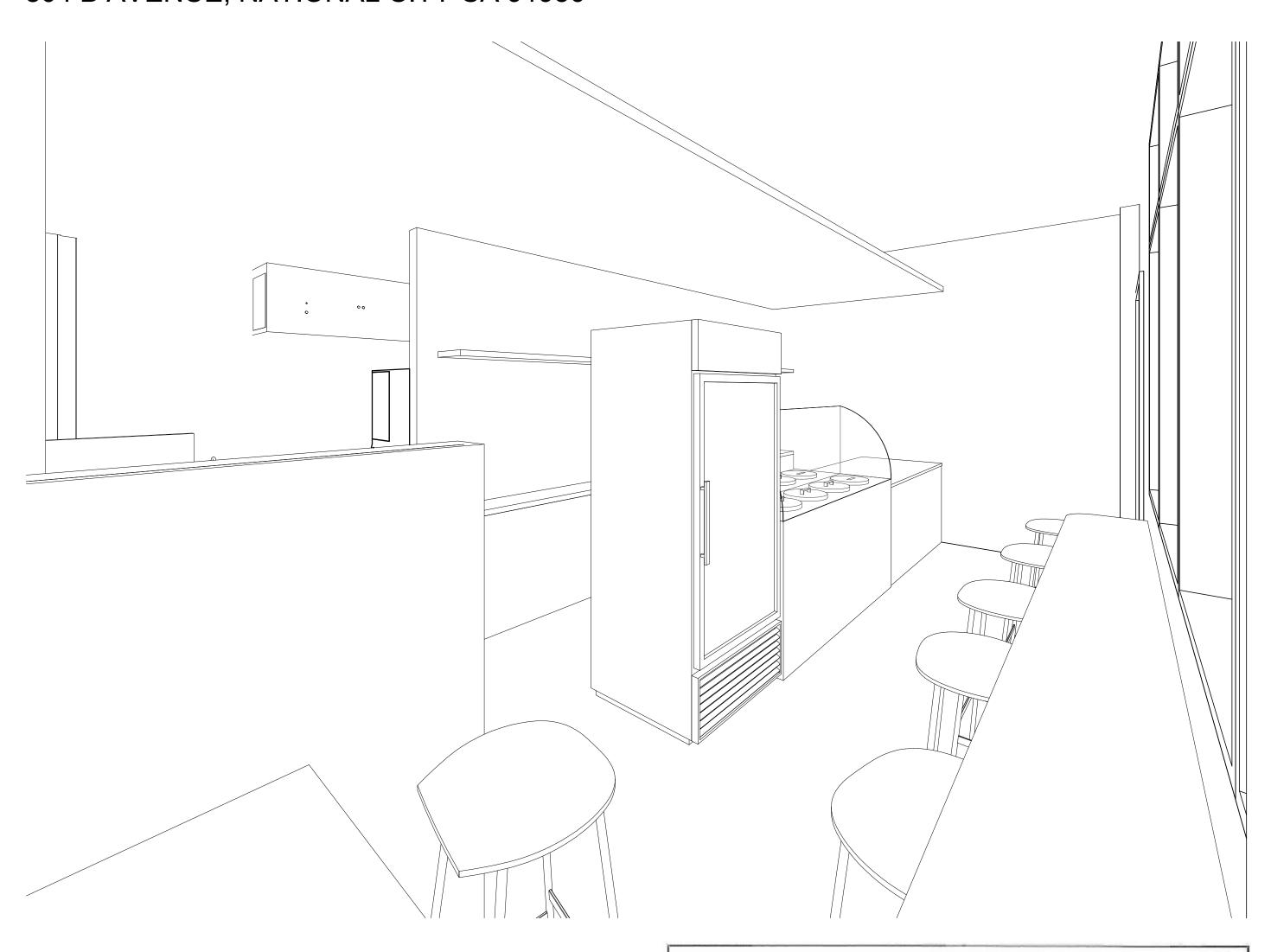
### SABOR PIRI PIRI

TENANT IMPROVEMENT 804 B AVENUE, NATIONAL CITY CA 91950



### TITLE 24 ADA COMPLIANCE

### Permit # 2019-8703 - ORGINAL PERMIT

THE ACCESSIBLE ROUTE(S) OF TRAVEL SHALL BE THE MOST PRACTICAL DIRECT ROUTE BETWEEN ACCESSIBLE POINTS.

I AM THE DESIGNER/OWNER IN RESPONSIBLE CHARGE OF THIS PROJECT. I HAVE INSPECTED THE PREMISES AND DETERMINED THAT THE NEW RESTROOM(S) AND/OR AREA OF ALTERATION WILL BE FULLY ACCESSIBLE ACCORDING TO CURRENT CODE REQUIREMENTS.

DATE 11/18/2022

I AM THE DESIGNER/OWNER IN RESPONSIBLE CHARGE OF THIS PROJECT, I HAVE INSPECTED THE SITE/PREMISES AND DETERMINED THAT EXISTING CONDITIONS SHALL BE MODIFIED IN FULL COMPLIANCE WITH CURRENT SITE ACCESSIBILITY REQUIREMENTS TO THE EXTENT REQUIRED BY LAW.

> JEREMY ARTATES 11/18/2022

IF THE BUILDING INSPECTOR DETERMINES NON-COMPLIANCE WITH ANY CURRENT ACCESSIBLITY. PROVISIONS OF THE LAW, HE/SHE SHALL REQUIRE SUBMITTAL OF COMPLETE AND DETAILED PLANS TO BUILDING AND SAFETY DIVISION OF THE DEVELOPMENT SERVICES DEPARMENT FOR FURTHER REVIEW. PLANS MUST CLEARLY SHOW ALL EXISTING NON-COMPLYING CONDITIONS AFFECTED BY THE REMODEL (INCLUDING SITE PLAN, FLOOR PLANS, DETAILS, ETC.) AND PROPOSED MODIFICATIONS OF DEFICIENCIES TO MEET CURRENTS ACCESSIBLITY PROVISIONS. THE PLANS MUST BE SIGNED AND DATED BY THE FIELD INSPECTOR PRIOR SUBMITTAL FOR PLAN-

IF THE BUILDING INSPECTOR DETERMINES THAT FULL COMPLIANCE WITH CURRENT SITE ACCESSIBILITY REQUIREMENTS IS NOT PROVIDED. HE/SHE SHALL REQUIRE SUBMITTAL OF A DETAILED SITE PLAN FOR ADDITIONAL PLAN REVIEW AND COMMENTS.

G:\Building and Safety\HANDOUTS \Title 24 ADA Compliance

### GENERAL INFORMATION

ADDRESS: 804 B AVE. NATIONAL CITY CA 91950

APN: 556:472-26-00

LEGAL DESCRIPTION: BLK 2\*LOTS 11 THRU 20 IN SUB OF LOT QSEC 154 MP166 IN\

TENANT NAME: SABOR PIRI PIRI

PROPERTY TOTAL SQ FT: 453 SQFT

USE TYPE: FOOD/RETAIL - COMMERCIAL

FIRE ALARM: YES

WATER AND SEWER DISTRICT: SWEETWATER

**BUILDING CODE: 2019 CALIFORNIA BUILDING** CODE CBC

TYPE OF FACILITY: SINGLE SERVICE UTENSILS

NUMBER OF EMPLOYEES: 3

### **SCOPE OF WORK:**

THIS PROJECT WILL PROPOSE A 453SF TENANT IMPROVEMENT KITCHEN AND SERVING AREA WITH NEW MECHANICAL / ELECTRICAL / PLUMBING EQUIPMENT AND NEW MENU INSIDE AN EXISTING BUILDING SHELL FOR A HEALTH DEPARMENT PERMIT AND BUILDING PERMIT. NO STRUCTURAL WORK WILL BE PROPOSED.

### **APPLICABLE CODES:**

**BUILDING CODE:** 2019 CALIFORNIA BUILDING CODE (CBC)

PLUMBING CODE: 2019 CALIFORNIA PLUMBING CODE (CPC)

MECHANICAL CODE: 2019 CALIFORNIA MECHANICAL CODE (CMC)

2019 CALIFORNIA ELECTRICAL CODE (CEC) ELECTRICAL CODE:

**ENERGY CODE:** 2019 CALIFORNIA ENERGY CODE

FIRE/LIFE SAFETY: 2019 CALIFORNIA FIRE CODE (CFC)

ACCESSIBILITY CODE: 2019 CALIFORNIA BUILDING CODE

(TITLE 24, PART 2)

### PROJECT TEAM

### **TENANT/OWNER:**

**CANDIDO GADAGA** SABOR PIRI 804 B AVE. NATIONAL CITY CA. 619.200.8246 GADAGACANDIDO@GMAIL.COM

### **DESIGNER:**

BASECAMP CONSTRUCTION CO. JEREMY ARTATES 75 3RD AVE UNIT 21 CHULA VISTA CA 91910 949.702.2859

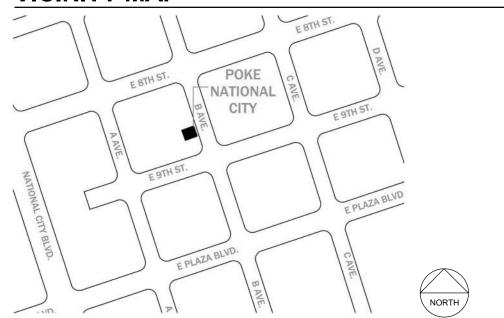
JEREMYARTATES@GMAIL.COM

### MECHANICAL / PLUMBING / ELECTRICAL

**CARLOS RIVAS** RIVERSIDE ENGINEERING INC. 11801 PIERCE STREET, SUITE #200 **RIVERSIDE CA 92507** 951.512.3280

INFO@RIV-ENG.COM

### **VICINITY MAP**



### **PROJECT INFORMATION**

OCCUPANCY CLASSIFICATION: B (RESTAURANT) WITH OL UNDER 50

DESCRIPTION OF USE: RESTAURANT

TYPE OF CONSTRUCTION: 1A NON-COMBUSTABLE

DESCRIPTION OF USE: RESTAURANT UNDER 50 OCC.

SPRINKLERS: YES, EXISTING

STORIES: 1

HEIGHT: 10'-6"

FLOOR AREA: THIS T.I. = 453 SF

OCCUPANT LOAD: 33

ALLOWABLE AREA: ALLOWABLE = UNLIMITED

ALLOWABLE HEIGHT: 1 (ACTUAL) / UNLIMITED (ALLOWED)

### **SHEET INDEX**

### GENERAL

G0.1 TITLE SHEET **G0.2 GENERAL NOTES** 

G0.3 NOTES

G0.4 NOTES

ARCHITECTURAL

A0.2 ACCESSIBILITY DETAILS

A0.3 ACCESSIBILITY DETAILS

A0.4 EXTERIOR WALL ASSEMBLIES A0.5 INTERIOR WALL ASSEMBLIES

A0.6 ASSEMBLY DETAILS

A1.0 SITE PLAN

A1.1 FLOOR PLANS

A1.2 CEILING PLANS

A1.3 EQUIPMENT SCHEDULE A1.4 INTERIOR ELEVATIONS

**E0.1 ELECTRICAL GENERAL NOTES** 

**E0.2 LEGEND AND NOTES** 

E2.1 ELECTRICAL POWER PLAN E2.2 ELECRICAL LIGHTING PLAN

E4.1 ELECTRICAL SINGLE LINE DIAGRAM AND LOAD CALCULATIONS

E4.2 COMPLIANCE CERTIFICATION

M0.1 MECHANICAL SPECIFICATIONS, LEGEND

M0.2 MECHANICAL SCHEDULES

M0.3 MECHANICAL T24 FORMS

M0.4 MECHANICAL T24 FORMS M2.1 MECHANICAL FLR AND ROOF PLAN

M3.1 MECHANICAL DETAILS

M3.2 MECHANICAL DETAILS

M4.1 MECHANICAL HOOD DETAILS M4.2 MECHANICAL HOOD DETAILS

M4.3 MECHANICAL HOOD DETAILS

M4.4 MECHANICAL HOOD DETAILS

M4.5 MECHANICAL HOOD DETAILS

M4.6 MECHANICAL HOOD DETAILS

M4.7 MECHANICAL HOOD DETAILS

### M4.8 MECHANICAL HOOD DETAILS **PLUMBING**

P0.1 PLUMBING GENERAL NOTES, 2022 CAL GREEN

P0.2 PLUMBING SCHEDULES

P0.3 PLUMBING T-24 FORMS P0.4 PLUMBING T-24 FORMS

P2.1 PLUMBING LAYOUT

P3.1 PLUMBING SCHEMATIC DIAGRAM

P4.1 PLUMBING DETAILS

P4.2 PLUMBING DETAILS

SUBMITTAL DOCUMENTS FOR DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE, WHO SHALL REVIEW THEM AND FORWARD THEM TO THE BULIDING OFFICIAL WITH A NOTATION INDICATED THAT THE DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN REVIEWED AND THAT THEY HAVE BEEN FOUND TO BE IN GENERAL CONFORMANCE WITH THE DESIGN OF THE BUILDING. THE DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THEIR DESIGN AND SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING OFFICIAL.

### **DEFERRED SUBMITTALS:**

- FIRE ALARM

- FIRE SPRINKLER

- EXTERIOR FIRE HORN STROBE

- HOOD FIRE SUPPRESSION SYSTEM



DRAWN BY: PROJECT# XX-XXX

DESCRIPTION 02/17/2023 NC REV 1 NC REV 2 07/05/2023

DRAWINGS PREPARED BY:

TITLE SHEET

SHEET:

**G**0.1

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### **ABBREVIATIONS**

			0.544045	<b>5</b> )46 <b>7</b>	T. ((0T))   0						D=0# !=\!= D + 0=	0) (0	0.407714
A	AND	CO	CLEANOUT	EXIST	EXISTING	HB	HOSE BIB	N	NORTH	RB	RESILIENT BASE	SYS	SYSTEM
&	AND	COL	COLUMN	EXP	EXPANSION	HB	HOSE BIBB	N	NORTH	RBR	RUBBER	T -	
@	AT	CONC	CONCRETE	EXT	EXTERIOR	HC	HANDICAPPED	NA	NOT APPLICABLE	RCP	REFLECTED CEILING PLAN	T	TREAD
AB	ANCHOR BOLT	COND	CONDITION	F	5:55 A. A. S. A.	HDWD	HARDWOOD	NC	NOISE CRITERIA	RD	ROOF DRAIN	T&B	TOP AND BOTTOM
AC	AIR CONDITIONING	CONN	CONNECTION	FA	FIRE ALARM	HDWR	HARDWARE	NIC	NOT IN CONTRACT	REC	RECESSED	T&G	TONGUE AND GROOVE
ACC	ACCESSIBLE	CONST	CONSTRUCTION	FB	FACE BRICK	HGT	HEIGHT	NO	NUMBER	RECPT	RECEPTACLE	TB	TOWEL BAR
ACOUST	ACOUSTICAL	CONT	CONTINUOUS	FD	FLOOR DRAIN	HM	HOLLOW METAL	NOM	NOMINAL	REF	REFERENCE	TEL	TELEPHONE/TELECOM
ACT	ACOUSTIC CEILING TILE	CONTR		FD	FLOOR DRAIN OR FIRE DEPARTMENT	HNDRL	HANDRAIL	NON COMB	NON COMBUSTIBLE	REFR	REFRIGERATOR	TELE	TELEPHONE
AD	AREA DRAIN	COORD		FDC	FIRE DEPARTMENT	НО	HOLD OPEN	NTS	NOT TO SCALE	REG	REGISTER	TEMP	TEMPERATURE
ADJ	ADJACENT	CORR	CORRIDOR	FDC	CONNECTION	HORIZ	HORIZONTAL		NOT TO SCALE	REINF	REINFORCED REINFORCING	TEMP	TEMPORARY
AFF	ABOVE FINISHED FLOOR	CPT	CARPET	FE	FIRE EXTINGUISHER	HR	HOUR	0	OLITCIDE AID	REINF	REINFORCED	THK	THICKNESS
AFG	ABOVE FINISHED GRADE	CT	CERAMIC TILE	FEC	FIRE EXTINGUISHER	HRC	HOSE REEL CABINET	OA	OUTSIDE AIR	REL	RELOCATE	THRU	THROUGH
AGGR	AGGREGATE	CTR	CENTER	ILO	CABINET	HTG	HEATING	00	ON CENTER	REM	REMOVABLE	TKBD	TACK BOARD
ALT	ALTERNATE	CTSK	COUNTERSUNK	FF&E	FURNITURE. FIXTURES AND	HVAC	HEATING VENTILATION AND	OD	OUTSIDE DIAMETER	REOOM	RECOMMENDED	TLT	TOILET
ALUM	ALUMINUM	CW	COLD WATER		EQUIPMENT	1.047	AIR CONDITIONING	OD	OVERFLOW DRAIN	REQ	REQUIRE/REQUIRED	TMPD	TEMPERED
ANOD	ANODIZED	D		FFB	FLUSH FLOOR BOX	HW	HOT WATER	OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED	REQD	REQUIRED	TO	TOP OF
APC	ACOUSTICAL PANEL	D	DEEP, DEPTH	FFEL	FINISH FLOOR ELEVATION	l 		OFF	OFFICE	RESIL	RESILIENT	TOB	TOP OF BEAM
	CEILING	DBL	DOUBLE	FH	FLAT HEAD	ID	INSIDE DIAMETER	OFF		REV	REVISION/REVISED	TOC	TOP OF CONCRETE
	( APPROXIMATE	DEG	DEGREE	FHC	FIRE HOSE CABINET	IN	INCH/INCHES	OFOI	OWNER FURNISHED, OWNER INSTALLED	RM	ROOM	TOS	TOP OF STEEL
ARCH	ARCHITECTURAL	DEMO	DEMOLISH OR DEMOLITION	FIN	FINISH		INCANDESCENT	ОН	OVERHEAD	RO	ROUGH OPENING	TS	TUBE STEEL
ASPH	ASPHALT	DEMO	DEMOLITION	FIXT	FIXTURE	INCL	INCLUDED/INCLUDING	OPNG	OPENING	RTD	RATED	TV	TELEVISION
ATTN	ATTENTION	DEPT	DEPARTMENT	FLASH	FLASHING	INFO	INFORMATION	OPNG	OPPOSITE	RTG	RATING	TYP	TYPICAL
AUTO	AUTOMATIC	DF	DRINKING FOUNTAIN	FLR	FLOOR	INSUL	INSULATION			RWL	RAIN WATER LEADER	U	
AV	AUDIOVISUAL	DIA	DIAMETER	FLUOR	FLUORESCENT	INSUL	INSULATED OR INSULATION	ORD	OVERFLOW ROOF DRAIN	S		UNFIN	UNFINISHED
В		DIFF	DIFFUSER	FND	FOUNDATION	INT	INTERIOR	1	DAINIT	S	SOUTH	UNO	UNLESS NOTED
BD	BOARD	DIM	DIMENSION	FO	FACE OF	INTERM	INTERMEDIATE	P	PAINT	SA	SUPPLY AIR		OTHERWISE
BIT	BITUMINOUS	DIMS	DIMENSIONS	FP	FIRE PROTECTION	INV	INVERT	PAV	PAVING	SAF	SELF ADHERED FLASHING	UON	UNLESS OTHERWISE
BLDG	BUILDING	DISP	DISPENSER	FPG	FIREPROOFING	J		PBD	PARTICLE BOARD	SC	SOLID CORE		NOTED
BLK	BLOCK	DIV	DIVISION	FR	FIRE RESISTANT	JAN	JANITOR	PC	PRECAST	SCHED	SCHEDULE	URNL	URINAL
BLKG	BLOCKING	DMPF	DAMP PROOFING	FRC	FIBER REINFORCED	JC	JANITOR'S CLOSET	PDF	POWER DRIVEN FASTENER	SD	STORM DRAIN	V	
BM	BEAM	DN	DOWN	FRU	CONCRETE	JST	JOIST	PERF	PERFORATED	SECT	SECTION	VAC	VENTILATION AND AIR
ВО	BOTTOM OF	DO	DOOR OPENING	FRT	FIRE RETARDANT TREATED	JT	JOINT	PERIM	PERIMETER	SF	SQUARE FEET/FOOT		CONDITIONING
BOT	BOTTOM	DR	DOOR	FT	FEET/FOOT	K		PERP	PERPENDICULAR	SH	SPRINKLER HEAD	VAR	VARIES
BRG	BEARING	DRN	DRAIN	FTG	FOOTING	KIT	KITCHEN	PI.	PLATE	SHR	SHOWER	VCT	VINYL COMPOSITION TILE
BRK	BRICK	DS	DOWNSPOUT	FURN	FURNITURE	KO	KNOCK OUT	PLAM	PLASTIC LAMINATE	SHT	SHEET	VERT	VERTICAL
BRKT	BRACKET	DS	DOWN SPOUT	FURR	FURRING	L		PLAS	PLASTER	SIM	SIMILAR	VEST	VESTIBULE
BSMNT	BASEMENT	DTL	DETAIL	FWC	FABRIC WALL COVERING	LAM	LAMINATE	PLBG	PLUMBING	SM	SHEET METAL	VIF	VERIFY IN FIELD
С		DW	DISHWASHER	FWP	FABRIC WRAPPED PANEL	LAV	LAVATORY	PLF	POUNDS PER LINEAR FOOT	SM	SURFACE MOUNTED	VP	VISION PANEL
С	CHANNEL	DWG	DRAWING	G	FABRIC WRAFFED FAIREL	LB	POUNDS	PLYWD	PLYWOOD	SP	STANDPIPE	VR	VAPOR RETARDER
CAB	CABINET	DWR	DRAWER		GAUGE	LLH	LONG LEG HORIZONTAL	PNL	PANEL	SPEC	SPECIFICATION	VT	VINYL TILE
CAT	CATEGORY	F	5.0.002.0	GA GALV	GALVANIZED	LLV	LONG LEG VERTICAL	PNT	PAINT OR PAINTED	SPEC	SPECIFIED OR	VWC	VINYL WALL COVERING
СВ	CATCH BASIN	CMU	CONCRETE MASONRY UNIT			LT	LIGHT	POL	POLISHED	3. 20	SPECIFICATION	W	
СВ	CEMENT BOARD	F	EAST	GB	GRAB BAR	M		PR	PAIR	SPK	SPRINKLER OR SPEAKER	W	WIDE/WEST
CBU	CEMENTITIOUS BACKER	EA	EACH	GC	GENERAL CONTRACT(OR)	MAS	MASONRY	PREFAB		SPKR	SPEAKER	W/	WITH
	UNIT	EB	EXPANSION BOLT	GEN	GENERAL	MAX	MAXIMUM	PROJ	PROJECT	SQ	SQUARE	W/O	WITHOUT
CC	CENTER TO CENTER	EJ	EXPANSION JOINT	GFRC	GLASS FIBER REINFORCED CONCRETE	MECH	MECHANICAL	PSF	POUNDS PER SQUARE	SS	STAINLESS STEEL	WC	WATER CLOSET
CCTV	CLOSED CIRCUIT	EL	ELEVATION	GL	GLASS	MED	MEDIUM		FOOT	SSK	SERVICE SINK	WD	WOOD
	TELEVISION	ELEC	ELECTRICAL	GLAZ	GLASS		MEMBRANE	PT	POINT	STA	STATION	WIN	WINDOW
CEM	CEMENT	ELEV	ELEVATOR	GRAN	GRANULAR	MFR	MANUFACTURER	PT	PRESSURE TREATED	STC	SOUND TRANSMISSION	WM	WIRE MESH
CER	CERAMIC	EMER	EMERGENCY	GRAN		MH	MAN HOLE	PTD	PAINTED		COEFFICIENT	WP	WATERPROOF/WATERPROO
CG	CORNER GUARD	ENCL	ENCLOSURE	GRFG	GROUND GLASS FIBER REINFORCED	MIN	MINIMUM	PTN	PARTITION	STL	STEEL		FING
CH	CHILLER	ENG	ENGINEER	GKFG	GYPSUM	MISC	MISCELLANEOUS	PVC	POLYVINYL CHLORIDE	STOR	STORAGE	WPM	WATERPROOF MEMBRANE
CI	CAST IRON			GSM	GALVANIZED SHEET METAL	MO	MASONRY OPENING	Q		STRG	STRINGER	WS	WEATHER-STRIPPING
CIP	CAST-IN-PLACE	EPDM	ELECTRICAL PANEL	GSW	GAS VALVE	MR	MOISTURE RESISTANT	QT	QUARRY TILE		STRUCTURAL	WSCT	WAINSCOT
CJ	CONTROL JOINT	EPDM	ETHYLENE PROPYLENE DIENE M-CLASS			MTD	MOUNTED	QTY	QUANTITY		STRUCTURE OR	WT	WEIGHT
CL	CENTERLINE	EQ	EQUAL	GWB GYP	GYPSUM WALL BOARD GYPSUM	MTG	MOUNTING	R		2001	STRUCTURAL	WV	WATER VALVE
CLG	CEILING	EQUIP	EQUIPMENT		GIFOUN	MTL	METAL	R	RADIUS/RISER	SUBCAT	SUBCATEGORY	WWF	WELDED WIRE FABRIC
CLR	CLEAR	EXH	EXHAUST	Н	HIGH/HEIGHT	MULL	MULLION	RA	RETURN AIR	SUSP	SUSPENDED	WWM	WELDED WIRE MESH
CNTR	COUNTER	LAH	LAI IAUU I	Н	поп/пеюпт	IVIULL	IVIOLLIOIN	RAD	RADIUS	SYM	SYMMETRICAL		

### **SYMBOLS**

CALL OUT

GRID MARKER

CENTER LINE

DOOR DESIGNATION

INTERIOR ELEVATION

EXTERIOR ELEVATION

KEYNOTE

**REVISION TAG** 

SECTION DESIGNATION

WALL TAG

NORTH ARROW



DRAWN BY:	Author	
PROJECT#	XX-XXX	
NUMBER	DESCRIPTION	DATI

800 B AVENUE SUITE 804 NATIONAL CITY CA 91950 SABOR PIRI PIRI 1

DRAWINGS PREPARED BY:

**GENERAL NOTES** 

**G0.2** 

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### **HEALTH DEPARTMENT NOTES:**

### FLOORS:

1.THE FLOOR SURFACES OF A FOOD ESTABLISHMENT MUST BE DURABLE, CLEANABLE AND IMPERVIOUS TO WATER, FOOD, BY PRODUCTS AND CHEMICALS USED ON THE FLOOR FOR CLEANING OR OTHER PURPOSE.

2. FLOOR SURFACES IN ALL AREAS WHERE FOOD IS PREPARED, PACKAGED, DISPENSED

OR STORED, WHERE ANY UTENSIL IS WASHED, WHERE REFUSE OR GARBAGE IS STORED, WHERE JANITORIAL FACILITIES ARE LOCATED, IN ALL TOILET AND HAND WASHING AREAS AND IN EMPLOYEE CHANGE AND STORAGE ROOMS, IS TO BE OF AN APPROVED FLOOR SURFACE THAT CONTINUES UP THE WALL AT LEAST FOUR INCHES WITH A 3/8" MINIMUM RADIUS COVE AS AN INTEGRAL UNIT. THIS EXTENSION OF THE FLOOR INCLUDES TOE-KICKS OF COUNTERS AND EQUIPMENT THAT SETS FLUSH ON THE FLOOR. (VINYL RUBBER TOPSET COVE BASE IS NOT ACCEPTABLE).

3. FLOOR DRAINS ARE REQUIRED IN NEW TOILET ROOMS, IN AREAS WHERE DISH MACHINES ARE USED, IN JANITORIAL ROOMS WITH MOP SINKS, IN BARS EQUIPPED WITH BAR SINKS OR GLASS WASHERS, AND IN FRONT OF WALK-IN COOLERS OR EQUIPMENT WHICH ARE CLEANED BY WATER FLUSHING OR WHERE PRODUCTS ARE ICED DOWN. THE FLOOR SURFACE NEEDS TO SLOPE TO THE FLOOR DRAINS (1/4" PER FOOT).

4. FLOORING UNDER EQUIPMENT SHALL BE COMPLETELY SMOOTH FOR CLEANABILITY. FLOOR SURFACES THAT CONTAIN ANTI-SLIP AGENTS OR SURFACES ARE LIMITED TO FOOT TRAFFIC AREAS ONLY.

TRAFFIC AREAS ONLY.

5. ALL FLOOR MOUNTED EQUIPMENT WILL BE INSTALLED ON MINIMUM 6" SANITARY LEGS, CASTORS, OR COMPLETELY SEALED IN POSITION ON A 4" HIGH CURB WITH CONTINUOUSLY COVED BASE, COUNTERTOP EQUIPMENT WILL BE ON 4-INCH SANITARY LEGS OR SEALED TO THE COUNTER UNLESS READILY MOVABLE.

6. THE FLOOR FINISH WILL HAVE A SMOOTH SURFACE UNDER ALL EQUIPMENT AND

WALKWAYS WILL HAVE A LIGHT TEXTURE ONLY.
7. PRIOR TO INSTALLATION, SAMPLES OF FINISHES TO BE SUBMITED TO ENVIRONMENTAL HEALTH FOR APROVAL AS NEEDED

### WALLS:

1. WALLS IN ALL AREAS EXCEPT THE DINNIG SPACES ARE REQUIRED TO BE DURABLE, SMOOTH SURFACED, LIGHT COLORED WITH AN EASILY CLEANABLE AND WASHABLE SURFACE. WALL SURFACES THAT CANNOT BE USED INCLUDE BRICK, CONCRETE BLOCK, ROUGH CONCRETE, ROUGH PLASTER, GROOVED PANELING, WALLPAPER, AND VINYL WALL COVERINGS. THESE SURFACES ARE EITHER TOO ROUGH, NOT CLEANABLE, OR DON'T HAVE SUFFICIENT DURABILITY.

2. ACCEPTABLE WALL SURFACES INCLUDE GLOSS OR SEMI-GLOSS ENAMEL PAINT, APPROVED EPOXY COATINGS, FIBER REINFORCED PLASTIC (FRP) PANELS, CERAMIC TILE (LIGHT COLORED), SYNTHETIC ENAMEL PAINT, OR OTHER APPROVED MATERIALS WITH A LIGHT RELFLECTANT VALUE (LRV) OF 70% OR MORE. POLISHED STAINLESS STEEL SHEETING IS ACCEPTABLE IN THESE AREAS. FRP AND METAL FLASHING SURFACES NEED TO BE SEALED TO THE SUB-WALL

SURFACES.

3. WALL SURFACES BEHIND SINKS (POTS AND PANS JANITORIAL, UTENSIL, FOOD PREPARATION, HAND BASINS) AND DISHWASHERS MUST HAVE A MINIMUM EIGHT (8) FOOT HIGH WATER RESISTANT OTHER APPROVED MATERIAL. FRP STAINLESS STEEL, CERAMIC TILE, OR OTHER APPROVED MATERIALS ARE ACCEPTABLE IN THESE AREAS. FRP AND METAL FLASHING SURFACES NEED TO BE SEALED TO THE SUB-WALL SURFACE.

4. WALL SURFACES OF TOILET ROOMS ARE REQUIRED TO BE SMOOTH SURFACED AND CLEANABLE. WALLS BEHIND HAND BASINS, TOILETS, AND URINALS WILL NEED WAINSCOTTING THAT COMPLIES WITH LOCAL BUILDING DEPARTMENT REQUIREMENTS. IF WAINSCOTING IS REQUIRED, THE SURFACE NEEDS TO BE SMOOTH SURFACED, DURABLE, AND WATER RESISTANCE.

5. WALL SURFACES OF 70% LRV OR GREATER ARE NOT REQUIRED IN BARS WHERE

ALCOHOLIC BEVERAGES ARE SOLD OR SERVED DIRECTLY TO THE CUSTOMER (EXCEPT BEHIND BAR SINKS, DINNING AND SALES AREAS, OFFICES, AND RESTROOMS THAT ARE USED EXCLUSIVELY BY PRATONS.

6. THE PAINT USED ON WALLS AND CEILINGS OF ALL KITCHEN, FOOD PREPARATION, WORK, AND STORAGE AREAS WILL BE A GLOSS OR SEMI GLOSS ENAMEL, FINISH MATERIAL SHALL BE A LIGHT COLOR IN FOOD PREP AREAS FOR EASY CLEANING.

### CEILINGS:

1. CEILING SURFACES IN ALL FOOD PREPARATION ARES ARE REQUIRED TO BE SMOOTH SURFACED, LIGH-COLORED, AND EASILY CLEANABLE WITH A LIGHT REFLECTED VALUE (LRV) OF 70% OR MORE. ACCEPTABLE SURFACES INCLUDE GLOSS OR SEMI-GLOSS LIGHT COLORED ENAMEL PAINT, APPROVED EPOXY COATINGS, SMOOTH SURFACED LAY-IN VINYL PANELS (SAMPLE MAY BE REQUIRED) AND SIMILAR APPROVED SURFACES.

2. BLOWN OR ACOUSTICAL CEILING MATERIAL AND TEXTURED LAYING ACOUSTICAL CEILING PANELS MAY BE USED ONLY IN DINNING ROOMS AND NON-FOOD PREPARATION OR HANDLING SPACES (E.G., HALLWAYS, PURE OFFICE SPACES, ETC.).

3. WAITRESS STATIONS, SALAD BARS, FOOD SERVING, OR SELF-SERVICE OPEN FOOD COUNTERS OR OTHER SIMILAR STATIONS LOCATED IMMEDIATELY ADJACENT TO, OR IN THE DINING AREAS, NEED FOOD PREPARATION AREA REQUIREMENTS.

### CONDUIT:

UTENSILS

ALL PLUMBING, ELECTRICAL AND GAS LINES ARE REQUIRED TO BE CONCEALED WITHIN THE BUILDING STRUCTURE TO THE GREATEST EXTENT POSSIBLE ALL EXPOSED CONDUITS, PLUMBING, ETC. SHALL BE INSTALLED AT LEAST 6" OFF FLOOR AND 3/4 FROM WALLS USING STANDOFF BRACKETS.
 WHERE CIRCUMSTANCES EXIST (PRIMARILY STRUCTURAL LIMITATIONS OR RESTRICTIONS OF THE BUILDING) SO THAT IT IS NOT POSSIBLE TO INSTALL CONDUIT BEHIND THE WALLS, THEN ALL CONDUIT RUNS ARE TO BE LOCATED AT LEAST 3/4 INCH AWAY FROM THE WALLS OR CEILINGS, AND MINIMUM OF SIX INCHES ABOVE THE FLOOR. CONDUIT IS TO BE INSTALLED SO THAT IS IS SECURED.
 WHERE CONDUIT OR PLUMBING LINES ENTER A WALL, CEILING OR FLOOR. THE

PREVENT THE ENTRY OF RODENTS OR VERMIN. THE SEALANT MATERIAL NEEDS TO BE RODENT PROOF.

4. CONDUIT, PLUMBING OR PIPING CANNOT BE INSTALLED ACROSS ANY AISLE WAY,

OPENING AROUND THE CONDUIT OR PLUMBING IS REQUIRED TO BE TIGHTLY SEALED TO

TRAFFIC AREA OR DOOR OPENING.

5. MULTIPLE RUNS OR CLUSTERS OR CONDUIT OR PIPELINES ARE REQUIRED TO BE FURRED OUT AND ENCASED IN AN APPROVED RUNWAY OR OTHER SEALED ENCLOSURE.

6. FLOOR DRAINS SHALL BE INSTALLED IN FLOORS THAT ARE WATER FLUSHED FOR CLEANING AND IN AREAS WHERE PRESSURE SPRAY METHODS FOR CLEANING EQUIPMENT ARE USED, IN RESTROOMS, JANITORIAL ROOMS, SCULLERIES, AND AT BARS WITH WAREWASHING FLOOR SURFACES IN AREAS PURSUANT TO THIS SHALL BE SLOPED 1:50 TO THE FLOOR DRAINS.

SHATTESHIELDS WILL BE PROVIDED FOR ALL LIGHTS ABOVE FOOD PREPARATION, WORK, AND STORAGE AREAS.

### TRASH ENCLOSED

A CONCRETE SLAB IS PROVIDED FOR TRASH, GARBAGE, AND GREASE CONTAINER, IF WALLS ENCLOSE AREA, THE INTERIOR WALL SURFACES WILL BE SMOOTH, SEALED AND WASHABLE (EG, PLASTERED SMOOTH AND PAINTED, ETC.)

### REFRIGERATION:

ALL REFRIGERATION UNITS ARE REQUIRED TO HAVE AN ACCURATE, READILY VISIBLE WORKING THERMOMETER. THE THERMOMETER SHOULD BE PLACED IN THE WARMEST PART OF THE COMPARTMENT, USUALLY NEAR THE DOOR.
 SHELVING OF THE REFRIGERATOR UNIT NEEDS TO BE NONABSORBENT AND EASILY CLEANABLE. WOOD IS NOT AND ACCEPTABLE SHELVING MATERIAL.
 THE INTERIOR OF THE REFRIGERATOR MUST HAVE SMOOTH, NONABSORBENT, AND EASILY CLEANABLE SURFACES. ALL JOINTS MUST BE SEALED.
 CONDENSATE WASTE FROM REACH-IN REFRIGERATOR UNITS MUST BE DRAINED INTO THE PUBLIC SEWER VIA A FLOOR SINK WITH LEGAL AIR GAP.
 RAPID COOL DOWN FACILITIES MAY BE REQUIRED DEPENDING UPON THE FOOD OPERATION.

### WALK IN REFRIGERATION UNITS:

1. THE FLOOR OF A WALK-IN REFRIGERATOR UNIT IS REQUIRED TO HAVE AN INTEGRAL COVE BASE WITH A RADIUS OF AT LEAST 3/8" AT THE FLOOR-WALL JUNCTURE. THE FLOOR MATERIAL IS REQUIRED TO EXTEND UP THE WALL AT LEAST FOUR INCHES AND BE OF ONE-PIECE CONSTRUCTION. FOUR INCH APPROVED METAL TOPSET COVING WITH A MINIMUM 3/8" RADIUS IS ACCEPTABLE ONLY AGAINST METAL WALL SURFACES OF WALK-IN UNITS.

WALK-IN ONT'S.

WOOD AND VINYL ARE NOT ACCEPTABLE FLOOR SURFACES FOR WALK-IN UNITS.

2. THE INTERIOR WALLS OF HE WALK IN UNIT ARE REQUIRED TO BE SMOOTH SURFACED, LIGHT COLORED, MOISTURE PROOF, DURABLE, AND ABLE TO WITHSTAND PROLONGED EXPOSURE TO LOW TEMPERATURES.

3. SHELVING OF A WALK-IN UNIT IS REQUIRED TO BE LISTED BY NSF OR HAVE AN EQUIVALENT CERTIFICATION. THE SHELVING MUST KEEP FOODS OFF THE FLOOR OF THE WALKING UNIT MINIMUM OF SIX INCHES. BE LEGS, OR BE CANTILEVERED FROM THE WALL SURFACE FOR EASE CLEANING.

4. CONDENSATE WASTE LINES ARE REQUIRED TO DRAIN TO A FLOOR SINK VIA LEGAL AIR GAP, LOCATED OUTSIDE OF THE WALK IN UNIT. FLOOR SINKS, FLOOR DRAINS, OR SEWER CLEANOUTS ARE NOT PERMITTED INSIDE A WALK-IN REFRIGERATOR UNIT.

5. THE CONDENSATE LINE MUST BE ROUTED TO THE NEAREST WALL AND THEN EXIT THE WALK-IN UNIT. THE CONDENSATE LINE CANNOT BE LOCATED CLOSER THAN 3/4 INCH TO THE WALL OR CEILING, AND NO CLOSER THAN SIX INCHES TO THE FLOOR. THE CONDENSATE LINE MUST BE CONSTRUCTED OR RIGID PIPING THAT IS SECURED TO THE ADJACENT WALL WITH THE CLEAREANCES AS INDICATED.

6. WALK-IN REFRIGERATOR UNITS ARE REQUIRED TO OPEN DIRECTLY INTO THE FOOD ESTABLISHMENT.

7. COLD STORAGE ROOMS SHALL BE PROVIDED WITH A SECTION OF SHELVING INSTALLED

7. COLD STORAGE ROOMS SHALL BE PROVIDED WITH A SECTION OF SHELVING INSTALLE TO HOLD SHALLOW COOL DOWN PANS NOT TO EXCEED 4" IN HEIGHT SPACE BETWEEN SHELVING TO BE AT LEAST 8" HIGH.

### I OOD SINKS

1. FLOOR SINKS ARE TO BE INSTALLED FLUSH WITH THE FLOOR SURFACE AND HAVE APPROPRIATE COVER GRATE(S).

2. FLOOR SINKS MUST BE INSTALLED SO THAT THEY ARE READILY ACCESSIBLE FOR INSPECTION, CLEANING, AND MAINTENANCE. APROTECTIVE ENCLOSURE WILL BE REQUIRED AROUND THE BACK SIDE OF HALF-EXPOSED FLOOR SINDS INSTALLED UNDER CURB OR BASE MOUNTED EQUIPMENT.

3. THE FLOOR SINK MUST BE LOCATED WITHIN FIFTEEN FEET OF THE DRAIN OPENING OF THE EQUIPMENT SERVED. HOWEVER, FLOOR SINKS FOR ICE MACHINES MUST BE LOCATED IMMEDIATELY ADJACENT TO THE ICE MACHINE.

4. WASTE LINE PLUMBING DRAINING TO THE FLOOR SINK MUST BE LOCATED AT LEAST

4. WASTE LINE PLUMBING DRAINING TO THE FLOOR SINK MUST BE LOCATED AT LEAST 3/4 INCH FROM THE WALL AND SIX INCHES OFF THE FLOOR. THE PIPING IS TO TERMINATE AT LEAST ONE INCH ABOVE THE OVERFLOW RIM OF THE FLOOR SINK, OR THE MINIMUM CLEARANCE OF DISCHARGE PIPE).

5. WASTE LINE PLUMBING TO A FLOOR SINK MAY NOT CROSS ANY AISLE WAY, TRAFFIC AREA, OR DOOR OPENING.

7. ALL LIQUID WASTE SHALL BE DRAINED BY MEANS INDIRECT WASTE PIPES INTO A FLOOR SINK, FLOOR SINKS ARE TO BE INSTALLED FLUSH WITH THE FINISHED FLOOR SURFACE AND HAVE SUITABLE EASILY REMOVABLE SAFETY COVER GRATES.

8. FLOOR SINK TO BE 50% EXPOSED WHEN NO ACCESS IS PROVIDED FOR CLEANING OR BE IN LINE WITH THE FRONT FACE OF ELEVATED FREEST ANDING EQUIPMENT.

### KITCHEN UTENSIL SINK:

1. A THREE COMPARTMETN STAINLESS STEEL SINK WITH DUAL, INTEGRALLY INSTALLED STAINLESS STELL DRAINBOARDS MEETING CURRENT NSF STANDARDS IS REQUIRED FOR FOOD ESTABLISMENTS WASHING MULTI-SERVICE KITCHEN UTENSILS (I.E. POTS, PANS, KNIVES, UTENSILS, ETC.).

2. THE MINIMUM COMPARTMETN SIZE IS REQUIRED TO BE AT LEAST 18" BY 18" BY 12" DEEP. TEH DRAINBOARDS ARE REQUIRED TO BE A MINIMUM OF 18" BY 18" BY 18".

3. WHEN A SINK IS INSTALLED NEXT TO A WALL, A METAL "BACKSPLASH" EXTENDING UP THE ALL AT LEAST EIGHT INCHES WILL BE REQUIRED AS PART OF AND INTEGRAL TO THE SINK. THE BACKSPLASH NEEDS TO BE SEALED TO THE WALL TO CLOSE ANY GAPS BETWEEN THE SHEET METAL AND WALL SURFACE.

4. ALL FOOD-RELATED AND UTENSIL-RELATED EQUIPMENT SHALL MEET OR BE

EQUIVALENT TO SANITATION STANDARS ESTABLISHED BY AN AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) ACCREDITED PROGRAM.

5. ALL WAREWASHING SINKS TO HAVE 3 COMPARTMENTS THAT ARE MINIMUM SIZE OF AT LEAST 18"X18"X12" DEEP (OR 16"X20"X12") WITH A MINIMUM 18" DRAIN BOARD AT EACH END. IF AGAINST A WALL, IT MUST HAVE AN 8" INTEGRAL BACK SPLASH, HOWEVER, IT MUST BE CAPABLE OF ACCOMMODATING THE LARGEST UTENSIL TO BE WASHED. A WAREWASHING MACHINE DOES NOT SUBSTITUTE FOR THE SINK REQUIREMENT.

6. SINKS TO HAVE SPOUT(S) CAPABLE OF REACHING EACH COMPARTMENT.

7. THE 3 OR 4 COMPARTMENT BAR SINK TO BE AT LEAST 12"X12"X10" DEEP (OR 10"X14"X10" DEEP) WITH A MINIMUM 18" DRAINBOARD AT EACH END.

### FOOD PREPARATION SINKS:

1. FOOD ESTABLISHMENTS UTILIZING A SINK FOR FOOD PREPARATION, SUCH AS

THAWING, WASHING, ETC., ARE REQUIRED TO HAVE AT LEAST A ONE COMPARTMENT FOOD PREPARATION SINK, SEPARATE FROM UTENSIL WASHING SINKS. THE FOOD PREPARATION SINK SI REQUIRED TO DRAIN TO AN ADJANCENTLY LOCATED FLOOR SINK VIA LEGAL AIR

2. FOOD PREPARATION SINKS MUST MEET ALL NSF STANDARDS.
3. FOOD PREP SINK COMPARTMENT(S) TO BE AT LEAST 18"X18"X12" DEEP (OR 16"X20"X12" DEEP) WITH A MINIMUM 18" DRAINBOARD SEPARATE FOOD PREP SINKS TO BE PROVIDED FOR MEATS AND PRODUCE.
4. A SEPARATE WET WASTE DUMP FIXTURE SHALL BE PROVIDED FOR DISPOSAL OF DRINK OR WASTE ICE OR COFFEE WASTE DRAINBOARD AT EACH END.

1. ALL AUTOMATIC DISHWASHERS, PAN WASHERS, AND GLASS WASHERS MUST BE

### DISHWASHERS/GLASS WASHERS

LISTED BY THE NATIONAL SANITATION FOUNDATION INTERNATIONAL (NSF) IN THE LATEST ISSUE OF STANDARD #3. DEVICES NOT LISTED IN STANDARD #3 MAY NOT BE USED IN PUBLIC FOOD ESTABLISHMENTS.

2. ALL SPRAY TYPE DISHWASHERS, PAN WASHERS AND GLASS WASHERS WHICH ARE DESIGNED FOR A HOT WATER BACTERICIDAL RINSE ARE REQUIRED TO BE PROVIDED WITH A BOOSTER HEATER THAT MEETS THE REQUIREMENTS OF STANDARD #5 OF THE NSF INTERNATIONAL, OR BE CONNECTED TO AN APPROVED HOT WATER RECIRCULATING SYSTEM WHICH IS CAPABLE OF MAINTAINING THE RINSE WATER AT NOT LESS THAN 180EF. THESE TYPES OF DISHWASHERS WILL REQUIRE THE INSTALLATION OF AN APPROVED EXHAUST HOOD TO REMOVED STEAM, HEAT AND VAPORS GENERATED BY THE DISHWASHING MACHINE.

3. DISHWASHERS, PAN WASHERS, AND GLASS WASHERS ARE REQUIRED TO HAVE TOW INTEGRAL STAINLESS STEEL DRAINBOARDS AT LEAST 18 INCHES LONG.

4. THE DISHWASHER MUST ALSO BE PROVIDED WITH THERMOMETERS AND PRESSURE GAUGES TO INDICATE THE PROPER WATER FLOW PRESSURES AND TEMPERATURES.

5. ALL WASTE FROM DISHWASHERS, PAN WASHERS, AND GLASS WASHERS ARE REQUIRED TO DRAIN TO AN ADJACENT FLOOR SINK VIAL LEGAL AIR GAP. THE UNDER DRAIN PLUMBING FOR THE FLOOR SINK MUST HAVE A MINIMUM 3" TRAP.

6. UNDERCOUNTER-TYPE AUTOMATIC DISHWASHERS NEED TO BE PLACED ON CURBING IF THE MACHINE IS NOT MOUNTED ON CASTERS.

### JANITORIAL SINK AND SUPPLIES:

1. THE JANITORIAL SINK IS REQUIRED TO BE LOCATED IN A SEPARATE JANITORIAL ROOM OR SEPARATED FROM THE REST OF THE FOOD ESTABLISHMENT EQUIPMENT WITH 18" OF HORIZONTAL DISTANCE OR BY A SOLID PARTITION. THE PARTITION MUST BE WALL MOUNTED, FREE STANDING, DURABLE, SMOOTH, AND EASILY CLEANABLE.

2. ALL JANITORIAL SINKS ARE TO BE SUPPLIED WITH HOT AND COLD RUNNING WATER TO A MIXING TYPE FAUCET WITH 3/4" HOSE OUTLET. THE FAUCET FIXTURE IS TO HAVE AN APPROVED BACK-FLOW PREVENTION DEVICE ATTACHED.

3. FOR CLEANING FLOOR MATS, THE JANITORIAL SINK TO BE A MINIMUM 24" BY 36" FLOOR MOUNTED TYPE MOPS SHALL BE PLACED IN A POSITION THAT ALLOWS THEM TO AIR-DRY WITHOUT SOILING WALLS, EQUIPMENT, OR SUPPLIES.

4. THE JANITORIAL SINK FAUCET WILL HAVE A THREADED OUTER LIP FOR HOSE ATTACHMENT AND AN APPROVED BACKFLOW PREVENTION DEVICE NO CHEMICAL DISPENSING SYSTEM OR SHUTOFF VALVES TO BE ATTACHED TO MOP SINK FAUCET OUTLET (UNLESS A SIDEKICK PLUMBING DEVICE IS INSTALLED).

5. NO CONDENSATE WASTEWATER INCLUDING HVAC WILL DRAIN INTO THE JANITORIAL

### HANDWASHING SINKS:

HANDSINKS ARE REQUIRED TO BE PLACED IN EACH FOOD PREPARATION AREA. EACH HANDWASH SINK SHALL PROVIDE HOT AND COLD RUNNING WATER UNDER PRESSURE THROUGH A MIXING TYPE FAUCET IS REQUIRED.
 SOAP AND SANITARY TOWELS ARE REQUIRED TO BE PROVIDED IN SINGLE-ERVICE, PERMANENTLY INSTALLED DISPENSERS AT EACH HANDSINK.
 A SEPARATE HANDSINK MUST BE INSTALLED IN EACH SECTION OF A FOOD ESTABLISHMENT WHICH HANDLES UNPACKAGED FOOD (I.E.,DELI,MEAT,BAKERY,BEVERAGE BARS, SUSHI BAR, BAR, ECT.).
 IF A HANDSINK IS LOCATED DIRECTLY ADJACENT TO A FOOD PREPARATION OR UTENSIL-WASHING SINK, THEN A BARRIER IS REQUIRED TO PREVENT SPLASH OVER FROM

THE HADNDSINK TO THE FOOD PREPARATION/UTENSIL SINK. THE BARRIER IS TO BE THE

LENGTH OF THE SINK AND AT LEAST TWELVE INCHES HEIGHT & WATERPROOF.

### DRY FOOD AND BEVERAGE STORAGE:

1. AT LEAST NINETY-SIX FEET OF APPROVED SHELVING UNITS ARE REQUIRED FOR BACK-UP DRY STORAGE SPACE

2. SHELVING NEEDS TO BE DESIGNED AND CONSTRUCTED SO AS TO BE EASILY CLEANABLE. SHELVING LOCATED OVER SINKS AND OTHER WET AREAS MUST BE CONSTRUCTED OF METAL.

3. SHELVES INSTALLED ON A WALL ARE TO HAVE A MINIMUM ONE INCH GAP OR OPEN SPACE BETWEEN THE BACK EDGE OF THE SHELF AND THE WALL SURFACE.

4. THE LOWEST SHELF MUST BE CONSTRUCTED AT LEAST SIX INCHES ABOVE THE FLOOR SURFACE WITH THE SPACE UNDER THE SHELF CLEAR AND UNOBSTRUCTED FOR CLEANING ACCESS UNDERNEATH. IF THE SPACE BELOW IS NOT TO BE ACCESSIBLE, THEN THE OPENING IS TO BE SEALED OFF, WITH THE FLOOR SURFACE COVING UP THE SEAL FACE CONTINUOUSLY A MINIMUM OF FOUR INCHES WITH A 3/8 INCH RADIUS.

5. THE SHELVING IS MOUNTED ON LEGS ARE TO BE AT LEAST SIX INCHES IN HEIGHT AND CONSTRUCTED OF METAL MEETING THE REQUIREMENTS OF THE NSF FOR METAL LEGS.

6. BACKUP DRY STORAGE SHELVING SHALL BE A MINIMUM 96 LINEAR FEET (MEASURED WITH TIERS) OR 25% OF KITCHEN, FOOD PREP, AND WORK AREAS, WHICHEVER IS GREATER, SHELVING SHALL BE AT LEAST 18 INCHES DEEP AND START A MINIMUM SIX INCHES OFF THE FLOOR SURFACE.

### RESTROOMS:

1. TOILET FACILITIES ARE REQUIRED WITHIN EACH FOOD FACILITY AND MUST BE ACCESSIBLE FOR THE EMPLOYEES. EXISTING TOILET FACILITIES MUST BE MINIMUM OF TWENTY SQUARE FEET IN FLOOR SURFACE AREA. NEWLY CONSTRUCTED TOILET ROOMS WILL BE LARGER IN ORDER TO COMPLY WITH HANDICAP REQUIREMENTS UNDER AMERICANS WITH DISABILITIES ACT (ADA).

AMERICANS WITH DISABILITIES ACT (ADA).

2. TOILET ROOM DOORS SHALL BE SELF-CLOSING AND TIGHT FITTING WITH A 1" AIR GAP.

3. ALL TOILET ROOMS SHALL BE PROVIDED WITH VENTILATION MEETING THE REQUIREMENTS OF THE UNIFORM MECHANICAL CODE AND/OR UNIFORM BUILDING CODE.

### MISCELLANEOUS ITEMS:

WATER SUPPLY TO CARBONATORS SHALL BE PROTECTED BY AN APPROVED REDUCED
PRESSURE PRINCIPLE BACK FLOW PREVENTOR. THE RELIEF VALVE SHALL DRAIN INDIRECTLY TO SEWER WITH A LEGAL AIR GAP.
2. WATER TYPE STEAM TABLES, STEAM KETTLES, WOKS, AND OTHER WATER USING
EQUIPMENT MUST HAVE A FILL FAUCET FOR REPLENISHING/ADDING WATER TO THE

DEVICE. THESE DEVICES ALSO NEED TO BE PROPERLY DRAINED TO A FLOOR SINK WITH A LEGAL AIR GAP SEPARATION.

3. IF SOFT DRINK, ICE, OR OTHER DISPENSERS ARE SELF-SERVICE BY THE CUSTOMER, THEN THEY MUST BE OF THE PUSH-BUTTON TYPE OR OTHER APPROVED

DISPENSER WHERE THE CUP IS NOT USED IN THE ACTUATION OF THE DISPENSERS

### CLOTHING CHANGE ROOMS/AREA:

SHOULD BE PROVIDED AT THE SELF-SERVICE AREAS.

A SEPARATE CHANGE ROOM FOR EACH SEX, OF AT LEAST TWENTY SQUARE FEET IN FLOOR SURFACE AREA, SEPARATE FROM TOILETS, FOOD STORAGE OR FOOD PREPARATIOON AREAS IS REQUIRED WHERE THERE ARE TEN OR MORE EMPLOYEES PER

SHIFT. ADDITIONALLY, SEPARATE CHANGE ROOMS ARE REQUIRED WHEN EMPLOYEES
CHANGE FROM STREET CLOTHES INTO A UNIFORM OR WORK CLOTHING PROVIDED BY THE ESTABLISMENT, AND STORE THEIR OUTER GARMENTS ON THE PREMISES.
EXTERIOR, ENTRY, EXIT, AND CARGO DOORS:
ALL EXTERIOR DOORS OF A FACILITY ARE TO OPEN OUTWARD AND ARE TO BE

### LICHTING

SELF-CLOSING.

1. A MINIMUM OF TWENTY (20) FOOT CANDLES OF LIGHT, AS MEASURED THIRTY (30)
INCHES ABOVE THE FLOOR IS NECESSARY IN FOOD PREPARATION AREAS DISHWASHING
AREAS AND THE GLASS WASHING AREAS OF BARS (EXCEPT WHERE ALCOHOLIC BEVERAGES ARE SERVED).

2. A MINIMUM OF (10) FOOT-CANDLES OF LIGHT IS NECESSARY IF FOOD AND UTENSIL STORAGE ROOMS, BAR WASHING, REFRIGERATION STORAGE SPACES, TOILET ROOMS AND DRESSING ROOMS

AND DRESSING ROOMS.
3. SHATTER SHIELDS WILL BE PROVIDED FOR ALL LIGHTS ABOVE FOOD PREPARATION,
WORK, AND STORAGE AREAS.

4. A MINIMUM OFF 10 FOOT CANDLES OF LIGHT MEASURED 30" OFF FLOOR IS PROVIDED IN WALK, IN REFRIGERATED STORAGE AND DRY STORAGE ROOMS AND AT LEAST 20 FOOT CANDLES IS PROVIDED WHERE FOOD IS PROVIDED CONSUMER SELF SERVICE, WHERE FRESH PRODUCE OR PREPACK AGED FOODS ARE SOLD OR OFFERED FOR CONSUMPTION, INSIDE EQUIPMENT SUCH AS REACH IN AND UNDER COUNTER REFRIGERATORS, IN AREAS USED FOR HAND WASHING, EQUIPMENT AND UTENSIL STORAGE, AND IT TOILET ROOMS.

5. A MINIMUM OF 50 FOOT CANDLES OF LIGHT MEASURED 30" OFF FLOOR IS

PROVIDED
WHEN WORKING WITH FOOD OR WORKING WITH UTENSILS OR EQUIPMENT SUCH AS KNIVES, SUCERS, GRINDERS, OR SAWS WHERE EMPLOYEE SAFETY IS A FACTOR AND IN

ALL AREAS DURING PERIODS OF CLEANING.
6. SHATTER SHIELDS FOR ALL LIGHTS ABOVE FOOD PREPARATION, WORK, AND STORAGE AREAS WILL BE PROVIDED.

### /ENTILATION:

1. A MINIMUM OF TWELVE (12) AIR CHANGES PER HOUR IS NEEDED IN ALL TOILET ROOMS, JANITOR CLOSETS WITH MOP SINKS, ANTEROOMS LEADING TO TOILET ROOMS, AND DRESSING ROOMS. THE RATING OF EXHAUST FAN, EXPRESSED IN CUBIC FEET PER

PER
THIS VENTILATION. THE LIGHT SWITCH FOR THE ROOM SHOULD ACITVATED
EXHAUST
FANS IN THESE AREAS. MECHANICAL EXHAUST FANS ARE TO EXHAOUST ONLY TO

OUTSIDE AIR. DEAD SPACE EXHAUSTING IS NOT PERMITTED.

2. AN ACCEPTABLE ALTERNATIVE METHOD OF VENTILATION FOR TOILETS, TOILET ANTEROOMS, AND DRESSING ROOMS MAY BE A SCREENED WINDOW OPENING OF AT LEAST THREE (3) SQUARE FEET IN AREA, ONE-HALF OF WHICH IS OPEN AREA.

3. DUCTLESS FANS ARE NOT APPROVED FOR VENTILATION USE.

4. ANY OPENABLE WINDOWS VENT OPENINGS OR OTHER SIMILAR OPENINGS MUST

PROVIDED WITH TIGHT FITTING SCREENS OF MINIMUM 16 MESH TO THE INCH.

5. ALL EXTERIOR DOORS OPEN OUTWARD AND APE SELF-CLOSING AND TIGHT FITTING.

6. DELIVERY DOORS TO HAVE AIR CURTAIN FANS THAT SPAN THE WIDTH OVER THE DOOR, THE FAN MUST ACTIVATE VIA A MICROSWITCH PROVIDING A MINIMUM VELOCITY

OF 1600 FPM MEASURED 3 FEET ABOVE THE GROUND.
7. ADEQUATE VENTILATION IS TO BE PROVIDED TO ALL TOILETS ROOMS, JANITOR CLOSETS WITH MOP SINS, AND INDOOR TRASH ROOMS AND IN DRESSING/CHANGE ROOM(S).

### EQUIPMENT:

1. ALL NEW AND REPLACEMENT EQUIPMENT SHALL MEET OR BE EQUIVALENT TO APPLICABLE NSF INTERNATIONAL STANDARDS.
 2. ALL EQUIPMENT SHALL BE PLACED ON MINIMUM SIX INCH HIGH, NSF INTERNATIONAL

TYPE METAL LEGS, OR COMPLETELY SEALED IN POSITION ON A FOUR INCH HIGH.

TYPE METAL LEGS, OR COMPLETELY SEALED IN POSITION ON A FOUR INCH HIGH CONTINUOUSLY COVED BASE OR CONCRETE CURB, OR ON APPROVED CASTERS, OR CANTILEVERED FROM THE WALL IN AN APPROVED MANNER.

3. SHELVING OVER WET AREAS (SINK, MOP, ETC) AND FOOD PREP SURFACES WILL BE METAL.

### BACKFLOW PREVENTION:

1. ANY TYPE OF DRAIN DISPENSING INTO A FLOOR SINK REQUIRES A LEGAL AIR GAP SEPARATION OF NO LESS THAN ONE INCH MEASURED VERTICALLY FROM THE END OF THE DISCHARGE PIPE TO THE OVERFLOW RIM OF THE FLOOR SINK AND/OR AN AIR GAP

SEPARATION WHICH IS TWICE THE DIAMETER OF THE DISCHARGE PIPE, WHICHEVER IS GREATER.

2. SUBMERGED IN ETS REQUIRED, BACKELOW PREVENTION DEVICES INSTALLED.

2. SUBMERGED INLETS REQUIRED BACKFLOW PREVENTION DEVICES INSTALLED CONSISTENT WITH THE REQUIREMENTS OF THE LOCAL PLUMBING INSPECTOR.
3. APPROVED BACK FLOW PREVENTION DEVICES SHALL BE PROPERLY INSTALLED UPSTREAM ANY POTENTIAL HAZARD BETWEEN THE POTABLE WATER SUPPLY AND A SOURCE OF CONTAMINATION, HOSES SHALL NOT BE ATTACHED TO A FAUCET OR HOSE

BIBB UNLESS AN APPROVED BACKFLOW PREVENTERS IS PROVIDED.

4. WATER SUPPLY TO CARBONATORS SHALL BE PROTECTED BY AN APPROVED REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTED, THE RELIEF VALVE SHALL DRAIN INDIRECTLY TO SEWER WITH A LEGAL AIR GAP.M

### GREASE TRAPS/INTERCEPTORS-SEWAGE DISPOSAL:

1.GREASE TRAPS (LARGE VOLUME TANK) ARE TO BE INSTALLED OUTSIDE OF THE FOOD ESTABLISHMENT. THESE LARGE VOLUME TANKS ARE INSTALLED IN THE GROUND.

2.GREASE TRAPS (SMALL VOLUME TANK) SHALL BE INSTALLED OUTSIDE OF A FOOD ESTABLISHMENT (WHEREVER POSSIBLE) IN ACCORDANCE TO WITH PLUMBING CODES.

3.GREASE TRAP TO BE LOCATED OUTSIDE THE FOOD SERVICE ACTIVITY AREA, FLUSH

WITH THE FINISHED FLOOR WHEN INDOORS LOCAL WASTE WATER DISTRICT OR BUILDING DEPARTMENT TO BE CONTACTED FOR GREASE REMOVAL REQUIREMENTS

### ENVIRONMENTAL HEALTH NOTES

THE FOLLOWING ENVIRONMENTAL HEALTH NOTES ARE TO BE PLACED ON YOUR PLANS TO ASSIST IN PROVIDING CLEAR DIRECTION BETWEEN THOSE INVOLVED IN THE ACTUAL CONSTRUCTION OF A FOOD FACILITY INCLUDING CONTRACTORS AND ENVIRONMENTAL HEALTH SPECIALISTS. THESE NOTES WILL ENCOMPASS MOST FOOD FACILITIES BUT ARE NOT MEANT TO BE COMPREHENSIVE FOR ALL FOOD FACILITIES OR SITUATIONS:

1.A CONCRETE SLAB IS PROVIDED FOR TRASH, GARBAGE, AND GREASE CONTAINER. IF WALLS ENCLOSE AREA, THE INTERIOR WALL SURFACES WILL BE SMOOTH, SEALED AND WASHABLE (E.G., PLASTERED SMOOTH AND PAINTED, ETC.).

2. ALL FOOD-RELATED AND UTENSIL-RELATED EQUIPMENT SHALL MEET OR BE EQUIVALENT TO SANITATION STANDARDS ESTABLISHED BY AN AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) ACCREDITED PROGRAM.

3. ALL FLOOR MOUNTED EQUIPMENT WILL BE INSTALLED ON MINIMUM 6" SANITARY LEGS, CASTORS, OR COMPLETELY SEALED IN POSITION ON A 4 " HIGH CURB WITH CONTINUOUSLY COVED BASE. COUNTERTOP EQUIPMENT WILL BE ON 4-INCH SANITARY LEGS OR SEALED TO THE COUNTER UNLESS READILY MOVABLE.

4. IF SOFT DRINK, ICE OR OTHER DISPENSERS ARE SELF-SERVICE, OR IF REFILLS ARE PROVIDED THEY MUST BE PUSH BUTTON TYPES, OR LEVER TYPES WHERE THE LEVER CONTACTS THE CONTAINER AT LEAST ONE INCH BELOW THE RIM.

5. ANY OPENABLE WINDOWS VENT OPENINGS OR OTHER SIMILAR OPENINGS MUST BE PROVIDED WITH TIGHT FITTING SCREENS OF MINIMUM 16-MESH TO THE INCH. WINDOWS TO BE FIXED AT FOOD PREP, UTENSIL-WASHING, OPEN FOOD AND UTENSIL

STORAGE AREAS.
6. ALL EXTERIOR DOORS OPEN OUTWARD AND ARE SELF-CLOSING AND TIGHT FITTING.
7. BI-FOLD, FRENCH, ACCORDION STYLE AND ROLL-UP DOORS CANNOT OPEN INTO THE FOOD PREP, UTENSIL WASHING OR UNPACKAGED FOOD SERVICE AREAS.
8. TOILET ROOM AND DRESSING ROOM DOORS MUST BE SELF-CLOSING, TIGHT FITTING.
9. DELIVERY DOORS TO HAVE AIR CURTAIN FANS THAT SPAN THE WIDTH OVER THE DOOR. THE FAN MUST ACTIVATE VIA A MICROSWITCH PROVIDING A MINIMUM VELOCITY OF 1600 FPM MEASURED 3 FEET ABOVE THE GROUND.
10. A MINIMUM OF 10 FOOT-CANDLES OF LIGHT MEASURED 30" OFF FLOOR IS

PROVIDED IN WALK-IN REFRIGERATED STORAGE AND DRY STORAGE ROOMS AND AT LEAST 20-FOOT CANDLES IS PROVIDED WHERE FOOD IS PROVIDED FOR CONSUMER SELF-SERVICE, WHERE FRESH PRODUCE OR PREPACKAGED FOODS ARE SOLD OR OFFERED FOR CONSUMPTION; INSIDE EQUIPMENT SUCH AS REACH-IN AND UNDER-COUNTER REFRIGERATORS; IN AREAS USED FOR HANDWASHING, WAREWASHING, EQUIPMENT AND UTENSIL STORAGE, AND IN TOILET ROOMS.

11. A MINIMUM OF 50 FOOT-CANDLES OF LIGHT MEASURED 30" OFF FLOOR IS PROVIDED WHEN WORKING WITH FOOD OR WORKING WITH UTENSILS OR EQUIPMENT SUCH AS KNIVES, SLICERS, GRINDERS, OR SAWS WHERE EMPLOYEE SAFETY IS A FACTOR AND IN ALL AREAS DURING PERIODS OF CLEANING.

12. SHATTERSHIELDS FOR ALL LIGHTS ABOVE FOOD PREPARATION, WORK, AND STORAGE AREAS WILL BE PROVIDED.

13. ALL WAREWASHING SINKS TO HAVE 3 COMPARTMENTS THAT ARE A MINIMUM SIZE OF AT LEAST 18"X18"X12" DEEP (OR 16"X20"X12" DEEP) WITH A MINIMUM 18" DRAINBOARD AT EACH END. IF AGAINST A WALL, IT MUST HAVE AN 8" INTEGRAL BACKSPLASH. HOWEVER, IT MUST BE CAPABLE OF ACCOMMODATING THE LARGEST UTENSIL TO BE WASHED. A WAREWASHING MACHINE DOES NOT SUBSTITUTE FOR THE SINK REQUIREMENT.

14. SINKS TO HAVE SPOUT(S) CAPABLE OF REACHING EACH COMPARTMENT.

15. FOOD PREP SINK COMPARTMENT(S) TO BE AT LEAST 18"X18"X12" DEEP (OR 16"X20"X12" DEEP) WITH A MINIMUM 18" DRAINBOARD. SEPARATE FOOD PREP SINKS TO BE PROVIDED FOR MEATS AND PRODUCE.

16. THE 3 OR 4 COMPARTMENT BAR SINK TO BE AT LEAST 12"X12"X10" DEEP (OR 10"X14"X10" DEEP) WITH A MINIMUM 18" DRAINBOARD AT EACH END.

17. A SEPARATE WET WASTE DUMP FIXTURE SHALL BE PROVIDED FOR DISPOSAL OF DRINK OR WASTE ICE OR COFFEE WASTE.

18. EACH HANDWASHING SINK MUST HAVE PERMANENTLY MOUNTED SINGLE-SERVICE SOAP AND PAPER TOWEL DISPENSERS.

19. THE HOT WATER HEATER WILL BE A COMMERCIAL TYPE CAPABLE OF CONSTANTLY SUPPLYING HOT WATER AT A TEMPERATURE OF 120°F TO ALL SINKS. IN SIZING THE WATER HEATER. THE PEAK HOURLY DEMAND FOR ALL SINKS, ETC., ARE ADDED

WATER HEATER, THE PEAK HOURLY DEMAND FOR ALL SINKS, ETC., ARE ADDED TOGETHER TO DETERMINE THE MINIMUM REQUIRED RECOVERY RATE.

20. ALL LAVATORIES OR HAND SINKS WILL HAVE A COMBINATION FAUCET OR PREMIXING FAUCET CAPABLE OF SUPPLYING WATER TEMPERED TO 100°F.

SELF-CLOSING OR METERED FAUCET TO PROVIDE AT LEAST 15 SECONDS OF WATER WITHOUT REACTIVATION.

21. ALL PLUMBING, ELECTRICAL AND GAS LINES SHALL BE CONCEALED WITHIN THE BUILDING STRUCTURE TO AS GREAT AN EXTENT AS POSSIBLE. ALL EXPOSED CONDUITS, PLUMBING, ETC. SHALL BE INSTALLED AT LEAST 6" OFF FLOOR AND 3/4" FROM WALLS USING STANDOFF BRACKETS.
22. CONDUITS, PLUMBING OR PIPING CANNOT BE INSTALLED ACROSS ANY AISLE WAY, TRAFFIC AREA OR DOOR OPENING.

23. MULTIPLE RUNS OR CLUSTERS OF CONDUIT OR PIPELINES SHALL BE FURRED IN OR ENCASED IN AN APPROVED SEALED ENCLOSURE.
24. ALL LIQUID WASTE SHALL BE DRAINED BY MEANS OF INDIRECT WASTE PIPES INTO A FLOOR SINK. FLOOR SINKS ARE TO BE INSTALLED FLUSH WITH THE FINISHED FLOOR SURFACE AND HAVE SUITABLE EASILY REMOVABLE SAFETY COVER

GRATES.
25. FLOOR SINK TO BE 50% EXPOSED WHEN NO ACCESS IS PROVIDED FOR CLEANING OR BE IN LINE WITH THE FRONT FACE OF ELEVATED FREESTANDING EQUIPMENT.

