RESOLUTION NO. PC 11-25

A RESOLUTION OF THE PLANNING AND ENVIRONMENTAL QUALITY COMMISSION OF THE CITY OF GARDENA, CALIFORNIA, APPROVING CONDITIONAL USE PERMIT #2-25 AND ENVIRONMENTAL ASSESSMENT #7-25 TO ALLOW THE ON-SITE SALE AND CONSUMPTION OF BEER AND WINE ANCILLARY TO A RESTAURANT ESTABLISHMENT IN THE COMMERCIAL (C-3) ZONE AT 14782 CRENSHAW BOULEVARD, AND FINDING THAT THE PROJECT IS CATEGORICALLY EXEMPT FROM THE PROVISIONS OF THE CALIFORNIA ENVIRONMENTAL QUALITY ACT PURSUANT TO SECTION 15301 (CLASS 1 – EXISTING FACILITY)

14782 CRENSHAW BLVD, GARDENA, CALIFORNIA
(APN: 4064-013-021)

THE PLANNING AND ENVIRONMENTAL QUALITY COMMISSION OF THE CITY OF GARDENA, CALIFORNIA, DOES HEREBY RESOLVE AS FOLLOWS:

SECTION 1. RECITALS

A. On April 15, 2025, Vicky's Bubbly Café submitted an application for a conditional use permit (CUP) to allow the on-site sale and consumption of beer and wine ancillary to a new restaurant (the "Project") known as Vicky's Bubbly Café, located at 14782 Crenshaw Boulevard,(the "Property");

B. The General Plan Land Use Plan designation of the Property is Neighborhood Commercial, and the zoning is C-3 (Commercial);

C. The Property is bounded by Crenshaw Boulevard to the north, single-family residential units to the south (R-1), and General Commercial (C3) to the east and west.

D. On July 31, 2025, a public hearing was duly noticed for Planning and Environmental Quality Commission meeting for August 19, 2025, at 7 PM.

E. On August 19, 2025, the Planning and Environmental Quality Commission held a duly noticed public hearing at which time it considered all material and evidence presented by staff, the applicant, and the public, whether written or oral, and has considered the procedures and the standards required by the Gardena Municipal Code (GMC).

SECTION 2. CONDITIONAL USE PERMIT #2-25 FINDINGS

Conditional Use Permit #2-25 to allow the on-site sale and consumption of beer and wine ancillary to an existing restaurant establishment located in the C-3 zone is hereby approved based on the following findings and is subject to the conditions attached hereto as Exhibit A and as shown on the plans presented to the Planning Commission on August 19, 2025, attached hereto as Exhibit B.

1. **That the use applied for at the location set forth in the application is properly one for which a conditional use permit is authorized by this chapter;**

   Pursuant to section 18.32.030.B of the GMC, a CUP is required for any establishment selling or serving alcoholic beverages for on or off-premises consumption in the General Commercial (C-3) zone. The request for a Type 41 license from the California Department of Alcohol Beverage Control (ABC), will allow the sale of beer and wine for on-site consumption in conjunction with a *bona fide* eating place. The subject property is zoned C-3; therefore, the application for a CUP is deemed proper and will authorize the applicant to sell and serve beer and wine within the subject restaurant with an approved CUP and a Type 41 license from ABC.

2. **That such use is necessary or desirable for the development of the community and is compatible with the surrounding uses, is in harmony with the general plan, is not detrimental to the surrounding properties, existing uses, or to uses specifically permitted in the zone in which the proposed use is to be located, and will not be detrimental to the public health, safety, or welfare;**

   The proposed use is consistent with the General Commercial (C-3) zone. The new restaurant is a use allowed by right in the C-3 zone per GMC.18.32.020 and with the approval of the CUP would permit the sale of beer and wine on the premises. The project is consistent with the following General Plan Goals and Policies:
   - Economic Development Plan Goal 1: Promote a growing and diverse business community that provides jobs, goods, and services for the local and regional market and maintains a sound tax base for the City.
   - Economic Development Plan Goal 2: Expand, retain and revitalize quality businesses.
   - Economic Development Plan Goal 3: Attract desirable businesses to locate in the City.

   There is no evidence that any detrimental effects such as: noise, litter, or other nuisances would occur. The sale of beer and wine will be in conjunction with the operation of a restaurant. The tenant space is existing, and no additional square footage would be added to the building. With appropriate conditions of approval, the proposed sale of beer and wine and restaurant use will not be detrimental to the health, safety, peace, or general welfare of surrounding residents or business owners. The conditions of approval regulate the use to have minimal impacts.

3. **That the site for the intended use is adequate in size and shape to accommodate such use and all of the yards, setbacks, walls, fences, landscaping, and other features required in order to adjust such use to those existing or permitted future uses on land in the neighborhood;**

   The new restaurant establishment is located in an existing commercial strip within a larger shopping center, the Crenshaw Plaza, which was developed circa 1955. The applicant's request for on-site sale and consumption of beer and wine does not include any type of exterior improvements that will alter the existing building footprint nor the exterior façade. The addition of an alcohol service does not cause a need for site alteration for the existing shopping center thus adequate in size and shape to accommodate the on-site sale and consumption of beer and wine.

4. **That the site for the proposed use relates to streets and highways properly designed and improved so as to carry the type of quantity of traffic generated or to be generated by the proposed use;**

   The project site is located within an existing shopping center, the Crenshaw Plaza, that includes various commercial retail and service businesses. The Crenshaw Plaza has one parking lot area surrounding the shopping plaza that is shared between the businesses. The parking lot is sited south, east, and north of the building. Since this is a new restaurant the proposal to add on-site beer and wine consumption does not change the land-use of Crenshaw Plaza as a shopping center and no additional parking requirements are triggered. Pedestrian access to the subject property is provided by sidewalks along Crenshaw Boulevard. Vehicle access to the subject property is provided by two (2) driveway entrances on Crenshaw Boulevard and one (1) driveway entrance on Wadshan Alley.

   The Circulation Plan, which is part of the Community Development Element of the Gardena General Plan designates Crenshaw Boulevard as an arterial roadway. Arterial roadways are designed to carry larger volumes of traffic and serve as the principal urban thoroughfares connecting activity centers with adjacent communities. 147th Street is designated as a local street and is designed to provide vehicle, pedestrian and bicycle access to individual parcels throughout the City. Local streets are intended to carry low volumes of traffic and allow unrestricted parking. The applicant's request to sell and serve alcohol as part of a restaurant establishment within the commercial shopping center is not expected to attract excess traffic that would ultimately affect the circulation in the area as the alcohol service will be complimentary to the primary restaurant use. In addition, the applicant is not proposing any expansion of the subject property's footprint;

therefore, the site will continue to meet the parking requirements, as previously approved. Staff do not foresee any adverse traffic impacts.

5. **That the conditions stated in the decisions are deemed necessary to protect the public health, safety, and general welfare.**

   The following conditions of approval have been added for Conditional Use Permit #2-25 (Exhibit 1) to ensure that the operations of Vicky's Bubbly Café with the sale of beer and wine will be compatible with and not detrimental to the surrounding uses in the vicinity such as:
   - Operational conditions set forth by the ABC. Any breach of the regulations established by the Department of ABC regarding the sale of alcoholic beverages may lead to the revocation of this conditional use permit.
   - All activities are required to occur within the confines of the enclosed building. Loitering in the vicinity of the tenant suite is strictly prohibited.

SECTION 3. CALIFORNIA ENVIROMENTAL QUALITY ACT (EA #7-25)

The project is exempt from the provisions of the California Environmental Quality Act (CEQA), pursuant to the following exemption:

A. Section 15301 Class 1, Existing Facilities - the building in which the new restaurant establishment will be operating in is existing. Allowing beer and wine sales in conjunction with an allowed-by-right restaurant establishment does not qualify as an expansion of use.

B. The project is not subject to any of the exceptions to the exemptions under Section 15300.2 of the California Environmental Quality Act. The cumulative impact of the incidental sale of alcoholic beverages in a restaurant establishment allowed by-right is not considered significant. The project is not located along any state designated scenic highway nor within any designated hazardous waste site. The building where the sale of alcohol is taking place is not considered a significant historical structure by any governmental body. Staff do not expect any significant impacts or unusual circumstances related to the approval of this project.

C. Staff are hereby directed to file a Notice of Exemption.

SECTION 4. APPEAL

The approvals granted by this Resolution may be appealed within 10 calendar days from adoption of this resolution. All appeals must be in writing and filed with the City Clerk within this time period with the appropriate fee. Failure to file a timely written appeal will constitute a waiver of any right of appeal. The City Council may also call this matter for review within the same time period.

SECTION 5. RECORD

Each and every one of the findings and determinations in this Resolution are based on the competent and substantial evidence, both oral and written, contained in the entire record relating to the Project. All summaries of information in the findings which precede this section are based on the entire record. The absence of any particular fact from any such summary is not an indication that a particular finding is not based in part on that fact.

SECTION 6. CUSTODIAN OF RECORD

The Custodian of Record for the proceedings relating to the Project is Greg Tsujiuchi, Community Development Director, City of Gardena, 1700 West 162nd Street, Gardena, California 90247. Mr. Tsujiuchi's email is gtsujiuchi@cityofgardena.org and his phone number is (310) 217-9530.

SECTION 7. EFFECTIVE DATE

This Resolution shall take effect immediately, subject to Section 4 above.

SECTION 8. CERTIFICATION

The Secretary shall certify the passage of this resolution.

PASSED, APPROVED, AND ADOPTED this 19th day of August 2025.

RONALD WRIGHT-SCHERR, CHAIR
PLANNING AND ENVIRONMENTAL
QUALITY COMMISSION

ATTEST:

GREG TSUJIUCHI, SECRETARY
PLANNING AND ENVIRONMENTAL QUALITY COMMISSION

Attachments:

- Exhibit 1: Conditions of Approval
- Exhibit 2: Project Plans

CERTIFICATION

I, Greg Tsujiuchi, Planning and Environmental Quality Commission Secretary of the City of Gardena, do hereby certify that the foregoing Resolution was duly adopted by the Planning and Environmental Quality Commission of the City of Gardena at a regular meeting thereof, held the 19th day of August, 2025, by the following vote of the Planning and Environmental Quality Commission.

AYES: Kanhan, Wright-Scherr, Langley and Sherman
NOES: None
ABSENT: Henderson

Certification by: _____

GREG TSUJIUCHI, SECRETARY
PLANNING AND ENVIRONMENTAL QUALITY COMMISSION

EXHIBIT A

CITY OF GARDENA

CONDITIONS OF APPROVAL FOR CONDITIONAL USE PERMIT #2-25

GENERAL CONDITIONS

GC 1. The applicant accepts all conditions of approval set forth in this document and shall sign the acknowledgment, prior to building permit and business license issuance.

GC 2. The applicant shall comply with all written policies, resolutions, ordinances, and all applicable laws in effect at the time of approval. The conditions of approval shall supersede all conflicting notations, specifications, and dimensions which may be shown on the project development plans.

GC 3. The floor plan layout shall be in accordance with the plans approved by the Commission and modified by these conditions of approval. The final completed project shall be in substantial compliance with the plans upon which the Commission based its decision, as modified by such decision.

GC 4. The applicant shall reimburse the City for all attorney's fees spent in processing the project application, including a review of all documents required by these conditions of approval prior to the issuance of a final building permit.

GC 5. The applicant shall defend, indemnify, and hold harmless the City, its agents, officers, and employees from any claims, actions or proceedings, damages, costs (including without limitation attorneys' fees), injuries, or liabilities against the City or its agents, officers, or employees arising out of the City's approval of the Notice of Exemption and Conditional Use Permit. The City shall promptly notify the applicant of any claim, action, or proceeding and the City shall cooperate fully in the defense. If the City fails to promptly notify the applicant of any claim, action, or proceeding, or if the City fails to cooperate fully in the defense, the applicant shall not thereafter be responsible to defend, indemnify, or hold harmless the City. Although the applicant is the real party in interest in the action, the City may, at its sole discretion, participate in the defense of any action with the attorneys of its own choosing, but such participation shall not relieve the applicant of any obligation under this condition, including the payment of attorneys' fees.

GC 6. The costs and expenses of any enforcement activities, including, but not limited to attorney's fees, caused by the applicant's violation of any condition imposed by this approval or any provision of the GMC shall be paid by the applicant.

CONDITIONAL USE PERMIT #2-25

CUP1. Conditional Use Permit #2-25 shall be utilized within a period not to exceed twelve (12) months from the date of approval unless an extension is granted in accordance with Section 18.46.040 of the GMC. Utilization shall mean the issuance of an Alcoholic Beverage License by the ABC.

PLANNING

PL1. The applicant is permitted to sell and serve beer and wine as part of its restaurant operations with the condition that it will obtain a ABC License Type 41 for on-site consumption as part of a meal service. Should the applicant cease to operate as a restaurant with ancillary sale and service of beer and wine, or should the applicant cease to hold a valid Type 41 license, the CUP shall be revoked.

PL2. The applicant shall provide a copy of this conditional use permit to the local office of the ABC and obtain the appropriate license referenced in this permit.

PL3. The applicant shall comply with all operating conditions of the ABC. Any violation of the regulations of the ABC, as they pertain to the sale of alcoholic beverages, may result in the revocation of this conditional use permit.

PL4. The service of alcohol shall be permitted during the hours the restaurant is also serving food and shall not extend beyond the dining hours for the establishment.

PL5. Alcohol sales shall not exceed forty percent of total gross revenue per year. The business shall maintain records of gross revenue sources which shall be available for inspection by City staff or the ABC.

PL6. The applicant shall ensure all alcohol consumption is confined within the business building area. Alcohol consumption outside the building area is prohibited. The applicant shall post a sign at the exit(s) of the restaurant notifying business patrons that the consumption of alcoholic beverages outside is prohibited.

PL7. The applicant shall not display advertising or signage that promotes the sale of alcohol at the site.

PL8. If the business operation results in excessive issues or complaints at any time, the Director of Community Development shall initiate a review of the CUP by

the Planning and Environmental Quality Commission. The Commission shall determine if additional restrictions, conditions, or physical changes are needed in order to address the issues or concerns.

PL9. Per GMC 18.46.080, if the sale of beer and wine is discontinued for a period of one hundred eighty (180) days, the permit shall be deemed to have lapsed and shall be null and void.

PL10. The Conditional Use Permit may be revoked, amended, and suspended by the Planning and Environmental Quality Commission under the provisions of Section 18.46.050 of the GMC.

PL11. The hours of operation shall be from 10:00 AM to 11:00 PM.

PL12. No special events shall be held at the project site without the Applicant obtaining a temporary event permit from the City and pay all appropriate fees. Temporary events are those that meet the intent and purpose of GMC Section 18.60.010.

PL13. All activities must take place within the enclosed building. Loitering outside the tenant suite is prohibited.

PL14. The Applicant shall comply with all provisions outlined in the City's Noise Ordinance as specified in GMC 8.36.

BUILDING

BS1. The project shall comply with all applicable portions of the City adopted version of the California Building Code (Title 24, California Code of Regulations).

BS2. The applicant shall comply with all conditions set forth by other departments and agencies including but not limited to the ABC, Los Angeles County Health Department, Los Angeles County Fire Department, Planning, and Public Works.

BS3. The applicant shall comply with both State and City recycling programs. The applicant shall indicate where the recycling waste bin is located as well as the storage of empty kegs if used. Compliance forms must be filled out prior to final approval.

BS4. The applicant shall provide adequate supervision of individuals or minors under the legal drinking age who are partaking in the storage and sale of alcohol.

Vicky's Bubbly Cafe certifies that he/she/it has read, understood, and agrees to the Project Conditions listed herein.

Vicky's Bubbly Cafe, Representative

_____ _____

By Date

VICKY'S BUBBLY CAFE

PERMIT #

14782 CRENSHAW BLVD. GARDENA, CA 90250

ABBREVIATIONS

ABV	ABOVE	MFR	MANUFACTURER
AFF	ABOVE FINISHED FLOOR	MAS	MASONRY
AP	ACCESS PANEL	MO	MASONRY OPENING
ACT	ACOUSTICAL CEILING TILE	MAX	MAXIMUM
		MECH	MECHANICAL
ADJ	ADJACENT	MTL	METAL
ACCO	ACCOMODATE	MIN	MINIMUM
AIC	AIR CONDITIONING	MIR	MIRROR
ALT	ALTERNATE	MISC	MISCELLANEOUS
AB	ANCHOR BOLT	MLD	MOLDING, MOULDING
ARCH	ARCHITECT	MT	MOUNTED
ASPH	ASPHALT	MOW	MOVABLE
B	BAR	NOM	NOMINAL
BPL	BEARING PLATE	N	NORTH
BM	BENCH MARK	NIC	NOT IN CONTRACT
BES	BELOW	NTS	NOT TO SCALE
BWD	BEVELED WOOD	OC	ON CENTER
BD	BOARD	OPNG	OPENING
BLDG	BUILDING	OH	OPEN HOME JOIST
BLDG	BUILDING	OPH	OPPOSITE HAND
C	CAMPS	OD	OUTSIDE DIAMETER
CAB	CABINET	OHD	OVERHEAD
CAPS	CAPITOL	OPER	OPERATOR
CLG	CEILING	P	PAINTED
CLR	CLEAR HEIGHT	PNL	PANEL
CPC	CAST IN PLACE CONC.	PRESS	PRESSURE TREATED
CJ	CONTROL JOINT		WOOD
CT	CERAMIC TILE	PTD	PAPER TOWEL
CLR	CLEAR (WALL)		DISPENSER
CLR	CLOSURE	PARKS	PARKING
COLUMN	COLUMN	PR	PARKING
CWS	COLD WATER SUPPLY	PAVMNT	PAVEMENT
CONC	CONCRETE	PERIM	PERIMETER
CMU	CONCRETE MASONRY	PLAST	PLASTER
	UNIT	PL or PLAM	PLASTIC LAMINATE
CONST	CONSTRUCTION	PL	PLATE
CONT	CONTINUOUS	PG	PLATE GLASS
CONTR	CONTRACTOR	PWD	PLYWOOD
CG	CORNER GUARD	PT	POINT
CORR	CORRUGATED	PVC	POLYVINYL CHLORIDE
CTR	COUNTER	PVD	POWER, VOICE & DATA
			PROPERTY LINE
(E)(N)	DEMOLISH		
DEP	DEPRESSED	QT	QUARRY TILE
DTL	DETAIL		
DIAG	DIAGONAL	RAD	RADIUS
DIAM	DIAMETER	RL	RAILING
DIM	DIMENSION	REF	REFERENCE
DR	DOOR	REFLECT	REFLECTED CEILING PLAN
DS	DOWNSPOUT	REFRIG	REFRIGERATOR
DWG	DRAWING	REV	REVISION
E	EAST	RCP	REFLECTED CEILING PLAN
EXP	EXPANSION BOLT	ROW	RIGHT OF WAY
ELEC	ELECTRICAL	RHT	RIGHT HAND
ELV	ELEVATOR	RGR	RIDGE
EL	ELEVATION	RH	ROOF HATCH
ELEV	ELEVATOR	RO	ROOFING
EMER	EMERGENCY	RM	ROOM
ENC	ENCLOSE (SURE)	RO	ROUGH OPENING
EQ	EQUAL		
EQUIP	EQUIPMENT	SFTGL	SAFETY GLASS
EX	EXISTING	SCH	SCHEDULE
EXC	EXCAVATE	SCR	SCREEN
EXP	EXPOSED	SEALANT	SEALANT
EXT	EXTERIOR	STG	SEATING
FOC	FACE OF CONCRETE	SECT	SECTION
FOF	FACE OF FINISH	SHLF	SHELF
FOM	FACE OF MASONRY	SIM	SIMILAR
FOS	FACE OF STUDS	SL	SLEEVE
FIN	FINISH (ED)	SD	SOLID CORE
FFEL	FINISHED FL ELEVATION	S	SOUTH
FFL	FINISHED FLOOR LINE	SPEC	SPECIFICATION
FA	FIRE ALARM	SPR	SPRINKLER
FE	FIRE EXTINGUISHER	SQ	SQUARE
FEC	FIRE EXTINGUISHER CAB	SS	STONE SURFACE
FHC	FIRE HOSE CABINET	STD	STANDARD (ESTEEL)
FBT	FIRE RESISTANT	STD	STANDARD
FP	FINISH FLOOR	STEEL	STEEL
FLR	FLOOR (ING)	STOR	STORAGE
FPL	FLOOR PLATE	STR	STRUCTURAL
FLUOR	FLUORESCENT	SUSPENDED	SUSPENDED
FTG	FOOTING	TBD	TBD
FND	FOUNDATION	TEL	TELEPHONE
FR	FRAME (D), (ING)	TV	TELEVISION
FUR	FURRED (ING)	THK	THICKNESS
FUT	FUTURE	THR SHLD	THRESHOLD
FLSHG	FLASHING	TPTN	TOILET PARTITION
GAR	GARAGE DOORS	TPD	TOILET PAPER DISPENSER
GALV	GALVANIZED	TOWEL BAR	TOWEL BAR
GL	GLAZING	TREAD	TREAD
GL	GLASS	TYPICAL	TYPICAL
GB	GRAB BAR		
GRD	GRADE, GRADING	UNDERCUT	UNDERCUT
GRAV	GRAVEL	UNO	UNLESS NOTED OTHERWISE
GSM	GROSS SQUARE FEET	UNF	UNFINISHED
GT	GROUT	UNO	UNLESS NOTED OTHERWISE
HDR	HEADER	UON	UNLESS OTHERWISE NOTED
HVAC	HEATING VENTILATING & A.C.	UR	URINAL
HT	HEIGHT		
HM	HOLLOW METAL		
HOR	HORIZONTAL	VB	VAPOR BARRIER
HWH	HOT WATER HEATER	VERT	VERTICAL
IN	INCHES	W	WEST
INCL	INCLUDE (D), (ING)	WC	WATER CLOSET
ID	INSIDE DIAMETER	WC	WALL COVERING
INSUL	INSULATION	WOOD	WOOD
INT	INTERIOR	WG	WIRED GLASS
INTM	INTERMEDIATE	WH	WALL HUNG
JAN	JANITOR'S CLOSET	WH	WATER HEATER
JC	JANITOR'S CLOSET	WIN	WINDOW
JT	JOINT	WO	WITHOUT
KPL	KICKPLATE	WP	WATERPROOFING
KD	KNOCKDOWN FRAME	WR	WATER RESISTANT
LKG	LEDGE R	WRKOUT	WRKOUT
LB	LAG BOLT	WW	WOOD WINDOW
LAM	LAMINATE (D)	WWM	WELDED WIRE MESH
LAV	LAVATORY		
LH	LEFT HAND		
LT	LIGHT		
LVR	LOUVER		

GENERAL DRAFTING SYMBOL LEGEND

REVISION BUBBLE (WITH DELTA)

NORTH ARROW

BUILDING ELEVATION

BUILDING SECTION

1/2" = 1'0" HORIZ SCALE

1/2" = 1'0" VERT SCALE

1/2" = 1'0" 1/2" = 1'0" 1/2" = 1'0"

2022 CALIFORNIA GREEN BUILDING STANDARDS CODE
NONRESIDENTIAL MANDATORY MEASURES, SHEET 1 (January 2023)

CHAPTER 3
GREEN BUILDING
SECTION 301 GENERAL

301.1 SCOPE. Buildings shall be designed to include the green building measures specified as mandatory in the application checklists contained in this code. Voluntary green building measures are also included in the application checklists and may be included in the design and construction of structures covered by this code, but are not required unless adopted by a city, county, or city and county as specified in Section 101.7.

301.3 NONRESIDENTIAL ADDITIONS AND ALTERATIONS. [BSC-CG] The provisions of individual sections of Chapter 3 apply to newly constructed buildings, building additions of 1,000 square feet or greater, and/or building alterations with a permit valuation of $200,000 or above (for occupancies within the authority of California Building Standards Commission). Code sections relevant to additions and alterations shall only apply to the portions of the building being added or altered within the scope of the permitted work.

A code section will be designated by a banner to indicate where the code section only applies to newly constructed buildings (N) or to additions and/or alterations (A). When the code section applies to both, no banner will be used.

301.3.1 Nonresidential additions and alterations that cause updates to plumbing fixtures only.

Note: On and after January 1, 2014, certain commercial real property, as defined in Civil Code Section 1101.3, shall have its noncompliant plumbing fixtures replaced with appropriate water-conserving plumbing fixtures under specific circumstances. See Civil Code Section 1101.1 et seq. for definitions, types of commercial real property affected, effective dates, circumstances necessitating replacement of noncompliant plumbing fixtures, and duties and responsibilities for ensuring compliance.

301.3.2 Waste Diversion. The requirements of Section 5.408 shall be required for additions and alterations whenever a permit is required for work.

301.4 PUBLIC SCHOOLS AND COMMUNITY COLLEGES. (see GBSC)
301.5 HEALTH FACILITIES. (see GBSC)

SECTION 302 MIXED OCCUPANCY BUILDINGS

302.1 MIXED OCCUPANCY BUILDINGS. In mixed occupancy buildings, each portion of a building shall comply with the specific green building measures applicable to each specific occupancy.

SECTION 303 PHASED PROJECTS

303.1 PHASED PROJECTS. For small buildings and others constructed for future tenant improvements only those code measures relevant to the building components and systems considered to be new construction (or newly constructed) shall apply.

303.1.1 Initial Tenant Improvements. The provisions of this code shall apply only to the initial tenant improvements to a project. Subsequent tenant improvements shall comply with the scoping provisions in Section 301.3 non-residential additions and alterations.

ABBREVIATION DEFINITIONS:

HCD	Department of Housing and Community Development
BSC	California Building Standards Commission
DSA-SS	Division of the State Architect, Structural Safety
OSHPD	Office of Statewide Health Planning and Development
LR	Low Rise
HR	High Rise
A/A	Additions and Alterations
N	New

CHAPTER 5
NONRESIDENTIAL MANDATORY MEASURES

DIVISION 5.1 PLANNING AND DESIGN

SECTION 5.101 GENERAL
5.101.1 SCOPE
The provisions of this chapter outline planning, design and development methods that include environmentally responsible site selection, building siting and development to protect, restore and enhance the environmental quality of the site and respect the integrity of adjacent properties.

SECTION 5.102 DEFINITIONS
5.102.1 DEFINITIONS
The following terms are defined in Chapter 2 (and are included here for reference)

CUTOFF LUMINAIRES Luminaires whose light distribution is such that the candela per 1000 lamp lumens does not numerically exceed 25 (2.5 percent) at an angle of 90 degrees above nadir, and 100 (10 percent) at a vertical angle of 80 degrees above nadir. This applies to all lateral angles around the luminaire.

LOW-EMITTING AND FUEL EFFICIENT VEHICLES
Eligible vehicles are limited to the following:

1. Zero emission vehicle (ZEV), enhanced advanced technology PZEV (enhanced AT ZEV) or transitional zero emission vehicles (TZEV) designated under CCR, Title 13, Section 1962.
2. High efficiency vehicles, regulated by U.S. EPA, bearing a fuel economy and greenhouse gas rating of 9 or 10 as regulated under 40 CFR Section 600 Subpart D.

NEIGHBORHOOD ELECTRIC VEHICLE (NEV). A motor vehicle that meets the definition of "low speed vehicle" either in Section 385.5 of the Vehicle Code or in 49 CFR571.500 (at it existed on July 1, 2000), and is certified to zero emission vehicle standards.

TENANT-OCCUPANTS. Building occupants who inhabit a building during its normal hours of operation as permanent occupants, such as employees, as distinguished from customers and other frequent visitors.

YARDOOL VEHICLE. Eligible vehicles are limited to any motor vehicle, other than a motortruck or truck tractor, designed for carrying more than 10 but not more than 15 persons including the driver, which is maintained and used primarily for the nonprofit work related transportation of adults for the purpose of ridesharing.

Note: Source: Vehicle Code, Division 5, Section 668

ZEV Any vehicle certified to zero emission standards

SECTION 5.106 SITE DEVELOPMENT
5.106.1 STORM WATER POLLUTION PREVENTION FOR PROJECTS THAT DISTURB LESS THAN ONE ACRE OF LAND. Newly constructed projects and additions which disturb less than one acre of land, and are not part of a larger common plan of development or sale, shall prevent the pollution of storm water runoff from the construction activities through one or more of the following measures:

5.106.1.1 Local ordinance. Comply with a lawfully enacted storm water management and/or erosion control ordinance.

5.106.1.2 Best Management Practices (BMPs). Prevent the loss of soil through wind or water erosion by implementing an effective combination of erosion and sediment control and good housekeeping BMPs.

1. Soil loss BMPs shall should be considered for implementation as appropriate for each project but are not limited to, the following:
   a. Scheduling construction activity during dry weather, when possible
   b. Preservation of natural features, vegetation, and soil, and buffers around surface waters
   c. Drainage swales or lined ditches to control storm water flow
   d. Mulching or hydroseeding to stabilize disturbed soils
   e. Erosion control to protect slopes
   f. Protection of storm drain inlets (gravel bags or catch basin inserts)
   g. Perimeter sediment control (perimeter silt fence, fiber rolls)
   h. Sediment trap or sediment basin to retain sediment on site
   i. Stabilized construction exits
   j. Wind erosion control
   k. Other soil loss BMPs acceptable to the enforcing agency
2. Good housekeeping BMPs to manage construction equipment, materials, non-storm water discharges and wastes that should be considered for implementation as appropriate for each project are not limited to, the following:
   a. Dewatering activities
   b. Material handling and waste management
   c. Building materials stockpile management
   d. Management of washout areas (concrete, paints, stucco, etc.)
   e. Control of vehicle/equipment fueling to contractor's staging area
   f. Vehicle and equipment cleaning performed off site
   g. Spill prevention and control
   h. Other housekeeping BMPs acceptable to the enforcing agency

5.106.2 STORMWATER POLLUTION PREVENTION FOR PROJECTS THAT DISTURB ONE OR MORE ACRES OF LAND. Comply with all lawfully enacted stormwater discharge regulations for projects that (1) disturb one acre or more of land, or (2) disturb less than one acre of land but are part of a larger common plan of development sale.

Note: Projects that (1) disturb one acre or more of land, or (2) disturb less than one acre of land but are part of the larger common plan of development or sale must comply with the post-construction requirements detailed in the applicable National Pollutant Discharge Elimination System (NPDES) General permit for Stormwater Discharges Associated with Construction and Land Disturbance Activities issued by the State Water Resources Control Board or the Lahontan Regional Water Quality Control Board (for projects in the Lake Tahoe Hydrologic Unit).

The NPDES permits require post-construction runoff (post project hydrology) to match the preconstruction runoff (pre project hydrology) with the installation of post-construction stormwater management measures. The NPDES permits emphasize runoff reduction through on site stormwater use, interception, evapotranspiration, and infiltration through nonstructural controls, such as Low Impact Development (LID) practices, and conservation design measures. Stormwater volume that cannot be addressed using nonstructural practices is required to be captured in structural practices and be approved by the enforcing agency.

Refer to the current applicable permits on the State Water Resources Control Board website at www.waterboards.ca.gov/constructionstormwater. Consideration to the stormwater runoff management measures should be given during the initial design process for appropriate integration into site development.

5.106.4 BICYCLE PARKING. For buildings within the authority of California Building Standards Commission as specified in Section 301, comply with Section 5.106.4.1. For buildings within the authority of the Division of the State Architect pursuant to Section 105, comply with Section 5.106.4.2.

5.106.4.1 Bicycle parking. [BSC-CG]. Comply with Sections 5.106.4.1.1 and 5.106.4.1.2 or meet the applicable local ordinance, whichever is stricter.

5.106.4.1.1 Short-term bicycle parking. If the new project or an addition or alteration is anticipated to generate visitor traffic, provide permanently anchored bicycle racks within 200 feet of the visitors entrance, readily visible to passers-by, for 5% of new visitor motorized vehicle parking spaces being added, with a minimum of one two bike capacity rack.
Exception: Additions or alterations which add nine or less motor vehicular parking spaces.

5.106.4.1.2 Long-term bicycle parking. For new buildings with tenant spaces that have 10 or more tenant occupants, provide secure bicycle parking for 5 percent of the tenant occupant vehicular parking spaces with a minimum of one bicycle parking facility.

5.106.4.1.3 For additions or alterations that add 10 or more tenant occupant vehicular parking spaces, provide secure bicycle parking for 5 percent of the tenant vehicular parking spaces being added, with a minimum of one bicycle parking facility.

5.106.4.1.4 For new shell buildings in phased projects provide secure bicycle parking for 5 percent of the anticipated tenant occupant vehicular parking spaces with a minimum of one bicycle parking facility.

5.106.4.1.5 Acceptable bicycle parking facility for Sections 5.106.4.1.2, 5.106.4.1.3, and 5.106.4.1.4 shall be convenient from the street and shall meet one of the following:

1. Covered, lockable enclosures with permanently anchored racks for bicycles;
2. Lockable bicycle rooms with permanently anchored racks; or
3. Lockable, permanently anchored bicycle lockers.

Note: Additional information on recommended bicycle accommodations may be obtained from Sacramento Area Bicycle Advisory.

5.106.4.2 Bicycle parking. (DSA-SS). For public schools and community colleges, comply with Sections 5.106.4.2.1 and 5.106.4.2.2.

5.106.4.2.1 Student bicycle parking. Provide permanently anchored bicycle racks conveniently accessed with a minimum of four two bike capacity racks per new building.

5.106.4.2.2 Staff bicycle parking. Provide permanent, secure bicycle parking conveniently accessed with a minimum of two shelf bicycle parking spaces per new building. Acceptable bicycle parking facilities shall be convenient from the street or staff parking area and shall meet one of the following:

1. Covered, lockable enclosures with permanently anchored racks for bicycles;
2. Lockable bicycle rooms with permanently anchored racks; or
3. Lockable, permanently anchored bicycle lockers.

5.106.5.3 Electric vehicle (EV) charging. [N]. Construction to provide electric vehicle infrastructure and facilitate electric vehicle charging shall comply with Section 5.106.5.3.1 and shall be provided in accordance with regulations in the California Building Code and the California Electrical Code.

