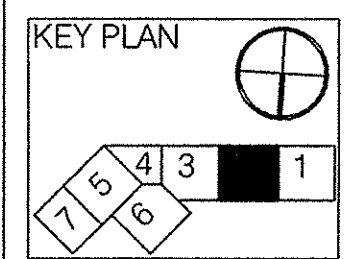


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PERMIT	9/8/11

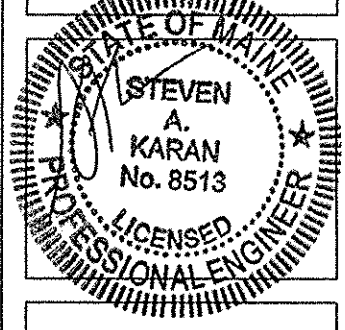


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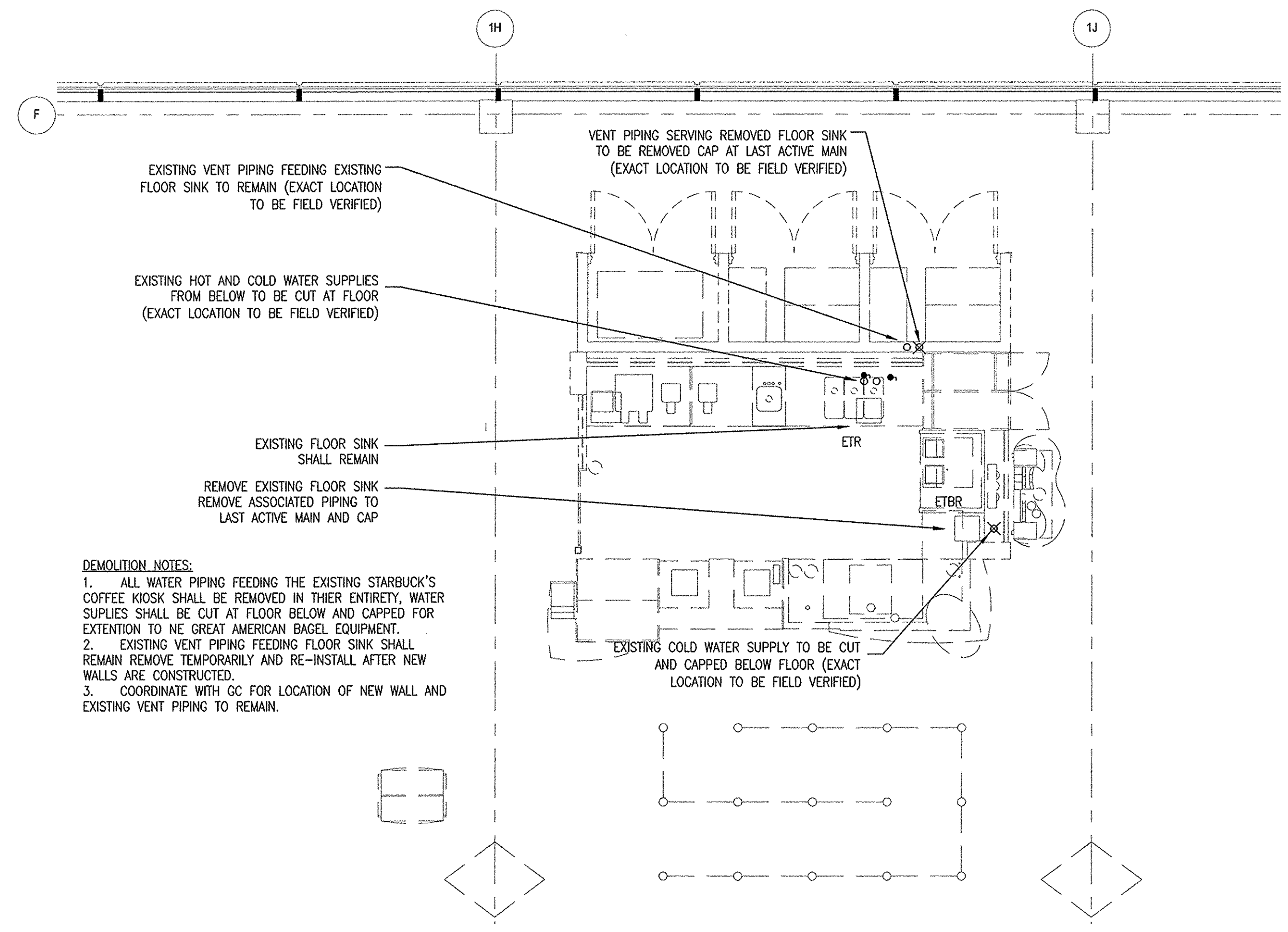


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Job No.: 11400
 Scale: As noted
 Issued: 09/08/11

PLUMBING PLANS

P1.0



1 DEMOLITION PLAN
1/4"=1'-0"

- DEMOLITION NOTES:**
- ALL WATER PIPING FEEDING THE EXISTING STARBUCK'S COFFEE KIOSK SHALL BE REMOVED IN THEIR ENTIRETY. WATER SUPPLIES SHALL BE CUT AT FLOOR BELOW AND CAPPED FOR EXTENSION TO NE GREAT AMERICAN BAGEL EQUIPMENT.
 - EXISTING VENT PIPING FEEDING FLOOR SINK SHALL REMAIN REMOVE TEMPORARILY AND RE-INSTALL AFTER NEW WALLS ARE CONSTRUCTED.
 - COORDINATE WITH GC FOR LOCATION OF NEW WALL AND EXISTING VENT PIPING TO REMAIN.

EXISTING VENT PIPING FEEDING EXISTING FLOOR SINK TO REMAIN (EXACT LOCATION TO BE FIELD VERIFIED)