26.APPROVED BACKFLOW PREVENTION DEVICES SHALL BE PROPERLY INSTALLED UPSTREAM OF ANY POTENTIAL HAZARD BETWEEN THE POTABLE WATER SUPPLY AND A SOURCE OF CONTAMINATION. HOSES SHALL NOT BE ATTACHED TO A FAUCET OR HOSE BIBB UNLESS AN APPROVED BACKFLOW PREVENTER IS PROVIDED.

27. WATER SUPPLY TO CARBONATORS SHALL BE PROTECTED BY AN APPROVED REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER. THE RELIEF VALVE SHALL DRAIN INDIRECTLY TO SEWER WITH A LEGAL AIR GAP.

28. FOR CLEANING FLOOR MATS, THE JANITORIAL SINK TO BE A MINIMUM 24" BY 36" FLOOR-MOUNTED TYPE. MOPS SHALL BE PLACED IN A POSITION THAT ALLOWS THEM TO AIR-DRY WITHOUT SOILING WALLS, EQUIPMENT, OR SUPPLIES.

29. THE JANITORIAL SINK FAUCET WILL HAVE A THREADED OUTER LIP FOR HOSE

ATTACHMENT AND AN APPROVED BACKFLOW PREVENTION DEVICE. NO CHEMICAL

DISPENSING SYSTEMS OR SHUTOFF VALVES TO BE ATTACHED TO MOP SINK FAUCET OUTLET (UNLESS A "SIDEKICK" PLUMBING DEVICE IS INSTALLED).

30. NO CONDENSATE OR WASTEWATER INCLUDING HVAC WILL DRAIN INTO THE JANITORIAL SINK.

31. GREASE TRAP TO BE LOCATED OUTSIDE THE FOOD SERVICE ACTIVITY AREA, FLUSH WITH THE FINISHED FLOOR WHEN INDOORS. LOCAL WASTEWATER DISTRICT OR BUILDING DEPARTMENT TO BE CONTACTED FOR GREASE REMOVAL REQUIREMENTS.

32. FLOOR DRAINS SHALL BE INSTALLED IN FLOORS THAT ARE WATER-FLUSHED FOR CLEANING AND IN AREAS WHERE PRESSURE SPRAY METHODS FOR CLEANING EQUIPMENT ARE USED, IN RESTROOMS, JANITORIAL ROOMS, SCULLERIES, AND AT

BARS WITH WAREWASHING.
FLOOR SURFACES IN AREAS PURSUANT TO THIS SHALL BE SLOPED 1:50 TO THE FLOOR DRAINS.
33. ADEQUATE VENTILATION IS TO BE PROVIDED TO ALL TOILET ROOMS. JANITOR

CLOSETS WITH MOP SINKS, AND INDOOR TRASH ROOMS AND IN DRESSING/CHANGE

ROOM(S).

34. THE FLOOR FINISH WILL HAVE A SMOOTH SURFACE UNDER ALL EQUIPMENT AND WALKWAYS WILL HAVE A LIGHT TEXTURE ONLY.

35. THE PAINT USED ON WALLS AND CEILINGS OF ALL KITCHEN, FOOD PREPARATION, WORK, AND STORAGE AREAS WILL BE A GLOSS OR SEMI-GLOSS ENAMEL. FINISH MATERIAL SHALL BE A LIGHT COLOR IN FOOD PREP AREAS FOR EASY CLEANING.

36. PRIOR TO INSTALLATION, SAMPLES OF FINISHES TO BE SUBMITTED TO ENVIRONMENTAL HEALTH FOR APPROVAL AS NEEDED.

37. COLD STORAGE ROOMS SHALL BE PROVIDED WITH A SECTION OF SHELVING

INSTALLED TO HOLD SHALLOW COOL DOWN PANS -NOT TO EXCEED 4" IN HEIGHT.
SPACE BETWEEN SHELVING TO BE AT LEAST 8" HIGH.
38. BACKUP DRY STORAGE SHELVING SHALL BE A MINIMUM OF 96 LINEAR FEET
(MEASURED WITH TIERS) OR 25% OF KITCHEN, FOOD PREP, AND WORK AREAS,
WHICHEVER IS GREATER. SHELVING SHALL BE AT LEAST 18 INCHES DEEP AND START
A MINIMUM SIX INCHES OFF THE FLOOR SURFACE.
39. SHELVING OVER WET AREAS (SINKS, MOP SINKS ETC.) AND FOOD PREP SURFACES

WILL BE METAL. 40. ALL SEAMS, GAPS, OPENINGS TO BE PROPERLY SEALED. BASECAMP CONSTRUCTION CO.

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THE ESTABLISHMENT MUST CONFORM TO THE APPROVED PLANS. ANY CHANGES SHOULD BE RECHECKED BY THE PLAN CHECKER AT THE COUNTY OF SAN DIEGO ENVIRONMENTAL HEALTH

2. THERE MUST BE PROOF THAT THE BUILDING DEPT. AND FIRE DEPT. HAVE APPROVED THE ESTABLISHMENT ON SITE

3. UTILITIES (GAS, WATER, ELECTRICITY) MUST BE PROVIDED AT THE TIME OF INSPECTION

4. APPLICATION FOR A HEALTH PERMIT MUST HAVE BEEN MADE BEFORE FINAL APPROVAL TO OPEN5. TOTAL SQUARE FOOTAGE OF THE ESTABLISHMENT IS 453 SQ. FT.

6. THE ESTABLISHMENT IS CONNECTED TO A MUNICIPAL SEWAGE SYSTEM

7. TYPE OF FOOD FACILITY: \_\_\_\_ 100% PRE-PACKAGED \_\_X \_\_ 100% SINGLE SERVICE \_\_\_\_ MULTI-USE

8. ALCOHOLIC BEVERAGES WILL BE CONSUMED IN THE PREMISES: \_\_\_YES \_X\_NO

9. ALL EQUIPMENT AND INSTALLATION TO MEET THE NATIONAL SANITATION FOUNDATION

REQUIREMENTS (NSF) STANDARDS OR EQUIVALENT

10. FIXED, SINGE SERVICE TOWEL OR HOT AIR BLOWERS AND SOAP DISPENSERS TO BE PROVIDED ADJACENT TO ALL HAND SINKS

11. ALL LAVATORIES OR HAND SINKS TO HAVE A COMBINATION FAUCET OR PRE-MIXING FAUCET CAPABLE OF SUPPLYING WARM WATER FOR A MINIMUM OF 10 SECONDS

12. JANITORIAL SINK FAUCETS TO BE APPROVED WITH AN APPROVED BACKFLOW PREVENTION DEVICE

13. COMMERCIAL WATER HEATER TO BE PROVIDED WHICH IS CAPABLE OF CONSTANTLY SUPPLYING HOT WATER AT A TEMPERATURE OF AT LEAST 120 DEGREES F TO ALL SINKS, HAND LAVATORIES AND OTHER CLEANUP FACILITIES

### **GENERAL NOTES**

WALL AND CEILING MATERIALS SHALL BE CLASSIFIED IN ACCORDANCE WITH ASTM E 84 OR UL 723.

ALL FOOD-RELATED AND UTENSIL-RELATED EQUIPMENT SHALL MEET OR BE EQUIVALENT TO SANITATION STANDARDS ESTABLISHED BY AN AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) ACCREDITED PROGRAM.

EXISTING GREASE TRAP WILL BE CLEANED ONCE A MONTH BY A SPECIALIZED COMPANY

EXISTING COMMUNAL RESTROOMS SERVES EMPLOYEES AND CONSUMERS.

NOTE: EXIT SIGNS SHALL BE INTERNALLY OR EXTERNALLY ILLUMINATED AT ALL TIMES AND SHALL BE CONNECTED TO AN EMERGENCY POWER SYSTEM (BATTERIES, UNIT EQUIPMENT OR AN ON-SITE GENERATOR) THAT WILL AUTOMATICALLY ILLUMINATE THE EXIT SIGNS FOR A DURATION OF NOT LESS THAN 90 MINUTES.

DOOR WILL MAINTAIN 'UNLOCK' POSITION DURING BUSINESS HOURS

ACCESS ONLY FOR EMPLOYEES

ONE INCH AIR GAP TO FLOOR SINK FROM INDIRECT DISCHARGE OF 3 COMP SINK, PREP SINK AND WATER HEATER

FRONT COUNTER (CASHIER AND DELIVERY AREA) COMPLIES WITH ADA STANDARDS

PARTITION WALL 2X6" HIGH MIN. ANCHORED TO WALL AND CEILING COVERED WITH FRP PANEL.

### **GENERAL CONSTRUCTION NOTES**

- ALL CONSTRUCTION AND MATERIALS SHALL BE AS SPECIFIED AND IN ACCORDANCE WITH ALL APPLICABLE CODES, ORDINANCES, LAWS PERMITS AND THE CONTRACT DOCUMENTS.
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCURATE PLACEMENT OF ALL NEW CONSTRUCTION ON THE SITE.
- 3. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE STARTING WORK. SHOULD A DESCREPANCY APPEAR IN THE CONTRACT DOCUMENTS, OR BETWEEN THE CONTRACT DOCUMENTS AND EXISTING CONDITIONS, NOTIFY THE ARCHITECT AT ONCE FOR INSTRUCTIONHOW TO PROCEED.
- 4. SHOULD A CONFLICT OCCUR IN OR BETWEEN DRAWINGS AND SPECIFICATIONS, THE SPECIFICATIONS SHALL TAKE PRECEDENCE, UNLESS A WRITTEN DECISION FROM ARCHITECT HIBEEN OBTAINED WHICH DESCRIBES A CLARIFICATION OR ALTERNATE METHOD AND/OR MATERIALS.
- 5. THE CONTRACTOR SHALL CONFINE HIS OPERATIONS ON THE SITE TO AREAS PERMITTED BY THOWNER.
- THE JOB SITE SHALL BE MAINTAINED IN A CLEAN, ORDERLY CONDITION FREE OF DEBRIS AND LITTER, AND SHALL NOT BE UNREASONABLY ENCUMBERED WITH ANY MATERIALS OR EQUIPMENT. EACH SUBCONTRACTOR IMMEDIATELY UPON COMPLETION OF EACH PHASE OF HIS WORK SHALL REMOVE ALL TRASH AND DEBRIS AS A RESULT OF THEIR OPERATION.
- 7. ALL MATERIAL STORED ON THE SITE SHALL BE PROPERLY STACKED AND PROTECTED TO PREVENT DAMAGE AND DETERIORATION. FAILURE TO PROTECT MATERIALS MAY BE FOR REJECTION OF WORK.
- 8. THE CONTRACTOR SHALL DO ALL CUTTING, FITTING, OR PATCHING OF HIS WORK THAT MAY BE REQUIRED TO MAKE ITS SEVERAL PARTS FIT TOGETHER PROPERLY AND SHALL NOT ENDANGER ANY OTHER WORK BY CUTTING OR OTHERWISE ALTERING THE TOTAL WORK OR AN PART OF IT. ALL PATCHING, REPAIRING, AND REPLACING OF MATERIALS AND SURFACES, CUT OR DAMAGED IN EXECUTION OF WORK, SHALL BE DONE WITH APPLICABLE MATERIALS SO THAT SURFACES REPLACED WILL, UPON COMPLETION, MATCH SURROUNDING SIMILIAR SURFACES.
- 9. NO PORTION OF THE WORK REQUIRING A SHOIP DRAWING OR SMAPLE SUBMISSION SHALL BE C OMMENCED UNTIL THE SUBMISSION HAS BEEN REVIEWED BY THE ARCHITECT. ALL SUCH PORTIONS OF THE WORK SHALL BE IN ACCORDANCE WITH CORRECTED SHOP DRAWINGS AND SAMPLES.
- 10. ALL DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALE.
- 11. NOTICE TO THE CONTRACTOR / BUILDER / INSTALLER / SUB-CONTRACTOR: BY USING THESE PERMITTED CONSTRUCTION DRAWINGS FOR CONSTRUCTION INSTALLATION OF THE WORK SPECIFIED HEREIN, YOU ACKNOWLEDGE AND ARE AWARE OF, THE REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS, YOU AGREE TO COMPLY WITH THE REQUIREMENTS OF THE CITY OF SAN DIEGO FOR SPECIAL INSPECTIONS, STURCTURAL OBSERVATIONS, CONSTRUCTION MATERIAL TESTING AND OFF=SITE FABRICATION OF BUILDING COMPONENTS, CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS AND, AS REQUIRED BY THE CALIFORNIA CONSTRUCTION CODES.
- 12. NO HAZARDOUS MATERIALS WILL BE STORED AND/OR USED WITHIN THE BUILDING WHICH EXCEED THE QUANTITIES LISTED IN IBC TABLES 307.1(1) AND 307.1(2).
- 13. ALL WORK SHALL CONFORM TO TITLE 24, CALIFORNIA CODES OF REGULATIONS (CCR).
- 14. TITLE 24 PARTS 1-5 SHALL BE KEPT ON SITE DURING CONSTRUCTION.
- 15. PROVIDE BUILDING ADDRESS NUMBERS VISIBLE AND LEGIBLE FROM THE STREET OR ROAD FRONTING THE PROPERTY PER FHPS POLICY P-00-6(UFC901.4)

### FIELD CONSTRUCTION NOTES

- 1. ROUGH PLUMBING INSPECTIONS TO BE CALLED OUT FOR PRIOR TO POURING CONCRETE. CALL FOR INSPECTION TO BE MADE 3.5 WORKING DAYS PRIOR TO REQUESTED DATE.
- 2. PRELIMINARY CONSTRUCTION INPSECTION TO BE CALLED FOR WHEN CONSTRUCTION IS APPROXIMATELY 75% TO 80% COMPLETED, WITH PLUMBING, ROUGH VENITLATION, AND ROUGH EQUIPMENT INSTALLED. CALL FOR INSPECTION TO BE MADE 3-5 WORKING DAYS IN ADVANCE. PRELIMINARY INSPECTION TO BE SCHEDULED FOR NO LESS THAN 2 WEEKS PRIOR TO THE PROPOSED HAPPENINGS OF THE FOOD ESTABLISHMENT.
- 3. CALL FOR FINAL INSPECTION UPON COMPLETION OF ALL CONSTRUCTION INCLUDING ALL FINISH WORK. FINAL INSPECTION TO BE PASSED BEFORE ISSUANCE OF A HEALTH PERMIT. CALL FOR INSPECTION TO BE MADE NO LESS THAN 3.5 WORKING DAYS PRIOR TO THE PROPOSED OPENING OF THE FOOD ESTABLISHMENT. FINAL CONSTRUCTION MUST BE APPROVED PRIOR TO OPENING FOR BUSINESS OR USE OR REMODELED AREAS.

### FIRE DEPARTMENT NOTES:

NEW AND EXISTING BUILDINGS SHALL HAVE APPROVED ADDRESS NUMBERS, BUILDING NUMBERS OR APPROVED BUILDING IDENTIFICATION PLACED IN A POSITION THAT IS PLAINLY LEGIBLE AND VISIBLE FROM THE STREET OR ROAD FRONTING THE PROPERTY. THESE NUMBERS SHALL CONSTRAST IN COLOR TO BACKGROUND. NUMBERS SHALL BE A MINIMUM OF 4" HIGH WITH MINIMUM STROKE WIDTH OF 1/2 INCH. CFC SECTION 505.1.

WHERE ACCESS TO OR WITHIN A STRUCTURE OR AN AREA IS RESTRICTED BECAUSE OF SECURED OPENINGS OR WHERE IMMEDIATE ACCESS IS NECESSARY FOR LIFE-SAVING OR FIRE-FIGHTING PURPOSES, THE FIRE CODE OFFICIAL IS AUTHORIZED TO REQUIRE A KEY BOX TO BE INSTALLED IN AN APPROVED LOCATION. THE KEY BOX SHALL BE OF AN APPROVED TYPE AND SHALL CONTAIN KEY(S) TO GAIN NECESSARY ACCESS AS REQUIRED BY THE FIRE CODE OFFICIAL. CFC SECTION 503.6

WHEN SPRINKLERS ARE REQUIRED SUBMIT FIRE SPRINKLER TENANT IMPROVEMENT PLANS TO FIRE DEPARTMENT FOR APPROVAL PRIOR TO INSTALLATION. CFC SECTION 901.4

PORTABLE FIRE EXTINGUISHER(S) SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH CFC 906, TABLE 906.3(1) AND CHAPTER 3, TITLE 19 CCR

THIS PROJECT WILL BE IN COMPLIANCE WITH THE CURRENT EDITIONS OF NFPA, CFC, TITLE 19 AND LOCAL CITY OF NATIONAL CITY MUNICIPAL CODES.

REQUESTS FOR INSPECTIONS SHALL BE MADE 48 HOURS IN ADVANCE. INSPECTIONS SHALL BE MADE ONCE WORK IS COMPLETE, UTILIZING APPROVED AND STAMED PLANS. CONTRACTOR SHALL BE REQUIRED TO HAVE THE APPROVED PLANS ON SITE PER CODE.



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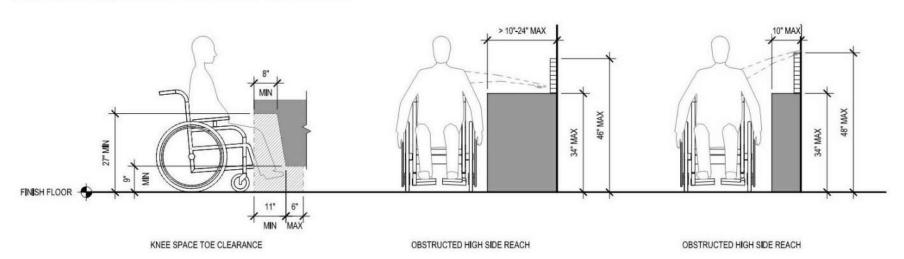
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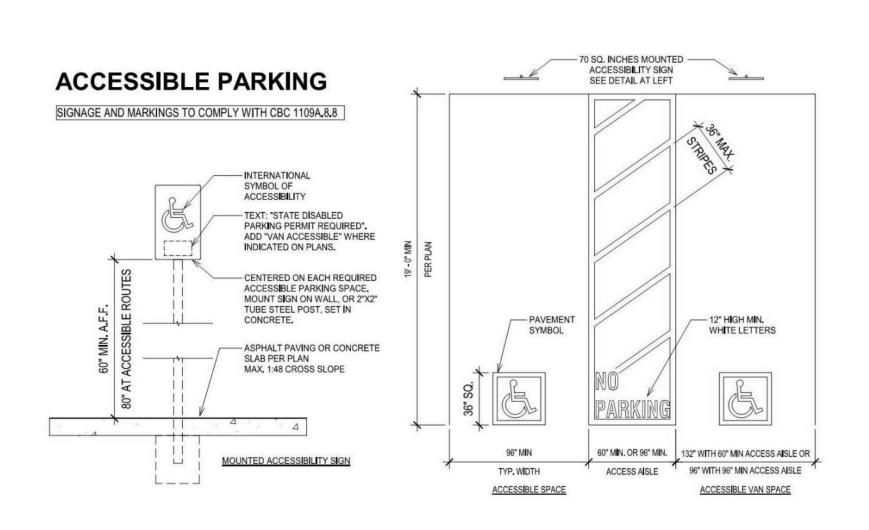
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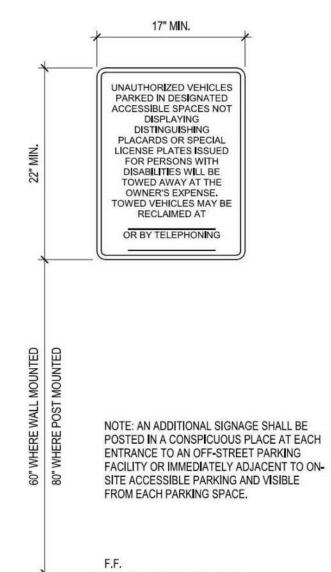
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### **ACCESSIBLE REACH RANGE**

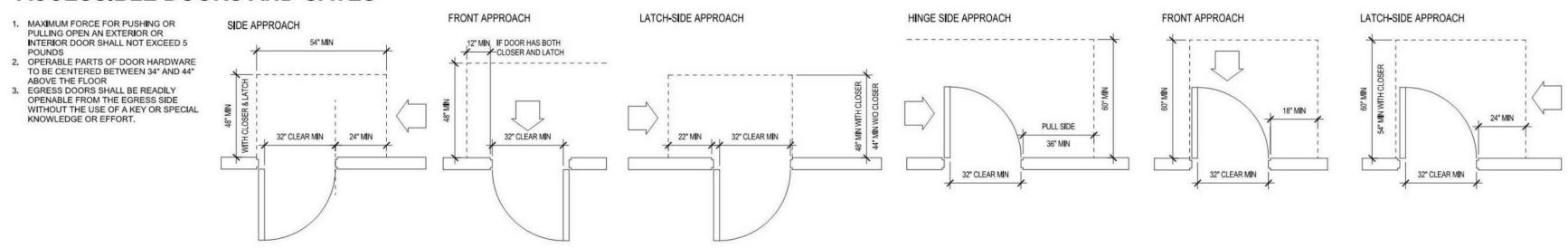


### ADDITIONAL PARKING SIGN

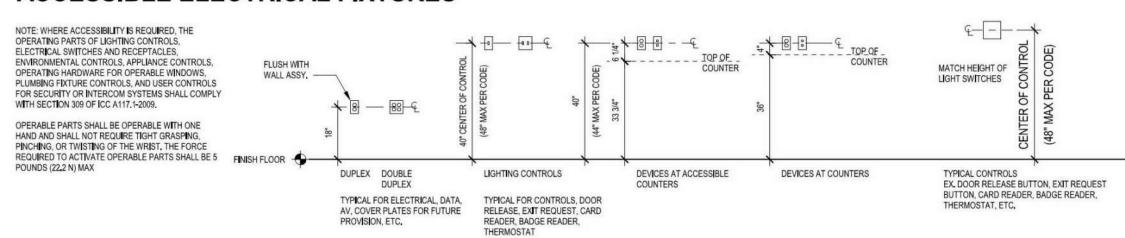


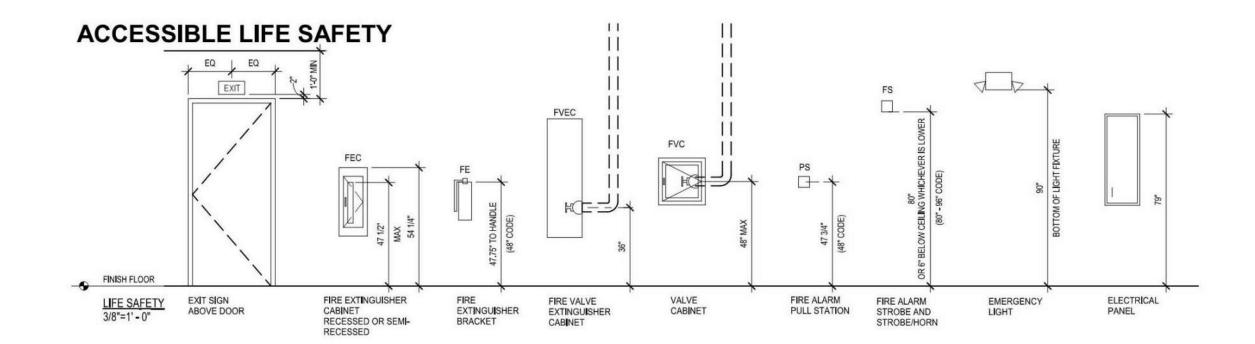


### **ACCESSIBLE DOORS AND GATES**



### **ACCESSIBLE ELECTRICAL FIXTURES**



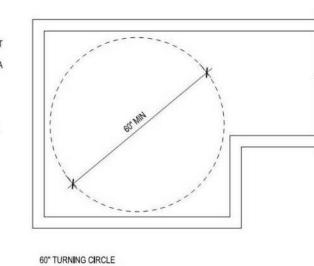


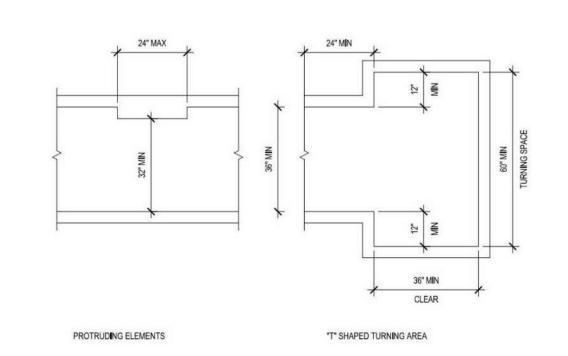
### **ACCESSIBLE ROUTES**

- ALL FINISHES MUST BE INCLUDED IN CALCULATING MINIMUM CLEARANCES. MEASURE FROM NEAREST FINISH SURFACE TO NEAREST FINISH SURFACE, (I.E. BASEBOARD TO BASEBOARD).

  ACCESSIBLE ROUTES OF TRAVEL MUST BE FREE OF OBSTRUCTION TO A WIDTH OF 36" MIN, BUT MAY BE REDUCED TO 32" MIN FOR A MAXIMUM
- WIDTH OF 36" MIN, BUT MAY BE REDUCED TO 32" MIN FOR A MAXIMUM DISTANCE OF 24".

  3. A WHEELCHAIR TURNING SPACE MUST BE PROVIDED CONSISTING OF EITHER A TURNING CIRCLE OR "T" SHAPED TURNING INTERSECTION WITHIN A 60" MIN SQUARE WITH ARMS AND BASE 36" WIDE MINIMUM. EACH ARM OF THE "T" SHALL BE CLEAR OF OBSTRUCTION 24" MINIMUM. KNEE AND TOE CLEARANCES ALLOWED ONLY AT THE END OF EITHER THE BASE OR ONE ARM.





BASECAMP CONSTRUCTION CO.

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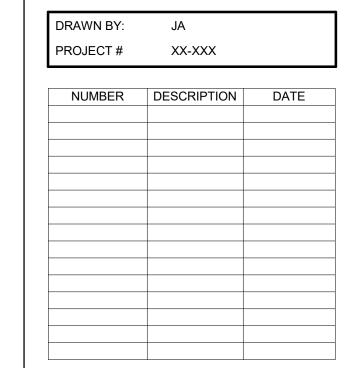
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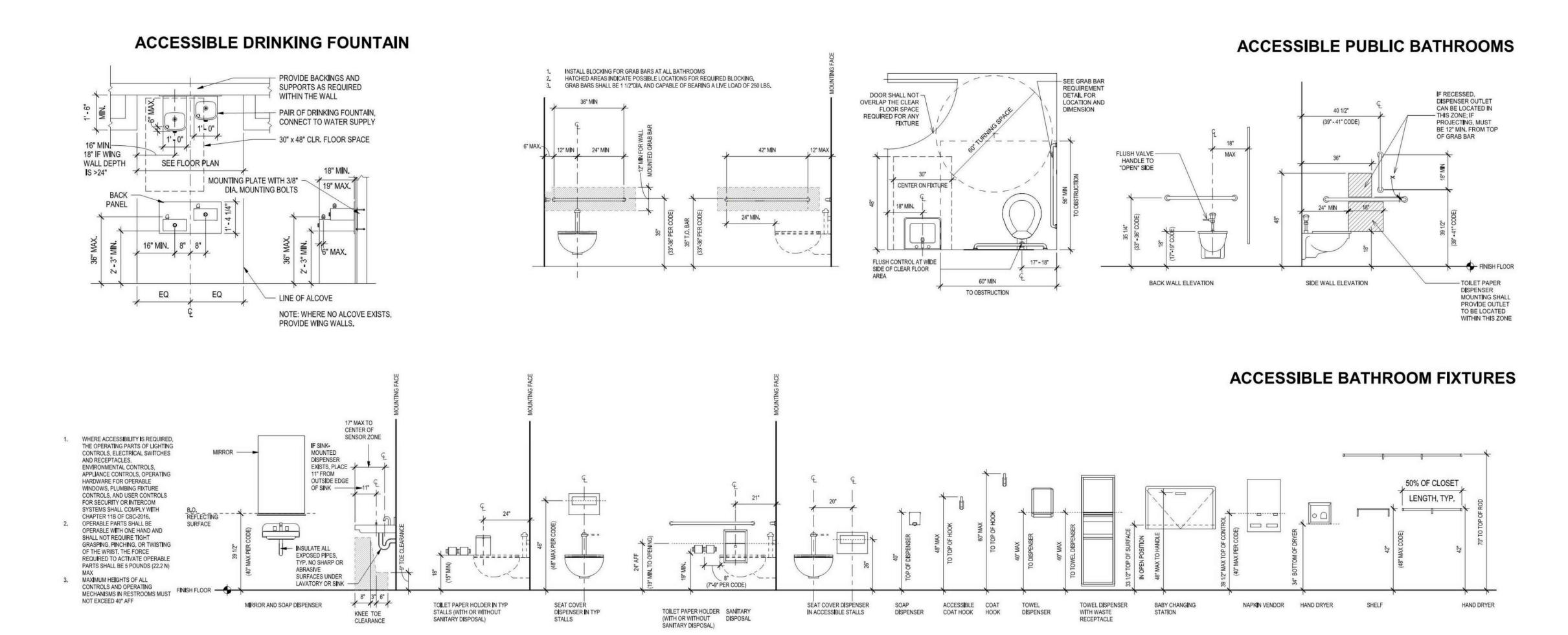
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EXTE	RIOR WALL ASSEMBLIES														ASSEMBLIES GENERAL NOTES
TAG & SECTION	DESCRIPTION LAYERS AND NOTES	AVAILIBLI FIRE RATIN	E ACOUSTIC	THERMAL RATING	TAG & SECTION	DESCRIPTION LAYERS AND NOTES	AVAILIBLE FIRE RATING	ACOUSTIC RATINGS	THERMAL RATING	TAG & SECTION	DESCRIPTION LAYERS AND NOTES	AVAILIBLE FIRE RATING	ACOUSTIC RATINGS	THERMAL RATING	<ol> <li>SEE BUILDING OCCUPANCY/EGRESS PLANS AND FLOOR PLANS FOR WALL FIRE RATING LOC</li> <li>USE MOISTURE RESISTANT GYPSUM ON ALL WALLS AND CEILINGS WHERE REQUIRED PER SPECIFICATIONS. (AREAS REQUIRED BUT NOT LIMITED TO: RESTROOMS, CUSTODIAL CLOSE KITCHENETTES).</li> <li>ALL EXTERIOR FINISHES TO MEET THICKNESSES OF TABLE 1405.2. ALUMINUM PREFINISHED</li> </ol>
W60	WOOD RAINSCREEN - 2X6 WOOD FRAMING [0-HR]	NOT RATE TYPE VB	<u>STC: 50</u>	<u>U-0.069</u>	W40	STUCCO - 2X6 WOOD FRAMING - SCC/GWB [0-HR]	NOT RATED VB	STC: N/A	<u>U-0.069</u>	W10-6	CONCRETE WALL 6" - STANDARD	3-HR TYPE IA		<u>U-0.74</u>	SHOWN IN DETAILS TO MEET THICKNESS OF ALUMINUM SIDING IN TABLE 1405.2 TO ENSURE WITH 1403.5 EXCEPTION 1.  4. ZIP CODE 91950 IS A CLIMATE ZONE 7. THEREFORE, CLASS I OR CLASS II VAPOR RETARDER
			CALIFORNIA OFFICE OF NOISE CONTROL 1.2.1.2.2.2			STUCCO ASSEMBLY  DRAINAGE LAYER & WRB SYSTEM  SHEATHING PER STRUCT.  2X6 WD FR PER STRUCT. W/ HIGH DENS. R-21 BATT INSUL.  5/8" TYPE 'X' GYP BOARD		TEST SOURCES	APPENDIX JA 4: TABLE 4.3.1: CELL A6 SEE MECH SHEETS		STRUCT. CONCRETE  NOTES:  1. CONTROL JOINTS, FORM TIE HOLES PER DRAWINGS WHEN INDICATED.  2. WP AND DRAINAGE MAT/COLLECTION AT RETAINING CONDITIONS  3. SEALER/COATINGS PER SPECIFICATIONS  4. THICKNESS PER STRUCTURAL		TEST SOURCES	APPENDIX JA 4: TABLE 4.3.6: CELL F3	PROVIDED AT INTERIOR FACE SIDE OF FRAME WALLS PER CBC 1405.3.1. PAINT WITH A PERI GREATER THAN 0.1 AND LESS THAN OR EQUAL TO 1.0. SEE 099000 PAINTING AND COATING 5. WRB AND DRAINAGE PLANE TO MEET NFPA 285 PER CBC 1403.5 6. PROVIDE FIREBLOCKING PER CBC 718.2. 7. WOOD ASSEMBLIES IN THE TYPE IIIA BUILDING. TO HAVE A MAXIMUM CONCEALED FREE AIR INSULATION VOLUME OF 160ft3. USE FIREBLOCKING PER CBC 718.2 AND DRAFTSTOPPING PLAND CBC 718.4 TO SUBDIVIDE VOLUMES GREATER THAN 160ft3.
	NOTES:  1. STUD SPACING PER STRUCT.  2. ADDITIONAL PRESSURE TREATED 2X2 PAINTED BLACK BETWEEN HAT CHANNEL AND WRB AT LEVEL T6 WHERE SINGLE PLY ROOFING IS RUNNING UP FACE OF WALL.					1. USE MOISTURE RESISTANT GYPSUM WHERE REQUIRED PER SPECIFICATIONS 2. STUD SPACING PER STRUCT. 3. SEE ELEVATIONS AND ENLARGED ELEVATIONS FOR STUCCO FINISH TYPES. 4. STUCCO ASSEMBLY TO BE MIN 7/8" EXCLUSIVE OF TEXTURE PER TABLE 1405.				W10-6A Int. EX	CONCRETE WALL 6" - ARCHITECTURAL  SAME AS ABOVE WITH EXPOSED FACES TO BE ARCH, FINISH QUALITY PER SPECIFICATIONS NOTES:	3-HR TYPE IA	TEST SOURCES	<u>U-0.74</u>	<ul> <li>A. IN TRUSS FLOOR AND ROOF ASSEMBLY AREAS FIREBLOCKING AND DRAFTSTOPPING TO WITH WITH SOLID MATERIALS, NOT MINERAL WOOL OR CELLULOSE DUE TO INSUFFICIEN SECURELY RETAINED IN PLACE (CBC 718.2.1.7).</li> <li>B. WHERE WOOD TRUSSES ARE NOT USED, FILLING JOIST/BAY CAVITIES WITH MINERAL WO 718.2.1 AND CBC 718.3.1 IS ACCEPTED.</li> </ul>
W61	WOOD RAINSCREEN - 2X6 WOOD FRAMING [1-HR]	1-HR VB	STC: 50	<u>U-0.069</u>	W40.6	STUCCO - 2X6 WOOD FRAMING - SCC/WD [0-HR]	NOT RATED VB	STC: N/A	<u>U-0.069</u>		CONTROL JOINTS, FORM TIE HOLES PER DRAWINGS     SEALED/COATINGS PER SPECIFICATIONS     THICKNESS PER STRUCTURAL	СВС 721.1(2) ПЕМ 4-1.1		APPENDIX JA 4: TABLE 4,3,6: CELL F3	<ol><li>SHEATHING PER STRUCT' IS SHOWN ONLY ON ONE SIDE OF THE ASSEMBLIES. SEE STRUCT WALL SPECIFICATIONS AND LOCATIONS WITH BOTH SIDES OF ASSEMBLY SHEATHED. WHEI IS SHOWN FOR PARITAL WALLS. PROVIDE AN EVEN FINISHED SURFACE BY ADDING SHEATH</li></ol>
			TEST SOURC			STUCCO ASSEMBLY DRAINAGE LAYER & WRB SYSTEM SHEATHING PER STRUCT.		TEST SOURCES	Ī	W10-8	CONCRETE WALL 8" - STANDARD	3-HR TYPE IA		<u>U-0.74</u>	SURFACE OF WALL AND ALIGNING WALLS.  9. SOME INTERIOR PARTITIONS INCLUDE PLYWOOD SHEAR LAYERS, REFER TO STRUCTURAL 10. LOW SLOPE SINGLE PLY TO HAVE MIN SRI VALUE OF 75.
		UL U305	CAL OFFICE O NOISE CONTROL 1,2,2,1,5,7	F APPENDIX JA 4: TABLE 4.3.1: CELL A6 SEE MECH SHEETS		2X6 WD FR PER STRUCT. SHEATHING PER STRUCT7/8" HAT CHANNEL METAL FRAMING - PT BLACK WOOD SIDING FOR RAIN SCREEN NOTES:  1. USE MOISTURE RESISTANT GYPSUM WHERE REQUIRED PER SPECIFICATIONS 2. STUD SPACING PER STRUCT.	S.		APPENDIX JA 4: TABLE 4.3.1: CELL A6 SEE MECH SHEETS	-	NOTES:  1. CONTROL JOINTS, FORM TIE HOLES PER DRAWINGS WHEN INDICATED.  2. WP AND DRAINAGE MAT/COLLECTION AT RETAINING CONDITIONS  3. SEALER/COATINGS PER SPECIFICATIONS  4. THICKNESS PER STRUCTURAL	CBC 721.1(2) ITEM 4-1.1	TEST SOURCES	APPENDIX JA 4: TABLE 4.3.6: CELL F3	11. ALL SINGLE PLY ROOFING TO HAVE A MIN. 1/4" PER FOOT SLOPE TO DRAIN IN ALL CONDITION
	<ol> <li>ADDITIONAL PRESSURE TREATED 2X2 PAINTED BLACK BETWEEN HAT CHANNEL AND WRB AT LEVEL T6 WHERE SINGLE PLY ROOFING IS RUNNING UP FACE OF WALL.</li> </ol>					SEE ELEVATIONS AND ENLARGED ELEVATIONS FOR STUCCO FINISH TYPES.     STUCCO ASSEMBLY TO BE MIN 7/8" EXCLUSIVE OF TEXTURE PER TABLE 1405.	2			W10-8A	CONCRETE WALL 8" - ARCHITECTURAL  SAME AS ABOVE WITH EXPOSED FACES TO BE	3-HR TYPE IA		<u>U-0.74</u>	
W62 r. Ext.	WOOD RAINSCREEN - 2X6 WOOD FRAMING [2-HR]	2-HR VB	STC: 50	<u>U-0.069</u>	W41	STUCCO - 2X6 WOOD FRAMING - SCC/GWB [1-HR]  STUCCO ASSEMBLY	1-HR TYPE IIIA. VB	STC: 50	<u>U-0.069</u>		ARCH. FINISH QUALITY PER SPECIFICATIONS NOTES:  1. CONTROL JOINTS, FORM TIE HOLES PER DRAWINGS 2. SEALED/COATINGS PER SPECIFICATIONS	CBC 721.1(2)	TEST SOURCES	APPENDIX JA 4: TABLE 4.3.6:	
		UL U371	CALIFORNIA	APPENDIX JA 4:		DRAINAGE LAYER & WRB SYSTEM  5/8" TYPE 'X' GLASS MAT FACED SHEATHING SHEATHING PER STRUCT.	UL U305	CALIFORNIA	APPENDIX JA 4:	W10-12	THICKNESS PER STRUCTURAL     CONCRETE WALL 12" - STANDARD	3-HR TYPE IA		CELL F3	
	——(2 LAYERS) (5/8") TYPE 'X' GLASS MAT FACED SHEATHING ——2X6 WD FR PER STRUCT. W/ R-21 MINERAL WOOL INSUL. ——(2 LAYERS) (5/8") TYPE 'X' GYPSUM BOARD		OFFICE OF NOISE CONTROL 1.2.1.2.2.2	TABLE 4.3.1: CELL A6 SEE MECH		———2X6 WD FR PER STRUCT. W/ HIGH DENS. R-21 BATT INSUL. ——5/8" TYPE 'X' GYP BOARD		OFFICE OF NOISE CONTROL 1.2.1.2.2.2	TABLE 4.3.1: CELL A6 SEE MECH	NT. EX	STRUCT. CONCRETE		TEST SOURCES	<u> </u>	
	NOTES: 1. STUD SPACING AND SHEARWALLS PER STRUCT. 2. ADDITIONAL PRESSURE TREATED 2X2 PAINTED BLACK BETWEEN HAT CHANNEL AND WRB AT LEVEL T6 WHERE SINGLE PLY ROOFING IS RUNNING UP FACE OF WALL.			SHEETS		NOTES:  1. USE MOISTURE RESISTANT GYPSUM WHERE REQUIRED PER SPECIFICATIONS 2. STUD SPACING PER STRUCT. 3. SEE ELEVATIONS AND ENLARGED ELEVATIONS FOR STUCCO FINISH TYPES. 4. STUCCO ASSEMBLY TO BE MIN 7/8" EXCLUSIVE OF TEXTURE PER TABLE 1405.			SHEETS	4	NOTES: 1. CONTROL JOINTS, FORM TIE HOLES PER DRAWINGS WHEN INDICATED. 2. WP AND DRAINAGE MAT/COLLECTION AT RETAINING CONDITIONS 3. SEALER/COATINGS PER SPECIFICATIONS 4. THICKNESS PER STRUCTURAL	CBC 721.1(2) ITEM 4-1.1		APPENDIX JA 4: TABLE 4,3,6: CELL F3	
W71	EXT GYP 2X6 WOOD FRAMING [1-HR]	1-HR TYPE IIIA	STC: 50	<u>U-0.069</u>	W41.4U	STUCCO - 2X4 WOOD FRAMING - SCC/SCC - UNINSULATED	1-HR TYPE IIIA, VB	STC: 50	<u>U-0.069</u>	W10-12A INT. EX	CONCRETE WALL 12" - ARCHITECTURAL  SAME AS ABOVE WITH EXPOSED FACES TO BE	3-HR TYPE IA		<u>U-0.74</u>	
EXT.	(5/8") TYPE 'X' EXTERIOR GYPSUM BOARDSHEATHING PER STRUCT	UL U305	TEST SOURC  CAL OFFICE O  NOISE		NT.	STUCCO ASSEMBLY  DRAINAGE LAYER & WRB SYSTEM  5/8" TYPE 'X' GLASS MAT FACED SHEATHING  2X4 WOOD STUD		CALIFORNIA OFFICE OF	APPENDIX JA 4: TABLE 4,3,1:		ARCH. FINISH QUALITY PER SPECIFICATIONS NOTES:  1. CONTROL JOINTS, FORM TIE HOLES PER DRAWINGS 2. SEALED/COATINGS PER SPECIFICATIONS 3. THICKNESS PER STRUCTURAL	СВС 721.1(2) ITEM 4-1.1	TEST SOURCES	APPENDIX JA 4: TABLE 4.3.6: CELL F3	
	——1/2" RESILIENT CHANNEL METAL FRAMING ——5/8" TYPE 'X' GYP BOARD		CONTROL 1.2.2.1.5.7	CELL A6 SEE MECH		5/8" TYPE 'X' GLASS MAT FACED SHEATHING		NOISE CONTROL 1.2.1.2.2.2	CELL A6 SEE MECH	W10-16	CONCRETE WALL 16" - STANDARD	3-HR TYPE IA		<u>U-0.74</u>	
	NOTES: 1. STUD SPACING PER STRUCT. 2. SHEATHING REQ. BOTH SIDES TO MAINTAIN ACOUSTIC RATING			SHEETS		NOTES:  1. USE MOISTURE RESISTANT GYPSUM WHERE REQUIRED PER SPECIFICATIONS 2. STUD SPACING PER STRUCT. 3. SEE ELEVATIONS AND ENLARGED ELEVATIONS FOR STUCCO FINISH TYPES. 4. STUCCO ASSEMBLY TO BE MIN 7/8" EXCLUSIVE OF TEXTURE PER TABLE 1405.	NG P		SHEETS	.11	NOTES:  1. CONTROL JOINTS, FORM TIE HOLES PER DRAWINGS WHEN INDICATED.  2. WP AND DRAINAGE MAT/COLLECTION AT RETAINING CONDITIONS	CBC 721.1(2) ITEM 4-1.1	TEST SOURCES	APPENDIX JA 4: TABLE 4,3,6: CELL F3	
W72	EXT GYP 2X6 WOOD FRAMING [2-HR]	2-HR TYPE IIIA	STC: 50	<u>U-0.069</u>	W42	STUCCO - 2X6 WOOD FRAMING - SCC/GWB [2-HR]	2-HR TYPE IIIA, VB	STC: 50	<u>U-0.069</u>		SEALER/COATINGS PER SPECIFICATIONS     THICKNESS PER STRUCTURAL				
T. EXT.	——(2 LAYERS) (5/8") TYPE 'X' EXTERIOR GYPSUM BOARD ——WRB	TTECHIA	TEST SOURC	ES	NT.	STUCCO ASSEMBLY  ——DRAINAGE LAYER & WRB SYSTEM ——5/8" TYPE 'X' GLASS MAT FACED SHEATHING		TEST SOURCES	<u>S</u>		T	T	ï		
	SHEATHING PER STRUCT.  2X6 WD FR PER STRUCT. W/ R-21 MINERAL WOOL INSUL.	UL U371	CALIFORNIA OFFICE OF NOISE CONTROL	APPENDIX JA 4: TABLE 4.3.1: CELL A6		2X6 WD FR PER STRUCT. W/ R-21 MINERAL WOOL INSUL. (2 LAYERS) (5/8") TYPE 'X' GYPSUM BOARD	UL U371	CALIFORNIA OFFICE OF NOISE CONTROL	APPENDIX JA 4: TABLE 4.3.1: CELL A6	W20-6	CMU 6" NOMINAL WALL - STACKED BOND	2-HR TYPE IA			
	(2 LAYERS) (5/8") TYPE 'X' GYPSUM BOARD  NOTES:		1.2.1.2.2.2	SEE MECH SHEETS	W42* - I	PROVIDE WRB SYSTEM AND EXTERIOR FINISH AT BOTH SIDES  NOTES:		1.2.1.2.2.2	SEE MECH SHEETS		CMU 6" STACKED BOND	CBC 721.1(2)	TEST SOURCES	NOT USED AS A PART OF	
	<ol> <li>STUD SPACING PER STRUCT.</li> <li>W72* INDICATES USING 2X8 AND 2X 4 STUDS PER DETAILS</li> </ol>					USE MOISTURE RESISTANT GYPSUM WHERE REQUIRED PER SPECIFICATIONS     STUD SPACING PER STRUCT.     SEE ELEVATIONS AND ENLARGED ELEVATIONS FOR STUCCO FINISH TYPES.     STUCCO ASSEMBLY TO BE MIN 7/8" EXCLUSIVE OF TEXTURE PER TABLE 1405.					NOTES:  1. SEALED/COATINGS PER SPECIFICATIONS  2. FULLY GROUTED PER SPECIFICATIONS AND STRUCTURAL  3. ALL JOINTS VISIBLE TO PUBLIC TO BE RAKED JOINTS	TIEW 3.1		ENVELOPE	
					W42+	STUCCO - 2X6 WOOD FRAMING - SCC/GWB - GWB AMMR [+2-HR]	2-HR TYPE IIIA	STC: 50	<u>U-0,069</u>	W20-8	CMU 8" NOMINAL WALL - STACKED BOND	2-HR TYPE IA		<u>U-0.69</u>	
						STUCCO ASSEMBLY  DRAINAGE LAYER & WRB SYSTEM  (2 LAYERS) (5/8") TYPE 'X' GLASS MAT FACED SHEATHING SHEATHING PER STRUCT.  2X6 WD FR PER STRUCT. W/ R-21 MINERAL WOOL INSUL.	UL U371	CALIFORNIA OFFICE OF NOISE CONTROL	APPENDIX JA 4: TABLE 4.3.1: CELL A6		NOTES:  1. SEALED/COATINGS PER SPECIFICATIONS 2. WP AND DRAINAGE MAT/COLLECTION AT RETAINING CONDITIONS 3. FULLY GROUTED PER SPECIFICATIONS AND STRUCTURAL	CBC 721.1(2) ITEM 3.1	TEST SOURCES	APPENDIX JA 4: TABLE 4,3,6: CELL F3	
						(2 LAYERS) (5/8") TYPE 'X' GYPSUM BOARD  NOTES:  1. USE MOISTURE RESISTANT GYPSUM WHERE REQUIRED PER SPECIFICATIONS 2. STUD SPACING PER STRUCT.	S.	1,2,1,2,2,2	SEE MECH SHEETS	W20-8C	4. ALL JOINTS VISIBLE TO PUBLIC TO BE RAKED JOINTS  CMU 8" NOMINAL WALL - WITH TILE	2-HR TYPE IA		<u>U-0.69</u>	
						<ol> <li>SEE ELEVATIONS AND ENLARGED ELEVATIONS FOR STUCCO FINISH TYPES.</li> <li>STUCCO ASSEMBLY TO BE MIN 7/8" EXCLUSIVE OF TEXTURE PER TABLE 1405.</li> <li>WHEN AGAINST SHAFT REMOVE (2 LAYERS) 15,9 MM TYPE 'X' GYPSUM BOARD</li> </ol>				INT, EX	. ——CMU 8" STACKED BOND —— TILE BY OTHERS O/ FLUID APPLIED WEATHER BARRIER		TEST SOURCES	<u></u>	
					W40-M	STUCCO - 6" METAL FRAMING	NOT RATED TYPE IIIA	STC: 50	<u>U-0.069</u>		NOTES:  1. SEALED/COATINGS PER SPECIFICATIONS 2. FULLY GROUTED PER SPECIFICATIONS AND STRUCTURAL	СВС 721.1(2) ПЕМ 3.1		APPENDIX JA 4: TABLE 4.3.5: CELL A10	
						STUCCO ASSEMBLY CEMENT BOARD DRAINABLE RIGID INSULATION (R-10 MIN)		TEST SOURCES	1		3. ALL JOINTS VISIBLE TO PUBLIC TO BE RAKED JOINTS				
						WRB 5/8" GLASS MAT GYPSUM SHEATHING. 6" METAL FRAMING W/ R-21 FIBERGLASS BATT		CALIFORNIA OFFICE OF NOISE CONTROL	APPENDIX JA 4: TABLE 4.3.1: CELL A6						
						5/8" TYPE 'X' GYP BOARD  NOTES:  1. USE MOISTURE RESISTANT GYPSUM WHERE REQUIRED PER SPECIFICATIONS 2. STUD SPACING PER STRUCT. 3. SEE ELEVATIONS AND ENLARGED ELEVATIONS FOR STUCCO FINISH TYPES, 4. STUCCO ASSEMBLY TO BE MIN 7/8" EXCLUSIVE OF TEXTURE PER TABLE 1405,		1.2.1.2.2.2	SEE MECH SHEETS						
					W40-MU	STUCCO - 6" METAL FRAMING UNINSULATED	NOT RATED TYPE IIIA	STC: 50	<u>U-0.069</u>						
						STUCCO ASSEMBLY  DRAINAGE LAYER & WRB SYSTEM  5/8" TYPE 'X' GYP BOARD		TEST SOURCES	1						
					-	————6" METAL FRAMING ————(2 LAYERS) (5/8") TYPE 'X' GYPSUM BOARD		CALIFORNIA OFFICE OF NOISE CONTROL 1.2.1.2.2.2	APPENDIX JA 4: TABLE 4.3.1: CELL A6						
						NOTES:  1. USE MOISTURE RESISTANT GYPSUM,  2. STUD SPACING PER STRUCT,  3. SEE ELEVATIONS AND ENLARGED ELEVATIONS FOR STUCCO FINISH TYPES,  4. STUCCO ASSEMBLY TO BE MIN 7/8" EXCLUSIVE OF TEXTURE PER TABLE 1405.	2		SHEETS						

### ASSEMBLIES GENERAL NOTES

- 1. SEE BUILDING OCCUPANCY/EGRESS PLANS AND FLOOR PLANS FOR WALL FIRE RATING LOCATIONS. USE MOISTURE RESISTANT GYPSUM ON ALL WALLS AND CEILINGS WHERE REQUIRED PER SPECIFICATIONS. (AREAS REQUIRED BUT NOT LIMITED TO: RESTROOMS, CUSTODIAL CLOSETS, BEHIND
- ALL EXTERIOR FINISHES TO MEET THICKNESSES OF TABLE 1405.2. ALUMINUM PREFINISHED FLASHING SHOWN IN DETAILS TO MEET THICKNESS OF ALUMINUM SIDING IN TABLE 1405.2 TO ENSURE COMPLIANCE
- WITH 1403.5 EXCEPTION 1. 4. ZIP CODE 91950 IS A CLIMATE ZONE 7. THEREFORE, CLASS I OR CLASS II VAPOR RETARDERS TO BE PROVIDED AT INTERIOR FACE SIDE OF FRAME WALLS PER CBC 1405.3.1. PAINT WITH A PERM RATING GREATER THAN 0.1 AND LESS THAN OR EQUAL TO 1.0. SEE 099000 PAINTING AND COATING SPECIFICATION.
- 5. WRB AND DRAINAGE PLANE TO MEET NFPA 285 PER CBC 1403.5 PROVIDE FIREBLOCKING PER CBC 718.2.
- 7. WOOD ASSEMBLIES IN THE TYPE IIIA BUILDING. TO HAVE A MAXIMUM CONCEALED FREE AIR AND/OR INSULATION VOLUME OF 160ft3. USE FIREBLOCKING PER CBC 718.2 AND DRAFTSTOPPING PER CBC 718.3
- AND CBC 718.4 TO SUBDIVIDE VOLUMES GREATER THAN 160ft3. A. IN TRUSS FLOOR AND ROOF ASSEMBLY AREAS FIREBLOCKING AND DRAFTSTOPPING TO BE CREATED WITH WITH SOLID MATERIALS, NOT MINERAL WOOL OR CELLULOSE DUE TO INSUFFICIENT MEANS TO BE
- SECURELY RETAINED IN PLACE (CBC 718.2.1.7). B. WHERE WOOD TRUSSES ARE NOT USED, FILLING JOIST/BAY CAVITIES WITH MINERAL WOOL PER CBC 718.2.1 AND CBC 718.3.1 IS ACCEPTED. 8. 'SHEATHING PER STRUCT' IS SHOWN ONLY ON ONE SIDE OF THE ASSEMBLIES. SEE STRUCT FOR SHEAR

WALL SPECIFICATIONS AND LOCATIONS WITH BOTH SIDES OF ASSEMBLY SHEATHED. WHERE SHEATHING

IS SHOWN FOR PARITAL WALLS. PROVIDE AN EVEN FINISHED SURFACE BY ADDING SHEATHING TO ENTIRE SURFACE OF WALL AND ALIGNING WALLS. 9. SOME INTERIOR PARTITIONS INCLUDE PLYWOOD SHEAR LAYERS, REFER TO STRUCTURAL FOR LOCATIONS 10. LOW SLOPE SINGLE PLY TO HAVE MIN SRI VALUE OF 75.



8th

National E8TH STREET & B A

Checked: \_\_\_\_ M|H Project No.:\_

**EXT. WALL** 

**ASSEMBLIES** 

A-012



DRAWN BY:	JA	
PROJECT#	XX-XXX	
NUMBER	DESCRIPTION	DAT
NOWIDER	DESCRIPTION	DAT

DRAWINGS PREPARED BY:

**EXTERIOR WALL ASSEMBLIES** 

**A0.4** 

\*REFERENCED EXTERIOR WALL ASSEMBLIES FROM ORIGINAL BUILDING PERMIT SET APPROVED UNDER PERMIT# 2019-8703\*

NTEF	IOR PARTITION ASSEMBL	IES												
TAG & SECTION	DESCRIPTION LAYERS AND NOTES	AVAILIBLE FIRE RATING	ACOUSTIC RATINGS	THERMAL RATING	TAG & SECTION	DESCRIPTION LAYERS AND NOTES	AVAILIBLE FIRE RATING	ACOUSTIC RATINGS	THERMAL RATING	TAG & SECTION	DESCRIPTION LAYERS AND NOTES	AVAILIBLE FIRE RATING	ACOUSTIC RATINGS	THERMAL RATING
Α	2X4 WOOD STUD WALL	NOT RATED	STC: 36		A1	2X4 WOOD STUD PARTITION WALL - NOT USED	1-HR	STC: 57		A2	2X4 WOOD STUD PARTITION WALL - NOT USED	2-HR	STC: 57	
	(1) LAYER 5/8" GWB O/  2X4 WOOD STUDS W/ ACOUSTICAL INSULATION O/  (1) LAYER 5/8" GWB  NOTES: 1, STUD SPACING PER STRUCT,		CALIFORNIA OFFICE OF NOISE CONTROL 1.2.1.1.5.10		•			CALIFORNIA OFFICE OF NOISE CONTROL 1.2.4.1.5.4			(2 LAYERS) (5/8") TYPE 'X' GYPSUM BOARD  2X4 WOOD STUD W/ ACOUSTICAL INSULATION  (2 LAYERS) (5/8") TYPE 'X' GYPSUM BOARD  NOTES:  1. STUD SPACING PER STRUCT.	UL U301	CALIFORNIA OFFICE OF NOISE CONTROL 1.2.4.1.5.4	
	2. SHEAR/SHEATHING PER STRUCTURAL					2. SHEAR/SHEATHING PER STRUCTURAL					2. SHEAR/SHEATHING PER STRUCTURAL			
A3	2X4 WOOD STUD FURRING WALL	NOT RATED	STC: 28		В	2X6 WOOD STUD WALL	NOT RATED	STC: 36		C0	2X4 WOOD STUD PARTITION WALL	NOT RATED TYPE IIIA	STC: 63	
>=	(1) LAYER 5/8" GWB O/ 2X4 WOOD STUD FRAMING		CALIFORNIA OFFICE OF NOISE CONTROL			(1) LAYER 5/8" GWB O/ 2X6 WOOD STUDS W/ ACOUSTICAL INSULATION O/ (1) LAYER 5/8" GWB		CALIFORNIA OFFICE OF NOISE CONTROL		AFT WALL SEE PLANS—		UL U305	CALIFORNIA OFFICE OF NOISE CONTROL 1.2.4.1.5.3	
	NOTES: 1. STUD SPACING PER STRUCT. 2. SHEAR/SHEATHING PER STRUCTURAL					NOTES: 1. STUD SPACING PER STRUCT. 2. SHEAR/SHEATHING PER STRUCTURAL					NOTES: 1. STUD SPACING PER STRUCT. 2. SHEAR/SHEATHING PER STRUCTURAL			
C1	2X4 WOOD STUD PARTITION WALL	1-HR	STC: 63		C2	2X4 WOOD STUD PARTITION WALL	<u>2-HR</u>	STC: 63		D	2X6 WOOD STUD FURRING WALL	NOT RATED	STC: 28	
		UL U305	CALIFORNIA OFFICE OF NOISE CONTROL 1.2.4.1.5.4			(2) LAYER 5/8" TYPE 'X' GWP O/ 2X4 WOOD STUDS W/ R-11 INSULATION O/ 1" AIR GAP O" 2X4 WOOD STUDS (OFFSET) W/ R-11 INSULATION O/ (2) LAYER 5/8" TYPE 'X' GWP O/	UL U301	CALIFORNIA OFFICE OF NOISE CONTROL 1.2.4.1.5.3			(1) LAYER 5/8" GWB O/ 2X6 WOOD STUD FRAMING		CALIFORNIA OFFICE OF NOISE CONTROL	
	NOTES: 1. STUD SPACING PER STRUCT. 2. SHEAR/SHEATHING PER STRUCTURAL					NOTES: 1. STUD SPACING PER STRUCT. 2. SHEAR/SHEATHING PER STRUCTURAL					NOTES: 1. STUD SPACING PER STRUCT. 2. SHEAR/SHEATHING PER STRUCTURAL			
E	6" MTL, STUD WALL	NOT RATED			F	3 5/8" MTL, STUD WALL	NOT RATED	STC: 45		G	3 5/8" MTL, STUD WALL	<u>1-HR</u>	STC: 52	<u>U-0,407</u>
•	(1) LAYER 5/8" GWB O/ 6" MTL. STUDS W/ R-19 INSULATION O/ (1) LAYER 5/8" GWB		TEST SOURCES			(1) LAYER 5/8" GWB O/ 3 5/8" MTL. STUDS W/ R-13 INSULATION O/ (1) LAYER 5/8" GWB		CALIFORNIA OFFICE OF NOISE CONTROL 1.3.3.1.5.9			(2) LAYERS OF 5/8" GWB O/ 3 5/8" MTL. STUDS W/ R-13 INSULATION O/ (2) LAYERS OF 5/8" GWB O/		TEST SOURCES	
	NOTES: 1. STUD SPACING PER STRUCT. 2. SHEAR/SHEATHING PER STRUCTURAL					NOTES: 1. STUD SPACING PER STRUCT. 2. SHEAR/SHEATHING PER STRUCTURAL					NOTES: 1. STUD SPACING PER STRUCT. 2. SHEAR/SHEATHING PER STRUCTURAL			
Н	3 5/8" MTL, STUD FURRING WALL	NOT RATED			i1-4	4" MTL CH STUD SHAFT WALL	<u>1-HR</u>			i1-2.5	2 1/2" MTL CH STUD SHAFT WALL	<u>2-HR</u>		<u>U-0.415</u>
•	(1) LAYER 5/8" GWB  3 5/8" MTL. STUDS W/ R-13 INSULATION O/  NOTES: 1. STUD SPACING PER STRUCT. 2. SHEAR/SHEATHING PER STRUCTURAL		TEST SOURCES		24" MAX. O.C.		UL U415	TEST SOURCES		HORIZONTAL SECTION		UL U415 or U437	TEST SOURCES	
										i2-2A	4" MTL CH STUD SHAFT WALL	<u>2-HR</u>		<u>U-0.415</u>
										HORIZONTAL SECTION	(5/8") TYPE 'X' GYPSUM BOARD  2X4 WOOD FRAMING W/ R-13 BATT INSULATION (2) LAYERS 5/8" TYPE 'X' GWB O/  2-1/2" MTL CH STUDS RUNNING HORIZ., FRICTION FITTED TO 'J' SHAPED RUNNERS O/  1" GYPSUM BOARD SHAFT LINER  NOTES: 1. STUD SPACING PER STRUCT. 2. SHEAR/SHEATHING PER STRUCTURAL	UL U415 or U437	TEST SOURCES	
										i2 <b>-</b> 4	4" MTL CH STUD SHAFT WALL	2-HR		<u>U-0.415</u>
										HORIZONTAL SECTION	(2) LAYERS 5/8" TYPE 'X' GWB O/ 4" MTL CH STUDS RUNNING HORIZ., FRICTION FITTED TO 'J' SHAPED RUNNERS O/ -1" GYPSUM BOARD SHAFT LINER  NOTES: 1. STUD SPACING PER STRUCT. 2. SHEAR/SHEATHING PER STRUCTURAL	UL U415 or U437	TEST SOURCES	
										i2-6	6" MTL CH STUD SHAFT WALL	<u>2-HR</u>		<u>U-0.415</u>
										HORIZONTAL SECTION		200000000000000000000000000000000000000	TEST SOURCES	

### **ASSEMBLIES GENERAL NOTES**

- 1. SEE BUILDING OCCUPANCY/EGRESS PLANS AND FLOOR PLANS FOR WALL FIRE RATING LOCATIONS. 2. USE MOISTURE RESISTANT GYPSUM ON ALL WALLS AND CEILINGS WHERE REQUIRED PER
- SPECIFICATIONS. (AREAS REQUIRED BUT NOT LIMITED TO: RESTROOMS, CUSTODIAL CLOSETS, BEHIND
- 3. ALL EXTERIOR FINISHES TO MEET THICKNESSES OF TABLE 1405.2. ALUMINUM PREFINISHED FLASHING SHOWN IN DETAILS TO MEET THICKNESS OF ALUMINUM SIDING IN TABLE 1405.2 TO ENSURE COMPLIANCE WITH 1403.5 EXCEPTION 1. 4. ZIP CODE 91950 IS A CLIMATE ZONE 7. THEREFORE, CLASS I OR CLASS II VAPOR RETARDERS TO BE
- PROVIDED AT INTERIOR FACE SIDE OF FRAME WALLS PER CBC 1405.3.1. PAINT WITH A PERM RATING GREATER THAN 0.1 AND LESS THAN OR EQUAL TO 1.0. SEE 099000 PAINTING AND COATING SPECIFICATION 5. WRB AND DRAINAGE PLANE TO MEET NFPA 285 PER CBC 1403.5
- PROVIDE FIREBLOCKING PER CBC 718.2.
   WOOD ASSEMBLIES IN THE TYPE IIIA BUILDING. TO HAVE A MAXIMUM CONCEALED FR INSULATION VOLUME OF 160ft3. USE FIREBLOCKING PER CBC 718.2 AND DRAFTSTOP
- AND CBC 718,4 TO SUBDIVIDE VOLUMES GREATER THAN 160ft3. A. IN TRUSS FLOOR AND ROOF ASSEMBLY AREAS FIREBLOCKING AND DRAFTSTOPPI WITH WITH SOLID MATERIALS, NOT MINERAL WOOL OR CELLULOSE DUE TO INSUF
- SECURELY RETAINED IN PLACE (CBC 718.2.1.7).

  B. WHERE WOOD TRUSSES ARE NOT USED, FILLING JOIST/BAY CAVITIES WITH MINER 718.2.1 AND CBC 718.3.1 IS ACCEPTED. 8. 'SHEATHING PER STRUCT' IS SHOWN ONLY ON ONE SIDE OF THE ASSEMBLIES. SEE STRUCT FOR SHEAR
- WALL SPECIFICATIONS AND LOCATIONS WITH BOTH SIDES OF ASSEMBLY SHEATHED, WHERE SHEATHING IS SHOWN FOR PARITAL WALLS. PROVIDE AN EVEN FINISHED SURFACE BY ADDING SHEATHING TO ENTIRE SURFACE OF WALL AND ALIGNING WALLS.
- 9. SOME INTERIOR PARTITIONS INCLUDE PLYWOOD SHEAR LAYERS, REFER TO STRUCTURAL FOR LOCATIONS 10. LOW SLOPE SINGLE PLY TO HAVE MIN SRI VALUE OF 75. 11. ALL SINGLE PLY ROOFING TO HAVE A MIN. 1/4" PER FOOT SLOPE TO DRAIN IN ALL CONDITIONS.

OATING SPECIFICATION,		INFILL	DEVELOP
FREE AIR AND/OR PPING PER CBC 718.3	ı		
PING TO BE CREATED JFFICIENT MEANS TO BE			
ERAL WOOL PER CBC			

8th National E 8TH STREET & B A

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INT. WALL **ASSEMBLIES** A-013

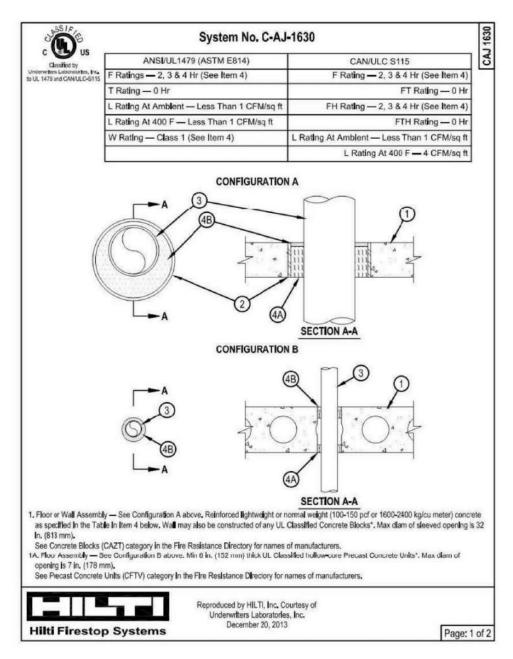


DRAWN BY:	JA	
PROJECT#	XX-XXX	
NUMBER	DESCRIPTION	DATE
NOWBER	BEGGIAII HOIV	Ditti

TITLE:
INTERIOR WALL
ASSEMBLIES

**A0.5** 

\*REFERENCED INTERIOR WALL ASSEMBLIES FROM ORIGINAL BUILDING PERMIT SET APPROVED UNDER PERMIT# 2019-8703\*



STRUCT

WHERE

OCCURS.

**ATTACHMENT** 

1/8" CLR. TYPICAL (PENETRATING

OBJECT SHALL NOT BE IN DIRECT

1/2" CLR. TYPICAL (PENETRATING

OBJECT SHALL NOT BE IN DIRECT

1/8" CLR. TYPICAL (PENETRATING

NOTE: SEE UL ASSEMBLY FOR FIRE RATED PENETRATIONS.

ACOUSTICAL PENETRATION (TYP)

OBJECT SHALL NOT BE IN DIRECT

CLOSED CELL FOAM OR FIRE

CONTACT WITH WALL)

RATED SILICONE FOAM

CLOSED CELL FOAM OR FIRE RATED SILICONE FOAM

CONTACT WITH WALL)

CONTACT WITH WALL)

ACOUSTICAL SEALANT -

- STRUCT. CONC. DECK (COLUMN SIM. DTL)

COLOR AS APPROVED BY ARCH.

