

**CONTACT ENVIRONMENTAL HEALTH PLAN
REVIEW AT (916) 874-6010 FOR
INSPECTIONS PRIOR TO OPENING.**

SARTORI KITCHEN

Date: 1/7/2021

APPROVED

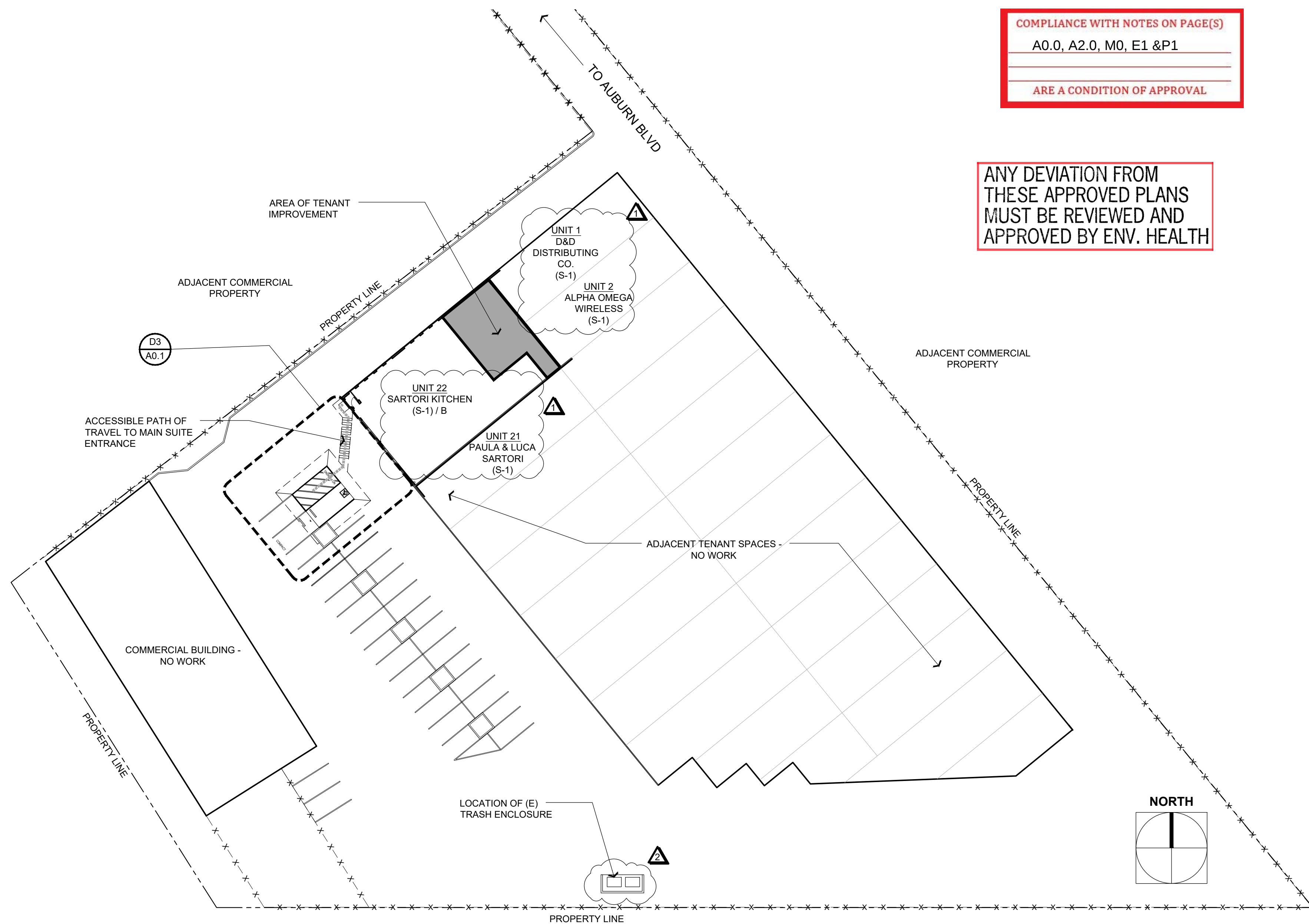
Sacramento County
Environmental Health Division

By: Manroop Shergill

A0.0, A2.0, M0, E1 & P1

ARE A CONDITION OF APPROVAL

ANY DEVIATION FROM
THESE APPROVED PLANS
MUST BE REVIEWED AND
APPROVED BY ENV. HEALTH



SCALE: 1" = 30'-0"

P	PROPERTY LINE
&	AND
<	ANGLE
@	AT
£	CENTERLINE
Ø	DIAMETER
#	NUMBER
d	PENNY

ℙ	PROPERTY LINE
∠	AND
∠	ANGLE
@	AT
⊥	CENTERLINE
⌀	DIAMETER
#	NUMBER
¢	PENNY
A.B.	ANCHOR BOLT
ABV.	ABOVE
A/C	AIR CONDITIONING
AC	ASPHALTIC CONCRETE
ACCU.S.	ACCUS(TIONAL)
ADJ.	ADJUSTABLE
A.F.F.	ADJUST A FINISH
	FLOOR
AGG.	AGGREGATE
ALUM.	ALUMINUM
ANOD.	ANODIZED
APPROX.	APPROXIMATE
ASPH.	ASPHALTIC
AUTO.	AUTOMATIC
BD.	BOARD
BLDG.	BLOCKING
BL(K)G.	BLOCKING
BL.W.	BELOW
B.M.	BEAM
B.O.	BOTTOM
B.O.T.	BOTTOM OF OR
	BACK OF
BRK.	BREAK
B.U.R.	BUILT UP ROOF
CAB.	CABINET
CEM.	CEMENT

DTL	DETAIL	FLASH	FLASHING	I.D.	INSIDE DIAMETER
DW	DISHWASHER	FLEX.	FLEXIBLE	IN.	INCHES
DWG	DRAWING	FLR.	FLOOR	INF.	INFORMATION
		FLUOR.	FLUORESCENT	INST.	INSTALL
E	EXISTING	F.	FACE	INSUL.	INSULATION
E.A.	EACH	F.O.B.	FACE OF BRICK	INT.	INTERIOR
E.D.	ELECTRIC DRINKING FOUNTAIN	F.O.C.	FACE OF CONCRETE		
E.J.	EXPANSION JOINT	F.O.F.	FACE OF FINISH	JAN.	JANITOR
E.L.	ELEVATION	F.O.M.	FACE OF MASONRY	JST.	JOIST
ELEC	ELECTRICAL	F.O.SF.	FACE OF STORE- FRONT		
ELEV.	ELEVATOR	F.O.W.	FACE OF WALL	K.D.	KILN-DRIED
EMER.	EMERGENCY	F.P.	FIREPLACE	K.P.	KICK PLATE
ENCL.	ENCLOSURE	F.S.R.	FIRE SPRINKLER		
ENGR.	ENGINEER	RISE	RISE	LAB.	LABORATORY
EQ.	EQUAL	FT.	FOOT/FEET	LAM.	LAMINATE
EQT.	EQUIPMENT	FTG.	FOOTING	LAV.	LAVATORY
EXP.	EXHAUST	FURR.	FURRING	L.H.	LEFT HAND
EXH.	EXPOSED			L.V.	LOAD LIFE
EXT.	EXTERIOR	GA.	GAUGE	LIGHTING)	LOUVER
F	FIRE ALARM	GALV.	GALVANIZED	L.V.	LIFE LOAD
FAB.	FABRICATE	G.B.	GRAB BAR	L.T.G.	LOAD TRUCK
F.A.U.	FORCED AIR UNIT	G.D.	GARBAGE DISPOSAL	LVR.	LOUVER
F.B.I.	FURNISHED BY	G.L.	GLASS/GLAZING	M.A.	MASONRY ANCHOR
	OTHERS	GLU-LAM	GLUE-LAMINATED	MAS.	MATERIAL
F.D.	FIRE DRAIN	G.W.B.	Gypsum WALLBOARD	M.AX.	MAXIMUM
F.F.	FIRE EXTINGUISHER	H.B.	HOSE BIBB	M.B.	MACHINE BOLT
F.F.C.	FIRE EXTINGUISHER CABINET	H.C.	HOLLOW CORE	M.D.	MODULUM DENSITY
F.F.I.	FINISH FLOOR	H.D.	HARDBOARD	MECH.	MECHANICAL
F.G.	FIXED GLASS	HR.	HEADER	MEMBRANE	MEMBRANE
F.H.	FIRE HYDRANT	H.W.	HARDWARE	MEZZ.	MEZZANINE
F.H.C.	FIRE HOSE CABINET	HORIZ.	HORIZONTAL	MFR.	MANUFACTURE(R)
F.H.S.	FLAT HEAD SCREW	HR.	HEAT	MIN.	MINIMUM
F.H.T.	FLAT HEAD TAP	H.H.	HIGH HEAT	MIR.	MIRROR
F.I.	FIXTURE	H.V.C.	HEATING, VENTILATING AND AIR	MISC.	MISCELLANEOUS
F.L.	FLUSH	CON.	CONVENTION	MIX.	MIXTURE
F.L.P.	FIBERGLASS	H.W.	HOT WATER	M.O.	MASONRY OPENING
	REINFORCED				

M.R.	MOISTURE RESISTANT	P.L.A.M.	PLASTIC LAMINATE
M.S.	MACHINE SCREW	PLAS.	PLASTER
M.T.	METAL THRESHOLD	PLWD.	PLYWOOD
M.T.D.	MOUNTED	P.M.	PRESSED METAL
M.T.L.	METAL	PORC.	PORCELAIN
M.U.	MULLION	PR	PAIR
		PREFAB.	PREFABRICATED
(N)	NEW	PRELIM.	PRELIMINARY
N.A.	NOT APPLICABLE	PROP.	PROPERTY
NAT.	NATURAL	P.S.F.	POUND PER SQUARE
N.I.	NOT IN CONTRACT		FOOT
N.O.	NUMBER	P.S.I.	POUND PER SQUARE
NOM.	NOMINAL		INCH
N.T.	NOT TO SCALE	PT.	POINT
		P.T.D.	PRESSURE TREATED
O/S	OVER	PTD.	PAINTED
OBS.	OBSCURE		
O.C.	ON CENTER	QTR.	QUARTER
O.D.	OUTSIDE DIAMETER		
O.F.C.I.	OWNER FURNISHED CONTRACTOR	R.	RISER
	INSTALLED	RAD.	RADIUS
OFF.	OFFICE	R.D.	ROOF DRAIN
O.F.	OVERHEAD	REC.	RECESSED
OPNG.	OPENING	REC.T.	RECTANGULAR
O.P.	OPPOSITE	REF.	REFRIGERATOR
O.R.D.	OVERFLOW/ROOF DRAIN	REINF.	REINFORCING
		REQD.	REQUIRED
		RES.	RESILIENT
		RESN.	RESAWN
		RET.	RETURN
		REV.	REVISION
P.A.R.T.	PARTITION	R.H.	RIGHT HAND
P.C.B.	PROTECTION BOARD	RM.	ROOM
P.C.P.	PORTLAND CEMENT	RND.	RADIUS
	PLASTER		
P.D.F.	POWER DRIVEN	R.O.	ROUGH OPENING
	FASTENER	R.O.T.	RIGHT OF WAY
PER.	PERFORATED	RSN.	ROUGH SAWN
PERM.	PERMANENT	RT.	RIGHT
PERP.	PERPENDICULAR	RWD.	REDWOOD
		R.W.L.	RAIN WATER LEADER

S.B.	SPASH BLOCK	T.J.	TRUSS JOIST
S.C.	SOLID CORE	T.O.	TOP OF
S.C.D.	SEAT COVER	T.P.D.	TOILET PAPER
	DISPENSER		DISPENSER
S.D.	SOAP DISPENSER	TRANS.	TRANSOM
S.D.	SECTION	T	TILE-UP
S.F.	SQUARE FEET	T.V.	TELEVISION
S.H.R.	SHOWER	TYP.	TYPICAL
S.H.T.	SHEET		
S.H.T.G.	SHEETING		
SIM.	SIMILAR	U.B.C.	UNIFORM BUILDING
S.KLT.	SKELETAL	U.N.O.	UNLESS NOTED
SMACNA	SHEET METAL & A/C CONTRACTORS NAT'L ASSOC.	UR.	OTHERWISE
			URNAL
S.N.D.	SANITARY NAPKIN DISPENSER		
S.N.R.	SANITARY NAPKIN RECEPTACLE	V.B.	VAPOR BARRIER
S & R	SHELF AND RACK	VERT.	VERTICAL
S.P.	SPECIFICATION	VEST.	VESTIBULE
SPEC.	SPECIFICATION	VERTICAL GRAIN	VERTICAL GRAIN
S.S.	SERVICE	V.T.	VINYL TILE
S.T.	STAINLESS STEEL		
STAG.	STAGGERED	W.	WITH
S.T.C.	SOUND TRANSMISSION COEFFICIENT	W.C.	WATER CLOSET
		WOW.	WINDOW
STD.	STANDARD	W.GL.	WIRE GLASS
STL.	STEEL	W.H.	WATER HEATER
STR.	STORAGE	W.I.	WROUGHT IRON
STR.	STRUCTURAL	WO.	WITHOUT
SUBFLR.	SUBFLOOR	W.	WHERE OCCURS
SUSP.	SUSPENDED	W.P.	WATERPROOF
S.V.	SHEET VINYL	W.R.	WEDGE RECEPTACLE
		WOOD SCREW	WOOD SCREW
		WT	WEIGHT
T.	TREAD	W.W.F.	WELED WIRE FABRIC
T-24	CALIFORNIA TITLE-24		
T&B	TOP AND BOTTOM		
T.	TELEPHONE		
TEL.	TEMPERED		
T&Q	TEMPERED AND GROOVE	Y.	YARD
THRU.	THROUGH	Z.	ZINC

1. COMSTOCK JOHNSON ARCHITECTS INC. IS RESPONSIBLE FOR THE ARCHITECTURAL PORTION ONLY. THE FOLLOWING CONSULTANTS ARE UNDER SEPARATE CONTRACTS TO THE OWNER AND SHOULD BE CONTACTED DIRECTLY. THEIR PLANS ARE BOUND TOGETHER WITH THE ARCHITECTURAL & STRUCTURAL PLANS FOR THE CONVENIENCE OF THE OWNER DURING BIDDING AND CONSTRUCTION.
 - A. MECHANICAL, PLUMBING, ELECTRICAL;
OPTIMIZED ENERGY & FACILITIES CONSULTING
5734 LONETREE BLVD
ROCKLIN, CA 95765
PH: (916) 626-5518
2. VERIFY ALL BID INSTRUCTIONS WITH THE OWNER.
3. THE GENERAL CONTRACTOR AND HIS SUB-CONTRACTORS SHALL NOTIFY THE OWNER OF ANY ERRORS AND/OR OMISSIONS CONTAINED IN THE CONSTRUCTION DOCUMENTS PRIOR TO ORDERING MATERIALS AND/OR COMMENCING CONSTRUCTION.
4. GENERAL CONTRACTOR AND HIS SUB-CONTRACTORS WILL PROVIDE "RECORD SET" DRAWINGS OF ALL WORK.
5. REFER TO DRAWING SHEET A0.1 FOR ACCESSIBILITY DETAILS AND INFORMATION.
6. ALL (E) SURFACES DAMAGED OR DISTURBED BY THE NEW CONSTRUCTION SHALL BE PATCHED, REPAIRED, OR REPLACED IN KIND, U.N.O. TAKE ALL FINISHES TO NEAREST NATURAL BREAK POINT, TYP. THERE SHALL BE NO VISIBLE DIFFERENCE BETWEEN THE NEW WORK AND THE (E) CONDITIONS.
7. DAMAGE TO ANY ELEMENT OF THE (E) ADJACENT BUILDINGS OR SITE MUST BE CORRECTED BY THE CONTRACTOR TO THE OWNER'S SATISFACTION.

TENANT IMPROVEMENTS TO INCLUDE

- ACCESSIBILITY UPGRADES TO EXISTING ALL GENDER TOILET ROOM
- CONSTRUCTION OF NEW COMMERCIAL KITCHEN

SITE IMPROVEMENTS TO INCLUDE:

- ADDITION OF VAN ACCESSIBLE PARKING STALL
- PATH OF TRAVEL FROM THE NEW ACCESSIBLE PARKING STALL TO THE SUITE ENTRANCE

JOB SITE ADDRESS	5710 AUBURN BLVD, UNIT 22, SACRAMENTO, CA 95841
APN	220-0172-024-022
USE ZONE:	GC - GENERAL COMMERCIAL; AUBURN BLVD NORTH COMMERCIAL CORRIDOR PLAN AREA

EXISTING BUILDING	
BUILDING AREA	29,372 S.F.
YEAR BUILT:	1984
BUILDING HEIGHT	±20 FT (1 STORY)
BUILDING CODE	1982 UBC, UPC, UFC, UMC, UEC
TYPE OF CONSTRUCTION	III-B
OCCUPANCY GROUP & BUILDING USE	S-1 (WAREHOUSE)
SPRINKLERED	YES
SUITE 22 TOTAL AREA	± 3,695 S. F.

PROPOSED TENANT IMPROVEMENT

AREA OF IMPROVEMENTS	945 S.F.
OCCUPANCY GROUP	S-1 (WAREHOUSE) / B (COMMERCIAL KITCHEN)
BUILDING CODE	2019 CBC-BASED ON 2018 IBC; 2019 CPC, 2019 CMC, 2019 CEC, 2019 CA FIRE CODE; 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE, TIER 1; 2019 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R. TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS, 2019 CA ENERGY EFFICIENCY STANDARDS (AS AMENDED BY THE LOCAL JURISDICTION)

	NORTH SYMBOL		DETAIL REFERENCE, (DETAIL # ON TOP, SHEET # ON BOTTOM)
	DOOR NUMBER		BUILDING/ WALL SECTION, (SECTION # ON TOP, SHEET # ON BOTTOM)
	WINDOW TYPE		EXTERIOR ELEVATION, (ELEVATION # ON TOP, SHEET # ON BOTTOM)
	KEYNOTE		INTERIOR ELEVATION, ELEVATION # ON TOP, SHEET # ON BOTTOM)
	ELEVATION LINE, WORK OR DATUM POINT		DIMENSION POINT TO CENTERLINE OF OBJECT
	MATCH LINE, (SIDE CONSIDERED IS SHADED)		DIMENSION POINT TO FACE OF MATERIAL
	GRADE ELEVATION		SLOPE DIRECTION WITH PERCENTAGE RATE
	COLUMN REFERENCE		MAX. OCCUPANCY LOAD
	REVISION CLOUD WITH INDICATOR		OCC. LOAD AT POINT OF EXIT W/ EXIT DIRECTION

[illegible]

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graph TD
    A0[ARCHITECTURAL] --- A0.0[COVER SHEET & OVERALL SITE PLAN]
    A0 --- A0.1[ACCESSIBILITY DETAILS & PARTIAL SITE PLAN]
    A0 --- A0.2[CODE ANALYSIS]
    A0 --- A2.0[FLOOR PLANS: EXITING PLAN & OCCUPANT LOAD ANALYSIS]
    A0 --- A3.0[REFLECTED CEILING PLAN AND INTERIOR ELEVATIONS]
    A0 --- A4.0[DETAILS & EQUIPMENT SCHEDULE]
    
    S[STRUCTURAL] --- S1[PARTIAL ROOF FRAMING PLAN, NOTES AND DETAILS]
    S --- S2[ENLARGED ROOF PLAN, DETAILS]
    
    M[MECHANICAL] --- M0[MECHANICAL SCHEDULES & GENERAL NOTES]
    M --- M1[MECHANICAL PLAN]
    M --- M2[MECHANICAL DETAILS]
    M --- M3[MECHANICAL HOOD DRAWINGS]
    M --- M4[MECHANICAL HOOD DRAWINGS]
    M --- M5[MECHANICAL HOOD DRAWINGS]
    M --- M6[MECHANICAL HOOD DRAWINGS]
    
    P[PLUMBING] --- P0[PLUMBING SCHEDULES, DETAILS, CALCULATIONS & GENERAL]
    P --- P1[PLUMBING PLAN - FLOOR]
    
    E[ELECTRICAL] --- E0[ELECTRICAL SCHEDULES, ONE-LINE & GENERAL NOTES]
    E --- E1[ELECTRICAL PLAN]
    E --- E2[ELECTRICAL ROOF PLAN]
  
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ARCHITECTURAL

- A0.0 COVER SHEET & OVERALL SITE PLAN
- A0.1 ACCESSIBILITY DETAILS & PARTIAL SITE PLAN
- A0.2 CODE ANALYSIS
- A2.0 FLOOR PLANS: EXITING PLAN & OCCUPANT LOAD ANALYSIS
- A3.0 REFLECTED CEILING PLAN AND INTERIOR ELEVATIONS
- A4.0 DETAILS & EQUIPMENT SCHEDULE

STRUCTURAL

- S1 PARTIAL ROOF FRAMING PLAN, NOTES AND DETAILS
- S2 ENLARGED ROOF PLAN, DETAILS

MECHANICAL

- M0 MECHANICAL SCHEDULES & GENERAL NOTES
- M1 MECHANICAL PLAN
- M2 MECHANICAL DETAILS
- M3 MECHANICAL HOOD DRAWINGS
- M4 MECHANICAL HOOD DRAWINGS
- M5 MECHANICAL HOOD DRAWINGS
- M6 MECHANICAL HOOD DRAWINGS

PLUMBING

- P0 PLUMBING SCHEDULES, DETAILS, CALCULATIONS & GENERAL
- P1 PLUMBING PLAN - FLOOR

ELECTRICAL

- E0 ELECTRICAL SCHEDULES, ONE-LINE & GENERAL NOTES
- E1 ELECTRICAL PLAN
- E2 ELECTRICAL ROOF PLAN

APPROVALS & STAMPS



Comstock Johnson

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Mather, CA 9565
Phone: 916 362-630
Fax: 916 362-584

Daniel P. Eriksso
Architect

Kevin L. Wilco
Architect



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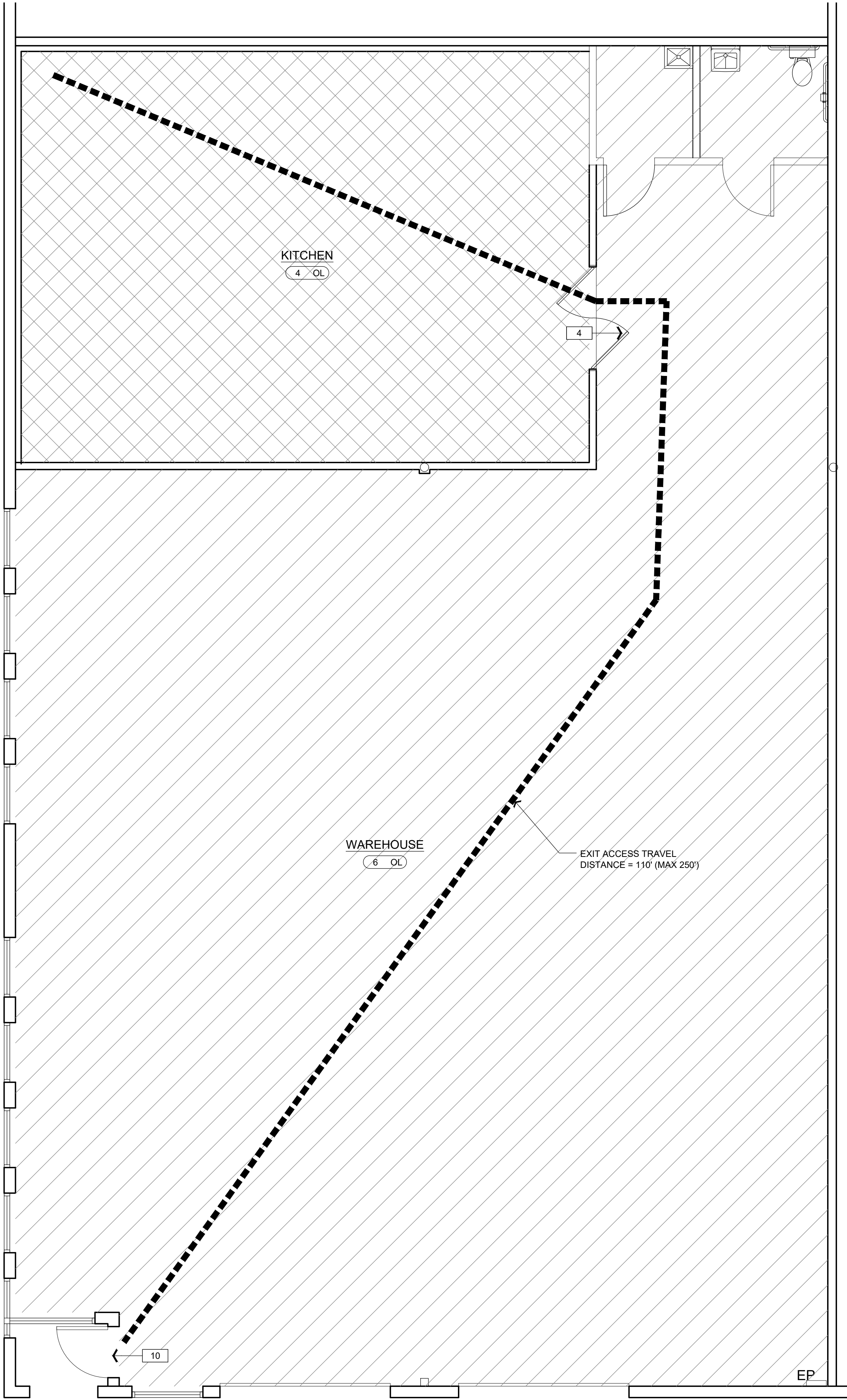
CONSTRUCTION DOCUMENTS FOR:
SARTORI KITCHEN
5710 AUBURN BLVD, UNIT 22
SACRAMENTO, CA
OWNER: LUCA SARTORI

REVISIONS

	DATE:	DESCRIPTION:
1	4-7-2020	FIRE COMMENT
2	6-3-20	PLAN CHECK 1

DATE	03.11.2
DRAWN	DPE/Y
JOB NO.	200
SHEET	A0.0 COVER SHEET
OF 5 SHEETS	





E5 **EXITING AND OCCUPANT LOAD PLAN**
SCALE: 1/4" = 1'-0"

PLUMBING CALCULATIONS

OCCUPANCY	TOTAL AREA	OCCUPANT LOAD FACTOR	OCCUPANT LOAD
COMMERCIAL KITCHEN - GROUP B	804 SF	1/200	4
WAREHOUSE - GROUP S-1	2,876 SF	1/5000	1
TOTAL OL:			5
MEN:			3
WOMEN:			3

TENANT SUITE IS B / S-1 OCCUPANCY (PER 2019 CPC TABLE 422.1).
BASED ON 2019 CPC EXCEPTION 422.2 (3), ONE TOILET FACILITY DESIGNED FOR USE BY
NO MORE THAN ONE PERSON AT A TIME, IS SUFFICIENT.

FIXTURES REQUIRED: FIXTURES PROVIDED:

ALL GENDER:
1 WC
1 LAVATORY
1 UTILITY SINK

1 WC
1 LAVATORY
1 UTILITY SINK

OCCUPANT LOAD LEGEND & CALCULATIONS

100 OL COMBINED OCCUPANT LOAD AT POINT OF EXIT ACCESS

COMBINED OCCUPANT LOAD
AND DIRECTION OF EXIT

FUNCTION OF SPACE	TOTAL AREA	OCCUPANT LOAD FACTOR	OCCUPANT LOAD
KITCHEN	804 S.F	1/200 GROSS	4
WAREHOUSE	2,876 SF	1/500 GROSS	6
TOTAL OL:			10

DOOR EXIT WIDTH:

10 OCCUPANTS REQUIRE A MINIMUM OF 1 EXIT

10 OCC X 0.2" = 2" (32" MIN) TOTAL REQUIRED DOOR WIDTH

34" PROVIDED



ARCHITECTS INC.
10520 Armstrong Avenue
Mather, CA 95655
Phone: 916 362-6303
Fax: 916 362-5841

Daniel P. Eriksson
Architect
Kevin L. Wilcox
Architect



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JOB TITLE:

CONSTRUCTION DOCUMENTS FOR:
SARTORI KITCHEN
5710 AUBURN BLVD, UNIT 22
SACRAMENTO, CA
OWNER: LUCA SARTORI

REVISIONS:

	DATE:	DESCRIPTION:
△	4-7-2020	FIRE COMMENTS
△		
△		
△		
△		
△		

DATE 03.11.20

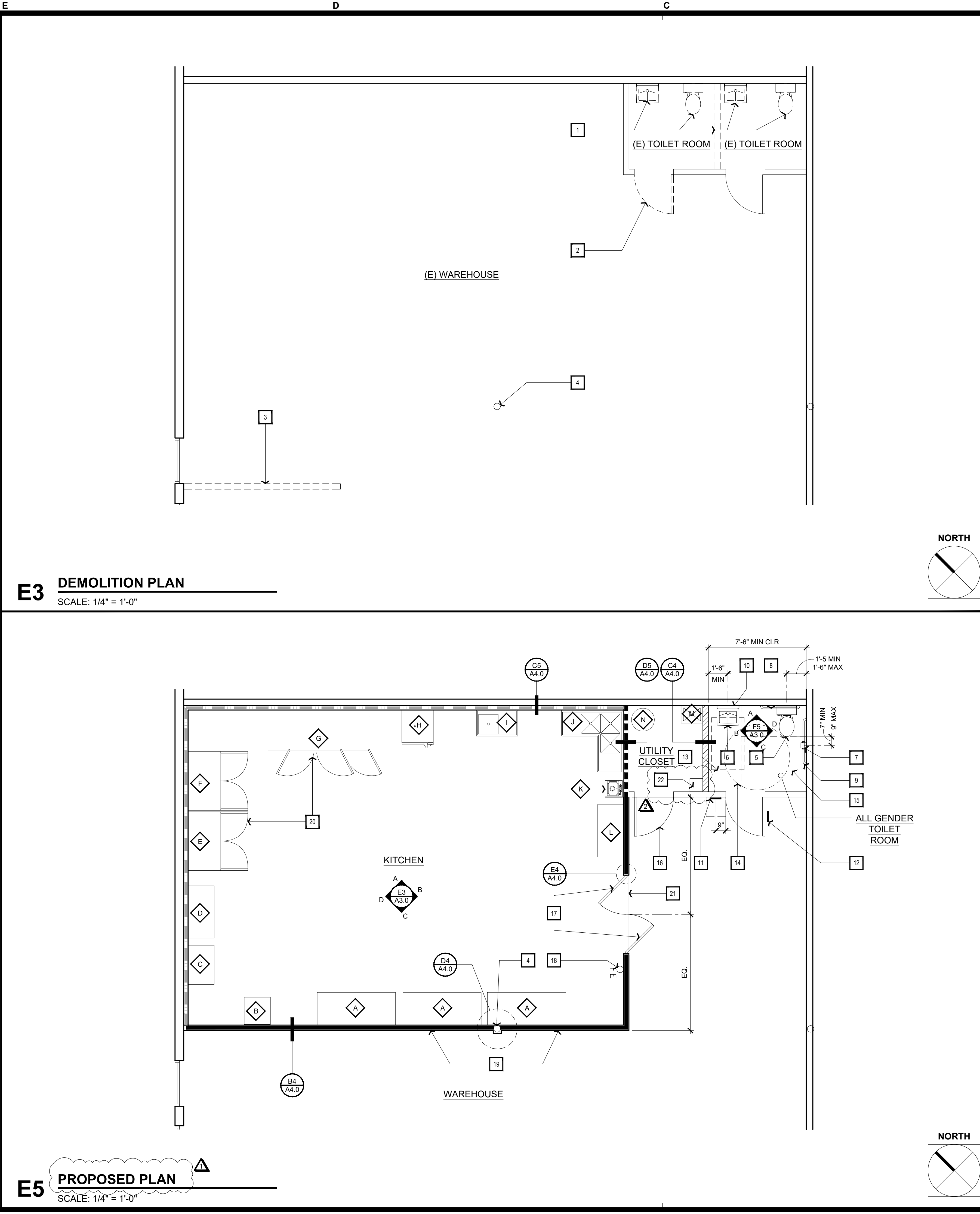
DRAWN DPE/YW

JOB NO. 20005

SHEET

△ **A0.2**
OF CODE ANALYSIS
5 SHEETS

F
2
3
4
5



E3 DEMOLITION PLAN
SCALE: 1/4" = 1'-0"

E5 PROPOSED PLAN
SCALE: 1/4" = 1'-0"

B
A

SHEET NOTES

A. WHERE (E) CONSTRUCTION IS TO BE REMOVED OR MODIFIED OR IS DAMAGED DURING CONSTRUCTION, ALL FINISHES (INCLUDING WALLS, FLOORS & CEILINGS) ARE TO BE PATCHED, FINISHED & PAINTED TO MATCH (E) CONSTRUCTION.

B. SEE ACCESSIBILITY GENERAL NOTES AND ACCESSIBILITY DETAILS SHEET A0.1.

C. FIELD VERIFY ALL DIMENSIONS PRIOR TO INSTALLATION OF MATERIALS / PRODUCTS.

D. PREPARE AND INSTALL ALL EQUIPMENT PER MANUFACTURING SPECIFICATIONS. ADVISE ARCHITECT OF ANY INCOMPATIBILITY PRIOR TO INSTALLATION.

ALL NEW AND REPLACEMENT EQUIPMENT SHALL MEET OR BE EQUIVALENT TO NSF STANDARDS.

KEYNOTES

- REMOVE (E) TOILET ROOM WALL AND PLUMBING FIXTURES. CAP PLUMBING STUB-OUTS IN FUTURE UTILITY CLOSET. SAVE FIXTURES AND ACCESSORIES FOR RELOCATION AS SHOWN ON FLOOR PLAN.
- (E) TOILET ROOM DOOR - REMOVE AND REVERSE DOOR SWING AS SHOWN ON FLOOR PLAN.
- REMOVE (E) PARTIAL HEIGHT WALL.
- (E) STEEL COLUMN TO REMAIN.
- RELOCATED FLOOR MOUNTED WATER CLOSET. SEE PLUMBING DRAWINGS AND DETAIL E5/A0.1.
- RELOCATED LAVATORY. INSULATE ALL EXPOSED PIPING: TRUEBRO UNDERSINK PIPING COVER OR EQ. SEE PLUMBING DRAWINGS AND DETAIL E5/A0.1.
- WALL MOUNTED TOILET PAPER DISPENSER. SEE DETAIL E5/A0.1 FOR MOUNTING HEIGHTS.
- 3'-0" LONG X 1 1/2" DIA. STAINLESS STEEL GRAB BAR. SEE DETAIL E5/A0.1 FOR MOUNTING HEIGHTS.
- 4'-0" LONG X 1 1/2" DIA. STAINLESS STEEL GRAB BAR. SEE DETAIL E5/A0.1 FOR MOUNTING HEIGHTS.
- RELOCATED MIRROR. SEE DETAIL E5/A0.1 FOR MOUNTING HEIGHTS.
- WALL MOUNTED TACTILE SIGNAGE. SEE DETAIL F4/A0.1.
- DOOR MOUNTED PICTOGRAM SIGNAGE. SEE DETAIL F4/A0.1.
- DASHED LINE INDICATES 2'-6" X 4'-0" ACCESSIBLE CLEAR SPACE, TYP.
- DASHED LINE INDICATES 5'-0" DIA. WHEELCHAIR RADIUS CLEAR SPACE.
- 59" X 60" MIN. CLEAR MANEUVERING FLOOR SPACE AT FLOOR MOUNTED WATER CLOSET.
- UTILITY CLOSET DOOR W/ REVERSED SWING. REINSTALL HARDWARE AND REPAIR JAMB AS NEEDED.
- (N) DUAL SWING PAIR OF 3'-0" X 7'-0" IMPACT TRAFFIC DOORS WITH FULL PERIMETER GASKETING. .100" THICK HIGH IMPACT THERMOPLASTIC EXTERIOR WITH A URETHANE FOAM CORE AND HIGH STRENGTH STRUCTURAL PVC FRAME; STAINLESS STEEL UPPER HINGE COVERS; MOUNTING SCREWS FOR FLUSH JAMBS INCLUDED (MODEL HCG-10N BY ELIASON CORP OR APPROVED EQUAL).

A) WINDOWS: 14" x 16"
B) WINDOW MOLDING: BLACK RUBBER MOLDING.
C) GLAZING: CLEAR ACRYLIC DOUBLE GLAZING SET IN BLACK RUBBER MOLDING
D) HARDWARE AND ACCESSORIES:
HINGES: DOUBLE ACTION EASY SWING(R) PROPRIETARY HINGES, FINISH: ZINC COATED.
E) BUMPERS: EASY SPRING BUMPERS, 0.25 INCH (6 MM) THICK HIGH IMPACT RESISTANT THERMOPLASTIC HEIGHT: 18 INCHES (457 MM)
F) COLOR: OFF WHITE
- WALL MOUNTED CLASS K FIRE EXTINGUISHER.
- ALIGN F.O.(N) WALL W/ (E) COLUMN ON KITCHEN SIDE. SEE DETAIL AS INDICATED.
- (N) O.F.C.I. KITCHEN EQUIPMENT, TYP. SEE EQUIPMENT SCHEDULE ON SHEET A4.0.
- LINE OF FLOORING TRANSITION.
- PROVIDE LOCKERS FOR EMPLOYEE PERSONAL ITEMS.