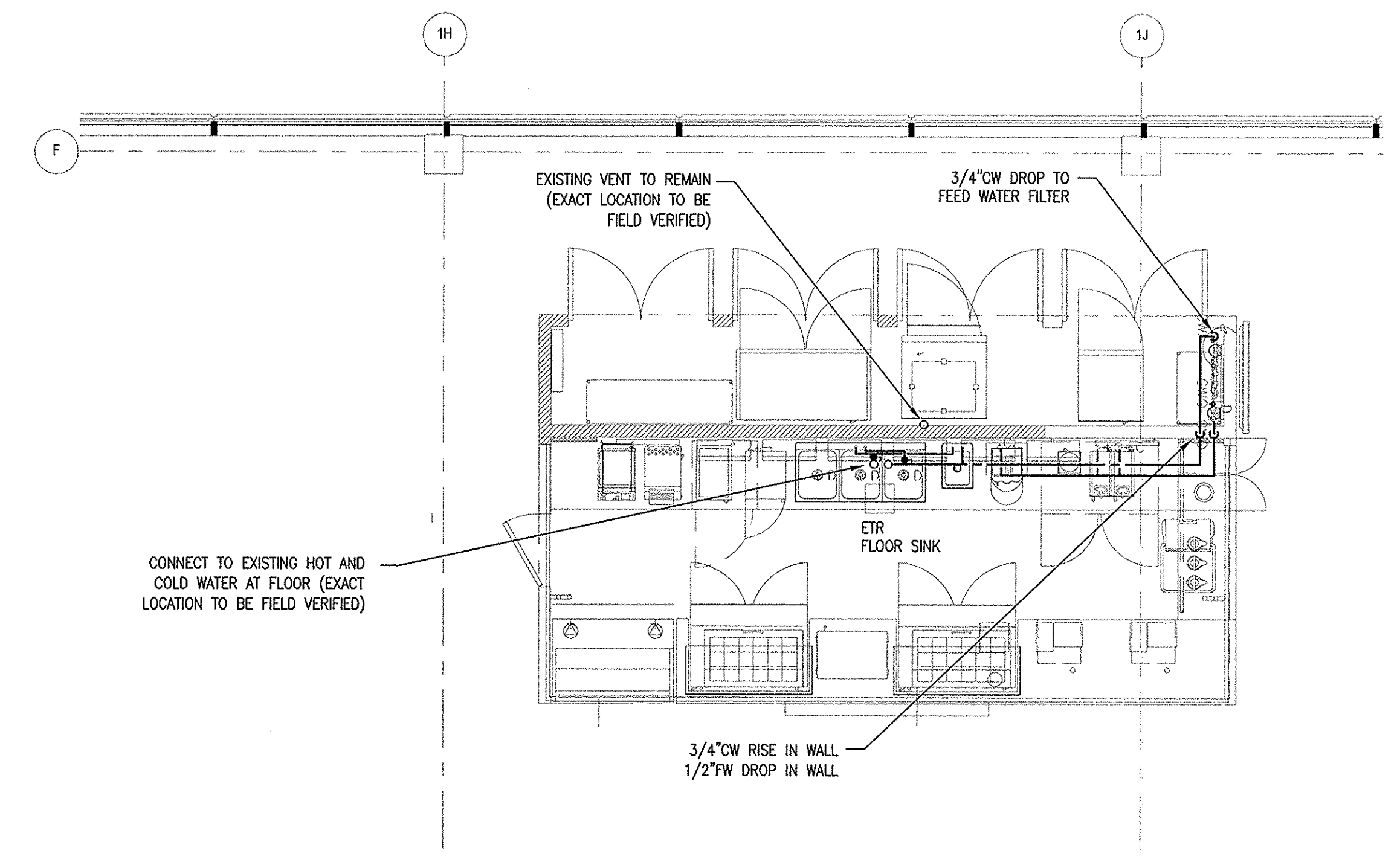
EXISTING HOT AND COLD WATER SUPPLIES FROM BELOW TO BE CUT AT FLOOR (EXACT LOCATION TO BE FIELD VERIFIED)

EXISTING FLOOR SINK SHALL REMAIN

REMOVE EXISTING FLOOR SINK REMOVE ASSOCIATED PIPING TO LAST ACTIVE MAIN AND CAP

VENT PIPING SERVING REMOVED FLOOR SINK TO BE REMOVED CAP AT LAST ACTIVE MAIN (EXACT LOCATION TO BE FIELD VERIFIED)

EXISTING COLD WATER SUPPLY TO BE CUT AND CAPPED BELOW FLOOR (EXACT LOCATION TO BE FIELD VERIFIED)



2 PLUMBING PLAN
1/4"=1'-0"

EXISTING VENT TO REMAIN (EXACT LOCATION TO BE FIELD VERIFIED)

3/4" CW DROP TO FEED WATER FILTER

CONNECT TO EXISTING HOT AND COLD WATER AT FLOOR (EXACT LOCATION TO BE FIELD VERIFIED)

3/4" CW RISE IN WALL 1/2" FW DROP IN WALL

PLUMBING GENERAL NOTES:

- GENERAL NOTES, SYMBOLS LIST AND DETAILS ARE APPLICABLE TO ALL DRAWINGS MARKED P.
- DRAWINGS ARE DIAGRAMMATIC: DETERMINE LOCATIONS OF SYSTEMS AND COMPONENTS IN FIELD.
- ALL PLUMBING WORK SHALL BE IN ACCORDANCE WITH THE PRESIDING PLUMBING CODE AND ALL APPLICABLE LOCAL CODES.
- IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO COORDINATE WORK WITH THAT OF ALL OTHER TRADES, INCLUDING (BUT NOT LIMITED TO), ELECTRICAL, HVAC, AND GENERAL ARCHITECTURE.
- ANY INTERFERENCE SHALL BE BROUGHT TO THE ATTENTION OF THE CONSTRUCTION MANAGER AND THE OWNER'S REPRESENTATIVE, AND RESOLVED PRIOR TO THE INSTALLATION OF THE WORK INVOLVED.
- NO WORK SHALL BE INSTALLED IN VIOLATION OF ANY GOVERNING CODES.
- ALL PRODUCT INSTALLATION SHALL ADHERE TO THE MANUFACTURERS' RECOMMENDATIONS.
- PROVIDE SHUTOFF VALVES WHERE INDICATED ON DRAWINGS. ALL VALVES SHALL BE ACCESSIBLE.
- PROVIDE INFORMATION AND HARDWARE AS NECESSARY TO COORDINATE WORK.
- VERIFY EXACT SIZES, LOCATIONS, INVERTS AND ELEVATIONS PRIOR TO RUNNING ANY PIPING.
- REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF ALL FIXTURES AND EQUIPMENT.
- ALL PIPING THAT PENETRATES FLOORS OR FIRE RATED WALLS SHALL BE FIRE STOPPED W/ HILTI CAULKING PER MANUFACTURERS RECOMMENDATIONS.
- DEMOLITION WORK SHALL BE PERFORMED BY THE GENERAL CONTRACTOR. COORDINATE WITH THE GENERAL CONTRACTOR, ANY WORK WHICH MAY REQUIRE DISCONNECTION OR TEMPORARY CAPPING OF A SYSTEM WHICH SHALL REMAIN OPERATIONAL.
- BEFORE SUBMITTING BID, VISIT AND CAREFULLY EXAMINE SITE TO IDENTIFY EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT WORK OF THIS SECTION. NO EXTRA PAYMENT WILL BE ALLOWED FOR ADDITIONAL WORK CAUSED BY UNFAMILIARITY WITH SITE CONDITIONS THAT ARE VISIBLE OR READILY CONSTRUED BY EXPERIENCED OBSERVER. SITE VISIT IS PARTICULARLY IMPORTANT BECAUSE THIS IS RENOVATION WORK.
- BEFORE STARTING WORK VISIT SITE AND EXAMINE CONDITIONS UNDER WHICH WORK MUST BE PERFORMED INCLUDING PREPARATORY WORK DONE UNDER OTHER SECTIONS OR CONTRACTS OR BY OWNER. REPORT CONDITIONS THAT MIGHT AFFECT WORK ADVERSELY IN WRITING THROUGH CONTRACTOR TO ARCHITECT. DO NOT PROCEED WITH WORK UNTIL DEFECTS HAVE BEEN CORRECTED AND CONDITIONS ARE SATISFACTORY. COMMENCEMENT OF WORK SHALL BE CONSTRUED AS COMPLETE ACCEPTANCE OF EXISTING CONDITIONS AND PREPARATORY WORK.