FILL WITH MINERAL WOOL

- CMU/CONC. PER PLANS

SINGLE CONDUIT, CABLE OR PIPE

MULTIPLE CONDUIT, CABLE OR PIPE

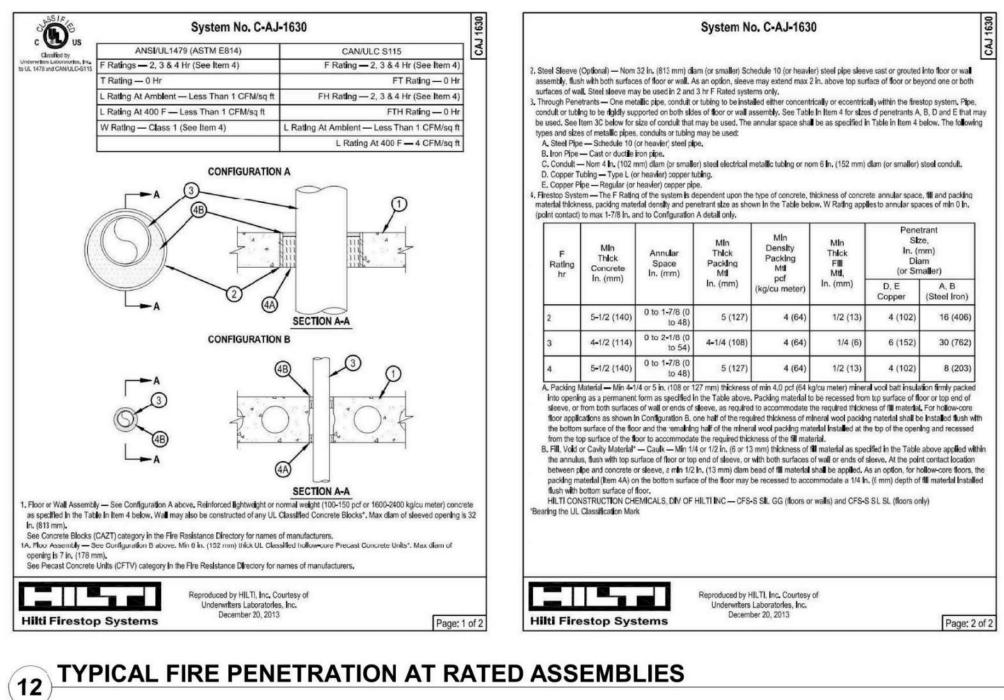
SLEEVE W/ MULTIPLE CONDUIT

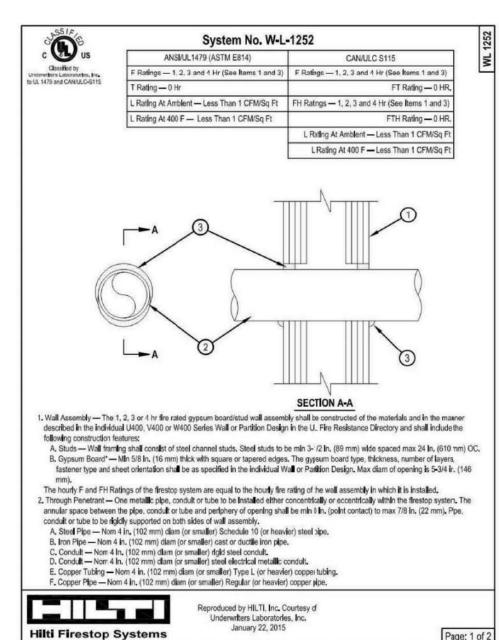
TYP. ACOUSTIC

TREATMENT AT J-BOX

NON STRUCT. CMU/CONC. WALL HEAD

2-HR FIRE SEALANT BOTH SIDES (PAINTABLE PAINT







### **ACOUSTIC PARTITION NOTES**

- 1. EXTEND ACOUSTICAL PARTITIONS FULL HEIGHT, UNLESS NOTED OTHERWISE. 2. SEAL FULL HEIGHT PARTITIONS AIR TIGHT TO STRUCTURAL FLOOR OR ROOF DECK ABOVE, CONFORM WITH DESIGN PRACTICE RECOMMENDED IN ASTM E497 AND ASTM C919. ASTM E497-99 STANDARD PRACTICE FOR INSTALLING SOUND ISOLATION LIGHTWEIGHT PARTITIONS. ASTM C919-08, STANDARD PRACTICE FOR USE OF SEALANTS IN ACOUSTICAL APPLICATIONS.
- 3. SEAL PARTITIONS AT THE FLOOR SURFACE WITH ACOUSTICAL CAULKING BY APPLYING SEALANT TO THE FIRST LAYER OF DRYWALL EACH SIDE.
- 4. ELECTRICAL OR OTHER OUTLET BOXES SHOULD NOT BE INSTALLED BACK TO BACK WITHIN A SINGLE PARTITION. SEPARATE BY AT LEAST ONE STUD SPACE. SEAL PERIMETER OF DRYWALL CUTOUT FOR ALL BOXES AND RECESSED PANELS. EXCEPTION AT UNITS WHERE KITCHENS ARE BACK-TO-BACK AND FIBERGLASS BACK BOXES ARE TO BE USED, PER ELECTRICAL.
- 5. PIPING AND DUCT PENETRATIONS: CLOSE UP MAX 1/2" GAP AROUND EACH PENETRATION ON EACH SIDE WITH BACKER ROD OR COMPRESSED GLASS FIBER BATT AND SEAL WITH ACOUSTICAL CAULKING.
- 6. ACOUSTICAL PARTITIONS CONSTRUCTED WITH CMU MUST BE SEALAED ON ALL SOUND-EXPOSED SURFACES WITH TWO COATS OF PAINT OR SEALER. SPECIFY PAINT OR SEALER WHICH WILL PENETRATE CMU PORES AND SEAL THE SURFACE
- 7. WHERE TWO OR MORE LAYERS OF GYPSUM BOARD ARE USED, STAGGER BOARD JOINTS.
- 8. ACOUSTICAL PARTITION DRYWALL: TYPE X GYPSUM WALLBOARD TO REDUCE VARIABILITY OF ACOUSTICAL
- PERFORMANCE. 9. CONSTRUCT PARTITIONS WITH GAUGE REQUIREMENTS AS
- LISTED IN SPECIFICATION SECTION 099200 10. WHERE AN ACOUSTICAL PARTITION MEETS ANOTHER PARTITION (USUALLY AT 90 DEGREES) DRYWALL SHOULD NOT RUN CONTINUOUSLY ACROSS THE JUNCTION BUT TERMINATE IN A TAPED JOINT ON EACH SIDE. THE ADJOINING PARTITION MUST

BE FULL HEIGHT TO PRESERVE THE ACOUSTICAL PARTITION'S

SOUND ISOLATION PERFORMANCE. SEE DETAIL DRAWINGS FOR

### FIRE PENETRATION NOTES

ADDITIONAL INFORMATION.

- 1. REFER TO MECHANICAL, ELECTRICAL AND PLUMBING PLANS FOR THE LOCATIONS OF PENETRATIONS THROUGH WALLS.
- 2. REFER TO EGRESS PLAN SHEETS G-011 TO G-013 FOR A DIAGRAM OF THE LOCATIONS OF RATED WALLS. IN ADDITION, REFER TO WALL ASSEMBLIES IDENTIFIED ON THE PLANS FOR FIRE RATED

AUTHORITIES PRIOR TO INSTALLATION.

20 SEPT 2019 Issue Date: Drawn: Checked: A18.0019.00 MIH Project No.:

> **ASSEMBLY DETAILS** A-014



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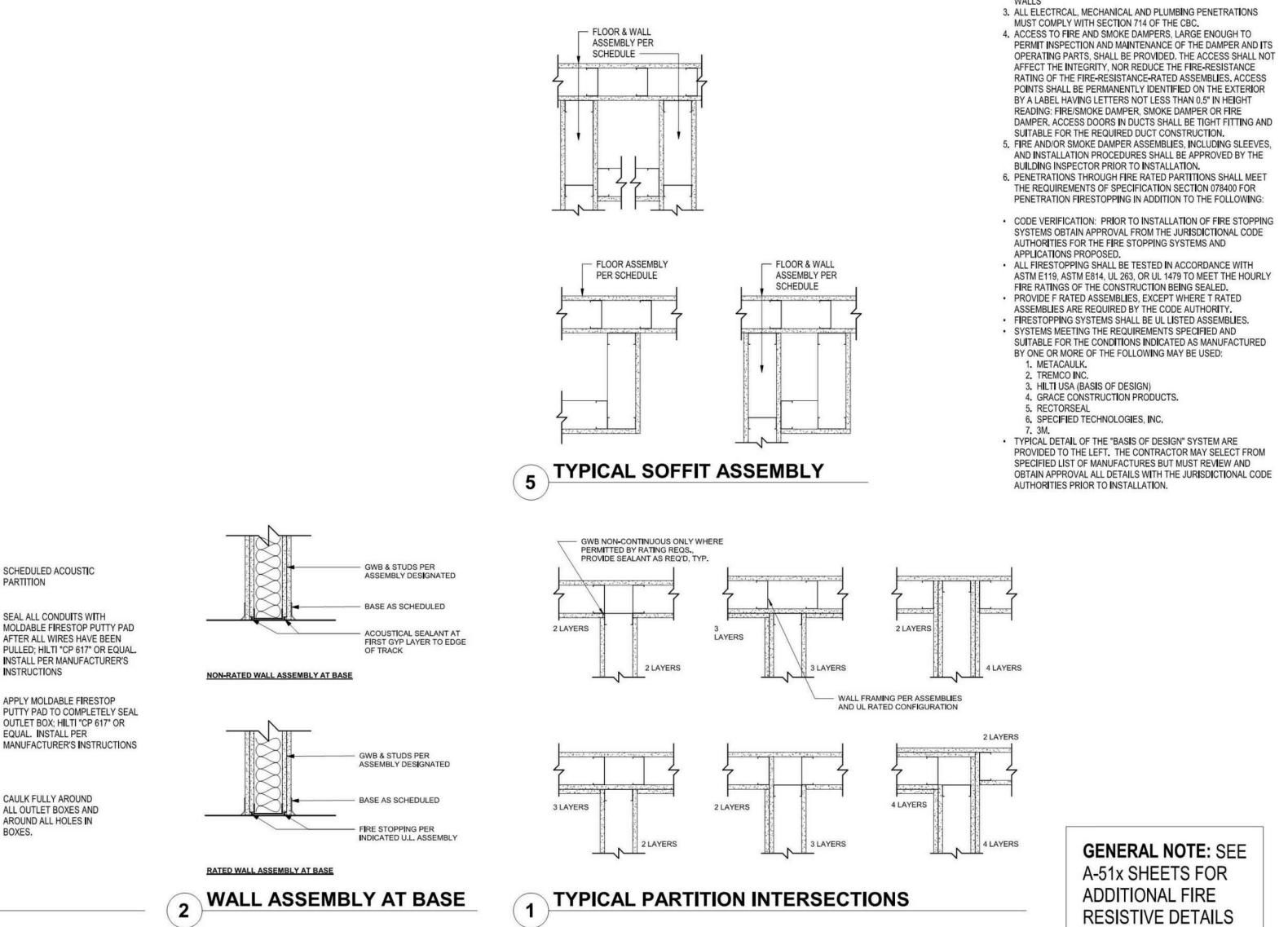
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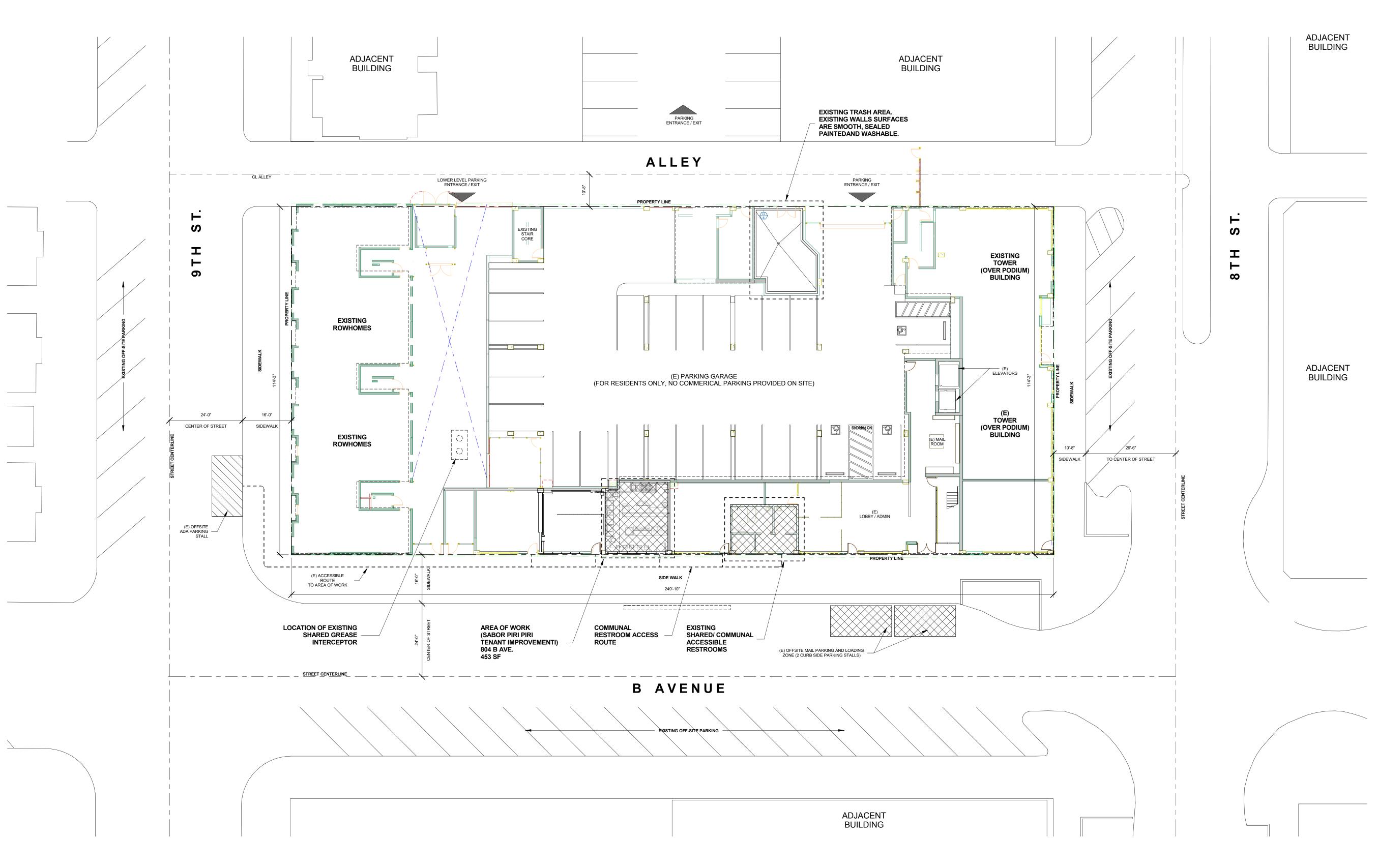
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### **NOTES:**

\*\*PREVIOUS USE OF TENANT SPACE WAS AN EMPTY SHELL SPACE PREPPED FOR KITCHEN/COMMERICAL FOOD/RETAIL ESTABLISHMENT.

NO HAZARDOUS MATERIALS WILL BE STORED OR USED WITHIN THE BUILDING WHICH EXCEED THE QUANTITES LISTED IN IBC TABLES 307.1(1) AND 307.1(2)

### **REFERENCE NOTE:**

\*\*ALL ITEMS ON SITE PLAN, INCLUDING ACCESSIBLE OFF SITE STREET PARKING, ACCESSIBLE PATH AND RESTROOMS ARE FOR REFERENCE ONLY. ALL ITEMS WERE APPROVED UNDER PERMIT # 2019-8703



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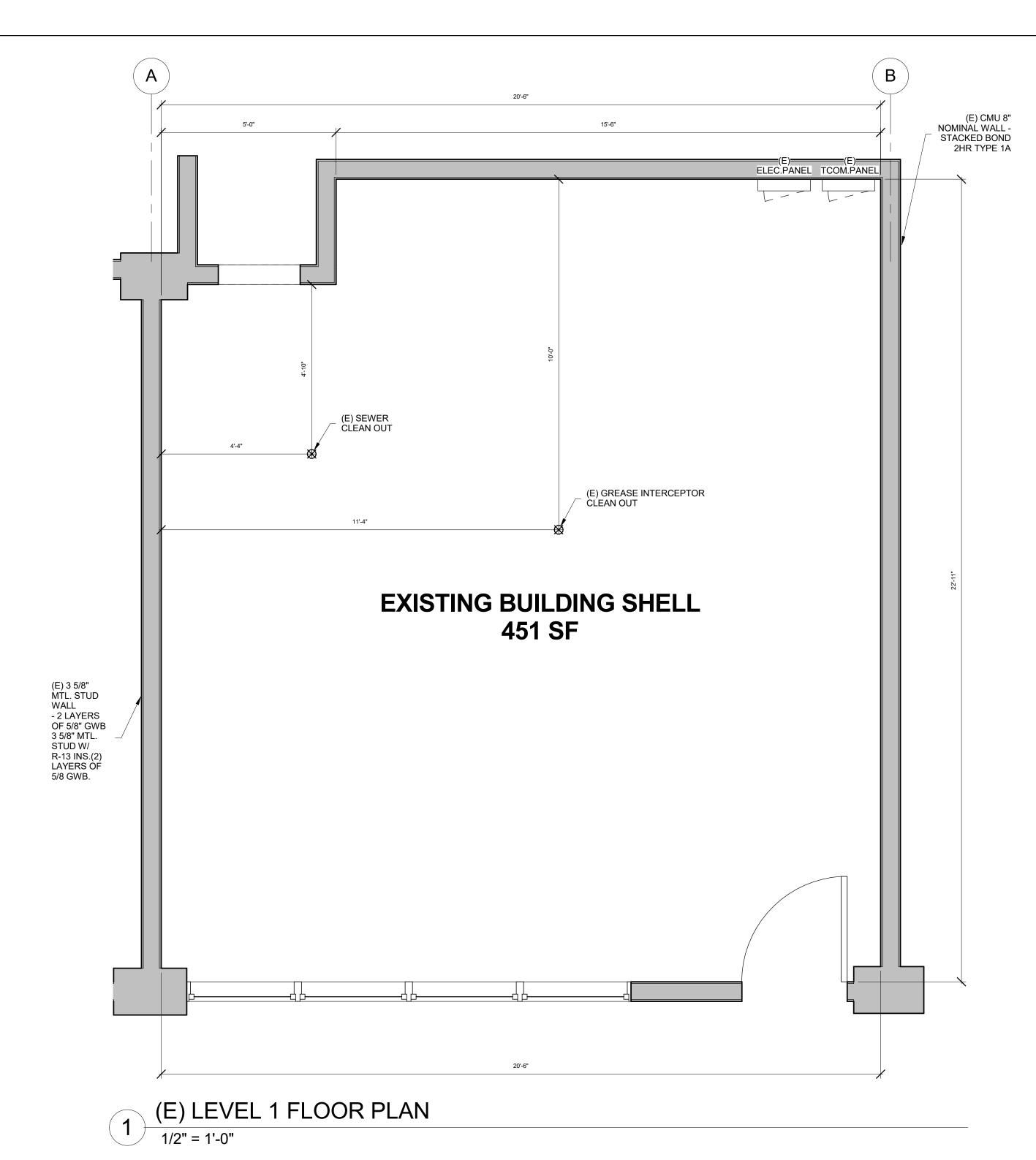
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SITE PLAN

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### **GENERAL NOTES**

WALL AND CEILING MATERIALS SHALL BE CLASSIFIED IN ACCORDANCE WITH ASTM E 84 OR UL 723.

ALL FOOD-RELATED AND UTENSIL-RELATED EQUIPMENT SHALL MEET OR BE EQUIVALENT TO SANITATION STANDARDS ESTABLISHED BY AN AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) ACCREDITED PROGRAM.

EXISTING GREASE TRAP WILL BE CLEANED ONCE A MONTH BY A SPECIALIZED COMPANY

EXISTING COMMUNAL RESTROOMS SERVES EMPLOYEES AND CONSUMERS.

NOTE: EXIT SIGNS SHALL BE INTERNALLY OR EXTERNALLY ILLUMINATED AT ALL TIMES AND SHALL BE CONNECTED TO AN EMERGENCY POWER SYSTEM (BATTERIES, UNIT EQUIPMENT OR AN ON-SITE GENERATOR) THAT WILL

AUTOMATICALLY ILLUMINATE THE EXIT SIGNS FOR A DURATION OF NOT LESS THAN 90 MINUTES.

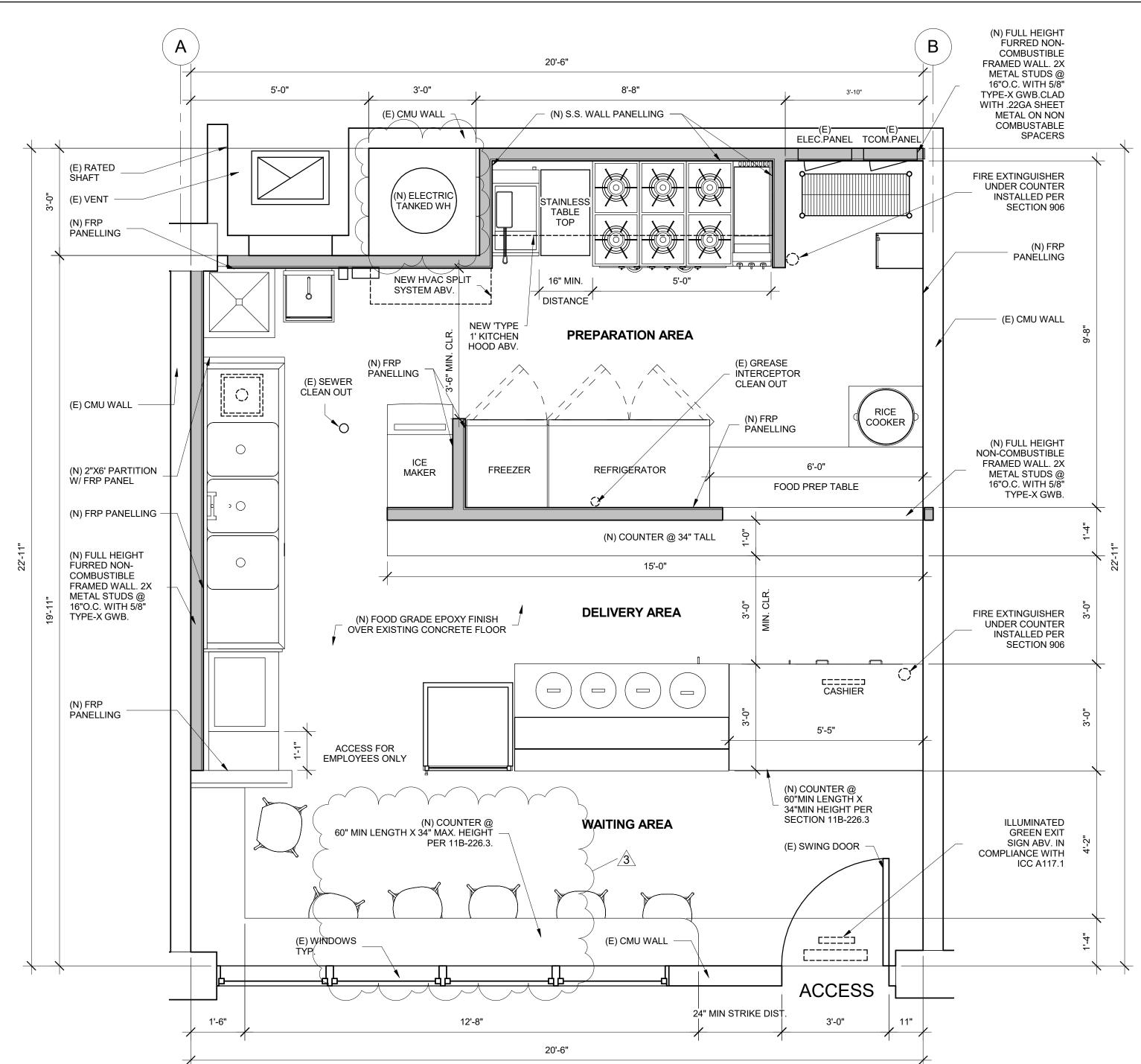
DOOR WILL MAINTAIN 'UNLOCK' POSITION DURING BUSINESS HOURS

ACCESS ONLY FOR EMPLOYEES

ONE INCH AIR GAP TO FLOOR SINK FROM INDIRECT DISCHARGE OF 3 COMP SINK, PREP SINK AND WATER HEATER

FRONT COUNTER (CASHIER AND DELIVERY AREA) COMPLIES WITH ADA STANDARDS

PARTITION WALL 2X6" HIGH MIN. ANCHORED TO WALL AND CEILING COVERED WITH FRP PANEL.



### (P) LEVEL 1 FLOOR PLAN

### \*\* REFERENCE SHEET A1.3 FOR EQUIPMENT PLAN AND SCHEDULE \*\*

### **DOOR NOTES:**

11B-404.2.9 DOOR AND GATE OPENING FORCE:

1. THE FORCE FOR PUSHING OR PULLING OPEN A DOOR OR GATE SHALL BE AS FOLLOWS:

A. INTEROR HINGED DOORS AND GATES: 5 POUNDS (22.2 N) MAXIMUM.

B. SLIDING OR FOLDING DOORS: 5 POUNDS (22.2 N) MAXIMUM.

C. REQUIRED FIRE DOORS: THE MINIMUM OPENING FORCE ALLOWABLE BY THE APPROPRIATE ADMINISTRATIVE AUTHORITY, NOT TO EXCEED 15 POUNDS (66.7 N).

D. EXTERIOR HINGED DOORS: 5 POUNDS (22.2 N) MAXIMUM

THESES FORCES DO NOT APPLY TO THE FORCE REQUIRED TO RETRACT LATCH BOLTS OR DISENGAGE OTHER DEVICES THAT HOLD THE DOOR OR GATE IN A CLOSED POSITION (PER CBC 2019 SECTION 11B-404.2.9.

2. ALL OPERABLE PARTS OF ALL DOORS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPHING, PINCHING, OR TWISTING OF THE WRIST, THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 POUNDS (22.2 N) MAXIMUM.

3. THRESHOLDS, IF PROVIDED AT DOORWAYS, SHALL BE 1/2 INCH (12.7MM) HIGH MAXIMUM, RAISED THRESHOLDS AND CHANGES IN LEVEL AT DOORWAYS SHALL COMPLY WITH SECTIONS 11B-302 AND 11B-303.

THE LOWER 10" OF ALL DOORS WILL COMPLY WITH SECTION: 11B-404.2.10:

A. TO BE SMOOTH AND UNINTERRUPTED TO ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST, WITHOUT CREATING A TRAP

OR HAZARDOUS CONDITION.

B. NARROW FRAME DOORS MAY USE A 10" HIGH SMOOTH PANEL ON THE PUSH SIDE OF THE DOOR.

### DOOR EXIT REQUIREMENTS:

1. EGRESS DOORS SHALL BE READILY OPENABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT. (CFC SECTION 1010.1.9)
2. A READILY VISIBLE DURABLE SIGN IS POSTED ON THE EGRESS SIDE ON OR ADJACENT TO THE DOOR STATING: THIS DOOR TO REMAIN UNLOCKED WHEN THIS SPACE IS OCCUPIED. THE SIGN SHALL BE IN LETTERS 1 INCH HIGH ON A CONTRASTING BACKGROUND. (CFC, SECTION

3. EXIT DÓORS WILL BE A MINIMUM OF 3 FEET BY 6'-8" WITH A MINIMUM DOOR SWING OF 90 DEGREES.
4. HANDLES, PULLS, LATCHES, LOCKS, AND OTHER OPERABLE PARTS ON DOORS AND GATES SHALL COMPLY WITH SECTION 11B-309.4
OPERABLE PARTS OF SUCH HARDWARE SHALL BE 34 INCHES MINIMUM AND 44 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND.
WHERE SLIDING DOORS ARE IN THE FULLY OPEN POSITION, OPERATING HARDWARE SHALL BE EXPOSED AND USABLE FROM BOTH SIDES.
(CBC 11B-404.2.7)

### **WINDOW SCHEDULE**

	ТҮРЕ	SIZE	MATERIAL	NOTES
EXISTING	MAIN FACADE WINDOW	3'-2" X 4'-0"	ALUMINUM AND GLASS	FIXED, NON-OPERABLE
EXISTING	MAIN FACADE WINDOW	3'-2" X 4'-0"	ALUMINUM AND GLASS	FIXED, NON-OPERABLE
EXISTING	MAIN FACADE WINDOW	3'-2" X 4'-0"	ALUMINUM AND GLASS	FIXED, NON-OPERABLE
EXISTING	MAIN FACADE WINDOW	3'-2" X 4'-0"	ALUMINUM AND GLASS	FIXED, NON-OPERABLE
EXISTING	MAIN FACADE WINDOW	3'-2" X 2'-0"	ALUMINUM AND GLASS	FIXED, NON-OPERABLE
EXISTING	MAIN FACADE WINDOW	3'-2" X 2'-0"	ALUMINUM AND GLASS	FIXED, NON-OPERABLE
EXISTING	MAIN FACADE WINDOW	3'-2" X 2'-0"	ALUMINUM AND GLASS	FIXED, NON-OPERABLE
EXISTING	MAIN FACADE WINDOW	3'-2" X 2'-0"	ALUMINUM AND GLASS	FIXED, NON-OPERABLE

### DOOR SCHEDULE

	TYPE	SIZE	MATERIAL	TYPE	REMARKS
EXISTING	(E) MAIN ACCESS	3'-0" X 7'-0"	ALUMINUM AND SAFETY GLAZING	SWING	DOOR SELF/CLOSING AND TIGHTLY FITTED



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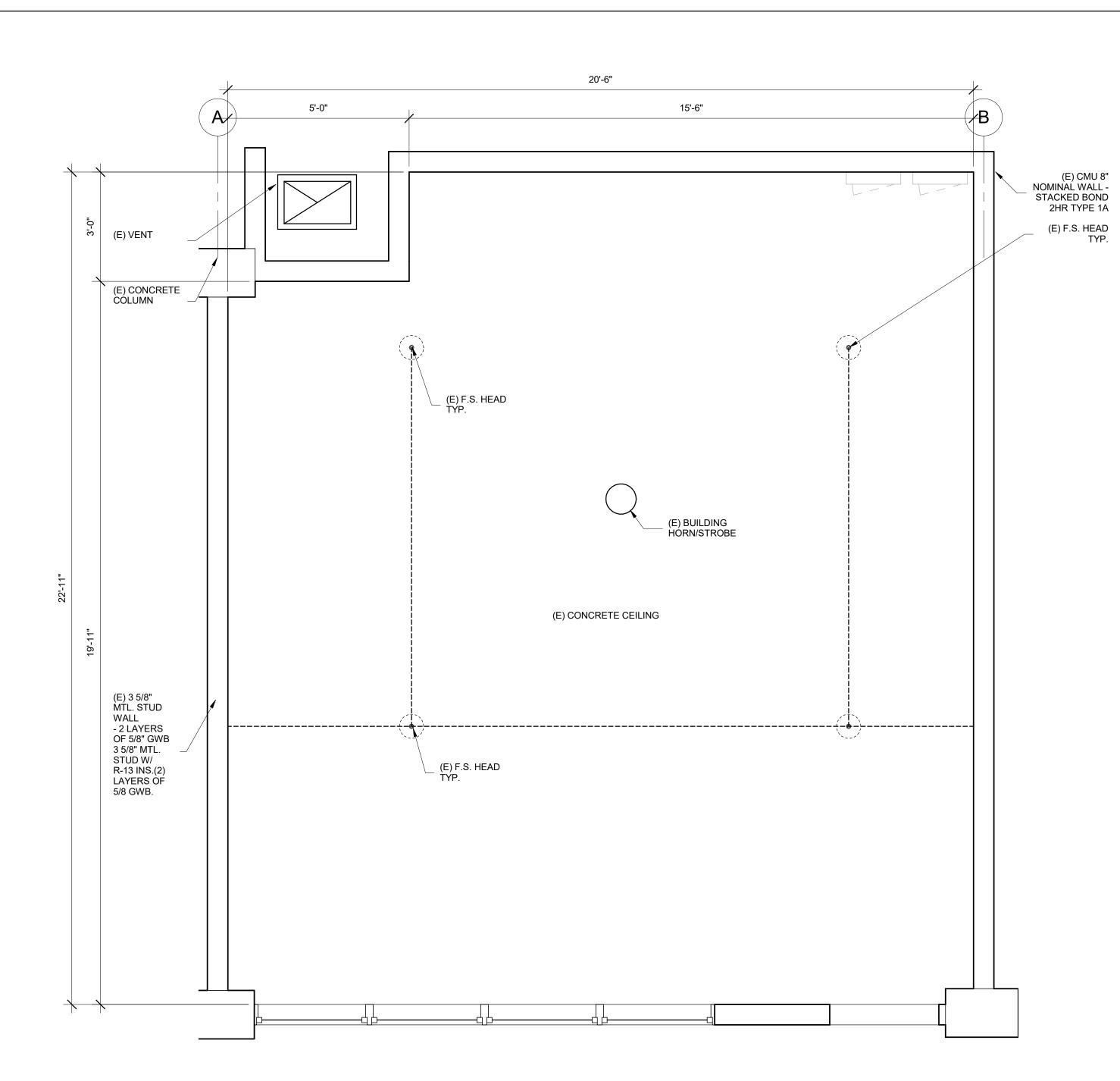
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FLOOR PLANS

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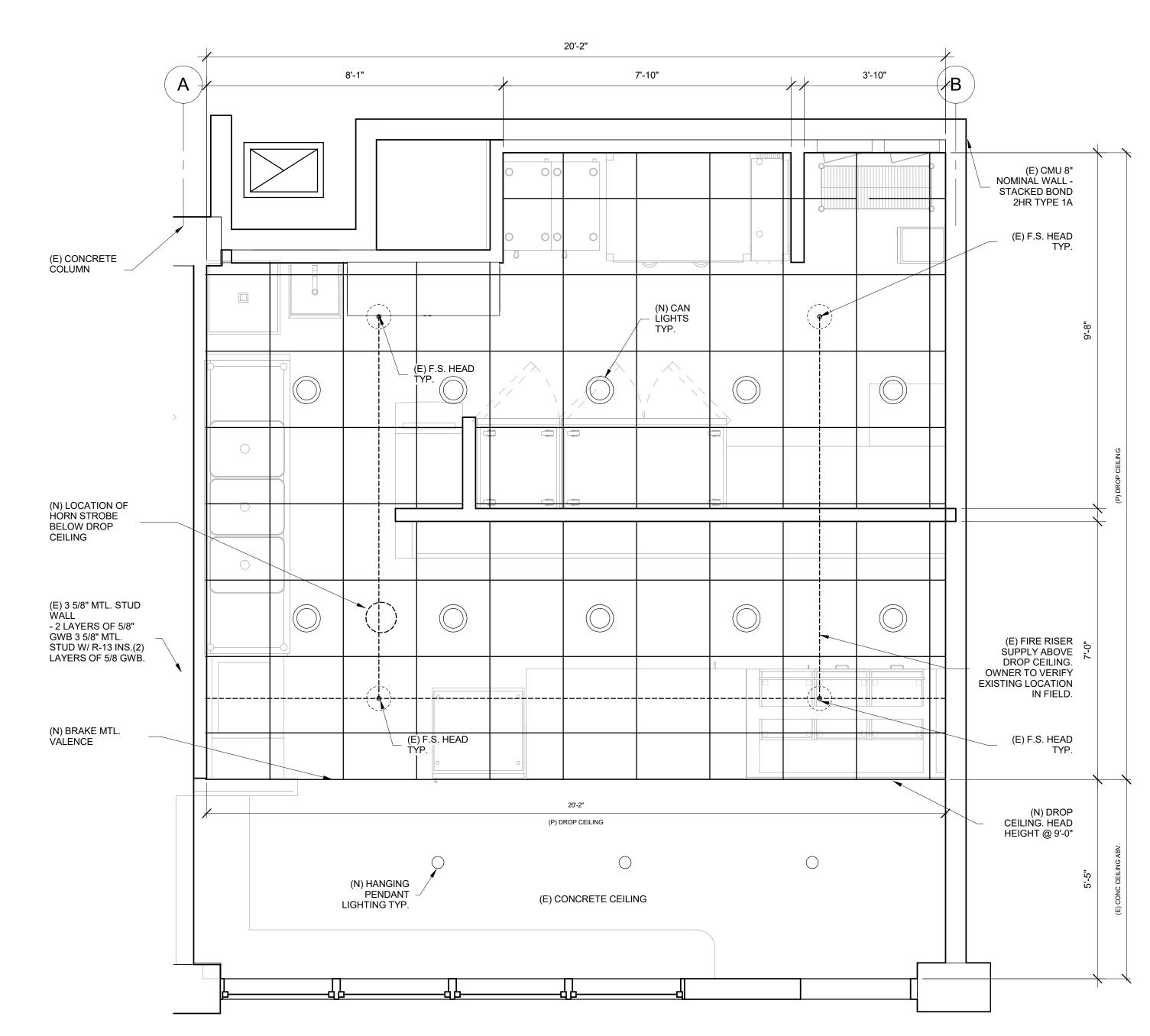
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(E) LEVEL 1 REFLECTIVE CEILING PLAN

(E) LEVE



(P) LEVEL 1 REFLECTIVE CEILING PLAN

### **SUSPENDED CEILINGS:**

A. THE WIDTH OF THE PERIMETER SUPPORTING CLOSURE ANGLE OR CHANNEL SHALL BE NOT LESS THAN 2.0 IN. UNLESS QUALIFIED PERIMETER SUPPORTING CLIPS ARE USED.

B. CLOSURE ANGLES OR CHANNELS SHALL BE SCREWED OR OTHERWISE POSITIVELY ATTACHED TO WALL STUDS OR OTHER SUPPORTING STRUCTURES. PERIMETER SUPPORTING CLIPS SHALL BE QUALIFIED IN ACCORDANCE WITH APPROVED TEST CRITERIA PER SECTION 13.2.5.

C. PERIMETER SUPORTING CLIPS SHALL BE ATTACHED TO SUPPORTING CLOSURE ANGLE OR CHANNEL WITH A MINIMUM OF TWO SCREWS PER CLIP AND SHALL BE INSTALLED AROUND THE ENTIRE CEILING PERIMETER.

D. IN EACH ORTHOGONAL HORIZONTAL DIRECTION, ONE END OF THE CEILING GRID SHALL BE ATTACHED TO THE CLOSURE ANGLE, CHANNEL, OR PERIMETER SUPPORTING CLIP. THE OTHER END OF THE CEILING GRID IN EACH HORIZONTAL DIRECTION SHALL HAVE A MINIMUM 0.75 IN CLEARANCE FROM THE WALL AND SHALL REST UPON AND BE FREE TO SLIDE ON A CLOSURE ANGLE, CHANNEL, OR PERIMETER SUPPORTING CLIP.

E. CEILING AREAS OVER 2500 FT2 MUST HAVE SEISMIC SEPARATION JOINTS OR FULL HEIGHT PARTIONS.

F. CEILINGS WITHOUT RIGID BRACING MUST HAVE 2" OVERSIZE TRIM RINGS FOR SPRINKLERS AND OTHER CEILING PENETRATIONS.



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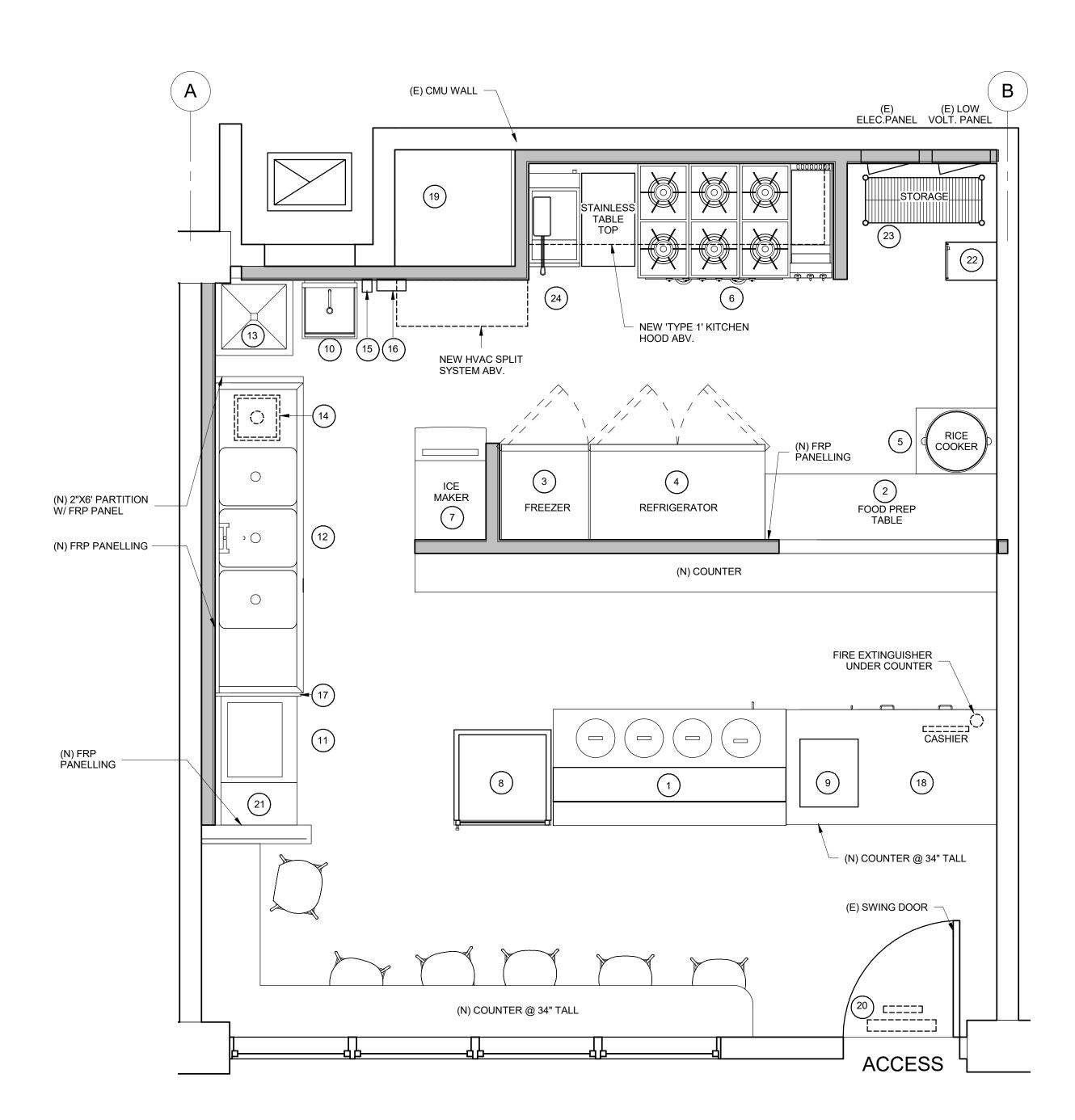
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CEILING PLANS

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(P) EQUIPMENT PLAN

1/2" = 1'-0"

### **EQUIPMENT SCHEDULE**

MARK	QTY	DESCRIPTION		ELECTR	ICAL		W	ATER	WASTE	INPUT	REMARKS	
			AMPS	HERTZ	VLTS	PHASE	COLD	нот	SIZE	BTUS		
1		(N) 60" HOT FOOD STATION BRAND: VOLLRATH MODEL: T39710-2	16	60	120	1					60W 24D 49H	
2		(N) REFRIGERATED PREP TABLE BRAND: BEVERAGE-AIR MODEL: SPE60HC-16	9.6	60	115	1					60W 29.25 D 41.1H	
3		(N) FREEZER BRAND: AVANTCO MODEL: SS-1F-HC 29"	2.62	60	115	1					29W 32.25D 82.5H	
4		(N) REFRIGERATOR BRAND: AVANTCO MODEL: SS-2R-HC 54"	6.08	60	115	1					NSF APPROVE	
5		(N) RICE COOKER BRAND: AVANTCO MODEL: 177RW90			120						NSF APPROVE	
6		(N) 6 BURNER 60" NATURAL GAS BRAND: COOKING PERFORMANCE GROUP MODEL: S60-GS24-N								276,000		
7		(N) ICE MACHINE 22" BRAND: AVANTCO MODEL: KMC-H-322-A	12	60	115		Х					
8		(N) GLASS DOOR MERCHANDISER 29.5" BRAND: BEVERAGE AIR MODEL: MT23-1B	7	60	115							
9		(N) COUNTERTOP HEATED DISPLAY CASE BRAND: AVANTCO MODEL: HDC-36	13.6	60	120							
10		(N) WALL MOUNTED HAND SINK BRAND: REGENCY MODEL: 600HS12SP					Х	X			9"X9"X4" COMPARTMENT NSF APPROVE	
11)		(N) PREP SINK BRAND: REGENCY MODEL: 600S1181818XLFT					Х	X			18"X18"X14" COMPARTMENT INDIRECT DISCHARGE TO FLOOR SINK NSF APPROVE	
12		(N) THREE COMPARTMENT SINK BRAND: REGENCY MODEL: 600S3162018G					Х	X			16"X20"X12" COMPARTMENT INDIRECT DISCHARGE TO FLOOR SINK NSF APPROVE	
13		(N) MOP SINK BRAND: FLORESTONE MODEL: MSR-2424					Х	X			24"X24"X10" COMPARTMENT  NSF APPROVE	
14		(N) FLOOR SINK BRAND: ZURN MODEL: Z1900									NSF APPROVE	
15		(N) SOAP DISPENSER BRAND: LAVEX MODEL: 712LSD40V									NSF APPROVE	
16		(N) TOWEL DISPENSER BRAND: LAVEX MODEL: 712LSD40V									NSF APPROVE	
17		(N) SPLASH GUARD MATERIAL: STAINLESS STEEL HEIGHT: 12"									NSF APPROVE	
18		(N) COUNTER CUSTOM MADE MODEL: QUARTZ									2 DRY STORAGE UNDERSHELF 24X60 2 TIER NSF APPROVE	
19		(N) WATER HEATER BRAND: NORITZ MODEL: NRC98						X		38,000	SEE SPEC SHEET ON THIS SHEET NSF APPROVE	
20		(N) AIR CURTAIN BRAND: CURTRON MODEL: AP-2-36-1-SS		1/3	120	1					PROVIDED WITH AUTOMATIC DOOR PLUNGER SWITCH NSF APPROVE	
21		(N) DRAIN BOARD DIMENSIONS: 12X24X36									NSF APPROVE	
22)		(N) EMPLOYEE LOCKERS BRAND: GLOBAL INDUSTIRAL 4 DOOR MODEL: T9F493455GY									NSF APPROVE	
23)		(N) WIRE RACK (14X36) BRAND: REGENCY MODEL: 460EB1848K85									2 DRY STORAGE UNDERSHELF 18X24 6 TIER NSF APPROVE	TOTAL DR' STORAGE 48 LF
24)		(N) DEEP FRYER BRAND: MAINSTREET EQUIPMENT MODEL: 541FF40N								90,000	15.5"W X 30.25"D X 47 1/8"H NSF APPROVE	-

### FINISH SCHEDULE

LOCATION	FL	OOR	WALL			CEILING		BASE		REMARKS		
	SEALED CONCRETE	TILE	INTERIOR PAINT	WASHABLE PAINT	FRP PANEL FLOOR TO 5' HIGH MINIMUM	TILE FROM FLR TO CLNG 8' HIGH MIN.	CONCRETE CEILNG	T-BAR SUSP. CLNG WASHABLE PANELS	GYPSUM BOARD W WASHABLE PAINT	3/8" RADIUS MIN. SLIM FOOT 6"	VINYL 4" MIN	CONCRETE SEALER BRAND: CONKRETE-SEAL MODEL: CK-128 VOC FREE NON TOXIC CLEAR SATIN
WAITING AREA	X		X				X				X	USDA/FDA COMPLIANT, CHEMICAL RESISTANT, MILDEW
DELIVERY AREA	X			X				Х	X	X		RESISTANT, SEALER, WATERPROOF
WASHING AREA	Х				X			X		X		
PREPARATION AREA	Х				X			X		X		
STORAGE AREA	Х				X			X		X		
(E) ACCESSIBLE RESTROOMS	X				Х			Х		X		



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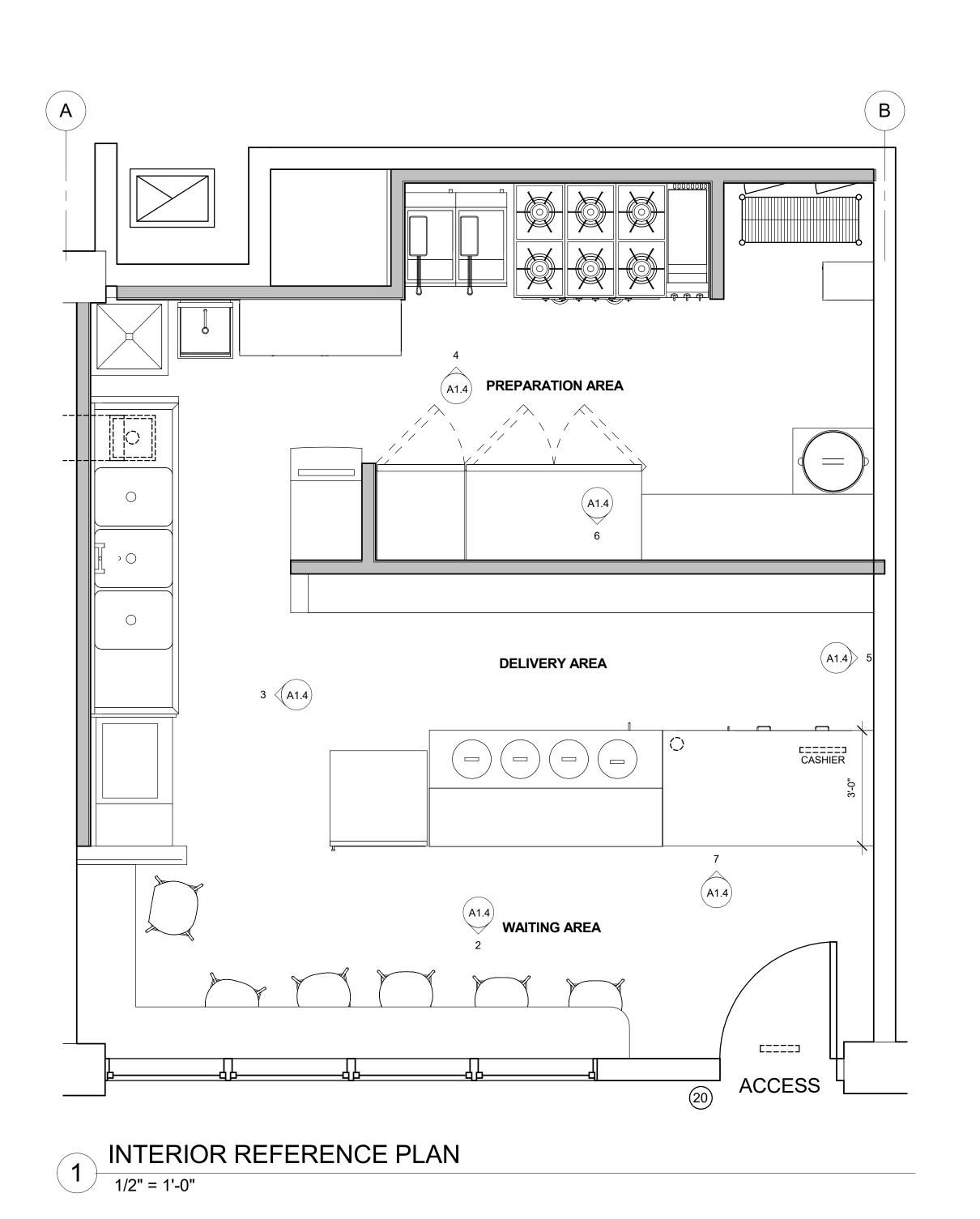
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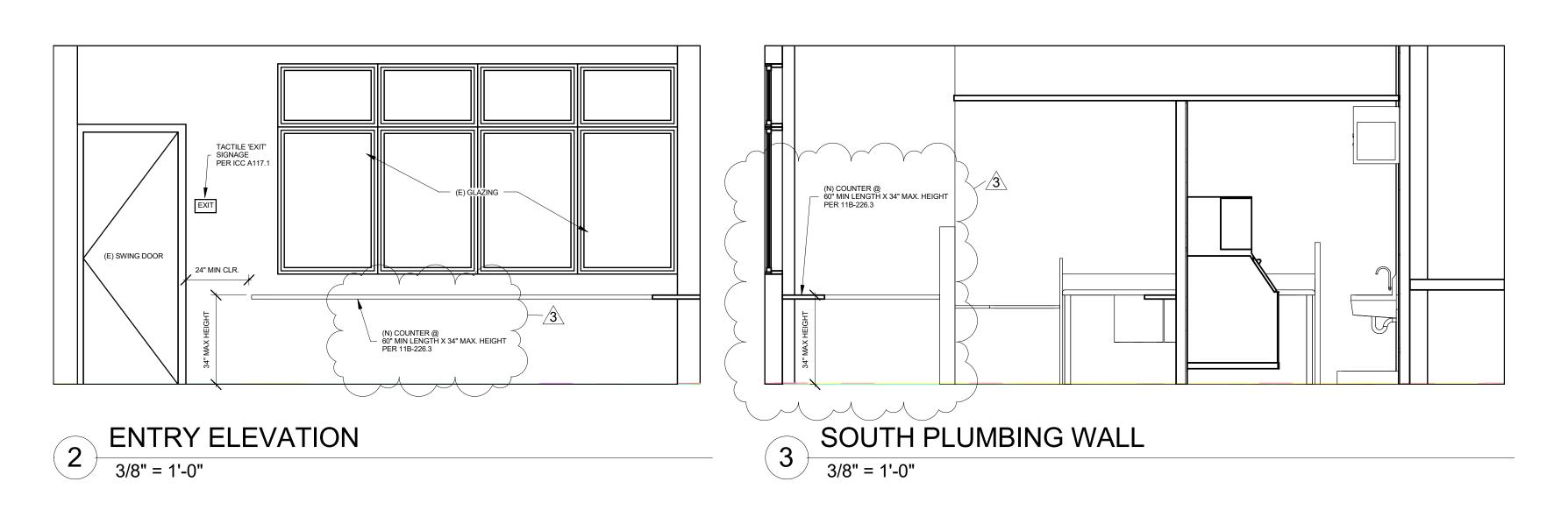
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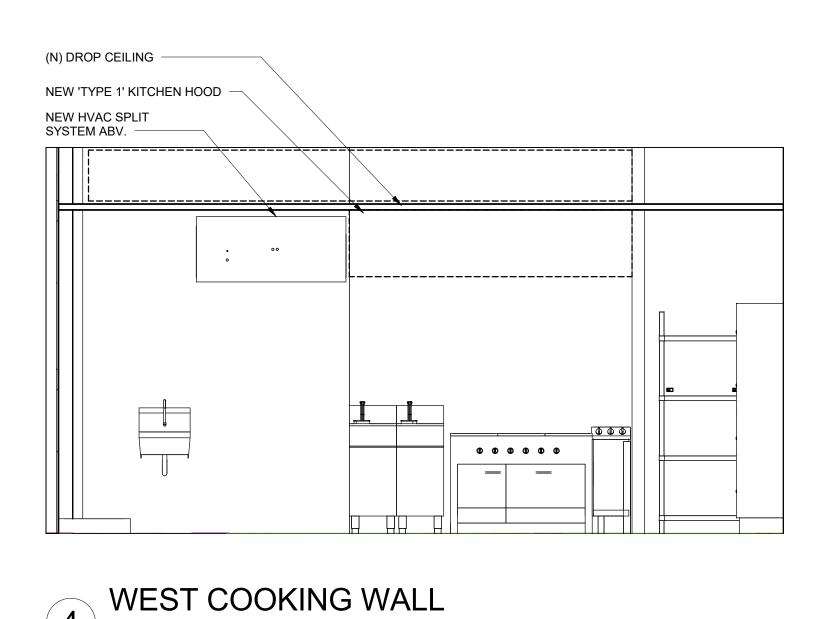
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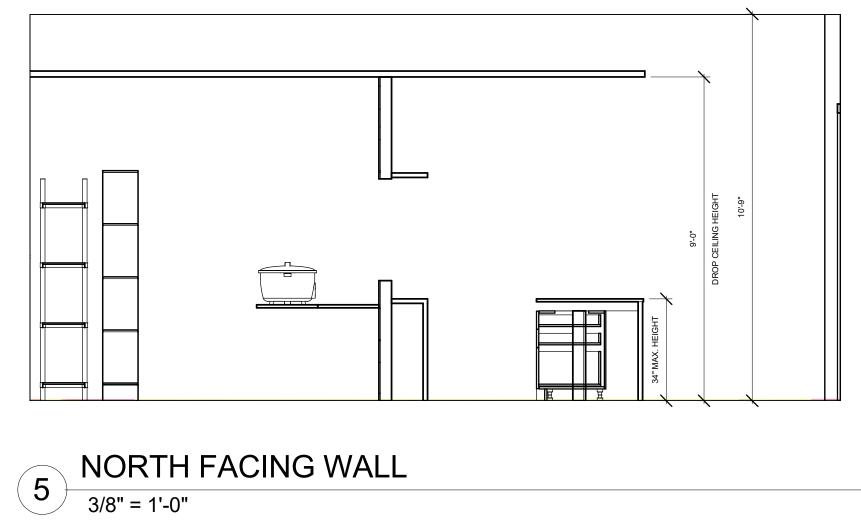
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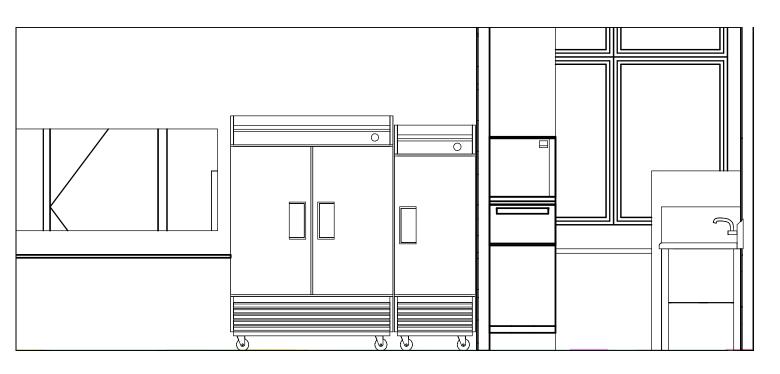
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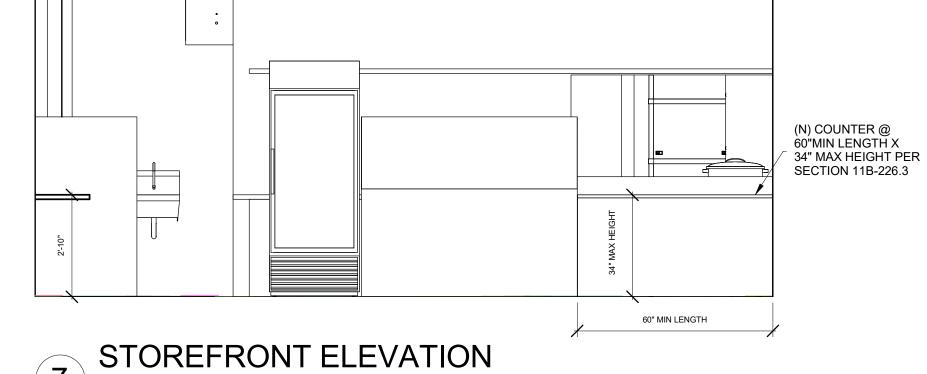


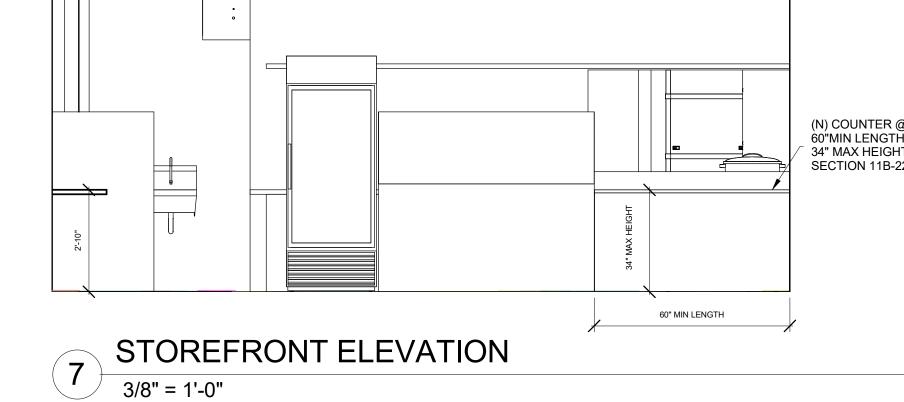




REFIDGERATION WALL

6 REFIDGI 3/8" = 1'-0"







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TITLE: INTERIOR ELEVATIONS SHEET: **A1.4** 

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- 1. THE SEISMIC BRACING AND ANCHORAGE OF ELECTRICAL CONDUITS, BUS DUCT, WIREWAY, AND CABLE TRAY SHALL BE IN ACCORDANCE WITH THE 2019 CALIFORNIA ELECTRICAL CODE AND "GUIDELINE FOR SEISMIC RESTRAINTS OF MECHANICAL SYSTEMS AND PLUMBING PIPING SYSTEMS, "PUBLISHED BY SMACNA AND PPIC, OR THE SUPERSTRUT-SEISMIC RESTRAINT SYSTEM, OR THE KIN-LINE SEISMIC RESTRAINT SYSTEM. ELECTRICAL EQUIPMENT MUST BE SEISMIC-CERTIFIED AND ANCHORED ACCORDING TO EQUIPMENT MANUFACTURE'S INSTALLATION INSTRUCTIONS. [CEC 110.3(B), CBC 1613.1, ASCE 7, CHAPTER 13]
- 2. ALL ELECTRICAL MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL BE LISTED BY UNDERWRITER'S LABORATORIES (UL) AND BEAR THEIR LABEL, OR LISTED AND CERTIFIED BY A NATIONALLY RECOGNIZED TESTING AUTHORITY WHERE UL DOES NOT HAVE A LISTING. CUSTOM MADE EQUIPMENT SHALL HAVE A COMPLETE TEST DATA SUBMITTED BY THE MANUFACTURER ATTESTING TO ITS SAFETY. IN ADDITION, THE MATERIALS, EQUIPMENT, AND INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF THE FOLLOWING:
  - AMERICAN SOCIETY OF TESTING MATERIALS (ASTM) INSULATED POWER CABLE ENGINEERS ASSOCIATION (IPCEA)
  - NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA)
  - AMERICAN STANDARD ASSOCIATION (ASA)
  - NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) AMERICAN NATIONAL STANDARD INSTITUTE (ANSI)
  - 2019 CALIFORNIA ELECTRICAL CODE (CEC), AS AMENDED BY THE 2019 CALIFORNIA ELECTRICAL CODE (CEC) 2019 CALIFORNIA ENERGY CODE
  - INSTITUTION OF ELECTRICAL AND ELECTRONIC ENGINEERS (IEEE) ALL LOCAL CODES HAVE JURISDICTION.
- WHERE THE CODES HAVE DIFFERENT LEVELS OF REQUIREMENTS, THE MOST STRINGENT RULE SHALL APPLY.
- 3. THE CONTRACTOR SHALL VISIT THE SITE INCLUDING ALL AREAS INDICATED ON THE DRAWINGS. HE SHALL THOROUGHLY FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS, AND BY SUBMITTING A BID ACCEPTS THE CONDITIONS UNDER WHICH HE SHALL BE REQUIRED TO PERFORM HIS WORK.
- 4. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN A COMPLETE SET OF CONTRACT DOCUMENTS. ADDENDA, DRAWINGS AND SPECIFICATIONS. HE SHALL CHECK THE DRAWINGS OF THE OTHER TRADES AND SHALL CAREFULLY READ THE ENTIRE SPECIFICATIONS AND DETERMINE HIS RESPONSIBILITIES. FAILURE TO DO SO SHALL NOT RELEASE THE CONTRACTOR FROM DOING THE WORK IN COMPLETE ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS.
- 5. ALL UTILITY WORK (POWER) SHALL BE IN COMPLIANCE WITH THESE DRAWINGS AND THE REQUIREMENTS OF THE SERVING UTILITY COMPANY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE SERVING UTILITY TO RECEIVE COMPLETE INFORMATION ON THEIR REQUIREMENTS PRIOR TO THE SUBMISSION OF THE BID. THE ACT OF SUBMITTING THE BID SHALL CONSTITUTE ACCEPTANCE OF FULL RESPONSIBILITY BY THE CONTRACTOR TO INSTALL SERVICE IN COMPLIANCE WITH THE SERVING UTILITY AND THE CONTRACT DOCUMENTS.
- 6. ALL ITEMS SUCH AS SERVICE CONDUIT, CONDUCTORS, DUCTS, CONCRETE PADS, TRANSFORMERS, RISERS. MANHOLES, PULL BOXES, AND PROTECTIVE COVERING FROM SERVICE LOCATION SHALL BE PROVIDED AND INSTALLED, AND SHALL BE VERIFIED WITH THE SERVING UTILITY COMPANY. THE CONTRACTOR SHALL INSTALL THE SERVICE IN COMPLIANCE WITH THE SERVING UTILITY COMPANY, AND SHALL PAY ALL CHARGES LEVIED BY THE SERVING UTILITY COMPANY FOR HIS SERVICE EXCEPT THE FIRST BILLING DEPOSIT. WHERE THE CONTRACT DOCUMENTS ARE MORE RESTRICTIVE, THE DOCUMENTS SHALL GOVERN.
- 7. THE CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, FEES, CHARGES, AND INCIDENTAL COSTS NECESSARY FOR EXECUTION AND COMPLETION OF ELECTRICAL WORK, INCLUDING ALL CHARGES BY STATE, COUNTY AND LOCAL GOVERNMENTAL AGENCIES AND UTILITY COMPANY.
- 8. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES AT THE SITE. ANY COSTS TO INSTALL WORK TO ACCOMPLISH SAID COORDINATION WHICH DIFFERS FROM THE WORK AS SHOWN ON THE DRAWINGS SHALL BE INCURRED BY THE CONTRACTOR. ANY DISCREPANCIES, AMBIGUITIES OR CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE [ARCHITECT DURING BID TIME FOR CLARIFICATION. ANY SUCH CONFLICTS NOT CLARIFIED PRIOR TO BID SHALL BE SUBJECT TO THE INTERPRETATION OF THE ARCHITECT AT NO ADDITIONAL COST TO THE OWNER.
- 9. THE CONTRACTOR SHALL PROVIDE AND KEEP UP-TO-DATE A COMPLETE RECORD SET OF DRAWINGS. THESE PRINTS SHALL BE CORRECTED DAILY AND SHOW EVERY CHANGE FROM THE ORIGINAL DRAWINGS. THIS SET OF DRAWINGS SHALL BE KEPT ON THE JOB SITE AND SHALL BE USED ONLY AS A RECORD SET. THIS SHALL NOT BE CONSTRUED AS AUTHORIZATION FOR THE CONTRACTOR TO MAKE CHANGES IN THE LAYOUT WITHOUT DEFINITE INSTRUCTION IN EACH CASE. UPON COMPLETION OF THE WORK, A SET OF REPRODUCIBLE CONTRACT DRAWINGS SHALL BE OBTAINED FROM THE ARCHITECT, AND ALL CHANGES AS NOTED ON THE RECORD SET OF DRAWINGS SHALL BE INCORPORATED THEREON WITH BLACK INK IN A NEAT, LEGIBLE, UNDERSTANDABLE AND PROFESSIONAL MANNER, FAILURE TO KEEP RECORD DRAWINGS UP-TO-DATE SHALL CONSTITUTE CAUSE FOR WITHHOLDING OF PROGRESS PAYMENTS.
- 10. IN SOME INSTANCES, IT MAY BE NECESSARY TO DEFER WORK IN CERTAIN AREAS AND LOCATIONS UNTIL SUCH TIME AS EXISTING FACILITIES CAN BE TEMPORARILY OR PERMANENTLY REARRANGED BY THE OWNER. THEREFORE, WHENEVER IT BECOMES NECESSARY FOR THE CONTRACTOR TO PERFORM WORK UNDER THIS CONTRACT IN EXISTING AREAS IN WHICH THE OWNER'S WORK IS BEING PERFORMED, THE CONTRACTOR SHALL ADVISE THE ARCHITECT AND THE OWNER RELATIVE TO THIS REQUIREMENT AND SHALL FOLLOW CLOSELY THE DIRECTIVE ISSUED BY THE ARCHITECT INSOFAR AS TIME AND PROCEDURE ARE CONCERNED. THE CONTRACTOR SHALL INCLUDE IN HIS BID ALL PREMIUM TIME TO WHICH HE MAY BE SUBJECTED FOR PERFORMING WORK IN SUCH PROCEDURE AND AT SUCH TIMES AS MAY BE NECESSARY TO CAUSE THE LEAST INTERFERENCE WITH THE OPERATIONS OF THE OWNER.
- 11. ALL INTERRUPTION OF ELECTRICAL POWER SHALL BE KEPT TO A MINIMUM. HOWEVER, WHEN AN INTERRUPTION IS NECESSARY. THE SHUTDOWN MUST BE COORDINATED WITH THE OWNER AND ARCHITECT 14 CALENDAR DAYS PRIOR TO THE OUTAGE. ANY OVERTIME PAY SHALL BE INCLUDED IN THE CONTRACTOR'S BID. WORK IN EXISTING SWITCHBOARDS OR PANELBOARDS SHALL BE COORDINATED WITH THE OWNER PRIOR TO REMOVING ACCESS PANELS OR DOORS.
- 12. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE TEMPORARY POWER FACILITIES AND CONNECTIONS FOR ALL FEEDERS OR SYSTEMS BEING DISCONNECTED IN ORDER TO MAINTAIN SYSTEMS IN OPERATION OR WHERE SAID FEEDERS OR SYSTEMS REQUIRE EMERGENCY STANDBY POWER.
- 13. SHOP DRAWINGS SHALL BE SUBMITTED WITHIN THIRTY DAYS AFTER AWARD OF THE CONTRACT. THE CONTRACTOR SHALL SUBMIT FIVE COPIES OF A COMPLETE LIST OF MATERIALS AND EQUIPMENT INCLUDING MANUFACTURER AND MODEL NUMBER PROPOSED FOR THE JOB. SHOP DRAWINGS SHALL INCLUDE JOB DESCRIPTION, ARCHITECT AND ENGINEER IDENTIFICATION, AND ALL DATA WITH CAPACITIES, SIZES, DIMENSIONS, CATALOG NUMBERS, AND MANUFACTURER'S BROCHURES. SHOP DRAWINGS shall BE SUBMITTED FOR ITEMS LISTED IN SPECIFICATIONS. PARTIAL, INCOMPLETE, OR UNBOUND SUBMITTALS WILL BE RETURNED WITHOUT REVIEW. CONTRACTOR SHALL SUBMIT A SCHEDULE OF ALL SHOP DRAWINGS AND SUBMITTALS WHICH ARE TO BE REVIEWED WITHIN FIFTEEN CALENDAR DAYS OF CONTRACT AWARD.
- 14. AFTER ALL REQUIREMENTS OF THE SPECIFICATIONS AND/OR THE DRAWINGS HAVE BEEN FULLY COMPLETED, REPRESENTATIVES OF THE OWNER WILL INSPECT THE WORK. THE CONTRACTOR SHALL PROVIDE COMPETENT PERSONNEL TO DEMONSTRATE THE OPERATION OF ANY ITEM OR SYSTEM TO THE FULL SATISFACTION OF EACH REPRESENTATIVE. FINAL ACCEPTANCE OF THE WORK WILL BE MADE BY THE OWNER AFTER RECEIPT OF APPROVAL AND RECOMMENDATION OF ACCEPTANCE FROM EACH REPRESENTATIVE.
- 15. THE CONTRACTOR SHALL FURNISH A ONE YEAR WRITTEN GUARANTEE OF MATERIALS AND WORKMANSHIP FROM THE DATE OF SUBSTANTIAL COMPLETION.
- 16. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW AND TO COORDINATE WITH THE MECHANICAL, FIRE PROTECTION AND PLUMBING DRAWINGS FOR DUCTS, LINES AND EQUIPMENT.
- 17. ALL EQUIPMENT MOUNTED ON ROOF FOR CONNECTION OF HVAC EQUIPMENT SHALL BE MOUNTED ON UNISTRUT STANDS UTILIZING APPROVED PITCH POCKETS, FLASHING, ETC.
- 18. ALL FINAL CONNECTIONS TO OWNER FURNISHED EQUIPMENT SHALL BE MADE BY THE CONTRACTOR.
- 19. COORDINATE WITH OTHER TRADES AS TO THE EXACT LOCATION OF THEIR RESPECTIVE EQUIPMENT. SUPPLY POWER AND MAKE CONNECTION TO MOTORS AND EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS AS INDICATED ON THE SINGLE LINE DIAGRAM, ELECTRICAL DRAWINGS, AND DRAWINGS OF OTHER TRADES. REVIEW THE DRAWINGS OF OTHER TRADES FOR CONTROL DIAGRAMS, SIZE AND LOCATION OF EQUIPMENT. DISCONNECT SWITCHES, STARTERS, WIRING, CONTROLS, AND CONDUIT FOR MECHANICAL AND PLUMBING OPERATIONS SHALL BE PROVIDED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING MANUFACTURER'S SHOP DRAWINGS PRIOR TO ROUGHING IN ALL CONDUIT TO THIS EQUIPMENT
- 20. EXACT METHOD AND LOCATION OF CONDUIT PENETRATION AND OPENINGS IN CONCRETE WALLS OR FLOORS OR STRUCTURAL STEEL MEMBERS SHALL BE AS DIRECTED BY THE STRUCTURAL ENGINEER. PERFORM CORING, SAWCUTTING, PATCHING, AND REFINISHING OF EXISTING WALLS AND SURFACES WHEREVER IT IS NECESSARY TO PENETRATE. OPENINGS SHALL BE SEALED IN AN APPROVED METHOD TO MEET THE FIRE RATING OF THE PARTICULAR WALL, FLOOR OR CEILING. EXACT METHOD AND LOCATIONS OF CONDUIT PENETRATIONS AND OPENINGS IN CONCRETE WALLS OR FLOORS SHALL BE UL APPROVED.
- 21. CONNECTIONS TO VIBRATING EQUIPMENT AND SEISMIC SEPARATIONS: LIQUID-TIGHT FLEXIBLE STEEL CONDUIT IN DRY INTERIOR LOCATIONS. LIQUID TIGHT FLEXIBLE STEEL CONDUIT IN AREAS EXPOSED TO WEATHER, DAMP LOCATIONS, CONNECTIONS TO TRANSFORMER ENCLOSURES AND FINAL CONNECTIONS TO
- PROVIDE SEPARATE INSULATED EQUIPMENT GROUNDING CONDUCTOR IN FLEXIBLE CONDUIT RUNS. MAXIMUM LENGTH SHALL BE SIX FEET UNLESS OTHERWISE NOTED.