Exceptions:
1. On a case-by-case basis where the local enforcing agency has determined compliance with the section is not feasible based upon one of the following conditions:
   a. Where there is no local utility power supply
   b. Where the local utility is unable to supply adequate power
   c. Where there is evidence suitable to the local enforcement agency substantiating the local utility infrastructure design requirements, directly related to the implementation of Section 5.106.5.3, may adversely impact the construction cost of the project.
2. Parking spaces accessible only by automated mechanical car parking systems are not required to comply with this code section.

5.106.5.3.1 EV capable spaces.
[N] EV capable spaces shall be provided in accordance with Table 5.106.5.3.1 and the following requirements:

1. Receptacles complying with the California Electrical Code and no less than 1 inch (25 mm) diameter shall be provided from panel board originated at a service panel or a subpanel(s) serving the area, and shall terminate in close proximity to the proposed location of the EV capable area into a suitable listed cabinet, box enclosure or equivalent. A common raceway may be used to serve multiple EV charging spaces.
2. A service panel or subpanel (s) shall be provided with panel space and electrical load capacity for a dedicated 208/240 volt, 40 ampere minimum branch circuit for each EV capable space, with delivery of 30 ampere minimum to an installed EVSE at each EVCS.
3. The electrical system and any on site distribution transformers shall have sufficient capacity to supply full rated amperage of each EV capable space.
4. The service panel or subpanel circuit directory shall identify the reserved overcurrent protective devices spaces(s) as "EV CAPABLE." The raceway termination location shall be permanently and visibly marked as "EV CAPABLE."

Note: A parking space served by electric vehicle supply equipment or designed as a future EV charging space shall count as at least one standard automobile parking space only for the purpose of complying with any applicable minimum parking space requirements established by an enforcement agency. See vehicle Code Section 22511.2 for further details.

TABLE 5.106.5.3.1

TOTAL NUMBER OF ACTUAL PARKING SPACES	NUMBER OF REQUIRED EV CAPABLE SPACES	NUMBER OF REQUIRED EV CAPABLE SPACES PROVIDED WHEN ADDITIONAL PARKING IS PROVIDED
0-9	0	0
10-25	2	0
26-50	4	2
51-75	6	3
76-100	17	4
101-150	25	6
151-200	35	9
201 AND OVER	20% of total	25% of EV capable spaces

1. Where there is multiform electrical supply.
2. The number of required EVCS (EV capable spaces provided with EVSE) in column 3 count towards the total number of required EV capable spaces shown in column 2.

5.106.5.3.2 Electric vehicle charging stations (EVCS)
EV capable spaces shall be provided with EVSE to create EVCS in the number indicated in Table 5.106.5.3.1. The EVCS required by Table 5.106.5.3.1 may be provided with EVSE. If any combination of Level 2 and Direct Current Fast Charging (DCFC), except that at least one Level 2 EVSE shall be provided.

One EV charger with multiple connectors capable of charging multiple EVs simultaneously shall be permitted if the electrical load capacity required by Section 5.106.5.3.1 for each EV capable space is assimulaneously supplied to the EV charger.

The installation of each DCFC EVSE shall be permitted to reduce the minimum number of required EV capable spaces without EVSE by five and reduce proportionally the required electrical load capacity to the service panel or subpanel.

5.106.5.3.3 Use of automatic load management systems (ALMS).
ALMS shall be permitted for EVCS. When ALMS is installed, the required electrical load capacity specified in Section
5.106.5.3.1 for each EVCS may be reduced when serviced by an EVSE controlled by an ALMS. Each EVSE controlled by an ALMS shall deliver a minimum 30 amperes to an EV when charging one vehicle and shall deliver a minimum 3.3 kW while simultaneously charging multiple EVs.

5.106.5.3.4 Accessible EVCS.
When EVSE is installed, accessible EVSE shall be provided in accordance with the California Building Code, Chapter 11B, Section 11B-228.3.
Note: For EVCS signs, refer to California Traffic Operations Policy Directive 13-01 (Zero Emission Vehicle Signs and Pavement Markings) or its successor(s).

5.106.5.4 Electric Vehicle (EV) charging: medium-duty and heavy-duty. [N]
Construction shall comply with section 5.106.5.4.1 to facilitate future installation of electric vehicle supply equipment (EVSE). Construction for warehouses, grocery stores and retail stores with planned off street loading spaces shall also comply with Section 5.106.5.4.1 for future installation of medium- and heavy-duty EVSE.
Exceptions:
1. On a case-by-case basis where the local enforcing agency has determined compliance with this section is not feasible based upon one of the following conditions:
   a. Where there is no local utility power supply.
   b. Where the local utility is unable to supply adequate power.
   c. Where there is evidence suitable to the local enforcing agency substantiating that additional local utility infrastructure design requirements, directly related to the implementation of Section 5.106.5.3, may adversely impact the construction cost of the project.

When EVSE(s) is/are installed, it shall be in accordance with the California Building Code, the California Electrical Code and as follows:

5.106.5.4.1 Electric vehicle charging readiness requirements for warehouse, grocery stores and retail stores with planned off-street loading spaces.
[N] In order to avoid future demolition when adding EV charging supply and distribution equipment, spare raceway(s) or busway(s) and adequate capacity for transformer(s), service panel(s) or subpanel(s) shall be installed at the time of construction in accordance with the California Electrical Code. Construction plans and specifications shall include but are not limited to, the following:

1. The transformer, main service equipment and subpanel shall meet the minimum power requirement in Table 5.106.5.4.1 to accommodate the dedicated branch circuits for the future installation of EVSE.
2. The construction documents shall indicate on or more location(s) convenient to the planned offstreet loading space(s) reserved for medium and heavy duty ZEV charging cabinets and charging dispensers, and a pathway reserved for routing of conduit from the termination of the raceway(s) or busway(s) to the charging cabinet(s) and dispenser(s) as shown in Table 5.106.5.4.1.
3. Raceway(s) or busway(s) originating at a main service panel or a subpanel(s) serving the area where potential future medium and heavy duty EVSE will be located and shall terminate in close proximity to the potential future location of the charging equipment for medium- and heavy-duty vehicles.
4. The raceway(s) or busway(s) shall be sufficient size to carry the minimum additional system load to the future location of the charging for medium- and heavy duty ZEVs as shown in Table 5.106.5.4.1.

TABLE 5.106.5.4.1 RACEWAY CONDUIT AND PANEL POWER REQUIREMENTS FOR MEDIUM- AND HEAVY-DUTY EVSE [N]

BUILDING TYPE	[illegible]	NUMBER OF OFF-STREET LOADING SPACES	[illegible]
Grocery	50,000 to 90,000	1 or 2	200
	Greater than 90,000	3 or Greater	400
Retail	50,000 to 125,000	1 or 2	200
		3 or Greater	400
	Greater than 125,000	1 or Greater	400
Warehouse	50,000 to 216,000	1 or 2	200
		3 or Greater	400
	Greater than 216,000	1 or Greater	400

5.106.8 LIGHT POLLUTION REDUCTION. (N). Outdoor lighting systems shall be designed and installed to comply with the following:

1. The minimum requirements in the California Energy Code for Lighting Zones 0-4 as defined in Chapter 10, Section 10.114 of the California Administrative Code, and
2. Backlight (B) ratings as defined in IES TM-15-11 (shown in Table A-1 in Chapter 8)
3. Uplight and Glare ratings as defined in California Energy Code (shown in Tables 130.2-A and 130.2-B in Chapter 8) and
4. Allowable (BUG) ratings not exceeding those shown in Table 5.106.8. (N) or Comply with a local ordinance lawfully enacted pursuant to Section 101.7, whichever is more stringent.

Exceptions: [N]

1. Luminaires that qualify as exceptions in Sections 130.2 (B) and 140.7 of the California Energy Code
2. Emergency lighting
3. Building facade meeting the requirements in Table 140.7-B of the California Energy Code, Part 6
4. Custom lighting features as allowed by the local enforcing agency, as permitted by Section 101 & Alternate materials, designs and methods of construction
5. Luminaires with less than 6,200 initial lumens lumens

TABLE 5.106.8 [N] MAXIMUM ALLOWABLE BACKLIGHT, UPLIGHT AND GLARE (BUG) RATINGS

ALLOWABLE RATING	LIGHTING ZONE 0	LIGHTING ZONE 1	LIGHTING ZONE 2	LIGHTING ZONE 3	LIGHTING ZONE 4
MAXIMUM ALLOWABLE BACKLIGHT RATING					
Luminaires greater than 2 mounting heights (MH) from property line	N/A	No limit	No limit	No limit	No limit
Luminaires 1 but less than 2 MH from property line	N/A	B2	B2	B4	B4
Luminaires 0.5 but less than 1 MH from property line	N/A	B1	B2	B3	B3
Luminaires 0.5 but less than 0.5 MH from property line	N/A	B0	B0	B1	B2
MAXIMUM ALLOWABLE UPLIGHT RATING (U)					
For area lighting	N/A	U0	U0	U0	U0
For all other outdoor lighting not covered by exceptions	N/A	U1	U2	U3	U4
MAXIMUM ALLOWABLE GLARE RATING (G)					
MAXIMUM ALLOWABLE GLARE RATING (G)	N/A	G1	G2	G3	G4
MAXIMUM ALLOWABLE GLARE RATING (G)	N/A	G2	G3	G4	G4
MAXIMUM ALLOWABLE GLARE RATING (G)	N/A	G2	G3	G4	G4
MAXIMUM ALLOWABLE GLARE RATING (G)	N/A	G1	G2	G3	G4

1. Zone 0 lighting (Zone 0 and 1) are not adopted, refer to lighting zones as defined in the California Energy Code and Chapter 10 of the California Administrative Code.

2. For property line that is 2 U.S. feet and more (illegible) Values and lighting zone the property line shall be considered to be 5 feet beyond the actual property line for purpose of determining compliance with this section. For property line that is 2 U.S. feet and more (illegible) the property line may be considered to be the centerline of the public roadway or public street beside for the purpose of determining compliance with this section.

3. General lighting luminaires in areas such as outdoor parking, sales or storage lots that meet these reduced ratings. Decorative luminaires located in these areas that meet BUG ratings may be "other outdoor lighting".

5.106.8.1 Facing Backlight
Luminaires within 2MH of a property line shall be oriented so that the nearest property line is behind the fixture, and shall comply with the backlight rating specified in Table 5.106.8 based on the lighting zone and distance to the nearest point of that property line.
Exception: Corners: If two property lines (or two segments of the same property line) have equidistant point to the luminaire, then the luminaire may be oriented so that the intersection of the two lines (the corner) is directly behind the luminaire. The luminaire shall still use the distance to the nearest point(s) on the property lines to determine the required backlight rating.

5.106.8.2 Facing Glare.
For luminaires covered by 5.106.8.1, if a property line also exists within or extends into the front hemisphere within 2MH of the luminaire then the luminaire shall comply with the more stringent glare rating specified in Table 5.106.8 based on the lighting zone and distance to the nearest point on the nearest property line within the front hemisphere.

Note: (N)
1. See also California Building Code, Chapter 12, Section 1205.6 for college campus lighting requirements for parking facilities and walkways.
2. Refer to Chapter 8 (Compliance Forms, Worksheets and Reference Material) for IES TM-15-11 Table
   A 1. California Energy Code Tables 130.2-A and 130.2-B
   B 1. Refer to the California Building Code for requirements for additions and alterations.

5.106.10 GRADING AND PAVING. Construction plans shall indicate how site grading or a drainage system will manage all surface water flows to keep water from entering buildings. Examples of methods to manage surface water include, but are not limited to, the following:

1. Swales
2. Water collection and disposal systems
3. French drains
4. Water retention gardens
5. Other water measures which keep surface water away from buildings and aid in groundwater recharge.

Exception: Additions and alterations not altering the drainage path.

5.106.12 SHADE TREES [DSA-SS]. Shade Trees shall be planted to comply with Sections 5.106.12.1, 5.106.12.2, and 5.106.12.3. Percentages shown shall be measured at noon on the summer solstice. Landscape irrigation necessary to establish and maintain tree health shall comply with Section 5.304.6.

5.106.12.1 Surface parking areas. Shade tree plantings, minimum #10 container size or equal, shall be installed to provide shade over 50 percent of the parking area within 15 years.

Exceptions: Surface parking area covered by solar photovoltaic shade structures with roofing materials that comply with Table A5.106.11.2.2 in Appendix A5 shall be permitted in whole or in part in lieu of shade tree planting.

5.106.12.2 Landscape areas. Shade trees plantings, minimum #10 container size or equal shall be installed to provide shade of 20% of the landscape area within 15 years

Exceptions: Playfields for organized sport activity are not included in the total area calculation.

5.106.12.3 Hardscape areas. Shade tree plantings, minimum #10 container size or equal shall be installed to provide shade over 20 percent of the hardscape area within 15 years

Exceptions:
1. Walks, he Decorative areas covered by solar photovoltaic shade structures or shade structures with roofing materials that comply with Table A5.106.11.2.2 in Appendix A5 shall be permitted in whole or in part in lieu of shade tree planting.
2. Designated and marked play areas of organized sport activity are not included in the total area calculation.

DIVISION 5.2 ENERGY EFFICIENCY

SECTION 5.201 GENERAL
5.201.1 Scope [BSC-CG]. California Energy Code [DSA-SS]. For the purposes of mandatory energy efficiency standards in this code, all references to the California Energy Commission will continue to adopt mandatory building standards.

DIVISION 5.3 WATER EFFICIENCY AND CONSERVATION

SECTION 5.301 GENERAL
5.301.1 Scope. The provisions of this chapter shall establish the means of conserving water use indoors, outdoors and in wastewater conveyance.

SECTION 5.302 DEFINITIONS
5.302.1 Definitions. The following terms are defined in Chapter 2 (and are included here for reference)

EVAPOTRANSPIRATION ADJUSTMENT FACTOR (ETAF) [DSA-SS]. An adjustment factor when applied to reference evapotranspiration that adjusts for plant factors and irrigation efficiency, which are two major influences on the amount of water that needs to be applied to the landscape.

FOOTPRINT AREA [DSA-SS]. The total area of the furthest exterior wall of the structure projected to natural grade, not including exterior areas such as stairs, covered walkways, patios and decks.

METERING FAUCET. A self closing faucet that dispenses a specific volume of water for each actuation cycle. The volume or cycle duration can be fixed or adjustable.

GRAYWATER. Pursuant to Health and Safety Code Section 17922.12, "graywater" means untreated wastewater that has not been contaminated by any toilet discharge, has not been affected by infectious, contaminated, or unhealthy bodily wastes, and does not present a threat from contamination by unhealthful processing, manufacturing, or operating wastes. "Graywater" includes, but is not limited to wastewater from bathtubs, showers, bathroom washbasins, clothes washing machines and laundry tubs, but does not include waste water from kitchen sinks or dishwashers.

MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO). The California ordinance regulating landscape design, installation and maintenance practices that will ensure commercial, multifamily and other developer installed landscapes greater than 2500 square feet meet an irrigation water budget developed based on landscaped area and climatological parameters.

MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO) [HCD]. The California model ordinance (California Code of Regulations, Title 23, Division 2, Chapter 2.7), regulating landscape design, installation and maintenance practices. Local agencies are required to adopt the updated MWELO, or adopt a local ordinance at least as effective as the MWELO.

POTABLE WATER. Water that is drinkable and meets the U.S. Environmental Protection Agency (EPA) Drinking Water Standards. See definition in the California Plumbing Code, Part 5

POTABLE WATER [HCD] Water that is satisfactory for drinking, culinary, and domestic purposes, and meets the U.S. Environmental Protection Agency (EPA) Drinking Water Standards and the requirements of the Health Authority having Jurisdiction

RECYCLED WATER. Water which, as a result of treatment of waste, is suitable for a direct beneficial use or a controlled use that would not otherwise occur (Water Code Section 13050 (n)). Simply put, recycled water is water treated to remove waste matter attaining a quality that is suitable to use the water again.

SUBMETER [HCD 1] A secondary device beyond a meter that measures water consumption of an individual rental unit within a multiunit residential structure or mixed use residential and commercial structure. (See Civil Code Section 1954.202 (g) and Water code Section 517 for additional details.)

WATER BUDGET. is the estimated total landscape irrigation water use which shall not exceed the maximum applied water allowance calculated in accordance with the Department of Water Resources Model Efficient Landscape Ordinance (MWELO)

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TENANT IMPROVEMENT - KITCHEN RESTAURANT

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REVISIONS

NO	DATE	DESCRIPTION
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SHEET #
A-002

2022 CALIFORNIA GREEN BUILDING STANDARDS CODE
NONRESIDENTIAL MANDATORY MEASURES, SHEET 2 (January 2023)

SECTION 5.303 INDOOR WATER USE

5.303.1 METERS. Separate submeters or metering devices shall be installed for the uses described in Sections 5.303.1.1 and 5.303.1.2.

5.303.1.1 Buildings in excess of 50,000 square feet. Separate submeters shall be installed as follows:

1. For each individual leased, rented or other tenant space within the building projected to consume more than 100 gal/day (380 L/day), including, but not limited to, spaces used for laundry or restaurant or food service, medical or dental office, laboratory, or beauty salon or barber shop.
2. Where separate submeters for individual building tenants are infeasible, for water supplied to the following subsystems:
   a. Makeup water for cooling towers where flow through is greater than 500 gpm (31 L/s)
   b. Makeup water for evaporative coolers greater than 6 gpm (0.04 L/s)
   c. Steam and hot water boilers with energy input more than 500,000 Btu/h (147 kW)

5.303.1.2 Excess consumption. A separate submeter or metering device shall be provided for any tenant within a new building or within an addition that is projected to consume more than 1,000 gal/day.

5.303.3 WATER CONSERVING PLUMBING FIXTURE S AND FITTINGS. Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall comply with the following:

5.303.3.1 Water Closets. 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.

Note: The effective flush volume of dual flush toilets is defined as the composite, average flush volume of two reduced flushes and one full flush.

5.303.3.2 Urinals.

5.303.3.2.1 Wall-mounted Urinals. The effective flush volume of wall-mounted urinals shall not exceed 0.125 gallons per flush.

5.303.3.2.2 Floor-mounted Urinals. The effective flush volume of floor-mounted or other urinals shall not exceed 0.5 gallons per flush.

5.303.3.3 Showerheads. [BSC-CG]

5.303.3.3.1 Single showerhead. 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.

5.303.3.3.2 Multiple showerheads serving one shower. When a shower is served by more than one showerhead, the combined flow rate of all the 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.

Note: A hand held shower shall be considered a showerhead.

5.303.3.4 Faucets and fountains.

5.303.3.4.1 Nonresidential Lavatory faucets. Lavatory faucets shall have a maximum flow rate of not more than 0.5 gallons per minute at 60 psi.

5.303.3.4.2 Kitchen faucets. Kitchen faucets shall have a maximum flow rate of not more than 1.8 gallons per minute at 60 psi. Kitchen faucets may temporarily increase the flow above the maximum rate, but not to exceed 2.2 gallons per minute at 60 psi, and must default to a maximum flow rate of 1.8 gallons per minute at 60 psi.

5.303.3.4.3 Wash fountains. Wash fountains shall have a maximum flow rate of not more than 1.8 gallons per minute/20 (rim space inches) at 60 psi.

5.303.3.4.4 Metering faucets. Metering faucets shall not deliver more than 0.20 gallons per cycle.

5.303.3.4.5 Metering faucets for wash fountains. Metering faucets for wash fountains shall have a maximum flow rate of not more than 0.20 gallons per minute/20 (rim space inches) at 60 psi.

Note: Where complying faucets are unavailable, aerators or other means may be used to achieve reduction.

5.303.3.4.6 Pre-rinse spray valve.

When installed, shall meet the requirements in the California Code of Regulations, Title 20 (Appliance Efficiency Regulations), Section 1605.3 (h)(4) Table H-2, Section 1605.3 (h)(4)(A), and Section 1607, and shall be equipped with an integral automatic shutoff.

FOR REFERENCE ONLY. The following table and code section have been repealed from the California Code of Regulations, Title 20 (Appliance Efficiency Regulations), Section 1605.3 (h)(4) and Section 1605.3 (h)(4)(A):

TABLE H-2

STANDARDS FOR COMMERCIAL PRE-RINSE SPRAY VALVES MANUFACTURED ON OR AFTER JANUARY 28, 2019

PRODUCT CLASS (spray force in ounce-force (oz))	MAXIMUM FLOW RATE (gpm)
Product Class 1 (≤ 5.0 oz)	1.00
Product Class 2 (> 5.0 oz and ≤ 8.0 oz)	1.20
Product Class 3 (> 8.0 oz)	1.28

5.303.4 COMMERCIAL KITCHEN EQUIPMENT.

5.303.4.1 Food Waste Disposers. Disposers shall either modulate the use of water to no more than 1 gpm when the disposer is not in use (not actively grinding food waste/other food) or shall automatically shut off after no more than 10 minutes of inactivity. Disposers shall use no more than 8 gpm of water.

Note: This code section does not affect local jurisdictions' authority to prohibit or require disposer installation.

5.303.5 AREAS OF ADDITION OR ALTERATION. For those occupancies within the authority of the California Building Standards Commission as specified in Section 101, the provisions of Section 5.303.3 and 5.303.4 shall apply to new fixtures in additions or in areas of alteration to the building.

5.303.6 STANDARDS FOR PLUMBING FIXTURES AND FITTINGS. Plumbing fixtures and fittings shall be installed in accordance with the California Plumbing Code, and shall meet the applicable standards referenced in Table 1701.1 of the California Plumbing Code and in Chapter 6 of this code.

SECTION 5.304 OUTDOOR WATER USE

5.304.1 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS. Nonresidential developments shall comply with a local water efficient landscape ordinance or the current California Department of Water Resources' Model Water Efficient Landscape Ordinance (MWELO), whichever is more stringent.

Notes:

1. The Model Water Efficient Landscape Ordinance (MWELO) is located in the California Code of Regulations, Title 23, Chapter 2.7, Division 2.
2. MWELO and supporting documents, including a water budget calculator, are available at: https://www.water.ca.gov/

5.304.6 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS. For public schools and community colleges, landscape projects as described in Sections 5.304.6.1 and 5.304.6.2 shall comply with the California Department of Water Resources Model Water Efficient Landscape Ordinance (MWELO) commencing with Section 490 of Chapter 2.7, Division 2, Title 23, California Code of Regulations, except that the evapotranspiration adjustment factor (ETAF) shall be 0.55 with an additional water allowance for special landscape areas (SLA) of 0.35.

Exception: Any project with an aggregate landscape area of 2,500 square feet or less may comply with the prescriptive measures contained in Appendix D of the MWELO.

5.304.6.1 Newly constructed landscapes. New construction projects with an aggregate landscape area equal to or greater than 500 square feet.

5.304.6.2 Rehabilitated landscapes. Rehabilitated landscape projects with an aggregate landscape area equal to or greater than 1,200 square feet.

DIVISION 5.4 MATERIAL CONSERVATION AND RESOURCE EFFICIENCY

SECTION 5.401 GENERAL

5.401.1 SCOPE. The provisions of this chapter shall outline means of achieving material conservation and resource efficiency through protection of buildings from exterior moisture, construction waste diversion, employment of techniques to reduce pollution through recycling of materials, and building commissioning or testing and adjusting.

SECTION 5.402 DEFINITIONS

5.402.1 DEFINITIONS. The following terms are defined in Chapter 2 (and are included here for reference)

ADJUST. To regulate fluid flow rate and air patterns at the terminal equipment, such as to reduce fan speed or adjust a damper.

BALANCE. To proportion flows within the distribution system, including sub-mains, branches and terminals, according to design quantities.

BUILDING COMMISSIONING. A systematic quality assurance process that spans the entire design and construction process, including verifying and documenting that building systems and components are planned, designed, installed, tested, operated and maintained to meet the owner's project requirements.

ORGANIC WASTE. Food waste, green waste, landscape and pruning waste, nonhazardous wood waste, and food soiled paper waste that is mixed in with food waste.

TEST. A procedure to determine quantitative performance of a system or equipment.

SECTION 5.407 WATER RESISTANCE AND MOISTURE MANAGEMENT

5.407.1 WEATHER PROTECTION. Provide a weather-resistant exterior wall and foundation envelope as required by California Building Code Section 1402.2 (Weather Protection), manufacturer's installation instructions or local ordinance, whichever is more stringent.

5.407.2 MOISTURE CONTROL. Employ moisture control measures by the following methods:

5.407.2.1 Sprinklers. Design and maintain landscape irrigation systems to prevent spray on structures.

5.407.2.2 Entries and openings. Design exterior entries and/or openings subject to foot traffic or wind driven rain to prevent water intrusion into buildings as follows:

5.407.2.2.1 Exterior door protection. Primary exterior entries shall be covered to prevent water intrusion by using nonabsorbent floor and wall finishes within at least 2 feet around and perpendicular to such openings plus at least one of the following:

1. An installed awning at least 4 feet in depth
2. The door is protected by a roof overhang at least 4 feet in depth
3. The door is recessed at least 4 feet
4. Other methods which provide equivalent protection

5.407.2.2.2 Flashing. Install flashings integrated with a drainage plane

SECTION 5.408 CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING

5.408.1 CONSTRUCTION WASTE MANAGEMENT. Recycle and/or salvage for reuse a minimum of 65% of the non-hazardous construction and demolition waste in accordance with Section 5.408.1.1, 5.408.1.2 or 5.408.1.3, or meet a local construction and demolition waste management ordinance, whichever is more stringent.

5.408.1.1 Construction waste management plan. Where a local jurisdiction does not have a construction and demolition waste management ordinance, submit a construction waste management plan that:

1. Identifies the construction and demolition waste materials to be diverted from disposal by efficient usage, recycling, reuse on the project or salvage for future use or sale.
2. Determines if construction and demolition waste materials will be sorted on site (source separated) or bulk mixed (single stream).
3. Identifies diversion facilities where construction and demolition waste material collected will be taken.
4. Specifies that the amount of construction and demolition waste materials diverted shall be calculated by weight or volume, but not by both.

5.408.1.2 Waste Management Company. Utilize a waste management company that can provide verifiable documentation that the percentage of construction and demolition waste material diverted from the landfill complies with this section.

Note: The owner or contractor shall make the determination if the construction and demolition waste material will be diverted by a waste management company.

Exceptions to Sections 5.408.1.1 and 5.408.1.2:

1. Excavated soil and land clearing debris
2. Alternative waste reduction methods developed by working with local agencies if diversion or recycle facilities capable of compliance with this item do not exist
3. Demolition waste meeting local ordinance or calculated in consideration of local recycling facilities and markets

5.408.1.3 Waste stream reduction alternative. The combined weight of new construction disposal that does not exceed two pounds per square foot of building area may be deemed to meet the 65% minimum requirement as approved by the enforcing agency.

5.408.1.4 Documentation. Documentation shall be provided to the enforcing agency which demonstrates compliance with Sections 5.408.1.1, through 5.408.1.3. The waste management plan shall be updated as necessary and shall be accessible during construction for examination by the enforcing agency.

Notes:

1. Sample forms found in "A Guide to the California Green Building Standards Code (Nonresidential)" located at www.dgs.ca.gov/dsa/Programs/Page-Content/Building-Standards-Commission-Resources-List-Folder/CALGreen may be used to assist in documenting compliance with the waste management plan.
2. Mixed construction and demolition debris processors can be located at the California Department of Resources Recycling and Recovery (CalRecycle).

5.408.2 UNIVERSAL WASTE. [A] Additions and alterations to a building or tenant space that meet the scoping provisions in Section 301.1 for nonresidential additions and alterations, shall require verification that Universal Waste items such as fluorescent lamps and ballasts and mercury containing thermostats as well as other California prohibited Universal Waste materials are disposed of properly and are diverted from landfills. A list of prohibited Universal Waste materials shall be included in the construction documents.

Note: Refer to the Universal Waste Rule line at: http://www.dtsc.ca.gov/UniversalWaste/

5.408.3 EXCAVATED SOIL AND LAND CLEARING DEBRIS. 100 percent of trees, stumps, rocks and associated vegetation and soils resulting primarily from land clearing shall be reused or recycled. For a phased project, such material may be stockpiled on site until the storage site is developed.

Exception: Reuse, either on or off site, of vegetation or soil contaminated by disease or pest infestation.

Notes:

1. If contamination by disease or pest infestation is suspected, contact the County Agricultural Commissioner and follow its direction for recycling or disposal of the material.
2. For a map of know pest and/or disease quarantine zones, consult with the California Department of Food and Agriculture (www.cdfa.ca.gov).

SECTION 5.410 BUILDING MAINTENANCE AND OPERATIONS

5.410.1 RECYCLING BY OCCUPANTS. Provide readily accessible areas that serve the entire building and are identified for the depositing, storage and collection of non-hazardous materials for recycling, including (at a minimum) paper, corrugated cardboard, glass, plastics, organic waste, and metals or meet a lawfully enacted local recycling ordinance, if more restrictive.

Exception: Rural jurisdictions that meet and apply for the exemption in Public Resources Code 42649.82 (a)(2)(A) et seq. shall also be exempt from the organic waste portion of this section.

5.410.1.1 Additions. All additions conducted within a 12 month period under single or multiple permits, resulting in an increase of 30% or more in floor area, shall provide recycling areas on site.

Exception: Additions within a tenant space resulting in less than a 30% increase in the tenant space floor area.

5.410.1.2 Sample ordinance. Space allocation for recycling areas shall comply with Chapter 18, Part 3, Division 30 of the Public Resources Code. Chapter 18 is known as the California Solid Waste Reuse and Recycling Access Act of 1991 (AB 341).

Note: A sample ordinance for use by local agencies may be found in Appendix A of the document at the CalRecycle's web site.

5.410.2 COMMISSIONING. [N] New buildings 10,000 square feet and over. For new buildings 10,000 square feet and over, building commissioning shall be included in the design and construction processes of the building project to verify that the building systems and components meet the owner's or owner representative's project requirements. Commissioning shall be performed in accordance with this section by trained personnel with experience on projects of comparable size and complexity. For I-occupancies that are not regulated by OSHPD or for I-occupancies and U-occupancies that are not regulated by the California Energy Code Section 100.0 Scope, all requirements in Sections 5.410.2 through 5.410.2.6 shall apply.

Note: For energy related systems under the scope (Section 100) of the California Energy Code, including heating, ventilation, air conditioning (HVAC) systems and controls, indoor lighting systems and controls, as well as water heating systems and controls, refer to California Energy Code Section 120.8 for commissioning requirements.

Commissioning requirements shall include:

1. Owner's or Owner Representative's project requirements
2. Basis of design
3. Commissioning measures shown in the construction documents
4. Commissioning plan
5. Functional performance testing
6. Documentation and training
7. Commissioning report

Exceptions:

1. Unconditioned warehouses of any size.
2. Areas less than 10,000 square feet used for offices or other conditioned accessory spaces within unconditioned warehouses.
3. Tenant improvements less than 10,000 square feet as described in Section 303.1.1.
4. Open parking garages of any size, or open parking garage areas of any size, within a structure.

Note: For the purposes of this section, unconditioned shall mean a building, area, or room which does not provide heating and or air conditioning.

Informational Notes:

1. IAS AC 476 is an accreditation criteria for organizations providing training and/or certification of commissioning personnel. AC 476 is available to the Authority Having Jurisdiction as a reference for qualifications of commissioning personnel. AC 476 does not certify individuals to conduct functional performance tests or to adjust and balance systems.
2. Functional performance testing for heating, ventilation, air conditioning systems and lighting controls must be performed in compliance with the California Energy Code.

5.410.2.1 Owner's or Owner Representative's Project Requirements (OPR) [N]. The expectations and requirements of the building appropriate to its phase shall be documented before the design phase of the project begins. This documentation shall include the following:

1. Environmental and sustainability goals
2. Building sustainable goals
3. Indoor environmental quality requirements
4. Project program, including facility functions and hours of operation, and need for after hours operation
5. Equipment and systems expectations
6. Building occupant and operation and maintenance (O&M) personnel expectations

5.410.2.2 Basis of Design (BOD) [N]. A written explanation of how the design of the building systems meets the OPR shall be completed at the design phase of the building project. The Basis of Design document shall cover the following systems:

1. Renewable energy systems
2. Landscape irrigation systems
3. Water reuse system

5.410.2.3 Commissioning plan [N]. Prior to permit issuance a commissioning plan shall be completed to document how the project will be commissioned. The commissioning plan shall include the following:

1. General project information
2. Commissioning goals
3. Systems to be commissioned. Plans for test systems and components shall include
   a. An explanation of the original design intent.
   b. Equipment and systems to be tested, including the extent of tests.
   c. Functions to be tested.
   d. Conditions under which the test shall be performed.
   e. Measurable criteria for acceptable performance.
4. Commissioning team information
5. Commissioning process activities, schedules and responsibilities. Plans for the completion of commissioning shall be included.

5.410.2.4 Functional performance testing. [N]. Functional performance tests shall demonstrate the correct installation and operation of each component, system and system to system interface in accordance with the approved plans and specifications. Functional performance testing reports shall contain information addressing each of the building components tested, the testing methods utilized, and include any readings and adjustments made.

5.410.2.5 Documentation and training. [N]. A Systems Manual and Systems Operations Training are required, including Occupational Safety and Health Act (OSHA) requirements in California Code of Regulations (CCR).

5.410.2.5.1 Systems manual. [N] Documentation of the operational aspects of the building shall be completed within the systems manual and delivered to the building owner or representative. The systems manual shall include the following:

1. Site information, including facility description, history and current requirements
2. Site contact information
3. Basic operations and maintenance, including general site operating procedures, basic troubleshooting, recommended maintenance requirements, site events log
4. Major systems
5. Site equipment inventory and maintenance notes
6. A copy of verifications required by the enforcing agency or this code
7. Other resources and documentation, if applicable

5.410.2.5.2 Systems operations training. [N] A program for training of the appropriate maintenance staff for each equipment type and/or system shall be developed and documented in the commissioning report and shall include the following:

1. System/equipment overview (what it is, what it does and with what other systems and/or equipment it interfaces)
2. Review and demonstration of servicing/preventive maintenance
3. Review of the information in the Systems Manual
4. Review of the record drawings on the system/equipment

5.410.2.6 Commissioning report. [N] A report of commissioning process activities undertaken through the design and construction phases of the building project shall be completed and provided to the owner or representative.