DRAWING NOTES:

- EQUIPMENT SUPPLIED BY OWNER. ALL FINAL CONNECTIONS AND DISTRIBUTION PIPING SHALL BE PROVIDED BY THE PLUMBING CONTRACTOR.
- PLUMBING CONTRACTOR SHALL SET TEMPERATURE LIMIT STOPS AT HAND SINKS TO 110°.
- HOT WATER SUPPLIED TO TENANT AT 115°
- PLUMBING CONTRACTOR SHALL RUN WATER PIPING BELOW COUNTER AS INDICATED TO FEED EQUIPMENT.
- SEE KITCHEN EQUIPMENT AND ARCHITECTURAL DRAWINGS FOR COUNTER SECTIONS AND MEASURED LOCATIONS OF ROUGH-IN BELOW COUNTERS.
- RUN INDIRECT WASTE FROM EQUIPMENT BELOW COUNTER TO EXISTING FLOOR SINK.
- RUN PIPING BELOW COUNTER TIGHT TO BACK WALL AS NEATLY AS POSSIBLE TO PREVENT INTERFERENCE WITH NORMAL OPERATION OF STORE.
- DOMESTIC WATER PIPING MATERIAL SHALL MATCH EXISTING, PIPING AFTER FILTER SHALL BE AS REQUIRED BY FILTER MANUFACTURER.
- WASTE AND VENT PIPING SHALL BE DWV COPPER, PVC OR

PLUMBING LEGEND

---	ETR	LIGHT LINE INDICATES EXISTING PIPING TO REMAIN.
---X---X---X---	RE	REMOVE EXISTING PIPING
---X---X---	C&C	CUT & CAP
---	CW	COLD WATER
---	FW	FILTERED WATER
---	HW	HOT WATER
---	CONT	CONTINUATION
---	UP	PIPE RISE OR UP
---	DN	PIPE DROP OR DOWN
---	TEE	PIPE TEE
---		CAPPED PIPE
---	ETR	EXISTING TO REMAIN
---	ETBR	EXISTING TO BE REMOVED
---	TYP	TYPICAL
---	GC	GENERAL CONTRACTOR
---	PC	PLUMBING CONTRACTOR
---	HWAC	HWAC CONTRACTOR

PLUMBING SPECIFICATIONS

I GENERAL

A. General: The work covered consists of furnishing all labor and materials necessary to install, complete and ready for continuous operation, the plumbing systems, apparatus and equipment for the Great American Bagel Concession Space at the Portland International Jetway.

B. Shop Drawings: Shop Drawings for all specified fixtures, equipment and apparatus shall be submitted to the Architect for approval.

C. Codes: All equipment and materials furnished under the Plumbing Sub-Contract and labor and testing performed herein shall be in complete accordance with the Maine State Building, Plumbing Codes, Local Ordinances and Regulations of the City of Portland, National Fire Protection Association and insurance regulations and requirements governing such work.

D. Permits: Any and all permits required for installation of any material shall be obtained as part of the work of this Specification including all fees or expenses incurred.

E. Instructions: During the assembly and installation of all plumbing systems, the Owner's operating personnel shall be instructed regarding its operation and maintenance. A two (2) hour instruction period shall be provided after completion of project. Operation and maintenance manuals shall be required.

F. Guarantee: All materials and equipment furnished and installed under this Specification shall be guaranteed in writing for one (1) year from the date of acceptance of the building by the Owner.

G. Record Drawings: The Plumbing Subcontractor shall maintain at the job, at all times, a complete and separate set of blackline prints of the Plumbing Drawings of his trade on which he shall mark clearly, neatly, accurately, and promptly as the work progresses. Two CADD disks, AutoCAD 2004 or compatible system as well as reproducible As-Built shall be furnished by the Plumbing Subcontractor at the job completion.

H. Inspection: All work shall be subject to the inspection of the Owner, the Architect and such other inspectors having jurisdiction. A properly executed certificate of inspection shall be provided.

I. Examination of Site: The Plumbing Subcontractor, before submitting prices or beginning work, shall thoroughly examine the site and Contract Documents. No claim for extra compensation will be recognized if difficulties which an examination of site conditions and Contract Documents prior to executing Contract would have revealed.

J. Coordination: Coordinate all work installed under this Specification with that of all other trades.

K. Protection of Property: Protect all new and existing work before, during and after installation.

L. Disinfection: All domestic water systems shall be disinfected in accordance with the local Public Health and Plumbing Code requirements.

M. Tests: The Plumbing Subcontractor shall perform all tests at the completion of the work, and the results furnished to the Owner and Architect in writing.

N. Certificates of Approval: Upon completion of all work, the Plumbing Subcontractor shall furnish, in duplicate, certificates of inspections from all inspectors and authorities having jurisdiction, notarized letters from the manufacturers stating that authorized factory engineers have inspected and tested the installation of their respective systems and found same to be in perfect operating condition.

O. Contract Drawings: The Contract Drawings are diagrammatic and indicate only the general arrangements of work. It is not the intent of these Drawings to show every pipe, rise, drop, elbow, etc. Any additional work not shown and required to install the plumbing systems shall be included as part of this Contract.

P. Removal Work: Particular care shall be taken to avoid creating hazards on the site or causing disruption of service in the building. All existing equipment to be removed shall be done in a neat and workmanlike manner. All existing equipment to be turned over to the Owner shall be presented to the Owner in good condition at a location designated by the Owner. All other equipment shall be removed from the premises. Remove all abandoned piping and equipment not built into building construction. Where ceiling or walls are removed, all abandoned piping shall be removed and ends of live services capped. Abandoned elements built into walls or located above existing inaccessible ceilings shall remain and ends capped and marked abandoned.

Q. Continuity of Services: Services shall be maintained in all areas which will be occupied during the construction period. When an interruption of service becomes necessary, such shall be made only upon consent of the Owner at a time outside normal working hours as he shall designate. Refer to the overall scheduling of the work of the project. Schedule work to conform to this schedule and install work to not delay nor interfere with the progress of the project.

R. Seismic Restraints: Installation of Plumbing equipment, accessories and components shall be in accordance with the Seismic Requirements identified in the Maine State Building Code.

SCOPE

A. The work of this Section consists of all labor, materials and equipment required to provide all Plumbing work complete, in place, as shown on the Drawings, specified herein and as necessary for a proper installation.

B. The extent of the Plumbing work shall include, but not be limited to the following:

- Alterations, additions and/or removal of existing plumbing systems and fixtures within the renovated area in order to conform to new space requirements.
- Installation of toilet room accessories.
- Core Drilling.
- Insulation of all existing cold water, hot water, hot water recirculation and conductors systems piping, valves and fittings made bare as a result of asbestos abatement. When connecting to existing insulated systems provide new insulation for three feet on either side of the new connection.
- Furnishing of Access Panels.

