

INTERIOR REMODELING OF THE EXISTING RESTAURANT AT 3050 LINDBERGH BLVD SPRINGFIELD IL 62704

GENERAL PROJECT NOTES

SUMMARY OF WORK

INTERIOR REMODELING OF THE EXISTING 7529SF RESTAURANT. THE EXISTING KITCHEN AREA IS TO REMAIN NO WORK. PROVIDE ALL NECESSARY ARCHITECTURAL, ELECTRICAL, HVAC AND PLUMBING WORK FOR THE EXISTING DINING RM AS PROPOSED.

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 OWNERS 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.

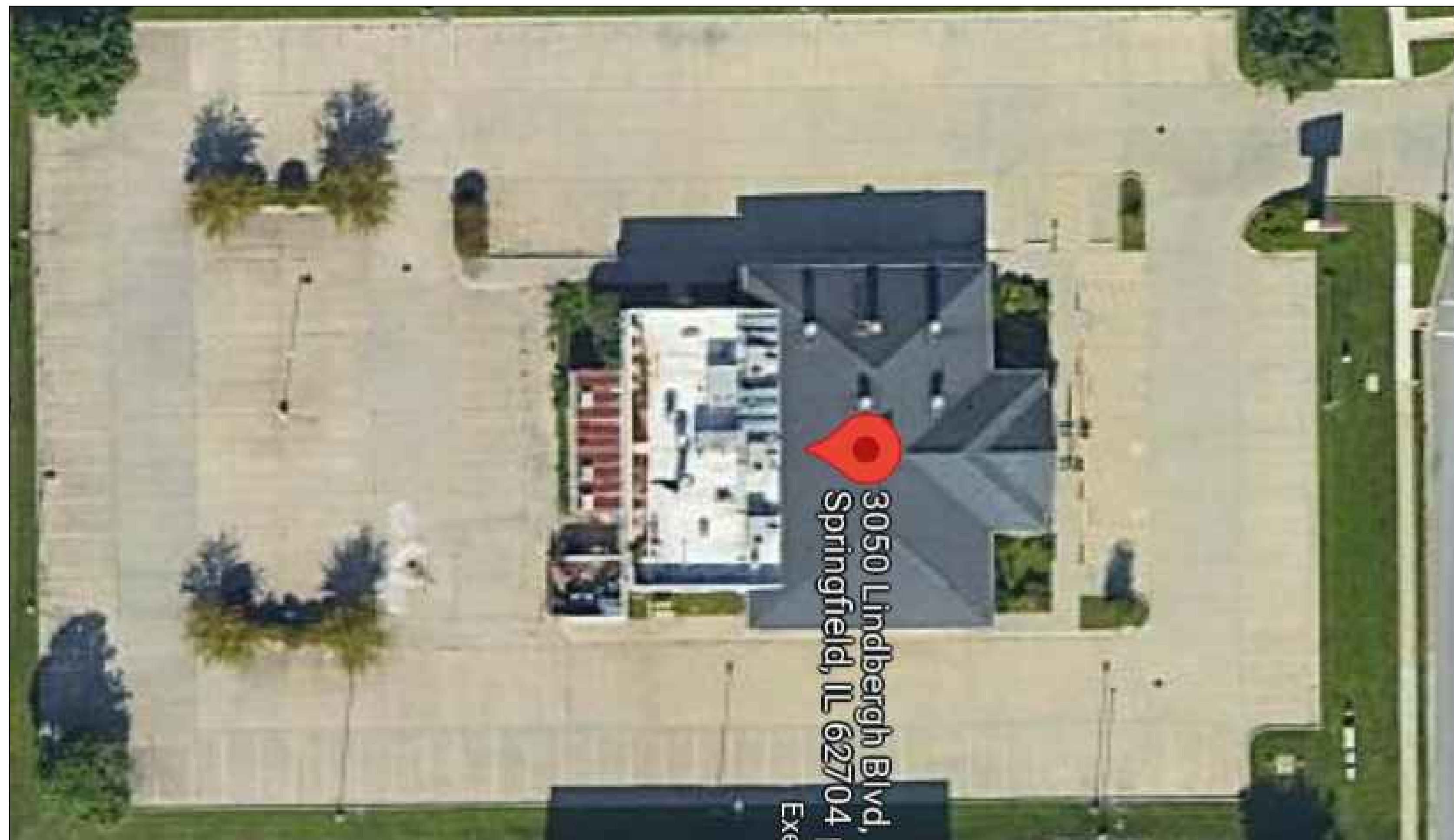
WHEN WALLS ARE TO BE "ALIGNED", THE ALIGNMENT OF SUCH WALLS IS TO THE OUTSIDE FINISHED SURFACE, SUCH AS DRYWALL SURFACE.

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.

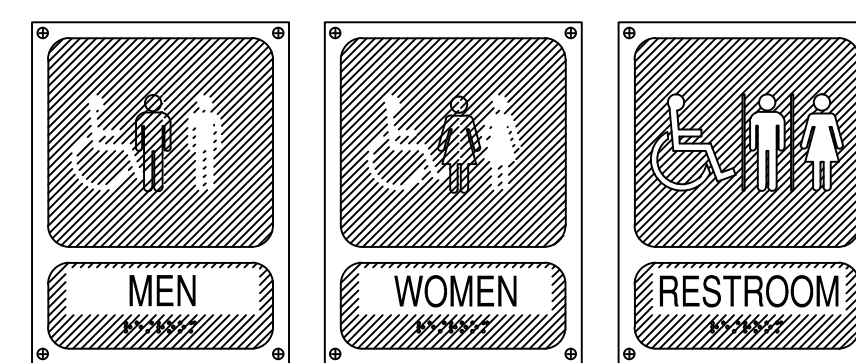
THE ARCHITECT HAS NO CONTRACTUAL DUTY TO CONTROL MEANS AND METHODS OF THE WORK NOR TO PROVIDE JOB SITE SUPERVISION, ENSURE SAFETY OR CONSTRUCTION MANAGEMENT AND DOES NOT VOLUNTARILY ASSUME ANY SUCH RESPONSIBILITIES.



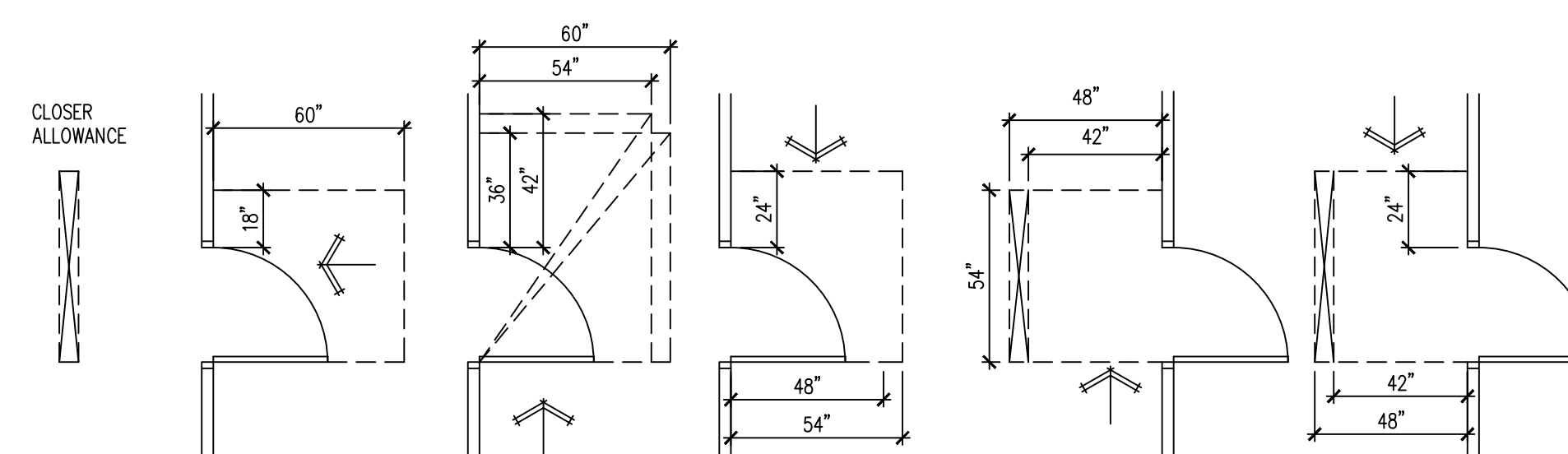
A SITE PLAN
NOT TO SCALE

ACCESSIBILITY REQUIREMENTS

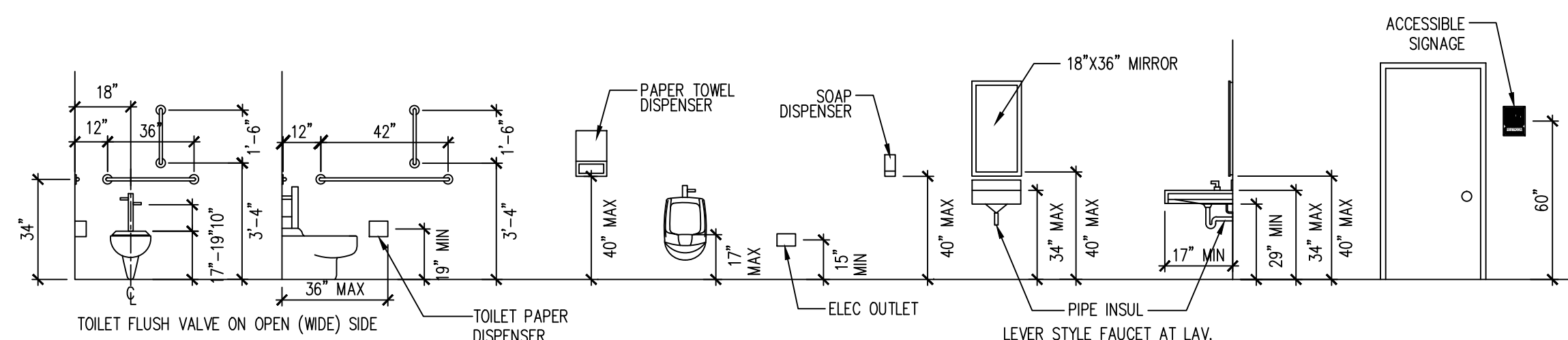
TOILET ROOMS REQUIRED TO BE ACCESSIBLE SHALL CONFORM TO ALL ACCESSIBILITY REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT WHICH INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING:



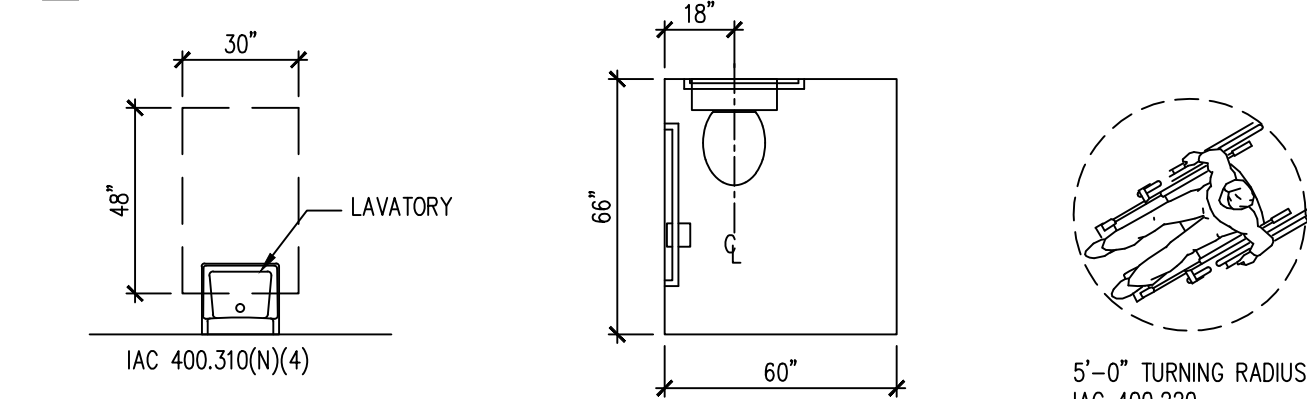
B ACCESSIBLE SIGNAGE
NOT TO SCALE



D DOOR MANEUVERING CLEARANCE
NOT TO SCALE



E ACCESSIBLE MOUNTING HEIGHTS
NOT TO SCALE



C TYPICAL ACCESSIBILITY REQUIREMENTS
NOT TO SCALE

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INDEX OF DRAWINGS

- A0 PROJECT NOTES & SITE PLAN
- A1 FLOOR PLAN & NOTES
- A2 EXIT & OCCUPANCY DIAGRAM
- E1 ELECTRICAL LOAD CALCULATION
- E2 ELECTRICAL PLANS & NOTES
- M1 MECHANICAL PLANS & NOTES
- P1 PLUMBING PLAN & NOTES
- G1 GAS PIPING PLAN & NOTES

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

- 2012 INTERNATIONAL BUILDING CODE
- 2006 INTERNATIONAL FIRE CODE
- 2012 INTERNATIONAL FUEL GAS CODE
- 2012 INTERNATIONAL MECHANICAL CODE
- 2018 INTERNATIONAL ENERGY CONSERVATION CODE
- 2011 NATIONAL ELECTRICAL CODE
- 2014 ILLINOIS STATE PLUMBING CODE
- 2018 ILLINOIS ACCESSIBILITY CODE
- 2000 NFPA 101 LIFE SAFETY CODE

