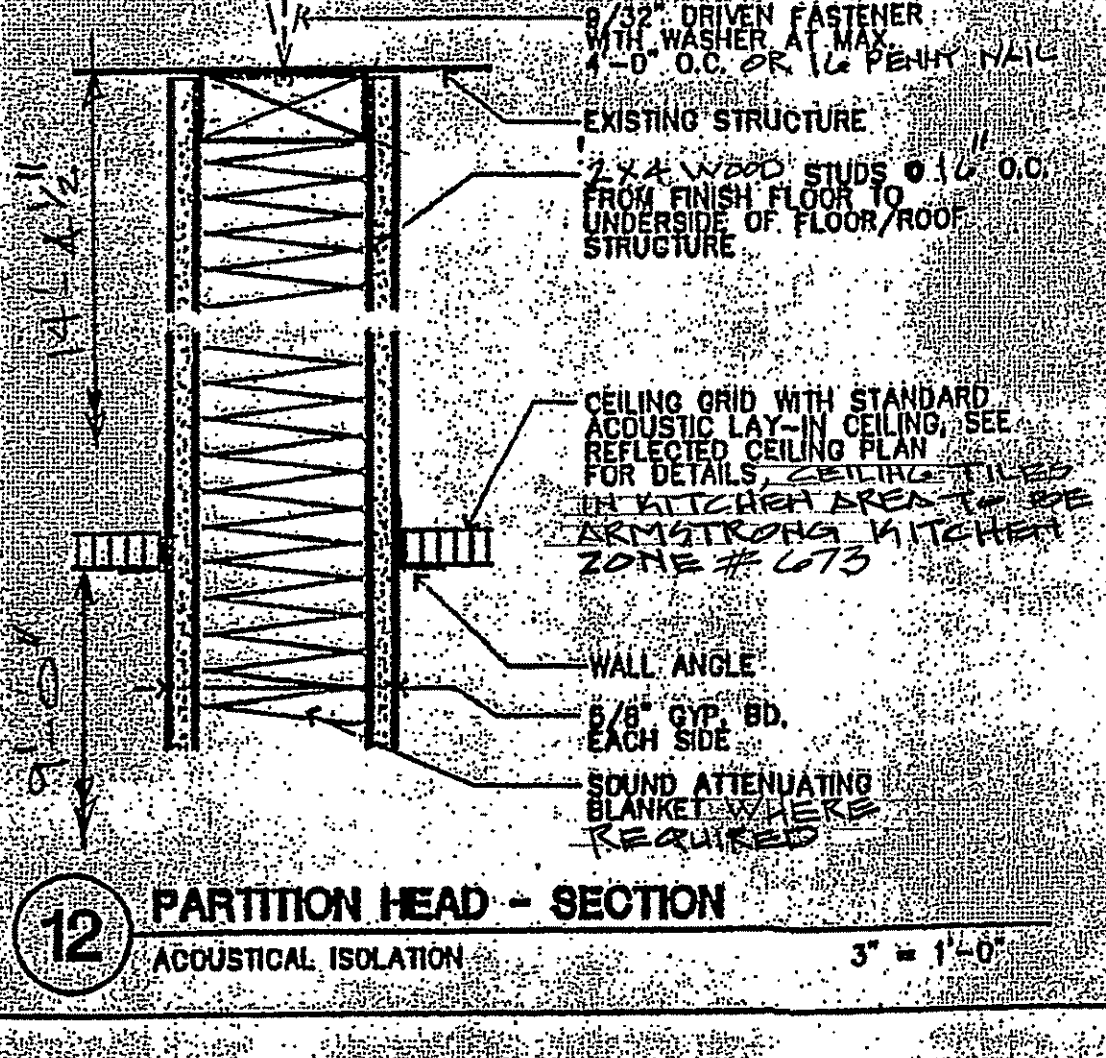
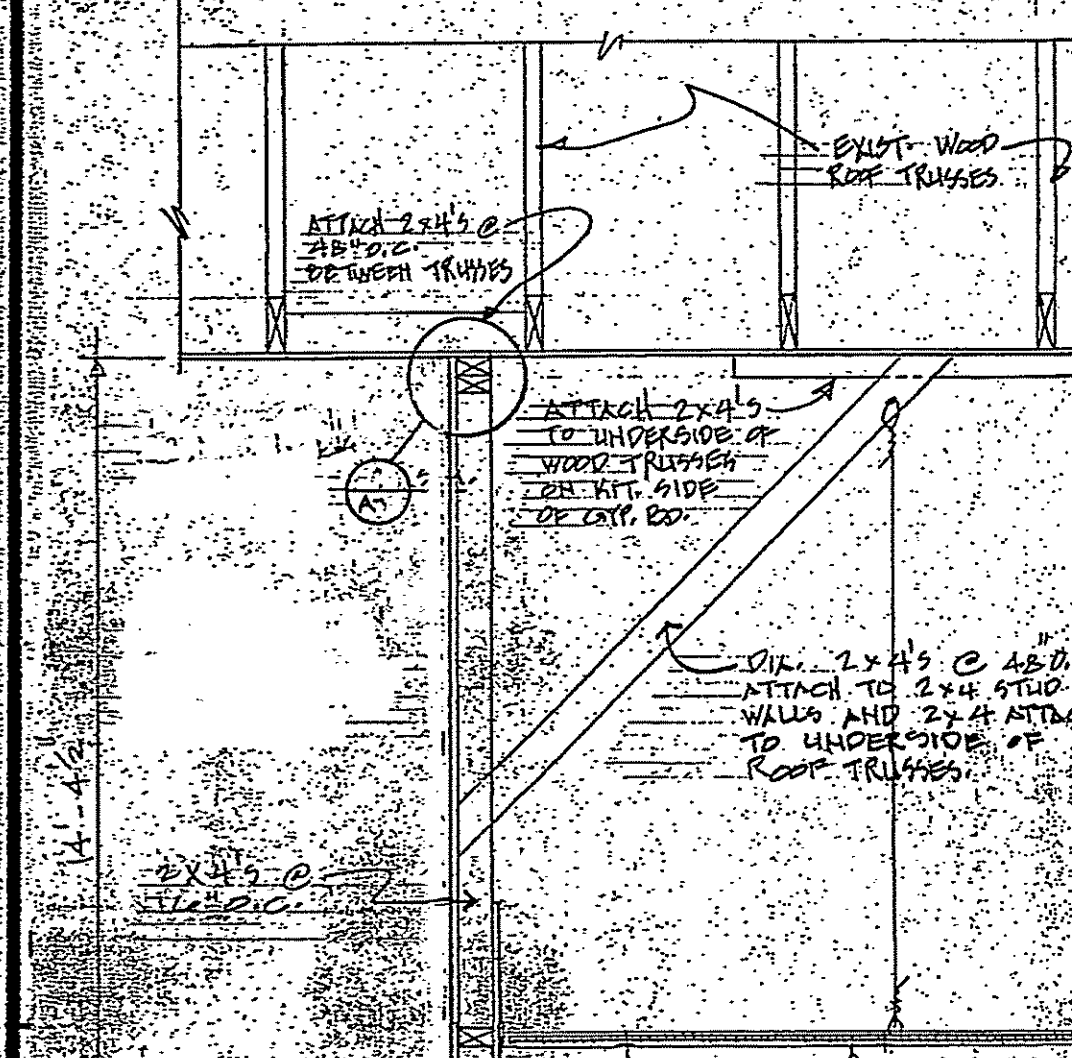
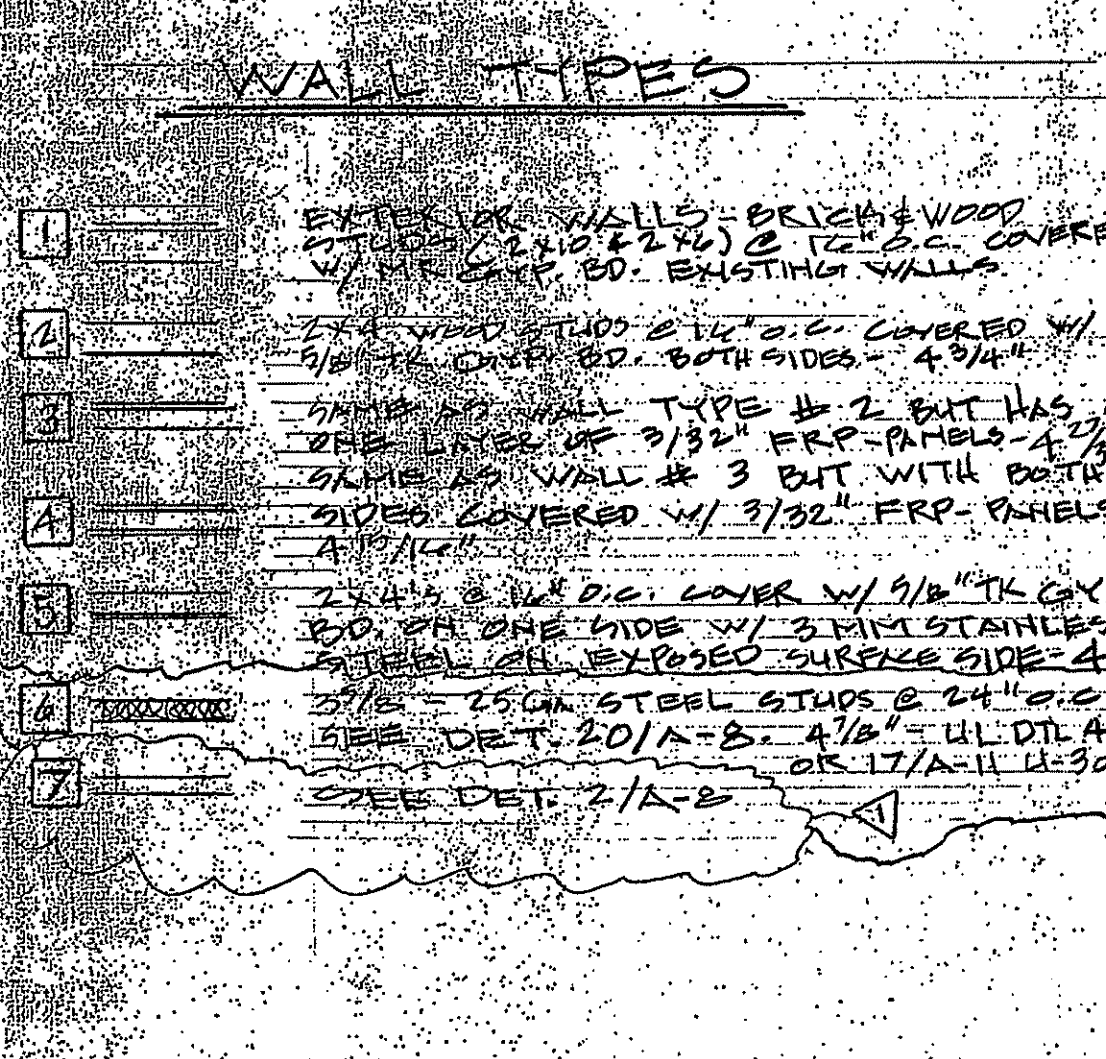
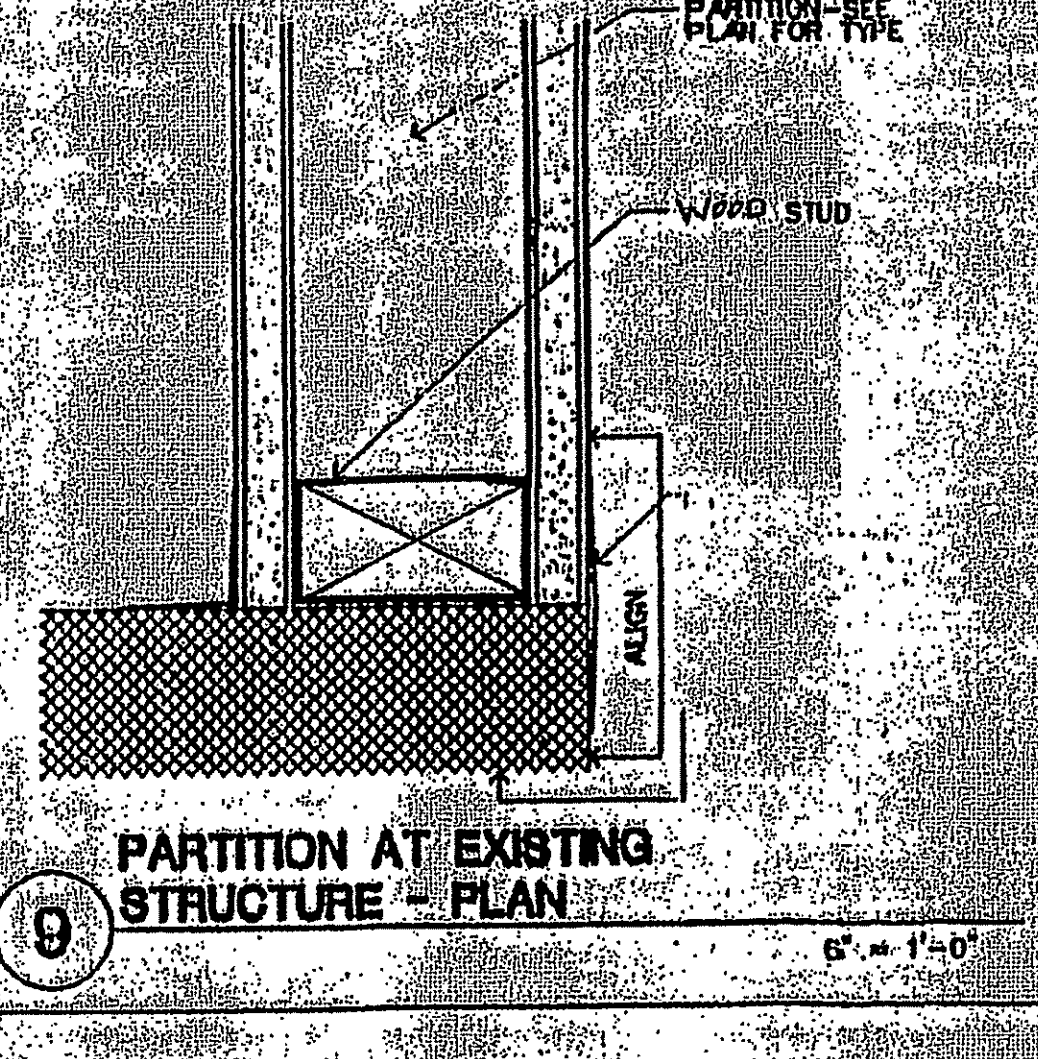
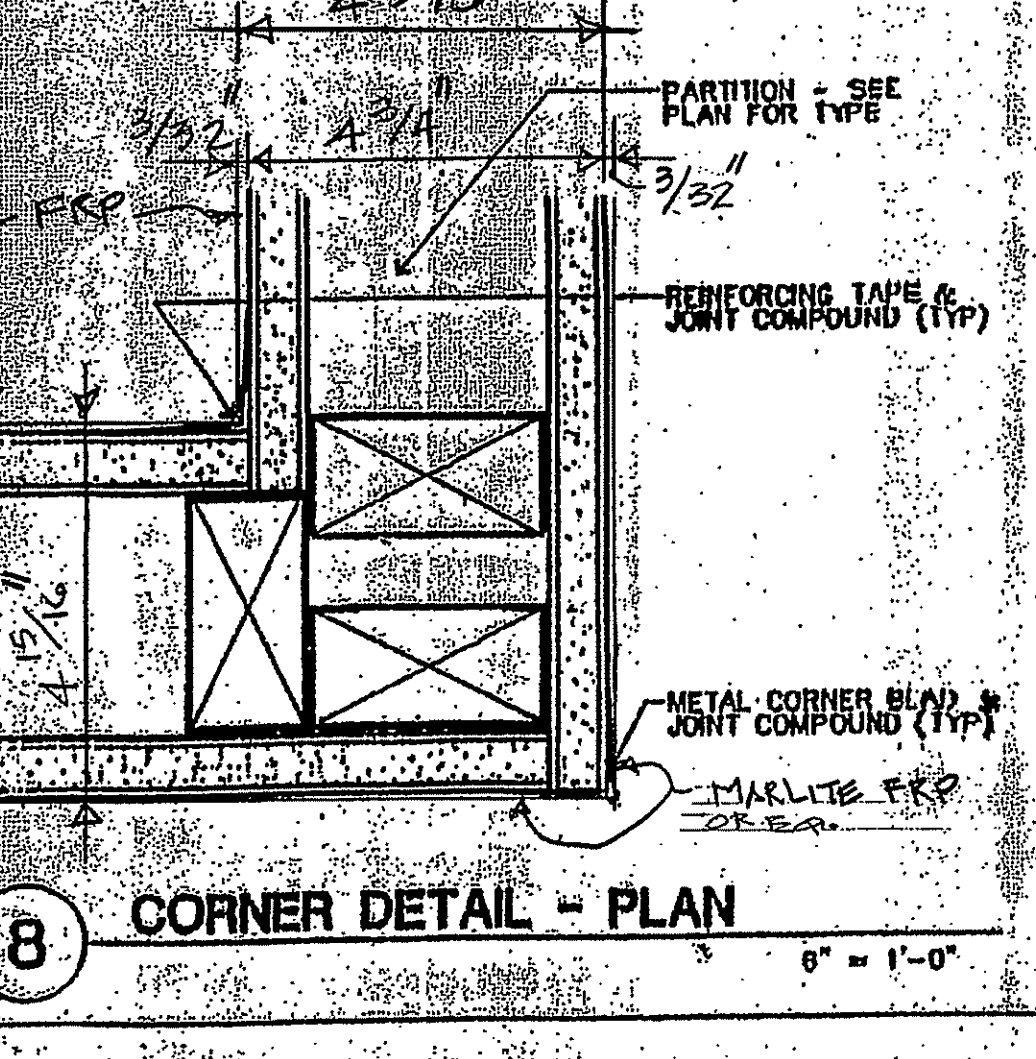
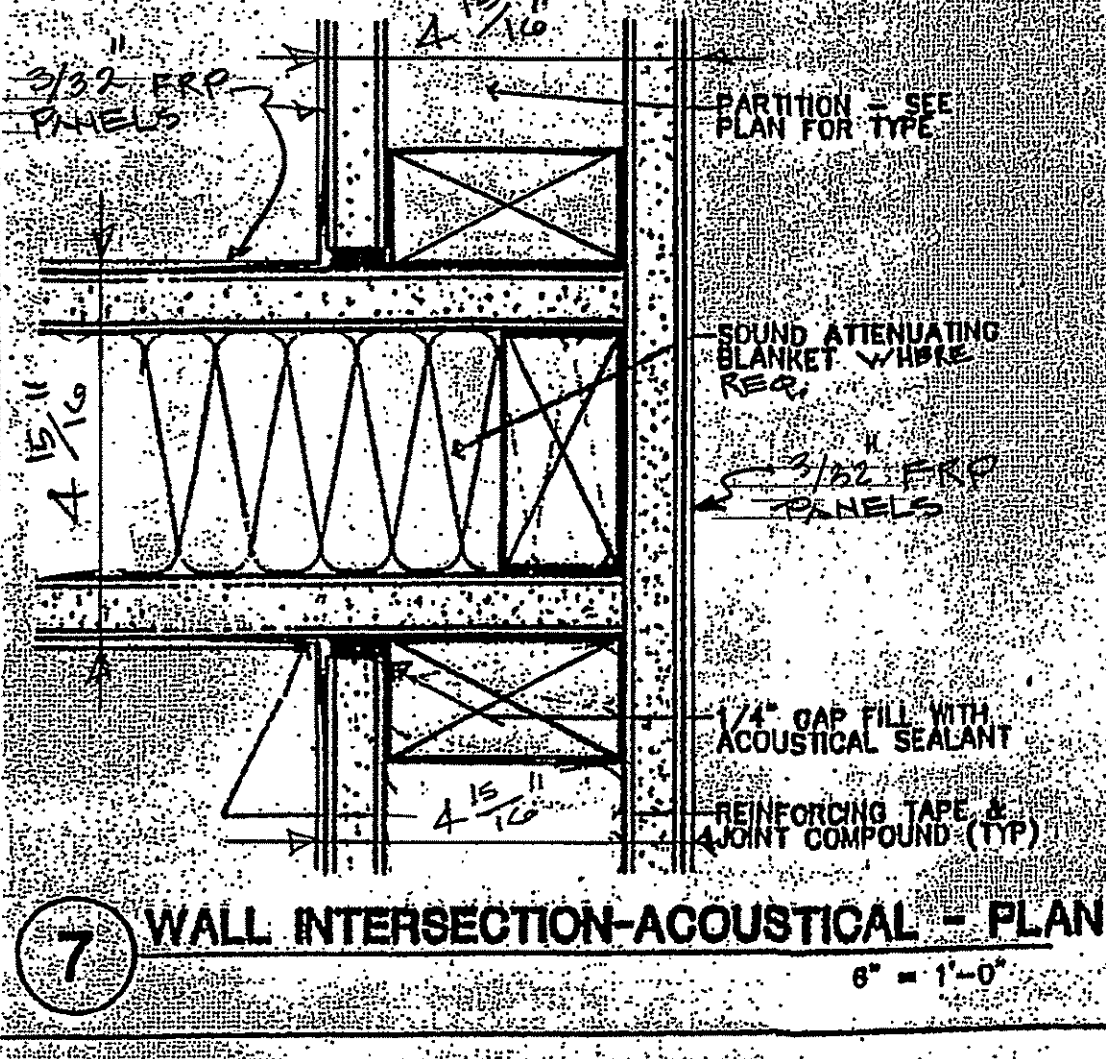
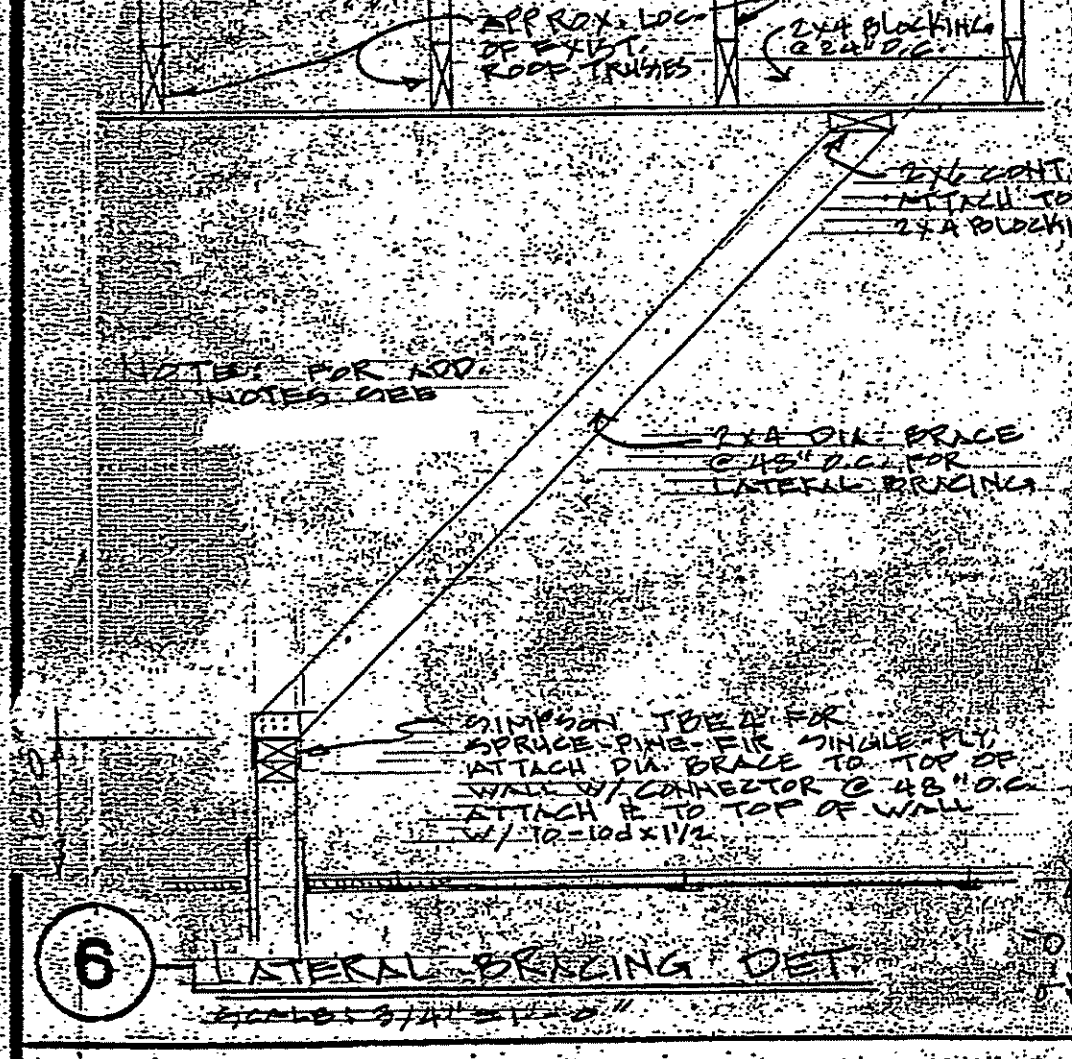
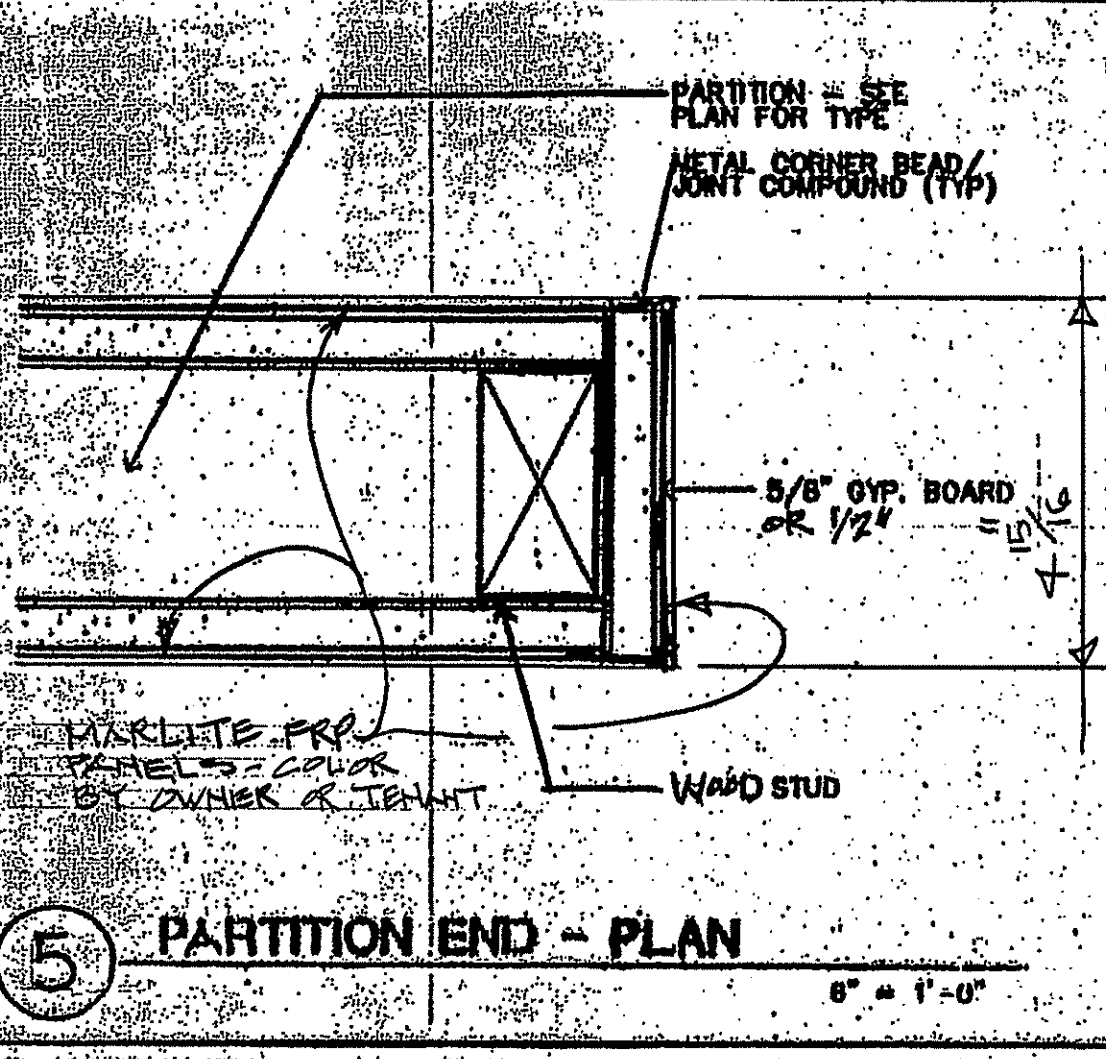
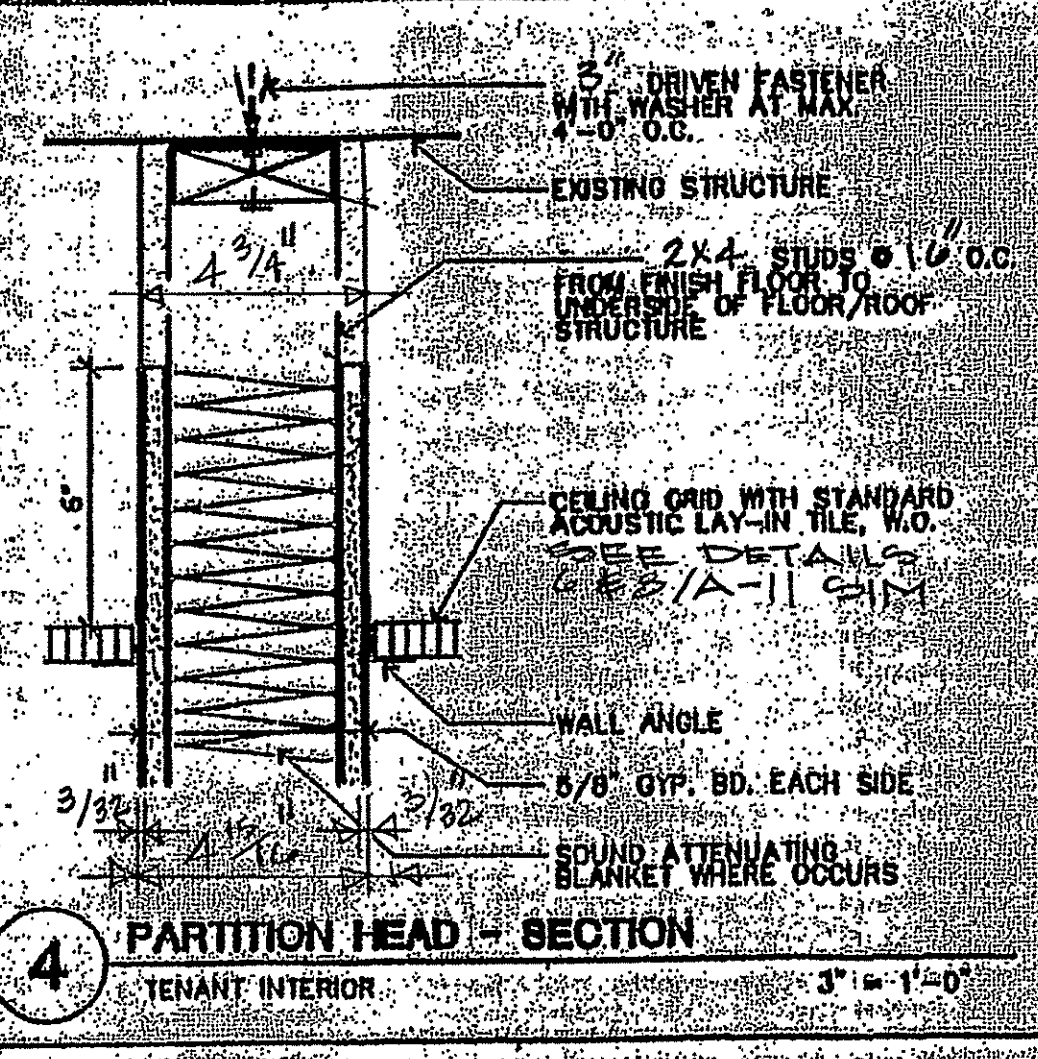
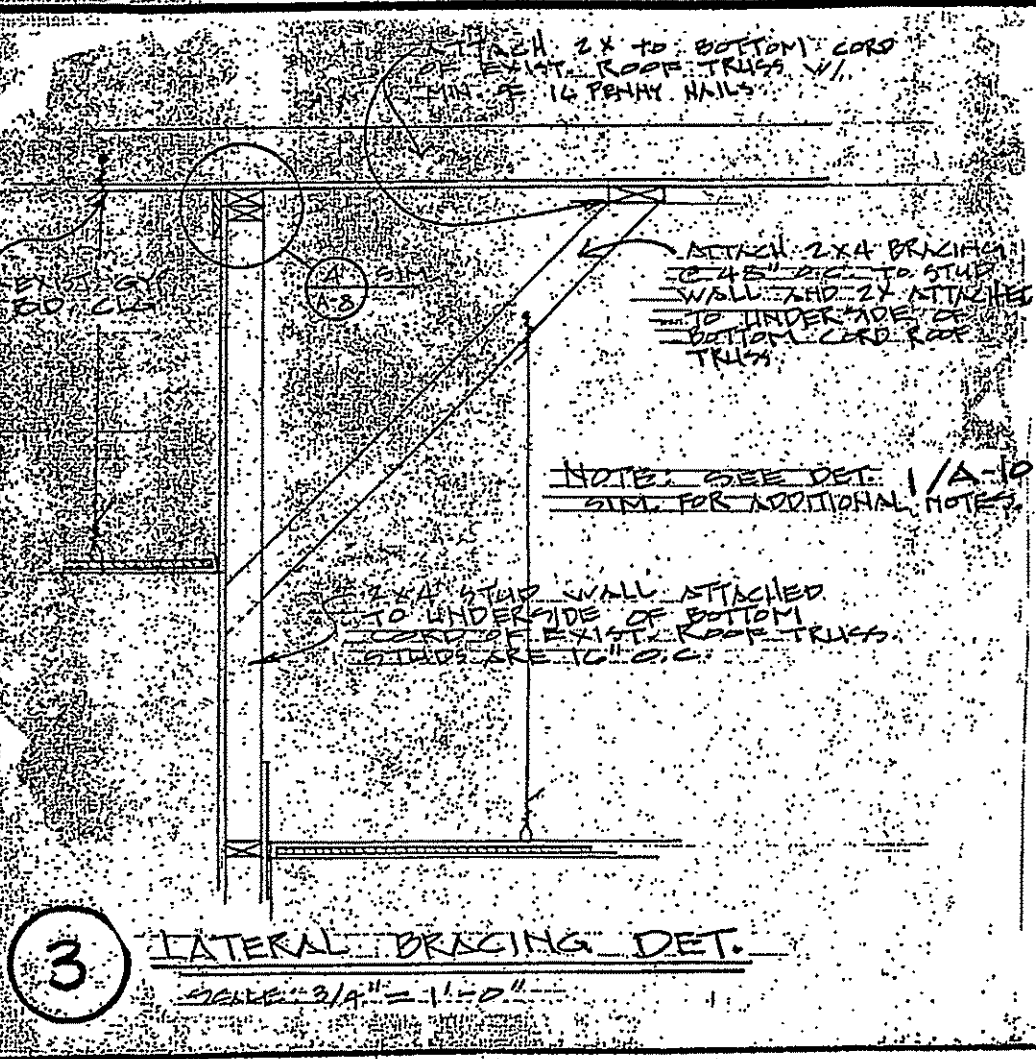
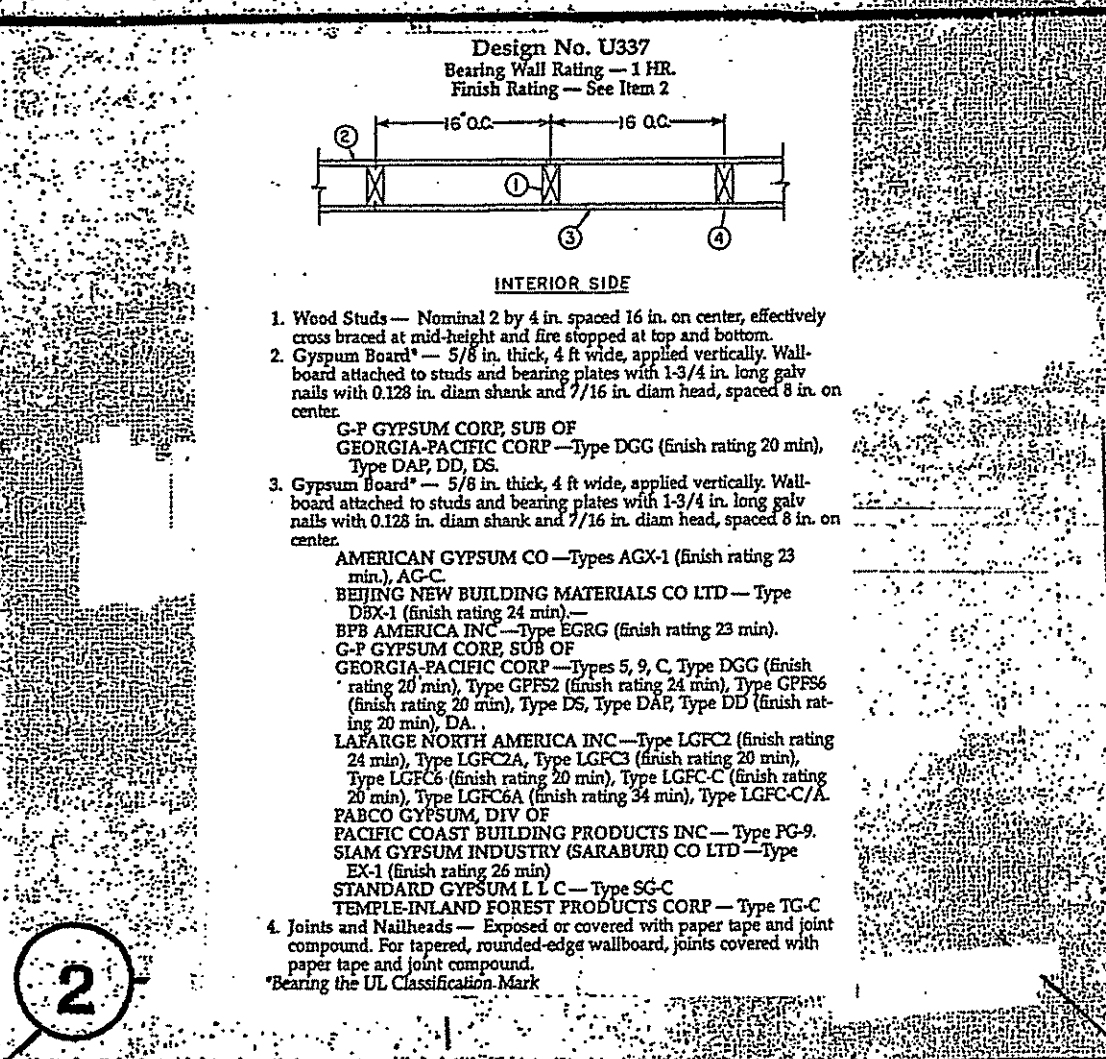
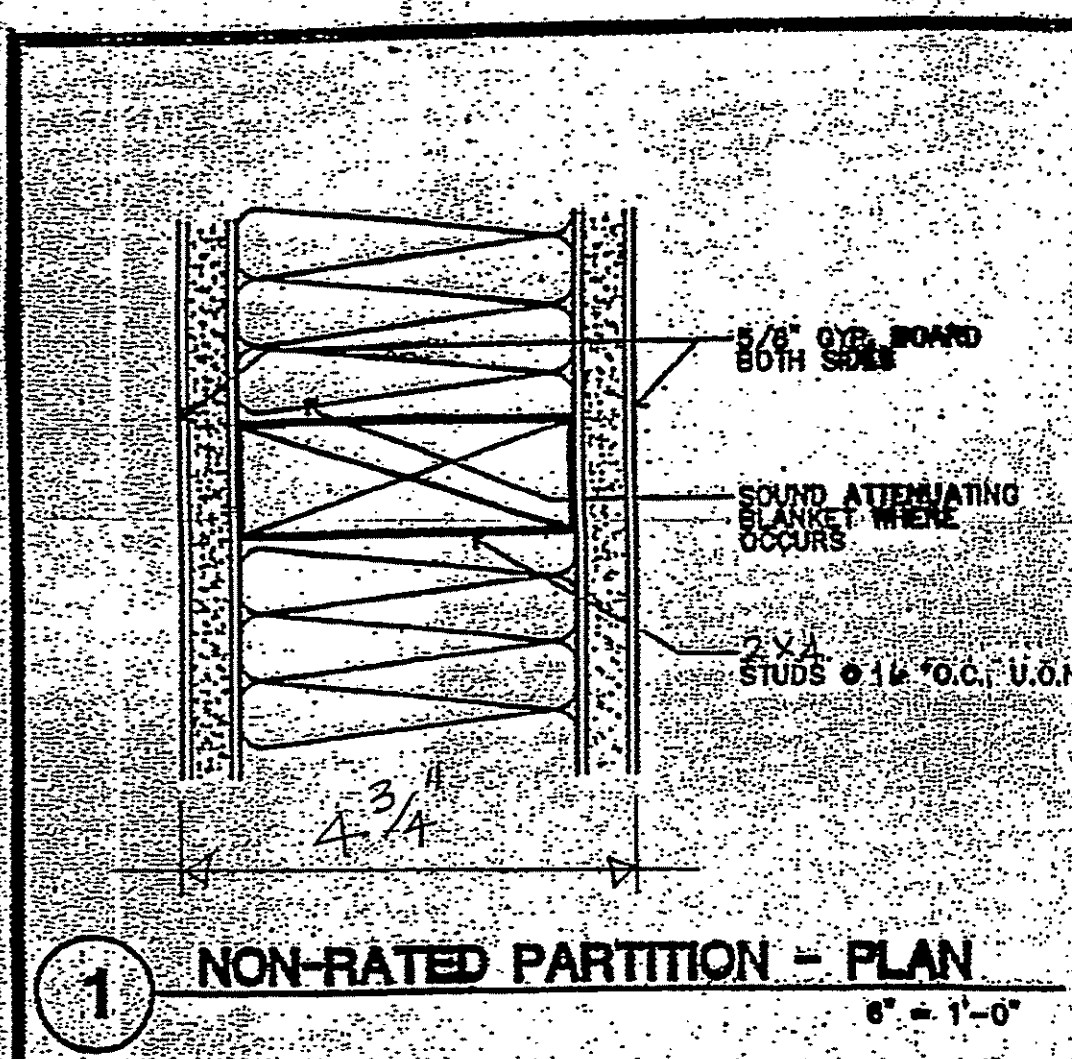
In large toilet rooms, where six or more toilet stalls are provided, at least one alternate required that a 36 inches (915 mm) wide stall with parallel grab bars be provided in addition to the standard stalls required in new construction. The 36 inches (915 mm) width is necessary to achieve proper use of this grab bar; wider stalls would position the grab bars too far apart to be easily used and narrower stalls would position the grab bars too close to the water closet. Since the stall is primarily intended for use by persons using canes, crutches and walkers, rather than wheelchairs, the length of the stall could be convenient. The door, however, must swing outward to ensure a usable space for people who use crutches or walkers.