III RELATED WORK

A. The following equipment items and work shall be the responsibility of others:

- Cutting and Patching
- Flashing and Caulking
- Finish Painting
- Heating, Ventilating and Air Conditioning
- Fire Protection
- Electrical Power and Wiring
- Furnishing of Toilet Room Accessories
- Installation of Access Panels
- Food Service Equipment

IV MATERIALS

A. Pipe and Fittings

- Type A: (Potable and Non-potable Water)

Type K hard drawn copper tubing with wrought copper sweat fittings joined with approved 95/5 lead free tin antimony solder.

- Type B: (Potable and Non-potable Water)

Type L hard drawn copper tubing with wrought copper sweat fittings joined with approved 95/5 lead free tin antimony solder.

- Type C: (Sanitary, Waste and Vent, Storm)

No hub cast iron soil pipe and fittings joined with approved stainless steel mechanical couplings with neoprene gaskets.

- Type D: (Waste and Vent smaller than 2")

Type DWV hard drawn seamless copper tubing with wrought copper drainage fittings joined with 95/5 lead free tin antimony solder.

- Type F: (Vents)

Schedule 40 galvanized steel pipe with galvanized cast iron drainage fittings joined with threaded connections.

6. Pipe and fittings shall be in accordance with the following:

- Cold Water Type A or B
- Hot Water Supply and Recirculation Type A or B
- Sanitary Waste and Vent Type C or F
- Waste and Vent Smaller than 2" Type D
- Indirect Waste Piping 1 1/2" and smaller Type D

B. Insulation

1. All domestic cold and hot water supply and recirculation pipe, fittings and valves shall be insulated with heavy density rigid fiberglass with a vapor barrier and all purpose jacket with self-sealing lap joint. Valves and fittings shall be insulated with Zeston Hi-Lo insulation and covered with 25/50 rated PVC covers secured with vapor retarder mastic.

2. Insulation thickness shall be as follows:

Cold Water = 1/2"
Hot Water Supply up to 4" = 1"

C. Pipe Sleeves, Hangers and Supports

1. All piping shall be properly supported from the building structure in accordance with Local Codes and manufacturer's recommendations. Hangers for insulated piping shall be oversized and furnished with a sheetmetal insulation shield to allow the insulation to pass through uncut.

D. Valves

1. All shut off valves on cold water, hot water, and hot water recirculation piping from 1/2 inch up to and including 2 inch shall be Apollo Series 77-200, solder end, bronze body ball valve, chrome-plated bronze ball, 600 psi WOG, full port ball valve.

2. All shut off valves on cold water, hot water and hot water recirculation piping 1/2 inch, shall be Apollo Series 70-200, solder end, bronze body ball valve, chrome-plated bronze ball, 600 psi WOG.

3. All check valves on cold water, hot water and hot water recirculation piping three inches and less in size shall be Nibco Figure No. S-413-W, solder end, bronze body swing check, bronze disc, 200 psi WOG.

4. All drain valves shall be 1/2 inch Apollo Model 78-103 with Watts No. 8A hose connection vacuum breaker, cap with chain of length as required.

I. Plumbing Fixtures

In general, all plumbing fixtures shall have chrome-plated faucets, stops and traps. All supply stop valves shall be brass body and stem and have threaded or sweat solder inlet. Provide wall escutcheons. Fixtures and trim shall be supplied by the kitchen equipment contractor and installed by the plumbing contractor.

1. All lavatory or "handwashing sink" controls, where applicable, shall be adjusted by installing Plumber prior to the final inspection. Controls shall be set to deliver water at a maximum temperature of 110 degrees F, were faucet temperatures can not be set at faucet, provide powers point of-use mixing valve.

K. Cleanouts

1. Cleanouts shall be iron body with heavy brass plug and raised nut, same size as pipe for piping up to four inches and not less than four inches in size for piping larger than four inches and closed gas tight. End cleanouts on polypropylene piping shall be Fusel fitting cleanout adapter with threaded plug.

L. Water Hammer Arrestors (Shock Absorbers)

1. Maintenance-free water hammer arrestors shall be furnished and installed in accessible locations at all locations in the water systems where quick acting valves are installed as well as wherever hammer may occur.

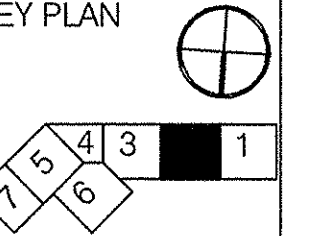
2. Water hammer arrestors shall be similar to the following Joy R. Smith model numbers. Sizing and placement shall be in accordance with PDI Standard PDI-WH-201 and the manufacturer's recommendations.

Type	Fixture Unit Ratings	Model
SA-A	1-11	Joy R. Smith 5005
SA-B	12-32	Joy R. Smith 5010
SA-C	33-60	Joy R. Smith 5020

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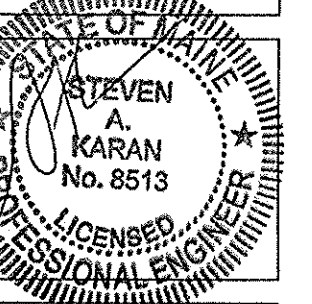


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PLUMBING
SPECIFICATIONS

P2.0

LEGEND

- MOUNTING HEIGHTS SHALL BE AS INDICATED UNLESS SHOWN OTHERWISE ON ELECTRICAL DRAWINGS OR ARCHITECTURAL ELEVATIONS
- ALL SYMBOLS MAY NOT BE SHOWN ON PLANS

RACEWAYS AND WIRING

PP-1 SINGLE PHASE HOMERUN TO PANELBOARD. "PP" DENOTES PANEL, "1" DENOTES CIRCUIT NUMBER, (1) 20 AMP, 1 POLE CIRCUIT MINIMUM 2#12 & 1#12G IN 3/4" UNLESS INDICATED OTHERWISE.

NOTES:
1. GREEN GROUND CONDUCTOR NOT INDICATED BUT SHALL BE INCLUDED IN EACH RACEWAY. SIZE SHALL BE #12AWG UNLESS INDICATED OTHERWISE.

LIGHTING FIXTURES

- LT1 TRACK MOUNTED PENDANT LIGHTING, LENGTH OF TRACK AND QUANTITY OF FIXTURES AS SHOWN ON FLOOR PLANS. "LT1" DENOTES FIXTURE TYPE, "29" DENOTES CIRCUIT NUMBER, "b" DENOTES SWITCH CONTROL,
- LT2 WALL MOUNTED LIGHTING. "LT2" DENOTES FIXTURE TYPE, "29" DENOTES CIRCUIT NUMBER, "a" DENOTES SWITCH CONTROL,
- EBU EMERGENCY BATTERY UNIT (MATCH BASE BUILDING STANDARD)
- ES WALL MOUNTED ILLUMINATED EXIT SIGN - SHADING INDICATES FACE PLATE (MATCH BASE BUILDING STANDARD)

TOGGLE SWITCHES (MOUNTED 48" AFF)

So SINGLE POLE TOGGLE SWITCH. "a" DENOTES FIXTURE CONTROL

RECEPTACLES (MOUNTED 18" AFF OR AS INDICATED ON ARCHITECTURAL PLANS)

- 2 DUPLEX RECEPTACLE, "2" DENOTES CIRCUIT NUMBER,
- 6 DUPLEX RECEPTACLE MOUNTED 6" ABOVE COUNTER TOP OR AS INDICATED ON ARCHITECTURAL PLANS
- 4 SPECIAL PURPOSE RECEPTACLE. SEE POWER PLANS FOR EXACT TYPES USED

TELECOMMUNICATIONS (MOUNTED 18" AFF)

- TELEPHONE OUTLET
- COMPUTER SYSTEM OUTLET
- COMBINATION TELEPHONE/COMPUTER SYSTEM OUTLET

NOTE:
E.C. SHALL PROVIDE A DOUBLE GANG BACK BOX WITH SINGLE GANG REDUCER, 3/4" CONDUIT AND PULLSTRING STUBBED OUT ABOVE ACCESSIBLE CEILING OR AS DIRECTED BY AIRPORT PERSONNEL.