PROJECT DATA	
USE GROUP CLASSIFICATION	A-2
CONSTRUCTION TYPE	IB
TOTAL RESTAURANT FLOOR AREA	7529SF
EXIT ACCESS TRAVEL DISTANCE	75 FT MAXIMUM
AUTOMATIC SPRINKLERS	YES
DINING AREA OCCUPANTS	110 FIXED SEATING OCCUPANTS
KITCHEN AREA OCCUPANTS	2200SF/200 = 110 OCCUPANTS
SLOT FLOOR AREA	5 OCCUPANTS
TOTAL OCCUPANT LOADS	126 OCCUPANTS
MAXIMUM HEIGHT	1 STORY
REQUIRED NUMBER OF EXITS:	3 ACTUAL 5
MINIMUM CORRIDOR WIDTH	48"

We i Tan



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, 2022

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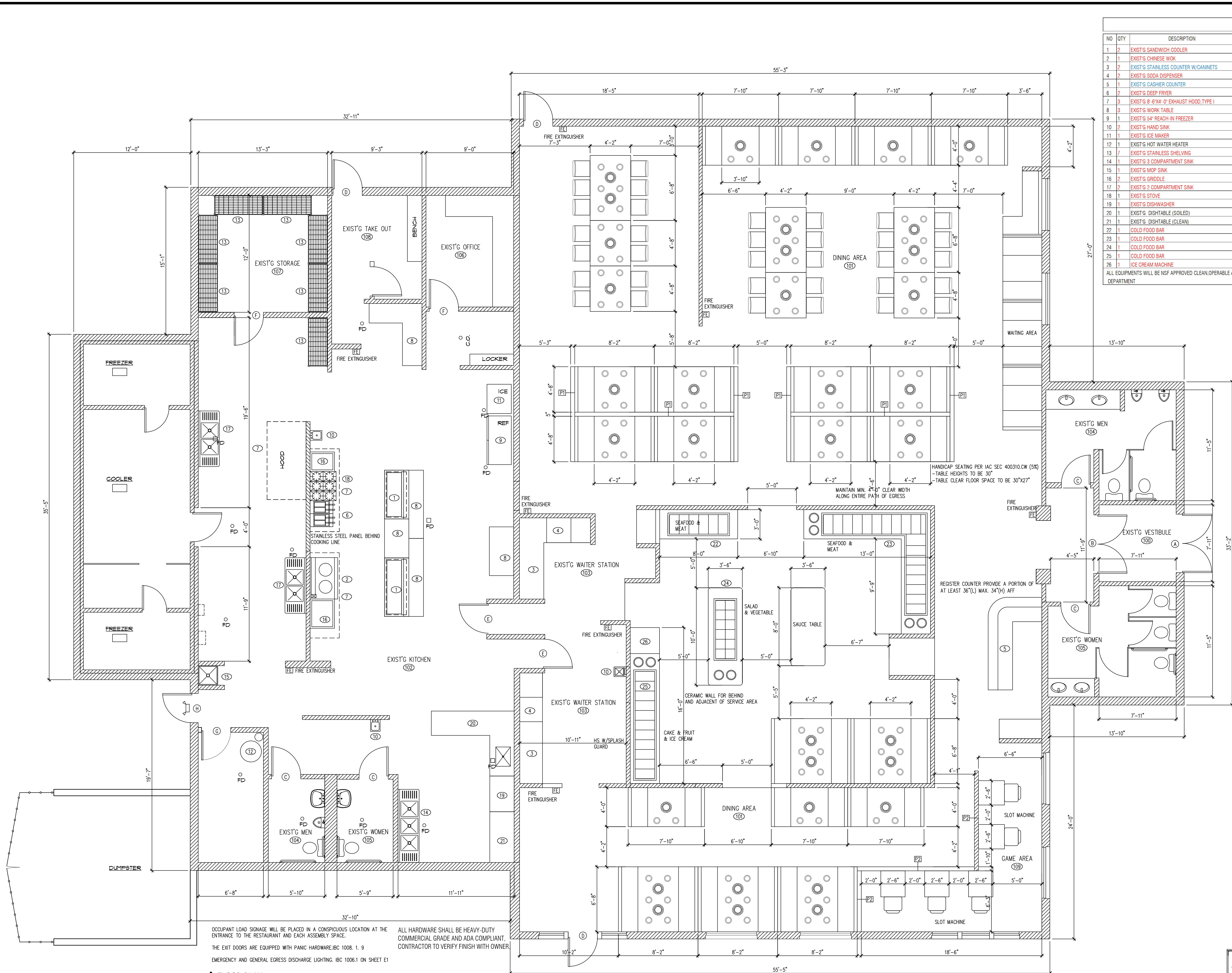
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PROJECT NOTES & SITE PLAN

SHEET NUMBER

A0



EQUIPMENT SCHEDULE						
NO	QTY	DESCRIPTION	GAS	ELECTRIC	PLUMBING	REMARKS
1	2	EXIST'G SANDWICH COOLER	-	120V	4A	NSF
2	1	EXIST'G CHINESE WOK	3/4"	-	-	1/2" CW, 4" INDIRECT DRAIN
3	2	EXIST'G STAINLESS COUNTER W/CANNETS	-	-	-	NSF, 22000 BTU
4	2	EXIST'G SODA DISPENSER	-	120V	-	1/2" CW, 4" INDIRECT DRAIN
5	1	EXIST'G CASHIER COUNTER	-	-	-	NSF
6	2	EXIST'G DEEP FRYER	3/4"	-	-	NSF, 9000 BTU
7	3	EXIST'G 8'-6"x4'-0" EXHAUST HOOD, TYPE 1	-	-	-	U.L. WANSUL FIRE SUPPRESSION SYSTEM
8	3	EXIST'G WORK TABLE	-	-	-	NSF, W/ 6" STAINLESS STEEL LEGS NSF APPROVED
9	1	EXIST'G 54" REACH-IN FREEZER	-	120V	-	NSF
10	2	EXIST'G HAND SINK	-	-	1/2" CW, 1/2" HW, 2" DRAIN	NSF, WALL MOUNTED - SEALED
11	1	EXIST'G ICE MAKER	-	240V	-	1/2" CW, 4" INDIRECT DRAIN
12	1	EXIST'G HOT WATER HEATER	3/4"	120V	-	3/4" CW, 3/4" HW
13	7	EXIST'G STAINLESS SHELVEING	-	-	-	NSF APPROVED STAINLESS STEEL SHELVEING
14	1	EXIST'G 3 COMPARTMENT SINK	-	-	1/2" CW, 1/2" HW, 4" INDIRECT DRAIN	NSF, W/ ECOLAB PATHWAY TO PREVENT BACKFLOW
15	1	EXIST'G MOP SINK	-	-	1/2" CW, 1/2" HW, 3" DRAIN	NSF, W/ MOP HOOKS, SEAL EDGES
16	2	EXIST'G GRIDDLE	3/4"	-	-	NSF, 15000 BTU
17	2	EXIST'G 2 COMPARTMENT SINK	-	-	1/2" CW, 1/2" HW, 4" INDIRECT DRAIN	NSF, W/ ECOLAB PATHWAY TO PREVENT BACKFLOW
18	1	EXIST'G STOVE	3/4"	-	-	NSF, 35000 BTU
19	1	EXIST'G DISHWASHER	-	240V	16A	1/2" HW, 4" INDIRECT DRAIN
20	1	EXIST'G DISHTABLE (SOILED)	-	-	1/2" HW, 4" INDIRECT DRAIN	NSF, W/ 6" STAINLESS STEEL LEGS NSF APPROVED
21	1	EXIST'G DISHTABLE (CLEAN)	-	-	-	NSF, W/ 6" STAINLESS STEEL LEGS NSF APPROVED
22	1	COLD FOOD BAR	-	120V	5A	NSF
23	1	COLD FOOD BAR	-	120V	5A	NSF
24	1	COLD FOOD BAR	-	120V	5A	NSF
25	1	COLD FOOD BAR	-	120V	5A	NSF
26	1	ICE CREAM MACHINE	-	240V	5A	NSF

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

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 1008.1.3
 EMERGENCY AND GENERAL EGRESS DISCHARGE LIGHTING, IBC 1006.11 ON SHEET E1

ALL HARDWARE SHALL BE HEAVY-DUTY COMMERCIAL GRADE AND ADA COMPLIANT. CONTRACTOR TO VERIFY FINISH WITH OWNER.

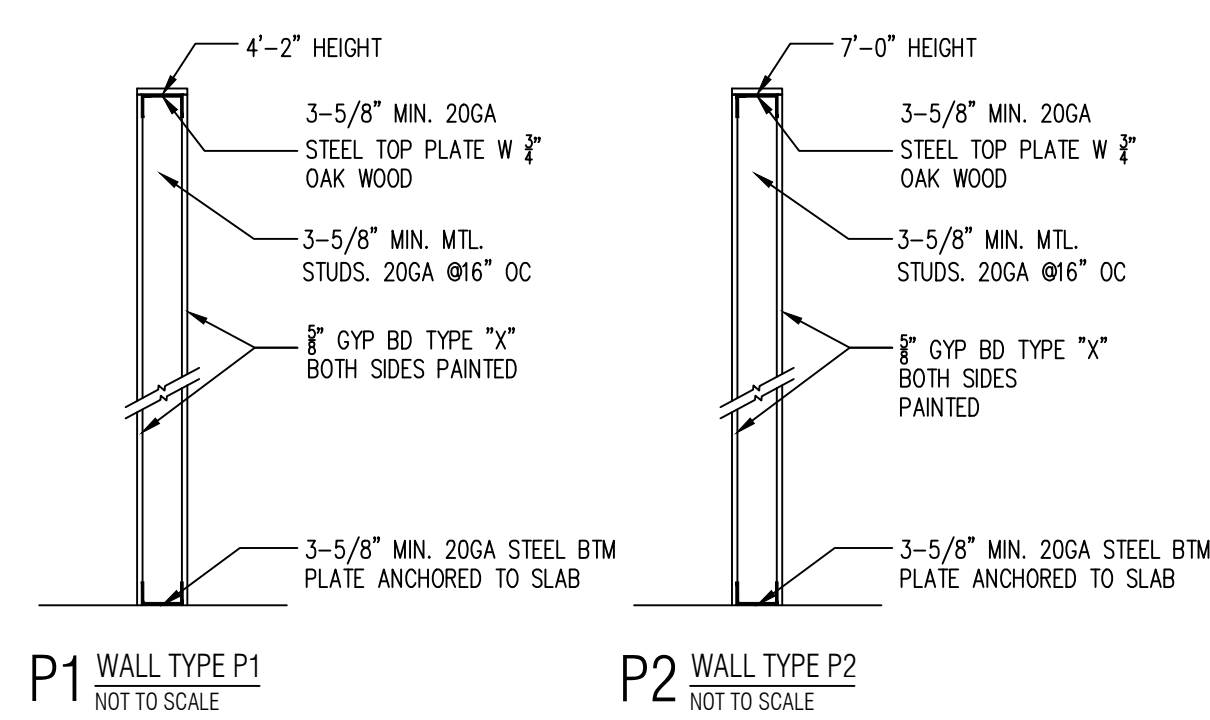
FLOOR PLAN
 SCALE 1/4"=1'-0"

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

DOOR SCHEDULE							
TAG	DESCRIPTION	FRAME CONSTRUCTION	NOMINAL SIZE W x H	DOOR FINISH	FRAME FINISH	HARDWARE SET	COMMENTS
A	STOREFRONT GLASS DOOR	ALUMINUM	6'-0" x 7'-0"	TEMPERED GLASS	ALUMINUM	2	EXIST'G FRONT EXIT DOOR
B	TEMPERED GLASS DOOR	ALUMINUM	6'-0" x 7'-0"	TEMPERED GLASS	ALUMINUM	2	EXIST'G ENTRY DOOR
C	WOOD DOOR	HOLLOW METAL	3'-0" x 7'-0"	PAINT	PAINT	1	EXIST'G
D	TEMPERED GLASS DOOR	ALUMINUM	3'-0" x 7'-0"	TEMPERED GLASS	ALUMINUM	2	EXIST'G EXIT DOOR
E	ALUMINUM DOOR	ALUMINUM	3'-0" x 7'-0"	PAINT	PAINT	2	DOUBLE ACTION EXIST'G
F	WOOD DOOR	HOLLOW METAL	3'-0" x 7'-0"	PAINT	PAINT	3	EXIST'G
G	HOLLOW METAL DOOR	HOLLOW METAL	3'-0" x 7'-0"	PAINT	PAINT	3	EXIST'G
H	HOLLOW METAL DOOR	HOLLOW METAL	3'-0" x 7'-0"	PAINT	PAINT	2	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