(4) Toilets. In standard stalls, the front partition and at least one side partition shall provide a clear space of at least 36 inches (915 mm) above the floor. If the depth of the stall is greater than 60 inches (1525 mm), then the toe clearance is not required.



GA ACCESSIBILITY CODE

performs a side or diagonal transfer from the wheelchair to the water closet. However, space persons with disabilities who use mobility aids such as walkers, canes or crutches are better able to use the two parallel grab bars in the 36 inches (915 mm) wide alternate stall to achieve a standing position.



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STAMP

KEY PLAN

PRINTING AND REVISIONS

DATE DESCRIPTION

REVISION: 8/30/2018

STATE OF GEORGIA

Professional Seal

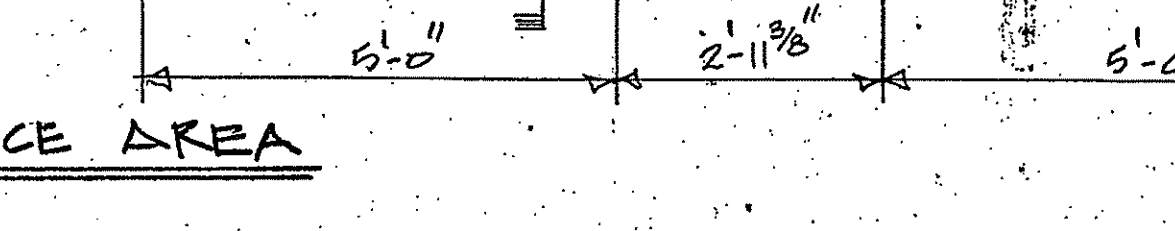
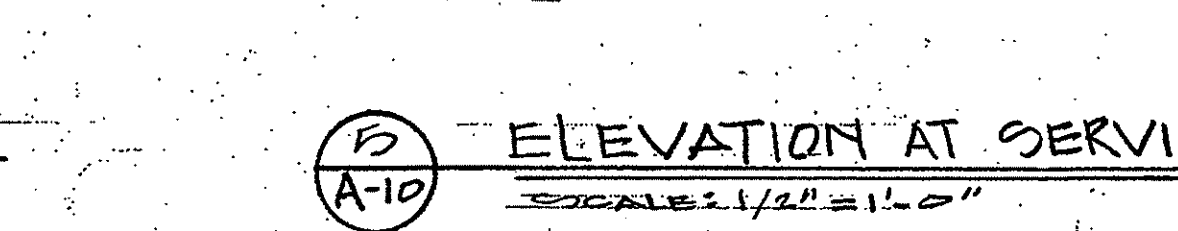
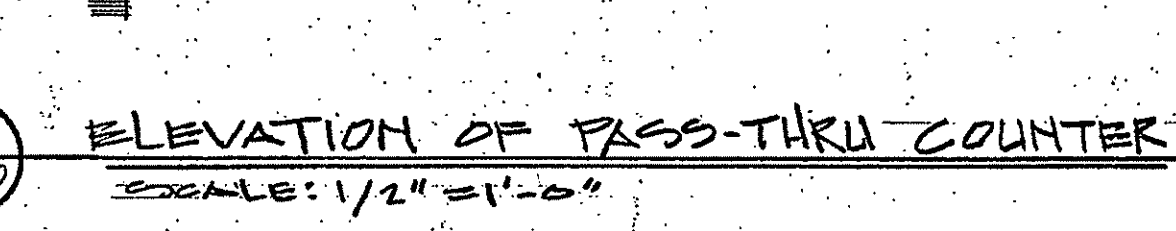
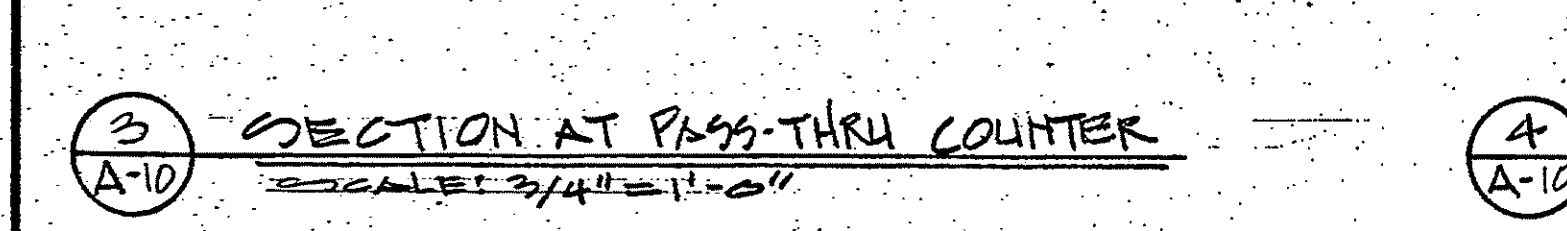
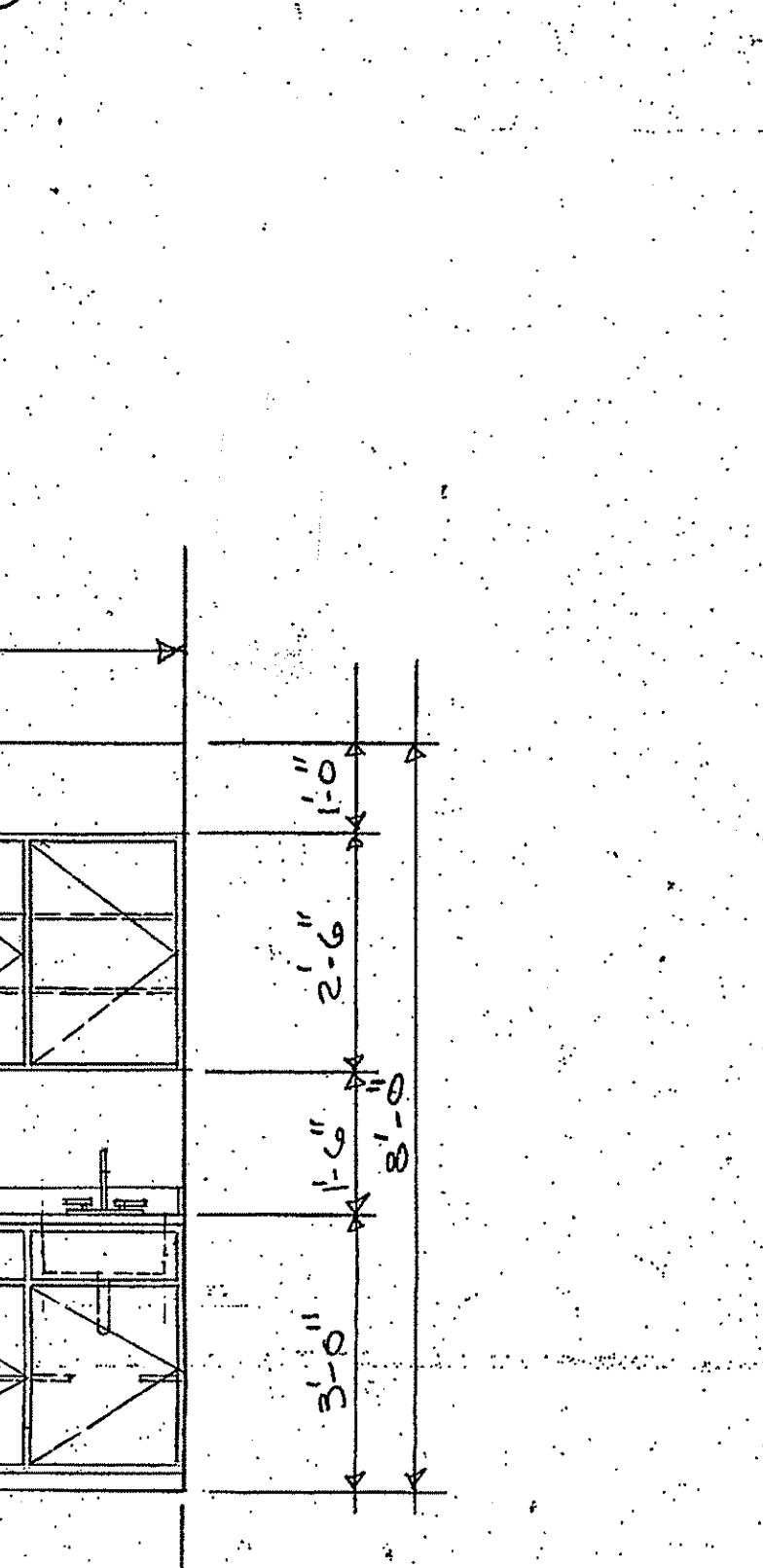
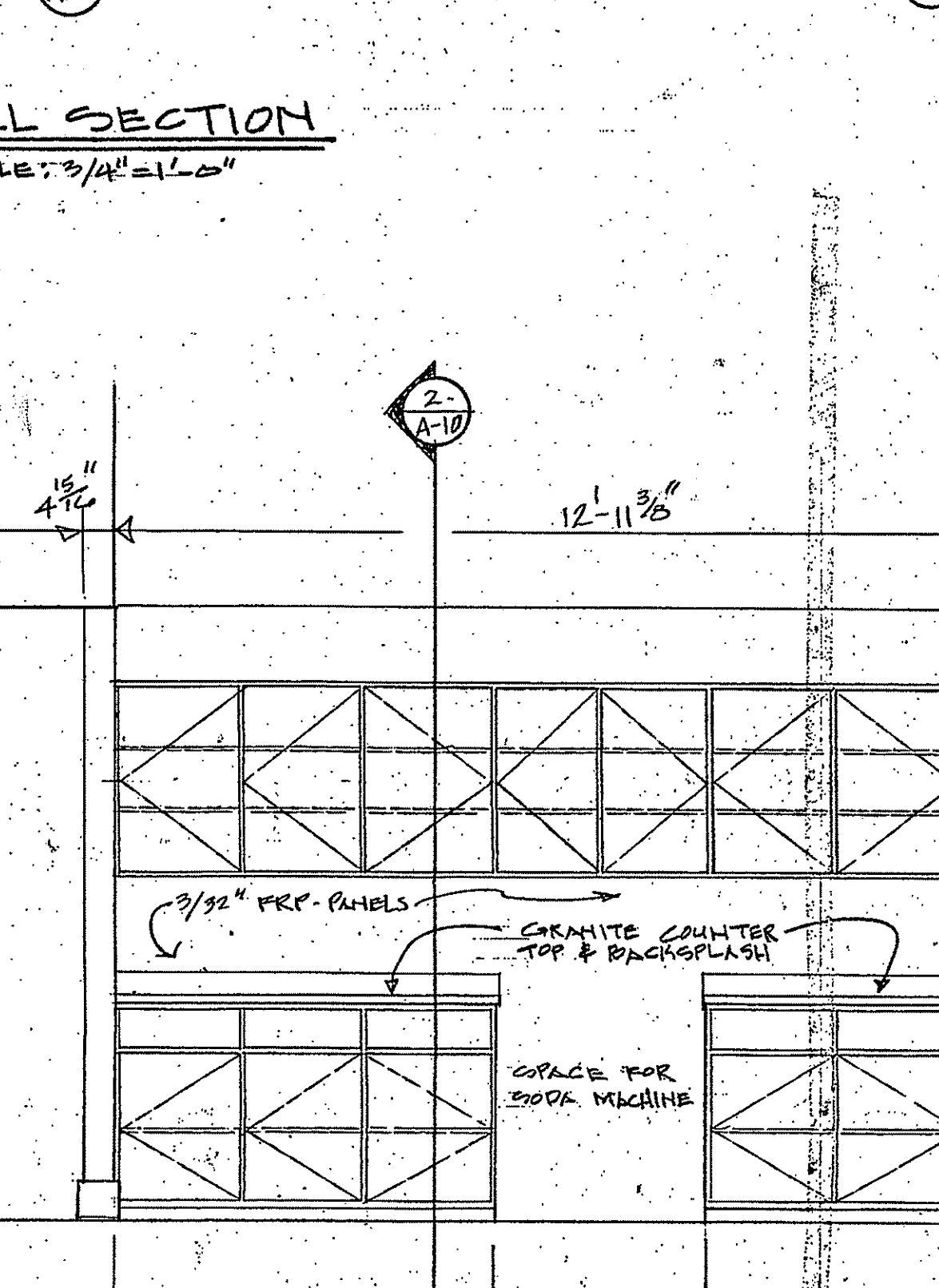
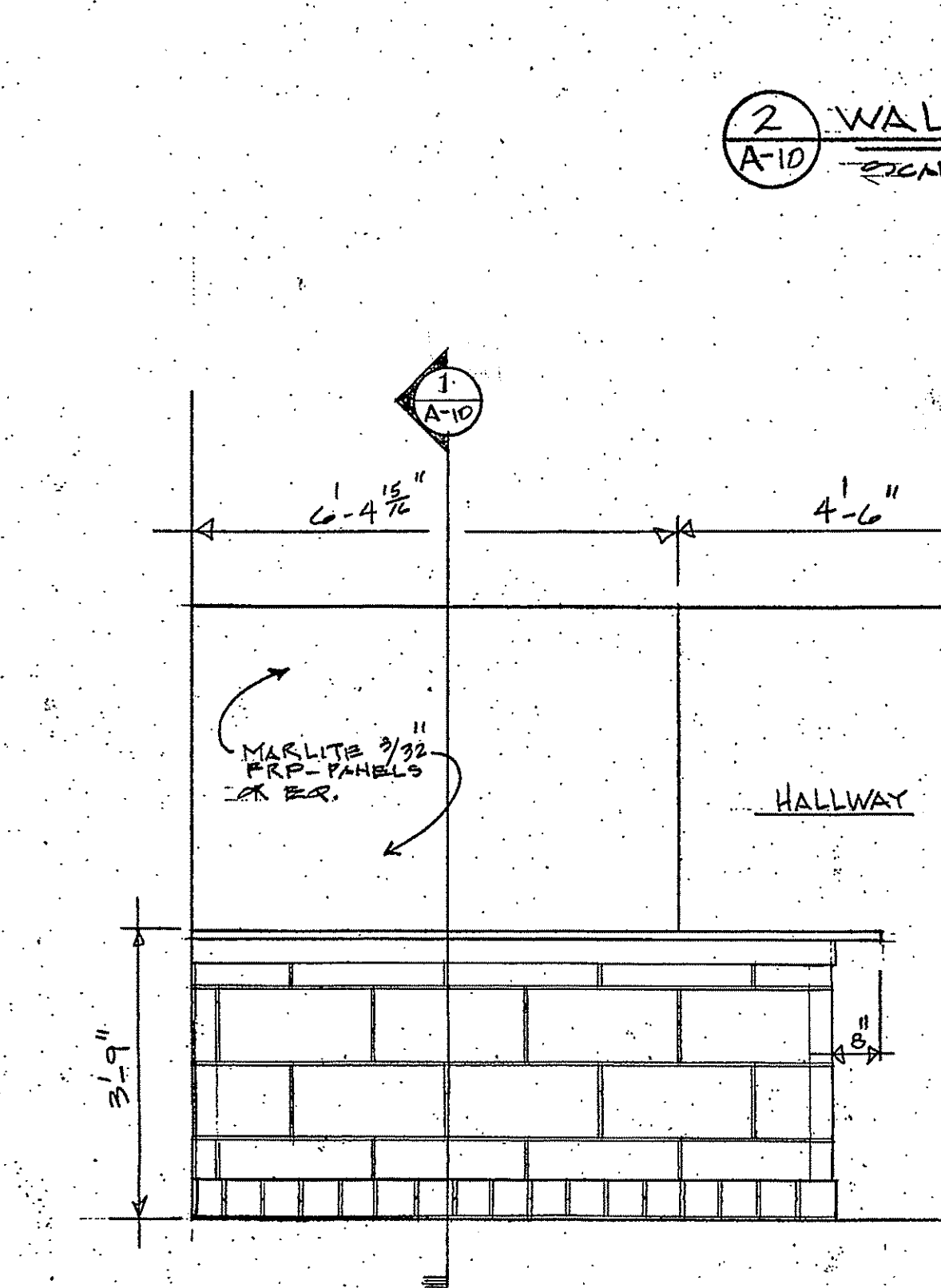
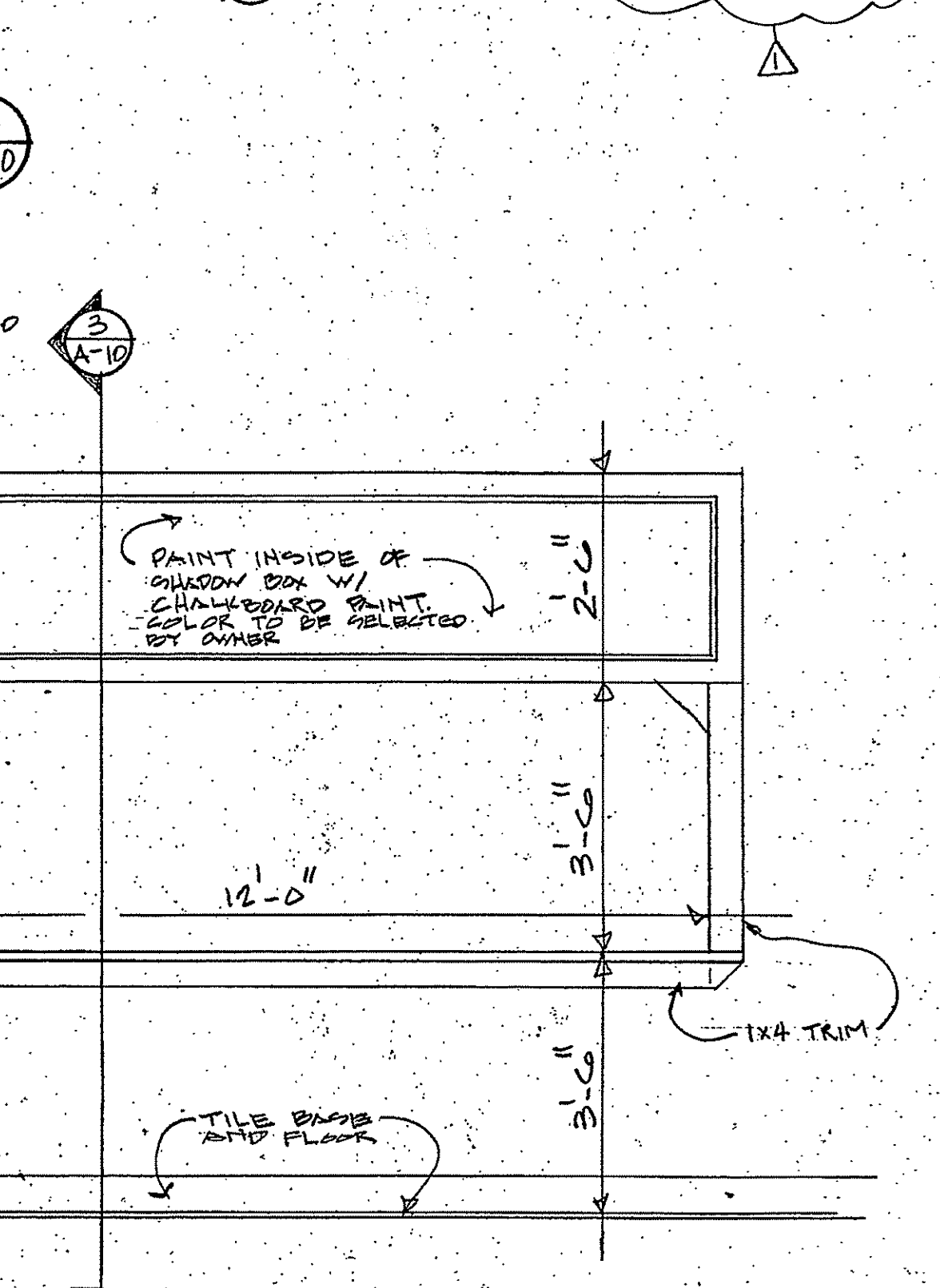
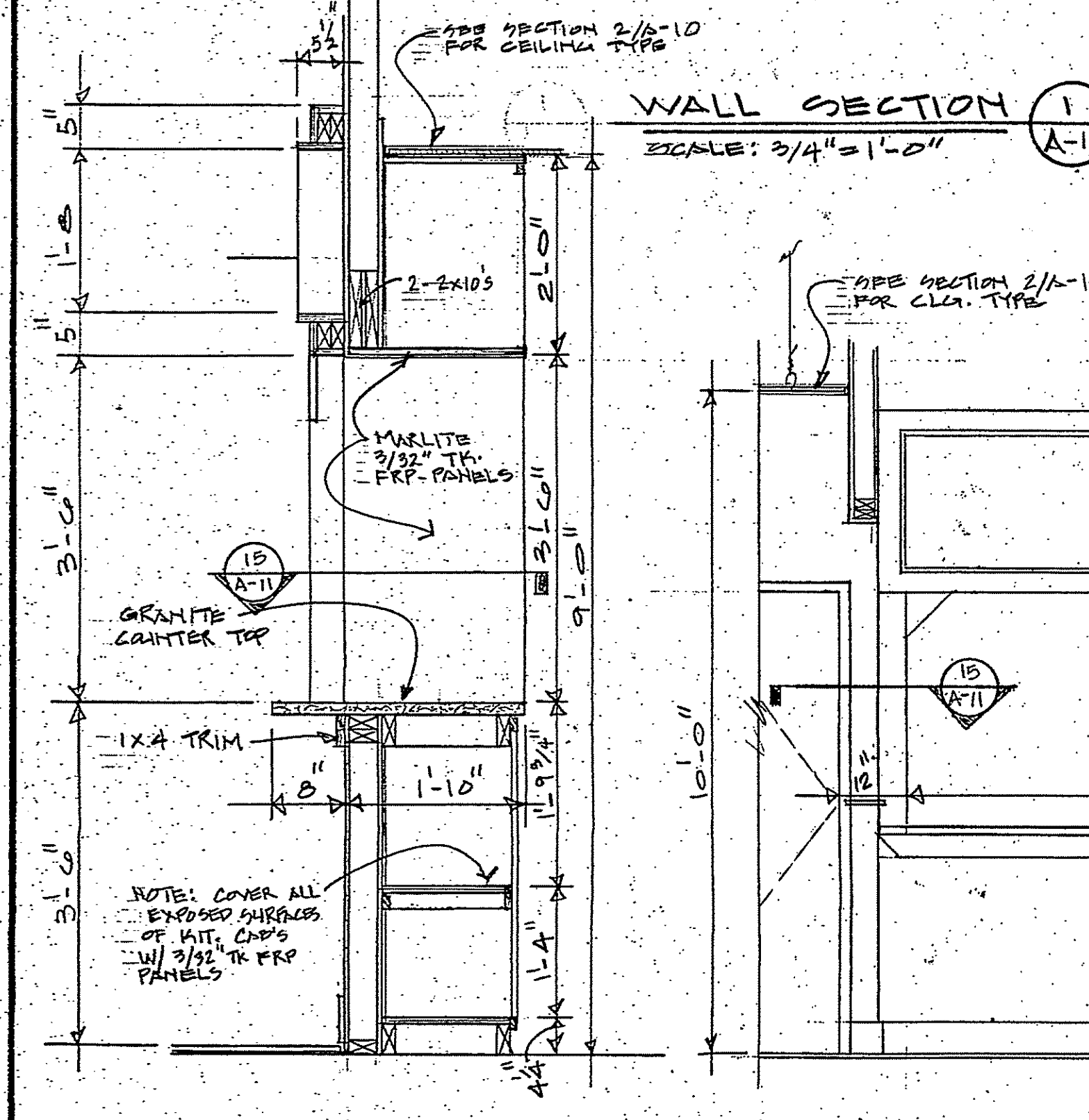
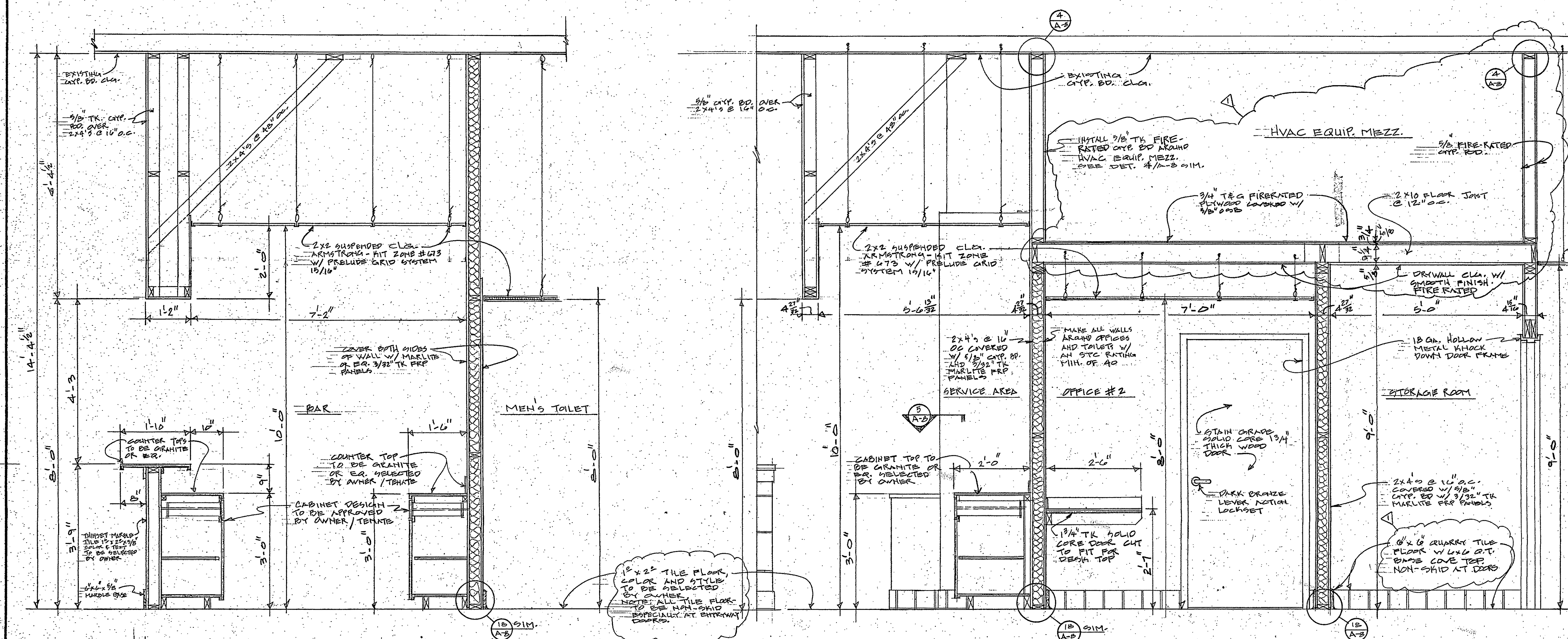
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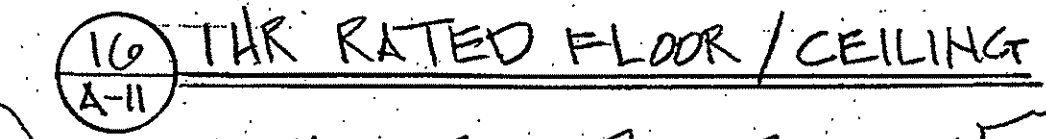
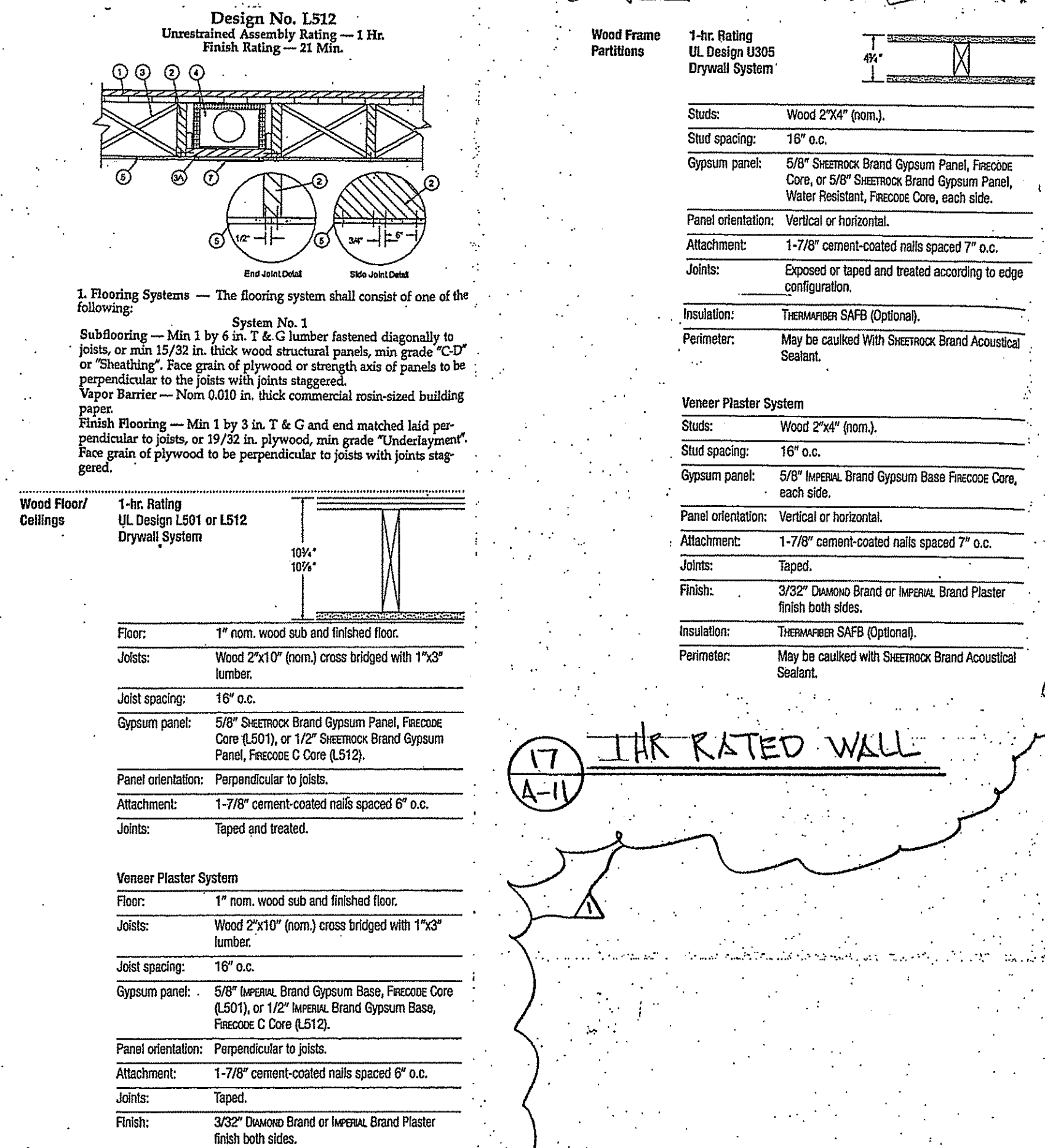
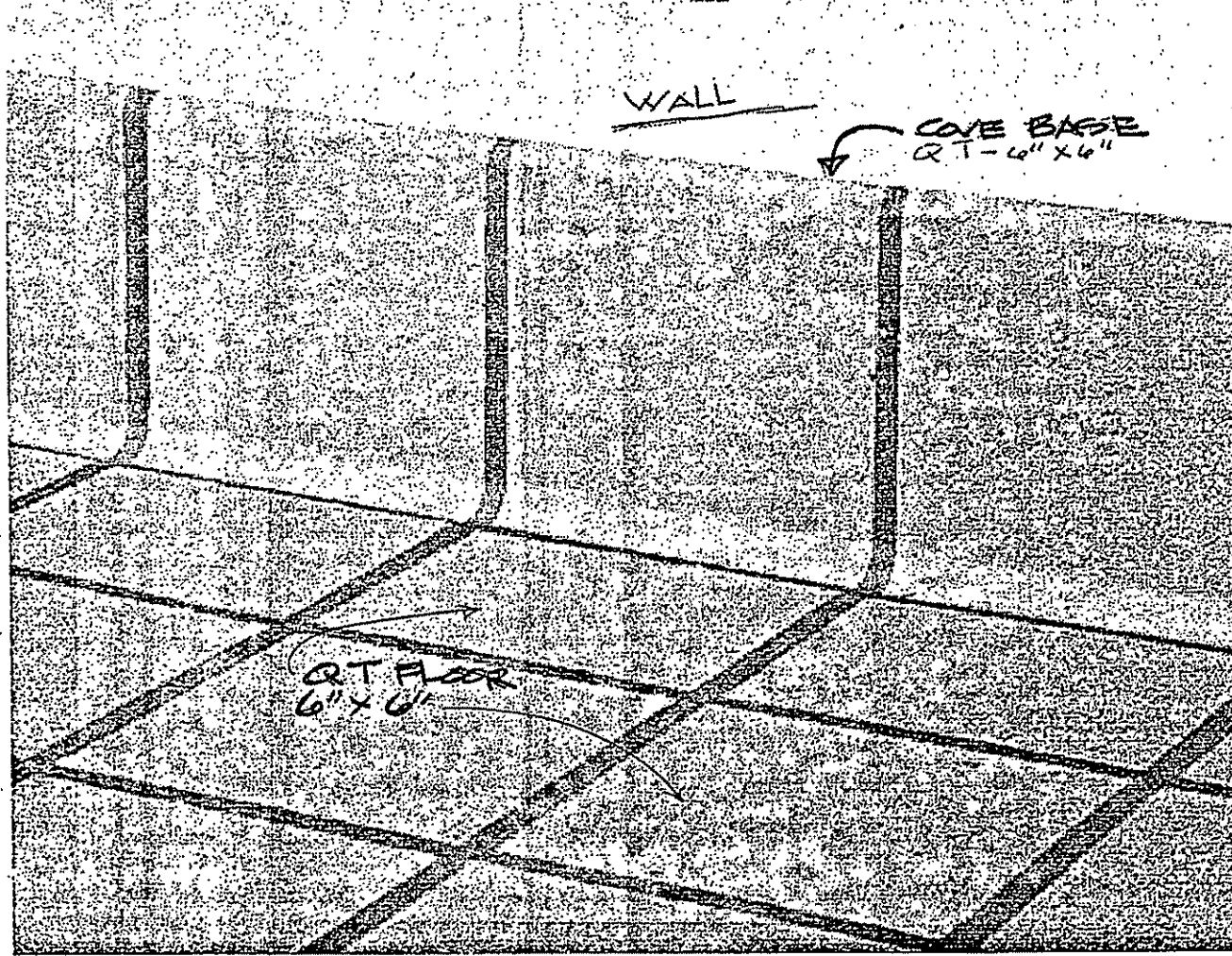