POWER DISTRIBUTION EQUIPMENT

- PANELBOARD, SURFACE MOUNTED
- JUNCTION BOX, SIZED PER NEC

FIRE ALARM SYSTEM

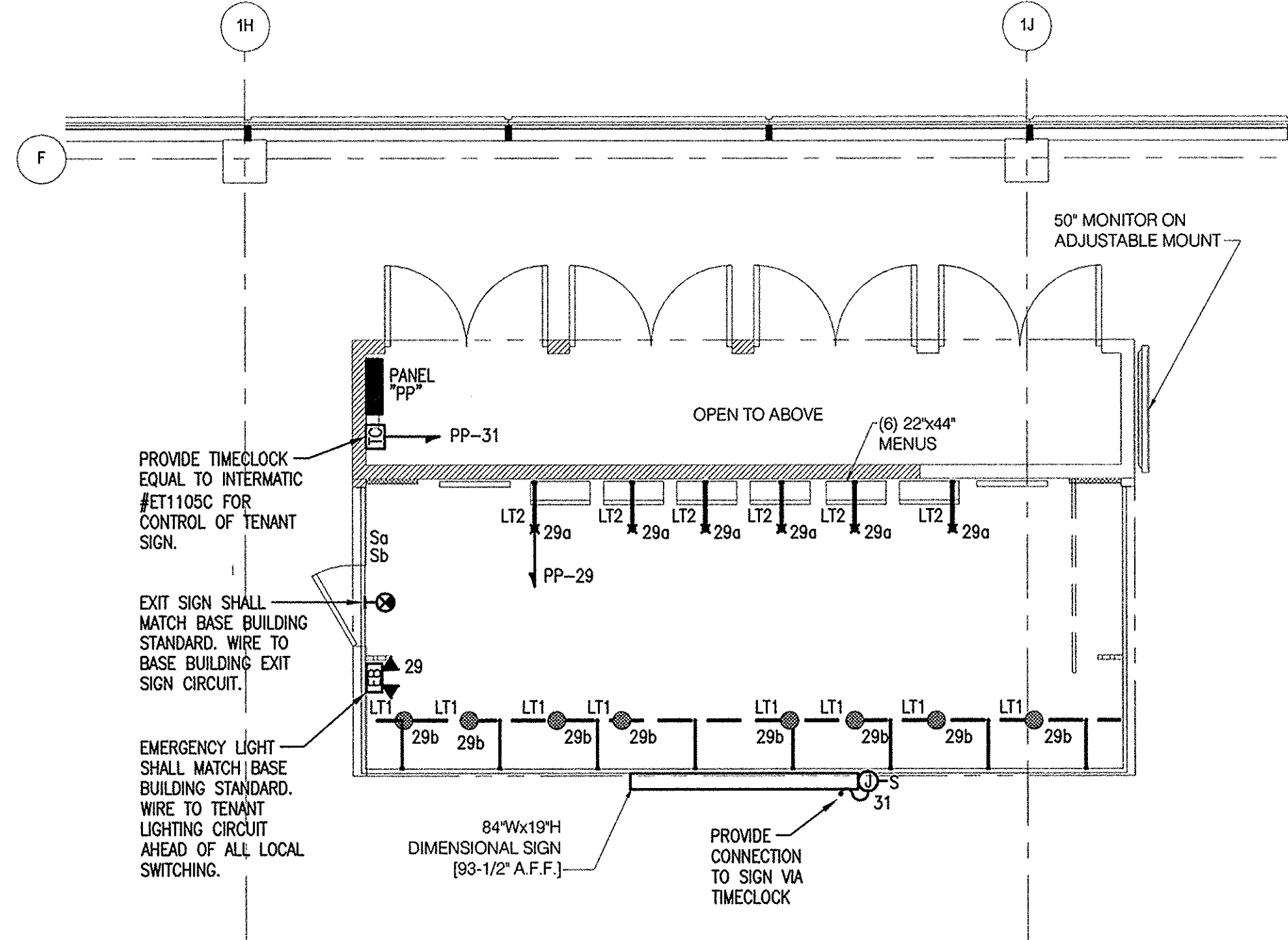
- MANUAL PULL STATION MOUNTED 48" AFF
- AUDIO/VISUAL ALARM MOUNTED 80" AFF.
- PHOTOELECTRIC SMOKE DETECTOR
- REMOTE ALARM INDICATOR

MISCELLANEOUS

- JUNCTION BOX WITH FLEXIBLE CONNECTION TO EQUIPMENT
- CABLE TELEVISION OUTLET, WALL MOUNTED. COORDINATE MOUNTING HEIGHT WITH ARCHITECT
- TIMELOCK

ABBREVIATIONS

- A AMPERES
- AFF ABOVE FINISHED FLOOR
- AIC AMPERE INTERRUPTING CAPACITY
- AWG AMERICAN WIRE GAUGE
- C CONDUIT
- C/B CIRCUIT BREAKER
- EC ELECTRICAL CONTRACTOR
- ETD EXISTING TO BE DEMOLISHED
- ETR EXISTING TO REMAIN
- G GROUND
- GC GENERAL CONTRACTOR
- GFI GROUND FAULT INTERRUPTER
- KCML ONE THOUSAND CIRCULAR MILS
- KVA KILOVOLT-AMPERES
- KW KILOWATTS
- MCB MAIN CIRCUIT BREAKER
- MLO MAIN LUGS ONLY
- NC NORMALLY CLOSED
- NEC NATIONAL ELECTRICAL CODE
- NL NIGHT LIGHT
- NO NORMALLY OPEN
- NTS NOT TO SCALE
- PH PHASE
- P POLE
- TEL TELEPHONE
- V VOLT
- W WATT



