

**GENERAL PROJECT NOTES**

**SUMMARY OF WORK**

INTERIOR REMODELING OF EXISTING 6028SF RESTAURANT TO A NEW BBQ STEAKHOUSE RESTAURANT. PROVIDE ALL NECESSARY ARCHITECTURAL, ELECTRICAL AND PLUMBING WORK. THE EXIST'G MECHANICAL WORK TO REMAIN NO CHANGE AND NO WORK.

**GENERAL INSTRUCTIONS**

THESE DRAWINGS ARE SCOPE DOCUMENTS INDICATING THE GENERAL PROJECT DESIGN CONCEPT, DIMENSIONS OF THE PROJECT, MAJOR ARCHITECTURAL ELEMENTS, AND BASIC ORGANIZATION OF MECHANICAL, ELECTRICAL AND PLUMBING SYSTEMS. AS SCOPE DOCUMENTS, THESE DRAWINGS DO NOT NECESSARILY DESCRIBE OR INDICATE ALL MATERIALS OR WORK REQUIRED FOR FULL PERFORMANCE AND COMPLETION OF THE PROJECT. ON THE BASIS OF THE GENERAL SCOPE INDICATED OR DESCRIBED, THE CONTRACTOR(S) SHALL FURNISH ALL ITEMS REQUIRED FOR PROPER EXECUTION AND COMPLETION OF THE PROPOSED PROJECT. THE ARCHITECT IS NOT RESPONSIBLE FOR THE FAILURE OF THE CONTRACTOR(S) TO EXECUTE NECESSARY WORK OR TO SUPPLY REQUIRED MATERIALS FOR PROPER COMPLETION OF THIS PROJECT. FURTHER MORE THE ARCHITECT MAKES NO WARRANTY EXPRESSED OR IMPLIED ON THESE DOCUMENTS.

DUE TO THE NATURE OF THIS WORK THE ARCHITECT DOES NOT WARRANT THE EXISTING CONDITIONS AS DEPICTED IN THESE DRAWINGS AS BUILT CONDITIONS. THE MEASUREMENTS ON THESE DRAWINGS ARE REASONABLY ACCURATE FOR THE PURPOSE OF "FIGURING." HOWEVER, IN THE EXECUTION OF WORK ON THE JOB, DO NOT SCALE DRAWINGS. EACH CONTRACTOR IS REQUIRED TO VERIFY ALL DIMENSIONS WITH THE ACTUAL CONDITIONS AND TO REPORT ANY DISCREPANCIES TO THE ARCHITECT, OWNER, OR THE OWNER'S REPRESENTATIVE.

CONTRACTOR SHALL OBTAIN AND PAY FOR ANY PERMITS AND FEES REQUIRED TO PERFORM THE WORK, UNLESS DIRECTED OTHERWISE BY OWNER.

EACH CONTRACTOR SHALL BE RESPONSIBLE FOR STORAGE AND SAFETY OF HIS OWN MATERIALS AND WORK, AND FOR PROPERLY REMOVING HIS DEBRIS FROM THE JOB SITE. GENERAL CONTRACTOR (GC) SHALL PROVIDE FOR ALL SITE DEMOLITION AND DEBRIS REMOVAL REQUIRED TO PERFORM NEW CONSTRUCTION WHILE ADEQUATELY MAINTAINING THE PREMISES AND ADJACENT PREMISES TO INSURE NORMAL OCCUPANCY AND SECURITY. THE GC SHALL COORDINATE PROPER TRANSPORTATION AND STORAGE OF BUILDING MATERIALS ON THE SITE TO AVOID OVERLOADING OF EXISTING FLOOR.

CONTRACTORS INSTALLING PIPES, DUCTS AND CONDUIT WILL BE REQUIRED TO DO ALL CUTTING AND PATCHING IN CONNECTION WITH THEIR WORK, INCLUDING EXCAVATION AND DIGGING. THE OWNER WILL ASSUME NO RESPONSIBILITY FOR THE COST OF CHANGES OR EXTRA WORK MADE NECESSARY BY THE FAILURE OF TRADES TO COORDINATE THEIR WORK DURING CONSTRUCTION.

WHERE APPLICABLE THE GC SHALL CONSTRUCT PHYSICAL BARRIERS AROUND AREAS UNDER CONSTRUCTION AS REQUIRED TO ENSURE GENERAL PUBLIC AND PERSONAL SAFETY.

THE GC SHALL SUPERVISE AND DIRECT THE WORK. HE SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES. THE GC SHALL BE RESPONSIBLE FOR COORDINATING ALL PORTIONS OF THE WORK UNDER HIS CONTRACT. ALL WORK SHALL BE COMPLETED USING PRACTICES ACCEPTED AND ENDORSED BY THE CORRESPONDING TRADE INDUSTRIES.

THE TERM "PROVIDE" SHALL MEAN TO FURNISH AND INSTALL.

THE CONTRACT AND SUBCONTRACT AMOUNTS SHALL PROVIDE COMPLETE WORKING MECHANICAL, ELECTRICAL AND PLUMBING SYSTEMS COMMENSURATE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS AND THE APPLICABLE CODES.

WHEN WALLS ARE TO BE "ALIGNED", THE ALIGNMENT OF SUCH WALLS IS TO THE OUTSIDE FINISHED SURFACE, SUCH AS DRYWALL SURFACE.

ALL DIMENSIONS SHOWN ARE TO FINISH FACE OF WALL UNLESS NOTED OTHERWISE. DIMENSIONS AND NOTES FOR A GIVEN CONDITION ARE TYPICAL FOR ALL SIMILAR CONDITIONS UNLESS NOTED OTHERWISE.

WHERE NEW WORK ADJOINS EXISTING, ALL SUCH NEW WORK SHALL BE PROPERLY INTEGRATED WITH THE EXISTING TO ENSURE UNIFORM APPEARANCE. ANY REPAIR WORK REQUIRED TO EXISTING WORK SHOULD BE TAKEN CARE OF BY THE CONTRACTOR - PROVIDING ALL NECESSARY CUTTING, FITTING AND PATCHING AND SHALL FURNISH ALL NECESSARY LABOR AND MATERIALS FOR THIS WORK. ALL WORK REQUIRING SPECIAL DETAILING, AND NOT DETAILED ON THE DRAWINGS SHOULD BE BROUGHT TO THE ATTENTION OF THE ARCHITECT / OWNER.

THE GENERAL CONTRACTOR SHALL COORDINATE ALL TRADES TO AVOID INTERFERENCE, TO PRESERVE MAXIMUM HEADROOM, AND AVOID OMISSIONS.

THE ARCHITECT HAS NO CONTRACTUAL DUTY TO CONTROL MEANS AND METHODS OF THE WORK NOR TO PROVIDE JOB SITE SUPERVISION, ENSURE SAFETY OR CONSTRUCTION MANAGEMENT AND DOES NOT VOLUNTARILY ASSUME ANY SUCH RESPONSIBILITIES.

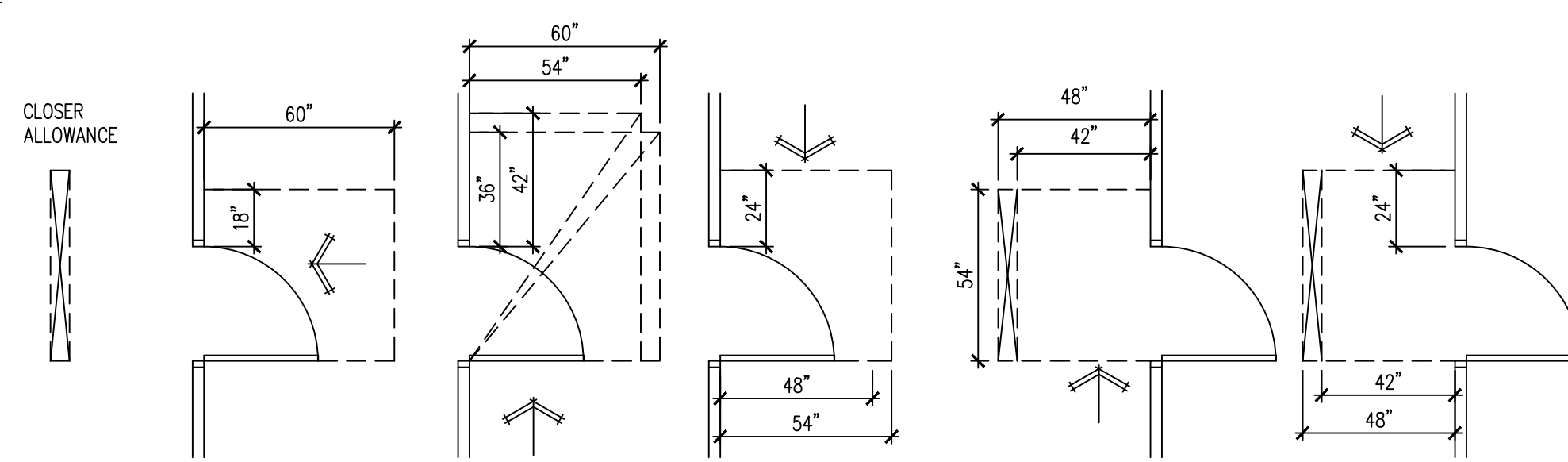
**GARBAGE DUMPSTER & GREASE CONTAINER AT THE BACK OF BUILDING**



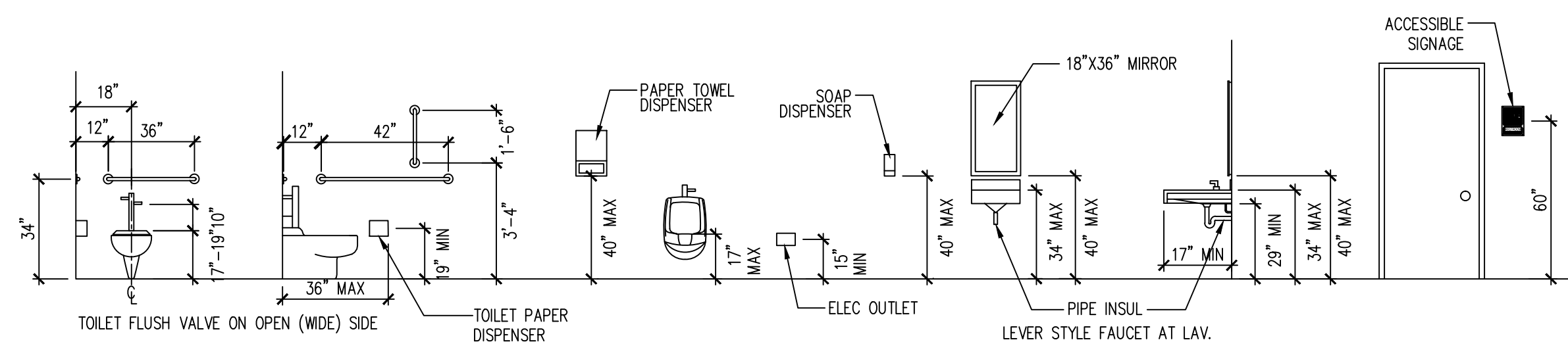
**A SITE PLAN**  
NOT TO SCALE

**ACCESSIBILITY REQUIREMENTS**

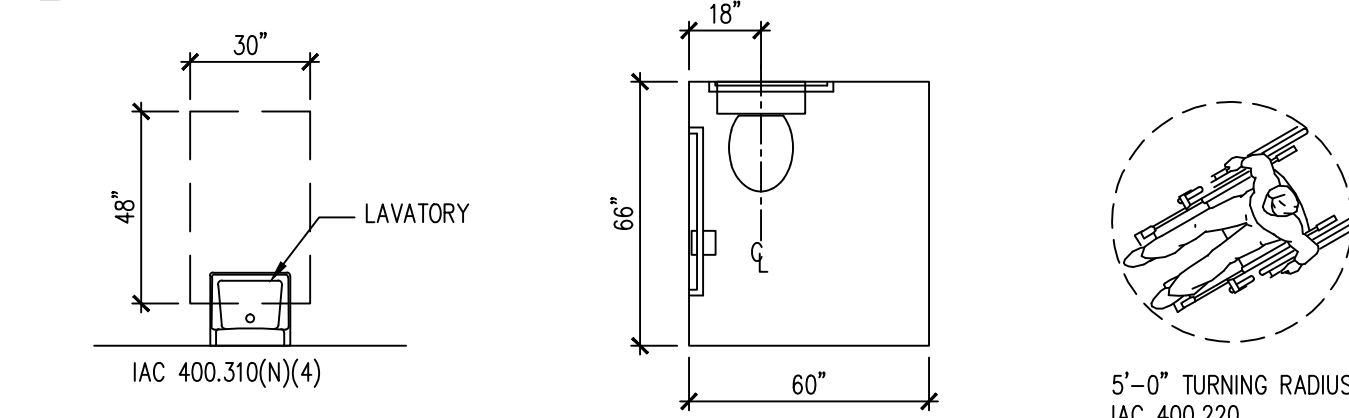
TOILET ROOMS REQUIRED TO BE ACCESSIBLE SHALL CONFORM TO ALL ACCESSIBILITY REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT WHICH INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING:



**B DOOR MANEUVERING CLEARANCE**  
NOT TO SCALE

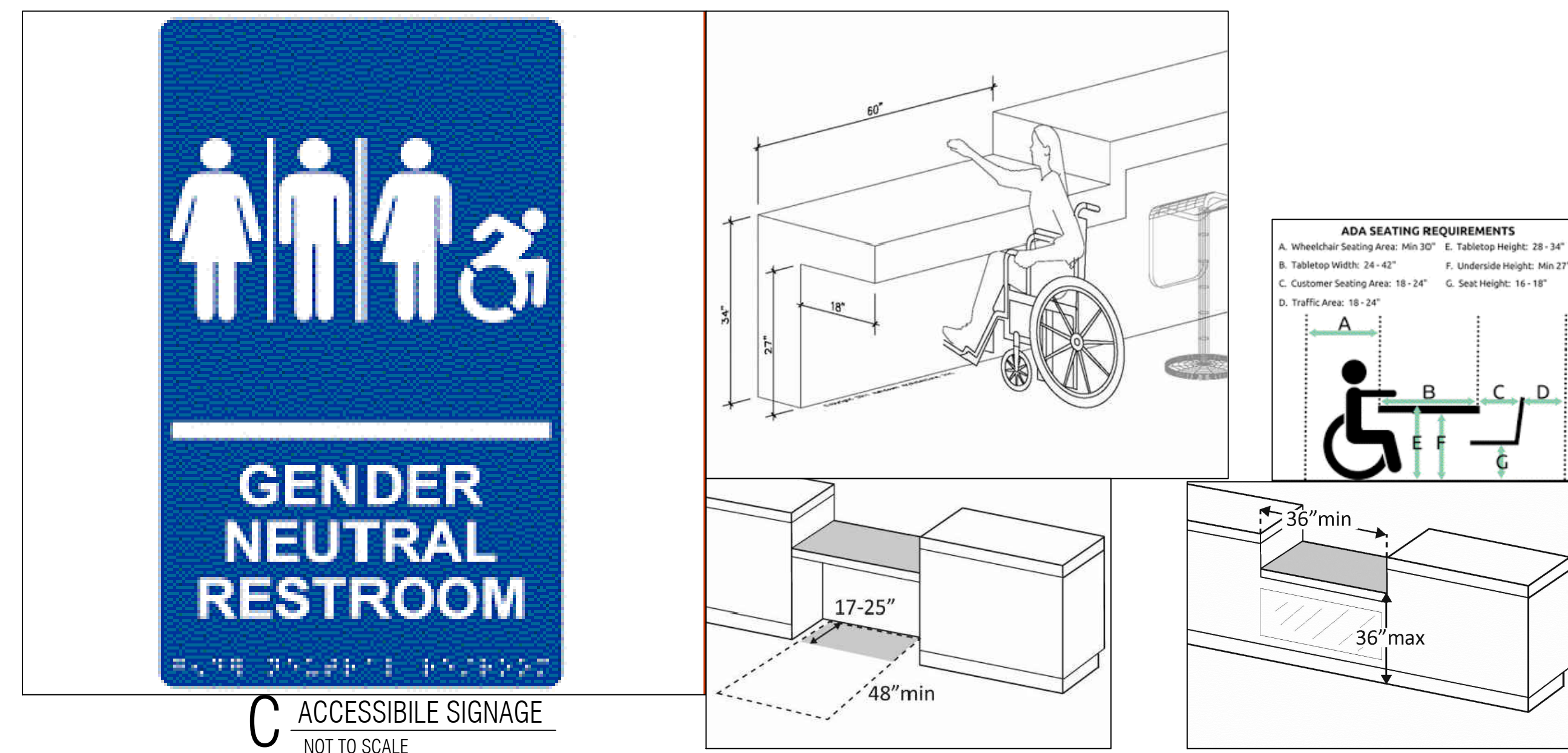


**D ACCESSIBLE MOUNTING HEIGHTS**  
NOT TO SCALE



**E TYPICAL ACCESSIBILITY REQUIREMENTS**  
NOT TO SCALE

Restroom signage to meet 410 ILCS 35/25 requirements



**C ACCESSIBLE SIGNAGE**  
NOT TO SCALE

IAC 400 Section 226.2 refers to dispersion. If a restaurant has a high area, like as in a bar, and at the bar itself, there is no area that is 34", but there is accessible tables adjacent to the bar- does this meet the intent of the code, or should a section of the bar be created in new construction or in an alteration to have an area 34" high to enable accessible seating at the bar itself?

Different types of dining surfaces all need to be accessible. The bar is required to have an accessible area.

Host station verifying IAC 400.227 requirements are met.

Beverage dispenser, ice maker, coffee makers, and similar devices require atmospheric backflow per IDPH 890.1130.

Plumber, general contractor, and plumbing inspector to have site meeting during layout phases to verify code compliant installation.

Verify 5% of lockers are accessible per IAC 400.225.2

PROJECT DATA	
USE GROUP CLASSIFICATION	A-2
CONSTRUCTION TYPE	I-A (EXIST'G)
AREA TOTAL	6028SF
EXIT ACCESS TRAVEL DISTANCE	75 FT MAXIMUM
AUTOMATIC SPRINKLERS	YES, FULLY SPRINKLERED (EXIST'G)
DINING AREA (FIXED SEATS)	182 OCCUPANTS
BAR AREA	6 OCCUPANTS
WAITING AREA	20 OCCUPANTS
KITCHEN AREA	(1850/200) = 10 OCCUPANTS
TOTAL OCCUPANT LOADS	218 OCCUPANTS
MAXIMUM HEIGHT	1 STORY
REQUIRED NUMBER OF EXITS:	3 ACTUAL 4
MINIMUM CORRIDOR WIDTH	48"

**INDEX OF DRAWINGS**

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- M4 DINING TABLE EXHAUST DUCT DETAILS
- M5 EXHAUST FAN ON ROOF DETAILS
- P1 WATER SUPPLY & WASTE RISER DIAGRAM
- G1 DINING TABLE GAS PIPING PLAN

**CODE DATA**

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND MUNICIPAL LAWS, ORDINANCES, STANDARDS AND REGULATORY AGENCIES INCLUDING BUT NOT LIMITED TO THE REQUIREMENTS (INCLUDING LOCAL AMENDMENTS) OF

- 2018 INTERNATIONAL BUILDING CODE
- 2018 INTERNATIONAL FIRE CODE
- 2018 INTERNATIONAL FUEL GAS CODE
- 2018 INTERNATIONAL MECHANICAL CODE
- 2018 INTERNATIONAL EXISTING BUILDING CODE
- 2018 INTERNATIONAL ENERGY CONSERVATION CODE
- 2017 NATIONAL ELECTRICAL CODE
- 2014 STATE OF ILLINOIS PLUMBING CODE
- 2018 ILLINOIS ACCESSIBILITY CODE

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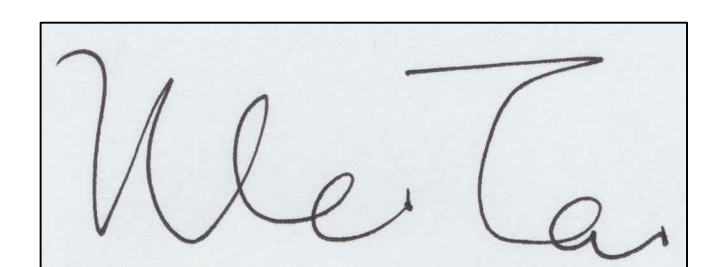
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TOMAHAWK BBQ STEAKHOUSE  
INTERIOR REMODELING  
285 PARKWAY DRIVE LINCOLNSHIRE IL 60069

ISSUES	DATE
ISSUED FOR PERMIT	12/18/2022
REISSUED FOR PERMIT	03/10/2023



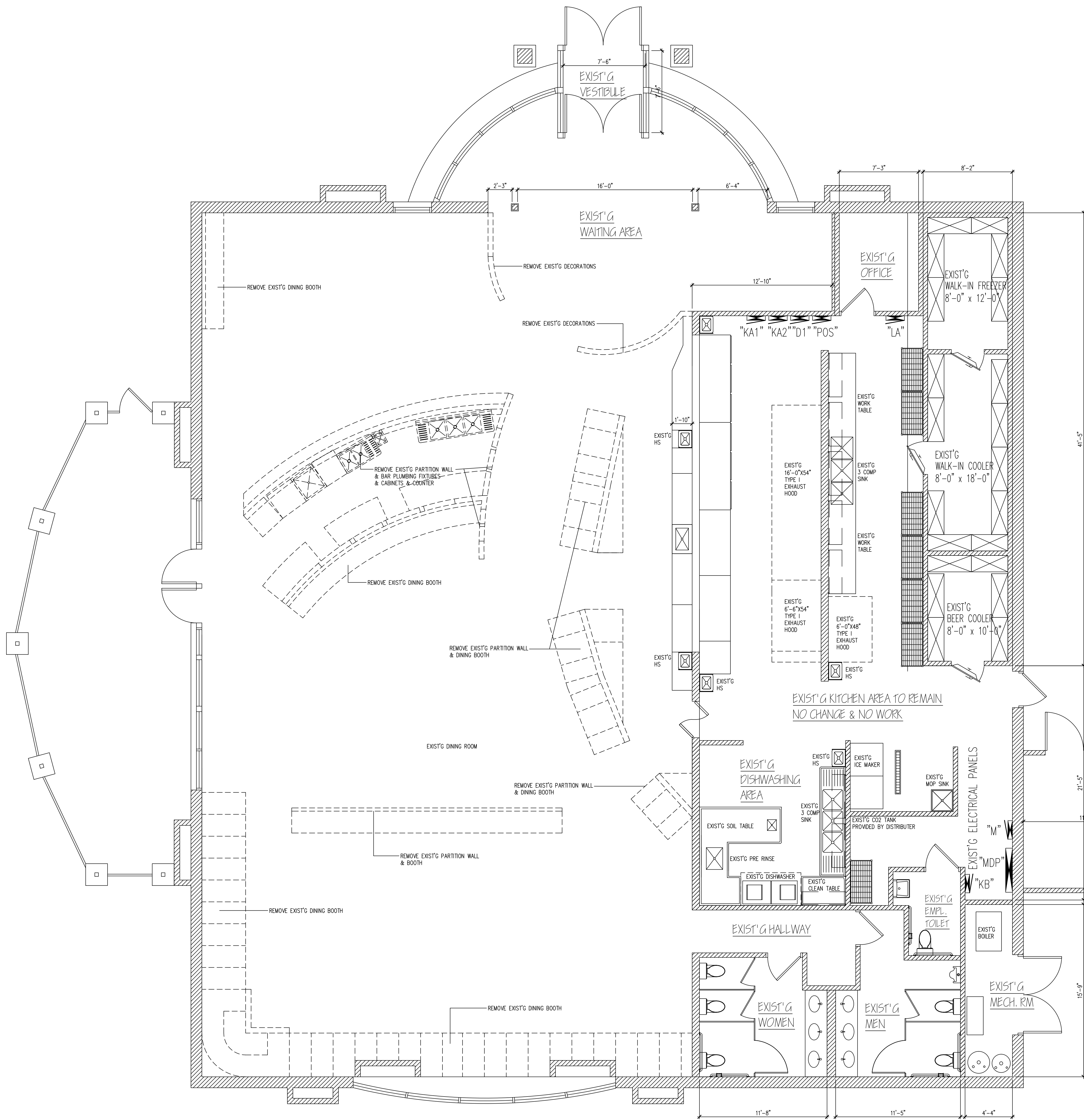
I HEREBY CERTIFY THAT THESE DRAWINGS ARE PREPARED BY ME OR UNDER MY SUPERVISION AND TO THE BEST OF MY KNOWLEDGE CONFORM WITH APPLICABLE CODES.