WALL LEGEND:

--- (E) CONSTRUCTION TO BE REMOVED

— (E) CONSTRUCTION TO REMAIN

FULL HEIGHT WALL: 3 5/8" x 20 GA. METAL STUDS AT 1'-4" O.C. WITH 5/8" TYPE 'X' G.W.B. EACH SIDE. RUN G.W.B. TO +6" ABOVE CEILING HEIGHT ON KITCHEN SIDE AND FULL WALL HEIGHT ON WAREHOUSE SIDE. SEE DETAIL B4/A4.0.

TOILET ROOM PARTITION: 3 5/8" x 20 GA. METAL STUDS AT 2'-0" O.C. W/ 5/8" TYPE 'X' G.W.B. EA. SIDE. FRAME WALL TO B.O. (E) JOISTS. SEE DETAIL C4/A4.0.

PONY WALL ON TOP OF (E) TOILET ROOM WALL: 3 5/8" x 20 GA METAL STUDS AT 2'-0" O.C. W/ 5/8" TYPE 'X' G.W.B. EA. SIDE. RUN G.W.B. TO +6" ABOVE CEILING HEIGHT ON KITCHEN SIDE AND FULL WALL HEIGHT ON WAREHOUSE SIDE. SEE DETAIL D5/A4.0.

FURRING: 3 5/8" x 25 GA. METAL STUDS AT 2'-0" O.C. WITH 5/8" TYPE 'X' G.W.B. ROOM SIDE TO +6" ABOVE CEILING HEIGHT. SEE DETAIL C5/A4.0.

NOTES:

- TYPE 'X' G.W.B. IS NOT REQUIRED DUE TO FIRE RATING U.N.O., HOWEVER IT IS THE ARCHITECT'S STANDARD FOR ALL G.W.B.
- USE M.R. G.W.B. @ ALL WET AREAS, TYP.
- ALL STUD SIZE INFORMATION IS FROM THE STEEL STUD MANUFACTURERS ASSOC. HANDBOOK 2014 ED.
- SEE DETAIL F3/A4.0 FOR STANDARD LIGHT GAUGE METAL FRAMING.

CONSTRUCTION DOCUMENTS FOR:
SARTORI KITCHEN

5710 AUBURN BLVD, UNIT 22
SACRAMENTO, CA

OWNER: LUCA SARTORI

REVISIONS:

DATE:	DESCRIPTION:
4-7-2020	FIRE COMMENTS
6-3-2020	PLAN CHECK 1

DATE 03.11.20
DRAWN DPE/YW
JOB NO. 20005
SHEET
OF 5
A2.0 FLOOR PLANS SHEETS

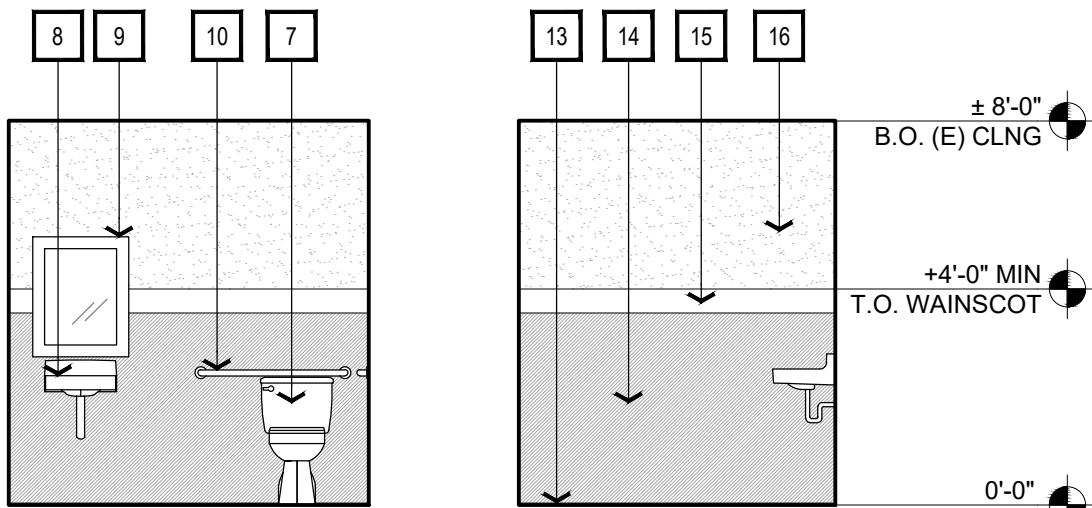
FINISH SCHEDULE

ROOM NAME	FLOOR	BASE	WALLS				CEILING	NOTES
			N	S	E	W		
KITCHEN	F1	B1	W1/P1	W1/P1	W1/P1	W1/P1	C1	1,2,3
UTILITY CLOSET	F1	B1	W1/P1	W1/P1	W1/P1	W1/P1	C2	1,2
TOILET ROOM	F2	B2	W2/P1	W2/P1	W2/P1	W2/P1	C2	1
WAREHOUSE	F2	-	-	-	-	-	-	-

- NOTES:
- USE SEMI-GLOSS PAINT AT ALL WET AREAS.
 - FRP TO +8'-0" A.F.F. SEE DETAIL B5/A4.0 FOR FLOOR TO WALL TRANSITION.
 - PAINT BOTH KITCHEN AND WAREHOUSE SIDES OF THE WALL.

FINISH LEGEND

- FLOORS:
- F1 3/16" THICK RESINOUS FLOORING
MANUF.: BASF UCRETE DP SYSTEM
TOP COAT: BASF MASTERTOP
TC 565
- F2 (E) CONC. FLOOR
- BASE:
- B1 INTEGRAL COVE BASE
MANUF.: BASF UCRETE RG
(SEE DETAIL B5/A4.0)
- B2 ANODIZED ALUMINUM SCHLUTER
COVE BASE DILEX-AHKA
- WALLS:
- W1 FRP
- W2 CERAMIC TILE TO +4'-0" A.F.F.
- P1 PAINT: TBD
- CEILINGS:
- C1 LAY-IN CEILING
MANUF.: USG OR APPROVED EQ.
MODEL: CLIMAPLUS #3270 SQ. EDGE
COLOR: WHITE
FINISH: VINYL
- C2 PAINT (E) CEILING

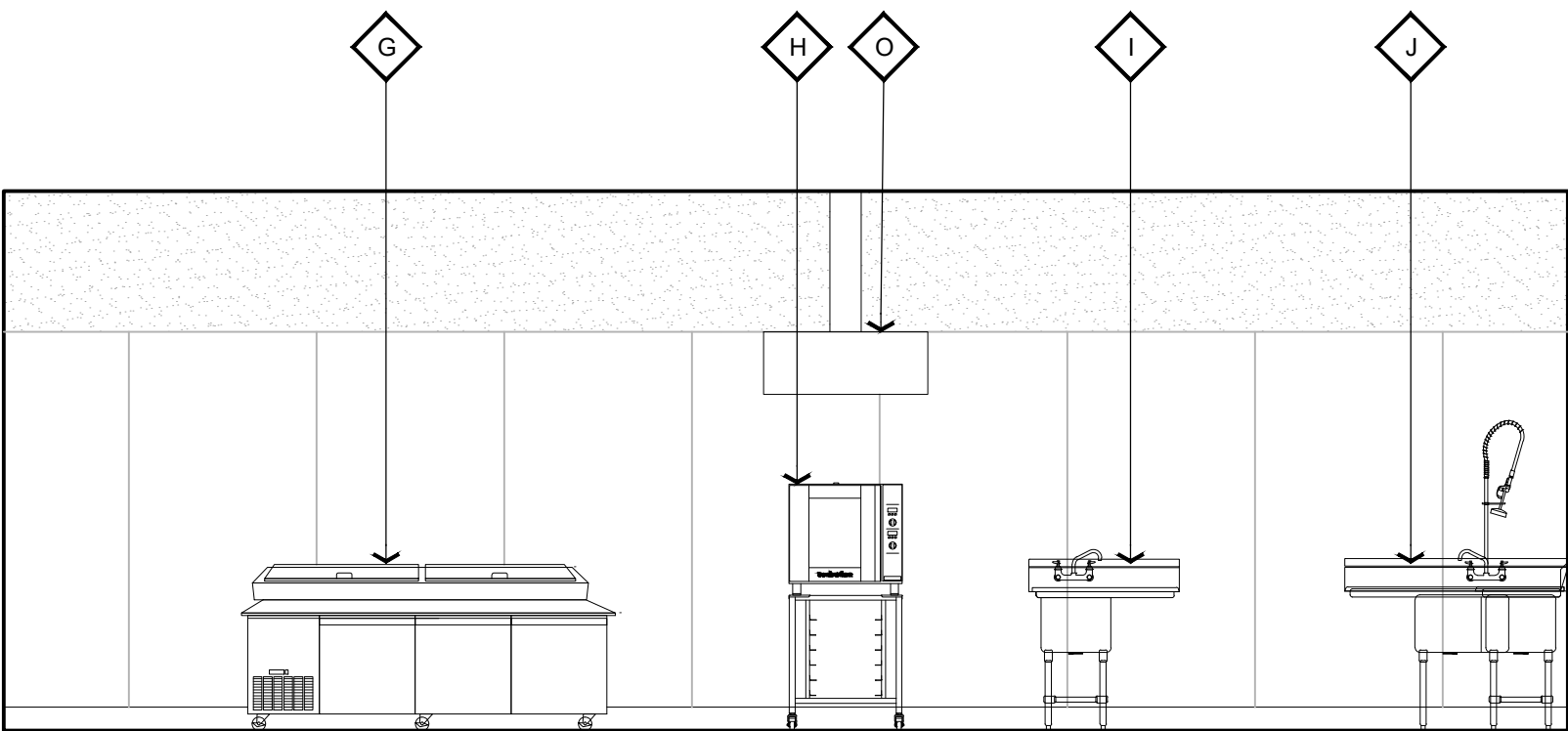


F5 TOILET ROOM ELEVATIONS

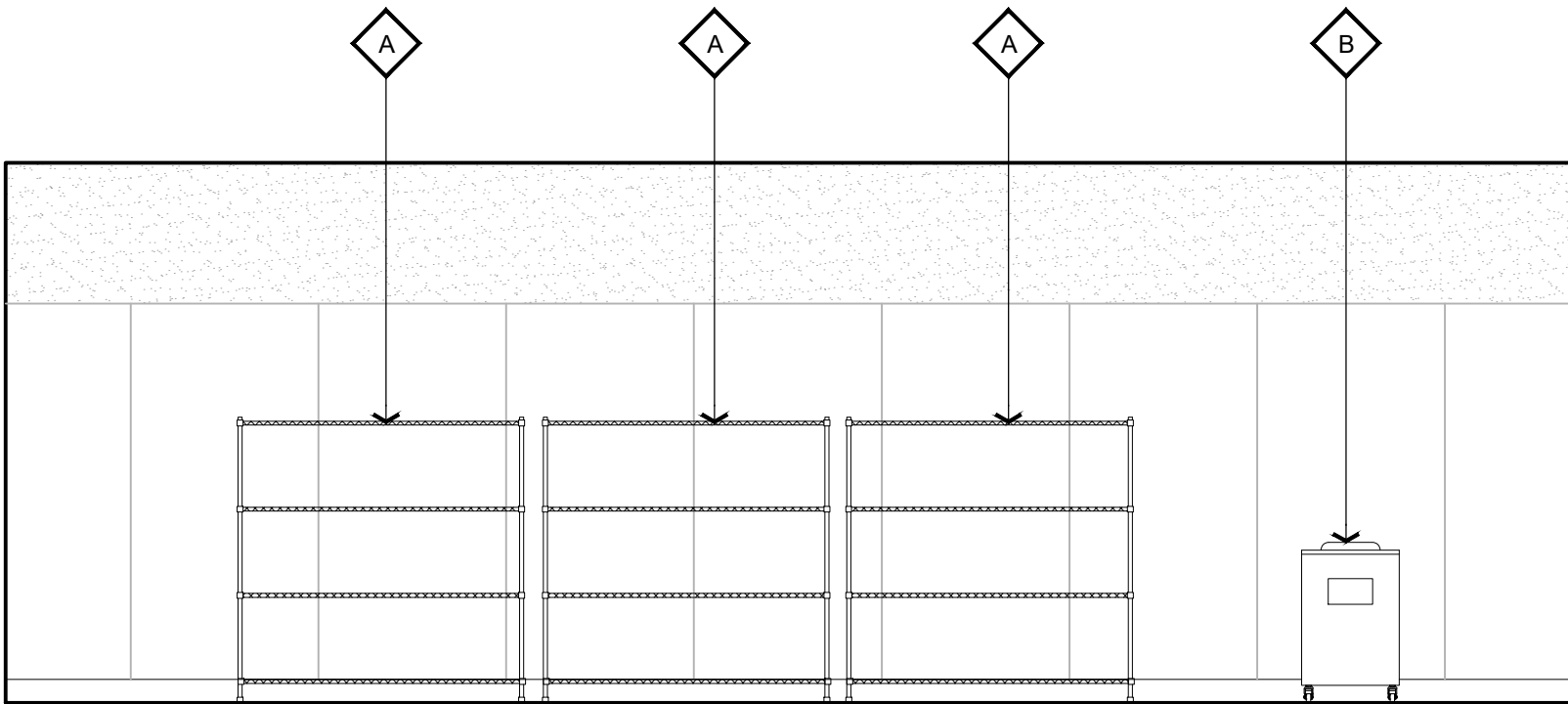
SCALE: 1/4" = 1'-0"

E3 KITCHEN ELEVATIONS

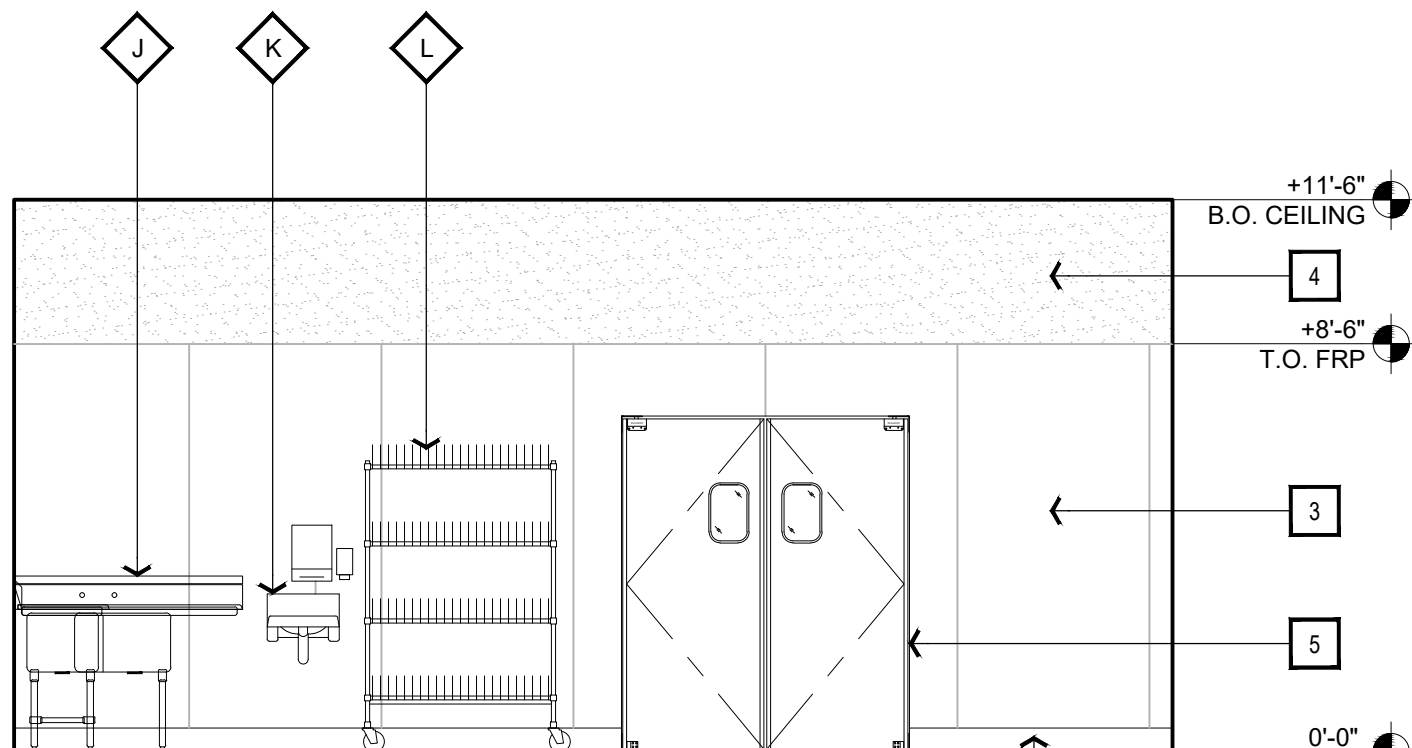
SCALE: 1/4" = 1'-0"



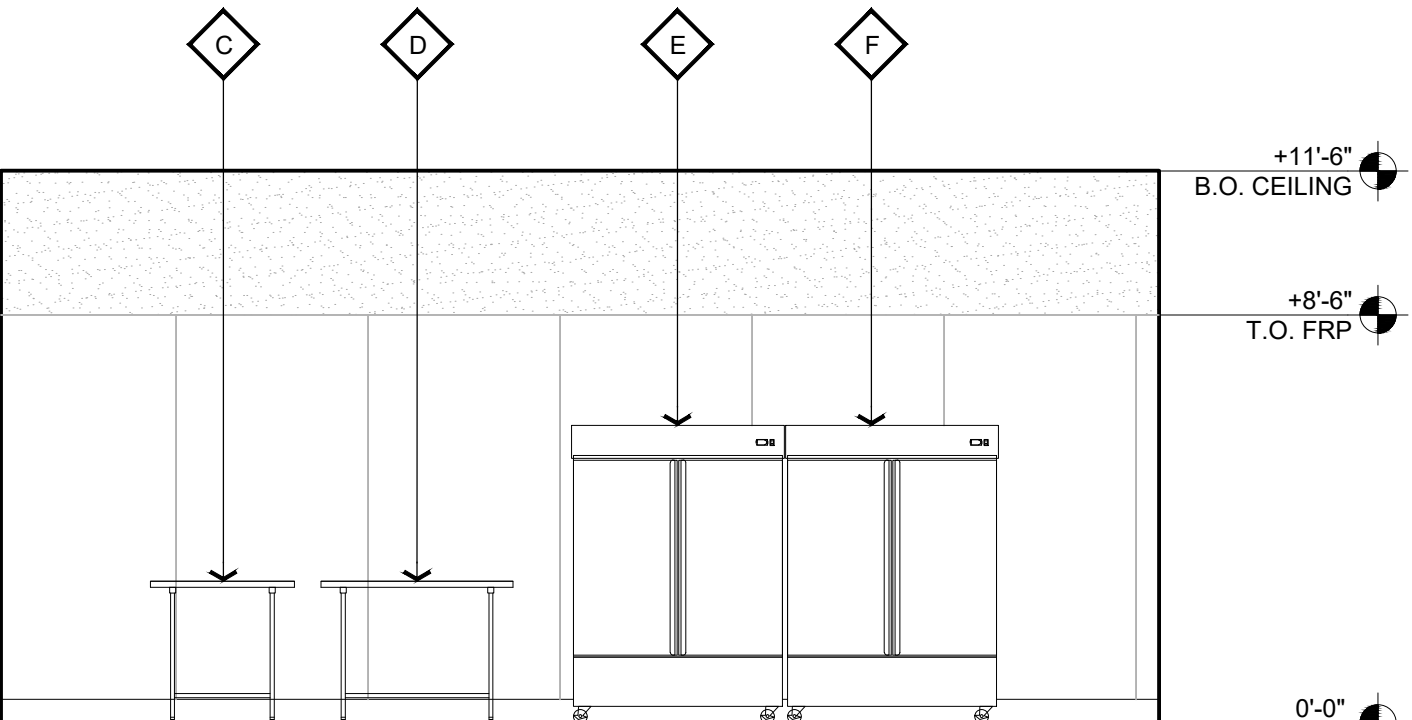
A



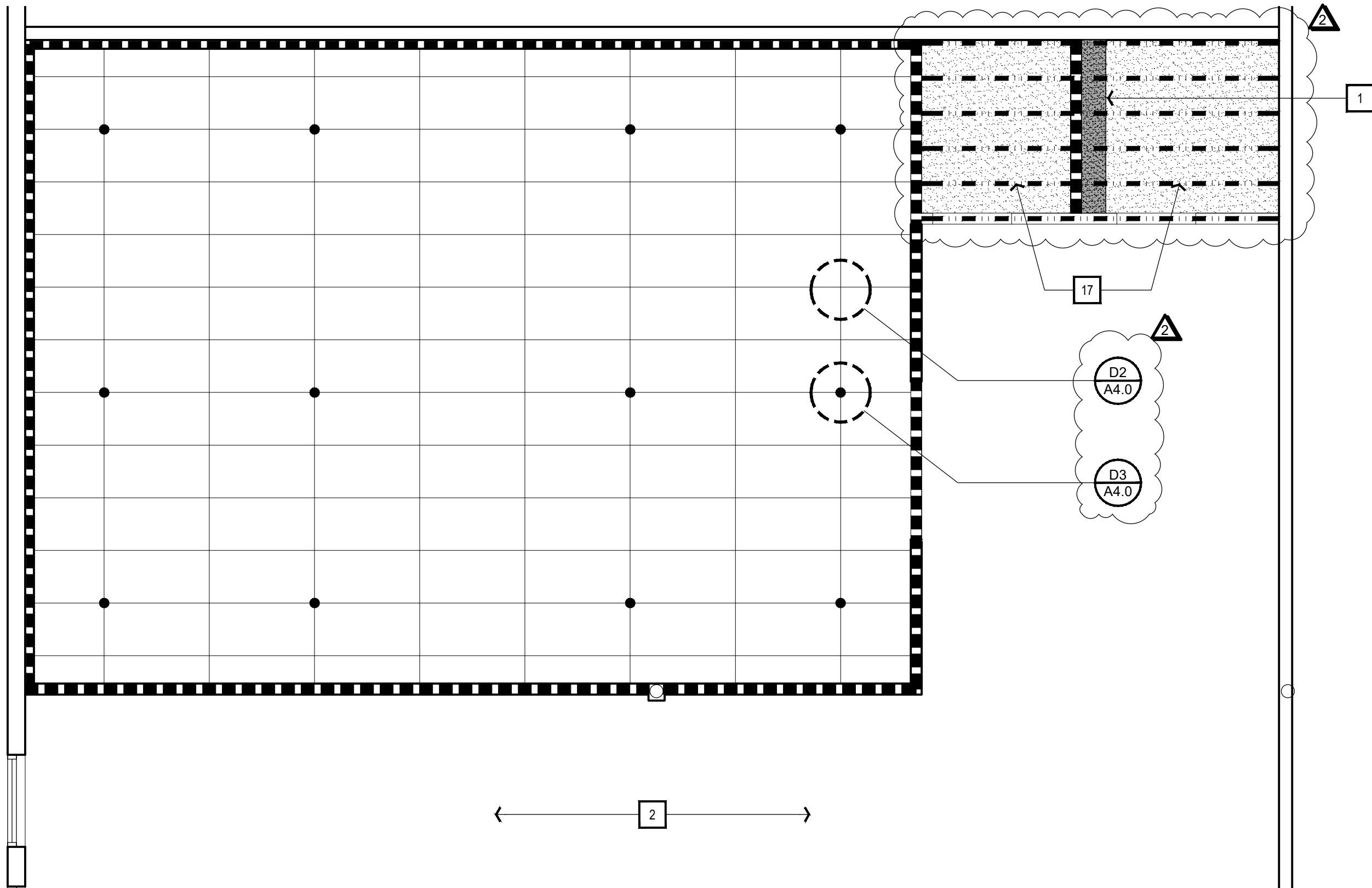
C



B



D



SHEET NOTES

- WHERE (E) CONSTRUCTION IS TO BE REMOVED OR MODIFIED OR IS DAMAGED DURING CONSTRUCTION, ALL FINISHES (INCLUDING WALLS, FLOORS & CEILINGS) ARE TO BE PATCHED, FINISHED & PAINTED TO MATCH (E) CONSTRUCTION.
- DAMAGE TO ANY ELEMENT OF THE BUILDING OR SITE MUST BE CORRECTED BY THE CONTRACTOR TO THE OWNER'S SATISFACTION.
- PATCH AND REPAIR WALLS ADJACENT TO REMOVED TO BE IN SERVICEABLE CONDITION.
- PREPARE AND INSTALL ALL EQUIPMENT PER MANUFACTURING SPECIFICATIONS. ADVISE ARCHITECT OF ANY INCOMPATIBILITY PRIOR TO INSTALLATION.
- ALL G.W.B SURFACES TO BE PAINTED OR TO RECEIVE WALL COVERINGS SHALL BE LEVEL 4 SMOOTH FINISH, U.N.O.
- ASSUME 'P1' FOR ANY PAINTED SURFACE NOT OTHERWISE SPECIFIED.
- SEE SHEET A4.0 FOR EQUIPMENT SCHEDULE.

KEYNOTES

- REPAIR G.W.B CEILING WHERE (E) TOILET ROOM WALL HAS BEEN REMOVED.
- NO CEILING THROUGHOUT THE (E) WAREHOUSE.
- FRP. SEE FINISH NOTES.
- PAINTED G.W.B. SEE FINISH NOTES.
- PAIR OF FOOD SERVICE DOORS. SEE FLOOR PLAN ON SHEET A2.0.
- INTEGRAL EPOXY WALL BASE. SEE FINISH NOTES AND DETAIL B5/A4.0.
- RELOCATED FLOOR MOUNTED WATER CLOSET. SEE PLUMBING DRAWINGS AND DETAIL E5/A0.1.
- RELOCATED LAVATORY. INSULATE ALL EXPOSED PIPING: TRUEBRO UNDERSINK PIPING COVER OR EQ. SEE PLUMBING DRAWINGS AND DETAIL E5/A0.1. COORDINATE LAVATORY MOUNTING HEIGHT W/ RELOCATED MIRROR.
- RELOCATED MIRROR. SEE DETAIL E5/A0.1 FOR MOUNTING HEIGHTS.
- 3'-0" LONG X 1 1/2" DIA. STAINLESS STEEL GRAB BAR. SEE DETAIL E5/A0.1 FOR MOUNTING HEIGHTS.
- 4'-0" LONG X 1 1/2" DIA. STAINLESS STEEL GRAB BAR. SEE DETAIL E5/A0.1 FOR MOUNTING HEIGHTS.
- WALL MOUNTED TOILET PAPER DISPENSER. SEE DETAIL E5/A0.1 FOR MOUNTING HEIGHTS.
- REMOVE (E) RUBBER BASE AND INSTALL SCHLUTER COVE BASE. SEE FINISH LEGEND.
- CERAMIC WALL TILE TO MATCH (E). REPAIR AS REQUIRED WHERE (E) WALL HAS BEEN REMOVED.
- CERAMIC WALL TILE BORDER TO MATCH (E). REPAIR AS REQUIRED WHERE (E) WALL HAS BEEN REMOVED.
- PAINTED G.W.B TO MATCH (E).
- INDICATES DIRECTION OF (E) CEILING JOISTS.

CEILING AND INSULATION LEGEND:

- (N) T-BAR CEILING: 2' X 4' LAY-IN ACOUSTICAL TILE IN EXPOSED T-BAR GRID. SEE FINISH SCHEDULE SHEET A2.0. CEILING HEIGHT 11'-6" A.F.F.
- (E) G.W.B CEILING TO REMAIN
- (N) G.W.B CEILING TO MATCH (E)
- R-13 UNFACED, FORMALDEHYDE FREE BATT INSULATION FULL HEIGHT OF WALL. "ECOBATT" BY KNAUF OR APPROVED EQ.
- COMPRESSION STRUT, SEE DETAIL AS INDICATED

NOTE:

CEILING FIXTURES SUPPORT (i.e. LIGHT & SIM. FIXTURES) SHALL BE SUPPORTED PER C.B.C. (CURRENT EDITION) SECTION 1613.1 AND ASCE 7-10 STANDARDS. FIXTURES WEIGHING LESS THAN 56 POUNDS SHALL HAVE, IN ADDITION TO THE STANDARDS MENTIONED ABOVE, TWO No. 12 GA. WIRE HANGERS CONNECTED FROM THE FIXTURE HOUSING TO THE STRUCTURE ABOVE. THESE WIRES MAY BE SLACK. FIXTURES WEIGHING 56 POUNDS OR MORE SHALL BE SUPPORTED WITH APPROVED HANGERS DIRECTLY FROM THE STRUCTURE ABOVE.



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JOB TITLE:

CONSTRUCTION DOCUMENTS FOR:
SARTORI KITCHEN

5710 AUBURN BLVD, UNIT 22
SACRAMENTO, CA

OWNER: LUCA SARTORI

REVISIONS:

DATE:	DESCRIPTION:
06-03-20	PLAN CHECK 1

DATE 03.11.20

DRAWN DPE/YW

JOB NO. 20005

SHEET

RCP & ELEVATIONS
OF 5 SHEETS

A3.0
SHEETS

F

E

D

C

B

A

AA. WITH OWNER OR ARCHITECT APPROVAL, CONTRACTOR CAN SUBSTITUTE LIGHT GAUGE METAL FRAMING SHOWN ON WALL LEGEND W/ SIZES SHOWN IN STEEL STUD TABLE.

BB. OVERALL LIGHT GAUGE METAL FRAMING DIMENSIONS SHALL BE NO SMALLER THAN THOSE SPECIFIED ON PLANS.

CC. FOR BEARING WALLS, FLOORS, ROOFS, CEILINGS & NON-BEARING WALLS NOT COVERED IN THE SCHEDULES, CONTACT ARCHITECT.

DD. ALL METAL FRAMING MEMBERS AND PARTS SHALL CONFORM WITH AISI SPECIFICATIONS FOR DESIGN OF COLD STEEL STRUCTURAL MEMBERS, ASTM A653 GRADE A.

EE. ALL FRAMING DETAILS SHALL CONFORM WITH U.S. GYPSUM - "GYPSUM CONSTRUCTION HANDBOOK".

FF. NON-BEARING INTERIOR PARTITION WITH G.W.B. ONLY. NO CASEWORK OR OTHER EXTRA LOADING.

GG. ALL SPANS AND HEIGHTS ARE IN FEET AND INCHES, AND ARE FROM ICC REPORT ESR-3064P AND REFLECT AN L120 MAX. GOVERNING CONDITION & L240 CEILING CONDITION.

HH. BOTH FLANGES OF JOISTS ARE TO BE CONTINUOUSLY, LATERALLY SUPPORTED, (SIMPLE SPAN)

JJ. CALCULATIONS FOR MAXIMUM CLEAR SPAN FOR STUDS ONLY OR G.W.B. ONE SIDE OF WALL ONLY. SEE TABLE A FOR WALL BRACING REQUIREMENTS.

KK. NON-BEARING CEILINGS W/G.W.B. ONE SIDE ONLY IS NOT TO BE WALKED ON. BOTH FLANGES OF JOISTS ARE TO BE CONTINUOUSLY, LATERALLY SUPPORTED, (SIMPLE SPAN)

LL. UNLESS CALLED OUT OTHERWISE ON DRAWINGS, SHOT PINS (POWDER ACTUATED FASTENERS) SHALL BE AS MANUFACTURED BY HILTI, INC. AS DESCRIBED IN I.C.C. REPORT #ESR-1663. PINS SHALL BE MIN 0.14" DIA. AND PENETRATE AT LEAST 1-1/2" INTO CONCRETE U.N.O. ATTACH SILL TRACK TO FLOOR SLAB WITH MIN 32" O.C. AND WITHIN 9" OF EA. END U.N.O. ON DRAWINGS. PROVIDE MIN 2 SHOTS PINS PER TRACK.

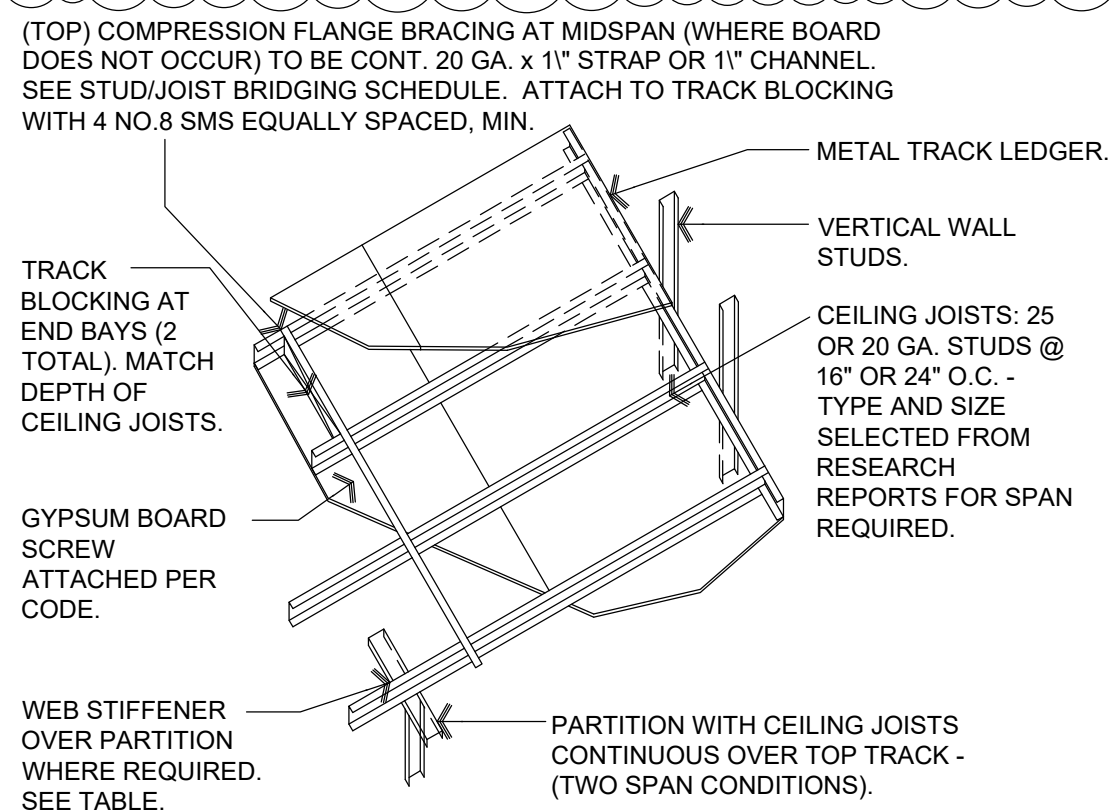


TABLE C

F3 LIGHT GAUGE METAL FRAMING

SCALE: NO SCALE

TABLE FOR NON-BEARING SCREWABLE STEEL STUDS & JOISTS ONLY

GAUGE AND STUD DEPTH	A Ø			B *			C #			D #		
	INTERIOR PARTITION 5 P.S.F. G.W.B. BOTH SIDES			INTERIOR PARTITION 5 P.S.F. STUDS ONLY SEE NOTE JJ			CEILING 4 P.S.F. G.W.B. ONE SIDE ONLY			CEILING 17 P.S.F. G.W.B. BOTH SIDES		
	STUD SPACING			STUD SPACING			JOIST SPACING			JOIST SPACING		
	MAX. HT. SEE NOTE FF *			MAX. HT. SEE NOTE FF *			MAX. SPAN SEE NOTE KK #			MAX. SPAN SEE NOTE HH #		
25 GA	1'-0"	1'-4"	2'-0"	1'-0"	1'-4"	2'-0"	1'-4"	2'-0"	1'-4"	2'-0"	2'-0"	2'-0"
2-1/2"	13'-3"	12'-0"	10'-2"	11'-2"	10'-3"	9'-0"	10'-3"	9'-0"	10'-3"	5'-10"	4'-9"	4'-9"
3-5/8"	17'-3"	15'-1"	12'-4"	15'-3"	14'-0"	10'-7"	12'-3"	10'-10"	7'-3"	5'-11"	5'-11"	5'-11"
4"	18'-8"	16'-2"	13'-2"	18'-6"	15'-0"	11'-6"						
20 GA	1'-0"	1'-4"	2'-0"				1'-4"	2'-0"	1'-4"	2'-0"		
2-1/2"	16'-1"	14'-7"	12'-9"	16'-0"	14'-6"	11'-1"	12'-5"	10'-11"	8'-0"	6'-10"		
3-5/8"	20'-10"	18'-11"	16'-6"	20'-7"	16'-10"	14'-10"	14'-6"	13'-1"	10'-8"	8'-10"		
4"	23'-1"	21'-0"	18'-4"	21'-4"	17'-4"	15'-6"	15'-0"	13'-5"	11'-6"	9'-6"		
6"	32'-0"	29'-1"	24'-1"	27'-2"	22'-8"	22'-0"	17'-0"	15'-4"	15'-5"	12'-7"		

TABLE DERIVED FROM ICC REPORT ESR-3064P

NOTE: ALL VALUES ARE DETERMINED FROM "STEEL STUD MANUFACTURERS ASSOCIATION" (SSMA) MANUALS. CONTRACTOR IS RESPONSIBLE FOR VALUES IF DIFFERENT METAL STUD IS USED.