1 LIGHTING PLAN
1/4"=1'-0"

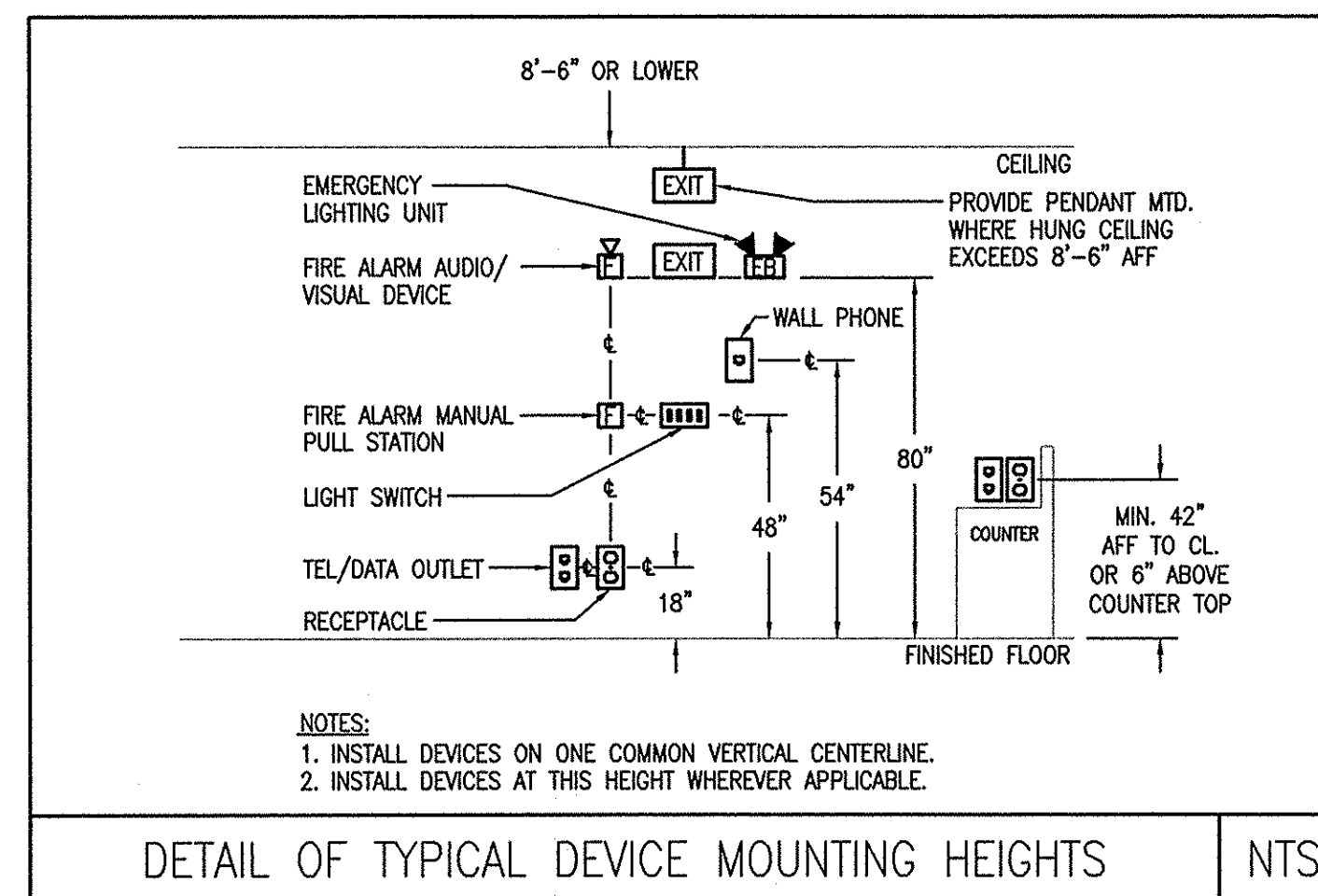
TYPE	DESCRIPTION	MANUFACTURER & CATALOG NUMBER	LAMPS			REMARKS	
			NUMBER	TYPE	WATTS		
LT1	TRACK MOUNTED PENDANT LIGHTING	TECH LIGHTING VINO PENDANT	1	50W HALOGEN	120	50	COORDINATE FINISH AND MOUNTING OPTIONS WITH TENANT
LT2	WALL MOUNTED MENU BOARD LIGHTING	TECH LIGHTING WALL ARCHIE	1	50W HALOGEN	120	50	COORDINATE FINISH AND MOUNTING OPTIONS WITH TENANT

BRANCH CIRCUIT WIRING NOTES:

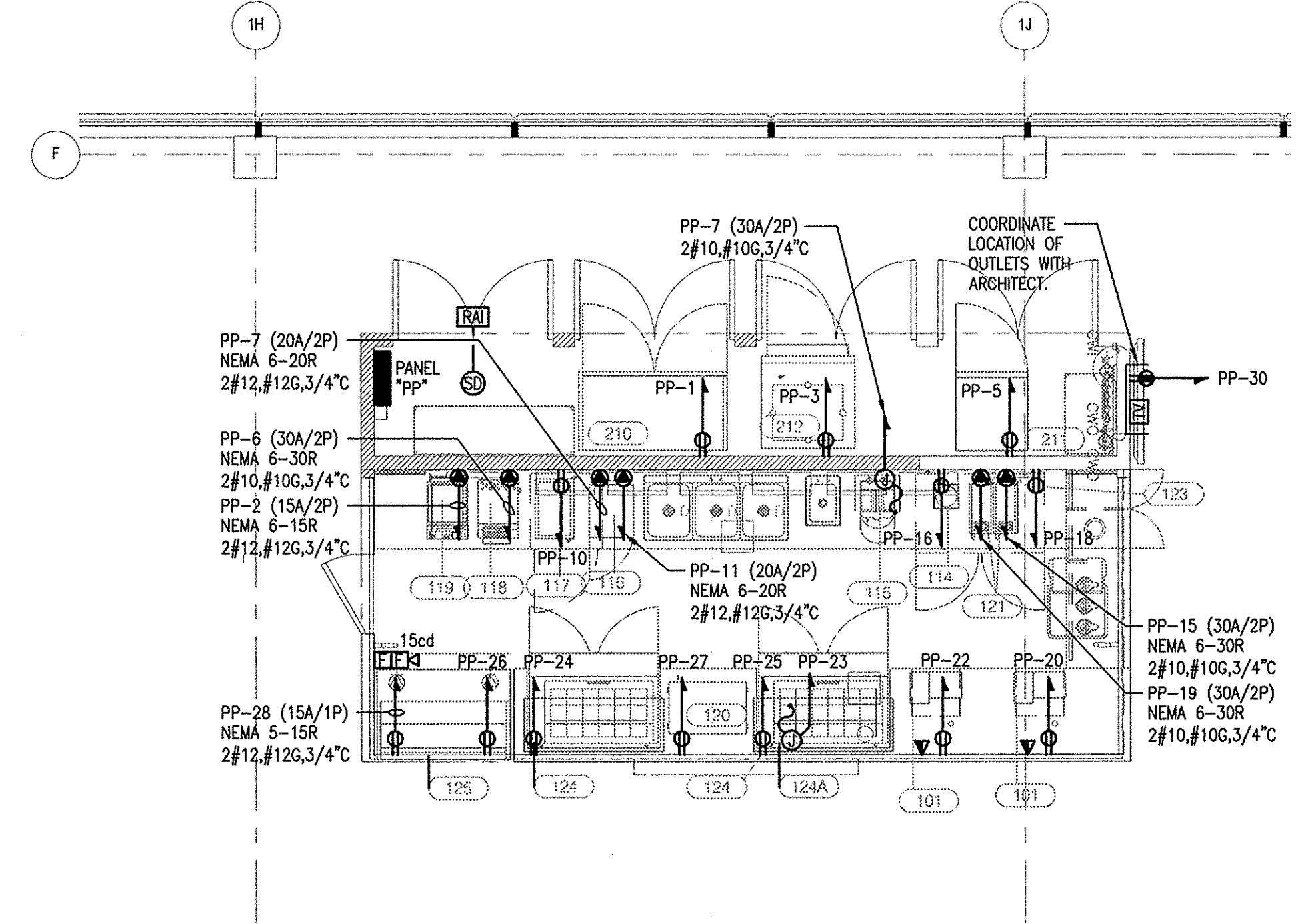
1. WIRING IS SHOWN ON DRAWINGS ONLY FOR SPECIFIC ROUTES OR SPECIAL CONDITIONS.
2. WIRING AND CONDUIT SHALL BE REQUIRED BETWEEN ALL OUTLETS INDICATED WITH CIRCUIT NUMBERS AND PANEL DESIGNATIONS.
3. ALL SWITCH CONTROLS SHALL BE PROVIDED WITH WIRING AND CONDUIT AS REQUIRED.
4. ALTHOUGH ALL BRANCH CIRCUIT WIRING AND CONDUIT IS NOT SHOWN, IT IS THE INTENT OF THESE DOCUMENTS THAT A COMPLETE BRANCH CIRCUIT WIRING SYSTEM BE INSTALLED.
5. A GREEN GROUNDING CONDUCTOR SHALL BE RUN WITH ALL CIRCUITS. VERIFY CONDUIT SIZE TO ENSURE IT CAN ACCOMMODATE ALL PHASE, NEUTRAL AND GROUND CONDUCTORS.
6. ALL 15A AND 20A, 125V RECEPTACLES IN NON-DWELLING TYPE KITCHENS MUST BE GFCI PROTECTED PER NEC ARTICLE 210.8(B)(2).