22. EQUIPMENT OUTLETS, LIGHTING FIXTURES, CONDUIT, WIRE, AND CONNECTION METHODS IN HVAC AIR-PLENUMS SHALL BE APPROVED FOR USE IN PLENUMS AND SHALL

GENERAL NOTES (AS APPLICABLE)

23. ROUTE EXPOSED CONDUIT AND CONDUIT ABOVE ACCESSIBLE CEILING SPACES PARALLEL AND PERPENDICULAR TO WALLS AND ADJACENT PIPING. ARRANGE CONDUIT TO MAINTAIN HEADROOM AND TO PRESENT A NEAT APPEARANCE.

CONFORM TO THE APPLICABLE LOCAL CODE.

- 24. CONDUIT SHALL NOT BE INSTALLED IN ANY FLOOR SLAB. CONDUIT SHALL BE INSTALLED CONCEALED IN THE CEILING SPACE, CONCEALED IN WALLS, OR 18" BELOW BOTTOM SLAB ON GRADE UNLESS NOTED OTHERWISE.
- 25. THE CONTRACTOR SHALL STRATEGICALLY LOCATE BOXES, ETC., IN AN ACCESSIBLE CEILING SPACE OR PROVIDE AN ACCESS PANEL FOR INACCESSIBLE CEILING SYSTEMS.
- 26. COORDINATE REQUIRED ACCESS DOORS IN NON-ACCESSIBLE CEILINGS TO SUIT FIELD CONDITIONS. THE EXACT SIZES AND PHYSICAL LOCATIONS SHALL SUIT ACCESSIBILITY AND CONSTRUCTION CONDITIONS. ACCESS DOORS SHALL BE PROVIDED IN OTHER SECTIONS OF THE SPECIFICATIONS. ACCESS DOORS SHALL HAVE A FIRE RATING EQUAL TO THE CEILING ASSEMBLY IN WHICH THEY ARE INSTALLED.
- 27. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAWCUTTING, TRENCHING. BACKFILLING, COMPACTION AND PATCHING OF CONCRETE AND ASPHALT AS REQUIRED TO PERFORM HIS WORK. ATTENTION IS CALLED TO THE FACT THAT THERE ARE EXISTING UNDERGROUND UTILITY LINES. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN TRENCHING FOR HIS WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER AND APPROVED REPAIR OF ANY AND ALL DAMAGES CAUSED BY HIM OR HIS WORK.
- 28. WHENEVER A DISCREPANCY IN QUANTITY OR SIZE OF CONDUIT, WIRE, EQUIPMENT DEVICES, CIRCUIT BREAKERS, GROUND FAULT PROTECTION SYSTEMS, ETC. (ALL MATERIALS), ARISES ON THE DRAWINGS OR SPECIFICATIONS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL MATERIAL AND SERVICES REQUIRED BY THE STRICTEST CONDITIONS NOTED ON THE DRAWINGS OR IN THE SPECIFICATIONS TO ENSURE COMPLETE AND OPERABLE SYSTEMS AS REQUIRED BY THE OWNER AND ARCHITECT/ENGINEER.
- 29. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY TYPE OF CEILING SYSTEMS AND TO FURNISH APPROVED LIGHTING FIXTURES OF THE TYPE REQUIRED FOR MOUNTING IN SUBJECT CEILING. WHERE FIXTURES ARE RECESSED IN PLASTER OR DRYWALL CEILINGS, THEY SHALL BE COMPLETE WITH NECESSARY MOUNTING HARDWARE AND PLASTER FRAMES.
- 30. ALL RECESSED LIGHTING FIXTURES, SPEAKERS, RECEPTACLES, SWITCHES, ETC., MOUNTED IN THE FIRE RATED CEILINGS OR WALLS SHALL BE ENCLOSED WITH AN APPROVED ENCLOSURE CARRYING THE SAME FIRE RATING AS THE CEILING OR WALL.
- 31. UTILITY PENETRATIONS OF ANY KIND IN FIRE AND SMOKE PARTITIONS AND CEILING ASSEMBLIES, SHALL BE FIRESTOPPED AND SEALED WITH AN APPROVED MATERIAL SECURELY INSTALLED.
- STEEL ELECTRICAL OUTLET BOXES WHICH DO NOT EXCEED 16 SQUARE INCHES IN AREA. NEED NOT BE PROTECTED IN ONE HOUR OR TWO HOUR FIRE RATED WALLS, PARTITIONS, CEILINGS, OR AREA SEPARATION UNLESS THEY:
  - OCCUR ON OPPOSITE SIDES OF THE WALL WITHIN 24 INCH HORIZONTAL DISTANCE OF ONE ANOTHER. IN THIS CASE, ONLY ONE OUTLET BOX NEED TO PROTECTED BY AN APPROVED FIRESTOP MATERIAL OR DETAIL TO CORRECT THIS
  - OCCUR IN COMBINATION WITH OUTLET BOXES OF ANY SIZE SUCH THAT THE AGGREGATE AREA OF UNPROTECTED OUTLET BOXES EXCEEDS 100 SQUARE INCHES IN ANY 100 SQUARE FEET OF WALL AREA. IN THIS CASE, ONLY A SUFFICIENT NUMBER OF OUTLET BOXES NEED BE PROTECTED BY AN APPROVED MATERIAL OR DETAIL TO DECREASE THE AGGREGATE AREA OF UNPROTECTED UTILITY BOXES TO LESS THAN 100 SQUARE INCHES IN ANY 100 SQUARE FEET OF
- STEEL ELECTRICAL OUTLET BOXES WHICH EXCEED 16 SQUARE INCHES IN AREA, AND ALL OTHER STEEL UTILITY OUTLET BOXES REGARDLESS OF SIZE, SHALL BE PROTECTED BY AN APPROVED FIRESTOP MATERIAL AS LISTED OR EQUAL.

FIRESTOPPING MATERIAL:

MPP-1 MOLDABLE PUTTY PADS 3M CONTRACTOR PRODUCTS MINNEAPOLIS, MN

FSP FIRESTOP PUTTY PADS HEVI-DUTY NELSON PRODUCTS TULSA, OK

FLAMESAFE FSP 1077 FIRESTOP PADS INTERNATIONAL PROTECTIVE COATINGS

STEEL UTILITY BOXES WHICH EXCEED 100 SQUARE INCHES IN AREA SHALL BE PROTECTED

OAKHURST, NJ

- UTILITY AND ELECTRICAL OUTLETS OR BOXES SHALL BE SECURELY FASTENED TO THE STUD OF FRAMING OF THE WALL, PARTITION OR CEILING ASSEMBLY. THE OPENING IN THE GYPSUM BOARD FACING SHALL BE CUT SO THAT THE CLEARANCE BETWEEN THE BOX AND THE GYPSUM BOARD DOES NOT EXCEED 1/8 INCH. IN SMOKE WALLS OR PARTITIONS, THE 1/8 INCH CLEARANCE SHALL BE FILLED WITH AN APPROVED FIRE-RATED SEALANT.
- 32. ARCHITECTURAL REFLECTED CEILING PLANS INDICATING THE LOCATION OF LIGHTING FIXTURES SHALL TAKE PRECEDENCE OVER THE LOCATIONS OF SAME SHOWN ON THE ELECTRICAL DRAWINGS. INSTALL THE LIGHTING FIXTURES IN ANY GIVEN AREA TO AGREE WITH THE REFLECTED CEILING PLANS. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.
- 33. THE EXACT LOCATIONS AND MOUNTING HEIGHTS OF LIGHTING FIXTURES LOCATED IN MECHANICAL EQUIPMENT SPACES AND PENTHOUSES SHALL BE COORDINATED IN THE FIELD BEFORE INSTALLATION TO AVOID INTERFERENCE WITH DUCTS, PIPING, AND OTHER MECHANICAL EQUIPMENT. WHEN LOCATIONS AND MOUNTING HEIGHTS ARE DETERMINED, OBTAIN APPROVAL FROM THE ARCHITECT.
- 34. LIGHT FIXTURE SUPPORT:
  - SUSPENDED ACOUSTICAL CEILINGS:
  - <u>HEAVY DUTY GRID SYSTEM: FLUSH OR RECESSED LIGHT FIXTURES</u> WEIGHING LESS THAN 56 POUNDS MAY BE SUPPORTED DIRECTLY ON THE RUNNERS OF A HEAVY DUTY GRID SYSTEM. IN ADDITION, THEY SHALL HAVE A MINIMUM OF TWO 12 GAUGE SLACK SAFETY WIRES ATTACHED TO THE FIXTURE AT DIAGONAL CORNERS AND ANCHORED TO THE STRUCTURE ABOVE. ALL 4 FOOT BY 4 FOOT LIGHT FIXTURES SHALL HAVE SLACK SAFETY WIRES AT EACH CORNER.
  - ALL FLUSH OR RECESSED LIGHT FIXTURES WEIGHING 56 POUNDS OR MORE SHALL BE INDEPENDENTLY SUPPORTED BY NOT LESS THAN FOUR TAUT 12 GAUGE WIRES EACH ATTACHED TO THE FIXTURE AND TO THE STRUCTURE ABOVE REGARDLESS OF THE TYPE OF CEILING GRID SYSTEM USED. THE FOUR TAUT 12 GAUGES WIRES INCLUDING THEIR ATTACHMENT TO THE STRUCTURE ABOVE SHALL BE CAPABLE OF SUPPORTING FOUR TIMES THE WEIGHT OF THE UNIT.
  - INTERMEDIATE DUTY GRID SYSTEM: ALL FIXTURES SUPPORTED ON INTERMEDIATE DUTY GRID SYSTEMS SHALL BE INDEPENDENTLY SUPPORTED BY NOT LESS THAN FOUR TAUT 12 GAUGE WIRES EACH ATTACHED TO THE FIXTURE AND TO THE STRUCTURE ABOVE.
  - SURFACE MOUNTED FIXTURES: SUPPORT SURFACE MOUNTED LIGHT FIXTURES BY AT LEAST TWO POSITIVE DEVICES WHICH SURROUND THE CEILING RUNNER AND WHICH ARE EACH SUPPORTED FROM THE STRUCTURE ABOVE BY A 12 GAUGE WIRE. SPRING CLIPS OR CLAMPS THAT CONNECT ONLY TO THE RUNNER ARE NOT ACCEPTABLE. PROVIDE ADDITIONAL SUPPORTS WHEN LIGHT FIXTURES ARE EIGHT FEET OR LONGER.
  - PENDANT MOUNTED FIXTURES: SUPPORT PENDANT MOUNTED LIGHT FIXTURES DIRECTLY FROM THE STRUCTURE ABOVE WITH HANGER WIRES OR CABLES PASSING THROUGH EACH PENDANT HANGER, AND CAPABLE OF SUPPORTING FOUR TIMES THE WEIGHT OF THE FIXTURE.

SUSPENDED DRYWALL CEILINGS:

- ALL RECESSED OR DROP-IN LIGHT FIXTURES SHALL BE SUPPORTED DIRECTLY BY MAIN RUNNERS OR BY SUPPLEMENTAL FRAMING WHICH IS SUPPORTED BY MAIN RUNNERS. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THE CEILING CONTRACTOR TO PROVIDE APPROPRIATE FRAMING AND LOCATION FOR FIXTURES.
- SURFACE MOUNTED FIXTURES SHALL BE ATTACHED TO A MAIN RUNNER WITH A POSITIVE CLAMPING DEVICE MADE OF MATERIAL WITH A MINIMUM OF 14 GAUGE. ROTATIONAL SPRING CATCHES SHALL NOT BE ALLOWED.
- EXISTING CEILING FIXTURES REMOVED TO ACCOMPLISH THE WORK SHALL BE REINSTALLED AS FOR NEW WORK.
- 35. REFER TO SINGLE LINE DIAGRAM AND FEEDER SCHEDULES FOR CONDUIT AND CONDUCTOR SIZE TO PANELS, TRANSFORMERS, MECHANICAL AND PLUMBING EQUIPMENT, ETC. CONDUIT RUNS MAY NOT BE SHOWN ON DRAWINGS, BUT ARE PART OF THIS CONTRACT
- 36. STRAIGHT FEEDER, BRANCH CIRCUIT, AND CONDUIT RUNS SHALL BE PROVIDED WITH SUFFICIENT PULL BOXES OR JUNCTION BOXES TO LIMIT THE MAXIMUM LENGTH OF ANY SINGLE CABLE PULL TO 100 FEET. PULL BOXES SHALL BE SIZED PER CODE OR AS INDICATED ON DRAWINGS. LOCATIONS SHALL BE DETERMINED IN THE FIELD OR AS INDICATED ON THE DRAWINGS.
- 37. MAXIMUM NUMBER OF CONDUCTORS IN OUTLET OR JUNCTION BOXES SHALL CONFORM TO THE 2019 CALIFORNIA ELECTRICAL CODE, ARTICLE 314.16(A) BUT IN NO CASE SHALL CONTAIN MORE THAN THE FOLLOWING NUMBER OF #12 AWG CONDUCTORS FOR THE SIZE OF BOX INDICATED. THE MINIMUM SIZE OUTLET OR JUNCTION BOX PERMITTED IN A WALL IS FOUR INCHES SQUARE BY 1-1/2 INCHES DEEP.

SQ. BY 1-1/2'D = 9 CONDUCTORS = 13 CONDUCTORS SQ. BY 2-1/8" D SQ. BY 1-1/2" D = 11 CONDUCTORS SQ. BY 2-1/8" D = 18 CONDUCTORS

- ALL OUTLET BOXES CONTAINING MORE THAN ONE DEVICE SHALL BE GANGED. TWO DEVICES DOUBLE GANGED, MINIMUM.
- 38. WHERE MULTI-HOMERUNS ARE INDICATED ON DRAWINGS INDICATING THE SAME PANELBOARD CIRCUIT NUMBER, PROVIDE JUNCTION BOX ABOVE ACCESSIBLE CEILING AND ROUTE ONE SET OF WIRES TO CIRCUIT BREAKERS.
- 39. THE NUMERALS SHOWN AT TOP OF LIGHT FIXTURE IDENTIFICATION SYMBOLS INDICATING THE NUMBER OF LIGHT FIXTURES REQUIRED SHALL NOT BE USED BY THE CONTRACTOR FOR HIS QUANTITY TAKE-OFF AT BIDDING, NOR FOR DETERMINATION OF HOW MANY FIXTURES WILL BE INSTALLED. THE CONTRACTOR SHALL INSTALL A LIGHT FIXTURE WHEREVER A FIXTURE OUTLET IS SHOWN ON THE DRAWINGS.
- 40. RECESSED PANELS AND CABINETS SHALL HAVE FIVE SPARE 3/4 INCH CONDUITS STUBBED UP INTO AN ACCESSIBLE CEILING SPACE AND CAPPED UNLESS OTHERWISE NOTED.
- 41. IDENTIFICATION NAMEPLATES SHALL BE MICARTA 1/8 INCH THICK AND OF APPROVED SIZE WITH BEVELED EDGES AND ENGRAVED WHITE LETTERS A MINIMUM OF 1/4 INCH HIGH ON BLACK BACKGROUND. NAMEPLATES SHALL BE PROVIDED FOR ALL CIRCUITS IN THE SERVICE DISTRIBUTION AND POWER DISTRIBUTION SWITCHBOARDS OR PANELBOARDS, MOTOR CONTROL CENTERS, LIGHTING DISTRIBUTION PANELBOARDS, SEPARATELY MOUNTED STARTING SWITCHES, DISCONNECTING SWITCHES, MOTOR CONTROL PUSHBUTTON STATIONS, SELECTOR SWITCHES, TRANSFORMERS, TERMINAL CABINETS, TELEPHONE CABINETS, ETC. ALL NAMEPLATES SHALL BE ATTACHED WITH SCREWS. PULL BOXES, JUNCTION BOXES, AND DEVICE BOXES SHALL BE MARKED WITH A PERMANENT MARKER.
- 42. THE EXACT LOCATION OF ALL ELECTRICAL DEVICES AND EQUIPMENT SHALL BE COORDINATED WITH THE ARCHITECTURAL ELEVATIONS, DETAILS, OR SECTIONS PRIOR TO INSTALLATION. ALL ELECTRICAL DEVICES AND EQUIPMENT SHALL BE RECESSED IN WALLS UNLESS OTHERWISE NOTED. OUTLETS NOT INDICATED ON ARCHITECTURAL ELEVATIONS SHALL BE COORDINATED WITH THE ARCHITECT PRIOR TO ROUGH-IN. UNLESS OTHERWISE NOTED, MOUNT ELECTRICAL DEVICES AT THE FOLLOWING HEIGHTS:

CONVENIENCE RECEPTACLE TELEPHONE/DATA OUTLETS **OUTLETS AT COUNTERS** 

+4'-0" SET VERTICALLY TO TOP OF OUTLET BOX +1'-6" SET VERTICALLY TO CENTER OF DEVICE +1'-6" SET VERTICALLY TO CENTER OF DEVICE ABOVE COUNTERS WITHOUT +6" SPLASHES OR CENTERED IN

SPLASH SET HORIZONTALLY

- GENERAL USE ELECTRICAL RECEPTACLE, SWITCH AND CONTROL OUTLETS SHALL BE LOCATED NO MORE THAN 48 INCHES TO THE TOP OF THE OUTLET BOX NOR LESS THAN 15 INCHES TO THE BOTTOM OF THE OUTLET BOX ABOVE THE FINISHED FLOOR. [CBC 11B-308.1, 11B-308.2]
- REVIEW ARCHITECTURAL ELEVATIONS OF CASEWORK. OUTLETS MOUNTED ABOVE OR BELOW, OR ADJACENT TO CASEWORK SHALL BE COORDINATED WITH THE ARCHITECTURAL DRAWINGS. PRIOR TO FINAL ROUGH-IN. ELECTRICAL DRAWINGS SHALL GOVERN NUMBER AND TYPE OF OUTLETS. HOWEVER, LOCATIONS SHALL BE AS INDICATED ON ARCHITECTURAL ELEVATIONS. PROVIDE CONDUIT, WIRES, AND OUTLETS FOR WORK REQUIRED IN CASEWORK INSTALLATIONS. REFERENCE ARCHITECTURAL DETAILS FOR METHOD OF ROUTING CONDUIT WITHIN CASEWORK CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CUT-OUTS IN TILE OR COUNTER SPLASHES WHERE RECEPTACLES, OUTLETS, ETC., OCCUR. PROVIDE BOX EXTENSIONS THROUGH ALL CASEWORK. FINISH FLUSH WITH FACE OF SPLASH, CABINET, ETC.
- MOUNTING HEIGHTS OF ALL DEVICES AND EQUIPMENT ARE FROM FINISHED FLOOR TO CENTER OF DEVICES AND EQUIPMENT UNLESS OTHERWISE NOTED. BOXES INSTALLED IN LOCATIONS NOT APPROVED BY THE ARCHITECT SHALL BE RELOCATED AS DIRECTED BY THE ARCHITECT AT NO ADDITIONAL COST TO THE OWNER.
- 43. DRAWINGS ARE DIAGRAMMATIC ONLY. ROUTING OF RACEWAYS SHALL BE AT THE OPTION OF THE CONTRACTOR UNLESS OTHERWISE NOTED AND SHALL BE COORDINATED WITH OTHER SECTIONS. DO NOT SCALE THE ELECTRICAL DRAWINGS FOR LOCATIONS OF ANY ELECTRICAL, ARCHITECTURAL, STRUCTURAL, CIVIL, OR MECHANICAL ITEMS OR FEATURES.
- 44. THE EQUIPMENT GROUNDING CONDUCTOR WHETHER SHOWN OR NOT ON CONDUIT RUNS SHALL RUN CONTINUOUS FROM PANEL TO LAST OUTLET. THIS WIRE SHALL BE PIGTAILED IN EACH OUTLET FOR CONNECTION TO BOX AND DEVICE SO THAT IF DEVICE IS REMOVED, GROUND WILL NOT BE INTERRUPTED. ALL EQUIPMENT GROUNDING CONDUCTORS SHALL BE INSULATED GREEN CONDUCTORS - ALTERNATE METHODS OF IDENTIFICATION SHALL NOT BE USED. CONTRACTOR SHALL NOTIFY ELECTRICAL ENGINEER TO EXAMINE CONDUCTOR INSTALLATION PRIOR TO INSTALLATION OF DEVICES.
- 45. REFERENCE ARCHITECTURE AND STRUCTURAL DRAWINGS FOR HOUSEKEEPING PADS.
- 46. FURNISH AND INSTALL POWER DISTRIBUTION PANELBOARDS AS INDICATED ON THE DRAWINGS. PANELBOARDS SHALL COMPLY WITH NEMA STANDARD FOR PANELBOARDS AND FEDERAL SPECIFICATION W-P-115A. PANELBOARDS SHALL BE COMPLETE WITH COPPER BUS BARS AND 40 DEGREE CELSIUS THERMAL MAGNETIC BOLT-ON TYPE CIRCUIT BREAKERS AS INDICATED ON DRAWINGS. PANELBOARDS SHALL BE SQUARE D OR EQUAL BY SIEMENS, ITE, WESTINGHOUSE, OR GENERAL ELECTRIC.
- 47. RECEPTACLES SHALL BE SPECIFICATION GRADE, 20 AMP, NEMA 5-20R GROUNDING TYPE HUBBELL #8300, OR EQUAL BY PASS & SEYMOUR OR GENERAL ELECTRIC. COLOR SHALL BE SELECTED BY ARCHITECT.
- 48. SWITCHES SHALL BE 20 AMP, 120/277 VOLT RATED SILENT TYPE SPECIFICATION GRADE HUBBELL OR EQUAL BY PASS & SEYMOUR OR GENERAL ELECTRIC. COLOR SHALL BE SELECTED BY ARCHITECT.
- 49. DEVICE PLATES SHALL BE NYLON FOR THE NUMBER OF GANGS AND TYPE OF OPENINGS NECESSARY, HUBBELL OR EQUAL BY PASS & SEYMOUR OR GENERAL ELECTRIC. COLOR SHALL BE SELECTED BY ARCHITECT. PLATES SHALL BE ENGRAVED WITH PANEL AND CIRCUIT NUMBER.
- 50. RIGID GALVANIZED STEEL CONDUIT SHALL BE FULL WEIGHT TREADED TYPE ALUMINUM OR STEEL. ELECTRICAL METALLIC TUBING (EMT) MAY BE USED IN WALLS OR CEILING SPACES WHERE NOT SUBJECT TO MECHANICAL DAMAGE. PVC SCHEDULE 40 MAY BE INSTALLED BENEATH SLAB OR BELOW GRADE. FLEXIBLE STEEL CONDUIT MAY BE USED AT FIXTURE AND OUTLET CONNECTIONS WITH NO RUNS LONGER THAN SIX FEET. AN EQUIPMENT GROUNDING CONDUCTOR SHALL BE PROVIDED IN ALL CONDUIT RUNS.

- 51. RIGID GALVANIZED STEEL CONDUIT FITTINGS SHALL BE THREADED AND THOROUGHLY GALVANIZED. ELECTRICAL METALLIC TUBING (EMT) CONDUIT FITTINGS SHALL BE STEEL, RAINTIGHT THREADLESS COMPRESSION TYPE, DIE CAST, SET SCREW, OR INDENTER TYPES ARE NOT ACCEPTABLE. FLEXIBLE STEEL CONDUIT FITTINGS SHALL BE MALLEABLE IRON CLAMP, SQUEEZE TYPE OR STEEL TWIST-IN TYPE WITH INSULATED THROAT. SET SCREW TYPE IS NOT ACCEPTABLE.
- 52. FOR SMALL AC MOTORS NOT HAVING BUILT-IN THERMAL OVERLOAD PROTECTION, PROVIDE MANUAL MOTOR STARTERS WITH OVERLOAD HEATER ELEMENTS SIZED TO THE NAMEPLATE CURRENT RATING OF THE MOTOR. SMALL AC MOTORS WITH BUILT-IN THERMAL OVERLOAD PROTECTION, PROVIDE A HORSEPOWER RATED TOGGLE TYPE DISCONNECT
- 53. SAFETY SWITCHES SHALL BE HEAVY DUTY NEMA TYPE HD BY SQUARE D, SIEMENS, GENERAL ELECTRIC OR WESTINGHOUSE. SWITCHES SHALL BE RATED FOR THE NUMBER OF POLES. VOLTAGE. CURRENT AND HORSEPOWER RATING AS REQUIRED. PROVIDE FUSE
- PROTECTION BASED ON THE MOTOR NAMEPLATE RATINGS. 54. TERMINAL CABINETS SHALL BE GALVANIZED CODE SHEET STEEL. FLUSH OR SURFACE MOUNTED AS INDICATED ON THE DRAWINGS, OF IDENTICAL MANUFACTURE AS BRANCH
- CIRCUIT PANELS. FLUSH MOUNTED CABINETS SHALL BE PRIMED AND PAINTED. FINISH COLOR AS SELECTED BY ARCHITECT. 55. ALL CONDUCTORS SHALL BE COPPER #12 AWG MINIMUM SIZE, TYPE THHN/THWN THERMOPLASTIC, 600 VOLT, 75 DEGREES CELSIUS WET AND 90 DEGREES CELSIUS DRY AND
- SOLID. CONDUCTORS # 10 AWG AND LARGER SHALL BE STRANDED. 56. JUNCTION AND PULL BOXES: FOR INTERIOR DRY LOCATIONS, BOXES SHALL BE GALVANIZED ONE-PIECE, DRAWN STEEL, KNOCKOUT TYPE WITH REMOVABLE MACHINE SCREW SECURED COVERS. FOR OUTSIDE, DAMP, OR SURFACE LOCATIONS, BOXES SHALL BE HEAVY CAST ALUMINUM OR CAST IRON WITH REMOVABLE, GASKETED, NON-FERROUS MACHINE SCREW SECURED COVERS. BOXES SHALL BE SIZED FOR THE NUMBER AND SIZES OF CONDUCTORS AND CONDUIT ENTERING THE BOX AND EQUIPPED WITH PLASTER EXTENSION RINGS WHERE REQUIRED. BOXES SHALL BE LABELED TO INDICATE PANEL AND

UL LISTED UNLESS NOTED OTHERWISE. CONDUCTORS #12 AWG AND SMALLER SHALL BE

- CIRCUIT NUMBER, OR TYPE OF SIGNAL OR COMMUNICATIONS SYSTEM. 57. WHERE LIGHTING FIXTURES REQUIRE THE USE OF ACRYLIC PLASTIC LENSES, THEY SHALL BE 100 PERCENT VIRGIN ACRYLIC THERMOPLASTIC NOT LESS THAN 0.125 INCHES THICK WITH AN UNPENETRATED DEPTH OF NOT LESS THAN 0.045 INCHES EQUAL TO KSH-K12 UNLESS NOTED OTHERWISE.
- 58. INSTALLATION OF THE FIRE ALARM SYSTEM SHALL NOT BE STARTED UNTIL DETAILED PLANS, SPECIFICATIONS AND ENGINEERING CALCULATIONS HAVE BEEN ACCEPTED AND SIGNED BY THE ARCHITECT IN GENERAL CHARGE OF DESIGN AND THE SIGNATURE OF THE ARCHITECT OR PROFESSIONAL ENGINEER WHO HAS BEEN DELEGATED RESPONSIBILITY COVERING THE WORK SHOWN ON A PARTICULAR PLAN OR SPECIFICATION, AND APPROVED BY FIRE MARSHALL THE FIRE ALARM SYSTEM INDICATED IN THESE DRAWINGS SHALL BE USED FOR BIDDING PURPOSES ONLY AND ARE NOT FOR CONSTRUCTION. THE CONTRACTOR SHALL SUBMIT FIRE ALARM SYSTEM SHOP DRAWINGS TO FIRE MARSHALL FOR APPROVAL PRIOR TO INSTALLATION. SYSTEM SHALL MEET THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS.
- 59. EVERY CIRCUIT AND CIRCUIT MODIFICATION SHALL BE LEGIBLY IDENTIFIED AS TO ITS CLEAR, EVIDENT, AND SPECIFIC PURPOSE OR USE. THE IDENTIFICATION SHALL INCLUDE SUFFICIENT DETAIL TO ALLOW EACH CIRCUIT TO BE DISTINGUISHED FROM ALL OTHERS. THE IDENTIFICATION SHALL BE INCLUDED IN A CIRCUIT DIRECTORY THAT IS LOCATED ON THE FACE OR INSIDE OF THE PANEL DOOR IN THE CASE OF A PANELBOARD, AND LOCATED AT EACH SWITCH OR CIRCUIT BREAKER IN A SWITCHBOARD.
- 60. ALL ELECTRICAL EQUIPMENT SHALL BE LISTED OR CERTIFIED BY THE AHJ RECOGNIZED ELECTRICAL TESTING LABORATORY OR APPROVED BY THE DEPARTMENT. 61. ALL SERVICE, FEEDERS OR BRANCH CIRCUITS SUPPLYING A BUILDING SHALL HAVE COMMON GROUNDING ELECTRODE SYSTEM, 250.58.
- 62. ALL GROUNDING ELECTRODES THAT ARE PRESENT AT EACH BUILDING OR STRUCTURE SHALL BE BONDED TOGETHER, 250.122. 63. ALL EQUIPMENT FASTENED IN PLACE OR CONNECTED BY PERMANENT WIRING METHOD
- SHALL BE GROUNDED, 250.110 & 112. **GENERAL NOTE:**
- COORDINATE WORK WITH ALL TRADES AT THE SITE. COSTS TO INSTALL WORK TO ACCOMPLISH SAID COORDINATION WHICH DIFFERS FROM THE WORK AS SHOWN ON THE PLANS SHALL BE INCURRED BY THE CONTRACTOR. ANY DISCREPANCIES, AMBIGUITIES OR CONFLICTS IN THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD DURING BID TIME FOR CLARIFICATION. ANY SUCH CONFLICTS NOT CLARIFIED PRIOR TO BID SHALL BE SUBJECT TO THE INTERPRETATION OF THE ENGINEER OF RECORD AT NO ADDITIONAL COST TO THE OWNER OR ENGINEER OF RECORD.

### **ELECTRICAL SHEET INDEX** Sheet # Sheet Name E0.1 ELECTRICAL GENERAL NOTES E0.2 LEGEND AND NOTES E2.1 ELECTRICAL POWER PLAN ELECTRICAL LIGHTING PLAN ELECTRICAL SINGLE LINE DIAGRAM AND LOAD CALCULATIONS E4.2 COMPLIANCE CERTIFICATION

MECHANICAL

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PROJECT#	-	
NUMBER	DESCRIPTION	DATE

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DRAWINGS PREPARED BY:

Riverside Engineering

TITLE: **ELECTRICAL GENERAL** NOTES

SHEET:

CONSULTING ENGINEERS

CONSULTANT STAMP

RD BORDEN

EXP. 06-30-2024

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**ABBREVIATIONS** ABOVE COUNTER AFC AVAILABLE FAULT CURRENT AFF ABOVE FINISHED FLOOR AHJ **AUTHORITY HAVING JURISDICTION** AMPERE INTERRUPTING CURRENT ALUMINUM ATS **AUTOMATIC TRANSFER SWITCH** AWG AMERICAN WIRE GAGE BRKR BREAKER CONDUIT CATV **COMMUNITY ANTENNA TELEVISION** CMIL **CIRCULAR MIL** CU COPPER DISC DISCONNECT EC **ELECTRICAL CONTRACTOR EQUIPMENT GROUNDING CONDUCTOR** EGC EM/EMER **EMERGENCY** FMT ELECTRICAL METALLIC TUBING ENT **ELECTRICAL NONMETALLIC TUBING** EX,EXIST EXISTING FLC FLEXIBLE METAL CONDUIT GROUND GEC GROUNDING ELECTRODE CONDUCTOR GFCI **GROUND-FAULT CIRCUIT INTERRUPTER** GFPE **GROUND-FAULT PROTECTION OF EQUIPMENT** HEATING, AIR CONDITIONING, AND REFRIGERATION HIGH INTENSITY DISCHARGE HP **HORSEPOWER** HVAC HEATING, VENTILATION AND AIR CONDITIONING HERTZ (CYCLE PER SECOND) INTERNATIONAL BONDING TERMINATION ISOLATED GROUND IMC INTERMEDIATE METAL CONDUIT KELVIN ONE THOUSAND CIRCULAR MILS **KCMIL** KVA KILOVOLT-AMPERES KVAR KILOVOLT-AMPERE REACTIVE KW KILOWATT LED LIGHT-EMITTING DIODE LRC LOCKED-ROTOR CURRENT MCB MAIN CIRCUIT BREAKER MG SET MOTOR-GENERATOR SET MLO MAIN LUGS ONLY MW MEGAWATTS NEC NATIONAL ELECTRICAL CODE (NFPA 70) NEMA NATIONAL ELECTRICAL MANUFACTURER ASSOCIATION NATIONAL FIRE PROTECTION ASSOCIATION NIGHTLIGHT POLE PART PARTIAL CIRCUIT PC **PHOTOCELL** POWER FACTOR PNLBD PANELBOARD PoE POWER OVER ETHERNET RMC RIGID METAL CONDUIT RNC RIGID NONMETALLIC CONDUIT RR RESTROOM RTU **ROOF TOP UNIT** SEC SECTION SPD SURGE-PROTECTION DEVICE SWD SWITCHING DUTY TR **TAMPER-RESISTANT** TS TIMESWITCH **TVSS** TRANSIENT VOLTAGE SURGE SUPPRESSOR TYP TYPICAL **UNDERWRITERS LABORATORIES** UNLESS NOTED OTHERWISE UNO UNINTERRUPTIBLE POWER SUPPLY UNIVERSAL SERIAL BUS VOLT **VOLT-AMPERE VOLTS ALTERNATING CURRENT** V AR **VOLTS-AMPERE REACTIVE** VOM **VOLT-OHM-MULTIMETER** WATT WATT-HOUR W-HR **WEATHERPROOF** WP

XFMR TRANSFORMER ABBREVIATIONS OF CABLES

WPT

ARMORED CABLE CATV COAXIAL GENERAL-PURPOSE CABLE

WIRELESS POWER TRANSFER

WIRELESS POWER TRANSFER EQUIPMENT

MC META-CLAD CABLE SE SERVICE-ENTRANCE CABLE

THERMOPLASTIC, HEAT AND MOISTURE RESISTANT CABLE

WEATHER RESISTANT

THHN

THERMOPLASTIC, HEAT RESISTANT CABLE, NYLON JACKET **OUTER SHEATH** 

THHW THWN

THERMOPLASTIC, MOISTURE AND HEAT RESISTANT CABLE. NYLON JACKET OUTER SHEATH

THERMOPLASTIC, HEAT AND MOISTURE RESISTANT CABLE

### **ELECTRICAL POWER GENERAL NOTES**

A. REMOVE ALL UNUSED CABLING, WIRE AND CONDUIT IN THIS SPACE. TERMINATE CONDUITS OUTSIDE ELECTRICAL ROOM WITH A JUNCTION BOX. TURN BREAKER OFF AND UPDATE PANEL DIRECTORY TO INDICATE SPARE BREAKER AND DATE OF CHANGE.

B. COORDINATE LOCATIONS OF ALL DEVICES AND JUNCTION BOXES WITH THE EQUIPMENT INSTALLER.

C. CONTRACTOR SHALL NOT INSTALL MORE THAN THREE CIRCUITS (3 PHASE WIRES, 1-NEUTRAL + 1-GROUND) IN A COMMON CONDUIT, EXCEPT WHERE SPECIFICALLY NOTED AND ALLOWED. WHERE MORE THAN THREE CURRENT CARRYING CONDUCTORS (EXAMPLE: 3 PHASE WIRES + 1 CURRENT CARRYING NEUTRAL CONDUCTOR) ARE INSTALLED IN A COMMON CONDUIT. THE AMPACITY OF ALL CURRENT-CARRYING CONDUCTORS SHALL BE DERATED PER 2017 NEC ARTICLE 310-15 (B)(2)(a).

EXAMPLE: (6)-20AMP CKTS WITH 8 CURRENT CARRYING WIRES IN A COMMON CONDUIT MUST USE MINIMUM #10 WIRE 70% X 35A = 24.5 AMPS. PROVIDE COMMON TRIP BREAKERS FOR MULTIWIRE CIRCUITS PER 2017 ARTICLE 210.4 (B).

ALL WORK PERFORMED IN THE BUILDING SHALL COMPLY WITH BUILDING MANAGEMENT CONTRACTOR RULES AND REGULATIONS.

E. ALL ELECTRICAL DEVICES, PENETRATIONS AND EQUIPMENT LOCATED WITHIN IDENTIFIED CLASSIFIED HAZARDOUS SPACES/AREAS SHALL BE PROVIDED AND INSTALLED PER SPECIFIED NEC CLASS & DIVISION SPACE SPECIFICATIONS AND REQUIREMENTS (CLASS 1, DIVISION 2 SPACE).

### **ELECTRICAL GENERAL NOTES**

### APPLIES TO ALL SHEETS:

- A. ALL ABONDONED CABLES AND CONDUIT MUST BE REMOVED BACK TO SOURCE
- B. ELECTRICAL PANEL SCHEDULES MUST BE LABELED ACCORDING TO THE DRAWINGS

C. ELECTRICAL PANEL SCHEDULES MUST BE COMPUTER GENERATED OR TYPEWRITTEN TO INCLUDE OFFICE AREA SERVED AND PLACED ON THE ELECTRICAL PANEL COVER.

D. ALL ELECTRICAL BOXES LOCATED ABOVE THE PLENUM MUST HAVE A COVER ON THEM, TO INCULDE J-BOX, GUTTER BOXES, ETC.

E. ALL FLOOR PENETRATIONS MUST BE PROPERLY SEALED.

F. PHONE/DATA CABLE SHALL BE INSTALLED IN A NEAT AND PROFESSIONAL APPEARANCE AND BE LABELED WITH THE EQUIPMENT IT FEEDS. WHERE THE RUN STARTS AND FINISHES AND THE VENDOR RESPONSIBLE FOR THE INSTALLATION.

G. FLEXIBLE METAL CONDUIT IS **NOT** PERMITTED BEYOND **15 FEET** IN LENGTH.

H. IT SHALL BE NOTED THAT ALL CIRCUITS WITHIN THE SUITE SHALL BE CIRCUIT TRACED TO ENSURE NONE ARE FED FROM A PANEL THAT IS BEING METERED BY

I. PROVIDE IECC COMPLIANCE CALCULATION/REPORT AS PART OF THIS SUBMITTAL FOR

J. CONTRACTOR SHALL REFERENCE AND FOLLOW ALL BUILDING RULES AND REGULATIONS.

K. THE SPACE EQUAL TO THE WIDTH AND DEPTH FOOTPRINT OF ELECTRICAL SERVICE EQUIPMENT INCLUDING SWITCHBOARDS, PANELBOARDS AND METERING EQUIPMENT MUST BE DEDICATED TO THE ELECTRICAL INSTALLTION EXTENDING FROM THE FLOOR TO A HEIGHT 6 FEET ABOVE THE EQUIPMENT. NO FOREIGN SYSTEMS, PIPING OR DUCTS ARE PERMITTED IN THIS AREA.

L. PERSONNEL DOORS IN ELECTRICAL ROOMS SHALL BE EQUIPPED WITH PANIC BARS, PRESSURE PLATES OR OTHER DEVICES THAT ARE NORMALLY LATCHED BUT OPEN UNDER SIMPLE PRESSURE. COORDINATE WITH ARCHITECT AND HARDWARE VENDOR.

### **ELECTRICAL LIGHTING GENERAL NOTES**

A. REFER TO ARCH, REFLECTED CEILING PLAN FOR EXACT LOCATION OF LIGHTING FIXTURES. VERIFY FIXTURE AND CEILING COMPATIBILITY PRIOR TO ORDERING FIXTURES.

B. FURNISH AND INSTALL SECURITY CLIPS ON ALL FOUR SIDES OF 2'X4', 2'X2' AND 1'X4' RECESSED FIXTURES. SEE GENERAL LIGHTING NOTE (LIGHTING FIXTURE SCHEDULE).

C. CONNECT ALL EXIT LIGHTS TO UN-SWITCHED POWER AHEAD OF ALL LIGHT SWITCHES AND LIGHTING CONTROL PANEL, EXIT LIGHTS ARE SWITCHED AT PANEL ONLY.

D. EXISTING FIXTURES: EXISTING FIXTURES INDICATED TO BE RE-USED SHALL BE CLEANED AND RE-LAMPED. E.C. TO EXAMINE CONDITION OF EXISTING BALLASTS, REPLACE IF NOISY AND/OR INOPERATIVE. ALL BALLASTS DATED BEFORE 1976 ARE PRESUMED TO CONTAIN PCB AND SHALL BE REMOVED BY E.C. DISPOSE OF SUCH BALLASTS IN STRICT COMPLIANCE WITH APPLICABLE FEDERAL AND STATE LAWS AND LOCAL ORDINANCES.

FIXTURE NOT INDICATED FOR RE-USE SHALL BE DELIVERED TO A LOCATION TO BE SPECIFIED BY OWNER. DISPOSE OF SUCH FIXTURES IF NOT NEEDED BY OWNER.

F. ALL WORK PERFORMED IN THE BUILDING SHALL COMPLY WITH BUILDING MANAGEMENT CONTRACTOR RULES AND REGULATIONS.

G. CONTRACTOR SHALL REFERENCE AND FOLLOW ALL BUILDING RULES AND REGULATIONS.

H. ALL ELECTRICAL DEVICES, PENETRATIONS AND EQUIPMENT LOCATED WITHIN IDENTIFIED CLASSIFIED HAZARDOUS SPACES/AREAS SHALL BE PROVIDED AND INSTALLED PER SPECIFIED NEC CLASS & DIVISION SPACE SPECIFICATIONS AND REQUIREMENTS (CLASS 1, DIVISION 2 SPACE).

### **FIRE ALARM SYSTEM NOTES:**

FIRE ALARM SYSTEM CONSTRUCTION DOCUMENTS FOR THE SCOPE OF WORK INDICATED IN THIS PROJECT SHALL BE SUBMITTED. CA FOR APPROVAL PRIOR TO COMMENCING FIRE ALARM WORK AND THE INSTALLATION MUST BE APPROVED BY THE LOCAL AUTHORITY HAVING JURISDICTION AFTER COMPLETION.

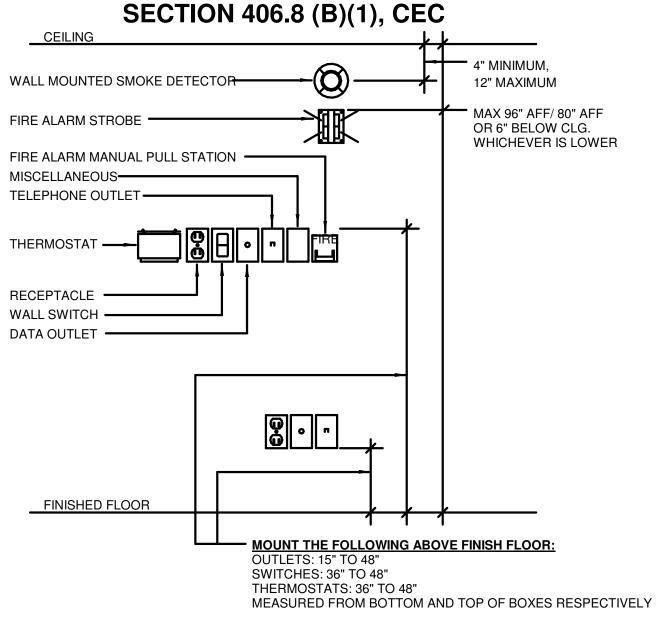
1. FOR THE SPACE SHOWN, PROVIDE A NEW, PERMANENT COMPLETE FIRE ALARM SYSTEM AND SEQUENCE OF OPERATION. COORDINATE WITH MECHANICAL AND PLUMBING DRAWINGS. REUSE ALL EXISTING DEVICES WHERE PRACTICAL AND PROVIDE NEW DEVICES MATCHING EXISTING DEVICES WHERE NECESSARY. COORDINATE DEVICE LOCATIONS WITH ARCHITECTURAL DRAWINGS. SUBMIT SHOP DRAWINGS AND SEQUENCE OF OPERATIONS TO ENGINEER FOR REVIEW.

2. ALL 120V. CIRCUITS REQUIRED FOR THE OPERATION OF THE FIRE ALARM SYSTEM SHALL BE INCLUDED. LOCATIONS OF ALL PANELS AND BOOSTERS SHALL BE COORDINATED WITH ARCHITECT. CONTRACTOR SHALL TEST THE SYSTEM IN THE PRESENCE OF LOCAL AUTHORITIES AND MAKE ALL REQUIRED MODIFICATIONS AND ADDITIONS TO THEIR DESIGN AT NO ADDITIONAL COST.

3. ALL WORK PERFORMED IN THE BUILDING SHALL COMPLY WITH BUILDING MANAGEMENT CONTRACTOR RULES AND REGULATIONS.

NOTE: GENERAL NOTES, LEGEND, DETAILS SHOWN AS APPLICABLE

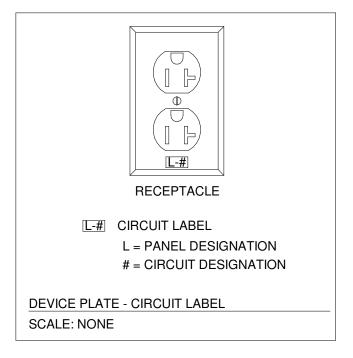
### PANEL CIRCUIT DIRECTORY TO COMPLY WITH SECTION 408.4, CEC W.P. COVER OF OUTLETS TO COMPLY WITH



### **MOUNTING HEIGHT DETAIL**

NOTE: ALL DEVICES SHOWN MAY NOT BE USED. DETAIL INDICATES TYPICAL MOUNTING HEIGHTS ONLY. MOUNTING HEIGHTS SHOWN ON THE ARCHITECT DRAWINGS AND SPECIFICATIONS TAKE PRECEDENCE. VERIFY EXACT MOUNTING HEIGHT REQUIRED WITH ARCHITECT AND INSTALL ACCORDINGLY.

APPLICABLE CODES: LATEST EDITION OF CODES ADOPTED BY LOCAL AUTHORITIES HAVING JURISDICTION, INCLUDING BUT NOT LIMITED TO NFPA 72 NATIONAL FIRE ALARM CODE **INTERNATIONAL BLDG CODE 2018** 



### LEGEND NOTES:

- THE WORD "PROVIDE" AS USED IN THESE DRAWINGS SHALL MEAN "MATERIALS AND LABOR FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR".
- MOUNTING HEIGHT OF ALL LIGHT SWITCHES. DIMMERS, RECEPTACLES, TELEPHONE, DATA AND SIGNAL OUTLETS SHALL BE IN ACCORDANCE WITH THE 'AMERICAN WITH DISABILITIES ACT'. LIGHT SWITCHES, DIMMERS, ETC. (+42")
- RECEPTACLES, TELEPHONE, DATA, ETC. (+18") ALL MOUNTING HEIGHTS ARE MEASURED FROM FINISHED FLOOR TO CENTER OF DEVICE. MOUNTING HEIGHTS SHOWN ON THE ARCHITECT DRAWINGS AND SPECIFICATIONS TAKE PRECEDENCE. VERIFY EXACT MOUNTING HEIGHT REQUIRED WITH ARCHITECT AND INSTALL ACCORDINGLY.

### **ELECTRICAL LEGEND**

ALL SYMBOLS SHOWN ARE NOT NECESSARILY USED IN THIS PROJECT

2' x 4' LIGHT FIXTURE. LETTER INDICATES TYPE

2' x 2' LIGHT FIXTURE. LETTER INDICATES TYPE

2' X 4' LIGHT FIXTURE WITH 90 MINUTE, MIN. 1100 LUMENS **BATTERY PACK** (NOTE: SIMILAR FOR 1' x 4' AND 2' x 2' FIXTURES)

EXIT LIGHT. PROVIDE DIRECTIONAL CHEVRON(S) ARROW(S) AS INDICATED ON PLANS. CONNECT TO UNSWITCHED CIRCUIT.

SINGLE POLE SWITCH

THREE(3) WAY SWITCH

\$ abcd LIGHT CONTROL SWITCH, SUBSCRIPT DENOTES LIGHT AS CONTROLLED

DIMMER CONTROL 3-WAY SWITCH

MANUAL MOTOR STARTER WITH PROPER THERMAL ELEMENT INSTALLED.

DUPLEX RECEPTACLE, 20AMP, 125VOLT, 2POLE, 3WIRE, GROUNDING TYPE, NEMA 5-20R (CM=CEILING MOUNT)

⊕ GFI GROUND FAULT INTERRUPTOR (GFI) DUPLEX RECEPTACLE. SIMILAR TO DUPLEX RECEPTACLE ABOVE. RECEPTACLE SHALL BE FULLY COMPLIANT TO THE LATEST UL 943 STANDARD. RECEPTACLE SHALL BE PROVIDED WITH AUTO-MONITORING (SELF-TEST) FUNCTION AND STATUS INDICATOR LIGHT (LEVITON SMART LOCK PRO OR EQUAL).

DUPLEX RECEPTACLE ABOVE.

DOUBLE (QUAD) DUPLEX RECEPTACLE WITH COMMON COVER PLATE. SIMILAR TO DUPLEX RECEPTACLE

DUPLEX GROUNDING TYPE CONTROLLED RECEPTACLE. 20 AMP, 125VOLT, 2 POLE, 3 WIRE. RECEPTACLE SHALL HAVE PERMANENT IDENTIFICATION

SPECIAL OUTLET MOUNTED FLUSH IN WALL BOX LETTER INDICATES TYPE

A - NEMATYPE

TELEPHONE OUTLET. PROVIDE BACK BOX/COVER PLATE. INSTALL 3/4"C. WITH BUSHING AND PULL STRING, STUBBED TO ACCESSIBLE CELING.

DATA OUTLET. PROVIDE BACK BOX/COVER PLATE. INSTALL 3/4"C. WITH BUSHING AND PULL STRING, STUBBED TO ACCESSIBLE CELING.

COMBINATION TELEPHONE/DATA OUTLET. PROVIDE BACK BOX/COVER PLATE. INSTALL 3/4"C. WITH BUSHING AND PULL STRING, STUBBED TO ABOVE ACCESSIBLE CEILING.

JUNCTION BOX. (CM=CEILING MOUNT)

ELECTRICAL PANEL BOARDS

DISCONNECT SWITCH. ALL SWITCHES SHALL BE HEAVY DUTY TYPE (E.G. 30A/3P/600/NF/NEMA 1 OR NEMA 3R FOR OUTDOORS)

CONDUIT RUN CONCEALED IN WALL OR CEILING

CONDUIT RUN CONCEALED IN FLOOR

HOMERUN TO ELECTRICAL PANELBOARDS

CROSS LINES ON CONDUIT RUNS INDICATE NUMBER OF #12 CURRENT CARRYING CONDUCTORS CONTAINED THEREIN TWO #12 AND MINIMUM OF ONE #12 GROUND WIRE ARE INDICATED WHEN CROSS LINES ARE NOT SHOWN. NUMERALS ADJACENT TO CROSS LINES ON CONDUIT RUNS INDICATE SIZE OF #12. ALL CONDUITS SHALL CONTAIN ONE GROUND WIRE SIZED PER C.E.C. TABLE 250.122. BUT NOT SMALLER THAN #12. WHERE ISOLATED GROUND RECEPTACLES ARE INDICATED, PROVIDE ADDITIONAL #12 GROUND WIRE

IN CONDUIT RUNS, CONNECTED FROM ISOLATED GROUND



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BUS IN PANEL.

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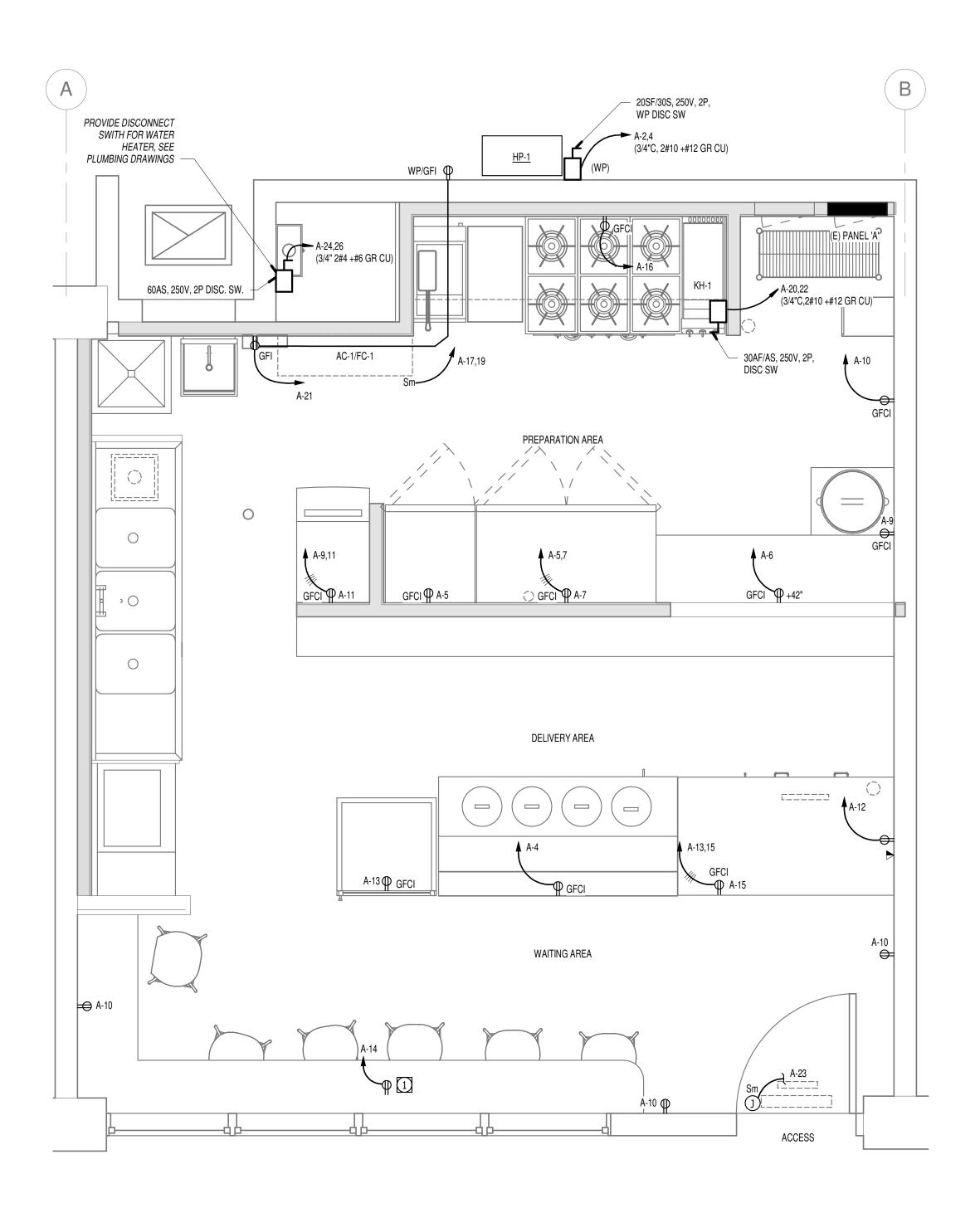
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TITLE: LEGEND AND NOTES

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E0.2

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NORTH

ELECTRICAL POWER PLAN

1/2" = 1'-0"



### **POWER PLAN GENERAL NOTES** (AS APPLICABLE)

- 1. REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR EXACT LOCATIONS OF HVAC AND PLUMBING EQUIPMENT AND RELATED DEVICES, AND COORDINATE WITH MECHANICAL AND PLUMBING CONTRACTORS FOR POWER AND CONTROL CONNECTIONS PRIOR TO ROUGH IN.
- 2. DEVICE AND RECEPTACLE LOCATIONS SHOWN FOR REFERENCE ONLY. VERIFY WITH ARCHITECTURAL DRAWINGS EXACT LOCATIONS AND MOUNTING HEIGHTS OF DEVICES AND ADDITIONAL DETAILS PRIOR TO ROUGH IN.
- 3. NEW DEVICES SHALL BE FLUSH MOUNTED IN EXISTING WALLS, PROVIDE WALL CUTTING, PATCHING, AND PAINTING TO MATCH EXISTING. COORDINATE EXACT LOCATIONS AND WORK WITH ARCHITECTURAL DRAWINGS.

REQUIRED TO MAINTAIN THE RATING OF THE ASSEMBLY.

- 4. PROVIDE UL APPROVED FIRESTOP SYSTEM AT THROUGH PENETRATIONS OF NEW AND EXISTING FIRE RATED WALLS AND FLOORS WITH BOTH 'F' AND 'T' RATINGS
- 5. PROVIDE CONCRETE CORES FOR CONDUIT ROUTING, VERTICAL CONDUIT SUPPORTS, AND UL LISTED FIRE STOPPING TO MAINTAIN FIRE RATING OF EXISTING
- 6. INTERCEPT AND EXTEND EXISTING BRANCH CIRCUITS TO REMAIN TO AVAILABLE SPARE CIRCUITS. MATCH SIZE AND QUANTITY OF CONDUIT AND CONDUCTORS. FIELD VERIFY PRIOR TO COMMENCEMENT OF WORK.
- 7. PROVIDE BACK BOXES AND CONDUITS FOR LOW VOLTAGE ACCESS CONTROL AND SECURITY SYSTEMS. REFER AND COORDINATE TO LOW VOLTAGE CONTRACTOR AND DESIGN DRAWINGS FOR LOCATIONS AND REQUIREMENTS.
- 8. PROVIDE DISCONNECT SWITCH, WEATHERPROOF (AS REQUIRED), FUSIBLE OR NON -FUSIBLE, AND LIQUID TIGHT FLEX CONNECTION TO MECHANICAL EQUIPMENT. SIZED PER MANUFACTURER'S REQUIREMENTS.
- 9. REFER TO UNIT PANEL SCHEDULE FOR CIRCUIT HOMERUN DESIGNATION. ELECTRICAL CONTRACTOR TO FIELD VERIFY EXISTING POWER OUTLET AND OR EQUIPMENT POWER CIRCUIT IF THEY ARE GOING TO BE RE-USED, IF NOT, PROVIDE NEW HOMERUN AS REQUIRED AND AS NECESSARY, TYPICAL TO ALL UNITS.

### **SHEET NOTES:**

PROVIDE SHOW WINDOW RECEPTACLE. RECEPTACLE TO E MOUNTED FLUSH IN CEILING IF CEILING IS WITHIN 18" FROM THE TOP OF THE WINDOW, OR ON THE WALL ABOVE THE WINDOW IF THERE IS MORE THAN 18" TO THE CEILING ABOVE. ROUTE CIRCUIT THROUGH PLUG LOAD CONTROLLER FOR AUTOMATIC CONTROLS. REFER TO LIGHTING FLOOR PLAN FOR MORE INFORMATION.

CIRCUITING NOTE:

CIRCUITS SHOWN ON HOMERUNS SHALL BE EXTENDED TO DEVICES WHERE CIRCUITS ARE IDENTIFIED. ALL CONDUCTORS SHALL BE ROUTED IN CONDUIT. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL CONDUIT, BOXES, CONDUCTORS, SUPPORTS, ETC. REQUIRED FOR A COMPLETE INSTALLATION. REFER TO THE SPECIFICATIONS FOR CONDUIT AND CONDUCTOR REQUIREMENTS.



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DRAWINGS PREPARED BY:

TITLE:

**ELECTRICAL POWER** 

SHEET:

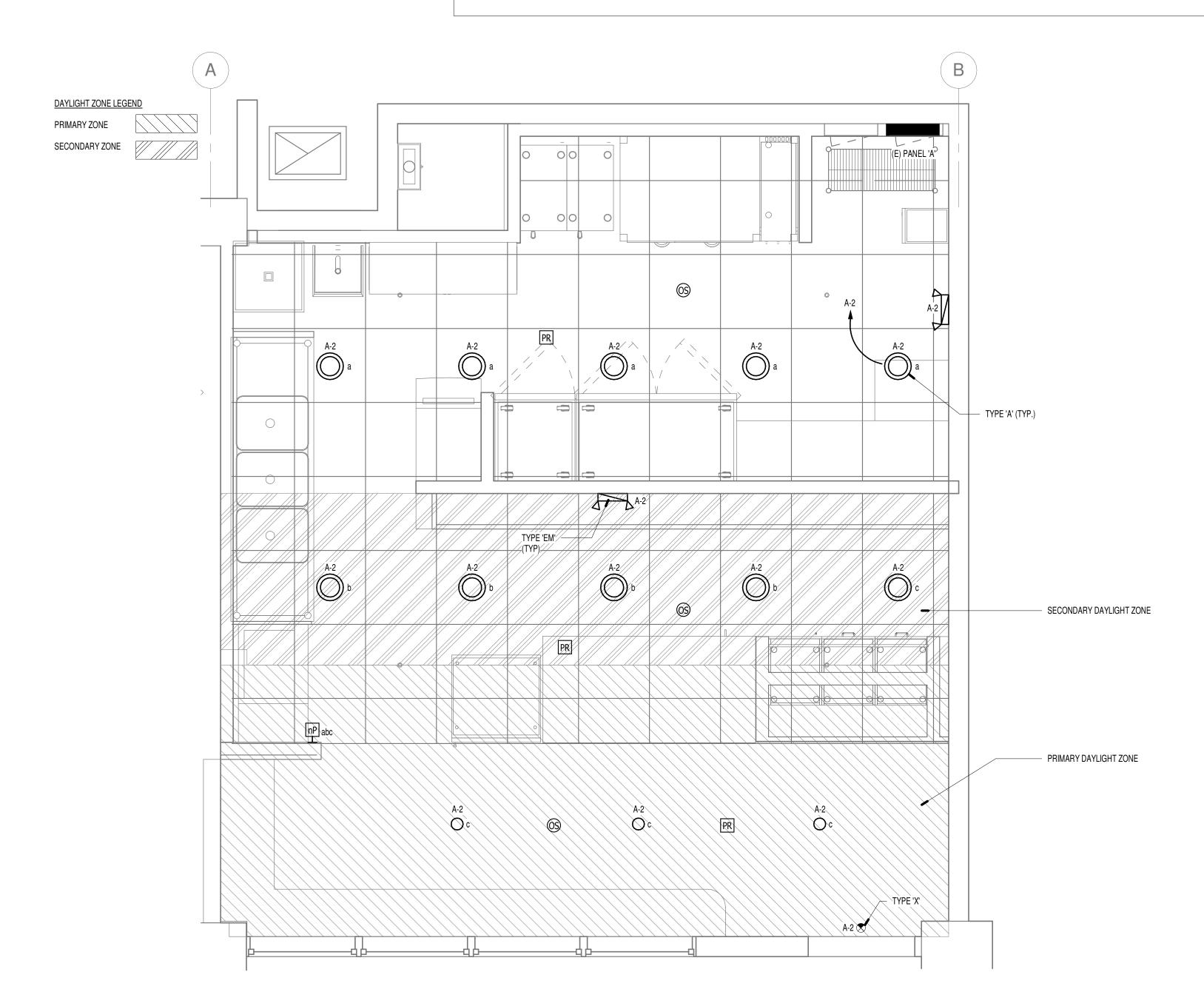
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	LIGHTING FIXTURE SCHEDULE								
TYPE	DESCRIPTION	FINISH	LAMPS	REMARKS	MANUFACTURER				
А	4 INCH OPWN AND WALLWASH LED NEW CONSTRUCTION DOWNLIGHT	TBD*	4/LED 0-10V DIM 35K/80 CRI 17.5W	- 120V	LITHONIA LIGHTING #LDN4 *** #LDN4-35/15-L04WR-LSS-120-EZ10				
В	18" WIDE LED PENDANT LIGHT	TBD*	LED 0-10V DIM 30K/90CRI 11W	- 120V	TECH LIGHTING #700TDZVO-LED930-90CRI-30K-120V				
EM	BUG EYE LED LIGHT FIXTURE WITH 90 MIN. SEALED NI-CAD EMERGENCY BATTERY ILLUMINATION.	TBD*	INTEGRATED LED MODULE 5.4W	- 120V	LITHONIA LIGHTING QUANTUM SERIES BUG EYE #ELMT-W-LP06VS-LTP ***				
Х	WALL MOUNTED LED EXIT SIDN	TBD*	INTEGRATED LED MODULE 1.2W	- 120V	LITHONIA LIGHTING QUANTUM SERIES #LQC 1 G E LN				

### NOTES:

- FIXTURE FINISH TO BE COORDINATED WITH OWNER AND/OR OWNER REPRESENTATIVE.
- OR APPROVED EQUAL FIXTURE CONTACT KENT BONNETT AT PERFORMANCE LIGHITNG (KENTB@PERFORMANCELTG.COM) WITH ANY EXPEDITING, BUDGET, SUBSTITUTION ISSUES YOU MAY HAVE WITH THIS FIXTURE. CONTACT JOE PORTERA AT PERFORMANCE LIGHITNG (JOEP@PERFORMANCELTG.COM) WITH ANY EXPEDITING, BUDGET, SUBSTITUTION ISSUES YOU MAY



### LIGHTING PLAN GENERAL NOTES (AS APPLICABLE)

- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS, FLOOR PLANS, AND ELEVATIONS FOR EXACT LIGHTING FIXTURE AND CONTROL DEVICE LOCATIONS, CEILING TYPES AND MOUNTING HEIGHTS.
- 2. LIGHT FIXTURES SHOWN CIRCUITED DIRECTLY FROM LIGHTING BRANCH PANELBOARDS UNLESS OTHERWISE NOTED.
- 3. EXIT SIGNS AND EGRESS LIGHTING FIXTURES PROVIDED WITH 90 MINUTE EMERGENCY BATTERY PACK AND UNSWITCHED 'HOT' FROM LIGHTING PANELBOARD FOR POWER FAILURE SENSING.
- 4. PROVIDE UL APPROVED FIRESTOP SYSTEM AT THROUGH PENETRATIONS OF NEW AND EXISTING FIRE RATED WALLS TO MAINTAIN FIRE RATING OF ASSEMBLY.
- 5. ELECTRICAL CONTRACTOR TO FIELD VERIFY EXISTING LIGHTING POWER CIRCUIT IF THEY ARE GOING TO BE RE-USED, IF NOT, PROVIDE NEW HOMERUN AS REQUIRED AND AS NECESSARY, TYPICAL TO ALL UNITS.
- 6. DIMMING WALL OCCUPANCY CONTROL SWITCHES LOCATION, EQUAL OR EQUIVALENT TO APPROVED ACUITY CONTROLS (WSX PDT D 347 WH 8H).
- 7. WALL/CEILING MOUNTED OCCUPANCY SENSOR, EQUAL OR EQUIVALENT TO APPROVED ACUITY CONTROLS (CM PDT 10 R LT, DUAL TECHNOLOGY), (AS APPLIED).
- 8. CEILING MOUNTED PHOTOCELL EQUAL OR EQUIVALENT TO APPROVED ACUITY CONTROLS (CM ADC VLP LT), (AS APPLIED).
- 9. REST ROOM EXHAUST FAN INTERLOCKED TO THE REST ROOM LIGHTING CONTROL SENSOR/SWITCH. REFER TO MECHANICAL DRAWINGS.
- 10. REFER TO UNIT PANEL SCHEDULE FOR THE CIRCUIT HOMERUN DESIGNATION. TYPICAL TO ALL UNITS.

### **nLIGHT CONTROLS SYMBOLS:**

- NP SW1 N LIGHT WIRED AESTHETIC WALLPOD, 2 POLE, RAISE/LOWER DIMMING # nPODMA 2P DX XX [COLOR]
- (S) OS1 N LIGHT DUAL TECHNOLOGY, SMALL MOTION, LOW VOLTAGE, STANDARD RANGE 360 LENS, REAR RJ-45 PORTS, OCCUPANCY SENSOR (RECESS MOUNT) # nCM-PDT-9 RJB
- PR DP1 N LIGHT POWER/RELAY PACK, DIMMING, EXTERNAL FAULT PROTECTION # NPP16 EFP
- ---- PLENUM RATED LOW VOLTAGE CAT 5E CABLING PER MANUFACTURER SPECIFICATIONS.

**GENERAL NOTES:** 

COORDINATE REQUIREMENT AND PROGRAM OF CEILING AND WALL SENSORS, DIMMING, AND POWER/RELAY WITH SENSOR SWITCH MANUFACTURER PRIOR TO ORDERING AND ROUGH-IN. INCLUDE PLENUM RATED LOW VOLTAGE 0-10VAC CABLING PER MANUFACTURER SPECIFICATIONS.



DRAWN BY:	-	
PROJECT#	-	
NUMBER	DESCRIPTION	DATE
I 1	1	I

# 800 B AV

DRAWINGS PREPARED BY:

SABOR



MECHANICAL ELECTRICAL PLUMBING ENERGY CONSULTANTS 888.401.7483 Email: Info@Riv-Eng.com www.Riv-Eng.com 11801 Pierce St., Suite 200

Riverside, California 92505 (By Appointment Only)

TITLE:

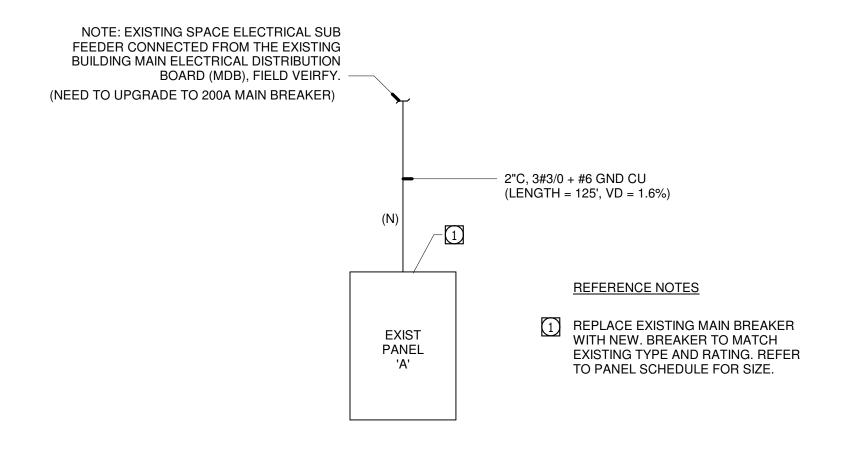
ELECTRICAL LIGHTING

SHEET:

E2.2

ELECTRICAL LIGHTING PLAN 1/2" = 1'-0"





PARTIAL ELECTRICAL SINGLE LINE DIAGRAM	N.T.S	1	

	MOUNTING FLUSH NEMA 3R NO FEED THRU NO		OUBLE LUG 200% I/G BUS	NO NO		120/208V 1	UPGR	ADE TO	200A)	MAIN 200 BUS 200 A.I.C. 10,000			
N L C O O I T A R E D C S S		TRIP	POLES	A	В	А	В	POLES	TRIP	LOCATION		C L R A C D	L NO CA TO E
O M 1		20A	2	1800		208		1	20A	LIGHTING -		2 L	
Ом 1 Ом 3	-	1000			1800		1800	1	20A	HOT FOOD STATION - ITEM #1		4 K	K C
	FREEZER - ITEM #3	20A	1	315		1152		1	20A	REFRIGERATED PREP TABLE - ITE	M #2	6 K	k (
Ο K 7	REFRIGERATOR - ITEM #4	20A	1		730		600	1	20A	AIR CURTAIN - ITEM #20			N (
<b>○</b> κ 9	RICE COOKER - ITEM #5	20A	1	600		720		1	20A	CONVENIENCE RECEPTACLE		10 F	
O K 1	ICE MACHINE - ITEM #7	20A	1		1440		500	1	20A	POS RECEPT			R C
O K 1:	MERCHANDISER - ITEM #8	20A	1	840	0.000000000	180	0.0000	1	20A	SHOW WINDOW RECEPTACLE		14 F	_
	HEATED DISPLAY - ITEM #9	20A	1	100.00000	1632		180	1	20A	STOVE - ITEM #6		16 F	3 (
	7 FC-1/AC-1	20A	2	600	(925)		1002220	1	20A	SPARE KH-1/KECP, VERIFY		18	-
O C 19	Salar de suto de option de la composició		-	100	600	4500	1500	2	30A	KH-1/KECP, VERIFY		20 N	-
$\frac{ \mathbf{R} ^2}{ \mathbf{R} ^2}$	SERVICE GFI RECEPT	20A	1 1	180	500	1500	5500		-	WATER HEATER			и ( c (
N 23	AIR CURTAIN	20A	1		500	5500	5500	2	60A	-		26 0	_
2						5500						28	1
29												30	1>
3		1								1		32	1
3:												34	1
3!	<del></del>											36	7
3	1											38	1
39												40	1
A 4	1		3									42	10
				Q	ĎΑ	0	βB						
		TOTAL DEN	MAND LOAD:		605	16	796						
	ā	TOTAL DEM	IAND AMPS:	1	22	1.	40		87%	PERCENT BALANCE			
	LOAD CLASSIFICATION		CONNECTE	DLOAD	DEMAN	ND FACTOR	ES	TIMATED DE	EMAND	PANEL LOAD	S		
	CONTINUOUS LOAD :		12200	THE STORE VALUE AND THE STORE OF THE STORE O		125%	-	15250			<i>7.0</i> 0		_
	KITCHEN EQUIPMENT LOAD	THE DECEMBER	8509			65%	010	5531		TOTAL CONN. LOAD (VA):	3037	77	
	LIGHTING LOAD :	= L	208		1	125%		260		TOTAL EST. DEMAND (VA):	3140	)1	
	MOTOR LOAD :	= M	6600		1	100%		7500		TOTAL CONN. (AMPS):	146	3	
	NON-CONTINUOUS LOAD :		1100		1	100%		1100		OTAL EST. DEMAND (AMPS	151	li .	
	PANEL LOAD :	= P	0			100%		0					
	RECEPTACLE LOAD :	= R	1760			100%		1760					
①P ②P ③C	NOTES: (AS APPLICABLE) ROVIDE LOCK-ON DEVICE. ROVIDE LOCK-OFF DEVICE. IRCUIT BREAKER CONTROLLED BY NSUL SYSTEM. REFER TO HOOD	<b>4 5 6</b>	PROVIDE A	A RED CIR A NEW BR	CUIT BREA	AKER.	FOR H	VAC EQUIPM	MENT. ELL AND	CUIT BREAKER ① EXISTING BRE ① CIRCUIT MADE TIME CLOCK THROUGH DEI	AVAILAE		

LIGHTING CONTROL. REFER TO EXTERIOR

LIGHTING CONTROL DIAGRAM.