5.410.4 TESTING AND ADJUSTING. New buildings less than 10,000 square feet. Testing and adjusting of systems shall be required for new buildings less than 10,000 square feet or new systems to serve an addition or alteration subject to Section 303.1.

5.410.4.2 (Reserved)

Note: For energy related systems under the scope (Section 100) of the California Energy Code, including heating, ventilation, air conditioning (HVAC) systems and controls, indoor lighting system and controls, as well as water heating systems and controls, refer to California Energy Code Section 120.8 for commissioning requirements and Sections 110.3, 120.6, 130.4, and 140.9(b)3 for additional testing requirements of specific systems.

5.410.4.3 Systems. Develop a written plan of procedures for testing and adjusting systems. Systems to be included for testing and adjusting shall include at a minimum, as applicable to the project:

1. Renewable energy systems
2. Landscape irrigation systems
3. Water reuse systems

5.410.4.3 Procedures. Perform testing and adjusting procedures in accordance with manufacturer's specifications and applicable standards on each system.

5.410.4.3.1 HVAC balancing. In addition to testing and adjusting, before a new space conditioning system serving a building or space is operated for normal use, the system shall be balanced in accordance with the procedures defined by the Testing Adjusting and Balancing Bureau National Standards, the National Environmental Balancing Bureau Procedural Standards, Associated Air Balance Council National Standards or as approved by the enforcing agency.

5.410.4.4 Reporting. After completion of testing, adjusting and balancing, provide a final report of testing signed by the individual responsible for performing these services.

5.410.4.5 Operation and maintenance (O & M) manual. Provide the building owner or representative with detailed operating and maintenance instructions and copies of guarantees/warranties for each system. O & M instructions shall be consistent with OSHA requirements of CCR, Title 8, Section 5142, and other related regulations.

5.410.4.5.1 Inspections and reports. Include a copy of all inspection verifications and reports required by the enforcing agency.

DIVISION 5.5 ENVIRONMENTAL QUALITY

SECTION 5.501 GENERAL

5.501.1 SCOPE. The provisions of this chapter shall outline means of reducing the quantity of air contaminants that are odorous, irritating, and/or harmful to the comfort and well-being of a building's occupants, occupants and neighbors.

SECTION 5.502 DEFINITIONS

5.502.1 DEFINITIONS. The following terms are defined in Chapter 2 (and are included here for reference)

ARTERIAL HIGHWAY. A general term denoting a highway primarily for through traffic usually on a continuous route.

A-WEIGHTED SOUND LEVEL (dBA). The sound pressure level in decibels as measured on a sound level meter using the internationally standardized A-weighting filter or as computed from sound spectral data to which A-weighting adjustments have been made.

I BTU/HOUR. British thermal units per hour, also referred to as Btu. The amount of heat required to raise one pound of water one degree Fahrenheit per hour, a common measure of heat transfer rate. A ton of refrigeration is 12,000 Btu, the amount of heat required to melt a ton (2,000 pounds) of ice at 32° Fahrenheit.

COMMUNITY NOISE EQUIVALENT LEVEL (CNEL). A metric similar to the day-night average sound level (Ldn), except that a 5 decibel adjustment is added to the equivalent continuous sound exposure level for evening hours (7pm to 10pm) in addition to the 10 dB nighttime adjustment used in the Ldn.

COMPOSITE WOOD PRODUCTS. Composite wood products include hardwood plywood, particleboard and medium density fiberboard. "Composite wood products" does not include hardboard, structural plywood, structural panels, structural composite lumber, oriented strand board, glued laminated timber, timber, prefabricated wood I-joists and finger-jointed lumber, all as specified in California Code of Regulations (CCR), Title 17, Section 93120.1(a).

Note: See CCR, Title 17, Section 93120.1

DAY-NIGHT AVERAGE SOUND LEVEL (Ldn). The A-weighted equivalent continuous sound exposure level for a 24-hour period with a 10 dB adjustment added to sound levels occurring during nighttime hours (10p.m. to 7 a.m.).

DECIBEL (dB). A measure on a logarithmic scale of the magnitude of a particular quantity (such as sound pressure, power, or intensity) with respect to a reference quantity.

ELECTRIC VEHICLE (EV). An automotive type vehicle for on-road use, such as passenger automobiles, buses, trucks, vans, neighborhood electric vehicles, electric motorcycles, and the like, primarily powered by an electric motor that draws current from a rechargeable storage battery, fuel cell, photo-voltaic array, or other source of electric current. Plug-in hybrid electric vehicles (PHEV) are considered electric vehicles. For purposes of the California Electrical Code, off-road, self-propelled electric vehicles, such as industrial trucks, hoists, lifts, transports, golf carts, airline ground support equipment, tractors, boats, and the like, are not included.

ELECTRIC VEHICLE CHARGING STATION(S) (EVCS). One or more spaces intended for charging electric vehicles.

ELECTRIC VEHICLE SUPPLY EQUIPMENT (EVSE). The conductors, including the ungrounded, grounded, and equipment grounding conductors and the electric vehicle connectors, attachment plugs, and all other fittings, devices, power outlets, or apparatus installed specifically for the purpose of transferring energy between the premises wiring and the electric vehicle.

ENERGY EQUIVALENT (NOISE) LEVEL (Leq). The level of a steady noise which would have the same energy as the fluctuating noise level integrated over the time period of interest.

EXPRESSWAY. An arterial highway for through traffic which may have partial control of access, but which may or may not be divided or have grade separations at intersections.

FREEWAY. A divided arterial highway with full control of access and with grade separations at intersections.

GLOBAL WARMING POTENTIAL (GWP). The radiative forcing impact of one mass-based unit of a given greenhouse gas relative to an equivalent unit of carbon dioxide over a given period of time. Carbon dioxide is the reference compound with a GWP of one.

GLOBAL WARMING POTENTIAL VALUE (GWP VALUE). A 100-year GWP value published by the Intergovernmental Panel on Climate Change (IPCC) on either its Second Assessment Report (SAR) (IPCC, 1995), or its Fourth Assessment A-3 Report (AR4) (IPCC, 2007). The SAR GWP values are found in column "SAR (100 yr)" of Table 2.14, the AR4 GWP values are found in column "100 yr" of Table 2.14.

HIGH-GWP REFRIGERANT. A compound used as a heat transfer fluid or gas that is: (a) a chlorofluorocarbon, a hydrochlorofluorocarbon, a hydrofluorocarbon, a perfluorocarbon, or any compound or blend of compounds, with a GWP value equal to or greater than 150, or (B) any ozone-depleting substance as defined in Title 40 of the Code of Federal Regulations, Part 82, sec. 82.3 (as amended March 10, 2009).

LONG RADIUS ELBOW. Pipe fitting installed between two lengths of pipe or tubing to allow a change of direction, with a radius 1.5 times the pipe diameter.

LOW-GWP REFRIGERANT. A compound used as a heat transfer fluid or gas that: (A) has a GWP value less than 150, and (B) is not an ozone-depleting substance as defined in Title 40 of the Code of Federal Regulations, Part 82, sec. 82.3 (as amended March 10, 2009).

MHRV. Heat minimum efficiency reporting value, based on ASHRAE 52.2-1999.

MAXIMUM INCREMENTAL REACTIVITY (MIR). The maximum change in weight of ozone formed by adding a compound to the "Base Reactive Organic Gas (ROG) Mixture" per weight of compound added, expressed to hundredths of a gram of O3/g ROG.

PRODUCT-WEIGHTED MIR (PWMIR). The sum of all weight MIR for all ingredients in a product subject to the article. The PWMIR is the total product reactivity expressed to hundredths of a gram of ozone formed per gram of product (excluding container and packaging).

PSIG. Pounds per square inch, gauge.

REACTIVE ORGANIC COMPOUND (ROC). Any compound that has the potential, once emitted, to contribute to ozone formation in the troposphere.

SCHRADER ACCESS VALVES. Access fittings with a valve core installed.

SHORT RADIUS ELBOW. Pipe fitting installed between two lengths of pipe or tubing to allow a change of direction, with a radius 1.0 times the pipe diameter.

SUPERMARKET. For the purposes of Section 5.508.2, a supermarket is any retail food facility with 8,000 square feet or more conditioned area, and that utilizes either refrigerated display cases, walk-in coolers or freezers.

SUBSTANCE THAT DEPLETES STRATOSPHERIC OZONE (ODS). A chemical compound based on carbon chains or rings with vapor pressures greater than 0.1 millimeters of mercury at room temperature. These compounds typically contain hydrogen and may contain oxygen, nitrogen and other elements. See CCR Title 17, Section 94506(a).

Note: Where specific regulations are cited from different agencies such as SCAQMD, ARB, etc., the VOC definition included in that specific regulation is the one that prevails for the specific measure in question.

SECTION 5.503 FIREPLACES

5.503.1 FIREPLACES. Install only a direct vent sealed combustion gas or sealed wood burning fireplace, or a sealed woodstove or pellet stove, and refer to residential requirements in the California Energy Code, Title 24, Part 6, Subchapter 7, Section 150. Woodstoves, pellet stoves and fireplaces shall comply with applicable local ordinances.

5.503.1.1 Woodstoves. Woodstoves and pellet stoves shall comply with U.S. EPA New Source Performance Standards (NSPS) emission limits as applicable, and shall have a permanent label indicating they are certified to meet the emission limits.

SECTION 5.504 POLLUTANT CONTROL

5.504.1 TEMPORARY VENTILATION. 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% 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 Covering of duct openings and protection of mechanical equipment during construction. At the time of rough installation and during storage on the construction site until final startup of the heating, cooling and ventilation equipment, all duct and other related air distribution component openings shall be covered with tape, plastic, sheetmetal or other methods acceptable to the enforcing agency to reduce the amount of dust, water and debris which may enter the system.

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TENANT IMPROVEMENT - KITCHEN RESTAURANT

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REVISIONS

NO	DATE	DESCRIPTION
1		
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PRINTED ON: FEB. 24, 2025
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SHEET #
A-003

NO 01 OF 100

2022 CALIFORNIA GREEN BUILDING STANDARDS CODE

NONRESIDENTIAL MANDATORY MEASURES, SHEET 3 (January 2023)

5.504.4 FINISH MATERIAL POLLUTANT CONTROL. Finish materials shall comply, with Sections 5.504.4.1 through 5.504.4.6.

5.504.4.1 Adhesives, sealants and caulks. Adhesives, sealants, and caulks used on the project shall meet the requirements of the following standards:

1. Adhesives, adhesive bonding primers, adhesive primers, sealants, sealant primers and caulks shall comply with local or regional air pollution control or air quality management district rules where applicable, or SCAQMD Rule 1168 VOC limits, as shown in Tables 5.504.4.1 and 5.504.4.2. Such products also shall comply with the Rule 1168 prohibition on the use of certain toxic compounds (chloroform, ethylene dichloride, methylene chloride, perchloroethylene and trichloroethylene), except for aerosol products as specified in subsection 2, below.
2. Aerosol adhesives, and smaller unit sizes of adhesives, and sealant or caulking compounds (in units of product, less packaging, which do not weigh more than one pound and do not consist of more than 16 fluid ounces) shall comply with statewide VOC standards and other requirements, including prohibitions on use of certain toxic compounds, of California Code of Regulations, Title 17, commencing with Section 94507.

TABLE 5.504.4.1 - ADHESIVE VOC LIMIT[1]

Less Water and Less Exempt Compounds in Grams per Liter

ARCHITECTURAL APPLICATIONS	CURRENT VOC LIMIT
INDOOR CARPET ADHESIVES	50
CARPET PAD ADHESIVES	50
OUTDOOR CARPET ADHESIVES	150
WOOD FLOORING ADHESIVES	100
RUBBER FLOOR ADHESIVES	60
SUBFLOOR ADHESIVES	50
CERAMIC TILE ADHESIVES	65
VCT & ASPHALT TILE ADHESIVES	50
DRYWALL & PANEL ADHESIVES	50
COVE BASE ADHESIVES	50
MULTIPURPOSE CONSTRUCTION ADHESIVES	70
STRUCTURAL GLAZING ADHESIVES	100
SINGLE PLY ROOF MEMBRANE ADHESIVES	250
OTHER ADHESIVES NOT SPECIFIED IN THIS TABLE	50
SPECIALTY APPLICATIONS	
PVC WELDING	510
CPVC WELDING	490
ABS WELDING	325
PLASTIC FOAM WELDING	250
ADHESIVE PRIMER FOR PLASTIC	550
CONTACT ADHESIVE	80
WHITE OR CLEAR CONTACT ADHESIVE	250
STRUCTURAL WOOD MEMBER ADHESIVE	140
TOP & TRIM ADHESIVES	250
SUBSTRATE SPECIFIC APPLICATIONS	
METAL TO METAL	30
PLASTIC FOAMS	50
POROUS MATERIAL (EXCEPT WOOD)	50
WOOD	30
FIBERGLASS	80

1. For adhesives VOC's to be reported as grams of VOC per liter of the adhesive with the highest VOC content shall be allowed.
2. For additional information regarding methods to measure the VOC content specified in this table, see South Coast Air Quality Management District Rule 1168 www.aqmd.gov/docs/default-source/rule-book/Regs-XIV/r1168.pdf.

TABLE 5.504.4.2 - SEALANT VOC LIMIT

Less Water and Less Exempt Compounds in Grams per Liter

SEALANTS	CURRENT VOC LIMIT
ARCHITECTURAL	250
MARINE DECK	760
NON-SULFUR FUME CURING	300
ROOFING	250
SINGLE PLY ROOF MEMBRANE	450
OTHER	420
SEALANT PRIMERS	
ARCHITECTURAL	
NON-POROUS	250
POROUS	775
MODIFIED BITUMINOUS	500
MARINE DECK	760
OTHER	750

NOTE: FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THESE TABLES, SEE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1168 www.aqmd.gov/docs/default-source/rule-book/Regs-XIV/r1168.pdf.

5.504.4.3 Paints and coatings. Architectural paints and coatings shall comply with VOC limits in Table 1 of the ARB Architectural Coatings Suggested Control Measure, as shown in Table 5.504.4.3, unless more stringent local limits apply. The VOC content limit for coatings that do not meet the definitions for the specialty coatings categories listed in Table 5.504.4.3 shall be determined by classifying the coating as a flat, non-flat, or nonflat High Gloss coating, based on its gloss, as defined in Subsections 4.21, 4.36 and 4.37 of the 2007 California Air Resources Board Suggested Control Measure, and the corresponding flat, Nonflat or nonflat High Gloss VOC limit in Table 5.504.4.3 shall apply.

5.504.4.3.1 Aerosol Paints and coatings. Aerosol paints and coatings shall meet the PWAIM Limits ROC in Section 94522(a)(1) and other requirements, including prohibitions on use of certain toxic compounds and ozone depleting substances, in Sections 94522(c)(1) and 94522 of California Code of Regulations, Title 17, commencing with Section 94520, and in areas under the jurisdiction of the Bay Area Air Quality Management District additionally comply with the percent VOC by weight of product limits of Regulation 8 Rule 49.

TABLE 5.504.4.3 - CONT.

COATING CATEGORY	CURRENT VOC LIMIT
SPECIALTY COATINGS	
ALUMINUM ROOF COATINGS	400
BITUMINOUS ROOF COATINGS	400
BITUMINOUS ROOF PRIMERS	350
BOND breakers	350
CONCRETE CURING COMPOUNDS	350
CONCRETE/MASONRY SEALERS	100
DRIVEWAY SEALERS	50
DRY FOG COATINGS	150
FLOW COATINGS	150
FLUSH COATINGS	150
FLOOR COATINGS	100
FORM RELEASE COMPOUNDS	250
GRAPHIC ARTS COATINGS (SIGN PAINTS)	500
HIGH TEMPERATURE COATINGS	420
INDUSTRIAL MAINTENANCE COATINGS	250
LOW MASS STRUCTURES	420
MAINTENANCE COATINGS	250
METALLIC PIGMENTED COATINGS	500
MULTICOLOR COATINGS	250
PRETREATMENT WASH PRIMERS	420
PRIMERS, SEALERS, & UNDERCOATERS	100
REACTIVE PENETRATING SEALERS	350
RECYCLED COATINGS	250
ROOF COATINGS	50
RUST PREVENTIVE COATINGS	250
SHELLACS	
CLEAR	730
OPAQUE	550
SPECIALTY PRIMERS, SEALERS & UNDERCOATERS	100
STAINS	250
STONE CONSOLIDANTS	450
SWIMMING POOL COATINGS	340
TRAFFIC MARKING COATINGS	100
TUB & TILE REFINISH COATINGS	420
WATERPROOFING MEMBRANES	250
WOOD COATINGS	275
WOOD PRESERVATIVES	350
ZINC RICH PRIMERS	340

1. Effective January 1, 2019 the VOC limits in Table 5.504.4.3 are the VOC limits for Regions 4 and 15 as defined in California Code of Regulations, Title 17, Subchapter 8.5, Article 1, Section 94509(d). For all other regions, the VOC limits in Table 5.504.4.3 are the VOC limits for Regions 1, 2, 3, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28.
2. For multicolor coatings, the VOC limit in Table 5.504.4.3 is 250 grams of VOC per liter of coating including water and exempt compounds.
3. For specialty primers, sealers and undercoaters, the VOC limit in Table 5.504.4.3 is 200 grams of VOC per liter of coating including water and exempt compounds.

5.504.4.3.2 Verification. Verification of compliance with this section shall be provided at the request of the enforcing agency. Documentation may include, but is not limited to, the following:

1. Manufacturer's product specification
2. Field verification of on-site product containers

5.504.4.4 Carpet Systems. All carpet installed in the building interior shall meet the requirements of the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.2, January 2017 (Emission testing method for California Specifications 01350).

See California Department of Public Health's website for certification programs and testing labs https://www.cdph.ca.gov/Programs/CCDPHP/DECODC/EHLB/IAQ/Pages/VOC.aspx#material

5.504.4.4.1 Carpet cushion. All carpet cushion installed in the building interior shall meet the requirements of the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.2, January 2017 (Emission testing method for California Specifications 01350).

See California Department of Public Health's website for certification programs and testing labs. https://www.cdph.ca.gov/Programs/CCDPHP/DECODC/EHLB/IAQ/Pages/VOC.aspx#material

5.504.4.4.2 Carpet adhesive. All carpet adhesive shall meet the requirements of Table 5.504.4.1.

5.504.4.5 Composite wood products. Hardwood plywood, particleboard and medium density fiberboard composite wood products used on the interior or exterior of the buildings shall meet the requirements for formaldehyde as specified in ARB's Air Toxics Control Measure (ATCM) for Composite Wood (17 CCR 93120 et seq.). Those materials not exempted under the ATCM must meet the specified emission limits, as shown in Table 5.504.4.5.

5.504.4.5.3 Documentation. Verification of compliance with this section shall be provided as requested by the enforcing agency. Documentation shall include at least one of the following:

1. Product certifications and specifications
2. Chain of custody certifications
3. Product labeled and invoiced as meeting the Composite Wood Products regulation (see CCR, Title 17, Section 93120, et seq.)
4. Exterior grade products marked as meeting the PS-1 or PS-2 standards of the Engineered Wood Association, the Australian AS/NZS 2269 or is compliant to TSCA Title VI standards
5. Other methods acceptable to the enforcing agency

TABLE 5.504.4.5 - FORMALDEHYDE LIMITS[1, 2]

PRODUCT	CURRENT LIMIT
HARDWOOD PLYWOOD VENEER CORE	0.05
HARDWOOD PLYWOOD COMPOSITE CORE	0.05
PARTICLE BOARD	0.09
MEDIUM DENSITY FIBERBOARD	0.11
THIN MEDIUM DENSITY FIBERBOARD[3]	0.13

1. Values in this table are derived from those specified by the California Air Resources Board, 93120 Airborne Toxic Control Measure, Phase 2 (Effective January 13, 2012). For additional information regarding formaldehyde, see CCR 93120 et seq.
2. For hardwood plywood, particleboard, medium density fiberboard, and thin medium density fiberboard sold or supplied to the extended supply chain, see CCR 93120 et seq. for more stringent requirements.
3. Thin medium density fiberboard is defined as 5/16 inch (8 millimeters) or less in thickness.

5.504.4.6 Resilient flooring systems. Where resilient flooring is installed, at least 80 percent of floor area receiving resilient flooring shall meet the requirements of the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.2, January 2017 (Emission testing method for California Specifications 01350).

See California Department of Public Health's website for certification programs and testing labs https://www.cdph.ca.gov/Programs/CCDPHP/DECODC/EHLB/IAQ/Pages/VOC.aspx#material

5.504.4.6.1 Verification of compliance. Documentation shall be provided verifying that resilient flooring materials meet the pollutant emission limits.

5.504.4.7 Thermal insulation. Comply with the requirements of the California Department of Public Health, "Standard Method of the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.2, January 1.2, January 2017 (Emission testing method for California Specification 01350).
See California Department of Public Health's website for certification programs and testing labs https://www.cdph.ca.gov/Programs/CCDPHP/DECODC/EHLB/IAQ/Pages/VOC.aspx#material

5.504.4.7.1 Verification of compliance. Documentation shall be provided verifying that thermal insulation materials meet the pollutant emission limits.

5.504.4.8 Acoustical ceiling and wall panels. Comply with the requirements of the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.2, January 2017 (Emission testing method for California Specification 01350).
See California Department of Public Health's website for certification programs and testing labs https://www.cdph.ca.gov/Programs/CCDPHP/DECODC/EHLB/IAQ/Pages/VOC.aspx#material

5.504.4.8.1 Verification of compliance. Documentation shall be provided verifying that acoustical finish materials meet the pollutant emission limits.

5.504.5.3 Filters. In mechanically ventilated buildings, provide regularly occupied areas of the building with air filtration media for outside and return air that provides at least a Minimum Efficiency Reporting Value (MERV) of 13. MERV 13 filters shall be installed prior to occupancy, and recommendations for maintenance with filters of the same value shall be included in the operation and maintenance manual.

Exceptions: Existing mechanical equipment.

5.504.5.3.1 Labeling. Installed filters shall be clearly labeled by the manufacturer indicating the MERV rating.

5.504.7 ENVIRONMENTAL TOBACCO SMOKE (ETS) CONTROL. Where outdoor areas are provided for smoking, prohibit smoking within 25 feet of building entries, outdoor air intakes and operable windows and within the building as already prohibited by other laws or regulations, or as enforced by ordinances, regulations or policies of any city, county, city and county, California Community College, campus of the California State University, or campus of the University of California, whichever are more stringent. When ordinances, regulations or policies are not in place, post signage to inform building occupants of the prohibitions.

SECTION 5.505 INDOOR MOISTURE CONTROL

5.505.1 INDOOR MOISTURE CONTROL. Buildings shall meet or exceed the provisions of California Building Code, CCR, Title 24, Part 2, Sections 1202 (Ventilation) and Chapter 14 (Exterior Walls). For additional measures, see Section 5.407.2 of this code.

SECTION 5.506 INDOOR AIR QUALITY

5.506.1 OUTSIDE AIR DELIVERY. For mechanically or naturally ventilated spaces in buildings, meet the minimum requirements of Section 120.1 (Requirements for Ventilation) of the California Energy Code, or the applicable local code, whichever is more stringent, and Division 1, Chapter 4 of CCR, Title 8.

5.506.2 CARBON DIOXIDE (CO2) MONITORING. For buildings or additions equipped with demand control ventilation, CO2 sensors and ventilation controls shall be specified and installed in accordance with the requirements of the California Energy Code. Section 120(c)(4).

5.506.3 Carbon dioxide (CO2) monitoring in classrooms (DSA-SS). Each public K-12 school classroom, as listed in Table 120.1-A of the California Energy Code, shall be equipped with a carbon dioxide monitor or sensor that meets the following requirements:

1. The monitor or sensor shall be permanently affixed in a tamper-proof manner in each classroom between 3 and 6 feet (914 mm and 1829 mm) above the floor and at least 5 feet (1524 mm) away from door and operable windows.
2. When the monitor or sensor is not integral to an Energy Management Control System (EMCS), the monitor or sensor shall display the carbon dioxide readings on the device. When the sensor is integral to an EMCS, the carbon dioxide readings shall be available to and regularly monitored by facility personnel.
3. A monitor shall provide notification through a visual indicator on the monitor when the carbon dioxide levels in the classroom have exceeded 1,100ppm. A sensor integral to an EMCS shall provide notification to facility personnel through a visual and/or audible indicator when the carbon dioxide levels in the classroom have exceeded 1,100ppm.
4. The monitor or sensor shall measure carbon dioxide levels at minimum 15- minute intervals and shall maintain a record of previous carbon dioxide measurements of not less than 30 days duration.
5. The monitor or sensor used to measure carbon dioxide levels shall have the capacity to measure carbon dioxide levels with a range of 400ppm to 2000ppm or greater.
6. The monitor or sensor shall be certified by the manufacturer to be accurate within 75ppm at 1,000ppm carbon dioxide concentration and shall be certified by the manufacturer to require calibration no more frequently than once every 5 years.

SECTION 5.507 ENVIRONMENTAL COMFORT

5.507.4 ACOUSTICAL CONTROL. Employ building assemblies and components with Sound Transmission Class (STC) values determined in accordance with ASTM E 90 and ASTM E 413, or Outdoor-Indoor Sound Transmission Class (OITC) determined in accordance with ASTM E 1332, using either the prescriptive or performance method in Section 5.507.4.1 or 5.507.4.2.

Exception: Buildings with few or no occupants or where occupants are not likely to be affected by exterior noise, as determined by the enforcement authority, such as factories, stadiums, storage, enclosed parking structures and utility buildings.

Exception: (DSA-SS) For public schools and community colleges, the requirements of this section and all subsections apply only to new construction.

5.507.4.1 Exterior noise transmission, prescriptive method. Wall and roof ceiling assemblies exposed to the noise source making up the building or addition envelope or altered envelope shall meet a composite STC rating of at least 50 or a composite OITC rating of no less than 40, with exterior windows of a minimum STC of 40 or OITC of 30 in the following locations:

1. Within the 65 CNEL noise contour of an airport.

Exceptions:

1. Lin or CNEL for military airports shall be determined by the facility Air Installation Compatible Land Use Zone (AICUZ) plan.
2. Lin or CNEL for other airports and heliports for which a land use plan has not been developed shall be determined by the local general plan noise element.

2. Within the 65 CNEL or Lin noise contour of a freeway or expressway, railroad, industrial source or fixed guideway source as determined by the Noise Element of the General Plan.

5.507.4.1.1 Noise exposure where noise contours are not readily available. Buildings exposed to a noise level of 65 dB L_{eq} - 1 hr during any hour of operation shall have building, addition or alteration exterior wall and roof ceiling assemblies exposed to the noise source meeting a composite STC rating of at least 45 (or OITC 35), with exterior windows of a minimum STC of 40 (or OITC 30).

5.507.4.2 Performance Method. For buildings located as defined in Section 5.507.4.1 or 5.507.4.1.1, wall and roof ceiling assemblies exposed to the noise source making up the building or addition envelope or altered envelope shall be constructed to provide an interior noise environment attributable to exterior sources that does not exceed an hourly equivalent noise level (Leq 1hr) of 50 dBA in occupied areas during any hour of operation.

5.507.4.2.1 Sea Features. Exterior features such as sound walls or earth berms may be utilized as appropriate to the building, addition or alteration project to mitigate sound migration to the interior.

5.507.4.2.2 Documentation of Compliance. An acoustical analysis documenting complying interior sound levels shall be prepared by personnel approved by the architect or engineer of record.

5.507.4.3 Interior sound transmission. Wall and floor ceiling assemblies separating tenant spaces and public places shall have an STC of at least 40.

Note: Examples of assemblies and their various STC ratings may be found at the California Office of Noise Control: www.toolbase.org/PDF/CaseStudies/stc_icc_ratings.pdf

SECTION 5.508 OUTDOOR AIR QUALITY

5.508.1 Ozone depletion and greenhouse gas reductions. 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, refrigeration and fire suppression equipment that do not contain CFCs.

5.508.1.2 Halons. Install HVAC, refrigeration and fire suppression equipment that do not contain Halons.

5.508.2 Supermarket refrigerant leak reduction. New commercial refrigeration systems shall comply with the provisions of the section when installed in retail food stores 8,000 square feet or more conditioned area, and that utilize either refrigerated display cases, or walk-in coolers or freezers connected to remote compressor units or condensing units. The leak reduction measures apply to refrigeration systems containing high global warming potential (high GWP) refrigerants with a GWP of 150 or greater. New refrigeration systems include both new facilities and the replacement of existing refrigeration systems in existing facilities.

Exception: Refrigeration systems containing low global warming potential (low GWP) refrigerant with a GWP value less than 150 are not subject to this section. Low GWP refrigerants are nonozone depleting refrigerants that include ammonia, carbon dioxide (CO_2), and potentially other refrigerants.

5.508.2.1 Refrigerant piping. Piping compliant with the California Mechanical Code shall be installed to be accessible for leak protection and repairs. Piping runs using threaded pipe, copper tubing with an outside diameter (OD) less than 1/4 inch, flared tubing connections and short radius elbows shall not be used in refrigerant systems except as noted below.

5.508.2.1.1 Threaded pipe. Threaded connections are permitted at the compressor rack.

5.508.2.1.2 Copper pipe. Copper tubing with an OD less than 1/4 inch may be used in systems with a refrigerant charge of 5 pounds or less.

5.508.2.1.2.1 Anchorage. One-fourth inch OD tubing shall be securely clamped to a rigid base to keep vibration levels below 8 mils.

5.508.2.1.3 Flared tubing connections. Double flared tubing connections may be used for pressure controls, valve post lines and so on.

Exception: Single flared tubing connections may be used with a mulling seal coated with industrial sealant suitable for use with refrigerants and tightened in accordance with manufacturer's recommendations.

5.508.2.1.4 Elbows. Short radius elbows are only permitted where space limitations prohibit use of long radius elbows.

5.508.2.2 Valves. Valves Valves and fittings shall comply with the California Mechanical Code and as follows:

5.508.2.2.1 Pressure relief valves. For vessels containing high GWP refrigerant, a rupture disc shall be installed between the outlet of the vessel and the inlet of the pressure relief valve.

5.508.2.2.1.1 Pressure detection. A pressure gauge, pressure transducer or other device shall be installed in the space between the rupture disc and the relief valve inlet to indicate a disc rupture or discharge of the relief valve.

5.508.2.2.2 Access valves. Only Schrader access valves with a brass or steel body are permitted for use.

5.508.2.2.2.1 Valve caps. For systems with a refrigerant charge of 5 pounds or more, valve caps shall be brass or steel and not plastic.

5.508.2.2.2.2 Seal caps. If designed for it, the cap shall have a neoprene O-ring in place.

5.508.2.2.2.3 Chain tethers. Chain tethers to fill over the stem are required for valves designed to have seal caps.

Exception: Valves with seal caps that are not removed from the valve during stem operation.

5.508.2.3 Refrigerated service cases. Refrigerated service cases holding food products containing vinegar and salt shall have evaporator coils of corrosion resistant material, such as stainless steel, or be coated to prevent corrosion from these substances.

5.508.2.3.1 Coil coating. Consideration shall be given to the heat transfer efficiency of coil coating to maximize energy efficiency.

5.508.2.4 Refrigerant receivers. Refrigerant receivers with capacities greater than 200 pounds shall be fitted with a device that indicates the level of refrigerant in the receiver.

5.508.2.5 Pressure testing. The system shall be pressure tested during installation prior to evacuation and charging.

5.508.2.5.1 Minimum pressure. The system shall be charged with regulated dry nitrogen and appropriate tracer gas to bring system pressure up to 300 psig minimum.

5.508.2.5.2 Leaks. Check the system for leaks, repair any leaks, and retest for pressure using the same gauge.

5.508.2.5.3 Allowable pressure change. The system shall stand, unaltered, for 24 hours with no more than a +/- one pound pressure change from 300 psig, measured with the same gauge.

5.508.2.6 Evacuation. The system shall be evacuated after pressure testing and prior to charging.

5.508.2.6.1 First vacuum. Pull a system vacuum down to at least 1000 microns (+/- 50 microns), and hold for 30 minutes.

5.508.2.6.2 Second vacuum. Pull a second system vacuum to a minimum of 500 microns and hold for minutes.

5.508.2.6.3 Third vacuum. Pull a third vacuum down to a minimum of 300 microns, and hold for 24 hours with a maximum drift of 100 microns over a 24-hour period.

CHAPTER 7
INSTALLER & SPECIAL INSPECTOR QUALIFICATIONS

702 QUALIFICATIONS

702.1 INSTALLER TRAINING. HVAC installer installers shall be trained and certified in the proper installation of HVAC systems including ducts and equipment by a nationally or regionally recognized training or certification program. Uncertified persons may perform HVAC installations when under the direct supervision and responsibility of a person trained and certified to install HVAC systems or contractor licensed to install HVAC systems. Examples of acceptable HVAC training and certification programs include but are not limited to the following:

1. State certified apprenticeship programs.
2. Public utility training programs.
3. Training programs sponsored by trade, labor or statewide energy consulting or verification organizations.
4. Programs sponsored by manufacturing organizations.
5. Other programs acceptable to the enforcing agency.

702.2 SPECIAL INSPECTION [HCD]. When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition to other certifications or qualifications acceptable to the enforcing agency, the following certifications or education may be considered by the enforcing agency when evaluating the qualifications of a special inspector:

1. Certification by a national or regional green building program or standard publisher.
2. Certification by a statewide energy consulting or verification organization, such as HERS raters, building performance contractors, and home energy auditors.
3. Successful completion of a third party apprentice training program in the appropriate trade.
4. Other programs acceptable to the enforcing agency.