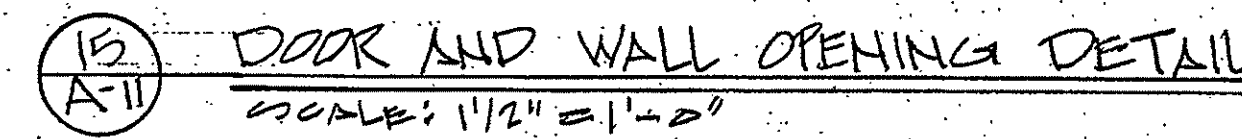
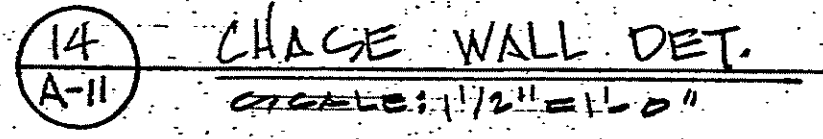
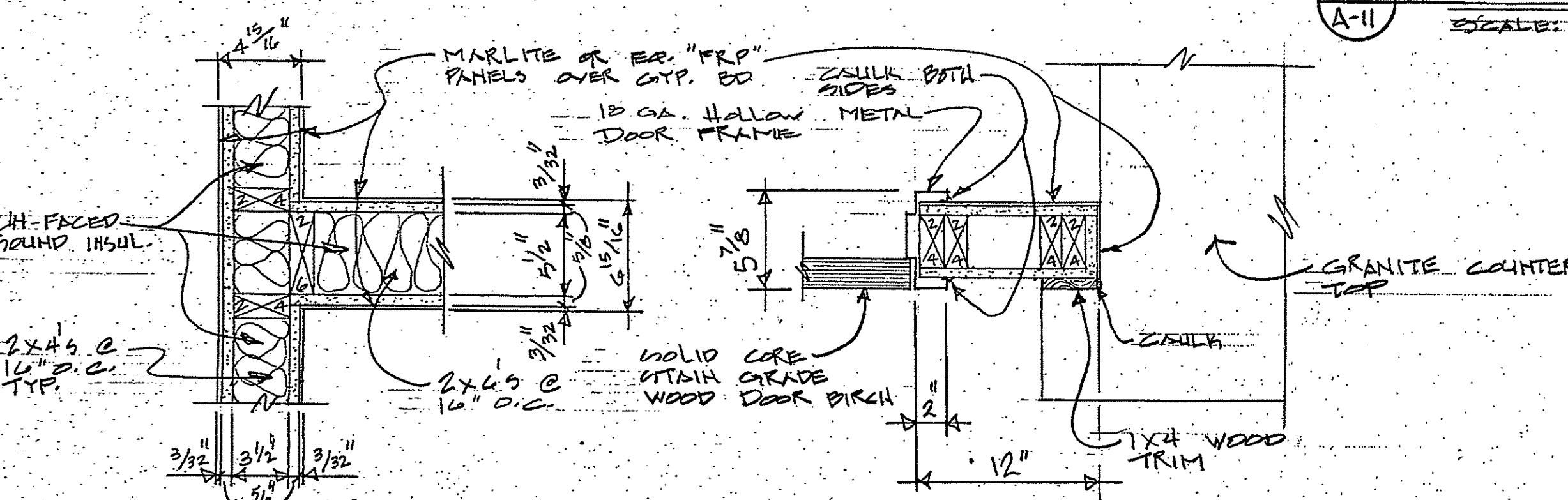
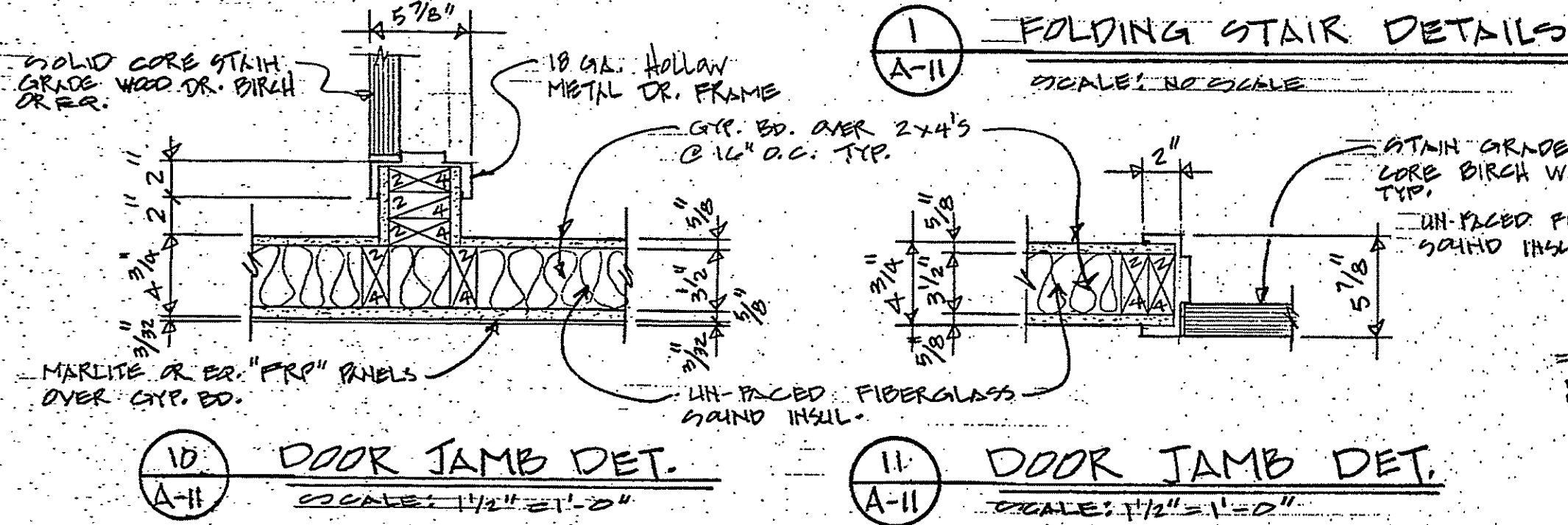
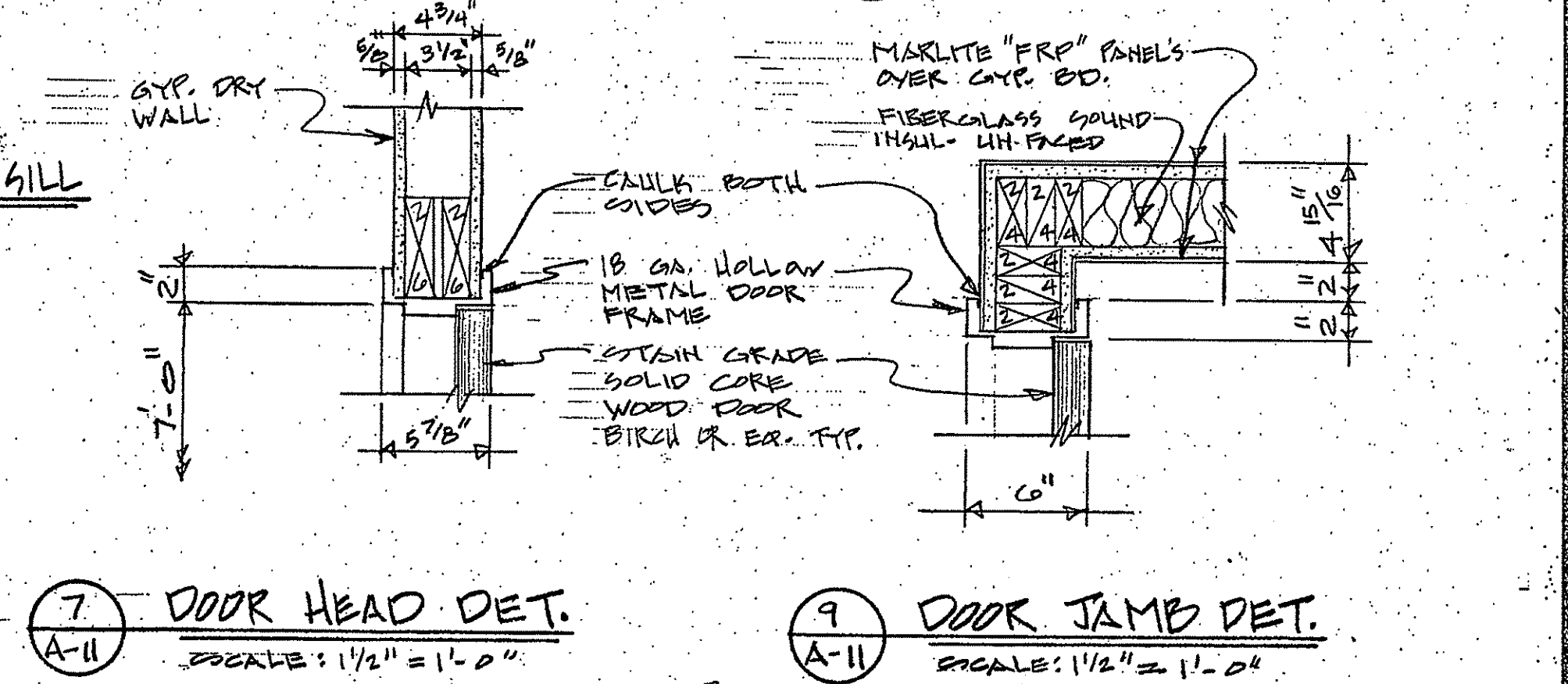
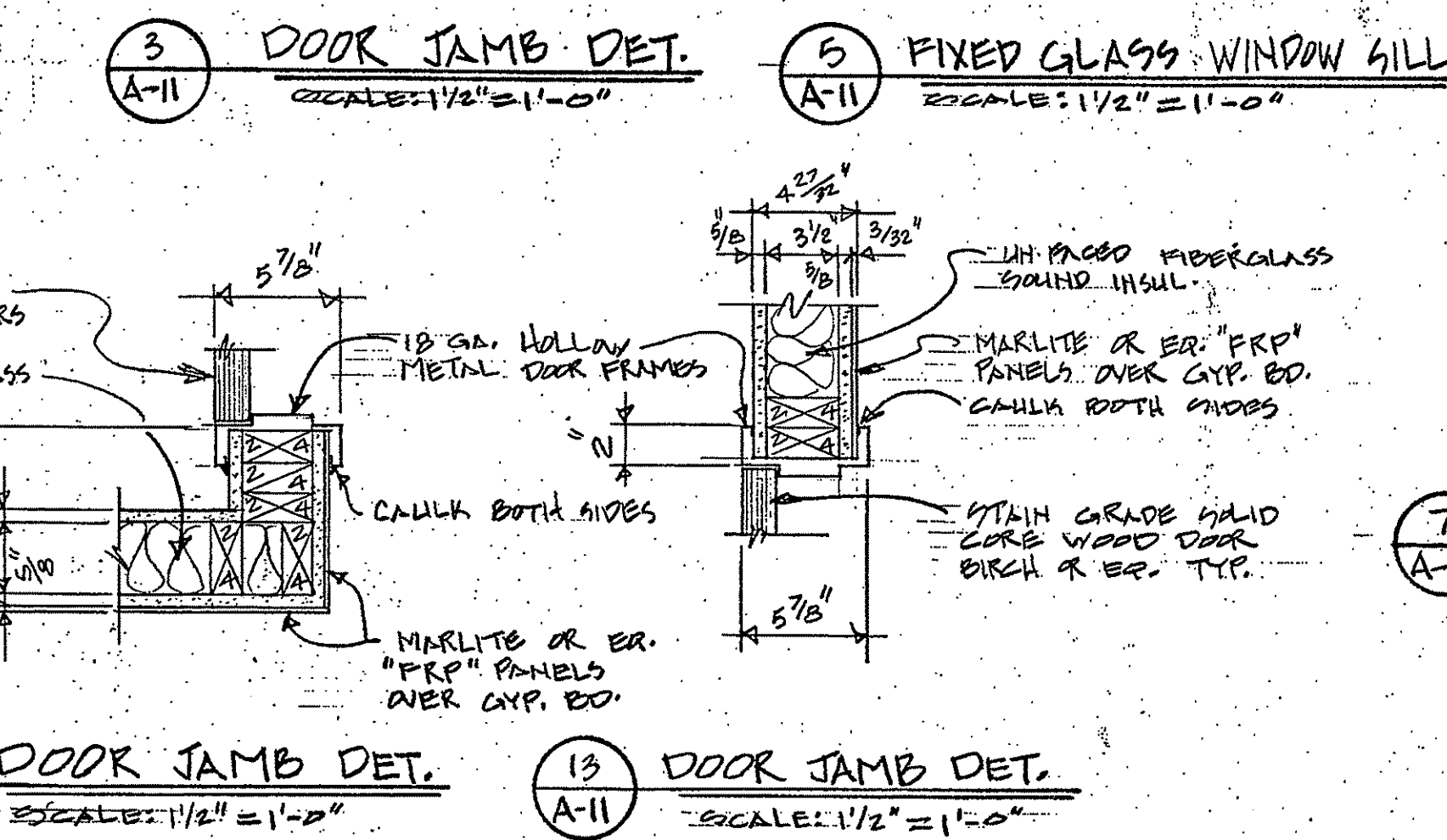
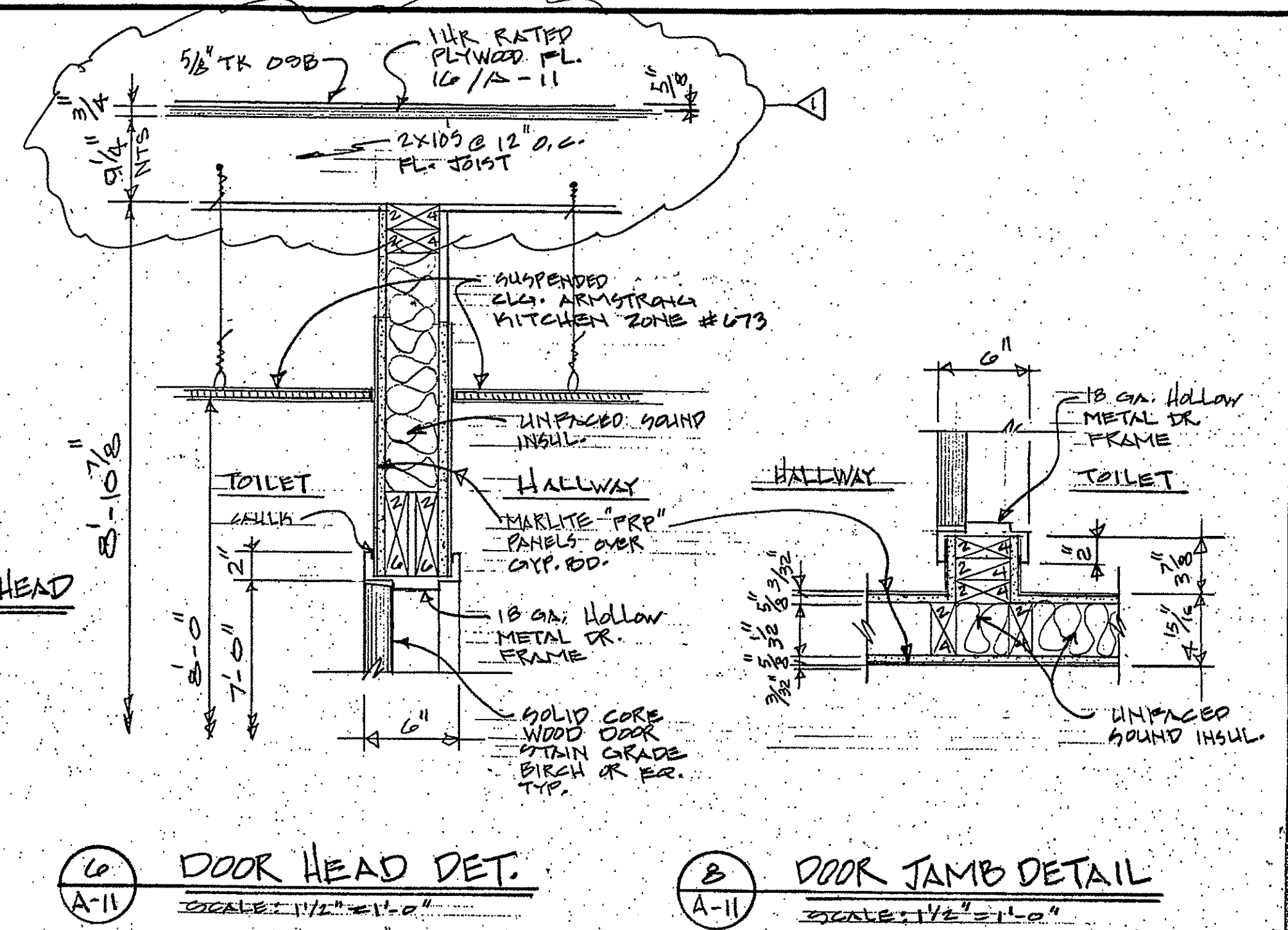
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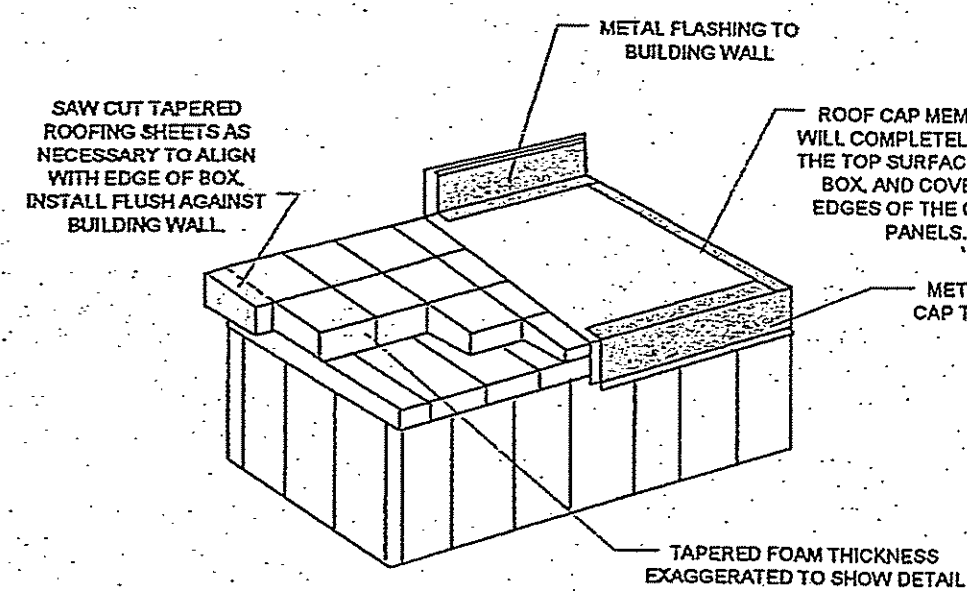
A-8

FOR CONST. ONLY





Tapered Roof System

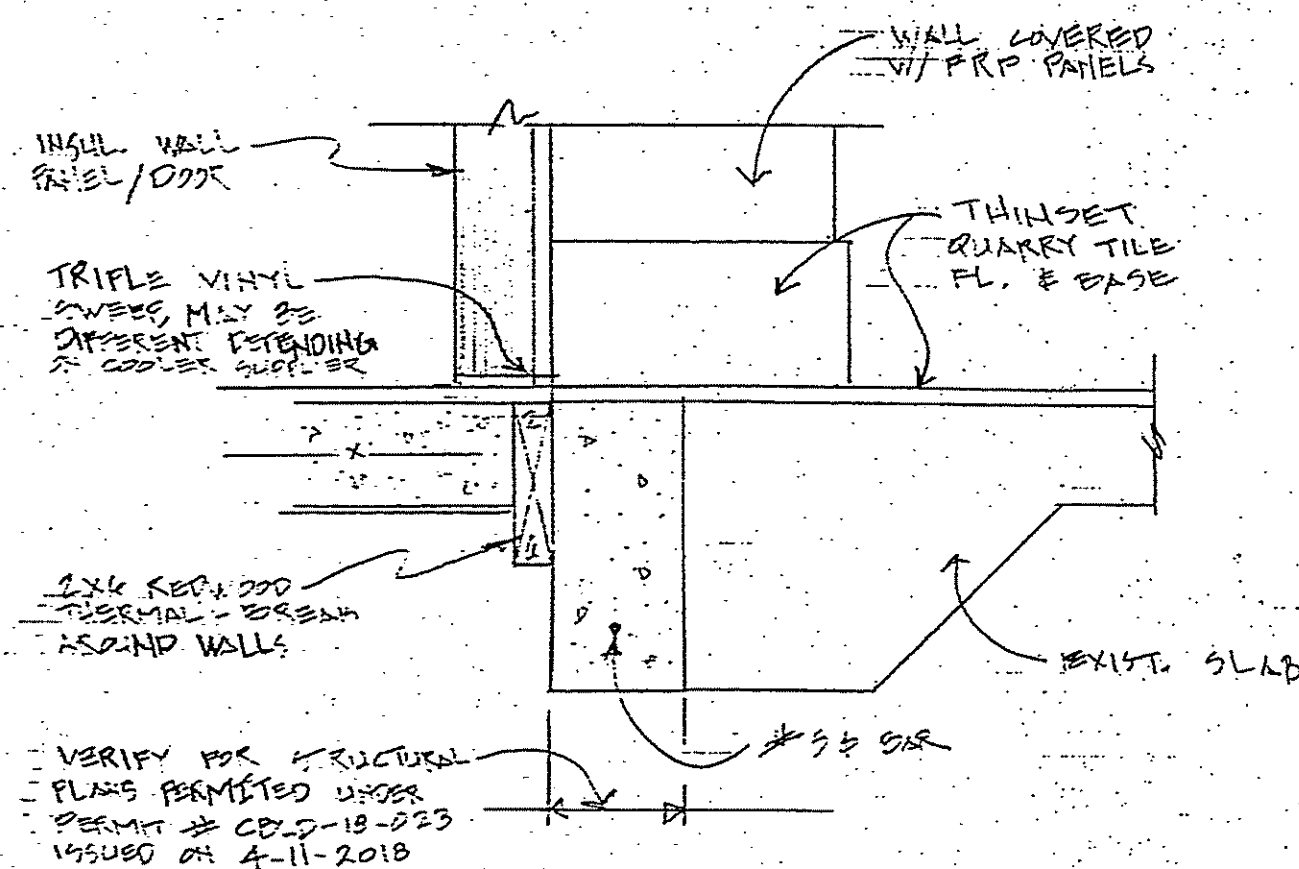
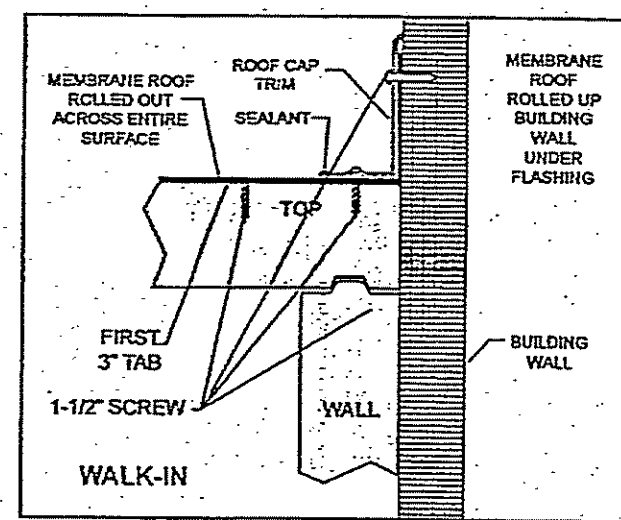
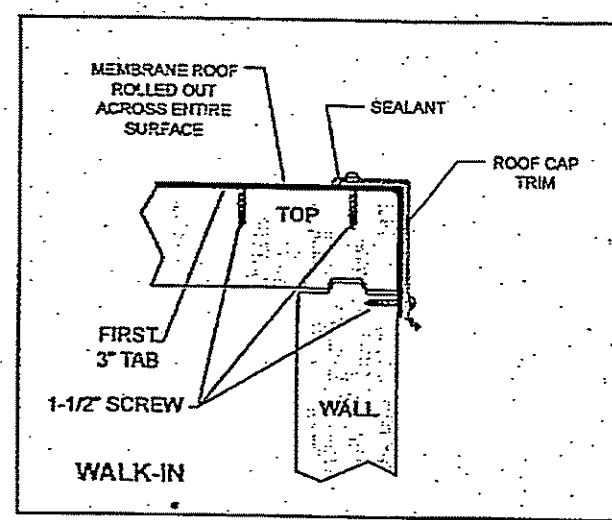
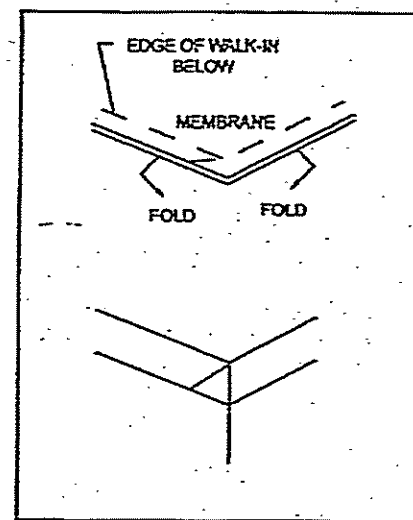


The tapered roof system consists of tapered foam sheets, rolled polyethylene roof cap membrane, flashing, roof cap trim, and fasteners. Installation is identical to standard membrane roofs with the exception of adding the sloped foam sheets. In applications with very large roofs, multiple layers of sloped foam may be required.

WARNING

Building codes require a minimum of 1/4 inch per foot slope on outside roof systems. If a tapered roof system is not purchased with an exterior walk-in, it is the purchaser's responsibility to ensure this requirement is met.

After all fastening tabs have been secured, fold corners as shown and install roof cap trim around perimeter of walk-in unit. Use 1-1/2" stainless steel screws spaced 6" on center.