Ø APPLICABLE ONLY TO WALLS WITH GYPBOARD ON BOTH SIDES FULL HEIGHT.

1 SEE CEILING BRACING EXAMPLE.

*"g" WEB STIFFENERS REQUIRED AT EACH SUPPORT.

STUD/JOIST BRIDGING

THE FOLLOWING BRIDGING SPACING IS REQUIRED:

- SPAN UP TO 14'-0"
- SPAN 14'-0" TO 20'-0"
- SPAN 20'-0" TO 26'-0"
- SPAN 26'-0" TO 32'-0"
- SPAN 32'-0" & OVER
- ONE ROW AT MID-SPAN
- TWO ROWS SPACED AT 1/3 POINTS OF SPAN
- THREE ROWS SPACED AT 1/4 POINTS OF SPAN
- FOUR ROWS SPACED AT 1/5 POINTS OF SPAN
- AT 4'-0" MAXIMUM CENTERS

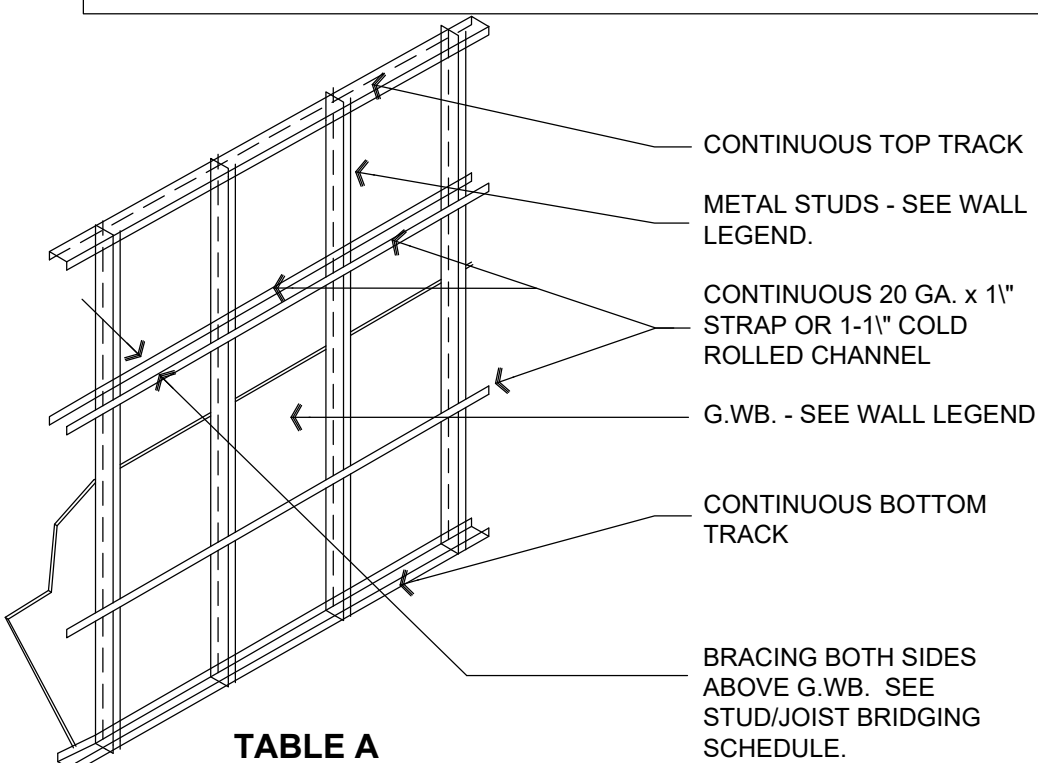
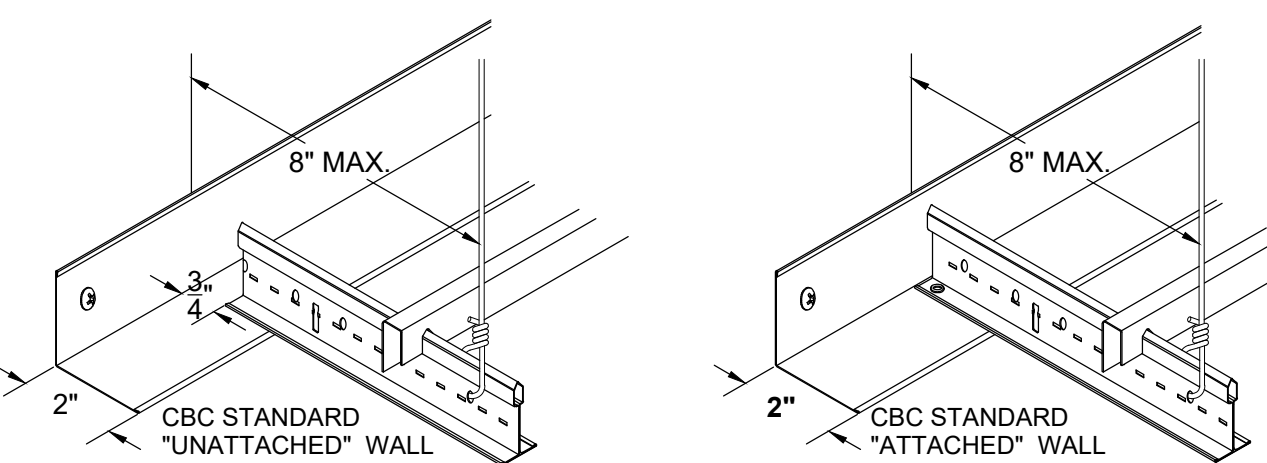


TABLE A

ARMSTRONG SEISMIC Rx SUSPENSION SYSTEM ICC REPORT ESR-1308. ALTERNATIVE INSTALLATION USING BERC2 CLIPS FOR SEISMIC CATEGORY D,E & F.

CBC SEISMIC CAT	BUILDING CODE INSTALLATION REQUIREMENTS	ARMSTRONG BERC2 SOLUTION
D - F (USE HEAVY DUTY GRID)	- MIN. 2" MOLDING - ATTACHED GRID ON TWO ADJACENT WALLS. - POP RIVETS ACCEPTABLE - 3/4" CLEARANCE AT PERIMETER ON UNATTACHED ENDS - STABILIZER BARS TO PREVENT THE SPREAD OF MAIN BEAMS & CROSS TEES - 7/8" MOLDING - INSTALL 2" OVERSIZED TRIM RINGS FOR ALL SPRINKLERS	- MIN. 7/8" MOLDING - ATTACHED GRID ON TWO ADJACENT WALLS WITH THE BERC2 OR POP RIVETS. NOTE: USING THE BERC2 CLIP SYSTEM TO THE WALL SECURES THE GRID & ELIMINATES THE NEED FOR POP RIVETS THROUGH THE VISIBLE PART OF THE WALL. - BERC2 CLIP WITH 3/2" - 3/4" CLEARANCE ON UNATTACHED ENDS - BERC2 CLIP ON ALL FOUR WALLS OR 3 WALLS & POP RIVETS ON ATTACHED END OF 4TH WALL - BERC2 MAINTAINS MAIN BEAM & CROSS TEE SPACING. NO OTHER COMPONENTS, (STABILIZER BARS), REQUIRED.

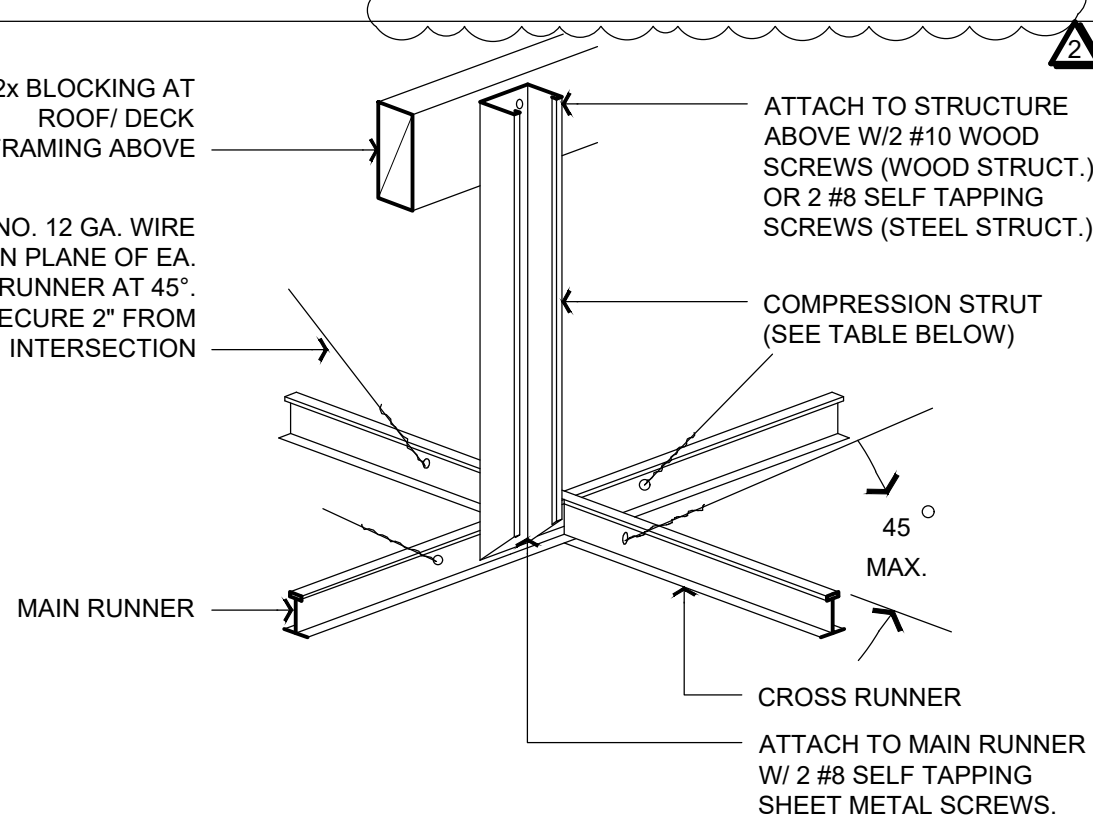


D2 SUSPENDED LAY-IN CEILING

SCALE: N.T.S.

D00000 662

NOTE: COMPRESSION STRUTS MUST BE MAX. 6'-0" DISTANCE FROM PERIMETER WALLS, 12'-0" O.C. AND MUST COMPLY W/ CURRENT CBC CHAPTER 25/ ASCE 7-16 CHAPTER 13 STANDARDS.



D3 COMPRESSION STRUT

SCALE: N.T.S.

D00000 663

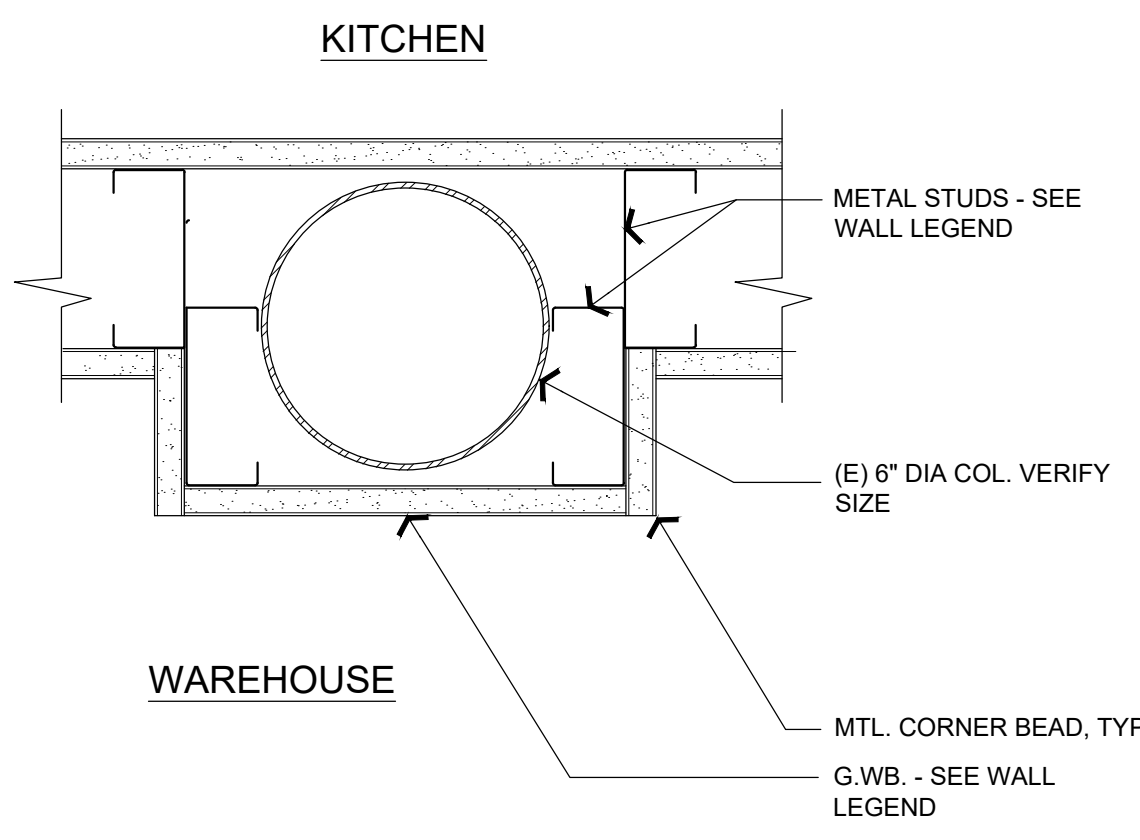
SINGLE STUD SIZE

	MAX. LENGTH	SPACING
2-1/2" DEEP X 1-1/4" FLANGE X 25 GA. MTL. STUD. (250S125-18)	7'-0"	12'-0" EA. WAY
3-1/2" DEEP X 1-1/4" FLANGE X 25 GA. MTL. STUD. (350S125-18)	6'-9"	12'-0" EA. WAY
2-1/2" DEEP X 1-5/8" FLANGE X 20 GA. MTL. STUD. (250S162-33)	10'-1"	12'-0" EA. WAY
3-1/2" DEEP X 1-5/8" FLANGE X 20 GA. MTL. STUD. (350S162-33)	10'-1"	12'-0" EA. WAY

DOUBLE STUD SIZE

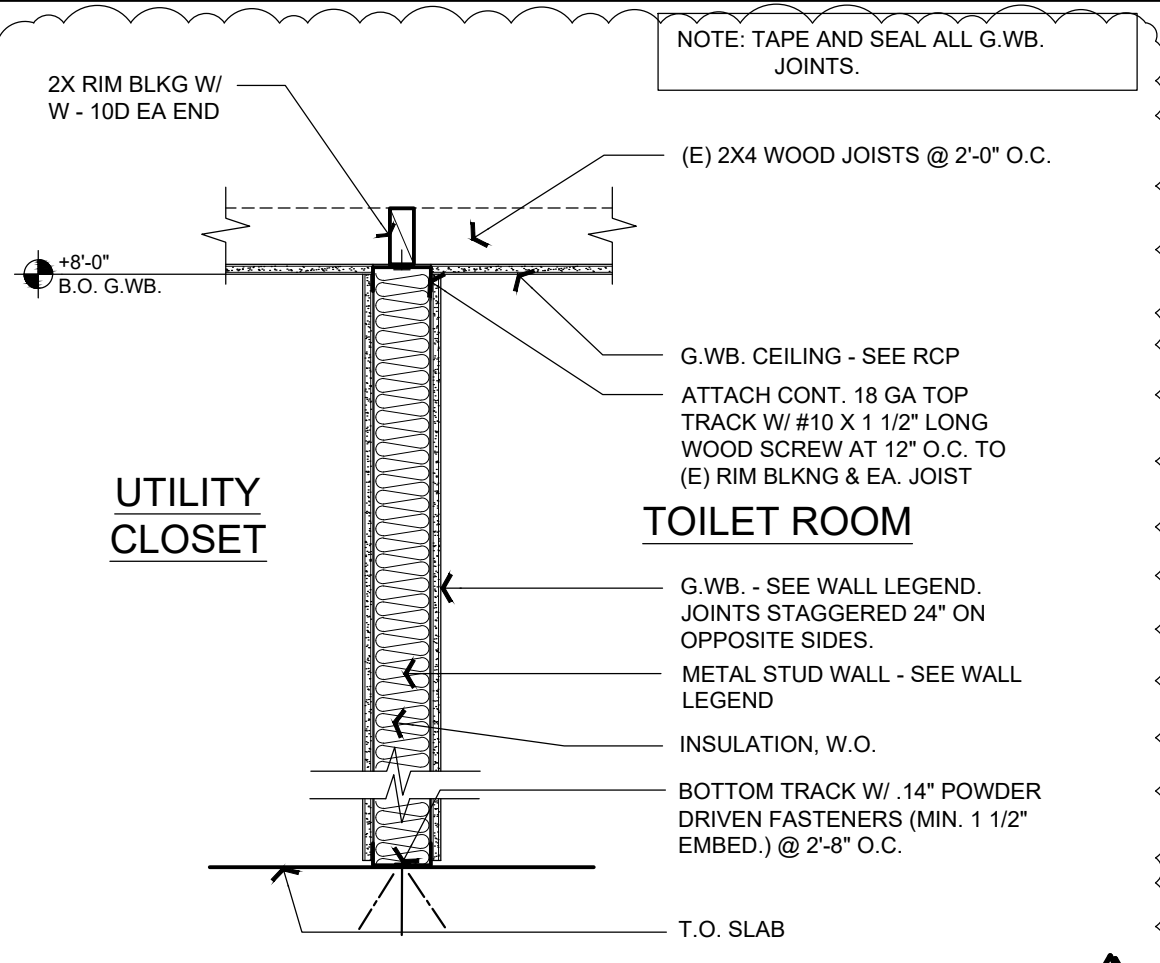
	MAX. LENGTH	SPACING
2-1/2" DEEP X 1-1/4" FLANGE X 25 GA. MTL. STUD. (250S125-18)	15'-0"	12'-0" EA. WAY
2-1/2" DEEP X 1-5/8" FLANGE X 20 GA. MTL. STUD. (250S162-33)	16'-0"	12'-0" EA. WAY
3-1/2" DEEP X 1-3/4" FLANGE X 20 GA. MTL. STUD. (350S162-33)	20'-0"	12'-0" EA. WAY
6" DEEP X 1-1/4" FLANGE X 20 GA. MTL. STUD. (600S137-33)	30'-0"	12'-0" EA. WAY

FASTEN TOGETHER WITH #8 SELF TAPPING SCREWS AT 2'-0" ENTIRE LENGTH OF STRUT



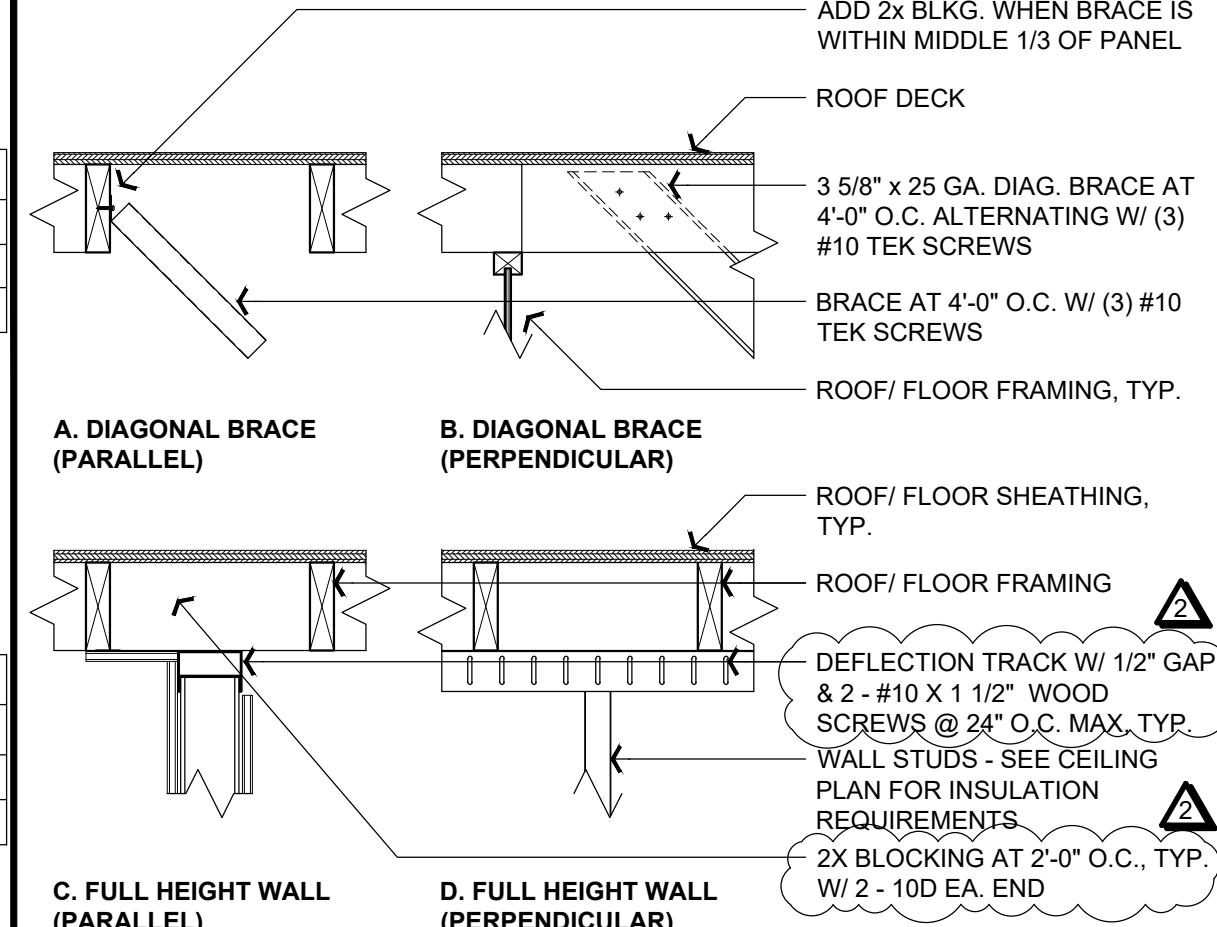
D4 FURRING @ STL. COLUMN

SCALE: 3"=1'-0"



C4 TOILET ROOM PARTITION

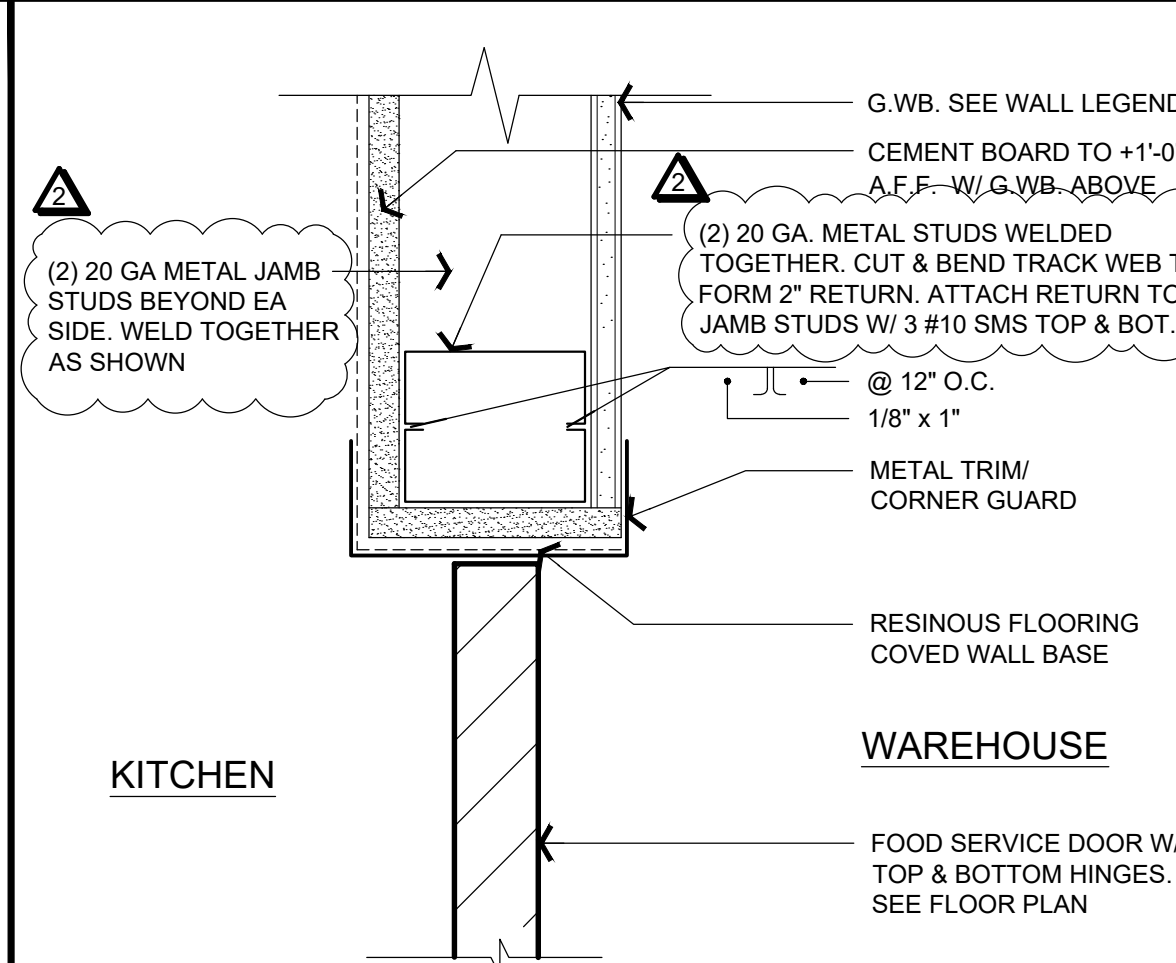
SCALE: 1"=1'-0"



B3 METAL STUD HEAD BRACE

SCALE: 1"=1'-0"

D00000 363

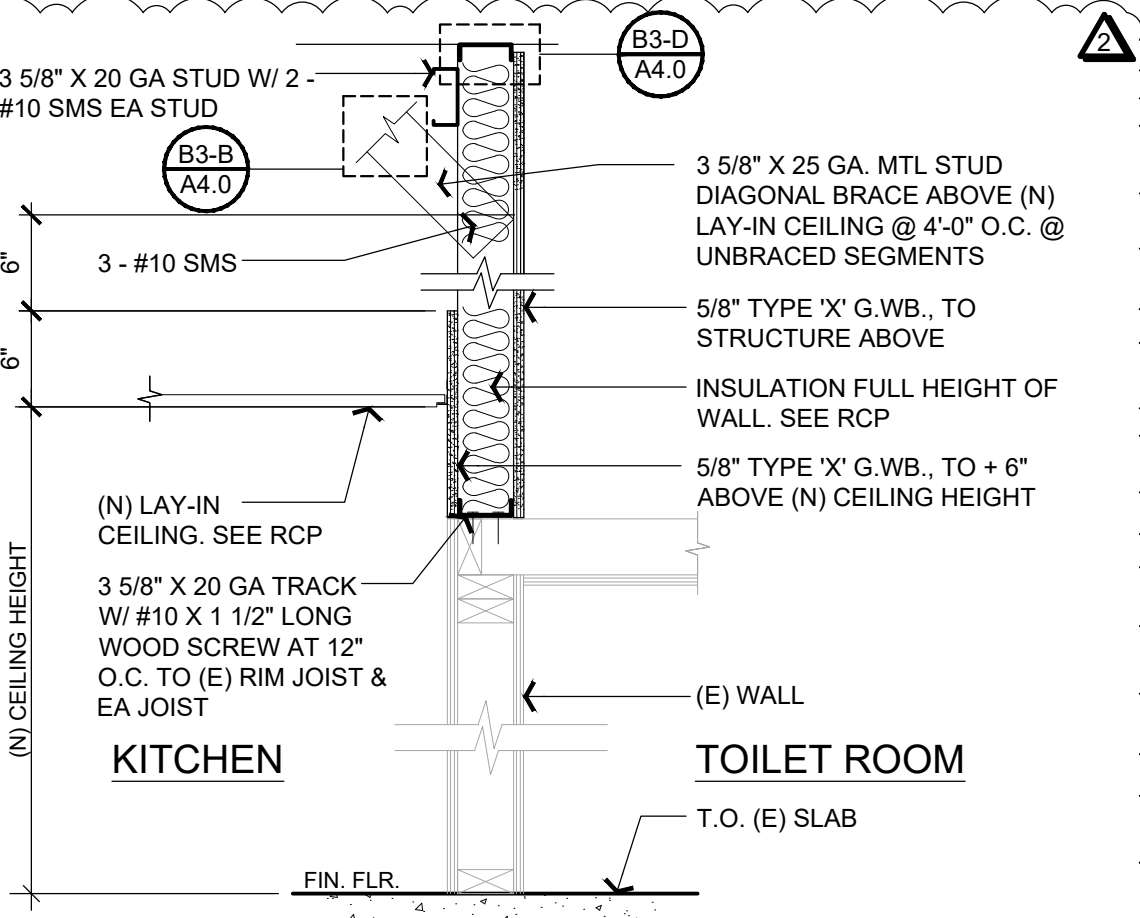


D4 KITCHEN DOOR JAMB

SCALE: 3"=1'-0"

EQUIPMENT SCHEDULE

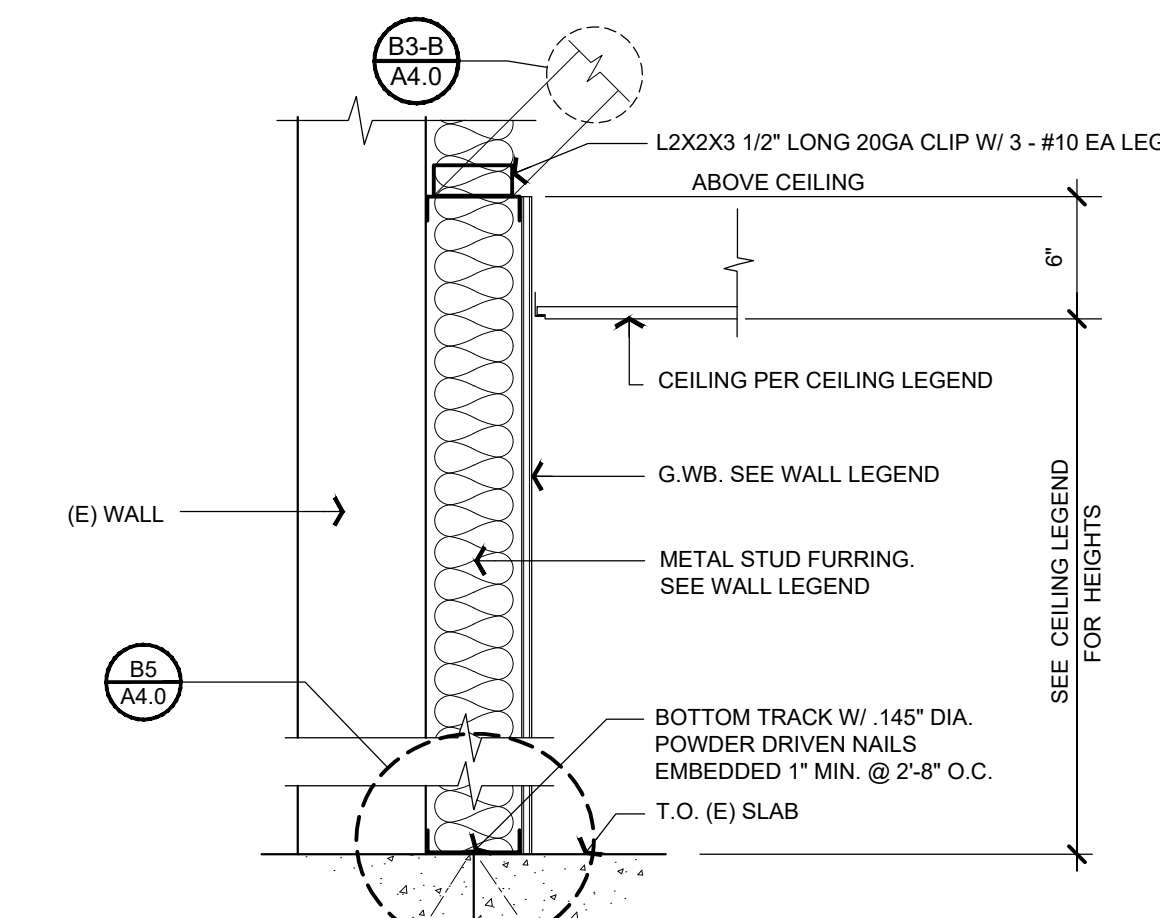
TAG	QUANTITY	EQUIPMENT DESCRIPTION	MANUFACTURER/MODEL	ELECTRICAL					REMARKS
				VOLTS	HZ	PHASE	AMPS	HP/WATT	
A	3	WIRE SHELVING UNIT	ULINE						72X30X72"
B	1	VACUUM PACKAGING MACHINE	VACMASTER VP545	110	60	1	13	1,430 W	
C	1	WORK TABLE	REGENCY						24X36", 16GA
D	1	WORK TABLE	REGENCY						24X48", 16GA
E	1	REACH-IN FREEZER	AVANTCO	115	60	1	10.7	1 HP	2 DOOR
F	1	REACH-IN REFRIGERATOR	AVANTCO A-49R-HC	115	60	1	4.56	1/4 HP	2 DOOR
G	1	PIZZA PREP TABLE	AVANTCO SSPT-3	115	60		7	1/4 HP	3 DOOR
H	1	ELECTRIC CONVECTION OVEN	MOFFAT E32D5	220-240	60	1	27	6.5KW	WITH S.S. STAND
I	1	ONE COMPARTMENT SINK	REGENCY 600S1181818 RT						16GA S.S.
J	1	3-COMPARTMENT CORNER SINK	REGENCY 600S1181818C						16GA S.S.
K	1	HAND SINK	COLUMBIA 607L						20GA S.S.
L	1	WIRE SHELVING UNIT	ADVANCE TABCO						18X42X72"
M	1	WATER HEATER	RHEEM PERFORMANCE				18.75	4.5 KW	50 GAL TALL
N	1	MOP SINK	MAXARA 25" 16 GA SS304						16 GA S.S.
O	1	EXHAUST HOOD TYPE 1	ACCURE XXEW						WALL CANOPY



D5 PONY WALL DETAIL

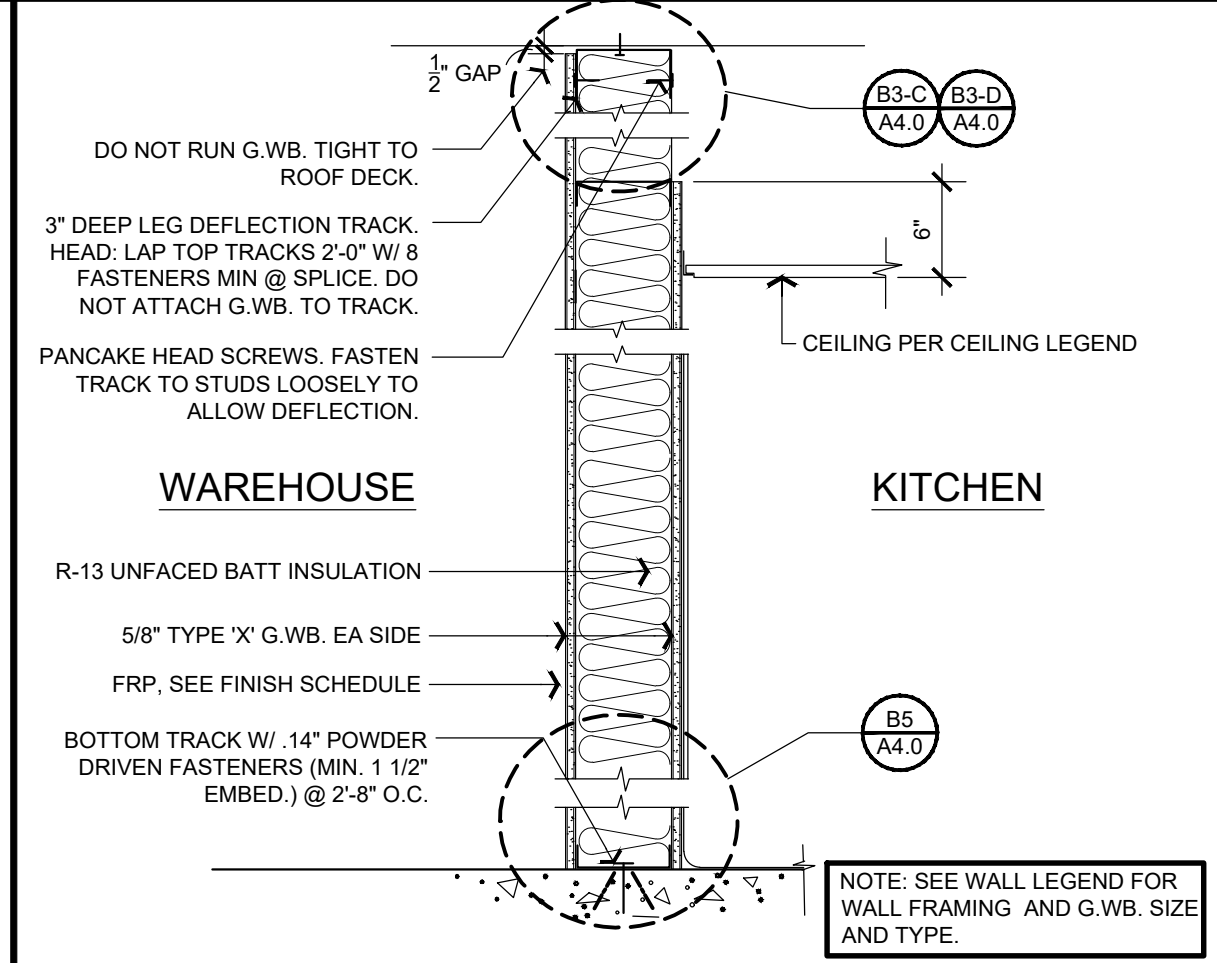
SCALE: 1"=1'-0"