LIGHTING FIXTURE NOTES:

1. PROVIDE ACCESSORIES AND MOUNTING HARDWARE FOR ALL FIXTURES.
2. COLORS SHALL BE AS SELECTED BY ARCHITECT.
3. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
4. ALL COMPACT FLUORESCENT BALLASTS SHALL BE ELECTRONIC TYPE.
5. ALL FLUORESCENT LAMPS SHALL BE 3500°K.



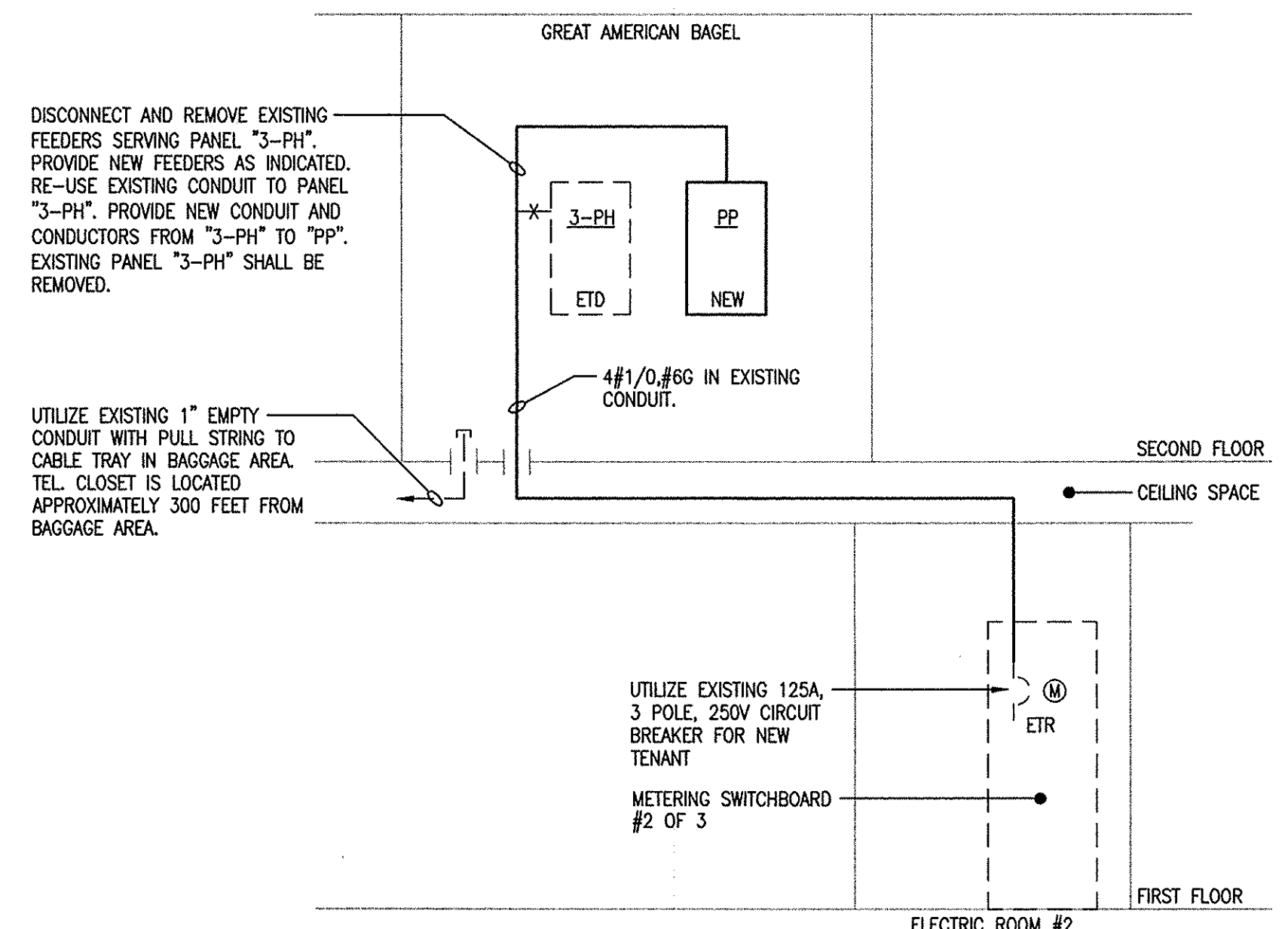
DETAIL OF TYPICAL DEVICE MOUNTING HEIGHTS NTS



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

PANEL DESIGNATION	VOLTS	PHASE	WIRES	PANELBOARD SCHEDULE											REMARKS				
				MLO: MAIN LUGS ONLY	MCB: MAIN CKT. BKR.	BRANCH DEVICES							TOTAL POLES	MOUNTING SURFACE		GROUND BUS			
				BUS SIZE	OVERCURRENT DEVICE	TRIP AMPS	15	20	25	30	40	50	60	70	+	S	✓		
PP	120/208	3	4	200	200	125	1	1	2	1	2	4				42	S	✓	