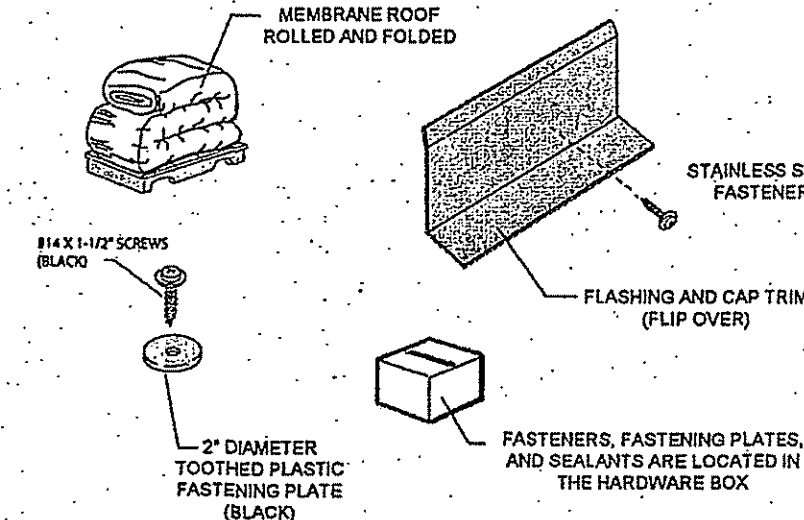


2 WALL DETAIL C-COOLER / FREEZER DOOR

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

Membrane Roof System

Locate the parts required for the installation of the membrane roof. The membrane roof is shipped rolled and folded. The termination bar and any roof trim required are shipped in 6" diameter by 10' long cardboard tubes. A hardware box containing screws, fastening plates and sealant is also included.



- Check the roof of the walk-in unit and remove any foreign matter. Seal all protruding rough edges and screw heads, rivets, etc. with tape or sealant. This will prevent any chance of penetrating or wearing a hole in the membrane roof cap.

WARNING

Make sure that any safety precautions are taken as necessary to prevent anyone working on the roofing installation from falling off from the top of the unit.

Ceiling panels are not intended for walking traffic or any other loads. Ensure that during install, a lift or boom is used to support installers and equipment weight, so that the extra loads are not supported by the ceiling panels.

CAUTION

Make sure that any debris is removed from the top of the unit before installing any roofing materials, as damage may occur to the membrane roof cap if installed over a sharp object.

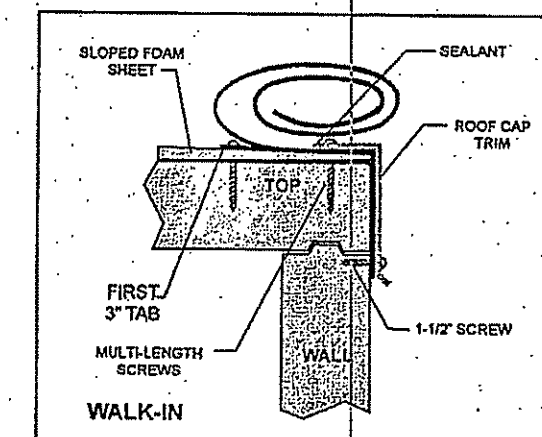
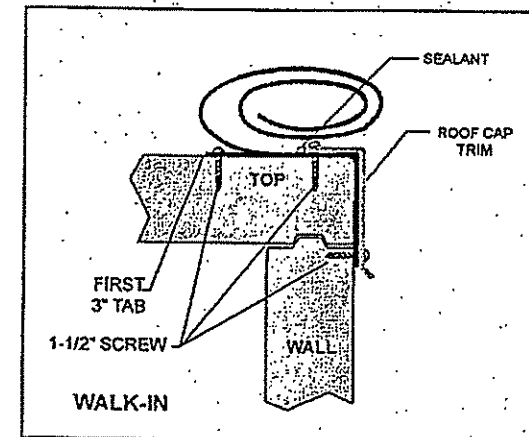
Maintenance and Housekeeping Recommendations

WARNING

Walk-in floors can become slippery and hazardous if allowed to become wet, greasy, or icy. Follow maintenance and housekeeping recommendations outlined below to minimize any hazards.

- Inspect the conditions of abrasive coated anti-skid strips on ramps monthly. Replace or add additional strips when necessary. Abrasive coated anti-skid strips are factory installed on ramps. Additional strips are available from the factory.
- Keep all walkway surfaces clean and free of spilled liquids and food particles. This includes the floor surface, hardwood floor racks, and diamond tread plate.
- Inspect refrigeration equipment frequently for proper functioning of evaporators, drain pan heaters, defrost controls, and drain line heaters. Refer to manufacturers' instructions for the refrigeration system.
- Condensate water must never be allowed to drip on the walk-in floor. Refer to refrigeration system instructions for proper condensate drain line installation.
- If entry doors are to be held open for periods longer than 5 minutes, a vinyl strip curtain should be used. When doors are opened for extended periods of time, frost can form on the ceiling and floor due to the excessive condensation of warm moist air inside the walk-in. This can result in the formation of an ice film on wall, ceiling and floor surfaces or around gaskets.
- Inspect the door hardware and sweep gasket monthly for ease of operation. Door hardware is self lubricating and does not require periodic lubrication. Sweep gasket must be adjusted to allow free movement and proper seal. Any damaged hardware should be replaced immediately to prevent permanent damage to the door.
- Frost or condensation appearing around the door jamb or heated pressure relief vent indicates that the electric heater is inoperable, or excessive moisture is present. Check power supply and electrical connections. Replace heaters if necessary.
- All metal surfaces, magnetic door gaskets and door sweep gaskets should be cleaned frequently with a mild detergent and hot water. Remove all soap film and dry thoroughly with a clean cloth. Never use high pressure hose or large amounts of water to clean walk-in.

- Install the sloped foam sheeting (if required) first. Locate the thickest tapered sheets and install them flush to the building wall, working toward the furthest edge with progressively thinner sheets.
- If the unit is free standing, align the thickest panel along the side of the ceiling panel.
- Verify the overall width and length of the membrane by measuring the sloped (of flat) dimension on top of the unit, and compare to the printed size on the rolled membrane. The membrane should overhang the top edge of the wall panel by 5" on all exposed sides of the walk-in unit, and extend at least 8" up on adjacent building walls.
- The smooth (shiny) finish surface of the membrane is the exposed (up) side. The 3" fastening tabs are on the bottom side of the membrane.

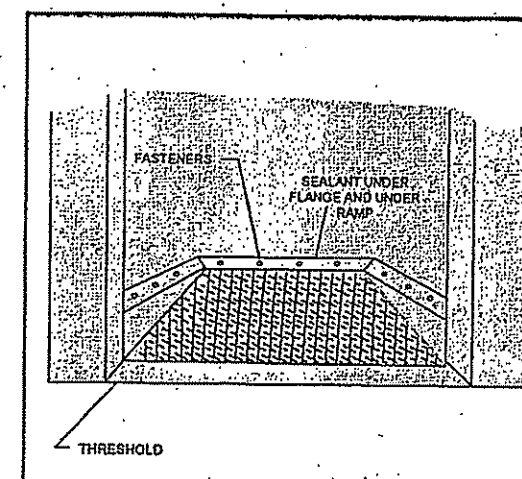
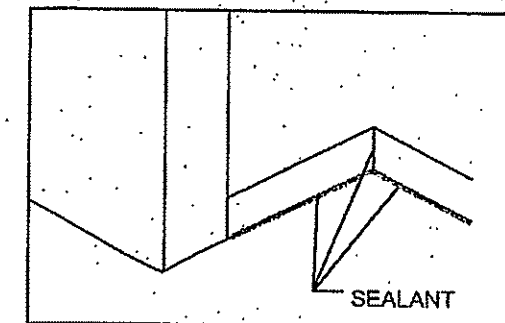


- Unroll roof membrane and align first 3" tab with a square chalk line across the unit. Fasten 3" tab by using 1 1/2" black #14 screw and fastening plate. Align membrane so that the tabs are perpendicular to the adjacent building.
- Start in the middle of the tab and work toward the edges placing the screws and plates 6" on center. Pull membrane toward edges to remove slack. The 1-1/2" screws should penetrate the top metal skin of the walk-in top panel.

Interior Ramps Installation

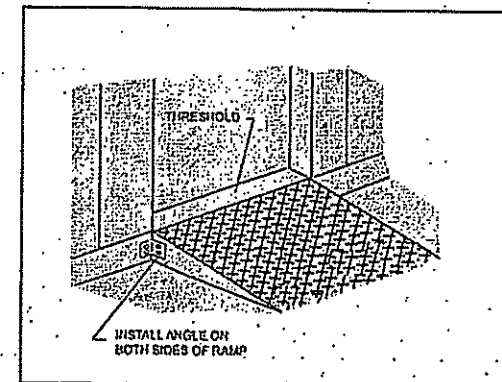
Review the floor panel layout on the assembly drawing. Panels are labeled with numbers corresponding to those on the assembly drawing.

- Apply sealant at ramp cavity to concrete and floor intersections. Install ramp and drive fasteners in place. Apply sealant to all ramp edges.

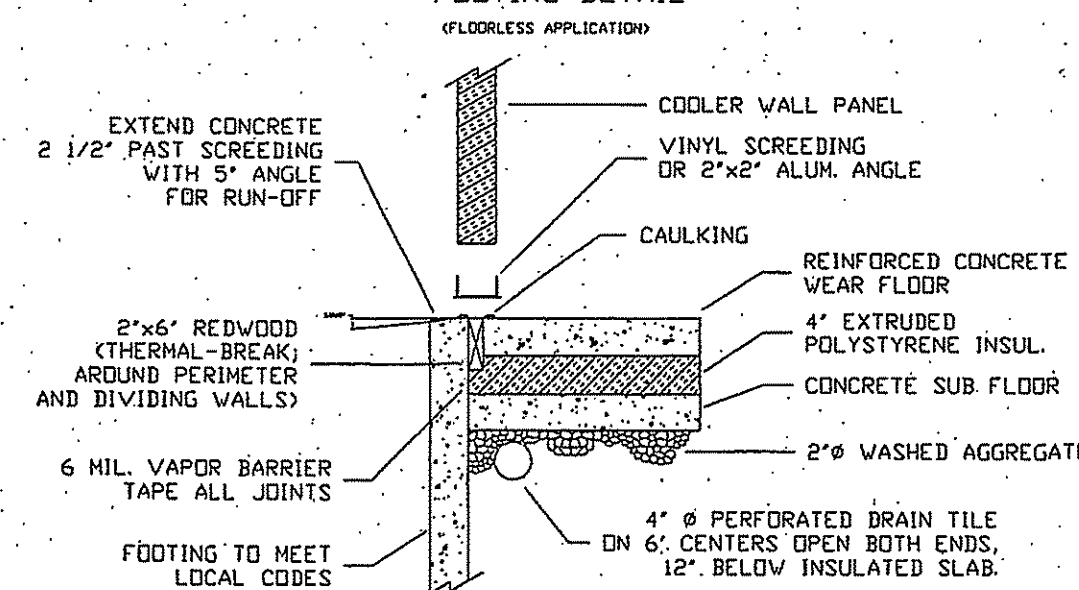


Exterior Ramp Installation

Install the exterior ramp and fasteners per the details provided on the assembly drawing.



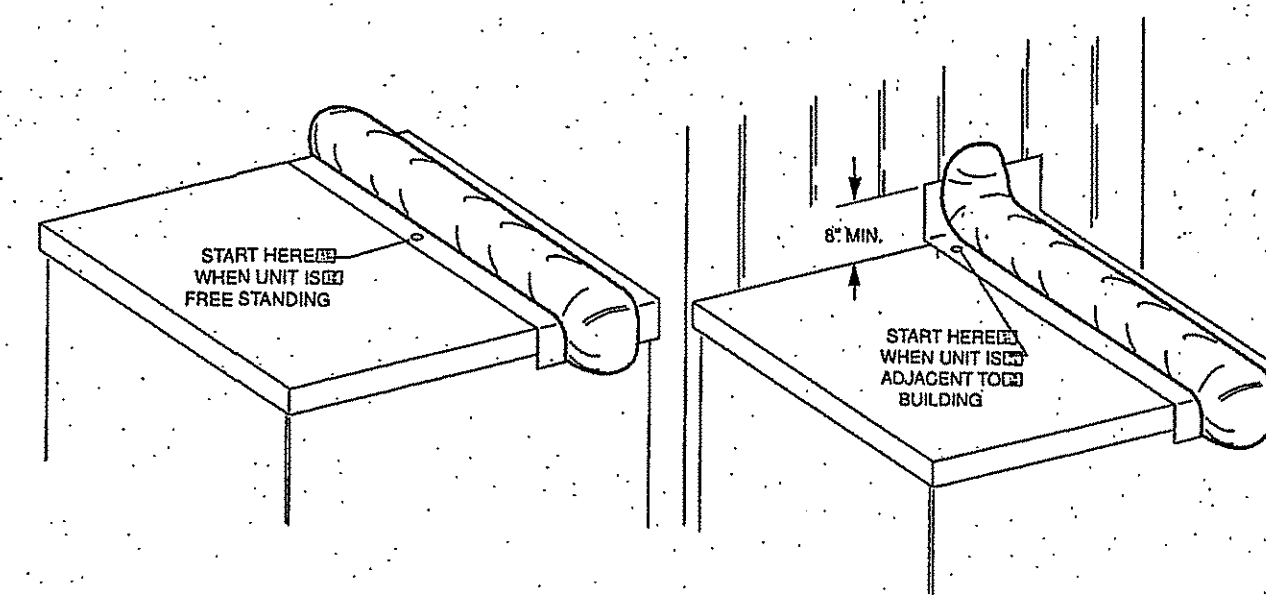
FOOTING DETAIL



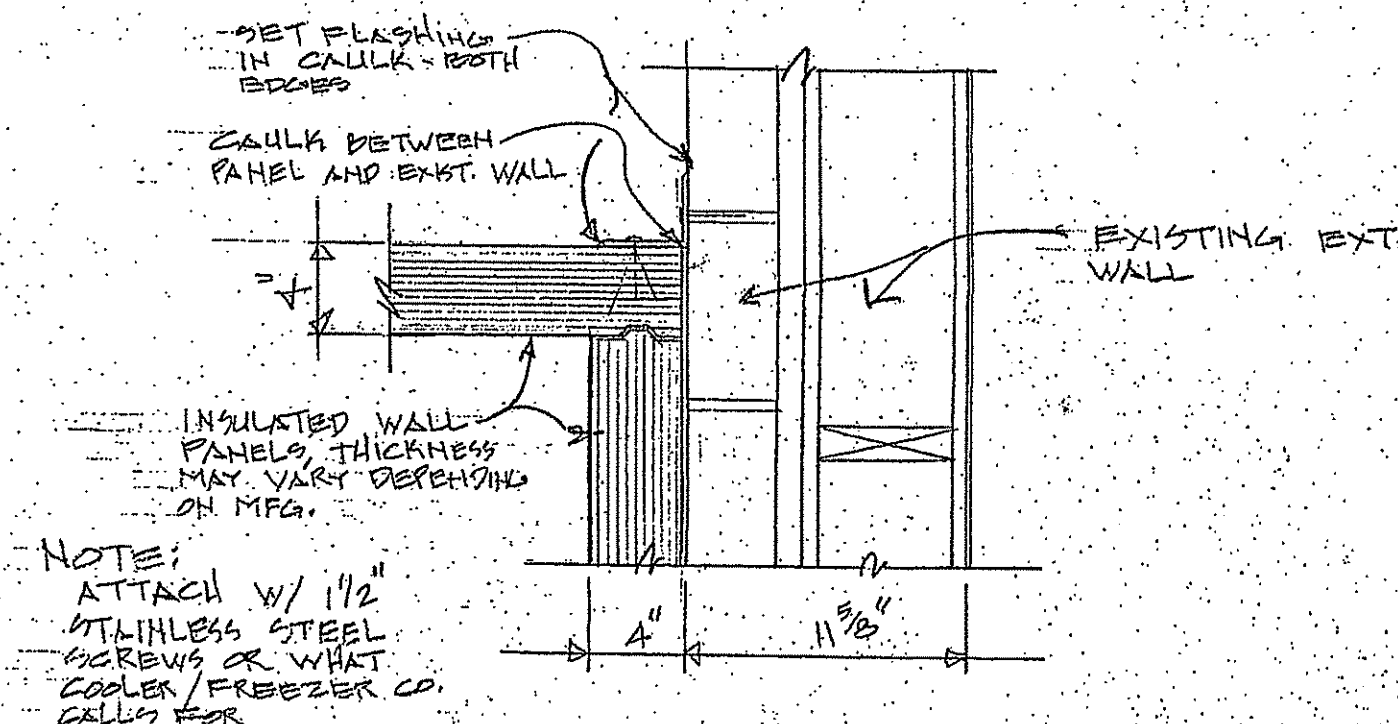
3 COOLER WALL DET.

SCALE: NO SCALE

- Start at the base of the wall by fastening a plate into the top of the walk-in cooler and into the wall of the adjacent building. Make sure at least 8" of material is up the wall for proper termination. Work away from wall fastening 6" on center. The 1-1/2" screws should penetrate the top metal skin of the walk-in top panel.

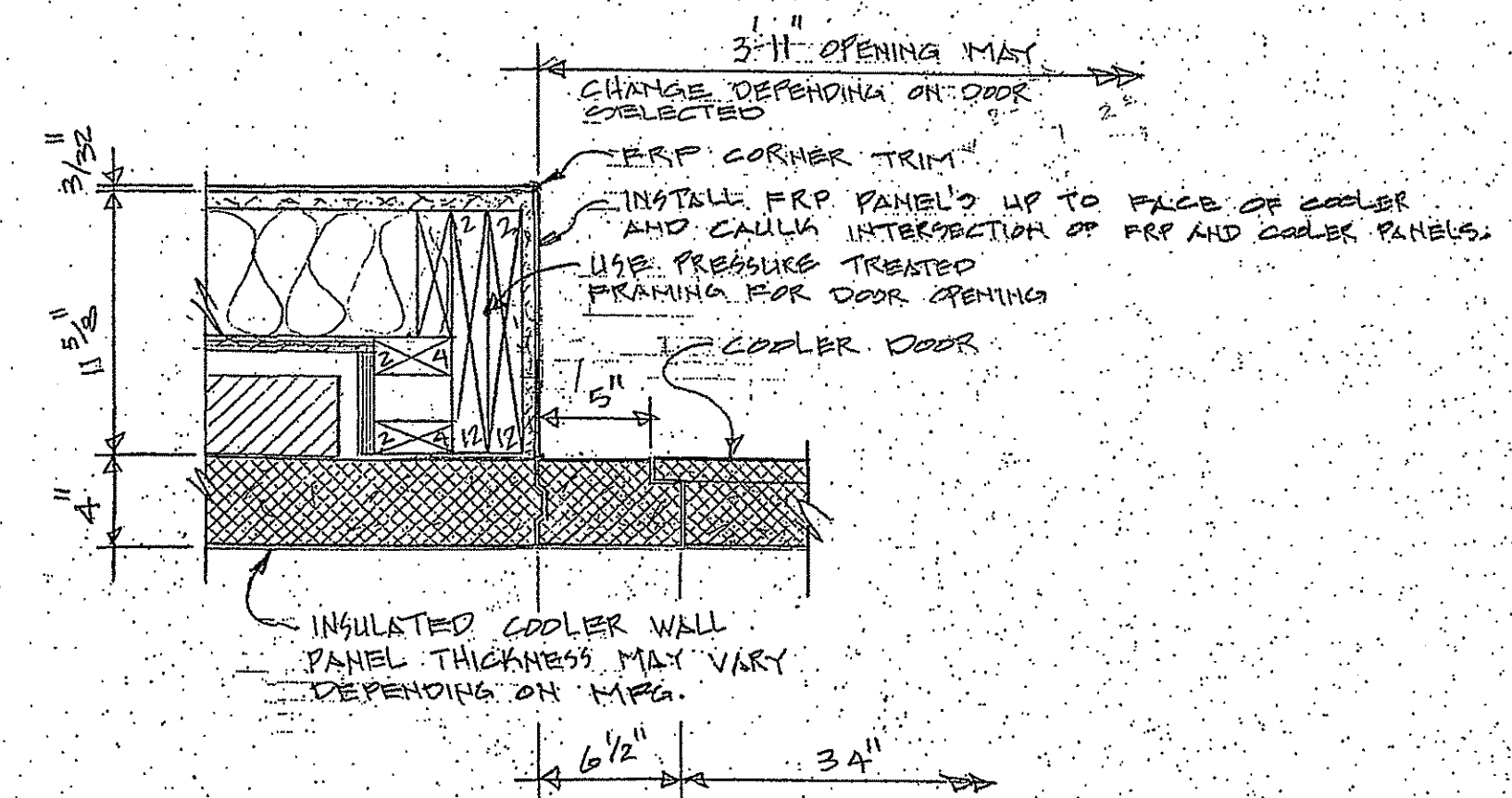


- If tapered roof system is used, the screw length will vary. Install the short screws at the low side and increasingly longer screws toward the high side. Extra care should be taken to only penetrate the top metal skin of the walk-in top panel. Do not penetrate the interior metal skin.
- To prevent "Tab Rollover", temporarily secure the edge of the overhanging roof membrane to the top edge of the wall before continuing to the second tab
- Unroll roof cap membrane to next tab and repeat the screw and fastening plate pattern. Always pull slack out of membrane before starting a row of fasteners. Use of vice grips is ideal to keep material taut.



2 INSIDE CORNER FLASHING DET.

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



1 COOLER / FREEZER DOOR JAMB - HEAD SIM.

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

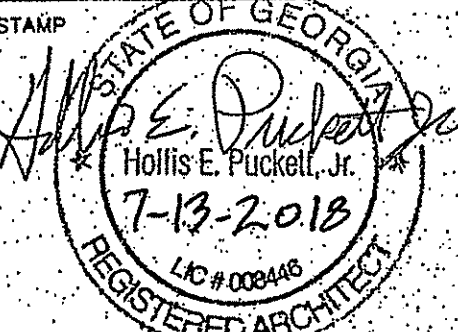
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CELL: 770-513-0802

KEY PLAN



PRINTING AND REVISIONS
MARK DATE DESCRIPTION

HEP PROJECT NUMBER

DRAWN BY

CHECKED BY

DATE RELEASED FOR CONSTRUCTION

FILE NAME

SHEET TITLE

SHEET NUMBER

A-12

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TAG	FIXTURE	CW	HW	WASTE	VENT	SPECIFICATION	MODEL
WC	WATER CLOSET – ACCESSIBLE	1/2"	N/A	4"	2"	FLOOR MOUNTED, 1.28 GPF, TWO PIECE, TANK TYPE, WHITE CHINA, ELONGATED BOWL, COUPLING COMPONENTS, ADA INSTALLATION, SEAT & SUPPLY STOPS	BOWL: ZURN Z5555 SEAT: MAINLINE ML1055 (OPEN)
LAV	LAVATORY – WALL MOUNTED, ACCESSIBLE	1/2"	1/2"	1-1/2"	1-1/4"	WALL-MOUNTED VITREOUS CHINA LAVATORY WITH 4" CENTERSET HOLES, GRID STRAINER, 1-1/4" X 1-1/2" P-TRAP & SUPPLY STOPS. FAUCET: SINGLE HANDLE CENTERSET, CHROME FINISH, WALL HANGER PLATE, 0.5 GPM AERATOR, ADA COMPLIANT INSTALLATION.	SINK: ZURN Z5350 FAUCET: ZURN Z7440-XL-FC (OR EQUALS).
SNK	SERVICE SINK	1/2"	1/2"	3"	2"	FLOOR MOUNTED 24"x24" SERVICE RECEPTOR W/ WALL GUARD, TILING FLANGE, & SPLASH CATCHER PANELS. SERVICE FAUCET WITH VACUUM BREAKER, INTEGRAL STOPS, ADJUSTABLE WALL BRACE, RAIL HOOK, AND HOSE THREAD SPOUT. INCLUDE HOSE WITH HOSE BRACKET, AND MOP HANGER.	SINK: FIAT MSR-2424 FAUCET: FIAT 830-AA ACCESSORIES: FIAT B32-AA & 889-CC (OR EQUALS)
UR	URINAL – ADA	3/4"	N/A	3"	2"	VITREOUS CHINA URINAL WITH 3/4" TOP SPUD, 0.5 GPF FLUSH VALVE, WITH ADA WALL MOUNTED CARRIER	URINAL: KOHLER K-5016-ET FLUSH VALVE: SLOAN 186-0.5
FD	FLOOR DRAIN	N/A	N/A	SEE DWGS	SEE DWGS	6" TYPE B SQUARE ADJUSTABLE STRAINER WITH SATIN NICKEL BRONZE FINISH. PROVIDE WITH TRAP PRIMER.	JR SMITH MODEL 2005 OR EQUAL BY WADE, WATTS, JOSAM, ZURN.
FS	FLOOR SINK	N/A	N/A	SEE DWGS	SEE DWGS	12" SQUARE REMOVABLE GRATE WITH STAINLESS STEEL FINISH, 8" DEEP.	JR SMITH MODEL 3003 OR EQUAL BY WADE, WATTS, JOSAM, ZURN.
WCO	WALL CLEAN OUT	N/A	N/A	N/A	N/A	SHALLOW COVER OR CHROME PLATED BRONZE DEEP COVER WITH CENTER SCREW.	JR SMITH MODEL 4710 OR EQUAL BY WOODFORD, WATTS, OR ZURN
ECO	FLOOR CLEAN OUT	N/A	N/A	N/A	N/A	TAPER THREAD BRONZE PLUG AND ROUND ADJUSTABLE SCORIATED SECURED NICKEL BRONZE TOP.	JR SMITH MODEL 4031 OR EQUAL BY WOODFORD, WATTS, OR ZURN

NOTES:

- COORDINATE EXACT MOUNTING HEIGHT AND LOCATION WITH ARCHITECTURAL DRAWINGS.
- KITCHEN SINKS (HAND, PREP, TRIPLE, ETC.) PROVIDED BY OTHERS AND INSTALLED BY PLUMBING CONTRACTOR.
- DRAINS SHALL BE LOCATED AT LOWEST POINT IN AREA SERVED. COORDINATE EXACT LOCATIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN.
- ALL PLUMBING FIXTURES SHALL BE HIGH EFFICIENCY PER GEORGIA AMENDMENTS TO 2012 IPC (SECTION 202 GENERAL DEFINITIONS).

GAS-FIRED WATER HEATER SCHEDULE											ALL NOTES APPLY		
TAG	MANUFACTURER & MODEL NO.	GAS INPUT (BTUH)	FUEL	THERMAL EFFICIENCY	RECOVERY (100° TEMP. RISE)	FIRST HOUR DELIVERY	DELIVERY TEMPERATURE	STORAGE CAPACITY (GAL.)	VENT SIZE		ELECTRICAL		
									INLET	EXH	VOLT/PH.	MCA	MOCP
GWH-1	LOCHINVAR SNR201-100	199,000	NAT. GAS	95%	233 GPH	305 GAL.	140°F	90	3"	3"	120/1	3	-

NOTES:

- WATER HEATER SHALL MEET ASHRAE 90-75 AND ALL LOCAL CODES AND REQUIREMENTS.
- PROVIDE CONCENTRIC INTAKE/EXHAUST KIT THRU SIDEWALL PER MANUFACTURER'S INSTRUCTIONS (ROOF VENT NOT ALLOWED).
- DIELECTRIC FITTINGS ON INLET AND OUTLET.
- BALL VALVES WITH UNIONS ON WATER INLET AND OUTLET CONNECTIONS.
- CONCENTRIC SIDEWALL VENT.
- MOUNT ON 4" THICK HOUSEKEEPING PAD.

EQUAL PRODUCTS BY:
A.O. SMITH

TAG	MANUFACTURER & MODEL NO.	AREA SERVED	TYPE	FLOW (GPM)		MAX PD AT MAX FLOW	EWT (°F)	LWT (°F)	NOTES
				MIN.	MAX.				
MV-A	LEONARD MODEL 170	HAND SINKS / LAVS	POINT OF USE	0.25	1.7	5	140	105	1,2,3,4
MV-B	LEONARD MODEL 270	KITCHEN SINKS	POINT OF USE	0.25	3.5	5	140	125	1,2,3,4

NOTES:
 1. MOUNT BELOW SINK.
 2. ASSE 1070 CERTIFIED
 3. ASSE 1017 CERTIFIED
 4. TRANSITION TO PIPE SIZES SHOWN AT VALVE INLET/OUTLET.

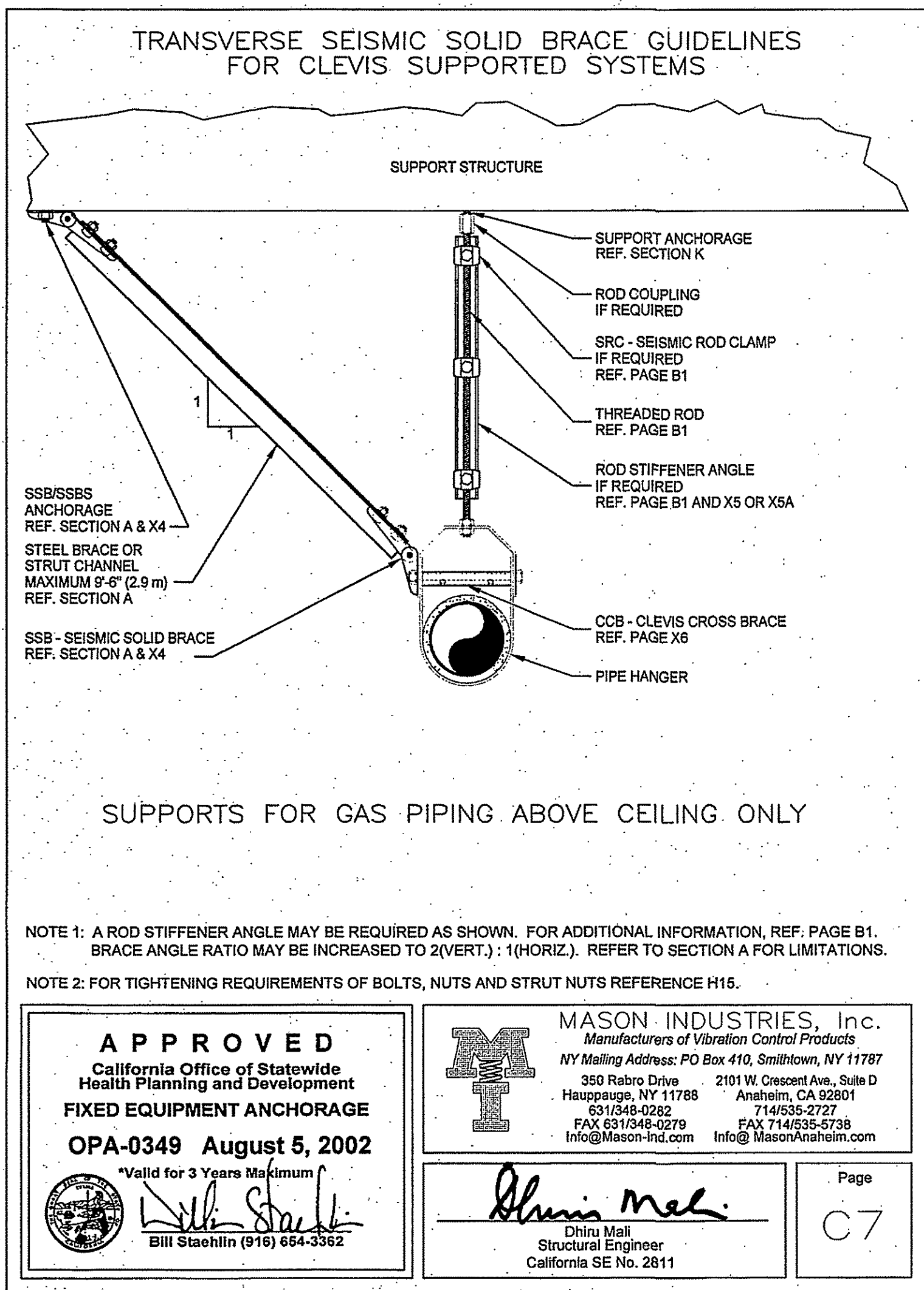
HOT WATER RECIRCULATING PUMP SCHEDULE							
TAG	MANUFACTURER & MODEL NO.	TYPE	HEAD (FT)	GPM	WATTS	VOLT/PH.	
RP-1	BELL & GOSSET NBF-12U	CLOSE-COUPLED INLINE	10	5	90 W	120/1	

NOTES:

1. MOTOR SHALL BE PREMIUM EFFICIENCY.
2. DISCONNECT SWITCH PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR.
3. PUMP CONTROLLED BY AQUASTAT (ADJUSTABLE).