D00000 362



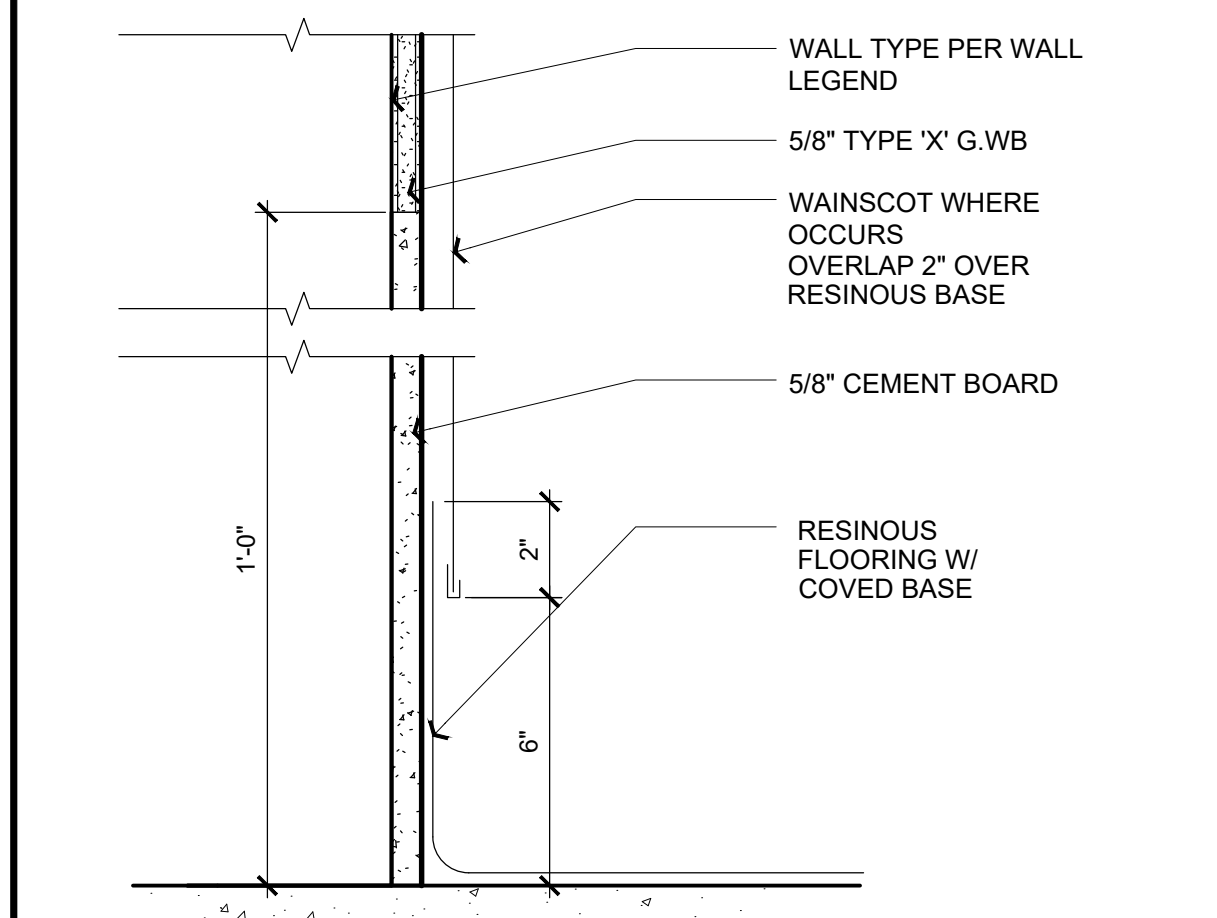
C5 TYP. FURRING WALL

SCALE: 1"=1'-0"



B4 FULL HEIGHT WALL

SCALE: 1"=1'-0"



B5 WALL / FLOOR TRANSITION (EPOXY)

SCALE: 3"=1'-0"

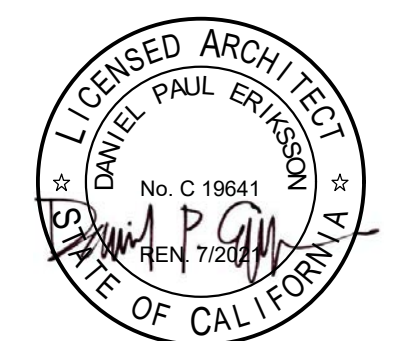


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SHEET

OF 5
A4.0
DETAILS
SHEETS

OF - SHEETS



MECHANICAL GENERAL NOTES

1) ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN COMPLIANCE WITH THE FOLLOWING CODES AS AMENDED AND ADOPTED BY THE AUTHORITY(ES) HAVING JURISDICTION: 2019 CALIFORNIA ADMINISTRATIVE CODE (CAC), 2019 CALIFORNIA BUILDING CODE (CBC), 2019 CALIFORNIA FIRE CODE (CFC), 2019 CALIFORNIA MECHANICAL CODE (CMC), 2019 CALIFORNIA PLUMBING CODE (CPC), 2019 CALIFORNIA ELECTRICAL CODE (CEC), 2019 CALIFORNIA ENERGY CODE (CNC), 2019 CALIFORNIA GREEN BUILDING CODE (CGC), NATIONAL FIRE PROTECTION ASSOCIATION (NFPA), OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA), AND ANY OTHER LOCAL CODES, ORDINANCES, REGULATIONS, OR AUTHORITIES HAVING JURISDICTION. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES OR OTHER CODES AND REGULATIONS APPLICABLE TO THIS PROJECT. THESE CODES SHALL DETERMINE MINIMUM REQUIREMENTS FOR MATERIALS, METHODS, AND LABOR PRACTICES NOT OTHERWISE DEFINED IN THESE SPECIFICATIONS.

2) CONTRACTOR TO EXAMINE THE PROPOSED WORK SITE AND BECOME FAMILIAR WITH ALL JOB CONDITIONS AFFECTING THE WORK SHOWN. CONTRACTOR(S) SHALL FIELD-VERIFY SITE CONDITIONS INCLUDING LOCATIONS AND SIZES OF EXISTING PIPING, VALVES, CLEANOUTS, WASTE MAINS, GAS METERS, ETC., AND BIDS SHALL BE BASED ON ACTUAL FIELD CONDITIONS. NO ADDITIONAL ALLOWANCE WILL BE GRANTED DUE TO LACK OF KNOWLEDGE OF SITE CONDITIONS. ACCEPT SOLE AND COMPLETE RESPONSIBILITY FOR CONDITIONS OF THE JOBSITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK.

3) DRAWINGS INDICATE DIAGRAMMATICALLY THE ARRANGEMENT OF PRINCIPAL APPARATUS, PIPING, DUCTWORK, AND OTHER MATERIAL. FOLLOW DRAWING AS CLOSELY AS POSSIBLE IN ORDER TO ACHIEVE A NEAT INSTALLATION WHILE STILL WORKING AROUND ANY OBSTRUCTIONS. INSPECT SITE CONDITIONS AFFECTING THE WORK AND PROVIDE FITTINGS AND ACCESSORIES AS REQUIRED TO MEET CONDITIONS WHETHER SHOWN OR NOT.

4) IT IS NOT THE INTENTION OF THE PLANS AND SPECIFICATIONS TO COVER ALL INCIDENTALS REQUIRED TO PROVIDE COMPLETE AND FULLY-OPERATIONAL SYSTEMS. THE CONTRACTOR IS TO FURNISH ALL LABOR, MATERIALS, TRANSPORTATION, EQUIPMENT, MISCELLANEOUS SERVICES, ETC., REQUIRED TO ACCOMPLISH THIS RESULT. ANYTHING WHICH MAY BE REASONABLY CONSTRUED AS A NECESSARY PART OF THE INSTALLATION SHALL BE INCLUDED, WHETHER SPECIFICALLY SHOWN OR MENTIONED OR NOT. ENGINEER WILL PROVIDE INTERPRETATIONS UPON REQUEST.

5) DEFINITIONS:
a. WORK: LABOR AND MATERIALS OF THE CONTRACTOR AND/OR SUBCONTRACTOR.
b. FURNISH: OBTAIN, COORDINATE, SUBMIT THE NECESSARY DRAWINGS, DELIVER TO THE JOBSITE IN NEW CONDITION AND GUARANTEE.
c. PROVIDE: FURNISH AND INSTALL.
d. CONNECT: BRING SERVICE TO THE EQUIPMENT AND MAKE FINAL ATTACHMENTS INCLUDING NECESSARY PIPE FITTINGS, DUCTWORK, TRANSITIONS, ETC.
e. CONCEALED: HIDDEN FROM SIGHT IN CHASES, FURRED SPACES, SHAFTS, ABOVE CEILING, EMBEDDED IN CONSTRUCTION, IN CRAWL SPACES, OR BURIED.
f. EXPOSED: NOT INSTALLED UNDERGROUND OR CONCEALED AS DEFINED ABOVE.
g. PERFORMANCE: CONTRACTOR SHALL PERFORM ALL WORK SPECIFIED, INDICATED, AND REQUIRED UNLESS OTHERWISE NOTED, INCLUDING FINAL CONNECTIONS, IN A WORKMANLIKE MANNER USING WORKERS SKILLED AND EXPERIENCED IN THE TRADE. PIPES, FITTINGS, EQUIPMENT, GRILLES, REGISTERS, ETC. TO BE INSTALLED LEVEL, SQUARE, OR CENTERED, ETC. TO GIVE A NEAT APPEARANCE.
h. FULL FUNCTION: PROVIDE ALL MINOR ITEMS NECESSARY FOR A COMPLETE AND FULLY FUNCTIONAL INSTALLATION.

6) CONTRACTOR SHALL CONFIRM ALL SITE VOLTAGES BEFORE BIDDING AND ORDERING EQUIPMENT. REIMBURSE ELECTRICAL CONTRACTOR, AT NO CHARGE TO CLIENT, FOR ELECTRICAL CONTRACTOR'S COST INCURRED DUE TO SUBSTITUTION OF MECHANICAL EQUIPMENT HAVING ELECTRICAL REQUIREMENTS DIFFERING FROM SITE CONDITIONS.

7) CONTRACTOR SHALL PROVIDE THE OWNER WITH COPIES OF OPERATION, MAINTENANCE, AND PREVENTATIVE MAINTENANCE MANUALS FOR EACH MODEL AND TYPE OF PLUMBING AND MECHANICAL EQUIPMENT.

8) CONTRACTOR SHALL PROVIDE EVIDENCE OF LICENSING, BONDING, AND INSURANCE, AND PROVIDE OTHER NECESSARY ADMINISTRATIVE FUNCTIONS FOR CONTRACTOR'S WORK.

9) CONTRACTOR SHALL PROCURE AND PAY FOR ALL REQUIRED PERMITS AND SERVICE CHARGES.

10) COORDINATION: CONFORM TO GENERAL CONSTRUCTION CONTRACT DOCUMENTS EXCEPT AS MODIFIED HEREIN. REFER ALSO TO STRUCTURAL AND ELECTRICAL CONTRACT DOCUMENTS. COORDINATE ALL WORK WITH OTHER TRADES.

11) CUTTING AND PATCHING: CUT AND PATCH AS REQUIRED. CUT OR WELD STRUCTURAL MEMBERS ONLY WITH APPROVAL OF A STRUCTURAL ENGINEER. PATCHING SUBJECT TO ACCEPTANCE BY OWNER.

12) SAW CUT TRENCHES IN SLAB SHALL BE FULLY RESTORED AND REINFORCED TO PREVENT SAGGING. ROUGHEN SAW CUT EDGES PRIOR TO RE-POURING CONCRETE.

13) COORDINATE ALL WORK WITH OTHER TRADES TO PROVIDE A COMPLETE INSTALLATION. CONNECT ALL EQUIPMENT FURNISHED BY OTHERS AS REQUIRED. INSTALL ALL WORK TO CLEAR ARCHITECTURAL AND STRUCTURAL MEMBERS. INSTALL ALL ABOVE GRADE (OVERHEAD) PIPING AS HIGH AS PRACTICAL.

14) RESTORE ALL DAMAGE RESULTING FROM YOUR WORK AND LEAVE PREMISES IN CLEAN CONDITION WHEN FINISHED WITH WORK. ADJUST, CLEAN, REPAIR, OR REPLACE PRODUCTS, WHICH HAVE BEEN DAMAGED.

15) GUARANTEE ALL WORK AND MATERIALS FOR ONE YEAR MINIMUM FROM DATE OF FILING NOTICE OF COMPLETION.

16) PROVIDE FLASHING AND COUNTER FLASHING FOR ALL WALL AND ROOF PENETRATIONS.

17) ADJUSTMENTS: MAKE MINOR ADJUSTMENTS TO WORK WHERE REQUESTED BY OWNER, WHEN SUCH ADJUSTMENTS ARE NECESSARY TO PROPER OPERATION AND WITHIN THE INTENT OF THE CONTRACT.

18) MATERIALS AND EQUIPMENT: PROVIDE NEW, UL-LISTED, COMMERCIAL-GRADE MATERIALS, DEVICES, EQUIPMENT, AND FIXTURES SUITABLE FOR THE ENVIRONMENT WHERE INSTALLED. REUSE EXISTING ONLY WHEN COMPLIANT WITH THE CONTRACT DOCUMENTS, IN GOOD CONDITION, AND APPROVED BY THE ENGINEER.

19) INSTALLATION: INSTALL ALL MATERIALS, EQUIPMENT, AND SYSTEMS IN FULL ACCORD WITH MANUFACTURER'S INSTRUCTIONS.

20) LAYOUT: INSTALL ALL PIPING AND DUCTWORK TO PRESENT A NEAT AND ORDERLY APPEARANCE. RUN ALL LINES PARALLEL WITH BUILDING CONSTRUCTION AS MUCH AS POSSIBLE. MAINTAIN HEADROOM, EQUIPMENT CLEARANCE, AND GRADIENT WHERE REQUIRED. ALLOW FOR EXPANSION & CONTRACTION.

21) ACCESS DOORS: PROVIDE ACCESS DOORS OR PANELS FOR ALL VALVES, CLEANOUTS, DAMPERS, CONTROLS, DEVICES, AND OTHER ITEMS REQUIRING INSPECTION OR MAINTENANCE.

22) START-UP: THOROUGHLY TEST/DEMONSTRATE PROPER OPERATION OF ALL SYSTEMS AND EQUIPMENT MODIFIED, FURNISHED OR INSTALLED UNDER THIS CONTRACT.

23) WARRANTY: ALL MATERIALS AND EQUIPMENT INSTALLED UNDER THIS CONTRACT SHALL BE GUARANTEED FREE FROM ALL MECHANICAL, ELECTRICAL, AND WORKMANSHIP DEFECTS FOR A MINIMUM OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES TO THE PREMISES CAUSED BY LEAKS AND/OR BREAKS IN PIPES AND FIXTURES INSTALLED UNDER THIS CONTRACT, AS WELL AS ANY DAMAGE FROM LEAKS VIA ROOF PENETRATIONS MADE AND SEALED UNDER CONTRACTOR'S SCOPE.

24) PATCHING & PAINTING: RESTORE ANY DAMAGE RESULTING FROM THE WORK AND LEAVE PREMISES CLEAN. ADJUST, CLEAN, REPAIR, AND/OR REPLACE ANY ITEMS DAMAGED BY THE WORK. RESTORE WALL AND ROOF PENETRATIONS TO MATCH SURROUNDING WALL OR ROOF, RESPECTIVELY.

25) AIR BALANCE: PROVIDE SERVICES NECESSARY TO VERIFY AIR QUANTITIES AND BALANCE FOR ESTABLISHED QUANTITIES AND UNIFORM TEMPERATURE IN THE SPACES SERVED. ADJUST ALL DAMPERS AND ELEMENTS IN GRILLES AND DIFFUSERS FOR PROPER AIR DISTRIBUTION AND TO MINIMIZE DRAFTS. COMPLY WITH SMACNA MANUAL FOR THE BALANCING AND ADJUSTMENT OF AIR DISTRIBUTION SYSTEMS.

26) DUCTWORK SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE SMACNA LOW PRESSURE DUCT CONSTRUCTION STANDARD.

27) ALL SUPPLY BRANCH DUCTS SHALL HAVE MANUAL VOLUME BALANCING DAMPERS WITH ACCESSIBLE LOOKING TYPE QUADRANT

28) PROVIDE CONICAL FITTINGS FOR ALL ROUND TO RECTANGULAR DUCTWORK CONNECTIONS

29) PROVIDE TURNING VANES FOR RECTANGULAR DUCTWORK AT ALL HARD 90 DEGREE ELBOWS

31) DUCTWORK SHALL MEET UL 181, CLASS 1 AND NFPA 90A AND 90B. DUCT SHALL BE INSTALLED STRAIGHT AND SUPPORT SPACING SHALL BE IN STRICT ACCORDANCE WITH "SMACNA HVAC DUCT CONSTRUCTION STANDARDS, METAL AND FLEXIBLE". FLEXIBLE DUCTWORK TO BE 5' MAX LENGTH, AND SHALL BE EXTENDED TO THE FULLEST POSSIBLE LENGTH, IN ORDER TO MINIMIZE PRESSURE DROP IN THE DUCT. EXCESS DUCT LENGTHS SHALL BE SHORTENED TO PREVENT UNNECESSARY CHANGES IN DIRECTIONS. WHERE ABRUPT CHANGES IN DIRECTION ARE UNAVOIDABLE, USE ADJUSTABLE SHORT RADIUS SHEET METAL ELBOWS TO MAKE DIRECTION CHANGES. CONNECTIONS AT METAL DUCTS OR COLLARS SHALL BE MADE BY DRAW BANDS AND PRESSURE-SENSITIVE TAPE WITH THE DRAW BANDS TIGHTENED AS RECOMMENDED BY THE MANUFACTURER WITH AN ADJUSTABLE TENSIONING TOOL. USING PRESSURE-SENSITIVE TAPE ALONE WITHOUT DRAW BANDS IS NOT ACCEPTABLE. ALL PRESSURE-SENSITIVE TAPES AND MASTICS USED SHALL COMPLY WITH UL 181.

32) HVAC EQUIPMENT SHALL NOT BE OPERATED DURING CONSTRUCTION WITHOUT A FILTER INSTALLED TO PROTECT THE EVAPORATOR COIL. AFTER ALL CONSTRUCTION IS COMPLETED, ALL CONSTRUCTION FILTERS SHALL BE REMOVED AND NEW FILTERS SHALL BE INSTALLED.

33) HVAC EQUIPMENT SHALL BE CERTIFIED BY THE MANUFACTURER FOR COMPLIANCE WITH CALIFORNIA ENERGY COMMISSION STANDARDS.

GRILLE SCHEDULE						
TAG	TYPE	MANU.	MODEL	MOUNTING LOCATION	FRAME	REMARKS
CD-1	CEILING DIFFUSER – TYPE 1	LIMA	1234	CEILING	LAY IN	24"x24" MODULE, 4-WAY DEFLECTION, SEE PLANS FOR NECK SIZE
CR-1	CEILING RETURN	LIMA	1230	CEILING	LAY IN	24"x24" MODULE, SEE PLANS FOR NECK SIZE

KITCHEN EXHAUST FAN SCHEDULE												
TAG	MANU.	MODEL	LOCATION	SERVES	CFM	E.S.P.	RPM	ELECTRICAL			WEIGHT (LBS.)	REMARKS
								VOLTAGE	AMPS	HP		
KEF-1	ACCUREX	XRUD-099-VG	ROOF	KH-1	600	1.157"	1,725	208-1φ-60Hz	3.2	0.25	50	NEW ROOF MOUNTED FAN, TO BE INTERLOCKED WITH FC-1

KITCHEN HOOD SCHEDULE															
TAG	MANU.	MODEL	DIMENSIONS (LxWxH)	EXHAUST RISER		FILTERS				LIGHT(S)		HOOD CONSTRUCTION	WEIGHT (LBS.)	REMARKS	
				CFM	QTY.	DIMENSIONS	TYPE	QTY	HEIGHT	LENGTH	QTY	TYPE			
KH-1	ACCUREX	XXEW-42-S	42"x42"x24"	600	1	6"x10"	X-TRACTOR STAINLESS STEEL	2	20"	20"	1	100W A19	430 SS	112	NEW TYPE I KITCHEN HOOD, UL710 LISTED, SEE KITCHEN HOOD DRAWINGS

HEAT PUMP CONDENSER SCHEDULE																									
TAG	MANU.	MODEL	LOCATION	SERVES	TONS	REF.	SUCTION TEMP.	COOLING					HEATING		CONDENSER		COMPRESSOR		ELECTRICAL			SEER (EER)	COP (HSPF)	WEIGHT (LBS.)	REMARKS
								TOTAL MBH	SENSIBLE MBH	EDB	EWB	AMB	MBH	EDB	QTY.	FLA (EA)	QTY.	RLA (EA)	VOLTAGE	MCA	MOCP				
HP-1	GOODMAN	GSZ140601K	ROOF	FC-1	5.0	R-410A	45°F	54.0	44.4	80°F	67°F	105°F	59.0	60°F	1	1.5	1	26.4	208-1ø-60Hz	34.5	60	14.0 (11.5)	3.86 (6.5)	277	MOUNTED ON SLEEPERS

FAN COIL SCHEDULE															
TAG	MANU.	MODEL	LOCATION	SERVES	TONS	CFM	MIN. OSA	E.S.P.	BLOWER FAN	ELECTRICAL				WEIGHT (LBS.)	REMARKS
										HP	VOLTAGE	FLA	MCA	MOCP	
FC-1	GOODMAN	ASP761D14A	ABOVE CEILING	KITCHEN	5.0	2,000	600	0.5"	1.0	208-1φ-60Hz	6.9	8.6	15	167	4" PLEATED FILTERS (MERV 13), TO BE INTERLOCKED WITH KEF-1

TAG	SUPPLY AIR	OUTSIDE AIR	EXHAUST AIR	RETURN AIR	MAKEUP	
HP-1	2,000	600	—	1,400	AC OSA	600
EF-1	—	—	600	—	FAN MAKEUP	0
						600 CFM
					EXHAUST	
					HOODS	—600
					GENERAL	0
						—600 CFM
					BALANCE RESULTS	
					MAKEUP	600
					EXHAUST	—600
BLDG TOTAL	2,000 CFM	600 CFM	600 CFM	1,400 CFM		0 CFM

E-MAIL AIR BALANCE REPORT FOR THE HOOD AT EHPLANREVIEW@SACCOUNTY.GOV BEFORE FINAL INSPECTION

MECHANICAL CALGREEN NOTES

5.504.1 THE PERMANENT HVAC SYSTEM SHALL ONLY BE USED DURING CONSTRUCTION IF NECESSARY TO CONDITION THE BUILDING OR AREAS OF ADDITION OR ALTERATION WITHIN THE REQUIRED TEMPERATURE RANGE FOR MATERIAL AND EQUIPMENT INSTALLATION. IF THE HVAC SYSTEM IS USED DURING CONSTRUCTION, USE RETURN AIR FILTERS WITH A MINIMUM EFFICIENCY REPORTING VALUE (MERV) OF 8, BASED ON ASHRAE 52.2-1999, OR AN AVERAGE EFFICIENCY OF 30 PERCENT BASED ON ASHRAE 52.1-1992. REPLACE ALL FILTERS IMMEDIATELY PRIOR TO OCCUPANCY, OR, IF THE BUILDING IS OCCUPIED DURING ALTERATION, AT THE CONCLUSION OF CONSTRUCTION.

5.504.3 AT THE TIME OF ROUGH INSTALLATION OR DURING STORAGE ON THE CONSTRUCTION SITE AND UNTIL FINAL STARTUP OF THE HEATING AND COOLING EQUIPMENT, ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEET METAL OR OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY TO REDUCE THE AMOUNT OF DUST OR DEBRIS WHICH MAY COLLECT IN THE SYSTEM.

5.504.5.3 IN MECHANICALLY VENTILATED BUILDINGS, PROVIDE REGULARLY OCCUPIED AREAS OF THE BUILDING WITH AIR FILTRATION MEDIA FOR OUTSIDE AND RETURN AIR PRIOR TO OCCUPANCY THAT PROVIDES AT LEAST A MERV OF 13.

5.505.1 BUILDINGS SHALL MEET OR EXCEED THE PROVISIONS OF CALIFORNIA BUILDING CODE, CCR, TITLE 24, PART 2, SECTIONS 1202 AND CHAPTER 14.

5.506.1 FOR MECHANICALLY OR NATURALLY VENTILATED SPACES IN BUILDINGS, MEET THE MINIMUM REQUIREMENTS OF SECTION 120.1 OF THE CALIFORNIA ENERGY CODE, CCR, TITLE 24, PART 6 AND CHAPTER 4 OF CCR, TITLE 8 OR THE APPLICABLE LOCAL CODE, WHICHEVER IS MORE STRINGENT.

5.506.2 FOR BUILDINGS EQUIPPED WITH DEMAND CONTROL VENTILATION, CO2 SENSORS AND VENTILATION CONTROLS SHALL BE SPECIFIED AND INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE CALIFORNIA ENERGY CODE, CCR, TITLE 24, PART 6, SECTION 120.1(C)(4).

5.508.1 INSTALLATIONS OF HVAC, REFRIGERATION AND FIRE SUPPRESSION EQUIPMENT SHALL COMPLY WITH SECTIONS 5.508.1.1 AND 5.508.1.2

5.508.1.1 CHLOROFLUOROCARBONS (CFCs). INSTALL HVAC AND REFRIGERATION EQUIPMENT THAT DOES NOT CONTAIN CFCs.

5.508.1.2 HALONS. INSTALL FIRE SUPPRESSION EQUIPMENT THAT DOES NOT CONTAIN HALONS.

5.410.4.5 PROVIDE THE BUILDING OWNER WITH DETAILED OPERATING AND MAINTENANCE INSTRUCTIONS AND COPIES OF GUARANTEES/WARRANTIES FOR EACH SYSTEM PRIOR TO FINAL INSPECTION.

5.410.4 TESTING AND ADJUSTING OF SYSTEMS SHALL BE REQUIRED FOR BUILDINGS LESS THAN 10,000 SQUARE FEET OR NEW SYSTEMS TO SERVE AN ADDITION OR ALTERATION SUBJECT TO SECTION 303.1.

5.410.4.3.1 BEFORE A NEW SPACE-CONDITIONING SYSTEM SERVING A BUILDING OR SPACE IS OPERATED FOR NORMAL USE, THE SYSTEM SHOULD BE BALANCED IN ACCORDANCE WITH THE PROCEDURES DEFINED BY NATIONAL STANDARDS LISTED IN SECTION 5.410.4.3.1.

RIGID DUCT SCHEDULE			
TYPE	DUCT SIZE (IN.)	MINIMUM THICKNESS (IN.)	GALVANIZED GAUGE NO.
ROUND	≤14	0.0157	28
	16-18	0.0187	26
	>20	0.0236	24
RECTANGULAR	≤14	0.0157	28
	>14	0.0187	26

MECHANICAL SHEET INDEX	
M0	MECHANICAL SCHEDULES & GENERAL NOTES
M1	MECHANICAL PLAN
M2	MECHANICAL DETAILS
M3	MECHANICAL HOOD DRAWINGS
M4	MECHANICAL HOOD DRAWINGS
M5	MECHANICAL HOOD DRAWINGS
M6	MECHANICAL HOOD DRAWINGS
EN0	TITLE 24 ENERGY
EN1	TITLE 24 ENERGY

MECHANICAL SCOPE OF WORK	
1)	INSTALLATION OF NEW SPLIT UNIT AND ALL ASSOCIATED PIPING, DUCTWORK AND GRILLES
2)	INSTALLATION OF NEW KITCHEN HOOD, EXHAUST FAN, AND ALL ASSOCIATED PIPING AND FITTINGS

MECHANICAL LEGEND	
	POC
	GAS POC
	COLD WATER POC
	CONDENSATE POC
	POWER AND CONTROL WIRING
	SWITCH
	THERMOSTAT
	CO2 SENSOR
	FLEX DUCT
	DAMPER
	DUCT REDUCER
	CEILING DIFFUSER – TBAR
	CEILING DIFFUSER – HARDILD
	SIDE/SPIRAL DIFFUSER/RETURN
	SLOT DIFFUSER/RETURN
	CEILING RETURN – TBAR
	CEILING RETURN – HARDILD
	EXHAUST GRILLE – TBAR
	EXHAUST GRILLE – HARDILD
	CEILING FIRE-SMOKE DAMPER
	FIRE-SMOKE DAMPER
	SUPPLY AIR
	RETURN AIR
	EXHAUST AIR
	DIAMETER
AC	AIR CONDITIONING
O.C.	ON CENTER
CFM	CUBIC FEET PER MINUTE
FD	FIRE DAMPER
FSD	FIRE SMOKE DAMPER
GA.	GAUGE
GPM	GALLONS PER MINUTE
HP	HORSEPOWER
BHP	BRAKE HORSEPOWER
MAX. / MIN.	MAXIMUM / MINIMUM
N.T.S.	NOT TO SCALE
OSA	OUTSIDE AIR
RA	RETURN AIR
SA	SUPPLY AIR
SMS	SHEET METAL SCREW
TYP.	TYPICAL
FA.	FROM ABOVE
TB.	TO BELOW

DATE06-03-2020

DESCRIPTIONPC #1

REVISIONA

JOB NO.20045

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ORIGINAL DATE03-13-2020

ISSUED FORPERMIT

DATE06-03-2020

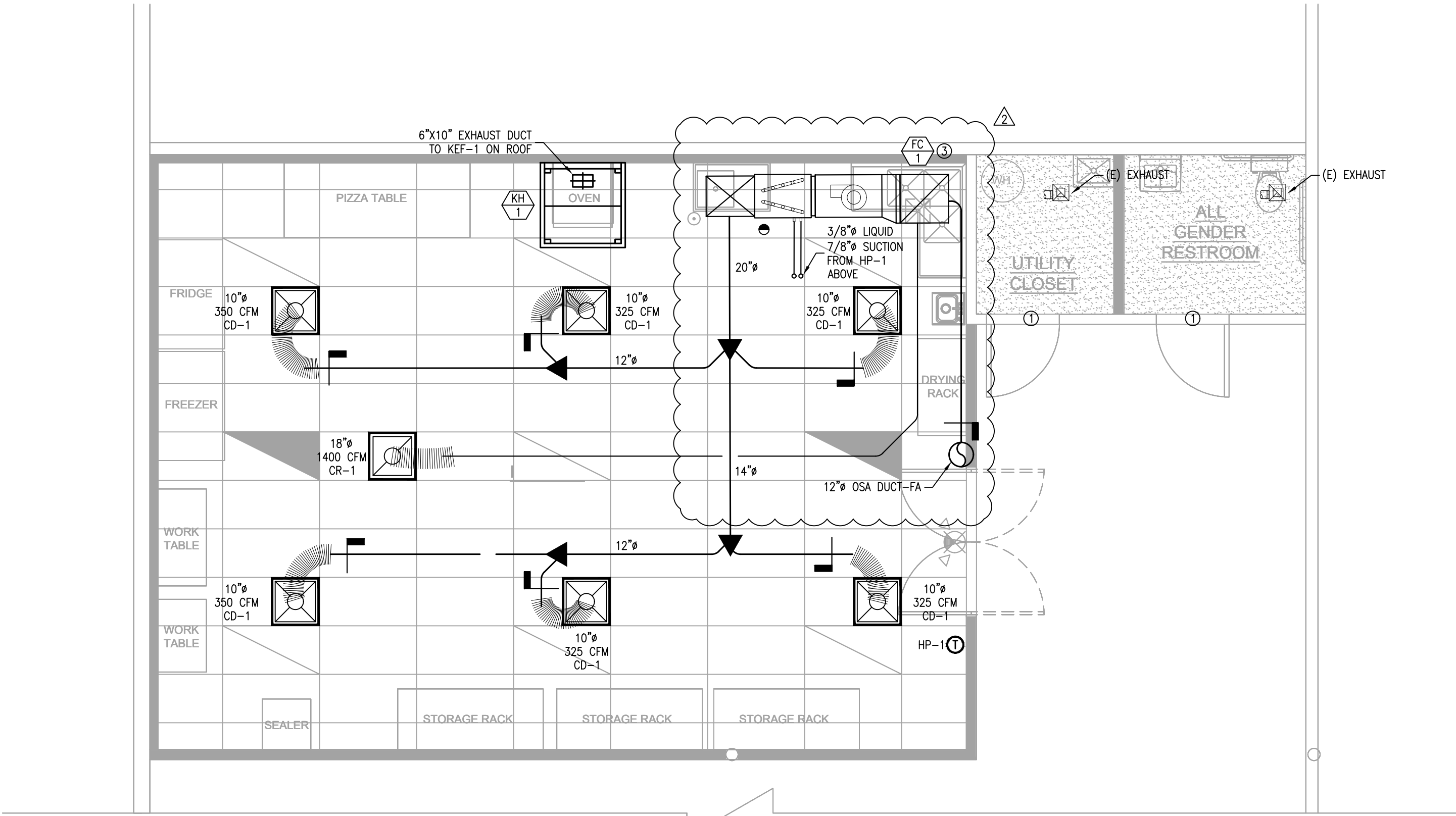
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5710 AUBURN BLVD. UNIT 22