RATING IN PANEL

FIRE SYSTEM INTERLOCK DIAGRAM.

### SINGLE LINE DIAGRAM GENERAL **NOTES (AS APPLICABLE)**

- 1. FIELD VERIFY MINIMUM AIC RATINGS OF EXISTING ELECTRICAL EQUIPMENTS.
- 2. ADJUST CIRCUITING ON PANELBOARDS AS REQUIRED TO MAINTAIN MAXIMUM 10% LOAD IMBALANCE.
- 3. PROVIDE A COMPLETE TYPED DIRECTORY IN EACH PANELBOARD TO INCLUDE EXISTING LOADS TO REMAIN AS WELL AS NEW LOADS. DIRECTORY SHALL INDICATE EQUIPMENT NAME AND/OR ROOM NUMBER OF EQUIPMENT OR DEVICES FOR BOTH NEW AND EXISTING LOADS PER NEC 408.4.
- 4. PANELBOARDS IDENTIFICATION LABEL SHALL INCLUDE THE NAME WHERE POWER SUPPLY ORIGINATES PER NEC 408.4.
- 5. CIRCUIT BREAKERS SERVING FIRE ALARM SYSTEM PANELS AND POWER SUPPLIES SHALL BE IDENTIFIED AS FIRE ALARM, PROVIDED WITH LOCK ON DEVICE, AND HAVE A RED COLORED HANDLE OR PAINTED RED.
- 6. FIELD VERIFY AVAILABLE FAULT CURRENT AT SERVICE ENTRANCE WITH UTILITY COMPANY PRIOR TO PROCUREMENT OF ELECTRICAL DISTRIBUTION EQUIPMENT AND VERIFY MINIMUM FAULT INTERRUPTING RATINGS OF MAIN SWICTHBOARD AND BRANCH PANELBOARD.
- 7. ALL OVERCURRENT DEVICES IN AN INDIVIDUAL PIECE OF EQUIPMENT SHALL HAVE AN AIC RATING EQUAL TO THE OVERALL RATING OF THE EQUIPMENT.
- 8. ALL TERMINATIONS AND ENCLOSURES SHALL BE RATED FOR USE WITH 75 DEGREE CELSIUS CONDUCTORS.
- 9. ALL SERVICE ENTRANCE EQUIPMENT, SWITCHBOARDS, DISTRIBUTION BORADS, AND PANELBOARDS RATED AT 400AMPS OR GREATER, SHALL BE PROVIDED WITH A MAIN OVERCURRENT DEVICE AND BUSSING RATED AT 100% CONTINUOUS OPERATION.
- 10. ALL BRANCH OR FEEDER CIRCUIT OVER CURRENT DEVICES RATED AT 400AMPS OR HIGHER SHALL BE RATED FOR 100%

### PANEL WIRE/FEEDER DISTRIBUTION SCHEDULE

		1PHASE, 2WI	RE - COPPER	
FEEDER	AMPS	CONDUIT	CONDUCTOR	GROUND
F202	20	3/4"C	2#12	#12
F302	30	3/4"C	2#10	#10
F402	40	3/4"C	2#8	#10
F502	50	1"C	2#6	#10
F602	60	1"C	2#4	#10
F702	70	1"C	2#4	#8
F802	80	1-1/4"C	2#2	#8
F902	90	1-1/4"C	2#2	#8
F1002	100	1-1/4"C	2#1	#8

	VOL	TAGE	DROP \	WIRE T	ABLE	
	110VOLT,	SINGLE PHA	ASE, MAXIMU	JM 3% VOLT	AGE DROP	
LENGTH OF RUN	10'-25'	26'-50'	51'-100'	101'-150'	151'-200'	AMPS
CU WIRE	#12	#12	#8	#6	#6	15
CU WIRE	#12	#10	#8	#6	#4	20
CU WIRE	#10	#8	#6	#4	#3	30
CU WIRE	#8	#8	#4	#3	#2	40
CU WIRE	#8	#6	#4	#2	#1	50
CU WIRE	#6	#6	#3	#1	#0	60
CU WIRE	#4	#4	#2	#1	#00	70
CU WIRE	#3	#3	#1	#00	#000	100
	208VOLT,	SINGLE PHA	ASE, MAXIMU	JM 3% VOLT	AGE DROP	
LENGTH OF RUN	10'-25'	26'-50'	51'-100'	101'-150'	151'-200'	AMPS
CU WIRE	#12	#12	#10	#10	#8	15
CU WIRE	#12	#12	#10	#8	#6	20
CU WIRE	#10	#10	#8	#6	#4	30
CU WIRE	#8	#8	#6	#6	#4	40
CU WIRE	#8	#8	#6	#4	#3	50
CU WIRE	#6	#6	#4	#4	#3	60
CU WIRE	#4	#4	#4	#3	#2	70
CU WIRE	#3	#3	#3	#2	#0	100



DRAWN BY: PROJECT# NUMBER DESCRIPTION DATE

800 B AV NATIONAL

DRAWINGS PREPARED BY:

SABOR



MECHANICAL ELECTRICAL PLUMBING ENERGY CONSULTANTS 888.401.7483 Email: Info@Riv-Eng.com www.Riv-Eng.com

11801 Pierce St., Suite 200

CONSULTANT STAMP: Riverside, California 92505 (By Appointment Only)

TITLE: ELECTRICAL SINGLE LINE DIAGRAM AND LOAD CALCULATIONS

SHEET:

E4.1

In no event shall any party, client or otherwise copy or use any of the [concepts, plans, drawings, specifi cations, designs, models, reports, photographs, computer software, surveys, calculations, construction and other data, documents of Service")] for any purpose other than the Project (the "Instruments of Service")] for any purpose other than those noted above or in relation to any project other than the Project (the "Instruments of Service")] for any purpose other than those noted above or in relation to any project other than those noted above or in relation



STATE OF CALIFORNIA												
Indoor Lighti	ing											400
NRCC-LTI-E (Created 04	4/21)										CALIFORNIA ENE	ERGY COMMISSION
CERTIFICATE OF C	OMPLIANCE											NRCC-LTI-
This document is u	used to demons	trate compliance	with requireme	nts in §110.9, §	\$11	0.12(c), §130.0,	513	30.1, §140.6, an	d §141.0(b)2 for	in	door lighting scop	es using the
prescriptive path.												
Project Name:	Sabor Piri Piri					Re	epo	rt Page:				Page 1 of
Project Address:	800 B Ave., Suit	e 804				D	ate	Prepared:				October 12, 202
A. GENERAL INF	ORMATION											
01 Project Locat	tion (city)		Natio	nal City		04 Total	Cor	nditioned Floor	Area (ft <sup>2</sup> )		4	35
02 Climate Zone	2			7		05 Total	Un	conditioned Flo	or Area (ft <sup>2</sup> )		3	0
03 Occupancy T	vpes Within Pro					ies (Habitable A				0		
Office		Retail		Warehouse				1otel	School		Sunn	ort Areas
Parking Gar		High-Rise Res	No. 100	Relocatable		☐ Heal		-	Other (write	in).		010111000
Falking Gai	Lage	riigii-kise kes	identiai	Relocatable		Пеа	LIIC	are	_ Other (write	1111).		
B. PROJECT SCO	PE											(c)
able Instructions	: Include any lia	hting systems th	at are within the	scope of the p	ern	nit application a	nd	are demonstrat	ing compliance	usir	ng the prescriptive	e path outlined in
	MAN (MAN)										y input. If you ne	1000000
alculation metho	[15] [15] [15] [15] [15] [15] [15] [15]											
	Scop	e of Work	77 - 77 - 77 - 77 - 78 - 78 - 78 - 78 -			Conditioned	d Sp	aces	1		Unconditioned	Spaces
		01		1	02			03			04	05
My Project Consists of (check all that apply):					Calculation Method			Area (ft²) Ca		alculation Method		Area (ft²)
IVIV F												
		or terrees an tria	с арр.үү.					435				
✓ New Lighting		or terreex an tria	. орр., у			ea Category		435				
✓ New Lighting	System	or teneer an the						435				
	System	or terrect all the	с оррију.					435				
✓ New Lighting	System					ea Category		435				
✓ New Lighting	System		tal Area of Work					435				
✓ New Lighting  ☐ Altered Light	System ing System					ea Category		435				
New Lighting Altered Light C. COMPLIANCE	System ing System ERESULTS	Tol	tal Area of Work	(ft²)	Ar	ea Category 435						
New Lighting Altered Light C. COMPLIANCE	System ing System ERESULTS	Tol	tal Area of Work	(ft²)	ES u	ea Category 435		nditions" refer t	to Table D. for g			
New Lighting  Altered Light  C. COMPLIANCE  Table Instructions	System  ing System  E RESULTS  i: If any cell on t	To his table says "D Allowed Light	tal Area of Work  OES NOT COMPL  ing Power per §	. (ft²) .Y" or "COMPLI 140.6(b) (Watt	ES u	ea Category  435 with Exceptiona		nditions" refer t	to Table D. for g		10.6(a) (Watts)	Compliance Results
New Lighting Altered Light C. COMPLIANCE Table Instructions Lighting in	System ing System ERESULTS	Tol	tal Area of Work	(ft²)	ES u	ea Category 435		nditions" refer t	to Table D. for g			
New Lighting  Altered Light  C. COMPLIANCE  Table Instructions  Lighting in conditioned and	System  ing System  E RESULTS  i: If any cell on t	To his table says "D Allowed Light	OES NOT COMPL ing Power per §	. (ft²) .Y" or "COMPLI 140.6(b) (Watt	ES u	ea Category  435 with Exceptiona		nditions" refer t	to Table D. for g		10.6(a) (Watts)	Compliance Result
New Lighting Altered Light  C. COMPLIANCE Table Instructions Lighting in conditioned and unconditioned	System  ing System  E RESULTS  i: If any cell on t	his table says "D Allowed Light 02	OES NOT COMPLETING Power per §	. (ft²) .Y" or "COMPLI 140.6(b) (Watt	ES u	ea Category  435 with Exceptiona		nditions" refer t	to Table D. for g		10.6(a) (Watts)	Compliance Result
New Lighting Altered Light  C. COMPLIANCE Table Instructions Lighting in conditioned and unconditioned spaces must not	System  ing System  E RESULTS  :: If any cell on t	his table says "D Allowed Light 02 Area Category	OES NOT COMPLETING Power per § 03 Area Category Additional	(ft²)  Y" or "COMPLI  140.6(b) (Watt	ES u	ea Category  435 with Exceptiona	I Co	nditions" refer t Adjusted Ligh 06	to Table D. for g ting Power per 07 Adjustments		0.6(a) (Watts) 08	Compliance Result
Altered Light  Altered Light  C. COMPLIANCE  Table Instructions  Lighting in conditioned and unconditioned spaces must not be combined for	System  ing System  E RESULTS :: If any cell on to the complete	his table says "D Allowed Light 02	OES NOT COMPLing Power per § 03 Area Category Additional §140.6(c)2G	Y" or "COMPLI 140.6(b) (Watt 04	ES u	ea Category  435  with Exceptiona  05	I Co	nditions" refer t Adjusted Ligh 06 Total	to Table D. for g ting Power per 07 Adjustments PAF Control		0.6(a) (Watts) 08 Total Adjusted	Compliance Result
Altered Light  Altered Light  C. COMPLIANCE  Table Instructions  Lighting in conditioned and unconditioned spaces must not	System  ing System  E RESULTS  i: If any cell on t  O1  Complete Building	his table says "D Allowed Light 02 Area Category	OES NOT COMPLETING Power per § 03 Area Category Additional	./" or "COMPLI 140.6(b) (Watt 04 Tailored §140.6(c)3	ES u	435 with Exceptiona 05 Total Allowed	I Co	nditions" refer to Adjusted Light 06  Total Designed	to Table D. for g ting Power per 07 Adjustments PAF Control Credits		0.6(a) (Watts) 08  Total Adjusted (Watts)	Compliance Result: 09 05 Must be ≥ 08
Altered Light  Altered Light  C. COMPLIANCE  Table Instructions  Lighting in conditioned and unconditioned spaces must not be combined for compliance per	System  ing System  E RESULTS  i: If any cell on t  O1  Complete Building	his table says "D Allowed Light 02 Area Category	OES NOT COMPLing Power per § 03 Area Category Additional §140.6(c)2G	./" or "COMPLI 140.6(b) (Watt 04 Tailored §140.6(c)3	ES u	435 with Exceptiona 05 Total Allowed	I Co	nditions" refer to Adjusted Light 06  Total Designed	to Table D. for g ting Power per 07 Adjustments PAF Control Credits §140.6(a)2		Total Adjusted (Watts) *Includes	Compliance Result: 09 05 Must be ≥ 08
Altered Light  C. COMPLIANCE Table Instructions  Lighting in conditioned and unconditioned spaces must not be combined for compliance per	System  ing System  E RESULTS  :: If any cell on to the suilding \$140.6(c)1	his table says "D Allowed Light 02 Area Category §140.6(c)2	OES NOT COMPL ing Power per § 03 Area Category Additional §140.6(c)2G (+)	7" or "COMPLI 140.6(b) (Watt 04 Tailored §140.6(c)3 (+)	ES u	435 with Exceptiona 05 Total Allowed	I Co	nditions" refer to Adjusted Light 06  Total Designed (Watts)	to Table D. for g ting Power per 07 Adjustments PAF Control Credits §140.6(a)2 (-)		Total Adjusted (Watts) *Includes	Compliance Results 09 05 Must be ≥ 08
Altered Light  C. COMPLIANCE Table Instructions  Lighting in conditioned and unconditioned spaces must not be combined for compliance per §140.6(b)1.	System  ing System  E RESULTS  :: If any cell on to the suilding \$140.6(c)1	his table says "D Allowed Light 02 Area Category §140.6(c)2 (See Table I)	OES NOT COMPL ing Power per § 03 Area Category Additional §140.6(c)2G (+)	7" or "COMPLI 140.6(b) (Watt 04 Tailored §140.6(c)3 (+)	ES u	with Exceptiona  05  Total Allowed (Watts)	II Co ≥	nditions" refer to Adjusted Light 06  Total Designed (Watts)  (See Table F)	to Table D. for g ting Power per 07 Adjustments PAF Control Credits §140.6(a)2 (-)	§14	0.6(a) (Watts) 08  Total Adjusted (Watts) *Includes Adjustments	Compliance Result: 09  05 Must be ≥ 08 §140.6

D. EXCEPTIONAL CONDITIONS This table is auto-filled with uneditable comments because of selections made or data entered in No exceptional conditions apply to this project.		ee Table H for Dee Table Q for D		COMPLII Not Applic	Pa October E <b>S</b>	ge 2 of 12, 202
Project Address: 800 B Ave., Suite 804  Contro  Rated Power Reduction  D. EXCEPTIONAL CONDITIONS  This table is auto-filled with uneditable comments because of selections made or data entered in No exceptional conditions apply to this project.	Date Prepared ols Compliance (S on Compliance (S	ee Table H for Dee Table Q for D		COMPLI	October E <b>S</b>	-
Contro  Rated Power Reduction  D. EXCEPTIONAL CONDITIONS  This table is auto-filled with uneditable comments because of selections made or data entered in No exceptional conditions apply to this project.	ols Compliance (S	ee Table H for Dee Table Q for D				
Rated Power Reduction  D. EXCEPTIONAL CONDITIONS  This table is auto-filled with uneditable comments because of selections made or data entered in No exceptional conditions apply to this project.	on Compliance (S	ee Table Q for D				
D. EXCEPTIONAL CONDITIONS  This table is auto-filled with uneditable comments because of selections made or data entered in the exceptional conditions apply to this project.			etails)	Not Applic		
This table is auto-filled with uneditable comments because of selections made or data entered in No exceptional conditions apply to this project.	n tables through				able	
No exceptional conditions apply to this project.	n tables through					6
		out the form.				40
E. ADDITIONAL REMARKS						-
This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.						
F. INDOOR LIGHTING FIXTURE SCHEDULE						6
Table Instructions: Include all permanent designed lighting and all portable lighting in offices.						
Designed Wattage: Conditioned Spaces			,	91		
01 02 03 04 05	06	07	08	09	1	0
Name or Modular Small Aperture Watts per	How Wattage is	Total number	Exempt per		Field In	specto
Item Tag   Complete Luminaire Description   (Track) Fixture   & Color Change   luminaire	determined	luminaires	§140.6(a)3	Design Watts	Pass	Fail
A LED RECESSED DOWNLIGHT 17.5	Mfr. Spec <sup>2</sup>	10	П	175	П	
B LED PENDANT   11	Mfr. Spec <sup>2</sup>	3		33		
	•	Watts CONDIT	IONED SPACES:	208		hann
				1		
Isoaruars B. J. W. W. S W	5440.5/_140:					·*
FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per	§140.6(a)4B is ac	ljusted to be 75%	of their rated	wattage. Table l	- automa	tically
makes this adjustment, the permit applicant should enter full rated wattage in column 05.						
<sup>2</sup> Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for co	mpliance per §13	30.0(c) Wattage	used must be th	he maximum rate	ed for the	
luminaire, not the lamp.						
G. MODULAR LIGHTING SYSTEMS						6
This Section Does Not Apply						

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards

NRCC-LTI-E (Created 04/21)						CALIF	ORNIA ENERG	Y COMMIS	SION CO	
CERTIFICATE OF COM	PLIANCE								NRCC-LTI-	
	or Piri Piri			Report Page:					Page 3 of	
roject Address: 800	B Ave., Suite 804			Date Prepared:				Octob	er 12, 202	
	ease include lighting controls for condition the lighting controls section of the Compl								is table	
Building Level Contro	ls	200					944			
	01				02			(	)3	
	Mandatory Demand Response			Shut-0	Off Controls			Field Ir	spector	
	§110.12(c)			Pass	Fail					
	200000000000000000000000000000000000000									
Area Level Controls							*			
04	05	06	07	08	09	10	11		12	
Area Description	Complete Building or Area Category Primary Function Area	Area Controls §130.1(a)	Multi-Level Controls	Shut-Off Controls	Primary/Skylit Daylighting	Secondary Daylighting	Interlock System:	Field	Inspector	
	, , , , , , , , , , , , , , , , , , , ,	2.00.010102	§130.1(b)	§130.1(c)	§130.1(d)	§140.6(d)	§140.6(a	1 Pass	Fail	
Prep Area	Kitchen, Food Preparation	Manual ON/ OFF	Dimmer	Occ. Sensor	Included	Included				
Sales	Retail Merchandise Sales, Wholesale Showroom	Manual ON/ OFF	Dimmer	Occ. Sensor	Included	Included				
NOTES: Controls wit	h a * require a note in the space below	explaining how con	npliance is achiev	red.			13			
	nary/Skylight Daylighting: Exempt becau				PI	an Sheet Shov	ving Daylit 2	ones:		
EXCEPTION 1 to §130.	1(d)2					E	2.2			
					de la companya della companya della companya de la companya della					
	R ALLOWANCE: COMPLETE BUILDING								7	
	mplete the table for each area complyin <u>6(c)</u> or adjustments per <u>§140.6(a)</u> are be		te Building or Ar	ea Category Meth	ods per §140.6(b	). Indicate if a	dditional lig	hting po	wer	
Conditioned Spaces	W-									
01		02		03	04	05		06		
Area Descrip	ition I	uilding or Area Cat ary Function Area	regory	Allowed Density	Area (ft²)	Allowed Wattage		nal Allow djustmer	l Allowances / ustment	
	71111	a., . directori rired		(W/ft <sup>2</sup> )	(10.7)	(Watts)	Area Categ	ory	PAF	
		F 15 .:		0.95	325	308.75				
Prep area	a Kitche	n, Food Preparatio	11	0.55	323	300.73				
Prep are: Sales		n, Food Preparatio se Sales, Wholesale		1	110	110				

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards

NRCC-LTI-E (Created 04/21)		CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE		NRCC-
Project Name: Sabor Piri Piri	Report Page:	Page 4
Project Address: 800 B Ave., Suite 804	Date Prepared:	October 12,
J. ADDITIONAL LIGHTING ALLOWANCE: AREA CATEGORY METHOD QUALIF	YING LIGHTING SYSTEM	
This Section Does Not Apply		
K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE This Section Does Not Apply		
1000000 100 (10000000 1000000 100000 1000000 10000000		
L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY This Section Does Not Apply		
	Ewater -	
M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGH	TING	
This Section Does Not Apply		
N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED ORNAMENTAL/SPECIA	. EFFECTS	
This Section Does Not Apply		
O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERC	HANDISE	
This Section Does Not Apply		
P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTME	NT FACTOR (PAF))	
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MECHANICAL ELECTRICAL PLUMBING ENERGY CONSULTANTS 888.401.7483 Email: Info@Riv-Eng.com www.Riv-Eng.com 11801 Pierce St., Suite 200 Riverside, California 92505 (By Appointment Only)

CONSULTANT STAMP:

April 2021

DRAWN BY: PROJECT# -NUMBER DESCRIPTION DATE

## **IMPROVEMEN** 800 B AV NATIONAL OR

DRAWINGS PREPARED BY:

TITLE: COMPLIANCE CERTIFICATION

SHEET:

In no event shall any party, client or otherwise copy or use any of the [concepts, plans, drawings, specifi cations, designs, models, reports, photographs, computer software, surveys, calculations, construction and other data, documents of Service")] for any purpose other than those noted above or in relation to any project other than those noted above or in relation to any project other than the Project (the "Instruments of Service")] for any purpose other than those noted above or in relation to any project other than those noted above or in relation to any project other than the Project (the "Instruments of Service")] for any purpose other than those noted above or in relation to any project other than the Project (the "Instruments of Service")] for any purpose other than those noted above or in relation to any project other than those noted above or

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards

### **HVAC GENERAL NOTES**

- CONTRACTOR SHALL CAREFULLY REVIEW THESE PLANS AND SPECIFICATIONS PRIOR TO BID. CONTRACTOR SHALL ALSO REVIEW PLANS AND SPECIFICATIONS OF OTHER RELATED TRADES (INCLUDING ARCHITECTURAL, CIVIL, STRUCTURAL AND ELECTRICAL) PRIOR TO BID TO ENSURE AN ACCURATE UNDERSTANDING OF EXACT SCOPE OF WORK. ANY ITEMS REQUIRING CLARIFICATION SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IN SUFFICIENT TIME TO BE INCORPORATED INTO THE BID.
- CONTRACTOR SHALL VERIFY ALL EQUIPMENT MODEL NUMBERS, CAPACITIES, SIZES, VOLTAGES, AND ALL OTHER SCHEDULED INFORMATION WITH ALL OTHER APPLICABLE TRADES AND WITH THE MANUFACTURER PRIOR TO INSTALLATION.
- . CONTRACTOR SHALL VERIFY ALL LOCATIONS, SIZES, P.O.C.'s, AND AVAILABILITY OF ALL EXISTING ITEMS (I.E.: OUTSIDE AIR, EXHAUST ETC.) PRIOR TO INSTALLATION OF ANY MATERIAL OR EQUIPMENT.
- 4. THESE DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC AND ARE NOT INTENDED TO INDICATE ALL NECESSARY OFFSETS OF DUCTWORK AND PIPING. THE CONTRACTOR SHALL INSTALL MATERIAL AND EQUIPMENT IN A MANNER AS TO CONFORM TO STRUCTURE, AVOID OBSTRUCTIONS, PRESERVE HEADROOM, AND KEEP OPENINGS AND PASSAGEWAYS CLEAR. ALL INSTALLATIONS SHALL BE CONSISTENT WITH NORMALLY ACCEPTABLE INDUSTRY STANDARDS. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING OF ANY DISCREPANCIES OR CONFLICTS THAT WOULD AFFECT THE SYSTEM PERFORMANCE OR WHICH WOULD INCUR ADDITIONAL COSTS. THIS NOTIFICATION SHALL BE MADE PRIOR TO THE INSTALLATION OF THE ITEMS CONCERNED.
- NEW AND/OR EXISTING EQUIPMENT INDICATED ON THIS DRAWING IS SHOWN IN APPROXIMATE POSITION(S). CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS INCLUDING EQUIPMENT LOCATIONS, P.O.C.'s AND STRUCTURAL MEMBERS PRIOR TO INSTALLATION. IN ALL CASES, ADEQUATE ACCESS (PER MANUFACTURER'S RECOMMENDATIONS AND CODE COMPLIANCE) FOR MAINTENANCE AND REPLACEMENT OF EQUIPMENT SHALL BE PROVIDED.
- 6. ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE CODES. NOTHING SHOWN IN THE PLANS OR STATED IN THE SPECIFICATIONS IS INTENDED TO INDICATE THAT THE INSTALLATION OF CONNECTIONS OF ANY ITEM OR DEVICE SHOULD BE DONE CONTRARY TO THE MANUFACTURER'S INSTRUCTIONS AND ALL APPLICABLE CODES AND REGULATIONS. THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT THE INSTALLATION AND CONNECTIONS OF ALL ITEMS AND DEVICES CONFORM TO MANUFACTURER'S INSTRUCTIONS AND TO ALL APPLICABLE CODES AND REGULATIONS.
- 7. ALL HVAC EQUIPMENT, MATERIAL, AND ALL CONNECTION THERETO SHALL BE INSTALLED COMPLETE PER MANUFACTURER'S INSTRUCTIONS TO PROVIDE A COMPLETE AND FULLY OPERATIONAL SYSTEM.
- 8. DUCT SIZES INDICATED ON DRAWINGS ARE INSIDE NET CLEARANCE DIMENSIONS.
- 9. CONTRACTOR MAY, AT HIS OPTION, WITH PRIOR APPROVAL FROM ENGINEER REVISE DUCTWORK SIZING AND ROUTING TO ALLOW FOR INSTALLATION IN THE AVAILABLE SPACE. DUCTWORK THAT IS RESIZED MUST MAINTAIN THE SAME CROSS-SECTIONAL AREA.
- 10. ALL NEW SUPPLY, RETURN, AND EXHAUST (AIR DISTRIBUTION) GRILLES, REGISTERS. AND DIFFUSERS SHALL MATCH (IF APPLICABLE) EXISTING. AND BE APPROVED BY ARCHITECT. THE MAXIMUM NOISE NC LEVEL SHALL BE 25.
- 11. ALL SUPPLY, RETURN, AND EXHAUST REGISTER CONNECTIONS TO DUCTWORK SHALL BE PROVIDED WITH ACCESSIBLE MANUAL VOLUME DAMPERS. ALTERNATIVELY, ACCESSIBLE MANUAL VOLUME DAMPERS MAY BE PROVIDED IN DUCT WORK FEEDER LINES SERVING INDIVIDUAL REGISTERS. PROVIDE ACCESS DOOR AND PANEL AS REQUIRED.
- 12. SUBSTITUTION OF HVAC EQUIPMENT WITH EFFICIENCIES LOWER THAT THOSE INDICATED ON THE PLANS IS NOT PERMITTED.
- 13. IF THE CONTRACTOR'S USE OF SUBSTITUTE MATERIALS, EQUIPMENT, OR METHODS OF INSTALLATION REQUIRES ANY CHANGES IN OTHER TRADES' WORK FROM THAT SHOWN ON THE DRAWINGS, THE EXTRA COST OF THE OTHER TRADES WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR INITIATING THE
- 14. SUBMITTALS: APPROVAL OF SUBMITTALS DOES NOT RELEASE THE CONTRACTOR FROM OBLIGATIONS TO COMPLY WITH ALL REQUIREMENTS OF THE CONSTRUCTION DOCUMENTS OR APPLICABLE CODE REGULATIONS.
- 15. WHERE NONMETALLIC PIPING PENETRATES AREA SEPARATION WALLS, THE PIPE SECTION PASSING THROUGH THE WALLS AND THE FIXTURE CONNECTIONS THERETO SHALL BE OF METAL ONLY.
- 16. NO RANGE HOODS, DRYER VENTS, COMBUSTION VENTS, OR HEATING DUCTS ARE PERMITTED IN AREA SEPARATION WALLS.
- A. CONTRACTOR TO VERIFY LOCATION OF FIRE AND FIRE/SMOKE BARRIER WALLS WITH ARCHITECT PRIOR TO FIRE AND/OR SMOKE DAMPER, DETECTOR AND ACTUATOR INSTALLATION.
- B. ALL CEILING FIRE DAMPERS TO BE ONE (1) HOUR U.L. AND C.S.F.M.
- C. ALL ONE HOUR WALL SHALL BE APPROVED WITH ONE HOUR FIRE DAMPERS BOTH U.L. AND C.S.F.M. APPROVED.
- D. ALL TWO HOUR WALLS SHALL BE APPROVED WITH TWO HOUR FIRE DAMPERS BOTH U.L. AND C.S.F.M. APPROVED.
- E. ALL SMOKE BARRIER WALLS SHALL BE PROVIDED WITH U.L. AND C.S.F.M. APPROVED SMOKE/FIRE DAMPERS (EQUAL TO WALL RATING), MOTOR, ACTUATOR, AND SMOKE DETECTOR.
- F. ALL PENETRATIONS OF ONE (1) HOUR CORRIDOR WALLS AND CEILINGS THAT WOULD REQUIRE THE INSTALLATION OF A FIRE DAMPER SHALL BE APPROVED WITH A U.L. AND C.S.F.M. APPROVED COMBINATION SMOKE/FIRE DAMPER, (EQUAL TO WALL RATING), MOTOR, ACTUATOR, AND SMOKE DETECTOR.
- G. PROVIDE ALL FIRE & SMOKE DAMPERS WITH ACCESS DOORS AS NECESSARY.
- 17. PROVIDE BALANCING DAMPERS ON ALL OUTSIDE AIR, EXHAUST AIR, SUPPLY AIR AND RETURN AIR SYSTEMS THROUGH OUT. DAMPERS ARE NOT INDICATED ON PLANS BUT ARE REQUIRED AT ALL BRANCH TAKE-OFFS.
- 18. PROVIDE TURNING VANES ON ALL 90 DEGREE SQUARE ELBOWS.
- 19. PROVIDE FLEXIBLE DUCT CONNECTIONS WITH MINIMUM 1" GAP ON THE SUPPLY AND RETURN DUCT CONNECTIONS ON ALL FANS.
- 20. ALL SUPPLY AND RETURN DUCTWORK FROM AC UNITS AND FANS SHALL BE LINED WITH 1" ACOUSTIC INSTALLATION TO MINIMUM 15 FEET FROM THE FAN UNLESS NOTED TO BE LONGER. PROVIDE PERFORATED LINING. DUCT SIZE SHALL BE INCREASED TO PROVIDE THE CLEAR INSIDE DIMENSIONS AS NOTED ON PLANS.
- 21. VERIFY MECHANICAL EQUIPMENT LOCATION & DUCT ROUTING WITH ENGINEERING PRIOR TO CONSTRUCTION.
- 22. FACTORY-MADE FLEXIBLE AIR DUCTS AND CONNECTORS SHALL BE NOT MORE THAN 5 FEET IN LENGTH AND SHALL NOT BE USED IN LIEU OF RIGID ELBOWS OR FITTINGS. FLEXIBLE AIR DUCTS SHALL BE PERMITTED TO BE USED AS AN ELBOW AT A TERMINAL DEVICE.

### CALIFORNIA GREEN BUILDING STANDARDS CODE 2022

- ALL HVAC DUCTS ARE REQUIRED TO BE SEALED WITH MASTIC AND SHALL BE TESTED. CONCEALED DUCT SHALL BE INSULATED WITH MIN R-8 DUCT INSULATION.
- AT THE TIME OF ROUGH INSTALLATION OR DURING STORAGE ON THE CONSTRUCTION SITE AND UNTIL START-UP PF THE HEATING AND COOLING EQUIPMENT, ALL DUCTS AND OTHER RELATED AIR DISTRIBUTION COMPONENT EQUIPMENT SHALL BE COVERED WITH TAPE, PLASTIC, SHEETMETAL OR OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY TO REDUCE THE AMOUNT OF DUST OR DEBRIS WHICH MAY COLLECT IN THE SYSTEM. CGBC 5.504.3
- BASED ON THESE PLANS, THE MECHANICAL/BALANCING CONTRACTOR SHALL PROVIDE A TESTING AND ADJUSTING PLAN AND SHALL FOLLOW IT AS PER CALIFORNIA GREEN BUILDING STANDARDS CODE. SECTION 5.410.4.
- IN MECHANICAL VENTILATED BUILDINGS, PROVIDE REGULARLY OCCUPIED AREAS OF THE BUILDING WITH AIR FILTRATION MEDIA FOR OUTSIDE AND RETURN AIR PRIOR OCCUPANCY THAT PROVIDES AT LEAST A MERV 8. CGBC 5.504.5.3
- BUILDINGS SHALL MEET OR EXCEED THE PROVISIONS OF CALIFORNIA BUILDING CODE, CCR, TITLE 24, PART 2, SECTIONS 1203 (VENTILATION) AND CHAPTER 14 (EXTERIOR WALLS). FOR ADDITIONAL MEASURES NOT APPLICABLE TO LOW-RISE RESIDENTIAL OCCUPANCIES, SEE SECTION 5.407.2 OF THIS CODE. CGBC 5.505.1
- FOR MECHANICALLY OR NATURALLY VENTILATED SPACES IN BUILDINGS, MEET THE MINIMUM REQUIREMENTS OF SECTION 120.1 (REQUIREMENTS FOR VENTILATION) OF THE 2022 CALIFORNIA ENERGY CODE, OR THE APPLICABLE LOCAL CODE, WHICHEVER IS MORE STRINGENT, AND DIVISION 1, CHAPTER 4 OF CCR, TITLE 8. CGBC 5.506.1
- FOR BUILDINGS OR ADDITIONS EQUIPPED WITH DEMAND CONTROL VENTILATION, CO2 SENSORS AND VENTILATION CONTROLS SHALL BE SPECIFIED AND INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2022 CALIFORNIA ENERGY CODE, SECTION 120(C)(4). CGBC 5.506.2
- 8. TESTING AND ADJUSTING SYSTEMS SHALL BE REQUIRED FOR BUILDING LESS THAN 10,000 SQFT. CGBC 5.410.4.
- DEVELOP A WRITTEN PLAN OF PROCEDURES FOR TESTING AND ADJUSTING SYSTEMS. SYSTEMS TO BE INCLUDED FOR TESTING AND ADJUSTING SHALL INCLUDE, AS APPLICABLE TO THE PROJECT, THE SYSTEMS LISTED IN SECTION 5.410.4.2.
- 10. PERFORM TESTING AND ADJUSTING PROCEDURES IN ACCORDANCE WITH APPLICABLE STANDARDS ON EACH SYSTEM AS DETERMINED BY THE ENFORCING AGENCY. 5.410.4.3. BEFORE A NEW SPACE-CONDITIONING SYSTEM SERVING A BUILDING IS OPERATED FOR NORMAL USE, BALANCE IN ACCORDANCE WITH THE PROCEDURES DEFINED BY NATIONAL STANDARDS LISTED IN SECTION 5.410.4.3.1. OR AS APPROVED BY THE ENFORCING AGENCY.
- 1. AFTER COMPLETION OF TESTING, ADJUSTING AND BALANCING, PROVIDE A FINAL REPORT OF TESTING SIGNED BY THE INDIVIDUAL RESPONSIBLE FOR OPERATING THESE SERVICES.
- 12. PROVIDE THE BUILDING OWNER WITH DETAILED OPERATING AND MAINTENANCE INSTRUCTIONS AND COPIES OF WARRANTIES FOR EACH SYSTEM PRIOR TO FINAL INSPECTION. INCLUDE A COPY OF ALL INSPECTION VERIFICATIONS AND REPORTS REQUIRED BY THE ENFORCING AGENCY.
- 13. IF THE HVAC SYSTEM IS USED DURING CONSTRUCTION, USE RETURN AIR FILTERS WITH A MERV OF 8, BASED ON ASHRAE 52.2-1999, OR AN AVERAGE EFFICIENCY OF 30% BASED ON ASHRAE 52.1-1992. REPLACE ALL FILTERS IMMEDIATELY PRIOR TO OCCUPANCY. APPLIES TO ADDITIONS OR ALTERATIONS.
- 14. INSTALL HVAC AND REFRIGERATION EQUIPMENT THAT DOES NOT CONTAIN CFCs. CGBG 5.508.1.1.
- 15. INSTALL FIRE SUPPRESSION EQUIPMENT THAT DOES NOT CONTAIN HALONS. CGBC 5.508.1.2.
- 16. ADHESIVES, ADHESIVE BONDING PRIMERS, ADHESIVE PRIMERS, SEALANT, SEALANT PRIMERS AND CAULS SHALL COMPLY WITH LOCAL OR REGIONAL AIR POLLUTION CONTROL OR AIR QUALITY MANAGEMENT DISTRICT RULES WHERE APPLICABLE, OR SCAQMD RULE 1168 VOC LIMITS, AS SHOWN IN CALGREEN TABLES 5.504.4.2. SUCH PRODUCTS SHALL COMPLY WITH THE RULE 1168 PROHIBITION ON THE USE OF CERTAIN TOXIC COMPOUNDS (CHLOROFORM, ETHYLENE DICHLORIDE, METHYLENE CHLORIDE, PERCHLOROETHYLENE AND TRICHLOROETHYLENE). EXCEPT FOR AEROSOL PRODUCTS AS SPECIFIED BELOW. AEROSOL ADHESIVES, AND SMALLER UNIT SIZES OF ADHESIVES, AND SEALANT OR CAULKING COMPOUNDS )IN UNITS OF PRODUCT, LESS PACKAGING, WHICH DO NOT WEIGH MORE THAN ONE POUND AND DO NOT CONSIST OF MORE THAN 16 FUILD OUNCES) SHALL COMPLY WITH STATEWIDE VOC STANDARDS AND OTHER REQUIREMENTS, INCLUDING PROHIBITIONS ON USE OF CERTAIN TOXIC COMPOUNDS, OF CALIFORNIA CODE OF REGULATIONS, TITLE 17, COMMENCING WITH SECTION 94507.

### DUCT TESTING AND INSULATION

- ALL DUCTWORK SHALL BE SEALED AND PRESSURE TESTED FOR LEAKS PER SMACNA REQUIREMENTS IN THE "HVAC AIR DUCT LEAKAGE TEST MANUAL" AND THE CALIFORNIA GREEN BUILDING 2022 STANDARDS.
- INSULATE ALL DUCTWORK AND PIPES PER THE 2022 CALIFORNIA MECHANICAL CODE AND TITLE 24 REQUIREMENT. ALL DUCTWORK SHALL BE INSULATED WITH WOOL FIBER OR FIBERGLASS INSULATION WITH FSK VAPOR BARRIER. ALL PIPES (INCLUDING CONDENSATE PIPING) SHALL BE INSULATED WITH EARTHWOOL FIBERGLASS PIPE INSULATION WITH ASJ+SSL FACING. REFRIGERANT PIPING SHALL BE INSULATED WITH CLOSED CELL INSULATION. ALL DUCTS AND PIPES EXPOSED TO WEATHER (DUCTWORK IN CRAWL SPACES ARE CLASSIFIED AS DUCTWORK EXPOSED TO WEATHER), INCLUDING REFRIGERANT PIPING, SHALL BE PROVIDED WITH ALUMINUM OR SS JACKÉT INSTALLED PER MANUFACTURER'S PRINTED INSTALLATION MANUAL.
- FOR PROJECTS WITH EXISTING DUCTS, PERFORM DUCT CLEANING PER THE "NATIONAL DUCT CLEANERS ASSOCIATION". CLEAN EXISTING DIFFUSERS, GRILLES AND REGISTERS WITHOUT DAMAGING PAIN OR COATING. IF THE DAMAGE IS EXISTING, INFORM ARCHITECT AND TAKE PHOTOS BEFORE PERFORMING CLEANING PROCEDURE.

### SPECIAL HANGING REQUIREMENTS

- FOR ALL ITEMS AND EQUIPMENT BEING SUPPORTED FROM ROOF DECK, SUBMIT COORDINATION DRAWINGS CLEARLY SHOWING DETAILS OF FIELD CONNECTIONS, ANCHORAGE. AND THE RELATIONSHIP TO THE WORK OF OTHERS.
- MECHANICAL CONTRACTOR TO PROVIDE HANGER SUPPORTS AND SEISMIC BRACING AS NEEDED PER LATEST SMACNA SEISMIC RESTRAINT MANUAL. SUBMIT SHOP DRAWING AND HANGER DATA SHEET FOR APPROVAL.

### MECHANICAL SPECIFICATIONS

- GENERAL PROVISIONS THE GENERAL CONDITIONS, SUPPLEMENTS AND AMENDMENTS SHALL GOVERN THIS DIVISION OF THE SPECIFICATIONS.
- PROJECT REQUIREMENTS PROVIDE ALL ITEMS, MATERIALS, EQUIPMENT AND LABOR REQUIRED TO COMPLETE THE WORK OR OPERATIONS MENTIONED HEREIN, OR INDICATED ON THE DRAWINGS AND REASONABLY INFERRED THEREIN, AS REQUIRED TO MAKE A COMPLETE AND WORKING SYSTEM.
  - INTENT WORK SHALL BE DONE IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS AND HEIR INTENT, COMPLETE WITH ALL NECESSARY COMPONENTS, INCLUDING THOSE NOT NORMALLY SHOWN OR CALLED FOR, AND SHALL BE READY FOR OPERATION BEFORE ACCEPTANCE.
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE CODES. NOTHING SHOWN IN THE PLANS OR STATED IN THE SPECIFICATIONS IS INTENDED TO INDICATE THAT THE INSTALLATION OR CONNECTIONS OF ANY ITEM OR DEVICE SHOULD BE DONE CONTRARY TO MANUFACTURERS INSTRUCTIONS AND ALL APPLICABLE CODES AND REGULATIONS. THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT THE INSTALLATION AND CONNECTIONS OF ALL ITEMS AND DEVICES CONFORMS TO MANUFACTURERS INSTRUCTIONS AND TO ALL APPLICABLE CODES AND REGULATIONS.
- ANY REFERENCE TO THE DESIGN AUTHORITY SHALL MEAN MR ENGINEERING, INC.
- THE WORK "PROVIDE" SHALL MEAN "SUPPLY AND INSTALL" UNLESS OTHERWISE INDICATED.
- GOVERNING REGULATIONS THE WORK UNDER MECHANICAL SCOPE OF WORK, SHALL CONFORM, BUT NOT LIMITED TO THE REQUIREMENTS OF THE FOLLOWING CODES, REGULATIONS AND STANDARDS:
- 2022 EDITIONS OF THE CALIFORNIA BUILDING CODE, INCLUDING BUT NOT LIMITED TO THE MECHANICAL. PLUMBING, FIRE AND ENERGY CODES. - SMACNA PUBLICATIONS, INCLUDING BUT NOT LIMITED TO, HVAC DUCT CONSTRUCTION STANDARDS AND GUIDELINES FOR SEISMIC RESTRAINT OF MECHANICAL SYSTEMS. - AABC OR NEBB REGULATIONS GOVERNING TESTING AND BALANCING AND COMMISSIONING OF SYSTEMS. OSHA REGULATIONS.
- PERMITS OBTAIN ALL REQUIRED PERMITS AND PAY ALL FEES THEREFORE AND COMPLY WITH ALL LOCAL AND STATE REGULATIONS. CODES AND BY-LAWS APPLICABLE TO THE WORK.
- 6. <u>RESPONSIBILITY</u> VISIT THE SITE BEFORE SUBMITING A BID AND EXAMINE ALL LOCAL AND EXISTING CONDITIONS ON WHICH THE WORK IS DEPENDENT.

NO CONSIDERATION WILL BE GRANTED FOR ANY MISUNDERSTANDING OF WORK TO BE DONE RESULTING FROM FAILURE TO VISIT THE SITE.

WHEN THE CONTRACT DOCUMENTS DO NOT CONTAIN SUFFICIENT INFORMATION FOR THE PROPER SELECTION OF EQUIPMENT FOR BIDDING, NOTIFY THE DESIGN AUTHORITY DURING THE BIDDING PERIOD. IF CLARIFICATION CANNOT BE OBTAINED, ALLOW FOR THE MOST EXPENSIVE ARRANGEMENT. FAILURE TO DO THIS SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBLITY TO SUPPLY THE INTENDED EQUIPMENT AND OR INSTALLATION.

CHECK DRAWINGS OF ALL TRADES AND SITE SURVEY TO VERIFY SPACE AVAILABILITY FOR THE INSTALLATION. COORDINATE WORK WITH ALL TRADES AND MAKE CHANGES TO FACILITATE SATISFACTORY INSTALLATION. MAKE NO DEVIATIONS TO THE DESIGN INTENT INVOLVING EXTRA COST TO THE OWNER

WORKMANSHIP - WORKMANSHIP SHALL BE IN ACCORDANCE WITH WELL ESTABLISHED PRACTICE AND STANDARDS ACCEPTED AND RECOGNIZED BY DESIGN AUTHORITY AND THE TRADE.

WITHOUT DESIGN AUTHORITY WRITTEN APPROVAL.

BUILDING DIMENSIONS.

EMPLOY ONLY TRADESMEN HOLDING VALID TRADE QUALIFICATION CERTIFICATES. TRADESMEN SHALL PERFORM ONLY WORK THAT THEIR CERTIFICATE PERMITS.

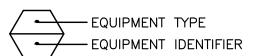
<u>DRAWING AND MEASUREMENTS</u> — DRAWINGS ARE GENERALLY DIAGRAMMATIC AND ARE INTENDED TO

- INDICATE THE SCOPE AND GENERAL ARRANGEMENT OF WORK. DO NOT SCALE DRAWINGS. TAKE FIELD MEASUREMENTS WHERE EQUIPMENT AND MATERIAL DIMENSIONS ARE DEPENDENT UPON
- SUBMITTALS SUBMIT THREE SETS OF ALL EQUIPMENT AND RELATED MATERIAL FOR APPROVAL PRIOR O ORDERING. AFTER 10 DAYS FROM CONTRACT AWARD, SUBMIT DUCT SHOP DRAWINGS TO ARCHITECT FOR ENGINEERS REVIEW.
- 10. <u>RECORD DRAWINGS</u> MAINTAIN ONE CONTRACT DRAWING, WHITE PRINT, ON SITE, SOLELY FOR THE PURPOSE OF RECORDING, IN RED. ANY CHANGES AND/OR DEVIATION FROM THE CONTRACT DRAWINGS
- AT THE COMPLETION OF THE PROJECT, CERTIFY THE ABOVE-MENTIONED DRAWINGS AS BEING ACCURATE AND COMPLETE BY LABELLING IN THE LOWER RIGHT HAND CORNER IN LETTERS OF AT LEAST 🕽 INCH HIGH AS FOLLOWS: "AS-BUILT DRAWINGS. DATED ---". DELIVER TO DESIGN AUTHORITY.
- 11. OPERATING AND MAINTENANCE MANUALS PREPARE INSTRUCTION MANUALS WHICH INCLUDE EQUIPMENT MANUFACTURER'S OPERATING AND MAINTENANCE BULLETINS, AND A REPORT ON THE TESTING AND BALANCING. SUBMIT THREE (3) COPIES TO DESIGN AUTHORITY.
- 12. <u>SERVICES</u> PROTECT ALL SERVICES AND MAKE GOOD ANY DAMAGE CAUSED BY THE WORK IN THIS
- THE PLANS SHOW APPROXIMATE LOCATIONS OF DUCTWORK, PIPING AND EQUIPMENT BASED UPON EXISTING RECORD DRAWINGS. BE PREPARED TO ACCOMMODATE CHANGES IN LOCATION AS MAY BE FOUND ON SITE.
- 13. <u>DUCTWORK CLEANING</u> ALL NEW DUCTWORK SHALL BE WIPED CLEAN OF ALL OIL AND OTHER SURFACE FILMS WITH SUITABLE SOLVENT PRIOR TO INSTALLATION.
- ALL SUPPLY AND RETURN DUCTWORK SHALL BE THOROUGHLY CLEANED BY A PROFESSIONAL DUCT CLEANING AGENCY PRIOR TO REUSE.
- 14. CLEAN UP MAKE GOOD AND CLEAN ALL AREAS DISRUPTED BY THIS WORK.
- 15. <u>BALANCING AIR SYSTEMS</u> BALANCING SHALL BE DONE BY AN AABC OR NEBB CERTIFIED FIRM. ADJUST AIR HANDLING EQUIPMENT AND ASSOCIATED BALANCE DAMPERS ON SUPPLY, RETURN AND EXHAUST SYSTEMS TO WITHIN PLUS OR MINUS 10% OF THE SPECIFIED AIR QUANTITIES. MAINTAIN THE DESIGN PRESSURE RELATIONSHIPS.
- ADJUST DIFFUSERS, REGISTERS AND GRILLES TO OBTAIN OPTIMUM AIR DISTRIBUTION PATTERN.
- MEASURE OUTSIDE AIR QUANTITIES AND CONFIRM THAT THE SPECIFIED OUTSIDE AIR QUANTITIES PER TITLE-24 CALCULATIONS HAVE BEEN PROVIDED THROUGHOUT
- PERMANENTLY MARK THE FINAL BALANCE POSITION ON ALL BALANCE DAMPERS AND ADJUSTABLE TURNING DEVICES.
- SUBMIT A REPORT TO THE DESIGN AUTHORITY INDICATING FINAL AIR QUANTITIES OBTAINED.
- 16. EQUIPMENT START UP AND COMMISSIONING
- CHECK AND ADJUST REFRIGERANT CHARGE AS REQUIRED FOR PROPER OPERATION.
- BALANCE AC UNITS TO PROVIDE SPECIFIED AIR FLOWS.
- PROVIDE ALL AC UNITS WITH NEW MERV 13 FILTERS. FILTER.
- TEST ALL EQUIPMENT.
- TO ASSURE THAT ALL FUNCTIONS AND PERFORMANCE ARE AS INDICATED ON THE MANUFACTURER'S RATING. ALL EQUIPMENT SHALL BE BALANCED AND TESTED TO PROVIDE THE OWNER WITH FUNCTIONING SYSTEMS. THE HVAC SYSTEMS SHALL HAVE A MINIMUM OF ONE YEAR WARRANTY ON ALL PARTS AND LABOR OR LONGER AS AGREED BETWEEN OWNER AND CONTRACTOR.
- 17. <u>KITCHEN HOOD EXHAUST DUCT</u>
- SEE DRAWING MO.8 FOR GREASE EXHAUST DUCT REQUIREMENTS.

SYMBOL	ABBREV	DESCRIPTION	ABBREV	DESCRIPTION
•	POC	POINT OF CONNECTION	EQPT.	EQUIPMENT
•	POD	POINT OF DISCONNECTION	KW	KILOWATT
		EXISTING EQUIPMENT OR PIPING TO REMAIN	LBS	POUNDS
		NEW EQUIPMENT OR PIPING	MAX	MAXIMUM
W. www.		REMOVE EXISTING EQUIPMENT OR PIPING	MECH	MECHANICAL
<b>*************************************</b>	FD	FLEX DUCT	MFR	MANUFACTURER
		SIDEWALL REGISTER	MIN	MINIMUM
$\overline{\boxtimes}$		CEILING SUPPLY DIFFUSERS	MTD	MOUNTED
		CEILING RETURN DIFFUSERS	(N)	NEW
		CEILING EXHAUST DIFFUSERS	NOS	NUMBERS
		DUCT SECTION - SUPPLY AIR	OBD	OPPOSED BLADE DAMPER
		DUCT SECTION - RETURN AIR	OSA	OUTSIDE AIR
		DUCT SECTION — EXHAUST AIR	HP	HORSEPOWER
[>×<]		SUPPLY AIR DUCT DOWN	HR	HOUR
		RETURN AIR DUCT DOWN	QTY	QUANTITY
		EXHAUST AIR DUCT DOWN	RA .	RETURN AIR
<u></u>		CARBON DIOXIDE (CO2) SENSOR/DETECTOR	RG	RETURN AIR GRILLE
Ū		ROOM THERMOSTAT/TEMPERATURE SENSOR	RAD	RETURN AIR DUCT
+-		DOOR UNDERCUT	RR	RETURN AIR REGISTER
<u> </u>		DUCT SMOKE DETECTOR	SA	SUPPLY AIR
	VD	VOLUME DAMPER	SAD	SUPPLY AIR DUCT
	CD	CEILING DIFFUSER	SR	SUPPLY AIR REGISTER
	BTU	BRITISH THERMAL UNITS	SF	SQUARE FEET
	BTUH	BRITISH THERMAL UNITS PER HOUR	FSD	SMOKE/FIRE DAMPER
	CFM	CUBIC FEET PER MINUTE	SS	STAINLESS STEEL
	DWGS	DRAWINGS	TEMP	TEMPERATURE
4-	DG	DOOR GRILLE	TYP	TYPICAL
	SFD	COMBINATION SMOKE/FIRE DAMPER	TA	TRANSFER AIR
	VD	VOLUME DAMPER WITH CONCEALED REGULATOR	T/A	TO ABOVE
T		THERMOSTAT	T/B	TO BELOW
	(E)	EXISTING	TR	TRANSFER REGISTER
	EA	EACH		VOLTS/PHASE/HERTZ
	EAD	EXHAUST AIR DUCT		VARIABLE VOLÚME CONTROL
	EAR	EXHAUST AIR REGISTER	VOL	VOLUME
	EF	EXHAUST FAN	VTR	VENT THRU ROOF
	HVAC	HEATING VENTILATION & AIR CONDITIONING	W/	WITH
	°F	DEGREES FAHRENHEIT	WC WC	WATER COLUMN
	F/A	FROM ABOVE	WPD	WATER PRESSURE DROP
	F/B	FROM BELOW	WT	WEIGHT
	FLR	FLOOR	MUA	MAKE UP AIR
	FT	FEET OR FOOT	1410/1	
	GALV	GALVANIZED		
	I OUF	I OUTEN MAILED		

MECHANICAL LEGEND

### **EQUIPMENT IDENTIFICATION SYMBOL**



### SCOPE OF WORK

1. PROVIDE NEW FAN COIL UNIT WITH HEAT PUMP.

GALLONS PER MINUTE

REFRIGERANT LINE

POUNDS PER SQUARE INCH

POUNDS PER SQUARE INCH GAUGE

- 2. PROVIDE NEW TYPE I KITCHEN EXHAUST HOOD.
- 3. PROVIDE NEW SUPPLY FAN FOR VENTILATION.

### DRAWING INDEX

- MECHANICAL SPECIFICATIONS, LEGEND AND GENERAL NOTES MO.1
- M0.2 MECHANICAL SCHEDULES

GPM

PSIG

-R–R–R– l

- MECHANICAL T24 FORMS M0.3
- M0.4 MECHANICAL T24 FORMS M2.1 MECHANICAL FLOOR & ROOF PLAN PLAN
- M3.1 MECHANICAL DETAILS
- M3.2 MECHANICAL DETAILS
- M4.1 MECHANICAL HOOD DETAILS
- M4.2 MECHANICAL HOOD DETAILS
- MECHANICAL HOOD DETAILS M4.3M4.4 MECHANICAL HOOD DETAILS
- M4.5 MECHANICAL HOOD DETAILS
- M4.6 MECHANICAL HOOD DETAILS M4.7
- MECHANICAL HOOD DETAILS M4.8 MECHANICAL HOOD DETAILS

### Ren. <u>6/30/23</u>

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AVENUE IAL CITY

ENGINEERING CONSULTANTS INC

R S I

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S A

DESCRIPTION

TITLE:

**MECHANICAL SPECIFICATIONS** LEGEND AND IGENERAL NOTES

DRAWN: CHECKED: SCALE: NONE

28/06/2023 2:56:07 am

JOB NO:B2306-AA123

DATE: 06.28.2023

### FAN COIL UNIT SCHEDULE

MARK	MANUFACTURER	SERVICE	SUPPLY AIR	E.S.P.	TOTAL COOLING CAPACITY	TOTAL HEATING CAPACITY		EL	ECTRICAL DA	ΤΑ		UNIT DIMENSIONS	UNIT WEIGHT	SOUND LEVEL	QTY.	DEMARKS
MARK	& MODEL	SERVICE	(CFM)		(MBH)	(MBH)	MCA	МОСР	VOLT	PH	HZ	WIDTH X HEIGHT X DEPTH	(LBS.)	dB(A)	QII.	REMARKS
FCU 1	LG LMN249HVT	AS SHOWN	600	_	24.0	25.6	0.4	15	208-230	1	60	39-9/32" x 6-1/16" x 13-19/32"	25.6	46	2	1, 2, 3, 4

- 1. NEW FAN COIL UNIT.
- 2. PROVIDE WITH MERV 13 FILTER MOUNTED AT RETURN GRILLE, SECONDARY DRAIN PAN, CONDENSATE PUMP, AND DISCONNECT SWITCH.
- 3. PROVIDE WITH PROGRAMMABLE T24 APPROVED TSATS. COORDINATE FINAL LOCATION W/ OWNER REPRESENTATIVE.
- 4. INSTALL PER MANUFACTURER'S RECOMMENDATION.

OUTDOOR UNIT SCHI

MARK	MANUFACTURER & MODEL	SERVICE	ELECTF	RICAL DATA	MCA	SEER	HSPF	TOTAL COOLING CAPACITY (MBH)	TOTAL HEATING CAPACITY (MBH)	UNIT DIMENSIONS  WIDTH X HEIGHT X DEPTH	TOTAL STD UNIT WT. (LBS.)	SOUND LEVEL dB(A)	REMARKS
HP 1	LG LMU481HV	FCU FCU 2	208~230/1/60	40	32.7	20.8	9.5	48.0	54.0	37-13/32" X 54-11/32" X 13"	192	55	1, 2, 3, 4

- 1. PROVIDE WITH REFRIGERANT PIPE HEADER KIT AND REFRIGERANT R410A.
- 2. COOLING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 80°F/67°F, OUTDOOR AIR OF 95°F.

3. HEATING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 70°F, OUTDOOR AIR OF 47°F.

4. INSTALL PER MANUFACTURER'S RECOMMENDATION.

	EXHAUST HOOD SCHEDULE										
MARK MANUF. & MODEL SERVICE EXHAUST (CFM) MAKE-UP AIR (CFM) MAKE-UP AIR (CFM) DUCT SIZE EXHAUST DUCT SIZE EXHAUST S.P. DIMENSIONS WT. (LBS.)								REMARKS			
$\left\langle \frac{H}{1} \right\rangle$	CAPTIVEAIRE 5424 ND-2-PSP-F	KITCHEN	1725	_	14"ø	-0.711"	104"	54"	30"	801	1

1. INSTALL PER MANUFACTURER'S INSTRUCTION.

	K	ITCHE	N EXI	HAUS	T FAI	N SCHEDULE		
			ESP	FAN		ELECTRICAL	OPER.	

MARK	MANUF. & MODEL	LOCATION	SERVICE	CFM	ESP			ELECTRICAL				SONES								OPER. WT.	REMARKS
IVIAIN	MANOF. & MODEL	LOCATION	SERVICE	CFM	(IN.)	(RPM)	SONES	V. / PH. / HZ. HI		(LBS.)	REMARKS										
KEF 1	CAPTIVEAIRE DU180HFA	ROOF	KITCHEN HOOD	1725	1.0	966	9.5	208/3/60	1.0	153	1, 2, 3, 4										

- 1. INSTALL AS PER MANUFACTURER'S INSTRUCTION.
- 3. PROVIDE WITH DISCONNECT SWITCH AND PREMIUM EFFICIENCY MOTOR.
- 2. FAN TO OPERATE ON A WALL MOUNT SWITCH. 4. FAN SHALL MEET NFPA 96 STANDARDS FOR GREASE DUCT. PROVIDE VENTILATED ROOF CURB AND GREASE CUP.

SUPPLY	FAN	SCHEDULE

MARK	MANUF. & MODEL	LOCATION	SERVICE	CFM	ESP	SONES	ELECTRICAL		OPER. WT.	QTY.	REMARKS
					(IN.)	SUNES	V. / PH. / HZ.	POWER	(LBS.)	QII.	REMARKS
SF 1	GREENHECK CSP-A3300-VG OR APPROVED EQUAL	CEILING	AS SHOWN	1725	0.8	4.3	115/1/60	422 WATTS	122	1	1, 2, 3, 4

- 1. PROVIDE WITH CEILING GRILLE VIBRATION ISOLATOR KIT, FAN TERMINATION CAP WITH BIRD SCREEN AND BACK DRAFT DAMPER.
- 2. INSTALL PER MANUFACTURER'S INSTRUCTIONS.
- 3. BATHROOM EXHAUST FAN SHALL BE "ENERGY STAR" COMPLIANT AND DUCTED TO TERMINATE OUTSIDE OF THE BUILDING(CGBSC 4.506.1.1)
- 4. INTERLOCK TO OPERATE WHEN HOOD (H-1) IS IN OPERATION.

### DUCT MATERIAL SCHEDULE

(FOR LOW PRESSURE DUCTWORKS W/S.P. LESS THAN 2" W.G., LESS THAN 2000 FPM

<u>RECTANGULAR</u>

DIMENSION: 4"-18" 19"-30" 31"-54" 55"-8
GAUGE: 26 ga. 24 ga. 22 ga. 20 gc

ROUND

DIMENSION: 3"-14" 15"-23" 24"-37" 37"-50 GAUGE: 26 ga. 24 ga. 22 ga. 20 ga.

DUCT CONSTRUCTION SHALL COMPLY WITH CMC 2019, SMACNA METAL AND FLEXIBLE DUCT CONSTRUCTION STANDARD AND UL 181, WHICHEVER IS THE MOST STRINGENT SHALL PREVAIL.