LIC EXPIRES NOV 30, 2024

**PROJECT NOTES, SITE PLAN**

SHEET NUMBER

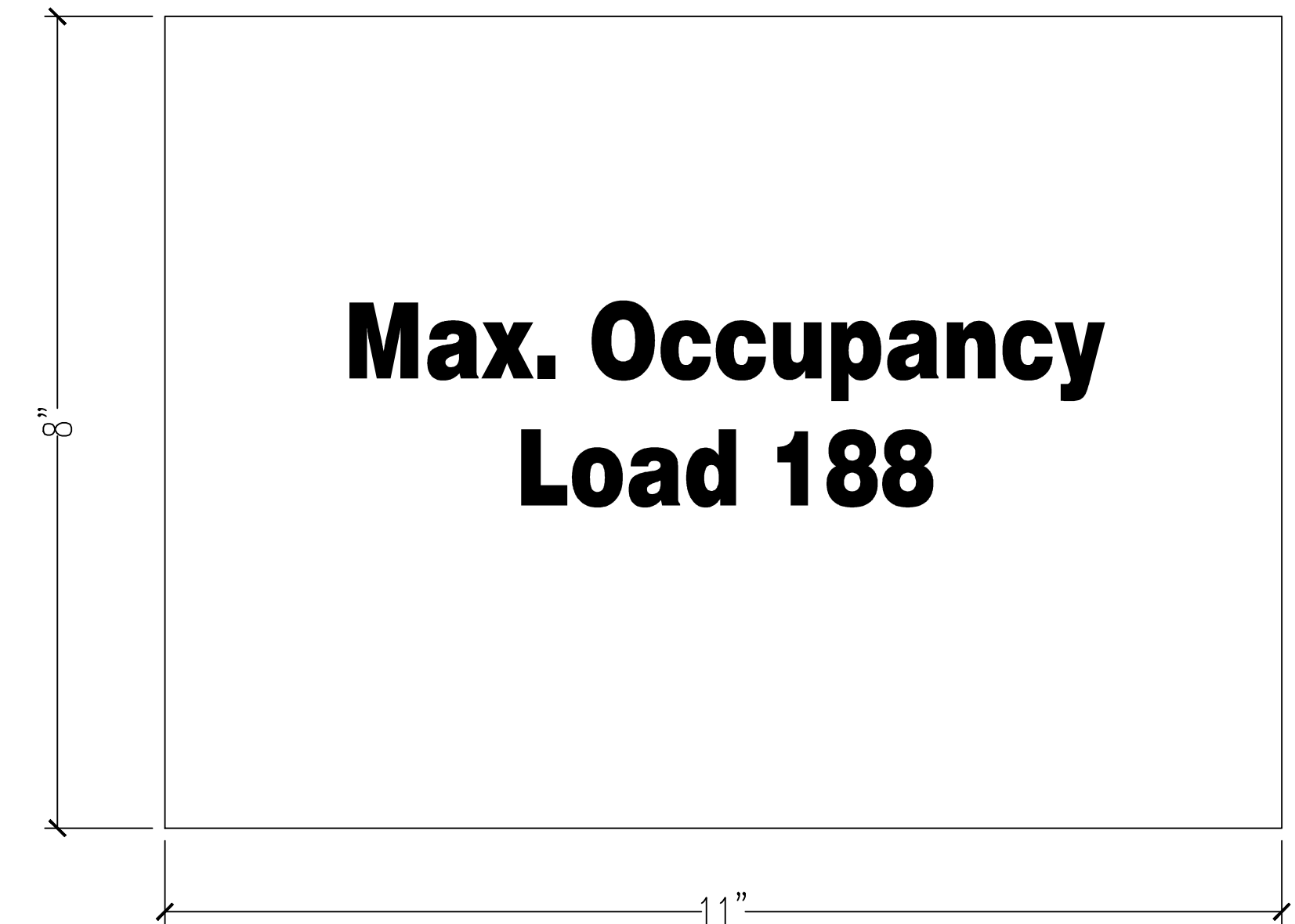
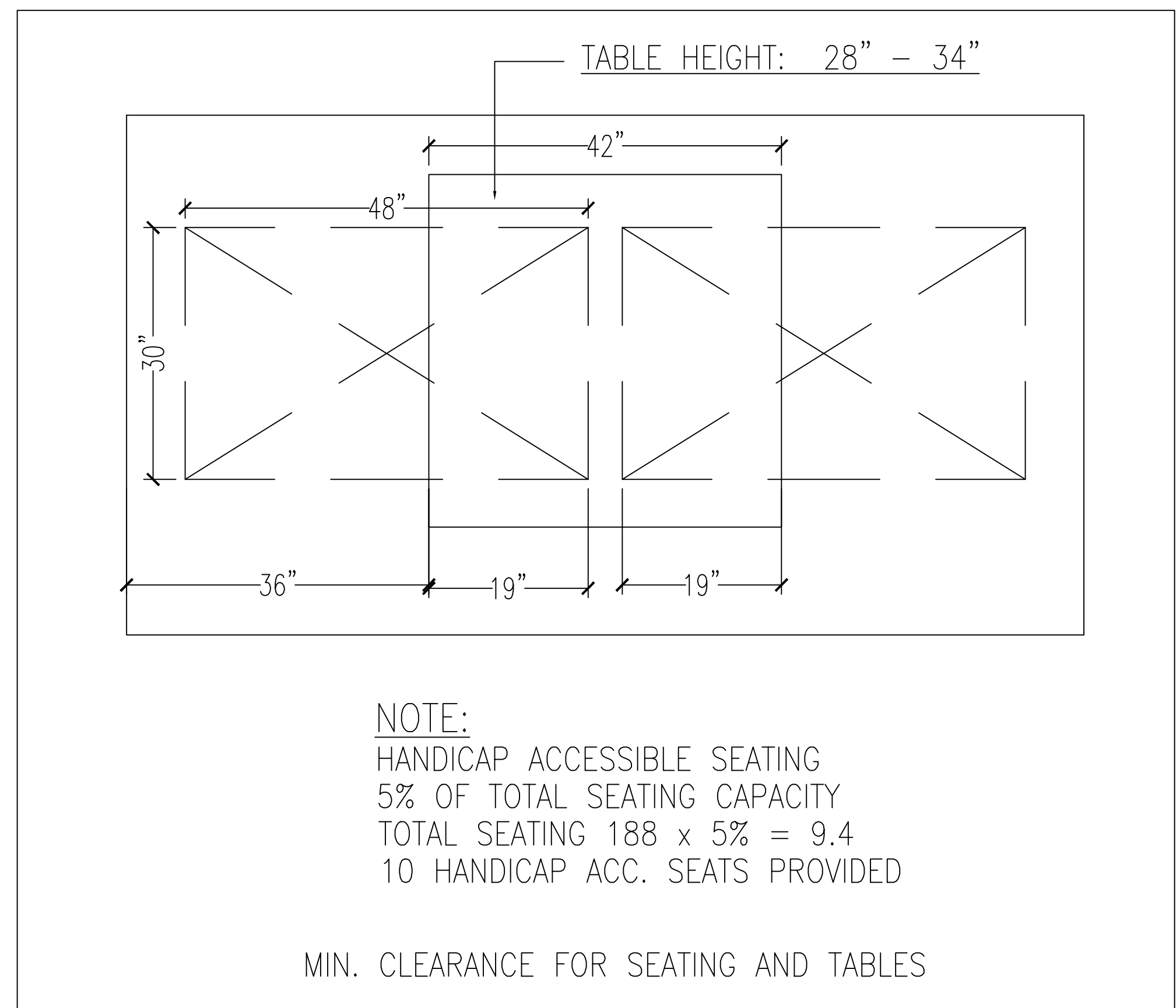
**A0**



**A DEMO PLAN**  
 SCALE 1/4" = 1'-0"  
 EXISTING WALL TO REMAIN   
 DEMO WALL



- FIRE SUPPRESSION PULL STATION MOUNTED AT 44" AFF.
- CLASS "K" FIRE EXTINGUISHER  
(INSTALL MAX. 40" AFF. TO THE TOP OF THE HANDLE)
- MUTIPERPOSE DEY CHEMICAL / ABC EXINGUISHER  
(INSTALL MAX. 40" AFF. TO THE TOP OF THE HANDLE)



SIGN TO BE POSTED IN A CONSPICUOUS PLACE, NEAR THE MAIN EXIT OR EXIT ACCESS DOORWAY FROM THE ROOM OR SPACE. POSTED SIGN SHALL BE APPROVED LEGIBLE PERMANENT DESIGN AND SHALL BE MAINTAINED BY THE OWNER OR AUTHORIZED AGENT

**DEMOLITON NOTES**

CONTRACTOR SHALL PERFORM DEMOLITION AT AREAS INDICATED ON CONTRACT DOCUMENTS. CONTRACTOR SHALL FAMILIARIZE HIMSELF/HERSELF WITH ALL EXISTING CONDITIONS AND INTERFACE BETWEEN AREAS OF DEMOLITION AND EXISTING AREAS TO REMAIN.

ALL CHANGES/MODIFICATIONS SHALL BE SUBMITTED TO THE ARCHITECT FOR APPROVAL BEFORE WORK IS BEGUN. CONTRACTOR SHALL REMOVE ALL EXISTING CONSTRUCTION AS NOTED ON PLANS AND SHALL REMOVE SAID ITEMS OFF SITE UNLESS NOTED OTHERWISE. APPROVAL FROM ARCHITECT/OWNER IS REQUIRED ON THE REUSE OF ANY EXISTING MATERIALS UNLESS OTHERWISE NOTED BEFORE WORK IS BEGUN.

REMOVE PLUMBING FIXTURES, PIPING, LIGHTING, WIRING, AND CONDUIT FROM ALL WALLS AND CEILINGS TO BE DEMOLISHED AND CAP OFF AT POINT OF TERMINATION. IN ALL AREAS WHERE PLUMBING FIXTURES ARE TO BE REMOVED PERMANENTLY, THE FLOORS ARE TO BE BROKEN OUT AROUND PIPING. DRAIN IS TO BE SUFFICIENTLY CAPPED BELOW FINISH FLOOR, AND SLAB IS TO BE REPAIRED TO MATCH EXISTING FLOOR SURFACE. VENTS AND WATER PIPING ARE TO BE ADEQUATELY CAPPED AND LINES REMOVED.

WHERE APPLICABLE REMOVE ALL FLOORING MATERIAL AND ASSOCIATED ADHESIVES. THE FLOOR IS TO BE SMOOTH AND PREPARED FOR NEW FINISHED FLOORING. REMOVE ALL EQUIPMENT IN EXISTING AREA IF APPLICABLE. INCLUDING RACKS, FIXTURES, LIFTS AND ANY RELATED DUCTWORK AND PIPING AS REQUIRED. PATCH ALL FLOORS AND WALLS AS NECESSARY. FOR OPENINGS IN EXISTING WORK, VERIFY EXACT LOCATIONS AND MATERIALS BEFORE PERFORMING WORK. CUTTING OF STRUCTURAL AND BEARING WALLS SHALL NOT BE DONE WITHOUT WRITTEN APPROVAL OF THE ARCHITECT/ENGINEER. CONTRACTOR TO MAKE VERIFICATION OF EXISTING WORK WHERE SHOWN ON DRAWINGS. WORK WHICH IS EXISTING IS ASSUMED TO BE IN PLACE AND SUITABLE FOR THE NECESSARY ALTERATIONS AND/OR ADDITIONS REQUIRED.

03-10-2023

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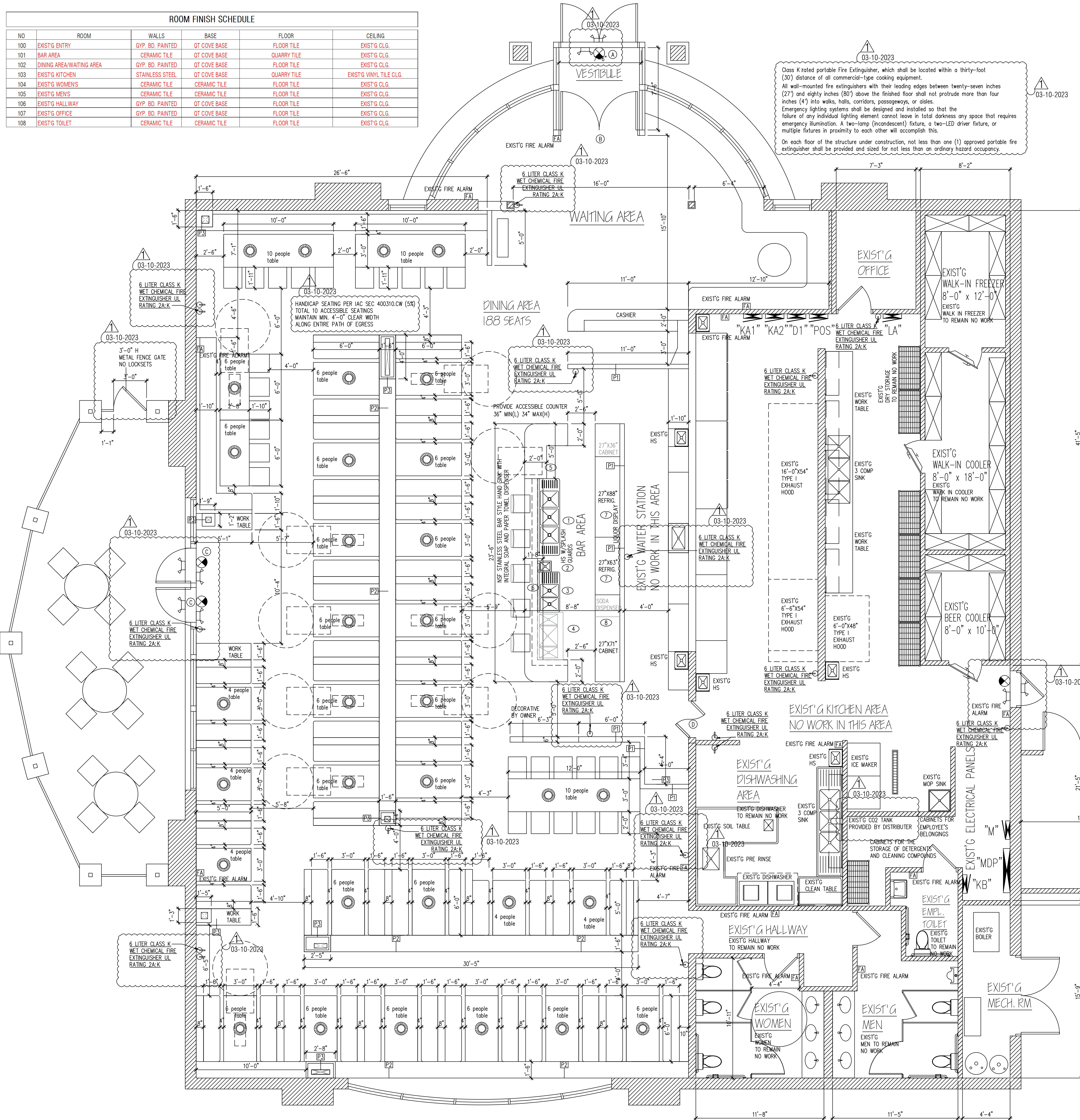


DEMO PLAN & NOTES

SHEET NUMBER

A1

ROOM FINISH SCHEDULE					
NO	ROOM	WALLS	BASE	FLOOR	CEILING
100	EXIST'G ENTRY	GYP. BD. PAINTED	QT COVE BASE	FLOOR TILE	EXIST'G CLG.
101	BAR AREA	CERAMIC TILE	QT COVE BASE	QUARRY TILE	EXIST'G CLG.
102	DINING AREA/WAITING AREA	GYP. BD. PAINTED	QT COVE BASE	FLOOR TILE	EXIST'G CLG.
103	EXIST'G KITCHEN	STAINLESS STEEL	QT COVE BASE	QUARRY TILE	EXIST'G VINYL TILE CLG.
104	EXIST'G WOMEN'S	CERAMIC TILE	CERAMIC TILE	FLOOR TILE	EXIST'G CLG.
105	EXIST'G MEN'S	CERAMIC TILE	CERAMIC TILE	FLOOR TILE	EXIST'G CLG.
106	EXIST'G HALLWAY	GYP. BD. PAINTED	QT COVE BASE	FLOOR TILE	EXIST'G CLG.
107	EXIST'G OFFICE	GYP. BD. PAINTED	QT COVE BASE	FLOOR TILE	EXIST'G CLG.
108	EXIST'G TOILET	CERAMIC TILE	CERAMIC TILE	FLOOR TILE	EXIST'G CLG.



BAR AREA EQUIPMENT SCHEDULE						
NO	QTY	DESCRIPTION	GAS	ELECTRIC	PLUMBING	REMARKS
1	3	COMPARTMENT BAR SINK	-	-	1/2" CW 1/2" HW, 4" INDIRECT DRAIN	NSF W/ ECOLAB PATHWAY TO PREVENT BACKFLOW
2	1	HAND SINK	-	-	1/2" CW 1/2" HW, 2" DRAIN	NSF WALL MOUNTED - SEALED
3	1	2 COMPARTMENT BAR SINK	-	-	1/2" CW 1/2" HW, 4" INDIRECT DRAIN	NSF W/ ECOLAB PATHWAY TO PREVENT BACKFLOW
4	1	ICE BIN	-	-	-	NSF
5	1	ACCESSIBLE COUNTER	-	-	-	NSF
6	1	COUNTER	-	-	-	NSF
7	2	BAR COOLER	-	120V	4A	NSF W/ CASTERS
8	1	SODA DISPENSER	-	-	1/2" CW, 4" INDIRECT DRAIN	NSF

ALL EQUIPMENTS WILL BE NSF APPROVED CLEAN, OPERABLE AND SUBJECT TO THE FINAL APPROVAL BY THE HEALTH DEPARTMENT.

DOOR SCHEDULE							
TAG	DESCRIPTION	FRAME CONSTRUCTION	NOMINAL SIZE W X H	DOOR FINISH	FRAME FINISH	LABEL	COMMENTS
A	STORE FRONT GLASS DOOR	ALUMINUM	8'-0" x 7'-0"	TEMPERED GLASS	ALUMINUM	-	EXIST'G FRONT EXIT DOOR
B	TEMPERED GLASS DOOR	ALUMINUM	8'-0" x 7'-0"	TEMPERED GLASS	ALUMINUM	-	EXIST'G
C	STORE FRONT GLASS DOOR	ALUMINUM	8'-0" x 7'-0"	TEMPERED GLASS	ALUMINUM	-	EXIST'G
D	ALUMINUM DOOR	ALUMINUM	4'-0" x 7'-0"	PAINT	ALUMINUM	-	DOUBLE ACTION EXIST'G

\* ALL EXIT DOORS MUST OPEN WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE FROM THE SIDE WHICH EGRESS IS MADE  
 \* LEVERED HANDLE HARDWARE AS REQUIRED BY ILLINOIS ACCESSIBILITY CODE  
 \* PROVIDE DOOR CLOSERS ALONG ALL ACCESSIBLE ROUTES

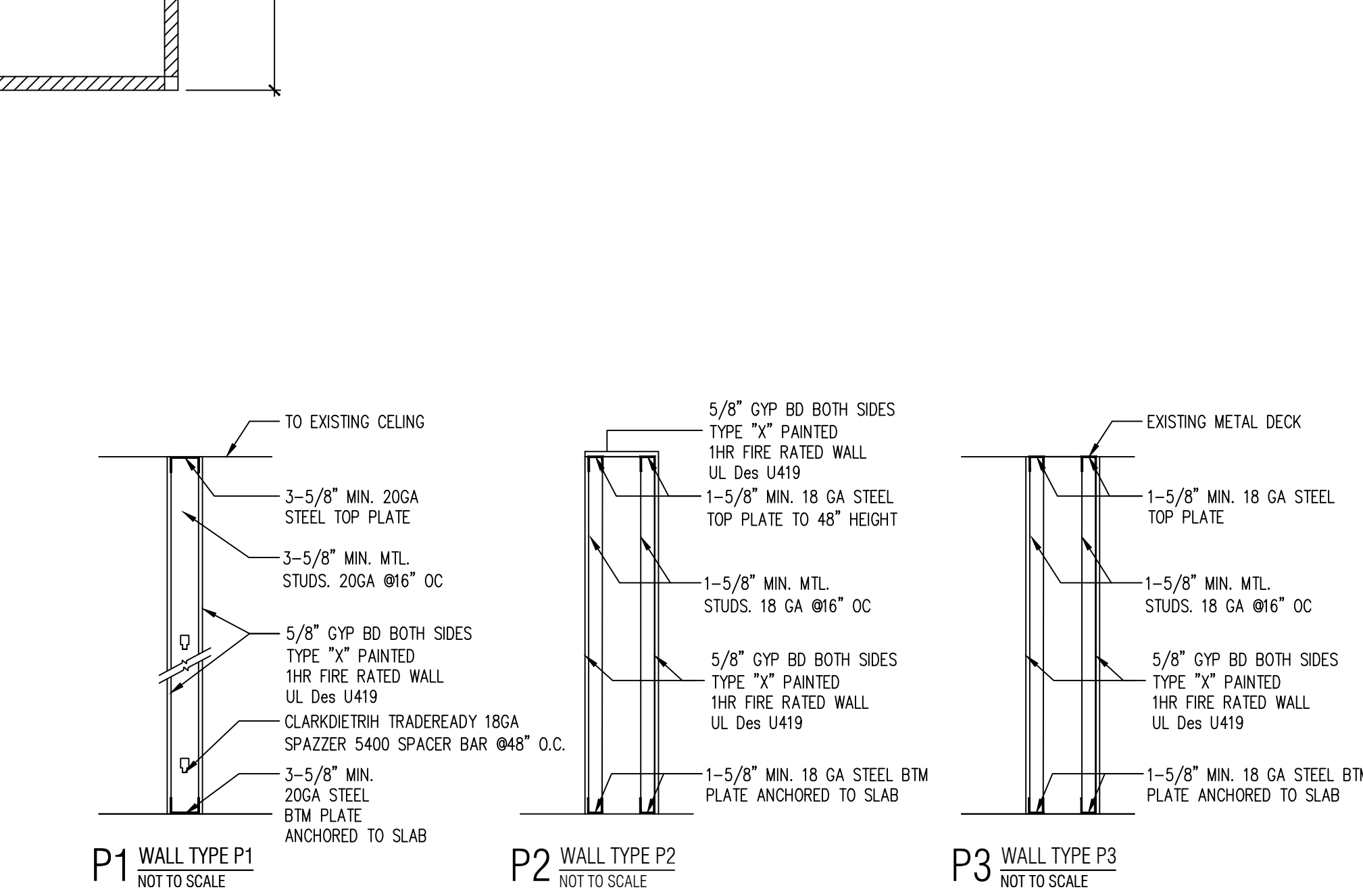
- Doors leading to the outside and restroom doors are required to be self-closing and tight-fitting. Please confirm that the doors leading to the outside are equipped with a self-closer and weather strips to eliminate any air gaps.
- Dial stem thermometers (ranging from 0° to 220°F) are required in all preparation areas.
  - Chemical test kits (specific to the sanitizer) are required for the appropriate sanitizer.
  - pH meter and log for acidifying rice.
  - All cooling/freezing units must have accurate thermometers.
  - Covered waste cans are required in all restrooms.
  - Toilets, urinals, hand sinks, 3 compartment sinks, mop sink, prep sinks, and permanent counters/cabinets must be sealed to floors and walls with a silicone caulk seal.
  - Anti-siphon devices are required on all toilet tanks, urinals, and faucets with hose connections.
  - Soap and paper towels are required at all hand sinks.
  - Provide hair restraints and disposable gloves for all food handlers.
- If sinks are provided with spring-loaded faucets, the faucets must remain running for a minimum of 15 seconds.

HARDWARE SCHEDULE	
TAG	DESCRIPTION
1	3 HINGES, W/LEVERED PRIVACY LOCKSET, KICKPLATE AND DOOR CLOSER
2	PADLOCK LATCH EXIT DEVICE AND DOOR CLOSER, PANIC HARDWARE
3	DOUBLE ACTION

COOKLINE EQUIPMENT AND REACH-IN REFRIGERATION AND FREEZER UNITS TO BE INSTALLED ON CASTERS. PROVIDE THE FOLLOWING:  
 NSF STAINLESS STEEL OPEN WIRE SHELVING UNITS AND NSF HEAVY DUTY DUNNAGE RACKS IN LIQUOR STORAGE ROOM. NSF STAINLESS STEEL SHELF OVER 3-COMPARTMENT SINK. ICE MAKER MIN. 8" FROM ALL WALLS. HEAVY-DUTY MOP RACKS LOCATED OVER MOP SINK. HEAVY-DUTY BROOM RACKS IN JANITORIAL AREA. METAL GARBAGE CANS WITH LIDS FOR RESTROOMS. SANITARY BOX IN WOMEN'S RESTROOMS. METAL GARBAGE CANS WITH LIDS FOR DIAPER CHANGING STATION.  
 ALL NSF APPROVED HAND SINKS TO BE WITH BLADE HANDLED FAUCETS.  
 WAITRESS BEVERAGE STATION & BAR COUNTER TOP - STAINLESS STEEL.  
 ALL CABINET SHELVES - STAINLESS STEEL.  
 ALL CABINET BASE - 6" STAINLESS STEEL LEGS (NO KICK BASE)  
 LAVATORY COUNTERTOP TO BE SOLID SURFACE (NO PLASTIC LAMINATE OR CABINETRY)  
 ANY PAINTED FINISHES TO BE SEMI-GLOSS OR GLOSS (NO FLAT, NO EGG SHELL, NO TEXTURE).  
 PROVIDE FRP ON WALL AND UNDERSIDE OF BAR.  
 STAINLESS STEEL WALL FINISH FOR BEHIND AND ADJACENT TO COOK LINE

**KITCHEN EQUIPMENT NOTES**  
 CONTRACTOR SHALL INSTALL AND CONNECT ALL EQUIPMENT AS PER EQUIPMENT SUPPLIERS SPECIFICATIONS. ALL LOCATIONS TO BE VERIFIED WITH OWNER PRIOR TO INSTALLATION.  
 PLUMBING CONTRACTOR SHALL PROVIDE ALL ROUGH-INS. INSULATE ALL COLD/HOT WATER PIPES AS REQUIRED. MAINTAIN MIN 36" IN FRONT OF ALL COOKING EQUIPMENT.  
 ELECTRICAL CONTRACTOR SHALL PROVIDE ALL ELECTRICAL OUTLETS FOR EQUIPMENT. VERIFY ALL ELECTRICAL REQUIREMENTS WITH EQUIPMENT SUPPLIER. VERIFY ALL GAS AND WATER REQUIREMENTS WITH EQUIPMENT SUPPLIER.  
 ALL PERMANENT EQUIPMENT MUST BE LOCATED SO THAT AREAS BEHIND, UNDERNEATH, AND ON THE SIDES OF THE EQUIPMENT CAN BE EASILY CLEANED.  
 TWO DRAIN BOARDS ARE REQUIRED AT ALL THREE-COMPARTMENT SINKS ALONG WITH AN APPROPRIATELY SIZED FAUCET, LOCKABLE DRAIN PLUGS, AND AN INDIRECT CONNECTION TO THE SEWER.

**DRY STORAGE**  
 DRY STORAGE : 25% OF 1600 SF (KITCHEN AREA) = 400SF REQ'D  
 ACTUAL DRY STORAGE : 15X4X4K2 = 480SF PROVIDED.  
 LIQUOR STORAGE : 35% OF BAR AREA = 35% X 200 = 70SF REQ'D  
 ACTUAL STORAGE : 5X4X2.5 = 50 + 20X1.5 = 80SF PROVIDED.  
 ALL FOOD AND FOOD RELATED ITEMS MUST BE STORED OFF THE FLOOR ON DURABLE WASHABLE SHELVES. THE STORAGE AREA MUST BE APPROPRIATELY SIZED BASED ON THE NUMBER OF MEALS SERVED DAILY AND THE NUMBER OF DELIVERIES WEEKLY.  
 ALL FOOD EQUIPMENT TO BE ON CASTERS, 6" LEGS, OR SEALED TO THE FLOOR FOR EASY CLEANING.  
 NO RAW WOOD SURFACES PERMITTED ANYWHERE. UNDERSIDES OF COUNTERTOPS, INSIDE OF CABINETRY, AND WATER HEATER PLATFORMS MUST BE SEALED.



NEW FLOOR PLAN SCALE 1/4"=1'-0"  
 NORTH  
 EXISTING WALL TO REMAIN  
 PARTITION WALL

OCCUPANT LOAD SIGNAGE WILL BE PLACED IN A CONSPICUOUS LOCATION AT THE ENTRANCE TO THE RESTAURANT AND EACH ASSEMBLY SPACE.  
 THE EXIT DOORS ARE EQUIPPED WITH PANIC HARDWARE. IBC 1008.1.9  
 EMERGENCY AND GENERAL EGRESS DISCHARGE LIGHTING. IBC 1006.1 ON SHEET E4

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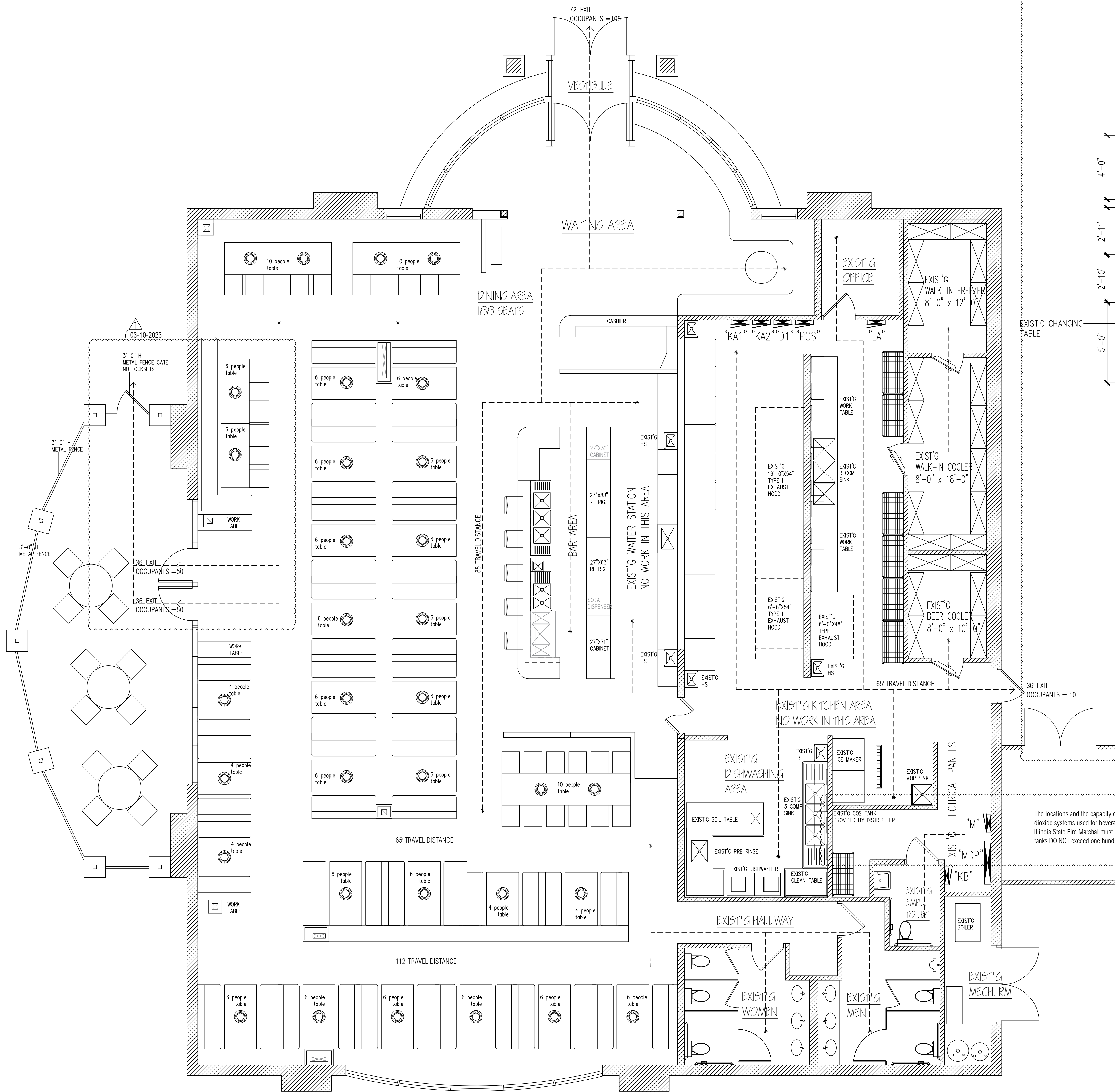
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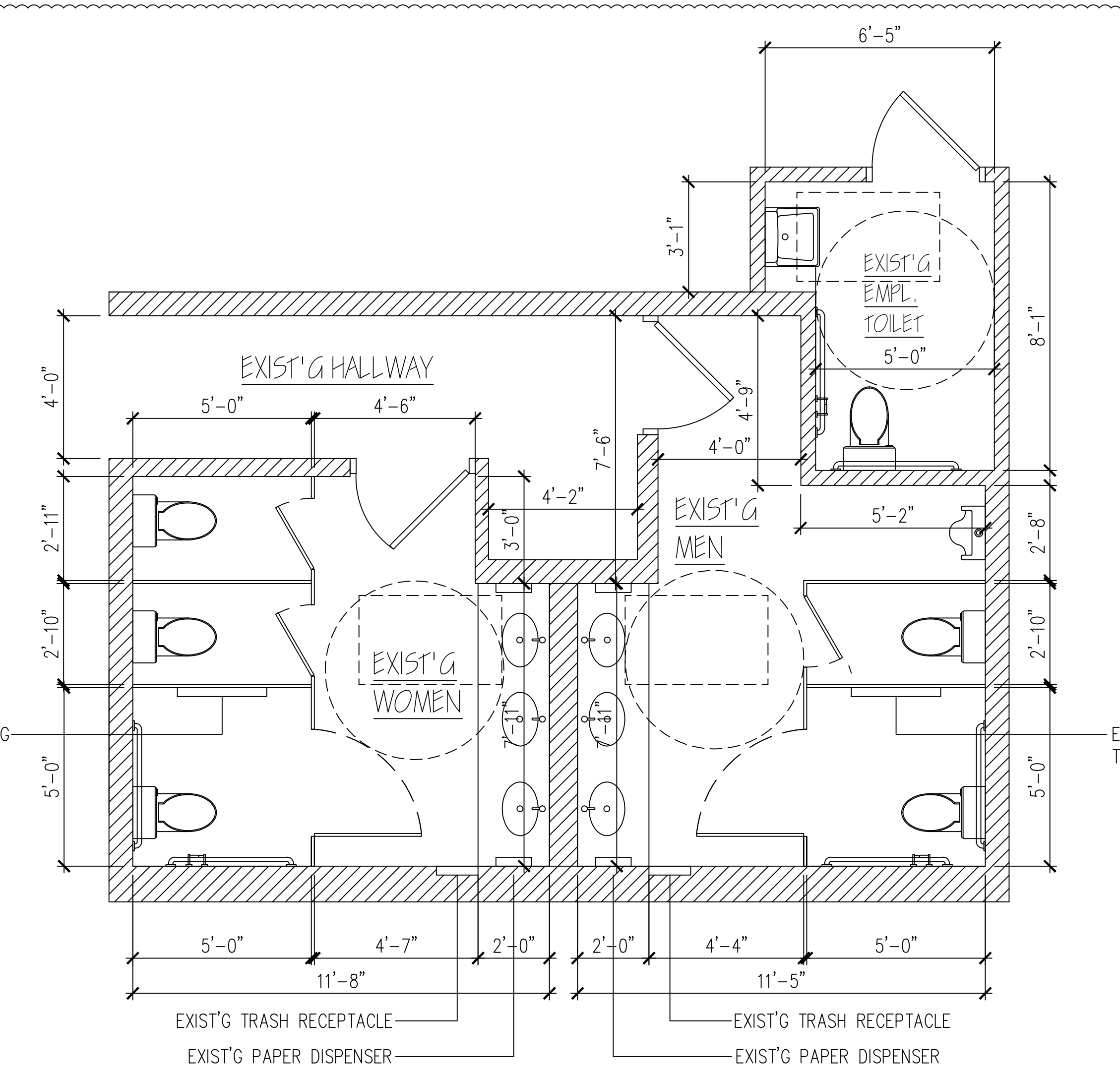