ROOM FINISH SCHEDULE					
NO	ROOM	WALLS	BASE	FLOOR	CEILING
100	EXIST'G VESTIBULE	GYP BD PAINTED	OT COVE BASE	FLOOR TILE	EXIST'G 2'X2' LAY IN CEILING
101	DINING AREA	GYP BD PAINTED	OT COVE BASE	FLOOR TILE	EXIST'G 2'X2' LAY IN CEILING
102	EXIST'G KITCHEN	STAINLESS STEEL	OT COVE BASE	QUARRY TILE	2'X4' VINYL TILE CEILING
103	EXIST'G WAITER STATION	FRP	OT COVE BASE	QUARRY TILE	EXIST'G 2'X2' VINYL TILE CEILING
104	EXIST'G MEN	CERAMIC TILE	OT COVE BASE	FLOOR TILE	EXIST'G CEILING
105	EXIST'G WOMEN	CERAMIC TILE	OT COVE BASE	FLOOR TILE	EXIST'G CEILING
106	EXIST'G OFFICE	GYP BD PAINTED	OT COVE BASE	FLOOR TILE	EXIST'G 2'X2' LAY IN CEILING
107	EXIST'G STORAGE	FRP	OT COVE BASE	QUARRY TILE	EXIST'G 2'X4' VINYL TILE CEILING
108	EXIST'G TAKE OUT	GYP BD PAINTED	OT COVE BASE	FLOOR TILE	EXIST'G 2'X2' LAY IN CEILING
109	GAME AREA	GYP BD PAINTED	OT COVE BASE	FLOOR TILE	EXIST'G 2'X2' LAY IN CEILING

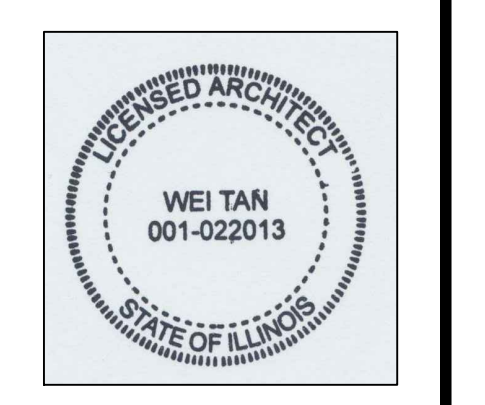


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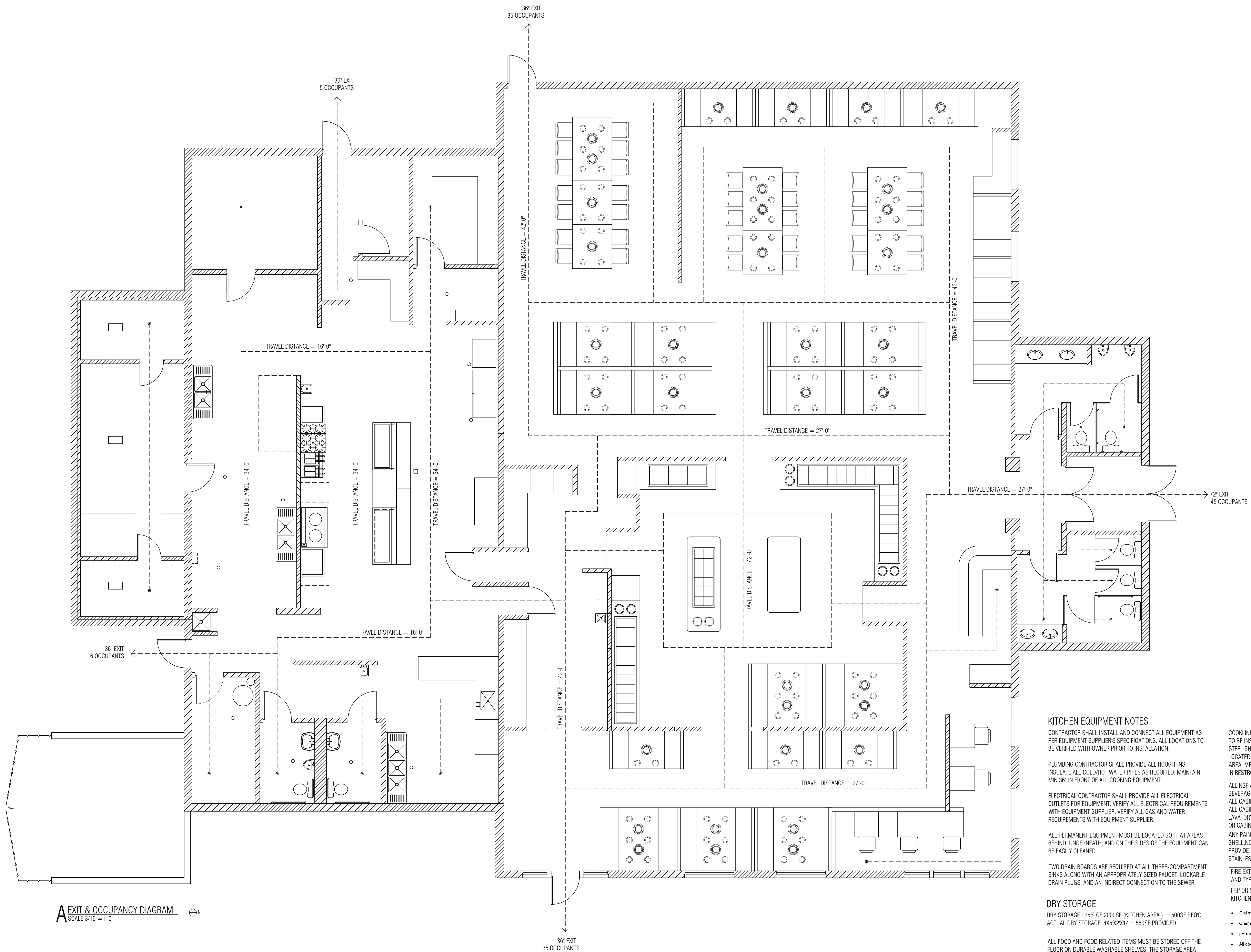
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FLOOR PLAN
 & NOTES

SHEET NUMBER
A1



A EXIT & OCCUPANCY DIAGRAM
SCALE 3/16"=1'-0"

KITCHEN EQUIPMENT NOTES

CONTRACTOR SHALL INSTALL AND CONNECT ALL EQUIPMENT AS PER EQUIPMENT SUPPLIER'S 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 2000SF (KITCHEN AREA) = 500SF REDD ACTUAL DRY STORAGE 4X5'X14"= 560SF 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.

COOKLINE EQUIPMENT AND REACH-IN REFRIGERATION AND FREEZER UNITS TO BE INSTALLED ON CASTERS. PROVIDE THE FOLLOWING: NSF STAINLESS STEEL SHELF OVER 3-COMPARTMENT SINK. 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 RESTROOM.

ALL NSF APPROVED HAND SINKS TO BE WITH BLADE HANDLED FAUCETS. BEVERAGE STATION & 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 SERVICE AREA. STAINLESS STEEL WALL FINISH FOR BEHIND AND ADJACENT TO COOK LINE.

FRP OR STAINLESS STEEL PANEL FOR KITCHEN WALL. KITCHEN CEILING FINISH TO BE PVC VINYL. WASHABLE TILES.

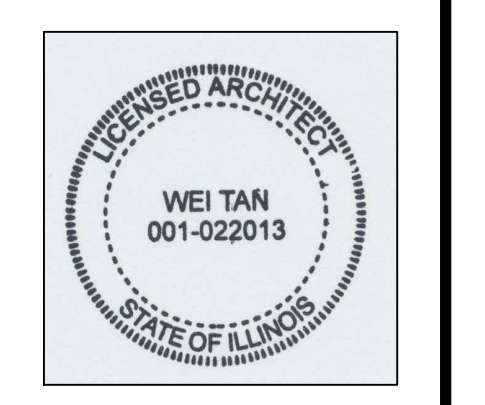
- Dial stem thermometers (ranging from 0° to 220°F) are required in all preparation areas.
 - Chemical test kits (specific to the sanitizer) are required for the appropriate sanitizer.
 - pH meter and log for acidifying rice.
 - All cooling/freezing units must have accurate thermometers.
 - Covered waste 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.
- Doors leading to the outside and restroom doors are required to be self-closing and light-fitting. Please confirm that the doors leading to the outside are equipped with a self-closer and weather strips to eliminate any air gaps.

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EXIT & OCCUPANCY DIAGRAM

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A2

General Notes

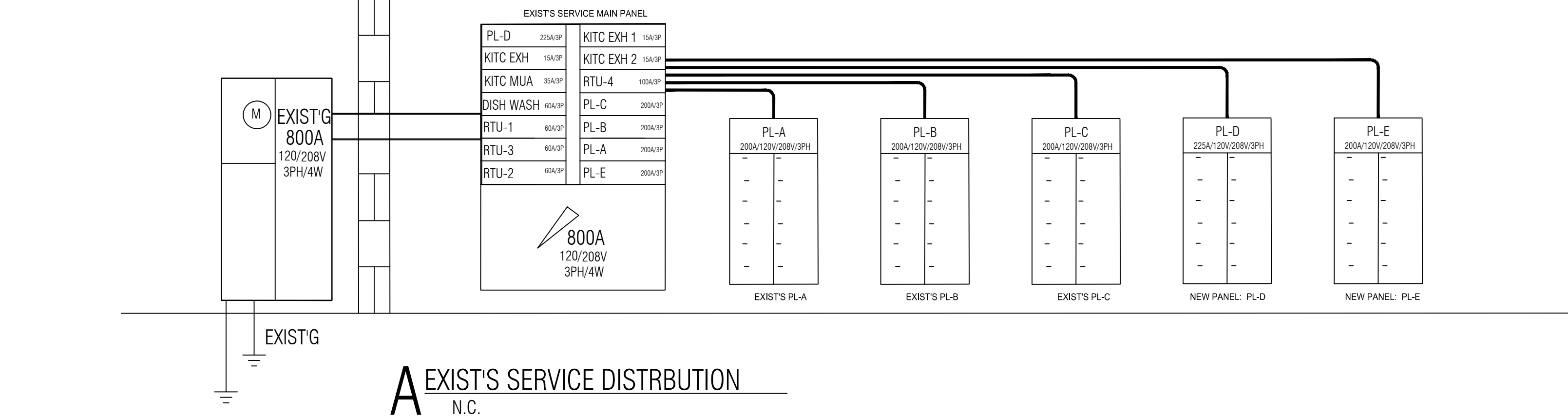
- INSTALLATION HEIGHT ABOVE FLOOR:
LIGHT SWITCHES 36"
THERMOSTATS 48"
HUMIDISTAT 48"
RECEPTACLES 12"
- Switches and outlets shall be installed to comply with accessible reach range of 12"-48" height above floor.
- Install kitchen equipment to dedicated circuits per manufacturer list. All switches and outlets 48" installation height (above counter and work tables)
- Outdoor lights shall be on photo cell or timer Bathroom and small rooms < 300 sf shall be equipped with occupancy sensor. Outdoor outlets shall be water proof
- Lights within 10' of windows shall be able to be switched off independantly
- OUTLETS IN TOILET ROOMS, OUTDOOR LOCATION AND WITHIN 3 FEET OF KITCHEN OR BATH SINKS SHALL BE GFI TYPE OUTLETS
- PROVIDE DISCONNECT SWITCH FOR ALL MECHANICAL EQUIPMENT, PROMINENTLY MARKED AND READILY ACCESSIBLE

EMERGENCY LIGHTING NOTE:

- EMERGENCY LIGHTING SHALL BE INSTALLED SO THAT THE FAILURE OF ANY INDIVIDUAL LIGHTING ELEMENT WILL NOT RESULT IN TOTAL DARKNESS OF ANY SPACE REQUIRING EMERGENCY ILLUMINATION.
- UNIT BATTERY SHALL BE PERMANENTLY INSTALLED WITH METAL RACEWAY; THE BRANCH CIRCUIT FEEDING THE UNIT BATTERY SHALL BE THE SAME BRANCH CIRCUIT SERVING THE NORMAL ILLUMINATION IN THE AREA & CONNECTED AHEAD OF ANY LOCAL SWITCHES.
- THE BRANCH CIRCUIT DEVICE SHALL BE TYPE S PLUG FUSE OR BE PROTECTED WITH A LOCKING DEVICE TO PREVENT INADVERTENT OPENING OF THE CIRCUIT
- THE PANEL DIRECTORY SHALL BE PROMINENTLY MARKED TO IDENTIFY THE CIRCUIT OF THE UNIT BATTERY
- NOT MORE THAN 3 LAMPS ALLOWED FOR EACH UNIT BATTERY; EACH LAMP MIN 300 LUMEN OUTPUT TO SERVE AREA NOT MORE THAN 2300 SQ FT
- UNIT BATTERIES SHALL BE MAINTAINED, INSPECTED AND TESTED BY PROFESSIONAL PERSONNEL
- EXIT LIGHTING AND EMERGENCY LIGHTING SHALL BE ON SEPARATE CIRCUITS
- BATTERY CAPACITY SHALL BE ABLE TO MAINTAIN 87.5% OF NOMINAL BATTERY VOLTAGE FOR TOTAL LAMP LOAD FOR 1 1/2 HOURS

VOLTAGE DROP NOTES
1. VOLTAGE DROP FEEDER VOLTAGE DROP: 1.7%
2. PANEL 10-30-PL-C: PL-C: 0.00% BALANCE ELECTRICAL ROOM.
3. PANEL 10-30-PL-C: PL-C: 0.00% BY BALANCE
VIB=(1.732*IMP)*L/DM=...3PH VIB=(2*IMP)*L/DM=...1PH
N=12.9 COPPER

NOTE: THE THREE METER BOXES ARE ALL LOCATED BACK OF THE SAME BUILDING



LEGEND:

- RETURN AIR
- ⊗ DIFFUSER
- LIGHT FIXTURE
- ▭ RECESSED 2'X4' LIGHT FIXTURE
- ⊕ EMERGENCY LIGHTING
- ⊗ EXIT SIGN

Service Load Calculation Commercial

Address: 3050 Lindbergh Blvd Springfield Illinois 62704
Outside Building Dimensions: Length 83' Width 81' Floors 1
Rough Total Area: 6723'

Existing Electrical Service: 800A Phase 3 Wire 4 Volt 120/208 Amperes/s 800

Service Conductors 14-28-1480 Size Exist Type Exist (Al.,Cu),Conduit Exist,IMC,Rigid

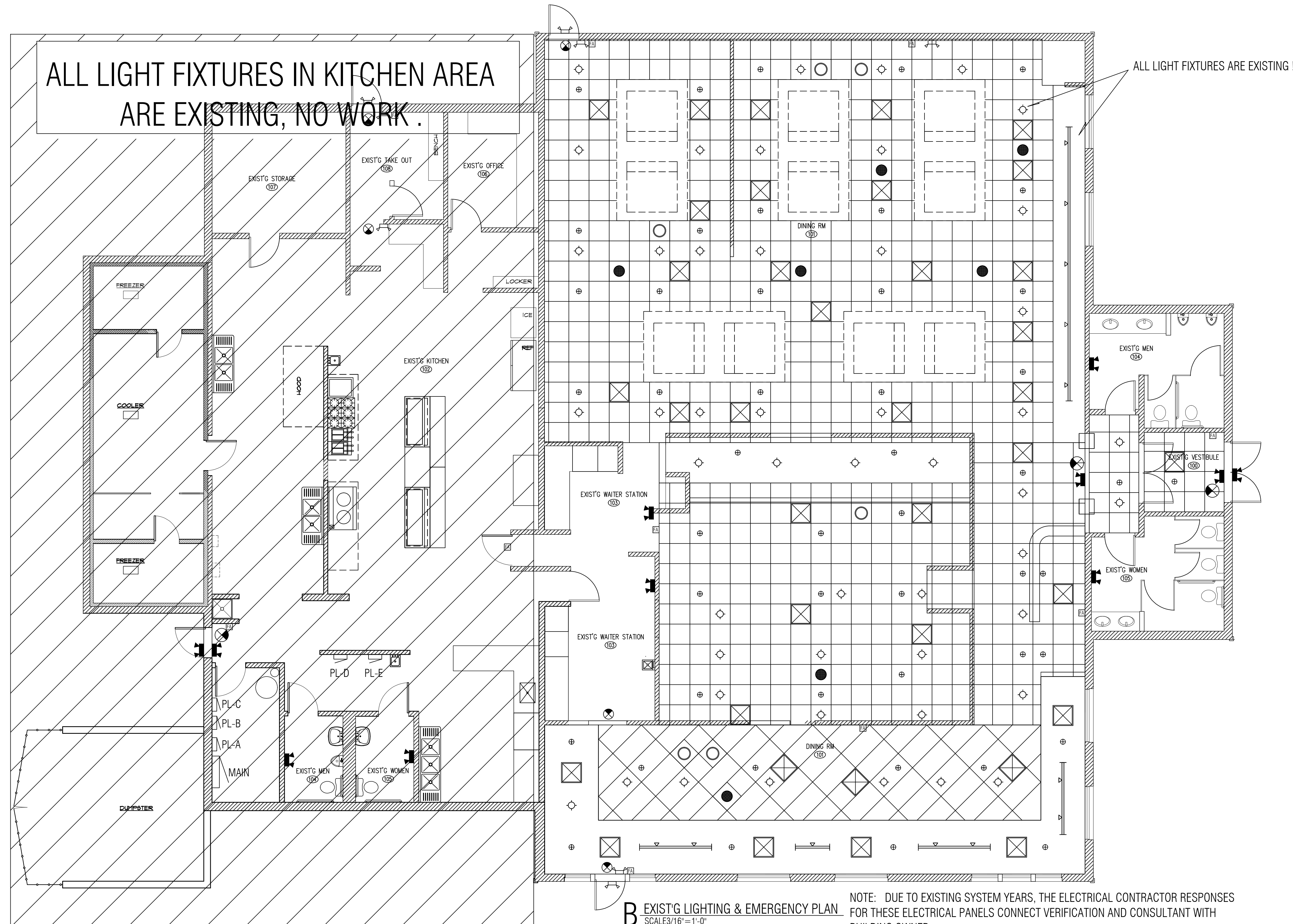
GENERAL LIGHTING LOAD:

Square foot area per floor:	6723
Total square foot area :	6723
Times(1.00 Watts)per square foot	6723
Other loads(receptacles)	
(See section 14-16-180(b)) Times(180 Watts)	

ADD

(1) RTU-1;-2;-3;-4;-5:	113750
(2) KITCHEN AREA EXHAUST FANS, KEF-1;2;3:	4368
(3) KITCHEN AREA MAKE -UP AIR:	5176
(4) DISH WASHER EXHAUST FAN 70%:	1456
(5) ELECTRICAL PANEL PL-A:208V/3PH/200A 70%:	25444
(6) ELECTRICAL PANEL PL-B: 208V/3PH/200A 70%:	27081
(3) ELECTRICAL PANEL PL-C :208V/3PH/200A 70%:	26545
(4) ELECTRICAL PANEL PL-D :208V/3PH/225A 70%:	46139
(5) ELECTRICAL PANEL PL-E: 208V/3PH/200A 70%:	28318
TOTAL:	285 KW

TOTAL LOAD: I = W/V=791 AMP
EXISTING SERVICE SIZE IS 800 AMP



ALL LIGHTING FIXTURES AND EXIT/EMERGENCY FIXTURE ARE EXISTING, NO WORK .

B EXIST'G LIGHTING & EMERGENCY PLAN SCALE 3/16"=1'-0"

NOTE: DUE TO EXISTING SYSTEM YEARS, THE ELECTRICAL CONTRACTOR RESPONSES FOR THESE ELECTRICAL PANELS CONNECT VERIFICATION AND CONSULTANT WITH BUILDING OWNER.

WEI TAN
2425 S WENTWORTH AVE.
CHICAGO IL 60616
PHONE: (312) 912-5798
EMAIL: twarchitect98@yahoo.com
LICENSE NO: 001-022013
EXPIRES: 11/30/2022

MEP ENGINEER
236 W ALEXANDER STREET
CHICAGO IL 60616
PHONE: (312)720-8800
BILLY WANG@HOTMAIL.COM
LICENSE NO: 062.068227
EXPIRES: 11/30/2023

RESTAURANT
INTERIOR REMODELING
3050 LINDBERGH BLVD
SPRINGFIELD IL 62704

ISSUES	DATE
ISSUED FOR PERMIT	05/28/2022



ELECTRICAL LIGHTING PLAN

SHEET NUMBER

E1

EXIST'S PANEL: PL-A

EXIST'G ELECTRICAL PANEL *PL-A* 200A/3PH												
SERVICES	A	B	C	AMPS	CK	CK	AMPS	A	B	C	SERVICES	
LIGHTING-DOWN	1200	---	---	20	1	2	20	1200	---	---	LIGHTING KITCHEN	
LIGHTING-DOWN	---	1400	---	20	3	4	20	---	1400	---	LIGHTING KITCHEN	
LIGHTING-DOWN	---	---	1200	20	5	6	20	---	---	1200	LIGHTING OFFICE	
LIGHTING-DOWN	1200	---	---	20	7	8	20	---	---	---	LIGHTING OFFICE	
LIGHTING-DOWN	---	1400	---	20	9	10	20	---	---	---	EXT-EMERGENCY LIGHTING	
LIGHTING TRACK	---	---	1200	20	11	12	20	---	---	---	BUILDING SIGN LIGHTING	
LIGHTING TRACK	1200	---	---	20	13	14	20	---	---	---	BUILDING SIGN LIGHTING	
LIGHTING-DOWN	---	1400	---	20	15	16	20	---	---	---	BUILDING SIGN LIGHTING	
LIGHTING-PENDANT	---	---	1200	20	17	18	20	---	---	---	DRINK FAN	
LIGHTING-PENDANT	1200	---	---	20	19	20	20	---	---	---	EXT-EMERGENCY LIGHT	
LIGHTING-BACKBATH	---	1400	---	20	21	22	20	---	---	---	TELEPHONE ROOM LIGHTING	
LIGHTING-BACK BAR	---	---	1200	20	23	24	20	---	---	---	MUA-2	
LIGHTING-BACK TRACK	1200	---	---	20	25	26	20	---	---	---	HOOD CONTROL	
LIGHTING VESTIBULE	---	1400	---	20	27	28	20	---	---	---	WALK IN COOLER CONTROL UNIT	
LIGHTING SCOTCH	---	---	1200	20	29	30	20	---	---	---	ICE MAKER	
LIGHTING PUBLIC	1200	---	---	20	31	32	20	---	---	---		
SERVER ALLEY	---	1400	---	20	33	34	20	---	---	---		
	---	---	1200	20	35	36	20	---	---	---		
	---	---	---	20	37	38	20	---	---	---		
SITE LIGHTING	---	---	---	20	39	40	20	---	---	---		
	---	---	---	20	41	42	20	---	---	---		
TOTAL PANEL LOAD	7200	8400	7200					6000	7000	6000		
	36348	VA	101	AMPS	3	PHASE						

EXIST'S PANEL: PL-B

EXIST'G ELECTRICAL PANEL *PL-B* 200A/3PH												
SERVICES	C	B	A	AMPS	CK	CK	AMPS	A	B	C	SERVICES	
DEEP FRYERS	3468	---	---	20	1	2	20	540	---	---	CONNECTION OVEN	
	---	3468	---	20	3	4	20	---	860	---	CONNECTION OVEN	
RANGE TOP/OVEN	---	---	3468	20	5	6	20	---	---	540	CONNECTION OVEN	
	3900	---	---	20	7	8	20	850	---	---		
	---	1620	---	20	9	10	20	---	530	---	HEATER	
ICE MACHINE	---	---	1620	20	11	12	20	---	---	1200		
	1620	---	---	20	13	14	20	1200	---	---	MEAT Slicer	
MICROWAVE	---	2080	---	20	15	16	20	---	---	1200	REACH-IN REFRIGERATOR	
	---	---	2080	20	17	18	20	---	---	---	COFFEE BREWER	
	2080	---	---	20	19	20	20	---	---	1200	COFFEE BREWER	
REFRIGERATOR	---	---	2080	20	21	22	20	---	---	---	1200	
	2080	---	---	20	23	24	20	---	---	850	ICE CREAM CABINET	
MICROWAVE	2080	---	---	20	25	26	20	850	---	---	ROLL WARMING DRAWER	
	---	2080	---	20	27	28	20	---	850	---	FOOD WARMER	
CARVING SATATION	---	---	2080	20	29	30	20	---	---	---	1200	
SAWING/REFRIGERATOR	---	---	---	20	31	32	20	---	---	---	1200	
	1960	---	---	30	33	34	20	---	---	---	REACH-IN FREEZER	
WALK-IN COOLER	---	1960	---	30	35	36	20	---	---	---	ICE TEA BREWER	
	---	---	1960	30	37	38	20	---	---	---	1200	
WALK-IN FREEZER	2510	---	---	30	39	40	20	---	---	---	RECEPT KITCHEN (KIP)	
	---	---	2510	30	41	42	20	---	---	---	1200	
TOTAL PANEL LOAD	11616	13796	13796					7040	7000	7040		
	61146	VA	170	AMPS	3	PHASE						

EXIST'S PANEL: PL-C

EXIST'G ELECTRICAL PANEL *PL-C* 200A/3PH												
SERVICES	C	B	A	AMPS	CK	CK	AMPS	A	B	C	SERVICES	
SIGN LIGHT	550	---	---	20	1	2	20	540	---	---	FIRE ALARM SYSTEM	
	---	550	---	20	3	4	20	---	850	---	FIRE CONTROL PANEL	
	---	---	550	20	5	6	20	---	---	540		
	550	---	---	20	7	8	20	850	---	---		
	---	550	---	20	9	10	20	---	---	530		
	---	---	550	20	11	12	20	---	---	---	EXHAUST FAN 1, EF-1	
	1960	---	---	30	13	14	20	---	---	---	EXHAUST FAN 2, EF-2	
MUA-1	---	1960	---	30	15	16	20	---	---	---	EXHAUST FAN 3, EF-3	
	---	---	1960	30	17	18	20	---	---	---	EXHAUST FAN 4, EF-4	
MUA-2	1960	---	---	30	19	20	20	---	---	---	EXHAUST FAN 5, EF-5	
	---	1960	---	30	21	22	20	---	---	---	DINING AREA OUTLET 1	
	---	---	1960	30	23	24	20	---	---	---	DINING AREA OUTLET 2	
MUA-3	1960	---	---	30	25	26	20	---	---	---	KITCHEN AREA OUTLET 1	
	---	1960	---	30	27	28	20	---	---	---	KITCHEN AREA OUTLET 2	
	---	---	1960	30	29	30	20	---	---	---	KITCHEN AREA OUTLET 3	
MUA-4	1960	---	---	30	31	32	20	---	---	---	KITCHEN AREA OUTLET 4	
	---	1960	---	30	33	34	20	---	---	---		
	---	---	1960	30	35	36	20	---	---	---		
MUA-5	2510	---	---	30	37	38	20	---	---	---		
	---	2510	---	30	39	40	20	---	---	---		
	---	---	2510	30	41	42	20	---	---	---		
TOTAL PANEL LOAD	44183	11450	11450					6190	4980	5340		
		123	AMPS	3	PHASE							