PLUMBING GENERAL NOTES

1. CONTRACTOR SHALL INCLUDE ALL LABOR, MATERIALS, TOOLS, AND EQUIPMENT FOR A COMPLETE AND FUNCTIONAL PLUMBING SYSTEM INCLUDING ALL NECESSARY ACCESSORIES CUSTOMARILY INCLUDED IF NOT SPECIFICALLY CALLED OUT.
2. ALL PLUMBING EQUIPMENT AND WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE 2012 INTERNATIONAL PLUMBING CODE WITH 2014 AND 2015 GEORGIA AMENDMENTS AND ALL APPLICABLE LOCAL CODES, REGULATIONS AND ORDINANCES.
3. THIS IS AN EXISTING FACILITY AND NOT ALL EXISTING DUCT, PIPING, AND EQUIPMENT SHOWN ON THESE DRAWINGS WAS FIELD VERIFIED. IT IS THE CONTRACTORS RESPONSIBILITY TO VISIT THE SITE. VERIFY EXISTING CONDITIONS, DEMOLITION AND NEW WORK PRIOR TO EQUIPMENT AND MATERIALS PURCHASE AND/OR FABRICATION.
4. OBTAIN ALL INSPECTIONS AS REQUIRED BY LAW, ORDINANCES, RULES, REGULATIONS OF AUTHORITIES HAVING JURISDICTION; FURNISH CERTIFICATES OF SUCH INSPECTIONS.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL UTILITY CONNECTIONS.
6. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND MOUNTING HEIGHT OF PLUMBING FIXTURES.
7. INSTALLATION OF ALL FIXTURES, PIPING, AND ACCESSORIES TO BE PER MANUFACTURER'S INSTRUCTIONS.
8. ALL PLUMBING EQUIPMENT AND INSTALLATIONS SHALL BE GUARANTEED FOR A MINIMUM OF ONE YEAR AFTER THE OWNER'S FINAL ACCEPTANCE. ANY DEFECTS IN PRODUCTS, INSTALLATION, OR WORKMANSHIP SHALL BE CORRECTED AT NO ADDITIONAL CHARGE AND SHALL INCLUDE ANY NECESSARY REPAIRS TO WALLS, MILLWORK, ETC. WHICH SHALL BE REPAIRED BACK TO NEW AND FINISHED CONDITION.
9. COORDINATE ELECTRICAL CHARACTERISTICS AND REQUIREMENTS OF ALL PLUMBING EQUIPMENT WITH THE ELECTRICAL CONTRACTOR.
10. COORDINATE PIPING WITH DUCTWORK AND LIGHTING FIXTURES.
11. UNLESS INDICATED OTHERWISE, ALL SANITARY, WASTE, AND RAINWATER PIPING SHOWN ON DRAWINGS IS BELOW FLOOR AND ALL WATER AND VENT PIPING IS CONCEALED ABOVE CEILING OR OVERHEAD.
12. WATER PIPING LOCATED ABOVE CEILING OR IN EXTERIOR WALLS SHALL BE ROUTED ON THE HEATED SIDE (UNDERSIDE) OF CEILING INSULATION AND HEATED SIDE (INSIDE) OF WALL INSULATION.
13. ALL PIPING DROPS IN CHASES AND WALLS ARE TO BE SECURED TO WALLS.
14. ALL PIPING ABOVE GRADE SHALL BE PROPERLY SUPPORTED FROM THE BUILDING STRUCTURE AND SHALL NOT REST ON CEILING TILES OR BE SUPPORTED BY CEILING TILES.
15. SANITARY AND DRAINAGE PIPING 3" AND SMALLER SHALL BE SLOPED AT 1/4" PER FOOT MINIMUM. PIPING 4" AND LARGER SHALL BE SLOPED AT 1/8" PER FOOT MINIMUM.
16. ALL WATER CLOSET FLUSH VALVE LEVERS SHALL BE LOCATED ON THE APPROACH SIDE OF THE WATER CLOSET.
17. VENTS THROUGH ROOF SHALL BE LOCATED A MINIMUM OF 10'0" FROM ANY OUTSIDE AIR INTAKE.
18. ALL PIPING PENETRATIONS OF FIRE AND/OR SMOKE RATED ASSEMBLIES SHALL BE FIRE/SMOKE STOPPED AS REQUIRED TO RESTORE ASSEMBLY TO ORIGINAL INTEGRITY. PROSET "FIRESTOP PENETRATORS" OR APPROVED EQUAL.
19. PROVIDE SHUT-OFF VALVES IN DOMESTIC WATER SYSTEM TO CUT OFF WATER SERVICE MAIN INSIDE BUILDING, AT EACH HYDRANT, AND TO ISOLATE EACH FIXTURE IN THE BUILDING, EXCLUDING BATHTUBS. PROVIDE FULL-OPEN VALVES.
20. PROVIDE CLEANOUT PLUGS AT EACH 90° CHANGE IN DIRECTION AND AT THE LOWEST LEVEL OF ALL SANITARY AND WASTE STACKS. CLEANOUTS SHALL BE PLACED IN READILY ACCESSIBLE LOCATIONS.
21. MOUNT WALL HYDRANTS AND HOSE BIBBS AT 18" AFF/AFG UNLESS NOTED OTHERWISE.
22. CAP ALL OPEN PIPING ENDS DURING CONSTRUCTION TO PREVENT THE ENTRY OF DEBRIS INTO PLUMBING SYSTEMS.
23. PROVIDE WATER HAMMER ARRESTORS AT ALL QUICK CLOSING VALVE CONNECTIONS, SUCH AS WASHING MACHINES, ICE MAKERS, DISHWASHERS, FLUSH VALVES, OR DRINKING FOUNTAINS.
24. PROVIDE TRAP PRIMERS (AUTOMATIC OR WATER SAVER) ON ALL FLOOR AND HUB DRAINS.
25. MATERIALS: PIPE AND FITTINGS - DOMESTIC WATER: INTERIOR: 1" HARD COPPER; CONDENSATE: TYPE 'M' COPPER; WASTE, WASH & DRAIN (ABOVE GROUND INTERIOR): SCHEDULE 40 PVC; WASTE & DRAIN (BELOW GROUND): SCHEDULE 40 PVC OR SERVICE WEIGHT CAST IRON.
26. GAS PIPE SHALL BE SCHEDULE 40 BLACK STEEL ASTM A 53 SEAMLESS OR CONTINUOUS WELD AS MANUFACTURED IN THE UNITED STATES BY KELLY PIPE, LTD, U.S. STEEL, WHEATLAND, OR EQUAL. PIPE THICKNESS SHALL BE IN ACCORDANCE WITH ANSI B36.10, LATEST EDITION. GAS PIPING LARGER THAN 2.5" OR HIGHER THAN 2 PSI SHALL BE WELDED CONSTRUCTION. VALVES 2" AND SMALLER SHALL BE AGA OR UL APPROVED. SHUT OFF VALVES SHALL BE COMPLIANT WITH ASME B16.33.
27. GAS PIPING LOCATED ABOVE CEILING SHALL BE SEISMICALLY RESTRAINED; SEE PIPE HANGER DETAIL.
28. INSULATION: INSULATE COLD WATER PIPING IN UNCONDITIONED SPACES AND ALL HOT WATER PIPING WITH PRE-FORMED FOAM PIPE INSULATION, MOLCOLOR OR EQUAL. INSULATION SHALL HAVE A MINIMUM THICKNESS OF 1" WITH A MINIMUM R-VALUE OF R-4. PIPING 1.5" AND LARGER SHALL BE INSULATED WITH MINIMUM 1.5" THICK INSULATION.
29. INSULATION SHALL NOT BE APPLIED PRIOR TO PRESSURE TESTING.
30. INSULATE ALL EXPOSED PIPING UNDER HANDICAP LAVATORIES WITH TRU-BRO OR EQUAL.
31. ALL PLUMBING EQUIPMENT, PIPING, INSULATION, ETC. LOCATED WITHIN HVAC PLENUM SPACES SHALL MEET CODE REQUIREMENTS FOR SMOKE AND COMBUSTIBILITY.
32. TESTING AND ADJUSTMENTS: UPON COMPLETION OF WORK, TEST PIPING SYSTEMS AS FOLLOWS:
 - A. DOMESTIC HOT AND COLD WATER: 125 PSIG HYDROSTATIC TEST FOR A MINIMUM OF EIGHT (8) HOURS WITHOUT LOSS OF PRESSURE.
 - B. DRAINAGE SYSTEMS INCLUDING SANITARY DRAINAGE, ROOF DRAINAGE, AND SANITARY VENTS: TEST PER LOCAL AUTHORITY AND STATE PLUMBING CODE.

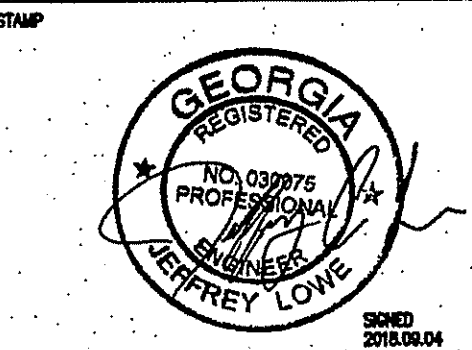


	MASON INDUSTRIES, Inc. <i>Manufacturers of Vibration Control Products</i>	
	NY Mailing Address: PO Box 410, Smithtown, NY 11787	
	350 Rastro Drive Hoopstange, NJ 01778 517/348-0242 Fax 631/348-0279 Info@Mason-Ind.com	2101 W. Crescent Ave., Suite D Anahaim, CA 92801 714/558-0727 Fax 714/535-5738 Info@_Mason-nashaim.com

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HEP ARCHITECTURE
784 EXCHANGE MILL PL. Dacula, GA 30019
CELL: 770-652-6862

KEY PLAN

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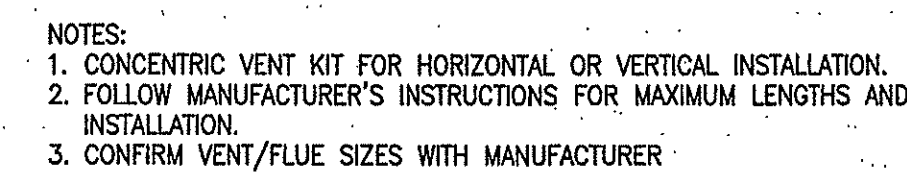
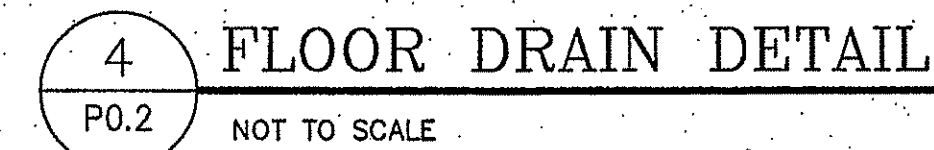
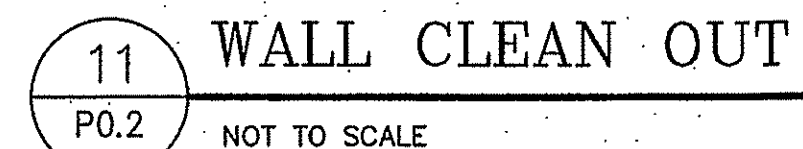
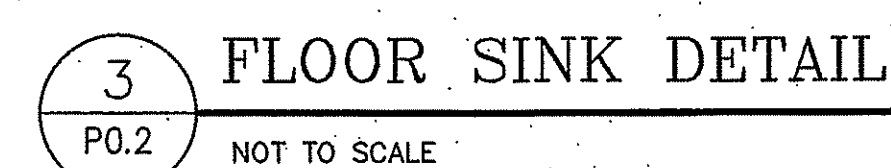
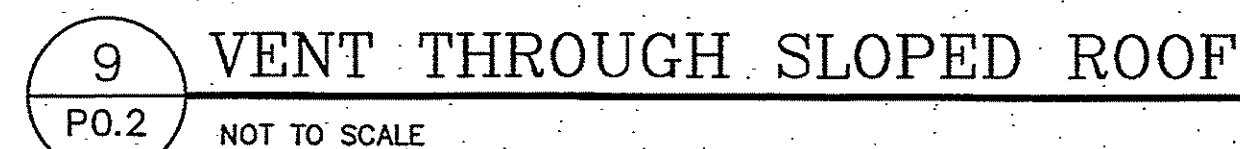
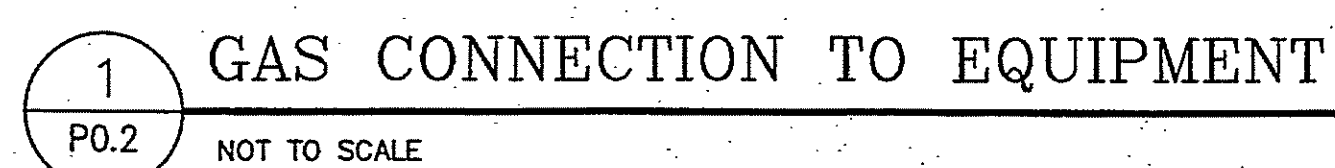
PLUMBING SCHEDULES & NOTES

SHEET NAME

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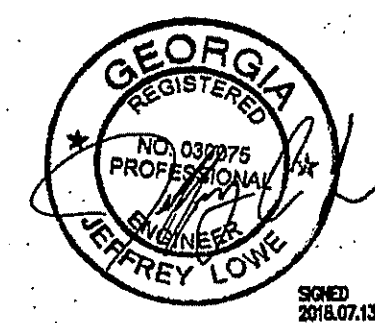
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KEY PL

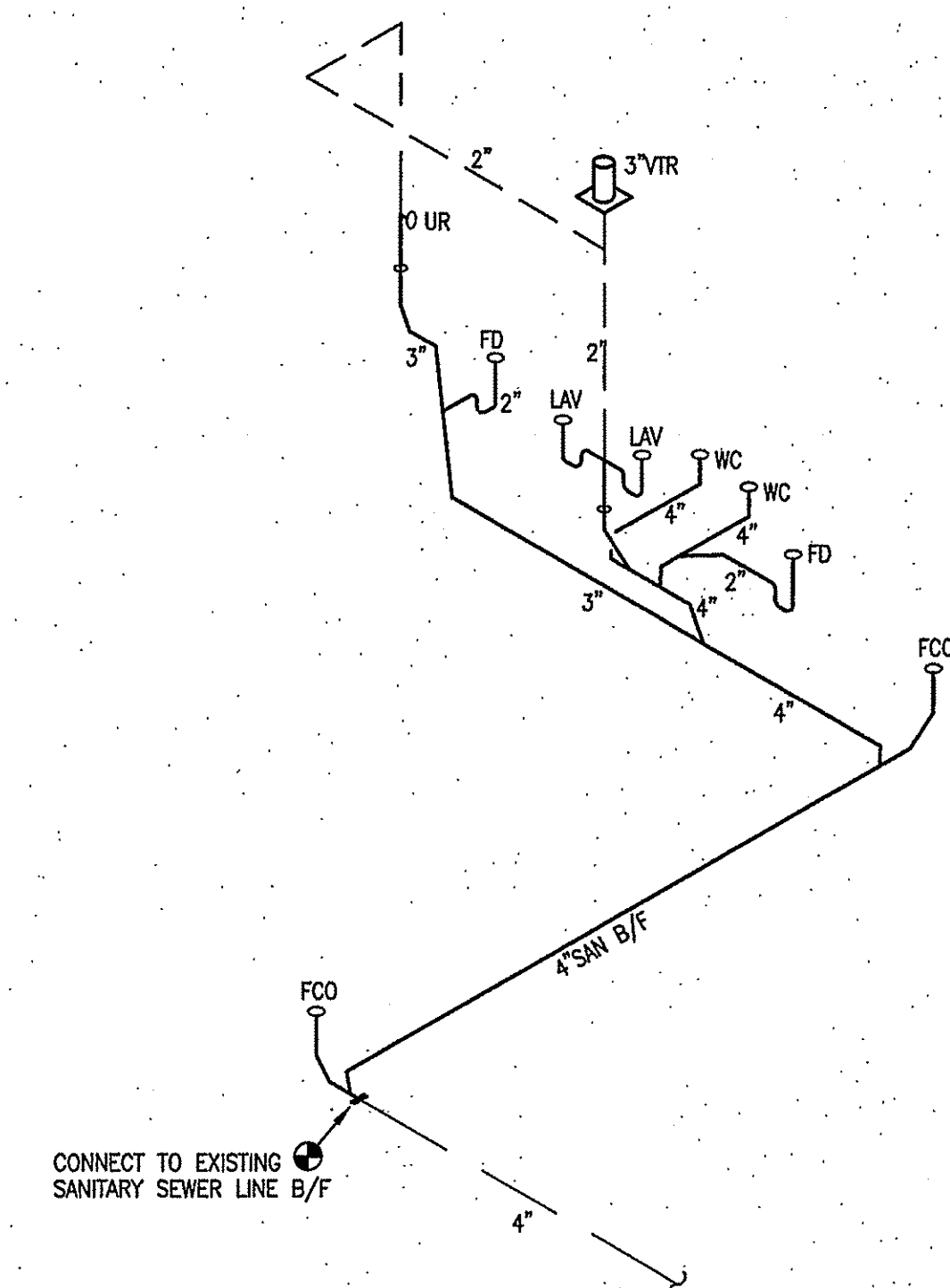
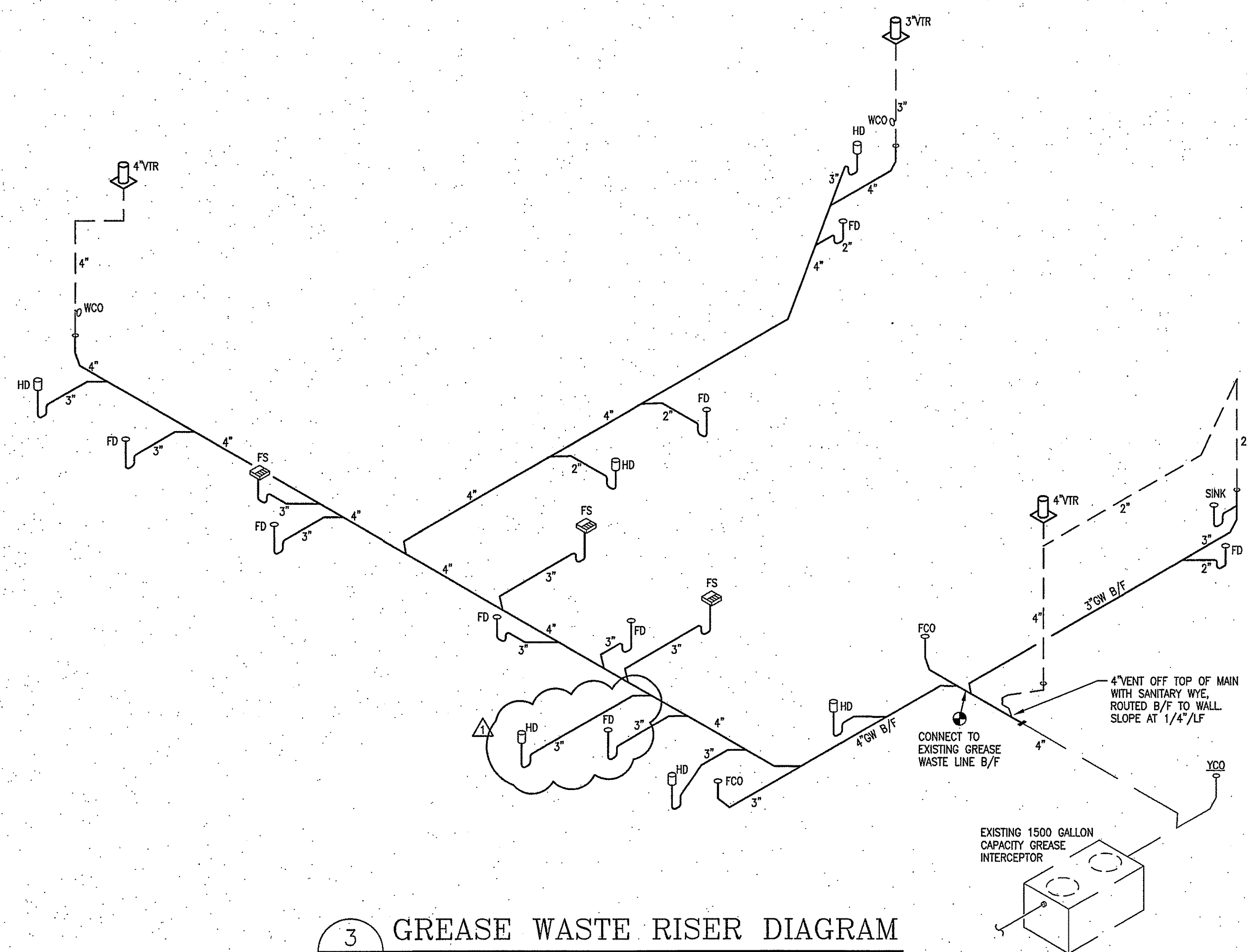
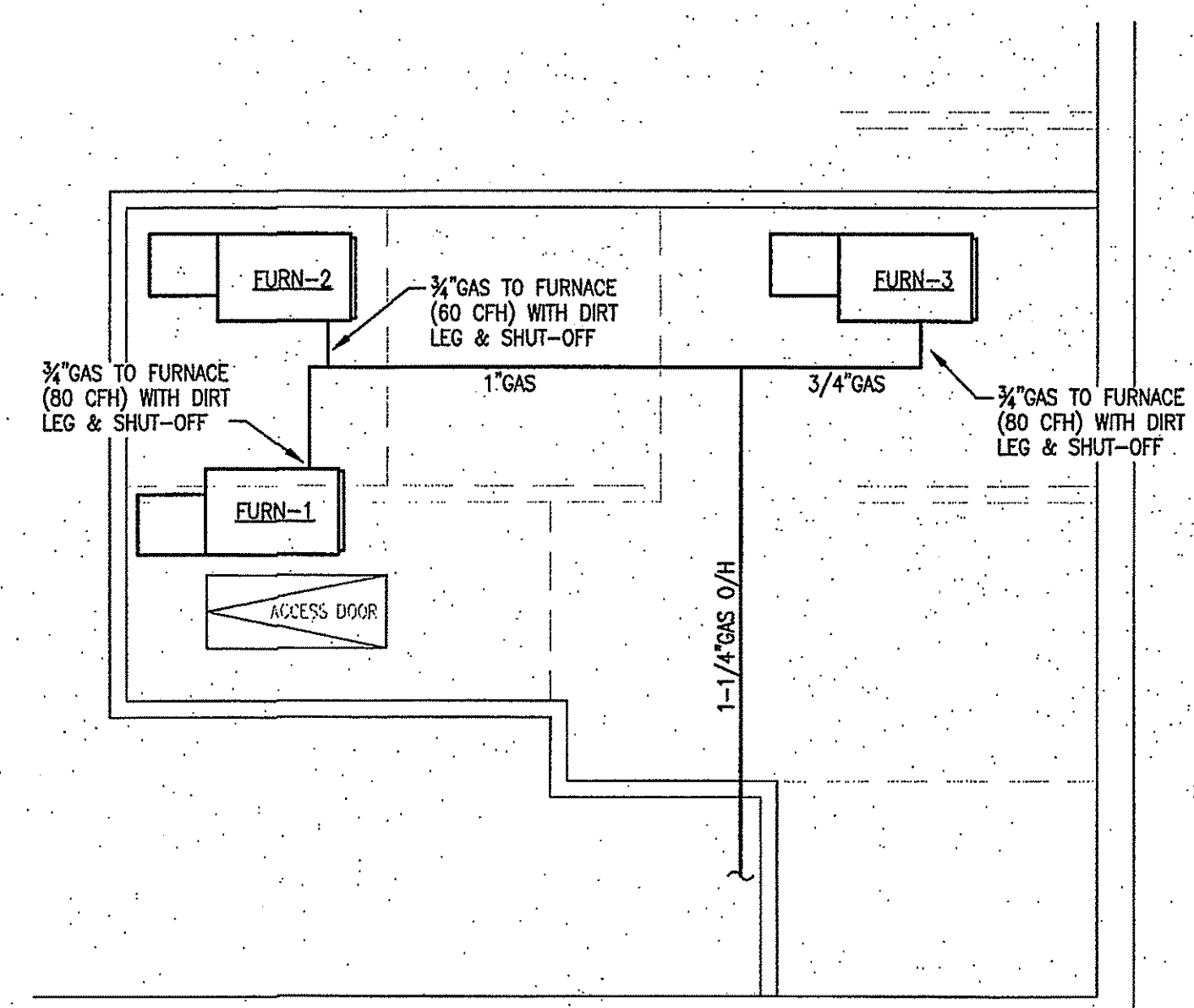
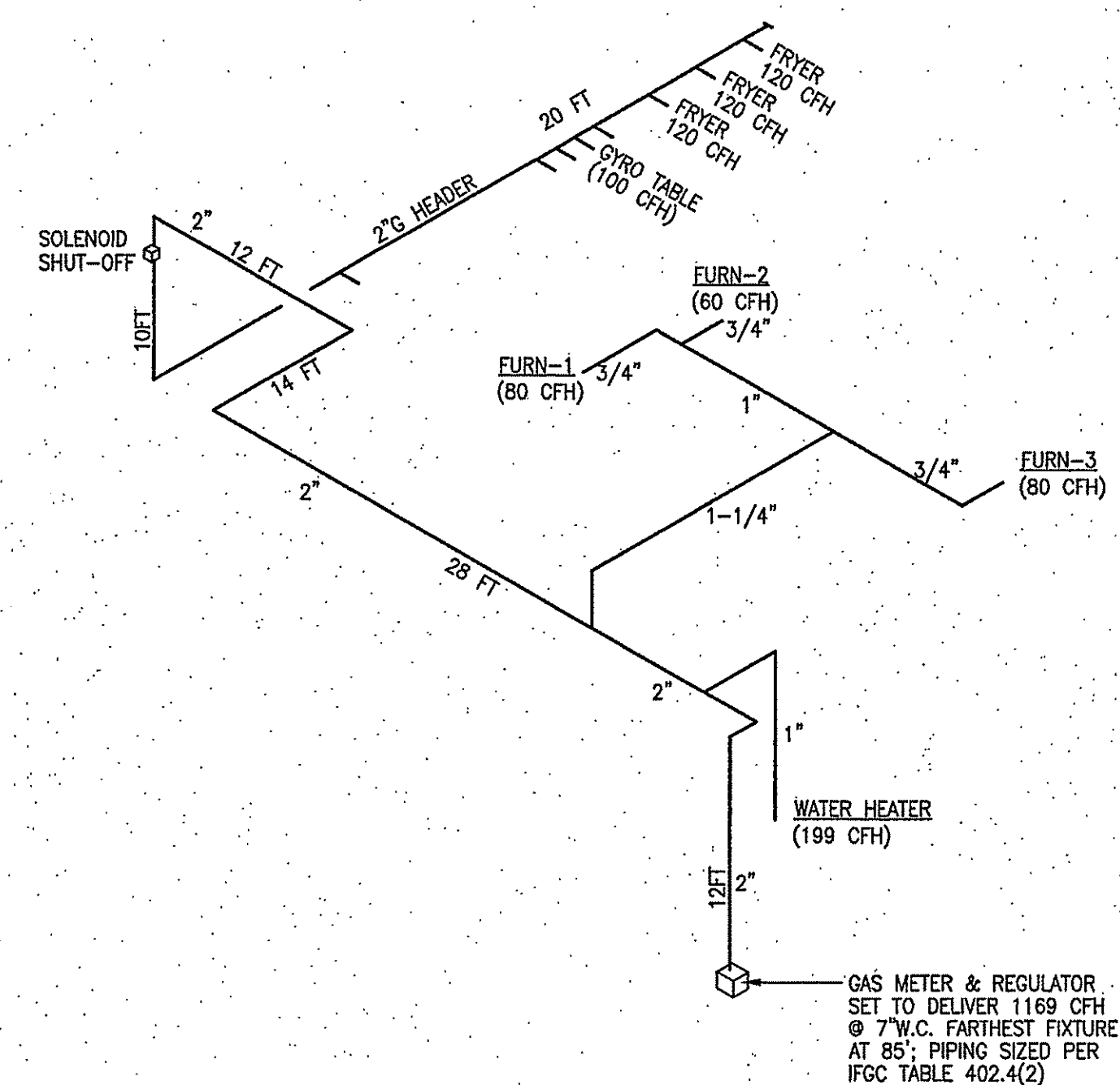
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SHEET TITLE
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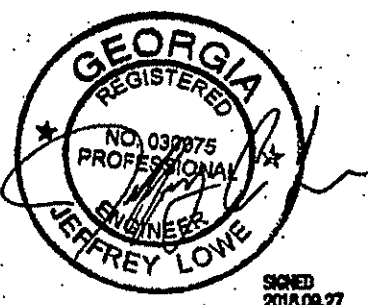


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1. TITLE

PLUMBING RISER DIAGRAMS

NUMBER

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FURNACE / AIR CONDITIONER SCHEDULE

TAG	INDOOR (CARRIER) MODEL #	OUTDOOR (CARRIER) MODEL #	AREA SERVED	NOMINAL TONS	CFM		ESP	FAN HP	COOLING		HEATING		ELECTRICAL						WEIGHT (LBS)		NOTES	ACCESS.	
					TOTAL	OA			TOTAL MBH	SENS. MBH	MIN. SEER	INPUT (MBH)	OUTPUT (MBH)	FURNACE			AIR CONDITIONER			FURN			CU
														VOLT/PH.	MCA	MOCP	VOLT/PH.	MCA	MOCP				
FURN/CU-1	58MCB 80-20	24ACC4-060	KITCHEN	5	2000	300	0.5"	3/4	58.5	44.0	14.0	80.0	74.0	120/1	14.1	20	208/1	27.5	40	220	200	1 THRU 11	1 THRU 7
FURN/CU-2	58MCB 60-16	24ACC4-048	PARTY RM & DINING FRONT	4	1500	300	0.5"	1/2	46.0	32.9	14.0	60.0	55.5	120/1	9.5	15	208/1	20.9	35	220	200	1 THRU 11	1 THRU 7
FURN/CU-3	58MCB 80-20	24ACC4-060	MAIN DINING AND BACK	5	2000	400	0.5"	3/4	58.5	44.0	14.0	80.0	74.0	120/1	14.1	20	208/1	27.5	40	220	200	1 THRU 11	1 THRU 7
NOTES:																							
1. SYSTEM COOLING CAPACITIES BASED ON 95°F AMBIENT CONDITIONS, AND 80°Fdb/67°wb EAT.																							
2. PROVIDE WITH MATCHING CASED COIL.																							
3. DISCONNECT FOR EACH FURNACE FACTORY PROVIDED (SINGLE POINT CONNECTION); DISCONNECT FOR AIR CONDITIONER PROVIDED BY AND INSTALLED BY ELECTRICAL CONTRACTOR.																							
4. SYSTEM SELECTION BASED ON R-410A.																							
5. ESP VALUE DOES NOT INCLUDE COOLING COIL, OR CASING.																							
6. EFFICIENCY VALUE (SEER) IS BASED ON A COMBINED SYSTEM.																							
7. REFRIGERANT LINESETS SHALL BE SIZED PER THE MANUFACTURER'S RECOMMENDATIONS. LINES BETWEEN FCU AND HP SHALL NOT EXCEED 100FT. NOTIFY ENGINEER IF 100FT LIMITATION IS EXCEEDED.																							
8. UNITS PAD-MOUNTED LEVEL ON GROUND.																							
9. STARTERS FOR ALL MOTORS SHALL BE FURNISHED INTEGRAL WITH UNITS.																							
10. SEALED COMBUSTION. MINIMUM AFUE 92%																							
11. PROVIDE PVC CONCENTRIC INTAKE/EXHAUST KIT THRU ROOF PER MANUFACTURER'S INSTRUCTIONS.																							
ACCESSORIES:																							
1. PROVIDE 7-DAY PROGRAMMABLE THERMOSTAT WITH NIGHT SETBACK, AUTO CHANGEOVER FOR HEAT-COOL, WITH 5' DEADBAND BETWEEN HEAT-COOL.																							
2. PROVIDE (2) SETS OF 1" THICK PLATE FILTERS: ONE SET DURING CONSTRUCTION AND ONE SET AFTER CONSTRUCTION COMPLETION. FILTERS SHALL BE MINIMUM MERV 7 RATING.																							
3. SINGLE POINT CONNECTION FOR FURNACE. MANUFACTURER SHALL PROVIDE TRANSFORMER AS NECESSARY FOR BLOWER FAN.																							
4. 5 YEAR COMPRESSOR WARRANTY																							
5. PROVIDE COMPRESSOR SHORT CYCLE PROTECTOR, FILTER DRYER, AND SIGHT GLASS.																							
6. PROVIDE A SMOKE DETECTOR IN THE SUPPLY AIR PLENUM OF AIR HANDLER AS INDICATED ON PLANS. DETECTORS SHALL BE CONNECTED TO THE FIRE ALARM SYSTEM AND SHUT DOWN THE UNITS UPON SMOKE DETECTION. DETECTORS PROVIDED AND WIRED BY ELECTRICAL, INSTALLED BY MECHANICAL.																							
DESIGN BASIS: CARRIER EQUAL PRODUCTS BY: GOODMAN, TRANE																							

NOTES:

- SYSTEM COOLING CAPACITIES BASED ON 95°F AMBIENT CONDITIONS, AND 80°Fdb/67°wb EAT.
- PROVIDE WITH MATCHING CASED COIL.
- DISCONNECT FOR EACH FURNACE FACTORY PROVIDED (SINGLE POINT CONNECTION); DISCONNECT FOR AIR CONDITIONER PROVIDED BY AND INSTALLED BY ELECTRICAL CONTRACTOR.
- SYSTEM SELECTION BASED ON R-410A.
- ESP VALUE DOES NOT INCLUDE COOLING COIL, OR CASING.
- EFFICIENCY VALUE (SEER) IS BASED ON A COMBINED SYSTEM.
- REFRIGERANT LINESETS SHALL BE SIZED PER THE MANUFACTURER'S RECOMMENDATIONS. LINES BETWEEN FCU AND HP SHALL NOT EXCEED 100FT. NOTIFY ENGINEER IF 100FT LIMITATION IS EXCEEDED.
- UNITS PAD-MOUNTED LEVEL ON GROUND.
- STARTERS FOR ALL MOTORS SHALL BE FURNISHED INTEGRAL WITH UNITS.
- SEALED COMBUSTION. MINIMUM AFUE 92%.
- PROVIDE PVC CONCENTRIC INTAKE/EXHAUST KIT THRU ROOF PER MANUFACTURER'S INSTRUCTIONS.

ACCESSORIES:

- PROVIDE 7-DAY PROGRAMMABLE THERMOSTAT WITH NIGHT SETBACK, AUTO CHANGEOVER FOR HEAT-COOL, WITH 5° DEADBAND BETWEEN HEAT-COOL.
- PROVIDE (2) SETS OF 1" THICK PLEATED FILTERS: ONE SET DURING CONSTRUCTION AND ONE SET AFTER CONSTRUCTION COMPLETION. FILTERS SHALL BE MINIMUM MERV 7 RATING.
- SINGLE POINT CONNECTION FOR FURNACE. MANUFACTURER SHALL PROVIDE TRANSFORMER AS NECESSARY FOR BLOWER FAN.
- 5 YEAR COMPRESSOR WARRANTY.
- PROVIDE COMPRESSOR SHORT CYCLE PROTECTOR, FILTER DRYER, AND SIGHT GLASS.
- PROVIDE A SMOKE DETECTOR IN THE SUPPLY AIR PLENUM OF AIR HANDLER AS INDICATED ON PLANS. DETECTORS SHALL BE CONNECTED TO THE FIRE ALARM SYSTEM AND SHUT DOWN THE UNITS UPON SMOKE DETECTION. DETECTORS PROVIDED AND WIRED BY ELECTRICAL, INSTALLED BY MECHANICAL.