Notes:

1. Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code.
2. HERS raters are special inspectors certified by the California Energy Commission (CEC) to rate homes in California according to the Home Energy Rating System (HERS).

[BSC-CG] When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition, the special inspector shall have a certification from a recognized state, national or international association, as determined by the local agency. The area of certification shall be closely related to the primary job function, as determined by the local agency.

Note: Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code.

703 VERIFICATIONS

703.1 DOCUMENTATION. Documentation used to show compliance with this code shall include but is not limited to construction documents, plans, specifications, builder or installer certification, inspection reports, or other methods acceptable to the enforcing agency which demonstrate substantial conformance. When specific documentation or special inspection is necessary to verify compliance, that method of compliance will be specified in the appropriate section or identified applicable checklist.

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PROJECT TITLE
VICKY'S BUBBLY CAFE
TENANT IMPROVEMENT - KITCHEN RESTAURANT

PROJECT ADDRESS
14782 CRENSHAW,
GARDENA CA, 90250

REVISIONS

NO	DATE	DESCRIPTION
1		
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PERMIT NO:

TITLE
CALIFORNIA GREEN NOTES

SHEET #
A-004

NO: 01 OF 100

ACCESSIBILITY NOTES

PROVISIONS FOR THE HANDICAPPED

NOTE: CONTRACTORS ARE ADVISED THAT IT IS YOUR RESPONSIBILITY TO BE AWARE OF THE "DESIGN AND CONSTRUCTION REQUIREMENTS" OR HANDICAPPED ACCESSIBILITY GUIDELINES WHICH ARE INTENDED TO PROVIDE A SAFE HARBOR FOR COMPLIANCE WITH THE ACCESSIBILITY REQUIREMENTS OF THE UNIFORM ACCESS AMENDMENTS ACT OF 2015

SITE DEVELOPMENT/PARKING SPACES

1. ALL PEDESTRIAN ACCESS TO ALL BUILDING ENTRANCES SHALL BE BY MEANS OF A RAMP. PATH OF TRAVEL / ACCESS MUST BE PROVIDED FROM BOTH THE HANDICAP PARKING SPACE AND THE PUBLIC SIDEWALK PER 2010 CBC 11B-206
2. VERTICALLY HANDICAPPED PARKING SPACES SHALL BE LOCATED AS NEAR AS PRACTICAL TO A PRIMARY ENTRANCE 2010 CBC 11B-208.1
3. PARKING SPACES SHALL BE 4 MIN. X 5.5 M WITH AN ADJACENT 5 LOADING ZONE DOUBLE SPACES SHALL BE 5.5 MIN. 2010 CBC 11B-502
4. THE MAXIMUM SLOPE OF THE PARKING SPACE SURFACE IN ANY DIRECTION SHALL NOT EXCEED 1:48 (2% FLAT OR 48 MM SLOPE)
5. EACH PARKING SPACE RESERVED FOR THE PHYSICALLY HANDICAPPED SHALL BE IDENTIFIED BY A REFLECTORIZED SIGN PERMANENTLY POSTED IMMEDIATELY ADJACENT TO AND VISIBLE FROM EACH STALL OR SPACE CONSISTING OF A PROFILE VIEW OF A WHEELCHAIR WITH OCCUPANT IN WHITE ON DARK BLUE BACKGROUND. THE SIGN SHALL NOT BE SMALLER THAN 70 SQUARE INCHES IN AREA AND WHEN IN A PATH OF TRAVEL, SHALL BE POSTED AT A MINIMUM HEIGHT OF 80 INCHES FROM THE BOTTOM OF THE SIGN TO THE PARKING SPACE FINISHED GRADE. SIGNS MAY ALSO BE CENTERED ON THE WALL AT THE INTERIOR END OF THE PARKING SPACE AT A MINIMUM HEIGHT OF 36 INCHES FROM THE PARKING SPACE FINISHED GRADE, GROUND OR SIDEWALK.

   IN ADDITION, SIGN SHALL BE POSTED IN A CONSPICUOUS PLACE AT EACH ENTRANCE TO OFF-STREET PARKING FACILITIES, OR IMMEDIATELY ADJACENT TO AND VISIBLE FROM EACH STALL OR SPACE. THE SIGN SHALL BE NOT LESS THAN 17 X 22" IN SIZE WITH LETTERING NOT LESS THAN 1 INCH IN HEIGHT WHICH CLEARLY AND COMPREHENSIVELY STATES THE FOLLOWING:

   "UNAUTHORIZED VEHICLES PARKED IN DESIGNATED HANDICAPPED SPACES NOT DISPLAYING DISTINGUISHING PLACARD OR LICENSE PLATES ISSUED FOR PHYSICALLY DISABLED PERSONS MAY BE TOWED AWAY AT OWNER'S EXPENSE. TOWED VEHICLES MAY BE RECLAIMED AT: _____"

RESTROOMS/SANITARY FACILITES

DOORS & DIMENSIONS

1. ON DIAGRAMS LEADING TO SANITARY FACILITIES THE SYMBOLS TO BE PROVIDED ARE
   a. 12" STACKED RAIL FRAMING FOR MEN (SEE CBC 11B-703.7.2.3.1)
   b. 12" DIAMETER CIRCLE FOR WOMEN (SEE CBC 11B-703.7.2.3.2)
   c. 12" DIAMETER CIRCLE WITH SQUARE TRIANGLE FOR UNISEX, MOUNTED AT 60" HIGH ON THE CENTER OF THE DOOR WITH CONTRASTING COLOR (SEE CBC 11B-703.7.2.3.3)
2. ALL DOORWAYS LEADING INTO A SANITARY FACILITY SHALL HAVE A 32" MIN. CLEAR WIDTH
3. THERE SHALL BE A LEVEL AREA WITH 60" CLEAR DEPTH IN THE DIRECTION OF THE DOOR SWING AND LEVEL AREA WITH A 44" CLEAR DEPTH IN THE OPPOSITE DIRECTION OF THE DOOR SWING

CLEARANCES

4. PROVIDE A CLEAR AREA 60" IN DIAMETER X 27" HIGH OR A SPACE 30" X 42" AND 27" HIGH (2011 TA) 2010 CBC
5. DOORS OTHER THAN HANDICAPPED COMPARTMENTS ARE NOT TO ENCROACH MORE THAN 12" INTO THE ABOVE MAINTAINED CLEAR SPACE
6. PROVIDE A 36" CLEAR SPACE BETWEEN TOILET AND FIXTURE AND 36" CLEAR BETWEEN THE WATER CLOSET AND WALL
7. A 48" LONG SPACE IS REQUIRED IN FRONT OF THE WATER CLOSET. A 48" CLEAR SPACE IS REQUIRED WHEN THE TOILET COMPARTMENT HAS A DOOR (DRAG BAND MAXIMUM ENCROACHMENT IS 12" 2010 CBC 11B-604.3)
8. THE WATER CLOSET COMPARTMENT DOOR SHALL HAVE AN AUTOMATIC CLOSING DEVICE AND TO PROVIDE A 32" CLEAR WIDTH FOR EXIT ENTRY AND A 34" CLEAR WIDTH FOR SIDE ENTRY. THE DOOR IS TO BE SELF CLOSING AND SWING OUT

GRAB BARS AT THE WATER CLOSET

9. PROVIDE ONE GRAB BAR AT THE SIDE 42" LONG EXTENDING 24" IN FRONT OF THE WATER CLOSET AND LINE AT THE REAR 36" LONG CENTERED ON THE WATER CLOSET. BOTH SHALL BE MOUNTED 33" ABOVE THE FLOOR 2010 CBC 11B-604
10. THE BARS SHALL BE 1 1/4" TO 1 1/2" IN DIAMETER WITH 1 1/2" CLEARANCE TO THE WALL
11. THE GRAB BAR SHALL HAVE A 1/8" MIN. RADIUS ON ALL EDGES AND FREE OF SHARP OR ABRASIVE ELEMENTS
12. THE BAR FASTENER AND MOUNTING SUPPORT SHALL BE ABLE TO WITHSTAND 250 LBS. IN BENDING, SHEAR AND TENSION

WATER CLOSETS

13. THE HEIGHT OF THE WATER CLOSET SEAT SHALL BE 17 MIN - 19 MAX AFF
14. THE FORCE REQUIRED TO ACTIVATE THE FLUSH VALVE SHALL BE 5 LBS MAX. OPEN 3
15. WHERE URINALS ARE PROVIDED THE RIM OF AT LEAST ONE SHALL PROJECT 14" FROM THE WALL AND BE 17" MAX AFF
16. THE FORCE REQUIRED TO ACTIVATE THE FLUSH VALVE SHALL BE 5 LBS MAX AND LOCATED 44" MAX AFF
17. PROVIDE A 30" X 48" CLEAR FLOOR SPACE FOR FORWARD APPROACH @ LAVATORIES. (SEE CBC 11B-606.2)
18. PROVIDE A 30" X 48" CLEAR FLOOR SPACE FOR FORWARD APPROACH. THE CLEAR FLOOR SPACE MAY INCLUDE KNEE AND TOE SPACE UNDER THE LAVATORY
19. PROVIDE A CLEAR SPACE BENEATH LAVATORIES 29" HIGH BY 30" WIDE BY 8" DEEP AT THE TOP AND 8" X 30" WIDE X 17" DEEP AT THE BOTTOM FROM THE FRONT OF THE LAVATORY (SEE CBC 11B-606.3)
20. HOT WATER AND DRAIN PIPES SHALL BE INSULATED 11B-606.3
21. THE FAUCET CONTROLS AND THE OPERATING MECHANISM (OPENING WITH ONE HAND) SHALL BE OF THE TYPE NOT REQUIRING AN OPERATING FORCE EXCEEDING 5 lbs ON TOUCH, SNAPPING, PINCHING OR TWISTING OF THE WRIST (SEE CBC 11B-606.4

ACCESSORIES

22. SELF CLOSING VALVES ARE TO REMAIN OPEN FOR AT LEAST 10 SECONDS
23. THE BOTTOM EDGE OF THE REFLECTING SURFACE SHALL BE 40" MAX. 2010 CBC 11B-603.3
24. TOILET TISSUE DISPENSER SHALL BE MOUNTED WITH 7" MIN. 9" MAX FROM THE FRONT EDGE OF THE TOILET SEAT. (SEE SEC 11B-604.7.)
25. OPERATING PARTS OF DISPENSING AND DISPOSAL FUTURES (TOWELS, WASTE, COIN SLOTS, ETC. SHALL BE WITHIN 40" MAX. A.F.F.

GENERAL REQUIREMENTS

DRINKING FOUNTAIN

31. A DRINKING FOUNTAIN IS LOCATED WITHIN AN ALCOVE. THE ALCOVE SHALL NOT BE LESS THAN 30" WIDE X 18" DEEP
32. THE SPACE BENEATH THE DRINKING FOUNTAIN SHALL NOT BE LESS THAN 27" HIGH X 8" DEEP AT THE TOP AND 8" WIDE X 17" DEEP AT THE BOTTOM FROM THE FRONT OF THE DRINKING FOUNTAIN
33. A LEVER CONTROLLED VALVE (EASILY OPERATED) IS TO BE LOCATED WITHIN 6" OF THE FRONT OF THE FOUNTAIN AND 36" ABOVE FF
34. THE FOUNTAIN SPOUT SHALL BE WITHIN 17" AFF

DOOR NOTES

NOTES:

1. DOORS - EACH LEAF OF DOORS IN A MINIMUM OF 32 INCHES SHALL PROVIDE MAY BE CLEAR OPENING AND A MIN HEIGHT OF 6'-8". BUT IN NO CASE SHALL SHALL ANY DAMAGING DOOR LEAF SHALL EXCEED 44" (1192 1010 F.)
2. NEW AGENCY NUMBERS - ALL BUILDING ON THE PROPERTY OF THE LONG BEACH AIRPORT SHALL MAILTS HAVE BUILDINGS WITHIN THE CITY SHALL BE PROVIDED WITH ADDRESS NUMBERS AND/OR SUITE NUMBERS ON THE REAR DOORS TO EACH TENANT SPACE
3. WHERE ACCESS TO OR WITHIN A STRUCTURE OR AREA IS RESTRICTED, A KEY BOXES BOX SHALL BE INSTALLED IN AN APPROVED LOCATION. FOR EXISTING KEY BOXES UPDATED KEYS SHALL BE PROVIDED. (MULTI TENANT BUILDING (CFC 506.1)
4. IDENTIFICATION - WHEN REQUIRED KEYS SHALL BE CLEARLY TRANSFERRED AS TO THE AREA AND/OR LOCATION THEY SERVE AND A MIN. OF 5 SEPARATE SETS SHALL BE LOCATED WITHIN THE KEY BOX. (CAMC 18 KB SEC. CFC 506.1)
5. "NO SMOKING" SIGNS ARE REQUIRED
6. MAIN ENTRANCE DOOR IS THE ONLY DOOR WITH THE THIS DOOR TO REMAIN UNLOCKED WHEN THIS SPACE IS OCCUPIED. MAIN AND DOUBLE KEYLOCKING SYSTEM TO CLEAR WITHIN FIVE (5) APPROVED KEYS FOR DOOR HARDWARE
7. SELF RELEASING DOOR HARDWARE WITH INTERCONNECTED SPRING LOCKING HARDWARE, SPRING DEADBOLT PROTECTION WITH SINGLE MOTION EXITING AND ACTIVATING WHICH TO LEAVE IN FAULT. THE ALARMED ACTIVATES WHEN THE INTERIOR IS LEFT IS TURNED
8. SELF RELEASING DOOR HARDWARE: THE OUTSIDE OF DOOR IS LOCKED AND UNLOCKED BY A KEY FROM THE EXTERIOR. THE INSIDE LEVER IS ALWAYS UNLOCKED AND PROVIDES A SINGLE ACTION EXITING WHEN THE INTERIOR LEVER IS TURNED
9. OTHER THAN THE MAIN ENTRANCE, REQUIRED EXIT DOORS AND DOOR HARDWARE SHALL MATCH EITHER NUMBER 1 OR 2
10. IF ONLY ONE EXIT IS REQUIRED AND THAT HAS A 2ND DOOR, MAKE SURE THE HARDWARE IS CORRECT. WITHIN HOTELS, THE SECOND DOOR SHOULD NOT HAVE AN EXIT SIGN AND A MIN DOUBLE KEYED DOORS HARDWARE. IF A DOUBLE DOOR IS REQUIRED AND THAT HAS CALLING SYSTEM AND DOUBLE KEYED, THE DOOR SHOULD ONLY HOTEL TO SIGN AND DOUBLE KEYLOCKING SYSTEM. THE ACTIVE DOOR WITH ONLY ONE SIGN SHALL BE PROVIDED WITH HARDWARE TYPE 1 OR 2.
11. OPEN WINDOWS, PITCH, LATCHES, CLOSE, AND OTHER OPENINGS IN WALLS ON GROUND FOR BUILDINGS (E.G. KITCHENS AND SHOP) NOT REQUIRE HEAVY SHEARING, HEAVY HINGES, OR FASTENING OR ANY PITCH STOPPERS.
12. LATCHES AND LOCKING DEVICES THAT ARE HAND ACTUATED AND WHICH ARE ON A PATH OF TRAVEL SHALL BE DURABLE BY LEVER TYPE HARDWARE, PANIC BARS, PUSH PLATES, THUMB BARS, U SHAPED HANDLES OR OTHER HARDWARE DESIGNED TO PROVIDE PADDING WITH EASY REQUIREMENTS THE ABILITY TO UNDER THE OPTIONAL HARDWARE
13. HINGES, PIVOTS, LATCHES, CLOSES, AND OTHER OPENABLE PARTS OR DOORS AND GATES SHALL COMPLY WITH THE SUBA OPERATION. OPENABLE PARTS OF SUCH HINGES ARE SHALL BE LOCATED BETWEEN 34 INCHES MIN. AND 44 INCHES MAX ABOVE FLOOR. HINGED SLIDING DOORS ARE IN THE FULLY OPEN POSITION. THE OPENABLE PARTS SHALL BE EXPOSED AND OPENABLE FROM BOTH SIDES. PER 11B-404.2.5
14. THE FLOOR OR LANDING SHALL BE NOT MORE THAN 1/2" LOWER THAN THE THRESHOLD OF THE DOORWAY. CHANGES IN LEVEL BETWEEN 1/4" & 1/2" SHALL BE BEVELED WITH A SLOPE NO GREATER THAN ONE UNIT VERTICAL IN 2 UNITS HORIZONTAL
15. TRANSOM DOOR AND GATE SURFACES IN FRONT LOCATIONS OF THE FORWARD FOOTER HOLDERS (VERTICAL) SHALL HAVE A SMOOTH SURFACE ON THE PULL SIDE EXTENDING THE FULL WIDTH OF THE DOOR OR GATE. PARTS CREATING TRANSOM IN OR MOVING DOUBLE DOOR SHALL BE NO MORE 5" ON THE WORK PLANE IN THE OPEN AND BE FULLY OPEN OR PARTIALLY OPEN. OPENING LIMITED BY PUBLIC USE PLACE WHICH CYPRESS (CBC 11B-404.2.3)
16. THE MAX FORCE REQUIRED TO PUSH OR PULL OPEN A DOOR SHALL DEPEND IN THE FOLLOW ING. PUSH OR PULL FORCE FOR A HINGED DOOR SHALL BE MEASURED PARALLEL TO THE DOOR AT THE DOOR PULL OR LATCH
17. OTHER THAN REQUIRED FIRE DOORS, INTERIOR DOORS SHALL HAVE A MAX. OPENING FORCE OF 5LBS
18. DOORS MUST HAVE A MIN OF 32IN CLEAR WIDTH

DOOR & FRAME SCHEDULE

DOOR											FRAME		HARDWARE	FIRE RATING & ETC
NO.	QNTY	SIZE	MANUFACTURER	LOCATION	TYPE	MAT	CORE	FINISH	GLAZING		MAT	FINISH		
FIRST FLOOR														
001		72" x 84" x 1 3/4"	TEMPERED GLASS STORFRONT	MAIN ENTRANCE	A	AL	AL	ANOD	TEMPERED		AL	ANOD	CL, MP, WS, PP, KLM, TH	
002		36" x 80" x 1 3/4"	HM EXTERIOR DOOR	REAR EXIT	B	HM	HC	PT	NONE		HM	PT	CL, LA, EP, KLM, PN, TH	
003		36" x 84" x 1 3/4"	HM INTERIOR DOOR	RESTROOM	D	HM	HC	PT	NONE		HM	PT	CL, LA, EP, KLM	

DOOR HARDWARE LEGEND

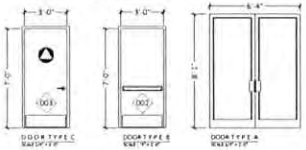
AL	ALUMINUM	HM	HOLLOW METAL	PNS	PRE FINISHED	W	WOOD
BB	BALL BEARING BOLTS	IN	INSULATED	PT	PAINT	WS	WEATHERSTRIPPING
C	CHAIN	LPRS	LEVER PRIVACY SET	SC	SOLID CORE	KLM	KEY LOCKING MECHANISM
CL	CLOSER	LS	LOCK SET	ST	STAIN	PP	PUSH PULL HARDWARE
DB	DEAD BOLT	NRP	NON REMOVABLE PIN	ST	STOP	KP	KICK PLATE
GL	GLAZING	PB	PANIC BAR	TH	ALUMINUM THRESHOLD		

LOCK SET /HARDWARE SET

NUMBER	QNTY	MANUFACTURER	MODEL NO.	LOCATION	FINISH	INSTALL HEIGHT	EGRESS COMPLIANT YES / NO

WINDOW & FRAME SCHEDULE

WINDOW													FRAME			NOTES
NO	SIZE	TYPE	ACTION	MAT	MANUFACTURER	MODEL #	FINISH	GLAZING	Hmin	X	Y	SILL HEIGHT	HEAD HEIGHT	MATERIAL		
FIRST FLOOR																
AA	72" X 108"	STOREFRONT	FIXED	ALUMIN	CR LAUMARE	TYPICAL	ANOD	TEMPERED	0.25	0.12		0"	SYSTEM 12'-0"	ALUMIN	FIXED STOREFRONT WITH TRANSOM	



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STAMP

OWNER / TENATE

GRENSHAW PLAZA
14782 GRENSHAW BLVD.
GARDENA, CA 90249
PH. (310) 717-3742

PROJECT TITLE
VICKY'S BUBBLY CAFE
TENANT IMPROVEMENT - KITCHEN RESTAURANT

PROJECT ADDRESS
14782 GRENSHAW, GARDENA CA, 90250

REVISIONS

NO	DATE	DESCRIPTION
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DRAWN BY: I.J. M

CHECKED BY: I.M

PRINTED ON: FEB. 24, 2025

PERMIT NO:

TITLE

WINDOW / DOOR FINSH SCHEDULE / NOTES

SHEET #

A-005

NO 01 OF 100

INTERIOR ENVIRONMENT

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F. INTERIOR FINISHES

NOTE #1
INTERIOR FINISH MATERIALS WITH ASTM ... WALL AND CEILING SHALL BE TESTED AS SPECIFIED IN SECTION 803. SPECIFY THE CLASSIFICATIONS PER TABLE 803.11 AND SECTION 803.1

NOTE #2
THE PLANS SPECIFIED NOTING OF FINISHES AND TRIALS ON THE WALLS OF THE CORRIDOR, LOBBY AND EXIT ENCLOSURES MUST BE IDENTIFIED ON THE PLANS

G. FIRE RESISTANT RATED CONSTRUCTION

NOTE #1
FIRE RATED WOOD WALLS SHALL BE PER TABLE 721.1(3) AND WOOD ASSEMBLIES OF THE GYPSUM HANDBOOK, OR HAVE UNDER APPROVAL OR ESC APPROVAL

H. BUILDING FINISHES

1. ACCESS SHALL BE PROVIDED TO ALL MECHANICAL EQUIPMENT ON THE ROOF
2. PROVIDE ANTI-SLIP TYPE FINISHES FIRST, INCLUDES FRONT EDGE, ELEVATOR SILLS AND DOORS. EXCEPTION: MAINTENANCE OF THE BUILDING ARTIFACTS ALREADY IN THE OWNER TO COORDINATE AND ALIGNED WITH THE CITY OF LOS ANGELES TO REMOVE AND CONVERTS WITH 1 SAMPLE THE LANDMARK BEING APPROVED. ALSO.
3. EACH FACE OF EXITS SHALL INSTALLED IN HAZARDOUS LOCATIONS SHALL BE IDENTIFIED BY A MANUFACTURER'S DESIGNATION SPECIFICS WHO APPLIED THE SOLUTION. THE SOLUTION OF THE CONTRACTOR SHALL INCLUDE ONE ... THE FOLLOWING SHALL BE STRIKING PLY STYLE AND HAZARDOUS LOCATION TO THE PURCHASE SAFETY SLIPPING. SELF. SKIN
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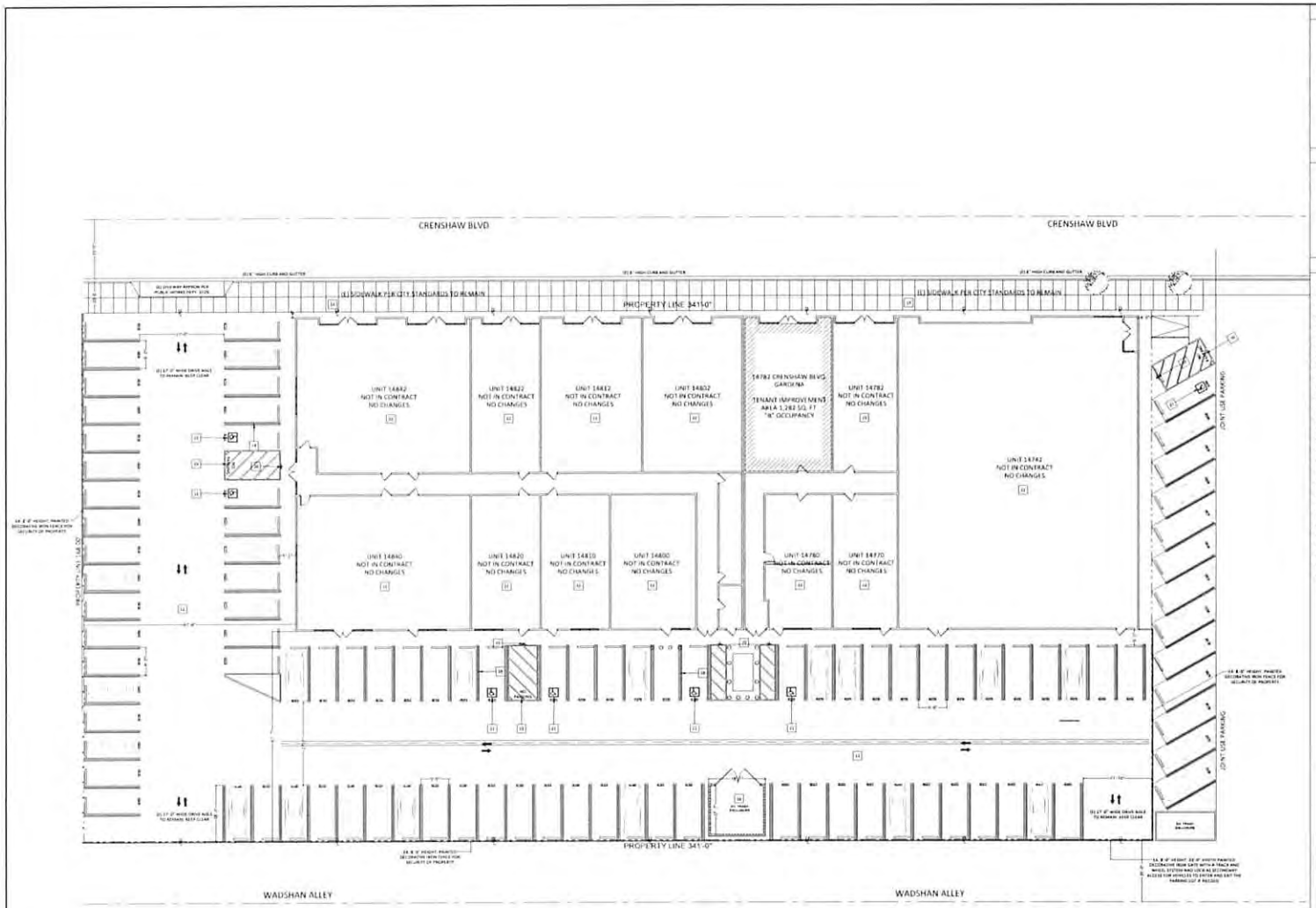

PARTIAL SITE PLAN | SCALE 1/8"=1'-0" | 1

SYMBOL LEGEND

- EXISTING WATER METER BY WATER TO REMAIN. NO CHANGES PROPOSED OR REQUIRED
- EXISTING GAS METER TO REMAIN. NO CHANGES PROPOSED OR REQUIRED
- EXISTING 200 AMP 120/208V SINGLE PHASE ELECTRIC METER WITH UNDERGROUND SERVICE
- AREA OF PROPOSED TENANT IMPROVEMENT / REMODEL
- ADJACENT TENANT SPACE - NOT IN CONTRACT
- PROPERTY LINE
- ACCESSIBLE PATH OF TRAVEL

SYMBOL NOTES

ALL WORK DONE ON PUBLIC RIGHT OF WAY SHALL BE DONE PER CITY PUBLIC WORKS STANDARDS

ALL WORK IN THE PUBLIC RIGHTS-OF-WAY SHALL REQUIRED SEPARATE PERMIT FOR ALL WORK

ALL UTILITIES ELECTRICAL, GAS, WATER, TELEPHONE AND CABLE TELEVISION TO BE UNDERGROUND (UNLESS NOTED OTHERWISE) CONTRACTOR TO COORDINATE WITH UTILITY COMPANIES

CONTACT "DIG ALERT" PRIOR TO ANY EXCAVATION OR TRENCHING 1-800-642-2444

SITE PLAN KEY NOTES

1. AREA OF TENANT IMPROVEMENT / AREA OF ALTERATION
2. EXISTING PROPERTY LINE PER REAR BRIDGE RECORDS. NO CHANGE
3. EXISTING 8" CONCRETE CURB TO REMAIN
4. EXISTING 6" HIGH X 6" 8" CONCRETE WHEEL STOP TO REMAIN
5. EXISTING PARKING LOT LIGHT POLE TO REMAIN
6. EXISTING LANDSCAPING TO REMAIN
7. NEW ACCESSIBLE CURB RAMP PER 2019 CBC CHAPTER 11B
8. NEW DETECTABLE WARNING SURFACE (TRUNCATED DOMES)
9. POLE MOUNTED DESIGNATED PARKING STALL SIGNAGE AT ENTRANCE TO PARKING AREA
10. 4" WIDE SINGLE STRIPED PARKING STALL STRIPING
11. EXISTING SHOPPING CENTER SIGN TO REMAIN. SIGN CHANGES UNDER SEPARATE PERMIT
12. EXISTING 6" X 12" CONCRETE PRIVACY TO REMAIN
13. EXISTING CONCRETE WALKWAY TO REMAIN. NO CHANGES REQUIRED. MAX 2% SLOPE AND CROSS SLOPE
14. EXISTING CONCRETE SIDEWALK PER SITE STANDARDS
15. EXISTING TRANSFORMER TO REMAIN. REFER TO ELECTRICAL PLANS FOR ADDITIONAL INFORMATION
16. EXISTING COVERED TRASH ENCLOSURE AREA TO REMAIN. NO CHANGES
17. LOCATION OF PROPOSED BIO OIL GREASE INTERCEPTOR
18. EXISTING ACCESSIBLE PARKING STALL STRIPTING TO REMAIN
19. EXISTING VAN ACCESSIBLE PARKING STALL STRIPTING TO REMAIN
20. EXISTING ACCESSIBLE PARKING STALL POLE MOUNTED SIGN
21. EXISTING FLOOR PAINTED ACCESSIBLE PARKING SYMBOL
22. EXISTING BUS UNIT TO REMAIN. NOT IN SCOPE. NO CHANGES
23. SPARE
24. SPARE
25. EXISTING CHAIN LINK FENCE TO REMAIN
26. NEW ACCESSIBLE PARKING STALL STRIPTING PER 2022 CBC
27. NEW VAN ACCESSIBLE PARKING STALL STRIPTING 2022 CBC
28. NEW 17" X 22" ACCESSIBLE PARKING STALL POLE MOUNTED SIGN PER 2022 CBC
29. NEW FLOOR PAINTED ACCESSIBLE PARKING SYMBOL PER 2022 CBC

ICON & IKON, INC
ARCHITECTS AND PLANNERS
14623 HAWTHORNE BLVD. #306
LAWNDALE, CALIFORNIA 90260
PH: 310 984 8749, 424 456 4811
WWW.ICONARC.COM

STAMP

LICENSED ARCHITECT
REGISTERED OWNER
No. 14521
Exp. 4-30-25
STATE OF CALIFORNIA

OWNER / TENATL

CRENSHAW PLAZA
14782 CRENSHAW BLVD
GARDENA, CA 90249
PH: (310) 717-3742

PROJECT TITLE

VICKY'S BUBBLY CAFE
TENANT IMPROVEMENT - KITCHEN RESTAURANT

PROJECT ADDRESS

14782 CRENSHAW,
GARDENA CA, 90250

REVISIONS

NO	DATE	DESCRIPTION
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DRAWN BY: I.F. M

CHECKED BY: I.M

PRINTED ON: FEB. 24, 2025

PERMIT NO:

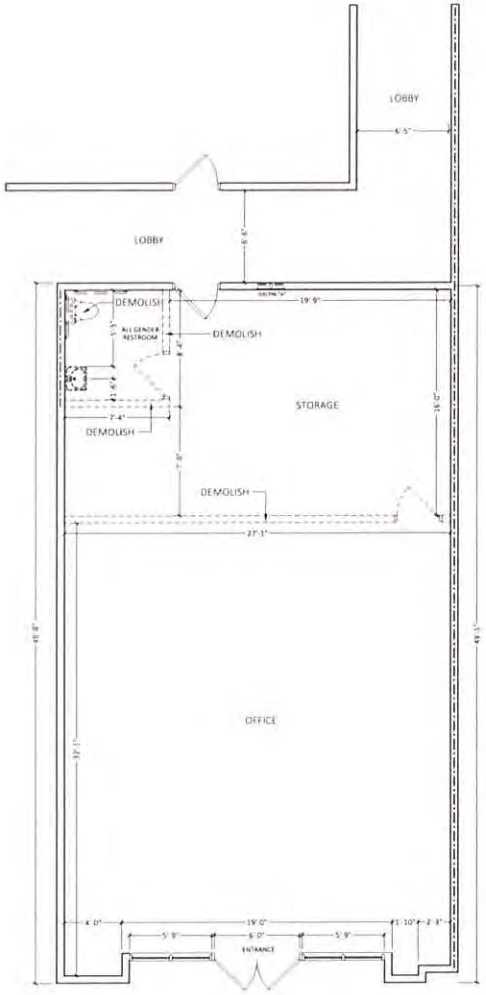
TITLE

AS-BUILT / DEMOLITION FLOOR PLAN

SHEET #

A-101

NO. 01 OF 100



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AS-BUILT / DEMOLITION FLOOR PLAN | SCALE 1/4"=1'-0" | 1

WALL SYMBOL LEGEND

(E) EXTERIOR CONCRETE TILT UP EXTERIOR WALL TO REMAIN. NO CHANGES

(E) INTERIOR NON-LOAD BEARING METAL STUD WALL WITH MIN 2" GYPSUM WALL BOARD AT BOTH SIDES

(E)(E) NON-LOAD BEARING INTERIOR STUD WALL TO BE DEMOLISHED AND DISPOSED OF PER CITY STANDARDS

(E) 1 HR RATE EXTERIOR STUD WALL WITH STUDS @ 16" O.C. AND 1 COAT PORTLAND CEMENT STUCCO AT EXTERIOR SIDE AND 5/8" GYPSUM WALL BOARD AT INTERIOR SIDE