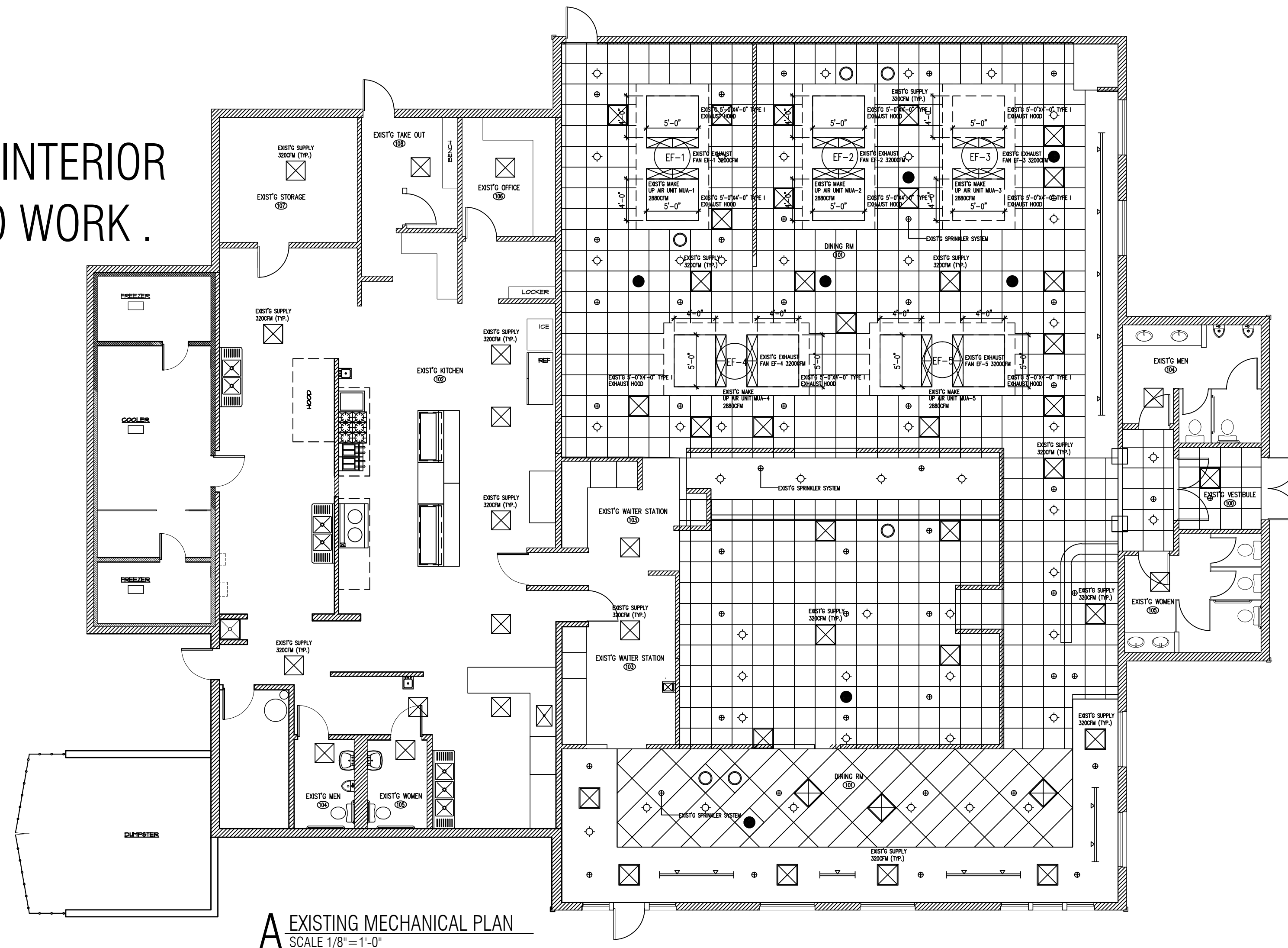
NEW PANEL: PL-D

ELECTRICAL PANEL *PL-D* 225AMP /3PH															
TABL #	SERVICES	WIRE	C	B	A	AMPS	CK	CK	AMPS	A	B	C	WIRE	SERVICES	TABL #
T1a	BIG POT(1)+POT(4)	#12	---	---	2300	30	1	2	30	---	---	2300	#10	BIG POT(1)+POT(4)	T8a
T1b	BIG POT(1)+POT(2)	#12	1400	---	---	20	3	4	20	1400	---	---	#12	BIG POT(1)+POT(2)	T8b
T2a	BIG POT(1)+POT(4)	#12	---	---	2300	30	5	6	20	---	---	2300	#10	BIG POT(1)+POT(4)	T8a
T2b	BIG POT(1)+POT(2)	#12	2300	---	---	30	7	8	20	---	---	---	#12	BIG POT(1)+POT(2)	T8b
T3a	BIG POT(1)+POT(4)	#12	---	---	1400	20	9	10	30	---	---	---	#10	BIG POT(1)+POT(4)	T8a
T3b	BIG POT(1)+POT(2)	#12	1400	---	---	20	11	12	30	---	---	---	#12	BIG POT(1)+POT(2)	T8b
T4	BIG POT(1)+POT(2)	#12	---	---	1400	20	13	14	20	---	---	---	#12	BIG POT(1)+POT(2)	T8b
T5	BIG POT(1)+POT(2)	#12	1400	---	---	20	15	16	20	---	---	---	#12	BIG POT(1)+POT(2)	T8b
T6	BIG POT(1)+POT(2)	#12	---	---	1400	20	17	18	30	---	---	---	#10	BIG POT(1)+POT(4)	T8a
T7	BIG POT(1)+POT(2)	#12	1400	---	---	20	19	20	30	---	---	---	#12	BIG POT(1)+POT(2)	T8b
T8	BIG POT(1)+POT(2)	#12	---	---	1400	20	21	22	20	---	---	---	#10	BIG POT(1)+POT(4)	T8a
T9	BIG POT(1)+POT(2)	#12	1400	---	---	20	23	24	20	---	---	---	#12	BIG POT(1)+POT(2)	T8b
T10	BIG POT(1)+POT(2)	#12	---	---	1400	20	25	26	30	---	---	---	#10	BIG POT(1)+POT(4)	T8a
T11	BIG POT(1)+POT(2)	#12	1400	---	---	20	27	28	30	---	---	---	#12	BIG POT(1)+POT(2)	T8b
T12	BIG POT(1)+POT(2)	#12	---	---	1400	20	29	30	20	---	---	---	#10	BIG POT(1)+POT(4)	T8a
T13	BIG POT(1)+POT(2)	#12	1400	---	---	20	31	32	20	---	---	---	#12	BIG POT(1)+POT(2)	T8b
T14	BIG POT(1)+POT(2)	#12	---	---	1400	20	33	34	30	---	---	---	#10	BIG POT(1)+POT(4)	T8a
T15	BIG POT(1)+POT(2)	#12	1400	---	---	20	35	36	20	---	---	---	#12	BIG POT(1)+POT(2)	T8b
T16	BIG POT(1)+POT(2)	#12	---	---	1400	20	37	38	20	---	---	---	#10	BIG POT(1)+POT(4)	T8a
T17	BIG POT(1)+POT(2)	#12	1400	---	---	20	39	40	20	---	---	---	#12	BIG POT(1)+POT(2)	T8b
T18	BIG POT(1)+POT(2)	#12	---	---	1400	20	41	42	20	---	---	---	#10	BIG POT(1)+POT(4)	T8a
TOTAL PANEL LOAD			10200	11600	11600					12800	15200	14000			
			65913	183.0	AMPS	3	PHASE								

NEW PANEL: PL-E

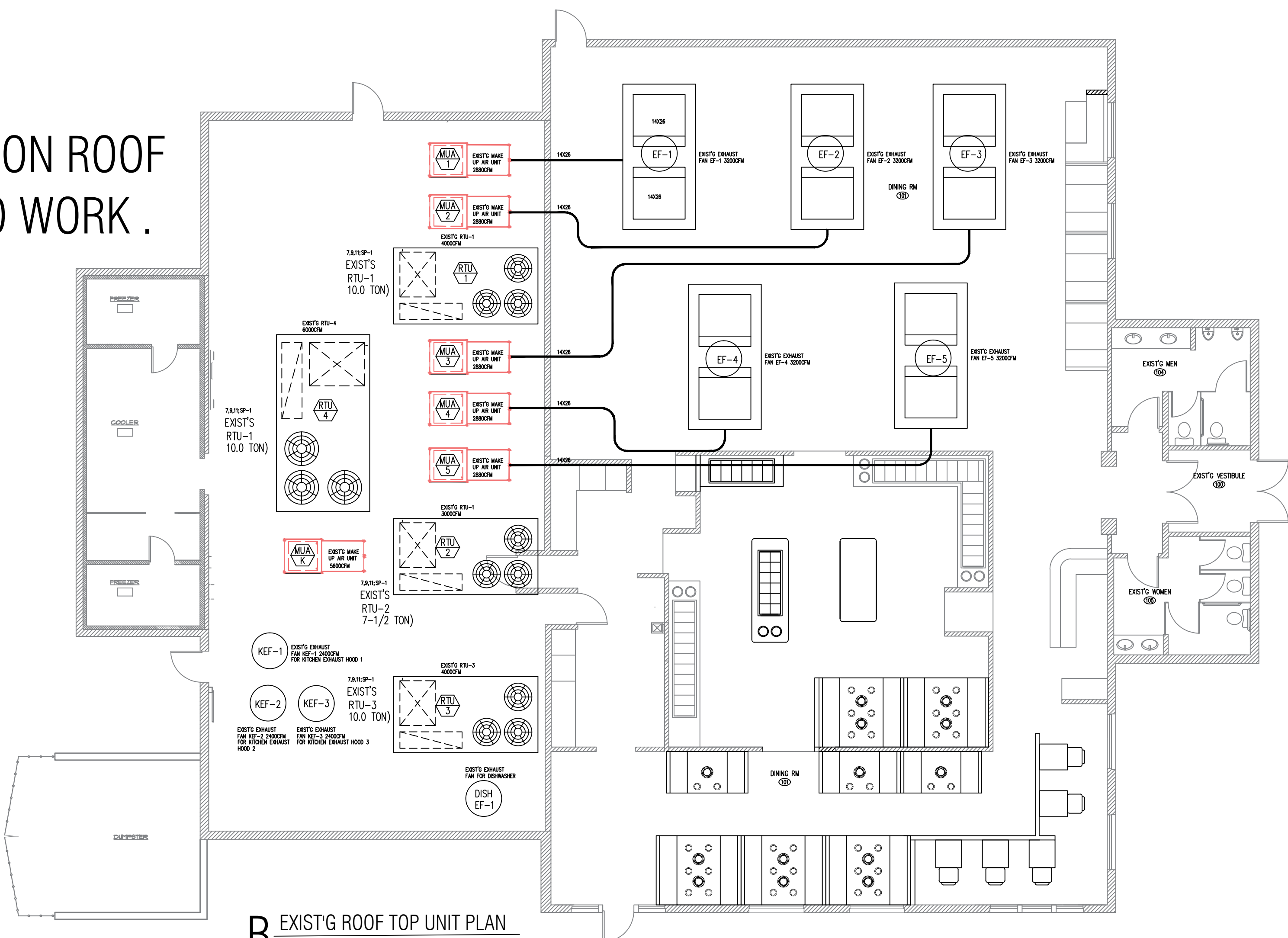
ELECTRICAL PANEL *PL-E* 200AMP /3PH															
TABL #	SERVICES	WIRE	C	B	A	AMPS	CK	CK	AMPS	A	B	C	WIRE	SERVICES	TABL #
T13a	BIG POT(1)+POT(4)	#12	---	---	2300	30	1	2	30	---	---	2300	#10	BIG POT(1)+POT(4)	T20a
T13b	BIG POT(1)+POT(2)	#12	2300	---	---	30	3	4	20	---	---	---	#12	BIG POT(1)+POT(2)	T20b
T14a	BIG POT(1)+POT(4)	#12	---	---	2300	30	5	6	20	---	---	---	#10	BIG POT(1)+POT(4)	T20c
T14b	BIG POT(1)+POT(2)	#12	2300	---	---	30	7	8	20	---	---	---	#12	BIG POT(1)+POT(2)	T20b
T15a	BIG POT(1)+POT(4)	#12	---	---	1400	20	9	10	30	---	---	---	#10	BIG POT(1)+POT(4)	T20c
T15b	BIG POT(1)+POT(2)	#12	1400	---	---	20	11	12	30	---	---	---	#12	BIG POT(1)+POT(2)	T20b
T16	BIG POT(1)+POT(2)	#12	---	---	1400	20	13	14	20	---	---	---	#12	BIG POT(1)+POT(2)	T21a
T17	BIG POT(1)+POT(2)	#12	1400	---	---	20	15	16	20	---	---	---	#12	BIG POT(1)+POT(2)	T21a
T18	BIG POT(1)+POT(2)	#12	---	---	1400	20	17	18	30	---	---	---	#10	BIG POT(1)+POT(4)	T21b
T19	BIG POT(1)+POT(2)	#12	1400	---	---	20	19								

ALL MECHANICAL INTERIOR ARE EXISTING, NO WORK.