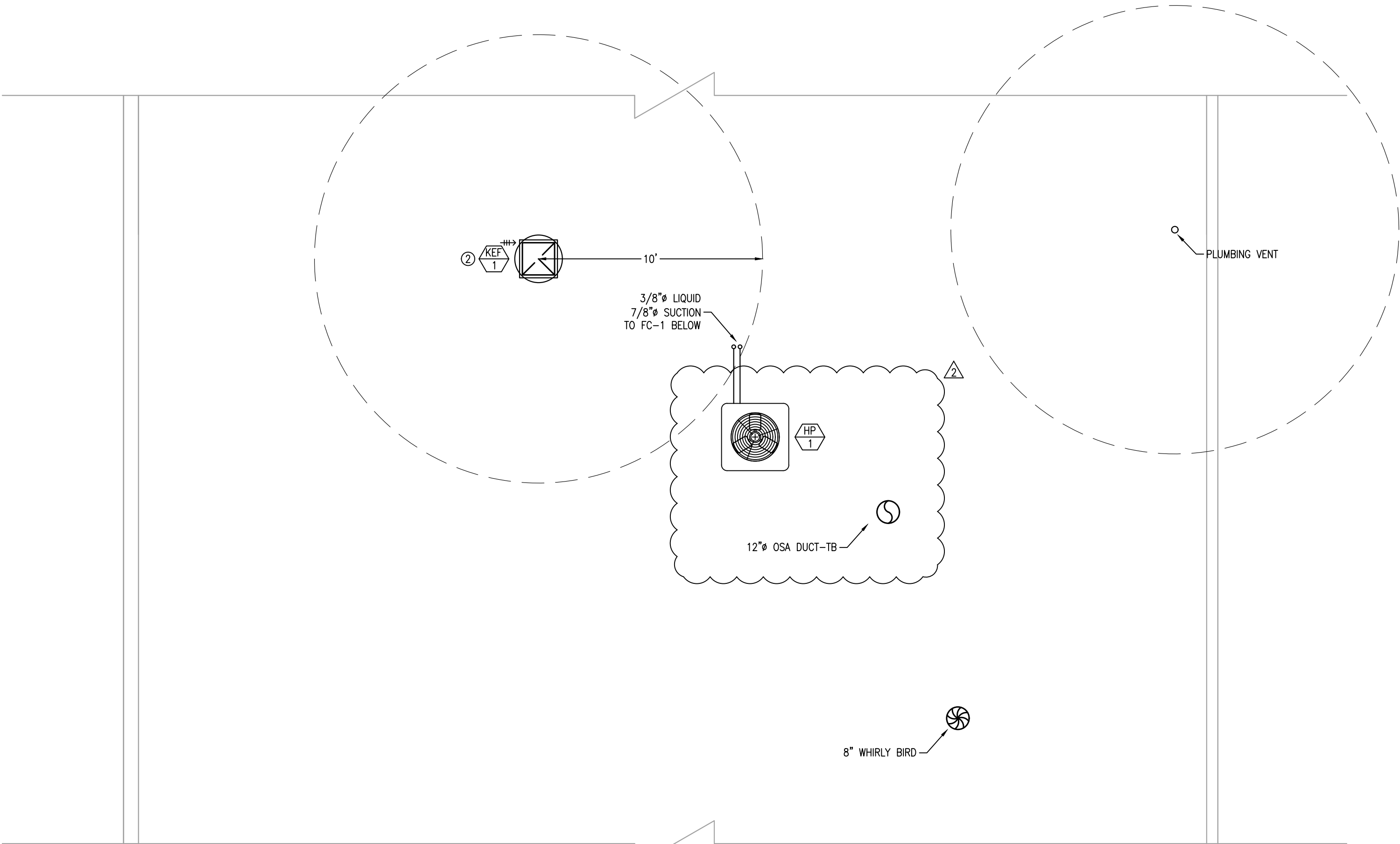
SACRAMENTO, CA 95841

SHEET TITLEMECHANICAL SCHEDULES & GEN. NOTES

SHEET NO.M0



A MECHANICAL PLAN - FLOOR
SCALE: 1/4"=1'-0"



B MECHANICAL PLAN - ROOF
SCALE: 1/4"=1'-0"

- SHEET NOTES:**
- (E) EXISTING
(N) NEW
(R) RELOCATED
(D) DEMO
 - ALL EQUIPMENT/CONTROLS AND DUCTWORK/FITTINGS ARE (N) U.O.N.
 - HVAC EQUIPMENT SHALL BE PERMANENTLY IDENTIFIED AS TO THE AREA OR SPACE SERVED BY THE EQUIPMENT PER CMC 303.6
 - THERMOSTATS TO BE INSTALLED AT 48" A.F.F. (TOP OF THERMOSTAT). DO NOT INSTALL THERMOSTATS OVER CASEWORK OR SHELVING OVER 24" IN DEPTH AND 34" IN HEIGHT
 - ALL DUCTWORK PENETRATIONS TO THE EXTERIOR OF BUILDING SHALL BE CORROSION-RESISTANT AND PROTECTED FROM INTRUSION BY WATER, INSECTS, ETC.
 - CONCEALED DUCTWORK SHALL BE RIGID GALVANIZED METAL PER CMC 603.3 AND 603.4. SEE RIGID DUCTWORK CONSTRUCTION SCHEDULE FOR GAUGE. DUCTWORK SHALL BE INSULATED WITH MINIMUM R-4.2. FLEX DUCT CONNECTORS PER CMC 603.5 SHALL BE PERMITTED FROM RIGID DUCTWORK TO A TERMINAL DEVICE AND SHALL BE <5 FT IN LENGTH PER CMC 603.4.1
 - SPLIT SYSTEM HVAC UNITS AND HORIZONTAL DISCHARGE PACKAGED HVAC UNITS SHALL BE INSTALLED WITH FLEX CONNECTORS FROM UNIT TO DUCTWORK
 - EQUIPMENT IN ATTICS AND UNDER-FLOOR SPACES SHALL BE PROVIDED WITH AN ACCESS OPENING LARGE ENOUGH TO REMOVE THE LARGEST PIECE OF EQUIPMENT BUT NO LESS THAN 22"x30" PER CMC 304.3
 - FRESH AIR INLETS SHALL BE A MINIMUM 10 FT CLEARANCE FROM ALL EXHAUST, FLUE, AND PLUMBING OUTLETS, UNLESS INSTALLED 3 FT OR MORE BELOW OUTLETS
 - GREASE DUCT REQUIREMENTS PER 2019 CMC 510:
 - DUCT SYSTEMS SERVING A TYPE I HOOD SHALL BE SO CONSTRUCTED AND INSTALLED THAT GREASE CANNOT BECOME POCKETED IN ANY PORTION THEREOF
 - THE SYSTEM SHALL SLOPE NOT LESS THAN 1/8" INCH PER LINEAL FOOT TOWARD THE HOOD OR TOWARD AN APPROVED GREASE RESERVOIR
 - BRAACING AND SUPPORTS SHALL BE OF NONCOMBUSTIBLE MATERIALS.
 - PROVIDE GREASE DUCT CLEANOUT PER CMC 510. PROVIDE OPENING FOR THOROUGH CLEANING PER CMC 510.3.3
 - INSTALL 3M FIRE WRAP OR EQUIVALENT ON ALL GREASE DUCTS. SEE DETAIL
 - GREASE DUCT CONSTRUCTION PER 2019 CMC 510:
 - MATERIAL: STAINLESS STEEL
 - GAUGE: MIN. 18 GAUGE
 - SEAMS, JOINTS, PENETRATIONS: LIQUID-TIGHT CONTINUOUS EXTERNAL WELD
 - ALL LISTED HOOD ASSEMBLIES TO BE INSTALLED PER THEIR LISTING PER CMC 508.6
 - ALL MAKE-UP AIR FOR THE KITCHEN HOOD AREA SHALL AUTOMATICALLY SHUT DOWN WITH THE OPERATION OF THE FIRE SUPPRESSION SYSTEM. CFC 904.3.3
 - THE EXHAUST VENTILATION FOR THE KITCHEN AREA SHALL REMAIN ON WITH THE OPERATION OF THE FIRE SUPPRESSION SYSTEM.

- KEY NOTES:**
- UNDERCUT DOOR FOR EXHAUST MAKEUP AIR
 - THE EXHAUST VENTILATION FOR THE KITCHEN HOOD SHALL REMAIN ON WITH THE OPERATION OF THE FIRE SUPPRESSION SYSTEM. CFC 904.3.3
 - FAN COIL LOCATED ABOVE CEILING



DATE	DESCRIPTION	REVISION	JOB NO.	DRAWN	CHECKED	ORIGINAL DATE
06-03-2020	PC #1	Δ	20045			03-13-2020

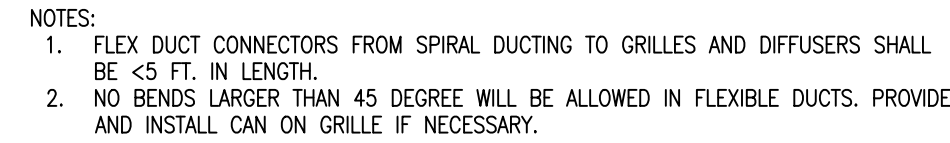
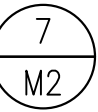
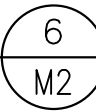
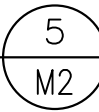
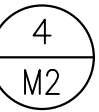
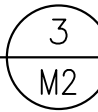
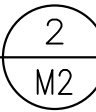
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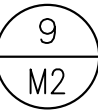
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5710 AUBURN BLVD. UNIT 22
SACRAMENTO, CA 95841

SHEET TITLE
MECHANICAL PLAN

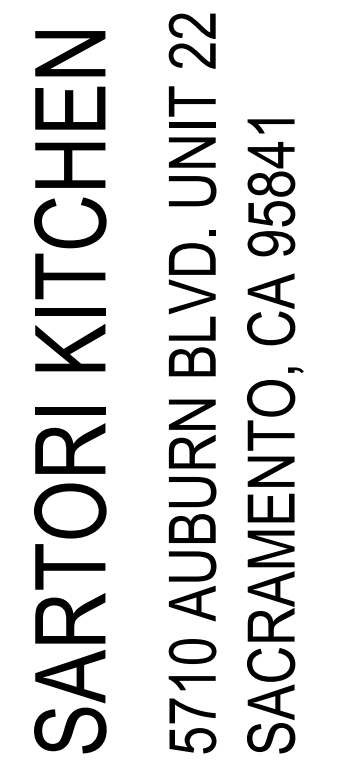
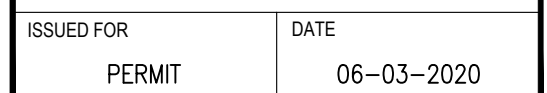
SHEET NO.
M1


$$\frac{1}{M2}$$


8
M2



JOB NO.	20045
DRAWN	
CHECKED	
ORIGINAL DATE	03-13-2020



M2

HOOD INFORMATION																	
HOOD NO.	MARK	MODEL	HOOD DIMENSIONS (IN.)			HOOD CONSTR.	COOKING LOAD / DUTY RATING	EXHAUST						SUPPLY		TOTAL WEIGHT LBS.	SECTION LOCATION
			LENGTH	WIDTH	HEIGHT			COLLAR(S)					MUA CFM	AC CFM			
								WIDTH	LENGTH	DIA.	CFM	S.P.					
1	KH-1	XXEW-42-S	42	42	24	430 SS WHERE EXPOSED	MEDIUM	600	6	10		600	0.418			112	SINGLE

HOOD INFORMATION													
HOOD NO.	MARK	LIGHTING DETAILS				GREASE FILTRATION DETAILS				UTILITY CABINET(S)			
		FIXTURE TYPE	BULB / LAMP INFO	QTY	FOOT CANDLES	TYPE / MODEL	MATERIAL	QTY	SIZE (IN.)	LOCATION	FIRE SYSTEM		CONTROLS
1	KH-1	INCANDESCENT (GLOBE)	100W A19 (BULBS NOT INCL.)	1	36.02	X-TRACTOR	STAINLESS STEEL	0	16		TYPE	SIZE	MODEL
								2	20	RIGHT	ANSUL R102	1.5	XFCC

HOOD OPTIONS

UL 710 LISTED W/ OUT EXHAUST FIRE DAMPER - UL #R25625

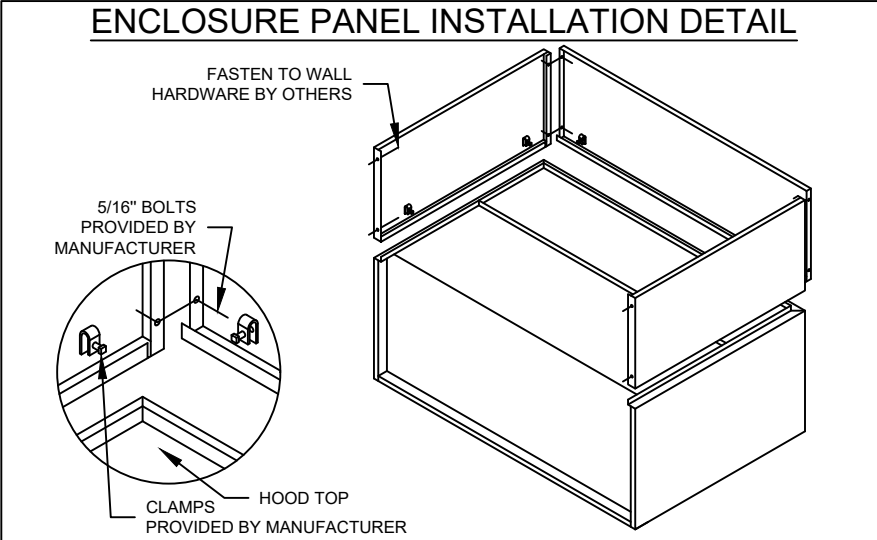
BACK INTEGRAL AIR SPACE - 3 IN WIDE

16 IN HIGH CEILING ENCLOSURES - FRONT LEFT RIGHT - FIELD INSTALLED

FACTORY MOUNTED EXHAUST COLLAR(S)

PERFORMANCE ENHANCING LIP (PEL) TECHNOLOGY

STANDING SEAM CONSTRUCTION FOR SUPERIOR STRENGTH

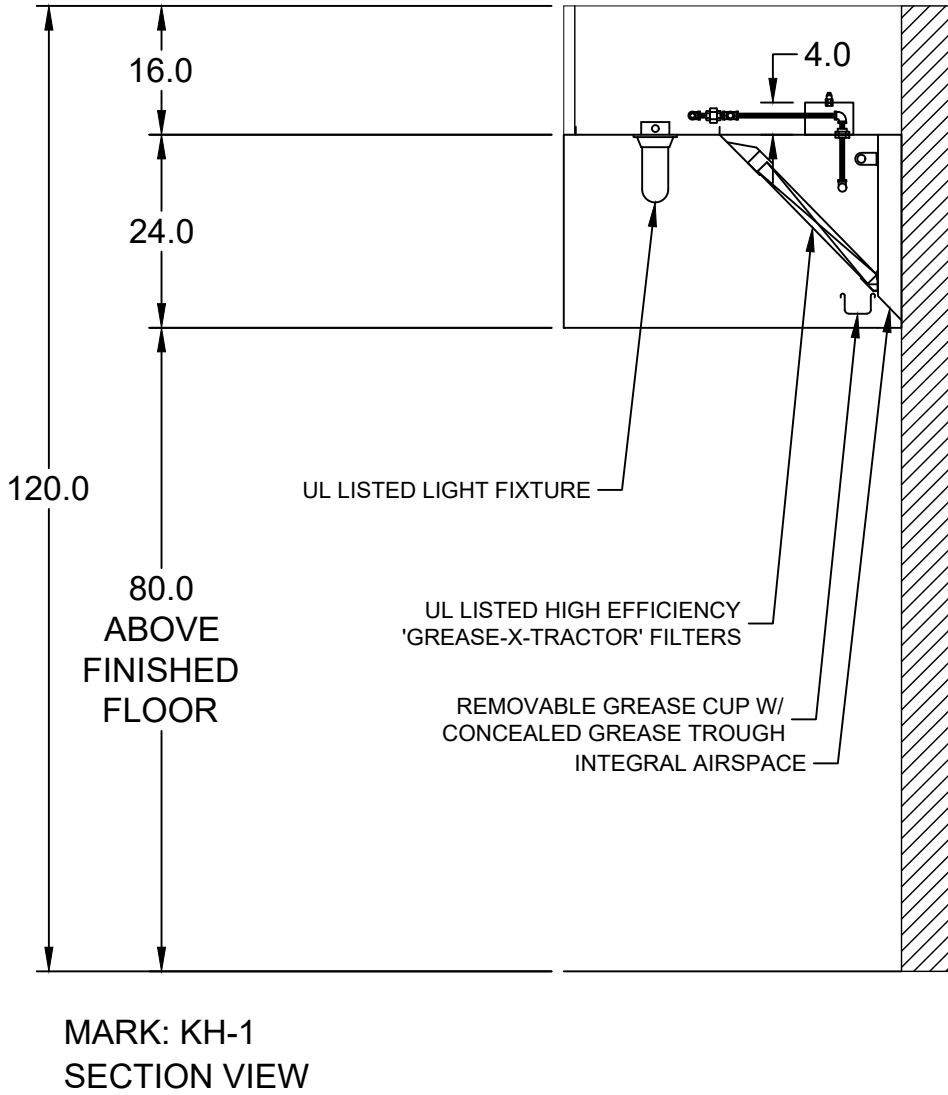
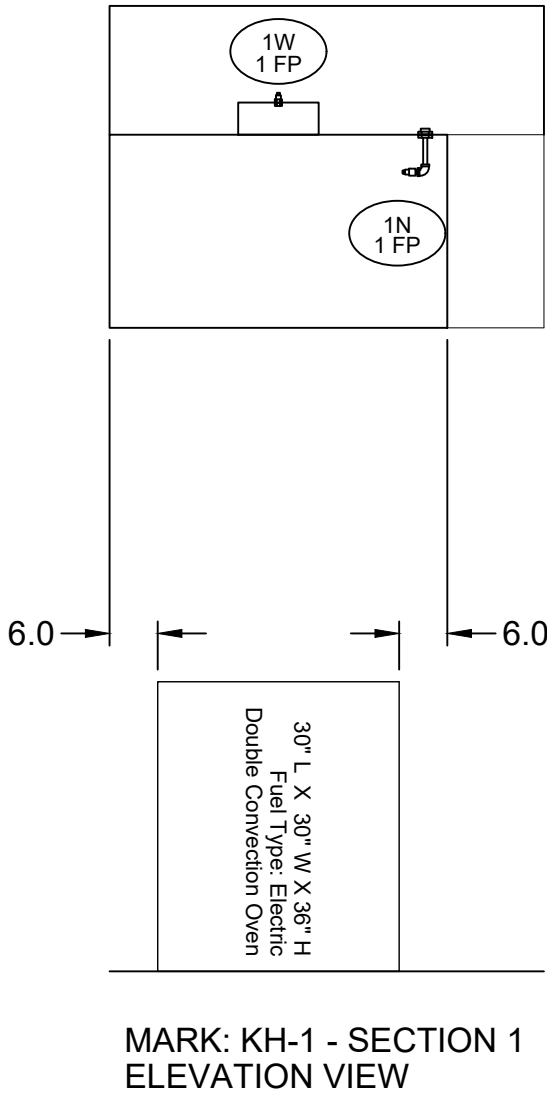
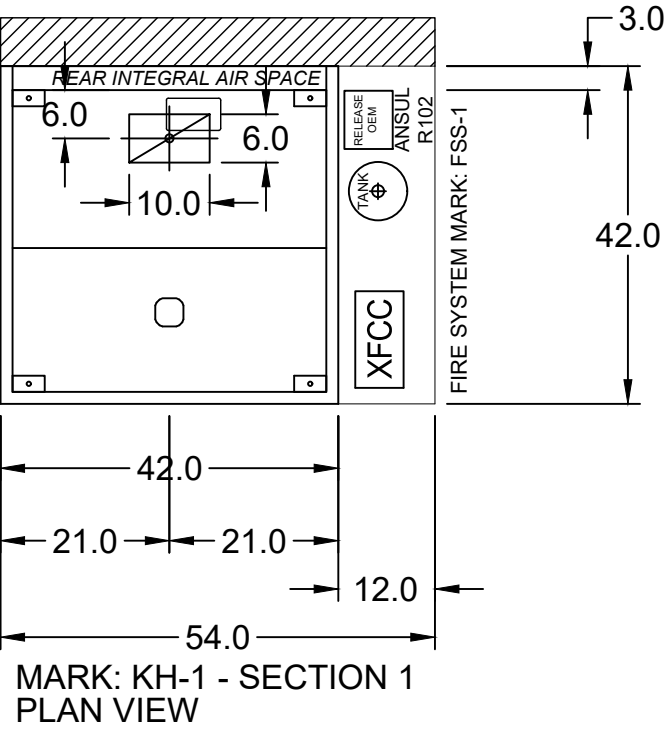
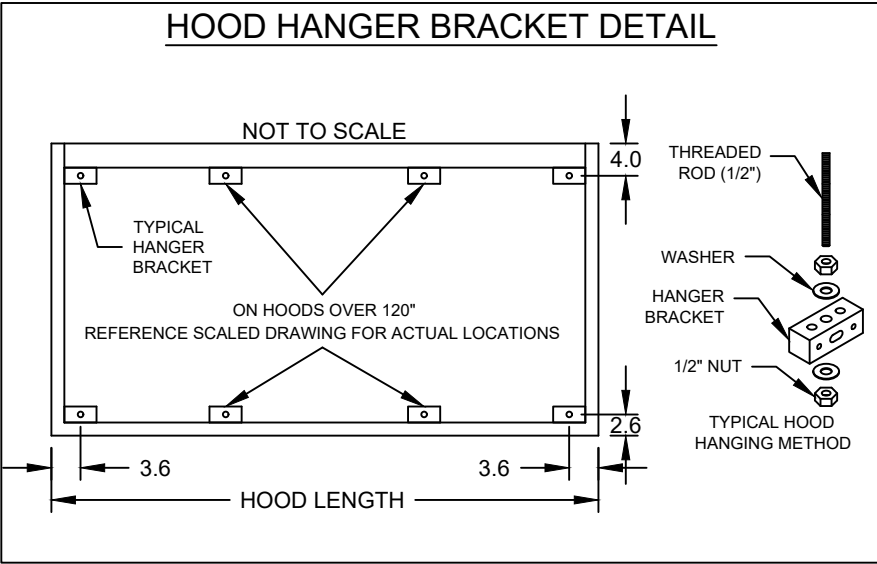


HOOD HANGING HEIGHT FOR FIRE SYSTEMS

VERIFICATION OF HOOD HANGING HEIGHT ABOVE FINISHED FLOOR (A.F.F.) IS REQUIRED FOR CORRECT PLACEMENT OF FIRE SYSTEM NOZZLES.

☐ RECOMMENDED HANGING HEIGHT = 80" FROM FINISHED FLOOR TO LOWER FRONT EDGE OF HOOD.

☐ OTHER HANGING HEIGHT = _____" FROM FINISHED FLOOR TO LOWER EDGE OF HOOD.



PROJECT
2/25/2020

MARK

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ACCUREX

MEALPRO AUBURN BLVD -
SACRAMENTO



KH-1

DATE	DESCRIPTION	REVISION	JOB NO.	DRAWN	CHECKED	ORIGINAL DATE
06-03-2020	PC #1	A	20045			03-13-2020



ISSUED FOR	DATE
PERMIT	06-03-2020



SARTORI KITCHEN

5710 AUBURN BLVD. UNIT 22

SACRAMENTO, CA 95841

SHEET TITLE

MECHANICAL HOOD
DRAWINGS

SHEET NO.

M3

FIRE SYSTEM INFORMATION

MARK	MODEL	LOCATION	FLOW POINTS		SUPPLY LINE	DETECTION	MARK(S) PROTECTED BY FIRE SYSTEM
			HOODS	PCU			
FSS-1	ANSUL R-102 WET CHEMICAL	CABINET – RIGHT END OF KH-1	2 UTILIZED 5 AVAILABLE		CONTINUOUS	FUSIBLE LINK	KH-1 SECTION 1

FIRE SYSTEM OPTIONS AND ACCESSORIES

FULL INSTALLATION (INCLUDES PRE-PIPED HOOD(S) WITH DETECTION AND FACTORY COORDINATED INSTALL)
CHROME SLEEVES FOR FACTORY PROVIDED APPLIANCES DROPS - INCLUDED
METAL BLOW-OFF CAPS - INCLUDED
HOOD SUPPRESSION AGENT - INCLUDED - 1.5 GAL. - [(1) 1.5 TANK(S)]
REMOTE PULL STATION - STANDARD - INSTALLATION AT SINGLE POINT OF EGRESS

ANSUL R102 (WET CHEMICAL) FIRE PROTECTION SYSTEM - MODEL FSSC

CONTROL PANEL

NOT TO SCALE

NOTES:

WET CHEMICAL FIRE PROTECTION SYSTEM TO BE ANSUL R-102, DESIGNED IN COMPLIANCE WITH UL 300 REQUIREMENTS

- VERIFICATION OF ALL COOKING EQUIPMENT MAKE, MODEL AND LOCATION REQUIRED FOR ALL FIRE PROTECTION SYSTEMS.
- ALL FIRE SYSTEM PIPING IS STANDARDLY TO THE RIGHT END OF THE HOOD UNLESS A WALL IS LOCATED ON THE RIGHT END.
- ANSUL AUTOMAN RELEASE TO BE LOCATED WITHIN 60" OF HOOD.

THE BASIC FIRE SYSTEM WILL INCLUDE THE FOLLOWING:

- GAS SHUT-OFF VALVE, IF REQUIRED, TO BE SUPPLIED BY MANUFACTURER (UP TO 2" DIAMETER AS STANDARD), AND INSTALLED BY A LICENSED PLUMBER.
- MICRO SWITCH TO BE SUPPLIED BY MANUFACTURER FOR CONNECTION TO, BUT NOT LIMITED TO, BUILDING ALARM SYSTEM(S), EXHAUST AND SUPPLY FANS AND ELECTRICAL POWER SHUT DOWN. FIELD WIRING AND CONNECTIONS TO BE PERFORMED BY A LICENSED ELECTRICIAN.

THE BASIC FIRE SYSTEM DOES NOT INCLUDE THE FOLLOWING:

- FULL DUMP TEST OTHER THAN WHAT IS SPECIFIED PER THE INSTALLATION MANUAL, OR TO SATISFY A STATE OR LOCAL CODE. PERMIT AND TESTING FEES ARE NOT INCLUDED UNLESS NOTED UNDER THE EQUIPMENT SCHEDULE FOR THE FIRE SYSTEM.
- MORE THEN TWO TRIPS TO THE JOBSITE OR SPECIAL TRANSPORTATION, OR OVERNIGHT LODGING REQUIREMENTS IN REMOTE AREAS. NORMAL TRAVEL DISTANCE IS FIRST 50 MI. (80.5 KM) FROM OFFICE.
- SPECIAL CLASSES OR ADDITIONAL LABOR FOR ACCESS TO SECURITY SENSITIVE AREAS.
- INSTALLATION OF GAS SHUT-OFF VALVE.
- SPECIAL DRAWINGS REQUIRED TO SATISFY STATE OR LOCAL CODE. PLAN EXAMINATION FEES, PE OR FS APPROVAL STAMP.
- UNION LABOR, GOVERNMENT LABOR, OR PREVAILING WAGES REQUIRED FOR FINAL FIELD HOOK-UP.
- ANY AND ALL ELECTRICAL COMPONENTS/CONNECTIONS REQUIRED TO SHUT DOWN FANS, SHUT OFF DEVICE FOR ELECTRIC COOKING EQUIPMENT (SHUNT TRIP BREAKER), OR ACTIVATE AN ALARM SYSTEM, ETC.
- ANY DISMANTLING OR REASSEMBLY REQUIRED TO GAIN ACCESS TO THE FIRE SUPPRESSION PIPING LOCATED ON THE TOP OF THE HOOD.
- ROUGH-IN HIDDEN CONDUIT FOR REMOTE PULL STATION OR GAS VALVE (FLUSH MOUNTED PULL STATION).
- INSTALLATION OF MORE THAN (1) REMOTE PULL STATIONS OR DISTANCES GREATER THAN 20 FT (6.1M).
- PARTS OR LABOR REQUIRED TO CORRECT PIPING DUE TO COOKING EQUIPMENT CHANGES OR DEVIATION FROM PLANS, OR ANY CHARGES FOR MISSING OR ADDITIONAL PARTS OTHER THEN THOSE INDICATED ON THE FIRE SUPPRESSION DETAIL.

WIRING DIAGRAMS
WDPDT MICRO SWITCH

DPDT SWITCHES PROVIDED BY MANUFACTURER MAY BE WIRED PER TYPICAL EXAMPLES SHOWN. VERIFY WITH LOCAL CODES AND EQUIPMENT SUPPLIED AS THE CONNECTION NEEDED FOR YOUR INSTALLATION.

CONNECTION TO BUILDINGS ALARM

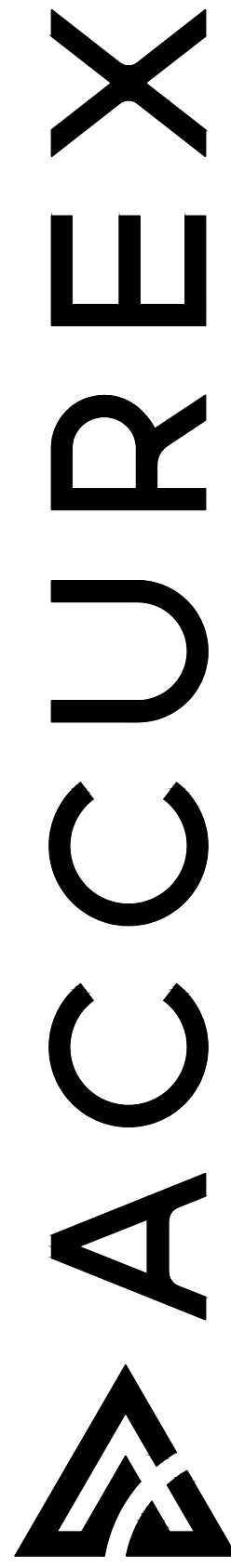
CONNECTION TO COOKING EQUIPMENT SHUT DOWN

CONNECTION TO FAN SHUT DOWN

DO NOT SHUT DOWN EXHAUST FANS WITH THIS METHOD OF WIRING. IF PROVIDED BY LOCAL CODES.

NOTES:

- 1. ——— DENOTES FIELD INSTALLATION.
- 2. ——— DENOTES FACTORY INSTALLATION.
- 3. DO NOT USE BLACK WIRE OR SNAP-ACTION SWITCH IN NORMAL INSTALLATION. BLACK WIRE TO BE USED ONLY FOR EXTRANEOUS ALARM, LIGHT CIRCUITS, ETC.



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PROJECT

2/25/2020

MARK

MEALPRO AUBURN BLVD -
SACRAMENTO



FSS-1

SARTORI KITCHEN
5710 AUBURN BLVD. UNIT 22
SACRAMENTO, CA 95841

MECHANICAL HOOD
DRAWINGS

SHEET NO.
M4



ISSUED FOR
PERMIT

DATE
06-03-2020



JOB NO.	20045	DRAWN	CHECKED	ORIGINAL DATE	03-13-2020
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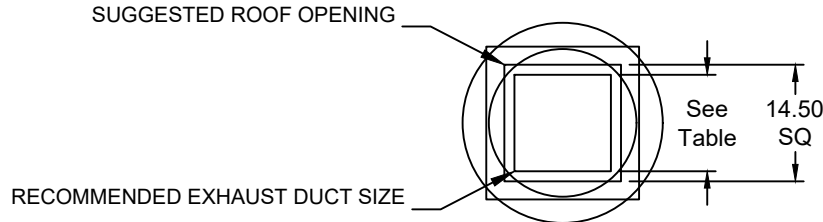
REVISION	DATE	DESCRIPTION
1	06-03-2020	PC #1

Direct Drive Upblast Centrifugal Roof Exhaust Fan

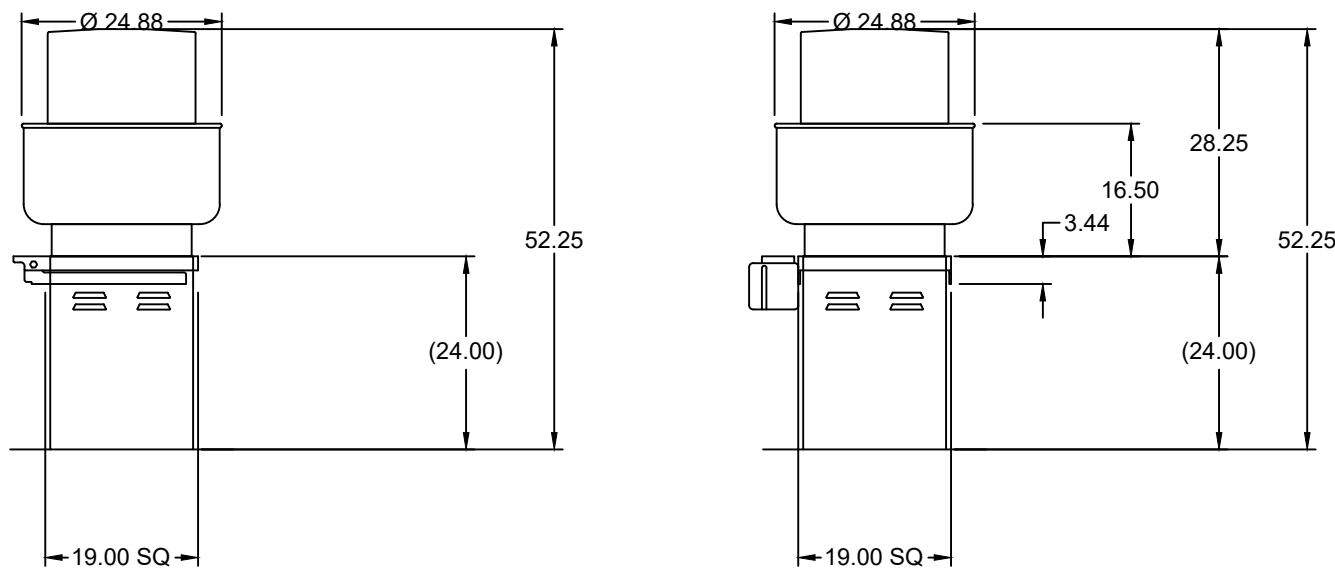
MARK INFORMATION		FAN INFORMATION						MOTOR INFORMATION					
QTY	MARK	MODEL	VOLUME (CFM)	TOTAL EXTERNAL SP (IN WG)	FAN RPM	OPERATING POWER (HP)	WEIGHT (LB.)	SIZE (HP)	V/C/P	ENCLOSURE	MOTOR RPM	WINDINGS	NEC FLA*
1	KEF-1	XRUD-099-VG	600	1.157	1,725	0.22	50	0.25	208/60/1	OP	1725	1	3.2

*NEC FLA - Based on tables 150 or 148 of National Electrical Code 2002. Actual motor FLA may vary, for sizing thermal overload, consult factory.

KEF-1 : SELECTED OPTIONS AND ACCESSORIES
UL/cUL 762 Listed - "Power Ventilators for Rest. Exh. Appliances"
Switch, NEMA-1, Toggle, Shipped with Unit
Hinged Base (Attached)
High Temp Curb Seal Rated for Continuous Duty at 2000 F (Attached)
Grease Trap (PN 475538)

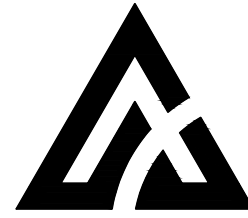
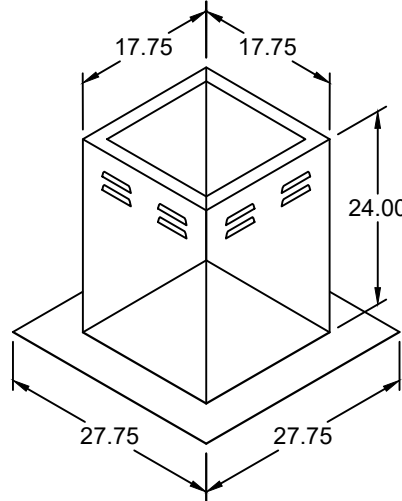


DUCT TYPE	SIZE
STANDARD	12 SQ
FIRE-WRAPPED	4 SQ



DUCT DIMENSIONS ARE LARGEST POSSIBLE DUCT TO FIT THROUGH CURB.
CONSULT SYSTEM DESIGN ENGINEER FOR RECOMMENDED DUCT SIZE.

OVERALL HEIGHT MAY BE GREATER DEPENDING ON MOTOR.