DESIGN BASIS: CARRIER
EQUAL PRODUCTS BY:
GOODMAN, TRANE

EXISTING MINI-SPLIT SYSTEM SCHEDULE

TAG	MODEL NUMBER		NOMINAL TONS	TOTAL CFM	FAN HP	COOLING			HEATING			ELECTRICAL			WEIGHT (LBS)		NOTES	ACCESS.
	FAN COIL	HEAT PUMP				CAPACITY (MBH)	RANGE (MBH)	MIN. SEER	CAPACITY (MBH)	RANGE (MBH)	MIN. HPSE	VOLT/PH.	MCA	MOCP	FCU	HP		
DSFC/HP-1	FTXN24NMVJU	RZN24NMVJU	2	579/713	1/4	22	5.1-25.4	15.0	22.0	5.1-25.4	8.2	208/1	18.3	20	27	100	1,2,4,5	1 THRU 5

NOTES:

- THIS IS AN EXISTING SYSTEM IS IN OWNER'S CURRENT LOCATION; SYSTEM WILL BE RELOCATED TO NEW RESTAURANT. COORDINATE EXACT RELOCATION TIMING WITH OWNER.
- SCHEDULED INFORMATION HERE SHOWN FOR REFERENCE ONLY, FIELD VERIFY.
- DISCONNECT PROVIDED BY ELECTRICAL CONTRACTOR; FAN COILS ARE WIRED THROUGH AIR CONDITIONER.
- WALL MOUNTED CASSETTE TYPE FAN COIL UNIT.
- REFRIGERANT LINESETS SHALL BE SIZED PER THE MANUFACTURER'S RECOMMENDATIONS. LINES BETWEEN FCU AND HP SHALL NOT EXCEED 100FT. NOTIFY ENGINEER IF 100FT LIMITATION IS EXCEEDED.

ACCESSORIES:

- PROVIDE WIRED REMOTE CONTROLLER (PROGRAMMABLE THERMOSTAT) WITH NIGHT SETBACK, AUTO CHANGEOVER FOR HEAT-COOL-DRY, WITH 5° DEADBAND BETWEEN HEAT-COOL.
- PROVIDE FILTER DRYER.
- PROVIDE CLEANABLE FILTERS ON FCU.
- INVERTER DRIVEN COMPRESSOR.
- PROVIDE CONDENSATE PUMP.

AIR DISTRIBUTION SCHEDULE

TAG	MODEL	SERVICE	SIZE	CFM	BLOW	CONNECTION SIZE	DESCRIPTION	INTEGRAL BALANCING DAMPER	MATERIAL	NOTES
A	TMS	SUPPLY	24x24	SEE DWGS	4-WAY	NOTE 1	SQUARE CEILING DIFFUSER - 3 CONE MINIMUM	YES	STEEL	1,2,3,4
B	PAS	SUPPLY	24x24	SEE DWGS	4-WAY	NOTE 1	SQUARE PERFORATED DIFFUSER WITH PATTERN CONTROLLER	YES	STEEL	1,2,3,4
C	TDC	SUPPLY	12x12	SEE DWGS	4-WAY	NOTE 1	FLAT, SQUARE LOUVERED CEILING DIFFUSER	YES	ALUM.	1,2,3,4
D	300FS	SUPPLY	SEE DWGS	SEE DWGS	VARIES	NOTE 1	SIDEWALL GRILLE, SHORT FRONT BLADE, DOUBLE DEFLECTION	YES	STEEL	1,2,5
E	350RL	RETURN	SEE DWGS	SEE DWGS	N/A	SEE DWGS	BARs AT 35° ANGLE WITH 3/4" SPACING	NO	STEEL	2,3
F	50F	RETURN	24x24	-	N/A	NOTE 1	1/2"x1/2"x1/2" EGGRATE - AL BORDER, AL FRAME	NO	AL/ST	1,2,3,4

NOTES:

- RUNOUT SIZE SHALL BE EQUAL TO NECK SIZE UNLESS NOTED OTHERWISE ON DRAWINGS.
- GRILLES SHALL HAVE BAKED ENAMEL FINISH.
- GRILLE COLOR SHALL BE WHITE; SUBMIT FINISH CHART WITH SUBMITTALS TO ARCHITECT FOR APPROVAL.
- REFER TO THE ARCHITECTURAL DRAWINGS FOR TYPE OF CEILING.
- GRILLE COLOR TO MATCH EXPOSED SPIRAL DUCT COLOR.

DESIGN BASIS: TITUS EQUAL
PRODUCTS BY: METAL-AIRE,
PRICE, KRUEGER

ELECTRIC DUCT HEATER SCHEDULE

TAG	MANUFACTURER & MODEL NO.	DUCT SIZE	TYPE	MOUNTING	HEATING		CFM	TEMP. RISE	ELECTRICAL			NOTES
					KW	MBH			VOLT/PH.	MCA	MOCP	
EDH-1	QMARK SC-012	20x16	DUCT HEATER	SLIP IN	12	40.9	2300	16°F	208/3	-	-	1 THRU 8
EDH-2	QMARK SC-010	20x16	DUCT HEATER	SLIP IN	12	40.9	2400	16°F	208/3	-	-	1 THRU 8

NOTES:

- PROVIDE INTEGRAL DISCONNECT.
- HOUSING SHALL BE MADE OF GALVANIZED STEEL.
- MINIMUM 2 STAGES OF HEAT.
- PROVIDE PILOT LIGHT AT CONTROL PANEL.
- AIRFLOW PROVING SWITCH.
- HINGED ACCESS DOOR.
- CONTROL POWER TRANSFORMER.
- HEATER SHALL ENERGIZE WHEN OUTSIDE AIR TEMPERATURE IS 50°F OR BELOW.

DESIGN BASIS: QMARK
EQUAL PRODUCTS BY:
BERKO, MARKEL, RAYWALL

WALL LOUVERS

TAG	MAKE & MODEL	DUTY	SIZE WH	FREE AREA, SQ. FT.	CFM	MAX DP @ 700 FPM	TYPE	SCREEN	NOTES
WL-1	GREENHECK ESD-603	INTAKE	48"x42"	7.1	4700	0.08"	STATIONARY FORMED LOUVER	BIRD	1,2,3,4,5
WL-2	GREENHECK ESD-603	INTAKE	30"x24"	2.1	1000	0.07"	STATIONARY FORMED LOUVER	BIRD	1,2,3,4,5
WL-3	GREENHECK ESD-603	EXHAUST	18"x12"	0.71	210	0.07"	STATIONARY FORMED LOUVER	BIRD	1,2,3,4,5

NOTES:

- LOUVERS SHALL BE CAPABLE OF WITHSTANDING A WIND LOAD OR 20 LBS PER SQ. FT.
- UNIT SHALL BE MADE OF ALUMINUM WITH AN ALLOY.
- SCREENS SHALL BE CONTAINED WITHIN A REMOVABLE FRAME.
- UNIT SHALL BE AMCA LICENSED.
- LOUVER SHALL HAVE A BAKED ENAMEL PAINTED FINISH - COLOR SELECTION BY ARCHITECT AT TIME OF SUBMITTALS.

EQUAL BY:
RUSKIN, ARROW

MECHANICAL GENERAL NOTES

- MECHANICAL EQUIPMENT AND INSTALLATIONS SHALL COMPLY WITH THE REQUIREMENTS OF THE 2012 INTERNATIONAL MECHANICAL CODE, AND 2012 INTERNATIONAL BUILDING CODE, AND ALL APPLICABLE LOCAL CODES, ORDINANCES AND REGULATIONS.
- THIS IS AN EXISTING FACILITY AND NOT ALL EXISTING DUCT, PIPING, AND EQUIPMENT SHOWN ON THESE DRAWINGS WAS FIELD VERIFIED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE AND VERIFY EXISTING CONDITIONS, DEMOLITION AND NEW WORK PRIOR TO EQUIPMENT AND MATERIALS PURCHASE AND/OR FABRICATION. CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO THE ARCHITECT/ENGINEER.
- PRIOR TO PURCHASING MATERIALS OR STARTING WORK, THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS, EQUIPMENT SIZES AND LOCATIONS, ETC. SHOWN ON THE DRAWINGS OR AFFECTING THIS WORK. SUBMITTALS AND SHOP DRAWINGS SHALL BE SUBMITTED TO AND APPROVED BY THE ARCHITECT PRIOR TO ORDERING, PURCHASING, OR FABRICATING ANY MECHANICAL EQUIPMENT. SUBMITTALS SHALL INCLUDE: ALL EQUIPMENT SCHEDULED OR SPECIFIED ON THE DRAWINGS. SHOP DRAWINGS SHALL INCLUDE: DUCTWORK DRAWN TO 1/4" SCALE OR SCALE ON DRAWINGS; REFRIGERANT PIPING AND CONTROL WIRING. LONG LINE REFRIGERANT PIPING APPLICATIONS SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S CURRENT SPLIT SYSTEM APPLICATION GUIDELINES.
- REFER TO THE ENTIRE SET OF CONTRACTED DRAWINGS FOR GUIDANCE ON DIMENSIONS, STRUCTURAL COMPONENTS, CEILING HEIGHTS, DOOR SWINGS, AND LOCATIONS OF PIPING OR ELECTRICAL EQUIPMENT.
- ANY EXISTING WALL, FLOOR, OR CEILING SURFACE THAT IS DISTURBED DURING COURSE OF THE HVAC WORK SHALL BE REPAIRED TO MATCH NEW AND/OR EXISTING CONDITIONS.
- SEE STRUCTURAL DRAWINGS FOR HANGING FROM ROOF TRUSSES OR FLOOR JOIST.
- CONTRACTOR SHALL COORDINATE THE ELECTRICAL CHARACTERISTICS AND REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH THE ELECTRICAL CONTRACTOR PRIOR TO ORDERING OR SUBMITTING EQUIPMENT SHOP DRAWINGS, AND SHALL FURNISH EQUIPMENT WIRED FOR THE VOLTAGES SHOWN THEREIN.
- MECHANICAL EQUIPMENT REQUIRING ELECTRICAL POWER SHALL BE INSTALLED WITH THE DISCONNECT SWITCHES AT EACH PIECE OF EQUIPMENT. COORDINATE SWITCH TYPE (FUSED OR NON FUSED) WITH THE MANUFACTURER'S RECOMMENDATIONS, EQUIPMENT CHARACTERISTICS, AND ELECTRICAL DRAWINGS.
- CONTROL WIRING NOT SHOWN OR INDICATED ON ELECTRICAL DRAWINGS SHALL BE INCLUDED AS PART OF MECHANICAL SCOPE OF WORK. WIRING WITHIN HVAC PLENUM SPACES SHALL BE INSTALLED ACCORDING TO CODE REQUIREMENTS.
- UNLESS NOTED OTHERWISE, TRANSFORMERS, CONTROL WIRING, AND STARTERS FOR MECHANICAL EQUIPMENT SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR.
- MECHANICAL EQUIPMENT SHALL BE INSTALLED ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.
- CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL MECHANICAL EQUIPMENT, DUCTWORK AND PIPING TO FIT WITHIN THE SPACE ALLOTTED BY THE ARCHITECTURAL AND STRUCTURAL CONDITIONS. CUTTING OR OTHERWISE ALTERING THE STRUCTURAL MEMBERS SHALL NOT BE PERMITTED WITHOUT WRITTEN PERMISSION FROM THE ARCHITECT.
- MECHANICAL EQUIPMENT AND SYSTEMS SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR AFTER ACCEPTANCE BY OWNER.
- ALL COMPRESSORS SHALL HAVE AN EXTENDED 5-YEAR MANUFACTURER'S WARRANTY.
- THE LOCATIONS OF DIFFUSERS, GRILLES, AND REGISTERS SHOWN ON THE DRAWINGS ARE APPROXIMATE; COORDINATE EXACT LOCATIONS WITH LIGHTS, CEILING EQUIPMENT, ETC.
- MOUNT THERMOSTATS 48" AFF TO CENTERLINE OF CONTROLS UNLESS OTHERWISE NOTED. THERMOSTATS SHALL BE MERCURY-FREE. PROVIDE CLEAR PLASTIC LOCKING COVERS OVER THERMOSTATS IN PUBLIC AREAS.
- ALL MOTOR OPERATED AND MANUAL VOLUME DAMPERS SHALL BE OPPOSED BLADE TYPE.
- PROVIDE (2) SETS OF FILTERS FOR ALL UNITS. FILTERS SHALL BE PLEATED, MINIMUM MERV 7. ONE SET SHALL BE USED DURING CONSTRUCTION AND PRIOR TO OPERATING HVAC SYSTEMS; ONE SET AT TURNOVER. UNIT COILS SHALL BE THOROUGHLY CLEANED PRIOR TO TURNOVER TO OWNER. FOLLOW SMACNA GUIDELINES FOR INDOOR AIR QUALITY UNDER CONSTRUCTION.
- REFRIGERANT PIPING: PIPING SHALL BE TYPE 'L' OR REFRIGERATION SERVICE COPPER TUBING WITH BRAZED JOINTS. SUCTION PIPING SHALL BE INSULATED WITH 1/2" ARMAFLEX, RUBATEX, OR EQUAL PIPE INSULATION; ALL JOINTS AND SEAMS SHALL BE SEALED COMPLETELY WITH ADHESIVE. DO NOT LEAVE SECTIONS OF PIPING UNINSULATED. ALL EXTERIOR INSULATION SHALL HAVE TWO COATS OF WEATHER RESISTANT LIQUID COATING: WB/ARMAFLEX FINISH, FOSTER TITE-FIT COATING, OR AS RECOMMENDED BY THE INSULATION MANUFACTURER.
- REFRIGERANT PIPING ROUTED THROUGH A WALL SHALL BE SLEEVED WITH A GALVANIZED SCHEDULE 10 OR GREATER PIPE. MINIMUM 1/2" LARGER THAN THE INSULATED PIPING. CAULK WALL OPENING AS NECESSARY TO PRESERVE ORIGINAL WALL INTEGRITY.
- CONDENSATE PIPING SHALL BE SCHEDULE 40 PVC, CPVC, OR COPPER; PVC SHALL NOT BE USED IN HVAC PLENUMS. IF CPVC IS USED IN AN HVAC PLENUM SPACE, PIPE SHALL BE RATED FOR THE FOLLOWING CHARACTERISTICS: NON-COMBUSTIBLE FLAME AND SMOKE DEVELOPED RATING OF 25/50 WITHOUT BEING WATER FILLED. HORIZONTAL COPPER PIPE SHALL BE INSULATED WITH 1/2" THICK FIBERGLASS OR ELASTOMERIC PIPE INSULATION EQUAL TO RUBATEX. CONDENSATE SHALL BE PUMPED AS REQUIRED.
- RATED ASSEMBLY PENETRATIONS: WHERE DUCTWORK AND PIPING PASS THROUGH FIRE-RATED OR SMOKE-RATED ASSEMBLIES, CONTRACTOR SHALL MAINTAIN THE INTEGRITY OF THE RATED ASSEMBLY USING U.L. APPROVED SEALING METHODS. REFER TO ARCHITECTURAL DRAWINGS FOR ASSEMBLY (WALLS, CEILINGS, ETC.) RATING.
- FIRE DAMPERS: DAMPERS SHALL MEET THE RATING OF THE WALL, AND BE TYPE B (BLADES OUTSIDE OF AIRSTREAM) UNLESS NOTED OTHERWISE. PROVIDE DUCT AND WALL/CEILING ACCESS PANELS FOR ALL DAMPERS NOT ACCESSIBLE.
- FIRE BARRIER PRODUCTS SHALL BE AS MANUFACTURED BY 3M COMPANY TYPE CP25 CAULK, CS195 COMPOSITE PANEL, FS195 WRAP/STRIP, OR PSS 7900 SERIES SYSTEM AS RECOMMENDED BY MANUFACTURER FOR APPLICATION TYPE. PRODUCTS SHALL BE APPROVED BY LOCAL CODE OFFICIALS.
- TEST AND BALANCE: AFTER CONSTRUCTION, THE ENTIRE HVAC SYSTEM, INCLUDING EXHAUST AND RETURN AIR SYSTEMS SHALL BE TESTED, ADJUSTED, AND BALANCED TO DELIVER THE AIR QUANTITIES SHOWN ON DRAWINGS. EXHAUST AND RETURN SYSTEMS UNDER NEGATIVE PRESSURE SHALL NOT EXCEED SCHEDULED VALUES BY MORE THAN 10% AT EACH FAN OR EACH INLET. THE TEST AND BALANCE SHALL BE PERFORMED BY AN ABC OR NEBB CERTIFIED TEST AND BALANCE CONTRACTOR THAT CANNOT BE AFFILIATED WITH THE INSTALLING MECHANICAL CONTRACTOR.
- DUCTWORK: SUPPLY, RETURN, OUTSIDE AND EXHAUST DUCT SHALL BE CONSTRUCTED OF GALVANIZED SHEET METAL PER SMACNA HVAC CONSTRUCTION STANDARDS. ALL JOINTS AND SEAMS SHALL BE SEALED WITH DUCT SEALER, UL LISTED 181A OR 181B FOR TAPES AND MASTICS. USE OF DUCT TAPE IS NOT ALLOWED.
- DUCTWORK STANDARDS: ALL DUCT SHALL BE CONSTRUCTED BY THE GUIDELINES OF SMACNA CURRENT EDITION. DUCT AND EQUIPMENT SHALL BE SUPPORTED BY THE STRUCTURE AND NOT REST ON CEILING TILES OR CEILING STRUCTURE.
- FLEXIBLE DUCTWORK SHALL BE THE INSULATED TYPE (R = 6) CLASS I AIR DUCT, UL 181 LISTED, THERMAFLEX OR EQUAL. DUCT SHALL BE SIZED AT 0.08"/100 FT STATIC PRESSURE DROP WHERE A SIZE IS NOT NOTED ON DRAWINGS. FLEXIBLE DUCTWORK SHALL BE INSTALLED AS STRAIGHT AS POSSIBLE, AND SHALL BE ROUTED AND SUPPORTED WITHOUT FORMING CRIMPS OR OTHER AIR FLOW RESTRICTIONS. PROVIDE SQUARE TO ROUND ADAPTERS OR BOOTS TO CONNECT TO AIR DEVICE NECK WHEN REQUIRED. DUCTWORK IN ATTIC SPACES SHALL HAVE MINIMUM R-8 VALUE.
- SHEETMETAL DUCT INSULATION: FIBERGLASS DUCT WRAP, WITH FOIL FACED VAPOR BARRIER, U.L. LISTED. GLASS FIBERS BONDED WITH A THERMOSETTING RESIN. COMPLY WITH ASTM C 553, TYPE II, WITHOUT FACING AND WITH ALL-SERVICE JACKET MANUFACTURED FROM KRAFT PAPER, REINFORCING SCRM, ALUMINUM FOIL, AND VINYL FILM: JOHNS MANVILLE, OWENS CORNING, OR EQUAL. IF DUCTWORK SUPPORT STRAPS ARE ATTACHED TO THE DUCT, THEN LOCATE STRAPS INSIDE THE INSULATION AND SEAL WITH MASTIC AT PUNCTURE. ALL PUNCTURES (STAPLES) AND PENETRATIONS IN THE FOIL VAPOR BARRIER SHALL BE SEALED AIRTIGHT WITH FOIL TAPE AND/OR MASTIC. MASTIC MUST BE APPLIED THICK ENOUGH TO COMPLETELY COVER STAPLES. PERIMETER JOINTS SHALL BE FORMED SUCH THAT THE INSULATION ON THE TOP OF THE DUCT OVERLAPS THE INSULATION ON THE SIDES AND THE SIDES OVERLAP THE BOTTOM. DO NOT COMPRESS THE INSULATION WITH SUPPORTS (STRAPS, HANGERS, ETC.). INSULATION IN ATTIC SPACES SHALL HAVE MINIMUM R-8 VALUE.
- KITCHEN HOOD EXHAUST DUCTWORK - DUCTWORK CONNECTING KITCHEN EXHAUST HOODS TO EXHAUST FANS SHALL BE CONSTRUCTED OF 16 GAUGE BLACK STEEL OR 18 GAUGE STAINLESS STEEL, OR A LISTED AND FACTORY LABELED EQUIVALENT. ALL GREASE EXHAUST DUCTWORK SHALL BE CONSTRUCTED AND INSTALLED ACCORDING TO REQUIREMENTS OF LOCAL CODE AUTHORITIES AND NFPA 96 REQUIREMENTS. BLACK STEEL SHALL BE PAINTED WITH A GALVANIZED (ZINC) COATING OR CORROSION RESISTANT PAINT.
- KITCHEN HOOD EXHAUST ACCESS DOORS: INSTALL RATED, GASKETED ACCESS DOORS AT EACH CHANGE OF DIRECTION. INSTALL GASKETED ACCESS DOORS/CLEAN-OUTS AS SHOWN ON PLANS. GREASE DUCT CLEAN-OUTS SHALL BE LOCATED ON THE SIDE OF THE DUCT WITH THE OPENING NOT LESS THAN 1.5" ABOVE THE BOTTOM OF THE DUCT AND NOT LESS THAN 1" BELOW THE TOP OF THE DUCT. THE WIDE DIMENSION SHALL BE 12" MINIMUM. CLEAN-OUT SHALL BE EQUIPPED WITH A TIGHT FITTING DOOR HAVING A THICKNESS EQUAL TO THE DUCTWORK. DOOR SHALL HAVE A METHOD OF LATCHING THAT DOES NOT REQUIRE TOOLS TO OPEN.
- KITCHEN HOOD EXHAUST INSULATION - INSULATE EXHAUST DUCT WITH INSULATION HAVING THE FOLLOWING CHARACTERISTICS: MIN. 1.5 LB/CU. FT., FIBERGLASS FOIL FACED (FRK), CAPABLE OF BEING USED ON SURFACES WITH TEMPERATURES OVER 450°F, FLAME SPREAD 25 OR LESS, DEVELOPED SMOKE SPREAD OF 50 OR LESS. OWENS CORNING TYPE 701 INSULATION OR EQUAL. CLEANOUTS FOR DUCT SHALL BE COVERED BY ENCLOSURE AND HAVE AN INSULATION OVERLAP OF 3" OR AS REQUIRED; REFER TO MANUFACTURER'S INSTRUCTIONS. MAINTAIN 18" CLEAR FROM COMBUSTIBLE PRODUCTS / CONSTRUCTION AND MAINTAIN MINIMUM 6" CLEAR FROM PRODUCTS / CONSTRUCTION WITH LIMITED COMBUSTIBILITY. CONTACT ARCHITECT IF A PRODUCT IS QUESTIONABLE AS TO THE DEGREE OF COMBUSTION. IF COMBUSTIBLE PRODUCTS ARE UNAVOIDABLE, WRAP DUCT WITH INSULATION HAVING THE FOLLOWING CHARACTERISTICS: 3" THICK (OR AS REQUIRED FOR 2 HOUR RATING), AND LISTED FOR UL AND NFPA 96 ZERO CLEARANCE TO COMBUSTIBLES. INSTALL PER MANUFACTURER'S INSTRUCTIONS INCLUDING THE PROPER CEMENT. SUPER FIRETEMP GREASE DUCT ENCLOSURE BY JOHNS MANVILLE OR EQUAL. CLEANOUTS FOR DUCT SHALL HAVE A RATED ACCESS DOOR OR FABRICATE ONE AS INDICATED BY INSULATION MANUFACTURER. REFER TO ALL MANUFACTURER'S INSTALLATION INSTRUCTIONS AND DIAGRAMS. ALL GREASE DUCT SHALL SLOPE TOWARDS THE HOOD A MINIMUM OF 1/4" PER LINEAR FOOT.
- EXHAUST DUCT FOR TYPE II HOODS - DUCT SHALL BE MINIMUM 22 GAUGE GALVANIZED SHEET METAL OR MINIMUM 24 GAUGE STAINLESS STEEL SHEET METAL PER IMC. DUCT JOINTS AND SEAMS SHALL BE SEALED WATER TIGHT. SLOPE HORIZONTAL SECTIONS OF DUCT TOWARDS HOOD AT 1/4" PER LINEAR FOOT.
- DIMENSIONS SHOWN ON DRAWINGS FOR DUCTWORK ARE INSIDE CLEAR. FIELD VERIFY ALL DIMENSIONS BEFORE FABRICATING DUCTWORK.
- DUCT ACCESS DOOR SHALL BE AS INDICATED ON DRAWINGS WITH THE FOLLOWING CHARACTERISTICS: CLOSED CELL NEOPRENE GASKET BONDED TO DOOR, INSULATED BETWEEN INNER AND OUTER DOORS, AND TESTED TO 2" W.C. MANUFACTURED BY UNITED MCGILL OR EQUAL.
- ROOF ASSOCIATED WORK SHALL BE DONE BY THE OWNER/LANDLORD'S APPROVED ROOFING CONTRACTOR. COORDINATE WITH OWNER/LANDLORD PRIOR TO START OF WORK.

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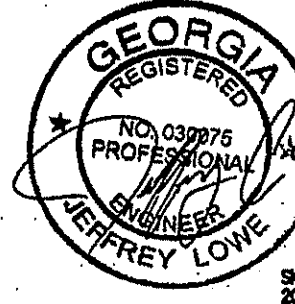
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STAMP



KEY PLAN

MARK DATE DESCRIPTION

DRAWN BY J.L.

CHECKED BY J.L.

DATE RELEASED FOR CONSTRUCTION

FILE NAME

SHEET TITLE

MECHANICAL NO
& SCHEDULES

SHEET NUMBER

M0.1

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FAN SCHEDULE													
TAG	MAKE & MODEL	TYPE	DUTY	CFM	ESP	MOTOR	FAN SPEED (RPM)	DRIVE	VOLTAGE	INLET SONES	WEIGHT (LBS)	NOTES	CONTROLS
EF-1,2,3	GREENHECK SP-B90	CEILING EXHAUST	TOILET, JAN. EXHAUST	70	0.15"	50W	900	DIRECT	120/1	2.0	12	1	A
KEF-1	GREENHECK USGF-180	CENTRIFUGAL UPBLAST	KITCHEN HOOD H-1 EXHAUST	2800	1.1"	1 HP	1144	BELT	208/1	15	300	3-12	B
KEF-2	GREENHECK USGF-180	CENTRIFUGAL UPBLAST	KITCHEN HOOD H-2 EXHAUST	2800	1.1"	1 HP	1144	BELT	208/1	15	300	3-12	B
KEF-3	GREENHECK SP-B150	CEILING EXHAUST	DISHWASHER EXHAUST	150	0.2"	90W	1050	DIRECT	120/1	4.0	10	1,2,12	D
KSF-1	GREENHECK SQ-140-VG	CABINET, INLINE	KITCHEN HOOD H-1 MAKE-UP AIR	2300	0.6"	3/4 HP	1450	DIRECT	120/1	14	100	1,2,11,12,13	B
KSF-2	GREENHECK SQ-140-VG	CABINET, INLINE	KITCHEN HOOD H-2 MAKE-UP AIR	2400	0.6"	3/4 HP	1494	DIRECT	120/1	15	100	1,2,11,12,13	B
FF-1,2	MARS LPN242-1UA-OB	AIR CURTAIN	KITCHEN EXTERIOR DOOR FLY FAN	1050	-	1/6 HP	-	DIRECT	120/1	12	25	14,15	C

NOTES:

- BACKDRAFT DAMPER AT FAN DISCHARGE
- PROVIDE SPEED CONTROLLER FOR BALANCING
- CONSTRUCTION SHALL BE UL782 AND NFPA 96 COMPLIANT.
- FAN PERFORMANCE RATED AT 300°F
- NEMA-3R COMBINATION STARTER/DISCONNECT SWITCH BY FACTORY.
- BEARINGS WITH GREASE FITTINGS
- EXTENDED LUBE LINES.
- GREASE TRAP WITH DRAIN CONNECTION
- HEAT BAFFLE

- 18" NON-COMBUSTIBLE ROOF CURB FOR SLOPED METAL ROOF. ROOF PITCH IS ROUGHLY 6/12, FIELD VERIFY EXACT SLOPE PRIOR TO ORDERING CURB.
- SONE VALUES ARE VALUES MEASURED 5 FT FROM THE FAN - OPEN ENDED. SONE VALUES MUST NOT EXCEED SCHEDULED AMOUNT BY MORE THAN 10%.
- FAN SHALL BE AMCA CERTIFIED FOR SOUND AND PERFORMANCE AND SHALL BE UL LISTED.
- SUSPENDED FROM STRUCTURE
- ETL SANITATION CERTIFIED TO ANSI/NSF37.
- WALL MOUNTING BRACKET FOR MOUNTING OVER DOOR; INSTALL BOTTOM OF FAN WITHIN 1" OF TOP OF DOOR.

CONTROLS:

- FAN CONTROLLED BY WALL SWITCH ADJACENT TO LIGHT SWITCH.
- INTERLOCK WITH KITCHEN HOOD CONTROLS (SEE HOOD SCHEDULE).
- FAN ENERGIZES WITH DOOR PROVING SWITCH
- FAN CONTROLLED BY HUMIDITY SENSOR.

DESIGN BASIS: GREENHECK
EQUAL BY: ACCUREX, RUPP,
GREASEMASTER

KITCHEN HOOD

ALL NOTES & ACCESSORIES APPLY

TAG	MANUFACTURER & MODEL NO.	TYPE	CONFIGURATION	HOOD DIMENSIONS			EXHAUST AIR FLOW			SUPPLY AIR FLOW				WEIGHT (LBS)		
				LENGTH	WIDTH	HEIGHT	CFM	S.P.	COLLARS	FRONT SUPPLY		RIGHT SUPPLY				
H-1	GREENHECK GHEW	TYPE 1, GREASE HOOD	WALL CANOPY	120"	48"	24"	2800	0.7"	(1) 24x10	2300	0.25"	(3) 14x16	-	-	400	
H-2	GREENHECK GHEW	TYPE 1, GREASE HOOD	WALL CANOPY	120"	48"	24"	2800	0.7"	(1) 24x10	1800	0.2"	(3) 14x14	600	0.15"	(1) 10x18	400

NOTES:

1. HOOD AND ENTIRE INSTALLATION SHALL CONFORM TO NFPA 96.

2. HOOD SHALL BE UL 710 LISTED WITHOUT EXHAUST FIRE DAMPERS.

3. BACK INTEGRAL AIR SPACE - 3" WIDE.

4. FACTORY MOUNTED EXHAUST COLLARS.

5. INCLUDES PERFORMANCE ENHANCING LIP (PEL) TECHNOLOGY.

6. STANDING SEAM CONSTRUCTION FOR SUPERIOR STRENGTH

7. TYPE 430 STAINLESS STEEL WHERE EXPOSED.

8. EXHAUST AIR BALANCING BAFFLES (EABB): STAINLESS STEEL 20" HIGH.

9. EMBOSSED STAINLESS STEEL FINISH FOR HIGH CORROSION RESISTANCE.

10. GREASE CUP

11. RATED TO 600°F.

CONTROLS:

A. CONTROL PANEL MOUNTED ON FACE OF HOOD. HOOD SECTIONS SHALL ACT AS ONE HOOD, CONTROLS SHALL ENERGIZE FANS KEF-1&2, KSF-1&2.

B. INTERLOCK TEMPERATURE SENSOR TO ACTIVATE FANS AUTOMATICALLY.

C. LOCATE PULL STATION FOR FIRE PROTECTION SYSTEM. A MINIMUM OF 10 FT AND MAXIMUM OF 20 FT FROM THE FRONT OF THE HOOD.

D. PROVIDE SOLENOID VALVE IN GAS SUPPLY TO APPLIANCES LOCATED UNDER HOOD. INTERLOCK WITH FIRE PROTECTION SYSTEM.

ACCESSORIES:

1. PROVIDE AN APPROVED AUTOMATIC FIRE SUPPRESSION SYSTEM COMPLYING WITH 2012 IBC & IFC (PER IMC 509.1).

2. 12" DEEP FIRE PROTECTION CABINET ON LEFT SIDE OF HOOD.

3. EXTERNAL AIR CURTAIN TYPE SUPPLY PLENUMS: FRONT 24" DEEP & 14" DEEP ON RIGHT SIDE. SEE HOOD PLAN FOR DIMENSIONS.

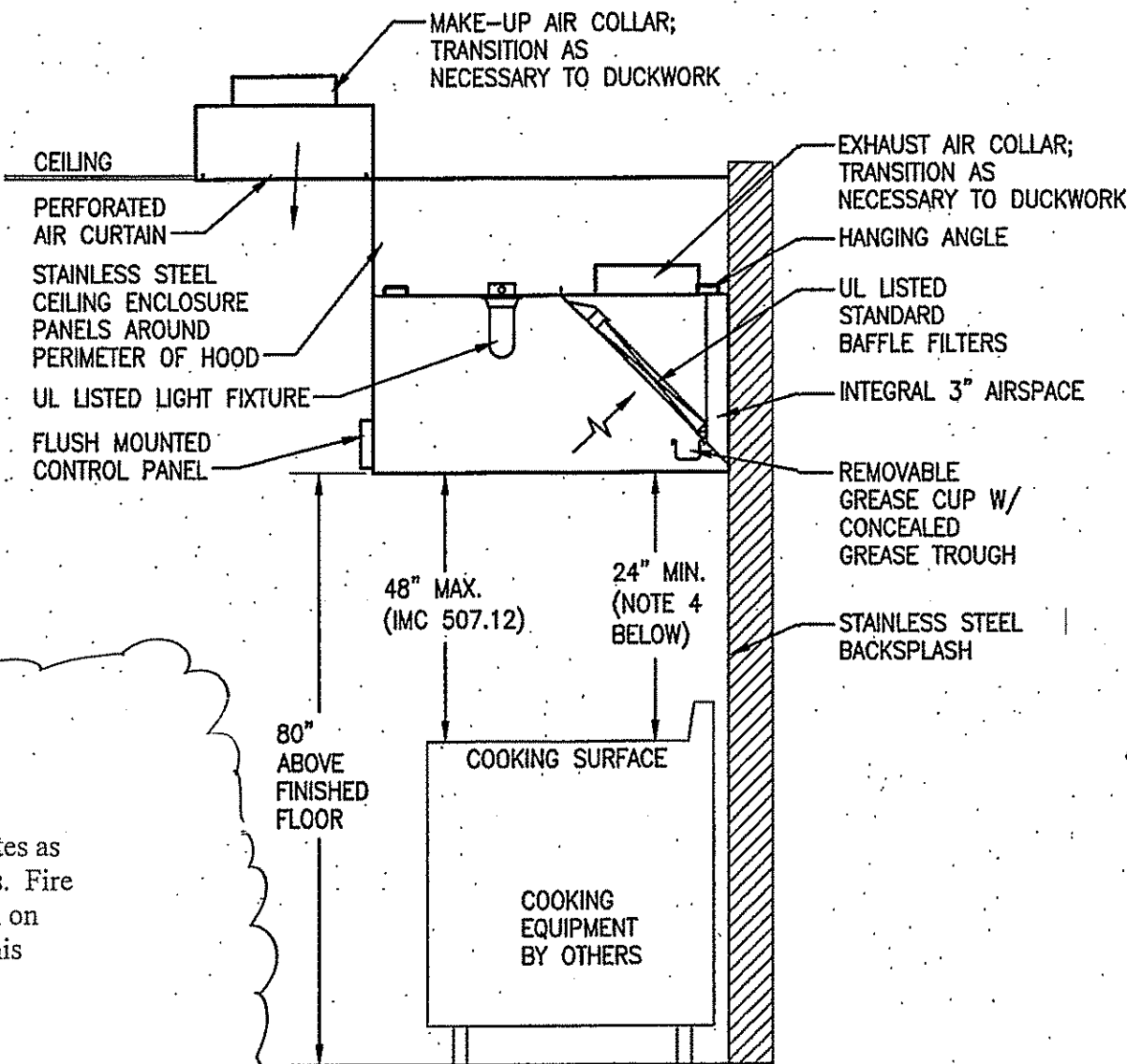
4. VAPOR PROOF INCANDESCENT 100W BULBS.