A EXISTING MECHANICAL PLAN
SCALE 1/8" = 1'-0"

ALL MECHANICAL ON ROOF ARE EXISTING, NO WORK.



B EXISTING ROOF TOP UNIT PLAN
SCALE 1/8" = 1'-0"

MECHANICAL NOTES

1. THE CONTRACTOR SHALL EXAMINE ALL OTHER SPECIFICATIONS, DRAINING AND ALL OTHER FEATURES OF BUILDING CONSTRUCTION WHICH MAY AFFECT HIS WORK AND BE GOVERNED BY THESE SPECIFICATIONS, INCLUDING THE GENERAL CONDITIONS AND PARTICULAR INSTRUCTIONS TO ALL SUBS AND SUPPLIERS.
2. ALL WORK SHALL BE EXECUTED AND INSPECTED IN STRICT ACCORDANCE WITH ALL LOCAL CODES AND/OR STATE CODES, LAWS, ORDINANCES, RULES, AND REGULATIONS APPLICABLE TO THIS PARTICULAR CLASS OF WORK, AND EACH CONTRACTOR SHALL INCLUDE IN HIS PRICE ALL SERVICE CHARGES, FEES, PERMITS, ROYALTIES, TAXES, AND OTHER SIMILAR COST IN CONNECTION THEREWITH.
3. PRIOR TO FABRICATION OF DUCTWORK, CONTRACTOR SHALL EXAMINE AND VERIFY ALL CONDITIONS ABOVE AND BELOW THE CEILING WHICH MAY INTERFERE WITH THE DUCT SYSTEM AND NOTIFY THE ARCHITECT OF ANY CONFLICT ENCOUNTERED, CONTRACTOR SHALL PROVIDE ALL OFFSETS ETC. WHICH MAY BE REQUIRED.
4. ALL SHEET METAL CONSTRUCTION SHALL BE IN STRICT ACCORDANCE WITH "SMACNA" LOW PRESSURE DUCT CONSTRUCTION STANDARDS.
5. TURNING VANES SHALL BE INSTALLED IN ALL BENDS EXCEED 30 DEGREES.
6. ALL DUCTS SHALL BE SUPPORTED WITH 1" WIDE, 16 GAUGE GALVANIZED STEEL BANDS.
7. ALL RECTANGULAR DUCT SHALL BE INSULATED WITH A MINIMUM OF 1" INTERNAL LINER, 2 LB. DENSITY, ALL ROUND DUCT AND DIFFUSER TOP SHALL HAVE A MINIMUM OF 2" FOLDED BLANKET TYPE INSULATION WITH ALL JOINTS BUTTED AND TAPED. SUPPLY AND RETURN AIR DUCTS AND FLENNINGS SHALL BE INSULATED WITH A MINIMUM OF R-8 INSULATION. (PER 2018 IECC C403.2.3).
8. ALL DUCT DIMENSIONS SHOWN ON PLANS ARE SHEET METAL DIMENSIONS. ALLOWANCE HAS BEEN MADE FOR LINER.
9. CONTRACTOR SHALL COORDINATE LOCATION OF ALL SUPPLY AND RETURN AIR REGISTERS, DUCT, GRILLES, AND DIFFUSERS WITH LIGHTS AND CEILING PATTERNS.
10. SUPPLY AIR DIFFUSERS SHALL BE KRUEGER MODEL 1104 WITH OPPOSED BLADE DAMPERS AND FRAME 23 FOR LAY-IN CEILING.
11. MOUNT THERMOSTAT AT 48" MAXIMUM ABOVE THE FINISHED FLOOR.
12. PROVIDE U.L.F.D. AT ALL DUCT OR AIR DISTRIBUTION PENETRATIONS OF RATED WALLS, FLOORS, OR CEILING ASSEMBLIES W/ ACCESS.
13. PROVIDE CONDENSATE DRAIN W/ TRAP AT UNITS WITH DRAIN TO OPENING BY PLUMBING CONTRACTOR. COORDINATE W/ PLBC CONTRACTOR.
14. MECHANICAL CONTR' SHALL COVER W/ ELECTRICAL CONTR' & COORDINATE ALL POWER REQUIREMENT POINTS OR CONNECTION ETC. COORDINATE W/ PLBC CONTRACTOR TO INSURE PROPER CONDENSATE DRAINS.
15. COVERINGS AND LININGS, INCLUDING ADHESIVES WHEN USED, SHALL HAVE A FLAME SPREAD INDEX NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX NOT MORE THAN 50, WHEN TESTED IN ACCORDANCE WITH ASTM E 84. DUCT CORNERS AND LININGS SHALL NOT FLAME, GLOW, SMOULDER OR SMOKE WHEN TESTED IN ACCORDANCE WITH ASTM C 411 AT THE TEMPERATURE TO WHICH THEY ARE EXPOSED IN SERVICE. THE TEST TEMPERATURE SHALL NOT FALL BELOW 250T (121T).

LEGEND:

S/A HVAC SIDE SUPPLY AIR GRILL
 S/A HVAC SUPPLY AIR GRILL
 R/A HVAC RETURN AIR DIFFUSER
 E/A EXHAUST AIR GRILL
 MANUAL BALANCING DAMPER WITH LOCKING QUADRANT OPERATOR
 PROGRAMMABLE TYPE THERMOSTAT PROVIDE MANUFACTURER'S RECOMMENDED AUTO-CHANGE OVER 7-DAY/24-HOUR PROGRAMMABLE THERMOSTAT WITH REMOTE SENSOR FOR EACH UNIT.
 DUCT SMOKE DETECTOR

AIR DISTRIBUTION DUCT	NOTE:
Ø FROM (CFM)	SHUT SWITCH SHALL SHUT DOWN FAN MOTOR UPON ALARM SIGNAL FROM ALARM SYSTEM.
10"	221
12"	401

NOTE: (2018 IMC SECTION 405) MECHANICAL VENTILATION SYSTEMS SHALL BE PROVIDED WITH MANUAL OR AUTOMATIC CONTROLS THAT WILL OPERATE SUCH SYSTEMS WHENEVER THE SPACES ARE OCCUPIED. AIR-CONDITIONING SYSTEMS THAT SUPPLY REQUIRED VENTILATION AIR SHALL BE PROVIDED WITH CONTROLS DESIGNED TO AUTOMATICALLY MAINTAIN THE REQUIRED OUTDOOR AIR SUPPLY RATE DURING OCCUPANCY.
MECHANICAL CONTRACTOR SHALL ADJUST AC EQUIPMENT AS NECESSARY TO ENSURE THAT TENANT SPACE HAS MINIMUM VENTILATION AIR REQUIRED BY CO

EXIST'S AIR BALANCE SCHEDULE

MBER	SUPPLY	RETURN	OUTSIDE AIR	EXHAUST AIR
RTU-1;-3 (10 TON)	4000 X 2	3200 X 2	800 X 2	
RTU-2 (7 1/2 TON)	3000	2400	600	
RTU-4 (15 TON)	6000	4800	1200	
MUA-1 (KITCHEN AREA)			5600	
KEF-1;-2;-3 (KITCHEN AREA)				2400 X 3
TEF-1;-2;-3;-4				200 X 4
EF-1;-2;-3;-4;-5 (HOT POT DINNING)				3200 X 5
MUA-1;-2;-3;-4;-5 (HOT POT DINNING)			2880 X 5	
TOTAL:			23400	24000

OUTSIDE AIR CALCULATION PER IMC TABLE 403.3

NAME	SQ. FT.	OCCUPANT LOAD		OUTDOOR AIR (cfm/person)		OUTDOOR AIR PROVIDED
		MAXIMUM OCCUPANT LOAD, PERSON PER 1,000 SQ. FT.	CODE REQUIRED	AIR PER PERSON	OUTSIDE AIR	
DINING AREA	4094	70	7.5	2149		16600
WAITING AREA	124	100	7.5	93		
SERVICE AREA	318	20	7.5	48		
KITCHEN AREA	2407	20	7.5	361	1200	
TOTAL OUTDOOR AIR REQUIRED				2651		
TOTAL OUTDOOR AIR PROVIDED						17800

KITCHEN AREA EXHAUST REQUIRED PER IMC TABLE 403.3

	SQ. FT.	EXHAUST AIR PER SQ. FT.	EXHAUST AIR REQUIRED	EXHAUST AIR PROVIDED
KITCHEN AREA	1271	4.0	5084	2400 X 3 = 7200
HOT POT AREA	4100	2.0	8200	3200 X 5 = 16000

ROOFTOP UNIT WITH GAS HEATING SCHEDULE

MARK	NUM	NOMINAL TONNAGE	PROTOTYPE "CARRIER" MODEL NO.	SUPPLY AIR (CFM)	OUTSIDE AIR (CFM)	OUTDOOR AIR FEATURE	E.S.P. (IN. W.G.)	FAN HP	GAS INPUT (MBH)	GAS OUTPUT (MBH)	AFUE (%)	NET COOLING (MBH)	SEER/SEER	E.D.B. #	E.W.B. #	MCA	MOOP VOLTAGE	OPERATING WT.(LBS)		
RTU-1;-3 (EXIST'S)	2	10	YSC120F3	4000	800	ECONOMIZER W/BAROMETRIC RELIEF	1.0	3.0	180	140	82	70	-/12.0	80	67	45	50	208/3PH	1430	
RTU-2 (EXIST'S)	1	7.5	YSC090F3	3000	600	ECONOMIZER W/BAROMETRIC RELIEF	1.0	2.0	115	93	82	50	-/12.0	80	67	35	50	208/3PH	1430	
RTU-4 (EXIST'S)	1	15	EXIST'S	6000	1200	ECONOMIZER W/BAROMETRIC RELIEF	1.0	4.0	200	160	82	50	-/12.0	80	67	35	100	208/3PH	2530	
MUA-K (EXIST'S)	1		EXIST'S	5600	5600			3.0	210	168	82							35	208/3PH	



EXIST'G HOT POT AREA EXHAUST FAN:
EF-1,EF-2,EF-3,EF-4,EF-5=3200 CFM/120V/20A/1PH



EXIST'G HOT POT AREA MAKE-UP AIR:
MUA-1; --5=2880 CFM/208V/20A/3PH

EXHAUST FAN INFORMATION

FAN UNIT NO.	FAN UNIT MODEL #	MODEL	TAG	CFM	S.P.	RPM	H.P.	Ø	VOLT	FLA	WEIGHT (LBS.)
EF-1	EXIST'G NCA18FA	NCA18FA		3200	1.000	902	1.500	3	208	4.7	166.89
EF-2	EXIST'G NCA18FA	NCA18FA		3200	1.000	902	1.500	3	208	4.7	166.89
EF-3	EXIST'G NCA18FA	NCA18FA		3200	1.000	902	1.500	3	208	4.7	166.89
EF-4	EXIST'G NCA18FA	NCA18FA		3200	1.000	902	1.500	3	208	4.7	166.89
EF-5	EXIST'G NCA18FA	NCA18FA		3200	1.000	902	1.500	3	208	4.7	166.89

HEATER/MUA FAN INFORMATION

FAN UNIT NO.	FAN UNIT MODEL #	BLOWER	HOUSING	TAG	CFM	S.P.	RPM	H.P.	Ø	VOLT	FLA	WEIGHT (LBS.)
MAU-1	EXIST'G AI-D-250-G10	G10	AI-D-250		2880	0.700	1316	2.000	3	208	6.0	572.43
MAU-2	EXIST'G AI-D-250-G10	G10	AI-D-250		2880	0.700	1316	2.000	3	208	6.0	572.43
MAU-3	EXIST'G AI-D-250-G10	G10	AI-D-250		2880	0.700	1316	2.000	3	208	6.0	572.43
MAU-4	EXIST'G AI-D-250-G10	G10	AI-D-250		2880	0.700	1316	2.000	3	208	6.0	572.43
MAU-5	EXIST'G AI-D-250-G10	G10	AI-D-250		2880	0.700	1316	2.000	3	208	6.0	572.43