DEMOLITION PLAN NOTES

PROVIDE PLYWOOD BARRICADE AFTER DEMOING EXTERIOR STOREFRONT. EITHER PAINT PLYWOOD (WHITE OR TO MATCH EXISTING STUCCO) OR PROVIDE FULL WRAP COMING SOON GRAPHICS. COMING SOON GRAPHICS TO BE REVIEWED AND APPROVED BY LL

PATCH AND PAINT FACADE UPON REMOVAL OF AWNING

ICON & IKON, INC
ARCHITECTS AND PLANNERS
14623 HAWTHORNE BLVD. #306
LAWNDALE, CALIFORNIA 90260
PH. 310 964 6749, 424 456 4811
WWW.ICONARC.COM

STAMP

LICENSED ARCHITECT
IKON & IKON, INC
REV. 4-23-25
STATE OF CALIFORNIA

OWNER / TENANT

CRENSHAW PLAZA
14782 CRENSHAW BLVD
GARDENA, CA 90249
PH. (310) 717-3742

PROJECT TITLE

VICKY'S BUBBLY CAFE

TENANT IMPROVEMENT - KITCHEN RESTAURANT

PROJECT ADDRESS

14782 CRENSHAW,
GARDENA CA, 90250

REVISIONS

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DRAWN BY: I.J. M

CHECKED BY: I.M

PRINTED ON: FEB. 24, 2025

PERMIT NO:

TITLE

AS-BUILT / DEMOLITION FLOOR PLAN

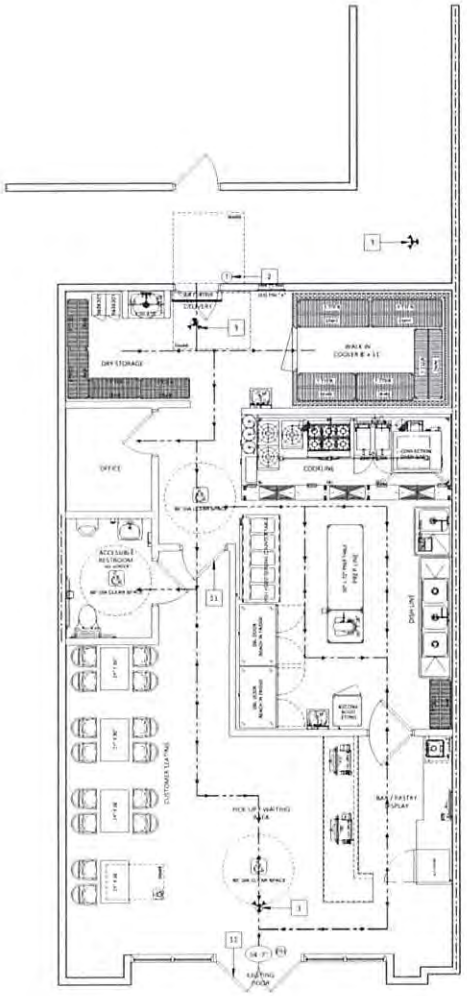
SHEET #

A-201

NO. 01 OF 100

NOTE

REFER TO SHEET A-005 FOR WINDOW AN DOOR SCHEDULE
REFER TO SHEET A-501 FOR EQUIPMENT LIST AND SPECS
REFER TO SHEET A-505 FOR EQUIPMENT LAYOUT
REFER TO SHEET A-510 FOR EQUIPMENT LAYOUT
REFER TO SHEET A-515 FOR PLUMBING ROUGH IN



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EXITING / EGRESS FLOOR PLAN | SCALE 1/8" = 1'-0" | 1

WALL SYMBOL LEGEND

(E) EXTERIOR CONCRETE TILT UP EXTERIOR WALL TO REMAIN - NO CHANGES

(E) WITH NON-LOAD BEARING METAL STUD WALL WITH 5/8" GYPSUM WALL BOARD AT BOTH SIDES

NEW NON BEARING 2 X METAL STUD WALL @ 16" O.C. INSTALL WITH 5/8" GYPSUM WALL BOARD AT BOTH SIDES UNLESS OTHERWISE NOTED

(E) 1 HR FIRE RATED BEARING WALL 2 X STUDS @ 16" O.C. W/ 5/8" TYPE "X" GYPSUM BOARD BOTH SIDES. CONTRACTOR TO FIELD VERIFY. CONTRACTOR TO RESTORE ALL REQUIRED FIRE RATING AT ANY PENETRATING TO FIRE WALL

(N) 1 HR FIRE RATED NON LOAD BEARING 3 5/8" X 1 1/2" METAL STUD FURRING WALL @ 16" O.C. INSTALL WITH 5/8" TYPE "X" GYPSUM WALL BOARD AT INTERIOR SIDE. INSTALL 3/4 OR 3/4 STAGGERED STUD WALL TO MEET CODE

NEW 3 5/8 X 3 5/8" X 1 1/2" METAL STUD WALL TO MEET 1 HR FIRE RATED WALL @ 16" O.C. INSTALLED WITH 5/8" GYPSUM WALL BOARD @ ALL SIDES. INSTALL WITH WALL BRACING PER ULTRA WALL STUDS

NEW 3 5/8" X 3 5/8" X 1 1/2" METAL STUD WALL TO MEET 1 HR FIRE RATED WALL WITH STUDS @ 16" O.C. INSTALLED WITH 5/8" GYPSUM WALL BOARD @ EACH SIDE

NEW 3 5/8" X 3 5/8" X 1 1/2" METAL STUD WALL FURRING WITH STUDS @ 16" O.C. INSTALLED WITH 5/8" GYPSUM WALL BOARD AT SIDE

FLOOR PLAN KEY NOTES

1. INTERNATIONAL SYMBOL OF ACCESSIBILITY PER 2022 CBC 11B-703.7.2.1.
2. 2A10BC FIRE EXTINGUISHER PER 2022 CBC 906.1.
3. EXIT SIGNS SHALL BE ILLUMINATED AT ALL TIMES. TO CAUSE THE EMERGENCY 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 ON SITE GENERATOR. THE INSTALLATION OF THE EMERGENCY POWER SYSTEM SHALL BE IN ACCORDANCE WITH SECTION 2309.
11. DOOR PER DOOR SCHEDULE.

2022 CBC 1004.3
POSTING OF OCCUPANT LOAD

EVERY ROOM OR SPACE WHICH IS USED FOR ASSEMBLY, CLASSROOM USAGE (DINING) OR SIMILAR PURPOSES HAVING AN OCCUPANT LOAD OF 50 OR MORE SHALL HAVE THE OCCUPANT LOAD OF THE ROOM OR SPACE POSTED IN A CONSPICUOUS PLACE NEAR THE MAIN EXIT OR EXIT ALLOCED DIAGRAM FROM THE ROOM OR SPACE. POSTED SIGNS SHALL BE OF AN APPROVED LEGIBLE PERMANENT DESIGN AND SHALL BE MAINTAINED BY THE OWNER OR THE OWNER'S AUTHORIZED AGENT.

NOTES

MAIN ENTRANCE DOOR IS THE ONLY DOOR WITH THE THUMB LOCK TO REMAIN UNLOCKED WHEN THIS SPACE IS OCCUPIED. SIGN AND DOUBLE NOTED LOCKING SYSTEM.

ALL OTHER REQUIRED EXITS SHALL HAVE VALID EXIT DOOR HARDWARE:
1) SELF RELEASING DOOR HARDWARE WITH INTERCONNECTED SINGLE LOCKING HARDWARE. SINGLE DEADBOLT PROTECTION WITH SINGLE MOTION EXITING (NO ACTUATION WHEN THE LEVER IS TURNED. THE DEADBOLT RETRACTS WHEN THE INTERIOR LEVER IS TURNED.
2) SELF RELEASING DOOR HARDWARE. THE OUTSIDE DOOR IS LOCKED AND UNLOCKED BY A KEY FROM THE EXTERIOR. THE INSIDE LEVER IS ALWAYS UNLOCKED AND PROVIDES A SINGLE MOTION EXITING WHEN THE INTERIOR LEVER IS TURNED.

OTHER THAN THE MAIN ENTRANCE, REQUIRED EXIT DOORS AND DOOR SCHEDULES SHALL NA FOR EITHER NUMBER 1 OR 2.

IF ONLY ONE EXIT IS REQUIRED AND THEY HAVE A 2ND DOOR, MAKE SURE THE HARDWARE IS CORRECT. IN OTHER WORDS THE SECOND DOOR SHOULD NOT HAVE NO EXIT SIGN NEEDED AND DOUBLE NOTED LOCKING HARDWARE.

IF ONLY ONE EXIT IS REQUIRED AND THEY ARE CALLING OUT TWO EXITS PROVIDED. THE MAIN ENTRANCE SHALL HAVE THE SIGN AND DOUBLE NOTED LOCKING SYSTEM. THE SECOND DOOR WITH AN EXIT SIGN SHALL BE PROVIDED WITH HARDWARE TYPE 1 OR 2.

NOTE: NO THUMB LOCKS ARE PERMITTED OR ALLOWED.

DOOR NOTES:
1. 2022 CBC / CFC CHAPTER 10
IN BUILDING WITH GROUP "B" OCCUPANCY, THE MAIN EXTERIOR DOORS ARE PERMITTED TO BE EQUIPPED WITH KEY OPERATED LOCKING DEVICES FROM THE EXPRESS SIDE PROVIDED:
a. THE LOCKING DEVICE IS READILY DISTINGUISHABLE AS LOCKED.
b. A CLEARLY DURABLE SIGN IS POSTED ON THE EXPRESS SIDE ON OR NEAREST TO THE DOOR STATING: "THIS DOOR IS TO REMAIN UNLOCKED WHEN THIS BUILDING IS OCCUPIED." THE SIGN SHALL BE IN LETTERS 1 IN HIGH ON A CONTRASTING BACKGROUND AND
2. THE USE OF KEY OPERATED LOCKING DEVICE IS REVOCABLE BY THE BUILDING OFFICIAL FOR GOOD CAUSE.

AB MEANS OF EGRESS DOOR SHALL BE READILY DISTINGUISHABLE FROM THE ADJACENT CONSTRUCTION AND FINISHED SUCH AS THAT THE DOORS ARE EASILY RECOGNIZABLE AS DOORS. MIRRORS OR SIMILAR REFLECTIVE MATERIAL SHALL NOT BE USED ON MEANS OF EGRESS DOORS. MEANS OF EGRESS DOORS SHALL NOT BE CONCEALED BY CURTAINS, DRAPES, DECORATIONS OR SIMILAR MATERIALS. (CFC 1015.1)

NOTE: THE MEANS OF EGRESS SYSTEM MUST HAVE A MINIMUM HEIGHT OF 7'-6"

FLOOR PLAN SYMBOLS

1 — EXIT SIGN TO COMPLY WITH CBC SECTION 11B-703 AND SHALL BE IN ACCORDANCE WITH 2022 CBC SECTION 10.1

AC — ACCESSIBLE ENTRANCE (SIGNAGE PER 2022 CBC CHAPTER 11B)

PH — EGRESS PANIC HARDWARE

INTERNALLY ILLUMINATED EXIT SIGN TO BE CONNECTED TO EMERGENCY POWER SOURCE OR BACK UP GENERATOR CAPABLE OF PROVIDING POWER FOR A DURATION OF NOT LESS THAN 90 MIN. REFER TO ELECTRICAL PLANS

INTERNALLY ILLUMINATED EXIT STAIR LIGHT TO BE CONNECTED TO EMERGENCY POWER SOURCE OR BACK UP GENERATOR CAPABLE OF PROVIDING POWER FOR A DURATION OF NOT LESS THAN 90 MIN. REFER TO ELECTRICAL PLANS

COMMON PATH OF TRAVEL (CBC TABLE 1017.2)
EXIT ACCESS TRAVEL DISTANCE AND COMMON PATH OF TRAVEL
A-002 = 250'-0"

X,XX — ACCUMULATIVE OCCUPANT LOAD ALONG COMMON PATH OF EGRESS

SQF — OCCUPANT AREA SQUARE FOOTAGE
1/15 SF — OCCUPANT LOAD FACTOR
(#) — AREA OCCUPANT LOAD

01 [1,1,1,1] — ACCUMULATIVE 1 WAY OCCUPANT LOAD THROUGH OPENING
01 [1,1] — CAPACITY FACTOR PER OCCUPANT (IN INCHES)
01 [1,1] — TOTAL CAPACITY (IN INCHES)
01 [1,1] — CLEAR WIDTH (IN INCHES)

48" X 60" MIN CLEAR — INDICATES REQUIRED CLEAR MINIMUM FLOOR SPACE AT DOORWAYS

01 — DOOR NUMBER PER DOOR SCHEDULE. REFER TO SHEET A-005 FOR SCHEDULES

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OWNER / TENANT

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PROJECT TITLE
VICKY'S BUBBLY CAFE
TENANT IMPROVEMENT - KITCHEN RESTAURANT

PROJECT ADDRESS
14782 CRENSHAW, GARDENA CA, 90250

REVISIONS

NO	DATE	DESCRIPTION
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TITLE
EXITING / EGRESS FLOOR PLAN

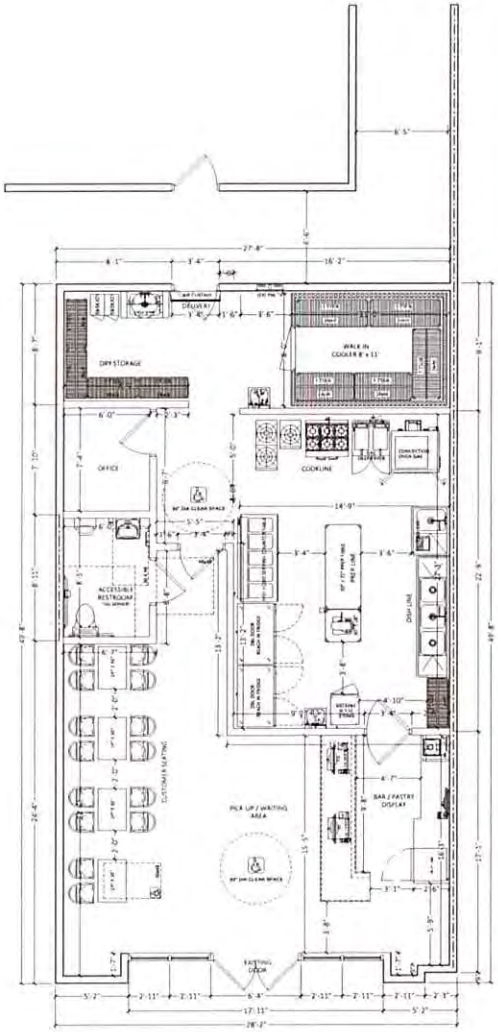
SHEET #
A-301

NOTE

REFER TO SHEET A-005 FOR WINDOW AN DOOR SCHEDULE
REFER TO SHEET A-501 FOR EQUIPMENT LIST AND SPECS
REFER TO SHEET A-505 FOR EQUIPMENT LAYOUT
REFER TO SHEET A-510 FOR EQUIPMENT LAYOUT
REFER TO SHEET A-515 FOR PLUMBING ROUGH IN

WALL SYMBOL LEGEND

	(E) EXTERIOR CONCRETE TILT UP EXTERIOR WALL TO REMAIN - NO CHANGES
	(E) INTERIOR NON LOAD BEARING METAL STUD WALL WITH 4HR @ GYPSUM WALL BOARD AT BOTH SIDES
	1 HR NON BEARING 2 X METAL STUD WALL @ 16" O.C. INSTALL WITH 5/8" GYPSUM WALL BOARD AT BOTH SIDES UNLESS OTHERWISE NOTED
	(T) 1 HR FIRE RATED BEARING WALL 2 X STUDS @ 16" O.C. W/ 5/8" TYPE "X" GYPSUM BOARD WITH SEPE CONTRACTOR TO FIELD VERIFY - CONTRACTOR TO RESTORE ALL REQUIRED FIRE RATINGS AT ANY PENETRATIONS TO FIRE WALL
	(N) 1 HR FIRE RATED NON LOAD BEARING 2 5/8" X 1 1/2" METAL STUD FURRING WALL @ BACK OF COOKLINE INSTALL WITH 5/8" TYPE "X" GYPSUM WALL BOARD AT INTERIOR SIDE - INSTALL 304 OR 316 STAINLESS STEEL WALL PANELS OVER
	NEW 18 GA 1 5/8" X 1 1/2" MTL STUD WALL COVERS 36" HIGH PER PLAN WITH STUDS @ 16" O.C. INSTALLED WITH 5/8" GYPSUM WALL BOARD @ EACH SIDE - INSTALL WITH WALL BRACING PER DETAIL B6 / S-400
	NEW 18 GA 1 5/8" X 1 1/2" METAL STUD WALL TO HAVE 1/2" W/ 2 - 5/8 PER PLAN WITH STUDS @ 16" O.C. INSTALLED WITH 5/8" GYPSUM WALL BOARD @ EACH SIDE
	NEW 18 GA 1 5/8" X 1 1/2" METAL STUD WALL FURRING WITH STUDS @ 16" O.C. INSTALLED WITH ONE 5/8" GYPSUM WALL BOARD AT 1 SIDE



N

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

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PROJECT TITLE

VICKY'S BUBBLY CAFE

TENANT IMPROVEMENT - KITCHEN RESTAURANT

PROJECT ADDRESS

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GARDENA CA, 90250

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FLOOR PLAN DIMENSION

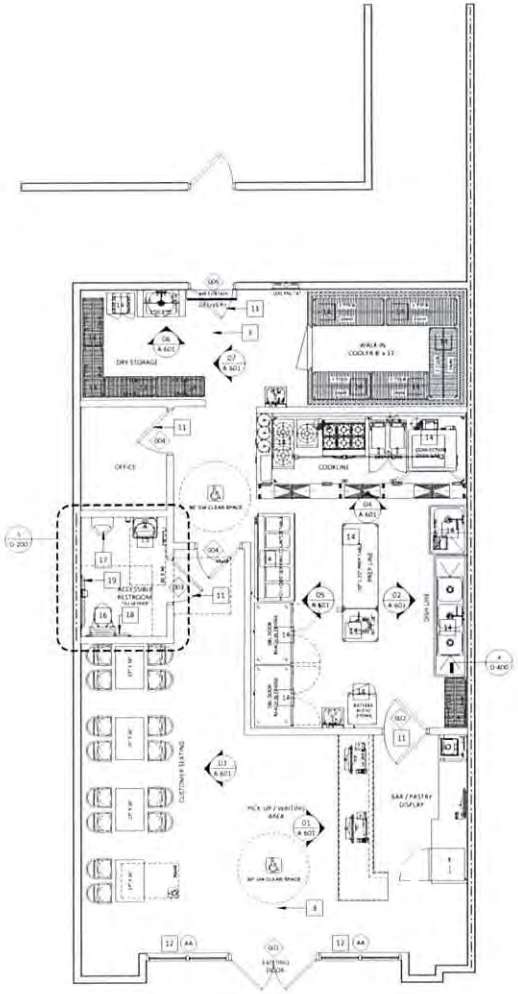
SHEET #

A-401

NO. 01 OF 100

NOTE

REFER TO SHEET A-005 FOR WINDOW AN DOOR SCHEDULE
REFER TO SHEET A-501 FOR EQUIPMENT LIST AND SPECS.
REFER TO SHEET A-505 FOR EQUIPMENT LAYOUT
REFER TO SHEET A-510 FOR EQUIPMENT LAYOUT
REFER TO SHEET A-515 FOR PLUMBING ROUGH IN



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

N

FLOOR PLAN CALL-OUTS | SCALE 1/4"=1'-0" | 1

WALL SYMBOL LEGEND

FLOOR PLAN NOTES

FLOOR PLAN KEY NOTES

1. INTERNATIONAL SYMBOL OF ACCESSIBILITY PER 2022 CBC 11B-703.7.2.1
2. TACTILE EXIT SIGN PER 2022 CBC 11B-703.5.1
3. EXIT SIGNS SHALL BE ILLUMINATED AT ALL TIMES. EQUIPMENT CONSISTING OF ILLUMINATION FOR A DURATION OF NOT LESS THAN 90 MINUTES IN CASE OF PRIMARY POWER LOSS. THE EXIT ILLUMINATION MEANS SHALL BE CONNECTED TO AN EMERGENCY POWER SYSTEM PROVIDED FROM STORAGE BATTERIES, UNIT EQUIPMENT OR AN ON SITE GENERATOR. THE INSTALLATION OF THE EMERGENCY POWER SYSTEM SHALL BE IN ACCORDANCE WITH SECTION 604.
4. EXISTING KITCHEN & BUSINESS AREA TO REMAIN. 2" STUD FRAMING @ 16" O.C. WITH 5/8" TYPE "X" GYPSUM, AT INTERIOR SIDE AND 7/8" X 6 IN THICK STUCCO SEAM AT EXTERIOR SIDE
5. NEW 3/4 METAL STUD FRAMING @ 16" O.C. WITH 2" GYPSUM WALL BOARD @ BOTH SIDES
6. SPARE
7. SPARE
8. CUSTOM BUILT DECK CABINETS WITH SHELVES AND DRAWERS PER INTERIOR ELEVATIONS. INSTALL OR MAKE 2" HIGH TOE KICK / CABINET BASE
9. 2" DIA METAL LEG IN EXTERIOR. CAP OR PLUGS FOR POWDER AND FOOD COATED TO PLAN #8
10. SPARE
11. DOOR PER DOOR SCHEDULE
12. EXISTING STOREFRONT SYSTEM TO BE REMAIN WITH NEW PER PLAN. REFER TO WINDOW AND DOOR SCHEDULE FOR ADDITIONAL INFORMATION
13. SPARE
14. EQUIPMENT PER EQUIPMENT FLOOR PLAN AND EQUIPMENT SCHEDULE
15. ACCESSIBLE LAVATORY TO BE INSTALLED PER SHEET D-200
16. ACCESSIBLE WATER CLOSET TO BE INSTALLED PER SHEET D-200
17. ELECTRICAL DRINK TO BE INSTALLED PER SHEET D-100
18. GRAB BAR PER SHEET D-200
19. NEW 50 GAL ELECTRIC DRAW FOR MEDICAL WATER HEATER. SECURE TO WALL WITH SEISMIC STRAPS. SEE ST UPPER LEVEL & SEE ST LOWER LEVEL
20. SPARE

FLOOR PLAN SYMBOLS

T — TACTILE EXIT SIGN TO COMPLY WITH 2022 CBC SECTION 11B-703.5.1 & 703.4 AND SHALL BE IN ACCORDANCE WITH 2022 CBC SECTION 216.4

AE — ACCESSIBLE ENTRANCE SIGNAGE PER 2022 CBC CHAPTER 11B

EH — EXAMPLE FACE HARDWARE

INTERNALLY ILLUMINATED EXIT SIGN TO BE CONNECTED TO EMERGENCY POWER SOURCE OR BACK UP GENERATOR CAPABLE OF PROVIDING POWER FOR A DURATION OF NOT LESS THAN 90 MIN. REFER TO ELECTRICAL PLANS

INTERNALLY ILLUMINATED 8 X 12 EXIT SIGN TO BE CONNECTED TO EMERGENCY POWER SOURCE OR BACK UP GENERATOR CAPABLE OF PROVIDING POWER FOR A DURATION OF NOT LESS THAN 90 MIN. REFER TO ELECTRICAL PLANS

36" X 36" MIN CLEAR — INDICATES REQUIRED CLEAR MANEUVERING FLOOR SPACE AT DOOR WAYS

AA — WINDOW PER WINDOW SCHEDULE. SEE SHEET A-005 FOR WINDOW SCHEDULE

G1 — DOOR NUMBER PER DOOR SCHEDULE. REFER TO SHEET A-005 FOR DOOR SCHEDULE

FEC — FIRE EXTINGUISHER CABINET

ROOM NAME — ROOM NAME

1 HR — INDICATES WALL TYPE - REFER WALL TYPE LEGEND

WALL SYMBOL LEGEND

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TENANT IMPROVEMENT - KITCHEN RESTAURANT

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FLOOR PLAN
CALL -OUTS

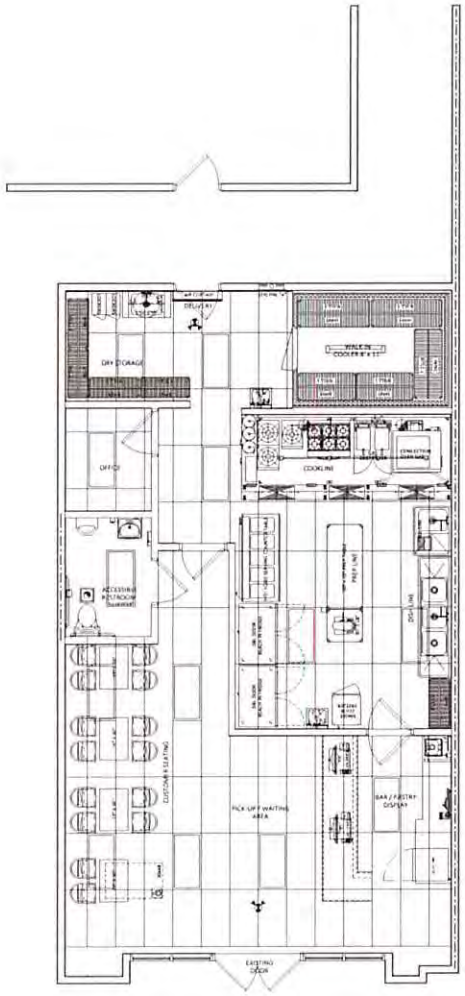
SHEET #

A-405

NO: 01 OF 100

NOTE

REFER TO SHEET A.501 FOR EQUIPMENT LIST AND SPECS
REFER TO SHEET A.510 FOR ELECTRICAL ROUGH IN
REFER TO SHEET A.515 FOR PLUMBING ROUGH IN



RELECTED CEILING PLAN | SCALE 1/4"=1'-0" | 1

N

STANDARD APPLICATION GUIDE - SIESMIC CATAGORY D, E, F

MISC. COMPUTERIZED, PRESSURE, AND LITHIUM SPLAT BRACING — REQ

- SIGN INSTALLATION STRENGTH LIMITS @ 4PSF — 180 MIL
- CONNECTION OF PLUG VERTICAL WIRE TO STRUCTURE ABOVE 8 NOT SUSTAIN SIGN DEAD — REQUIRED
- CONNECTION OF PLUG VERTICAL WIRE TO STRUCTURE ABOVE 8 NOT SUSTAIN SIGN DEAD — REQUIRED
- MAIN TEE CLASSIFICATION — T-1
- 1 IN 1 SIDE PLUG IN VERTICAL HANGER WIRES — REQUIRED
- PERIMETER (EXT. HANGER WIRES NOT HERE THAN 8" FROM WALL — REQUIRED
- LAYS ON / WALL CLEARANCE — NONE
- PERIMETER CLOSURE (BALCONY) LENGTH — 1000 T
- LOAD CONNECTION TO PERIMETER BRACING — REQUIRED
- ON THE PERIMETER WALL — REQUIRED
- ALL PARTS ARE TIED TOGETHER — REQUIRED
- HUNG BETWEEN (SPLAY WIRES) OR BOLTED BRACING(WITHIN 1" OF INTERSECTION AND SPLICE) — REQUIRED
- ALL HEIGHT AT 90 ANGLES — REQUIRED
- COMPRESSION POSTS (STRUTS) 12" O.C. IN BOTH DIRECTIONS STARTING FROM WALLS — REQUIRED
- SPLAY BRACING CONNECTION LUMINAIRE AND LIB. OR ON FROM THE LONG, HANGING PLUS SPLAY — REQUIRED
- STANDOFF (1 IN 1 WIRE) BRACING BRACKET OR ON CLOSING SPLAY WIRE ARM — REQUIRED
- SEISMIC SEPERATION JOINT FOR AREA OVER 2,500 SQ. FT OR FULL HEIGHT PARTITION — REQUIRED
- PLUG WALL PLUS (SEAL) PLUG ELEVATION CHANGES — REQUIRED

LIGHT FIXTURE ATTACHMENT

- LIGHT FIXTURE ATTACHMENT (ALL TYPES) MECHANICALLY ATTACHED TO GRID AND NOT SUSPENDED — REQUIRED
- CEILING NEAR LIGHTING (WALLS, MOUNTING ETC.) SUPPORTED — REQ
- SUPPORT WIRES (4) CORNERS TO UNDERSIDE OF GRID — REQ
- THE STRUTS TYPE WITH 8 GAUGE WIRE (OR APPROVED ALTERNATIVE) — REQUIRED
- ROUND LIGHT ON (OR LIGHT FIXTURES GREATER THAN 20 LBS) ONE WIRE TO STRUCTURE — REQUIRED
- 11 TO 14 LBS. TWO WIRES TO STRUCTURE (1 WIRE @ EACH 180 DEG) — REQUIRED
- GREATER THAN 15 LBS. SUPPORTED DIRECTLY TO STRUCTURE BY APPROVED METHOD — REQUIRED

SUSPENDED CEILING NOTES

1. SUSPENDED NON-STRUCTURAL CEILING SYSTEM SHALL BE INSTALL IN ACCORDANCE WITH PROVISIONS OF ASTM C635, ASTM C636 AND ASTM C840 AND MANUFACTURER SPECIFICATIONS AND INSTALLATION INSTRUCTION.
2. THE MAIN RUNNER AND CROSS RUNNER OF SUSPENDED CEILING PRODUCTS SHALL BE WIDER THAN THE MAIN LIMIT SYSTEM

SUSPENDED CEILING
CHG SUSPENDED T BAR CEILING SYSTEM AS PER 2010 CBC APPROVED LIST
SUSPENDED CEILING SPECIAL INSPECTION REQUIRED FOR SEISMIC DESIGN

EMERGENCY LIGHTING NOTES

THE AREAS OF EXITS SERVING A BUILDING OR SPACE SHALL BE ILLUMINATED AT ALL TIMES THAT THE BUILDING OR SPACE IS OCCUPIED. 2010 CBC 1008.1

THE EMERGENCY POWER SYSTEM SHALL PROVIDE POWER FOR A DURATION OF NOT LESS THAN 90 MINUTES AND SHALL CONSIST OF STORAGE BATTERIES, UNIT EQUIPMENT OR AN ON-SITE GENERATOR. THE INSTALLATION OF THE EMERGENCY POWER SYSTEM SHALL BE IN ACCORDANCE WITH SECTION 2.6 CBC 1006.3.4

PATH MARKER LIGHTING FIXTURES SHALL BE ARRANGED TO PROVIDE AN INITIAL ILLUMINATION THAT IS NOT LESS THAN AN AVERAGE OF 1 FOOT CANDLE (11 LUX) AND A MIN AT ANY POINT OF 0.1 FOOT CANDLES (1.0 LUX) ALONG THE PATH OF EGRESS AT FLOOR LEVEL. ILLUMINATION LEVELS SHALL BE PERMITTED TO DECLINE TO A 0 FOOT CANDLE (0 LUX) AVERAGE AND 0.1 MIN AT ANY POINT OF 0.1 FOOT CANDLES (1.0 LUX) AT THE END OF THE EMERGENCY LIGHTING TIME DURATION. A MAXIMUM 10 MIN LIGHTING UNIFORMITY OF 40 TO 1 SHALL NOT BE EXCEEDED. 2010 CBC 1008.2.3

EXITS AND EXIT ACCESS DOORS SHALL BE MARKED BY AN APPROVED EXIT SIGN READILY VISIBLE FROM ANY DIRECTION OF EGRESS TRAVEL. THE PATH OF EGRESS TRAVEL TO EXITS AND WITHIN EXITS SHALL BE MARKED BY READILY VISIBLE EXIT SIGNS TO ELIMINATE THE DIRECTION OF TRAVEL TO EXITS AND WITHIN EXITS WHERE THE PATH OF EGRESS TRAVEL IS NOT IMMEDIATELY VISIBLE. THE INTERVAL BETWEEN SIGNS OF EGRESS LOCATED WITHIN EXITS SHALL BE MARKED BY EXIT SIGNS. EXIT SIGN PLACEMENT SHALL BE SUCH THAT NO POINT IN AN EXIT ACCESS CORRIDOR OR EXIT ACCESS WAY IS MORE THAN 100 FEET (30 480 MM) OR THE LISTED VIEWING DISTANCE FOR THE SIGN, WHICHEVER IS LESS, FROM THE NEAREST VISIBLE EXIT SIGN. 2010 CBC 1013.1

EXTERIOR LIGHTING CIRCUITRY REQUIRED TO OPERATE DURING DARKNESS SHALL NOT BE CONNECTED TO A SWITCH. THE OPERATION SHALL BE AUTOMATIC AT DUSK/DAWN.