FLOOR PLAN, NOTES, & SCHEDULES

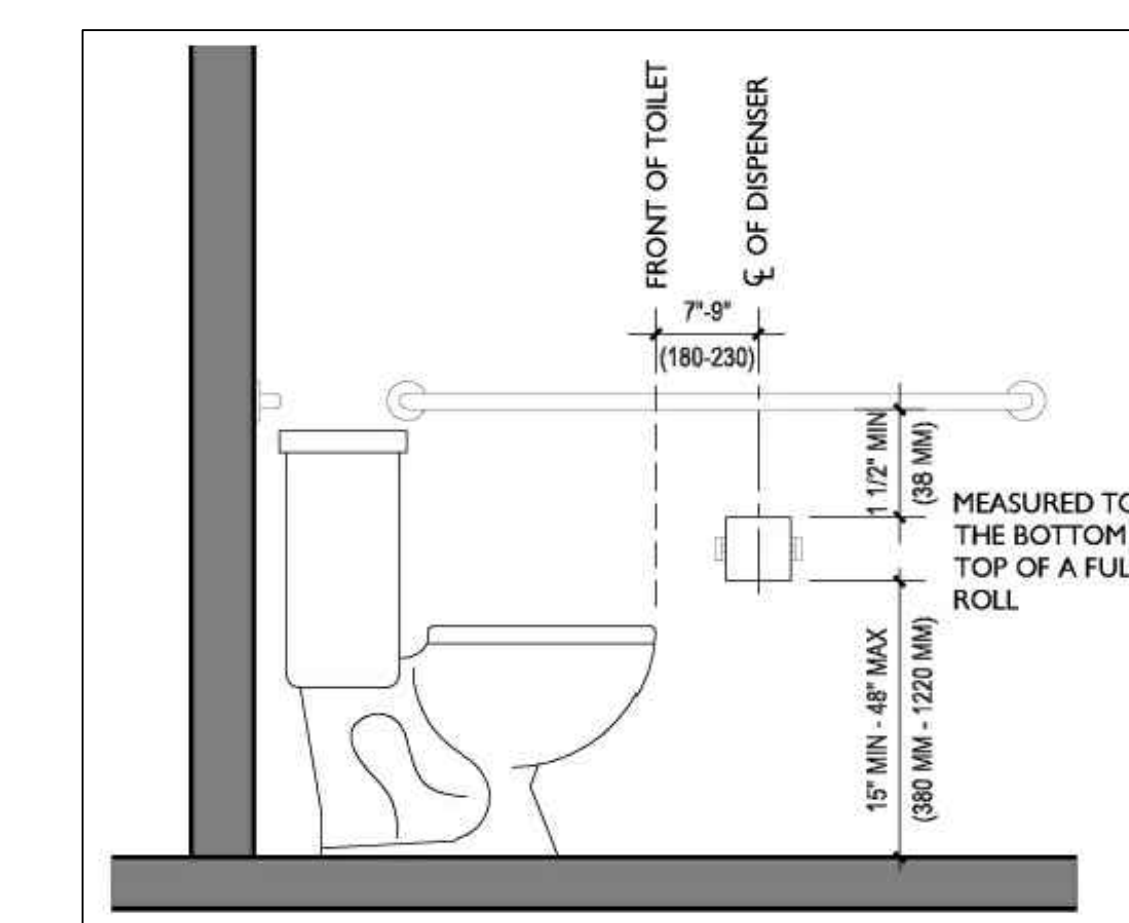
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**A2**



**A OCCUPANCY & EXITING DIAGRAM**  
SCALE 1/4"=1'-0" NORTH



**B EXIST'G ADA RESTROOM FLOOR PLAN**  
SCALE 3/8"=1'-0" NORTH



The locations and the capacity of the tanks (in pounds) of the insulated liquid carbon dioxide systems used for beverage dispensing applications. Additionally, the Office of the Illinois State Fire Marshal must be notified to inspect the installation. The carbon dioxide tanks DO NOT exceed one hundred pounds (100 lbs.).

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EXIT & OCCUPANCY DIAGRAM

SHEET NUMBER  
**A3**

# ELECTRICAL NOTES

1. THE CONTRACTOR SHALL VISIT THE SITE AND BE FAMILIAR WITH THE JOB CONDITION PRIOR TO SUBMITTING THE BID.
2. THE CONTRACTOR SHALL PAY FOR ALL THE TAXES AND FEES AND GIVE LOCAL AUTHORITIES ALL NOTICE RELATING TO HIS WORK.
3. WORKMANSHIP SHALL BE DONE IN A NICE MANNER.
4. ALL MATERIALS USED FOR THIS JOB SHALL BE NEW AND THE BEST OF THEIR KIND.
5. ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL STATE AND LOCAL CODES.
6. THE CONTRACTOR SHALL GUARANTEE ALL WORK AND MATERIAL FOR ONE YEAR AFTER COMPLETION AGAINST ALL DEFECTS OF MATERIAL, EQUIPMENT AND WORKMANSHIP.
7. THE CONTRACTOR SHALL TEST SYSTEM PRIOR TO OPERATION.
8. RECEPTACLES SHALL BE COMMERCIAL GRADE AND BE GROUNDING TYPE.
9. SWITCHES; RECEPTACLES; INTERNET OUTLET, ETC. SHALL NOT BE INSTALLED BACK TO BACK. ALL RECEPTACLES, TELEPHONE AND TV OUTLETS SHALL BE INSTALLED 12" A.F.F. UNLESS NOTED OTHERWISE. SWITCHES SHALL BE 54" A.F.F.
10. CONDUIT RUNS SHOWN ON THE DRAWINGS ARE DIAGRAMMATIC. ACTUAL FIELD CONDITION SHALL BE FOLLOWED.
11. LIGHT FIXTURE INSTALLED SHALL BE LED TYPE. FOR ENERGY SAVING REQUIREMENT.
12. THE CONTRACTOR SHALL PROVIDE ALL MATERIALS; CONDUITS; WIRING; JUNCTION BOXES; ETC. AS REQUIRED TO COMPLETE AND OPERATE ALL SYSTEMS.
13. ALL ELECTRICAL WORK SHALL COMPLY WITH THE LOCAL CITY /VILLAGE BUILDING CODES.
14. CONTRACTOR SHALL REVIEW LOCATION OF ALL LIGHTING FIXTURES, FANS AND OUTLETS IN FIELD WITH OWNER PRIOR TO ANY WORK.

# WIRING NOTES

1. MINIMUM WIRE SIZE SHALL BE AS FOLLOWS:
  - A. 15-AMP CIRCUITS-#14 AWG
  - B. 20-AMP CIRCUITS-#12 AWG
  - C. LARGER CIRCUITS--AS NOTED
  - D. HOME RUNS ORIGINATING 75 FT. OR MORE FROM BRANCH CIRCUIT PANEL ONE WIRE SIZE LARGER THAN THAT LISTED.
2. WIRE ALL OUTLETS IN THE BUILDING AND LEAVE THEM READY FOR USE.
3. ALL APPLIANCE CONVENIENCE OUTLETS AND REFRIGERATOR OUTLETS SHALL BE WIRED TO THE 20 AMP APPLIANCE CIRCUIT WITH #12 WIRE.
4. ALL CONVENIENT OUTLETS ABOVE THE COUNTERTOP SHALL BE INSTALLED WITH LONG DIMENSION OF THE PLATES HORIZONTAL. GFI TYPE FOR WET LOCATION.
5. ALL WIRING WITHIN BUILDING SHALL CONNECTED TO PANEL FOR THAT BUILDING.
6. THE TOP OF LOAD CENTER PANELS IN ELECTRICAL ROOM TO BE MAXIMUM OF 54 " ABOVE FLOOR.
7. ALL WALL PLATES FOR ELECTRICAL WIRING SHALL BE PLUMB AND LEVEL.

### Service Load Calculation Commercial

Address: 295 Parkway Drive Lincolnshire IL 60069  
 Outside Building Dimensions: Length 90' Width 85' Floors 1  
 Rough Total Area: 7650'

Type of Electrical Service: 1000A Phase 3 Wire 4 Volt 120/208V/208V/208V/208V  
 Service Conductors 14-28-1480 Size Type (Al.,Cu),Conduit IMC,Rigid

GENERAL LIGHTING LOAD:

Square foot area per floor:	7650
Total square foot area :	7650
Times(2.0 Watts)per square foot	15300
Other loads(receptacles)	3600
(See section 14-16-180(b)) 20 Times(180 Watts)	3600

ADD

(1) Electrical Panel "M" 208V/3PH/500A	121613
(1) Electrical Panel "KA1" 208V/3PH/225A	44100
(1) Electrical Panel "KA2" 208V/3PH/225A	28800
(1) Electrical Panel "KB" 208V/3PH/225A	47500
(1) Electrical Panel "LA" 208V/3PH/225A	42700
(1) Electrical Panel "POS" 208V/3PH/225A	22800
<b>TOTAL:</b>	<b>406 KW</b>

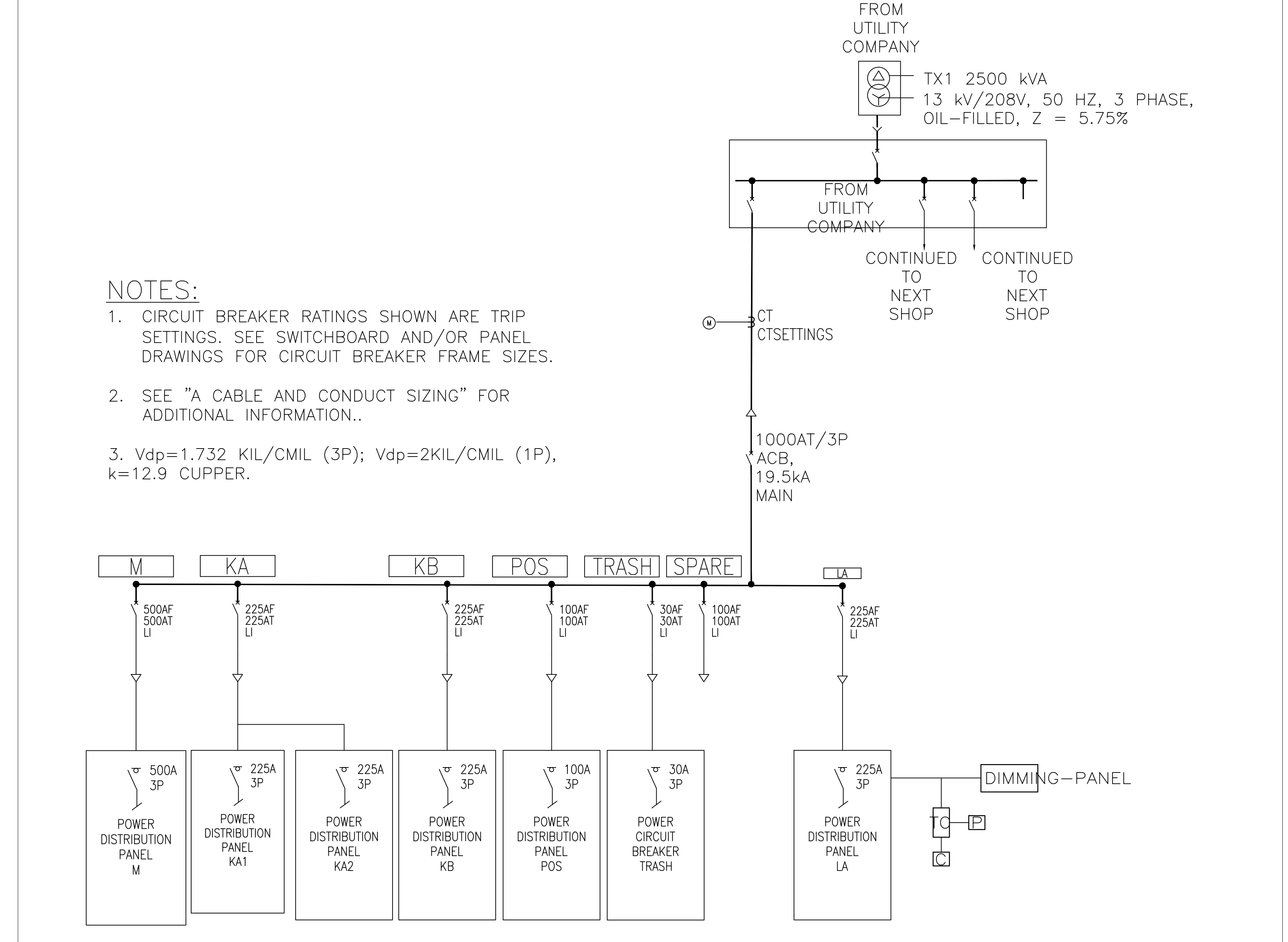
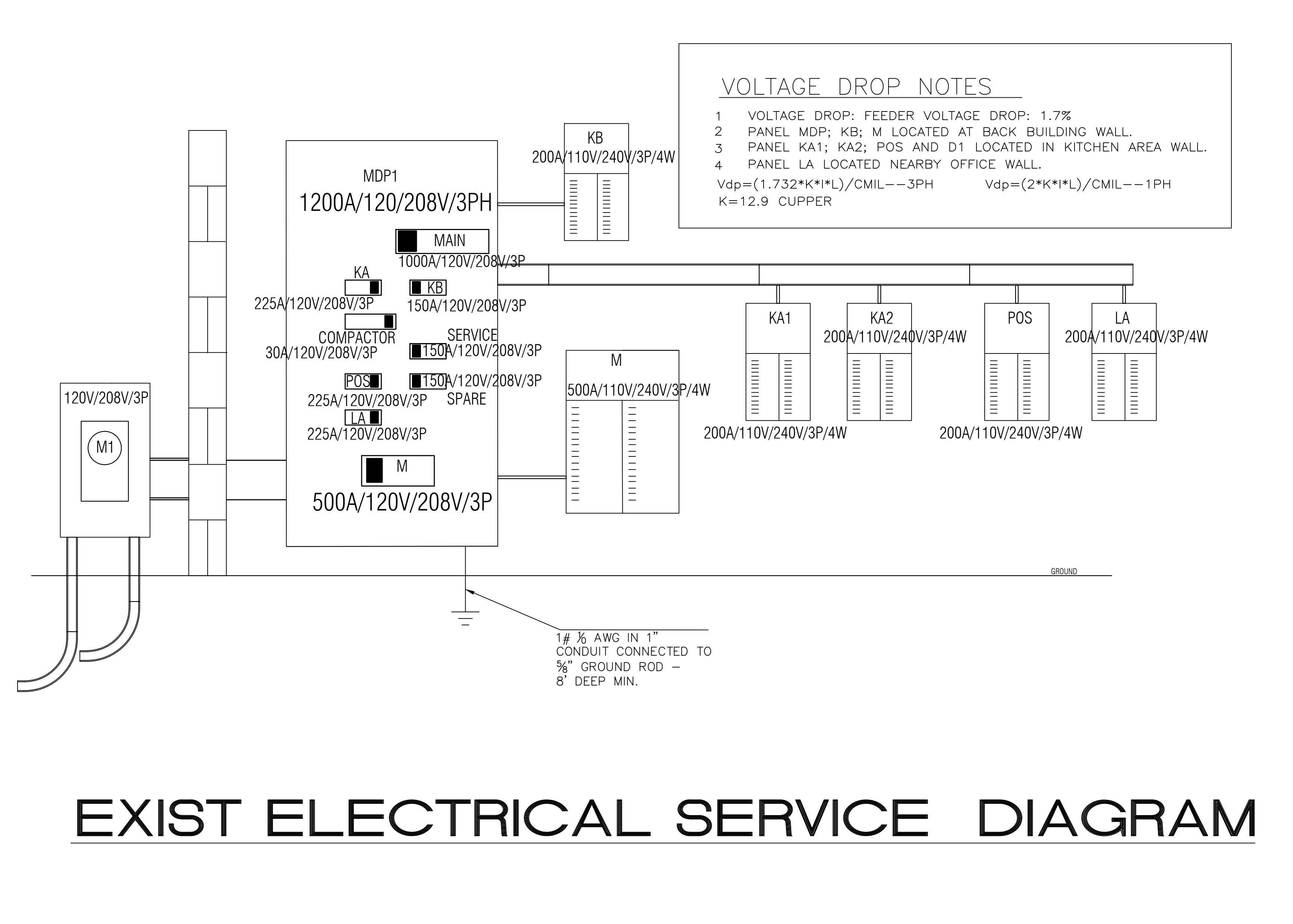
TOTAL LOAD:  $I = W/(v \times 1.732) = 854 \text{ AMP}$

USE 854 AMP MULTIPLY BY 125% FOR CONSIDERATIONS OF CONTINUOUS LOADS, SERVICE SIZE TO BE 1067 AMP 120/208V 3 PH, 4 WIRE

EXISTING SERVICE SIZE IS 1200 AMP

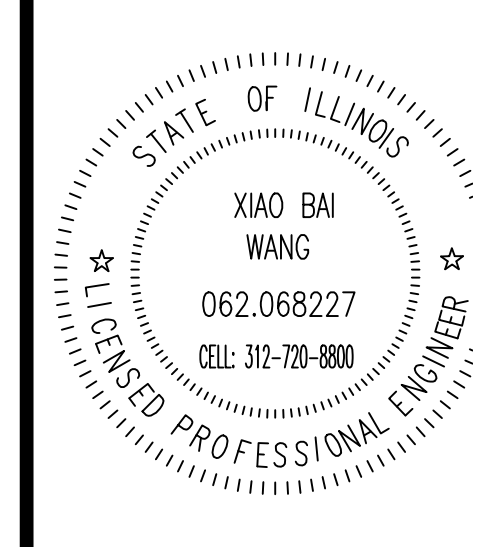
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TOMAHAWK BBQ STEAKHOUSE  
 INTERIOR REMODELING  
 295 PARKWAY DRIVE LINCOLNSHIRE IL 60069

ISSUES	DATE
ISSUED FOR PERMIT	02/21/2023
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EXISTING MAIN  
 ELECTRICAL  
 SERVICE  
 DIAGRAM  
 SHEET NUMBER

E1

EXIST'S "KB" 225A (120V/208V/3P) ELECTRICAL PANEL

SERVES	A	B	C	AMPS	CK	CK	AMPS	A	B	C	SERVES
CONVECTION OVEN	2500			30	1	2	15	900			10 GALLON KETTLE
BROILER & REFRIG	1200			20	3	4	30	900		900	MICROWAVE OVEN
CHEESE MELTER		3600		30	5	6	30		900		MICROWAVE OVEN
FREEZER & REFRIG	1200			20	7	8	30	900			ANSUL RESET REL
FRYERS		1200		20	9	10	20		900		WALL PAEK RECEPTACLE
FRYERS & FILTER			1200	20	11	12	20			900	CONVEYOR TOASTER
HOT POT TABLE RECEPTACLE 1	1200			20	13	14	20	900			CONVEYOR TOASTER
HOT POT TABLE RECEPTACLE 2		1200		20	15	16	20		900		MICROWAVE OVEN
HOT POT TABLE RECEPTACLE 3			1200	20	17	18	20			900	MICROWAVE OVEN
HOT POT TABLE RECEPTACLE 4	1200			20	19	20	50	900			MICROWAVE OVEN
HOT POT TABLE RECEPTACLE 5		1200		20	21	22	20		900		MICROWAVE OVEN
HOT POT TABLE RECEPTACLE 6			1200	20	23	24	20			900	MICROWAVE OVEN
HOT POT TABLE RECEPTACLE 7	1200			20	25	26	20	2500			
HOT POT TABLE RECEPTACLE 8		1200		20	27	28	20				
HOT POT TABLE RECEPTACLE 9			1200	20	29	30	20				
HOT POT TABLE RECEPTACLE 10	1200			20	31	32	20				
				20	33	34	20				
				20	35	36	20				
				20	37	38	20				
				20	39	40	20				
				20	41	42	20				
SUBTOTAL	9700	10900	10900					7000	4500	4500	SUBTOTAL
TOTAL PANEL LOAD	47500	0	132	AMPS	120/208V	3 PH					

EXIT SIGN&EMERGENCY LIGHTING SCHEDULE

SYMBOL	DESCRIPTION	LAMPS	REMARKS
	BATTERY OPERATED EMERGENCY LIGHT SURE-LITES CAT. No. EAC-4201-3,9,21,24; DOUBLE PL5-5 WATT FLOURESCENT OR2X16 1/2-20WATT INCANDESCENT		
	BATTERY OPERATED EM. LIGHT SURE-LITES XR-6-C (212H6V)	12W HALOGEN	PROVIDE REMOTE LAMPS WHERE INDICATED
	WHEATER PROOF 8W, 6V REMOTE HALOGEN LAMP SURE-LITES 6T-8-W		
	BATTERY FOR REMOTE LAMPS SURE-LITES XR-8 RATED @ 1 1/2 HRG, 54 WATTS		

EXIST'S "M" 500A (120V/208V/3P) ELECTRICAL PANEL

SERVES	A	B	C	AMPS	CK	CK	AMPS	A	B	C	SERVES
RTU-1	8016			100	1	2	15	600			EXIST'G MUA-1
RTU-2	8016			100	3	4	15	600			EF1; EF2
RTU-3	8016			100	5	6	15	6605			REFRIGRANT
EF3	2496			20	7	8	20	600			
EF4		2500		20	9	10	20	2400			HEF-2
HEATER		2500		20	11	12	20	2400			
HOOD	2496			15	13	14	60	6605			
RTU-4		5404		50	15	16	35	600			NEW MUA-1
		5404		30	17	18	30	600			
HEF-1		3000		30	19	20	30				
		3000		30	21	22	30				
				30	23	24	30				
				30	25	26	30				
				30	27	28	30				
				30	29	30	30				
				30	31	32	30				
				30	33	34	30				
				30	35	36	30				
				30	37	38	30				
				30	39	40	30				
				30	41	42	30				
SUBTOTAL	37444	34952	34952					11355	10755	11355	
TOTAL PANEL LOAD	140813	0	391	AMPS	120/208V	3 PH					

EXIST'S "KA1" 225A (120V/208V/3P) ELECTRICAL PANEL

SERVES	A	B	C	AMPS	CK	CK	AMPS	A	B	C	SERVES
RECEPTACLE	900			20	1	2	20	900			RECEPTACLE
CARBONATORS/BIB		900		20	3	4	20		900		SIGNAGE
CARBONATORS/BIB			900	20	5	6	20			900	TV RCPT
ICE CREAM/TPPNG DSP	900			20	7	8	20	900			TV RCPT
COUNTER TOP REFER		900		20	9	10	20		900		TV RCPT
JOCKEY BOX (COMP)			900	20	11	12	20			900	RECEPTACLE
BLENDER STATION	900			20	13	14	20	900			RECEPTACLE
BAR BLENDERS		900		20	15	16	20		900		PLUGMOLD RECP
DOUBLE MUG FROSTER			900	20	17	18	20			900	GLASS BRUSH
POST MIX/RCPT	900			20	19	20	20	900			TEA BREWER
COFFEE BREWER		900		20	21	22	20		900		CASH DRAW
SLICER			900	20	23	24	20			900	2 DR BOTTLE COOLER
DISHWASHER	900			20	25	26	20	900			SOFT SERV. MACHINE
AIR CURTAIN		900		20	27	28	20		900		SOFT SERV. MACHINE
RECEPTACLE			900	20	29	30	20			900	3 DR BOTTLE COOLER
	3600			35	31	32	20	900			
ICE MACHINE		3600		30	33	34	30		900		ICE MACHINE
		3600		30	35	36	30			900	
REFRIGERATOR	900			20	37	38		900			BEER DISPENSER
FOOD PROCESSOR		900		20	39	40			900		FREEZERT DR. HEATER
REACH-ION FREEZER			900	20	41	42				900	WALK-IN LIGHTS
SUBTOTAL	9000	9000	8100					6300	6300	5400	SUBTOTAL
TOTAL PANEL LOAD	44100	0	122	AMPS	120/208V	3 PH					