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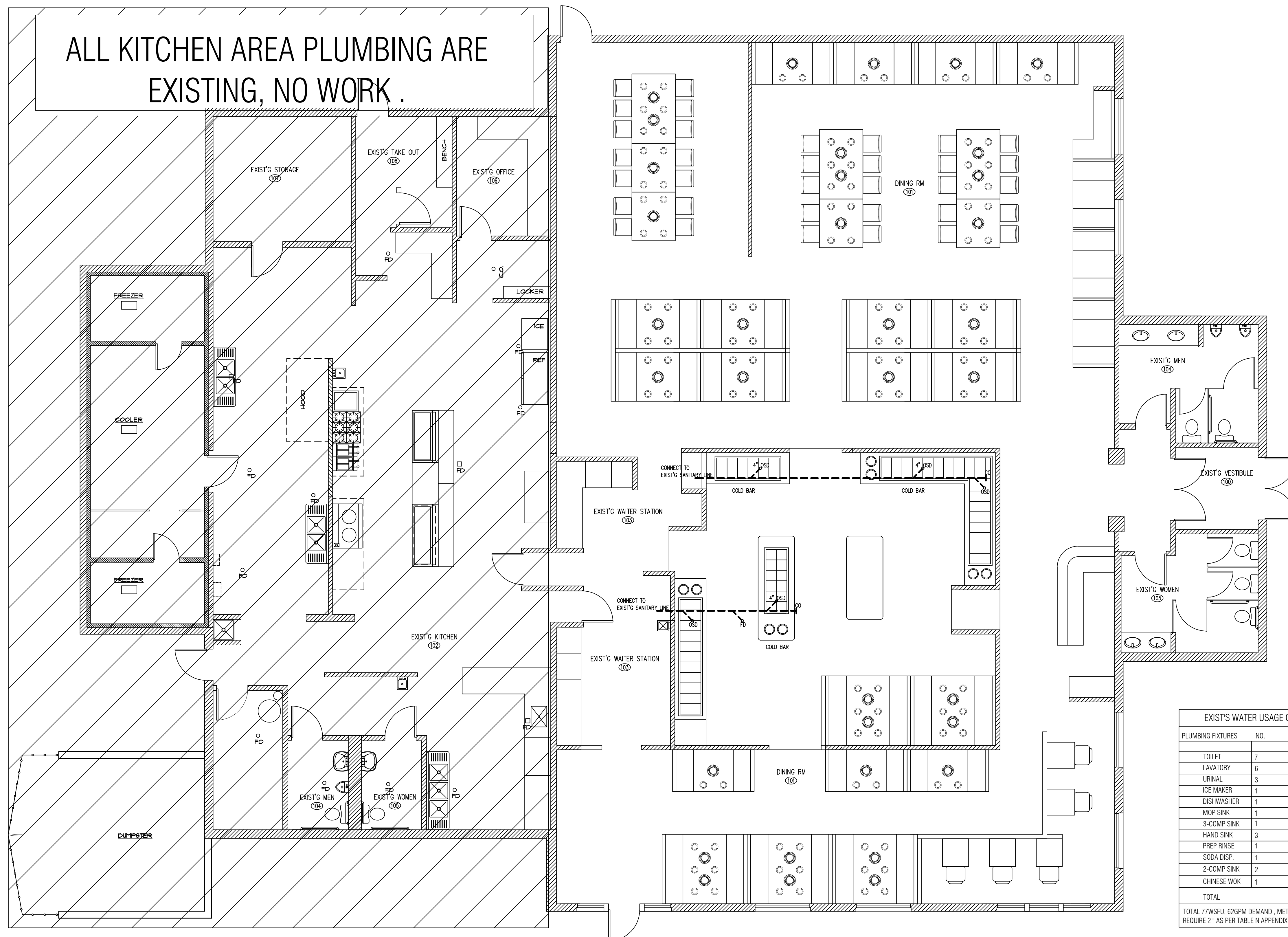


MECHANICAL
PLAN &
SCHEDULES

SHEET NUMBER

M1

ALL KITCHEN AREA PLUMBING ARE EXISTING, NO WORK.



A PLUMBING PLAN
SCALE 3/16" = 1'-0"

PLUMBING NOTES

ALL ABOVE GROUND SUPPLY WATER PIPING SHALL BE COPPER TYPE L. ABOVE GROUND WASTE / VENT PIPING SHALL BE SCHEDULE 40 PVC WITH PURPLE PRIMER ON ALL PVC JOINTS. UNDERGROUND SEWER PIPING TO BE MIN 4" SCHEDULE 40 PVC WITH PURPLE PRIMER ON ALL PVC JOINTS. CELL CORE PIPE IS NOT ALLOWED.

SEWER AND WASTE PIPING SHALL BE PRESSURE TESTED PER LOCAL PLUMBING CODE.

INDIRECT CONNECTIONS DISCHARGES THROUGH AN AIR GAP AT LEAST TWICE THE DIAMETER OF THE WATER OUTLET INTO THE DRAINAGE SYSTEM. EQUIPMENT MAY NOT DISCHARGE TO A BUCKET AND ICE MAY NOT BE STORED IN AN UNDRAINED UNIT. FLOOR DRAINS ARE NOT PERMITTED IN WALK-IN COOLERS/FREEZERS.

INDIRECT PIPING FROM FIXTURE TO THE AIR GAP MUST NOT EXCEED 5 FEET.

INDIRECTLY CONNECTED FIXTURES MUST DISCHARGE INTO VENTED TRAPS PLACED AS CLOSE AS POSSIBLE TO THE FIXTURE AND IN THE SAME ROOM. EACH FIXTURE WILL REQUIRE A SEPARATE LINE TO AVOID CROSS CONNECTION.

ALL PLUMBING VENT TERMINALS SHALL BE LOCATED NOT LESS THAN TWELVE FEET (12) HORIZONTALLY FROM ANY FRESH AIR INTAKE AT THE ROOF.

HAND SINKS MUST BE PROVIDED IN THE FOOD PREPARATION, FOOD SERVICE AREAS, DISHWASHING AREAS, AND BAR AREAS WITH MIXING FAUCETS, HOT AND COLD WATER AND APPROVED DISPOSABLE (PAPER) HAND TOWELS AND SOAP. SPRING-LOADED FAUCETS MUST RUN CONTINUOUSLY FOR A MINIMUM OF FIFTEEN (15) SECONDS.

ALL EQUIPMENT SPECIFIED COME WITH MANUFACTURER SUPPLIED VENT-LIMITING DEVICES. CONTRACTOR IS REQUIRED TO INSTALL SUCH DEVICES IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS TO MEET IFG 410.2 CODE AND TO MAINTAIN WARRANTY.

PROVIDE STEEL MESH VINYL COATED GAS LINES WITH QUICK DISCONNECTS ON ALL GAS FIRED EQUIPMENT.

ALL GAS PIPE AND FITTINGS TO BE SCHEDULE 40 BLACK GAS PIPE WITH GAS VALVES AT EACH APPLIANCE. KITCHEN EQUIPMENT MUST HAVE APPROVED GAS CONNECTORS.

ALL WATER INLETS MUST HAVE AN AIR GAP BETWEEN THE WATER INLET AND THE FIXTURE IT IS SERVING. THE AIR GAP MUST BE TWICE THE DIAMETER OF THE WATER INLET.

PROVIDE VACUUM BREAKERS ON SUBMERGED INLETS SUCH AS WATER CLOSETS, URINAL, DISH WASHER GARBAGE GRINDERS, MOP SINK FAUCET AND ANY THREADED WATER OUTLET. PROVIDE DOUBLE CHECK VALVES WITH ATMOSPHERIC VENTS OR REDUCED PRESSURE ZONED BACKFLOW PREVENTERS CAPABLE OF BEING SUBMERGED ON WATER INLETS WHERE YOU CANNOT INSTALL A VACUUM BREAKER AFTER THE LAST SHUT OFF VALVE OR SOLENOID SWITCH SUCH AS THE PRE-WASH SPRAYER.

VERIFY AIR GAP IN GRAVITY FLOAT OF THE ICE MACHINE. INSTALL WATTS 90 SERIES DUAL CHECK VALVE WITH INTERMEDIATE ATMOSPHERIC VENT BACKFLOW PREVENTOR

TO PREVENT BACKFLOW FROM CHEMICAL SYSTEM AT 3 COMP SINK, PROVIDE AN ECO-LAB PATHWAYS ELECTRONIC UNIT OR EQUIVALENT. THERE SHALL BE NO DRILLING OR TAPPING OF ANY PORTABLE WATER SUPPLY PIPE, FITTING OR FIXTURE FITTING FOR THE PURPOSE OF INTRODUCING SUCH CHEMICALS.

INDIRECT WASTE DRAINS ARE REQUIRED AT ALL THREE COMPARTMENT SINKS, DISHWASHERS, BAR SINKS, ICE MACHINES, SODA DISPENSERS, BEER TAPS, PREP SINKS, STEAM TABLES, WALK-IN COOLERS/FREEZERS CONDENSATE, OR ANY FOOD RELATED EQUIPMENT REQUIRING DRAINAGE.

PROVIDE THERMOSTATIC MIXING VALVE TO EACH LAV. FAUCET AND AS INDICATED ON SUPPLY RISER DIAGRAM WITH WATER TEMPERATURE SETTING POINT OF 110° F - DEVICE TO COMPLY W/ ANS/ASSE 1016 OR 1017

ALL TEA MAKERS, AND SODA MACHINE ARE TO BE INSTALLED WITH SS BEVERAGE CHECKS ON THE WATER FEED TO THIS EQUIPMENT.

TOILETS, URINALS, HAND SINKS, 3-COMPARTMENT SINKS, MOP BASIN, PREP SINKS, SODA CHASES, CONDUIT/PLUMBING LINES, OPENINGS IN THE WALLS/CEILING AND PERMANENT COUNTERTOPS/CABINETS MUST BE SEALED TO FLOORS/WALLS WITH A SILICONE SEAL. CAP SODA CHASES WITH A PVC END CAP, CUT TO FIT AROUND SODA SYRUP LINES. DO NOT USE FOAM.

FOR CLEAN-OUT REQUIREMENTS WITHIN THE BUILDING: ON MAIN SEWER THERE WILL NEED TO BE CLEAN-OUTS EVERY 50 FT ON 4 IN PIPE AND 100 FT ON 6 IN PIPE. BOTH NEED CLEAN-OUTS AT CHANGE OF DIRECTION.

NO DOUBLE Y CAN BE USED FOR UNDERGROUND PLUMBING WHEN 2"-4" WASTE LINES COME FROM OPPOSITE DIRECTIONS; STAGGER 2-Y'S.

PROVIDE PROPER APPROVED FIRE WRAP ON ALL P.V.C. PIPES IN CAVITY ABOVE DROP-CEILING.

FOR DISHWASHER, USE ECO-LAB SOAP SYSTEM OR EQUAL WITH SEPARATE WATER LINE WITH A DOUBLE CHECK VALVE MANUFACTURED BY WATTS INDUSTRIES. MODEL 90 OR EQUAL.

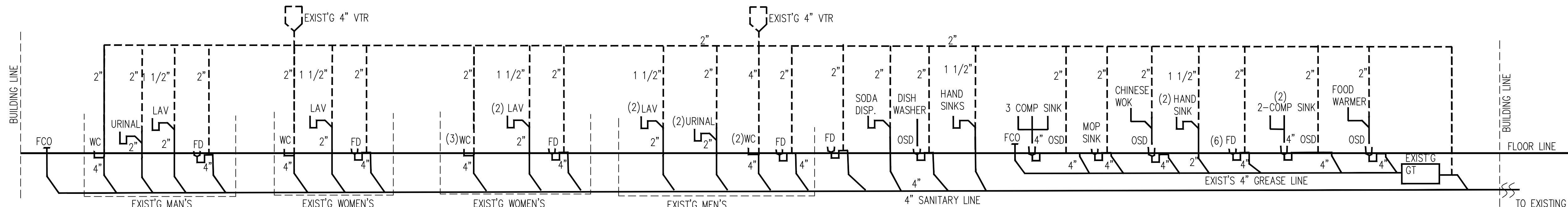
EXIST'S WATER USAGE CALCULATION

PLUMBING FIXTURES	NO.	LOAD VALVES IN WATER SUPPLY FIXTURES UNITS		TOTAL
		COLD	HOT	
TOILET	7	3		21
LAVATORY	6	1	1	12
URINAL	3	3		9
ICE MAKER	1	1		1
DISHWASHER	1	3	3	4
MOP SINK	1	3	3	4
3-COMP SINK	1	3	3	4
HAND SINK	3	1	1	6
PREP RINSE	1	3	3	4
SODA DISP.	1	1		1
2-COMP SINK	2	3	3	8
CHINESE WOK	1	3		3
TOTAL				77

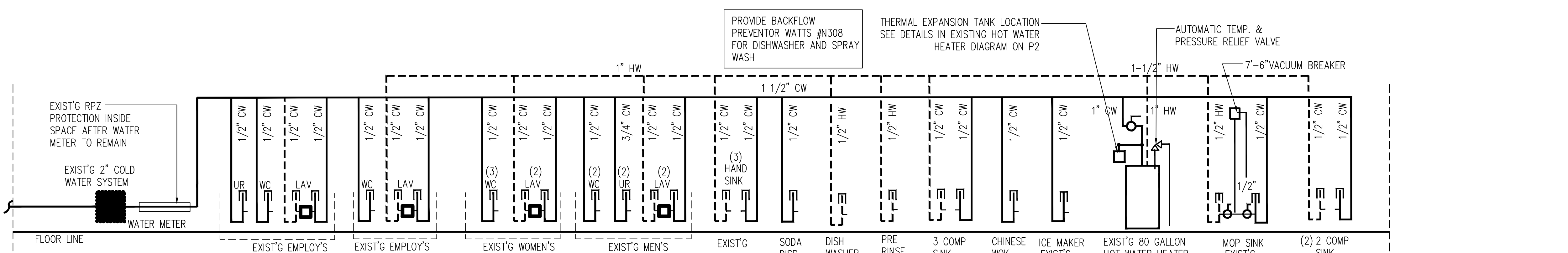
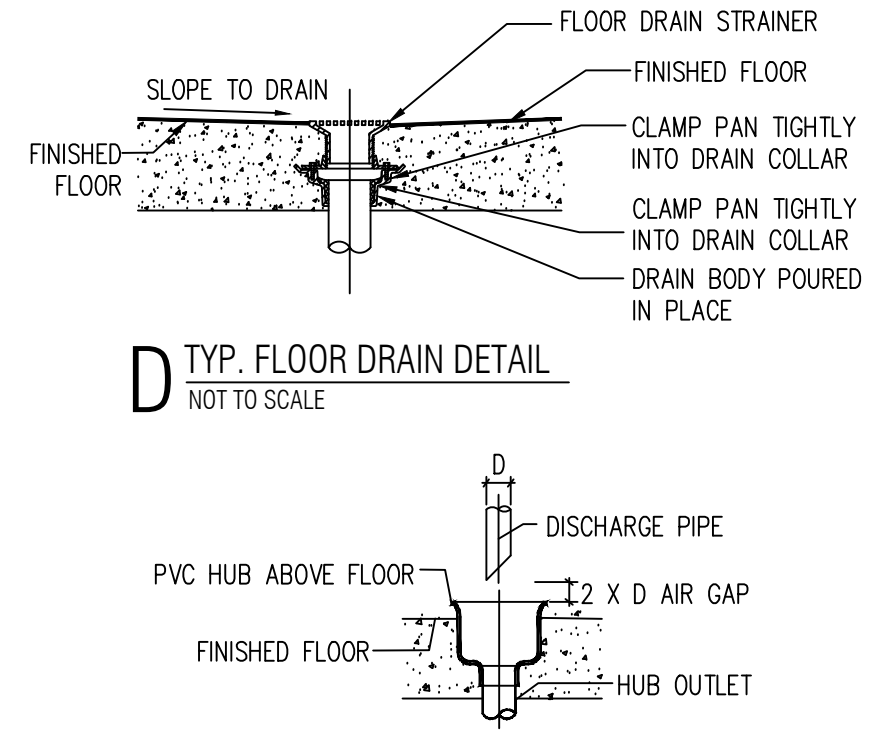
TOTAL 77WSFU 62GPM DEMAND. METER SIZE REQUIRE 1.5". PIPE SIZE REQUIRE 2" AS PER TABLE APPENDIX A