ACCUREX

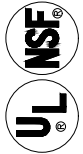
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PROJECT
2/25/2020

MARK

MEALPRO AUBURN BLVD -
SACRAMENTO

KEF-1



DATE	DESCRIPTION	REVISION	JOB NO.	ISSUED FOR	DATE
06-03-2020	PC #1	A	20045	PERMIT	06-03-2020
			DRAWN		
			CHECKED		
			ORIGINAL DATE		03-13-2020



SARTORI KITCHEN
5710 AUBURN BLVD. UNIT 22
SACRAMENTO, CA 95841

MECHANICAL HOOD
DRAWINGS

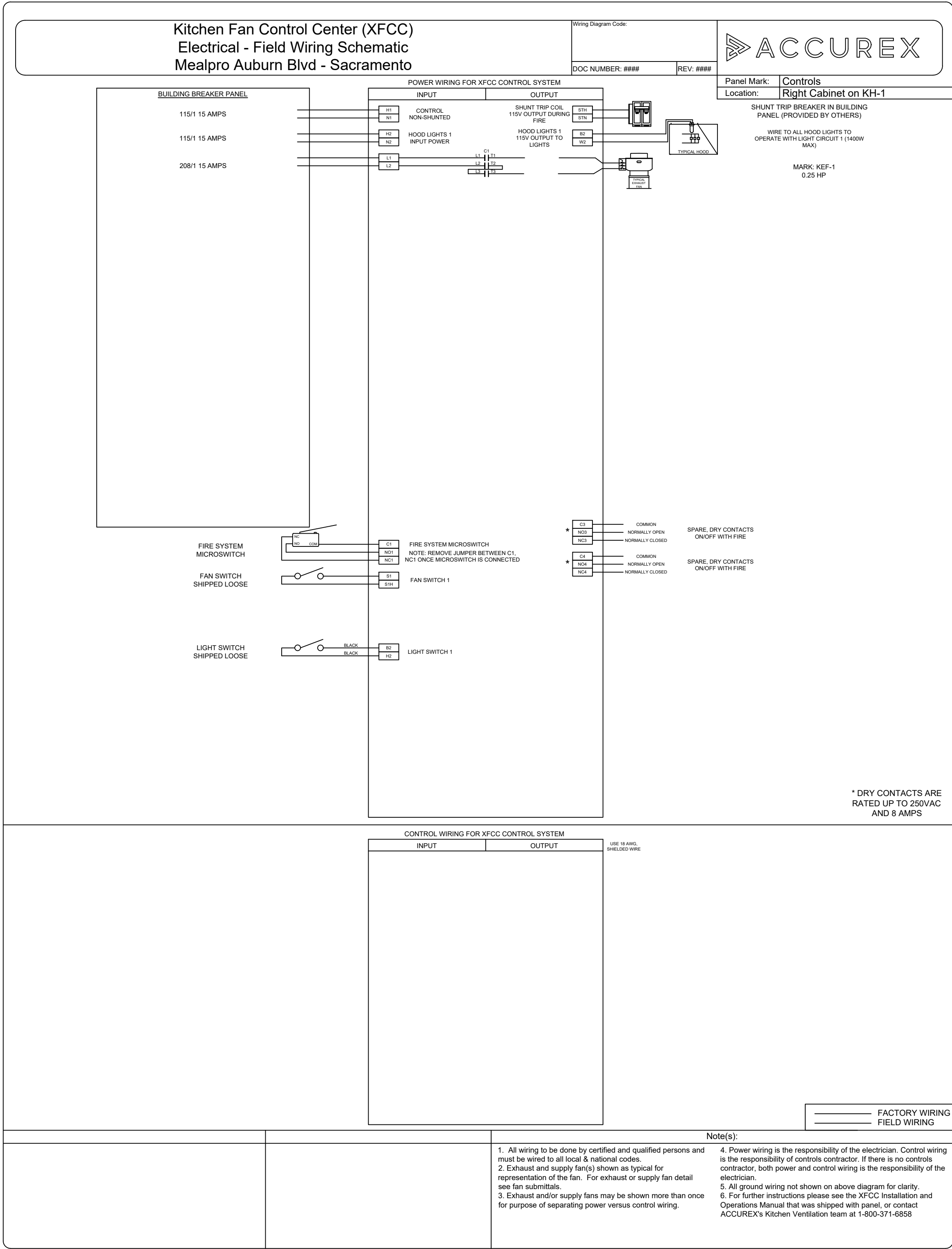
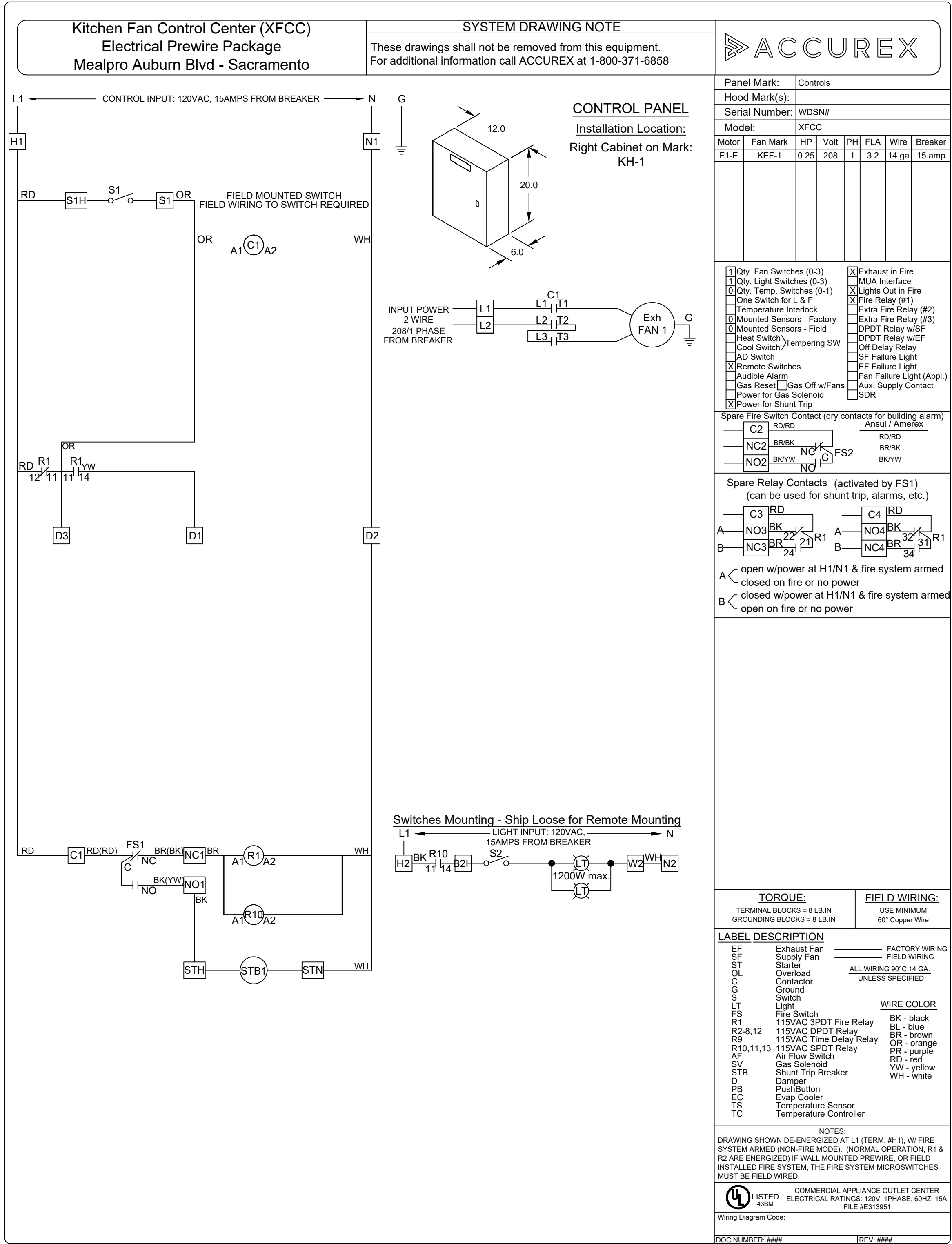
SHEET NO.
M5

CONTROL INFORMATION

MARK	ELECTRICAL CONTROL PACKAGE		USER INTERFACE		FANS CONTROLLED				
	MODEL	LOCATION	TYPE	LOCATION	MARK	TYPE	VOLT	PHASE	HP
CONTROLS	XFCC	CABINET – RIGHT END OF KH-1	SWITCHES	SHIP LOOSE	KEF-1	EXHAUST	208	1	1/4

CONTROL FEATURES

STARTERS PROVIDED IN CONTROL PANEL - QTY 1
2 POSITION LIGHT SWITCH - QTY 1
2 POSITION FAN SWITCH - QTY 1
TURN ON EXHAUST IN FIRE
LIGHTS OUT IN FIRE
POWER FOR SHUNT TRIP



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2/25/2020

MEALPRO AUBURN BLVD -
SACRAMENTO

CONTROLS



DATE	DESCRIPTION	PC #1	REVISION	JOB NO.	20045	DRAWN	CHECKED	ORIGINAL DATE	03-13-2020
06-03-2020									

OPTIMIZED ENERGY
& FACILITIES CONSULTING, INC.
5734 LoneTree Boulevard, Rocklin, CA 95765
Office: (916) 626-5518 / Fax: (916) 303-4311

SARTORI KITCHEN
5710 AUBURN BLVD. UNIT 22
SACRAMENTO, CA 95841

MECHANICAL HOOD
DRAWINGS

SHEET NO.

M6

Mechanical Systems		CALIFORNIA ENERGY COMMISSION	
NRC-MOLE		NRC-ACH-1	
CERTIFICATE OF COMPLIANCE	5720 Adams Blvd Unit 22	Report Page:	Page 2 of 8
Project Name:	5720 Adams Blvd	Date Prepared:	6/8/2020
Project Address:			

C. COMPLIANCE RESULTS																
Table C will indicate if the project data input into the compliance database is compliant with mechanical requirements. This table is not ratifiable by the user. (If table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D, or the table indicated as not compliant for compliance.)																
01	02	03	04	05	06	07	08	09	10	11	12					
System Summary \$110.1 \$110.2 \$110.3	AND	Pumps \$140.101	AND	Fans/ Exhausters \$140.101 \$140.104	AND	System Controls \$110.2 \$110.2.2 \$140.101	AND	Ventilation \$110.1	AND	Terminal Box Controls \$140.101	AND	Distribution \$110.2 \$140.101	AND	Cooling Towers \$110.201	AND	Compliance Results
(See Table F)	(See Table G)	(See Table H)	(See Table I)	(See Table J)	(See Table K)	(See Table L)	(See Table M)	(See Table N)	(See Table O)	(See Table P)	(See Table Q)	(See Table R)	(See Table S)	(See Table T)	(See Table U)	(See Table V)
Yes	AND	Yes	AND	Yes	AND	Yes	AND	Yes	AND	Yes	AND	Yes	AND	Yes	AND	COMPLIES
Mandatory Measures Compliance (See Table Q for Details)																

D. EXCEPTIONAL CONDITIONS	
This table is auto filled with underitalic comments because of selections made or data entered in tables throughout the form.	

E. ADDITIONAL REMARKS	
This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.	

Mechanical Systems		CALIFORNIA ENERGY COMMISSION	
MECH-004		NREC-004	
CERTIFICATE OF COMPLIANCE		NREC-004	
Project Name:	5750 Auburn Blvd Unit 22	Report Pages:	Page 1 of 8
Project Address:	5750 Auburn Blvd	Date Prepared:	6/17/2020

F. HVAC SYSTEMS SUMMARY (DRY & WET SYSTEMS)

This table is used to demonstrate compliance for mechanical equipment with mandatory requirements found in §110.2, and §110.2(b), and prescriptive requirements found in §140.4(b), §140.4(d), and §140.4(e), or §141.0(b)(2) for ventilation.

dry System Equipment Sizing includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters)

01	02	03	04	05	06	07	08	09	10	11
Name or Item Tag	Equipment Category per Tables 110.2	Equipment Type per Tables 110.2 & Table 20	Smallest Size Available ¹ (140.4(b))	Heating Output ²		Cooling Output ³		Load Calculations ⁴		
				Per Design (Btu/hr)	Rated (Btu/hr)	Sensible Per Design (Btu/hr)	Rated (Btu/hr)	Total Heating Load (Btu/hr)	Total Sensible Cooling Load (Btu/hr)	
HP-17C1	Unitary Heat Pumps	Air-cooled, split (3 phase)	N/A, Load Controls	36.85	59	0	49.83	44.4	49.92	51.36

¹IGNOTIONS: Equipment shall be the smallest size, within the available options of the designed equipment line, necessary to meet the design heating and cooling loads of the building per §140.4(b). Heat recovery facilities are excepted.

²It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet design.

Mechanical Systems		CALIFORNIA ENERGY COMMISSION	
NRCC-MCHLE			
CERTIFICATE OF COMPLIANCE		NRCC-6024-01	
Project Name:		5720 Auburn Blvd Unit 22 (Page 4 of 8)	
Project Address:		5720 Auburn Blvd Date Prepared: 6/27/2020	
G. PUMPS			
This section does not apply to this project.			
H. FAN SYSTEMS AND AIR ECONOMIZERS			
This table is used to demonstrate compliance with prescriptive requirements found in <u>§450.41(c)</u>, <u>§450.42(c)</u> and <u>§450.60(m)</u> for fan systems. Fan systems serving only process loads are exempt from these requirements and do not need to be included in Table H.			
System Name:	HP: L/FC-1	Economizer:	N/A, Special OA Filteration
01	02	03	04
05	06	07	08
Fan Name or Item Tag	Fan Function	Maximum Design Supply Airflow (CFM)	Fan Power Pressure Drop adjustment: <u>Table 140.4-B</u>
SF	Supply	2000	Device
EF	Exhaust	0	Design Airflow through Device (CFM)
BHP	BHP	0.7	Maximum System Fan Power (BHP):
Total System Design Supply Airflow (CFM):		2000	Total System Design (BHP):
		0.9	1.88

Mechanical Systems			CALIFORNIA ENERGY COMMISSION			
NRC-MOLE			NRC-MOLE-4			
CERTIFICATE OF COMPLIANCE			Page 14 of 18			
Project Name:			5720 Auburn Blvd Unit 222			
Project Address:			5720 Auburn Blvd Date Prepared: 6/7/2020			
II. SYSTEM CONTROLS *Notes: Control Unit with 2" air in the space below explaining how compliance is achieved. EX. system 1: SA Temp Reset. Exempt because zones compliant with §160.4(d); §160.4(e) and §160.4(f) require a note in the space below explaining how compliance is achieved. HP-1/FC-1 Init includes Kitchen						
III. VENTILATION AND INDOOR AIR QUALITY This table is used to demonstrate compliance with mandatory ventilation requirements in §120.1 and §120.7(c)(3) for all nonresidential, high-rise residential and hotel/motel occupancies. For alterations, only ventilation systems being altered within the scope of the permit application need to be documented in this table. In lieu of this table, the required outdoor air ventilation rates and airflow may be shown on the plans or the calculations or be presented in a spreadsheet. 01 ☐ Check the box if the project is showing ventilation calculations on the plans, or attaching the calculations instead of completing this table. 02 ☒ Check this box if the project included nonresidential or hotel/motel/medical spaces 03 ☐ Check this box if the project included new or altered high-rise residential dwelling units. 04 ☐ Check this box if the project is using natural ventilation in any nonresidential or hotel/motel spaces to meet required ventilation rates per §120.1(c)(4). Nonresidential and Hotel/ Motel Ventilation Systems 05 06 07						
System Name	HP-1/FC-1	System Design Air CFM Airflow "A"	121	System Transfer Air CFM	0	Air Filtration per §120.1(c) and §120.1(c)(2) ² Provided per §120.1(c) (NR and Hotel/Motel)

Registration Number:	Registration Date/Time:	Registration Provider: Energysmart
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance	Report Version: 2019.1.003 Schema Version: rev 20190402	Report Generated: 2025-05-08 08:13:00

If equipment is heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and load blank. *A utility heating jurisdiction may allow for load calculations based on compliance per 2.4.02.010									
Dry System Efficiency (Efficiency greater than Package Terminal for Conditions FPAC and Package Terminal Heat Pumps (PTHP))									
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
Size Category			Heating Mode			Cooling Mode			
Name or Item Tag	Size Category (Btu/h)	Rating Condition (°F)	Efficiency Unit	Minimum Efficiency Required per Tables 3.1.2.2.1 & 3.1.2.2.2	Design Efficiency	Efficiency Unit	Minimum Efficiency Required per Tables 3.1.2.2.1 & 3.1.2.2.2	Design Efficiency	
HR-1JC-1	<\$5,000		HSPF	8.2	8.5	SEER	13.0	14	

Registration Number:
Registration Date/Time:
Registration Provider: EnergoSoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Report Version: 2018.1.003
Scheme Version: rev 20190402
Report Generated: 2023-05-08 08:13:10

1. SYSTEM CONTROLS								
This table is used to demonstrate compliance with mandatory controls in §10.2, and prescriptive controls in §40.401 and (n) or requirements in §44.0102, for altered space conditioning systems.								
01	02	03	04	05	06	07	08	09
System Name	System Zoning	Conditioned Floor Area Being Served (ft ²)	Thermostats §10.2.330, 6 (c) §10.2.330.2(a)(1), §10.2.330.2(b)	Shut-Off Controls §10.2.330.2(b)	Isolation Controls §10.2.330.2(b)	Demand Response §10.2.330.2(b)	Supply Air Temp. Reset §10.2.330.2(b)	Window Interlocks per §10.2.330.2(b)
HF-1PC1	Single zone	< 25,000 ft ²	Setback	Other*	NA, Single Zone	NA, PTAC, FTHP, RC AC, HP	NA, Single Zone	NA, No operable windows
*NOTATIONS: 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 have electric interlocks.								
Registration Number:					Registration Doc#:		Registration Provider Name:	
CA Building Energy Efficiency Standards - 2019 Nonsidential Compliance			Report Version: 2019.1.003			Report Generated: 2020-06-03 08:13:00		
			Schema Version: 2019.03002					

08	09	10	11	12	13	14	15	16	
Source Name of Item (ing)	Mechanical Ventilation Required per §20.116.1 ¹						Exh. Vent per §20.116.1 ¹	DCV or Sensor Controls per §20.116.1 ¹ , §20.116.5 ¹ and §20.116.3 ¹	
	Occupancy Type ²	Conditioned Floor Area (ft ²)	# of Shower headlets	# of people ³	Required Min OA CFM	Required Min CFM	Provided per Design CFM	DCV or Sensor Controls	
Kitchen/Food Preparation Area	Kitchen (cooking)	807		121	564.9	600	DCV	NA: Not required per §20.116.3	
17	Total System Required Min OA CFM					121	18	Ventilation for this System Complies?	Yes

¹ FOOTNOTES: System CFM should include both mechanical and natural ventilation for the same spaces

Registration Number: _____ Registration Date/Time: _____ Registration Provider: Energysight

CA Building Energy Efficiency Standards - 2019 Nonsimultaneous Compliance
 Report Version: 2018.12.01
 Schema Version: rev. 20190402

Report Generated: 2020-06-09 08:13:10

STATE OF CALIFORNIA		CALIFORNIA ENERGY COMMISSION	
Mechanical Systems			
NRC-MCH-DS-E		NRC-MCH-F	
CERTIFICATE OF COMPLIANCE			
Project Name:	5732 Auburn Blvd Unit 102		Report Page: (Page 6 of 9)
Project Address:	5732 Auburn Blvd		4/3/2020
Prepared:			

J. VENTILATION AND INDOOR AIR QUALITY

"Air filtration requirements apply to the following three system types per §101.10(c)(3): space conditioning systems utilizing ducts to supply or 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 occupiable space."

- Uniform Mechanical Code may have more stringent ventilation requirements; the most stringent code requirement takes precedence.
- See Standards, Tables 101.1A and 120.1 B
- Two factors with fixed setting, the expected number of occupants, shall be shall be determined in accordance with the California Building Code
- §101.10(c)(3) requires systems serving rooms that are required by §101.10(c) to provide lighting occupancy sensing controls to also have occupancy sensing zone controls. Examples of spaces which require lighting occupancy sensors include offices 250sf or smaller, multipurpose rooms less than 1,000sf, classrooms, conference rooms, restrooms, suites and open areas in warehouses, library book stacks, corridors, stairwells, parking garages, and loading and unloading zones, unless excepted by §101.10(c)(4).

K. TERMINAL BOX CONTROLS

This section does not apply to this project.

L. DISTRIBUTION (DUCTWORK AND PIPING)

This section does not apply to this project.

M. COOLING TOWERS

This section does not apply to this project.

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections 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. These documents must be provided to the building inspector during construction and can be found online at www.energy.ca.gov/title24/2019standards/2019_compliance_documents/householddocuments/NRC/F/

Yes	No	Form/Title	Field Inspector Pass	Fail
☒	☐	NRC-MCH-DS-E - Must be submitted for all buildings	☐	☐

Mechanical Systems MECH-001 CALIFORNIA ENERGY COMMISSION NRCC-MCH-18.1			
CERTIFICATE OF COMPLIANCE Project Name: 5720 Auburn Drive Unit 202 Report Page: 18 Site Address: 5720 Auburn Drive Date Prepared: 6/15/2020			
Q. Declaration of Compliance with Certificate of Acceptance Selectors have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in <i>Table E Additional Remarks</i>. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/docs/2020-buildings/2020-compliance_documents/nonresidential_documents/NRCC/			
Yes	No	Formly Titled	Field Inspector
			Pass Fail
☒		NRCA-MCH-04-a Outdoor Air Must be submitted for all newly installed HVAC units. Note: MCH-04-a can be performed in conjunction with MCH-07 of Supply Volume VFD Acceptance (if applicable) since testing activities overlap.	☐ ☐
☒		NRCA-MCH-04-b Constant Volume Single Zone HVAC NOTE: This form does not automatically move to "Yes". If Constant Volume Single Zone HVAC Systems are included in the scope, permit applicant should move this form to "Yes"	☐ ☐
☒		NRCA-MCH-06-L Air Distribution Duct Leakage	☐ ☐
☒		NRCA-MCH-06-A Air Entrainment Controls	☐ ☐
☒		NRCA-MCH-06-B Demand Control Ventilation Systems must be submitted for all systems required to employ demand controlled ventilation (per §1201.100.3) (can vary outside ventilation flow rates based on maintaining indoor carbon dioxide (CO ₂) concentration) passes	☐ ☐
☒		NRCA-MCH-07-a Supply Fan Variable Flow Controls	☐ ☐
☒		NRCA-MCH-08-a Valve Leakage Test	☐ ☐
☒		NRCA-MCH-09-a Supply Fan Temperature Reset Controls	☐ ☐
☒		NRCA-MCH-10-D Hydronic System Variable Flow Controls	☐ ☐
☒		NRCA-MCH-11-a Automatic Demand Sized Flow Controls	☐ ☐
☒		NRCA-MCH-12-a FGD for Packaged Indoor Expansion Units	☐ ☐
☒		NRCA-MCH-13-a Automatic FGD for Air Handling Units and Zone Terminal Units Connections	☐ ☐
☒		NRCA-MCH-14-a Distributed Energy Storage DC AC Systems Acceptance NOTE: This form does not automatically move to "Yes." If distributed energy storage DC AC systems are included in the project, permit applicant should move this form to "Yes."	☐ ☐
☒		NRCA-MCH-15-a Thermal Energy Storage (TES) System Acceptance NOTE: This form does not automatically move to "Yes." If chilled water storage, ice-on-coil internal melt, ice-on-coil external melt, ice harvesters, brine, ice slurry, fused salt, chatehale hydrate slurry (CHS), cryogenic or encapsulated (ice ball) systems are included in the scope, permit applicant should move this form to "yes."	☐ ☐
☒		NRCA-MCH-16-a Supply Air Temperature Reset Controls	☐ ☐
☒		NRCA-MCH-17-a Chilled Water Temperature Reset Controls	☐ ☐
☒		NRCA-MCH-18-a Energy Management Control Systems	☐ ☐

Registration Number: _____
Registration Date/Time: _____
Registration Provider: EnergoSoft

CA Building Energy Efficiency standards - 2019 Nonresidential Compliance Report Version: 2020.1.001 Schema Version: v20190402 Report Generated: 2020-03-09 08:16:10

STATE OF CALIFORNIA Mechanical Systems NRC-100E		CALIFORNIA ENERGY COMMISSION NRC-MCH-CA	
CERTIFICATE OF COMPLIANCE			
Project Name:	5720 Auburn Blvd Unit 22	Report Page:	(Page 9 of 9)
Project Address:	5720 Auburn Blvd	Date Prepared:	6/11/2020

D. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE			
☐	☒	NIRCA-MCH-19-A Occupancy Sensor Controls	☐
☐	☒	NIRCA-MCH-20 Multi-Family Ventilation	☐
☐	☒	NIRCA-MCH-21 Multi-Family Envelope Leakage	☐

P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION			
<i>Selections 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.</i> <i>These documents must be completed by a HERS Rater and provided to the building inspection during construction. The first documents must be created by a HERS Provider's registry, but drafts can be found online at https://www.energy.ca.gov/Pdx/24/C2124standards/2019_compliance_documents/Documents/NRVC/</i>			
Yes	No	Form/Title	Field Inspector
☐	☒	NIRCV-MCH-06-H Duct Leakage Test NOTE: Must be completed by a HERS Rater	☐
☐	☒	NIRCV-MCH-26 Enclosure Air Leakage Worksheet NOTE: Must be completed by a HERS Rater	☐
☐	☒	NIRCV-MCH-22 High-Rise Residential NOTE: Must be completed by a HERS Rater	☐
☐	☒	NIRCV-MCH-23 Local Mechanical Exhaust NOTE: Must be completed by a HERS Rater	☐

Q. MANDATORY MEASURES DOCUMENTATION LOCATION		
This Table is used to evaluate where mandatory measures are documented in the plan set or construction documentation.		
	01	
Compliance with Mandatory Measures Documented through MCH Mandatory Measures Note Block	Yes	02
		Plan sheet or construction document location
		M-Sheets

Registration Number:	Registration City/Town:	Registration Provider: Evergoust
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance	Report Version: 2020.1.003 Item# added: #20190402	Report Generated: 2020-06-08 16:31

STATE OF CALIFORNIA Mechanical Systems		CALIFORNIA ENERGY COMMISSION	
CERTIFICATE OF COMPLIANCE		NRC-ARCH-1	
Project Name:	5720 Auburn Blvd Unit 22	Report Page:	(Page 1 of 9)
Project Address:	5720 Auburn Blvd	Date Prepared:	6/15/2020
DOCUMENTATION AUTHOR'S DECLARATION STATEMENT			
I certify that this Certificate of Compliance documentation is accurate and complete.			
Documentation Author Name: Alex Battista		Documentation Author Signature: 	
Company Optimum Energy & Facilities Consulting		Signature Date: 2020-06-03	
Address 5724 Lanette Blvd Rocklin CA 95765		C-4 or TRS Certification Identification (if applicable) Phone: (916) 626-5518	
RESPONSIBLE PERSON'S DECLARATION STATEMENT			
I hereby affirm following under penalty of perjury, under the laws of the State of California:			
- The information provided on this Certificate of Compliance is true and correct. - I am the owner, authorized agent, or the Engineer and Professional Code licensee responsible for the building design or system design identified on this Certificate of Compliance (responsible design). - The energy features and performance specifications, materials, components, and manufacturer's source for the building design or system design identified on this Certificate of Compliance conform to the requirements of the building code, rules, and standards adopted by the California Code of Regulations. - The energy feature features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, drawings, and reports submitted to the enforcement agency. No agreement with the building department exists. - We warrant that we completed signed copy of this Certificate of Compliance that is made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable jurisdictions. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the Documentation the building permit(s) is the building number at completion.			
Responsible Design Name: Steve Winkler		Responsible Design Signature: 	
Company Optimum Energy & Facilities Consulting, Inc		Date Signed: 2020-06-03	
Address 5724 Lanette Blvd Rocklin CA 95765		E-mail: MKT225@optimumenergy.com Phone: (916) 626-5518	

Registration Number: _____ Registration City/Town: _____ Registration Provider: EnergoSoft

CA Building Energy Efficiency Standards - 2019 Nonsidential Commercial Report Version: 2020.1.003
Schema Version: ver 20200402 Report Generated: 2020-06-08 09:38:15

TITLE OF PROJECT DOMESTIC WATER HEATING SYSTEM		CALIFORNIA ENERGY COMMISSION NRC-118.1	
CERTIFICATE OF COMPLIANCE			
<i>This document is used to demonstrate compliance for nonresidential occupancies with requirements in §160.1.1, §160.5, §160.8, and §160.9, and with requirements in §160.9 for additions and alterations, for domestic water heating systems using the prescriptive path. For high-rise residential and hotel/motel occupancies compliance is demonstrated with requirements in §160.1.1, §160.4, §160.5, §160.8, §160.9, and §160.10.8, and with requirements §160.2 for elevators.</i>			
Project Name: 5710 Auburn Blvd Unit 22		Report Page: Page 1 of 7	
Project Address: 5710 Auburn Blvd		Date Prepared: 6/17/2020	
A. GENERAL INFORMATION			
01 Project location city: Sacramento		02 Climate Zone 12	
03 Occupancy Types Within Project (select all that apply):			
☐ Nonresidential		☐ High-Rise Residential	
☐ State Building		☐ Hotel/Motel	
☐ Healthcare Facility		☐ Other (Write in)	
B. PROJECT SCOPE			
<i>This table includes domestic water heating systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive paths outlined in §160.5, §160.10.8, and §160.10.9 or §160.9(a)(ii) for additions or alterations. Solar water heating systems are documented on the NRC-538 compliance document. Combined hydronic water heating systems are documented on the NRC-440 compliance document.</i>			
01 My project consists of (check all that apply):		02 System Type: ²	
☒ New system (DHW system being installed for the first time in newly constructed building)		☐ Individual System (serving nonresidential spaces)	
☐ System Alteration (equipment, distribution or controls)		☒ Equipment ☐ Distribution ☐ Controls	
FOOTNOTES: Point of use water heaters, or other non-central systems used to serve nonresidential spaces, are considered individual systems. Dwelling units refers to hotel/motel guest rooms and units in a high-rise residential occupancy			

OFFICE OF CALIFORNIA Domestic Water Heating System		CALIFORNIA ENERGY COMMISSION	
WEC-108-E		NBCC PLB-F	
CERTIFICATE OF COMPLIANCE			
Project Name:	572D Auburn Blvd Unit 22	Report Page:	(Page 2 of 7)
Project Address:	572D Auburn Blvd	Date Prepared:	6/17/2020
C. COMPLIANCE RESULTS			
Table C will indicate if the project data input into the compliance document is compliant with water heating requirements. 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.			
01	02	03	04
Domestic Hot Water Equipment	Distribution Systems	Controls	Compliance Results
Table F	Table G	Table H	
Yes	Yes	Yes	COMPLIES
D. EXCEPTIONAL CONDITIONS			
This table is auto-filled with unreadable comments because of selections made or data entered in tables throughout the form.			
E. ADDITIONAL REMARKS			
This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.			

Registration Number:
Registration Date/Time:
Registration Provider: Energissoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Report Version: 2023.1.003
Schema Version: wc-2019-04-01
Report Generated: 2023-06-03 08:16:01

STATE OF CALIFORNIA
DOMESTIC WATER HEATING SYSTEM
CALIFORNIA ENERGY COMMISSION
NCEI PLS-1

CERTIFICATE OF COMPLIANCE		Report Page:		NCEC PLS-1 (Page 3 of 7)	
Project Name:		5710 Auburn Blvd Unit Z2			
Project Address:		5710 Auburn Blvd		Date Prepared: 6/17/2020	

E-DOMESTIC HOT WATER EQUIPMENT

This table is used to demonstrate compliance with mandatory equipment requirements in §110.1.2 and §110.1.3. For high-rise residential and hotel/motel occupancies, compliance with prescriptive requirements in §110.1.2(c) must also be demonstrated and with §110.1.2 for additional and alteration scenarios.

Equipment Schedule Individual Systems					
O1	O2	O3	O4	O5	O6
Name or Item Tag	Equipment Type	Volume (gal)	Max GPM / First Hour Rating (FHR)	Rated Unit Energy Factor (UEF) (2015)	Minimum Required Unit Energy Factor (UEF) ¹
RHEIM KETAGDS T5001	Electric Storage	41-50	FHR = 775	0.93	0.93

¹NOTE: Compliant equipment may be found in the Modernized Appliance Efficiency Database System (MAEDBS) on the Energy Commission website: <https://aces.enr.energy.ca.gov/Pages/SearchAdvancesSearch.aspx>

Water Heating Equipment All Occupancies		Requirement	
Yes	No	No	Not Applicable
18	☐	☒	☒
		Unified storage tank insulation shall have Internal + External >=R-16 OR External >=R-12 Label required per §110.1(c)(6)	
19	☐	☐	☒
		New state buildings 60% of energy for service water heating from site solar energy or recovered energy per §110.1(c)(5)	
20	☐	☐	☒
		Insulation values for instantaneous water heater with input rating <=8 MBTUH or 2 kW has been specified per §110.1(c)(6).	

Registration Number:
Registration Code/Time:
Registration Operator: Energisoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Report Version: 2020.1.000
Schema Version: W20190402
Report Generated: 2020-06-08 10:25:00

CITY OF CALIFORNIA Domestic Water Heating System NECT 119.4 CERTIFICATE OF COMPLIANCE Project Name: 5710 Auburn Blvd Unit L2K Report Page: _____ Project Address: 5710 Auburn Blvd Date Prepared: 6/8/2020 NICC P.L.B.		CALIFORNIA ENERGY COMMISSION (Page 4 of 7)		
G. DOMESTIC HOT WATER DISTRIBUTION SYSTEM				
This table is used to demonstrate compliance for nonresidential occupancies with distribution requirements in §120.3 and §100.5. For high-rise residential and hotel/motel occupancies, compliance is demonstrated with requirements §110.3(e), §120.3, §150.9, §150.1.				
Mandatory Pipe Installation All Occupancies:				
12	☒	For systems serving nonresidential spaces, pipe insulation for the following applications is specified to comply with Table 120.3.A (see below) per §120.3: - Recirculating system piping, including supply and return piping of the water heater - The first R or hot and cold outlet piping, including between storage tank and heat trap, for a nonrecirculating water system - Pipes that are externally heated		
13	☒	Insulation shall be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind. Insulation exposed to weather shall be installed with a cover suitable for outdoor service per §120.3(h) and §150.9(i).		
TABLE 120.3-A PIPE INSULATION THICKNESS				
Fluid Temperature Range (°F)	Conductivity Range (Btu-in per hour per ft² per °F)	Nominal Pipe Diameter (in)		
		< 1	1 to < 1.5	1.5 to < 4
105-140	0.22 - 0.28	100	Minimum Insulation Required	
		1.0 in or R-7.7	1.5 in or R-12.5	1.5 in or R-11

Registration Number: _____
Registration Date/Time: _____
Registration Provider: Energusoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Report Version: 2020.3.1.005
Schema Version: rev 2020.04.02
Report Generated: 2020-06-08 10:38:16

OF CALIFORNIA Domestic Water Heating System NRC #1-E CERTIFICATE OF COMPLIANCE		CALIFORNIA ENERGY EFFICIENCY COMMISSION NREC P1-B-1	
Project Name: Project Address:		S120 Auburn Blvd unit 202 S120 Auburn Blvd	
		Report Page: Date Prepared:	(Page 5 of 7) 6/6/2020

II. DOMESTIC HOT WATER CONTROLS

This table is used to demonstrate compliance with control requirements in §110.1.1 for all occupancies. For high-rise residential and hotel/motel occupancies, compliance is also demonstrated with requirements in §150.1.1(c).

	Yes	No	Not Applicable	Requirement
01	☒	☐	☐	Construction documents require manufacturer certification that service water-heating systems are equipped with automatic temperature controls capable of adjusting temperature settings per §150.1.1(b). Systems with capacity ≤ 167,000 BTU/h equipped with outlet temperature controls per §150.1.1(c)(1) unless covered by California Plumbing Code 613.0.
02	☐	☐	☐	Control for circulating pumps or electrical heat train systems are capable of automatically turning off the system per §150.1.1(c)(2), unless system serves healthcare facility.
04	☐	☐	☒	For recirculation systems serving multiple dwelling units, design includes automatic pump control per §150.1.1(c)(8), or §150.2 for additions or alterations.
05	☐	☐	☐	For recirculation systems serving individual dwelling units, design includes manual on/off controls as specified in Reference Appendix RAA.4.9 per §150.1.1(c). For replacement single heat pump water heaters serving individual dwelling units in climate zone 1-5, design includes communication interface that meets demand responsive control requirements in §130.2.1(a), per §150.2.1(b)(14).
06	☐	☐	☒	

III. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

I, the undersigned, have been made aware of information provided in this document. If any selection has been changed by permit applicant, an explanation should be included in Table E. Additional Remarks:

(https://www.cedps.ca.gov/files/2020/02/standards/2019_compliance_documents/Nonresidential_Documents/NRCV)

Yes	No	Form/Title	Field Inspector Pass	Fail
☒	☐	NRC-P1-B.01-E - Must be submitted for all buildings	☐	☐
☐	☐	NRC-P1-B.02-E - Must be submitted for high-rise residential and hotel/motel central hot water distribution systems to be recognized for compliance.	☐	☐
☐	☐	NRC-P1-B.03-E - Must be submitted for high-rise residential and hotel/motel single dwelling unit hot water distribution systems to be recognized for compliance.	☐	☐

Registration Number:	Report Generation Date/Time:	Registration Provider: EnergoSoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance	Report Version: 2019.1.003	Report Generated: 2020-06-03 08:18:31

STATE OF CALIFORNIA		DOMESTIC WATER HEATING SYSTEM		ENERGY EFFICIENCY COMMISSION	
NRC PLB 1		NRC PLB 2		NRC PLB 3	
CERTIFICATE OF COMPLIANCE					
Project Name:		5120 Auburn Blvd unit 22		Report Page: (Page 6 of 7)	
Project Address:		5120 Auburn Blvd		Date Prepared: 6/1/2020	
I. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE					
There are no Certificates of Acceptance applicable to service water heating requirements.					
II. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION					
Sections have been made based on information provided in this document. If any section have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks: These documents must be completed by a HERS Rater and provided to the building inspector during construction. The final documents must be created by a HERS Registered provider, but drafts can be found online at https://www.energy.ca.gov/files/2019/2019standards/2019_compliance_documents/Nonresidential_Documents/NRW_V					
Yes	No	Form/Title		Field Inspector	
☐	☒	NRCV-PLB-21-H High-rise Residential Central Hot Water Distribution HERS Verification		☐	☐
☐	☒	NRCV-PLB-22-H High-rise Residential Individual Dwelling Unit Hot Water Distribution HERS Verification		☐	☐

STATE OF CALIFORNIA Domestic Water Heating System MEC-FHS-1		CALIFORNIA ENERGY COMMISSION MEC-FHS-1-B	
CERTIFICATE OF COMPLIANCE			
Project Name:	5720 Auburn Blvd Unit 22	Report Page:	(Page 7 of 8)
Project Address:	5720 Auburn Blvd	Date Prepared:	6/12/2020

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name Alex Betts Company Optimized Energy & Facilities Consulting 5724 Loraine Blvd (City/State) Redlands CA 92375	Documentation Author Signature  Signature Date 2020-06-03 N/A (City/State Identification [if applicable]) (Phone) (626) 626-5518
--	---

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

- The information provided on this Certificate of Compliance is true and complete.
- I am eligible under Division 2 of the Building and Fire Protection Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible design).
- The energy features and performance specifications, materials, components, and manufacturers/drawers for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
- 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, calculations, plans and specifications submitted to the enforcement agency for approval with the building permit application.