EXIST'S "KA2" 225A (120V/208V/3P) ELECTRICAL PANEL

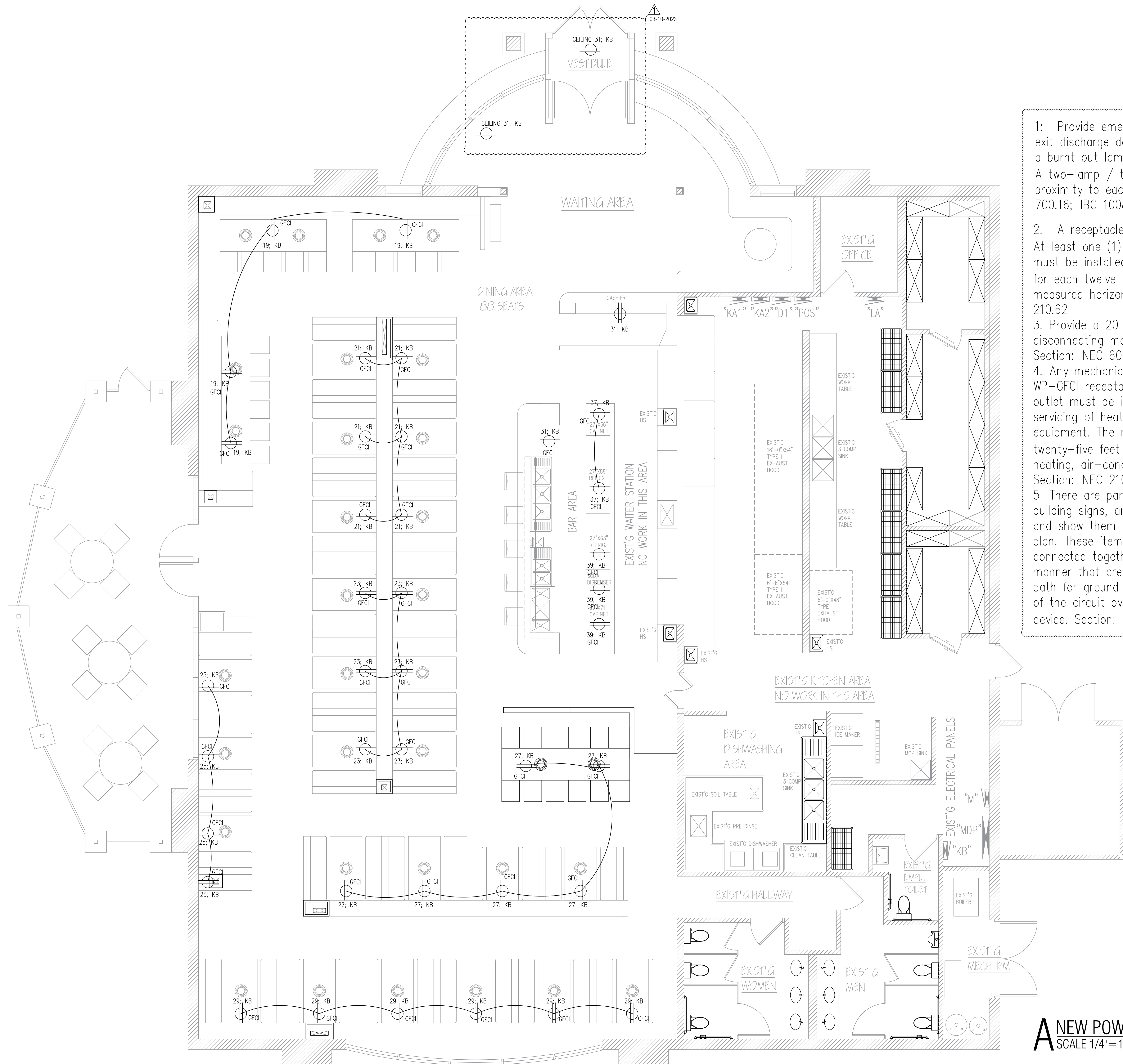
SERVES	A	B	C	AMPS	CK	CK	AMPS	A	B	C	SERVES
RECEPTACLE	900			20	1	2	20	900			COOLER EVAP
OFFICE RECEPTACLE		900		20	3	4	20		900		INTERIOR SIGNAGE
OFFICE RECEPTACLE			900	20	5	6	20			900	
RECEPTACLE	900			20	7	8	20	900			TEA BREWER
		900		20	9	10	20		900		TEA BREWER
COFFEE BREWER			900	20	11	12	20			900	POST MIX MACHINES
	900			20	13	14	20				
		900		20	15	16	20				
COFFEE GRINDER			900	20	17	18	20				
EXTERIOR REPT	900			20	19	20	20	900			HEATER UNIT(EUH-1)
HEAT LAMPS		900		20	21	22	20		900		
HEAT LAMPS			900	20	23	24	20			900	
RECEPTACLE		900		20	25	26	20	900			HEATER UNIT(EUH-2)
WATER HTR/CIRC PUMP			900	20	27	28	20		900		
DOOR BUZZER	900			20	29	30	20	900			HEATER UNIT(EUH-3)
COFFEE BREWER		900		20	31	32	20		900		TV RCPT
COFFEE GRINDER			900	20	33	34	20				
				20	35	36	20				
				20	37	38	20				
				20	39	40	20				
				20	41	42	20				
SUBTOTAL	5400	5400	5400					4500	4500	3600	SUBTOTAL
TOTAL PANEL LOAD	28800	0	80	AMPS	120/208V	3 PH					

EXIST'S "LA" 225A (120V/208V/3P) ELECTRICAL PANEL

SERVES	A	B	C	AMPS	CK	CK	AMPS	A	B	C	SERVES
	900			20	1	2	20	900			BOLLARDS
MECH/OFFICE/RR LTS		900		20	3	4	20		900		LANDSCAPE RECEPTS
KITCHEN LTS			900	20	5	6	20			900	DOCK LIGHTS
	900			30	7	8	20	900			EXTERIOR LTS
DIMMING PANEL "D1"		900		20	9	10	20		900		PARKING LOT LTS
			900	20	11	12	20			900	PARKING LOT LTS
	1200			20	13	14	20	900			EXTERIOR UP LTS
		1200		20	15	16	20		900		PARKING LOT LTS
			1200	20	17	18	20			900	PARKING LOT LTS
HOT POT TABLE LIGHTING 1	1200			20	19	20	20	900			PATIO LTS
HOT POT TABLE LIGHTING 2		1200		20	21	22	20		900		LANDSCAPE RECEPTS
HOT POT TABLE LIGHTING 3			1200	20	23	24	20			900	
HOT POT TABLE LIGHTING 4	1200			20	25	26	20	900			ROOF LIGHTS/TM CLK
HOT POT TABLE LIGHTING 5		1200		20	27	28	20		900		SIGNAGE-RR SIGN-SF
HOT POT TABLE LIGHTING 6			1200	20	29	30	20			900	PARKING LOT LTS
HOT POT TABLE LIGHTING 7	1200			20	31	32	50	3500			
HOT POT TABLE LIGHTING 8		1200		20	33	34	20		3500		
			1200	20	35	36	20			1200	
				20	37	38	20	1200			EXTERIOR LTS
				20	39	40	20				
				20	41	42	20				
SUBTOTAL	6600	6600	6600					9200	8000	5700	SUBTOTAL
TOTAL PANEL LOAD	42700	0	119	AMPS	120/208V	3 PH					

EXIST "POS" 125A (120V/208V/3P) ELECTRICAL PANEL

SERVES	A	B	C	AMPS	CK	CK	AMPS	A	B
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- 1: Provide emergency lighting on the exterior side of the exit discharge doors. The design must be installed so that a burnt out lamp will not leave the space in total darkness. A two-lamp / two LED driver fixture or multiple fixtures in proximity to each other will accomplish this. Section: NEC 700.16; IBC 1008.3.2
- 2: A receptacle must be provided above the show windows. At least one (1) 120 Volt, 15 amp or 20 amp receptacle must be installed above the top of a storefront window and for each twelve (12) linear feet or major fraction thereof measured horizontally at its maximum width. Section: NEC 210.62
- 3: Provide a 20 amp branch circuit in an electrical box and disconnecting means for a tenant sign at entrance. Section: NEC 600.5, 600.6
- 4: Any mechanical equipment on the roof. there are existing WP-GFCI receptacles. A 15 or 20 amp, 120 Volt receptacle outlet must be installed at an accessible location for the servicing of heating, air-conditioning, and refrigeration equipment. The receptacle must be located within twenty-five feet (25') of, and on the same level as, the heating, air-conditioning and refrigeration equipment. Section: NEC 210.63
- 5: There are parking lot lights, any monument signs, building signs, and flag pole lights, and show them include circuiting and panel feeds on a site plan. These items must be effectively connected together and to the electrical supply source in a manner that creates a low-impedance path for ground fault current that facilitates the operation of the circuit overcurrent protection device. Section: NEC 250.4(A)(5), 408.4

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**TOMAHAWK BBQ STEAKHOUSE**  
 INTERIOR REMODELING  
 285 PARKWAY DRIVE LINCOLNSHIRE IL 60069

ISSUES	DATE
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REISSUED FOR PERMIT	03/05/2023

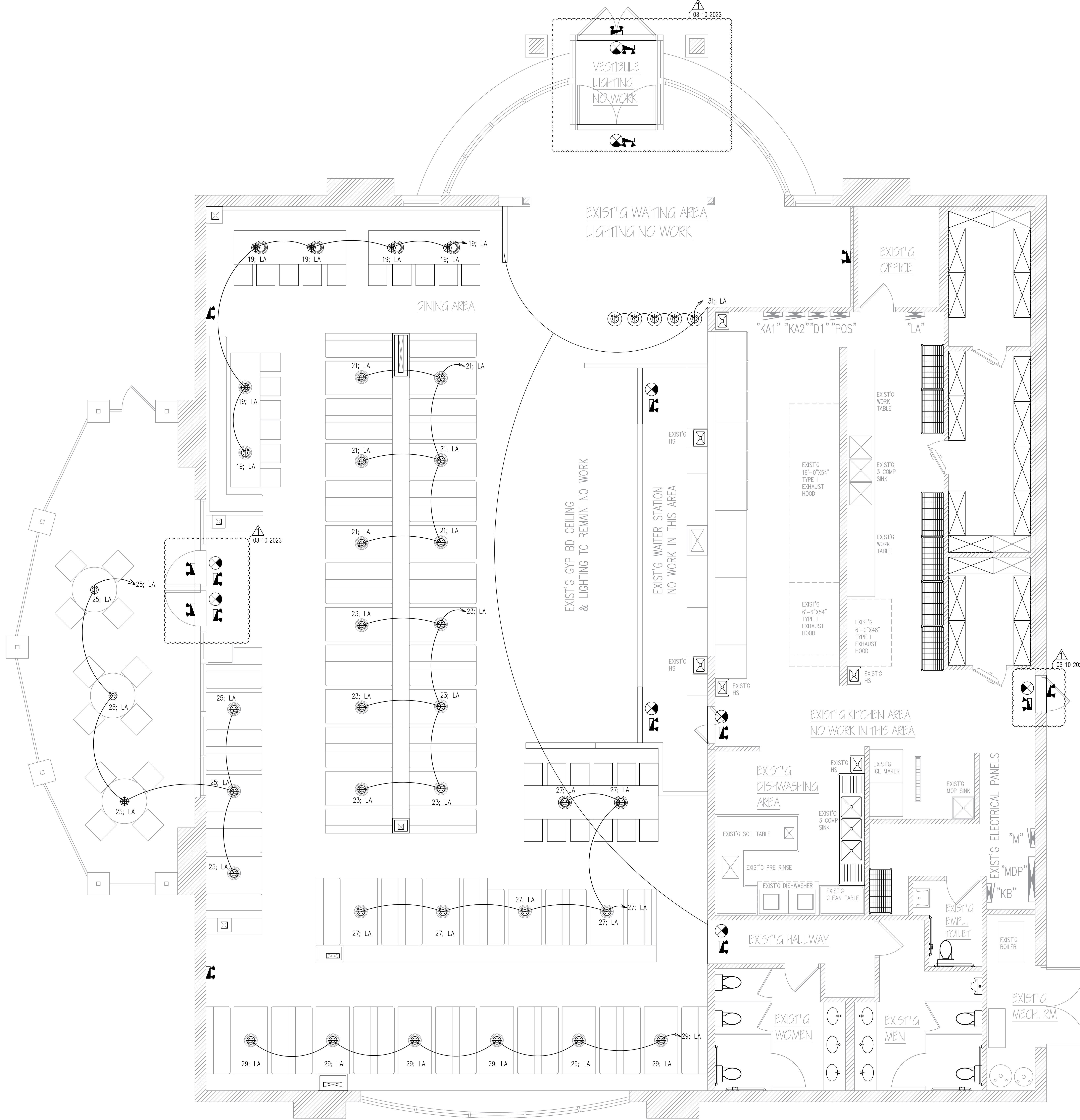


**A NEW POWER PLAN**  
 SCALE 1/4" = 1'-0"



DINING ROOM  
 ELECTRICAL  
 POWER PLAN

SHEET NUMBER  
**E3**



7. That wherever circuit conductors are spliced in a box, any Equipment Grounding Conductors associated with these circuits must be bonded ("pigtailed") to the box. Section: NEC 250.148
8. That indicates arc-flash hazard warning markings shall be provided on electrical equipment likely to require examination, adjustment, servicing, or maintenance while energized to warn qualified persons of potential electric arc flash hazards in accordance with NEC 110.16. Section: NEC 110.16
9. That illumination shall be provided for all working spaces about electrical equipment and that the illumination shall not be controlled by automatic means only. Section: NEC 110.26(D)
10. That the service disconnect shall be permanently marked to identify it as the service disconnect. Section: NEC 230.70(B)
11. That access and working space shall be provided and maintained about all electrical equipment and that required working space shall not be used for storage. Section: NEC 110.26(A, B, C)
12. That the panel directories shall have sufficient detail to allow each circuit to be distinguished from all others. Section: NEC 408.4(A)
13. Electrical Inspector shall field verify the grounding system. Section: NEC 250.50
14. The Electrical Inspector shall field verify exit and emergency lighting once all equipment, furniture, etc. are in place. This includes verification that there is emergency lighting provided at exterior of egress discharge locations. Additional exit signs and emergency lighting fixtures may be required at the discretion of the field inspector.
15. The Electrical Inspector shall field verify that exterior emergency egress lighting is equipped with a two-lamp / two-LED driver fixture or multiple fixtures in proximity to each other.
16. Electrical Inspector shall field verify that all emergency lighting shall be installed on the same branch circuit that supplies normal lighting in the area of the emergency lighting, ahead of any local switching in accordance with NEC 700.12(F) and NEC 408.4.
17. Electrical Inspector to field verify the bonding of the water pipe system at the water heater. The water heater shall be jumpered between the cold and hot water pipes with a jumper sized according to NEC Table 250.166, per NEC 250.104(A)(1) and any metal gas piping shall be bonded per NEC 250.104(B).
18. Electrical Inspector shall field verify that the branch circuit feeding emergency lighting shall be the same branch circuit as that serving the normal lighting in the area and connected ahead of any local switches per NEC 700.12(F) and NEC 408.4.1.
19. Electrical Inspector shall field verify that all exposed metal parts of the proposed light poles, flag poles, and the monument sign are effectively connected together and to the electrical supply source in a manner that creates a low-impedance path for ground fault current that facilitates the operation of the circuit overcurrent protection device, per NEC 250.4(A)(5).

**A NEW LIGHTING & EMERGENCY PLAN**  
SCALE 1/4" = 1'-0"



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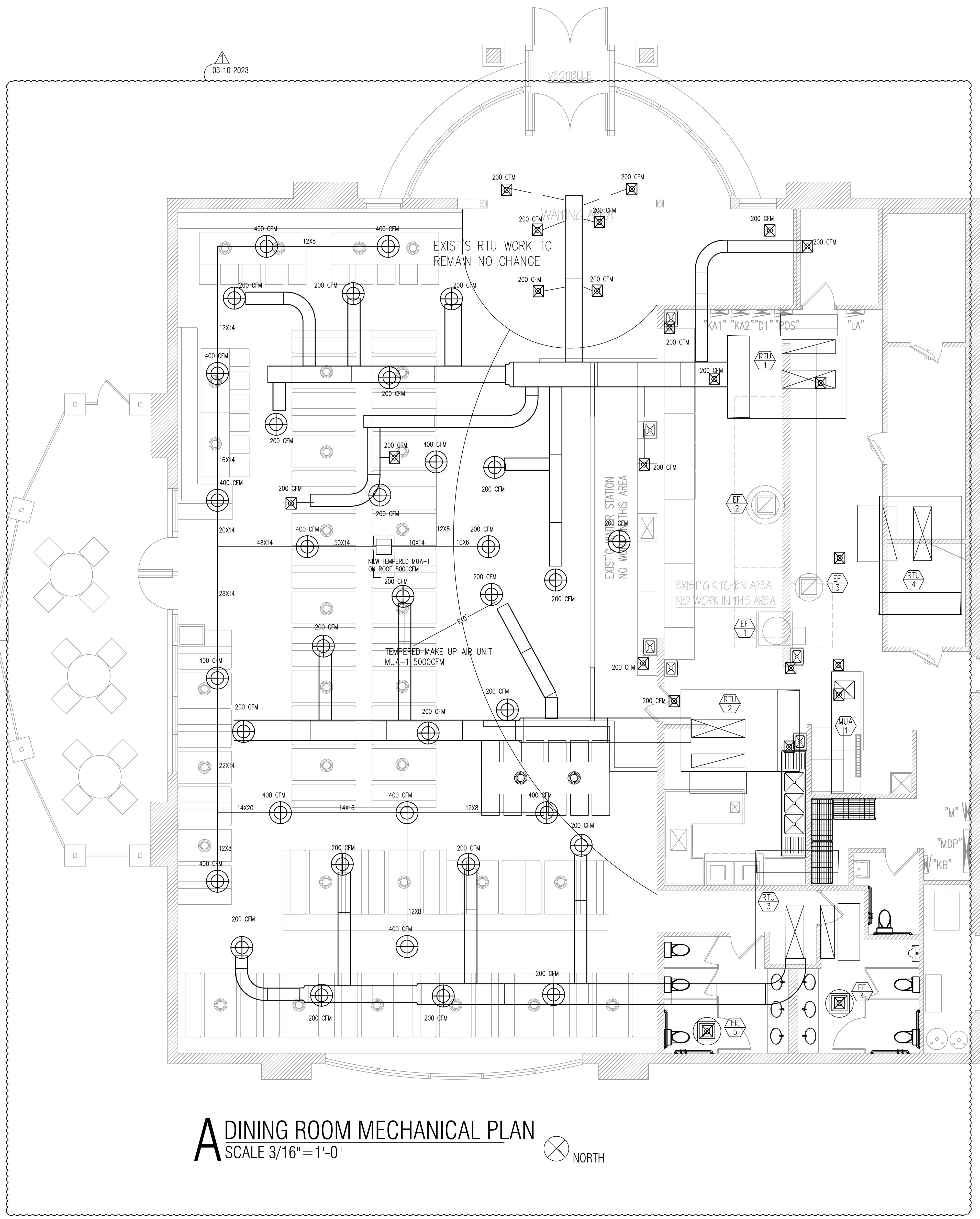


DINING ROOM  
LIGHTING PLAN

SHEET NUMBER

**E4**





**A** DINING ROOM MECHANICAL PLAN  
SCALE 3/16" = 1'-0" NORTH

EXIST'S ROOF TOP UNIT (RTU) SCHEDULE																		
TAG	QTY.	LOCATION	NAME	MODEL	CAPACITY (INPUT/OUTPUT BTU/H)	VOLTAGE	POWER	CFM	MCA	MOP	AREA SERVED	dB(A)	LIQ LINE	GA LINE	DRAIN PIPE	L X W	NET WEIGHT (LBS)	NOTE
RTU-1	1	ROOF TOP	LENNOX	LGA 180H	260000/208000	208/3PH	5 H.P.	5500	87A	100AMP	ENTRY/SIDE DINING					60' X 88"	2600	EXIST'S
RTU-2	1	ROOF TOP	LENNOX	LGA 181H	260000/208000	208/3PH	5 H.P.	5500	87A	100AMP	MIDDLE AREA DINING					164' X 84"	2600	EXIST'S
RTU-3	1	ROOF TOP	LENNOX	LGA 182H	260000/208000	208/3PH	5 H.P.	5400	87A	100AMP	ENTRY/SIDE DINING					60' X 88"	2600	EXIST'S
RTU-4	1	ROOF TOP	LENNOX	LGA 183H	260000/208000	208/3PH	5 H.P.	5500	87A	50AMP	KITCHEN					164' X 84"	2006	EXIST'S

EXIST'S EXHAUST & MAKE-UP AIR EQUIPMENT SCHEDULE												
TAG	QTY.	LOCATION	NAME	MODEL	CFM	VOLTAGE	HP	E.S.	RPM	MOP	APPROX WEIGHT (LBS)	
EF-1	1	ROOF TOP	#1 HOOD EXHAUST FAN	HRE, CAPTIVE AIRE	1650	208/3PH	3/4	1.00	1540	20AMP	390	
EF-2	2	ROOF TOP	#2A, #2B HOOD EXHAUST FAN	CNU, CAPTIVE AIRE	3160	208/3PH	1 1/2	1.25	1410	20AMP	375	
EF-3	1	ROOF TOP	KETTLE FAN	CDU, CAPTIVE AIRE	900	115/1PH	1/4	1	1445	20AMP	160	
EF-4	1	ROOF TOP	DISHWASHER HOOD	CDU, CAPTIVE AIRE	900	115/1PH	1/4	1	1445	20AMP	160	
EF-5	1	ROOF TOP	RESTROOMS	CDU, CAPTIVE AIRE	600	115/1PH	1/4	0.5	1140	20AMP	110	
MUA-1	1	ROOF TOP	ARES	NHMUA-2-123-G-12	3375	208/3PH	1		900	20AMP	MAKE UP AIR (TEMPED)	

EXIST'S EXHAUST HOOD SCHEDULE												
HOOD	QTY.	LOCATION	NAME	MODEL	DIMENSIONS(L,W)	VOLTAGE	RISER	E.S.	RPM	MOP	APPROX WEIGHT (LBS)	
#1	1	KITCHEN	CAPTIVE AIRE	NDBR	6'6"X4'6"	208/3PH	13'X10"	1.00	1650	20AMP		
#2A,2B	2	KITCHEN	CAPTIVE AIRE	NDBR	8'6"X4'6"	208/3PH	13'X10"	1.25	1580	20AMP		
#3	1	KETTLE HOOD	KETTLE FAN	VH-1	6'X3'6"	115/1PH	9'X8"	1	1445	20AMP		
#4	1	ROOF TOP	DISHWASHER HOOD	VH-1	6'X3'6"	115/1PH	9'X8"	1	900	20AMP		

NOTE: EF-1;EF-2;EF-3 AND EF-4 ARE CONTROLLED BY SWITCH AT THE HALTON HOOD, INTERLOCK FANS WITH MAKE-UP AIR UNIT, RTU-1; RTU-2; RTU-3 AND RTU-4

EXIST'S AIR BALANCE SCHEDULE						
TAG	QTY.	OUTSIDE AIR CFM	RETURN AIRFLOW CFM	SUPPLY AIR CFM	EXHAUST FAN UNIT	EX FLOW
RTU-1	1	1760	3740 (32%)	5500	EF-1	1650
RTU-2	1	1760	3740 (32%)	5500	EF-2	3160
RTU-3	1	1760	3740 (32%)	5500	EF-3	900
RTU-4	1	630	4870(11.5%)	5500	EF-4	900
MUA-1	1	3375	0 (100%)	3375	EF-5	600
<b>TOTAL</b>		<b>9285</b>	<b>16090</b>	<b>25375</b>		<b>7210</b>

RESULTING BUILDING PRESSURIZATION 9285-7210=2075 CFM. PRESSURIZATION PERCENTAGE = 28.8%

VENTILATION SCHEDULE												
NUM	ROOM NAME	AREA	MECHANICAL VENTILATION (INAC TABLE 403.3 COMPL.)				SERVED BY					
			SUPPLY AIR	EXHAUST	SUPPLY	EXHAUST	RETURN	SUPPLY	EXHAUST			
100	EXIST'S ENTRY	50	26		200						EXIST'S RTU-1	
101	DINING AREA	4950	2640		5445 + 5000CFM = 10445CFM	10254		EXIST'S			EXIST'S RTU-1, RTU-2, RTU-3, NEW MUA-1	HEF-1, HEF-2
102	EXIST'S KITCHEN	2600			EXIST'S TO REMAIN NO WORK			EXIST'S			EXIST'S RTU-4	
103	EXIST'S WOMEN'S	160			EXIST'S TO REMAIN NO WORK						EXIST'S	EXIST'S
104	EXIST'S MEN'S	180			EXIST'S TO REMAIN NO WORK						EXIST'S	EXIST'S
<b>TOTAL</b>		<b>2626</b>				<b>5412</b>						

EXIST'S RTU-1 AND RTU-2, 3 PROVIDERS (16500X33% = 5445CFM FRESH AIR THRU EXIST'S ECONOMIZER + NEW TEMPERED MUA-1 5000CFM

NEW MAKE UP AIR UNIT EQUIPMENT SCHEDULE					
MARK	QTY.	MANUF.	MODEL	CFM	REMARKS
MUA-1	1	VENTILATION DIRECT	VD-V2D-DFHJU-5000	5000	NEW TEMPERED MAKE UP AIR UNIT ON ROOF GAS FIRED 294000BTU

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TOMAHAWK BBQ STEAKHOUSE  
INTERIOR REMODELING  
285 PARKWAY DRIVE LINCOLNSHIRE IL 60069

ISSUES	DATE
ISSUED FOR PERMIT	12/18/2022
REISSUED FOR PERMIT	03/10/2023

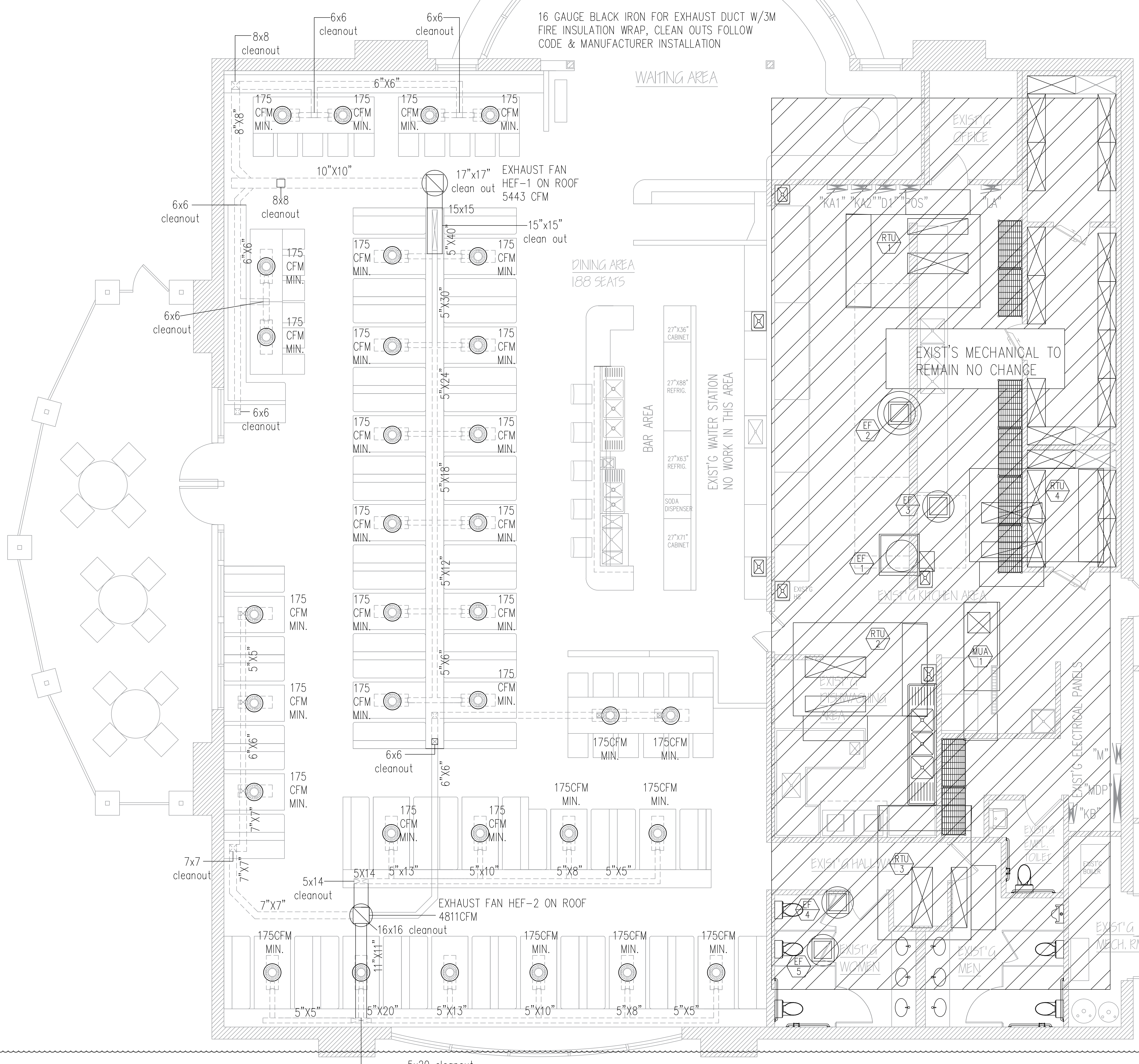


DINING ROOM MECHANICAL PLAN  
SHEET NUMBER

M1

DINING AREA'S EXHAUST FANS & MAKE-UP AIR UNITS BALANCE SCHEDULE						
TAG	QTY.	OUTSIDE AIR CFM	RETURN AIRFLOW CFM	SUPPLY AIR CFM	EXHAUST FAN	EX FLOW
EXIST'G RTU-1	1	1815	3630	5600	HEF-1	5443
EXIST'G RTU-2	1	1815	3630	5600	HEF-2	4811
EXIST'G RTU-3	1	1815	3630	5500		
MUA-1	1	5000				
TOTAL		10445				10254
BUILDING AIR BALANCE		+191CFM				

NEW HIBACHI TABLE AREA'S EXHAUST FANS										
TAG	QTY.	LOCATION	NAME	MODEL	CFM	VOLTAGE	HP	RPM	MOP	
HEF-1'	1	ROOF	EXHAUST FAN 1	DAYTON 7A701	5443	3PH	2HP	1495	30	
HEF-2'	1	ROOF	EXHAUST FAN 2	DAYTON 7A700	4811	3PH	1.5HP	1360	20	



- CLEAN OUT TO MEET IMC506.3.8
- Sections of grease ducts that are inaccessible from the hood or discharge openings shall be provided with cleanout openings spaced not more than 20 feet (6096 mm) apart and not more than 10 feet (3048 mm) from changes in direction greater than 45 degrees (0.79 rad).
  - Cleanouts and openings shall be equipped with tight-fitting doors constructed of steel having a thickness not less than that required for the duct.
  - Cleanout doors shall be installed liquid tight.
  - Door assemblies including any frames and gaskets shall be approved for the application and shall not have fasteners that penetrate the duct.
  - Gasket and sealing materials shall be rated for not less than 1500°F (816°C).
  - Listed door assemblies shall be installed in accordance with the manufacturer's instructions.