HEATING	AND	COOLING	DUCT	SYSTEM

AIRFLOW CFM			OR RETURN DUCT SIZE		TABLE A
200	8" RD	OR	6" X 8"		
300	9" RD	OR	8" X 8"		
400	10" RD	OR	10" X 8"		
500	11" RD	OR	14" X 8"	10" X 10"	
600	12" RD	OR	16" X 8"	12" X 10"	
700	13" RD	OR	18" X 8"	14" X 10"	12" X 12"
800	14" RD	OR	22" X 8"	16" X 10"	14" X 12"
1000	16" RD	OR	28" X 8"	20" X 10"	16" X 12"
1200	17" RD	OR	32" X 8"	24" X 10"	20" X 12"
1400	18" RD	OR		28" X 10"	24" X 12"
1600	20" RD	OR		32" X 10"	28" X 12"
1800	21" RD	OR			30" X 12"
2000	22" RD	OR			34" X 12"
AIRFLOW		SUPPI	_Y BRANCH		TABLE

AIRFLOW CFM	<u>SUPPLY BRANCH</u> <u>DUCT SIZE</u>					
80	5" RD					
120	6" RD OR 3-1/2" X 10"					
160	7" RD					

### AIR DISTRIBUTION SCHEDULE

MARK	MANUFACTURER & MODEL OR EQUAL	SERVICE TYPE		FINISH	MODULE SIZE	NECK SIZE	REMARKS
CD-1	TITUS 350R OR APPROVED EQUAL	SUPPLY	CEILING	WHITE	24"×24"	24"x24"	1
FAG-1	RUSKIN ELF6375DXH OR APPROVED EQUAL	FRESH AIR	WALL	WHITE	36"x24"	_	1
FAG-1	APPROVED EQUAL	FRESH AIR	WALL	WHILE	J0 X24		'

1. INSTALL PER MANUFACTURER'S INSTRUCTIONS.

SABOR PIRI PIRI
FENANT IMPROVEMENT
800 B AVENUE SUITE 804
NATIONAL CITY CA 91950





TITLE:

MECHANICAL SCHEDULES

JOB NO:B2306-AA123
DRAWN: CL
CHECKED: CZ

DATE: 06.28.2023

SCALE:

M0.2

te of california    echanical Systems	STATE OF CALIFORNIA  Mechanical Systems  CALIFORNIA ENERGY COMMISSION	STATE OF CALIFORNIA  Mechanical Systems  CALIFORNIA ENERGY COMMI
NRCC-MCH-E is document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive th outlined in 140.4, or 141.0(b)2 for alterations.	CERTIFICATE OF COMPLIANCE       Project Name:     SABOR PIRI PIRI TENANT IMPROVEMENT     Report Page:     (Page 2 of 9)       Date Prepared:     2023-06-27T05:25:20-04:00	CERTIFICATE OF COMPLIANCE  Project Name: SABOR PIRI PIRI TENANT IMPROVEMENT  Report Page: (Page Date Prepared: 2023-06-27T05:25:20
lect Name: SABOR PIRI PIRI TENANT IMPROVEMENT Report Page: (Page 1 of 9) lect Address: 800B Avenue Suite 80, National City CA 91950 Date Prepared: 2023-06-27T05:25:20-04:00	<b>Date repared.</b> 2023 00 27103.23.20 04.00	Date   Tepared.   2023 00 2/103.23.20
	C. COMPLIANCE RESULTS	F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)
Project Location (city)  NATIONAL CITY  04 Total Conditioned Floor Area  450	Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D., or the table indicated as not compliant for guidance.	Dry System Equipment Sizing (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters and DOAS systems)  01 02 03 04 05 06 07 08 09 10
Climate Zone 7 05 Total Unconditioned Floor Area 0 Occupancy Types Within Project: 06 # of Stories (Habitable Above Grade) 1	01 02 03 04 05 06 07 08 09 System	Equipment Sizing per Mechanical Schedule (kBtu/h) 140.4(a&b), 170.2(c)1 & 170.2(c)2
estaurant	Summary 110.1, AND Pumps AND Economizers AND 140.4(c) AND 110.3 130.3 AND Ventilation AND Controls AND 120.3, AND Cooling Towers	Name or Item Tag Equipment Category per Tables 110.2, 140.4(a)2 and Tag Tables 110.2, 140.4(a)2 ii Title 20 Supp. Sensible Sup
ROJECT SCOPE	110.2, 140.4(e), 140.4(f), 170.2(c)4l 140.4(f), 170.2(c)4B 160.2, 160.3	170.2(c)3aii  170.2(c)1  Per Design (kBtu/h)   Rated   Heating (kBtu/h)   Output   Sensible Per Design (kBtu/h)   Coulomb (kBtu
s table Includes mechanical systems or components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 1.4, 170.2(b) or 141.0(b)2 and 180.2(b)2 for alterations.	170.2(c) 170.2(d) 170.2(d) (See Table G) (See Table H) (See Table I) (See Table J) (See Table K) (See Table L) (See Table M)	HP-1   Unitary Heat Pumps   Air-cooled, pkg (1phase)   Yes   54,000   47,600   0   48,000   48,000   30000   24,
01 02 03  Air System(s) Wet System Components Dry System Components	Yes AND AND Yes AND Yes AND Yes AND Yes AND Yes AND COMPLIES with Exceptional Conditions	<sup>1</sup> FOOTNOTES: Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and cooling loads of the buildir 140.4(a) and 170.2(c)1. Healthcare facilities are excepted.
☑ Heating Air System   ☐ Water Economizer   ☐ Air Economizer	Mandatory Measures Compliance (See Table Q for Details)  COMPLIES	<sup>2</sup> It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tables. <sup>3</sup> If equipment is heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and load blank.
☑ Cooling Air System       ☐ Pumps       ☐ Electric Resistance Heat         Mechanical Controls       ☐ System Piping       ☐ Fan Systems	D. EXCEPTIONAL CONDITIONS	<sup>4</sup> Authority Having Jurisdiction may ask for load calculations used for compliance per 140.4(b) and 170.2(c).  Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP), DX-DOAS and Dual Fuel Heat Pumps)
Mechanical Controls (existing to remain, altered or new)  Cooling Towers  Ductwork (existing to remain, altered or new)	This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.  The permit applicant has indicated on Table J that natural ventilation is being utilized to meet ventilation requirements. Additional documentation may be requested by the Authority	01 02 03 04 05 06 07 08 09 Heating Mode Cooling Mode
☐ Chillers       ☑ Ventilation         ☐ Boilers       ☐ Zonal Systems/ Terminal Boxes	Having Jurisdiction demonstrating compliance for natural ventilation design.	Name or Item Size Category Rating Efficiency Efficiency
	E. ADDITIONAL REMARKS	Tag (Btu/h) Condition Efficiency Unit Required per Tables 110.2 / Design Efficiency Unit Unit Required per Tables 110.2 / Design Efficiency Unit Unit Unit Unit Unit Unit Unit Unit
	This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.	HP-1 <65,000 HSPF2 6.7 9.5 SEER2 14.3 20.8
	F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)  Space Conditioning System Information	G. PUMPS
	01     02     03     04     05     06       System Name     Quantity     System Serving     System Status     Space Type     Utilizing Recovered Heat	This section does not apply to this project.
	HP-1 1 Multi-zone	
Building Energy Efficiency Standards - 2022 Nonresidential Compliance  Generated Date/Time:  Documentation Software: Energy Code Ace  Compliance ID: 117190-0623-0003	CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance  Report Version: 2022.0.000  Compliance ID: 117190-0623-0003	Generated Date/Time: Documentation Software: Energy Cod  CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 117190-0623
Schema Version: rev 20220101 Report Generated: 2023-06-27 02:25:25	Schema Version: rev 20220101 Report Generated: 2023-06-27 02:25:25	Schema Version: rev 20220101 Report Generated: 2023-06-27 02:
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Date Prepared: 2023-06-27T05:25:20-04:00	Date Prepared: 2023-06-27T05:25:20-04:00	Date Prepared: 2023-06-27T05:25:20
	J. VENTILATION AND INDOOR AIR QUALITY	L. DISTRIBUTION (DUCTWORK and PIPING)
FAN SYSTEMS & AIR ECONOMIZERS is section does not apply to this project.	04 05 06 07  Air Filtration per 120 1(c) 141 0(b)2 and	This table is used to show compliance with mandatory pipe insulation requirements found in 120.3 and mandatory requirements found in 120.4(g) for duct sealing.  Insulation shall be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind. Insulation exposed to
SYSTEM CONTROLS	System Name HP-1 System Design OA CFM Airflow 70 System Design Transfer Air CFM 0 160.2(c)21 <sup>2</sup> NA: Not system type specified in footnote 2	outside the conditioned space shall have a Class II vapor retarder. All penetrations and joints of which shall be sealed.
is table is used to demonstrate compliance with mandatory controls in 110.2 and 120.2 and prescriptive controls in 140.4(f) and (n), 170.2(c)4D 170.2(c)4L or requirements in 1.0(b)2E 180.2(b)2 for altered space conditioning systems.	08 09 10 11 12 13 14 15 16	Duct Leakage Testing  NR/ Common Use: Duct leakage testing shall not exceed 15% per No.
01 02 03 04 05 06 07 08 09    Conditioned   Thermostats   Shut-Off   Solation   Supply Air   Supply Air   Condition   Conditio	Space Name    Mechanical Ventilation Required per 120.1(c)3 & 160.2(c)3   160.2(c)4   DCV or Sensor Controls per 120.1(d)3, 120.1(d)5, and 120.1(e)36 160.2(c)5D	NA7.5.3 required for these systems?  Dwelling Units: Total duct leakage of duct system shall not exceed 15%
System Name  System Zoning Served   110.2(b) & (c) <sup>1</sup> , 120.2(a)   Controls   Controls   Controls   120.2(e) &	or Item Tag  Occupancy Type <sup>4</sup>	The answers to the questions below apply to the following duct systems:  M0.1 or duct system to outside shall not exceed 10% per RA3.1.4 required for systems?
(π°) 180.2(b)2 160.3(a)2F 170.2(c)4D	SABOR PIRI All others 450 67.5 DCV NA: Not required per §120.1(d)3	Duct leakage testing per CMC Section 603.10.1 required for these systems?  Yes
FCU-1   Single zone   <= 25,000 ft <sup>2</sup>   Setback   Occ. Sensor   Occ. Sensor   DR Tstat per 110.12   NA: No operable windows   OCTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to	PIRI Occ Sensor NA: Not required space type	11 No The scope of the project includes only duct systems serving healthcare facilities  12 No Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.
ve setback thermostats.	17 Total System Required Min OA CFM 67.5 18 Ventilation for this System Complies? Yes  1 FOOTNOTES: System CFM should include both mechanical and natural ventilation for the zone/system	13 Yes The space conditioning system serves less than 5,000 ft² of conditioned floor area.  14 Yes The <u>combined</u> surface area of the ducts is more than 25% of the total surface area of the entire duct system:
VENTILATION AND INDOOR AIR QUALITY is table is used to demonstrate compliance with mandatory ventilation requirements in 120.1 120.2(e)3B 140.4(p) and 140.4(q) for all nonresidential and hotel/motel and	<sup>2</sup> Air filtration requirements apply to the following three system types per 120.1(c)1A: space conditioning systems utilizing ducts to supply air to occupiable space; supply-only ventilation systems providing outside air to occupiable space; supply side of balanced ventilation systems including heat recovery and energy recovery ventilation systems providing outside air to	15 No The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.  The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verific
24refnolink/]160.2, 160.3(a)3D, 170.2(a)4N, 170.2(a)4O for high-rise residential occupancies. For alterations, only ventilation systems being altered within the scope of the permit plication need to be documented in this table. In lieu of this table, the required outdoor ventilation rates and airflows may be shown on the plans or the calculations can be presented a spreadsheet.	occupiable space.  3 Uniform Mechanical Code may have more stringent ventilation requirements; the most stringent code requirement takes precedence.  4 Sea Strundard Tables 100.1.4 and 100.1.8	and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.  Yes All Ductwork and plenums with pressure class ratings shall be constructed to Seal Class A
O1 Check the box if the project is showing ventilation calculations on the plans, or attaching the calculations instead of completing this table.  Check this box if the project included Nonresidential, Hotel/Motel Spaces or Multifamily Common Use Spaces	<sup>4</sup> See Standards Tables 120.1-A and 120.1-B. <sup>5</sup> For lecture halls with fixed seating, the expected number of occupants shall be determined in accordance with the California Building Code.	18 No All ductwork is an extension of an existing duct system  19 No Ductwork serving individual dwelling unit
	<sup>6</sup> 120.2(e)3 requires systems serving rooms that are required by 130.1(c) to have lighting occupancy sensing controls to also have occupancy sensing zone controls for ventilation.  Examples of spaces which require lighting occupancy sensors include offices 250ft² or smaller, multipurpose rooms less than 1,000 ft², classrooms, conference rooms, restrooms, aisles and open areas in warehouses, library book stack aisles, corridors, stairwells, parking garages, and loading and unloading zones, unless excepted by 130.1(c).	20 < 25 ft of new or replacement space conditioning ducts installed 21 R-8 Dust Insulation R-value
03 Check the box if the project is using natural ventilation in any nonresidential or hotel/motel spaces to meet required ventilation rates per 120.1(c)2.  Interior of the project is using natural ventilation in any nonresidential or hotel/motel spaces to meet required ventilation rates per 120.1(c)2.  Interior of the project is using natural ventilation in any nonresidential or hotel/motel spaces to meet required ventilation rates per 120.1(c)2.		22 No Ductwork Existing To Remain 23 Yes Duct System Connected To Altered Space Conditioning System
	K. TERMINAL BOX CONTROLS  This section does not apply to this project.	
Generated Date/Time: Documentation Software: Energy Code Ace	Generated Date/Time: Documentation Software: Energy Code Ace	Generated Date/Time: Documentation Software: Energy Cod
A Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 117190-0623-0003	CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 117190-0623-0003	CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 117190-0623
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re of California  echanical Systems  California Energy Commission	STATE OF CALIFORNIA  Mechanical Systems  CALIFORNIA ENERGY COMMISSION	STATE OF CALIFORNIA  Mechanical Systems  CALIFORNIA ENERGY COMMI
RTIFICATE OF COMPLIANCE  NRCC-MCH-E  ject Name: SABOR PIRI PIRI TENANT IMPROVEMENT Report Page: (Page 7 of 9)	CERTIFICATE OF COMPLIANCE       NRCC-MCH-E         Project Name:       SABOR PIRI PIRI TENANT IMPROVEMENT       Report Page:       (Page 8 of 9)	CERTIFICATE OF COMPLIANCE       NRCC-         Project Name:       SABOR PIRI PIRI TENANT IMPROVEMENT       Report Page:       (Page)
Date Prepared:         2023-06-27T05:25:20-04:00	Date Prepared:         2023-06-27T05:25:20-04:00	Project Address: 800B Avenue Suite 80, National City CA 91950 Date Prepared: 2023-06-27T05:25:20
COOLING TOWERS	Q. MANDATORY MEASURES DOCUMENTATION LOCATION	DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
is section does not apply to this project.	This table is used to indicate where mandatory measures are documented in the plan set or construction documentation.  01 02	I certify that this Certificate of Compliance documentation is accurate and complete.  Documentation Author Name:  RAMIL BATIANCILA  Documentation Author Signature:  Documentation Author Signature:
DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION	Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Block  No  Plan sheet or construction document location	Company: MR ENGINEERING CONSULTANTS, INC.  Signature Date: 2023-06-27
lections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. ese documents must be provided to the building inspector during construction and can be found online at	03 04  Mandatory Measure Plan sheet or construction document location	Address: 39210 STATE ST. STE 106 CEA/ HERS Certification (if applicable): City/State/Zip: FREMONT, CA 94538 Phone: 510-509-2362  RESPONSIBLE PERSON'S DECLARATION STATEMENT
tps://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/  Form/Title	Heating Equipment Efficiency per 110.1 M0.2  Cooling Equipment Efficiency per 110.1 M0.2	I certify the following under penalty of perjury, under the laws of the State of California:  1. The information provided on this Certificate of Compliance is true and correct.
CI-MCH-01-E - Must be submitted for all buildings	Furnace Standby Loss Control per 110.2(d)  Duct Insulation per 120.4  M0.1	<ol> <li>I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)</li> <li>The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the require of Title 24, Part 1 and Part 6 of the California Code of Regulations.</li> </ol>
DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE	Heat Pump with Supplemental electric Resistance Heater Controls per 110.2(b)  The air duct and plenum system is designed per 120.4(a)-(f)  N/A	<ol> <li>The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculation plans and specifications submitted to the enforcement agency for approval with this building permit application.</li> <li>I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all application.</li> </ol>
lections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. ese documents must be provided to the building inspector during construction and can be found online at	Kitchen range hoods shall be rated for sound in accordance with Section 7.2 of ASHRAE 62.2  TYPE 1	inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.  Responsible Designer Name: LEVI MALABUYO Responsible Designer Signature:
tps://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/  Form/Title  Systems/Spaces To Be Field		Company:         MR ENGINEERING CONSULTANTS, INC.         Date Signed:         2023-06-27           Address:         39210 STATE ST. STE 106         License:         M26141           City/State/Zip:         FREMONT. CA 94538         Phone:         510-509-2362
Verified  CCA-MCH-02-A - Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in conjunction with MCH-07-A  HP-1		
pply Fan VFD Acceptance (if applicable) since testing activities overlap.  CA-MCH-19-A Occupancy Sensor Controls  FCU-1		
DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION		
DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION  ere are no NRCV forms required for this project.		
Generated Date/Time: Documentation Software: Energy Code Ace  A Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 117190-0623-0003	Generated Date/Time: Documentation Software: Energy Code Ace  CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 117190-0623-0003	Generated Date/Time: Documentation Software: Energy Cod  CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 117190-0623

SABOR PIRI PIRI
TENANT IMPROVEMENT
800 B AVENUE SUITE 804
NATIONAL CITY CA 91950



TLE:

MECHANICAL T24 FORMS

JOB NO:B2306-AA123
DRAWN: CL
CHECKED: CZ
SCALE: NONE
DATE: 06.28.2023

M0.3

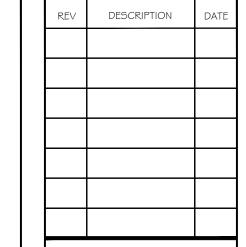
Process Systems				CALIFORNIA ENERGY COMMIS:	Process Systems     CALIFORNIA ENERGY COMMIS       CERTIFICATE OF COMPLIANCE     NRCC-       Project Name:     SABOR PIRI PIRI TENANT IMPROVEMENT     Report Page:     (Page 2)							
CERTIFICATE OF COMPLIA		ems that are within the scope of	of the permit application and are demonstra	NRCC-P ing compliance with mandatory requirements in 120.6/ 16:								
or prescriptive requiren	ments in 140.9. This com	ms and are within the scope of pliance document is used for ne	of the permit application and are demonstra ewly constructed, addition and alteration pr	д сотравное with mandatory requirements in 120.6/ 16 njects.	Project Name: SABOR PIRI PIRI TENANT INFROVEMENT Report Page: (Page Project Name: SABOR PIRI PIRI TENANT INFROVEMENT Report Page: (Page Project Name: SABOR PIRI PIRI TENANT INFROVEMENT REPORT Page: (Page Project Name: SABOR PIRI PIRI TENANT INFROVEMENT REPORT Page: (Page Project Name: SABOR PIRI PIRI TENANT INFROVEMENT REPORT Page: (Page Project Name: SABOR PIRI PIRI TENANT INFROVEMENT REPORT Page: (Page Project Name: SABOR PIRI PIRI TENANT INFROVEMENT REPORT Page: (Page Project Name: SABOR PIRI PIRI TENANT INFROVEMENT REPORT Page: (Page Project Name: SABOR PIRI PIRI TENANT INFROVEMENT REPORT Page: (Page Project Page: Page Project Page Page Page Page Page Page Page Page							
	R PIRI PIRI TENANT IMPROV		Report Page:	(Page 1								
roject Address: 800B	Avenue Suite 80, National C	ity CA 91950	Date Prepared:	2023-06-27T05:19:43-0	J							
					C. COMPLIANCE RESULTS							
. GENERAL INFORM	MATION				Results in this table are automatically calculated from data input and calculations in Tables F through R. Note: If any cell on this table says "COMPLIES with Exceptional Condition"							
_	Location (city)	NATIONAL CITY		DO THE DEPOSIT OF THE PROPERTY	to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.							
	mate Zone	7	05 Total Uncondition		01 02 03 04 05 06 07 08 09 10 11 12 13							
3	Occupancy Type	s Within Project:	06 # of Stories (Habitab	e Above Grade) 1	Refrigerate Parking Parking Escalators & Communic Laboratory/							
Restaurant					d Commercial Garage Warehouse Refrigeratio Grange Boilers Air Systems 120.6(f) / Wolfar Rooms Refrigeratio Garage Boilers Air Systems 120.6(f) / Wolfar Rooms Room							
					/ Space   n 120.6(b)   Exhaust   120.6(d)   Air Systems   160.7   Wakways   140.9(a)   140.9(b)   Exhaust   Horticulture   120.6(i)   160.7   Com							
B. PROJECT SCOPE					(See Table   G) (See Table   Table   (See Table   Table   See Tabl							
		hin the scope of the permit app	olication and are demonstrating compliance	with mandatory requirements in 120.6 / 160.7 or prescript	F) H) date ty							
equirements in 140.9.					Yes COM							
My project consists of:	f: (check all that apply):			02								
☐ Refrigerated		no Title 24, Pt6 requirements)	☐ Escalator & Movin	walkway Speed Controls (mandatory 120.6(g))	D. EXCEPTIONAL CONDITIONS							
	I Spaces >=3,000 ft <sup>2</sup> Total			mandatory 120.6(j) and prescriptive 140.9(a)) <sup>1</sup>	This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.							
	rage Stores >8,000 ft <sup>2</sup> cfa			n Ventilation/Exhaust (prescriptive 140.9(b)) <sup>1</sup>								
	-	0,000 cfm (mandatory 120.6(c		:/Factory Exhaust & Fume Hood (prescriptive 140.9(c)) <sup>1</sup>	E. ADDITIONAL REMARKS							
	lled Process Boilers (man		Pool/Spa (mandate		This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.							
		P >= 25 (mandatory 120.6(e))		ment Horticulture (mandatory 120.6(h))								
		ols (mandatory 120.6(f) / 160.7	· · · · · · · · · · · · · · · · · · ·	mandatory 120.6(i))	F. REFRIGERATED WAREHOUSES/SPACES							
	ouilding features can com	oly using the performance met	hod. If using the performance method for th	ese features, compliance should be demonstrated on the	This section does not apply to this project.							
IRCC-PRF-E.					1							
					G. COMMERCIAL REFRIGERATION							
					This section does not apply to this project.							
					This section does not apply to this project.							
STATE OF CALIFORNIA Process Systems CERTIFICATE OF COMPLIA				CALIFORNIA ENERGY COMMIS:								
	R PIRI PIRI TENANT IMPROV	EMENT	Report Page:	(Page 4								
			Date Prepared:	2023-06-27T05:19:43-0	Date Prepared:         2023-06-27T05:19							
L COMMERCIAL KIT	TCHEN EXHAUST AND	/FNTII ATION										
ti commenciae kii	TOTAL EXTRAOR AND		ement Air to Hood Compliance Method 140	.9(b)1A	R. Pool & SPAs							
02			ectly to the hood(s) that does not exceed 10	- Code Code Code Code Code Code Code Code	This section does not apply to this project.							
03	Mechanically coole			gned per 140.9(b)2A to not exceed the greater of:								
			low required to meet the space heating and	cooling load	S. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION							
04		that is supplying transfer air:			Selections have been made based on information provided in this document. If any selections have been changed by permit applicant, an explanation should be included in Table							
05 Th			kitchen hood exhaust airflow > 5000 cfm and having a total Type I and Type II kitchen hoo	l is designed to have one of the following per 140.9(b)2B:	Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/							
itchen Exhaust: Airf	rflow Rate 140.9(b)1B	. Not a Nitcheny unning lacility I	naving a total type Lanu Type il Kitchen noo	a CANAGE GITTOW TALE > 3,000 CITT	Form/Title							
		CAPOR DIDI DIDI	Compliance Mathed and 440 0/L 142	Type1 hood design exhaust rates do not exceed the								
01 Kitche	nen Name or Item Tag	SABOR PIRI PIRI	Compliance Method per 140.9(b)1B	maximum allowed per §140.9(b)1 as documented below	NRCI-PRC-01-E - Covered Process							
02	03	04	05 06	07 08								
Name or Item Tag	Hood Type <sup>1</sup>	Hood Style	Hood Length (ft) Equipment Duty	Design Hood Exhaust Rate Max Hood Exhaust Rate CFM Allowed CFM	T. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE							
H-1	Type I	Wall-mounted Canopy	(ft) Equipment Suty  8.75 Heavy Duty	1725 2450	Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table Additional Remarks. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification							
	.,,,,,	17			Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html							
FOOTNOTES: Type II hi	noods do not have a max	1000 EXHAUSE OIL TOLE HELL LACKS	1-7		Form/Title Systems/Spaces To							
FOOTNOTES: Type II ho	noods do not have a max	1000 exhaust air rate per 140.s			Verified							
					INDCA DDC 02 E Vitchon Evhauet							
D. LABORATORY AND	D FACTORY EXHAUST				NRCA-PRC-02-F Kitchen Exhaust SABOR PIRI PIRI							
D. LABORATORY AND	D FACTORY EXHAUST				NRCA-PRC-02-F Kitchen Exhaust SABOR PIRI PIRI							
D. LABORATORY AND This section does not a	D FACTORY EXHAUST Apply to this project.	AND FUME HOODS			NRCA-PRC-02-F Kitchen Exhaust SABOR PIRI PIRI							
D. LABORATORY AND This section does not apple. CONTROLLED ENV	ID FACTORY EXHAUST An apply to this project.  VIRONMENT HORTICUL	AND FUME HOODS			NRCA-PRC-02-F Kitchen Exhaust SABOR PIRI PIRI							
D. LABORATORY AND This section does not ap	ID FACTORY EXHAUST An apply to this project.  VIRONMENT HORTICUL	AND FUME HOODS			NRCA-PRC-02-F Kitchen Exhaust  SABOR PIRI PIRI							
D. LABORATORY AND This section does not application P. CONTROLLED ENV This section does not applications	ID FACTORY EXHAUST An apply to this project.  VIRONMENT HORTICULA pply to this project.	AND FUME HOODS			NRCA-PRC-02-F Kitchen Exhaust  SABOR PIRI PIRI							
D. LABORATORY AND This section does not ap C. CONTROLLED ENV This section does not ap	ID FACTORY EXHAUST Apply to this project.  VIRONMENT HORTICULA pply to this project.  INDUSTRIAL FACILITIE	AND FUME HOODS			NRCA-PRC-02-F Kitchen Exhaust  SABOR PIRI PIRI							
D. LABORATORY AND This section does not ap P. CONTROLLED ENV This section does not ap Q. STEAM TRAPS IN	ID FACTORY EXHAUST Apply to this project.  VIRONMENT HORTICULA pply to this project.  INDUSTRIAL FACILITIE	AND FUME HOODS			NRCA-PRC-02-F Kitchen Exhaust   SABOR PIRI PIRI							
O. LABORATORY AND This section does not ap P. CONTROLLED ENV This section does not ap	ID FACTORY EXHAUST Apply to this project.  VIRONMENT HORTICULA pply to this project.  INDUSTRIAL FACILITIE	AND FUME HOODS			NRCA-PRC-02-F Kitchen Exhaust  SABOR PIRI PIRI							
D. LABORATORY AND This section does not ap P. CONTROLLED ENV This section does not ap Q. STEAM TRAPS IN	ID FACTORY EXHAUST Apply to this project.  VIRONMENT HORTICULA pply to this project.  INDUSTRIAL FACILITIE	AND FUME HOODS			NRCA-PRC-02-F Kitchen Exhaust   SABOR PIRI PIRI							
D. LABORATORY AND This section does not ap P. CONTROLLED ENV This section does not ap	ID FACTORY EXHAUST Apply to this project.  VIRONMENT HORTICULA pply to this project.  INDUSTRIAL FACILITIE	AND FUME HOODS	Generated Date/Time:	Documentation Software: Energy Code								
D. LABORATORY AND This section does not application C. CONTROLLED ENV This section does not application C. STEAM TRAPS IN Interpretation does not application does not application does not application.	ID FACTORY EXHAUST Apply to this project.  VIRONMENT HORTICULA pply to this project.  INDUSTRIAL FACILITIE	AND FUME HOODS  TURE	Generated Date/Time: Report Version: 2022.0.000	Documentation Software: Energy Code Compliance ID: 117190-0623-0								

Project Name: SABOR PIRI PIRI TENANT IMPROVEMENT Report Page:	
Date Prepared:	2023
Date Prepared:	2023
H. ENCLOSED PARKING GARAGE EXHAUST	
This section does not apply to this project.	
I. PROCESS BOILER	
This section does not apply to this project.	
J. COMPRESSED AIR SYSTEMS  This section does not apply to this project.	
This section does not apply to this project.	
K. ELEVATOR LIGHTING AND VENTILATION  This section does not apply to this project.	
L. ESCALATORS AND MOVING WALKWAYS SPEED CONTROLS  This section does not apply to this project.	
M. COMPUTER ROOM SYSTEM SUMMARY	
This section does not apply to this project.	
N. COMMERCIAL KITCHEN EXHAUST AND VENTILATION	
This table contains all new and replacement hoods being installed within the scope of the permit application. Table N is used to demo	monstrate compliance with prescr
found in 140.9(b).	
Kitchen Ventilation 140.9(b)2	t need to meet requirements)
Kitchen Ventilation 140.9(b)2	ot need to meet requirements)  Documentation Softw  Compliance I  Report Generated:
Kitchen Ventilation 140.9(b)2  01	Documentation Softw Compliance I
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Kitchen Ventilation 140.9(b)2  O1	Documentation Softw  Compliance I Report Generated:  CALIFORNIA EI  2023  able):  Certificate of Compliance (responsible designified on this Certificate of Compliance confiner applicable compliance documents, world and made available to the enforcement agents.
Existing kitchen hoods not being replaced as part of an addition or alteration (do not requirements	Documentation Softw  Compliance I Report Generated:  CALIFORNIA EI  2023  able):  Certificate of Compliance (responsible designified on this Certificate of Compliance confiner applicable compliance documents, workland made available to the enforcement age provider to the building owner at occupa
Existing kitchen hoods not being replaced as part of an addition or alteration (do not requirements	Documentation Softw  Compliance I Report Generated:  CALIFORNIA EI  2023  able):  Certificate of Compliance (responsible designified on this Certificate of Compliance confiner applicable compliance documents, workland made available to the enforcement age provider to the building owner at occupa

Report Version: 2022.0.000 Schema Version: rev 20220101

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Compliance ID: 117190-0623-0002 Report Generated: 2023-06-27 02:19:47



SABOR PIRI PIRI
TENANT IMPROVEMENT
800 B AVENUE SUITE 804



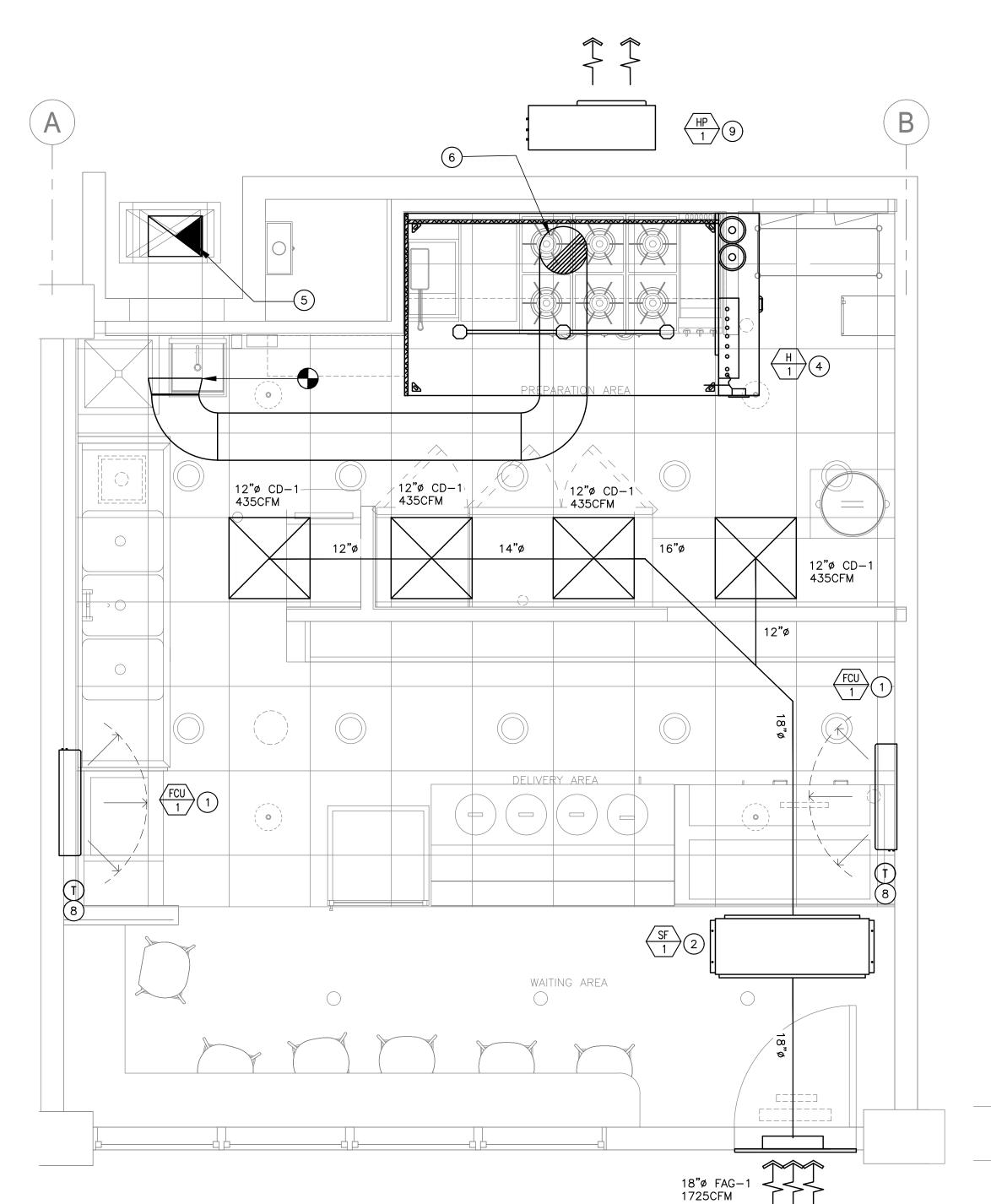


TITLE:

MECHANICAL T24 FORMS

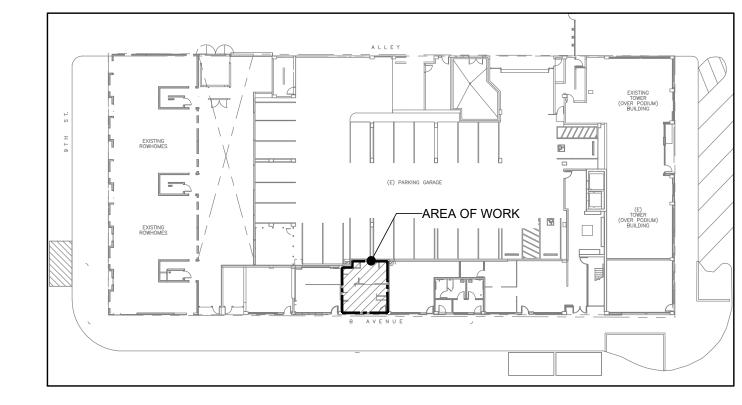
JOB NO:B2306-AA123
DRAWN: CL
CHECKED: CZ
SCALE: NONE
DATE: 06.28.2023

M0.4











### GENERAL NOTES

- A. CONTRACTOR SHALL VERIFY IN THE FIELD FOR EXACT LOCATION OF ALL DUCTING/PIPING AND UTILITIES PRIOR TO START OF WORK. IN THE EVENT OF ANY DISCREPANCIES OR POTENTIAL CONFLICTS, NOTIFY THE ARCHITECT AND ENGINEER IN WRITING PRIOR TO START OF WORK.
- B. ALL DUCTING/PIPING LOCATIONS ARE DIAGRAMMATIC.
  CONTRACTOR SHALL COORDINATE WITH ALL TRADES AND
  OWNER'S REPRESENTATIVE AND VERIFY EXACT ROUTING PRIOR
  TO START OF WORK.
- C. FINAL THERMOSTAT/REMOTE SENSOR SHALL BE COORDINATED WITH THE ARCHITECT AND GENERAL CONTRACTOR FOR APPROVAL PRIOR TO INSTALLATION.
- D. CONTRACTOR SHALL PERFORM AIR BALANCING AS PART OF TESTING AND COMMISSIONING ACTIVITIES OF ALL HVAC SYSTEM AND EQUIPMENT. DURING THE SAID ACTIVITY, ALL SUPPLY AND EXHAUST AIRFLOW RATES SHALL BE VERIFIED IN ACCORDANCE WITH 2022 CMC SECTION 508.10.1.2 THROUGH SECTION 508.10.1.5.
- E. MECHANICAL HOOD SHOULD SHOULD COMPLY WITH CMC TABLE 508.10.1.3 AND FOR MEDIUM DUTY COOKING ONLY.
- F. PROVIDE YOUNG REGULATOR BALANCING DAMPER AS NEEDED FOR THE DIFFUSER THAT IS NOT ACCESSIBLE FOR BALANCING.
- G. CONTRACTOR TO PROVIDE ACCESS PANEL TO ALL MECHANICAL EQUIPMENTS FOR MAINTENANCE IF NOT READILY ACCESSIBLE. COORDINATE WITH ARCHITECT.

### KEY NOTES

- 1) NEW WALL MOUNTED FAN COIL UNIT. SEE SHEET MO.2 FOR UNIT SPECIFICATION.
- 2 NEW INLINE SUPPLY FAN. SEE SHEET MO.2 FOR UNIT SPECIFICATION.
- 3 NEW KITCHEN EXHAUST FAN. SEE SHEET MO.2 FOR UNIT SPECIFICATION.
- (4) NEW TYPE I HOOD. REFER TO SHEETS MO.2 AND M4.1 TO M4.8 FOR THE EQUIPMENT DETAILS AND SPECIFICATIONS. HOOD SHALL BE SECURED IN PLACE TO RESIST THE LATERAL LOADS.
- 5) 16"x12" KITCHEN HOOD EXHAUST DUCT RISER T/A, CONNECT TO KEF-1.
- 6 14"ø EXHAUST DUCT CONNECTION TO NEW TYPE I HOOD.
- 7 FAN DISCHARGE SHALL BE FORTY(40) INCHES ABOVE THE ROOF SURFACES AND SHALL HAVE A MINIMUM OF TEN (10) FOOT CLEARANCE FROM ANY OUTSIDE AIR INTAKE. IF AN EXHAUST FAN SHALL BE EXTENDED BY MEANS OF SHROUD ON ROUND FANS TO MEETS THE THREE (3) FEET VERTICAL CLEARANCE REQUIREMENT.
- 8 FCU THERMOSTAT. COORDINATE WITH ARCHITECT. REFER TO DETAIL #5/M3.1 FOR MOUNTING.
- 9 NEW HEAT PUMP UNIT. SEE SHEET MO.2 FOR UNIT SPECIFICATION.

DESCRIPTION

SABOR PIRI PIRI
ENANT IMPROVEMENT
800 B AVENUE SUITE 804
NATIONAL CITY CA 91950





TITLE:

MECHANICAL FLOOR & ROOF PLAN

JOB NO:B2306-AA123

DRAWN: CL

CHECKED: CZ

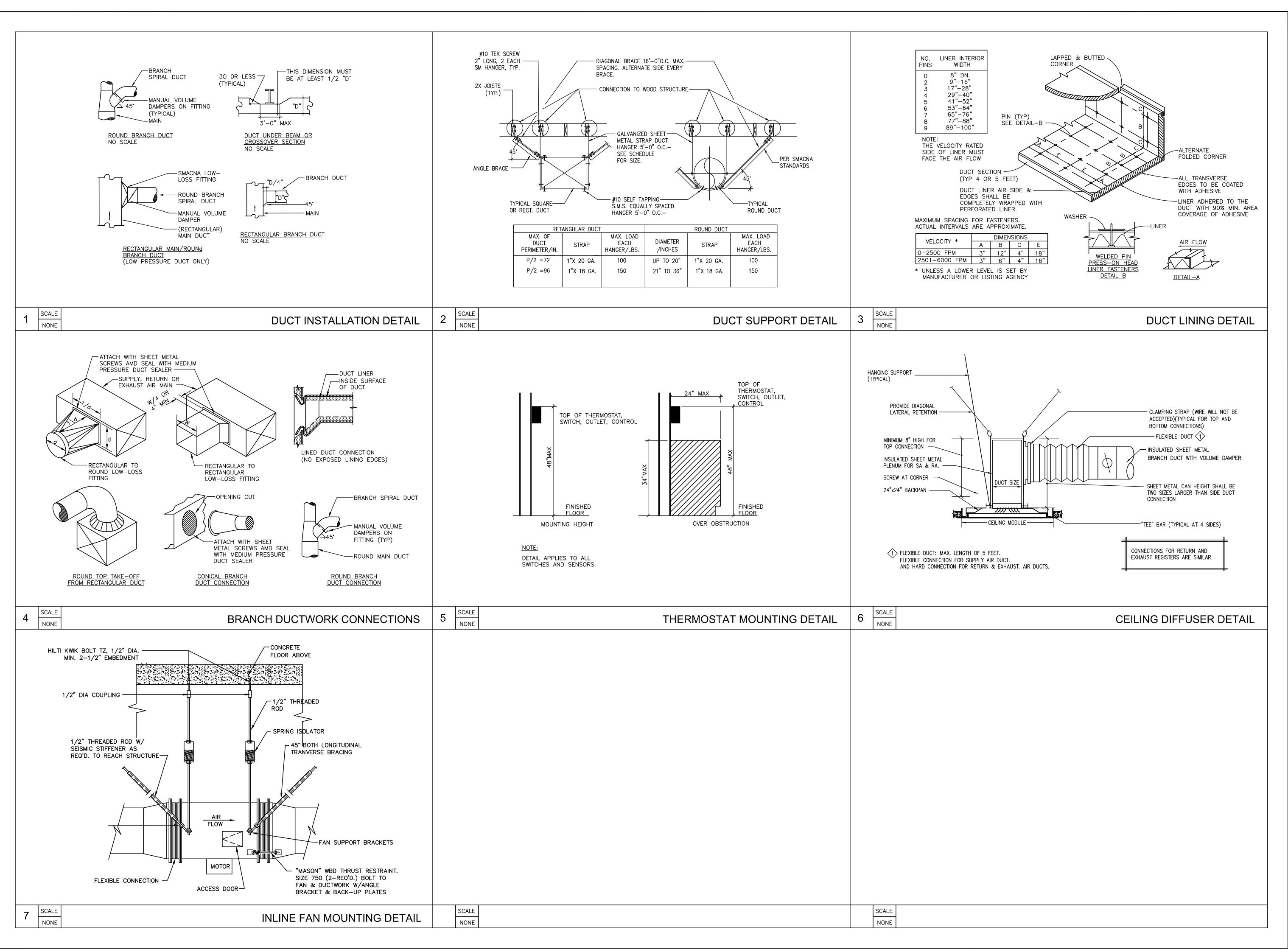
SCALE: AS SHOWN

M2 1

DATE: 06.28.2023

MECHANICAL FLOOR PLAN

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



REV DESCRIPTION DATE

SABOR PIRI PIRI
ENANT IMPROVEMENT
800 B AVENUE SUITE 804
NATIONAL CITY CA 91950



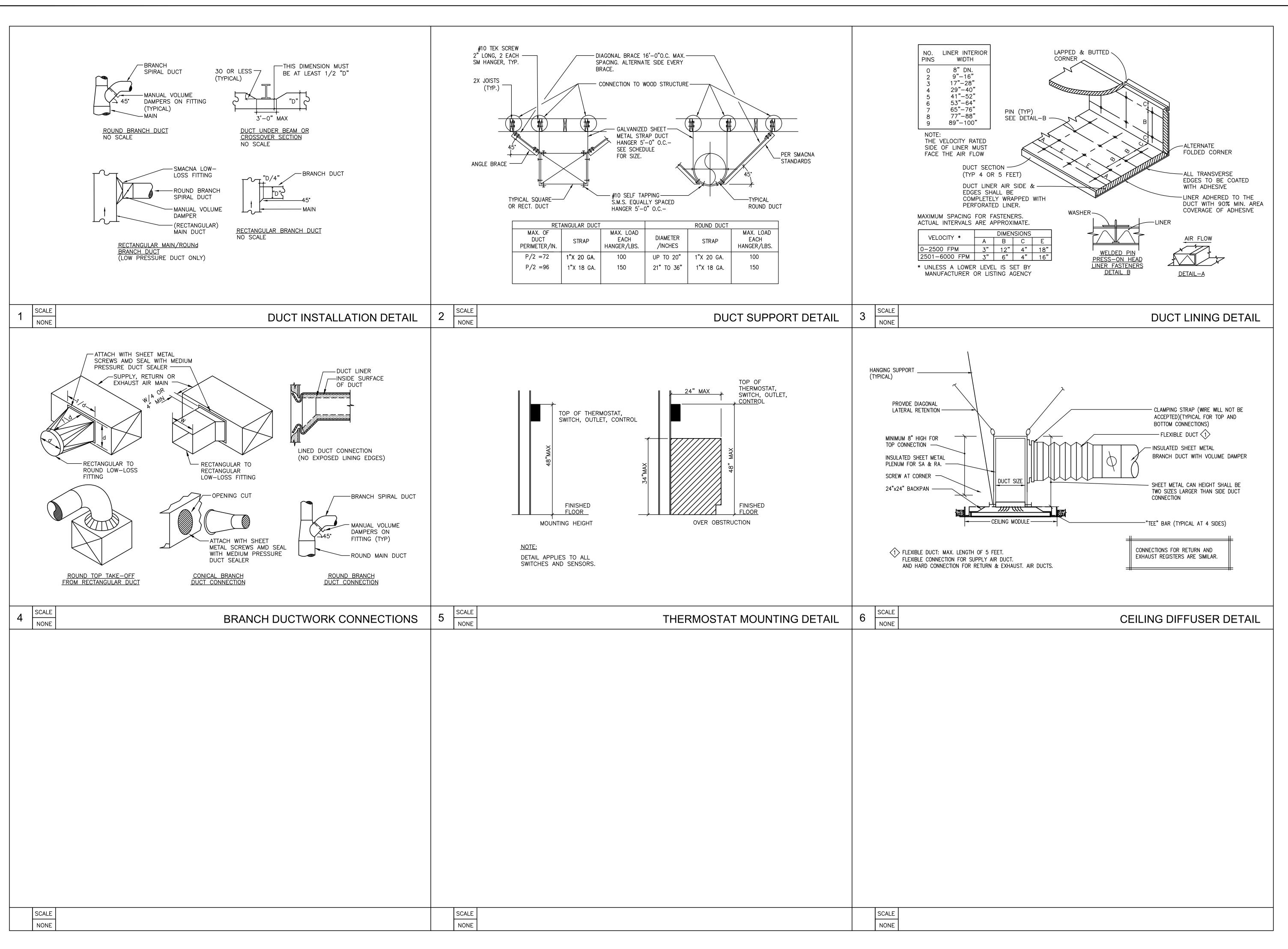


TITLE:

MECHANICAL DETAILS

JOB NO:B2306-AA123
DRAWN: CL
CHECKED: CZ
SCALE: NONE
DATE: 06.28.2023

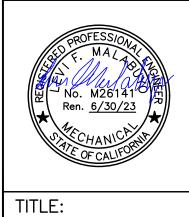
M3.1



DESCRIPTION

SABOR PIRI PIRI
ENANT IMPROVEMENT
800 B AVENUE SUITE 804
NATIONAL CITY CA 91950

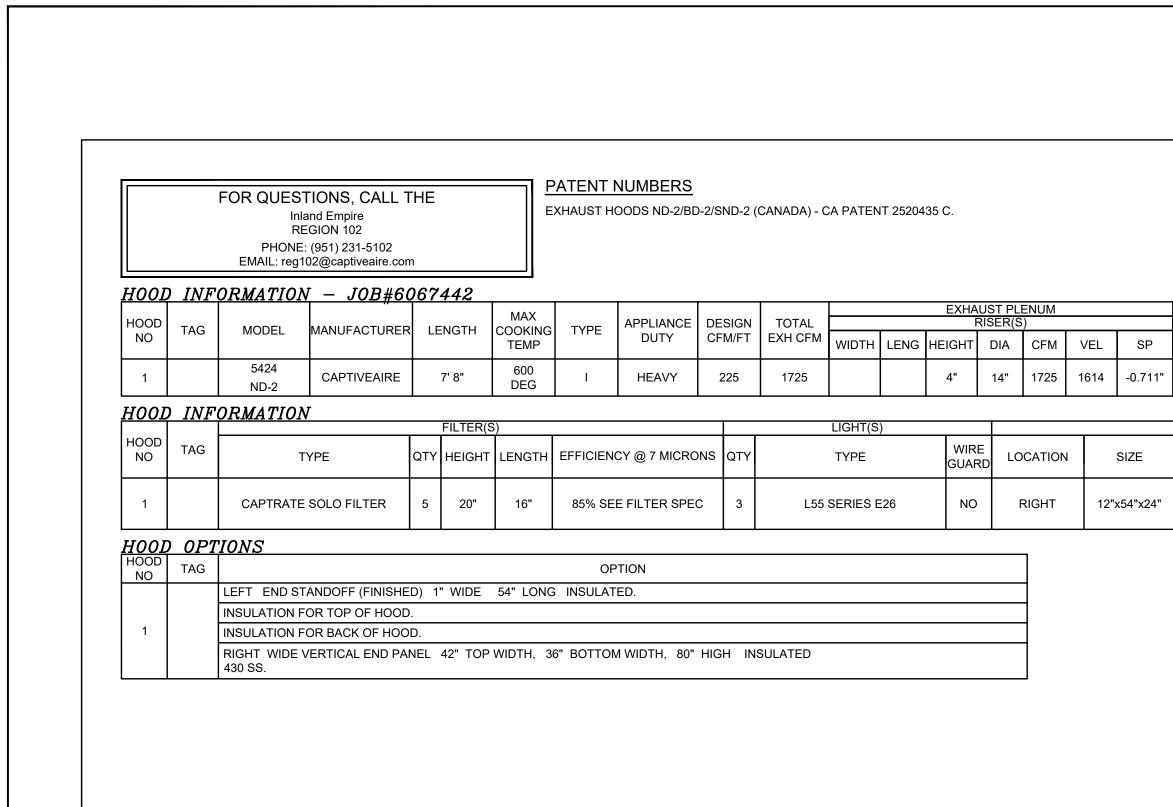




MECHANICAL DETAILS

JOB NO:B2306-AA123
DRAWN: CL
CHECKED: CZ
SCALE: NONE
DATE: 06.28.2023

M3.1



1" LAYER OF INSULATION FACTORY

INSTALLED IN INTERNAL BACK STANDOFF.

MEETS 0 INCH REQUIREMENTS FOR

U.L. LISTED L55 SERIES E26 CANOPY LIGHT FIXTURE - HIGH TEMP ASSEMBLY.

CLEARANCE TO COMBUSTIBLE SURFACES.

7' 8"NOM./7' 8.00"OD.

8'-9.00" OVERALL LENGTH

PRE-WIRED TO LIGHTS

CAT-5 PREWIRED AT FACTORY

### SPECIFICATION: CAPTRATE GREASE-STOP SOLO FILTER

- THE CAPTRATE GREASE-STOP SOLO FILTER IS A SINGLE-STAGE FILTER FEATURING A UNIQUE S-BAFFLE DESIGN IN CONJUNCTION WITH A SLOTTED REAR BAFFLE DESIGN,
- TO DELIVER EXCEPTIONAL FILTRATION EFFICIENCY.
- FILTER IS STAINLESS STEEL CONSTRUCTION, AND SIZED TO FIT INTO STANDARD
- 2-INCH DEEP HOOD CHANNEL(S).

END TO ROW

ALONE | ALONE

ELECTRICAL

MODEL#

SC-310110MA

SWITCHES

QUANTITY

1 LIGHT

1 FAN

YES

UTILITY CABINET(S)

SIZE

4.0/4.0

FIRE SYSTEM

END

CONSTRUCTION

WHERE EXPOSED

TYPE

TANK FS

UTILITY CABINET

TANK FIRE SYSTEM

— BUILDING ALARM

— BUILDING TROUBLE

(TYPICAL CONNECTIONS, REFER TO DETAILED WIRING DIAGRAMS FOR

RESPONSIBILITY AND CONNECTIONS)

- INPUT FOR EXHAUST/SUPPLY FAN

— ELECTRICAL HOOD CONTROL BOX

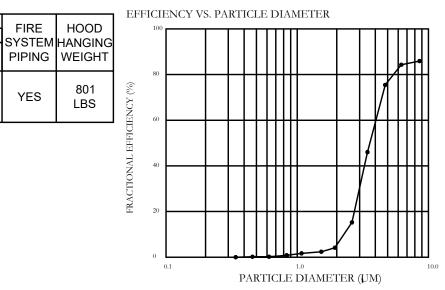
- LIGHT/FAN CONTROL INTERFACE

- 120V 15AMP LIGHT INPUT 120V 15AMP CONTROL INPUT

OUTPUT FOR EXHAUST/SUPPLY FAN

- UNITS SHALL INCLUDE STAINLESS STEEL HANDLES AND A FASTENING DEVICE TO SECURE THE TWO COMPONENTS WHEN ASSEMBLED.
- GREASE EXTRACTION EFFICIENCY PERFORMANCE SHALL REMOVE AT LEAST 75% OF GREASE PARTICLES FIVE MICRONS IN SIZE, AND 85% GREASE PARTICLES SEVEN MICRONS IN SIZE AND LARGER, WITH A CORRESPONDING PRESSURE DROP NOT TO EXCEED 1.0 INCHES OF WATER GAUGE.

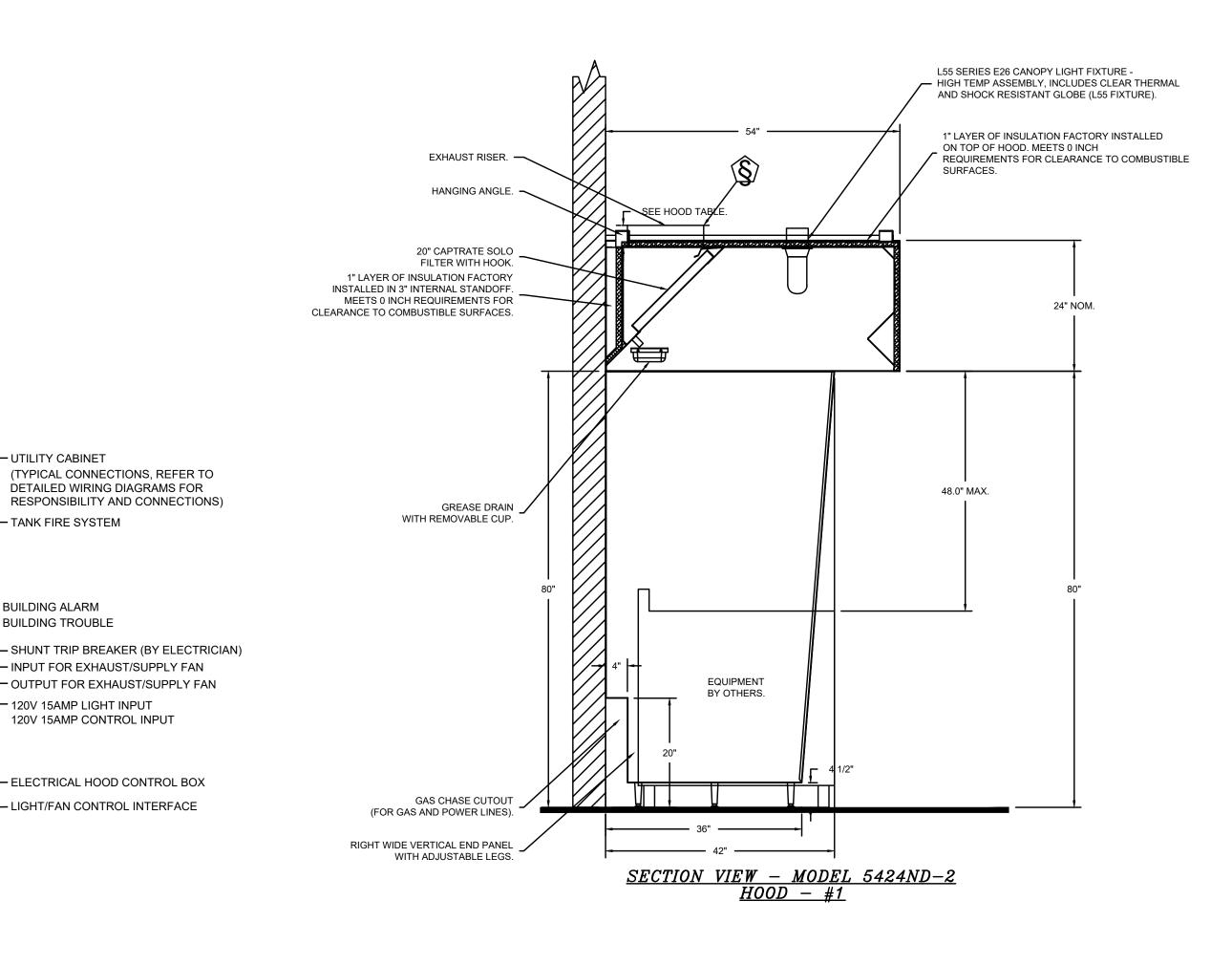
THE CAPTRATE GREASE-STOP SOLO WAS TESTED TO ASTM STANDARD ASTM F2519-05. MANUFACTURER APPROVED FOR USE IN SOLID FUEL APPLICATIONS AS A SPARK ARRESTER.



PRESSURE DROP VS. FLOW RATE FLOW RATE (CFM)

CAPTRATE FILTERS ARE BUILT IN COMPLIANCE WITH:. NFPA #96. NSF STANDARD #2. UL STANDARD #1046. INT. MECH. CODE (IMC). ULC-S649.







**REVISIONS** 

91950 National NATIONAL Sabor

**DATE:** 6/20/2023

DWG.#:

6067442

SCALE: 3/4" = 1'-0"

**MASTER DRAWING** 

SHEET NO.

DRAWN BY: MR-102

TITLE:

**MECHANICAL** HOOD **DETAILS** 

> JOB NO:B2306-AA123 DRAWN:

> > CHECKED: SCALE: NONE DATE: 06.28.2023

28/06/2023 3:07:00 am

1" LAYER OF INSULATION
FACTORY INSTALLED IN
1.00" END STANDOFF MEETS —

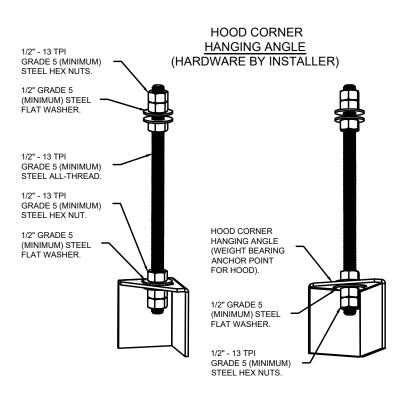
0" REQUIREMENTS CLEARANCE TO COMBUSTIBLE SURFACES.

DESCRIPTION

SABOR PIRI PIRI ENANT IMPROVEMEN

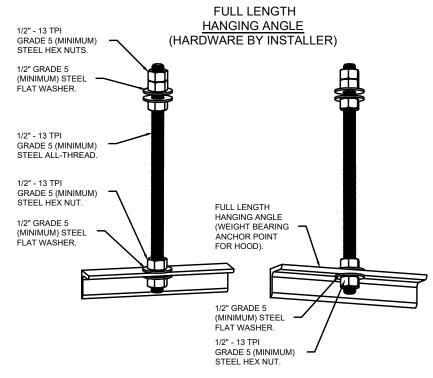
SUITE CA 91





### ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD. SANDWICH HANGING ANGLES AND CEILING (MINIMUM) ALL-THREAD. SANDWICH HANGING ANGLES AND CEILING DOUBLED HEX NUT CONFIGURATION BENEATH HOOD HANGING ANGLES AND ABOVE CEILING ANCHORS. MAINTAIN 1/4" OF EXPOSED SINGLE HEX NUT BENEATH HANGING ANGLE IS ACCEPTABLE FOR THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FULL LENGTH HANGING ANGLES. MAINTAIN 1/4" OF EXPOSED FT-LBS.



### ASSEMBLY INSTRUCTIONS

ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION ABOVE CEILING ANCHORS. THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.



National City rev.3 91950 Sabor Piri Piri -NATIONAL

**DATE:** 6/20/2023 DWG.#: 6067442

DRAWN BY: MR-102

**SCALE:** 3/4" = 1'-0"

**MASTER DRAWING** 

SHEET NO.

**REVISIONS** DESCRIPTION DATE:

ENGINEERING CONSULTANTS INC.

SABOR PIRI PIRI ENANT IMPROVEMENT

SUITE 804 CA 91950

B AVENUE

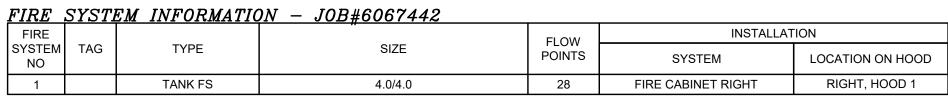
DESCRIPTION



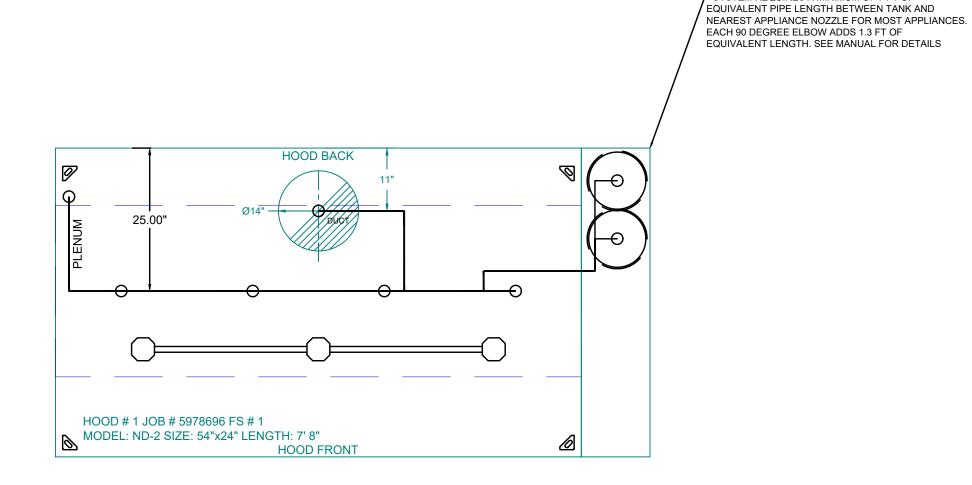
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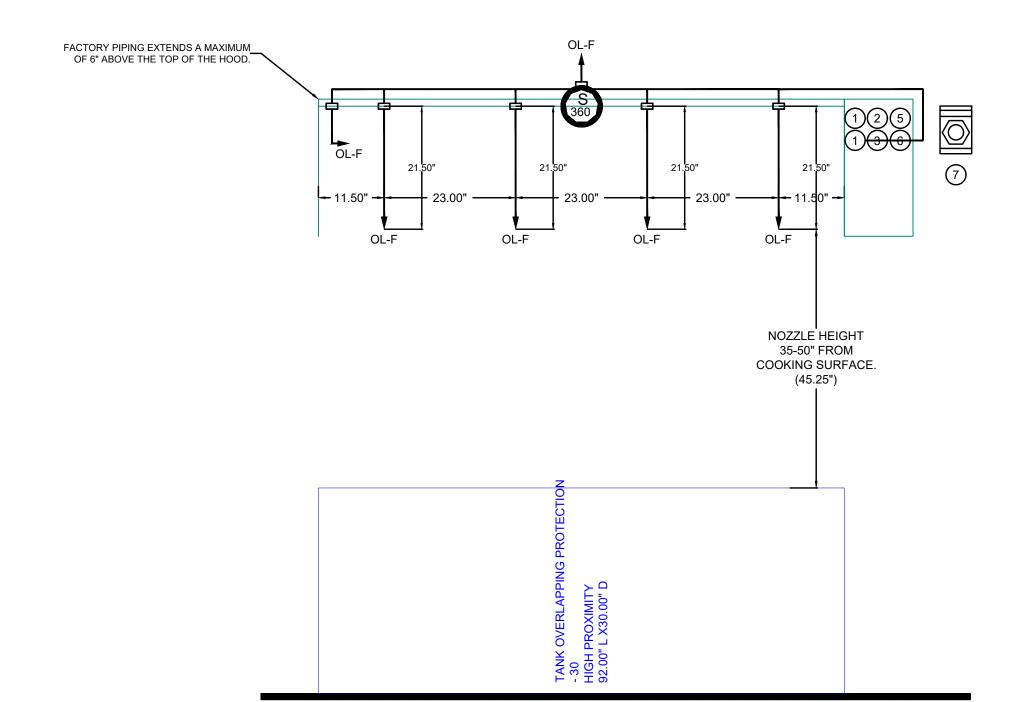
MECHANICAL HOOD **DETAILS** 

JOB NO:B2306-AA123 DRAWN: CHECKED: SCALE: DATE: 06.28.2023



GAS VAI	VE(S	)		
FIRE SYSTEM NO	TAG	TYPE	SIZE	SUPPLIED BY
1		SC ELECTRICAL		CAPTIVEAIRE SYSTEMS





/- SYSTEM REQUIRES A MINIMUM OF 7 FT OF

- FIELD PIPE DROPS AS SHOWN

PIPING, ELBOWS, TEES, AND NOZZLES SUPPLIED BY CAS. - FIELD INSTALLED DROP: FACTORY WILL PROVIDE QTY 2 60IN LONG PIECES OF CHROME

PLATED PIPING SHIPPED LOOSE TO BE FIELD-INSTALLED.

- SHIP LOOSE DROP: FACTORY WILL PROVIDE THE EXACT CHROME PIPE LENGTH NEEDED SHIPPED LOOSE TO BE FIELD-INSTALLED.

- RELOCATE NOZZLES IF FLOW PATTERN IS BLOCKED BY SHELVING, SALAMANDERS, ETC.

- OVERLAPPING COVERAGE SHALL NOT BE USED ON ANY APPLIANCE WITH AN OBSTRUCTION.

- IF APPLICABLE, EXTENDED PRE-PIPED DROPS ARE SHIPPED LOOSE.

- FACTORY PIPING EXTENDS A MAXIMUM OF 6" ABOVE THE TOP OF THE HOOD.

- APPLIANCE DIMENSIONS LISTED REPRESENT THE COOKING SURFACE SIZE, NOT THE OVERALL APPLIANCE SIZE.

- THIS FIRE SYSTEM COMPLIES WITH U.L. 300 REQUIREMENTS.

- OL-F NOZZLE PART NUMBER REPLACES 3070-3/8H-10-SS

JOB #: 5978696. JOB NAME: SABOR PIRI PIRI - NATIONAL CITY REV.1.

SYSTEM SIZE: TANK-SP-2 TOTAL FP REQUIRED: 28.

HOOD # 1 7' 8.00" LONG x 54" WIDE x 24" HIGH. RISER # 1 SIZE: 14" DIA.

HOOD # 1 METAL BLOW-OFF CAPS INCLUDED.

- HEAVY-DUTY APPLIANCES (RATED 600°F) WILL REQUIRE AN ADDITIONAL DOWNSTREAM FIRESTAT IN THE EVENT THAT THE DUCTWORK CONTAINS ANY HORIZONTAL RUNS OVER 25 FT IN LENGTH.

- MEDIUM TO LIGHT-DUTY APPLIANCES (RATED 450°F) WILL NOT REQUIRE ANY ADDITIONAL DOWNSTREAM DETECTION.

<u>LEGEND - FIRE CABINET TANK SYSTEM</u>

4 GALLON TANK.

PRIMARY ACTUATOR RELEASE.

SECONDARY ACTUATOR RELEASE.

PRESSURE SUPERVISION SWITCH.

PRIMARY HOSE ASSEMBLY.

SECONDARY HOSE ASSEMBLY. REMOTE MANUAL ACTUATION DEVICE.

**REVISIONS** 

DESCRIPTION

City 91950 National Piri Piri Sabor **DATE:** 6/20/2023

DWG.#: 6067442

TITLE: MECHANICAL HOOD **DETAILS** 

SABOR PIRI PIRI ENANT IMPROVEMI

JOB NO:B2306-AA123 DRAWN: CHECKED: SCALE: DATE: 06.28.2023

DRAWN BY: MR-102 SCALE: 3/4" = 1'-0" **MASTER DRAWING** SHEET NO.

<u>EXF</u>	XHAUST FAN INFORMATION - JOB#6067442															
FAN UNI <sup>-</sup> NO		QTY	FAN UNIT MODEL#	MANUFACTURER	CFM	ESP	RPM	MOTOR ENCL	HP	ВНР	PHASE	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	SONES
1		1	DU180HFA	CAPTIVEAIRE	1725	1.000	966	TEFC,PREMIUM	1.000	0.6060	3	208	3.9	398 FPM	153	9.5

FAN OPTIONS

UNIT NO	TAG	QTY	DESCRIPTION
	GREASE BOX		
1		1	EXHAUST FAN HEAT BAFFLE
		1	2 YEAR PARTS WARRANTY

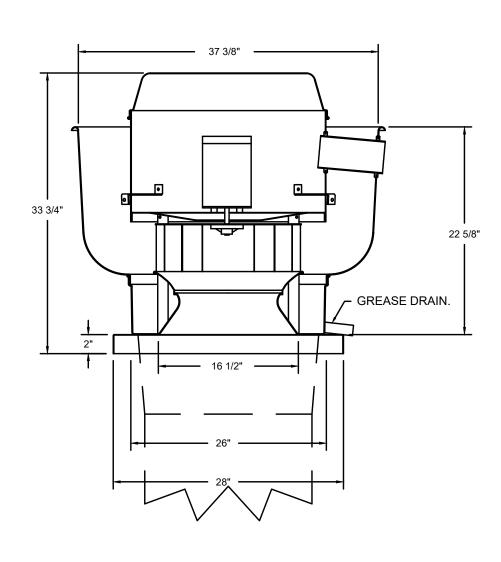
### FAN ACCESSORIES

FAN UNIT	TAG		EXHAUST		SUPPLY					
NO	IAG	GREASE CUP	GRAVITY DAMPER	WALL MOUNT	SIDE DISCHARGE	GRAVITY DAMPER	MOTORIZED DAMPER	WALL MOUN		
1		YES								

CURB ASSEMBLIES

NO	ON FAN	WEIGHT	ITEM	SIZE
1	# 1	41 LBS	CURB	26.500"W X 26.500"L X 20.000"H VENTED HINGED.

### FAN #1 DU180HFA - EXHAUST FAN



### FEATURES:

- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS). - ROOF MOUNTED FANS. - RESTAURANT MODEL. - UL705 AND UL762 AND ULC-S645 - VARIABLE SPEED CONTROL. - INTERNAL WIRING. - THERMAL OVERLOAD PROTECTION (SINGLE PHASE). - HIGH HEAT OPERATION 300°F (149°C).

- NEMA 3R SAFETY DISCONNECT SWITCH. EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C)

- GREASE CLASSIFICATION TESTING.

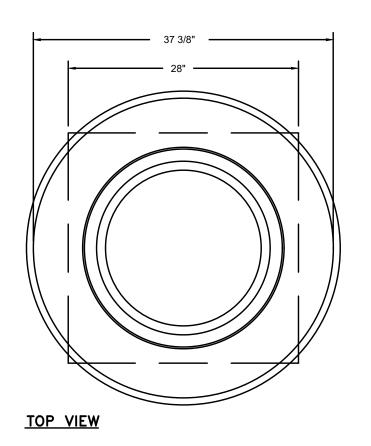
UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION. ABNORMAL FLARE-UP TEST EXHAUST FAN MUST OPERATE CONTINUOUSLY

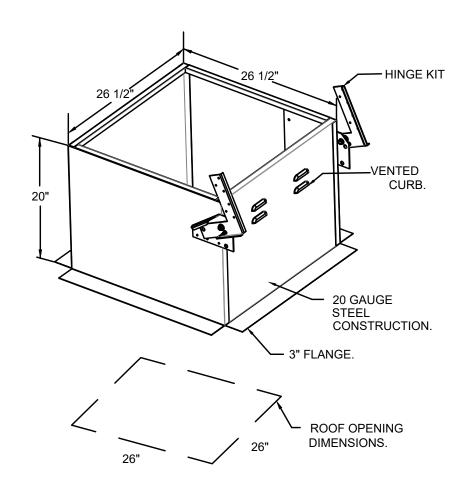
WHILE EXHAUSTING BURNING GREASE VAPORS

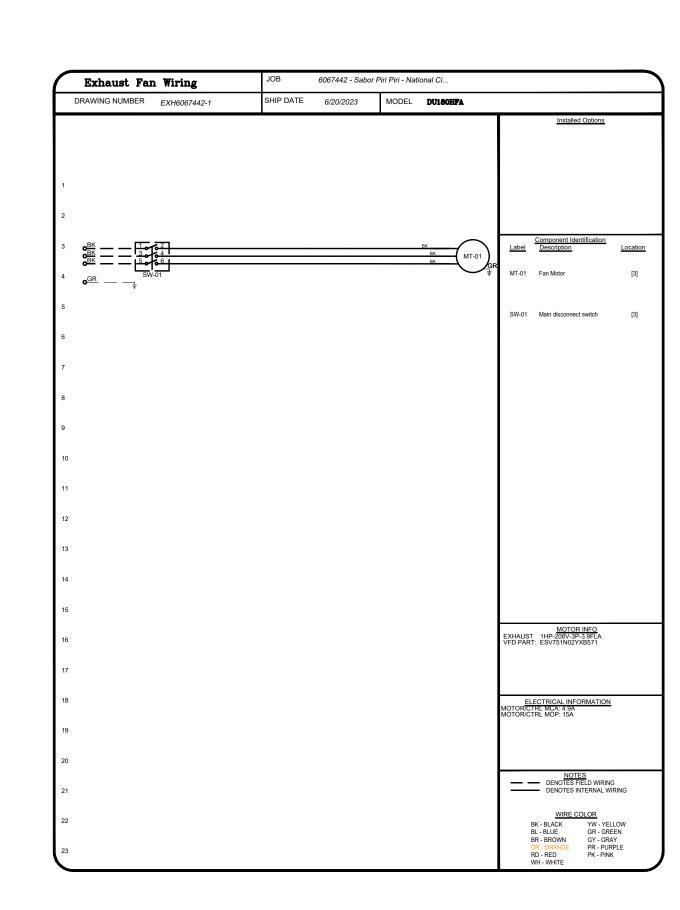
AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

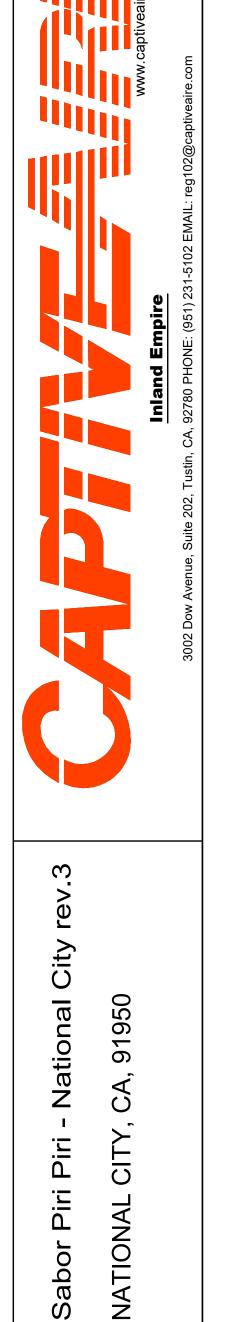
<u>OPTIONS</u>

- GREASE BOX. - EXHAUST FAN HEAT BAFFLE. - 2 YEAR PARTS WARRANTY.









DWG.#:

6067442

SCALE:

3/4" = 1'-0"

**MASTER DRAWING** 

SHEET NO.

DRAWN BY: MR-102



**REVISIONS** 

ENGINEERING

CONSULTANTS INC. NATIONAL TITLE: **DATE:** 6/20/2023

MECHANICAL HOOD **DETAILS** 

SABOR PIRI PIRI ENANT IMPROVEMEN

DESCRIPTION

JOB NO:B2306-AA123 DRAWN: CHECKED: SCALE:

DATE: 06.28.2023

© GREASE DUCT & CHIMNEY SPECIFICATIONS:

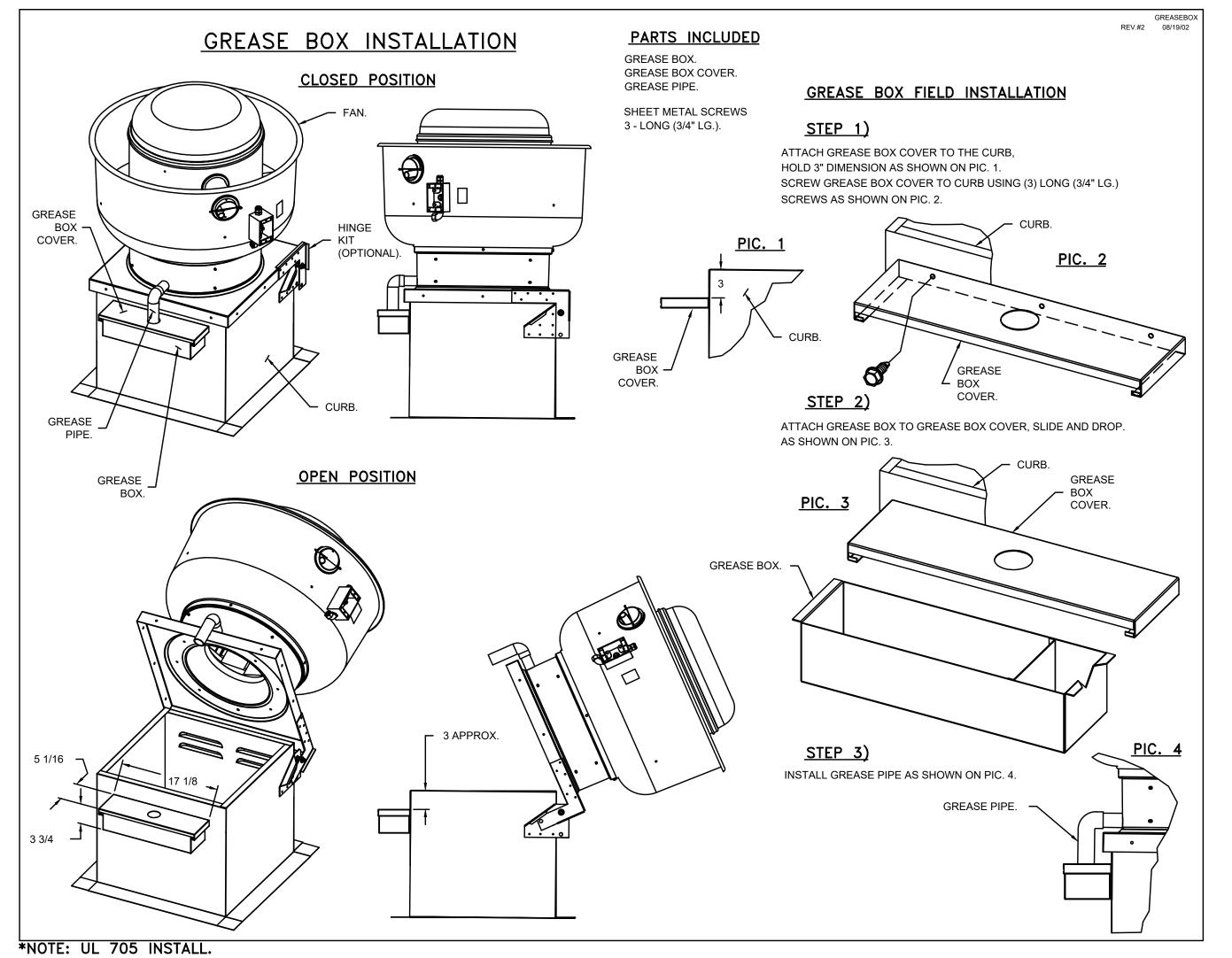
PROVIDE GREASE DUCT EQUAL TO CAPTIVEAIRE SYSTEMS MODEL "DW" ROUND 20 GAUGE 430 STAINLESS STEEL DUCTWORK. MODEL "DW" IS LISTED TO UL-1978 AND IS INSTALLED USING "V" CLAMP LOCKING CONNECTIONS SEALED WITH 3M FIRE BARRIER 2000 PLUS. MODEL "DW" DOES NOT REQUIRE WELDING PROVIDING IT HAS BEEN INSTALLED PER THE MANUFACTURES INSTALLATION GUIDE.