MECHANICAL NOTES

NOTE
ROOF MOUNTED EQUIPMENT SHALL BE LABELED AS TO THE SPACE IT SERVES

ALL APPLIANCE AND PLUMBING VENTS AND THE DISCHARGE OUTLET OF EXHAUST FANS SHALL BE AT LEAST 10 FEET IN A HORIZONTAL DIRECTION OR 3 FEET ABOVE THE OUTLOOK AIR INTAKES FOR AC UNITS. CMC 501.2.1

HEATING, VENTILATING AND AIR CONDITIONING SYSTEMS SHALL BE DESIGNED IN ACCORDANCE WITH AN APPROVED METHOD PER SECTION 304.1 OF THE CALIFORNIA MECHANICAL CODE

FOR ALL TYCSPOT AREAS OF THE BUILDING THAT ARE MECHANICALLY VENTILATED, PROVIDE FILTERS FOR ALL OUTSIDE AND RETURN AIR HAVING A MINIMUM EFFICIENCY REPORTING VALUE (MERV) OF AT LEAST 13

AT THE TIME OF BUILDING INSTALLATION, OR DURING STORAGE ON THE CONSTRUCTION SITE AND UNTIL FINAL START-UP OF THE HEATING, COOLING AND EVAPORATIVE EQUIPMENT, ALL DUCT AND OTHER AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEET METAL OR OTHER ACCEPTABLE METHODS TO REDUCE THE AMOUNT OF DUST, WATER, AND DEBRIS WHICH MAY ENTER THE SYSTEM. CAL GREEN 5.504.3

AIR CONDITIONING REFRIGERANT CIRCUIT ACCESS PORTS LOCATED OUTDOORS SHALL BE PROTECTED FROM UNAUTHORIZED ACCESS. CMC 1307.10

AIR MOVING SYSTEMS SUPPLYING AIR IN EXCESS OF 2000 CFM SHALL BE EQUIPPED WITH AN AUTOMATIC SHUTOFF ACTUATED BY A SMOKE DETECTOR LOCATED IN THE MAIN SUPPLY AIR DUCT. A SYSTEM MAY NOT CONTAIN MORE THAN ONE FILTER AC UNIT SHALL BE SERVED IN SERIES A COMMON SPACE WITH BUILDING SUPPLY AIR OF VALUE THAN 2000 CFM. CMC 608.1

CONDENSATE DRAIN LINES SHALL BE CONTRUCTED OR PROVIDED WITH A CLEAN OUT TO PERMIT THE CLEANING OF BLOCKAGES AND FOR MAINTENANCE WITHOUT REQUIRING THE DRAIN LINE TO BE CUT. CMC 307.2.1

REFLECTED CEILING PLAN SYSMBOLS

EXHAUST FAN INFORMATION

SYMBOL	TAG	LOCATION	DESCRIPTION
	EF-1	RESTROOM	BROAN MODEL LIGHING COMMERCIAL GRADE EXHAUST FAN CAPABLE OF MIN 5 AIR CHANGES PER HOUR, MIN 80 CFM VENT TO OUTSIDE WITH TIMMER 3 SW / 110W

LIGHTING LEGEND

SYMBOL	TAG	LOCATION	DESCRIPTION
	LT-01	THROUGHOUT	2' X 2' ALTHERA DESIGN TRI VOLUMETRIC TROFFER LED DROP IN SUSPENDED CEILING LIGHT WITH PROTECTIVE COVER CONNECTED TO TENANT POWER
	LT-02	RESTROOM	6" RECESSED LED CAN LIGHT LITHONIA LIGHING - LDR6 35 30 MVOLT SZ10 WHG CONNECTED TO TENANT POWER
	LT-03	EXTERIOR	8" EXTERIOR LED DOWN LIGHT WITH GASKEL FROST COVER LITHONIA LIGHTING - LDW 35 30 MVOLT SZ10 WHG CONNECTED TO TENANT POWER
	LT-04	WALK IN COOLER	4' X 8' 12' VAPOR PROOF CEILING MOUNT LIGHT FIXTURE INSIDE WALK IN COOLER CONNECTED TO TENANT POWER

EGRESS LEGEND

SYMBOL	TAG	LOCATION	DESCRIPTION
	EXIT-1	EXIT DOOR / PATH OF TRAVEL	INTERNALLY ILLUMINATED EXIT SIGN TO BE CONNECTED TO EMERGENCY POWER SOURCE OR BACK UP GENERATOR CAPABLE OF PROVIDING POWER FOR A DURATION OF NOT LESS THAN 90 MIN. REFER TO ELECTRICAL PLANS (...) DIRECTION OF EGRESS

REFLECTED CEILING PLAN SYMBOLS

8'-0"	CEILING HEIGHT FROM FINISHED FLOOR SEE PLAN FOR INFORMATION AT EACH AREA

SYMBOL	TAG

REFLECTED CEILING PLAN SYMBOLS

	LOCATION	DESCRIPTION
	THROUGHOUT	2' X 4' 4' SUSPENDED LAY IN ACCOUSTICAL CEILING TILE BY ARMSTRONG
	RESTROOM	5/8" GYPSUM DRYWALL CEILING WITH SMOOTH FINISH AND SEAM BLUSH PAINT
	WALK IN COOLER	PREFABRICATED DALTALAM WALK IN COOLER CEILING

ROOF SYMBOL LEGEND

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PROJECT TITLE
VICKY'S BUBBLY CAFE
TENANT IMPROVEMENT - KITCHEN RESTAURANT

PROJECT ADDRESS
14782 CRENSHAW, GARDENA CA, 90250

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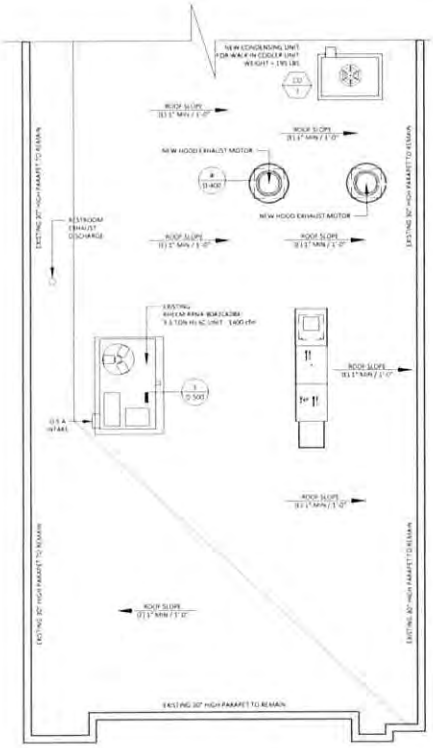
SHEET #
A-410

NO. 01 OF 100



ROOF PLAN SCALE 1/8" = 1'-0" 1

N

HVAC UNIT PER MECHANICAL PLANS. REFER TO M-SHEETS FOR ADDITIONAL INFORMATION

WALK IN COOLER CONDENSER

WALK IN COOLER CONDENSER TO BE INSTALLED PER MANUFACTURES SPECIFICATIONS

LANDLORD CONSTRUCTION NOTES

ALL FIRE ALARM AND FIRE SPRINKLER WORK TO BE PERFORMED BY LANDLORD APPROVED CONTRACTOR

ALL ROOFING WORK TO BE PERFORMED BY LANDLORD APPROVED CONTRACTOR

CONTRACTOR MUST HAVE INSURANCE ON FILE WITH LANDLORD PRIOR TO MOBILIZATION

CONTRACTOR SHALL PROVIDE COPY OF BUILDING PERMITS TO LANDLORD

ANY CHANGE IN (RTU) MECHANICAL EQUIPMENT WITH A TOTAL WEIGHT IN EXCESS OF 400 LBS REQUIRE STRUCTURAL CALCULATIONS AND DETAILS FOR SUPPORT AND ANCHORING. SUBMIT STRUCTURAL PLANS TO LANDLORD AND BUILDING DEPT FOR REVIEW

MECHANICAL NOTES

NOTE:
ROOF MOUNTED EQUIPMENT SHALL BE LABELED AS TO THE SPACE IT SERVES

ALL APPLIANCE AND PLUMBING VENTS AND THE DISCHARGE OUTLET OF EXHAUST FANS SHALL BE AT LEAST 10 FEET IN A HORIZONTAL DIRECTION OF STEET ABOVE THE OUTSIDE AIR INTAKES FOR HVAC UNITS (MC 306.5.1)

HEATING, VENTILATING AND AIR CONDITIONING SYSTEMS SHALL BE BALANCED IN ACCORDANCE WITH AN APPROVED METHOD PER SECTION 314.1 OF THE CALIFORNIA MECHANICAL CODE

FOR ALL OCCUPIED AREAS OF THE BUILDING THAT ARE MECHANICALLY VENTILATED, PROVIDE FILTERS FOR ALL OUTSIDE AND RETURN AIR HAVING A MINIMUM EFFICIENCY REPORTING VALUE (MERV) OF AT LEAST 13.

AT THE TIME OF ROUGH INSTALLATION, OR DURING STORAGE ON THE CONSTRUCTION SITE AND UNTIL FINAL START-UP OF THE HEATING, COOLING AND VENTILATING EQUIPMENT, ALL DUCT AND OTHER AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEET METAL, OR OTHER ACCEPTABLE METHODS TO REDUCE THE AMOUNT OF DUST, WATER, AND DEBRIS WHICH MAY ENTER THE SYSTEM. CAL GREEN 5.504.3

AIR CONDITIONING REFRIGERANT CIRCUIT ACCESS PORTS LOCATED OUTDOORS SHALL BE PROTECTED FROM UNAUTHORIZED ACCESS. (MC 108.1)

AIR MOVING SYSTEMS SUPPLYING AIR IN EXCESS OF 2000 CFM SHALL BE EQUIPPED WITH AN AUTOMATIC SHUTOFF ACTUATED BY A PHOTO DETECTOR LOCATED IN THE MAIN SUPPLY AIR DUCT. A SYSTEM MAY INCLUDE MORE THAN ONE PIECE OF AC UNIT WHICH SERVES A COMMON SPACE WITH ADEQUATE SUPPLY AIR OF MORE THAN 2000 CFM. (MC 306.7)

CONDENSATE DRAIN LINES SHALL BE CONFIGURED OR PROVIDED WITH A CLEAN OUT TO PERMIT THE CLEARING OF BLOCKAGES AND FOR MAINTENANCE WITHOUT REQUIRING THE DRAIN LINE TO BE CUT. (MC 918.5)

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ROOF PLAN

SHEET #
A-415

NO. 01 OF 100

EQUIPMENT LIST / SPECIFICATIONS

FIXTURE AND EQUIPMENT							ELECTRICAL							PLUMBING					
							ELECTRICAL LOAD							WATER					
NO.	QTY	ITEM NAME	MFG. & MODEL NO.	SUPPLIER	INSTALLER	MOUNTING HEIGHT	COMMENTS	VOLTS/PHASE	H.P.	K.W.	AMPS	CONN TYPE	COMMENTS	HOT	COLD	WASTE	B.T.U. (1000)	GAS CONN	COMMENTS
01		SOLID SURFACE COUNTER TOP CLEANER STONE	CESAR STONE WHITE	F.B.E.C.	G.C.	C.T.													
02		PREP SINK	DOM USA MODEL BS18TR3R1	F.B.E.C.	G.C.	LEGS								1/2	1/2	1-1/2" (1) w			DRAIN TO F.B.
03		RANGE STOCK POT 18 INSTOCKPT	AMERICAN RANGE MODEL ARSP-18	F.B.E.C.	G.C.	LEGS		120/240 V		-	3						90	3/4"	DUNKIRT GAS CONNECTIONS
04		3 COMPARTMENT SINK 96 SB DROP SINKTR	DOM USA MODEL SHR18TR3W	F.B.E.C.	G.C.	LEGS								1/2	1/2	1-1/2"			1-1/2" DIRECT
05		PREP SINK 24 INSTOCKPT	DOM USA MODEL BS24TR1R	F.B.E.C.	G.C.	FLR.								1/2	1/2	1"			
06		RANGE STOCK POT 18 INSTOCKPT	AMERICAN RANGE MODEL ARSP-18-2	F.B.E.C.	G.C.	LEGS		120/240 V			3		GAS FOR				180	3/4"	DUNKIRT GAS CONNECTIONS
07		EMPLOYEE LOCKERS 12 INSTOCKPT-5 TIER	DOM USA 6LS 60R	F.B.E.C.	G.C.	LEGS													
08		HOT FOOD SERVING COUNTER-TABLE	SUPE ALKONOT MBR36	F.B.E.C.	G.C.	LEGS		120/480 V		2.8	20.4	CORD	NEMA L5-30						
09		PLANETARY DOUGH MIXER	BOWRAL CRAFT 80QT MODEL BOPM-80	F.B.E.C.	G.C.			220/480 V	1	2.2	10.3	CORD	NEMA 6-20P						
10		WIRE SHELVING 24 WIRES - 5 TIER	REGENCY	F.B.E.C.	G.C.	CEILING													
11		WORK TABLE - S.S. TOP 30" W x 72" L	DOM USA MODEL CTO-3072S	F.B.E.C.	G.C.	LEGS													
11A		WALL MOUNTED SHELVING	DOM USA MODEL SHT18R3R1	F.B.E.C.	G.C.	WALL													
12		MOP CUSTOM BUILT CABINETS (WHITE)		F.B.E.C.	G.C.	FLR.													
13		GAS FLOOR FRYER 40 POINTSAVER SMT	PITCO FRIALATOR SG-14 S	F.B.E.C.	G.C.	LEGS											110	3/4"	DUNKIRT GAS CONNECTIONS
14		HD RANGE 36" 6 BURNERS 36" WIDE KITCHEN	AMERICAN RANGE MODEL AR-6	F.B.E.C.	G.C.	C.T.											207	3/4"	DUNKIRT GAS CONNECTIONS
15	1	TYPE 1 EXHAUST HOOD 5'-0" x 14'-0" (CANOPY STYLE LED)	CAPTIVE AIR	F.B.E.C.	G.C.	CEILING	INSTALL WITH ITEM # 16 - 21, 23					DIRECT	DIRECT						
16		MAKE UP SYSTEM	CAPTIVE AIR	G.C.	G.C.	WALL													
20	2	EXHAUST FAN LOCATED ON ROOF PER MECH. PLANS	CAPTIVE AIR	G.C.	G.C.	ROOF		208/460 V	3/4		3	DIRECT	DIRECT						
21		SUPPLY FAN LOCATED ON ROOF PER MECH. PLANS	CAPTIVE AIR	G.C.	G.C.	ROOF		208/460 V	1 3/4		9.2	DIRECT	DIRECT						
22		MAKE UP AIR STATION	CAPTIVE AIR	G.C.	G.C.	WALL													
23		WIRE SHELVING 24 WIRES - 5 TIER	REGENCY	F.B.E.C.	G.C.	CEILING													
24		DROP IN DUMP SINK	ADVANCE TABCO	F.B.E.C.	G.C.	LEGS								1/2	1/2	2-1/2 w			2" DIRECT
25	4	BALANCING BOULEVE 36" WIDE KITCHEN	EMPURA MODEL 6-0288-36	F.B.E.C.	G.C.	CEILING											36	3/4"	
26		REACH IN REFRIGERATOR UNDER COUNTER				CEILING		115/60/1	-		5	CORD	NEMA 5-15P						
27		REACH REFRIGERATOR DBL DOOR	TURBO AIR MODEL M3F-48			CEILING		115/60/1	1/2		7.5	CORD	NEMA 5-15P						
28		HAND SINK 16" x 14" (STOCK CUSTOM)	DOM USA MODEL HS-4R-SS	F.B.E.C.	G.C.	WALL								1/2	1/2	1-1/2"			1-1/2" DIRECT
29		REACH IN FREEZER SINGLE DOOR	TURBO AIR MODEL EBF1	F.B.E.C.	G.C.	CEILING		115/60/1	1		5	CORD	NEMA 5-15P						
30		REACH REFRIGERATOR DBL DOOR	TURBO AIR MODEL EBR2	F.B.E.C.	G.C.	CEILING		115/60/1	1/2		5	CORD	NEMA 5-15P						
31		WIRE SHELVING 18" x 48" CHROME NSF	REGENCY HDLCT1848	F.B.E.C.	G.C.	CEILING													
32		5 S CHEMICAL SHELF	REGENCY 5SHH1836	F.B.E.C.	G.C.	WALL													
33		MOP SINK	DOM USA MODEL BS18R3R1	F.B.E.C.	G.C.	WALL													
34		DRY WIRE SHELVING 18" x 54" (STOCK CUSTOM) NSF	REGENCY MBS1854N4	F.B.E.C.	G.C.														
35		AIR CURTAIN	MARS STORM TUF 108 W DOOR SWITCH	F.B.E.C.	G.C.	WALL		120/208/1 PH			0.7	CO							
36		CONVECTION OVEN	AMERICAN RANGE MODEL M-1	F.B.E.C.	G.C.	LEGS		120/240/1 PH			4	CO							
37		POT FILL FAUCET	T&S BRASS B-0140	F.B.E.C.	G.C.	WALL								1/2"	1/2"				
38		VACUUM BREAK FAUCET	T&S BRASS B-0140-CR-PCH	F.B.E.C.	G.C.	WALL								1/2"	1/2"				
39		PRE RINSE FAUCET	T&S BRASS B-0730 ADF1-5-B	F.B.E.C.	G.C.	WALL								1/2"	1/2"				
40		POINT OF SALE SYSTEM		F.B.E.C.	G.C.	C.T.		115/60/1				CORD	NEMA 5-15P						
41		RECEIPT PRINTER		F.B.E.C.	G.C.	C.T.		115/60/1				CORD	NEMA 5-15P						
42		ACCESSIBLE WALL MOUNT LAVATORY	AMERICAN STANDARD ADA APPROVED	G.C.	G.C.	WALL								1/2	1/2	1-1/2"			
43		ACCESSIBLE WATER CLOSET	AMERICAN STANDARD ADA APPROVED	G.C.	G.C.	FLR.									1/2	1-1/2"			
44		ACCESSIBLE URINAL	AMERICAN STANDARD ADA APPROVED	G.C.	G.C.	WALL									3/4"	1-1/2"			
45		36" ACCESSIBLE GRAB BAR	AMERICAN STANDARD ADA APPROVED	G.C.	G.C.	WALL													
46		42" ACCESSIBLE GRAB BAR	AMERICAN STANDARD ADA APPROVED	G.C.	G.C.	WALL													
47		36" x 18" RESTROOM PRIVACY SCREEN PARTITION		G.C.	G.C.	WALL													
48		WALK IN COOLER BOX 8'-0" x 14'-0" x 8'-0" HC	THE WALK-INCOOL NSF APPROVED			FLR.													
47		COOLER CONDENSER UNIT - 230 VALTOR OF COOLER BOX	BLUEZIC R410 AER BOX			ROOF		208/230/1			16.4	DIRECT							
48		COOLER EVAPORATOR FAN	NORDIC R-34R3M2CR			CEILING		115/60/1			0.2 w	CO				3/4"	1.0 w		CONDENSATE DRAIN TO FE BY PLUMBING CONTRACTOR

PROJECT INFORMATION

PROJECT NAME	VICKY'S BUBBLY CAFE
JOB ADDRESS	14782 CRENSHAW GARDENA CA 90250
TENANT	VICKY'S BUBBLY CAFE 14782 CRENSHAW GARDENA CA 90250
PROPERTY OWNER	CRENSHAW PLAZA 14782 CRENSHAW BLVD GARDENA, CA 90249
ZONING	C 3 COMMERCIAL
CONST. TYPE	V-B (NON-SPRINKLERED)
FIRE ALARM TYPE	NONE
NO OF STORIES	1 (SINGLE) (EXISTING TO REMAIN / NO CHANGE)
OCCUPANCY	"B" (RESTAURANT UNDER 50 OCCUPANTS)
PREVIOUS OCCUPANCY	"B" OFFICE
AREA SEPARATION	"B" OCCUPANCY - "B" OCCUPANCY = 1 HR REQUIRED TENANT SPACE - ADJACENT TENANT
APN #	4094 013 021

LEGAL DESCRIPTION

TR=12682 EX OF ST LOTS 14 THRU 19 AND S 41 FT EX OF ST OF LOT 20

LOT SIZE 57,288 SQ FT

TENANT IMPROVEMENT AREA 1,282 SQ FT

SCOPE OF WORK

TENANT IMPROVEMENT TO BUILD OUT A KITCHEN RESTAURANT IN AN EXISTING SINGLE STORY COMMERCIAL BUILDING

APPLICABLE CODES

ALL NEW WORK SHALL CONFORM TO ALL APPLICABLE BUILDING CODES TO THE LATEST RELEASE

2022 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE
2022 CALIFORNIA BUILDING CODE - TITLE 24 PART 2
2022 CALIFORNIA EXISTING BUILDING CODE
2022 CALIFORNIA MECHANICAL CODE - TITLE 24, PART 4
2022 CALIFORNIA PLUMBING CODE - TITLE 24 PART 5
2022 CALIFORNIA ELECTRICAL CODE - TITLE 24 PART 3
2022 CALIFORNIA FIRE CODE
2022 CALIFORNIA ENERGY CODE - TITLE 24 PART 6
2022 CALIFORNIA GREEN BUILDING STANDARDS CODE
HOME DEPOT NATIONAL MANDATORY MEASURES - TITLE 24 PART 11
2022 NATIONAL FIRE PROTECTION ASSOCIATION (NFPA 13)
2022 CALIFORNIA RETAIL FOOD CODE

SHEET INDEX

REVISION	SHEET NO.	SHEET TYPE	SHEET DESCRIPTION
	A-001	A	EQUIPMENT SCHEDULE / FINISH SCHEDULE
	A-002	A	FOOD SERVICE / HEALTH DEPT. NOTES
	A-100	A	EQUIPMENT FLOOR PLAN
	A-110	A	ELECTRICAL REFLECTED PLAN
	A-115	A	PLUMBING REFLECTED PLAN
	A-120	A	FLOOR FINISH PLAN
	A-130	A	BASE SURFACE FINISH PLAN

ROOM FINISH SCHEDULE

ROOM	FLOOR	COVE BASE	WALL				CEILING	SOLID SURFACE
			NORTH	SOUTH	WEST	EAST		
ROOM NAME	FINISH	FINISH	MAT	MAT	MAT	MAT	FINISH	
DINING AREA	SC-1	4" HIGH CB-1	PNT-1 TO 96" AFF SHW-1 / SCP-1 ABOVE	PNT-1 TO 96" AFF SHW-1 / SCP-1 ABOVE	PNT-1 TO 96" AFF SHW-1 / SCP-1 ABOVE	PNT-1 TO 96" AFF SHW-1 / SCP-1 ABOVE	EXPOSED RAFTER CEILING SHALL BE PAINTED WITH BLACK SCRIM. DINING AREA ONLY	CT-1 CARRARA MARBLE - WHITE
RESTROOMS	SC-1	4" HIGH CB-1	PT-1 TO 48" AFF SHW-1 / SCP-1 ABOVE	PT-1 TO 48" AFF SHW-1 / SCP-1 ABOVE	PT-1 TO 48" AFF SHW-1 / SCP-1 ABOVE	PT-1 TO 48" AFF SHW-1 / SCP-1 ABOVE	SHW-2 - WITH SPG-1 - SEMI GLOSS PAINT SMOOTH, DURABLE, EASILY CLEANABLE	
DISHLAND	SC-1	4" HIGH CB-1	PNT-1 TO 96" AFF SHW-1 / SCP-1 ABOVE	PNT-1 TO 96" AFF SHW-1 / SCP-1 ABOVE	PNT-1 TO 96" AFF SHW-1 / SCP-1 ABOVE	PNT-1 TO 96" AFF SHW-1 / SCP-1 ABOVE	VCT - 24" X 48" VINYL COATED CEILING TILES. SMOOTH, DURABLE, EASILY CLEANABLE	
COLD STORAGE	SC-1	4" HIGH CB-1	PNT-1 TO 96" AFF SHW-1 / SCP-1 ABOVE	PNT-1 TO 96" AFF SHW-1 / SCP-1 ABOVE	PNT-1 TO 96" AFF SHW-1 / SCP-1 ABOVE	PNT-1 TO 96" AFF SHW-1 / SCP-1 ABOVE	VCT - 24" X 48" VINYL COATED CEILING TILES. SMOOTH, DURABLE, EASILY CLEANABLE	
DRY STORAGE	SC-1	4" HIGH CB-1	PNT-1 TO 96" AFF SHW-1 / SCP-1 ABOVE	PNT-1 TO 96" AFF SHW-1 / SCP-1 ABOVE	PNT-1 TO 96" AFF SHW-1 / SCP-1 ABOVE	PNT-1 TO 96" AFF SHW-1 / SCP-1 ABOVE	VCT - 24" X 48" VINYL COATED CEILING TILES. SMOOTH, DURABLE, EASILY CLEANABLE	
PREP LINE	SC-1	4" HIGH CB-1	PNT-1 TO 96" AFF SHW-1 / SCP-1 ABOVE	PNT-1 TO 96" AFF SHW-1 / SCP-1 ABOVE	PNT-1 TO 96" AFF SHW-1 / SCP-1 ABOVE	PNT-1 TO 96" AFF SHW-1 / SCP-1 ABOVE	VCT - 24" X 48" VINYL COATED CEILING TILES. SMOOTH, DURABLE, EASILY CLEANABLE	
COOK LINE	SC-1	4" HIGH CB-1					VCT - 24" X 48" VINYL COATED CEILING TILES. SMOOTH, DURABLE, EASILY CLEANABLE (AS TO BEST OF HOOD)	
MOP SINK AREA	SC-1	4" HIGH CB-1	PNT-1 TO 96" AFF SHW-1 / SCP-1 ABOVE	PNT-1 TO 96" AFF SHW-1 / SCP-1 ABOVE	PNT-1 TO 96" AFF SHW-1 / SCP-1 ABOVE	PNT-1 TO 96" AFF SHW-1 / SCP-1 ABOVE	VCT - 24" X 48" VINYL COATED CEILING TILES. SMOOTH, DURABLE, EASILY CLEANABLE	

FINISHES DESCRIPTION LEGEND

FLOOR FINISH

SC-1 SEALED CONCRETE - USE POSTER SUN BETE PENETRATING SEALER - MEDIUM GRIT TEXTURE ALLOWED IN KITCHEN AND WALK WAY AREAS ONLY

COVE BASE

CB-1 SAME TILE TOP SET 4" HIGH SLING FOOT SANITARY COVE BASE TILE WITH MINI 2 RADIUS

WALL FINISH

SHW-1 3/8 TYPE "X" GYPSUM WALL BOARD, SMOOTH FINISHED & PAINTED. COLOR TO BE SELECTED BY OWNER

SHW THIN REINFORCED PLASTIC, 1/16" THICK, SMOOTH, DURABLE, EASILY CLEANABLE AND 70% LIGHT REFLECTIVE

SS-1 18 GA. 304 STAINLESS STEEL WALL PANELING WITH SMOOTH FINISH

CT-1 12" X 12" PORCELAIN WALL TILE TO MIN 48" AFF

MT-1 3 X 6" CERAMIC SUBWAY TILE (WHITE) INSTALLED WITH MAP & GROUT JOINT. INSTALL USING THINSET MORTAR

CEILING FINISH

SHW-2 3/8 TYPE "X" GYPSUM WALL BOARD, SMOOTH FINISHED & PAINTED WITH SEMI-GLOSS OR HIGH GLOSS PAINT. SEE SCP-1 OR SCP-2 FOR COLOR

VCT-1 VINYL COATED GYPSUM LAY IN CEILING TILES WITH SMOOTH, DURABLE, EASILY CLEANABLE AND 70% LIGHT REFLECTIVE FINISH. ARMSTRONG - CLEAN ROOM XL - SYSTEM CEILING TILES - HEALTH DEPT APPROVED

EXP-1 EXPOSED RAFTERS CEILING IN DINING AREA ONLY - RAFTERS TO BE COVERED WITH BLACK SCRIM FABRIC

PAINT FINISHES

SCP-1 TURE WHITE INTERIOR SEMI-GLOSS PAINT BY "SHERWIN WILLIAMS" OR BENJAMIN MOORE

SOLID SURFACES

CT-1 CARRARA MARBLE / SOLID SURFACE COUNTER TOPS - INSTALL ON MIN 3/4" PLYWOOD SUBTOP USING LIQUID NAIL ADHESIVE

CABINETRY

WC-1 CUSTOM BUILT SOLID WOOD STAINED OR (MDF) MEDIUM DENSITY FIBER BOARD WITH WHITE LAMINATE FINISH. SMOOTH, DURABLE, EASILY CLEANABLE AND MIN 70% LIGHT REFLECTIVE

NOTE: ALL CABINETRY SHALL BE SMOOTH, DURABLE, EASILY CLEANABLE AND 70% LIGHT REFLECTIVE. ALL CABINETRY SHALL BE LIGHT IN COLOR

HEALTH DEPARTMENT NOTES

1. SLIM FOOT BASE TILE MAY ONLY BE USED ON SEALED CONCRETE
2. ALL PAINT MUST BE SEMI-GLOSS, SMOOTH, EASILY WASHABLE AND 70% LIGHT REFLECTIVE VALUE
3. ALL WALLS AND CEILING IN WALK IN COOLER MUST BE SAN LAMINATED ALUMINUM
4. BATHROOM AND THE REAR EXTERIOR DOORS MUST BE SELF CLOSING TYPE
5. TRASH ENCLOSURE AREA MUST BE HAVE SMOOTH WASHABLE WALLS AND FLOOR
6. ALL FINISHES TO BE FROM APPROVED HEALTH DEPT. LIST AND ARE TO BE DURABLE, SMOOTH, CLEANABLE, WASHABLE, NON-ABSORBENT & 70% LIGHT REFLECTIVE VALUE
7. THE ABOVE PERTAINS TO THE FOLLOWING AND ADDITION TO
8. TILES, COVE BASE, CEMANT TOP SET TO BE DURABLE, NON-ABSORBENT, EASILY WASHABLE, AND BE PROVIDED AT THE JUNCTURE OF WALLS TO FLOOR
9. ALL WALLS & CEILINGS TO HAVE A SMOOTH FINISH & WASHABLE AND HAVE A LIGHT REFLECTIVE VALUE OF 70%
10. FLOORS ARE TO BE SMOOTH, DURABLE AND EASILY CLEANABLE AND SMOOTH UNDER EQUIPMENT
11. ALL LIGHTING OVER FOOD SERVICE AREAS TO BE COVERED AND OR SHATTER PROOF
12. RESTROOM VENTILATION SHALL BE CORRECTED TO RESTRAUN OCCUPANCY SENSOR WHICH CONTROLS ALL RESTROOM LIGHTING
13. AIR CURTAIN SHALL BE DOOR SWITCH ACTIVATED AND PROVIDE WITH 6 MIN. TAKE FPM
14. ALL EXTERIOR ENTRANCE / EXIT DOOR SHALL BE TIGHT FITTING AND RODENT PROOF
15. ALL EQUIPMENT INCLUDING WATER HEATER, EMPLOYEE LOCKERS, ETC SHALL BE ON 6" HIGH LEGS. CASTERS OR SOLID MASONRY ISLAND W/ MIN 3/8" RADIUS COVE BASE SEALED TO MIN 4" HIGH
16. RESTROOM FLOOR SHALL HAVE SMOOTH, HARD, NON-ABSORBENT DURABLE AND EASILY CLEANABLE SURFACE SUCH AS PORTLAND CEMENT CONCRETE, CERAMIC TILE OR OTHER APPROVED MATERIAL WHICH EXTEND UPWARD ONTO WALL AT LEAST 5"
17. THE FOLLOWING MATERIAL SHALL NOT BE USED UNDER ANY CIRCUMSTANCES - CARPET, WOOD, WOOD COVE BASE, PAINTED CONCRETE, VINYL COMPOSITION TILE (VCT), RUBBER OR VINYL TOP SET COVE BASE
18. CEILING SURFACES MUST BE SMOOTH, NONABSORBENT, DURABLE AND EASILY WASHABLE

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STAMP

LICENSED ARCHITECT MICHAEL BRICKER REG. 29637 EXP. 2-22-25 STATE OF CALIFORNIA

OWNER / TENATE

CRENSHAW PLAZA
14782 CRENSHAW BLVD
GARDENA, CA 90249
PH: (310) 717-3742

PROJECT TITLE
VICKY'S BUBBLY CAFE
TENANT IMPROVEMENT - KITCHEN RESTAURANT

PROJECT ADDRESS
14782 CRENSHAW,
GARDENA CA, 90250

REVISIONS

NO	DATE	DESCRIPTION
1		
2		
3		
4		
5		

DRAWN BY: I.J. M

CHECKED BY: I.M

PRINTED ON: FEB. 24, 2025

PERMIT NO:

TITLE
EQUIPMENT / FINISH SCHEDULE / NOTES

SHEET #
A-501

NO. 01 OF 100

ABBREVIATIONS

ABV	ABOVE	MFR	MANUFACTURER
AFF	ABOVE FINISHED FLOOR	MING	MINIMUM
AP	ACCESS PANEL	MO	MICROWAVE OPENING
ARC	ARCHITECTURAL DRAWING	MW	MIDWAY
		NATCH	NATURAL COLOR
ADJ	ADJACENT	NTS	NOT TO SCALE
ADD	ADDENDUM	OC	ON CENTER
ALT	ALTERNATE	OPP	OPPOSITE HAND
AL	ALUMINUM	OSB	ORIENTED STRAND BOARD
AB	ANCHOR BOLT	PT	PAINT
ANCH	ANCHOR	PT	PRESSURE TREATED
APPR	APPROVED	PLAS	PLASTIC
B	BASE	PLYWD	PLYWOOD
BPL	BEARING PLATE	PL	PLATE
BM	BEAM	PNL	PANEL
BET	BETWEEN	PNL	PANELING, PANELED
BLK	BLOCK	PT	PAINT
BLKG	BLOCKING	PTD	PAINTED
BLT	BUILT-UP	PTN	PARTITION
BUR	BUILT-UP ROOFING	PTS	PARTS
CAB	CABINET	PLAS	PLASTER
CPT	CARPET	PLAS LAM	PLASTIC LAMINATE
CLG	CEILING	PL	PLATE
CMU	CONCRETE MASONRY UNIT	PLT	PLATE GLASS
CONC	CONCRETE	PNG	PLYWOOD
CONT	CONTINUOUS	PT	PAINT
CJ	CONTROL JOINT	PVC	PVC PIPE
CT	CERAMIC TILE	PVC	POLYVINYL CHLORIDE
CLR	CLEAR (ANGLE)	PVC	POWER VENT, GAS & DATA
CLG	CEILING	PL	PROPERTY LINE
CLG GRID	CLG GRID		
COL	COLUMN	QT	QUARRY TILE
CONC	CONCRETE		
CMU	CONCRETE MASONRY UNIT	RAD	RADIUS
CONT	CONTINUOUS	RL	RAILING
CONSTR	CONSTRUCTION	REF	REFERENCE
CONTR	CONTRACTOR	RG	REFLECTIVE GLASS (WALL SIDE)
CONTR	CONTRACTORS	REFR	REFRIGERATOR
CJ	CORNER GUARD	RFG	ROOFING
CORR	CORRUGATED	RL	REFLECTIVE GLASS (FLOOR)
CTR	COUNTER	RTG	RETAINING WALL
		RV	REVERSE
DEMO	DEMOLISH	RV	RIGHT HAND
DET	DETAILED	RO	ROUGH OPENING
DTL	DETAIL	RM	ROOM
DIAG	DIAGONAL	RAD	RADIUS
DIMR	DIMMER	RL	RAILING
DIM	DIMENSION	REF	REFERENCE
DR	DOOR	RG	REFLECTIVE GLASS (WALL SIDE)
DS	DOWNSPOUT	REFR	REFRIGERATOR
DWG	DRAWING	RFG	ROOFING
E	EAST	RGF	REFLECTIVE GLASS (FLOOR)
EB	EARTHWORK BOLT	RTW	RIGHT OF WAY
ELEC	ELECTRICAL	RH	RIGHT HAND
ELV	ELEVATION	R	RISER
EL	ELEVATION	RD	ROOF DRAIN
ELEV	ELEVATION	RV	ROOF VENTS
EMER	EMERGENCY	RFG	ROOFING
ENG	ENGINEER	RM	ROOM
EQ	EQUAL	RO	ROUGH OPENING
EQUIP	EQUIPMENT		
EX	EXISTING	SFTY GLASS	SAFETY GLASS
EXT	EXTERIOR	SCH	SCHEDULE
EXP	EXPOSED	SCR	SCREEN
EXT	EXTERIOR	SHT	SHEET
FOC	FACE OF CONCRETE	STG	SHELVING
FOF	FACE OF FINISH	SHT	SHEET
FOM	FACE OF MASONRY	SIM	SIMILAR
FOS	FACE OF STUDS	SL	SLEEVE
FIN	FINISH (ED)	SL	SOLID CORE
FFL	FINISHED FL ELEVATION	S	SOUTH
FFL	FINISHED FLOOR LINE	SPC	SPACER
FA	FIRE ALARM	SPRK	SPRINKLER
FE	FIRE EXTINGUISHER	SQ	SQUARE
FES	FIRE EXTINGUISHER CAB	SS	STAINLESS STEEL
FHC	FIRE HOSE CABINET	STD	STANDARD
FD	FIRE DEPARTMENT	STL	STEEL
FF	FINISH FLOOR	STRUC	STRUCTURAL
FL	FLOOR (ING)	STR	STRUCTURE
FLUOR	FLUORESCENT	SUSP	SUSPENDED
FPL	FIREPLACE		
FND	FOUNDATION	TB	TOWEL BAR
FR	FRAME (D) (ING)	TEL	TELEPHONE
FUR	FURRED (ING)	THK	THICKNESS
FUT	FUTURE	TYP	TYPICAL(LY)
FDN	FOUNDATION	TPD	TOILET PAPER DISPENSER
GA	GAUGE, GAUGE	VAC	VACUUM CLEANING
GALV	GALVANIZED	VB	VANITY BAR
GLC	GLAZING	VIF	VERIFY IN FIELD
GB	GRAB BAR	VTR	VENTILATOR
GD	GRADE, GROUND	VD	VINYL DOOR
GRND	GROUND	VCT	VINYL COMPOSITION TILE
GSF	GROSS SQUARE FEET	VPF	VAPOR BARRIER
GT	GRILLE	WC	WATER CLOSET
		WP	WATERPROOFING
HDR	HEADER	WCR	WALL CORNER BEAD
HDWD	HARDWOOD FLOOR		
HT	HEIGHT	WD	WOOD
HM	HOLLOW METAL	WS	WATER SHEDDER
HOR	HORIZONTAL	WT	WEIGHT
HWH	HOT WATER HEATER		
INC	INCLUDE (D) (ING)	WI	WIDE
INCL	INCLUDE (D) (ING)	WC	WATERPROOFED
INSL	INSULATION	WL	WALL COVERING
INT	INTERIOR	WOD	WOOD
INTM	INTERMEDIATE	WRD	WIRED GLASS
JAN	JANITOR'S CLOSET	WSC	WALL SCONCE
JC	JANITOR'S CLOSET	WH	WALL HEATER
JT	JOINT	WD	WITHDRAW
KP	KNAPPER	WT	WATERPROOFING
KD	KNOCK-DOWN FRAME	WR	WATER RESISTANT
LAB	LABORATORY	WBD	WHITEBOARD
LK	LOCK, LOCKER	WOD	WOOD OPENER
LAV	LAVATORY	WWM	WELDED WIRE MESH
LAM	LAMINATE (D)		
LAV	LAVATORY		
LT	LEFT HAND		
LT	LIGHT		
LOC	LOCKER		

FIXTURE REFRIGERATION NOTES

1. ELECTRICAL CONTRACTOR TO SUPPLY AND INSTALL ALL CONDUIT AND PULL BOXES UNDER THE GENERAL CONTRACTOR FIXTURE REFRIGERATION SYSTEM. ALL FULLY OR PARTIALLY EXPOSED PULL BOXES TO BE COMPLETE WITH STAINLESS STEEL COVER PLATES. SIZE OF PULL BOXES TO BE AS SHOWN ON FOOD SERVICE EQUIPMENT CONTRACTOR REFRIGERATION PLAN.
2. CONDUIT TO BE NUMB APPROVED TYPE. DIAMETER AS INDICATED WITH MINIMUM BENDING RADIUS OF 24" EXCEPT 12" WILL NOT BE PERMITTED. VERIFY WITH FOODS TYPE OF CONDUIT REQUIRED. GALVANIZED CONDUIT SHOULD NOT BE USED WITH COPPER REFRIGERATION SYSTEMS.
3. ALL HORIZONTAL DIMENSIONS SHOWN ON FIXTURE REFRIGERATION PLAN ARE GIVEN FROM FACE OF FINISHED WALL TO CENTER LINE OF CONDUIT AND/OR FROM CENTER LINE OF PULL BOX OR CONDUIT TO CENTER LINE OF PULL BOX OR CONDUIT UNLESS OTHERWISE NOTED.
4. HEIGHT OF PULL BOXES ON WALLS IS GIVEN FROM FINISHED FLOOR TO CENTER LINE OF PULL BOX.
5. ELECTRICAL CONTRACTOR TO SUPPLY AND INSTALL CONDUIT FOR REMOTE CONDENSER. CONDUIT SHALL BE PROVIDED WITH PULL STRING. SIZE OF CONDUIT AS INDICATED ON FIXTURE PLUMBING PLAN AND SCHEDULE FOR FULLY OR PARTIALLY EXPOSED FLOOR SAND. IN THE EVENT LOCAL CODES REQUIRE FLOOR SAND TO BE ABOVE OR BELOW FINISHED FLOOR, PLUMBER CONTRACTOR SHALL PROVIDE ADDITIONAL EQUIPMENT CONTRACTOR IMMEDIATELY.
6. PLUMBER TO PROVIDE ALL FLOOR DRAINS AS SHOWN ON FIXTURE PLUMBING PLAN AND WITH ROOF DRAIN, AS CALLED FOR ON ARCHITECTURAL MECHANICAL PLANS.
7. FIXTURE FRAMES TO FINISH ALL FACETS WHERE PART OF FIXTURE AND AS SHOWN ON FIXTURE PLUMBING SCHEDULE UNLESS OTHERWISE NOTED. REFERENCE VALVES FOR FAUCETS & 8" FOR 1 & BRASS & BRONZE WORKS, INC. AND "FINISH BY FOOD SERVICE MANUFACTURING COMPANY, S.F." FOR CHICAGO FAUCET COMPANY.
8. PLUMBER TO PROVIDE ALL VALVES, TRAPS AND PRESSURE REGULATORS NECESSARY TO CONNECT ALL LINES TO FIXTURES. ALL EXPOSED PIPE AND FROM BOXES SHOWING HEIGHT OF FIXTURES TO BE ORIGINAL PLATED. ALL EXPOSED PIPE AND TRAP BELOW FIXTURE TO BE FINISHED WITH BLACK PAINT BY PLUMBER AFTER INSTALLATION.
9. PLUMBER TO USE COUPLE JOINTS NOT BREAK JOINTS TO CONNECT ALL BUILT IN EQUIPMENT FOR EASE IN REMOVAL OF EQUIPMENT FOR SERVICE OR REPLACEMENT. PLUMBER TO PROVIDE PLASTIC REINFORCED TUBING COMPLETE WITH REQUIRED BOLT OFF UNLESS AND FITTINGS FOR ALL PORTABLE COUNTER EQUIPMENT.
10. PLUMBER TO PROVIDE SAFE VALVES ON ALL WATER AND GAS LINES TO INDIVIDUAL FIXTURES OR EQUIPMENT AND MAKE WHICH STOPS AHEAD OF ALL LIKE FIXTURES.
11. PLUMBER TO DRAIN ALL FIXTURES AND EQUIPMENT AS REQUIRED TO EITHER DIRECT OR INDIRECT WASTE LINES. THIS INCLUDES DRAINING OF ALL REFRIGERATION UNITS TO FLOOR DRAIN, INCLUDING REFRIGERATION LINES AND REFRIGERATED COMPLETE SUCH ALL DRAINS, AND FROM BOXES, EITHER TO DIRECT OR INDIRECT WASTE LINES, TO AND NO SMALLER THAN 8" BENDED OUT OF SIGHT. ALL EXPOSED GOOD DRAINS TO BE WRAPPED WITH CLEAR IMPRESSED RUBBER TAPE TO PREVENT SWEATING.
12. PROVIDE 1" INSULATED COPPER LINES FOR DRAINING WALK IN COOLER BANDS WALK IN FREEZER BLOWER COILS TO FLOOR DRAIN LINES TO BE RUN THROUGH WALLS AS SHOWN ON FIXTURE PLUMBING PLAN. FROM COIL LOCATION TO FLOOR DRAIN LOCATION EXPOSED OFF LINES WITH WALL AND TO BE INSULATED TO PREVENT FREEZING OF CONDENSATE.
13. PLUMBER TO VERIFY REFRIGERATED DISPLAY CASE LOCATION WITH FOOD SERVICE EQUIPMENT CONTRACTOR AND PROVIDE SAME REFER WALL BARS, COUPLES OR DISPLAY CASE BRACKETS.
14. WASTE LINES RUNNING FROM DISPENSER UNITS SHOULD BE AS DIRECT AS POSSIBLE WITH MAXIMUM FALL.
15. ALL PLUMBING LINES WITHIN FIXTURES AND TO BE RUN THROUGH BUSINESSES, BASEWALLS, AND BEHIND SHELVES WHEREVER POSSIBLE. PLUMBER TO TAKE SPECIAL CARE IN RUNNING LINES IN FIXTURES THAT THE DEPTH OF BLOCK AND SPACE WHICH IS TO BE RUNNING WITH BLOCK OR SLAB OUT OF CONCRETE. PLUMBER TO PROVIDE ALL FIXTURE SUPPORTS AND CHALK LINES.
16. PLUMBER TO PROVIDE INTERCEPTOR AND EXTERIOR HOSE BIBBS AS DIRECTED ON FIXTURE PLUMBING PLAN AND ARCHITECTURAL MECHANICAL PLANS. PLUMBER TO PROVIDE ALL FIXTURE SUPPORTS AND CHALK LINES.
17. PLUMBER TO PROVIDE ALL BACK FLOW PREVENTION DEVICES AS REQUIRED BY LOCAL CODES UNLESS OTHERWISE NOTED.
18. PLUMBER TO PROVIDE HOT WATER SYSTEM SPECIFIED ON ARCHITECTURAL MECHANICAL PLANS. IF TBD OR DOES NOT MATCH SUPPLIED FROM ANY WATER HEATER. PLUMBER TO PROVIDE ALL TIME RELEASE VALVE, COMPLETE WITH ALL REQUIRED PIPING, PUMP TO 200 HANDLE PRESS. THE CONNECTION. PLUMBER TO PROVIDE AIR PRESSURE REGULATOR AND TEMPERATURE GAGE FOR HANG LINE CONNECTION TO DISHWASHER.
19. PLUMBER TO CONNECT WATER SUPPLYING AND WATER TO FIXING EQUIPMENT IF USED. VERIFY LOCATION WITH ARCHITECTURAL MECHANICAL PLANS.
20. WATER PRESSURE TO LOTTLE WASHER MUST NOT EXCEED OFF WATER SUPPLYING UNLESS OTHERWISE SPECIFIED.
21. PLUMBER TO PROVIDE COLD WATER LINES, GAS LINES AND DRAINS ON ROOF AS REQUIRED FOR FUTURE EXHAUST AND MAKE UP AIR PLAN AND ARCHITECTURAL PLANS FOR LOCATION AND REQUIREMENTS. VERIFY HOOK UP OF UNITS AT JOB SITE WITH FIXTURE SHEET AND TRANSACTOR PLUMBING.
22. ALL EXPOSED WATER LINES TO BE TYPE "L" COPPER AND TO BE SIZED TO MEET JOB DEMANDS BY MECHANICAL ENGINEER AND/OR PLUMBING CONTRACTOR.
23. ALL UNDERGROUND WATER LINES TO BE TYPE "K" COPPER AND TO BE SIZED TO MEET JOB DEMANDS BY MECHANICAL ENGINEER AND/OR PLUMBING CONTRACTOR.
24. PLUMBER TO PROVIDE AND CONNECT ALL WATER LINES, GAS LINES, DRAIN LINES, FLOOR SINKS AND FLOOR DRAINS, INCLUDING NECESSARY VALVES, FITTINGS, AND TRAPS FOR ALL RESTAURANT FIXTURES AND EQUIPMENT AS REQUIRED AND SHOWN ON FIXTURE PLUMBING PLAN, PLUMBING SCHEDULE AND NOTES. THIS WORK TO BE PERFORMED BY THE PLUMBING CONTRACTOR UNDER THE GENERAL CONTRACT IN A FIRST CLASS WORKMANLIKE MANNER.
25. PLUMBING CONTRACTOR TO LEAK SPILL AND INSTALL ANY DISCREPANCY AND FIRE DETERIORATION BEYOND WHERE REQUIRED.
26. IT SHALL BE THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO SEE THAT THE PHASE OF THE WORK MEETS AND IS INSTALLED IN ACCORDANCE WITH STANDARDS REQUIRED BY ALL GENERAL, STATE AND FEDERAL LAWS (INCLUDING HEALTH CODES) AND MAY ALL CODES REQUIRED.
27. IT SHALL BE THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO CONTACT FOOD SERVICE EQUIPMENT CONTRACTOR IN THE EVENT THERE IS DISCREPANCIES BETWEEN THE PLUMBING DRAWINGS/DRAWINGS AND FIXTURE PLUMBING DRAWINGS.
28. HOLES OR OPENINGS REQUIRED IN EQUIPMENT AND FIXTURES OR HOLES, WASTE GAS LINES SHALL BE CUT BY THE FOOD SERVICE EQUIPMENT CONTRACTOR.

FIXTURE ELECTRICAL NOTES

1. ALL ELECTRICAL OUTLETS AND CONNECTIONS SHOWN ON FIXTURE PLAN AND SCHEDULE ARE FOR FIXTURES AND EQUIPMENT SHOWN ON FOOD SERVICE EQUIPMENT CONTRACTOR EQUIPMENT FIXTURE FLOOR PLAN. SEE ARCHITECTURAL PLANS AND GENERAL CONTRACTOR FOR FURTHER BUILDING REQUIREMENTS.
2. ALL HORIZONTAL DIMENSIONS SHOWN ON FIXTURE ELECTRICAL PLAN ARE TAKEN FROM FINISHED WALL TO CENTER LINE OF OUTLET BOX AND/OR CENTER LINE OF OUTLET CENTER LINE OF OUTLET. UNLESS OTHERWISE NOTED. ELECTRICAL CONTRACTOR TO VERIFY ALL DIMENSIONS AT JOB SITE.
3. HEIGHT OF ELECTRICAL OUTLETS ABOVE AS PLUS 12" (8"±) ON FIXTURE ELECTRICAL SCHEDULE IS GIVEN FROM FINISHED FLOOR TO CENTER LINE OF OUTLET BOX. HEIGHT OF ELECTRICAL OUTLET NUMERICALLY ELECTRICAL LINES SHALL BE RUN IN WALL AND TO THE CENTER IN BOX OR CONDUIT.
4. ALL FIXTURE LINES NOTED AS STUB-UP FOR FIXTURE ELECTRICAL SCHEDULE ARE TO BE RUN UNDER FLOOR AND ARE TO STUB OUT OF FINISHED FLOOR OR LURE AS THE CASE MAY BE, AT LOCATION SHOWN.
5. ALL ELECTRICAL POWER NOT OTHERWISE NOTED TO BE SINGLE PHASE.
6. ALL TELEPHONE OUTLETS AND TELEPHONES WITH OPTIONAL LOCKS AND TO BE NOTED AS WHITE. ELECTRICAL CONTRACTOR IS TO PROVIDE ANY ADDITIONAL OUTLETS AS CALLED FOR BY ARCHITECT OWNER AND/OR GENERAL CONTRACTOR.
7. ELECTRICAL CONTRACTOR TO PROVIDE EAPS AND CORDS FOR ALL EQUIPMENT WHERE CAPS AND LOCKS AND NOT STANDARD WITH MANUFACTURER. ELECTRICAL TO BLOCK SHORTS ON SUPPLIES BY FIXTURE EQUIPMENT IF REQUESTED TO DO SO BY OWNER OR FOOD SERVICE EQUIPMENT CONTRACTOR REPRESENTATIVE.
8. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL CONDUIT AND PULL BOXES FOR REFRIGERATION, BEVERAGE AND SODA GAS LINES. SEE FUTURE REFRIGERATION AND/OR FIXTURE ELECTRICAL NOTES AND PLANS.
9. ELECTRICAL CONTRACTOR TO PROVIDE POWER AT COMPRESSOR LOCATIONS AS INDICATED ON PLAN. IF AUTOMATIC DEFROST TIMER AND LINES REQUIRED, ELECTRICAL CONTRACTOR TO PROVIDE 1 INCHES FREE SERVICE FROM COMPRESSOR TO UNIT AND/OR UNITS.
10. WHERE 208 VOLT SERVICES, FOOD SERVICE EQUIPMENT CONTRACTOR WILL PROVIDE TRANSFORMERS TO CONNECT VOLTAGE TO 230 VOLT FOR REMOTE 2 HP INNER CONDENSING UNITS ONLY. TO BE PAID AND CONNECTED BY ELECTRICAL CONTRACTOR.
11. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL LOCKOUT DEVICES ON ALL BREAKERS FOR CLOSING REFRIGERATION CONTROL WIRING AND EXHAUST SYSTEM.
12. ELECTRICAL TO SUPPLY STAINLESS STEEL COVER PLATES FOR ANY PULLY OF EXPOSED PULL BOXES AND/OR ELECTRICAL ACCESS BOXES AND PROVIDE STAINLESS STEEL COVER PLATES FOR ALL CONVENIENCE OUTLETS.
13. ELECTRICAL TO PROVIDE POWER ON FOUR FOR AND CONNECT COMPONENTS OF FIXTURE MADE UP AIR AND EXHAUST SYSTEMS. ELECTRICAL CONTRACTOR TO PROVIDE FOR WATER WASH HOOD. ELECTRICAL TO INTERCONNECT EXHAUST AND MAKE UP AIR SYSTEM OR ACTUATION FROM SMOKE DETECTOR PROVIDED BY HOOD. SEE ARCHITECTURAL PLANS AND SHOP DRAWINGS FOR REQUIREMENTS AND LOCATIONS OF EQUIPMENT. VERIFY CONNECTION OF UNITS AT JOB SITE WITH FIXTURE SHEET METAL FABRICATOR PROVIDING SYSTEMS.
14. ELECTRICAL TO PROVIDE AND RUN CONDUITS FOR TELEPHONE, SOUND SYSTEM, COMPUTER, AND FIRE SYSTEMS, AS INDICATED ON FIXTURE ELECTRICAL PLAN, ARCHITECTURAL PLANS, AND/OR BY GENERAL CONTRACTOR AND/OR OWNER.
15. ELECTRICAL CONTRACTOR AND/OR ELECTRICAL ENGINEER TO SUPPLY ALL ELECTRICAL JUNCTION BOXES, CONDUIT AND PANELS PARTS TO BE SIZED TO ALLOW ONE TRIP EXCEPT (FOR FUTURE USE) FOR EVERY FIVE CONDUITS ENTERED.
16. ELECTRICAL CONTRACTOR TO PROVIDE ALL JUNCTION BOXES AND CONVENIENCE OUTLET BOXES LOCATED IN WALLS AND IN HEAD AND CONNECTED TO ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR TO PROVIDE ALL JUNCTION BOXES AND CONVENIENCE OUTLET BOXES LOCATED IN WALLS TO BE FURNISHED BY FIXTURE ELECTRICAL SCHEDULE. HOWEVER INTERNAL WIRING FROM BOXES SUPPLIED AS PART OF FIXTURE TO BE SUPPLIED AND INSTALLED BY ELECTRICAL CONTRACTOR. INTERIOR WIRING IN WALLS TO BE FURNISHED BY FIXTURE MFR. WIRES FROM JUNCTION BOXES TO ENCLOSURE IN FIXTURE. FIXTURE FABRICATOR TO SUPPLY AND INSTALL BUTTONS CONDUIT RUN RUNNING OF SUCH LINES. ALL JUNCTION BOXES AND CONVENIENCE OUTLET BOXES LOCATED IN WALLS TO BE FURNISHED BY FIXTURE ELECTRICAL SCHEDULE. UNLESS OTHERWISE NOTED. ON FIXTURE ELECTRICAL SCHEDULE. ELECTRICAL TO PROVIDE ETHERNET BOXES THROUGH SPLINGS AS REQUIRED.
17. MAGNETIC STARTERS, WHERE REQUIRED FOR ALL EQUIPMENT SUPPLIED BY FOOD SERVICE EQUIPMENT CONTRACTOR UNDER FIXTURE CONTRACT, WILL BE SUPPLIED BY FOOD SERVICE EQUIPMENT CONTRACTOR.
18. ELECTRICAL CONTRACTOR TO PROVIDE 120VAC OUTLET FOR WATER SOFTENER AND TIME CLOCK. SEE FUTURE ELECTRICAL PLAN AND ARCHITECTURAL PLANS FOR LOCATION.
19. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL ALL LIGHTING FIXTURES WHERE PART OF BUILDING AND TO ASSEMBLE AND INSTALL ALL DECORATIVE LIGHTING FIXTURE THAT MAY BE SUPPLIED BY FOOD SERVICE EQUIPMENT CONTRACTOR AND/OR OWNER. SEE REFLECTED CEILING PLAN AND/OR ARCHITECTURAL PLANS FOR REQUIREMENTS.
20. ELECTRICAL CONTRACTOR TO PROVIDE AND CONNECT ALL LINES, CONDUITS, JUNCTION BOXES, OUTLET BOXES, PULL BOXES, SWITCHES ETC. FOR ALL RESTAURANT FIXTURES AND EQUIPMENT AS REQUIRED AND AS SHOWN ON FOOD SERVICE EQUIPMENT CONTRACTOR ELECTRICAL PLAN, ELECTRICAL SCHEDULE AND NOTES AND LIGHTING INTERNAL WIRING OR FIXTURES. THIS WORK TO BE PERFORMED BY ELECTRICAL CONTRACTOR UNDER THE GENERAL CONTRACT IN A FIRST CLASS WORKMANLIKE MANNER. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS AND COMPLIANCE WITH ANY AND ALL REGULATIONS. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PLANNING AND COORDINATION OF THE WORK AND SHALL PROVIDE SHOP DRAWINGS FOR ALL FIXTURES TO JUNCTION BOXES. ELECTRICAL CONTRACTOR SHALL VERIFY WITH FIXTURE FABRICATOR PROVIDING OF FABRICATION AND SHALL BE RESPONSIBLE FOR THE REQUIRED INSPECTION OF INACCESSIBLE AREAS IN FIXTURES BEFORE SUCH AREAS ARE COVERED OR SEALED.
21. IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO PURCHASE FOOD SERVICE EQUIPMENT CONTRACTOR WITH A WRITTEN LETTER INDICATING THE VOLTAGE, PHASE AND CYCLE AVAILABLE FOR EQUIPMENT PRIOR TO ORDERING EQUIPMENT. NO EXTRA EQUIPMENT WILL BE ORDERED UNTIL REQUEST BY FOOD SERVICE EQUIPMENT CONTRACTOR FOR THE LETTER.
22. IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO SEE THAT ANY PHASE OF THE WORK MEETS AND IS INSTALLED IN ACCORDANCE WITH STANDARDS REQUIRED BY ALL GENERAL, STATE AND FEDERAL LAWS (INCLUDING HEALTH AND FIRE CODES) AND MAY AND ALL CODES REQUIRED TO MANUFACTURE OR AREA WHERE JOB IS BEING INSTALLED.
23. WHERE THE STANDARD, 1 AND LOCATED FOR A GOOD CONNECTION, A 8 OF SECTION OF PLUG CONDUIT SHOULD BE STUBBED OUT AT LOCATION SHOWN ON FIXTURE ELECTRICAL PLAN. ELECTRICAL TO 2 BOX LOCATION A CONVENIENT POSITION ON FIXTURE EQUIPMENT AND BOX PLUG IN FIXTURE. IF LOCAL CODES DO NOT PERMIT THIS METHOD PLEASE CONTACT FOOD SERVICE EQUIPMENT CONTRACTOR IMMEDIATELY.
24. IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO CONTACT FOOD SERVICE EQUIPMENT CONTRACTOR IN THE EVENT THERE ARE DISCREPANCIES BETWEEN THE ELECTRICAL DRAWINGS/DRAWINGS AND FIXTURE ELECTRICAL DRAWINGS.
25. IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO SEE THAT ALL LIGHTING FIXTURES ARE PROPERLY SUPPORTED AND MEET CODE REQUIREMENTS.
26. ELECTRICAL TO PROVIDE DISCONNECT AND/OR TIMER OFF SWITCHES FOR ANY EQUIPMENT AS REQUIRED BY LOCAL CODE.
27. ELECTRICAL TO PROVIDE TEMPORARY POWER FOR FOOD SERVICE EQUIPMENT CONTRACTOR INSTALLING.
28. ELECTRICAL CONTRACTOR TO VERIFY SITE INSULATION OF ELECTRICAL CONDUIT/WIRE IF REQUIRED PRIOR TO INSTALLATION WITH FOOD SERVICE EQUIPMENT CONTRACTOR. PROVIDE AND INSTALL TRANSFORMER PER CODE.
29. ELECTRICAL CONTRACTOR TO LABEL AND NUMBER ELECTRICAL PANELS PER FOOD SERVICE EQUIPMENT SCHEDULE. LABEL TO BE TYPED AND INSTALLED IN A WATERPROOF MANNER.
30. ELECTRICAL CONTRACTOR TO BE PRESENT AT ALL TRADE INSPECTIONS.
31. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL ELECTRICAL CONTRACTOR FOR ALL ELECTRICAL LICENSING EQUIPMENT FOR FIRE CONTROL SYSTEM.
32. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL HEATER TAPE FOR CONDENSATE DRAIN LINES IN WALK IN, REACH IN, AND/OR FREEZER BANKS.
33. HOLES AND/OR OPENINGS REQUIRED IN EQUIPMENT AND FIXTURES FOR SERVICE OUTLETS, CONDUIT RUNS, WIRING ETC. SHALL BE CUT BY THE FOOD SERVICE EQUIPMENT CONTRACTOR ONLY.

FIXTURE PLUMBING NOTES

1. ALL OUTLETS AND CONNECTIONS SHOWN ON FIXTURE PLAN AND SCHEDULE ARE FOR FIXTURES AND EQUIPMENT SHOWN ON FIXTURE FLOOR PLAN ONLY. SEE ARCHITECTURAL PLANS AND/OR GENERAL CONTRACTOR FOR FURTHER BUILDING REQUIREMENTS.
2. ALL HORIZONTAL DIMENSIONS SHOWN ON FIXTURE PLUMBING PLAN ARE TAKEN FROM FINISHED WALL TO CENTER LINE OF OUTLET OR FROM CENTER LINE OF OUTLET TO CENTER LINE OF OUTLET. UNLESS OTHERWISE NOTED. PLUMBING CONTRACTOR TO VERIFY ALL DIMENSIONS AT JOB SITE.
3. HEIGHT OF PLUMBING OUTLETS NOTED AS PLUS 12" (8" ±) ON FIXTURE PLUMBING PLAN IS GIVEN FROM FINISHED FLOOR (NOT FINISHED FLOOR) TO CENTER LINE OF OUTLET. PLUMBING LINES SO NOTED ARE TO BE RUN IN WALL AND TO STUB OUT OR WALL AT HEIGHT INDICATED.
4. PLUMBING OUTLETS NOTED AS "STUB UP" AND TO BE RUN UNDER FLOOR AND ARE TO BE STUB OUT OF FINISHED FLOOR OR CURB AT LOCATION SHOWN ON FIXTURE PLUMBING PLAN. THESE OUTLETS ARE TO PROJECT 2" ABOVE FINISHED FLOOR OR FINISHED CURB AS THE CASE MAY BE, SO AS NOT TO INTERFERE WITH INSTALLATION OF FIXTURES.
5. FLOOR SINKS TO BE INSTALLED ACCORDING TO LOCAL CODES. FLOOR SINKS TO BE 4 X 8 CAST IRON INDIRECT WASTE RECEPTOR. PLUMBER TO PROVIDE GRATES AS INDICATED ON FIXTURE PLUMBING PLAN AND SCHEDULE FOR FULLY OR PARTIALLY EXPOSED FLOOR SINKS. IN THE EVENT LOCAL CODES REQUIRE FLOOR SINKS TO BE ABOVE OR BELOW FINISHED FLOOR, PLUMBER CONTRACTOR SHALL IMMEDIATELY NOTIFY FOOD SERVICE EQUIPMENT CONTRACTOR IMMEDIATELY.
6. PLUMBER TO PROVIDE ALL FLOOR DRAINS AS SHOWN ON FIXTURE PLUMBING PLAN AND WITH ROOF DRAIN, AS CALLED FOR ON ARCHITECTURAL MECHANICAL PLANS.
7. FIXTURE FRAMES TO FINISH ALL FACETS WHERE PART OF FIXTURE AND AS SHOWN ON FIXTURE PLUMBING SCHEDULE UNLESS OTHERWISE NOTED. REFERENCE VALVES FOR FAUCETS & 8" FOR 1 & BRASS & BRONZE WORKS, INC. AND "FINISH BY FOOD SERVICE MANUFACTURING COMPANY, S.F." FOR CHICAGO FAUCET COMPANY.
8. PLUMBER TO PROVIDE ALL VALVES, TRAPS AND PRESSURE REGULATORS NECESSARY TO CONNECT ALL LINES TO FIXTURES. ALL EXPOSED PIPE AND FROM BOXES SHOWING HEIGHT OF FIXTURES TO BE ORIGINAL PLATED. ALL EXPOSED PIPE AND TRAP BELOW FIXTURE TO BE FINISHED WITH BLACK PAINT BY PLUMBER AFTER INSTALLATION.
9. PLUMBER TO USE COUPLE JOINTS NOT BREAK JOINTS TO CONNECT ALL BUILT IN EQUIPMENT FOR EASE IN REMOVAL OF EQUIPMENT FOR SERVICE OR REPLACEMENT. PLUMBER TO PROVIDE PLASTIC REINFORCED TUBING COMPLETE WITH REQUIRED BOLT OFF UNLESS AND FITTINGS FOR ALL PORTABLE COUNTER EQUIPMENT.
10. PLUMBER TO PROVIDE SAFE VALVES ON ALL WATER AND GAS LINES TO INDIVIDUAL FIXTURES OR EQUIPMENT AND MAKE WHICH STOPS AHEAD OF ALL LIKE FIXTURES.
11. PLUMBER TO DRAIN ALL FIXTURES AND EQUIPMENT AS REQUIRED TO EITHER DIRECT OR INDIRECT WASTE LINES. THIS INCLUDES DRAINING OF ALL REFRIGERATION UNITS TO FLOOR DRAIN, INCLUDING REFRIGERATION LINES AND REFRIGERATED COMPLETE SUCH ALL DRAINS, AND FROM BOXES, EITHER TO DIRECT OR INDIRECT WASTE LINES, TO AND NO SMALLER THAN 8" BENDED OUT OF SIGHT. ALL EXPOSED GOOD DRAINS TO BE WRAPPED WITH CLEAR IMPRESSED RUBBER TAPE TO PREVENT SWEATING.
12. PROVIDE 1" INSULATED COPPER LINES FOR DRAINING WALK IN COOLER BANDS WALK IN FREEZER BLOWER COILS TO FLOOR DRAIN LINES TO BE RUN THROUGH WALLS AS SHOWN ON FIXTURE PLUMBING PLAN. FROM COIL LOCATION TO FLOOR DRAIN LOCATION EXPOSED OFF LINES WITH WALL AND TO BE INSULATED TO PREVENT FREEZING OF CONDENSATE.
13. PLUMBER TO VERIFY REFRIGERATED DISPLAY CASE LOCATION WITH FOOD SERVICE EQUIPMENT CONTRACTOR AND PROVIDE SAME REFER WALL BARS, COUPLES OR DISPLAY CASE BRACKETS.
14. WASTE LINES RUNNING FROM DISPENSER UNITS SHOULD BE AS DIRECT AS POSSIBLE WITH MAXIMUM FALL.
15. ALL PLUMBING LINES WITHIN FIXTURES AND TO BE RUN THROUGH BUSINESSES, BASEWALLS, AND BEHIND SHELVES WHEREVER POSSIBLE. PLUMBER TO TAKE SPECIAL CARE IN RUNNING LINES IN FIXTURES THAT THE DEPTH OF BLOCK AND SPACE WHICH IS TO BE RUNNING WITH BLOCK OR SLAB OUT OF CONCRETE. PLUMBER TO PROVIDE ALL FIXTURE SUPPORTS AND CHALK LINES.
16. PLUMBER TO PROVIDE INTERCEPTOR AND EXTERIOR HOSE BIBBS AS DIRECTED ON FIXTURE PLUMBING PLAN AND ARCHITECTURAL MECHANICAL PLANS. PLUMBER TO PROVIDE ALL FIXTURE SUPPORTS AND CHALK LINES.
17. PLUMBER TO PROVIDE ALL BACK FLOW PREVENTION DEVICES AS REQUIRED BY LOCAL CODES UNLESS OTHERWISE NOTED.
18. PLUMBER TO PROVIDE HOT WATER SYSTEM SPECIFIED ON ARCHITECTURAL MECHANICAL PL