- KEYNOTE:
- FIRE PROTECTION SYSTEM UNDER TABLE INSTALLED BY (FIRE PROTECTION CO.) SHALL SUBMIT SHOP DRAWING TO FIRE DEPT. FOR SEPARATE PERMIT AND INSPECTION.
  - EXHAUST DUCT USE 16GA BLACK IRON. NOTE: ALL FIRE BARRIER MATERIALS: INSULATION, CAULK, ETC. MUST BE SUBMITTED THE BUILDING/FIRE DEPARTMENT PRIOR TO USE. ALL PIPING TO SLEEVED THROUGH SLAB. CONTRACTOR TO FULLY SEAL SPACE AROUND PIPES WITH A 2 HOUR U.L. APPROVED FIRE RESISTIVE SAFETY INSULATION.
  - EACH TABLE HAS A MANUAL PULL STATION AND A MECHANICAL GAS SHUT VALVE. EACH TABLE HAS A GAS LINE TO THE BURNER UNDER THE GRILL.
  - EACH TABLE HAS A 1/2" GAS LINE TO THE BURNERS UNDER THE GRILL. GAS PIPING NOTE: A: GAS PIPING TO BE SCHEDULE 40 BLACK IRON PIPE AND INSTALL NSF/ANSI APPROVED QUICK DISCONNECTED GAS LINES. SHUT-OFF GAS VALVE AT ALL GAS APPLIANCES. GAS PIPING UNDER SLAB TO GRIDDLES SHALL BE VENTED TO THE EXTERIOR. PROVIDE GREASE CLEAN OUT ACCESS PANEL IN NEW DUCT AND ENCLOSURE AT ANY CHANGE IN DIRECTION AND ON HORIZONTALLY GREASE DUCTS, OPENINGS REQUIRED WITHIN 12-FOOT INTERVALS.
  - E.C. PROVIDE TOTAL TWO 3/4" RIGID GALVANIZED STEEL TO EACH TABLE AND WIRING.
  - FROM EACH HIBACHI TABLE TO FIRE CONTROL PANEL AND CONNECT ALL NECESSARY WIRES TO ELECTRICAL PANEL. NEED COORDINATE WITH FIRE SYSTEM CONTRACTOR.
  - SUPPLY THE EXHAUST FAN ON-OFF SWITCHES WITH RED INDICATING LIGHTS.
  - C-BOX PROVIDE BY TABLE MANUFACTURE CONTRACTOR PROVIDE ALL WELDERED SEAM CONST. NOTE: MECHANICAL/ELECTRICAL CONTRACTOR PROVIDE ALL WELDERED SEAM CONST. NOTE: MECHANICAL/ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE G.C. AND OTHER TRADE ALL REQUIRED OPENING EXCAVATIONS. ALL REQUIRED OPENINGS IN FUNCTION, FLOOR, WALL AND ROOF SHALL CONSTRUCTED INTO THE STRUCTURE WITH THE USE OF SLEEVES, CURBS ETC. CUTTING AN PATCHING SHALL BE HELD TO A MINIMUM. DRAWINGS INDICATE APPROXIMATE LOCATIONS FOR CLARITY ONLY. EACH CONTRACTOR IS REQUIRED TO VERIFY ALL DIMENSIONS WITH THE ACTUAL CONDITIONS.

**A DINING TABLE EXHAUST PLAN**  
SCALE 1/4" = 1'-0"



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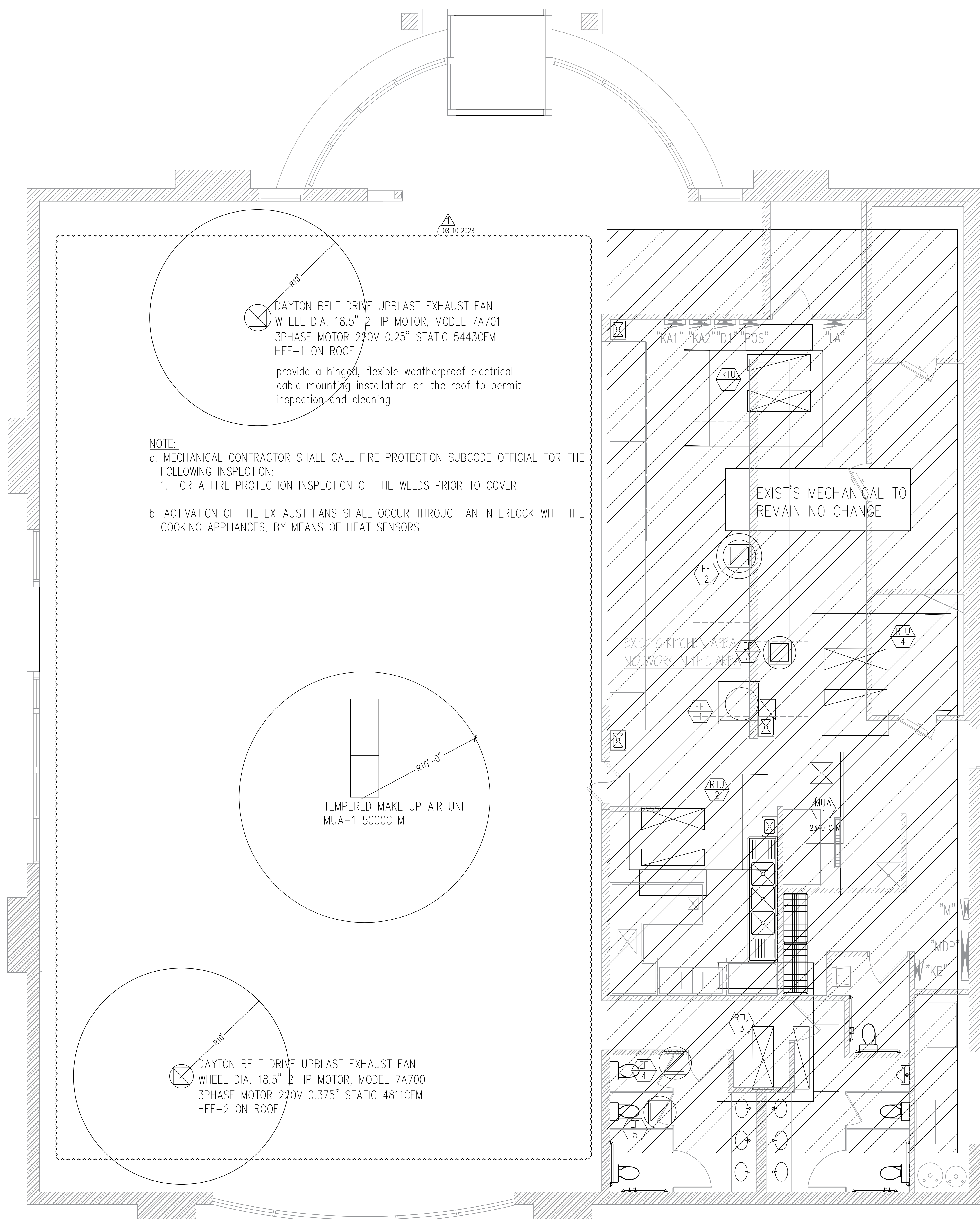
TOMAHAWK BBQ STEAKHOUSE  
INTERIOR REMODELING  
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DINING TABLE  
EXHAUST PLAN

SHEET NUMBER  
**M2**

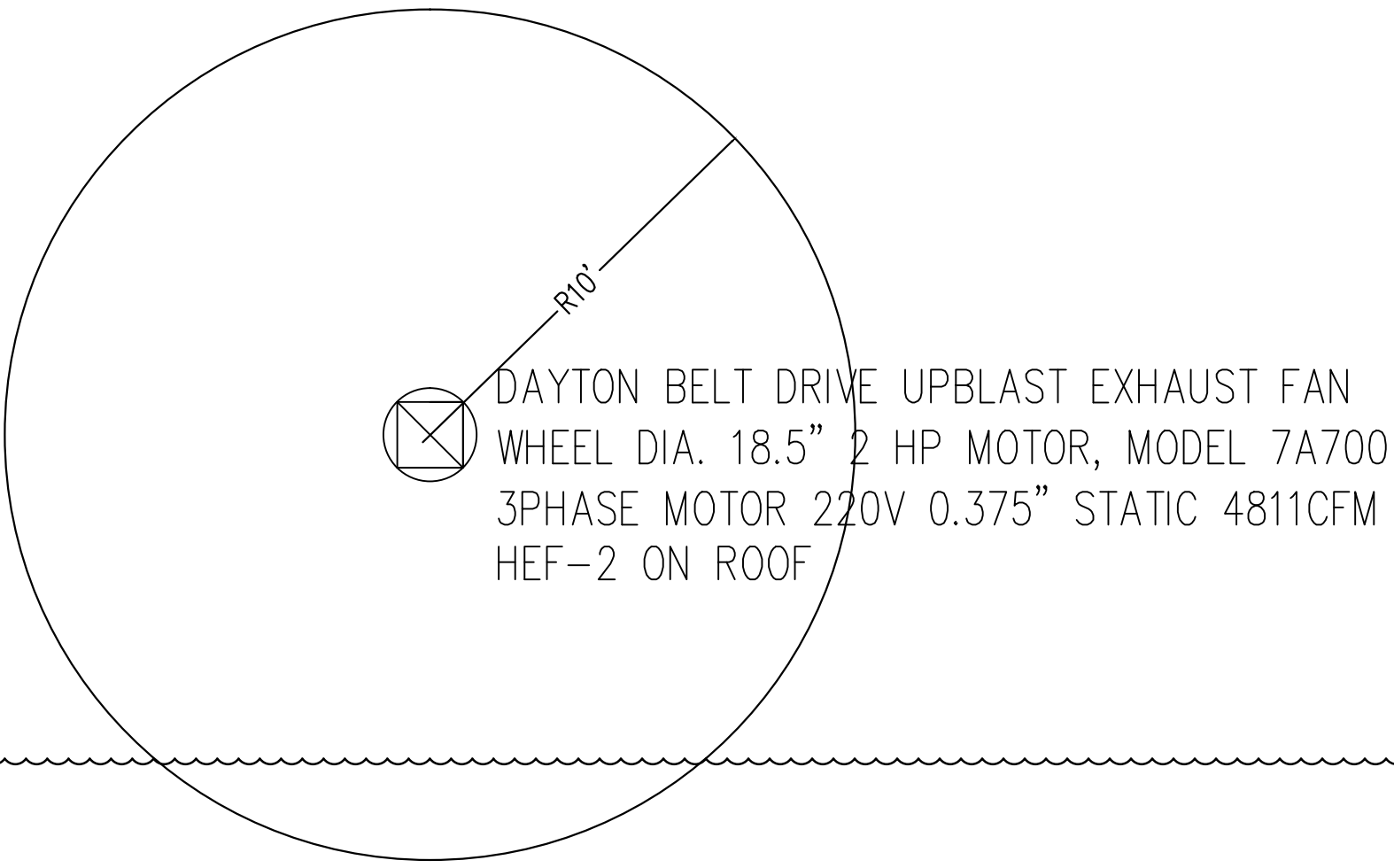
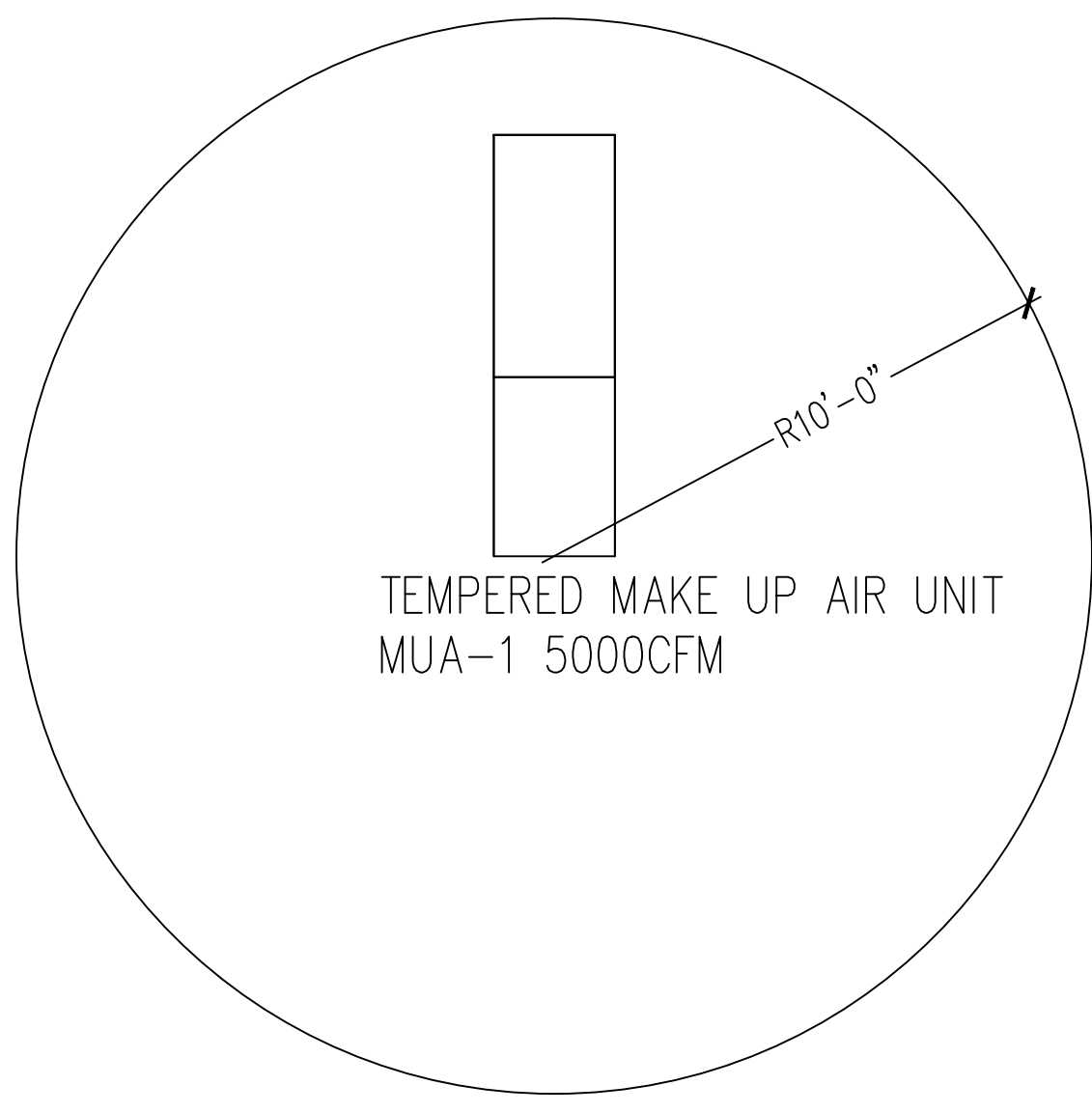
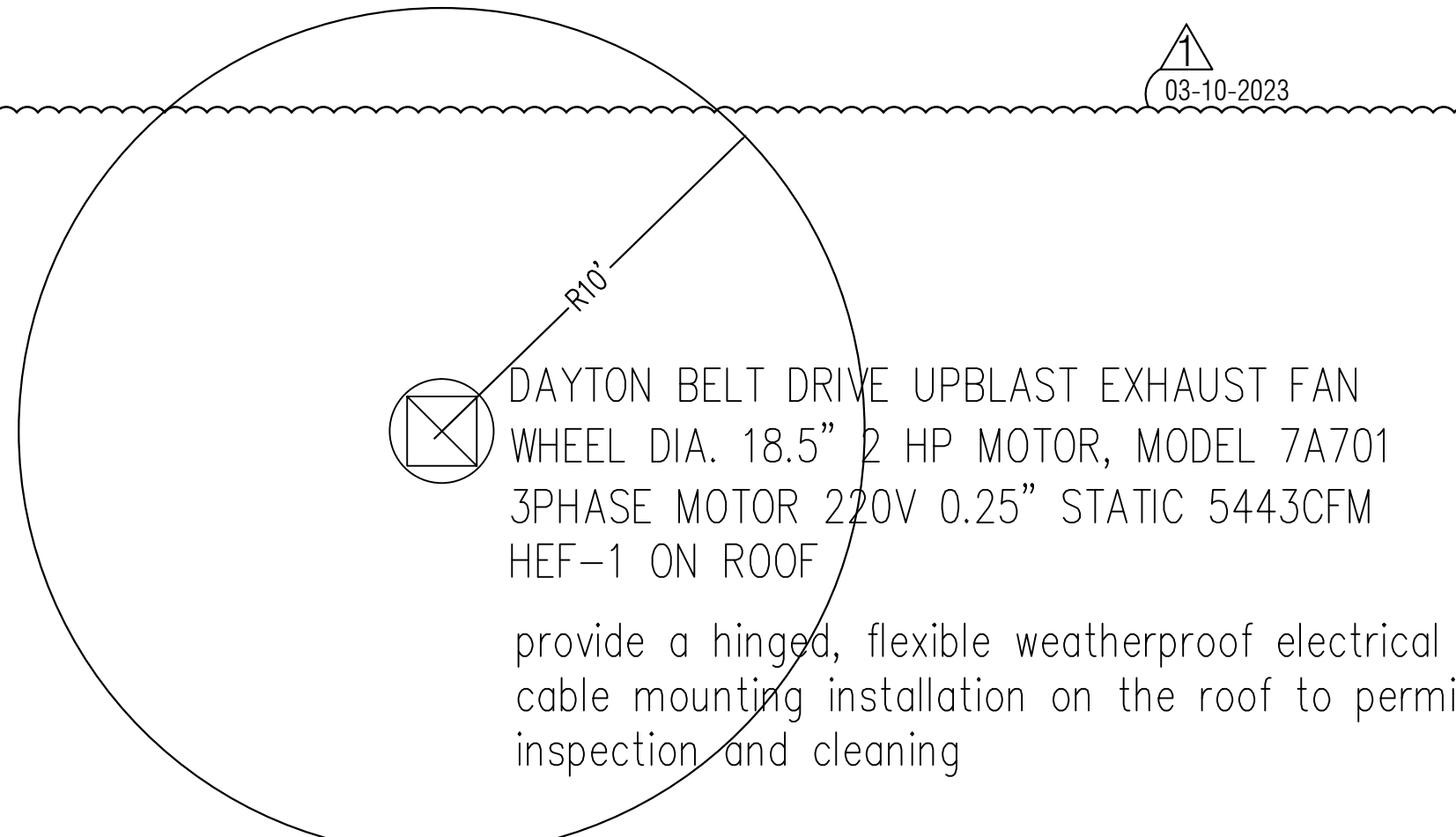


**NOTE:**

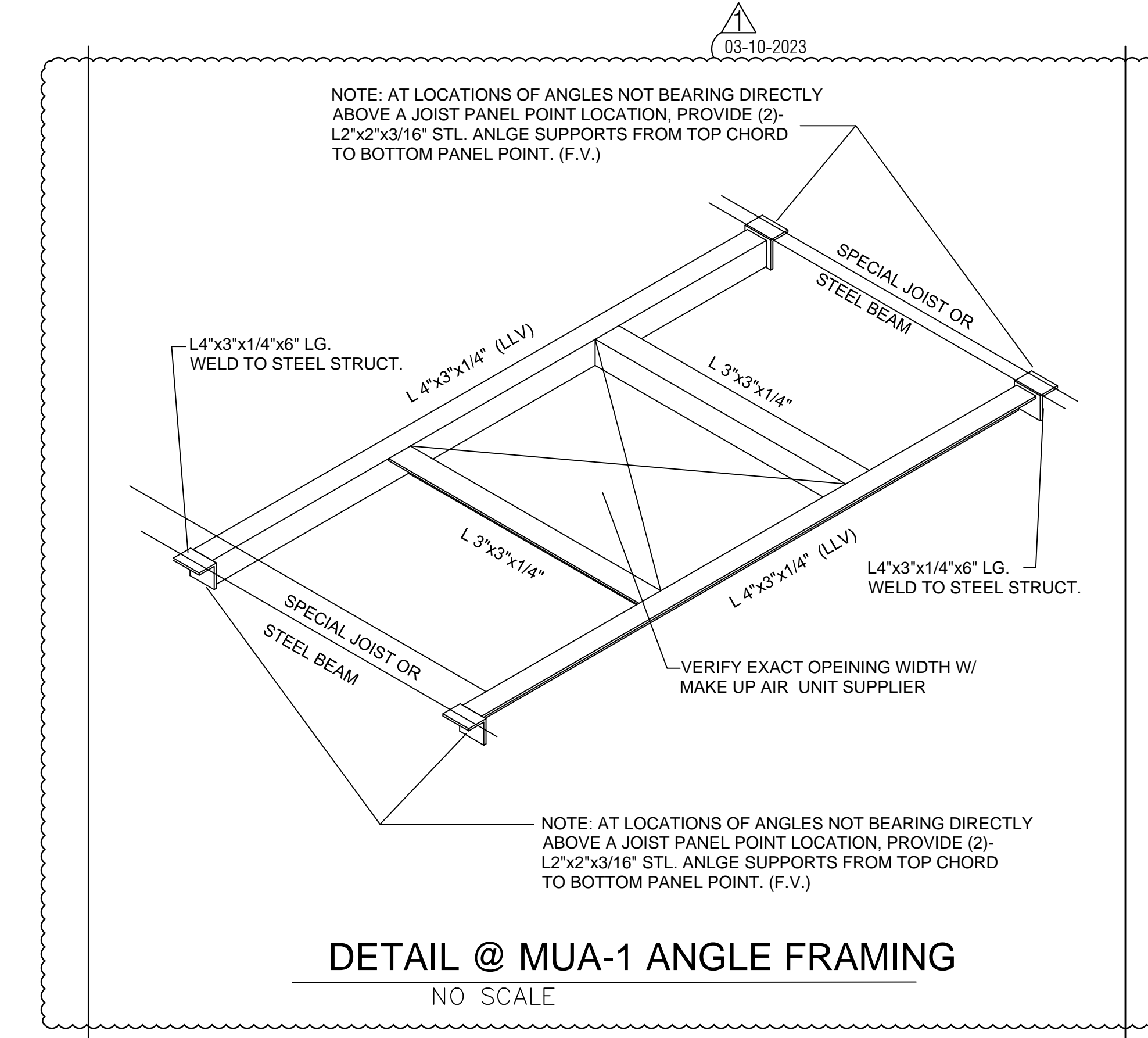
a. MECHANICAL CONTRACTOR SHALL CALL FIRE PROTECTION SUBCODE OFFICIAL FOR THE FOLLOWING INSPECTION:

1. FOR A FIRE PROTECTION INSPECTION OF THE WELDS PRIOR TO COVER

b. ACTIVATION OF THE EXHAUST FANS SHALL OCCUR THROUGH AN INTERLOCK WITH THE COOKING APPLIANCES, BY MEANS OF HEAT SENSORS



- KEYNOTE LEGEND:
1. THE EXHAUST VENTILATION IS REQUIRED TO REMAIN ON DURING FIRE SYSTEM ACTIVATION. EACH TABLE HAS A MANUAL PULL STATION AND A MECHANICAL GAS SHUT VALVE. EACH TABLE HAS A GAS LINE TO THE BURNER UNDER THE GRILL.
  2. ALL UNDERGROUND EXHAUST DUCTS SHALL BE 16GA. BLACK IRON WITH FIRE INSULATION WRAP. AN OPENING LARGER ENOUGH TO PERMIT CLEANING DIRECTION FOR PURPOSE OF INSPECTION AND CLEANING. ON THE HORIZONTAL GREASE DUCTS, OPENINGS ARE REQUIRED WITHIN 12-FOOT INTERVALS (NFPA96.7.4.1.2). VERTICAL DUCTS REQUIRE ACCESS FOR CLEANING ON EACH FLOOR.
  3. 8"X12" GREASE DUCT FIRE PROOF ACCESS PANEL AND ACCESS FRAME NEED WELDED TO DUCT AND FILL CONCRETE AN ALL SIDES.
  4. PROVIDE 1/2" BLACK STEEL PIPE TO EACH TABLE WITH MECHANICAL GAS SHUT VALVE FROM MAIN GAS LINE ABOVE CEILING. ALL GAS PIPING UNDER SLAB TO BE COVERED WITH 1-1/2" PVC. OR CPVC. PIPE STUB UP WALL THRU CEMENT AND SHALL BE VENTED TO THE EXTERIOR. GAS PIPE UNDER TABLE TO BE SEALED/ AIR TIGHT WITH PRE-APPROVED SEALANT ON PVC, OR CPVC. 'VENT' PIPE (NO SEALANT ON CHASE WALL SIDE.)
  5. E.C. PROVIDE TOTAL TWO(2)-3/4" RIGID GAL. STEEL TO EACH TABLE AND WIRING FROM EACH HIBACHI TABLE TO THE ELECTRICAL PANEL.
  6. 4"-#6 GRAVEL BACK-FILL.
  7. THE HEAT DETECTOR OVERHEAD OF THE TABLES IS RATED AT A MINIMUM OF 135° F.
  8. 4" MINIMUM CONCRETE FINISH FLOOR G.C. NEED VERIFY PER VILLAGE REQUIRED.



**A EXHAUST FAN ROOF PLAN**  
SCALE 1/4" = 1'-0"



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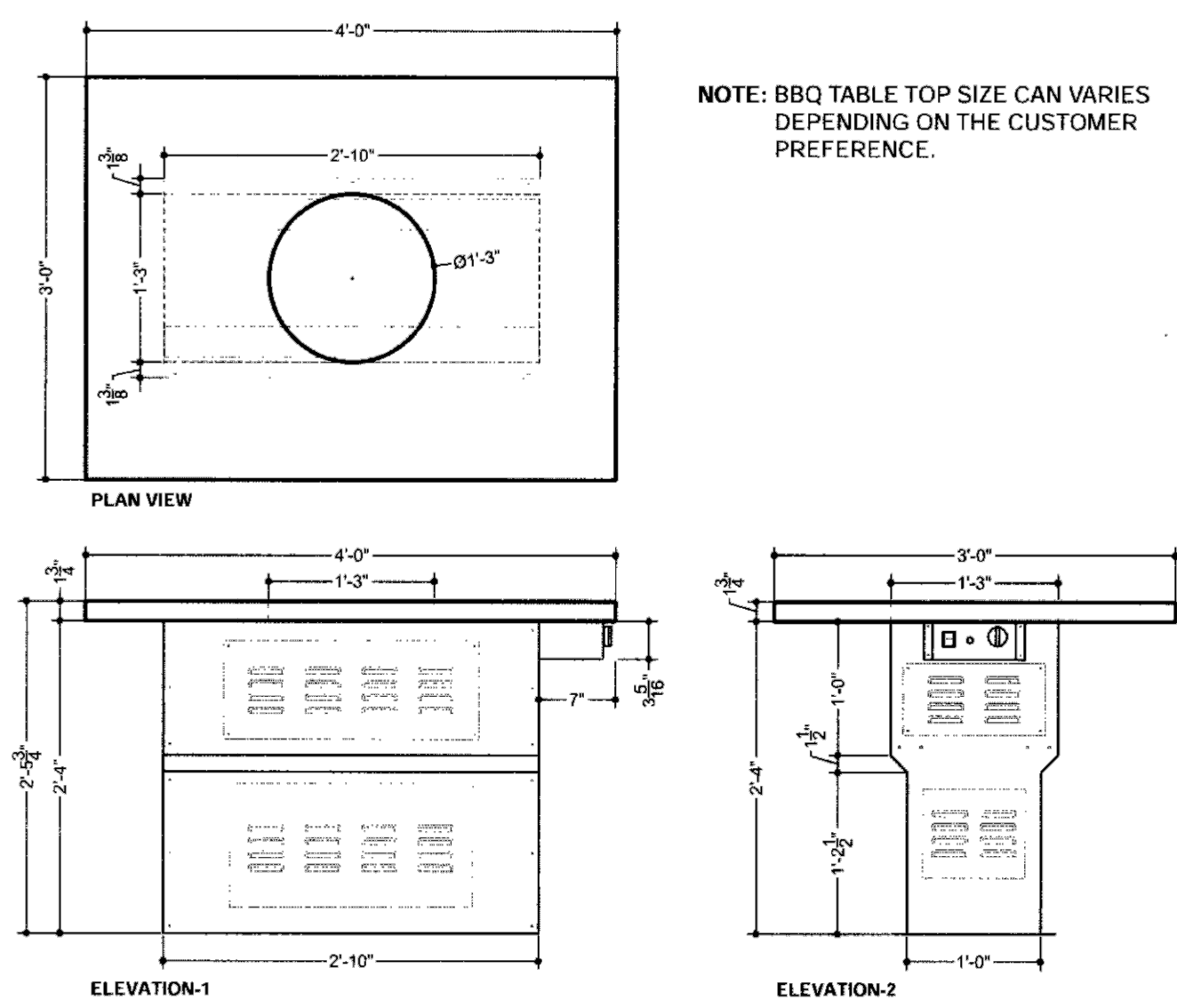
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EXHAUST FAN  
ROOF PLAN

SHEET NUMBER  
**M3**



NOTE: BBQ TABLE TOP SIZE CAN VARY DEPENDING ON THE CUSTOMER PREFERENCE.