PROVIDE RATED ACCESS DOORS AT EVERY CHANGE IN DIRECTION AND EVERY 12' ON CENTER. PER MANUFACTURES LISTING MODEL "DW" HORIZONTAL RUNS LESS THAN 75 FT. CAN BE SLOPED 1/16" PER 12", HORIZONTAL RUNS MORE THAN 75 FT. CAN BE SLOPED 3/16" PER 12".

DUCT SHOULD BE SLOPED AS MUCH AS POSSIBLE TO REDUCE THE CHANCE OF GREASE ACCUMULATION IN HORIZONTAL RUNS.

IF THE DUCT OR CHIMNEY IS WITHIN 18 INCHES OF COMBUSTIBLE MATERIAL, PROVIDE UL-2221 OR UL-103 HT LISTED DOUBLE WALL GREASE DUCT OR DOUBLE WALL CHIMNEY EQUAL TO CAPTIVEAIRE SYSTEMS MODEL "DW- 2R, 2R TYPE HT, 3R, OR 3Z" ROUND 20 GAUGE 430 STAINLESS INNER DUCT INSULATED WITH A 24 GAUGE 430 STAINLESS OUTER SHELL.

## CUSTOMER APPROVAL TO MANUFACTURE: APPROVED AS NOTED APPROVED WITH NO EXCEPTION TAKEN REVISE AND RESUBMIT SIGNATURE YOUR TITLE DATE





**REVISIONS** 

Sabor Piri Piri - National City rev.3
NATIONAL CITY, CA, 91950

**DATE:** 6/20/2023 **DWG.#:**6067442

DRAWN MR-102
SCALE:

3/4" = 1'-0"

MASTER DRAWING

SHEET NO.

REV DESCRIPTION DAT

SABOR PIRI PIRI
ENANT IMPROVEMENT
800 B AVENUE SUITE 804
NATIONAL CITY CA 91950





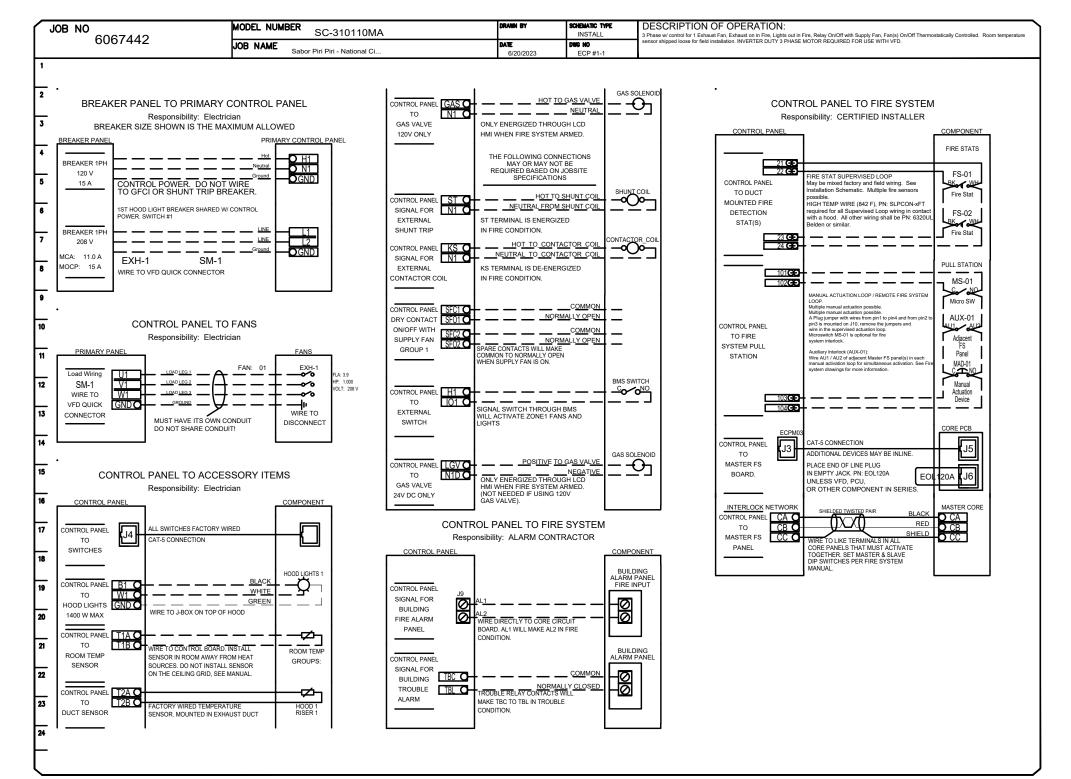
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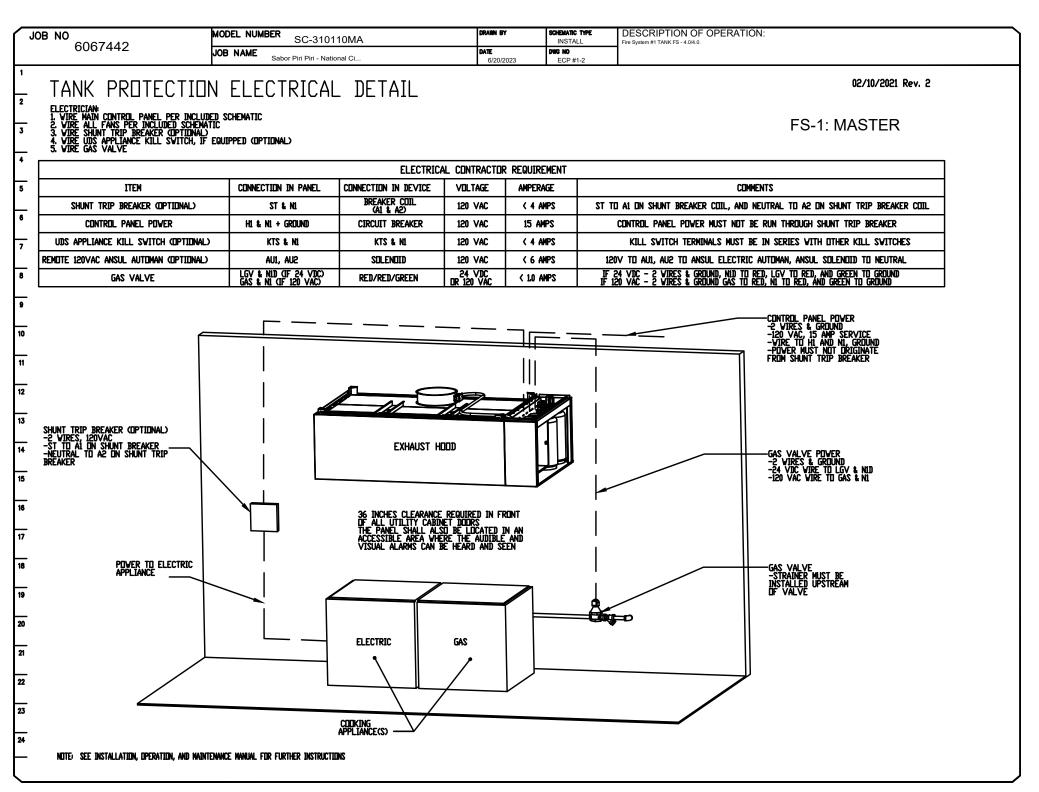
MECHANICAL HOOD DETAILS

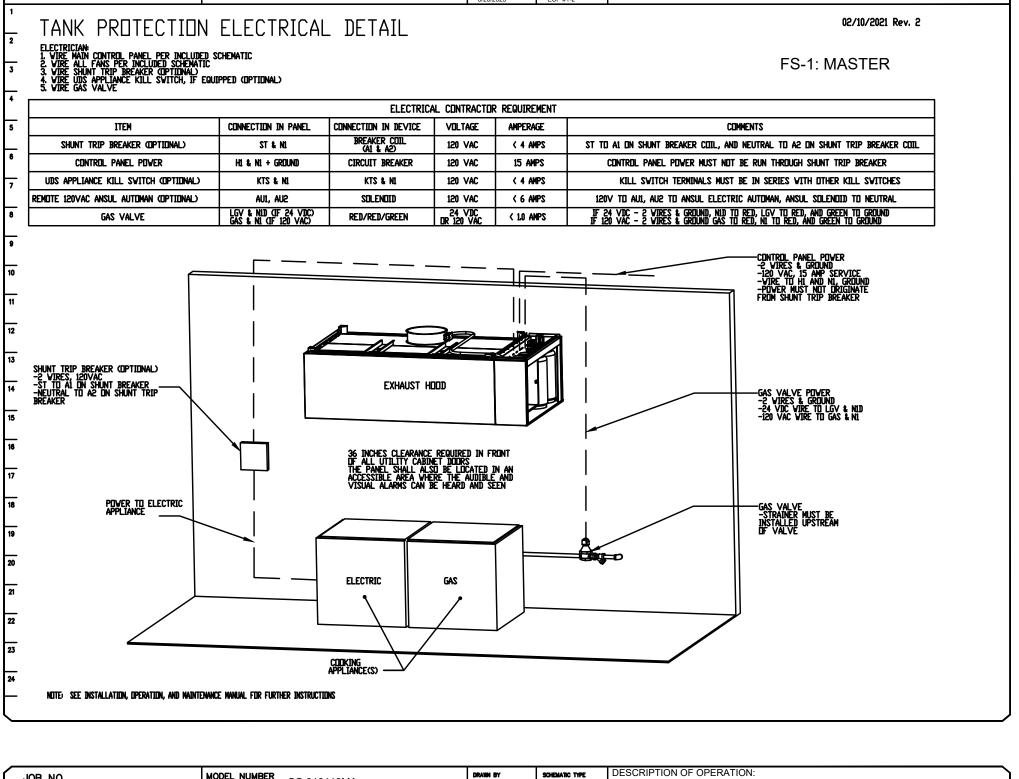
JOB NO:B2306-AA123
DRAWN: CL
CHECKED: CZ
SCALE: NONE
DATE: 06.28.2023

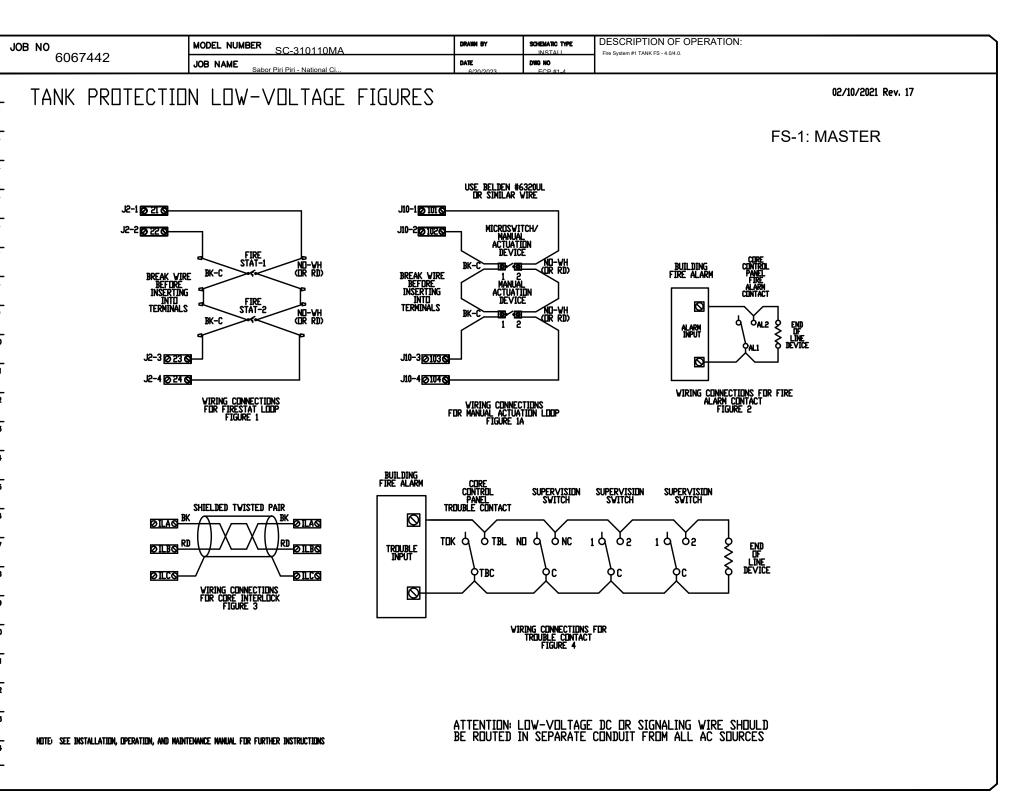
M4.5

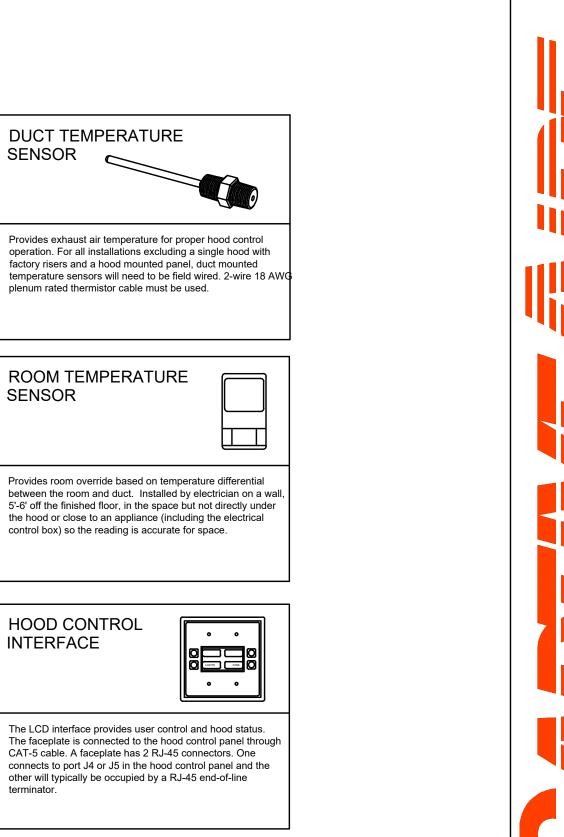














**REVISIONS** DESCRIPTION DATE:

ENGINEERING CONSULTANTS INC.

3/4" = 1'-0" **MASTER DRAWING** 

SHEET NO.

City

Piri

Piri

Sabor

950

0

NATIONAL

**DATE:** 6/20/2023

DWG.#:

6067442

SCALE:

DRAWN BY: MR-102

TITLE:

SUITE CA 91

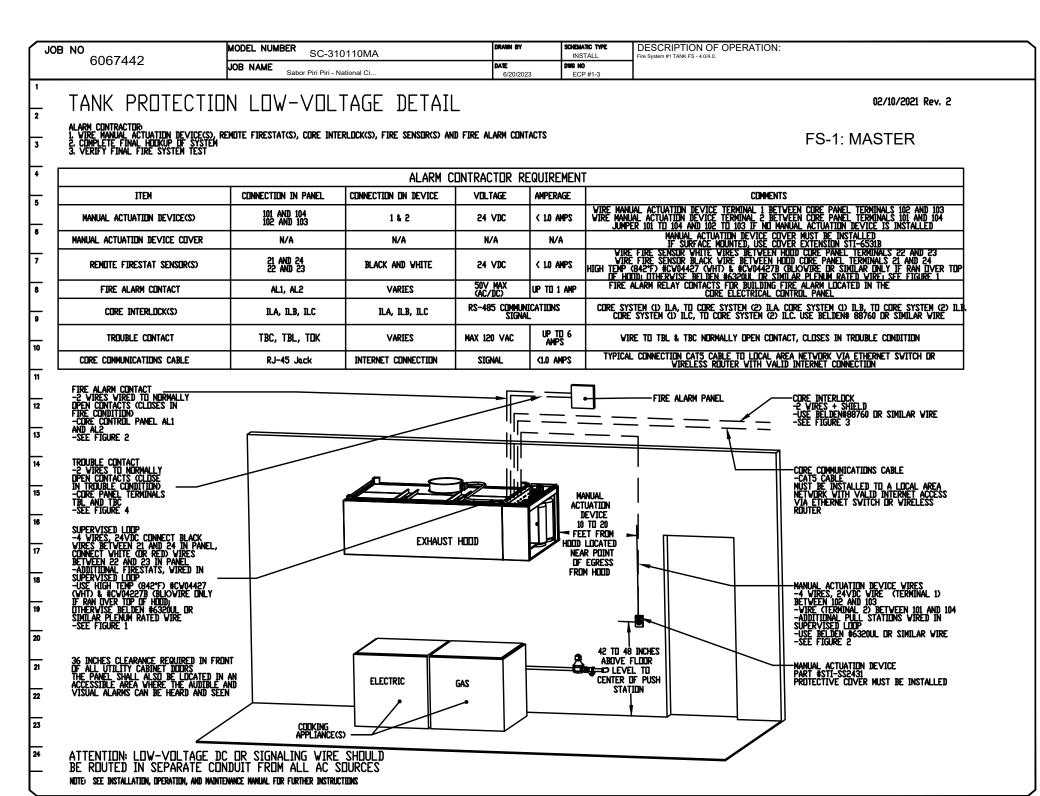
B AVENUE IONAL CITY

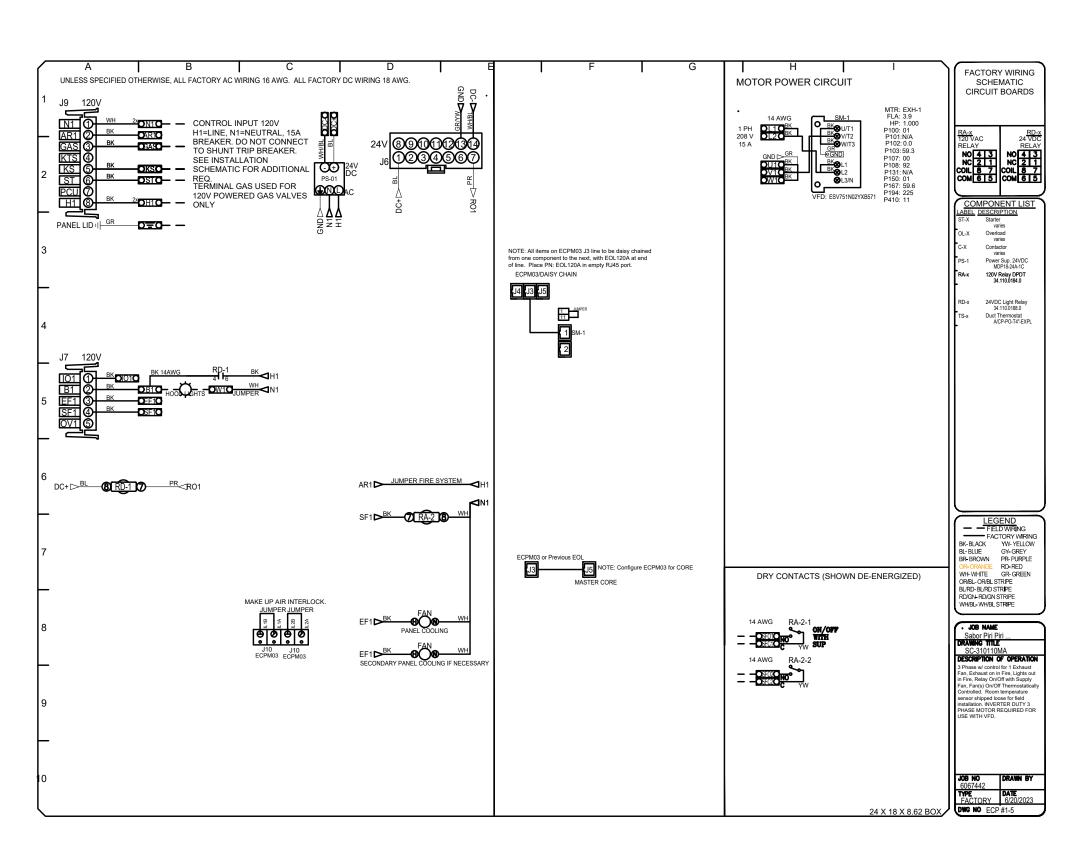
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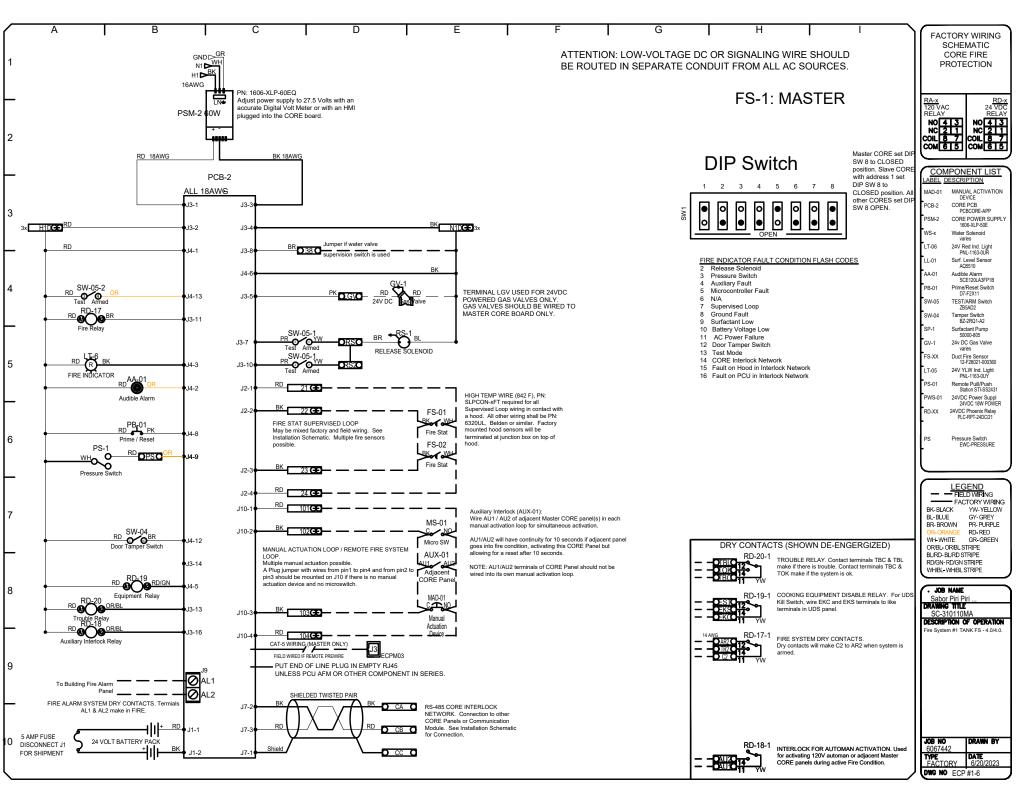
**MECHANICAL** HOOD **DETAILS** 

JOB NO:B2306-AA123 DRAWN: CHECKED: SCALE: DATE: 06.28.2023

M4.6









National City

Piri

Sabor Piri

91950

NATIONAL

**DATE:** 6/20/2023

DWG.#:

**SCALE:** 3/4" = 1'-0"

MASTER DRAWING

SHEET NO.

6067442

DRAWN BY: MR-102

SABOR PIRI PIRI ENANT IMPROVEMENT

DESCRIPTION



TITLE:

MECHANICAL HOOD **DETAILS** 

JOB NO:B2306-AA123 DRAWN: CHECKED: SCALE:

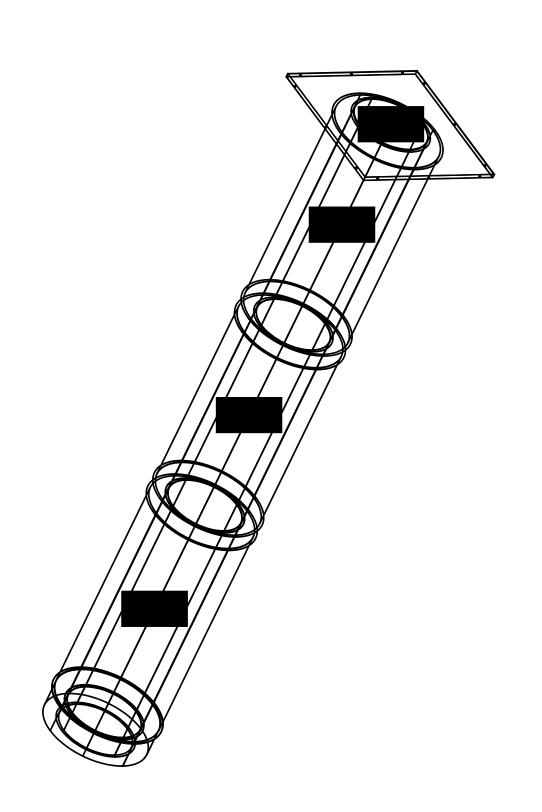
DATE: 06.28.2023

### IICTWORK #1 PARTS - JOB#6067442 DOUBLE WALL

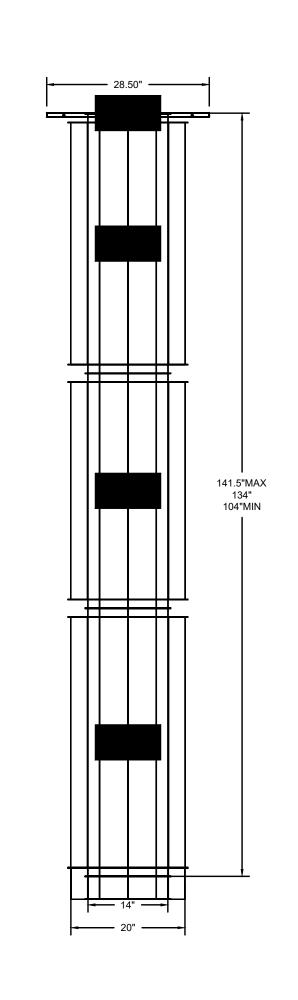
						••	PARIS	- JUB#6	067	7442 DOUBLE WALL
TAG	PART#	CFM	GPM	ZON E	COVEREDBY	SP	WEIGHT	VELOCITY	QTY	DESCRIPTION
P1	DW1447DWLT-3Z-S	1725				-0.018	76.70	1613.64	1	DOUBLE WALL DUCT - 14" INNER DUCT, 47" LONG - 3 LAYERS ZERO CLEARANCE - 20" STAINLESS STEEL OUTER SHELL.
P2	DW1447DWAJD-3Z-S	1725				-0.016	109.38	1613.64	1	DOUBLE WALL ADJUSTABLE DUCT - 14" INNER DUCT - 3 LAYERS ZERO CLEARANCE - 20" STAINLESS STEEL OUTER SHELL. MIN LENGTH = 11" / MAX LENGTH = 48.5" / ADJUSTMENT = 30.5" / ADJUSTABLE SECTION MAY NEED TO BE CUT. INCLUDES SINGLE AND DOUBLE WALL "V" CLAMPS.
P3 ASSEMBLED W/P4	DW144550DWLTTP-3Z-S	1725				-0.018	74.89	1613.64	1	DOUBLE WALL DUCT - 14" INNER DUCT, 45.5" LONG - 3 LAYERS ZERO CLEARANCE - 20" STAINLESS STEEL OUTER SHELL - USED WITH TRANSITION PLATE.
P4 ASSEMBLED W/P3	DW2814TPDBEX	1725					9.00	1613.64	1	DUCT TO CURB TRANSITION 3/4" DOWN TURN, 28" CURB TO 14" DUCT, 16 GA ALUMINIZED. TRANSITION PLATE OD IS 28.5" DESIGNED FOR USE WITH EXHAUST FAN. NON-STANDARD PART.
SYSTEM AT P4						-0.763	0.00			
	3M-2000PLUS						0.80		1	DUCT - 3M FIRE BARRIER 2000 PLUS SILICONE - USED AS SEALANT TO SEAL DUCT JOINTS.
TOTAL WEIGHT							270.77			

DO NOT LEAK TEST USING SMOKE BOMBS CONTAINING CHLORINES/CHLORIDES. CONSULT WITH CAPTIVEAIRE FOR PROPER LEAK TESTING METHODS.

### DUCTWORK #1 SE VIEW



### DUCTWORK #1 FRONT VIEW





REVISIONS
DESCRIPTION DATE:

Sabor Piri - National City rev.3
NATIONAL CITY, CA, 91950

TITLE:

**DWG.#:** 6067442

DRAWN MR-102

SCALE:
3/4" = 1'-0"

MASTER DRAWING

SHEET NO.

SABOR PIKI PIKI
ENANT IMPROVEMENT
800 B AVENUE SUITE 804
NATIONAL CITY CA 91950





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MECHANICAL HOOD DETAILS

JOB NO:B2306-AA123
DRAWN: CL
CHECKED: CZ
SCALE: NONE
DATE: 06.28.2023

M4.8

### PLUMBING GENERAL NOTES

- THE ARCHITECTURAL DESIGN DRAWINGS SHALL INDICATE THE EXACT LOCATIONS AND MOUNTING HEIGHTS OF ALL PLUMBING FIXTURES.
- 2. THE ARCHITECTURAL DESIGN DRAWINGS SHALL INDICATE ALL ACCESSIBLE FIXTURE LOCATIONS AND MOUNTING HEIGHTS.
- 3. HOT WATER SUPPLY AND DRAIN PIPING AT LAVATORIES AND SINKS SHALL BE INSULATED OR OTHERWISE COVERED. ALL WATER CLOSET FLUSHING LEVERS SHALL BE TO THE WIDE SIDE OF THE STALL.
- 4. TRAPS FOR ALL LAVATORIES AND SINKS SHALL TRAP STRAIGHT BACK TO WALL WITH ALL REQUIRED OFFSETS HAPPENING WITHIN THE WALL.
- 5. ALL PLUMBING WORK SHALL BE INSTALLED TO AVOID INTERFERENCE WITH ELECTRICAL AND MECHANICAL EQUIPMENT AND STRUCTURAL FRAMING.
- ALL CLEANOUTS SHALL BE INSTALLED WHERE EASILY ACCESSIBLE. THE CONTRACTOR SHALL COORDINATE ALL CLEANOUTS LOCATIONS WITH ALL EQUIPMENT, CABINETS AND OTHER OBSTRUCTION PRIOR TO ANY INSTALLATION. CLEANOUTS MUST BE EXTENDED
- 7. ALL PLUMBING FIXTURE VENTS SHALL TERMINATE A MINIMUM OF 12 INCHES FROM ANY VERTICAL SURFACE AND 10 FEET FROM ANY OUTSIDE AIR INTAKES.

TO FLUSH WITH FINISHED WALL.

- 8. ALL VALVES, UNIONS, ETC. TO BE SAME SIZE AS PIPE UNLESS OTHERWISE INDICATED ON PLANS.
- 9. UNIONS SHALL BE PROVIDED AND INSTALLED AFTER EACH VALVE AND PRIOR TO ALL EQUIPMENT CONNECTIONS.
- 10. ALL WORK AND MATERIAL SHALL BE IN COMPLIANCE WITH AND PERFORMED AND INSTALLED IN CONFORMANCE WITH THE FOLLOWING CODES AS ADOPTED AND AMENDED BY THE INSPECTING AUTHORITY. NOTHING IN THESE DRAWINGS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES OR OTHERS APPLICABLE TO THIS PROJECT:

BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.

2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R. 2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R. 2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 C.C.R. 2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R. 2022 CALIFORNIA ENERGY CODE, PART 6, TITLE 24 C.C.R. 2022 CALIFORNIA ELEVATOR SAFETY CONSTRUCTION CODE, PART 7, TITLE 24 C.C.R. 2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 C.C.R., 2022 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R.

2022 TITLE 19, CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

2022 NFPA 13 - AUTOMATIC SPRINKLER SYSTEMS

- 11. BEFORE FABRICATION OR INSTALLATION THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT AND EQUIPMENT PROVIDED UNDER OTHER SECTIONS OF SPECIFICATIONS. ROUGH-IN LOCATIONS AND REQUIREMENTS SHALL BE COORDINATED IN THE FIELD.
- 12. ALL SEWER AND VENT PIPING SHALL A MINIMUM 1/4" PER FOOT (2%) SLOPE PER CPC SEC. 708.
- 13. ALL VALVES. TRAP PRIMERS. WATER HAMMER ARRESTERS OR OTHER EQUIPMENT LOCATED IN WALLS OR ABOVE NON-ACCESSIBLE CEILINGS SHALL BE INSTALLED BEHIND AN ACCESS PANEL. ALL PIPING & DEVICES SHALL BE INSTALLED ABOVE CEILING, WITHIN WALLS, BELOW FLOORS, OR OTHERWISE CONCEALED. EXCEPT PIPING AND DEVICES INSTALLED IN MECHANICAL ROOMS AND OTHER UNFINISHED SPACES.
- 14. ALL PLUMBING FIXTURES AND EQUIPMENT SHALL BE CERTIFIED BY THE CALIFORNIA STATE ENERGY COMMISSION TO COMPLY WITH EFFICIENCY STANDARDS PER SECTION 110 OF THE TITLE-24 REGULATIONS.
- 15. ALL HOT WATER SUPPLY & RETURN PIPING SHALL BE INSULATED. INSULATION SHALL HAVE A FLAME SPREAD OF NOT MORE THAN 25 AND A SMOKE DENSITY NOT EXCEEDING 50 PER CMC SEC. 12.1.2.1.8 SEE SPECIFICATION FOR OTHER REQUIREMENTS.
- 16. PIPING THROUGH FIRE RATED WALLS SHALL BE PROTECTED PER U.L. FIRE RESISTANCE SYSTEM NO. WL1001. THE ARCHITECTURAL DESIGN DRAWINGS SHALL INDICATE ALL RATED WALL LOCATIONS.
- 17. SLEEVES SHALL BE PROVIDED TO PROTECT THROUGH CONCRETE FLOORS.
- 18. SEISMIC BRACING AND ANCHORAGE REQUIREMENTS ARE AS FOLLOWS:
  - A. THE SEISMIC ANCHORAGE FOR ALL MECHANICAL AND ELECTRICAL EQUIPMENT SHALL BE DESIGNED TO WITHSTAND A LATERAL FORCE:
  - 1. CALCULATED AS SPECIFIED IN SECTION 1632A AND TABLE 16A-0 OF THE VOL. 2, TITLE 24, 2022 CBC.
  - B. THE ATTACHMENT OF THE FOLLOWING ITEMS SHALL BE DESIGNED TO RESIST THE FORCES PRESCRIBED IN PART 2, TITLE 24, 2022 CBC:

  - 1. EQUIPMENT WEIGHING LESS THAN 400 LBS. SUPPORTED DIRECTLY FLOOR OR ROOF.
  - PART 2, TITLE 24, C.C.R. 3. TEMPORARY OR MOBILE EQUIPMENT.
  - 4. EQUIPMENT WEIGHING LESS THAN 20 LBS. SUPPORTED BY

2. FURNITURE REQUIRED TO BE ATTACHED IN ACCORDANCE WITH

- VIBRATION ISOLATORS. 5. EQUIPMENT WEIGHING LESS THAN 20 LBS. SUSPENDED FROM A
- ROOF OR HUNG FROM A WALL.
- 19. THE PLUMBING CONTRACTOR SHALL PROVIDE THE WATER & SEWER SYSTEMS TO A POINT OF CONNECTION 5'-0" OUTSIDE OF THE BUILDING. PIPING BEYOND THIS POINT IS SPECIFIED UNDER ANOTHER SECTION OF THE SPECIFICATIONS AND SHALL BE AS SHOWN ON THE CIVIL DRAWINGS. FINAL CONNECTIONS TO SITE PIPING SHALL BE BY THE PLUMBING CONTRACTOR.
- 20. WATER HAMMER ARRESTERS SHALL BE PROVIDED WHERE REQUIRED AND NECESSARY FOR AND TO ALL FIXTURES, EQUIPMENT OR APPLIANCES WITH QUICK CLOSING VALVE AND SHALL BE OF TYPE SPECIFIED.
- 21. ALL PIPE SIZES SHALL BE THE SAME AS THE UPSTREAM PIPE SIZES UNLESS OTHERWISE INDICATED ON PLAN.
- 22. CLEANOUT SHALL BE PROVIDED AS PER CPC SECTION 707.
- 23. NO STRUCTURAL MEMBER SHALL BE CUT, NEITHER DRILLED NOR NOTCHED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER AND THE DIVISION OF THE STATE ARCHITECT.
- 24. THESE DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC AND ARE NOT INTENDED TO INDICATE ALL DETAILS AND NECESSARY OFFSETS OF PIPING. THE CONTRACTOR SHALL INSTALL MATERIAL AND EQUIPMENT IN A MANNER AS TO CONFORM TO STRUCTURE, AVOID OBSTRUCTIONS, PRESERVE HEADROOM, AND KEEP OPENINGS AND PASSAGEWAYS CLEAR. ALL INSTALLATIONS SHALL BE CONSISTENT WITH NORMALLY ACCEPTABLE INDUSTRY STANDARDS. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING OF ANY DISCREPANCIES OR CONFLICTS THAT WOULD EFFECT THE SYSTEM PERFORMANCE OR INCUR ADDITIONAL COSTS. THIS NOTIFICATION SHALL BE SUBMITTED PRIOR TO INSTALLATION OF THE ITEMS CONCERNED.
- 25. CONTRACTOR SHALL SIZE ALL SERVICE PIPING AND EQUIPMENT TO ACCOMMODATE FUTURE EXPANSION AS INDICATED ON THE ARCHITECTURAL DRAWINGS.
- 26. PROVIDE COMPLETE CONDENSATE DRAIN PIPING FOR ALL AC UNITS AND DISCHARGE CONDENSATE TO AN APPROVED RECEPTOR.

- 27. ALL LAYOUTS, PIPE SIZES, FIXTURE & EQUIPMENT SELECTIONS SHOWN ON THESE PLANS ARE FOR REFERENCE ONLY. THE CONTRACTOR SHALL PROVIDE A COMPLETE PLUMBING SYSTEM. THE DESIGN, CALCULATIONS, FIXTURE, TRIM, EQUIPMENT AND MATERIALS SELECTIONS & DRAWINGS SHALL BE SUBMITTED FOR REVIEW AND APPROVAL AS SPECIFIED.
- 28. INSULATION THICKNESS AND R-VALUES SHALL EXCEED THE REQUIREMENTS OF TITLE 24 BY AT LEAST 20 PERCENT OR NEXT LARGER STANDARD SIZE, WHICH EVER IS GREATER. PIPE INSULATION SHALL BE NOT LESS THAN 1.0 INCH THICK. NOT INCLUDING THE MOISTURE BARRIER OR EXTERIOR JACKET THICKNESS.
- 29. NO GAS & WATER PIPE SHALL BE INSTALLED UNDER BUILDING SLAB. GAS & WATER PIPES SHALL RISE TIGHT AGAINST EXTERIOR WALL UP TO MIN. 18" AFF AND PENETRATE INTO BUILDING. PROVIDE SHUT-OFF VALVE AND REGULATOR ABOVE GRADE AT INCOMING GAS RISERS.
- 30. UNDERGROUND INSTALLATION OF WATER SHALL BE IN ACCORDANCE WITH CPC 609.2. INSTALLATION OF BUILDING SEWERS SHALL BE IN ACCORDANCE WITH CPC 718.3 & PROVISIONS UNDER CPC 720.1. GAS PIPING INSTALLATION SHALL BE IN ACCORDANCE WITH CPC 1210.
- CONTRACTOR SHALL CAREFULLY REVIEW THESE PLANS AND SPECIFICATIONS PRIOR TO BID. CONTRACTOR SHALL ALSO REVIEW PLANS AND SPECIFICATIONS OF OTHER RELATED TRADES (INCLUDING MECHANICAL, CIVIL, STRUCTURAL, AND ELECTRICAL) PRIOR TO BID TO INSURE AN ACCURATE UNDERSTANDING OF EXACT SCOPE OF WORK. ANY ITEMS REQUIRING DESCRIPTION CLARIFICATION SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IN SUFFICIENT TIME TO BE INCORPORATED INTO
- 32. ALL PLUMBING SYSTEM COMPONENTS SHALL MEET OR EXCEED THE REQUIREMENTS OF C.B.C. (CALIFORNIA EDITION), CMC, CPC, NEC, NFPA, ASTM, ANSI, AND ALL LOCAL AND STATE CODE REQUIREMENTS.
- 33. ALL PLUMBING EQUIPMENT LISTED IN (CCR) SECTION 113 OF THE 2022 CALIFORNIA CODE OF REGULATIONS, TITLE-24, PART 1, ENERGY EFFICIENCY STANDARDS MUST BE CERTIFIED BY THE MANUFACTURER TO MEET OR EXCEED SPECIFICATIONS OR EFFICIENCIES ADOPTED BY THE CEC.
- 34. ALL PIPING EXPOSED TO WEATHER SHALL BE METALLIC.
- 35. ALL FERROUS PIPING EXPOSED TO WEATHER SHALL BE GALVANIZED.
- 36. ALL PIPES, FITTINGS AND FIXTURES USED TO CONVEY POTABLE WATER SHALL BE LEAD FREE IN COMPLIANCE WITH CALIFORNIA AB 1953.
- 37. ALL INSULATING MATERIALS INSTALLED MUST BE CERTIFIED BY CALIFORNIA ENERGY COMMISSION TO MEET C.E.C. ENERGY EFFICIENCY STANDARDS (E.E.S.) SECTION 120.3 AND SECTION 1201.3.2.1.1 OF CMC (CALIFORNIA EDITION).
- 38. ALL INSULATION INSTALLED SHALL MEET THE FLAME SPREAD AND SMOKE DENSITY REQUIREMENTS OF SECTION 719 OF THE 2022 CBC.
- 39. ALL FIXTURES REQUIRED TO BE ACCESSIBLE SHALL BE INSTALLED AS PER THE LATEST REQUIREMENTS OF TITLE 24 AND ADA (AMERICANS WITH DISABILITIES ACT).
- 39. CROSS CONNECTION PROTECTION SHALL BE PROVIDED AT ALL POTABLE WATER SUPPLIED APPLIANCES AND EQUIPMENT (OTHER THAN THOSE LISTED IN INFORMATION BULLETIN 103).
- 41. ALL HEATERS FOR DOMESTIC HOT WATER MUST BE CERTIFIED BY THE MANUFACTURER TO MEET THE SPECIFICATIONS OR EFFICIENCIES AS ADOPTED THE CEC. IN ACCORDANCE WITH SECTION 110.1 OF THE CCR AND ENERGY EFFICIENCY STANDARDS RESIDENTIAL NON-RESIDENTIAL.
- 42. TANKLESS WATER HEATERS SHALL BE NATIONALLY LISTED AND BE INSTALLED IN ACCORDANCE WITH THE INSTALLATION INSTRUCTIONS THAT WERE APPROVED AS PART OF THEIR LISTING. THE GAS PIPING SERVING THIS APPLIANCE MUST BE SIZED IN COMPLIANCE WITH THE WATER HEATER'S LISTED INSTALLATION INSTRUCTIONS AND THE 2022 CALIFORNIA PLUMBING CODE.
- 43. A WATER HEATER PRESSURE AND TEMPERATURE RELIEF DRAIN THAT TERMINATES OUTSIDE THE BUILDING SHALL COMPLY WITH SECTION 608.5 OF CPC.
- 44. WATER HEATER SHALL BE ANCHORED OR STRAPPED TO RESIST HORIZONTAL
- DISPLACEMENT DUE TO EARTHQUAKE MOTION PER SECTION 507.2 OF CPC.
- 45. WATER HEATER SHALL COMPLY WITH SECTION 608.3 OF CPC, FOR THERMAL EXPANSION REQUIREMENTS.
- 46. LAVATORY FAUCETS IN COMMON AND PUBLIC USE AREAS SHALL NOT EXCEED 0.5 GALLONS PER MINUTE AT 60 PSI.
- 47. RESIDENTIAL LAVATORY FAUCETS SHALL BE 1.2 GPM MAXIMUM.
- 48. METERING FAUCETS SHALL BE 0.25 GPC MAXIMUM.
- 49. KITCHEN FAUCETS AND WASH FOUNTAINS SHALL BE 1.5 GPM MAXIMUM.
- 50. WATER CLOSETS (GRAVITY TANK TYPE, FLUSHOMETER TANK, FLUSHOMETER VALVE AND | 28. <u>DISINFECTION</u> ELECTROMECHANICAL HYDRAULIC TYPE) SHALL BE 1.28 GPF MAXIMUM.
- 51. URINALS SHALL NOT EXCEED 0.5 GALLONS PER FLUSH.
- 52. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRS AND RESTORATION OF FLOOR FINISHES DUE TO TRENCHING. FINISHES TO MATCH ARCHITECTURAL PLAN.
- 53. CONTRACTOR SHALL VERIFY EXACT POINT OF CONNECTION AND INVERT ELEVATIONS OF BURIED PIPING PRIOR TO START OF WORK.
- 54. CONTRACTOR SHALL SPECIFY PIPE SEALS FOR ALL PIPE LINES PENETRATING THROUGH FLOOR SLAB.
- 55. EXISTING CONDITION ARE BASED ON "AS-BUILT" DRAWINGS AND LIMITED FIELD VERIFICATIONS. THE CONTRACTOR SHALL ADJUST TO ACTUAL FIELD CONDITIONS AT NO ADDITIONAL EXPENSE TO THE PROJECT. NO ADDITIONAL COMPENSATION WILL BE PROVIDED FOR ANY EXTRAS DUE TO CONTRACTOR'S FAILURE TO VISIT THE PROJECT SITE & PREDETERMINATION OF EXISTING CONDITIONS PRIOR TO SUBMITTING THE BID. ANY DISCREPANCIES SHALL BE IMMEDIATELY REPORTED TO THE ARCHITECT/OWNER/ENGINEER FOR SOLUTION.
- 56. CPC 906.1, ABS/PVC VENT TERMINATIONS UP THROUGH THE ROOF EXPOSED TO SUNLIGHT ARE REQUIRED TO BE PROTECTED BY WATER BASED SYNTHETIC LATEX PAINTS.

### CALGREEN BUILDING STANDARDS CODE 2022

### <u>CHAPTER 3 — GREEN BUILDING</u>

SECTION 301 GENERAL
301.1 SCOPE. BUILDINGS SHALL BE DESIGNED TO INCLUDE THE GREEN BUILDING MEASURES SPECIFIED AS MANDATORY IN THE APPLICATION CHECKLISTS CONTAINED IN THIS CODE. VOLUNTARY GREEN BUILDING MEASURES ARE ALSO INCLUDED IN THE APPLICATION CHECKLISTS AND MAY BE INCLUDED IN THE DESIGN AND CONSTRUCTION OF STRUCTURES COVERED BY THIS CODE, BUT ARE NOT REQUIRED UNLESS ADOPTED BY A CITY, COUNTY, OR CITY AND COUNTY AS SPECIFIED IN SECTION 101.7.

303.1 PHASE PROJECTS. FOR SHELL BUILDING AND OTHERS CONSTRUCTED FOR FUTURE TENANT IMPROVEMENTS, ONLY THOSE CODE MEASURES RELEVANT TO THE BUILDING COMPONENTS AND SYSTEMS CONSIDERED TO BE NEW CONSTRUCTION (OR NEWLY CONSTRUCTED) SHALL APPLY.

303.1.1 TENANT IMPROVEMENTS. THE PROVISIONS OF THIS CODE SHALL APPLY ONLY TO THE INITIAL TENANT OR OCCUPANT IMPROVEMENTS TO A PROJECT.

### <u>CHAPTER 5 - NON-RESIDENTIAL MANDATORY MEASURES</u> DIVISION 5.2 - ENERGY EFFICIENCY

SECTION 5.201 GENERAL 5.201.1 SCOPE [BSC-CG] CALIFORNIA CODE [DSA-SS]. FOR THE PURPOSES OF MANDATORY ENERGY EFFICIENCY STANDARDS IN THIS CODE, THE CALIFORNIA ENERGY COMMISSION WILL CONTINUE TO ADOPT MANDATORY BUILDING STANDARDS.

### <u>DIVISION 5.3 – WATER EFFICIENCY AND CONSERVATION</u> SECTION 5.301 GENERAL <u>5.301.1 SCOPE.</u>

THE PROVISIONS OF THIS CHAPTER SHALL ESTABLISH THE MEANS OF CONSERVING WATER USED INDOORS, OUTDOORS AND IN WASTEWATER CONVEYANCE.

### 5.303.2 RESERVED. 5.303.3 WATER CONSERVING PLUMBING FIXTURES AND FITTINGS.

PLUMBING FIXTURES (WATER CLOSETS AND URINALS) AND FITTINGS (FAUCET AND SHOWERHEADS) SHALL COMPLY WITH THE FOLLOWING:

### THE EFFECTIVE FLUSH VOLUME OF ALL WATER CLOSET SHALL NOT

EXCEED 1.28 GALLONS PER FLUSH. TANK-TYPE WATER CLOSET SHALL BE CERTIFIED TO THE PERFORMANCE CRITERIA OF THE U.S. EPA WATER SENSE SPECIFICATION FOR TANK-TYPE TOILETS NOTE: THE EFFECTIVE FLUSH VOLUME OF DUAL FLUSH TOILETS IS DEFINED AS THE COMPOSE, AVERAGE FLUSH VOLUME OF TWO REDUCED FLUSHES AND ONE FULL FLUSH.

### 5.303.3.4 FAUCETS AND FOUNTAINS.

5.303.3.4.1 NON-RESIDENTIAL LAVATORY FAUCETS. LAVATORY FAUCETS SHALL HAVE A MAXIMUM FLOW RATE OF NOT MORE THAN 0.5 GALLONS PER MINUTES AT 60 PSI.

5.303.4.2 KITCHEN FAUCETS KITCHEN FAUCETS SHALL HAVE A MAXIMUM FLOW RATE OF MORE THAN 1.8 GALLONS PER MINUTES AT 60 PSI. KITCHEN FAUCETS MAY TEMPORARILY INCREASE THE FLOW ABOVE THE MAXIMUM RATE BUT NOT TO EXCEED 2.2 GALLONS PER MINUTES AT 60 PSI. AND MUST DEFAULT TO A MAXIMUM FLOW RATE OF 1.8 GALLONS PER MINUTES AT 60 PSI.

### 5.303.4.3 WASH FOUNTAINS. WASH FOUNTAIN SHALL HAVE A MAXIMUM FLOW RATE OF NOT MORE THAN 1.8 GALLONS PER MINUTES/20[RIM SPACE (INCHES)

5.303.4.4 METERING FAUCETS. METERING FAUCETS SHALL NOT DELIVER MORE THAN 0.20 GALLONS

5.303.4.5 METERING FAUCETS FOR WASH FOUNTAINS. METERING FAUCETS FOR WASH FOUNTAINS SHALL HAVE A MAXIMUM FLOW RATE OF NOT MORE THAN 0.20 GALLONS PER CYCLE/20 [RIM SPACE (INCHES) AT 60 PSI]. NOTE: WHERE COMPLYING FAUCETS ARE UNAVAILABLE

AERATORS OR OTHER MEANS MAY BE USED TO ACHIEVE

### REDUCTION. 5.303.6 STANDARD FOR PLUMBING FIXTURES AND FITTINGS PLUMBING FIXTURES AND FITTINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE CALIFORNIA PLUMBING CODE. AND SHALL MEET THE APPLIANCE STANDARD REFERENCED IN TABLE 1701.1 OF

THE CALIFORNIA PLUMBING CODE IN CHAPTER 6 OF THIS CODE.

AT 60 PSI].

- DISINFECT DOMESTIC WATER PIPING AS REQUIRED BY THE BUILDING CODE.
- DISINFECT ALL POTABLE WATER PIPING SYSTEMS AT THE COMPLETION OF THE PROJECT PRIOR TO BUILDING OCCUPANCY AS FOLLOWS:
  - 1. FLUSH THOROUGHLY WITH POTABLE WATER.
  - 2. FILL SYSTEM WITH WATER-CHLORINE SOLUTION CONTAINING 50 PARTS PER MILLION OF CHLORINE AND ALLOW TO STAND FOR 24 HOURS.
  - 3 FILL SYSTEM WITH WATER-CHLORINE SOLUTION CONTAINING 200 PARTS PER MILLION OF CHLORINE AND ALOW TO STAND FOR 3 HOURS.
  - 4. FLUSH SYSTEM WITH POTABLE WATER TO REMOVE ALL CHLORINE. PERFORM ANY ADDITIONAL TEST OR TREATMENT AS REQUIRED BY THE LOCAL AUTHORITY.

### PLUMBING SPECIFICATIONS

GENERAL PROVISIONS - THE GENERAL CONDITIONS, SUPPLEMENTS AND AMENDMENTS SHALL GOVERN THIS DIVISION OF THE SPECIFICATIONS. PROJECT REQUIREMENTS - PROVIDE ALL ITEMS, MATERIALS, EQUIPMENT AND LABOR REQUIRED TO COMPLETE THE WORK OR OPERATIONS

MENTIONED HEREIN, OR INDICATED ON THE DRAWINGS AND REASONABLY INFERRED THEREIN, AS REQUIRED TO MAKE A COMPLETE AND WORKING

- INTENT WORK SHALL BE DONE IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS AND THEIR INTENT, COMPLETE WITH ALL NECESSARY COMPONENTS, INCLUDING THOSE NOT NORMALLY SHOWN OR CALLED FOR, AND SHALL BE READY FOR OPERATION BEFORE ACCEPTANCE.
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE CODES. NOTHING SHOWN IN THE PLANS OR STATED IN THE SPECIFICATIONS IS INTENDED TO INDICATE THAT THE INSTALLATION OR CONNECTIONS OF ANY ITEM OR DEVICE SHOULD BE DONE CONTRARY TO MANUFACTURERS INSTRUCTIONS AND ALL APPLICABLE CODES AND REGULATIONS. THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT THE INSTALLATION AND CONNECTIONS OF ALL ITEMS AND DEVICES CONFORMS TO MANUFACTURERS INSTRUCTIONS AND TO ALL APPLICABLE CODES AND REGULATIONS.
- 5. ANY REFERENCE TO THE DESIGN AUTHORITY SHALL MEAN MR ENGINEERING CONSULTANTS, INC.
- 6. THE WORK "PROVIDE" SHALL MEAN "SUPPLY AND INSTALL" UNLESS OTHERWISE INDICATED.
- GOVERNING REGULATIONS THE WORK UNDER PLUMBING SCOPE OF WORK, SHALL CONFORM, BUT NOT LIMITED TO THE REQUIREMENTS OF THE FOLLOWING CODES, REGULATIONS AND STANDARDS:
- A. 2022 EDITIONS OF THE CALIFORNIA BUILDING CODE, INCLUDING BUT NOT LIMITED TO THE MECHANICAL, PLUMBING, FIRE AND ENERGY CODES.
- PERMITS OBTAIN ALL REQUIRED PERMITS AND PAY ALL FEES THEREFORE AND COMPLY WITH ALL LOCAL AND STATE REGULATIONS, CODES AND
- BY-LAWS APPLICABLE TO THE WORK. <u>RESPONSIBILITY</u> — VISIT THE SITE BEFORE SUBMITTING A BID AND EXAMINE ALL LOCAL AND EXISTING CONDITIONS ON WHICH THE WORK IS
- 10. NO CONSIDERATION WILL BE GRANTED FOR ANY MISUNDERSTANDING OF WORK TO BE DONE RESULTING FROM FAILURE TO VISIT THE SITE.
- WHEN THE CONTRACT DOCUMENTS DO NOT CONTAIN SUFFICIENT INFORMATION FOR THE PROPER SELECTION OF EQUIPMENT FOR BIDDING, NOTIFY THE DESIGN AUTHORITY DURING THE BIDDING PERIOD. IF CLARIFICATION CANNOT BE OBTAINED, ALLOW FOR THE MOST EXPENSIVE ARRANGEMENT. FAILURE TO DO THIS SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO SUPPLY THE INTENDED EQUIPMENT AND OR INSTALLATION.
- 12. CHECK DRAWINGS OF ALL TRADES AND SITE SURVEY TO VERIFY SPACE AVAILABILITY FOR THE INSTALLATION. COORDINATE WORK WITH ALL TRADES AND MAKE CHANGES TO FACILITATE SATISFACTORY INSTALLATION. MAKE NO DEVIATIONS TO THE DESIGN INTENT INVOLVING EXTRA COST TO THE OWNER WITHOUT DESIGN AUTHORITY WRITTEN APPROVAL.
- 13. <u>WORKMANSHIP</u> WORKMANSHIP SHALL BE IN ACCORDANCE WITH WELL ESTABLISHED PRACTICE AND STANDARDS ACCEPTED AND RECOGNIZED BY DESIGN AUTHORITY AND THE TRADE.
- 14. EMPLOY ONLY TRADESMEN HOLDING VALID TRADE QUALIFICATION CERTIFICATES. TRADESMEN SHALL PERFORM ONLY WORK THAT THEIR CERTIFICATE
- 15. <u>DRAWING AND MEASUREMENTS</u> DRAWINGS ARE GENERALLY DIAGRAMMATIC AND ARE INTENDED TO INDICATE THE SCOPE AND GENERAL ARRANGEMENT OF WORK. DO NOT SCALE DRAWINGS.
- 16. TAKE FIELD MEASUREMENTS WHERE EQUIPMENT AND MATERIAL DIMENSIONS ARE DEPENDENT UPON BUILDING DIMENSIONS.
- 17. SUBMITTALS SUBMIT THREE SETS OF ALL EQUIPMENT AND RELATED MATERIAL FOR APPROVAL PRIOR TO ORDERING.
- 18. <u>RECORD DRAWINGS</u> MAINTAIN ONE CONTRACT DRAWING, WHITE PRINT, ON SITE, SOLELY FOR THE PURPOSE OF RECORDING, IN RED, ANY CHANGES AND/OR DEVIATION FROM THE CONTRACT DRAWINGS AS IT OCCURS.

19. AT THE COMPLETION OF THE PROJECT, CERTIFY THE ABOVE-MENTIONED DRAWINGS AS BEING ACCURATE AND COMPLETE BY LABELING IN THE

LOWER RIGHT HAND CORNER IN LETTERS OF AT LEAST 1 INCH HIGH AS FOLLOWS: "AS-BUILT DRAWINGS. DATED ---". DELIVER TO DESIGN

- AUTHORITY. 20. OPERATING AND MAINTENANCE MANUALS — PREPARE INSTRUCTION MANUALS WHICH INCLUDE EQUIPMENT MANUFACTURER'S OPERATING AND
- MAINTENANCE BULLETINS, AND A REPORT ON THE TESTING AND BALANCING. SUBMIT THREE (3) COPIES TO DESIGN AUTHORITY.
- 21. EXISTING SERVICES PROTECT ALL EXISTING SERVICES AND MAKE GOOD ANY DAMAGE CAUSED BY THE WORK IN THIS CONTRACT. 22. <u>CLEAN UP</u> - MAKE GOOD AND CLEAN ALL AREAS DISRUPTED BY THIS WORK.
- 23. ARRANGEMENT AND ALIGNM, ENT OF PIPING:
- A. PIPING SHALL BE GROUPED (WHEREVER PRACTICAL) INSTALLED IN STRAIGHT PARALLEL LINES ALIGNED IN A UNIFORM DIRECT MANNER. CHANGES IN DIRECTION OF PIPING SHALL BE MADE WITH FITTINGS.
- B. PIPE LINES SHALL BE GUIDED, SUPPORTED AND ANCHORED IN SUCH MANNER THAT PIPE LINES SHALL NOT SAG OR BUCKLE.
- 24. <u>JOINTS:</u>
- A. PIPING TO EQUIPMENT SHALL BE CONNECTED WITH UNION FOR DISMANTLING AND REMOVAL.
- B. PIPING SHALL BE REAMED AFTER CUTTING. JOINTS WHEN COMPLETE SHALL BE THOROUGHLY CLEANED OF ALL EXCESS PIPE JOINT MATERIALS.
- C. PROVIDE DIELECTRIC FITTINGS BETWEEN DISSIMILAR PIPING CONNECTIONS.

### 25. <u>HANGERS AND SUPPORTS:</u>

B. OSHA REGULATIONS

- A. PIPING EQUIPMENT, ETC., SHALL BE PROPERLY SUPPORTED WITH THE USE OF APPROVED TYPE CLEVIS AND/OR TRAPEZE HANGERS SPACED 5'-0" ON CENTERS FOR CAST IRON PIPING AND 8'0" ON CENTERS FOR WATER PIPING.
- B. PIPING AND EQUIPMENT SHALL BE SUPPORTED FROM WALLS, JOISTS OR STRUCTURAL STEEL GIRDERS ONLY.

### 26. PLUMBING FIXTURES:

27. <u>INSULATION:</u>

- A. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL FIXTURES INCLUDED IN THE CONTRACT FROM DAMAGE CAUSED BY ACIDS, BUILDING MATERIALS, TOOLS, EQUIPMENT, ETC. UPON COMPLETION OF THE CONTRACT, OR WHEN DIRECTED, PLUMBING CONTRACTOR SHALL CLEAN ALL FIXTURES TO THE SATISFACTION OF THE DESIGN AUTHORITY.
- B. WHERE FIXTURES ARE DAMAGED, SAID FIXTURES SHALL BE REPLACED BY THE PLUMBING CONTRACTOR IMMEDIATELY UPON NOTIFICATION.
- C. ALL EQUIPMENT FURNISHED BY OWNERS THAT REQUIRE PLUMBING CONNECTION SHALL BE INSTALLED BY THE PLUMBING CONTRACTOR. PROVIDE SHUT-OFF VALVE ON WATER SUPPLY WERE REQUIRED BY CODE.
- D. EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTION.
- E. FIXTURES SHALL BE SECURED WITH MOUNTING BOLTS FROM CARRIERS OR HANGERS.
- F. FIXTURES SHALL BE INSTALLED LEVEL, PLUMB.
- G. FITTINGS SHALL BE NEATLY INSTALLED, MOUNTED TO FIXTURES PRIOR TO INSTALLATION OF FIXTURES. PROVIDE NON-HARDENING PUTTY BETWEEN FITTINGS AND FIXTURE SURFACES.
- H. FITTINGS SHALL BE SECURED WITHOUT MARRING OR DAMAGING CHROME PLATING.
- A. DOMESTIC HOT WATER PIPING INSULATION SHALL BE COMPLIANCE TO CEC TABLE 120.3-A.

C. ALL PIPING WITH A NOMINAL DIAMETER OF 3/4" OR LARGER.

- B. THE FIRST 5 FEET OF HOT AND COLD WATER PIPES FROM THE STORAGE TANKS.
- D. ALL PIPING ASSOCIATED WITH A DOMESTIC HOT WATER RE-CIRCULATION SYSTEM REGARDLESS OF THE PIPE DIAMETER.

E. PIPING FROM THE HEATING SOURCE TO STORAGE TANK OR BETWEEN TANKS.

- F. PIPING BURIED BELOW GRADE.
- G. INSULATION SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- H. INSTALLATION OF INSULATIONS SHALL BE DONE ONLY AFTER PIPING ARE TESTED AND DETERMINED TO BE FREE FROM LEAKS.