I will ensure that a completed signed copy of this Certificate of Compliance will be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections and audits that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the building owner at occupancy.

Responsible Person Name Steve Winicki Company Optimized Energy & Facilities Consulting, Inc 5724 Loraine Blvd Redlands CA 92375	Responsible Person Signature  Date Signed 2020-06-03 (City/State) (Phone) (626) 626-5518
--	---

JOB NO.	20045	REVISION	A	DESCRIPTION	PC #1	DATE	06-03-2020
DRAWN		CHECKED					
							ORIGINAL DATE 03-13-2020
							
ISSUED FOR PERMIT				DATE 06-03-2020			
 OPTIMIZED ENERGY™ & FACILITIES CONSULTING, INC. 5734 Lonetree Boulevard, Rocklin, CA 95765 Office: (916) 626 5518 / Fax: (916) 303 4311							
SARTORI KITCHEN 5710 AUBURN BLVD. UNIT 22 SACRAMENTO, CA 95841							
SHEET TITLE							
TITLE 24 ENERGY							
SHEET NO.							
EN1							

ELECTRICAL GENERAL NOTES

- 1) ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN COMPLIANCE WITH THE FOLLOWING CODES AS AMENDED AND ADOPTED BY THE AUTHORITY(IES) HAVING JURISDICTION: 2019 CALIFORNIA ADMINISTRATIVE CODE (CAC), 2019 CALIFORNIA BUILDING CODE (CBC), 2019 CALIFORNIA FIRE CODE (CFC), 2019 CALIFORNIA MECHANICAL CODE (CMC), 2019 CALIFORNIA PLUMBING CODE (CPC), 2019 CALIFORNIA ELECTRICAL CODE (CEC), 2019 CALIFORNIA ENERGY CODE (CENC), 2019 CALIFORNIA GREEN BUILDING CODE (CGC), NATIONAL FIRE PROTECTION ASSOCIATION (NFPA), OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA), AND ANY OTHER LOCAL CODES, ORDINANCES, REGULATIONS, OR AUTHORITIES HAVING JURISDICTION. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES OR OTHER CODES AND REGULATIONS APPLICABLE TO THIS PROJECT. THESE CODES SHALL DETERMINE MINIMUM REQUIREMENTS FOR MATERIALS, METHODS, AND LABOR PRACTICES NOT OTHERWISE DEFINED IN THESE SPECIFICATIONS.
- 2) ALL CONDUCTORS SHALL BE PER DESIGN SHEETS. CEC AND MAXIMUM VOLTAGE DROP OF 5% WILL DEFINE CONDUIT SIZING.
- 3) ALL CONDUCTORS SHALL BE IN CONDUITS, U.O.N. CONDUITS SHALL BE USED IN THE FOLLOWING METHODS:
 - POLYVINYL CHLORIDE (PVC) CONDUITS ALLOWED FOR UNDERGROUND USE PER CEC 511.8, OTHERWISE PROVIDE RMC OR IMC
 - ELECTRICAL METALLIC TUBING (EMT) WITH COMPRESSION FITTINGS MAY BE USED IN OR ON WALLS OR CEILINGS WHERE NOT SUBJECT TO MECHANICAL DAMAGE, DAMP CONDITIONS OR CORROSIVE CONDITIONS;
 - LIQUID TIGHT FLEXIBLE METAL CONDUIT WHERE REQUIRED;
 - FLEXIBLE METALLIC CONDUIT, WHERE REQUIRED BY CEC, IN DRY LOCATIONS. NOTE: ALL CONDUITS IN HAZARDOUS LOCATIONS (PER CEC) SHALL MEET THE REQUIREMENTS OF CEC CHAPTER 5.
 - CONNECTION TO LIGHT FIXTURES ABOVE LAY-IN CEILING MAY USE 3/8" FLEXIBLE METAL CONDUIT PER CEC 348.20(A)(2)
 - ALL EXPOSED CONDUIT SUBJECT TO WEAR OR COLLISION SHALL BE RIGID GALVANIZED STEEL (RGS) OR INTERMEDIATE METALLIC TUBING (MT). APPLY BITUMASTIC COATING TO ALL METALLIC CONDUITS IN SLABS OR UNDERGROUND.
 - PROVIDE FIRE RETARDANT U.L. APPROVED SEALANT ON ALL RACEWAY PENETRATIONS OF FIRE RATED CEILINGS, PARTITIONS, WALLS AND STRUCTURAL SLABS.
- 4) FOR TELEPHONE SYSTEM: PROVIDE GROUNDING FOR ALL TELEPHONE BACKBOARDS, TERMINAL CABINETS AND EQUIPMENT PER REQUIREMENTS OF CEC 800 AND TELEPHONE COMPANY.
- 5) ALL DISCONNECT SWITCHES SHALL BE SIZED PER CEC TO ACCOMMODATE EQUIPMENT SERVED, INCLUDING REQUIRED FUSES, U.O.N. SWITCHES SHALL BE HORSE POWER RATED, OF HEAVY DUTY TYPE. PROVIDE MEANS FOR PAD LOCKING IN THE OPEN POSITION.
- 6) ALL CIRCUIT BREAKERS SHALL BE INVERSE TIME (THERMAL MAGNETIC) "PERMANENT TRIP" TYPE. TWO AND THREE POLE CIRCUIT BREAKERS SHALL BE COMMON TRIP. AMPACITY IS EQUAL TO OR GREATER THAN CIRCUIT BREAKER FRAME AMPERE RATING.
- 7) ALL CONNECTIONS TO GROUND RODS AND GRID, ETC., SHALL BE MADE WITH U.L. APPROVED WELDED CONNECTIONS, UNLESS NOTED OTHERWISE.
- 8) LIGHTING SYSTEMS SHALL COMPLY WITH CEC. ALL LIGHTING FIXTURES, LAMPS, BALLASTS, DIMMER SWITCHES, AND CONTROLS SHALL BE CERTIFIED WITH THE CALIFORNIA ENERGY COMMISSION AS MEETING ALL CEC REQUIREMENTS AND BE LISTED IN THE APPLICABLE ENERGY COMMISSION DIRECTORY. ALL SUCH DEVICES AND EQUIPMENT SHALL BE INSTALLED PER THE MANUFACTURER'S INSTRUCTIONS. LIGHT FIXTURES IN SUSPENDED CEILINGS SHALL BE SUPPORTED IN STRICT ACCORDANCE WITH CBC SEISMIC REQUIREMENTS.
- 9) LIGHT POLLUTION REDUCTION: OUTDOOR LIGHTING SYSTEMS SHALL BE INSTALLED TO COMPLY WITH THE FOLLOWING:
 - 1) 1% MINIMUM REQUIREMENTS IN CEC FOR LIGHTING ZONES 0-4 AS DEFINED IN CH. 10 OF CAC
 - 2) BACKLIGHT RATINGS AS DEFINED IN IES TM-15-11
 - 3) UPLIGHT AND GLARE RATINGS AS DEFINED IN CEC TABLES 130.2-4 AND 130.2B
 - 4) ALLOWABLE BUG RATINGS NOT EXCEEDING THOSE SHOWN IN TABLE 5.106.8, OR

COMPLY WITH A LOCAL ORDINANCE LAWFULLY ENACTED PURSUANT TO SECTION 101.7, WHICHEVER IS MORE STRINGENT.

- 10) ALL ELECTRICAL EQUIPMENT, DEVICES, WIRE, ETC., SHALL BE LISTED, FOR THE INTENDED USE, WITH UNDERWRITER'S LABORATORIES, INC. (UL), WHERE STANDARDS HAVE BEEN ESTABLISHED BY UL. ALL EQUIPMENT SHALL BE RAIN TIGHT WHERE EXPOSED TO THE WEATHER. ALL FLEX CONDUITS CONNECTED TO SUCH EQUIPMENT SHALL BE METALLIC LIQUID TIGHT. ALL EQUIPMENT IN HAZARDOUS LOCATIONS, PER CEC, CHAPTER 5, SHALL BE IN ACCORDANCE WITH THE CEC. ALL EQUIPMENT IN CORROSIVE ENVIRONMENTS SHALL BE IN ENCLOSURES (SUCH AS NEMA 4X) RATED FOR THE ENVIRONMENT.
- 11) UTILITY SERVICE AND REQUIREMENTS SHALL BE COORDINATED WITH POWER SERVICE WITH POWER COMPANY. PROVIDE FOR ALL STANDARD POWER COMPANY REQUIREMENTS. FAULT CURRENT RATINGS SHALL BE PROVIDED BY UTILITY.
- 12) THE LAYOUTS OF THE CONTRACT DRAWINGS ARE DIAGRAMMATIC. IT IS NOT INTENDED TO SHOW EVERY OFFSET AND FITTING, NOR EVERY STRUCTURAL DIFFICULTY THAT WILL BE ENCOUNTERED DURING THE INSTALLATION OF THE WORK. ALIGNMENT OF EQUIPMENT AND ROUTING OF RACEWAYS MAY BE VARIED SLIGHTLY TO ACCOMMODATE ARCHITECTURAL CONDITIONS OR TO AVOID THE WORK OF OTHER TRADES. IF ANY CONFLICTS OCCUR NECESSITATING DEPARTURES FROM CONTRACT DRAWINGS, DETAILS OF DEPARTURES AND REASONS THEREFORE SHALL BE SUBMITTED AS SOON AS PRACTICABLE FOR WRITTEN APPROVAL OF THE ENGINEER.
- 13) THE WORD "CONTRACTOR", AS USED IN THE ELECTRICAL CONTRACT DOCUMENTS, SHALL MEAN THE PRIME (I.E. GENERAL) CONTRACTOR AND HIS/HER SUBCONTRACTORS FOR THE APPROPRIATE TRADE, WHERE THE OWNER ACTS AS HIS OWN CONTRACTOR, THE WORD CONTRACTOR APPLIES TO THE OWNER.
- 14) CONTRACTOR SHALL PROVIDE EVIDENCE OF LICENSING, BONDING, AND INSURANCE, AND PROVIDE OTHER NECESSARY ADMINISTRATIVE FUNCTIONS FOR CONTRACTOR'S WORK.
- 15) CONTRACTOR SHALL PROCURE AND PAY FOR ALL REQUIRED PERMITS AND SERVICE CHARGES.
- 16) COORDINATION: CONFORM TO GENERAL CONSTRUCTION CONTRACT DOCUMENTS EXCEPT AS MODIFIED HEREIN. REFER ALSO TO STRUCTURAL AND MECHANICAL CONTRACT DOCUMENTS. COORDINATE ALL WORK WITH OTHER TRADES.
- 17) CUTTING AND PATCHING: ANY CUTTING, ATTACHING, OR WELDING TO BUILDING STRUCTURE SHOULD BE COORDINATED AND APPROVED BY A CALIFORNIA LICENSED STRUCTURAL ENGINEER. PATCHING SUBJECT TO ACCEPTANCE BY OWNER.
- 18) SAW CUT TRENCHES IN SLAB SHALL BE FULLY RESTORED AND REINFORCED TO PREVENT SAGGING. ROUGHEN SAW CUT EDGES PRIOR TO RE-POURING CONCRETE.
- 19) COORDINATE ALL WORK WITH OTHER TRADES TO PROVIDE A COMPLETE INSTALLATION. CONNECT ALL EQUIPMENT FURNISHED BY OTHERS AS REQUIRED. INSTALL ALL WORK TO CLEAR ARCHITECTURAL AND STRUCTURAL MEMBERS. INSTALL ALL ABOVE GRADE (OVERHEAD) PIPING AS HIGH AS PRACTICAL.
- 20) RESTORE ALL DAMAGE RESULTING FROM THE WORK AND LEAVE PREMISES IN CLEAN CONDITION WHEN FINISHED WITH WORK. ADJUST, CLEAN, REPAIR, OR REPLACE PRODUCTS, WHICH HAVE BEEN DAMAGED.
- 21) PROVIDE FLASHING AND COUNTER FLASHING FOR ALL WALL AND ROOF PENETRATIONS.
- 22) WARRANTY: ALL MATERIALS AND EQUIPMENT INSTALLED UNDER THIS CONTRACT SHALL BE GUARANTEED FREE FROM ALL MECHANICAL, ELECTRICAL, AND WORKMANSHIP DEFECTS FOR A MINIMUM OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES TO THE PREMISES CAUSED BY WORK UNDER THIS CONTRACT, AS WELL AS ANY DAMAGE FROM LEAKS WA ROOF PENETRATIONS MADE AND SEALED UNDER CONTRACTOR'S SCOPE.

ELECTRICAL CALGREEN NOTES

5.106.5.3 ELECTRIC VEHICLE (EV) CHARGING. CONSTRUCTION SHALL COMPLY WITH CGC SECTION 5.106.5.3.1 OR SECTION 5.106.5.3.2 TO FACILITATE FUTURE INSTALLATION OF ELECTRIC VEHICLE SUPPLY EQUIPMENT (EVSE).

5.106.5.3.1 SINGLE CHARGING SPACE REQUIREMENTS. WHEN ONLY A SINGLE CHARGING SPACE IS REQUIRED PER CGC TABLE 5.106.5.3.3, A RACEWAY IS REQUIRED TO BE INSTALLED AT THE TIME OF CONSTRUCTION AND SHALL BE INSTALLED IN ACCORDANCE WITH CGC.

5.106.5.3.2 MULTIPLE CHARGING SPACES REQUIREMENTS. WHEN MULTIPLE CHARGING SPACES ARE REQUIRED PER CGC TABLE 5.106.5.3.3, RACEWAY(S) IS/ARE REQUIRED TO BE INSTALLED AT THE TIME OF CONSTRUCTION AND SHALL BE INSTALLED IN ACCORDANCE WITH CGC.

5.106.5.3.3 EV CHARGING SPACE CALCULATION. CGC TABLE 5.106.5.3.3 SHALL BE USED TO DETERMINE IF SINGLE OR MULTIPLE CHARGING SPACE REQUIREMENTS APPLY FOR THE FUTURE INSTALLATION OF EVSE.

5.106.5.3.4 IDENTIFICATION. THE SERVICE PANEL OR SUBPANEL(S) CIRCUIT DIRECTORY SHALL IDENTIFY THE RESERVED OVERCURRENT PROTECTIVE DEVICE SPACE(S) FOR FUTURE EV CHARGING AS "EV CAPABLE". THE RACEWAY TERMINATION SHALL BE PERMANENTLY AND VISIBLY MARKED AS "EV CAPABLE".

5.106.5.3.5 FUTURE CHARGING SPACES. FUTURE CHARGING SPACES QUALIFY AS DESIGNATED PARKING AS DESCRIBED IN CGC SECTION 5.106.5.2 DESIGNATED PARKING FOR CLEAN AIR VEHICLES.

TAG	TYPE	MANU.	MODEL	QTY.	MOUNTING	VOLT.	LAMPS	LUMENS	CCT	NOTES
A	2'X4' FIXTURE	METALUX	24GR-FA-LD5-56-F1-UNV-L840-HCD-1	7	T-BAR	120	45.2W LED	5711	4000K	
A1	2'X4' FIXTURE	METALUX	24GR-FA-LD5-56-F1-UNV-EL7W-L840-HCD-1	2	T-BAR	120	45.2W LED	5711	4000K	90 MIN BATTERY BACKUP
B	ATTIC LIGHT	GE	18303	1	SURFACE	120	7W LED	--	--	
C	DOWNLIGHT	HALO	HC615D010-HM612840-61MDH	2	RECESSED	120	14W LED	1500	4000K	
C1	DOWNLIGHT	HALO	HC615D010IEM7-HM612840-61MDH	2	RECESSED	120	14W LED	1500	4000K	90 MIN BATTERY BACKUP
EMX	EMER/EXIT COMBO	ISOLITE	CMB-EM-X-U-WH-MTEB-L1	1	CEILING SURFACE	120	1W LED	--	--	90 MIN BATTERY BACKUP

NOTE: EQUIVALENT FIXTURES ACCEPTABLE CONTINGENT ON OWNER APPROVAL

Panel Name:		E				Bus Rating:		150A			
Voltage & Phase:		120/208V - 1Ø - 3W				AIC Rating:		(E)			
Mounting:		Surface				Main Type:		Lugs Only			
Enclosure Rating:		NEMA 1									
Code	VA	Description	BRK	Ckt	PHASE	Ckt	BRK	Description	VA	Code	
R	1800	(E) Plugs	20/1	1A	A	2	20/1	(E) Roll Up Motor	667	M	
R	720	(N) Recept - Kitchen	20/1	1B							
K	1173	(N) GI-1	20/1	3A	B	4	20/1	(E) Warehouse Lighting	992	L	
K	667	(N) Pizza Table	20/1	3B							
O	50	(N) Hood Shunt Trip	20/1	5A	C	6A	20/1	(N) Recept - Convenience Outlets	360	R	
L	470	(N) Kitchen Lighting	20/1	5B		6B	15/1	(N) Hood Lights	100	L	
K	667	(N) Refrigerator	20/1	7	A	8	20/1	(E) Roll Up Motor	667	M	
K	1840	(N) Freezer	20/1	9A	B	10A	20/1	(N) Recept - Kitchen	720	R	
M	333	(N) KEF-1	15/2	9B		10B	20/1	(N) Vacuum Sealer	2300	K	
M	333	-	-	11A	C	12	60/2	(N) HP-1	2902	M	
K	2900	(N) Oven	30/2	11B							
K	2900	-	-	13A	A	14	-		2902	M	
R	720	(N) Recept - Kitchen	15/1	13B							
H	2250	(N) WH-1	30/2	15	B	16	15/2	(N) FC-1	915	M	
H	2250		-	17	C	18	-		915	M	
Largest Motor VA		5491									
Largest Motor Phases:		C,A									
Subfeed Breaker to Panel:											

Load Code	VA Load per Phase			Calculation		
	A	B	C	Total VA	Mult.	VA Load
R = Recept	3240	720	360	4320	1.00	4320
K = Kitchen	3567	5980	2900	12447	0.90	11202
M = Motor	4235.6	1248	1494.6	9633.2	1.00	9633
L = Lighting	0	992	569.8	1561.8	1.25	1952
H = Heat	0	2250	2250	4500	1.25	5625
PV = Solar	0	0	0	0	1.25	0
EV = Elec. Vehicle	0	0	0	0	1.25	0
O = Other	0	0	50	50	1.00	50
Load Totals	11042.6	11190	10279.4	32512	1.01	32782.75
VA of Largest Motor				5491.2	0.25	1372.8
Subfeed VA Loads	0.0	0.0	0.0			
Total VA Loads	11372.3	11402.5	11380.8			
Load Balance	99.9%	100.2%	100.0%			
VA Load This Panel						34155.6
Amperage This Panel Per Largest Phase VA						95.0

Voltage Drop Summary				
Total Feeder Voltage Drop		Worst Case Branch Circuit		Worst Case Voltage Drop
MSB-->E	0.46%	E-11B,13A	3.50%	3.96%

ELECTRICAL SHEET INDEX	
E0	ELECTRICAL SCHEDULES, ONE-LINE, & GENERAL NOTES
E1	ELECTRICAL PLAN
E2	ELECTRICAL PLAN – ROOF

ELECTRICAL SCOPE OF WORK	
1)	INSTALLATION OF NEW POWER SYSTEMS
2)	INSTALLATION OF NEW LIGHTING SYSTEMS AND ASSOCIATED POWER AND CONTROLS

ONE-LINE DIAGRAM

The diagram illustrates a power distribution system. At the top left, a line labeled "TO (E) UTILITY SERVICE CONNECTION" leads to a bus system. The bus system consists of a top line labeled "(E) 600A MSB, 120/208V, 3Ø, 4W" and a bottom line labeled "(E) NEUTRAL BUS". Below the neutral bus is a "(E) GROUND BUS". Three vertical lines connect the ground bus to "TO COLD WATER PIPE", "TO BUILDING STEEL", and "TO UFER GROUND". Five units, labeled "UNIT 18" through "UNIT 21", are connected to the bottom line of the bus system. Each unit connection includes a circuit breaker symbol (a circle with a vertical line through it) and a label "(E) 100A 3P". A box at the bottom right is labeled "(E) PANEL E UNIT 22".

ONE-LINE NOTES:

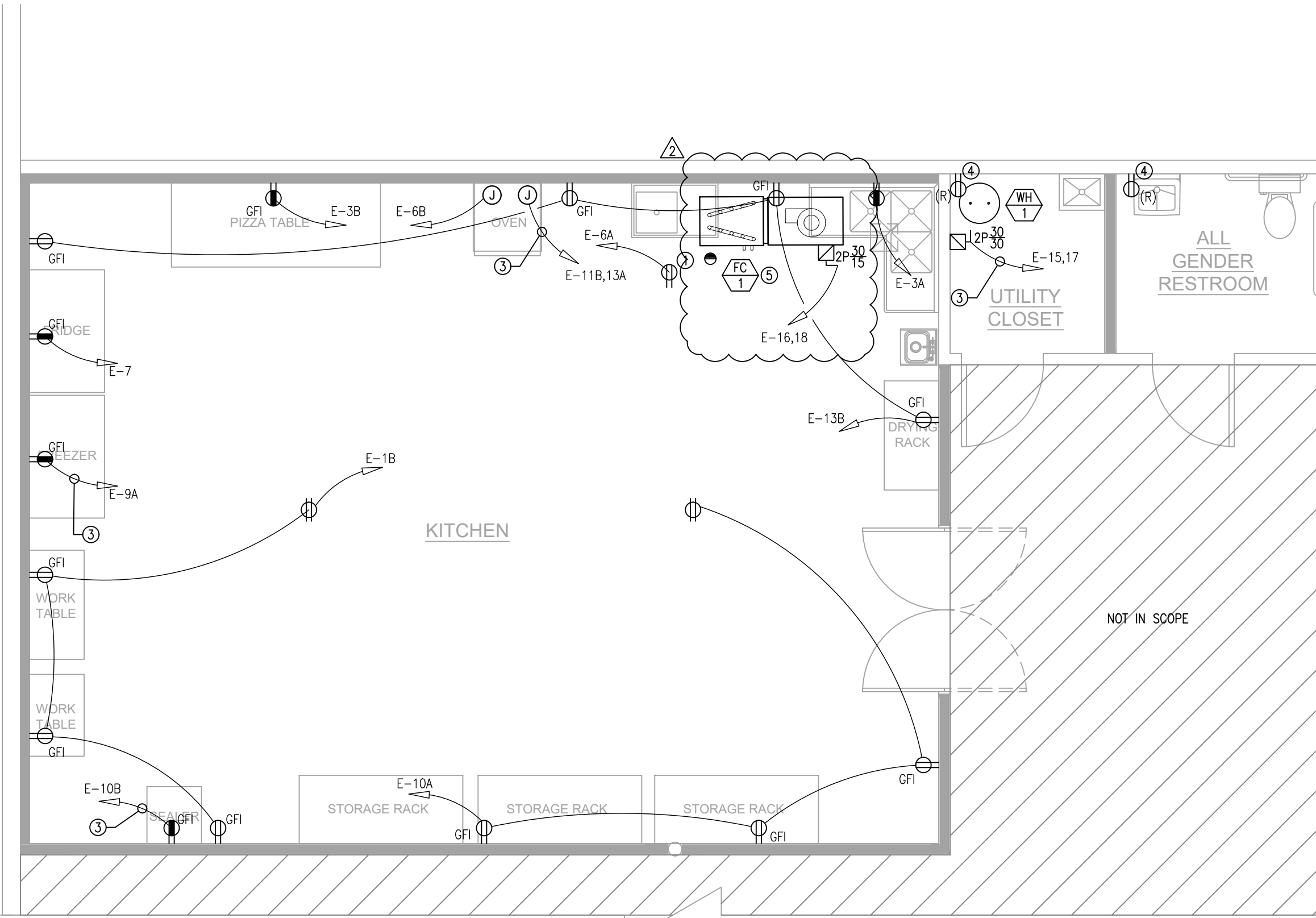
1. POST A DATED AVAILABLE FAULT CURRENT CALCULATION AT MSB PER CEC 110.24.
2. (N) - NEW
(E) - EXISTING
(R) - REPLACED
3. GEC - GROUNDING ELECTRODE CONDUCTOR
SBJ - SYSTEM BONDING JUMPER
SSBJ - SUPPLY SIDE BONDING JUMPER

ELECTRICAL LEGEND		DATE	06-03-20
	2X4 LIGHT FIXTURE (SURFACE, RECESSED)	DESCRIPTION	PC #1
	2X2 LIGHT FIXTURE (SURFACE, RECESSED)		
	FIXTURE W/ BATTERY BACKUP (TYP. ALL SHADED FIXTURES)		
	RECESSED DOWNLIGHT		
	ROUND SURFACE MOUNT LIGHT	REVISION	A
	PENDANT LIGHT		
	TRACK LIGHT	JOB NO.	20045
	SIGNLIGHT	DRAWN	
	WALL MOUNT LIGHT	CHECKED	
	POLE MOUNT LIGHT - 2 HEAD		
	POLE MOUNT LIGHT - 1 HEAD		
	EXIT/EMERGENCY COMBO LIGHT		
	EMERGENCY FIXTURE		
	EXIT LIGHT		
	CEILING EXHAUST FAN	ISSUED FOR	PERMIT
	WALL MOUNTED SWITCH D=DIMMER V=VACANCY 3=3-WAY	DATE	06-03-2020
	PHOTOCELL	OPTIMIZED ENERGY & FACILITIES CONSULTING, INC. 5734 LoneTree Boulevard, Rocklin, CA 95765 Office: (916) 626 5516 / Fax: (916) 303 4311	
	PRIMARY DAYLIGHT AREAS		
	SECONDARY DAYLIGHT AREAS		
	CEILING MOUNTED VACANCY SENSOR		
	CEILING MOUNTED PARTIAL-OFF OCCUPANCY SENSOR		
	DUPLEX OUTLET - WALL, FLOOR, CEILING MOUNTED		
	QUADRUPLUX OUTLET - WALL, FLOOR, CEILING MOUNTED		
	DEDICATED OUTLET - WALL, FLOOR, CEILING MOUNTED		
	2-POLE OUTLET - 208/240V - WALL, FLOOR, CEILING MOUNTED		
	30A, 120V OUTLET (NEMA 5-30R)		
	30A, 208/240V OUTLET (NEMA 6-30R)		
	PHONE-DATA PORT		
	SMOKE DETECTOR		
	CARBON MONOXIDE DETECTOR		
	JUNCTION BOX		
	DISCONNECT - POLES (CAPACITY/FUSE)		
	HOME RUN - PANEL-POLE(S)		
	WIRE/CONDUIT - OVERHEAD		
	WIRE/CONDUIT - UNDERGROUND	SHEET TITLE ELECTRICAL SCHEDULES, ONE-LINE, & GEN. NOTES	
	POWER PANEL		
	TRANSFORMER		
A.F.F.	ABOVE FINISHED FLOOR		
+X"X"	HEIGHT A.F.F.		
D	DIMMER		
M	OCCUPANCY SENSOR		
V	VACANCY SENSOR		
GFI	GROUND FAULT INTERRUPTER		
CH	COUNTERHEIGHT (+44") AND GFI		
WP	WEATHERPROOF	ORIGINAL DATE 03-13-2020	
HP	HORSEPOWER		
BHP	BRAKE HORSEPOWER		
N.T.S.	NOT TO SCALE		
TYP.	TYPICAL		
GND	GROUND		
GEC	GROUNDING ELECTRODE CONDUCTOR		
SBJ	SYSTEM BONDING JUMPER		
SSBJ	SUPPLY SIDE BONDING JUMPER		
BCPM	BRANCH CIRCUIT POWER METER		

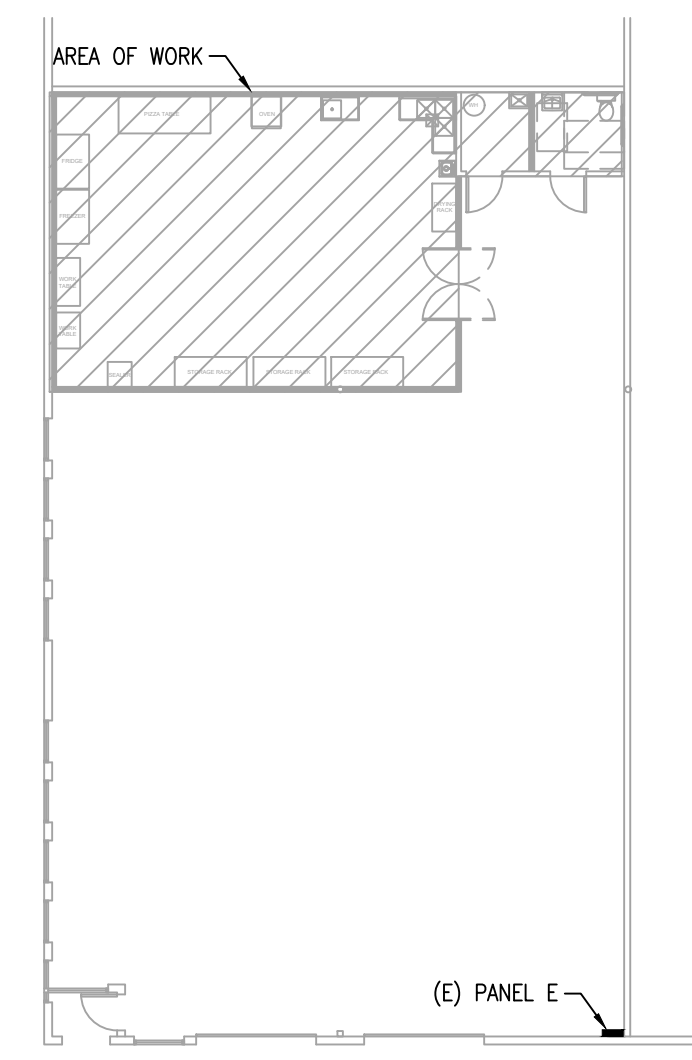
SARTORI KITCHEN
5710 AUBURN BLVD. UNIT 22
SACRAMENTO, CA 95841

ELECTRICAL SCHEDULES, ONE-LINE, & GEN. NOTES

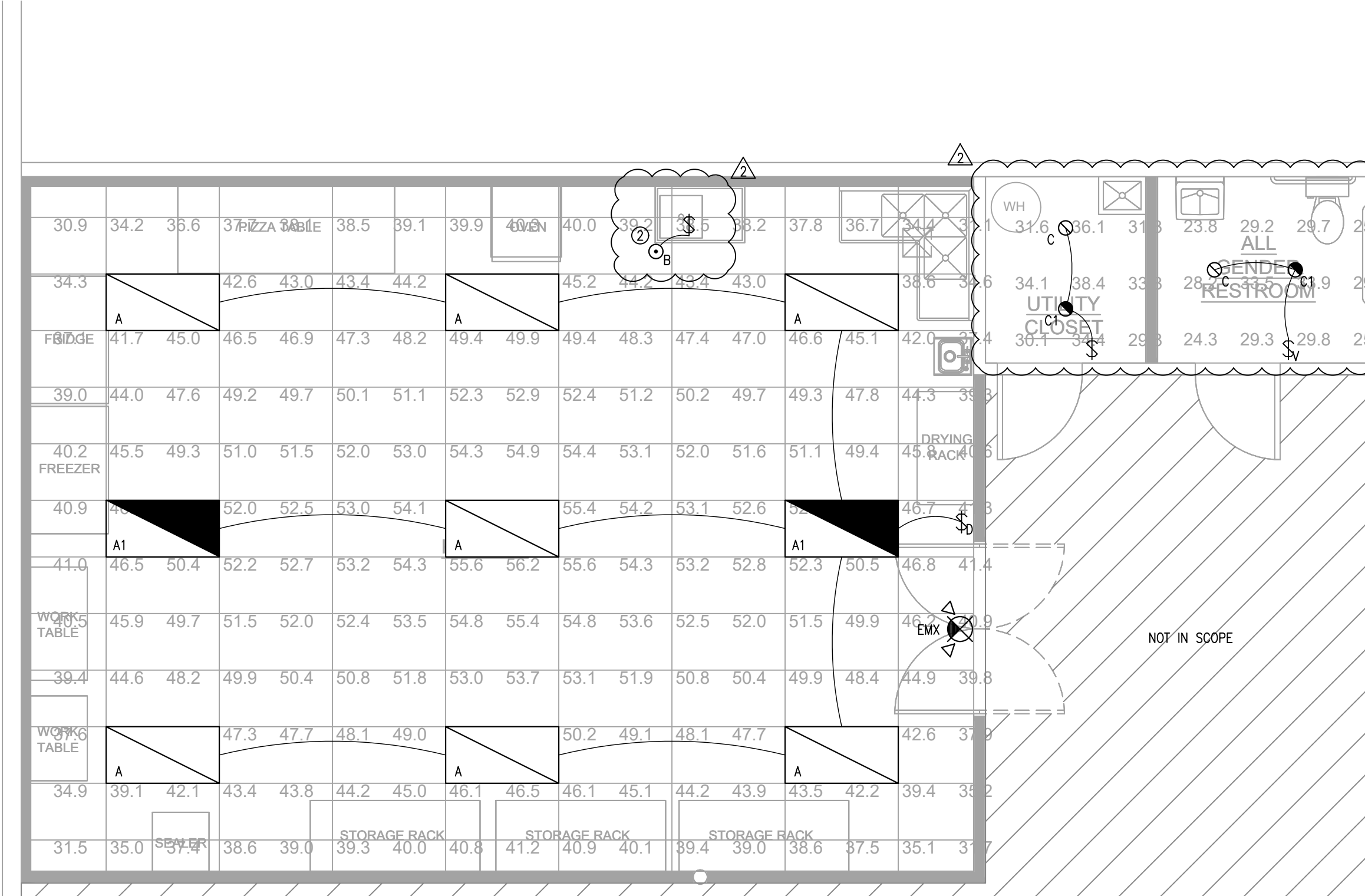
E0



A ELECTRICAL PLAN - POWER
SCALE: 1/4"=1'-0"



C ELECTRICAL KEY PLAN
SCALE: 1/16"=1'-0"



B ELECTRICAL PLAN - LIGHTING
SCALE: 1/4"=1'-0"