**RT-BBQ TABLE SPECIFICATIONS**

Type of Gas	Natural Gas	Propane
Gas Supply Pressure (MAX)	10.5" w.c.	13.0" w.c.
Gas Supply Pressure (MIN)	4.0" w.c.	11.0" w.c.
Appliance Manifold Pressure	4.0" w.c.	10.0" w.c.
Gas Connection	1/2" NPTM	
Gas Ignition	Direct Electric Spark	
Input Ratings	9,500 BTU/HR	
Supply Voltage	115/120 V	
Phase	1	
Hertz	60	
Ampers	Less than 1 (excluding exhaust blower motor)	
Required Static Pressure (per unit)	0.3B37 S.P.	
Exhaust Airflow	149 CFM	

**BBQ TABLE SPECIFICATION**

ROASTER TECH INC.

1

**TABLE FINISHES**

- Roaster Tech Inc. provides a number of table finishes depending on the customer's needs.
- Formica - Laminated Finish (with piano finish wood edges)
- Wood Finish (Stained)
- Granite Finish (Customer can supply their own granite or we can supply them)

**BBQ CFM**

- The listed exhaust air flow volume requirement per agency test is 149 CFM.
- 149 CFM of air flow should be maintained in the individual exhaust duct of each operating unit when the burners are on.
- Building make up of conditioned air should be adequately sized to provide makeup air for operating units.
- Building make up air supply for BBQ table use should meet local codes requirements.
- As a general rule of thumb, for each unit operating, 1/3" of 149 CFM or 49 CFM building make up air should be provided as based on guest use of firing the appliances for 1/3" of seating time during use.

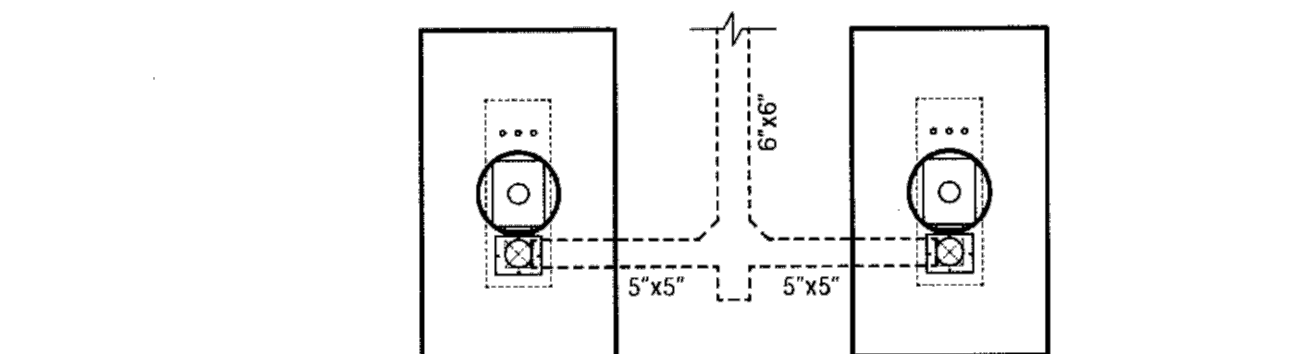
**INSTALLATION REQUIREMENTS**

- 120 Volt/60 hertz/1 phase electric power must be provided to the appliance with suitably grounded circuit. Appliance can be cord connected if so allowed by local codes.
- Where allowed by local codes, ducts can be assembled and sealed using suitable high temperature sealing materials such as Permatex "Ultra Copper" or equivalent which are suitable in non food zones and is rated for continuous use at temperatures of up to 600°F with periodic exposure to 700°F. In designated food zones areas, NSF 51 listed Permatex Ultra Blue or The Right Stuff or equivalent products may also be utilized.
- Recommended maximum duct length outside of appliance is 50 feet plus three 90° elbows (sweep or sharp turn). Duct length can exceed the recommended length; however a larger motor might be required to meet the required listed exhaust air flow volume.
- Minimum recommended duct length is 8 feet.
- 5" or 4" diameter ducting is recommended. A velocity pressure of 0.078" for 5" diameter and 0.185" for 4" as measured with pilot tube and slope gage downstream from the appliance will verify the required air flow.
- Recommended duct material is 16 gauge black iron.
- Cleanout openings must be provided.
  - At main vertical duct 12" from the finish floor
  - Must be located at all direction changes in the ductwork
  - Long straight vertical and horizontal runs may need additional cleanouts to allow the system to be completely inspected and cleaned.

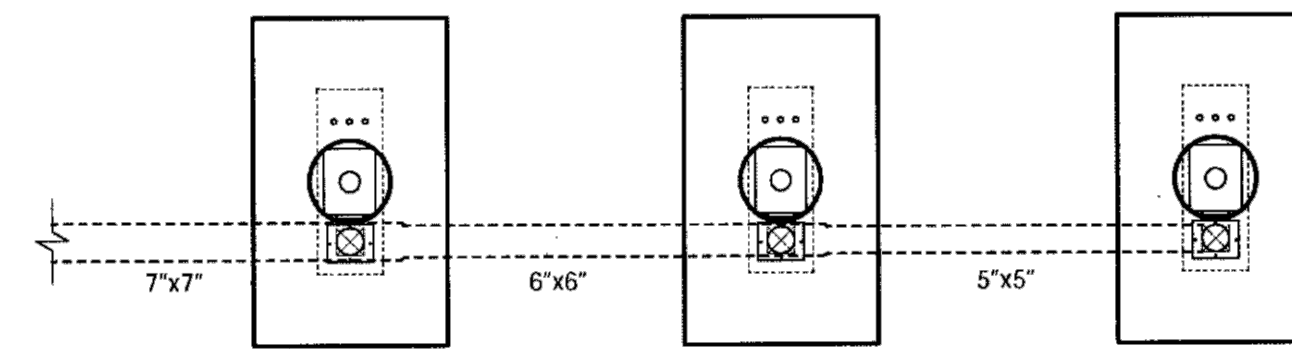
**BBQ TABLE REQUIREMENTS**

ROASTER TECH INC.

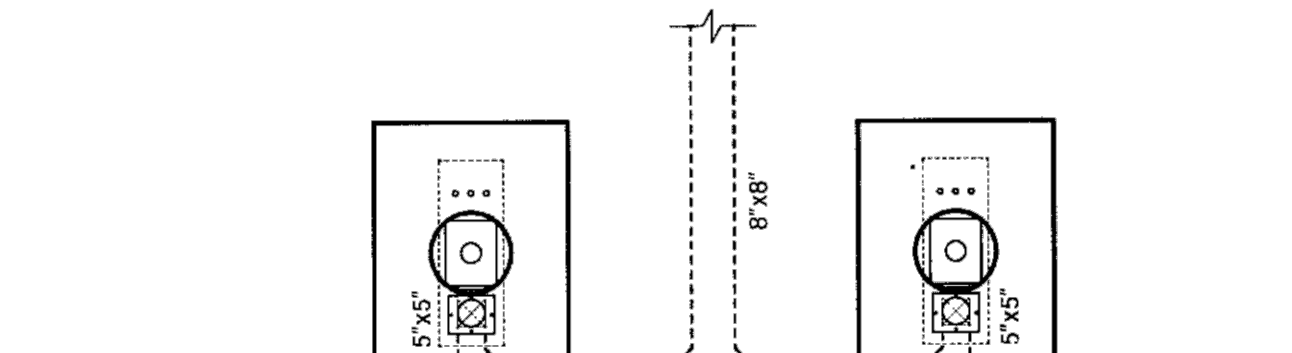
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1 BBQ DUCT SIZE EXAMPLE-1 N.T.S.



2 BBQ DUCT SIZE EXAMPLE-2 N.T.S.



3 BBQ DUCT SIZE EXAMPLE-3 N.T.S.

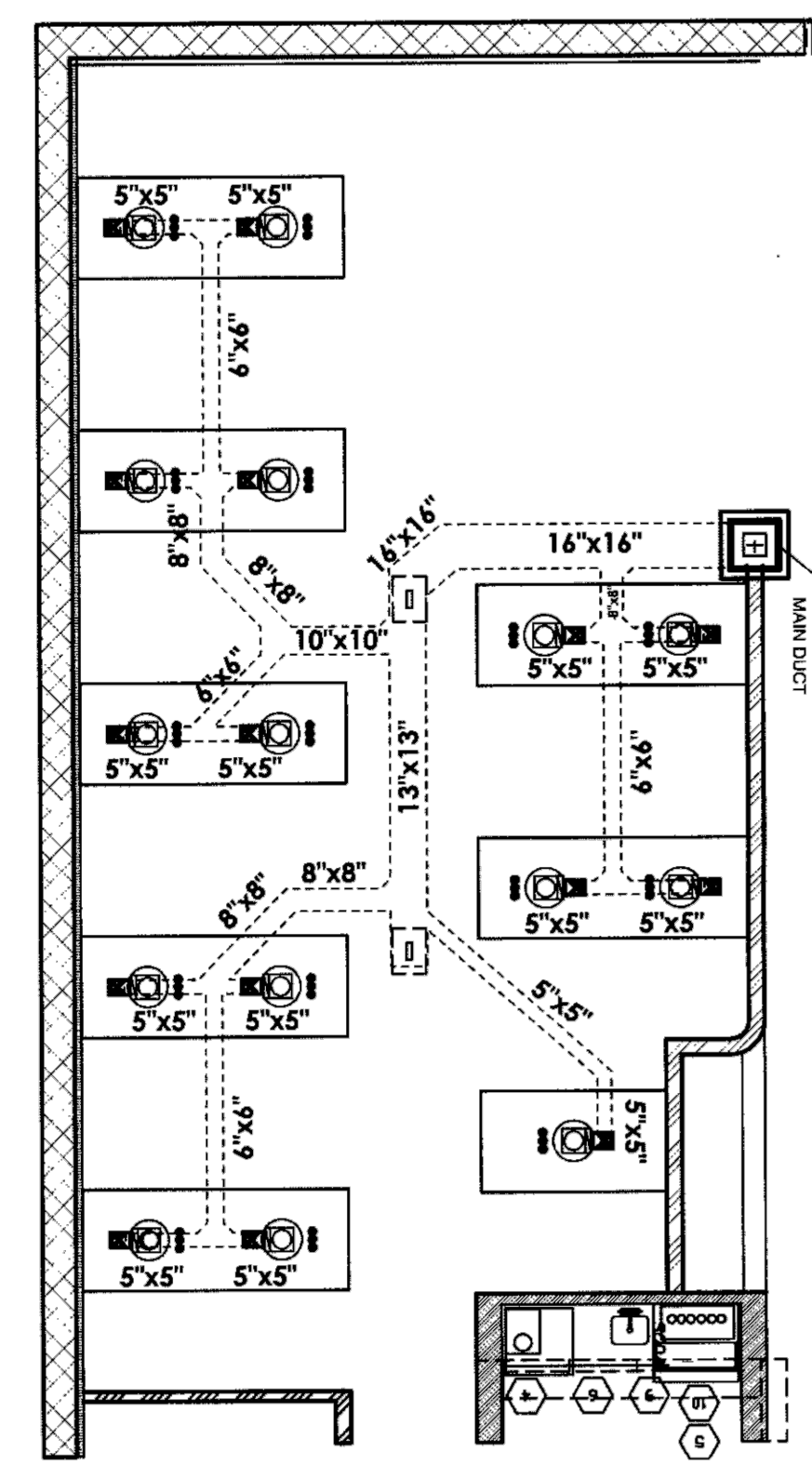
**DUCT SIZE EXAMPLES**

ROASTER TECH INC.

21

**BBQ TABLE DUCT SIZE MATRIX**

Table Burner	CFM	Duct Size
1	175	5"
2	350	6"
3	525	7"
4	700	8"
5	875	9"
6	1050	10"
7	1225	11"
8	1400	12"
9	1575	12"
10	1750	12"
11	1925	13"
12	2100	14"
13	2275	14"
14	2450	14"
15	2625	14"
16	2800	15"
17	2975	15"
18	3150	16"
19	3325	16"
20	3500	17"
21	3675	17"
22	3850	17"
23	4025	17"
24	4200	17"



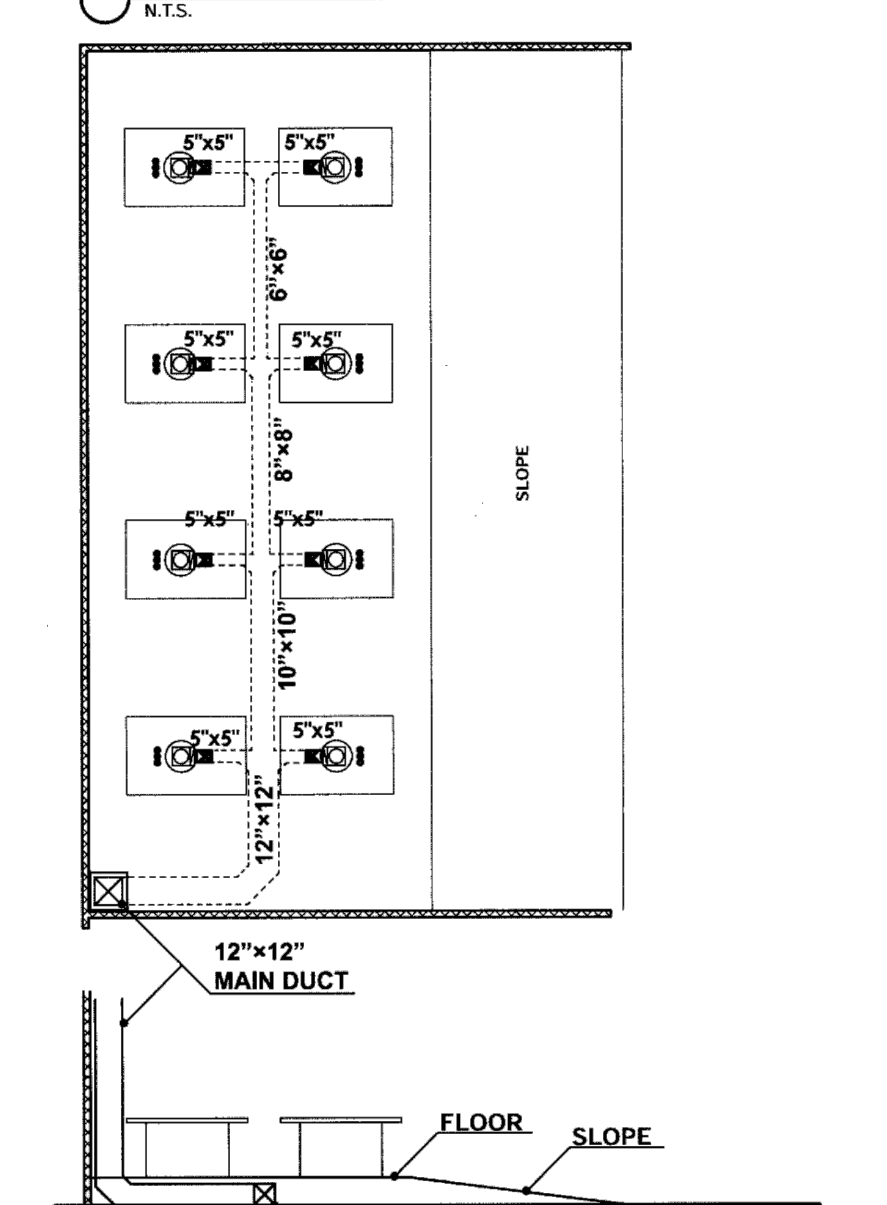
3 SAMPLE FLOOR PLAN FOR BBQ DUCT SIZE N.T.S.

**DUCT SIZE EXAMPLES**

ROASTER TECH INC.

22

**SAMPLE FLOOR PLAN FOR BBQ DUCT SIZE (ABOVE FLOOR)-3**

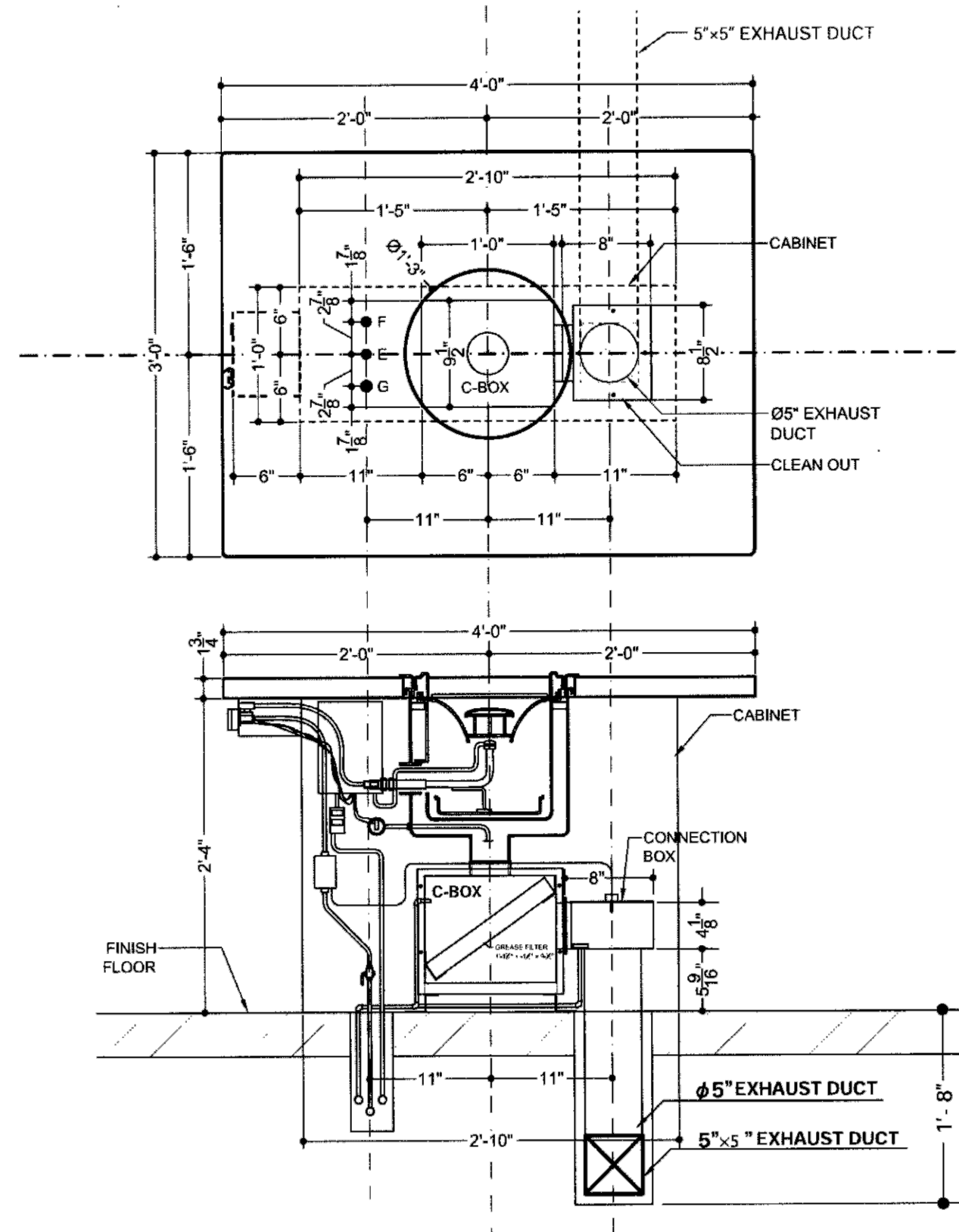


DUCT SIZE EXAMPLES

25

**STANDARD BBQ TABLE SECTION**

N.T.S.



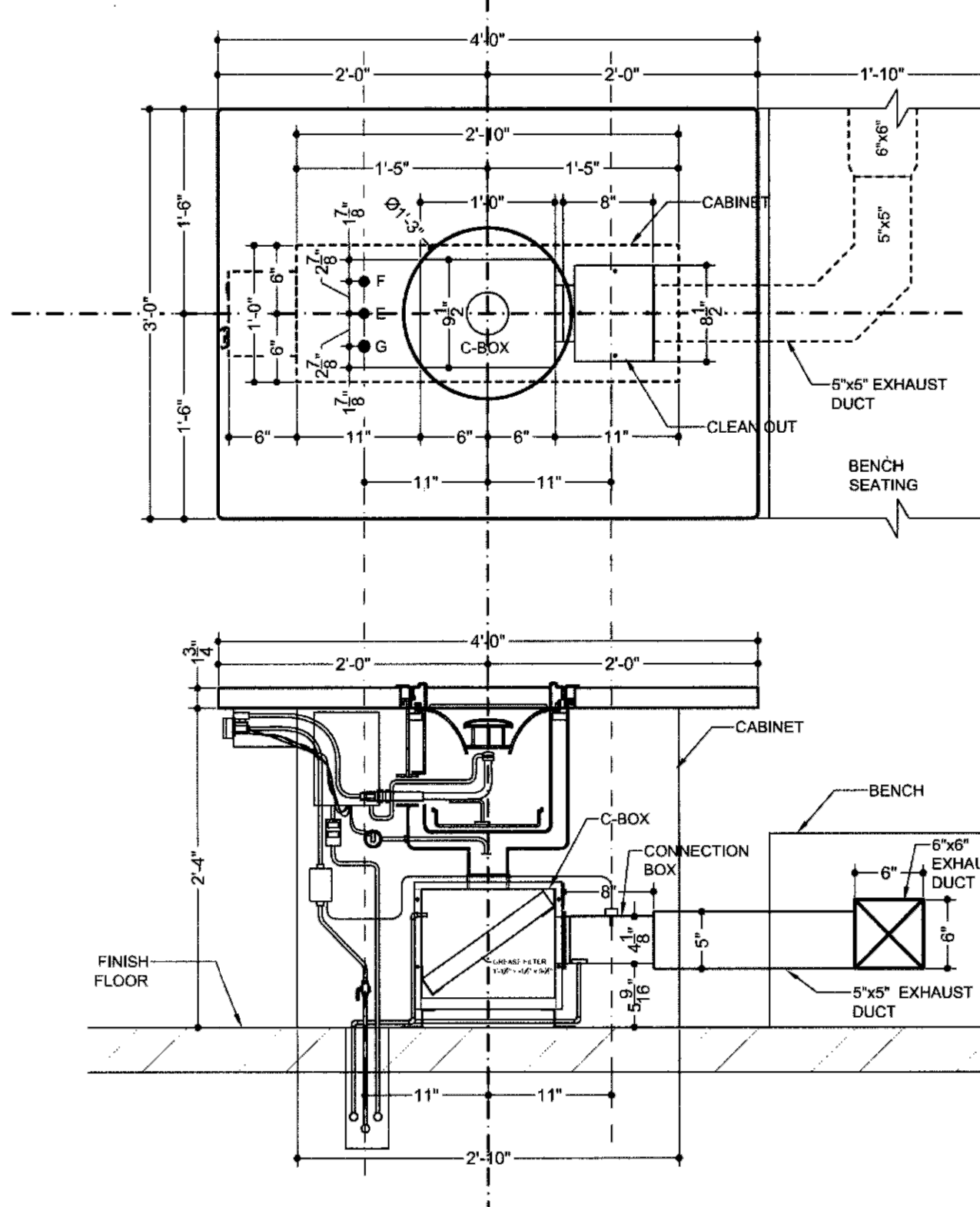
STANDARD BBQ TABLE SECTION

ROASTER TECH INC.

8

**STANDARD BBQ TABLE SECTION (DUCT INSTALLATION ABOVE FLOOR)**

N.T.S.



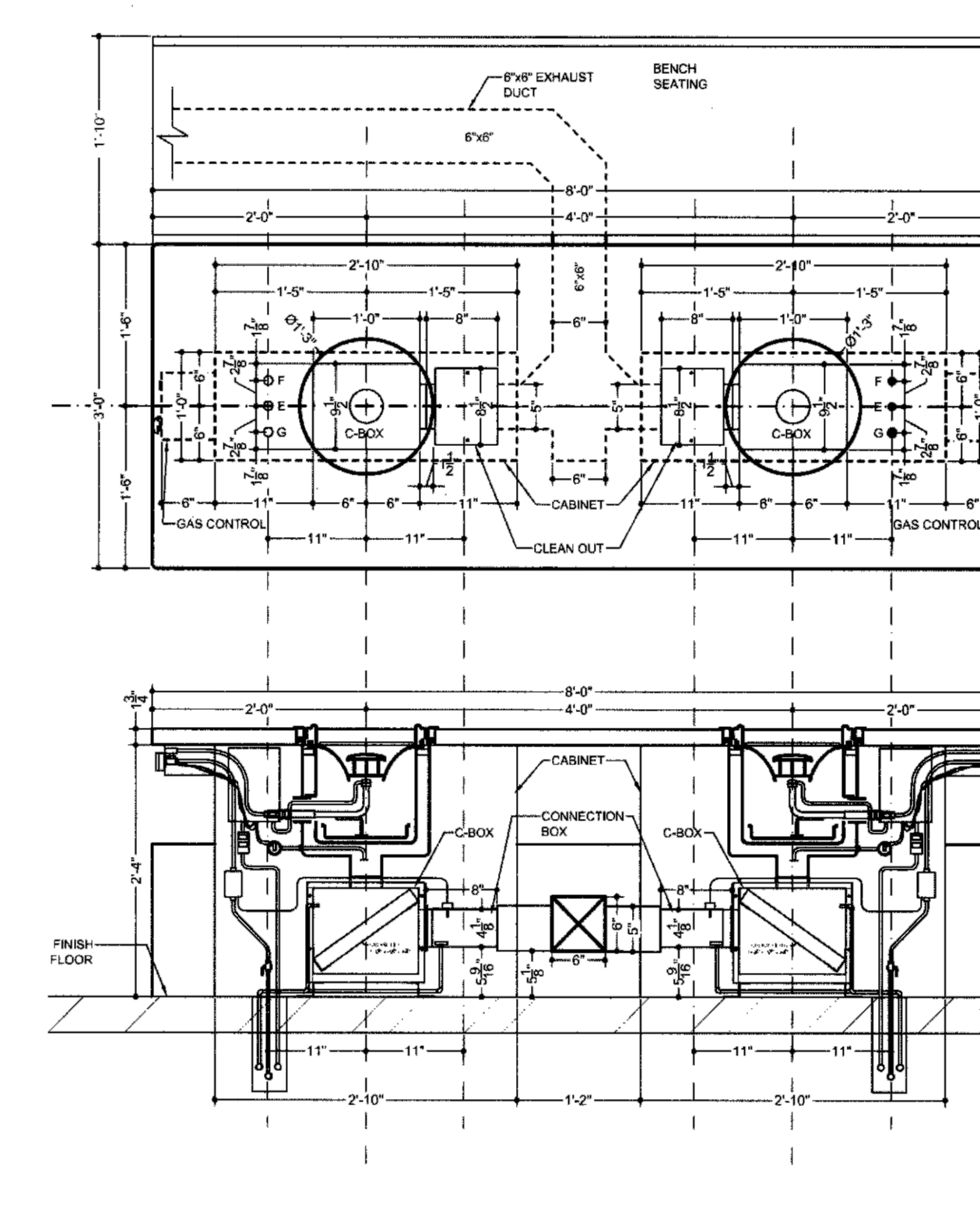
STANDARD BBQ TABLE SECTION (DUCT ABOVE FLOOR LEVEL INSTALLATION)

ROASTER TECH INC.

10

**DOUBLE BBQ TABLE SECTION (DUCT INSTALLATION ABOVE FLOOR)**

N.T.S.