### PLUMBING LEGEND

WBFP WATER BACKFLOW PREVENTER

POC/POD POINT OF CONNECTION / POINT OF DISCONNECTION

DESCRIPTION

SYMBOL ABBREVIATION

•	F0C/F0D	POINT OF CONNECTION / POINT OF DISCONNECTION
——SS——	SS	SANITARY SEWER PIPING
GW	GW	GREASE WASTE PIPING
	V	VENT PIPING
	CW	DOMESTIC COLD WATER PIPING
	HWS	DOMESTIC HOT WATER SUPPLY PIPING
	HWR	DOMESTIC HOT WATER RETURN PIPING
—	CD	CONDENSATE DRAIN PIPING
	- 05	PIPE DOWN
		PIPE UP
<u> </u>		PIPE BRANCH - TOP CONNECTION
<del></del> -		PIPE BRANCH - BOTTOM CONNECTION
		PIPE BRANCH - SIDE CONNECTION
<del></del> 3		PIPE CAP
<del></del>		PIPE SLEEVE
		DIRECTION OF FLOW
		PIPE SLOPE & DIRECTION OF FALL
Ψ		THERMOMETER
ģ	WHA	WATER HAMMER ARRESTOR
	******	PIPE BREAK
<u></u>	WCO	WALL CLEANOUT
/\	1100	PIPE CONTINUATION
	FCO /00TO	
<del></del>	FCO/COTG	FLOOR CLEANOUT OR CLEANOUT TO GRADE
<u> </u>	FD	FLOOR DRAIN
	FS	FLOOR SINK
-> ∕ <u>Ş</u> -	SOV	SHUT OFF VALVE, PLAN / RISER
<b></b>	PRV	PRESSURE REDUCING VALVE
<del></del>		GAS VALVE /PLUG COCK
<u>Q</u>		PRESSURE GAUGE
<del>-</del>		CIRCUIT SETTER/BALACING VALVE
——₩——	BLV	BALANCING VALVE
	<i>□</i> ∟ <b>v</b>	SOLENOID VALVE
	SOV	
<u></u> ₿	SGV	SEISMIC GAS SHUT-OFF VALVE
<u> </u>	BV	BALL VALVE
<u> </u>	CV	CHECK VALVE
9 / ®	PG	PRESSURE GAUGE
	TMV	THERMOSTATIC MIXING VALVE
<b>‡</b> ⊓	RV	SAFETY RELIEF VENT
i		PIPE UNION
<u> </u>	НВ	HOSE BIBB
		HOSE END GATE VALVE WITH HOSE CAP
4	AFF	ABOVE FINISHED FLOOR
	AFG	ABOVE FINISHED FLOOR  ABOVE FINISHED GRADE
	ARCH	ARCHITECT OR ARCHITECTURAL
	B/C	BELOW COUNTER
	B/G	BELOW GRADE
	B/S	BELOW SLAB
	C.I.	CAST IRON
	CCO	CEILING CLEAN OUT
	DWG/DWGS	DRAWING/DRAWINGS
	DN	DOWN
	EA	EACH
	ELECT	ELECTRICAL
	ELEV	ELEVATION
	*F	DEGREES FAHRENHEIT
	F/A - F/B	FROM ABOVE - TO BELOW
	FFE	FINISHED FLOOR ELEVATION
	FH	FUME HOOD
	FT	FEET
	FT HD	FEET OF HEAD
	GPF	GALLONS PER FLUSH
	GPM	GALLONS PER PLOSH  GALLONS PER MINUTE
	= 1 111	
	GA	GAUGE
	HB	(+18")
	HD	HEAD
		HIGH LEVEL — LOW LEVEL
	IPS	IRON PIPE SIZE
	I.E.	INVERT ELEVATION
	MAX	MAXIMUM
	MAU	MAKE AIR UNITS
	MECH	MECHANICAL
	MIN	MINIMUM
	MTD	MOUNTED NOT TO SCALE
	NTS	NOT TO SCALE
		POLYVINYL CHLORIDE PIPE
	PVC	
	PVC PSI	POUNDS PER SQUARE INCH
		POUNDS PER SQUARE INCH PRESSURE AND TEMPERATURE RELIEF VALVE
	PSI	
	PSI P&TRV	PRESSURE AND TEMPERATURE RELIEF VALVE
	PSI P&TRV QTY	PRESSURE AND TEMPERATURE RELIEF VALVE QUANTITY
	PSI P&TRV QTY SOV SQ FT	PRESSURE AND TEMPERATURE RELIEF VALVE QUANTITY SHUT OFF VALVE SQUARE FEET
	PSI P&TRV QTY SOV SQ FT T/A - T/B	PRESSURE AND TEMPERATURE RELIEF VALVE QUANTITY SHUT OFF VALVE SQUARE FEET TO ABOVE / TO BELOW
	PSI P&TRV QTY SOV SQ FT T/A - T/B TYP	PRESSURE AND TEMPERATURE RELIEF VALVE QUANTITY SHUT OFF VALVE SQUARE FEET TO ABOVE / TO BELOW TYPICAL
	PSI P&TRV QTY SOV SQ FT T/A - T/B TYP VCP	PRESSURE AND TEMPERATURE RELIEF VALVE QUANTITY SHUT OFF VALVE SQUARE FEET TO ABOVE / TO BELOW TYPICAL VITRIFIED CLAY PIPE
	PSI P&TRV QTY SOV SQ FT T/A - T/B TYP	PRESSURE AND TEMPERATURE RELIEF VALVE QUANTITY SHUT OFF VALVE SQUARE FEET TO ABOVE / TO BELOW TYPICAL
	PSI P&TRV QTY SOV SQ FT T/A - T/B TYP VCP	PRESSURE AND TEMPERATURE RELIEF VALVE QUANTITY SHUT OFF VALVE SQUARE FEET TO ABOVE / TO BELOW TYPICAL VITRIFIED CLAY PIPE
EQUIPMENT	PSI P&TRV QTY SOV SQ FT T/A - T/B TYP VCP	PRESSURE AND TEMPERATURE RELIEF VALVE QUANTITY SHUT OFF VALVE SQUARE FEET TO ABOVE / TO BELOW TYPICAL VITRIFIED CLAY PIPE VENT THRU ROOF  EQUIPMENT TYPE
EQUIPMENT	PSI P&TRV QTY SOV SQ FT T/A - T/B TYP VCP VTR	PRESSURE AND TEMPERATURE RELIEF VALVE QUANTITY SHUT OFF VALVE SQUARE FEET TO ABOVE / TO BELOW TYPICAL VITRIFIED CLAY PIPE VENT THRU ROOF  EQUIPMENT TYPE
EQUIPMENT	PSI P&TRV QTY SOV SQ FT T/A - T/B TYP VCP VTR	PRESSURE AND TEMPERATURE RELIEF VALVE QUANTITY SHUT OFF VALVE SQUARE FEET TO ABOVE / TO BELOW TYPICAL VITRIFIED CLAY PIPE VENT THRU ROOF  EQUIPMENT TYPE N SYMBOL WH-1 EQUIPMENT IDENTIFIER
EQUIPMENT	PSI P&TRV QTY SOV SQ FT T/A - T/B TYP VCP VTR	PRESSURE AND TEMPERATURE RELIEF VALVE QUANTITY SHUT OFF VALVE SQUARE FEET TO ABOVE / TO BELOW TYPICAL VITRIFIED CLAY PIPE VENT THRU ROOF  EQUIPMENT TYPE N SYMBOL WH-1 EQUIPMENT IDENTIFIER
EQUIPMENT	PSI P&TRV QTY SOV SQ FT T/A - T/B TYP VCP VTR	PRESSURE AND TEMPERATURE RELIEF VALVE QUANTITY SHUT OFF VALVE SQUARE FEET TO ABOVE / TO BELOW TYPICAL VITRIFIED CLAY PIPE VENT THRU ROOF  EQUIPMENT TYPE N SYMBOL WH-1
	PSI P&TRV QTY SOV SQ FT T/A - T/B TYP VCP VTR  IDENTIFICATION	PRESSURE AND TEMPERATURE RELIEF VALVE QUANTITY SHUT OFF VALVE SQUARE FEET TO ABOVE / TO BELOW TYPICAL VITRIFIED CLAY PIPE VENT THRU ROOF  SYMBOL WH-1 EQUIPMENT TYPE EQUIPMENT IDENTIFIER  OPE OF WORK
	PSI P&TRV QTY SOV SQ FT T/A - T/B TYP VCP VTR  IDENTIFICATION	PRESSURE AND TEMPERATURE RELIEF VALVE QUANTITY SHUT OFF VALVE SQUARE FEET TO ABOVE / TO BELOW TYPICAL VITRIFIED CLAY PIPE VENT THRU ROOF  EQUIPMENT TYPE N SYMBOL WH-1 EQUIPMENT IDENTIFIER
	PSI P&TRV QTY SOV SQ FT T/A - T/B TYP VCP VTR  IDENTIFICATION  SCO	PRESSURE AND TEMPERATURE RELIEF VALVE QUANTITY SHUT OFF VALVE SQUARE FEET TO ABOVE / TO BELOW TYPICAL VITRIFIED CLAY PIPE VENT THRU ROOF  SYMBOL WH-1 EQUIPMENT TYPE EQUIPMENT IDENTIFIER  OPE OF WORK  RKS FOR A TENANT IMPROVEMENT PROJECT
	PSI P&TRV QTY SOV SQ FT T/A - T/B TYP VCP VTR  IDENTIFICATION  SCO	PRESSURE AND TEMPERATURE RELIEF VALVE QUANTITY SHUT OFF VALVE SQUARE FEET TO ABOVE / TO BELOW TYPICAL VITRIFIED CLAY PIPE VENT THRU ROOF  SYMBOL WH-1 EQUIPMENT TYPE EQUIPMENT IDENTIFIER  OPE OF WORK

PO.1 PLUMBING GENERAL NOTES, 2022 CAL GREEN, SPECIFICATION,

LEGEND AND SYMBOLS

P3.1 PLUMBING SCHEMATIC DIAGRAM

PO.2 PLUMBING SCHEDULES

PO.3 PLUMBING T-24 FORMS

PO.4 PLUMBING T-24 FORMS

P2.1 PLUMBING LAYOUT

P4.1 PLUMBING DETAILS

P4.2 PLUMBING DETAILS

DESCRIPTION

SU S N N N AB S





TITLE:

PLUMBING GENERAL NOTES 2022 CAL GREEN **SPECIFICATION LEGEND** AND SYMBOLS

> JOB NO:B2306-AA12 DRAWN: CHECKED:

SCALE:

DATE: 06.28.2023

	FIX	TURE LO	OAD CAI	CULAT	ION		
TAG	DESCRIPTION	DESCRIPTION QTY SUPPLY FIXTURE			TOTAL		
.,,,			FIXTURE UNIT	KE	COLD WATER	HOT WATER	SEWER
7	ICE MACHINE	1	1.0	INDIRECT	1.0	_	_
10	HAND SINK	1	2.0	2.0	2.0	1.50	2.0
11	PREP SINK	1	3.0	INDIRECT	3.0	2.25	_
12	3-COMP. SINK	1	6.0	INDIRECT	6.0	4.50	_
13	MOP SINK	1	3.0	3.0	3.0	2.25	3.0
FD	FLOOR DRAIN	1	_	6.0	_	_	6.0
FS	FLOOR SINK	5	_	6.0	_	_	30.0
·	TOTAL FIX	TURE UNIT:	•	•	15.0	10.5	41.0
	ESTIMA <sup>-</sup>	TED GPM:			11.0	8.0	_

NOTES:

1. WATER SUPPLY FIXTURE UNITS BASED UPON APPENDIX A, TABLE A103.1, 2022 CALIFORNIA PLUMBING CODE.

2. DRAINAGE FIXTURE UNITS BASED UPON CHAPTER 7, TABLE 702.1, 2022 CALIFORNIA PLUMBING CODE.

PIPE SIZE TABLE							
		COLD	WATER		HOT WATER		
PIPE SIZE	GPM	FLUSH TANK FIXTURE UNIT	FLUSH VALVE FIXTURE UNIT	VELOCITY (FT/S)	GPM	FLUSH TANK FIXTURE UNIT	VELOCITY (FT/S)
1/2"	2.22	1.4	_	3.06	2.22	1.4	3.06
3/4"	5.73	6.7	_	3.80	5.73	6.7	3.80
1"	11.45	15.4	_	4.45	11.45	15.4	4.45
1-1/4"	19.76	29.5	_	5.04	19.59	29.2	5.00
1-1/2"	31.01	56.0	14.0	5.59	27.72	48.2	5.00
2"	63.60	193.0	86.8	6.59	48.23	119.9	5.00
2-1/2"	111.55	438.5	305.6	7.50	74.37	246.7	5.00
3"	169.85	747.1	699.0	8.00	106.16	411.8	5.00
NOTEC		•		•		•	

NOTES:

1. PRESSURE AVAILABLE IN THE BUILDING PIPING IS ASSUMED TO BE AT LEAST 4.5PSI/100FT. CONTRACTOR TO VERIFY AT SITE

2. COLD WATER NOT TO EXCEED 8 FEET PER SECOND.

3. HOT WATER NOT TO EXCEED 5 FEET PER SECOND.

(N)ST	(N)STORAGE TYPE WATER HEATER					
	CAI	_CULATI	ION			
			GPH	TOTAL GPH		
TAG	DESCRIPTION	QTY	PER FIXTURE	PER FIXTURE		
10	HAND SINK	1	5.0	5.0		
11	PREP SINK	1	5.0	5.0		
12	3-COMP. SINK	1	45.0	45.0		
13	MOP SINK	1	20.0	20.0		
(SINGLE-USE	60.0					
	60.0					
MINI	MUM WATER H	IEATER EFFICIE	ENCY:	0.98		
	MINIMUM IN	NPUT (kW):		9.0		

TAI	BLE 120.3-A PIP	E INSULAT	TION THI	ICKNESS		
FLUID TEMPERATURE	CONDUCTIVITY RANGE (IN	INSULATION MEAN	NOMINAL PIP	E DIAMETER (IN IN	NCHES)	
RANGE (*F)	BTU-INCH PER HOUR PER SQUARE FOOT PER *F)	RATING TEMPERATURE (*F)	<1	<1 TO <1.5	<1.5 TO <4	
				INSULATION THICKNESS REQUIRED (IN INCHES)		
SYSTEMS (RECIRCUL PIPING FROM THE	T WATER SYSTEMS (STEAM, S ATING SECTIONS, ALL PIPING STORAGE TANK FOR NONREC	IN ELECTRIC TRACE IRCULATING SYSTEMS	TAPE SYSTEMS,	, AND THE FIRST	8 FEET OF	
ABOVE 350	0.32-0.34	250	4.5	5.0	5.0	
251-350	0.29-0.32	200	3.0	4.0	4.5	
201-250	0.27-0.30	150	2.5	2.5	2.5	
141-200	0.25-0.29	125	1.5	1.5	2.0	
105-140	0.22-0.28	100	1.0	1.5	1.5	
NOTE: PIPE INSULAT	TON THICKNESS RANGE (105	- 200°F FLUID TEM	PERATURE)	1		

PLUMBING PIPE MATERIAL SCHEDULE					
SERVICE	LOCATION	PIPE MATERIAL	SLOPE		
	ABOVE GRADE	ASTM B88 TYPE "L" HARD DRAWN COPPER WITH WROUGHT COPPER FITTINGS.	1/32" PER 1'		
WATER	BELOW GRADE	ASTM B88 TYPE "K" HARD DRAWN COPPER, FACTORY INSULATED, WITH WROUGHT COPPER BRAZED JOINT FITTINGS.	1/32" PER 1'		
CEWED AND VENT	ABOVE GRADE	ASTM A888 SERVICE WEIGHT HUBLESS CAST IRON, ALL FITTINGS SHALL BE AS PER CPC.	1/4" PER 1'		
SEWER AND VENT	BELOW GRADE	ABS SCHEDULE 40 (CONFORM TO ASTMD 2321-2000), ALL FITTINGS SHALL BE AS PER CPC.	1/4" PER 1'		
	ABOVE GRADE	SCHEDULE 40 GALVANIZED STEEL "BLACK" PIPE. ALL FITTINGS SHALL BE AS PER CPC.	1/4" PER 15'		
NATURAL GAS	BELOW GRADE	SCHEDULE 40 GALVANIZED STEEL "BLACK" PIPE W/ FACTORY INSTALLED COATING LISTED FOR DIRECT BURIAL. ALL FITTINGS SHALL BE AS PER CPC.	1/4" PER 15'		
CONDENSATE	ABOVE GRADE	ASTM B88 TYPE "L" HARD DRAWN COPPER WITH WROUGHT COPPER FITTINGS.	1/8" PER 1'		

				Р	LUMBING	FIXTURE	& EQUIPM	MENT SCH	EDULE	
TAG	DESCRIPTION	MFR	MODEL		WASTE		VENT	WA	TER	REMARKS
IAG	DESCRIP HON	IVITIX	MODEL	DIRECT	INDIRECT	TRAP	VENT	CW	HW	KLMAKKS
1	HOT FOOD STATION	VOLLRATH	T39710-2	_	YES	_	_	_	_	REFER TO OWNER'S EQUIPMENT LIST.
7	ICE MACHINE	AVANTCO	KMC-H-322-A	_	YES	_	_	1/2"	_	REFER TO OWNER'S EQUIPMENT LIST.
10	HAND SINK	REGENCY	600HS12SP	2"	_	2"	1-1/2"	3/4"	3/4"	REFER TO OWNER'S EQUIPMENT LIST.
11	PREP. SINK	REGENCY	600S1181818XLFT	_	YES	_	_	3/4"	3/4"	REFER TO OWNER'S EQUIPMENT LIST.
12	3-COMP. SINK	REGENCY	600S3162018G	_	YES	_	_	3/4"	3/4"	REFER TO OWNER'S EQUIPMENT LIST.
13	MOP SINK	FLORESTONE	MSR-2424	3"	_	3"	2"	3/4"	3/4"	REFER TO OWNER'S EQUIPMENT LIST.
FD	FLOOR DRAIN	ZURN	Z415B	2"	_	2"	1-1/2"	_	_	FLOOR DRAIN — 'ZURN' MODEL Z415B, NO—HUB, DURA—COATED CAST IRON BODY, NICKEL BRONZE TOP TYPE 'B' STRAINER WITH TRAP PRIMER CONNECTION.
FS	FLOOR SINK	ZURN	Z1900	3"	_	3"	2"	_	_	FLOOR SINK — "ZURN" MODEL: Z1900 SANI—FLOR RECEPTOR 12"X12"X6" DEEP CAST IRON BODY AND SQUARE, LIGHT DUTY GRATE
19	(N)WATER HEATER	RHEEM	ELD40-TB	-	YES	_	_	1"	1"	"RHEEM"ELD40-TB, ELECTRIC STORAGE-TYPE WATER HEATER, 40 GALLON STORAGE CAPACITY AND 68 GPH RECOVERY RATE AT 60°F RISE, ELECTRICAL CHARACTERISTIC: 10kW/3-PHASE/208V; SIMULTANEOUS WIRING
CP-1	HOT WATER CIRCULATOR PUMP	TACO	113S	-	_	_	_	-	3/4"	HOT WATER CIRCULATOR PUMP — "TACO 113S" HW CIRCULATING IN—LINE CENTRIFUGAL PUMP. CAPACITY 2.0 GPM AT TDH—15 FEET, 1/8 HP, 115 V, 60HZ, 1ø, INSTALL PER MANUFACTURER'S INSTRUCTIONS, S/S MATERIAL FOR DOMESTIC WATER USE, TEMPERATURE CONTROL.
ET-1	EXPANSION TANK	PROFLO	PFXT5	_	_	_	_	_	_	EXPANSION TANK - "PROFLO" MODEL PFXT5, 2.0 GALLONS
(E)GT	HYDROMECHANICAL GREASE INTERCEPTOR	GB-250	GB-250	4"	_	_	4"	_	_	EXISTING HYDROMECHANICAL GREASE INTERCEPTOR; FLOWRATE: 100 GPM; GREASE CAPACITY: 1751 LBS
TP	TRAP PRIMER	MIFAB	M-500	_	_	_	-	1/2"	_	PRESSURE DROP ACTIVATED, BRASS CONSTRUCTION. PROVIDE WITH MULTIPLE DISTRIBUTION UNIT (IF APPLICABLE), PROVIDE WITH APPROVED ACCESS PANEL.
-	BALANCING VALVE	WATTS	LFCSM-61-S	-	_	_	-	_	3/4"	BALANCING VALVE — BALL—TYPE DESIGN, EXTENDED THROTTLING RANGE, AND LARGE PLATE, MAKE FOR ACCURATE FLOW MEASUREMENT, EVEN IN VERY FLOW RANGES.
WCO	WALL CLEAN OUT	ZURN	ZS1468	SEE	RISER	_	-	_	_	ROUND STAINLESS STEEL WALL ACCESS COVER COMPLETE WITH SECURING SCREW AND BRONZE RAISED HEX HEAD PLUG.
FCO	FLOOR CLEAN OUT	ZURN	Z1400	SEE L	_AYOUT	_	_	_	_	ADJUSTABLE FLOOR CLEANOUT, DURA—COATED CAST IRON BODY WITH GAS AND WATERTIGHT ABS TAPERED THREAD PLUG AND ROUNDSCORIATED CAST IRON HEAVY—DUTY SECURED TOP ADJUSTABLE TO FINISHED FLOOR.

1. CONTRACTOR MAY SUBSTITUTE APPROVED EQUIVALENTS FOR SPECIFIED FIXTURES WITH OWNER'S AND ENGINEER'S APPROVAL. PROVIDED ALL THE REQUIREMENTS OF THE APPLICABLE CODE ARE MET.

2. CONTRACTOR TO SUBMIT CUT—SHEETS OF ALL FIXTURES FOR OWNER'S REVIEW AND APPROVAL PRIOR TO INSTALLATION.

GAS LOAD SUMMARY						
TAG QTY [		DESCRIPTION	GAS REQUIRE	EMENT (CFH)		
TAG	QTY	DESCRIPTION	PER UNIT	TOTAL		
6	1	6 GAS BURNER 60"	276.0	276.0		
24	180.0					
TOTAL GAS D	456.0					
PIPE LENGTH	TO MOST RE	MOTE OUTLET	(FT) :	57.0		
FITTINGS FAC	TOR :			1.5		
TOTAL DEVEL	TOTAL DEVELOPED LENGTH (FT) :					
EQUIVALENT I	100					
INLET PRESSU	JRE (in. W.C)	:		7.0		

			_				
AD SUMMARY				GAS PIP			
ESCRIPTION	GAS REQUIREMENT (CFH)		GAS REQUIREMENT (CFH)			SIZ	ES
DESCRIPTION	PER UNIT	TOTAL	•	PIPE SIZE	CFH		
6 GAS BURNER 60"	276.0	276.0		1/2"	50		
	90.0	180.0		3/4"	104		
FRYER	90.0	180.0		1"	195		
		456.0		1-1/4"	400		
OTE OUTLET	(FT) :	57.0		1-1/2"	600		
		1.5		2"	1160		
FT) :		86		2-1/2"	1840		
		100		3"	3260		
		7.0		4"	6640		
		,,,,		5"	12000		
				SIZING BASE CPC TABLE	D ON 2022 1215.2(1)		
			L				

HYDROMECHANICA						
INTERCEPTOR SIZING						
FIXTURES	LOAD (GALLON)					
G107 - FOOD/RET	AIL 5					
HAND SINK (9x9x4x1)/(231)0.75	1.05					
PREP. SINK (18x18x14x1)/(231)0.75	14.73					
3-COMP SINK (16x20x12x3)/(231)0.75	37.40					
MOP SINK (24x24x10x1)/(231)0.75	18.70					
FD	2.00					
HOT FOOD STATION	2.00					
G107 - FOOD/RETAIL 5 (SUB-TOTAL LOAD FOR OUR TENANT SPACE)	75.88					
G108 - FOOD/RETAIL 6 (NOT IN SCOPE)	73.88					
REMAINING LOAD FOR FUTURE TENANT SPACE (NOT IN SCOPE)	25.00					
TOTAL	<u>174.76</u>					
GREASE INTERCEPTO	OR SIZE					
1 - MINUTE PERIOD	150 GPM					
2 - MINUTE PERIOD	100 GPM					
NOTE: USE 100 GPM FOR 2	MINUTE PERIOD					

MARK QTY DESCRIPTION

MARK	QIY	DESCRIPTION		ELECTRI	CAL		WA	IER	WASTE	INPUI	REMARKS
			AMPS	HERTZ	VLTS	PHASE	COLD	НОТ	SIZE	BTUS	
1		(N) 60" HOT FOOD STATION BRAND: VOLLRATH MODEL: T39710-2	16	60	120	1					60W 24D 49H
2		(N) REFRIGERATED PREP TABLE BRAND: BEVERAGE—AIR MODEL: SPE60HC—16	9.6	60	115	1					60W 29.25 D 41.1H
3		(N) FREEZER BRAND: AVANTCO MODEL: SS-1F-HC 29"	2.62	60	115	1					29W 32.25D 82.5H
4		(N) REFRIGERATOR BRAND: AVANTCO MODEL: SS-2R-HC 54"	6.08	60	115	1					NSF APPROVE
5		(N) RICE COOKER BRAND: AVANTCO MODEL: 177RW90			120						NSF APPROVE
6		(N) 6 BURNER 60" NATURAL GAS BRAND: COOKING PERFORMANCE GROUP MODEL: S60-GS24-N								276,000	
7		(N) ICE MACHINE 22" BRAND: AVANTCO MODEL: KMC-H-322-A	12	60	115		х				
8		(N) GLASS DOOR MERCHANDISER 29.5" BRAND: BEVERAGE AIR MODEL: MT23-1B	7	60	115						
9		(N) COUNTERTOP HEATED DISPLAY CASE BRAND: AVANTCO MODEL: HDC-36	13.6	60	120						
10		(N) WALL MOUNTED HAND SINK BRAND: REGENCY MODEL: 600HS12SP					x	x			9"X9"X4" COMPARTMENT  NSF APPROVE
11		(N) PREP SINK BRAND: REGENCY MODEL: 600S1181818XLFT					х	Х			18"X18"X14" COMPARTMENT INDIRECT DISCHARGE TO FLOOR SINK NSF APPROVE
12		(N) THREE COMPARTMENT SINK BRAND: REGENCY MODEL: 600S3162018G					х	Х			16"X20"X12" COMPARTMENT INDIRECT DISCHARGE TO FLOOR SINK NSF APPROVE
13		(N) MOP SINK BRAND: FLORESTONE MODEL: MSR-2424					х	х			24"X24"X10" COMPARTMENT  NSF APPROVE
14		(N) FLOOR SINK BRAND: ZURN MODEL: Z1900									NSF APPROVE
15		(N) SOAP DISPENSER BRAND: LAVEX MODEL: 712LSD40V									NSF APPROVE
16		(N) TOWEL DISPENSER BRAND: LAVEX MODEL: 712LSD40V									NSF APPROVE
17		(N) SPLASH GUARD MATERIAL: STAINLESS STEEL HEIGHT: 12"									NSF APPROVE
18		(N) COUNTER CUSTOM MADE MODEL: QUARTZ									2 DRY STORAGE UNDERSHELF 24X60 2 TIER NSF APPROVE
19		(N) WATER HEATER BRAND: RHEEM MODEL: ELD40TB						Х			SEE SPEC SHEET ON THIS SHEET  NSF APPROVE
20		(N) AIR CURTAIN BRAND: CURTRON MODEL: AP-2-36-1-SS		1/3	120	1					PROVIDED WITH AUTOMATIC DOOR PLUNGER SWITCH NSF APPROVE
21		(N) DRAIN BOARD DIMENSIONS: 12X24X36									NSF APPROVE
22		(N) EMPLOYEE LOCKERS BRAND: GLOBAL INDUSTIRAL 4 DOOR MODEL: T9F493455GY									NSF APPROVE
23		(N) WIRE RACK (14X36) BRAND: REGENCY MODEL: 460EB1848K85									2 DRY STORAGE UNDERSHELF 18X24 6 TIER TOTAL DRY STORAGE: 48 LF
24		(N) DEEP FRYER BRAND: MAINSTREET EQUIPMENT MODEL: 541FF40N								90,000	15.5"W X 30.25"D X 47 1/8"H NSF APPROVE

WATER WASTE INPUT

REMARKS

ELECTRICAL

REV	DESCRIPTION	DATE

SABOR PIRI PIRI ENANT IMPROVEMEN





PLUMBING SCHEDULES

JOB NO:B2306-AA123 CHECKED: SCALE: DATE: 06.28.2023

□ Isolation valves for instantaneous water heater with input rating >6.8 kBTUH or 2 kW has been specified per 110.3(c)6

systems serving an individual bathroom space may be an instantaneous electric water heater.

Generated Date/Time:

Report Version: 2022.0.000

Schema Version: rev 20220101

School buildings < 25,000 ft<sup>2</sup> and < 4 stories must install a heat pump water heating system per 140.5(a)1. Water heating

Documentation Software: Energy Code Ace

Compliance ID: 115932-0623-0003

Report Generated: 2023-06-26 14:56:43

20

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Project Name: SABOR PI	ANCE					NR
900 B	RI PIRI TENANT	IMPROVEMENT		Report Page:		(Pa
800 B /	AVENUE SUITE 8	804 NATIONAL CIT	Y CA 91950	Date Prepared:		2023-06-26T17:56:
G. DOMESTIC HOT V	VATER DISTR	RIBUTION SYST	EM			
compliance is demons	trated with re	quirements 110.	nresidential occupancies with distri .3(c), 160.4, 170.2(d). elling Units or Nonresidential Spac		and 140.5. For multifamily and hot	tel/motel occupancies,
Yes	No	Not Applicable	ling ones of Nonesiaential Space		irement	
01		0	Air release valve or vertical pump	installation per 110.3(c)4A		
02	0	0	Check valve or similar located bet	ween recirculation pump and	water heating equipment to preve	ent backflow per 110.3(c)4
03	0		Hose bibb installed between pum	p and equipment and isolation	valve between hose bibb and equ	uipment per 110.3(c)4C
04			Isolation valves on both sides of the	he pump per 110.3(c)4D		
05	0	•	Cold water and recirculation loop	piping shall not be connected	to the hot water storage tank drai	in port per 110.3(c)4E
06			Check valve installed on cold water	er supply between hot water sy	stem and next closest tee on cold	l water supply per 110.3(c
07	0	•	DWELLING UNITS ONLY: For centra dwelling units per 170.2(d) unless			rculation system serving so
08	0	•	DWELLING UNITS ONLY: For heat precirculation loop tank and shall naths per 170.2(d)2A.			
09	0	•	DWELLING UNITS ONLY: For heat pauxiliary heating is needed. The re			
			Ge	enerated Date/Time:	Docum	nentation Software: Energy Co
CA Building Energy Effic	iency Standard	s - 2022 Nonresid	ential Compliance Re	enerated Date/Time: eport Version: 2022.0.000 chema Version: rev 20220101		Compliance ID: 115932-06
			ential Compliance Re	eport Version: 2022.0.000	Repo	Compliance ID: 115932-06; ort Generated: 2023-06-26 1
STATE OF CALIFORNIA  Domestic Wate	r Heating		ential Compliance Re	eport Version: 2022.0.000	Repo	Compliance ID: 115932-06: ort Generated: 2023-06-26 1
CA Building Energy Effic STATE OF CALIFORNIA Domestic Water CERTIFICATE OF COMPLI Project Name: SABOR PI	r Heating	System	ential Compliance Re	eport Version: 2022.0.000	Repo	Compliance ID: 115932-06: oort Generated: 2023-06-26 1 CALIFORNIA ENERGY COMI
STATE OF CALIFORNIA  Domestic Wate  CERTIFICATE OF COMPLI  Project Name: SABOR PI	r Heating : ANCE RI PIRI TENANT	System	ential Compliance Re Sci	eport Version: 2022.0.000 chema Version: rev 20220101	Repo	Compliance ID: 115932-06: oort Generated: 2023-06-26 1 CALIFORNIA ENERGY COMI NR (Pag
STATE OF CALIFORNIA  Domestic Water  CERTIFICATE OF COMPLI  Project Name: SABOR PI  800 B	r Heating : ANCE RI PIRI TENANT AVENUE SUITE 8	System  IMPROVEMENT  B04 NATIONAL CIT	ential Compliance Re Sci	eport Version: 2022.0.000 chema Version: rev 20220101  Report Page:	Repo	Compliance ID: 115932-06: oort Generated: 2023-06-26 1 CALIFORNIA ENERGY COMI NR (Pag
STATE OF CALIFORNIA  Domestic Water  CERTIFICATE OF COMPLIA  Project Name: SABOR PI  800 B A	r Heating : ANCE RI PIRI TENANT AVENUE SUITE E	System  IMPROVEMENT B04 NATIONAL CIT	ential Compliance Re Sci	eport Version: 2022.0.000 chema Version: rev 20220101  Report Page:	Repo	Compliance ID: 115932-06: oort Generated: 2023-06-26 1 CALIFORNIA ENERGY COMI NR (Pag
STATE OF CALIFORNIA  Domestic Wate  CERTIFICATE OF COMPLI  Project Name: SABOR PI	ANCE RI PIRI TENANT AVENUE SUITE &  VATER DISTR ation All Occu  For system  Pipi pen Insu Pipi Insu Pipi	System  IMPROVEMENT BO4 NATIONAL CIT  RIBUTION SYST  Ipancies s serving dwelling that penetrate metal fraulation shall abund in ginstalled in in ulation Installation	ry CA 91950  TEM  Temporary can be a seen as a seed as a seed a s	Report Page: Date Prepared:  the minimum insulation required to have pipe insulation required required to have pipe insulation required	rements in Table 160.4-A (see blown for the distance of the framing pertential to assure that no contact is	enetration. Piping that made with the metal fram
Domestic Water CERTIFICATE OF COMPLI Project Name: SABOR PI 800 B /	For system Pipi Insu Pipi For system Pipi Pipi Insu	System  IMPROVEMENT BO4 NATIONAL CIT  RIBUTION SYST  Ipancies  Is serving dwelling that penetral etrates metal frailation shall abuse in ginstalled in in allation Installation graphics in the serving nonressirculating system first 8 ft of hot are sthat are exter	ry CA 91950  TEM  Ing units, pipe insulation must meet tes framing members shall not be reaming shall use grommets, plugs, wit securely against all framing member or exterior walls shall not be on (QII) as specified in the Reference with a minimum of 1 inch of wall instance.  Is sidential spaces, pipe insulation for an piping, including supply and return and cold outlet piping, including be nally heated	Report Page: Date Prepared:  the minimum insulation requirequired to have pipe insulation requirers energy and the Residential Appendix RA3.5. sulation, 2 inches of crawlspace the following applications is springing of the water heater etween storage tank and heat to	rements in Table 160.4-A (see blown for the distance of the framing potential to assure that no contact is on if all of the requirements are me insulation, or 4 inches of attic inspecified to comply with Table 120.3 rap, for a nonrecirculating storage	Compliance ID: 115932-062 port Generated: 2023-06-26 1  CALIFORNIA ENERGY COMP  NR  (Page 2023-06-26T17:56:  w) except: enetration. Piping that made with the metal frammet for compliance with Quisulation, shall not be requised. 3-A (see below) per 120.3
Domestic Water CERTIFICATE OF COMPLI Project Name: SABOR PI 800 B // G. DOMESTIC HOT V Mandatory Pipe Insul	For system Pipi Insulation she installed	System  IMPROVEMENT BO4 NATIONAL CIT  RIBUTION SYST  Ipancies  Is serving dwelling that penetrate etrates metal from the penetrate etrates etrated in the penetrate etrates etrated etrates etr	ry CA 91950  TEM  Temporary (CA 91950)  Temp	Report Page: Date Prepared:  the minimum insulation requirequired to have pipe insulation vrapping or other insulating matter see Residential Appendix RA3.5. sulation, 2 inches of crawlspace the following applications is spring piping of the water heater etween storage tank and heat the to sunlight, moisture, equipment of the sunlight of the sunli	rements in Table 160.4-A (see blown for the distance of the framing penterial to assure that no contact is on if all of the requirements are mule insulation, or 4 inches of attic inspecified to comply with Table 120.3 rap, for a nonrecirculating storage lent maintenance, and wind. Insulations	Compliance ID: 115932-062 port Generated: 2023-06-26 1  CALIFORNIA ENERGY COMP  NR  (Page 2023-06-26T17:56: port Generation of the properties of the propert

105-140

0.22 - 0.28

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

2.0 in or R-16

Documentation Software: Energy Code Ace

Compliance ID: 115932-0623-0003

Report Generated: 2023-06-26 14:56:43

Minimum Insulation Required

1.5 in or R-11

1.0 in or R-7.7 | 1.5 in or R-12.5

Generated Date/Time:

Report Version: 2022.0.000

Schema Version: rev 20220101

DESCRIPTION

SABOR PIRI PIRI FENANT IMPROVEME





TITLE:

**PLUMBING** T-24 FORMS

JOB NO:B2306-AA123 DRAWN: CHECKED: SCALE:

DATE: 06.28.2023

STATE OF CALIFORNIA				
Domestic Water Heating System CALIFORNIA ENERGY COM				
CERTIFICATE OF COMPLIANCE		NRCC-PLB-E		
Project Name: SABOR PIRI PIRI TENANT IMPROVEMENT	Report Page:	(Page 5 of 7)		
800 B AVENUE SUITE 804 NATIONAL CITY CA 91950	Date Prepared:	2023-06-26T17:56:42-04:00		

800 B AVENUE SUITE 804 NATIONAL CITY CA 91950				91950 Date Prepared:	2023-06-26T17:56:42-04:00
DOMES	TIC HOT WA	TER CONTRO	LS		
			iance with cont .4(e) / 170.2(d)	rol requirements in 110.3 for all occupancies. For multifamily residential and hotel/motel occupanc	ies, compliance is also
	Yes	No	Not Applicable	Requirement	
01	×			Construction documents require manufacturer certification that service water-heating systems are temperature controls capable of adjusting temperature settings per 110.3(a).	equipped with automatic
02				Systems with capacity $>$ 167,000 BTUH equipped with outlet temperature controls per 110.3(c)1 u Plumbing Code 613.0.	nless covered by California
03				Controls for circulating pumps or electrical heat trace systems are capable of automatically turning <a href="mailto:\$110.3(c)2">§110.3(c)2</a> unless systems serves healthcare facility.	off the system per
04				For recirculation systems serving multiple dwelling units, design includes automatic pump controls additions.	per 170.2(d) or 180.1(b)3 for
05				For recirculation systems serving individual dwelling units, design includes manual on/off controls Appendix RA4.4.9 per 170.2(d).	as specified in Reference
06			×	<ul> <li>Combustion air positive shut-off shall be provided per 160.4(3).on all newly installed commercial k</li> <li>Boilers with input capacity &gt;= 2.5 MMBtu/h, in which the boiler is designed to operate with pressure</li> <li>Boilers where one stack serves two or more boilers with a total combined input capacity per personal capacity personal capacity per per personal capacity per personal capacity per per per per per per per per per per</li></ul>	a nonpositive vent static
07			×	Boiler combustion air fans with motor >= 10 hp shall meet one of the following  The fan motor shall be driven by a variable speed drive OR  The fan motor shall include controls that limit the fan motor demand to <=30% of the total design air volume.	design wattage at 50% of the
08			×	Newly installed boilers with an input capacity {d:gte/] 5MMBtu/h and a steady state full-load commaintain excess (stack-gas) oxygen concentrations <= 5% by volume on a dry basis over firing rates volume shall be controlled with respect to firing rate or flue gas oxygen concentration. Use of a cocontrol linkage or jack shaft is prohibited.	of 20-100%. Combustion air

	Generated Date/Time:	Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance	Report Version: 2022.0.000 Schema Version: rev 20220101	Compliance ID: 115932-0623-0003 Report Generated: 2023-06-26 14:56:43

	CALIFORNIA ENERGY COMMISSION
	NRCC-PLB-E
Report Page:	(Page 6 of 7)
Date Prepared:	2023-06-26T17:56:42-04:00

	ocuments must be provided to the building inspector during construction and can be found online
	Form/Title
NRCI-PLB-E - Must be submi	ted for all buildings
J. DECLARATION OF REQU	IRED CERTIFICATES OF ACCEPTANCE
There are no forms required	for this project.

	Generated Date/Time:	Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance	Report Version: 2022.0.000	Compliance ID: 115932-0623-0003
	Schema Version: rev 20220101	Report Generated: 2023-06-26 14:56:43

CERTIFICATI	OF COMPLIANCE		NRCC-PLI
Project Nan	ne: SABOR PIRI PIRI TENANT IMPROVEMENT	Report Page:	(Page 7 of
Project Add	ress: 800 B AVENUE SUITE 804 NATIONAL CITY CA 91950	Date Prepared:	2023-06-26T17:56:42-04
DOCUME	NTATION AUTHOR'S DECLARATION STATEMENT		
l certify th	nat this Certificate of Compliance documentation is accurate	and complete.	
Documentation	on Author Name:	Documentation Author Signature:	· · · · · · · · · · · · · · · · · · ·
RAMIL BAT	IANCILA		6 Battimb
Company:		Signature Date:	.25.2023
www.mren	gcon.com		
Address:	39210 STATE ST. STE 106	CEA/ HERS Certification Identification (if applicable	:
City/State/Zip	: FREMONT, CA 94538	Phone: 510-449-4862	
2. I a s o o o o o o o o o o o o o o o o o o	he information provided on this Certificate of Compliance is true and correct. am eligible under Division 3 of the Business and Professions Code to accept respons he energy features and performance specifications, materials, components, and mai f Title 24, Part 1 and Part 6 of the California Code of Regulations. he building design features or system design features identified on this Certificate of lans and specifications submitted to the enforcement agency for approval with this lawill ensure that a completed signed copy of this Certificate of Compliance shall be managed to the completed signed copy of this Certificate of Compliance.	nufactured devices for the building design or system design identified f Compliance are consistent with the information provided on other albuilding permit application. hade available with the building permit(s) issued for the building, and	on this Certificate of Compliance conform to the requirement oplicable compliance documents, worksheets, calculations, made available to the enforcement agency for all applicable
Doenonsible F	Pesigner Name: LEVI F. MALABUYO	Responsible Designer Signature:	Mulahmy
responsible t	MR ENGINEERING CONSULTANTS, INC.	Date Signed:	Ő6.25.2Ó23
Company:	2.1.0.1.12.1.1.1.0 00.1.0.0 1.1.1.0, 1.1.0.1		
<u> </u>	39210 STATE ST. STE 106	License:	M26141

Generated Date/Time:

Report Version: 2022.0.000 Schema Version: rev 20220101

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Documentation Software: Energy Code Ace

Compliance ID: 115932-0623-0003 Report Generated: 2023-06-26 14:56:43 SABOR PIRI PIRI
TENANT IMPROVEMENT
800 B AVENUE SUITE 804
NATIONAL CITY CA 91950



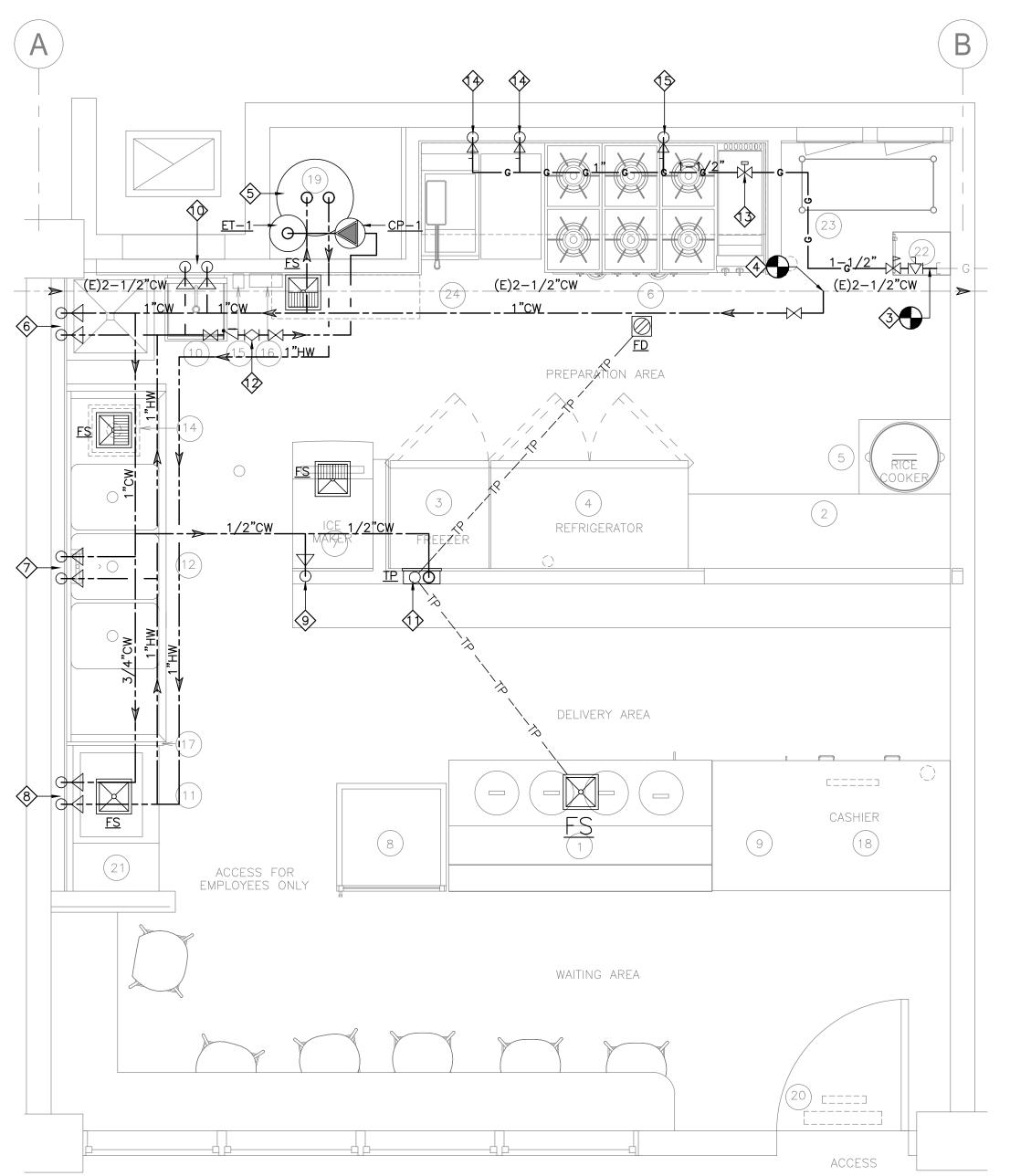


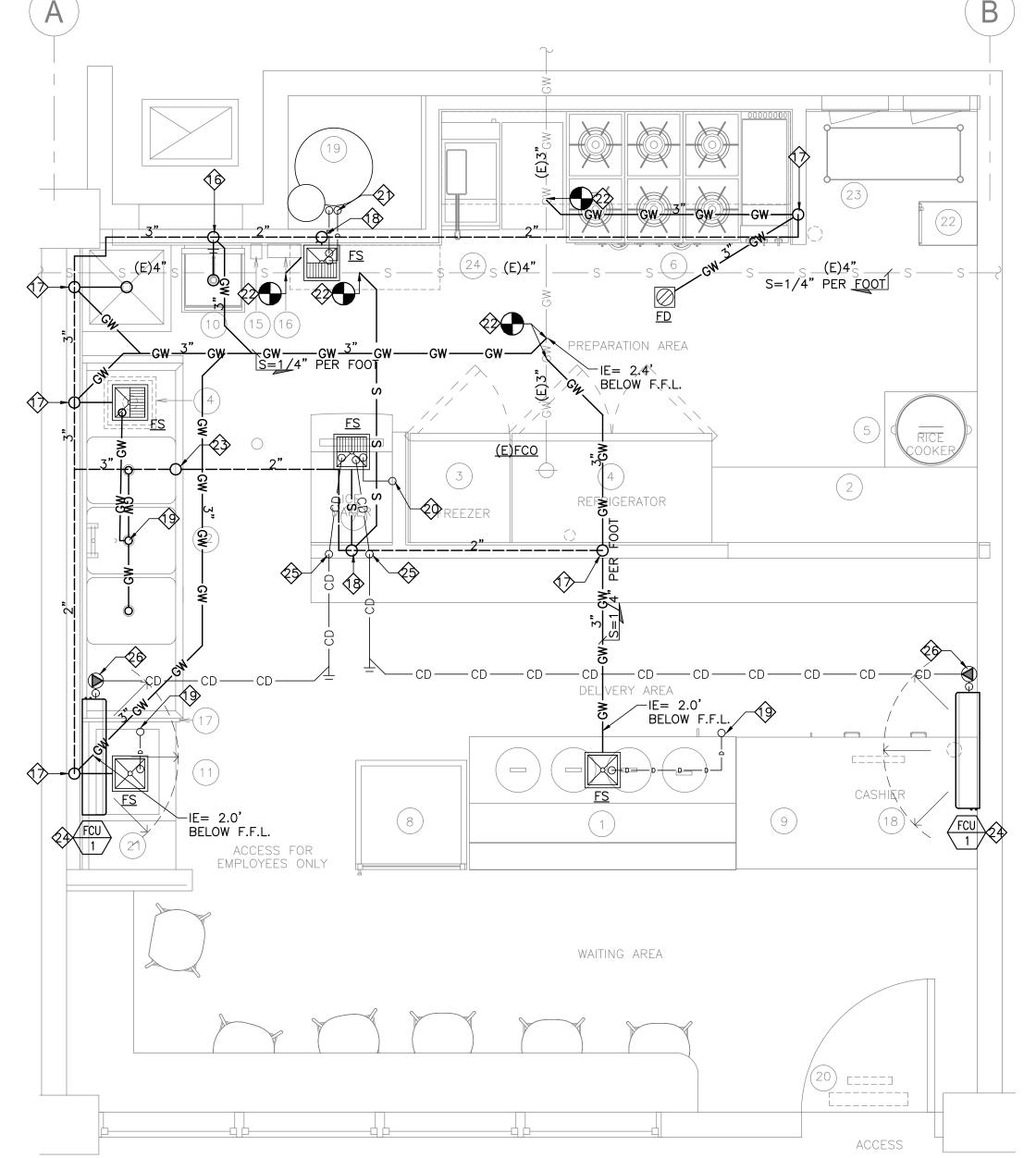
TITLE

PLUMBING T-24 FORMS

JOB NO:B2306-AA123
DRAWN: JP
CHECKED: CZ
SCALE: NONE
DATE: 06.28.2023

P0.4





### **GENERAL NOTES**

UNLESS OTHERWISE NOTED.

- A. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION OF ALL PIPING AND UTILITIES PRIOR TO START OF WORK. IN THE EVENT OF ANY DISCREPANCIES OR POTENTIAL CONFLICTS, NOTIFY THE ARCHITECT AND ENGINEER IN WRITING PRIOR TO START OF WORK.
- B. ALL PIPING LOCATIONS ARE DIAGRAMMATIC. CONTRACTOR SHALL COORDINATE WITH ALL TRADES AND OWNER'S REPRESENTATIVE AND
- C. PIPE PENETRATIONS OF FIRE RATED WALL, FLOOR & CEILING SHALL BE PROTECTED AS PER CBC 714.3.

VERIFY EXACT ROUTING PRIOR TO START OF WORK.

- D. HOT WATER PIPING SHALL BE INSULATED AND IN COMPLIANCE WITH
- CEC TABLE 120.3-A. E. DOMESTIC WATER PIPING SHALL BE AT CEILING SPACE OR HIGH LEVEL.
- F. INSTALL ASSE 1010 COMPLIANT WATER HAMMER ARRESTERS ON LOCATIONS INDICATED IN LAYOUT.
- G. CONTRACTOR SHALL AVOID RUNNING PLUMBING PIPING ABOVE ELECTRICAL EQUIPMENT.
- H. CONTRACTOR SHALL VERIFY THAT WORK SHALL NOT CONFLICT WITH ANY EXISTING STRUCTURAL, UTILITY, OR UNDER-SLAB CONDITION USING NONDESTRUCTIVE VÉRIFICATION (GROUND PENETRATION RADAR, X-RAY, ETC) SUBSEQUENTLY, PENETRATION LOCATIONS MUST BE REVIEWED AND APPROVED BY LANDLORD PRIOR TO WORK.
- DEMOLISH AND REMOVE ALL UNUSED PIPING UNLESS OTHERWISE NOTED. COORDINATED WITH GENERAL CONTRACTOR FOR PATCHING WALL, CEILING OR ROOF AS NEEDED
- J. NO PLUMBING PIPING SHALL BE CONCEALED AND VISIBLE AT GLAZING.
- K. INSTALL ALL FLOOR SINKS ACCESSIBLE FOR CLEANING AND NOT TO CAUSE TRIP HAZARD (UNDER SINKS OR HALF EXPOSED).
- L. FLOOR SINKS SHALL BE ACCESSIBLE FOR CLEANING AND INSTALLED FLUSH WITH FINISHED FLOOR.
- M. CONTRACTOR SHALL AVOID RUNNING PLUMBING PIPING ABOVE ELECTRICAL EQUIPMENT.
- N. PLUMBING CONTRACTOR TO PROVIDE ISOLATION VALVES ON ALL HOT AND COLD WATER PIPING CONNECTIONS SERVING THE PLUMBING FIXTURES.
- O. EXISTING CONDITION ARE BASED ON LIMITED FIELD VERIFICATIONS. THE CONTRACTOR SHALL ADJUST TO ACTUAL FIELD CONDITIONS AT NO ADDITIONAL EXPENSE TO THE PROJECT. NO ADDITIONAL COMPENSATION WILL BE PROVIDED FOR ANY EXTRAS DUE TO CONTRACTOR'S FAILURE TO VISIT THE PROJECT SITE & PREDETERMINATION OF EXISTING CONDITIONS PRIOR TO SUBMITTING THE BID. ANY DISCREPANCIES SHALL BE IMMEDIATELY REPORTED TO THE ARCHITECT/OWNER/ENGINEER FOR
- ALL HOT AND COLD WATER PIPING SERVING PLUMBING FIXTURES & EQUIPMENT SHALL BE PROVIDED WITH BRANCH SHUT-OFF VALVES.
- VENT THRU ROOF PIPE. PROVIDE 10 FEET MINIMUM AWAY FROM ANY AIR INTAKE INTO THE BUILDING OR OPENING WINDOW/ROOF ACCESS INTO THE BUILDING.

### PLUMBING WATER AND GAS LAYOUT

### SHEET KEYNOTES

- (1) EXISTING HYDROMECHANICAL GREASE INTERCEPTOR (100 GPM; 1751 GREASE CAPACITY). CONTRACTOR SHALL VERIFY AT SITE.
- 2 NEW GAS METER WITH (465 CFH CAPACITY) @ 5 PSI GAS INLET PRESSURE TO BE CONNECTED TO EXISTING 1/2" MAIN GAS PIPE. GAS METER SHALL BE PROTECTED AGAINST OVER PRESSURE, BACK PRESSURE AND VACUUM.SEC. 1208.7.3, 2022 CALIFORNIA PLUMBING CODE.
- (N)1-1/2"G PIPE TO BE CONNECTED TO EXISTING 1/2" GAS PIPE STUB-OUT. PROVIDE PRESSURE REGULATOR SET TO .25 PSI DISCHARGE PRESSURE. CONTRACTOR SHALL VERIFY THE POINT OF CONNECTION AT SITE.
- (N)1"CW PIPE TO BE CONNECTED TO EXISTING 2-1/2"CW MAIN PIPE, CONTRACTOR TO VERIFY THE POINT OF CONNECTION.
- (5) SUPPLY AND INSTALL NEW ELECTRIC STORAGE TO BE MOUNTED ON CONCRETE PLATFORM AT 48" HIGH FROM FINISHED FLOOR. COMPLETE WITH EXPANSION TANK, RE-CIRCULATION PUMP AND ALL NECESSARY ACCESSORIES, VALVES AND FITTINGS. SUPPORT AND BRACING SHALL BE IN ACCORDANCE WITH CPC 2022, 507.0 AND STRUCTURAL ENGINEER'S REQUIREMENT. PIPE ROUGH-IN SHALL BE:
  - 1" COLD WATER PIPE
  - 1" HOT WATER PIPE
  - 3/4" HOT WATER RETURN PIPE
- 6 3/4"CW AND 3/4"HW PIPES RUN THROUGH WALL WITH ISOLATION VALVE. INSTALL FAUCET WITH INTEGRAL ASSE 1001 COMPLIANT VACUUM BREAKER.
- (7) 1"CW AND 1"HW SUPPLY PIPES RUN THROUGH WALL WITH ISOLATION VALVE.
- (8) 3/4"CW AND 3/4"HW SUPPLY PIPES RUN THROUGH WALL WITH ISOLATION VALVE.

- (9) 1/2"CW SUPPLY PIPE RUN THROUGH WALL WITH ISOLATION VALVE FOR ICE MAKER. SHALL HAVE BUILT IN BACKFLOW PREVENTER. INSTALL SUITABLE WATER FILTER AS RECOMMENDED BY THE MANUFACTURER.
- 3/4"CW AND 3/4"HW PIPES RUN THROUGH WALL WITH ISOLATION VALVE. INSTALL ASSE 1070 COMPLIANT THERMOSTATIC MIXING VALVE.
- TRAP PRIMER PROTECTION FOR FLOOR DRAIN AND INDIRECT RECEPTOR. SUPPLY PIPE SHALL BE HARD DRAWN CONTINUOUS SLOPE. PROVIDE WITH MULTIPLE DISTRIBUTION UNIT (IF APPLICABLE). PROVIDE WITH APPROVED ACCESS PANEL.
- (2) 3/4" HOT WATER RETURN WITH CIRCUIT SETTER/BALANCING VALVE. TO BE CALIBRATED BY CONTRACTOR AT SITE. CIRCUIT SETTER SET TO 1.0 GPM, SIMILAR TO WATTS LFCSM-61-S OR EQUAL APPROVED.
- AUTOMATIC GAS SHUT OFF VALVE, SIGNAL FROM HOOD ANSUL SYSTEM WILL SHUT OFF GAS SUPPLY.
- (4) 3/4"GAS PIPE RUN IN WALL WITH ISOLATION VALVE AND DRIP LEG FOR FRYER.

(5) 1-1/4"GAS PIPE RUN IN WALL WITH ISOLATION VALVE AND DRIP

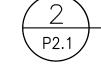
LEG FOR GAS BURNER. (6) 2" VERTICAL GREASE WASTE PIPE WITH A CLEANOUT RUNS

THROUGH THE WALL AND CONNECTS TO A 1-1/2" VENT

EXTENDING UP TO THE CEILING. ⟨↑⟩ 3" GREASE WASTE PIPE RUNS BELOW THE FLOOR SLAB AND CONNECTS TO A 2" VENT RUNNING THROUGH THE WALL,

EXTENDING UP TO THE CEILING.

3" WASTE PIPE RUNS BELOW THE FLOOR SLAB AND CONNECTS TO A 2" VENT RUNNING THROUGH THE WALL, EXTENDING UP TO THE CEILING.



SINK TO VIA APPROVED AIR GAP.

### PLUMBING SEWER AND VENT LAYOUT

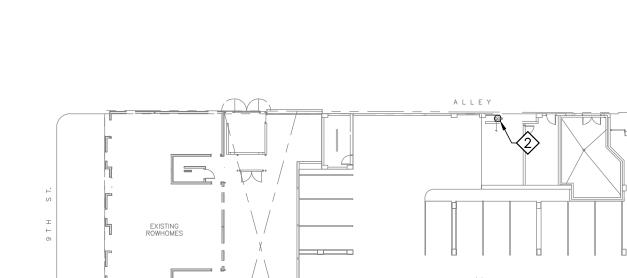
DISCHARGE INDIRECTLY TO FLOOR SINK VIA APPROVED AIR GAP. (2) ICE MAKER SHALL INDIRECTLY DISCHARGE TO FLOOR SINK VIA

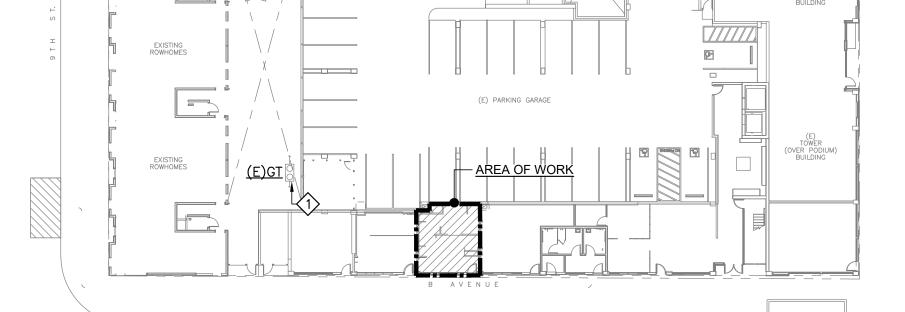
9 PREP. SINK, 3-COMP. SINK, AND HOT FOOD STATION TO

- APPROVED AIR GAP. ♦ WATER HEATER'S TEMPERATURE AND PRESSURE (T&P) DRAIN SHOULD BE CONFIGURED TO INDIRECTLY DISCHARGE TO FLOOR
- NEW WASTE PIPE TO BE CONNECTED TO EXISTING SOIL / GREASE WASTE PIPE STUB-OUTS. BEFORE PROCEEDING WITH NEW WASTE PIPE LAYOUT, CONTRACTOR SHALL EXCAVATE EXISTING WASTE PIPE AT IDENTIFY POINT OF NEW CONNECTION AND VERIFY IF EXISTING SOIL AND GREASE WASTE PIPE DEPTH AND SIZE IS ADEQUATE TO ACCOMMODATE NEW WASTE PIPE CONNECTION. CONTRACTOR SHALL PROVIDE INFORMATION ABOUT ANY INVERT ELEVATION PROBLEM
- 3" VENT PIPE TO BE CONNECTED TO EXISTING VENT AT CEILING SPACE. CONTRACTOR TO VERIFY THE POINT OF CONNECTION.

THAT MAY ARISE BEFORE PROCEEDING WITH NEW WORK.

- (4) INDICATIVE PROFILE OF MECHANICAL MAKE-UP AIR UNITS AND FCU. SEE MECHANICAL DRAWINGS FOR DETAILS.
- 3/4" CONDENSATE DRAIN PIPING FROM FAN COIL UNIT DOWN THRU WALL AND DISCHARGE INDIRECTLY TO FLOOR SINK.
- SUPPLY AND INSTALL CONDENSATE PUMP (ASPEN ASP-MLOEM OR APPROVED EQUAL) BELOW FCU DRAIN LINE TO RECEIVE CONDENSATE DRAIN BY GRAVITY. TO BE INSTALLED IN WALL. PROVIDE ACCESS PANEL.





SITE PLAN

DESCRIPTION

SABOR PIRI PIRI NANT IMPROVEMEI 804 950 SUITE CA 91 B AVENUE IONAL CITY



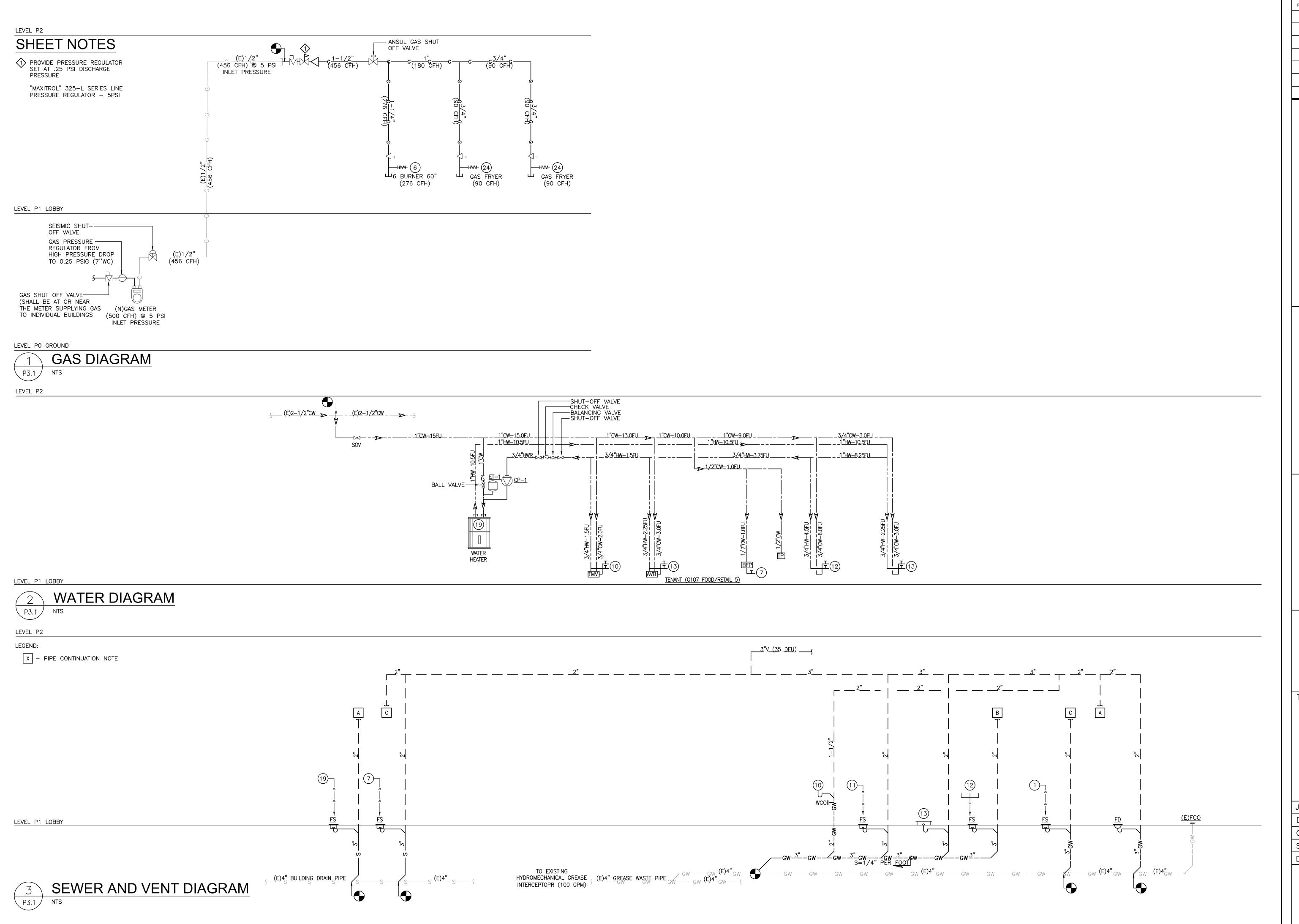


TITLE:

**PLUMBING** LAYOUT

JOB NO:B2306-AA123 DRAWN:

CHECKED: SCALE: AS SHOWN DATE: 06.28.2023



RLV DESCRITION DATE

SABOR PIRI PIRI
ENANT IMPROVEMENT
800 B AVENUE SUITE 804
NATIONAL CITY CA 91950





TITLE:

PLUMBING SCHEMATIC DIAGRAM

JOB NO:B2306-AA123

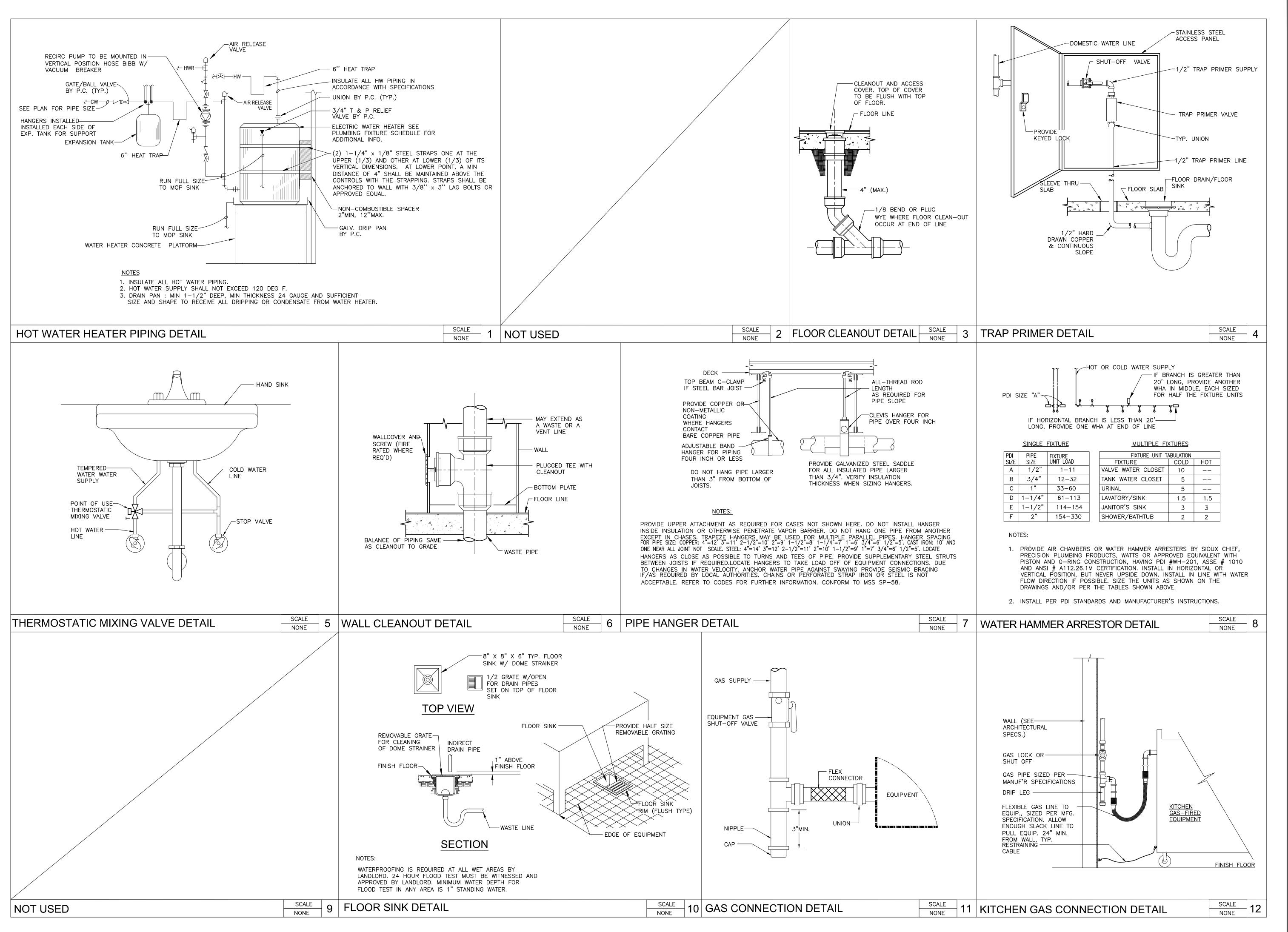
DRAWN: JP

CHECKED: CZ

SCALE: NONE

DATE: 06.28.2023

P3.1



REV DESCRIPTION DATE

SABOR PIRI PIRI
ENANT IMPROVEMENT
800 B AVENUE SUITE 804
NATIONAL CITY CA 91950





TITLE:

PLUMBING DETAILS

JOB NO:B2306-AA123
DRAWN: JP
CHECKED: CZ
SCALE: NONE
DATE: 06.28.2023

P4\_1

### THROUGH-PENETRATION FIRESTOP SYSTEM

ASSEMBLY USAGE DISCLAIMER

XHEZ - THROUGH-PENETRATION FIRESTOP SYSTEMS

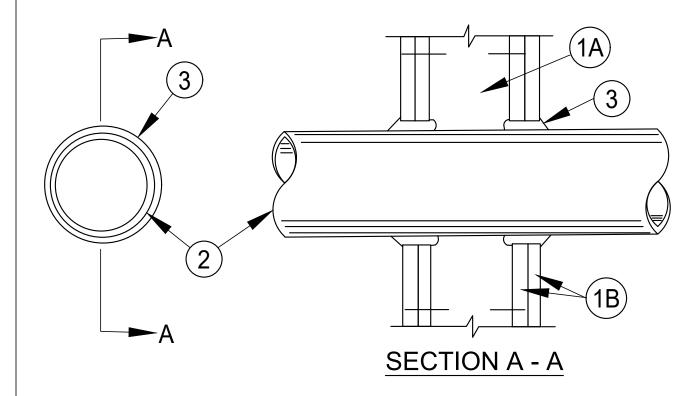
JUNE 15, 2005

RATING AT AMBIENT — LESS THAN 1 CFM/SQ FT L

RATING AT 400 F — LESS THAN 1 CFM/SQ FT

SEE GENERAL INFORMATION FOR THROUGH-PENETRATION FIRESTOP SYSTEMS SYSTEM NO. W-L-1001

F RATINGS -1, 2, 3 AND 4 HR (SEE ITEMS 2 AND 3) T RATINGS -0, 1, 2, 3, AND 4 HR (SEE ITEM 3) L



1. WALL ASSEMBLY — THE 1, 2, 3 OR 4 HR FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300 OR U400 SERIES WALL OR PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:

A. STUDS — WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS (MAX 2 H FIRE RATED ASSEMBLIES) OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. (51 BY 102 MM) LUMBER SPACED 16 IN. (406 MM)OC WITH NOM 2 BY 4 IN. (51 BY 102 MM) LUMBER END PLATES AND CROSS BRACES. STEEL STUDS TO BE MIN 3-5/8 IN. (92 MM) WIDE BY 1-3/8 IN. (35 MM) DEEP CHANNELS SPACED MAX 24 IN. (610 MM) OC.

B. GYPSUM BOARD\* — NOM 1/2 OR 5/8 IN. (13 OR 16 MM) THICK, 4 FT. (122 CM) WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM WALLBOARD TYPE. THÍCKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAX DIAM OF OPENING IS 26 IN. (660 MM).

2. THROUGH-PENETRANT — ONE METALLIC PIPE, CONDUIT OR TUBING INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE BETWEEN PIPE, CONDUIT OR TUBING AND PERIPHERY OF OPENING SHALL BE MIN OF 0 IN / (0 MM). (POINT CONTACT) TO MAX 2 IN. (51 MM) PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE

A. STEEL PIPE - NOM 24 IN. (610 MM) DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.

B. IRON PIPE - NOM 24 IN. (610 MM) DIAM (OR SMALLER) SERVICE WEIGHT (OR HEAVIER) CAST IRON SOIL PIPE, NOM 12 IN (305 MM) DIAM (OR SMALLER) OR CLASS 50 (OR HEAVIER) DUCTILE IRON PRESSURE PIPE.

C. CONDUIT — NOM 6 IN. (152 MM) DIAM (OR SMALLER) STEEL CONDUIT OR NOM 4 IN (102 MM) DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING D. COPPER TUBING — NOM 6 IN. (152 MM) DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING

E. COPPER PIPE — NOM 6 IN. (152 MM) DIAM (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.

F. THROUGH PENETRATING PRODUCT\* — FLEXIBLE METAL PIPING THE FOLLOWING TYPES OF STEEL FLEXIBLE METAL GAS PIPING MAY BE USED:

NOM 2 IN. (51 MM) DIAM (OR SMALLER) STEEL FLEXIBLE METAL GAS PIPING. PLASTIC COVERING ON PIPING MAY OR MAY NOT BE REMOVED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. OMEGA FLEX INC

NOM 1 IN. (25 MM) DIAM (OR SMALLER) STEEL FLEXIBLE METAL GAS PIPING. PLASTIC COVERING ON PIPING MAY OR MAY NOT BE REMOVED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. GASTITE, DIV OF TITEFLEX

NOM 1 IN. (25 MM) DIAM (OR SMALLER) STEEL FLEXIBLE METAL GAS PIPING. PLASTIC COVERING ON PIPING MAY OR MAY NOT BE REMOVED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. WARD MFG L L C

3. FILL, VOID OR CAVITY MATERIAL\* — CAULK OR SEALANT — MIN 5/8., 1-1/4,1-7/8 AND 2-1/2 IN. (16, 32, 48 AND 64 MM) THICKNESS OF CAULK FOR 1, 2, 3 AND 4 HR RATED ASSEMBLIES, RESPECTIVELY, APPLIED WITHIN ANNULUS, FLUSH WITH BOTH SURFACES OF WALL. MIN 1/4 IN. (6 MM) DIAM BEAD OF CAULK APPLIED TO GYPSUM BOARD/PENETRANT INTERFACE AT POINT CONTACT LOCATION ON BOTH SIDES OF WALL. THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS SHOWN IN THE FOLL OWING TABLE. THE HOURLY T RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE TYPE OR SIZE OF THE PIPE OR CONDUIT AND THE HOURLY FIRE

RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS TABULATED BELOW:

Max Pipe or Conduit Diam In (mm)	F Rating Hr	T Rating Hr
(25)	1 or 2	0+, 1 or 2
(25)	3 or 4	3 or 4
(102)	1 or 2	0
(152)	3 or 4	0
2 (305)	1 or 2	0

+WHEN COPPER PIPE IS USED, T RATING IS 0 H. 3M COMPANY - CP 25WB+ OR FB-3000 WT.

1. MIN. FLOOR OR WALL: 4-1/2" THICK CONCRETE. MAX. DIA. OF OPENING IS 22-1/2"

1A. OPTIONAL STEEL SLEEVE. MAXIMUM 12" DIA. MAX. 20" STEEL PIPE, 6" COPPER TUBE, OR 4" CAST IRON PIPE. MAX. ANNULAR SPACE BETWEEN PIPE AND OPENING NOT TO EXCEED 2-1/2". MIN. SPACE IS 0".

3. PACKING MATERIAL, POLYETHYLENE BACKER ROD OR 1" THICK TIGHTLY 3. PACKING MATERIAL. POLYETHYLENE BACKER ROD OR 1" THICK TIGHTLY
PACKED CERAMIC (ALUMINA SILICA) FIBER BLANKET, MINERAL WOOL BATT
OR FIBER GLASS INSULATION.
PACKING MATERIAL TO BE RECESSED AS REQUIRED TO ACCOMODATE
FOR THE THICKNESS OF THE CAULK FILL MATERIAL.
AS AN ALTERNATE WHEN MAX. PIPE SIZE IS 10" AND MAX. ANNULAR
SPACE IS 1", A MIN. 1" THICK TIGHTLY PACKED CERAMIC FIBER BLANKET
OR MINERAL WOOL BATT MAY BE USED, AND SHOULD BE RECESSED 1/2" MIN.
FROM BOTTOM SIDE OF FLOOR OR BOTH SIDES OF CONCRETE WALL.

4. FILL, VOID OR CAVITY MATERIAL -\*CALK--CAULK FILL MATERIAL INSTALLED TO COMPLETELY FILL ANNULAR SPACE TO THE MIN. THICKNESS SHOWN IN THE FOLOWING TABLE.

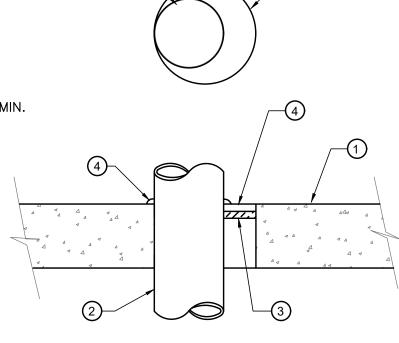
MAX. PIPE DIAMETER	MAXIMUM ANNULAR SPACE	PACKING MAT'L TYPE(a)	MIN. CAULK THICKNESS
10"	1"	BR, CF, GF OR MW	1/2"(b)
10"	1"	CF OR MW	1/2"(c)
20"	2-1/2"	BR, CF, GF OR MW	1"(b)

(a) BR=POLYETHYLENE BACKER ROD. CF=CERAMIC FIBER BLANKET. GF=GLASS FIBER INSULATION. MW=MINERAL WOOL BATT.

(b) CAULK INSTALLED FLUSH WITH TOP SURFACE OF FLOOR OR BOTH SURFACES OF CONCRETE WALL.

(c) CAULK INSTALLED FLUSH WITH BOTTOM SURFACE OF FLOOR OR ONE SURFACE OF CONCRETE WALL.

MINNESOTA MINING & MFG. CO.——TYPE CP 25N/S(ULISTED F—A—5016)
\* BEARING THE UL CLASSIFICATION MARKING. REFER TO SCHEDULE 9, THIS SHEET



"F" RATING---3HOUR. T" RATING———O HOUR.

FIRESTOP PENETRATIONS DETAIL

NONE

1 NON-INSULATED PENETRATION (CONCRETE FLOOR)

SCALE NONE



표 91

SUI

SABOR PIRI I

DESCRIPTION



**PLUMBING DETAILS** 

JOB NO:B2306-AA123 CHECKED: SCALE: DATE: 06.28.2023