* INCLUDES SPACES

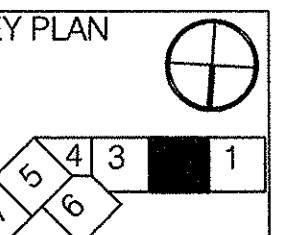


3 Electrical Power Riser Diagram
No Scale

Item	Date
PERMIT	9/8/11

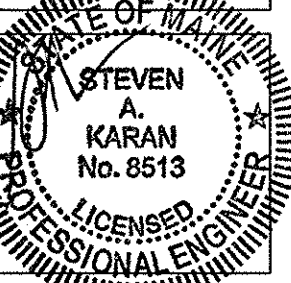


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ELECTRICAL PLANS

E1.0

ELECTRICAL SPECIFICATIONS

PART 1 - GENERAL

- 1.01 GENERAL REQUIREMENTS
A. THESE SPECIFICATIONS AND DRAWINGS ARE INTENDED TO SERVE JOINTLY AS A BASIS UPON WHICH THE CONTRACTOR SHALL SUBMIT A PRICE FOR MATERIAL AND LABOR PROVISIONS.
B. IT IS NOT INTENDED THAT THE PLANS OR SPECIFICATION SHOW OR STATE EVERY DETAILED REQUIREMENT OF THE WORK...

- 1.04 CODES, PERMITS, AND INSPECTIONS
A. ELECTRICAL WORK SHALL COMPLY WITH THE APPLICABLE REQUIREMENTS OF THE STATE ELECTRICAL CODE, LOCAL ORDINANCES, AND OTHER AUTHORITIES EXERCISING JURISDICTION OVER ALL ELECTRICAL CONSTRUCTION WORK AND THE PROJECT.
B. NOTHING CONTAINED IN THESE SPECIFICATIONS OR PLANS SHALL BE SO CONSTRUED AS TO CONFLICT WITH ANY LOCAL, MUNICIPAL, AND NATIONAL CODES OF THE FIRE UNDERWRITERS REGULATIONS GOVERNING THE INSTALLATION OF WORK SPECIFIED HEREIN...

- D. ELECTRICAL RACEWAY AND SUPPORTING SYSTEMS SHALL BE FURNISHED AND INSTALLED COMPLETELY, WITH ALL MATERIALS, FITTINGS, CONNECTIONS AND ACCESSORIES NECESSARY TO PROVIDE IN EACH INSTANCE A COMPLETE OPERATING INSTALLATION, AS DESCRIBED HEREIN, AS INDICATED ON THE DRAWINGS, AND/OR AS APPROVED BY THE BUILDING MANAGER OR OWNER.
E. THE DRAWINGS ARE DIAGRAMMATIC AND GENERALLY INDICATIVE OF THE WORK TO BE INSTALLED, BUT DO NOT SHOW ALL BENDS, FITTINGS, AND BOXES WHICH MAY BE REQUIRED...

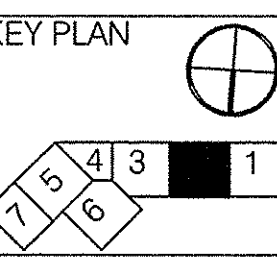
- 2.06 FASTENINGS, SUPPORTS, AND HANGERS
A. ALL PARTS OF THE ELECTRICAL INSTALLATION SHALL BE ADEQUATELY SUPPORTED FROM THE BUILDING CONSTRUCTION USING APPROVED CLAMP SCREWS WITH THE INSERTS OF EXPANSION ANCHORS, EXPANSION BOLTS AND TOGGLE BOLTS.
B. ALL FASTENING, SUPPORTS, CLAMPS, ANCHORS, AND SIMILAR ITEMS SHALL BE OF TYPE SUITABLE FOR THE PURPOSE.
2.07 WIRING DEVICES
A. ALL DEVICES SHALL BE SPECIFICATION GRADE, U.L. APPROVED.
B. SINGLE POLE SWITCH, 20 AMP, 120/277 VOLTS, HUBBELL CAT# HBL1221.

- 2.12 FIRE ALARM EXISTING EQUIPMENT
A. THE EXISTING FACILITY IS EQUIPPED WITH A FIRE ALARM SYSTEM WHICH IS TO BE EXPANDED IN THE WORK AREA. ALL NEW EQUIPMENT SHALL BE OF THE SAME MANUFACTURER AS OF THE EXISTING SYSTEM, INCLUDING PULL STATIONS, SMOKE DETECTORS, DUCT SMOKE DETECTORS, AND AUDIBLE/VISUAL SIGNALS, ETC. ALL NEW VISUAL APPLIANCES SHALL BE SYNCHRONIZED WITH EXISTING APPLIANCES.
B. IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO REVIEW THE SCOPE OF WORK AND PROPOSED EQUIPMENT WITH THE SUPERINTENDENT OF FIRE ALARMS FOR THE CITY PRIOR TO PURCHASE AND INSTALLATION...

- 2.13 FIRESTOPPING, SMOKEPROOFING AND WATERPROOFING
A. PROVIDE FIRESTOP OR SMOKESTOP BETWEEN SLEEVES AND LOCAL MANUFACTURED BY BIO FIRE SHIELD, INC., OR DOW CORNING CORP. AS FOLLOWS:
1. DOW CORNING SILICONE RTV FOAM.
2. DOW CORNING 96-081 RTV SILICONE ADHESIVE SEALANT.
3. MINERAL FIBER BOARD, MATTING AND PUTTY.
B. PROVIDE WATERPROOFING OF ALL MATERIALS WHICH PENETRATE A FLOOR, EXTERIOR WALL SLAB OR ROOF. ALL SLEEVES SHALL EXTEND A MINIMUM OF 3 INCHES ABOVE FLOOR OR ROOF.

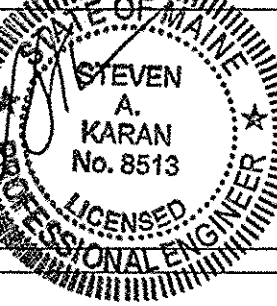
PART 3 - EXECUTION

- 3.01 DEMOLITION AND REMOVAL WORK
A. REMOVE ALL ELECTRICAL EQUIPMENT, WIRING AND OTHER ELECTRICAL WORK AS REQUIRED, DISCONNECT LOAD AND LINE END OF CONDUCTORS FEEDING DEVICES WHICH ARE TO BE REMOVED OR ABANDONED, REMOVE CONDUCTORS NO LONGER IN USE, CUT BACK TO FLOOR, WALL, OR CEILING AND PLUS BOTH ENDS OF CONCEALED CONDUITS MADE OBSOLETE BY THIS ALTERATION, REMOVE EXPOSED OR ABANDONED CIRCUITS AND OUTLETS, REMOVE MATERIAL AND EQUIPMENT AND DISPOSE OF AS DIRECTED.
B. WHEREVER IT IS REQUIRED TO DISCONNECT OR REMOVE ANY PART OF AN EXISTING CIRCUIT, IMMEDIATELY RECONNECT THAT CIRCUIT OR REESTABLISH SERVICE IN THE REMAINING PORTION OF THE CIRCUIT.



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ELECTRICAL SPECIFICATIONS

E2.0