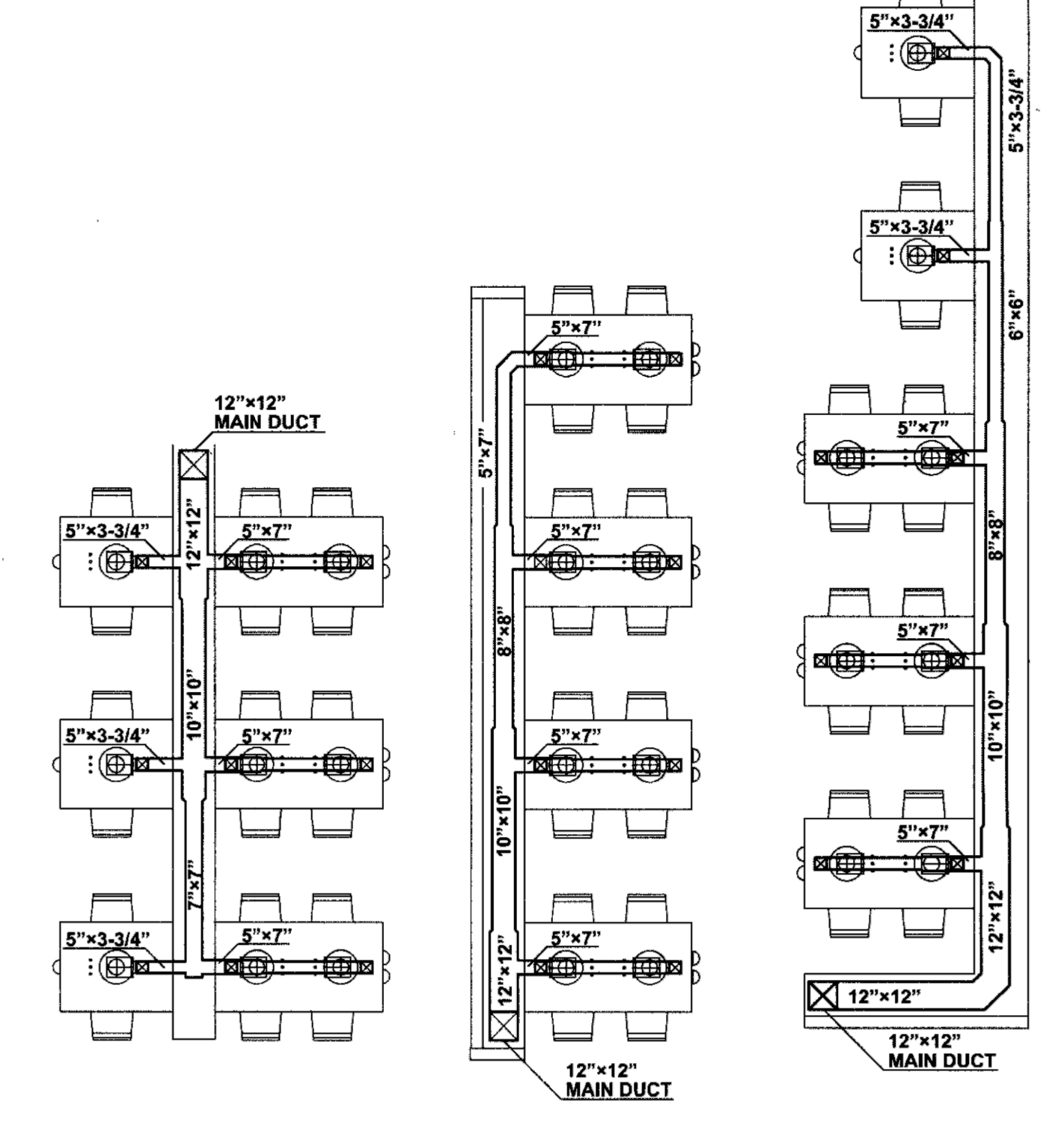
DOUBLE BURNERS BBQ TABLE SECTION (DUCT ABOVE FLOOR LEVEL INSTALLATION)

ROASTER TECH INC.

11

**SAMPLE FLOOR PLAN FOR BBQ DUCT SIZE (ABOVE FLOOR)**

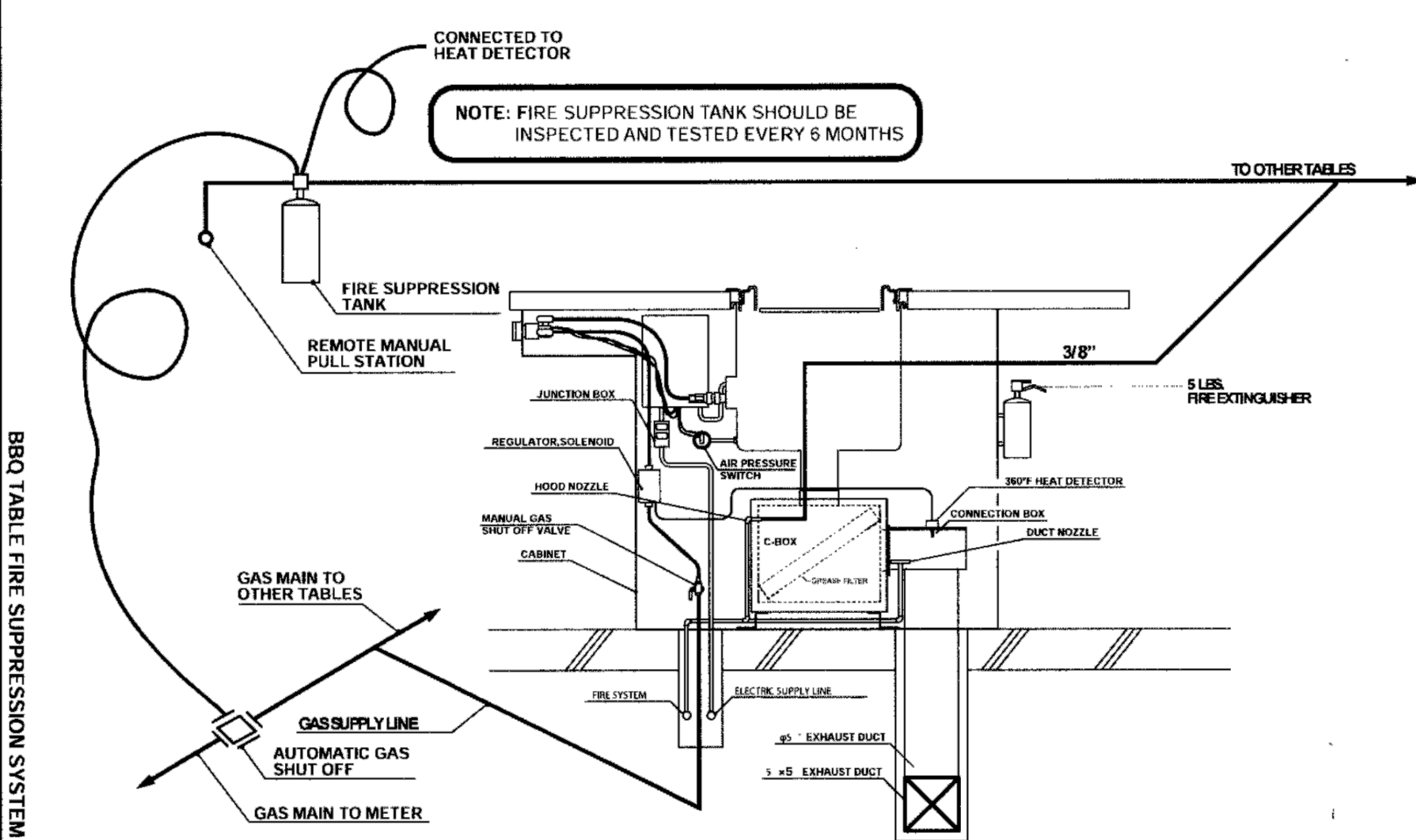
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**DUCT SIZE EXAMPLES**

ROASTER TECH INC.

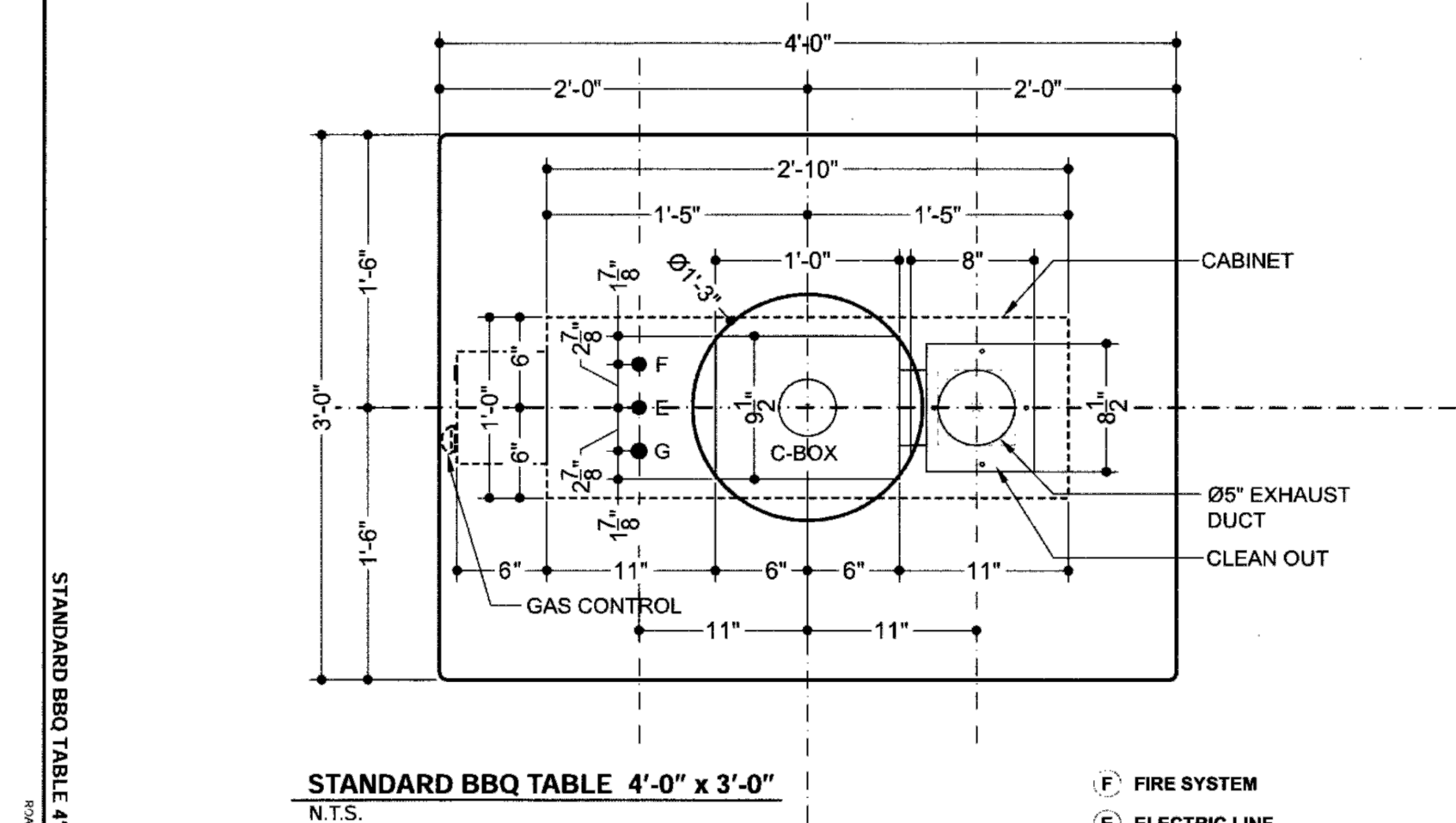
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BBQ FIRE SUPPRESSION SYSTEM DIAGRAM

N.T.S.

26



STANDARD BBQ TABLE 4'-0" x 3'-0"

N.T.S.

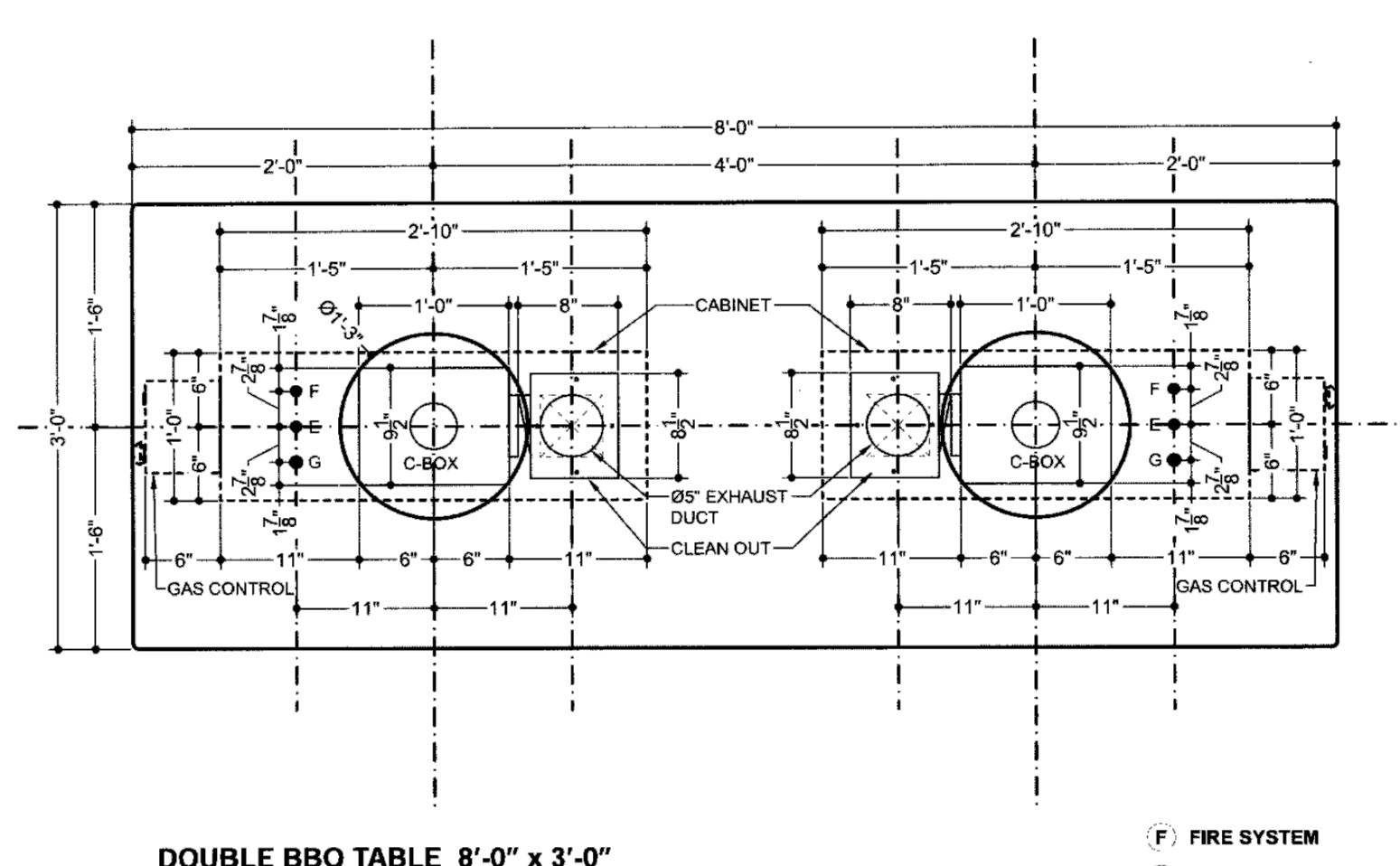
NOTE: STANDARD BBQ TABLE SIZE (SINGLE BURNER) COMES IN 4'-0"x3'-0" OR 5'-0"x3'-0". TABLE SIZE CAN BE CUSTOMIZE ACCORDING TO CUSTOMER PREFERENCE.

F FIRE SYSTEM

E ELECTRIC LINE

G GAS LINE

6



DOUBLE BBQ TABLE 8'-0" x 3'-0"

N.T.S.

NOTE: DOUBLE BBQ TABLE SIZE (DOUBLE BURNER) COMES IN 6'-0"x3'-0" TO 8'-0"x3'-0". TABLE SIZE CAN BE CUSTOMIZE ACCORDING TO CUSTOMER PREFERENCE.

F FIRE SYSTEM

E ELECTRIC LINE

G GAS LINE

7

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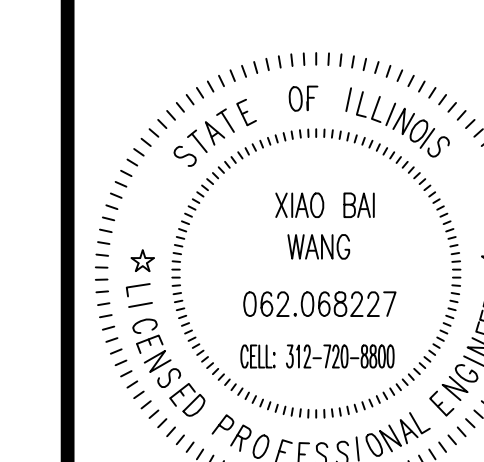
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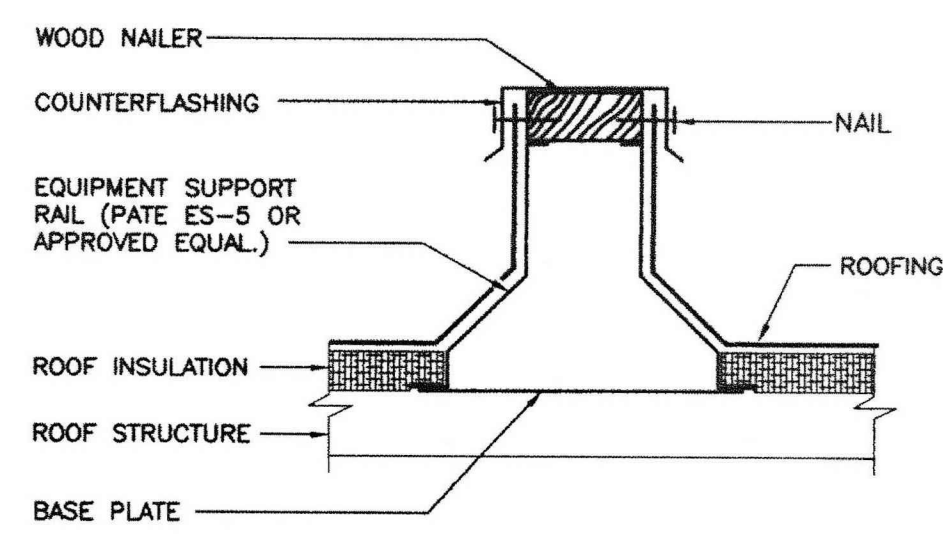
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ISSUED FOR PERMIT	12/18/2022
REISSUED FOR PERMIT	03/10/2023



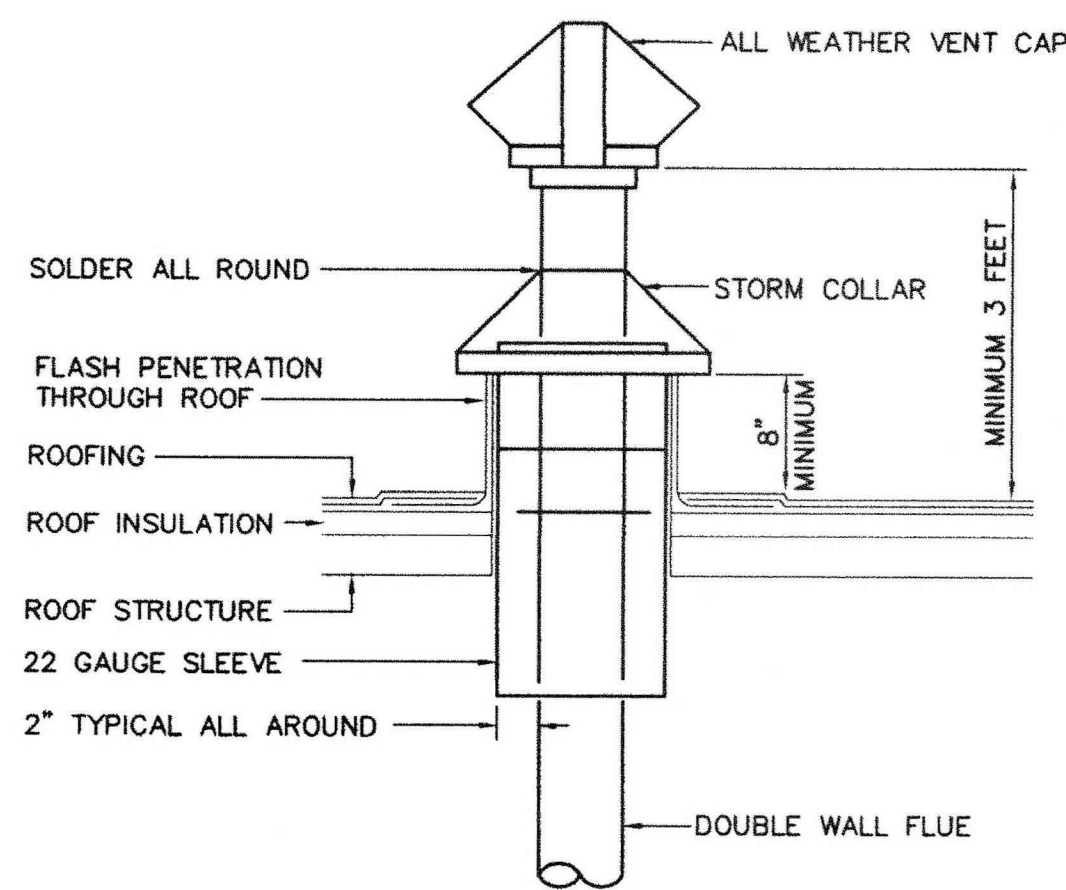
EXHAUST DUCT  
DETAILS

SHEET NUMBER

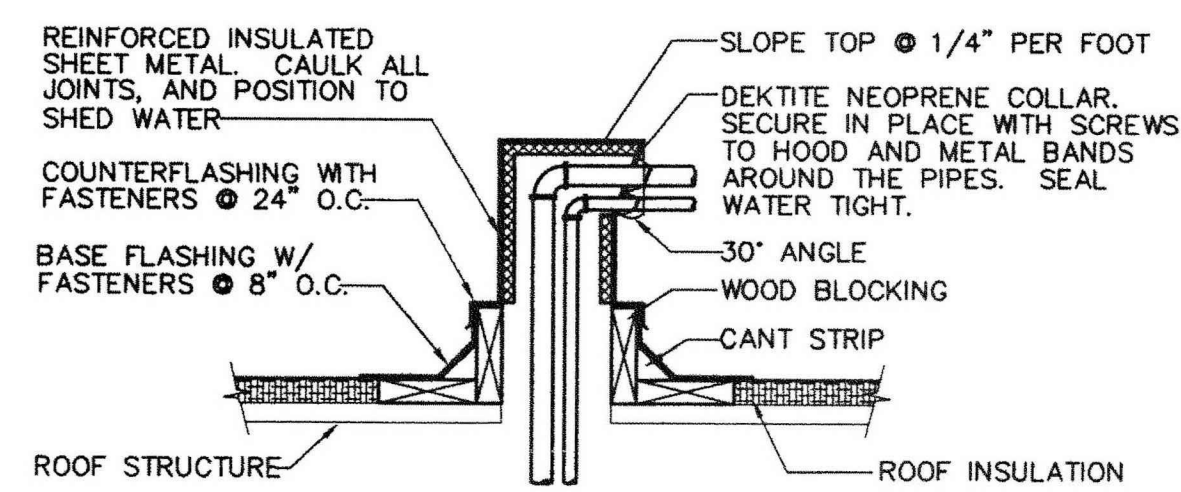
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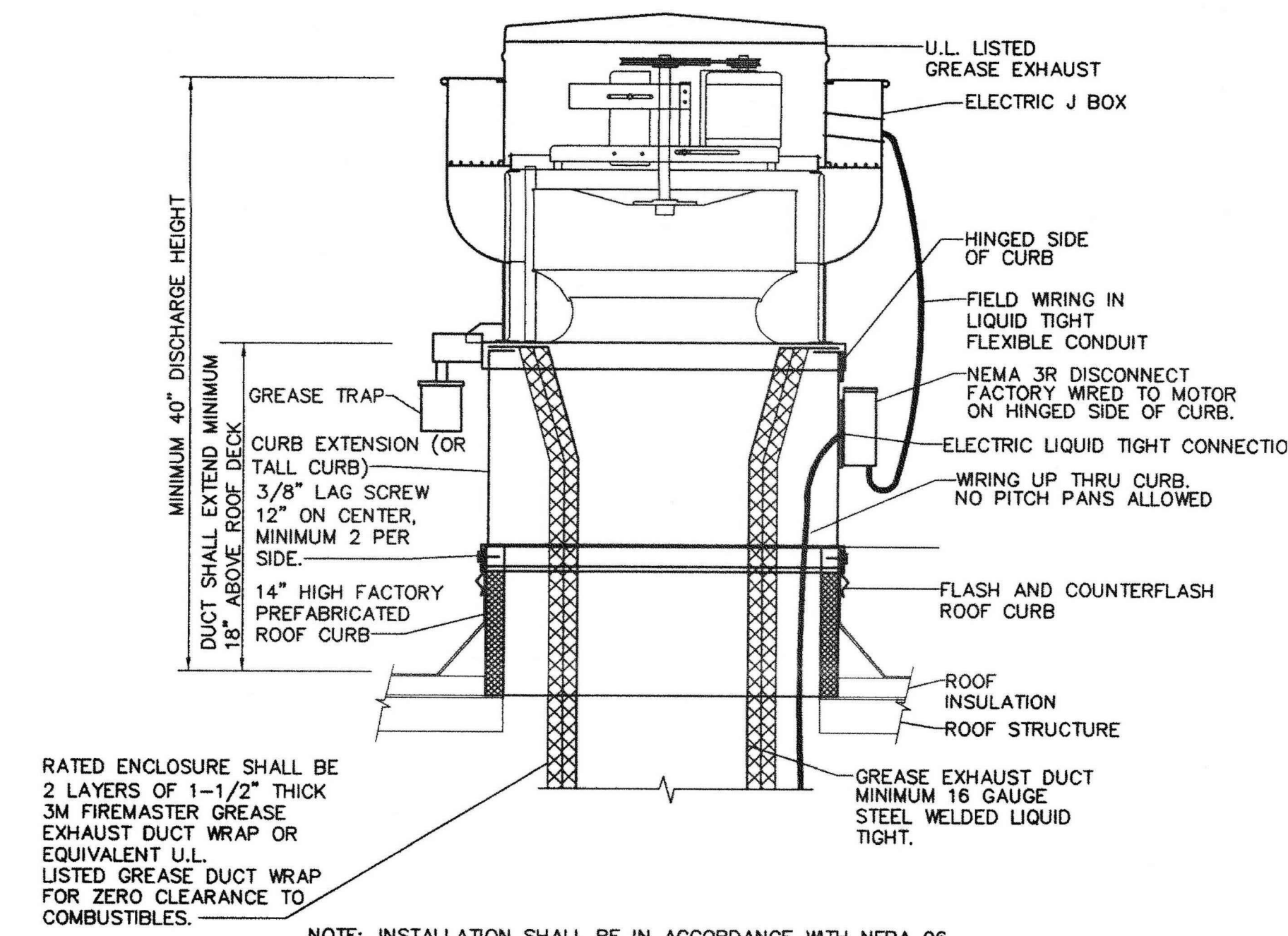
**03 EQUIPMENT SUPPORT RAIL DETAIL**  
NOT TO SCALE



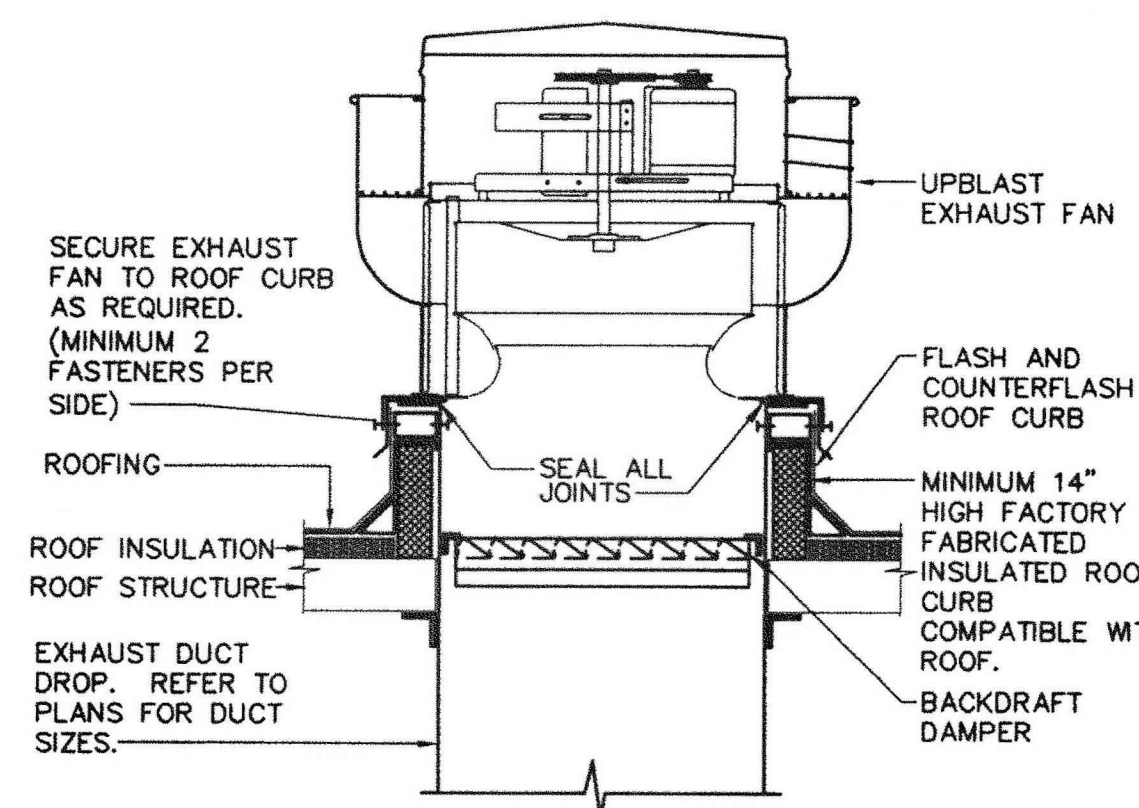
**04 FLUE THROUGH ROOF DETAIL**  
NOT TO SCALE