5. TEMPERATURE INTERLOCK SENSOR.

6. ENCLOSURE PANEL ABOVE HOOD (10' CEILINGS).

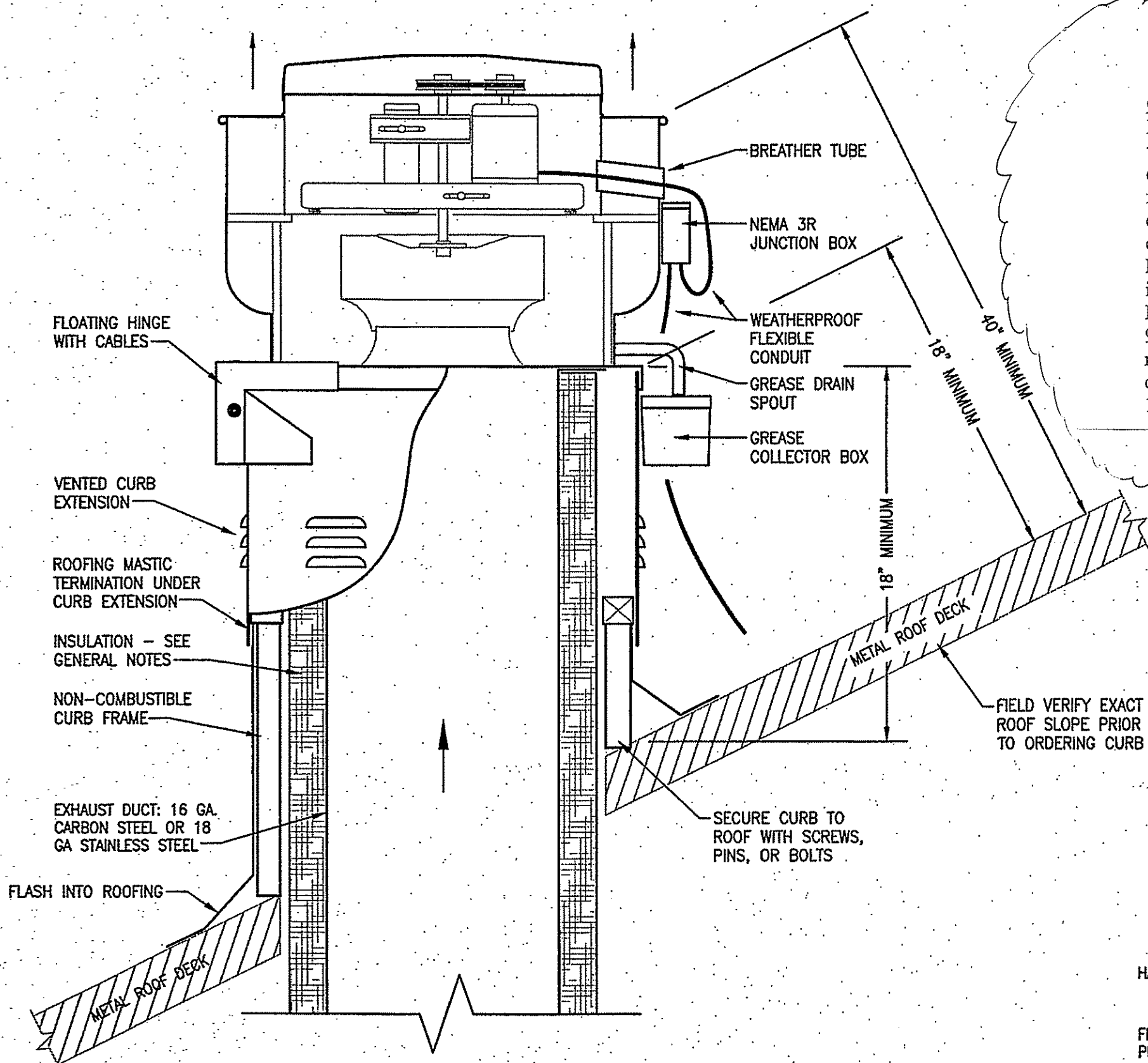
DESIGN BASIS: ACCUREX /GREENHECK
EQUAL BY: RUPP, GREASEMASTER

AIR BALANCE	
OUTSIDE AIR INTAKE (CFM)	EXHAUST AIRFLOW (CFM)
KSF-1 OA: 2300	KEF-1: 2800
KSF-2 OA: 2400	KEF-2: 2800
FURN-1 OA: 300	KEF-3: 150
FURN-2 OA: 300	EF-1: 70
FURN-3 OA: 400	EF-2: 70
	EF-3: 70
TOTAL OUTSIDE AIR: 5700	TOTAL EXHAUST: 5960
TOTAL AIR BALANCE = 260 CFM NEGATIVE PRESSURE. SMALL EF FANS OPERATE INTERMITTENTLY.	



- NOTES:**
- KITCHEN HOOD IS PROVIDED AND INSTALLED BY HVAC CONTRACTOR. COORDINATE WITH KITCHEN EQUIPMENT PROVIDER LAYOUT. SUBMIT LAYOUT WITH HOOD SUBMITTALS TO ENGINEER.
 - THIS DETAIL IS SHOWN FOR INFORMATION AND DIMENSIONAL PURPOSES ONLY; COORDINATE EXACT HOOD SELECTION AND TYPE WITH KITCHEN HOOD SCHEDULE.
 - THE HOOD SHALL EXTEND A MINIMUM OF 6" BEYOND THE EDGE OF THE COOKING SURFACE (IMC 507.12).
 - THE LOWEST EDGE OF THE GREASE FILTER SHALL BE AT LEAST 24" ABOVE THE COOKING SURFACE FOR AN APPLIANCE WITH AN EXPOSED FLAME AND BURNERS (IMC 507.11).
 - PROVIDE AN APPROVED AUTOMATIC FIRE SUPPRESSION SYSTEM COMPLYING WITH 2012 INTERNATIONAL BUILDING CODE & INTERNATIONAL FIRE CODE (IMC 509.1).
 - MAKEUP AIR FOR TYPE 1 HOOD SHALL COMPLY WITH NFPA 101 AND NFPA 96.
 - THIS DETAIL IS BASED ON A TYPE 1 COMPENSATING HOOD; A LABEL SHALL BE PROVIDED ON HOOD INDICATING EXHAUST AND MAKE-UP AIRFLOWS (IMC 508.2).
 - CONTRACTOR SHALL VERIFY THAT THE HOOD(S) USED ON THIS PROJECT MEET THE REQUIREMENTS STATED ABOVE, AND NOTIFY ENGINEER PRIOR TO ORDERING AND INSTALLING IF THESE REQUIREMENTS CANNOT BE MET.

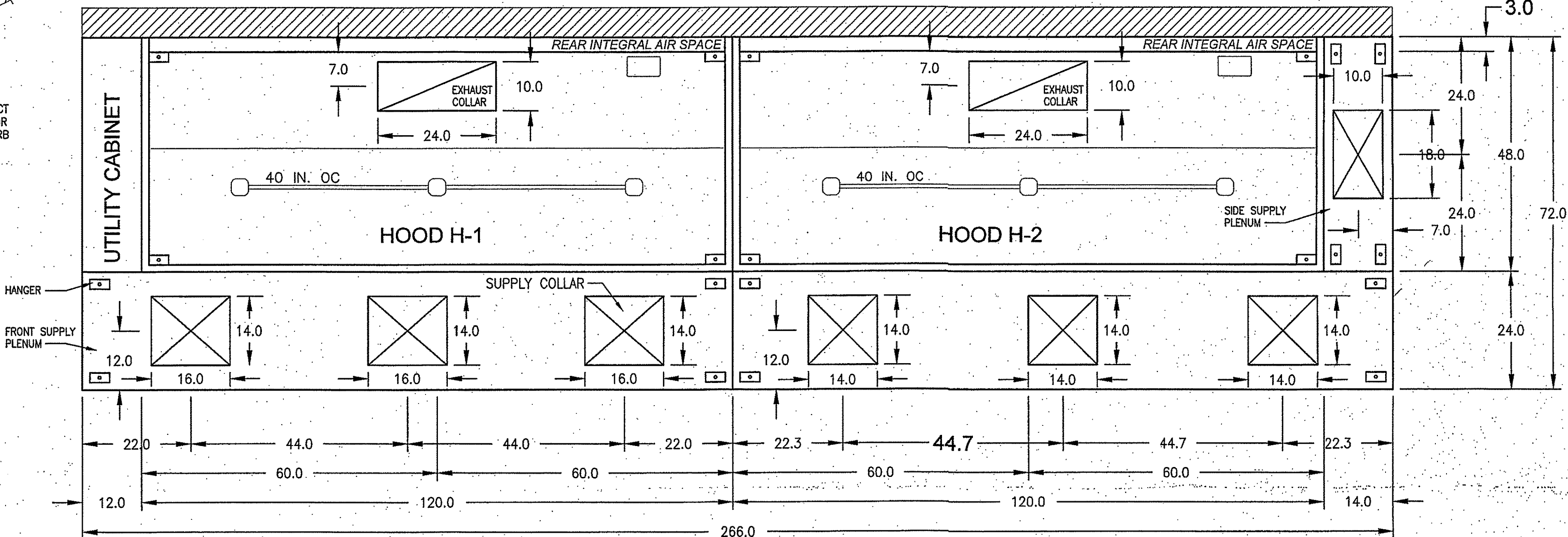
2 KITCHEN HOOD DETAIL
M0.2 NOT TO SCALE



- NOTES:**
- FAN SHALL BE LOCATED A MINIMUM OF 10' HORIZONTALLY FROM ANY AIR INTAKE
 - EXHAUST DUCT SHALL EXTEND A MINIMUM OF 18" ABOVE ROOF SURFACE. MAINTAIN ALL CLEARANCES TO SLOPED ROOF PER NFPA 96 7.8.2.
 - EXHAUST DUCT: TRANSITION TO FAN INLET SIZE. LENGTH OF DUCT WHERE VELOCITY FALLS BELOW 500 FPM SHALL NOT EXCEED THREE FEET (NFPA 96 8.2.1).

ROOF MOUNTED GREASE
EXHAUST UPBLAST FAN

2
M0.2 NOT TO SCALE

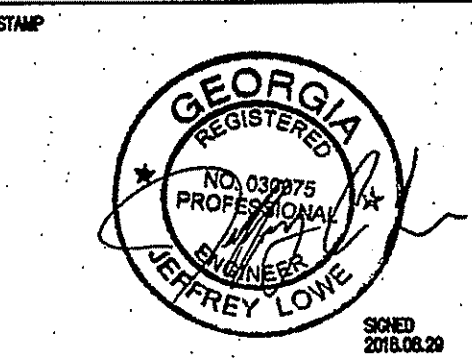


3 KITCHEN HOODS PLAN VIEW
M0.2 NOT TO SCALE

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KEY PLAN

MARK	DATE	DESCRIPTION
2	2018-10-15	Revisions

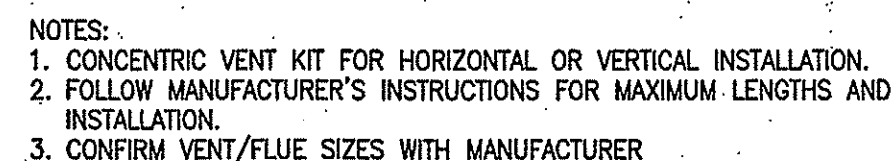
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DRAWN BY: J.L.
CHECKED BY: J.L.
DATE RELEASED FOR CONSTRUCTION

FILE NAME
SHEET TITLE
**MECHANICAL
KITCHEN HOOD &
FAN DETAILS**
SHEET NUMBER

M0.2

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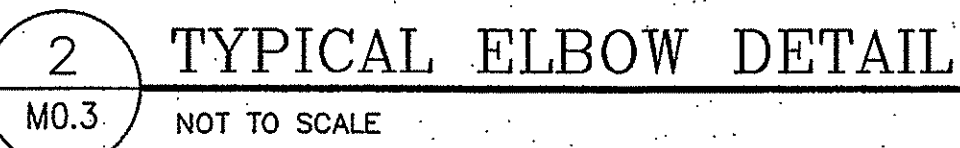
NOTES:

1. CONCENTRIC VENT KIT FOR HORIZONTAL OR VERTICAL INSTALLATION.
2. FOLLOW MANUFACTURER'S INSTRUCTIONS FOR MAXIMUM LENGTHS AND INSTALLATION.
3. CONFIRM VENT/FLUE SIZES WITH MANUFACTURER

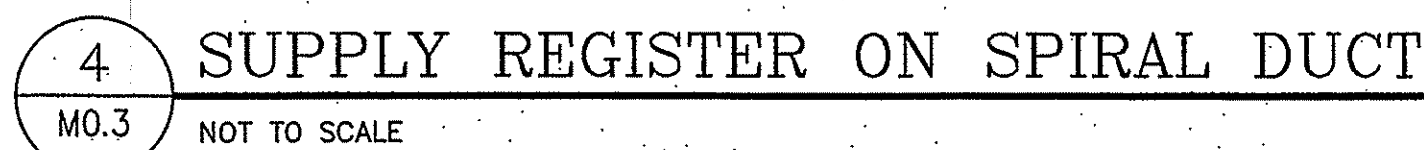


FIRE DAMPER DETAIL

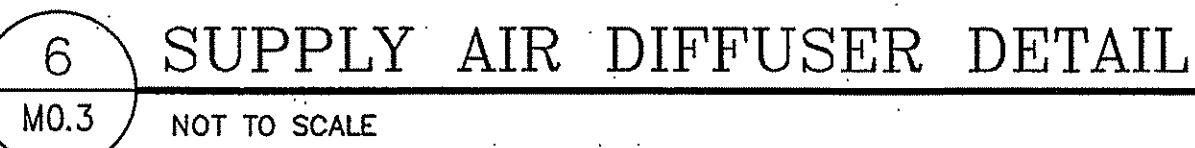
- ## FIRE DAMPER DETAIL



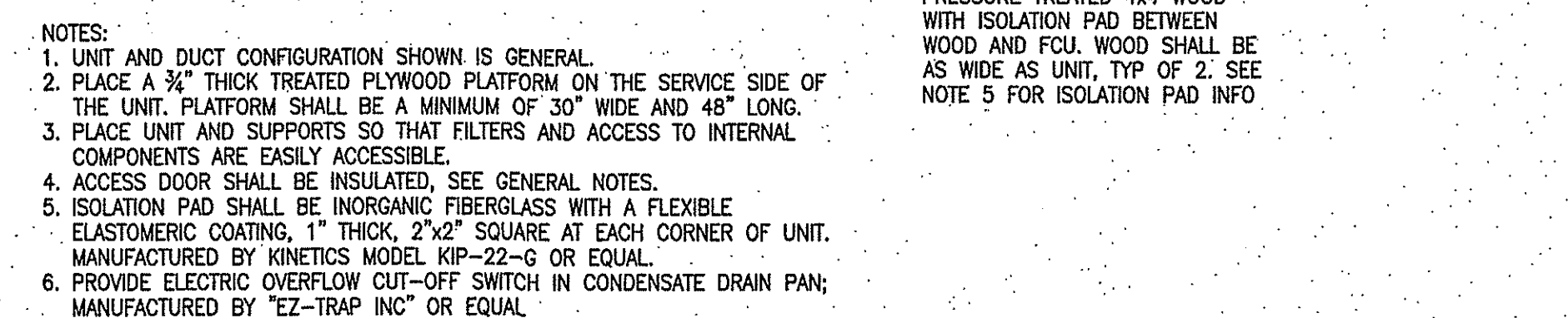
2 TYPICAL ELBOW DETAIL
M0.3 NOT TO SCALE



4 SUPPLY REGISTER ON SPIRAL DUCT
MO.3 NOT TO SCALE



6 SUPPLY AIR DIFFUSER DETAIL
M0.3 NOT TO SCALE



3 HORIZONTAL FURNACE - SUPPORTED
MO.3 NOT TO SCALE



5 HORIZONTAL FURNACE - SUSPENDED
M0.3 NOT TO SCALE



7 SUSPENDED INLINE FAN
M0.3 NOT TO SCALE

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SALE 420

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FILE NAME

SHEET TITLE

**MECHANICAL
DETAILS**

M0.3

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ACT	ABOVE COUNTERTOP OR BACKSPLASH
AC	ABOVE COUNTER
AMP	AMPERES
AFF/AFG	ABOVE FINISHED FLOOR/ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
APPROX	APPROXIMATELY
ARCH	ARCHITECTURAL
AWG	AMERICAN WIRE GAUGE
BC	BELOW CEILING
BD	BOARD
BLDG	BUILDING
C	CONDUIT
CAB	CABINET
CAP	CAPACITY
CBKR	CIRCUIT BREAKER
CKT	CIRCUIT
CLG	CEILING
CL	CENTER LINE
COL	COLUMN
CONN	CONNECTION
CONT	CONTINUATION
CPT	CONTROL POWER TRANSFORMER
CT	CURRENT TRANSFORMER
DET	DETAIL
DF/EDF	ELECTRICAL DRINKING FOUNTAIN
DN	DOWN
DS	DISCONNECT SWITCH
DWG	DRAWING
EA	EACH
EC	EMPTY CONDUIT
EF	EXHAUST FAN
ELEC	ELECTRIC
EQ	EQUIPMENT
EX	EXISTING
FA	FIRE ALARM
FAP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FBO	FURNISHED BY OTHERS
FU	FUSED
FL	FLOOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GND/G	GROUND
HP	HORSEPOWER
IG	ISOLATED GROUND
JB	JUNCTION BOX
KVA	KILOVOLT-AMPERE
KW	KILOWATT
KAIC	KILOAMPERE INTERRUPTING CAPACITY
MCB	MAIN CIRCUIT BREAKER
MECH	MECHANICAL
MISC	MISCELLANEOUS
MRS	MOTOR RATED SWITCH
MTR	MOTOR
MTD	MOUNTED
N	NEW
NEC	NATIONAL ELECTRICAL CODE
NF	NONUSED
NF	NUMBER
NTS	NOT TO SCALE
PNL	PANEL
PVC	POLYVINYL CHLORIDE CONDUIT
R	RELOCATED
RTU	ROOF TOP UNIT
SH	SHEET
SW	SWITCH
TEF	TOILET EXHAUST FAN
UNO	UNLESS NOTED OTHERWISE
WG	WIRE GUARD
WH	WATER HEATER
WP	WEATHER PROOF
XFMR	TRANSFORMER

- ALL WORK WITHIN THIS DIVISION SHALL COMPLY WITH ALL LOCAL BUILDING REGULATIONS, CODES, LAWS, ORDINANCES, AND REQUIREMENTS OF THE 2017 NATIONAL ELECTRICAL CODE.
2. AT THE COMPLETION OF HIS/HER WORK, THE CONTRACTOR SHALL SUBMIT "AS BUILT" DRAWINGS TO THE OWNER. THESE "AS BUILT" DRAWINGS SHALL SERVE AS A RECORD OF THE CHANGES WHICH ARE IN CONFLICT WITH THE DRAWINGS AND SPECIFICATIONS.
3. DRAWINGS ARE GENERALLY DIAGRAMMATIC AND DO NOT NECESSARILY INDICATE EVERY FITTING AND DETAIL. ALL WORK SHALL BE INSTALLED SO THAT JUNCTION BOXES AND COMPONENTS SHALL BE ACCESSIBLE FOR SERVICE.
4. ALL EQUIPMENT, SYSTEMS, COMPONENTS, WORK, ETC. PROVIDED AND INSTALLED UNDER THIS DIVISION SHALL BE COVERED BY A COMPLETE TWO YEAR GUARANTEE STARTING AT THE TIME OF FINAL APPROVAL AND ACCEPTANCE OF THE WORK BY THE OWNER. ANY DEFECTS IN THE EQUIPMENT, SYSTEMS, COMPONENTS, ETC. FOUND DURING THIS TWO YEAR TIME SHALL BE CORRECT AT NO CHARGE. THIS GUARANTEE SHALL INCLUDE PROVIDING ALL NECESSARY PATCHWORK, CUTTING, REPAINTING, ETC. TO INSURE THE WORK IS COMPLETE AND NEW.
5. ALL WORK SHALL BE PERFORMED IN A NEAT AND WORKMANLIKE MANNER ACCORDING TO GENERAL ACCEPTED PRINCIPALS OF FIRST CLASS WORKMANSHIP.
6. THESE DRAWINGS INDICATE THE GENERAL ARRANGEMENT AND LOCATION OF ELECTRICAL WORK. DATA SHOWN ON THESE DRAWINGS IS AS ACCURATE AS PLANNING CAN DETERMINE BUT FIELD VERIFICATION OF ALL DIMENSIONS, LEVELS, LOCATIONS, ETC. TO FIELD CONDITIONS SHALL BE REQUIRED. CONTRACTOR SHALL REVIEW ALL ARCHITECTURAL, CIVIL, STRUCTURAL, AND MECHANICAL DRAWINGS AND SHALL ADJUST ALL WORK TO MEET THE REQUIREMENTS OF CONDITIONS INDICATED.
7. CONTRACTOR SHALL COOPERATE AND COORDINATE WITH OTHER TRADES TO INSURE THAT INSTALLATION OF ELECTRICAL EQUIPMENT AND OUTLETS SHALL BE PROPERLY COORDINATED. CONDUIT, FIXTURES, AND EQUIPMENT LOCATIONS SHALL BE CHECKED AND COORDINATED WITH OTHER TRADES TO AVOID CONFLICT WITH STEEL PIPING, BEAMS, DUCTWORK, OR OTHER OBSTRUCTIONS.
8. WHERE WORK BY THE GENERAL CONTRACTOR (NEW OR RELOCATED WALL OPENINGS, WALL REMOVAL, ETC.) RESULTS IN THE RELOCATION, REMOVAL, OR REFEEDING OF ELECTRICAL DEVICES OR LIGHTING FIXTURES, THE ELECTRICAL CONTRACTOR SHALL DISCONNECT OR RECONNECT ALL ACTIVE DEVICES REMAINING ON THAT CIRCUIT SYSTEM(S) AS REQUIRED.
9. RING OUT ALL CIRCUITS IN EXISTING PANEL(S) AFFECTED BY THIS ALTERATION. WHERE ADDITIONAL CIRCUITS ARE NEEDED, REUSE CIRCUITS THAT ARE AVAILABLE FOR REUSE AND/OR PROVIDE NEW BREAKERS. ALL UNUSED CIRCUITS SHALL BE TAGGED AS SPARE AND ALL INOPERATIVE CIRCUIT BREAKERS SHALL BE REPLACED. ALL CONNECTIONS SHALL BE TIGHTENED AS REQUIRED.
10. ALL EXISTING FIRE ALARM, POWER DISTRIBUTION, JUNCTION BOXES, ETC. SHALL BE RELOCATED IF LOCATED OVER A CEILING SCHEDULED AS GYPSUM BOARD. ALL EXISTING JUNCTION BOXES SHALL BE RELOCATED TO ACCESSIBLE LOCATIONS AS NECESSARY.
11. WHERE ANY EXISTING CIRCUIT(S) TO REMAIN IS INTERRUPTED BY CONSTRUCTION, CIRCUIT SHALL BE MADE CONTINUOUS.
12. PROVIDE "HACR" TYPE BREAKERS FOR ALL MECHANICAL EQUIPMENT.
13. IN CASES WHERE CONFLICT OCCURS BETWEEN DRAWINGS AND SPECIFICATIONS OR BETWEEN DIFFERENT TRADES, AS WELL AS CASES OF ANY OMISSION OF INFORMATION, NOTIFY THE ARCHITECT OR ENGINEER TO RESOLVE AND OBTAIN RESOLUTION OF THE CONFLICT OR OMISSION BEFORE PROCEEDING WITH THE INSTALLATION.
14. WHERE DEMOLITION DISRUPTS ELECTRICAL CONTINUITY OF EXISTING RECEPTACLES AND/OR LIGHTS, AND NO RECONNECTION IS INDICATED, RECONNECT TO ITS EXISTING CIRCUIT.
15. ALL CONDUITS CROSSING EXPANSION JOINTS SHALL HAVE EXPANSION TYPE FITTINGS. WIRING SHALL BE INSTALLED AT DEPTHS BELOW FINISHED GRADE (BELOW SLAB AND SUB-BASE LEVEL) PER NEC 300.5.
16. PROVIDE ALL GROUNDING AS REQUIRED PER NEC.
17. A COMMON NEUTRAL SHALL BE USED AS PERMITTED BY THE NEC FOR MULTI-WIRE BRANCH CIRCUITS. A SEPARATE NEUTRAL SHALL BE PROVIDED FOR ALL CIRCUITS CONNECTED TO GROUND FAULT CIRCUIT INTERRUPTED (G.F.C.I.) TYPE DEVICES.
18. ALL BRANCH CIRCUIT CONDUCTORS SHALL INCLUDE A SEPARATE, GREEN GROUND WIRE, SIZED PER NEC AS INDICATED CONNECTED TO EACH DEVICE AND OUTLET BOX ON THE CIRCUIT AND TO THE PANELBOARD GROUND BUS. MULTIPLE WIRE BRANCH CIRCUITS WITH COMMON NEUTRALS REQUIRE ONLY ONE GROUND WIRE UNLESS OTHERWISE NOTED.
19. PROVIDE #12 AWG GROUND WIRE FOR ALL MECHANICAL EQUIPMENT UNLESS OTHERWISE NOTED. ALL EQUIPMENT SHALL BE GROUNDED AT THE PANEL WHICH FEEDS THE EQUIPMENT.
20. ALL CONDUCTORS SHALL BE COPPER WITH TYPE "THW" OR "THHN" INSULATION. THE MINIMUM WIRE SIZE SHALL BE #12 AWG WITH 167° DEGREE TEMPERATURE RATING.
21. MINIMUM HOMERUN SIZE SHALL BE 3/4".

23. ALL CONDUIT SHALL BE 1/2" EMT WITH #12AWG CONDUCTORS UNLESS OTHERWISE NOTED.
24. ALL CONDUIT SHALL BE CONCEALED IN WALLS OR ABOVE THE CEILING UNLESS OTHERWISE NOTED.
25. ARMORED CABLE SHALL BE USED IN WALLS AND MILLWORK ONLY AS WELL AS LIGHTING CIRCUITS ABOVE CEILINGS AND SHALL BE MC TYPE(WITH GROUND). ALL CONDUIT TO AND ABOVE THE PLENUM AND CIRCUIT HOMERUNS SHALL BE EMT.
26. PROVIDE AND INSTALL AND OUTLET BOX WITH 3/4" CONDUIT WITH PULLSTRING STUBBED UP WALL OR NEAREST WALL 6" ABOVE CEILING AT EACH NEW TELEPHONE AND DATA OUTLET. EXISTING TELEPHONE AND DATA OUTLETS SHALL BE REMOVED WHERE NOT USED.
27. ALL CONDUITS FOR FUTURE USE (I.E. TELEPHONE, DATA, ETC.) SHALL HAVE PULLSTRING PULLED IN THE CONDUIT AND SECURED AT BOTH ENDS UNLESS OTHERWISE NOTED.
28. ALL 120V. BRANCH CIRCUITS CONDUCTORS LONGER THAN 70'-0" SHALL BE #10 AWG AND LONGER THAN 150'-0" SHALL BE #8 AWG.
29. ALL RECESSED LIGHTING FIXTURES SHALL BE FASTENED TO STRUCTURE OR GRID PER NEC 410.
30. RECESSED INCANDESCENT FIXTURES SHALL BE SUPPORTED IN COMPLIANCE WITH NEC 410.
31. FURNISH AND INSTALL ALL LIGHTING FIXTURES COMPLETE WITH MOUNTING ACCESSORIES, RACEWAY, AND WIRES TO MEET JOB CONDITION.
32. ALL EXIT SIGNS AND EMERGENCY FIXTURES SHALL BE CONNECTED WITH CLOSEST EMERGENCY CIRCUIT.
33. PROVIDE NEW BALLAST IN EXISTING LIGHTING FIXTURES AS REQUIRED TO MAKE THEM COMPLETELY OPERATIONAL.
34. ALL SWITCHES FOR LIGHTS, FANS, ETC. INDICATED MOUNTED IN THE SAME GENERAL AREA SHALL SHARE A MULTI-GANG COVER PLATE AS REQUIRED. VERIFY ALL DOOR SWINGS WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN.
35. VERIFY LOCATION OF ALL MOTORS AND EQUIPMENT BEFORE ROUGH-IN.
36. DISCONNECT SWITCHES SHALL NOT BE MOUNTED ON DUCTWORK OR HVAC EQUIPMENT.
37. LABEL AND IDENTIFY ALL JUNCTION BOXES, WIREWAYS, AND SWITCHES AT THE TIME OF INSTALLATION. PROVIDE PERMANENT NAMEPLATES AS SPECIFIED OR INDICATED PRIOR TO FINAL INSPECTION.
38. ALL HOMERUNS SHALL BE PROTECTED BY 20A/1P BREAKERS UNLESS OTHERWISE NOTED. REUSE EXISTING HOMERUNS WHERE APPLICABLE WITHIN THE DESIGN CRITERIA OF THESE DRAWINGS.
39. DEVICE MOUNTING HEIGHTS SHALL BE MEASURED CENTERLINE TO THE DEVICE.
40. REMOVE ALL ABANDONED WIRE.
41. COORDINATE RECEPTACLE NEMA TYPE(S) AND VOLTAGE(S) WITH EQUIPMENT.
42. ALL PENETRATIONS THRU RATED WALLS, FLOORS, AND CEILINGS SHALL BE FIRE STOPPED PER NEC 300.21.
43. ALL ROOF PENETRATIONS SHALL BE AS AUTHORIZED BY LANDLORD AND IN ACCORDANCE WITH LANDLORD REQUIREMENTS. MAINTAIN ROOF WATERIGHT INTEGRITY.
44. PROVIDE A NEW DIRECTORY FOR ALL PANELS. UPDATE EACH PANEL DIRECTORY NOTING ALL CHANGES AND ADDITIONS. CORRECTLY LABEL ALL EXISTING CIRCUITS, NEW CIRCUITS, SPARE AND SPACES. NEW DIRECTORY SHALL BE TYPE WRITTEN. PANEL NAMES SHALL HAVE ENGRAVED NAME PLATES.
45. PROVIDE ENGRAVED NAME PLATES WITH SUITE NUMBER AND TENANT NAME ON METER SOCKET/DISCONNECT.

SYMBOL	DESCRIPTION	ON CENTER MOUNTING HEIGHT
	CONCEALED CONDUIT IN CEILING OR WALL	
	CONCEALED CONDUIT IN FLOOR OR UNDERGROUND	
	EXPOSED CONDUIT	
	CIRCUIT HOMERUN TO PANEL. EACH ARROWHEAD = 1 CIRCUIT	
	NUMBER OF CONDUCTORS IN CONDUIT, EACH TICKMARK = 1 WIRE. (GROUND WIRE NOT INDICATED)	
	FLEXIBLE CONDUIT OR S.O. CORD.	
	CONDUIT STUBBED UP OR STUBBED DOWN	
	SURFACE MOUNTED RACEWAY	
	MULTI-OUTLET SURFACE MOUNTED RACEWAY	
	FIRE RETARDANT PLYWOOD BACKBOARD	
	WALL MOUNTED SINGLE RECEPTACLE OUTLET	18" A.F.F.
	WALL MOUNTED DUPLEX RECEPTACLE OUTLET	18" A.F.F.
	WALL MOUNTED ABOVE COUNTER DUPLEX RECEPTACLE OUTLET	AS REQ'D
	WALL MOUNTED HALF SWITCHED DUPLEX RECEPTACLE OUTLET	18" A.F.F.
	CEILING MOUNTED DUPLEX RECEPTACLE OUTLET	
	WALL MOUNTED DUPLEX RECEPTACLE OUTLET ON ITS OWN CIRCUIT	18" A.F.F.
	WALL MOUNTED G.F.C.I. DUPLEX RECEPTACLE OUTLET	18" A.F.F.
	ABOVE COUNTER G.F.C.I. DUPLEX RECEPTACLE OUTLET	18" A.F.F.
	WALL MOUNTED QUAD RECEPTACLE OUTLET	18" A.F.F.
	WALL MOUNTED G.F.C.I. QUAD RECEPTACLE OUTLET	18" A.F.F.
	WALL MOUNTED SPECIAL PURPOSE RECEPTACLE OUTLET	18" A.F.F.
	JUNCTION BOX - SIZE AND MOUNTING AS REQUIRED	
	WALL MOUNTED TELEPHONE OUTLET	18" A.F.F.
	WALL MOUNTED DATA OUTLET	18" A.F.F.
	WALL MOUNTED DATA/TELEPHONE OUTLET	18" A.F.F.
	CABLE T.V. OUTLET - WALL, CEILING MOUNTED	
	120/208 VOLT PANELBOARD	
	277/480 VOLT PANELBOARD	
	WALL MOUNTED SINGLE POLE SINGLE THROW TOGGLE SWITCH	48" A.F.F.
	WALL MOUNTED 3-WAY TOGGLE SWITCH	48" A.F.F.
	WALL MOUNTED 4-WAY TOGGLE SWITCH	48" A.F.F.
	WALL MOUNTED DIMMER SWITCH (SIZE AND WATTAGE AS REQUIRED)	48" A.F.F.
	WALL MOUNTED FLUORESCENT DIMMER SWITCH (SIZE AND WATTAGE AS REQUIRED)	48" A.F.F.
	DISCONNECT SWITCH (FRAME SIZE/POLES/FUSE-IF REQUIRED) SIZE SHALL BE 30/3/NF UNLESS NOTED OTHERWISE.	AS REQ'D
	MOTOR STARTER SUPPLIED BY DIVISION 15	AS REQ'D
	COMBINATION MOTOR STARTER/DISCONNECT SWITCH	AS REQ'D
	MOTOR - NUMBER INDICATES HORSEPOWER (F=FRACATIONAL)	
	2X4 FLOURESCENT LIGHT FIXTURE - NORMAL POWER, EMERGENCY POWER	
	2X2 FLOURESCENT LIGHT FIXTURE - NORMAL POWER, EMERGENCY POWER	
	CEILING MOUNTED LIGHT FIXTURE - NORMAL POWER, EMERGENCY POWER	
	EXIT SIGN - CEILING, WALL MOUNTED	
	DUAL HEAD EMERGENCY LIGHT FIXTURE WITH BATTERY BACKUP.	
	SINGLE HEAD EMERGENCY LIGHT FIXTURE WITH BATTERY BACKUP.	
	COMBINATION EMERGENCY LIGHT FIXTURE AND EXIT SIGN WITH BATTERY BACKUP.	
	FULLY ADJUSTABLE FLOOR SINGLE-GANG STEEL FLOOR BOX WITH DUPLEX RECEPTACLE. COORDINATE EXACT LOCATION AND COVERPLATES WITH ARCHITECT. FLOOR BOX SHALL BE WALKER #880S1 OR EQUAL BY HUBBELL.	