PLUMBING FIXTURES AND FITTINGS SCHEDULE

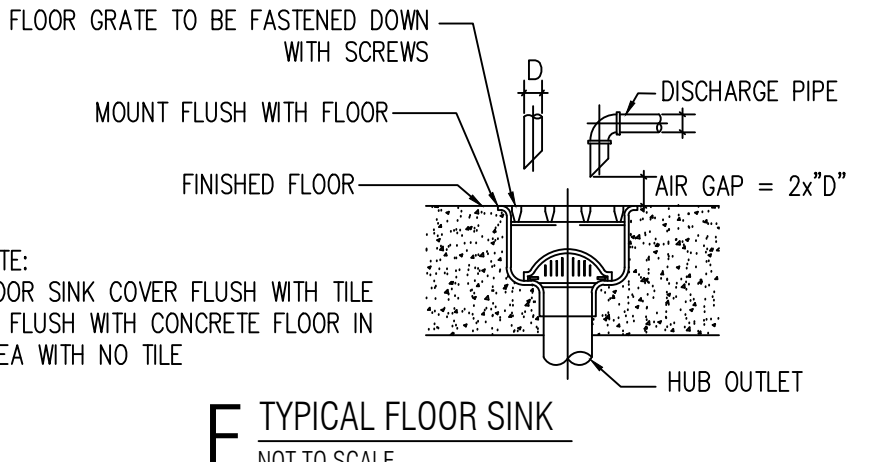
FIXTURE	MODEL	MODEL NO/REMARKS
WATER CLOSET	KOHLER	ADA COMPLAINT FLOOR MOUNTED
LAVATORY	KOHLER	ADA COMPLAINT WALL MOUNTED
URINAL	KOHLER	ADA COMPLAINT WALL MOUNTED
FAUCET	KOHLER	ADA COMPLAINT ASME/ANSI F16/F17 COMPLAINT SET TO 110F MAX
TEMPERING VALVE	WATTS	1170-M2
TOILET PAPER DISPENSER	BOBRICK	85288 ADA
GRAB BARS	BOBRICK	86686 SERIES, 36" AND 42"
SOAP DISPENSER	BOBRICK	882216 SURFACE MOUNTED
MIRROR	BOBRICK	B-165 (ADA COMPLAINT)
TRASH RECEPTACLE	BOBRICK	B-275 WALL MOUNTED
HAND DRYER	WORLD DRYER	WA126-3 PWHC WHITE AIRSPEED SURFACE MOUNTED MOUNT 38" AFF FOR ACCESSIBILITY



B WASTE RISER DIAGRAM
NOT TO SCALE



C EXIST'G SUPPLY RISER DIAGRAM
NOT TO SCALE



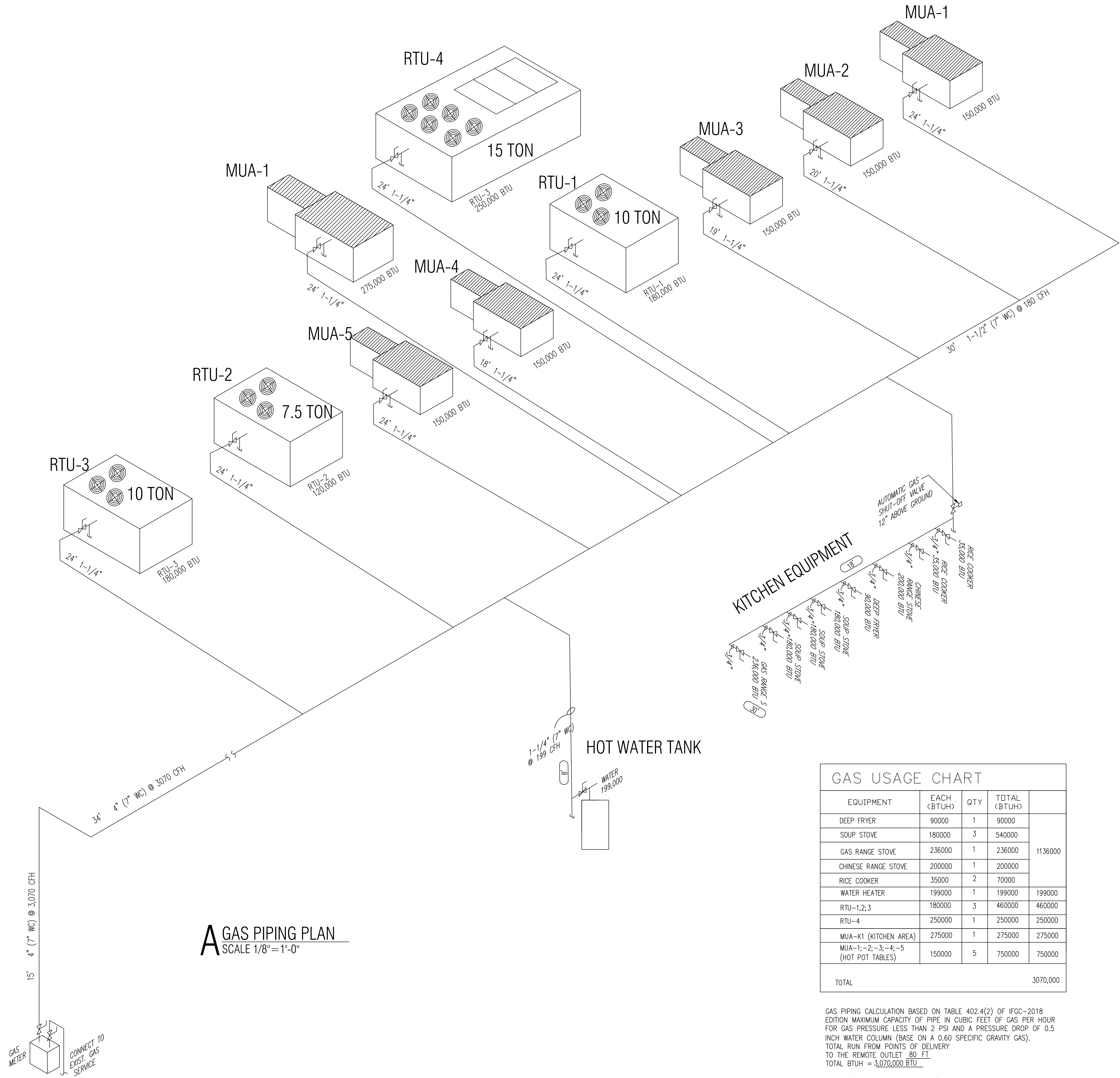
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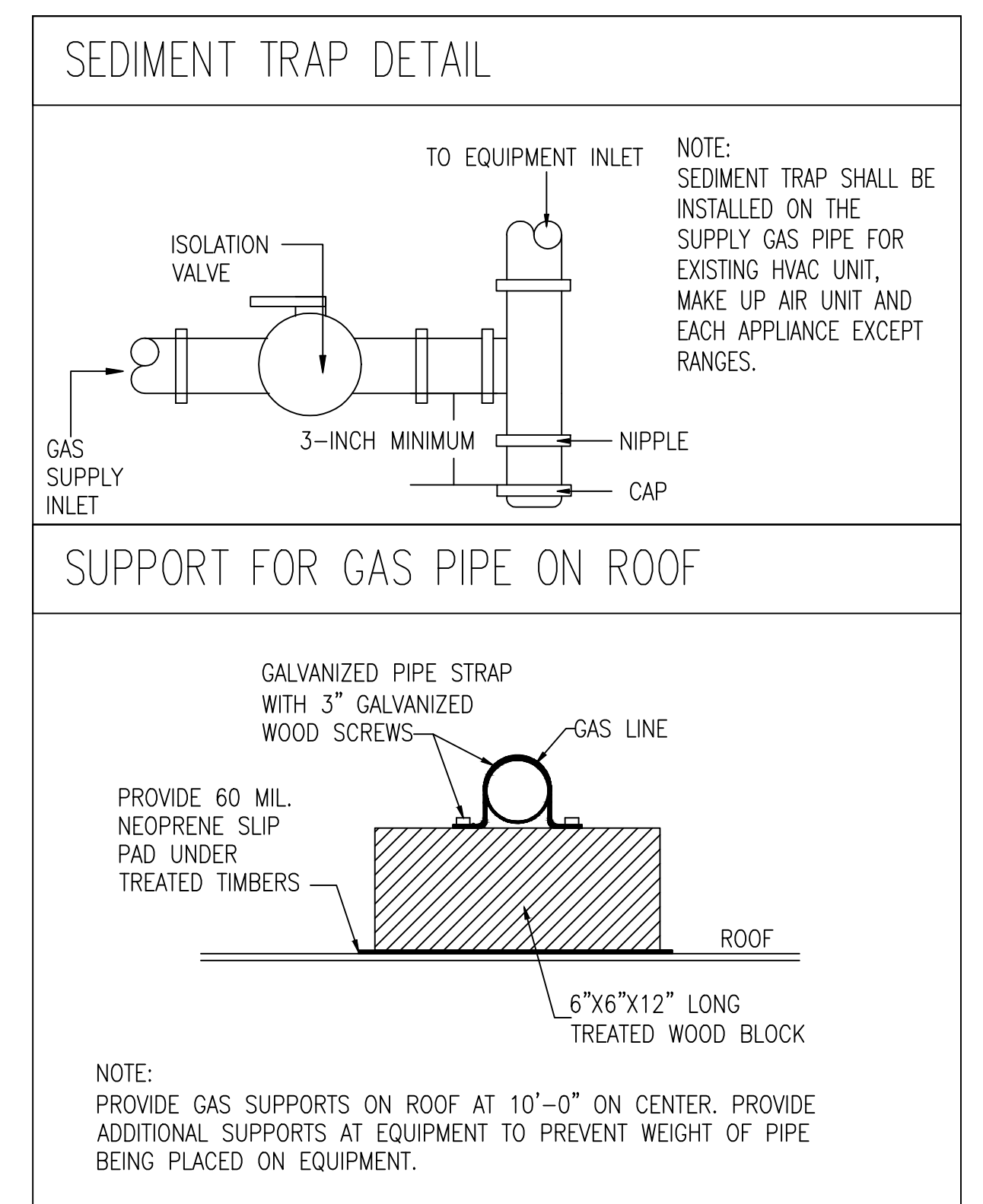


A GAS PIPING PLAN
SCALE 1/8" = 1'-0"

EQUIPMENT	EACH (BTUH)	QTY	TOTAL (BTUH)
DEEP FRYER	90000	1	90000
SOUP STOVE	180000	3	540000
GAS RANGE STOVE	236000	1	236000
CHINESE RANGE STOVE	200000	1	200000
RICE COOKER	35000	2	70000
WATER HEATER	199000	1	199000
RTU-1,2,3	180000	3	460000
RTU-4	250000	1	250000
MUA-K1 (KITCHEN AREA)	275000	1	275000
MUA-1;-2;-3;-4;-5 (HOT POT TABLES)	150000	5	750000
TOTAL			3070,000

GAS PIPING CALCULATION BASED ON TABLE 402.4(2) OF IFGC-2018 EDITION MAXIMUM CAPACITY OF PIPE IN CUBIC FEET OF GAS PER HOUR FOR GAS PRESSURE LESS THAN 2 PSI AND A PRESSURE DROP OF 0.5 INCH WATER COLUMN (BASE ON A 0.60 SPECIFIC GRAVITY GAS).
TOTAL RUN FROM POINTS OF DELIVERY TO THE REMOTE OUTLET 80 FT
TOTAL BTUH = 3,070,000 BTU

NOTE: (IFGC 2018, 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.



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GAS PLAN & NOTES
SHEET NUMBER
G1