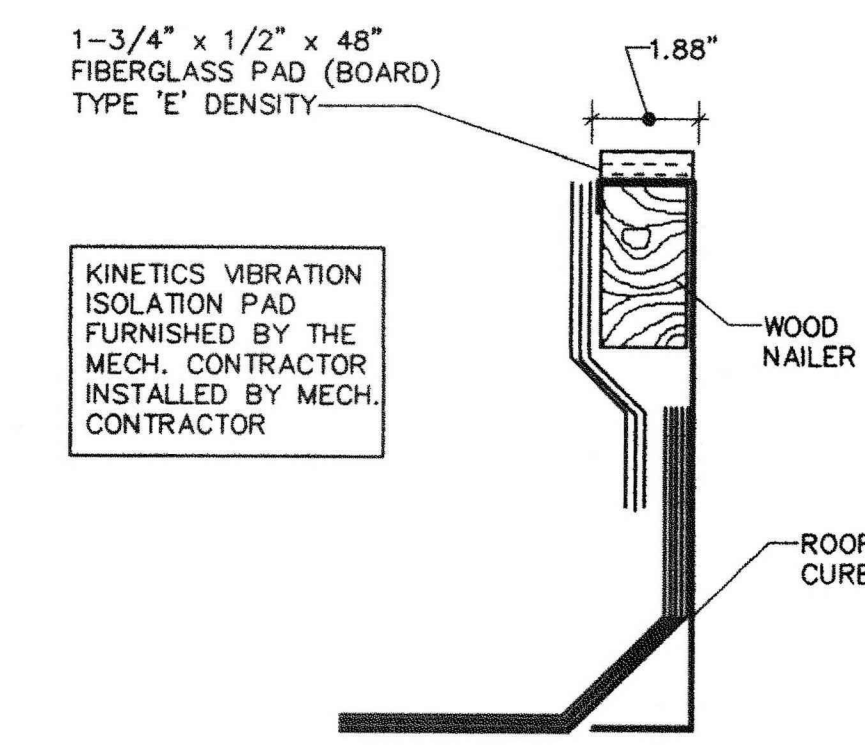
**08 REFRIGERANT PIPE ROOF PENETRATION**  
NOT TO SCALE



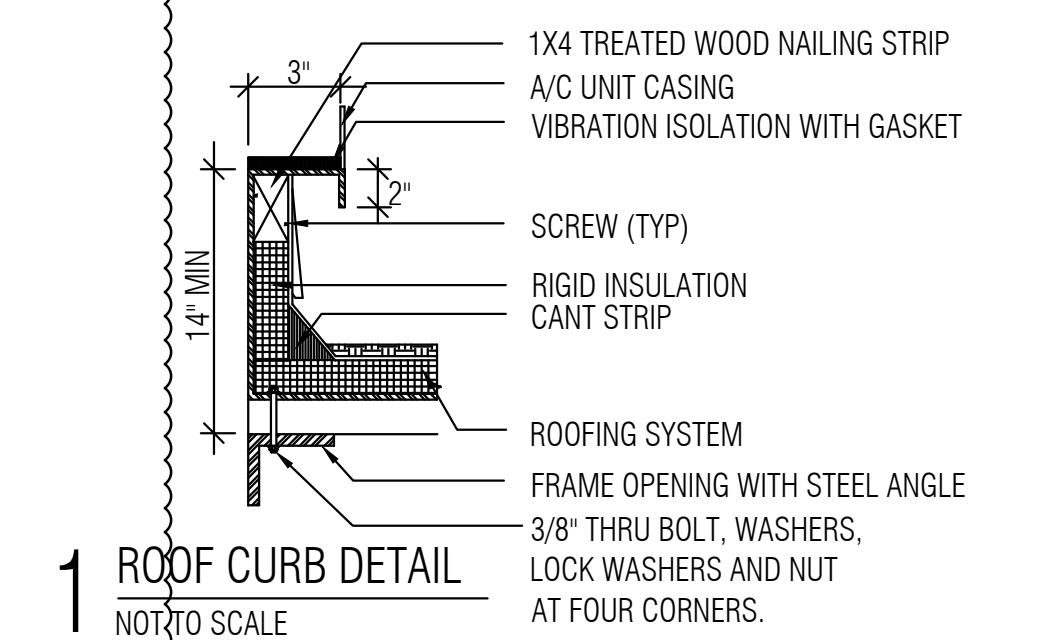
**02 GREASE EXHAUST FAN (UPBLAST)**  
NOT TO SCALE



**05 UPBLAST ROOF EXHAUST FAN**  
NOT TO SCALE



**06 CURB VIBRATION ISOLATION PAD**  
NOT TO SCALE



**1 ROOF CURB DETAIL**  
NOT TO SCALE

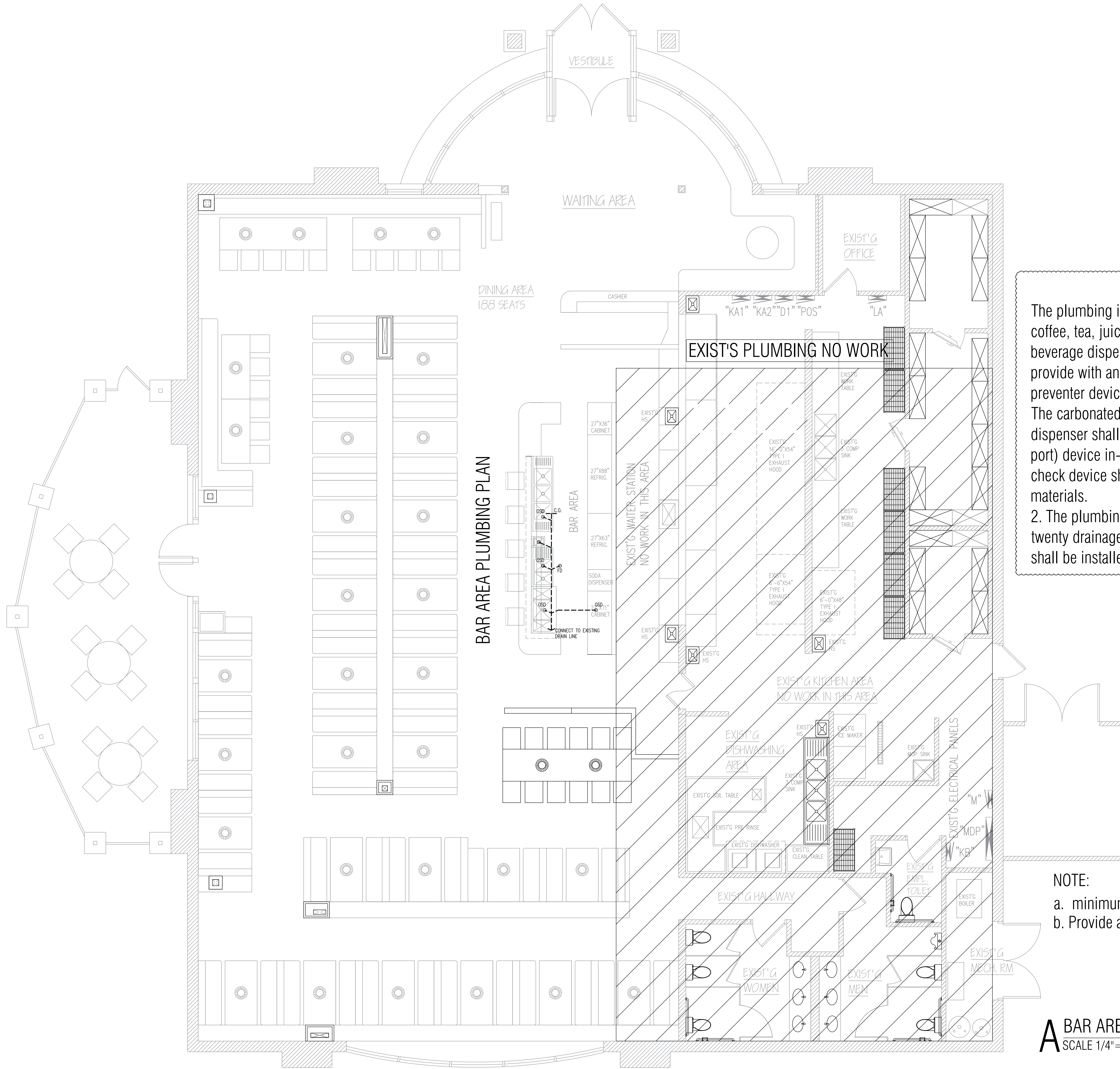
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TOMAHAWK BBQ STEAKHOUSE  
INTERIOR REMODELING  
285 PARKWAY DRIVE LINCOLNSHIRE IL 60069

ISSUES	DATE
ISSUED FOR PERMIT	12/18/2022
REISSUED FOR PERMIT	03/10/2023



EXHAUST FAN ON  
ROOF DETAILS



03-10-2023

The plumbing inspector shall field verify each ice machine, coffee, tea, juices, or similar beverage dispensers supplied with potable water, shall be provide with an approved backflow preventer device appropriate for each type of machine. Note: The carbonated beverage dispenser shall have an ASSE 1022 or ASSE 1032 (with port) device in-line and the double check device shall be constructed of integral stainless steel materials.

2. The plumbing inspector shall field verify no more than twenty drainage fixture units (20 dfu) shall be installed on a two-inch (2") vent line

NOTE:

a. minimum slop of  $\frac{1}{8}$ " per foot per code

b. Provide a clear out in the wall within 1 ft from the floor.

**A** BAR AREA PLUMBING PLAN  
SCALE 1/4" = 1'-0"



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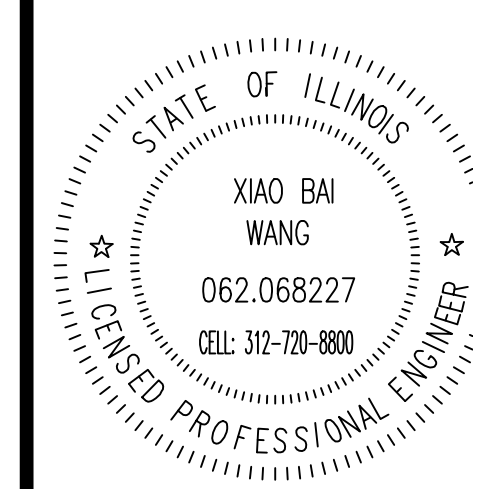
LICENSE NO: 001-022013  
EXPIRES: 11/30/2024

MEP ENGINEER  
236 W ALEXANDER STREET  
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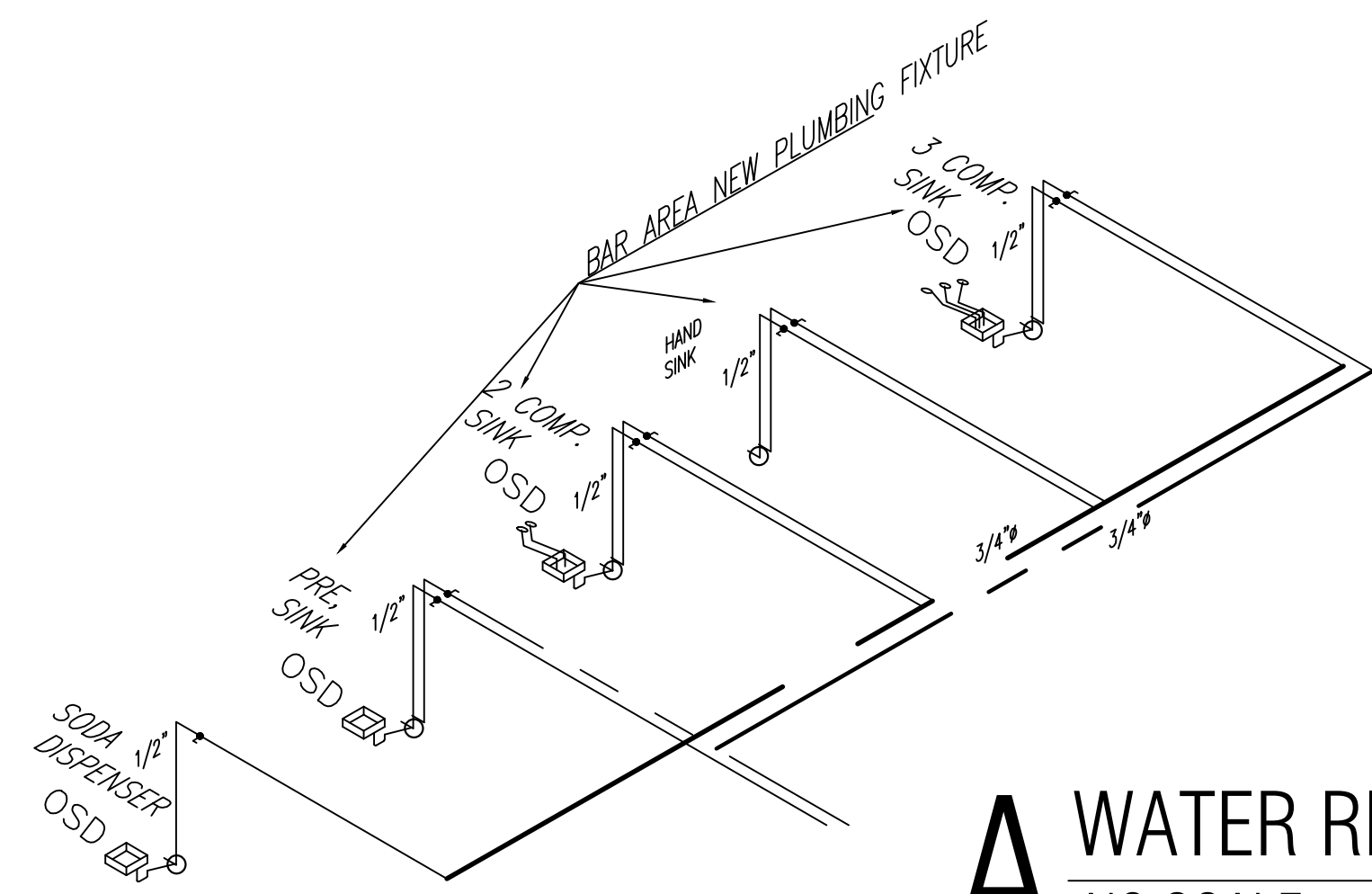
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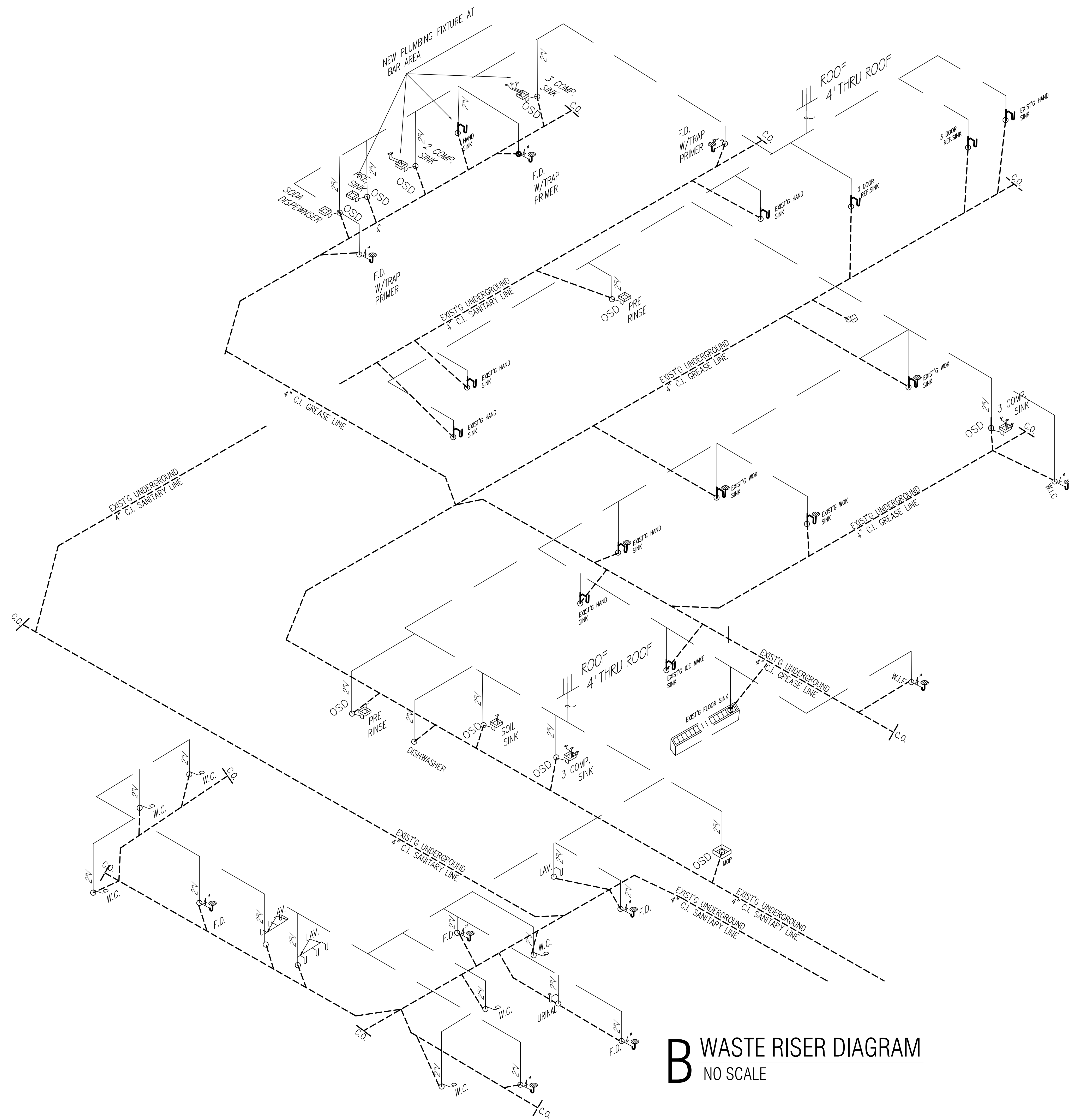
BAR AREA  
PLUMBING PLAN

SHEET NUMBER  
**P1**



**A** WATER RISER DIAGRAM  
NO SCALE

NEW PLUMBING FIXTURES	
PLUMBING FIXTURES	QTY
3 COMP BAR SINK	1
ICE BIN	1
2 COMP BAR SINK	1
HAND SINK	1
SODA DISPENSER	1



**B** WASTE RISER DIAGRAM  
NO SCALE

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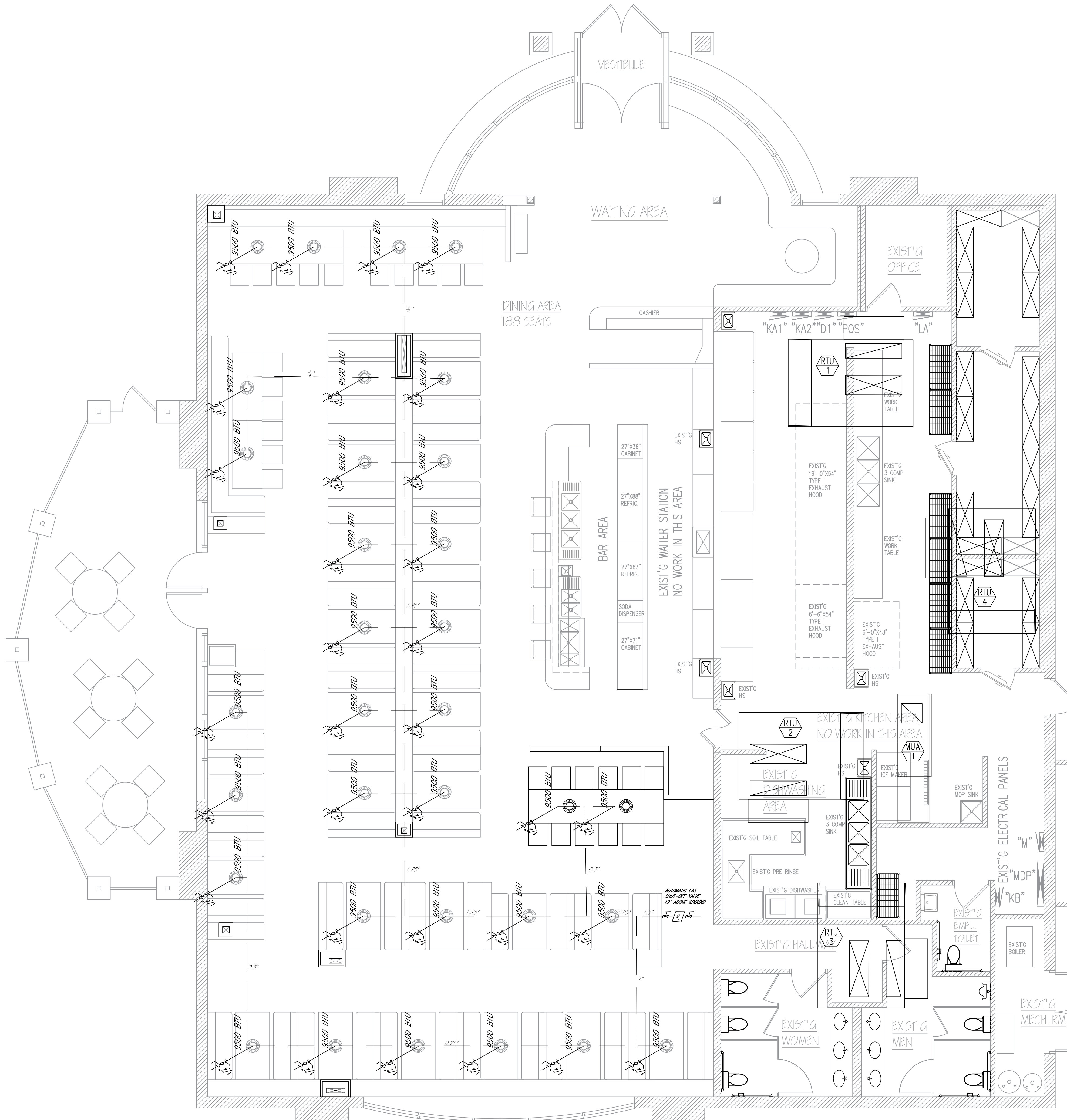
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WATER & WASTE  
RISER DIAGRAM

SHEET NUMBER

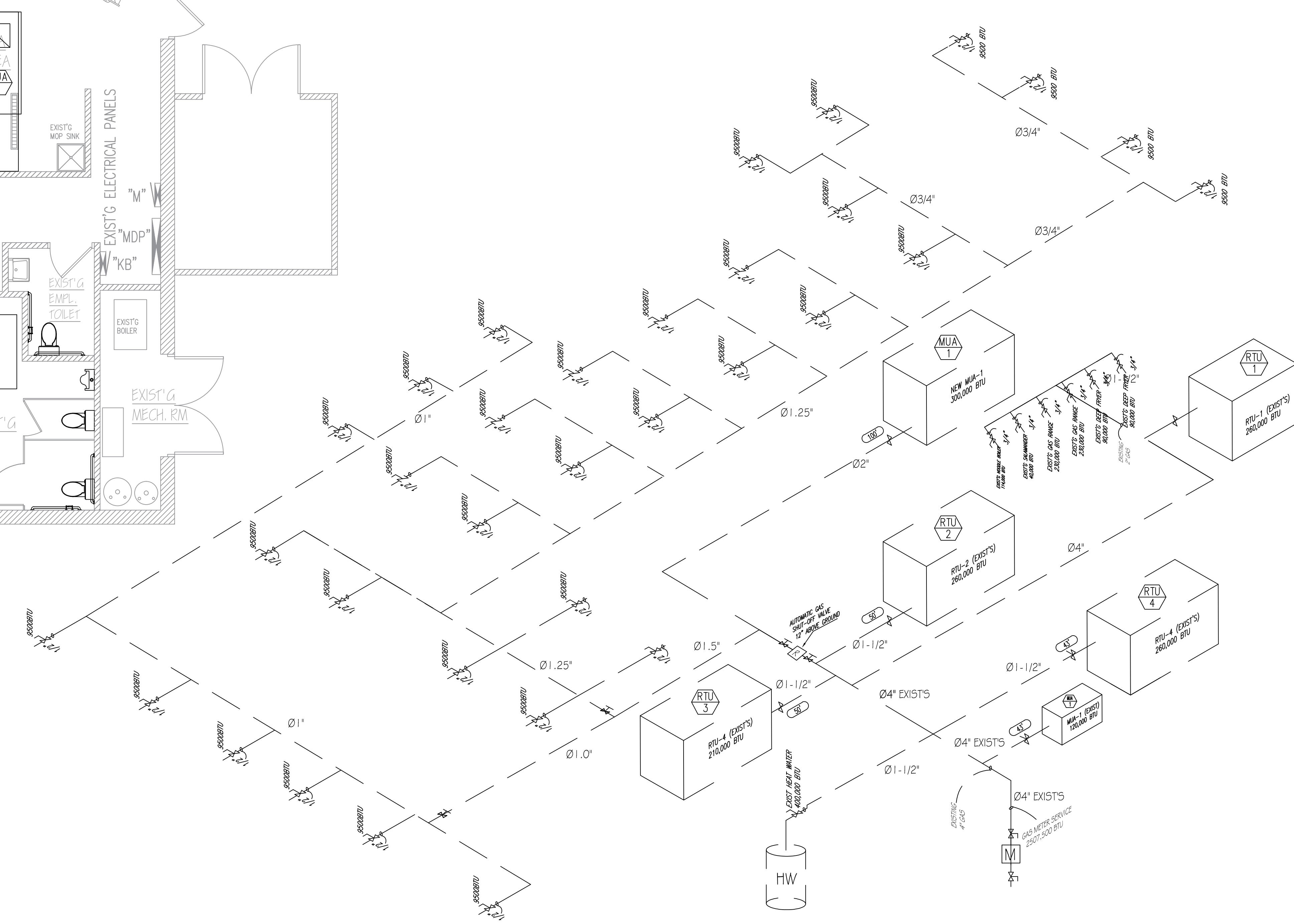
P2



**A DINING TABLE GAS PIPING PLAN**  
 SCALE 3/16" = 1'-0"  NORTH

EQUIPMENT GAS LOAD SUMMARY	
DESCRIPTION	GAS LOAD (BTU)
EXIST'G RTU-1,2,3,4	260,000 x 4 = 1,040,000
EXIST'G MUA-1	120,000
EXIST'S KITCHEN EQUIPMENT	334,000
EXIST'G WATER HEATER	400,000
NEW MUA-1	300,000
ADDING GAS HOT POT	9500 X 33 = 313,500
<b>TOTAL GAS LOAD REQUIRED</b>	<b>2,507,500 BTU</b>

**NOTE: (2018 IFGC SECTION 410.2)**  
 1.A TEE FITTING WITH ONE OPENING CAPPED OR PLUGGED SHALL BE INSTALLED BETWEEN THE MP REGULATOR AND ITS UPSTREAM SHUTOFF VALVE. SUCH TEE FITTING SHALL BE POSITIONED TO ALLOW CONNECTION OF A PRESSURE-MEASURING INSTRUMENT AND TO SERVE AS A SEDIMENT TRAP.  
 2.A TEE FITTING WITH ONE OPENING CAPPED OR PLUGGED SHALL BE INSTALLED NOT LESS THAN 10 PIPE DIAMETERS DOWNSTREAM OF THE MP REGULATOR OUTLET. SUCH TEE FITTING SHALL BE POSITIONED TO ALLOW CONNECTION OF A PRESSURE-MEASURING INSTRUMENT.



**GAS RISER DIAGRAM**  
 SCALE: N.T.S.

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**GAS PIPING PLAN**

SHEET NUMBER  
**G1**