SYMBOL	DESCRIPTION	ON CENTER MOUNTING HEIGHT
	HUBBELL (OR EQUAL) #DT-2000 CEILING MOUNTED DUAL-TECH (ULTRASONIC AND PASSIVE INFRARED) OCCUPANCY SENSOR WITH 360° COVERAGE. PROVIDED WITH REAL-TIME SELF-ADJUSTING SENSITIVITY AND TIME DELAY. SENSOR SHALL NOT BE INSTALLED WITHIN 6'-0" OF AIR SUPPLY/RETURN REGISTER. SENSOR LOCATIONS ARE APPROXIMATE. ADHERE TO MANUFACTURER'S INSTALLATION INSTRUCTIONS. COORDINATE WITH MANUFACTURER FOR PLACEMENT AND REQUIRED NUMBER OF POWERPACKS. FINISH BY OWNER.	
	HUBBELL "LIGHTHAWK" #MT-S1 (OR EQUAL) WALL-MOUNTED DUAL-TECH (ULTRASONIC AND PASSIVE INFRARED) OCCUPANCY SENSOR SWITCH WITH MANUAL OVERRIDE. PROVIDED WITH REAL-TIME SELF-ADJUSTING SENSITIVITY AND TIME DELAY. SENSOR LOCATIONS ARE APPROXIMATE. ADHERE TO MANUFACTURER'S INSTALLATION INSTRUCTIONS. COORDINATE WITH MANUFACTURER FOR PLACEMENT AND REQUIRED NUMBER OF POWERPACKS. FINISH BY OWNER.	48" A.F.F.
	HUBBELL "OMNI" #US-2000 (OR EQUAL) CEILING MOUNTED ULTRASONIC HALLWAY OCCUPANCY SENSOR. PROVIDED WITH REAL-TIME SELF-ADJUSTING SENSITIVITY AND TIME DELAY. SENSOR SHALL NOT BE INSTALLED WITHIN 6'-0" OF AIR SUPPLY/RETURN REGISTER. SENSOR LOCATIONS ARE APPROXIMATE. ADHERE TO MANUFACTURER'S INSTALLATION INSTRUCTIONS. COORDINATE WITH MANUFACTURER FOR PLACEMENT AND REQUIRED NUMBER OF POWERPACKS. FINISH BY OWNER.	

EXISTING PANEL: B (SECT. 1)

VOLTAGE & PHASE: 120/208Y-3Ø

MOUNTING: SURFACE

AIC RATING: EXISTING

AMPERAGE: 400A

MAIN: MLO

DESCRIPTION	KVA	BKR	PHASE	BKR	KVA	DESCRIPTION				
COOLER	1.2	20/1	1 A	2	20/1	0.7 REC-RESTROOMS				
COOLER	1.2	20/1	3 B	4	20/1	0.7 REC-OFFICE 2				
FREEZER	1.2	20/1	5 C	6	20/1	0.7 REC-OFFICE 1				
ELECTRIC OVEN	0.9	20/1	7 A	8	20/1	0.5 QUAD REC-POS				
SHUNT TRIP			9 B	10	20/1	0.7 REC-BAR/DINING				
DISHWASHER	2.8	30/1	11 C	12	20/1	0.5 QUAD REC-POS				
ICE MAKER	1.6	20/1	13 A	14	20/1	0.5 QUAD REC-POS				
COOLER (1)	1.2	20/1	15 B	16		0.4 REC-EQUIP MEZZANINE				
SODA MACHINE	1.0	20/1	17 C	18	30/2	2.2 COOLER EVAPORATOR				
COOLER	1.0	20/1	19 A	20	----	2.2 -----				
QUAD REC-TELEPHONE BOARD	0.4	20/1	21 B	22	30/2	2.2 COOLER COND. UNIT				
GFI REC-KITCHEN	0.4	20/1	23 C	24	----	2.2' -----				
GFI REC-KITCHEN	0.4	20/1	25 A	26	30/2	2.2 FREEZER EVAPORATOR				
SHUNT TRIP			27 B	28	----	2.2 -----				
GFI REC-KITCHEN	0.4	20/1	29 C	30	30/2	2.2 FREEZER COND. UNIT				
SHUNT TRIP			31 A	32	----	2.2 -----				
EXHAUST HOOD	0.5	20/1	33 B	34	30/2	2.2 BEER COOLER EVAPORATOR				
GFI REC-KITCHEN	0.4	20/1	35 C	36	----	2.2 -----				
QUAD REC-POS	0.5	20/1	37 A	38	30/2	2.2 BEER COOLER COND. UNIT				
REC-PARTY ROOM	0.9	20/1	39 B	40	----	2.2 -----				
GFI REC-KITCHEN	0.4	20/1	41 C	42	20/1	0.4 REC-EXTERIOR				
CONNECTED		D.F.		DEMAND						
EXISTING LOAD	0.0	x	1.00		0.0					
COOLING:	15.6	x	1.00		15.6					
HEATING:	0.0	x	0.00		0.0					
KITCHEN:	0.0	PER NEC	220.56		0.0					
LIGHTING:	1.8	x	1.25		2.3					
MOTORS:	13.3	x	1.00		13.3					
LARGEST MOTOR	0.0	PER NEC	220.18(A)		0.0					
OTHER:	60.6	x	1.00		60.6					
RECEPTACLES:	12.0	PER NEC	220.44		11.0					
CONNECTED KVA		DEMAND KVA:		102.8						
AVERAGE CONNECTED AMPS		DEMAND AMPS:		285.6						
						KVA LOAD PER PHASE:				
						PHASE A: 103.3%				
						PHASE B: 97.5%				
						PHASE C: 99.2%				
						HIGHEST PHASE LOAD				
						295.2 AMPERES				

NOTES:
(1)-PROVIDE SHUNT TRIP GFCI BREAKER.

NOTE: CONTRACTOR SHALL PROVIDE SEPARATE NEUTRALS OR HANDLE TIES ON MULTIWIRE BRANCH CIRCUITS [NEC 210.4 (B)]

EXISTING PANEL: B (SECT. 2)

VOLTAGE & PHASE: 120/208Y-3Ø

MOUNTING: SURFACE

AIC RATING: EXISTING

AMPERAGE: 400A

MAIN: MLO

DESCRIPTION	KVA	BKR	PHASE			BKR	KVA	DESCRIPTION
LIGHTING (1)	0.8	20/1	43	A	44	20/2	0.9	KEF-1
LIGHTING (1)	0.4	20/1	45	B	46	----	0.9	-----
LIGHTING (1)	0.5	20/1	47	C	48	20/2	0.9	KEF-2
LIGHTING (1)	0.1	20/1	49	A	50	----	0.9	-----
CEILING FANS	0.4	20/1	51	B	52	20/1	1.7	KEF-3
FURN-1	1.4	20/1	53	C	54	20/1	0.6	REC-RECIRC PUMP
FURN-2	0.9	15/1	55	A	56	20/1	1.7	KSF-1
FURN-3	1.4	20/1	57	B	58	----		SHUNT TRIP
CU-1	2.3	40/2	59	C	60	20/1	1.7	KSF-2
-----	2.3	----	61	A	62	----		SHUNT TRIP
CU-2	1.7	35/2	63	B	64	20/1	0.5	FF-1
-----	1.7	----	65	C	66	20/1	0.5	FF-1
CU-3	2.3	40/2	67	A	68	20/2	1.5	RELOCATED DSFC/DSCU
-----	2.3	----	69	B	70	----	1.5	-----
EDH-1	4.0	50/3	71	C	72	20/1		SPARE
-----	4.0	----	73	A	74	20/1		SPARE
-----	4.0	----	75	B	76	20/1		SPARE
EDH-2	4.0	50/3	77	C	78	20/1		SPARE
-----	4.0	----	79	A	80	20/1		SPARE
-----	4.0	----	81	B	82	20/1		SPARE
WATER HEATER CONTROLS	0.1	20/1	83	C	84	20/1		SPARE
		CONNECTED	D.F.			DEMAND		
EXISTING LOAD	0.0	x	1.00			0.0		
COOLING:	15.6	x	1.00			15.6		
HEATING:	0.0	x	0.00			0.0		
KITCHEN:	0.0	PER NEC	220.56			0.0		
LIGHTING:	1.8	x	1.25			2.3		
MOTORS:	13.3	x	1.00			13.3		
LARGEST MOTOR	0.0	PER NEC	220.18(A)			0.0		
OTHER:	24.5	x	1.00			24.5		
RECEPTACLES:	0.6	PER NEC	220.44			0.6		
		CONNECTED KVA				DEMAND KVA:		
		55.9				56.3		
		AVERAGE CONNECTED AMPS	155.2			DEMAND AMPS:		
						156.5		

KVA LOAD PER PHASE:

PHASE A: 104.6%

PHASE B: 100.7%

PHASE C: 94.7%

HIGHEST PHASE LOAD

163.6 AMPERES

NOTES:
(1)-ROUTE THRU CONTACTOR FOR TIMECLOCK ON/TIMECLOCK OFF OPERATION.

NOTE: CONTRACTOR SHALL PROVIDE SEPARATE NEUTRALS OR HANDLE TIES ON MULTIWIRED BRANCH CIRCUITS [NEC 210.4 (B)]

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STAMP

7-1

SAM'S ON MAIN
BUILDING NO 3, 2135 LOGANVILLE HIGHWAY, GRAYSON, GA. 30017

HEP ARCHITECTURE
784 EXCHANGE MILL PL. Dacula, GA. 30019
CELL: 770-652-6862

KEY PLAN

[illegible]

PROJECT NUMBER
DRAWN BY
CHECKED BY
DATE RELEASED FOR CONSTRUCTION
FILE NAME
SHEET TITLE
**ELECTRICAL
PANEL
SCHEDULES**
SHEET NUMBER

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Project Information

Construction Site:
2135 Loganville Highway
Grayson, GA 30017

Owner/Agent:

Designer/Contractor:
Matthew Hoskins
Hoskins Engineering LLC
1357 Dalesford Dr.
Alpharetta, GA 30004
678-463-5074
hoskinseng@bellsouth.net

Allowed Interior Lighting Power

A	B	C	D
Area Category	Floor Area (ft ²)	Allowed Watts / ft ²	Allowed Watts (B X C)
1-Common Space Types:Dining Area - General	1040	0.30	838
2-Common Space Types:Office - Enclosed	93	1.00	108
3-Common Space Types:Restrooms	111	0.90	100
4-Common Space Types:Electrical/Mechanical	434	1.50	651
5-Common Space Types:Food Preparation	718	1.18	882
6-Common Space Types:Conferences/Meeting/Multipurpose	262	3.00	341
7-Common Space Types:Active Storage	65	0.80	52
8-Common Space Types:Corridor/Transition	147	0.50	74
		Total Allowed Watts =	3122

Proposed Interior Lighting Power

A	B	C	D	E
Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	Lamps/ Fixture	# of Fixtures	Fixture Watt.	(C X D)
1.Common Space Types:Dining Area - General				
LED 1 copy 1: A: Other:	1	3	39	118
LED 7: D: Other:	1	3	25	76
LED 4: F: Other:	1	9	45	405
2.Common Space Types:Office - Endused				
LED 1 copy 2: A: Other:	1	2	39	77
3.Common Space Types:Restrooms				
LED 1 copy 2: A: Other:	1	1	39	39
LED 6: B: Other:	1	1	27	27
4.Common Space Types:Electrical/Mechanical				
LED 3: C: Other:	1	6	25	150
5.Common Space Types:Food Preparation				
LED 1 copy 2: A: Other:	1	15	39	580

Project Title: Sam's on Main
Data filename: E:\2018\18072-Sam's on Main\E\18072Energy.cck

Report date: 07/12/18
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A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps / Fixture	C # of Fixtures	D Fixture Watt.	(C X D)
<u>8-Common Space Types:Conference/Meeting/Multipurpose</u> LED 1 copy 2: A: Other:	1	8	39	232
<u>7-Common Space Types:Active Storage</u> LED 3 copy 1: C: Other:	1	1	25	25
<u>8-Common Space Types:Corridor/Transition</u> LED 1 copy 2: A: Other:	1	3	39	116
Total Proposed Watts =				1843

Interior Lighting PASSES Design 41% better than code

Interior Lighting Compliance Statement

Matthew Hoskins, P.E.
Name - Title

Signature _____

7-13-18

Project Title: Sam's on Main
Data filename: E:\2018\18072-Sam's on Main\E\18072Energy.cck

Report date: 07/12/18
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LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	LAMPS	MANUFACTURER	REMARKS
A	RECESSED, 2'-0" x 4'-0" LED FIXTURE WITH 0.125" THICK PATTERN 12 VIRGIN ACRYLIC LENS.	38.7W LED	LITHONIA #2WRIL-G-L48-5000LM-AFL-14VOLT-35K-80CRI	PROVIDE SHATTERPROOF/SHIELDED LENS IN KITCHEN AND BAR AREA.
B	RECESSED, 2'-0" x 2'-0" LED FIXTURE WITH 0.125" THICK PATTERN 12 VIRGIN ACRYLIC LENS.	26.6W LED	LITHONIA #2WRIL-G-L24-3000LM-AFL-14VOLT-35K-80CRI	
C	PENDANT MOUNTED LED FIXTURE.	25W MAX	COORDINATE WITH OWNER.	
D	PENDANT MOUNTED LED COUNTER FIXTURE WITH PROTECTIVE LENS.	25W MAX	COORDINATE WITH OWNER.	
CF	PENDANT MOUNTED CEILING FAN.	N/A	COORDINATE WITH OWNER.	
F	4'-0" LED STRIP FIXTURE.	45W LED	COLUMBIA #LCI-4-40-ML-ED-U	
ER	OUTDOOR EMERGENCY LIGHTING UNIT WITH INTEGRAL PHOTOCELL AND EMERGENCY BATTERY BACKUP. U.L LISTED FOR WET LOCATION.	1.4W	LIGHTALARMS CAMRAY SERIES	
ZE	DUAL HEAD EMERGENCY LIGHTING UNIT WITH 1.8W LED HEADS AND 90 MINUTE MINIMUM BATTERY BACKUP	(2) 1.8W LED	LIGHTALARMS LCA-25Q SERIES	OR EQUAL BY LITHONIA "EU2" SERIES
ZE2	COMBINATION UNIVERSAL MOUNTED LED EXIT SIGN AND DUAL HEAD EMERGENCY LIGHTING UNIT WITH 5.4W HALOGEN HEADS. PROVIDE DIRECTIONAL ARROWS, DOUBLE OR SINGLE FACE AS SHOWN. PROVIDE WITH 90 MINUTE MINIMUM BATTERY BACKUP.	LED	LIGHTALARMS UOLXN SERIES	OR EQUAL BY LITHONIA "LHM" SERIES

ARCHITECTURE

HOLLIS PUCKETT ARCHITECTURE

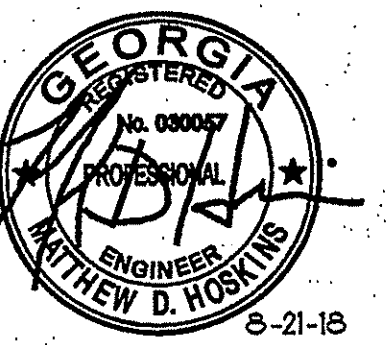
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SAM'S ON MAIN
BUILDING NO 3, 2135 LOGANVILLE HIGHWAY, GRAYSON, GA. 30017

HEP ARCHITECTURE
784 EXCHANGE MIL PI DALLAS, GA 30019

CELL: 770-652-6862

Y PLAN

PRINTING AND REVISIONS		
MARK	DATE	DESCRIPTION
REV 2	9/25/18	HEALTH PLAN REVIEW COMMENTS

PROJECT NUMBER

ARM BY

BE RELEASED FOR CONSTRUCTION

NAME .

ET TITLE

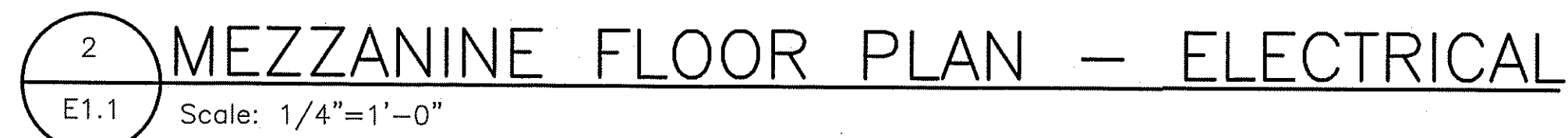
LIGHTING SCHEDULE AND ENERGY REPORT

ET NUMBER

≡0.3

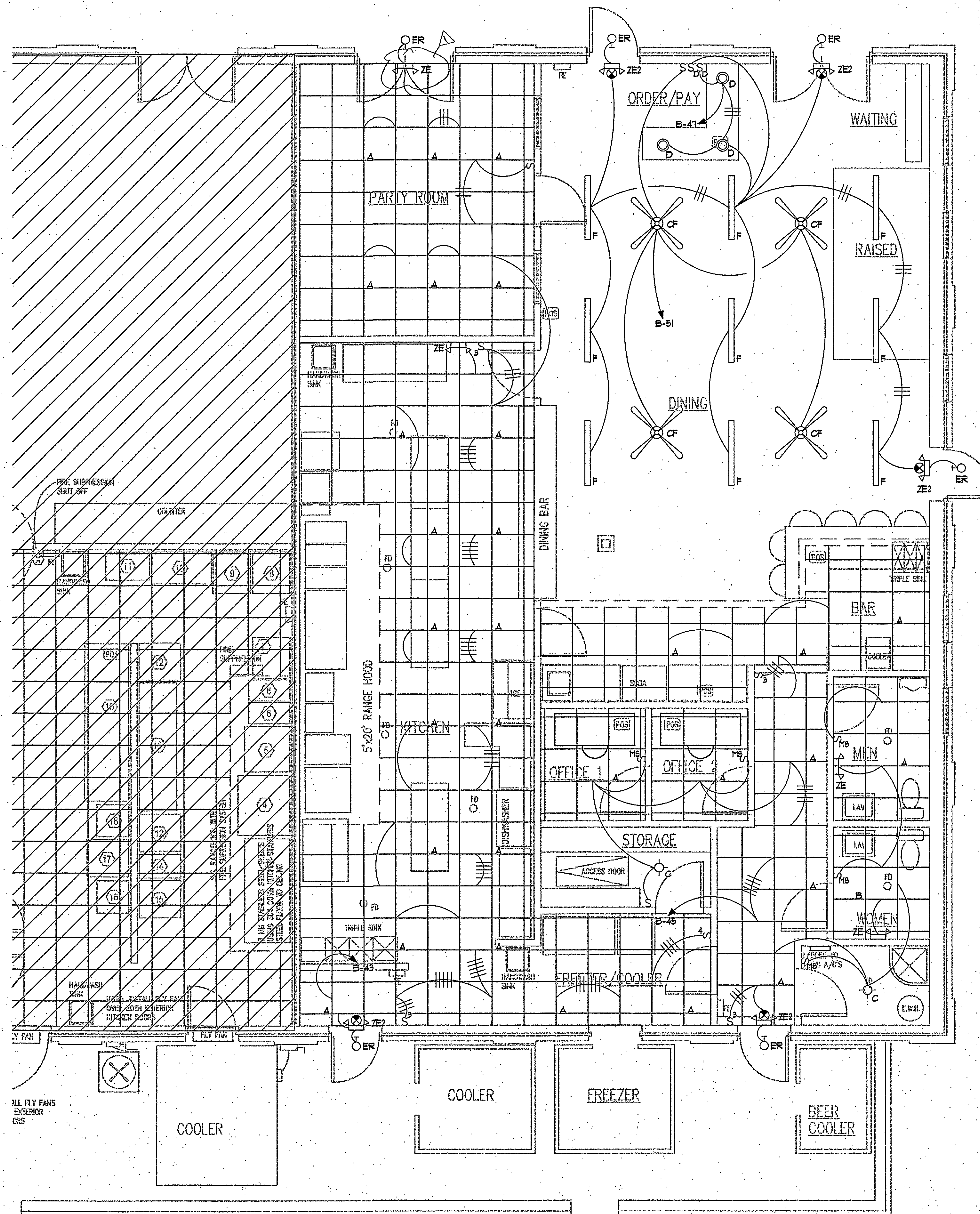
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FOR CONSTRUCTION ONLY



NOTE: HATCHED AREA IS NOT IN CONTRACTOR'S SCOPE OF WORK

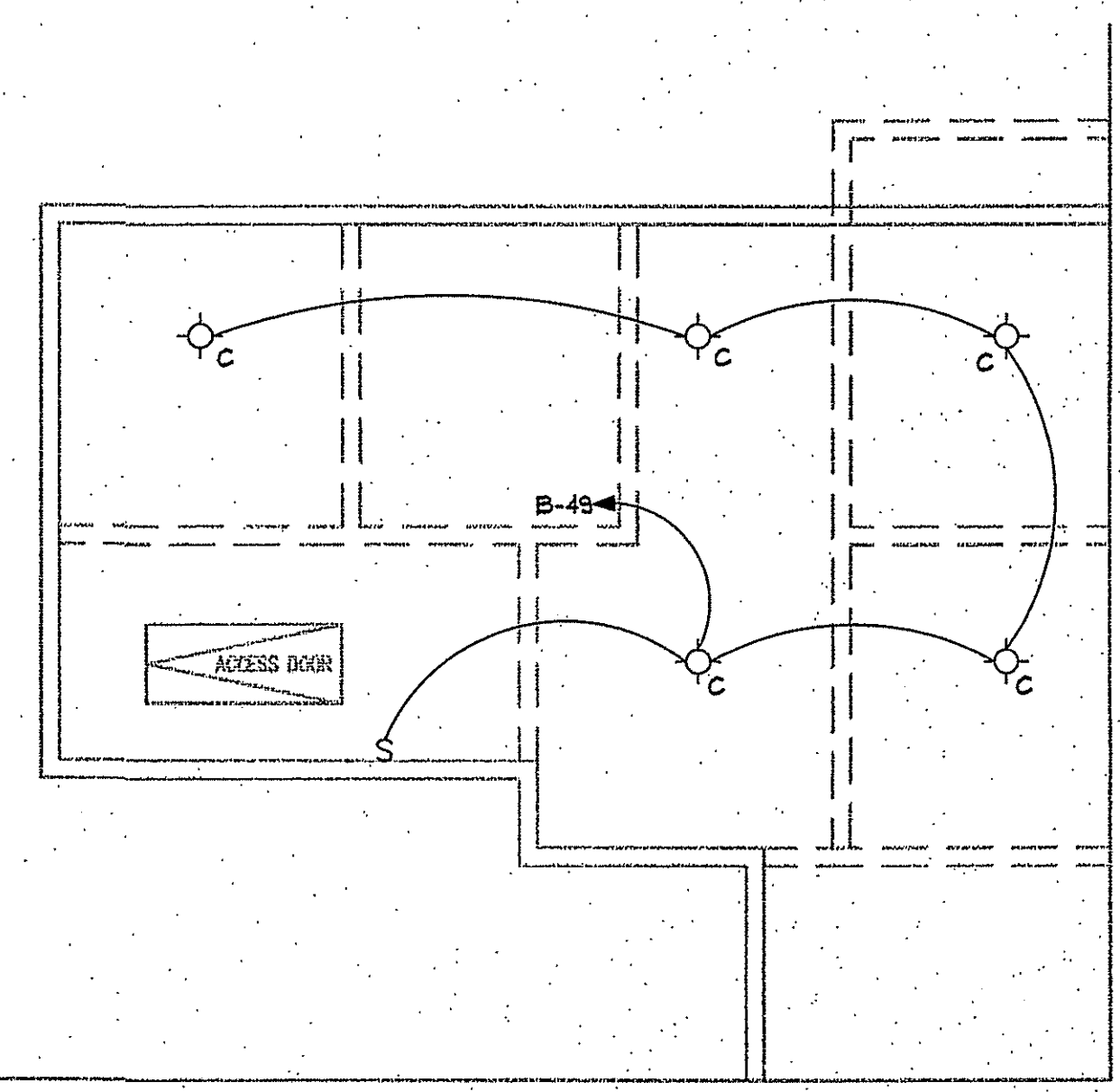
DR = DUPLEX RECEPTACLE
EC = HARD-WIRED CONNECTION
SR = SPECIAL PURPOSE OUTLET



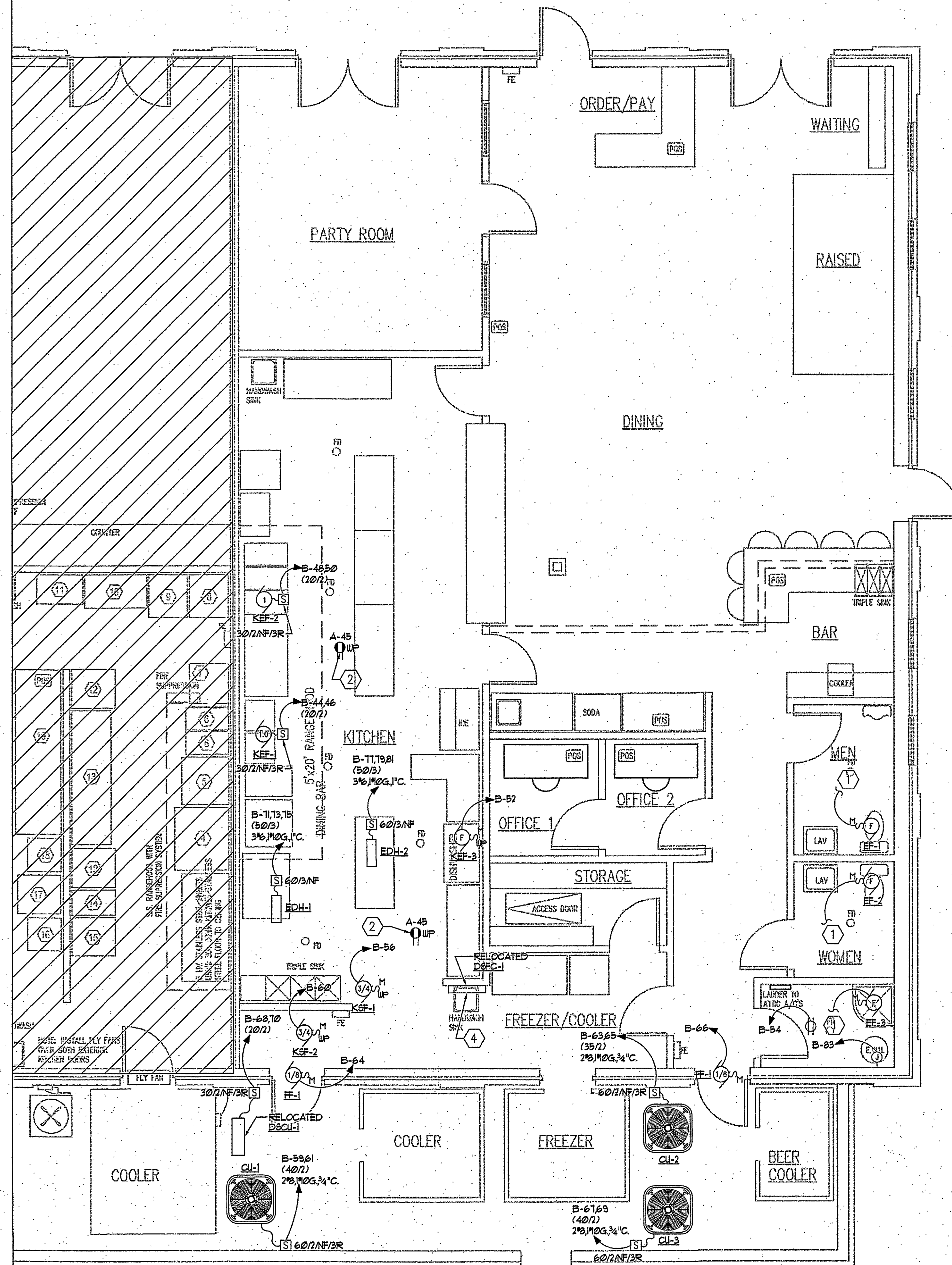
NOTE: HATCHED AREA IS NOT IN CONTRACTOR'S SCOPE OF WORK

- GENERAL NOTES:
(APPLY THIS SHEET ONLY)

1. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF LIGHTING FIXTURES.
2. CIRCUITING SHOWN ON THIS PLAN IS FOR SCHEMATIC PURPOSES ONLY TO INDICATE SWITCHING AND CONNECTION OF NEW LIGHT FIXTURES.
3. SWITCH COVERPLATES SHALL BE MATCH BASE BUILDING STANDARD.
4. PROVIDE ADDITIONAL UNSWITCHED "HOT" TO ALL EMERGENCY LIGHTING FIXTURES.



2 MEZZANINE FLOOR PLAN - LIGHTING
E2.1 Scale: 1/4"=1'-0"



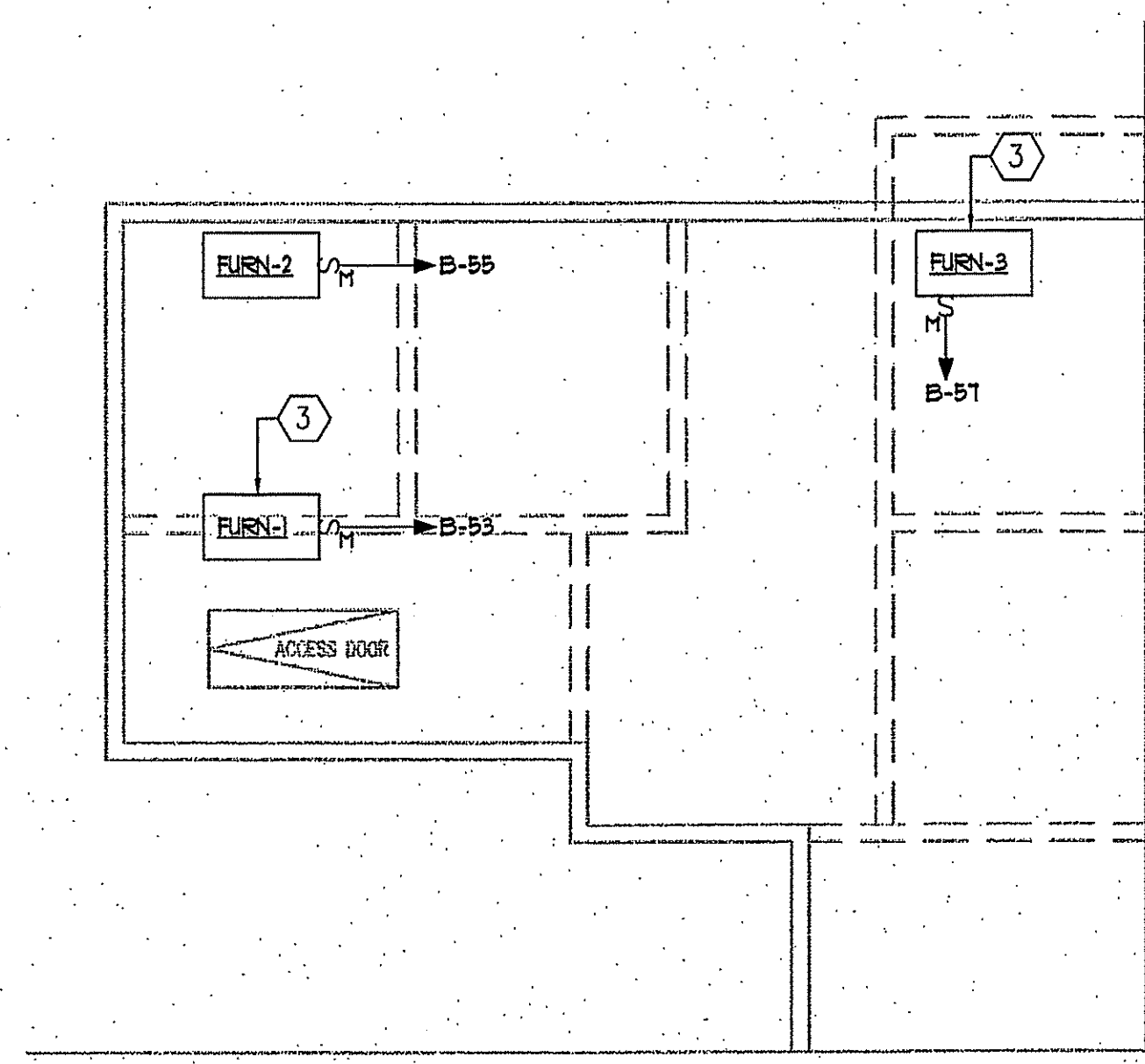
NOTE: HATCHED AREA IS NOT IN CONTRACTOR'S SCOPE OF WORK

GENERAL NOTES
(APPLY THIS SHEET ONLY)

1. COORDINATE EXACT LOCATION OF MECHANICAL UNITS WITH DIVISION 15.

LEGEND NOTES:
(APPLY THIS SHEET ONLY)

- 1 EXHAUST FAN SHALL BE POWERED AND SWITCHED FROM SAME 120V. LIGHTING CIRCUIT SERVING THIS ROOM.
- 2 PROVIDE AND INSTALL GFCEI, WEATHER-PROOF SERVICE RECEPTACLE ON ROOF VIA UNISTRUT WITHIN 25'-0" OF MECHANICAL UNIT.
- 3 PROVIDE AND INSTALL DUCT MOUNTED SMOKE DETECTOR IN RETURN AND SUPPLY SIDE OF HVAC UNIT.
- 4 INDOOR UNIT POWERED THRU OUTDOOR UNIT. EXTEND EXISTING CONDUIT, CONDUCTORS, AND ASSOCIATED WIRING AS REQUIRED FOR A COMPLETE REINSTALLATION. COORDINATE WITH DIVISION 15 FOR NEW LOCATION AND EXACT POWER REQUIREMENTS PRIOR TO REINSTALLATION.



2 MEZZANINE FLOOR PLAN – SYSTEMS
E3.1 Scale: 1/4"=1'-0"