D ELECTRICAL SITE PLAN
SCALE: NTS



- SHEET NOTES:**
- (E) EXISTING
(N) NEW
(R) RELOCATED
(D) DEMO
 - ALL RECEPTACLES/EQUIPMENT ARE (N) U.O.N.
 - ALL LIGHT FIXTURES/CONTROLS ARE (N) U.O.N.
 - ALL WIRING TO BE #12 AWG U.O.N.
 - BOTTOM OF BOXES FOR RECEPTACLES AND PORTS TO BE MINIMUM 15" ABOVE FINISH FLOOR, U.O.N.
 - GFI RECEPTACLES SHALL BE WIRED IN PARALLEL
 - TOP OF BOXES FOR SWITCHES TO BE MAXIMUM 48" ABOVE FINISH FLOOR, U.O.N.
 - ALL (N) INTERIOR LIGHT FIXTURES TO BE ON CIRCUIT E-5B
 - ALL INTERIOR LIGHT FIXTURES HAVE AUTOMATIC SHUT-OFF VIA TIMESWITCH PER CENC 130.1(C)
 - ALL NEW RECESSED LIGHT FIXTURES TO BE INSTALLED WITHIN ONE-HALF INCH OF COMBUSTIBLE MATERIAL SHALL BE RATED FOR AND LABELED AS TYPE IC (INSULATION CONTACT) AND SEALED TO PREVENT LEAKAGE OF AIRBORNE MOISTURE AS PER CEC 410.116
 - ALL LIGHTING CONTROLS, INCLUDING BUT NOT LIMITED TO TIME SWITCHES, PHOTOSENSORS, DIMMERS, AND OCCUPANCY SENSING DEVICES SHALL COMPLY WITH CENC 110.9, 130.0-130.5, 140.6-140.8, AND 141.0. CONTROLS MAY BE SELF-CONTAINED OR PART OF A LIGHTING CONTROL SYSTEM AS DEFINED IN CENC 100.1. RECOMMENDED LIGHTING CONTROL SYSTEMS MEETING THESE REQUIREMENTS INCLUDE ACUITY NIGHT AND EATON WAXELIX. CONTROL ELEMENTS SHOWN ON PLANS ARE THE MINIMUM REQUIRED AND SHALL BE INCLUDED IN ANY LIGHTING CONTROL SYSTEM. CONSULT PREFERRED MANUFACTURER FOR PRODUCT SPECIFICATION AND INSTALLATION DETAILS
 - LIGHTING OF 50 FOOT-CANDLES (FTC) INTENSITY MUST BE PROVIDED DURING HOURS OF OPERATION IN THE KITCHEN AND OTHER FOOD HANDLING AREAS. LIGHTING OF 20 FTC INTENSITY MUST BE PROVIDED WHERE FOOD IS PROVIDED FOR SELF-SERVICE, IN SERVER STATIONS WHERE FOOD IS PREPARED, IN WASHING ROOMS, IN RESTROOMS, AND IN ALL ROOMS DURING PERIODS OF CLEANING. LIGHTING OF 10 FTC INTENSITY MUST BE PROVIDED IN BAR AREAS.
 - LIGHTS MUST BE PROVIDED WITH SHATTERPROOF PROTECTION OR CONTAINMENT WHEN LOCATED OVER AREAS USED FOR FOOD PREPARATION (INCLUDING BEVERAGES), UTENSIL WASHING, OPENED FOOD STORAGE, AND WHERE THE LIGHT FIXTURES ARE EXPOSED TO EMPLOYEE CONTACT (E.G. INSIDE REFRIGERATION)
 - CONTRACTOR TO TEST ALL (E) GFI RECEPTACLES TO ENSURE GFI PROTECTION, REPLACE AS NEEDED
 - CONNECT ALL EMERGENCY/EXIT LIGHT FIXTURES TO NEAREST UNSWITCHED HOT LEG LIGHTING CIRCUIT
 - EXIT SIGNS SHALL BE ILLUMINATED AT ALL TIMES. TO ENSURE CONTINUED ILLUMINATION FOR A DURATION OF NOT LESS THAN 90 MINUTES IN CASE OF PRIMARY POWER LOSS, THE SIGN ILLUMINATION MEANS SHALL BE CONNECTED TO AN EMERGENCY POWER SYSTEM PROVIDED FROM STORAGE BATTERIES, UNIT EQUIPMENT OR AN ON-SITE GENERATOR

- KEY NOTES:**
- CONVENIENCE RECEPTACLE IN ATTIC
 - LIGHT FIXTURE IN ATTIC FOR UNIT MAINTENANCE
 - (2) #10 CU THWN
(1) #10 CU GND
3/4" CONDUIT
 - CONNECT RELOCATED OUTLET TO EXISTING CIRCUIT OR RE-CIRCUIT AS REQUIRED
 - FAN COIL LOCATED ABOVE CEILING

LIGHTING REQUIREMENTS:

- MIN 50 FT. CANDLES REQUIRED IN FOOD PREP AREAS
- MIN 20 FT. CANDLES REQUIRED IN RESTROOMS AND BARS
- MIN 10 FT. CANDLES REQUIRED IN REFRIGERATORS
- MIN 10 FT. CANDLES REQUIRED IN STORAGE AREAS
- LIGHTING SHALL BE SHATTERPROOF OR SHIELDED

DATE	DESCRIPTION	REVISION	JOB NO.	DRAWN	CHECKED	ORIGINAL DATE
06-03-2020	PC #1		20045			03-13-2020

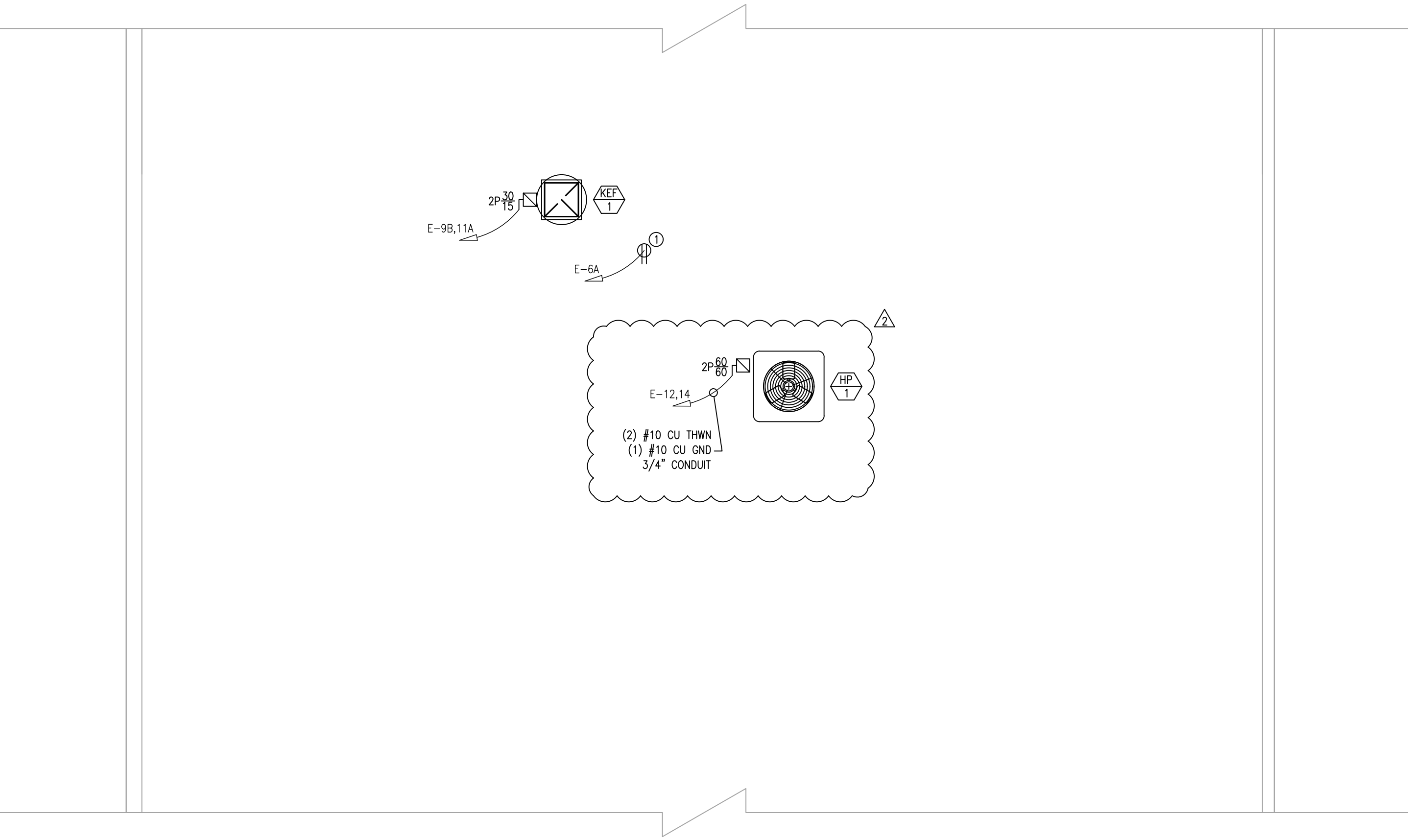
ISSUED FOR: PERMIT
DATE: 06-03-2020

OPTIMIZEDENERGY™
& FACILITIES CONSULTING, INC.
5734 Lonetree Boulevard, Rocklin, CA 95765
Office: (916) 626 5518 / Fax: (916) 303 4311

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5710 AUBURN BLVD. UNIT 22
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SHEET TITLE
ELECTRICAL PLAN

SHEET NO.
E1



- SHEET NOTES:**
- (E) EXISTING
(N) NEW
(R) RELOCATED
(D) DEMO
 - ALL RECEPTACLES/EQUIPMENT ARE (N) U.O.N.
 - ALL WIRING TO BE #12 AWG U.O.N.
 - ALL DISCONNECT SWITCHES LOCATED OUTDOORS SHALL BE NEMA 3R PER CEC TABLE 110.28
 - ALL EXTERIOR RECEPTACLES TO BE TYPE WEATHER RESISTANT, GFCI WITH EXTRA DUTY IN-USE COVER, EXTRA DUTY, PER CEC 210.8 AND 406.9(B)

REVISION	DESCRIPTION	DATE
1	PC #1	06-03-2020

JOB NO.	20045
DRAWN	
CHECKED	
ORIGINAL DATE	03-13-2020



ISSUED FOR	DATE
PERMIT	06-03-2020



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SACRAMENTO, CA 95841

SHEET TITLE
ELECTRICAL PLAN
ROOF

SHEET NO.
E2

A ELECTRICAL PLAN - ROOF
SCALE: 1/4"=1'-0"



PLUMBING GENERAL NOTES

- 1) ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN COMPLIANCE WITH THE FOLLOWING CODES AS AMENDED AND ADOPTED BY THE AUTHORITY(IES) HAVING JURISDICTION: 2019 CALIFORNIA ADMINISTRATIVE CODE (CAC), 2019 CALIFORNIA BUILDING CODE (CBC), 2019 CALIFORNIA FIRE CODE (CFC), 2019 CALIFORNIA MECHANICAL CODE (CMC), 2019 CALIFORNIA PLUMBING CODE (CPC), 2019 CALIFORNIA ELECTRICAL CODE (CEC), 2019 CALIFORNIA ENERGY CODE (CEC), 2019 CALIFORNIA GREEN BUILDING CODE (CGC), NATIONAL FIRE PROTECTION ASSOCIATION (NFPA), OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA), AND ANY OTHER LOCAL CODES, ORDINANCES, REGULATIONS, OR AUTHORITIES HAVING JURISDICTION. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES OR OTHER CODES AND REGULATIONS APPLICABLE TO THIS PROJECT. THESE CODES SHALL DETERMINE MINIMUM REQUIREMENTS FOR MATERIALS, METHODS, AND LABOR PRACTICES NOT OTHERWISE DEFINED IN THESE SPECIFICATIONS.
- 2) CONTRACTOR TO EXAMINE THE PROPOSED WORK SITE AND BECOME FAMILIAR WITH ALL JOB CONDITIONS AFFECTING THE WORK SHOWN. CONTRACTOR(S) SHALL FIELD-VERIFY SITE CONDITIONS INCLUDING LOCATIONS AND SIZES OF EXISTING PIPING, VALVES, CLEANOUTS, WASTE MAINS, GAS METERS, ETC., AND BIDS SHALL BE BASED ON ACTUAL FIELD CONDITIONS. NO ADDITIONAL ALLOWANCE WILL BE GRANTED DUE TO LACK OF KNOWLEDGE OF SITE CONDITIONS. ACCEPT SOLE AND COMPLETE RESPONSIBILITY FOR CONDITIONS OF THE JOBSITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK.
- 3) DRAWINGS INDICATE DIAGRAMMATICALLY THE ARRANGEMENT OF PRINCIPAL APPLIANS, PIPING, DUCTWORK, AND OTHER MATERIAL. FOLLOW DRAWING AS CLOSELY AS POSSIBLE IN ORDER TO ACHIEVE A NEAT INSTALLATION WHILE STILL WORKING AROUND ANY OBSTRUCTIONS. INSPECT SITE CONDITIONS AFFECTING THE WORK AND PROVIDE FITTINGS AND ACCESSORIES AS REQUIRED TO MEET CONDITIONS WHETHER SHOWN OR NOT.
- 4) IT IS NOT THE INTENTION OF THE PLANS AND SPECIFICATIONS TO COVER ALL INCIDENTALS REQUIRED TO PROVIDE COMPLETE AND FULLY-OPERATIONAL SYSTEMS. THE CONTRACTOR IS TO FURNISH ALL LABOR, MATERIALS, TRANSPORTATION, AND ALL NECESSARY SERVICES, ETC., REQUIRED TO ACCOMPLISH THIS RESULT. ANYTHING WHICH MAY BE REASONABLY CONSTRUED AS A NECESSARY PART OF THE INSTALLATION SHALL BE INCLUDED, WHETHER SPECIFICALLY SHOWN OR MENTIONED OR NOT. ENGINEER WILL PROVIDE INTERPRETATIONS UPON REQUEST.
- 5) DEFINITIONS:
 - a. WORK: LABOR AND MATERIALS OF THE CONTRACTOR AND/OR SUBCONTRACTOR.
 - b. FURNISH: OBTAIN, COORDINATE, SUBMIT THE NECESSARY DRAWINGS, DELIVER TO THE JOBSITE IN NEW CONDITION AND GUARANTEE.
 - c. PROVIDE: FURNISH AND INSTALL.
 - d. CONNECT: BRING SERVICE TO THE EQUIPMENT AND MAKE FINAL ATTACHMENTS INCLUDING NECESSARY PIPE FITTINGS, DUCTWORK, TRANSITIONS, ETC.
 - e. CONCEALED: HIDDEN FROM SIGHT IN CHASES, FURRED SPACES, SHAFTS, ABOVE CEILING, EMBEDDED IN CONSTRUCTION, UNDER CRAWL SPACES, OR BURIED.
 - f. EXPOSED: NOT INSTALLED UNDERGROUND OR CONCEALED AS DEFINED ABOVE.
 - g. PERFORMANCE: CONTRACTOR SHALL PERFORM ALL WORK SPECIFIED, INDICATED, AND REQUIRED UNLESS OTHERWISE NOTED, INCLUDING FINAL CONNECTIONS, IN A WORKMANSLIKE MANNER USING WORKERS SKILLED AND EXPERIENCED IN THE TRADE, PIPES, FITTINGS, EQUIPMENT, GRILLES, REGISTERS, ETC. TO BE INSTALLED LEVEL, SQUARE, OR CENTERED, ETC. TO GIVE A NEAT APPEARANCE.
 - h. FULL FUNCTION: PROVIDE ALL MINOR ITEMS NECESSARY FOR A COMPLETE AND FULLY FUNCTIONAL INSTALLATION.
- 6) CONTRACTOR SHALL CONFIRM ALL SITE VOLTAGES BEFORE BIDDING AND ORDERING EQUIPMENT. REIMBURSE ELECTRICAL CONTRACTOR, AT NO CHARGE TO CLIENT, FOR ELECTRICAL CONTRACTOR'S COST INCURRED DUE TO SUBSTITUTION OF MECHANICAL EQUIPMENT HAVING ELECTRICAL REQUIREMENTS DIFFERING FROM SITE CONDITIONS.
- 7) CONTRACTOR SHALL PROVIDE THE OWNER WITH COPIES OF OPERATION, MAINTENANCE, AND PREVENTATIVE MAINTENANCE MANUALS FOR EACH MODEL AND TYPE OF PLUMBING AND MECHANICAL EQUIPMENT.
- 8) CONTRACTOR SHALL PROVIDE EVIDENCE OF LICENSING, BONDING, AND INSURANCE, AND PROVIDE OTHER NECESSARY ADMINISTRATIVE FUNCTIONS FOR CONTRACTOR'S WORK.
- 9) CONTRACTOR SHALL PROCURE AND PAY FOR ALL REQUIRED PERMITS AND SERVICE CHARGES.
- 10) COORDINATION: CONFORM TO GENERAL CONSTRUCTION CONTRACT DOCUMENTS EXCEPT AS MODIFIED HEREIN. REFER ALSO TO STRUCTURAL AND ELECTRICAL CONTRACT DOCUMENTS. COORDINATE ALL WORK WITH OTHER TRADES.
- 11) CUTTING AND PATCHING: CUT AND PATCH AS REQUIRED. CUT OR WELD STRUCTURAL MEMBERS ONLY WITH APPROVAL OF A STRUCTURAL ENGINEER. PATCHING SUBJECT TO ACCEPTANCE BY OWNER.
- 12) SAW CUT TRENCHES IN SLAB SHALL BE FULLY RESTORED AND REINFORCED TO PREVENT SAGGING. ROUGHEN SAW CUT EDGES PRIOR TO RE-POURING CONCRETE.
- 13) COORDINATE ALL WORK WITH OTHER TRADES TO PROVIDE A COMPLETE INSTALLATION. CONNECT ALL EQUIPMENT FURNISHED BY OTHERS AS REQUIRED. INSTALL ALL WORK TO CLEAR ARCHITECTURAL AND STRUCTURAL MEMBERS. INSTALL ALL ABOVE GRADE (OVERHEAD) PIPING AS HIGH AS PRACTICAL.
- 14) RESTORE ALL DAMAGE RESULTING FROM YOUR WORK AND LEAVE PREMISES IN CLEAN CONDITION WHEN FINISHED WITH WORK. ADJUST, CLEAN, REPAIR, OR REPLACE PRODUCTS, WHICH HAVE BEEN DAMAGED.
- 15) GUARANTEE ALL WORK AND MATERIALS FOR ONE YEAR MINIMUM FROM DATE OF FINISHING NOTICE OF COMPLETION.
- 16) PROVIDE FLASHING AND COUNTER FLASHING FOR ALL WALL AND ROOF PENETRATIONS.
- 17) ADJUSTMENTS: MAKE MINOR ADJUSTMENTS TO WORK WHERE REQUESTED BY OWNER, WHEN SUCH ADJUSTMENTS ARE NECESSARY TO PROPER OPERATION AND WITHIN THE INTENT OF THE CONTRACT.
- 18) MATERIALS AND EQUIPMENT: PROVIDE NEW, UL-LISTED, COMMERCIAL-GRADE MATERIALS, DEVICES, EQUIPMENT, AND FIXTURES SUITABLE FOR THE ENVIRONMENT WHERE INSTALLED. REUSE EXISTING ONLY WHEN COMPLIANT WITH THE CONTRACT DOCUMENTS, IN GOOD CONDITION, AND APPROVED BY THE ENGINEER.
- 19) INSTALLATION: INSTALL ALL MATERIALS, EQUIPMENT, AND SYSTEMS IN FULL ACCORD WITH MANUFACTURER'S INSTRUCTIONS.
- 20) LAYOUT: INSTALL ALL PIPING AND DUCTWORK TO PRESENT A NEAT AND ORDERLY APPEARANCE. RUN ALL LINES PARALLEL WITH BUILDING CONSTRUCTION AS MUCH AS POSSIBLE. MAINTAIN HEADROOM, EQUIPMENT CLEARANCE, AND GRADIENT WHERE REQUIRED. ALLOW FOR EXPANSION & CONTRACTION.
- 21) ACCESS DOORS: PROVIDE ACCESS DOORS OR PANELS FOR ALL VALVES, CLEANOUTS, DAMPERS, CONTROLS, DEVICES, AND OTHER ITEMS REQUIRING INSPECTION OR MAINTENANCE.
- 22) START-UP: THOROUGHLY TEST AND DEMONSTRATE PROPER OPERATION OF ALL SYSTEMS AND EQUIPMENT MODIFIED, FURNISHED OR INSTALLED UNDER THIS CONTRACT.
- 23) WARRANTY: ALL MATERIALS AND EQUIPMENT INSTALLED UNDER THIS CONTRACT SHALL BE GUARANTEED FREE FROM ALL MECHANICAL, ELECTRICAL, AND WORKMANSHIP DEFECTS FOR A MINIMUM OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES TO THE PREMISES CAUSED BY LEAKS AND/OR BREAKS IN PIPES AND FIXTURES INSTALLED UNDER THIS CONTRACT, AS WELL AS ANY DAMAGE FROM LEAKS VIA ROOF PENETRATIONS MADE AND SEALED UNDER CONTRACTOR'S SCOPE.
- 24) PATCHING & PAINTING: RESTORE ANY DAMAGE RESULTING FROM THE WORK AND LEAVE PREMISES CLEAN. ADJUST, CLEAN, REPAIR, AND/OR REPLACE ANY ITEMS DAMAGED BY THE WORK. RESTORE WALL AND ROOF PENETRATIONS TO MATCH SURROUNDING WALL OR ROOF, RESPECTIVELY.

PLUMBING CALGREEN NOTES

5.303.3.1 THE EFFECTIVE FLUSH VOLUME OF ALL WATER CLOSETS SHALL NOT EXCEED 1.28 GALLONS PER FLUSH. TANK-TYPE WATER CLOSETS SHALL BE CERTIFIED TO THE PERFORMANCE CRITERIA OF THE U.S. EPA WATERSENSE SPECIFICATION FOR TANK-TYPE TOILETS.

5.303.3.2 THE EFFECTIVE FLUSH VOLUME OF WALL-MOUNTED URINALS SHALL NOT EXCEED 0.125 GALLONS PER FLUSH. ALL OTHER URINALS SHALL NOT EXCEED 0.5 GALLONS PER FLUSH.

5.303.3.3 SINGLE SHOWERHEADS SHALL HAVE A MAXIMUM FLOW RATE OF NOT MORE THAN 1.8 GALLONS PER MINUTE AT 80 PSI. SHOWERHEADS SHALL BE CERTIFIED TO THE PERFORMANCE CRITERIA OF THE U.S. EPA WATERSENSE SPECIFICATION FOR SHOWERHEADS. WHEN A SHOWER IS SERVED BY MORE THAN ONE SHOWERHEAD, THE COMBINED FLOW RATE OF ALL SHOWERHEADS AND/OR OTHER SHOWER OUTLETS CONTROLLED BY A SINGLE VALVE SHALL NOT EXCEED 1.8 GALLONS PER MINUTE AT 80 PSI, OR THE SHOWER SHALL BE DESIGNED TO ALLOW ONLY ONE SHOWER OUTLET TO BE IN OPERATION AT A TIME.

5.303.3.4 NON-RESIDENTIAL LAVATORY FAUCETS SHALL HAVE A MAX FLOW RATE OF NOT MORE THAN 0.5 GPM AT 60 PSI. KITCHEN FAUCETS AND WASH FOUNTAINS SHALL HAVE A MAXIMUM FLOW RATE OF NOT MORE THAN 1.8 GPM AT 60 PSI. KITCHEN FAUCETS SHALL BE TEMPORARILY EXEMPTED FROM 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. METERING FAUCETS SHALL NOT DELIVER MORE THAN 0.20 GALLONS PER CYCLE.

5.303.5 FOR THOSE OCCUPANCIES WITHIN THE AUTHORITY OF THE CALIFORNIA BUILDING STANDARDS COMMISSION AS SPECIFIED IN SECTION 103, THE PROVISIONS OF SECTION 5.303.3 AND 5.303.4 SHALL APPLY TO NEW FIXTURES IN ADDITIONS OR AREAS OF ALTERATIONS TO THE BUILDING.

5.303.6 PLUMBING FIXTURES AND FITTINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE CALIFORNIA PLUMBING CODE AND SHALL MEET THE APPLICABLE STANDARDS REFERENCED IN CPC TABLE 1701.1 AND CALGREEN CHAPTER 6

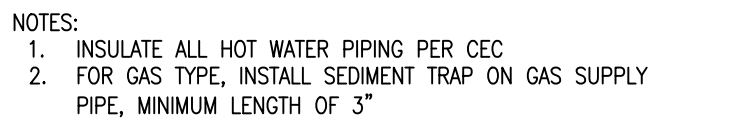
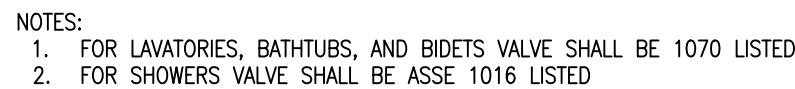
5.410.45 PROVIDE THE BUILDING OWNER WITH DETAILED OPERATING AND MAINTENANCE INSTRUCTIONS AND COPIES OF GUARANTEES/WARRANTIES FOR EACH SYSTEM PRIOR TO FINAL INSPECTION.

TAG	FIXTURE	TYPE	MOUNTING	MANU.	MODEL NO.	WATER SUPPLY			DRAIN		PIPE SIZES				REMARKS
						MANU.	MODEL NO.	MAX GPM/GPF	TYPE	SIZE	WASTE	VENT	CW	HW	
CO-1	CLEANOUT	WALL	-	ZURN	Z1446	-	-	-	-	SEE PLAN	SEE PLAN	-	-	-	
CO-2	CLEANOUT	FLOOR	-	ZURN	Z1400	-	-	-	-	SEE PLAN	SEE PLAN	-	-	-	
ET-1	EXPANSION TANK	-	AMTROL	EX-30	-	-	4.4	-	-	-	-	9.0			
FD-1	FLOOR DRAIN	-	FLOOR	ZURN	Z415B	-	-	-	P-TRAP	1-1/2"	2"	1-1/2"	-	-	TRAP PRIMER CONNECTION (WHERE REQUIRED) AND NO-HUB OUTLET CONNECTION
FS-1	FLOOR SINK	-	FLOOR	ZURN	Z1900	-	-	-	P-TRAP	1-1/2"	2"	1-1/2"	-	-	ACID RESISTANT COATED INTERIOR, ALUMINUM DOME BOTTOM STRAINER
MS-1	MOP SINK	-	FLOOR	FIAT	MSB-2424	CHICAGO	897	-	P-TRAP	3"	2"	1-1/2"	1/2"	1/2"	
SK-1	HAND SINK	SINGLE COMPARTMENT	UNDER COUNTER	BY OWNER	BY OWNER	CHICAGO	786-E35-319ABCP	1.8	P-TRAP	1-1/2"	2"	1-1/2"	1/2"	1/2"	
SK-2	PREP SINK	SINGLE COMPARTMENT	UNDER COUNTER	BY OWNER	BY OWNER	CHICAGO	786-E35-319ABCP	1.8	P-TRAP	1-1/2"	2"	1-1/2"	1/2"	1/2"	
SK-3	TRIPLE SINK	TRIPLE COMPARTMENT	-	BY OWNER	BY OWNER	FISHER	34231	1.8	P-TRAP	1-1/2"	2"	1-1/2"	1/2"	1/2"	
TMW-1	THERMOSTATIC MIXING VALVE	-	-	WATTS	LFMMV-M1	-	-	-	-	-	-	1/2"	1/2"		ASSE STANDARD 1017, 1069, AND 1070 LISTED, 0.5-12 GPM FLOW RATING
TP-1	TRAP PRIMER	-	-	PRECISION	P2-500	-	-	-	-	-	-	-	-	-	INSTALL IN ACCESSIBLE AREA AND IN ACCORDANCE WITH MANUFACTURER/LOCAL CODES

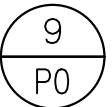
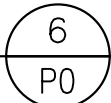
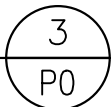
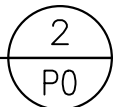
PLUMBING EQUIPMENT SCHEDULE (ORIGINAL)													
TAG	FIXTURE	TYPE	MANU.	MODEL NO.	LOCATION	SERVES	CAPACITY (GAL)	INPUT (KW)	ELECTRICAL		WEIGHT (LBS)	REMARKS	
									HR.	VOLTAGE			AMPS
WH-1	WATER HEATER	ELECTRIC TANK	RHEEM	ELD52-TB	UTILITY CLOSET	KITCHEN/PANTRY CLOSET	50.0	(9.0)	-	240-1ø-60Hz	-	155	ENSURE MAXIMUM 140°F THERMOSTAT SETPOINT
ET-1	EXPANSION TANK	-	AMTROL	EX-30	-	-	4.4	-	-	-	-	9.0	-



1. TOP 6" BELOW SLAB SHOULD CONSIST OF A MOISTURE BARRIER WITH 4" OF FREE-DRAINING GRAVEL, SUCH AS 3/4" CLEAN, CRUSHED, UNIFORMLY GRADED GRAVEL WITH LESS THAN 3% PASSING #200 SIEVE, OVERLAY BY A MINIMUM 10-MIL THICK IMPERMEABLE MEMBRANE. THE MEMBRANE SHOULD THEN BE COVERED WITH 2" OF SAND.
2. IF COMPACTION CANNOT BE ACHIEVED DUE TO PHYSICAL CONSTRAINT, THE TRENCH SHOULD BE BACKFILLED WITH 1 TO 2 SACK MIX SAND SLURRY BACKFILLED TO THE TOP OF TRENCH (IN THIS CASE, MOISTURE BARRIER DESCRIBED ABOVE WOULD NOT BE NECESSARY)



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P0



PLUMBING SHEET INDEX	
P0	PLUMBING SCHEDULES, DETAILS, CALCULATIONS, & GEN. NOTES
P1	PLUMBING PLAN – FLOOR

PLUMBING SCOPE OF WORK	
1)	INSTALLATION OF ALL COLD AND HOT WATER PIPING AND FITTINGS FOR NEW FIXTURES
2)	INSTALLATION OF ALL SEWER AND VENT PIPING AND FITTINGS FOR NEW FIXTURES

PIPE MATERIAL SCHEDULE			
TYPE	SIZE	JOINING METHOD	NOTES
SANITARY WASTE BELOW GRADE	ALL	SOLVENT	ABS
SANITARY WASTE ABOVE GRADE	ALL	SOLVENT	ABS
SANITARY VENT	ALL	SOLVENT	ABS
CONDENSATE PIPING	ALL	SOLVENT	PVC
CONDENSATE PIPING EXPOSED	ALL	SOLVENT	PVC (PROTECTED WITH WATER-BASED LATEX PAINT)
DOMESTIC WATER	ALL	95/5 SOLDER	TYPE "L" OR "K" COPPER W/SEISMIC BRACING

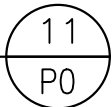
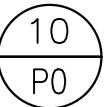
PIPE INSULATION SCHEDULE				
TYPE	SIZE	FLUID TEMP. RANGE (°F)	INSULATION CONDUCTIVITY	INSULATION THICKNESS
DOMESTIC HOT WATER	≤1"	105-140	0.22-0.28	1"
DOMESTIC HOT WATER	1-1/4", 1-1/2"	105-140	0.22-0.28	1-1/2"
DOMESTIC HOT WATER	≥2"	105-140	0.22-0.28	2"

WATER AND SEWER SERVICE CALCULATION								
FIXTURE TYPE	NO.	SEWER		COLD WATER		HOT WATER		TOTAL WATER
		FU	TOTAL	FU	TOTAL	FU	TOTAL	
BAR SINK	2	2	4	2	4	1.5	3	4
FLOOR DRAIN	2	2	4	0	0	0	0	0
FLOOR SINK	1	3	3	0	0	0	0	0
MOP OR SERVICE SINK	1	3	3	3	3	2.25	2.25	3
3-COMPARTMENT SINK	1	3	3	2	2	1.5	1.5	2
EXISTING DEMAND	1	5	5	3.5	3.5	0.75	0.75	3.5
TOTAL FU			22.0		12.5		7.5	12.5
METER LOSS (PSI):					1.0	SIZE (INCHES):		2
EQUIVALENT PIPE LENGTH FROM METER TO MOST REMOTE FIXTURE (FT):					400			
MINIMUM REQUIRED 'SEWER' PIPE SIZE (INCHES):					3			
MAXIMUM REQUIRED 'WATER' FIXTURES UNITS BY PIPE SIZE (INCHES):								
		NOMINAL DIAMETER			FIXTURE UNITS			
		1/2"			0			
		3/4"			4			
		1"			12			
		1-1/4"			21			
(CALCULATIONS PER CPC TABLE 610.4)								

AUTOMATIC SOLID TRANSFER UNIT SCHEDULE						
SYMBOL	MANU.	MODEL	MAX FLOW RATE	GREASE CAPACITY (LBS)	ORIFICE SIZE	REMARKS
GI-1	THERMACO	W-200-IS	20 GPM	40	2"	ASTU GREASE REMOVAL DEVICE

GI-1 SIZING CHART	
FIXTURE TYPE	D.F.U.
TRIPLE SINK	3.0

TOTAL DFU = 3 ----> 2" GREASE WASTE PIPE
2019 CPC TABLE 703.2
GREASE REMOVER SIZED USING 2019 CPC TABLE
1014.2.1 2" GREASE WASTE PIPE REQUIRES A
GREASE INTERCEPTOR WITH A 10 GPM 2-MINUTE
DRAINAGE CAPACITY



PLUMBING LEGEND	
— CW —	COLD WATER
— HW —	HOT WATER
— HWR —	HOT WATER RETURN
— NG —	NATURAL GAS
— SS —	SANITARY SEWER
— SSV —	SANITARY SEWER VENT
VTR	VENT THRU ROOF
AFF	ABOVE FINISHED FLOOR
BF	BELOW FLOOR
FA, TB	FROM ABOVE, TO BELOW
FB, TA	FROM BELOW, TO ABOVE
FU	FIXTURE UNITS
GPM	GALLONS PER MINUTE
TMV	THERMOSTATIC MIXING VALVE
	POC – POINT OF CONNECTION
	GAS POC
	ELECTRICAL POC
	COLD WATER POC
	CONDENSATE OR DRAIN POC
	FLOOR SINK WITH TRAP POC
	CLEANOUT
	FLOOR DRAIN
	FLOOR SINK
	TRAP PRIMER
	WATER HAMMER ARRESTOR
	HOSE BIBB
	BACKFLOW PREVENTER
	SHUT-OFF VALVE
	INSTA-HOT WATER HEATER
	PUMP

JOINT	REVISION	DESCRIPTION	DATE
20045	Δ	PC #1	06-03-2020
	Δ	PC #2	07-13-2020
DRAWN			
CHECKED			
ORIGINAL DATE			03-13-2020

ISSUED FOR	DATE
PERMIT	07-13-2020



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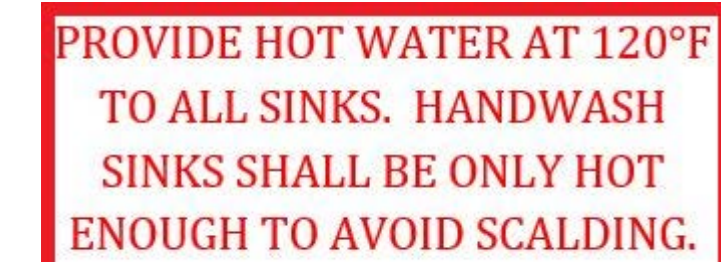
SARTORI KITCHEN
5710 AUBURN BLVD. UNIT 22
SACRAMENTO, CA 95841

SHEET TITLE

PLUMBING
SCHEDULES, DETAILS,
CALCULATIONS,
& GEN. NOTES

SHEET NO.

P0



KEY NOTES:

- ① CONTRACTOR TO FIELD VERIFY EXACT LOCATION OF POC
- ② CONNECT RELOCATED FIXTURE TO (E) SANITARY SEWER AND VENT
- ③ FAN COIL PRIMARY CONDENSATE TO INDIRECT DRAIN TO MOP SINK, SECONDARY FROM PAN TO VISIBLE LOCATION
- ④ RELIEF VALVE AND PIPING TO MOP SINK
- ⑤ INDIRECT DRAIN TO FLOOR SINK
- ⑥ HYDROMECHANICAL GREASE INTERCEPTOR SHALL BE PROVIDED WITH AN APPROVED VENTED FLOW CONTROL DEVICE PER CPC 1014.2
- ⑦ FAN COIL LOCATED ABOVE CEILING



NORTH

SARTORI KITCHEN
5710 AUBURN BLVD. UNIT 22
SACRAMENTO, CA 95841

PLUMBING PLAN
FLOOR

SHEET NO. P1

SHEET NOTES:		DATE	DESCRIPTION	REVISION	JOB NO.	DRAWN	CHECKED	ORIGINAL DATE
1.	(E) EXISTING (N) NEW (R) RELOCATED (D) DEMO	06-03-2020	PC #1	Δ	20045			03-13-2020
2.	ALL APPLIANCES AND FIXTURES/PIPING ARE (N) U.O.N.	07-13-2020	PC #2	Δ				
3.	CONTRACTOR SHALL VERIFY THE EXISTENCE OF A BACKFLOW PREVENTION DEVICE AND PERFORM BACKFLOW TESTING, IF REQUIRED BY THE LOCAL JURISDICTION, DEVICE SHALL BE A REDUCED ZONE ASSEMBLY BACKFLOW PREVENTER. IF DEVICE CANNOT BE FOUND, FURNISH/INSTALL AS NEEDED							
4.	WATER HAMMER ARRESTERS SHALL BE APPROVED MECHANICAL DEVICES AND SHALL BE INSTALLED AS CLOSE AS POSSIBLE TO QUICK ACTING VALVES PER CPC 609.10							
5.	ALL APPLICABLE PIPING SHALL BE INSULATED IN ACCORDANCE WITH CENC 120.3 AND CPC 609.11, SEE PIPE INSULATION SCHEDULE FOR MINIMUM THICKNESS							
6.	INSTALL MIXING VALVES (TMV-1) AT ALL SINKS OR WATER HEATERS TO ENSURE MAXIMUM TEMPERATURE OF 120°F AT SINK							
7.	PROVIDE TRAP PRIMERS AT ALL FLOOR DRAIN LOCATIONS							
8.	ENSURE CLEANOUT TO GRADE EXISTS							
9.	ENSURE 1/4" PER FOOT SLOPE FOR SANITARY SEWER PIPING							
10.	ENSURE MINIMUM 1/8" PER FOOT SLOPE FOR ALL CONDENSATE PIPING AND INSTALL PER CPC 814. ALL CONDENSATE PIPING SHALL BE 1/4"							

ISSUED FOR	DATE
PERMIT	07-13-2020



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