NOTE

REFER TO SHEET A 501 FOR EQUIPMENT LIST AND SPECS
REFER TO SHEET A 510 FOR ELECTRICAL ROUGH IN
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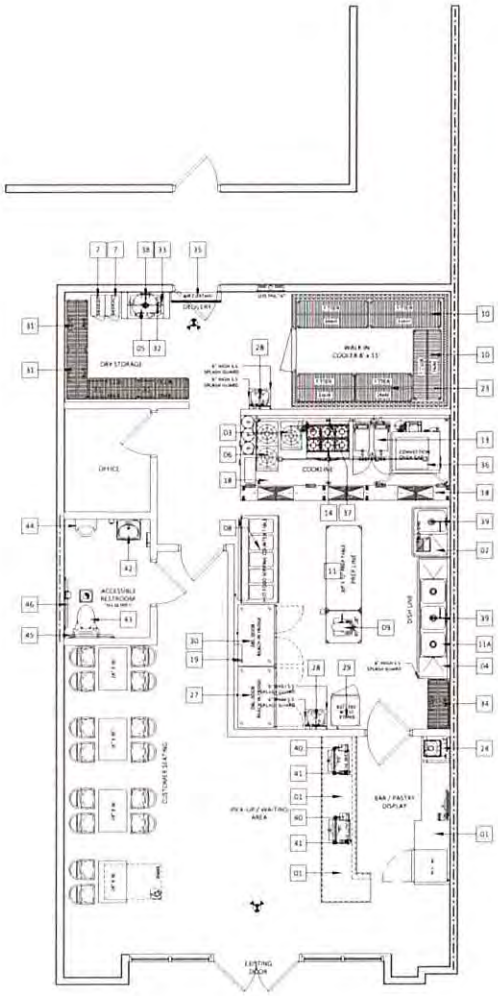

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EQUIPMENT FLOOR PLAN | SCALE 1/8"=1'-0" | 1

WALL SYMBOL LEGEND

- EXTERIOR CONCRETE TILT UP EXTERIOR WALL TO REMAIN. NO CHANGES
- 2" METAL STUD NON-LOAD BEARING WALL WITH 5/8" GYPSUM WALL BOARD AT BOTH SIDES
- FOUR HOUR BEARING 2 METAL STUD WALL @ 16" O.C. INSTALL WITH MIN 5/8" GYPSUM WALL BOARD AT BOTH SIDES UNLESS OTHERWISE NOTED
- 2"L 1-HR FIRE RATED DIVIDING WALL 2 X 4 STUDS @ 16" O.C. W/ 5/8" TYPE "X" GYPSUM BOARD WITH SAFS. - ENTRAN TOR TO FIELD VERIFY - CONTRACTOR TO RESTORE ALL REQUIRED FIRE RATINGS AT ANY PENETRATIONS TO FIRE WALL
- 2"L 1-HR FIRE RATED NON-LOAD BEARING 2 X 5/8" X 5 1/2" METAL STUD FURRING WALL @ BACK OF COOKLINE INSTALL WITH MIN 5/8" TYPE "X" GYPSUM WALL BOARD AT INTERIOR SIDE. INSTALL 304 OR 316 STAINLESS STEEL WALL PANELS OVER
- NEW 18 GA 3 5/8" X 2 1/2" METAL STUD WALL TO MATCH 2" 4 1-HR FIRE PLAN WITH STUDS @ 16" O.C. INSTALLED WITH MIN 5/8" GYPSUM WALL BOARD @ EACH SIDE
- NEW 18 GA 3 5/8" X 2 1/2" METAL STUD WALL TO MATCH 2" 4 1-HR FIRE PLAN WITH STUDS @ 16" O.C. INSTALLED WITH MIN 5/8" GYPSUM WALL BOARD AT 1 SIDE
- NEW 18 GA 3 5/8" X 2 1/2" METAL STUD WALL FURRING WITH STUDS @ 16" O.C. INSTALLED WITH MIN 5/8" GYPSUM WALL BOARD AT 1 SIDE

HEALTH DEPT NOTES

1. SURFACE BASE TILE MAY ONLY BE USED ON SEALED CONCRETE
2. ALL PANT MUST BE SEMI GLOSS, SMOOTH, EASILY WASHABLE AND THE LIGHT REFLECTIVE VALUE
3. ALL WALLS AND CEILING IN WALK IN COOLER MUST BE SMOOTH ALUMINUM
4. BATHROOM AND THE SEAM LATRICE FLOORS MUST BE SELF COVERING TYPE
5. TRASH ENCLOSURE AREA MUST BE HAVE SMOOTH WASHABLE WALLS AND FLOOR
6. ALL FINISHES TO BE FROM APPROVED HEALTH DEPT LIST AND ARE TO BE DURABLE, SMOOTH, CLEANABLE, WASHABLE, NON ABSORBENT & THE LIGHT REFLECTIVE VALUE
7. THE ABOVE APPLIES TO THE CUSTOMER AND KITCHEN CO.
8. FLEX COVE BASE CERAMIC TOP SET TO BE 2" HIGH, NON ABSORBENT, EASILY WASHABLE, AND BE PROVIDED AT THE JUNCTIONS OF WALLS TO FLOOR
9. ALL WALLS & CEILINGS TO HAVE A SMOOTH FINISH & IS CLEANABLE AND HAVE A LIGHT REFLECTIVE VALUE OF 70%
10. PLUMBING TO BE SMOOTH, DURABLE AND EASILY CLEANABLE AND SMOOTH UNDER EQUIPMENT
11. ALL LIGHTING OVER FOOD SERVICE AREAS TO BE COVERED AND OR SHATTER PROOF
12. RESTROOM VENTILATION SHALL BE CONNECTED TO RESTROOM OCCUPANCY SENSOR WHICH CONTROLS ALL RESTROOM LIGHTING
13. AIR CURTAIN SHALL BE QUICK SWITCH ACTIVATED AND PROVIDE WITH A MIN 1000 FPM
14. ALL EXTERIOR ENTRANCE / EXIT DOOR SHALL BE TIGHT FITTING AND RODENT PROOF
15. ALL EQUIPMENT INCLUDING WATER HEATER, EMPTYING LOCKERS, ETC SHALL BE ON 4" HIGH LEGS, SADDLES OR SOLID MASONRY ISLAND NO MIN 6" PROVIDE COVE BASE QUALIFIED MATERIAL
16. RESTROOM FLOOR SHALL HAVE SMOOTH, HARD WITH NON ABSORBENT DURABLE AND EASILY CLEANABLE SURFACE SUCH AS PORTLAND CEMENT CLAY TILE - EXAMPLE THE LIKE OTHER APPROVED MATERIAL MIN 4" EXTEND UPWARD UNTIL WALL AT LEAST 2"
17. THE FOLLOWING MATERIAL SHALL NOT BE USED UNDER ANY CIRCUMSTANCES: CARPET, WOOD, WOOD CLAY BASE, PAINTED CONCRETE, VINYL COMPOSITION TILE (VCT), RUBBER OR VINYL TOP SET COVE BASE
18. CEILING SURFACES MUST BE SMOOTH, NON ABSORBENT, DURABLE AND EASILY WASHABLE

MECHANICAL NOTES

NOTE
ROOF MOUNTED EQUIPMENT SHALL BE LABELED AS TO THE SPACE IT SERVES

ALL APPLIANCE UNIT PLUMBING, VENTS AND THE PROXIMITY OUTLET OF TRANSIT FANS SHALL BE AT LEAST 10 FEET IN A HORIZONTAL DIRECTION OR 2 FEET ABOVE THE OUTSIDE AIR INTAKES FOR AT AC UNITS. CMC 302.3.1

IN SMALL VENTILATING AND AIR CONDITIONING SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH AN APPROVED METHOD PER SECTION 916.1 OF THE CALIFORNIA MECHANICAL CODE.

FOR ALL OCCUPIED AREAS OF THE BUILDING THAT ARE MECHANICALLY VENTILATED, PROVIDE FILTERS FOR ALL OUTSIDE AND RETURN AIR HAVING A MINIMUM EFFICIENCY REPORTING VALUE (MERV) OF AT LEAST 12.

"AT THE TIME OF BOILER INSTALLATION, OR DURING STORAGE ON THE CONSTRUCTION SITE AND UNTIL FINAL STARTUP OF THE HEATING, COOLING AND VENTILATING EQUIPMENT, ALL DUCT AND OTHER AIR DISTRIBUTION EQUIPMENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEET METAL OR OTHER ACCEPTABLE METHODS TO REDUCE THE AMOUNT OF DUST, WATER, AND DEBRIS WHICH MAY ENTER THE SYSTEM. CAL GREEN 5.504.3

AIR CONDITIONING EQUIPMENT CIRCUIT ACCESS POINTS LOCATED OUTDOORS SHALL BE PROTECTED FROM DAMAGE PER CMC 301.11

AIR HANDLING UNITS SUPPLYING AIR IN EXCESS OF 2000 CFM MAY NOT EQUIPPED WITH AN AUTOMATIC SHUTOFF AS TRIGGERED BY A SMOKE DETECTOR LOCATED IN THE MAIN SUPPLY AIR DUCT. IF A DETECTOR HAS BEEN LOCATED MORE THAN ONE FIELD OF AC UNIT WHICH SERVES A COMMON SPACE WITH INADEQUATE SUPPLY AIR OR MORE THAN 2000 CFM. CMC 608.1

CONDENSATE DRAIN LINES SHALL BE CONTRUCTED OR PROVIDED WITH A CLEAN OUT TO PERMIT THE CLEANING OF BLOCKAGES AND FOR MAINTENANCE (WITHOUT REQUIRING THE DRAIN LINE TO BE CUT. CMC 310.3.1

REFRIGERATED SPACE NOTES

1. PLANS SHOW THE FOLLOWING INSULATION VALUES FOR REFRIGERATED SPACE ON THE CONSTRUCTION PLANS TO MATCH THE REQUIREMENTS OF TABLE 120.6-A SPECIFY R-VALUE. MINIMUMS:
   a. CEILING/ROOF R 28 INSULATION MIN COOLER / R 40 INSULATION MIN FREEZER
   b. WALLS R 28 INSULATION MIN COOLER / R 40 INSULATION MIN FREEZER
   c. FLOOR R 25 INSULATION MIN / FREEZER ONLY
2. PROVIDE DATA SHEETS SHOWING THE FOLLOW ING INFORMATION FOR THE FOLLOWING:
   SINGLE PHASE EVAPORATOR FANS LESS THAN 1 HP AND MUST SHALL BE ELECTRONICALLY COMMUTATED MOTOR OR HAVE A MINIMUM AC FOR 50% DUTY OF 70%
3. LIGHTING OR FANS SHALL BE VARIABLE SPEED NOT CON ROLLED IN ACCORDANCE OF SPACE TEMPERATURE.
   EVAPORATOR FANS SERVICE AT A SINGLE COOLER OPERATOR WITH NO VARIABLE CAPACITY SHALL HAVE CONTROLS TO REDUCE AIRFLOW TO AT LEAST 50% FOR AT LEAST 70% OF THE TIME THE COMPRESSOR IS NOT RUNNING
4. ALL COMPRESSORS SHALL BE CONTRUCTED 1 VARIABLE SPEED
5. CONDENSING UNIT MINIMUM SET POINT SHALL BE ACCEPTABLE TO THE MANUFACT CATALOGUE FOR AIR COOLED AND WATER COOLED CONDENSING UNITS. CAL GREEN 5.504.4.3
6. FOR POWERED CONDENSING UNITS MIN 1 HP, CONDENSER FAN SHALL HAVE MINIMUM R VALUE 3.0 R
7. AIR COOLED CONDENSERS SHALL HAVE A FIN DENSITY NO GREATER THAN 12 FINS PER INCH
8. COMPRESSORS SHALL BE DESIGNED TO OPERATE AT A MINIMUM CONDENSING TEMPERATURE OF 70 DEGREES OR LESS

PROCESS REQUIRED WHEN INFORMATION SHOWS ON PLANS ON MINIMUM LIST SPECS PER SECTION 120.6(a)

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PROJECT TITLE
VICKY'S BUBBLY CAFE
TENANT IMPROVEMENT - KITCHEN RESTAURANT

PROJECT ADDRESS
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REVISIONS

NO.	DATE	DESCRIPTION
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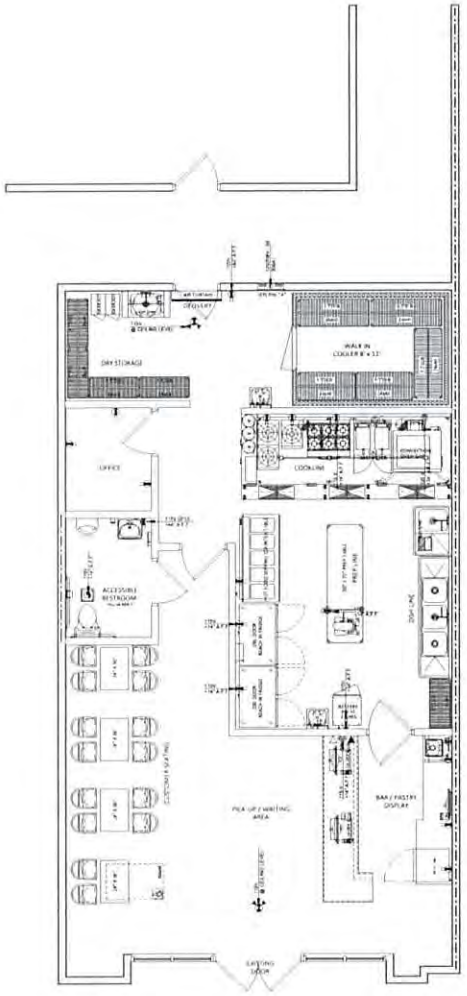
TITLE
EQUIPMENT FLOOR PLAN

SHEET #
A-505

NO. 01 OF 100

NOTE

REFER TO SHEET A-501 FOR EQUIPMENT LIST AND SPECS
REFER TO SHEET A-505 FOR EQUIPMENT LAYOUT
REFER TO SHEET A-515 FOR PLUMBING ROUGH IN



WALL SYMBOL LEGEND

	(E) EXTERIOR CONCRETE TILT UP EXTERIOR WALL TO REMAIN - NO CHANGES
	(E) INTERIOR NON-LOAD BEARING, METAL STUD WALL WITH 5/8" GYPSUM BOARD AT BOTH SIDES
	NEW NON-BEARING (1) METAL STUD WALL @ 16" O.C. INSTALL WITH 5/8" GYPSUM WALL BOARD AT BOTH SIDES UNLESS OTHERWISE NOTED
NF 2 (NRC) (STC) 2 (S)	(F) 1 HR FRP RATED NON-BEARING WALL (1) STUDS @ 16" O.C. W/ 5/8" TYPE 'X' GYPSUM BOARD WITH SEAL (CONTRACTOR TO FIELD VERIFY - CONTRACTOR TO ADDITIONAL REQUIRED FRP RATING AT ANY NON-TRADITIONAL FLAT WALL
NF 2 (NRC) (STC) 2 (S)	(N) 1 HR FRP RATED NON-LOAD BEARING 3 5/8" X 3 5/8" METAL STUD FURRING WALL @ BACK OF COOKLINE METAL WITH 5/8" TYPE "X" GYPSUM WALL BOARD AT EXTERIOR SIDE - INSTALL 5/8" LB SS STAINLESS STEEL WALL SHIELD (NRC)
	NEW 3 5/8" X 3 5/8" METAL STUD WALL TO MEET 62" X 1 OR PER PLAN WITH STUDS @ 16" O.C. INSTALLED WITH 5/8" LB GYPSUM WALL BOARD @ EACH SIDE - INSTALL WITH NRC RATING PER ATTACH. (1-48)
	NEW 3 5/8" X 3 5/8" METAL STUD WALL TO MEET 62" X 1 OR PER PLAN WITH STUDS @ 16" O.C. INSTALLED WITH 5/8" LB GYPSUM WALL BOARD @ EACH SIDE
	NEW 3 5/8" X 3 5/8" METAL STUD WALL FURRING WITH STUDS @ 16" O.C. INSTALLED WITH 5/8" LB GYPSUM WALL BOARD AT SIDE

ELECTRICAL SYMBOL LEGEND

SYMBOLS	
S	SWITCH FLUSH IN WALL, SINGLE TYPE, HVI
S_2	SWITCH FLUSH IN WALL, TOGGLE DOUBLE POLE, HVI
S_3	SWITCH FLUSH IN WALL, THREE WAY, HVI TOGGLE TYPE
	FLUSH MOUNTABLE FOR ALL (2) OR 3) HVI
	STANDARD DUPLEX RECEPTACLE OUTLET @ 12" A.F.F.
	STANDARD DEDICATED RECEPTACLE OUTLET @ 12" A.F.F.
	DIPLUXE FAULT TRIP GFI WEATHERPROOF RECEPTACLE OUTLET, HVI ALL OUTLETS AT KITCHEN, PANTRY AND BATHROOM SHALL BE G.F.I.
	240V 1Ø 30 AMP RECEPTACLE OUTLET
	TELEPHONE OUTLET, 4 SINGLE WIRE WIRE TO ILLUMINATING CONTRACTOR
	DATA/COMPUTER OUTLET W/ 2 1/2" CONDUIT HOME RUN TO DATA / TELE CLOSET / RACK
	FUSED DISCONNECT SWITCH
	BROAN MODEL L300 COMMERCIAL GRADE EXHAUST FAN CAPABLE OF 300 CFM AIR CHANGES PER HOUR MIN. W. (2) W HEAT TO OUTSIDE AIR. (2) 1/2" - 3/4 CONDS.
	ELECTRICAL BOX - SIZE AS PER CODE
SURFACE	ELECTRICAL SUB PANEL, SURFACE MOUNTED ON WALL
	SMOKE DETECTOR (LISTED FOR LOW RATE SERIES CONNECTED) - SHALL BE POWERED BY BATTERIES AND HARDWIRED BOTH PRIMARY
	CABLE TELEVISION OUTLET
	TER ANCHOR (SEE NOTE 7 DIRECT CONNECTION FLEX CONDUIT - SEAL OF 72" LONG UNLESS OTHERWISE NOTED)
	INTERNALLY ILLUMINATED EXIT SIGN WITH BATTERY BACK UP FOR A DURATION OF 90 MIN
	1 HR DUPLEX OUTLET W/ USB CHARGING PORT @ 18" A.F.F. U.N.O.

ELECTRICAL FIXTURE NOTES

(N1)	LOW OUTLET WITH 1" BOX W/ EMPTY CONDUIT OUT IT INTERSECTS BY WALL OR BACK SPLASH OF FIXTURE - BUILDER'S CONDUIT TO MAIN P.O.S. TERMINAL LOCATED IN THE DATA - SEARY LOCATION AND REQ. W/ MEP AND SUPPLIER
	ELECTRICIAN TO VERIFY REQUIREMENTS FOR ITEMS FURNISHED BY OWNER - LOCAL PLAN REVIEW AND BY THE GENERAL CONTRACTOR PRIOR TO ROUGHING IN

MECHANICAL NOTES

NOTE:
ROOF MOUNTED EQUIPMENT SHALL BE LABELED AS TO THE SPACE IT SERVES.

ALL APPLIANCE AND PLUMBING VENTS AND THE DISCHARGE OUTLET OF EXHAUST FANS SHALL BE AT LEAST 10 FEET IN A HORIZONTAL DIRECTION OR 3 FEET ABOVE THE OUTSIDE AIR INTAKES FOR HVAC UNITS. CMC 502.1.1.

HEATING, VENTILATING AND AIR CONDITIONING SYSTEMS SHALL BE BALANCED IN ACCORDANCE WITH AN APPROVED METHOD PER SECTION 904.1 OF THE CALIFORNIA MECHANICAL CODE.

SEAL ALL DETACHED AREAS OF THE BUILDING THAT ARE MECHANICALLY VENTILATED. PROVIDE PATHS FOR ALL OUTSIDE AND RETURN AIR HAVING A MINIMUM DIM. 6 IN. X 6 IN. FOR ALL WALLS, OVERLAP AT LEAST 12.

AT THE TIME OF ROUGH INSTALLATION, OR DURING STORAGE ON THE CONSTRUCTION SITE AND UNTIL FINAL START-UP OF THE HEATING, COOLING AND VENTILATING EQUIPMENT, ALL DUCT AND OTHER AIR DELIVERY EQUIPMENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEET METAL, OR OTHER ALL EFFECTIVE METHODS TO REDUCE THE AMOUNT OF DUST, WATER, AND DEBRIS WHICH MAY ENTER THE SYSTEM. CALGREEN 5.504.1

AIR CONDITIONING, REFRIGERANT CIRCUIT ACCESS PORTS LOCATED OUTDOORS SHALL BE PROTECTED FROM UNAUTHORIZED ACCESS. CMC 1101.12

AIR RETURN SYSTEMS SUPPLYING AIR IN EXCESS OF 2000 CFM SHALL BE EQUIPPED WITH AN AUTOMATIC SHUTOFF ACTIVATED BY A SMOKE DETECTOR LOCATED IN THE AIRWAY SUPPLY AIR DUCT. A SWITCH MAY NOT LEAVE MORE THAN ONE PIECE OF AC UNIT WHICH SERVES A COMMON SPACE WITH ADEQUATE SUPPLY AIR OF MORE THAN 2000 CFM. CMC 606.3

CONDENSATE DRAIN LINES SHALL BE CONFIGURED OR PROVIDED WITH A CLEAN OUT TO PERMIT THE CLEANING OF BLOCKAGES AND FOR SANITARY ACCESS OF DRAIN LINE TO M. CUT. CMC 310.1.1

N

ELECTRICAL ROUGH-IN PLAN | SCALE 1/4" = 1'-0" | 1

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VICKY'S BUBBLY CAFE
TENANT IMPROVEMENT - KITCHEN RESTAURANT

PROJECT ADDRESS
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REVISIONS

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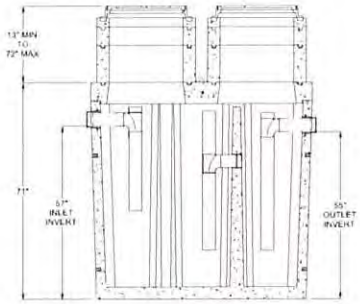
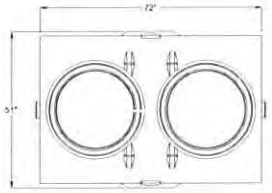
ELECTRICAL ROUGH IN PLAN

SHEET #
A-510

NO. 01 OF 100



CROSS SECTION

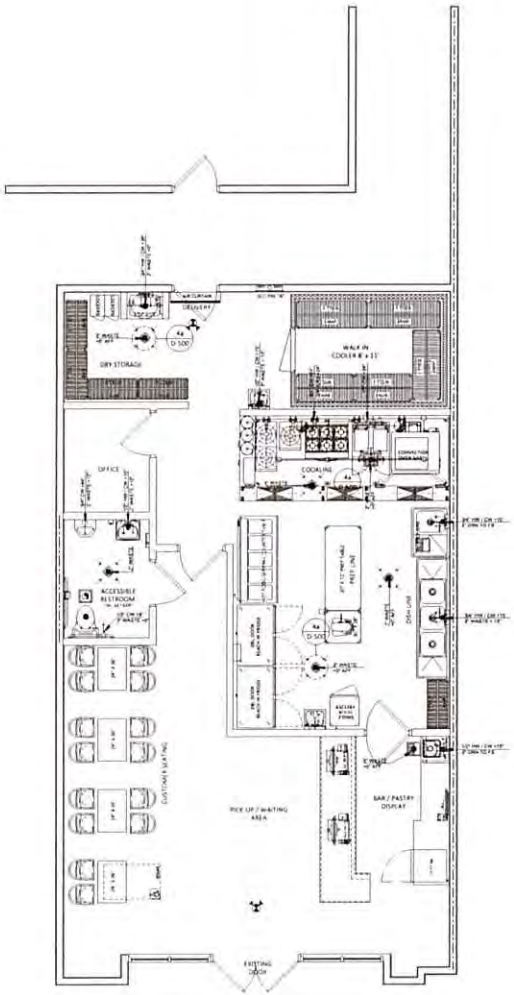


PLAN VIEW

GREASE INTERCEPTOR | SCALE 1/4"=1'-0" | 3

NOTE:

REFER TO SHEET A-501 FOR EQUIPMENT LIST AND SPECS
REFER TO SHEET A-505 FOR EQUIPMENT LAYOUT
REFER TO SHEET A-510 FOR ELECTRICAL ROUGH-IN



PLUMBING ROUGH-IN PLAN | SCALE 1/4"=1'-0" | 1

N

WALL SYMBOL LEGEND

	(E) EXTERIOR CONCRETE TILT UP EXTERIOR WALL TO REMAIN - NO CHANGES
	(E) INTERIOR NON-LOAD BEARING METAL STUD WALL WITH SINGLE GYPSUM WALL BOARD AT BOTH SIDES
	NEW NON-BEARING 3 1/2" METAL STUD WALL @ 16" O.C. - INSTALL WITH MIN 5/8" GYPSUM WALL BOARD AT BOTH SIDES UNLESS OTHERWISE NOTED
	(E) 1-HR FIRE RATED DEMISING WALL 3 1/2" STUDS @ 16" O.C. W/ 5/8" TYPE "X" GYPSUM BOARD BOTH SIDES. CONTRACTOR TO FIELD VERIFY - CONTRACTOR TO RESTORE ALL REQUIRED FIRE RATINGS. AT ANY PENETRATIONS TO FIRE WALL
	(N) 1-HR FIRE RATED NON-DEMISING WALL 6 1/2" x 3 1/2" METAL STUD FURRING WALL @ BACK OF COOKLINE METALS WITH MIN 5/8" TYPE "X" GYPSUM WALL BOARD AT INTERIOR SIDE. INSTALL 24# 18 GA STAINLESS STEEL WALL PANELS OVER
	NEW 18 GA 3 5/8" x 4 1/2" METAL STUD WALL TO HAVE 22" MIN OR PER PLAN WITH STUDS @ 16" O.C. INSTALLED WITH MIN 5/8" GYPSUM WALL BOARD @ EACH SIDE - INSTALL WITH WALL BRACING PER STEAM 96 (-5 AND)
	NEW 18 GA 3 5/8" x 4 1/2" METAL STUD WALL TO HAVE 22" MIN OR PER PLAN WITH STUDS @ 16" O.C. INSTALLED WITH MIN 5/8" GYPSUM WALL BOARD @ EACH SIDE
	NEW 18 GA 3 5/8" x 6 1/2" METAL STUD WALL FURRING WITH STUDS @ 16" O.C. INSTALLED WITH MIN 5/8" GYPSUM WALL BOARD AT STUD

PLUMBING SYMBOL LEGEND

SYMBOL	DESCRIPTION
	COLD WATER SUPPLY AT MIN 5/8" ANGLE STOP - VERIFY WITH APPROVED PLUMBING PLANS
	HOT WATER 120 SUPPLY AT MIN 5/8" ANGLE STOP - VERIFY WITH APPROVED PLUMBING PLANS
	NATURAL GAS CONNECTION - SIZE AS NOTED - STUBS WITH GAS SHUT OFF VALVE
	DIRECT WASTE MIN 2 1/2" ABS, UNLESS OTHERWISE NOTED - VERIFY WITH PLUMBING PLANS
	12" DIAMETER FLOOR DRAIN MEGA LIN STAINLESS STEEL STRAINER
	12" X 12" FLOOR DRAIN WITH GRATE
	2 1/2" MEDIUM PRESSURE GAS SHUT OFF VALVE
	EXISTING 2" WATER SHUT OFF VALVE IN LOCKING VALVE - PROVIDE ALL EQUIPMENT
	EXISTING 2" WATER SUPPLY WATER SUB METER

PLUMBING FIXTURE SCHEDULE

ITEM	DESCRIPTION	WATER	WASTE	GPM	NOTES
	DROP IN / WALL MOUNT HAND SINK	1/2"	2"		DIRECT CONNECT
	DROP IN QUIAR SINK	1/2"	2"		INDIRECT WASTE
	MOP SINK	3/4"	2"		DIRECT CONNECT
	3 COMPARTMENT SINK	3/4"	2"		DIRECT WASTE
	PREP SINK	3/4"	2"		INDIRECT WASTE
	LAVATORY	1/2"	2"		DIRECT CONNECT
	WATER CLOSET	1/2"	3"		DIRECT CONNECT
	GREASE INTERCEPTOR		3"		TWO SUB GRAVITY WITH SAMPLE PORT

PLUMBING NOTES

1. WATER SUPPLY AND DRAIN PIPES UNDER ALL DOUBLE LAVATORIES AND SINKS SHALL BE INSULATED OR OTHERWISE BE CONSTRUCTED TO PROTECT AGAINST CONTACT. PROTECTING, INSULATING OR BOTH SHALL COMPLY WITH SECTION 411.2 OF 5
2. EACH HORIZONTAL VENT SHALL RISE VERTICALLY TO A POINT NOT LESS THAN 6 INCHES IN HEIGHT ABOVE THE FLOOD LEVEL RIM OF THE FIXTURE BEFORE BEING CONNECTED TO ANY OTHER VENT. CPC 906.3
3. FLOOR DRAINS AND SINKS SHALL BE PROVIDED WITH MEANS OF MAKING THEIR WATER SEALS STAY FRESHED CPC 1007.1
4. INDIRECT ON PLANS THAT INDIRECT WASTE PIPING FROM FOOD HANDLING FIXTURES OR EQUIPMENT SHALL BE SEPARATELY PIPED BY MEANS OF AIR GAP TO THE INDIRECT WASTE RECEPTOR AND SHALL NOT BE COMBINED WITH ANY OTHER INDIRECT WASTE PIPING. CPC 802.3
5. HOT SINK, DISHWASHING SINK, AND OTHER SIMILAR FIXTURES SHALL BE CONNECTED DIRECTLY TO THE DRAINAGE SYSTEM. A FLOOR DRAIN SHALL BE PROVIDED UPSTREAM OF THE FIXTURE CONNECTION AND ADJACENT TO THE FIXTURE. NO OTHER DRAINAGE LINE SHALL BE CONNECTED BETWEEN THE FLOOR DRAIN WASTE CONNECTION AND THE FIXTURE DRAIN. CPC 708.3
6. NEW OR REPAIRED POTABLE WATER SYSTEMS SHALL BE DISINFECTED PRIOR TO USE ALLOWING TO THE METHOD SET FI SECTION 609.2 OF THE CALIFORNIA PLUMBING CODE
7. LPCE PLUMBING MATERIAL SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF THE CODE AND THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. CPC 301.2.1
8. INSULATION OF DOMESTIC HOT WATER PIPING SHALL BE IN ACCORDANCE WITH SECTION 609.11.1 AND SECTION 609.11.2
9. INSTALL FLOWER VALVE IN THE IN THE CIRCULATION PUMP LINE ON INTERIOR PLUMBING PIPING. TITLE 24 PART 5 120 (C)3.4
10. INSTALL A HOSE BIBB BETWEEN THE PUMP AND THE WATER HEATING EQUIPMENT. TITLE 24 PART 5 120 (C)3(i)
11. INSTALL AN ISOLATION VALVE BETWEEN THE HOSE BIBB AND THE WATER HEATING EQUIPMENT. TITLE 24 PART 5 120 (C)3(i)
12. INSTALL ISOLATION VALVE ON BOTH SIDES OF THE RE-CIRCULATION PUMP. TITLE 24 PART 5 (C) 3(i)
13. PLUMBING PLANS SHALL BE ATTACHED TO WHICH SET OF PLANS. THEY ARE CURRENTLY STAPLED BUT NOT ATTACHED TO SET OF PLANS
14. ADD THE FOLLOWING NOTE ON THE PLANS: ALL PIPING, INSULATION, WILL BE SELF CLEANING OR SELF CLEANING (TERMINALS ETC.) CPC 301.2.2
15. THE HOT WATER SYSTEM SHALL NOT ALLOW MORE THAN 0.5 GALLONS OF WATER TO BE DELIVERED TO ANY FIXTURE BEFORE HOT WATER ARRIVES CPC 610.3.1

MECHANICAL NOTES

NOTE
NEW MOUNTED EQUIPMENT SHALL BE LABELED AS PER THE SPACE IT SERVES

ALL APPLIANCE AND PLUMBING VENTS AND THE DRAINAGE FIXTURE IN EXHAUST HOOD SHALL BE AT LEAST 10 FEET IN A HORIZONTAL DIRECTION OR 3 FEET AWAY FROM THE OUTSIDE AIR INTAKES FOR AIR ALL UNITS. CMC 502.3.1

HEATING, VENTILATING AND AIR CONDITIONING SYSTEMS SHALL BE SHOWN ED IN ACCORDANCE WITH AN APPROVED METHOD PER SECTION 304.1 OF THE CALIFORNIA MECHANICAL CODE

FOR ALL OCCUPIED AREAS OF THE BUILDING THAT ARE NATURALLY VENTILATED, PROVIDE FILTER FOR ALL OUTDOOR AND RETURN AIR PROVIDE A MINIMUM EFFICIENCY REPORTING VALUE (MERV) OF AT LEAST 8 PER ASHRAE 52.2

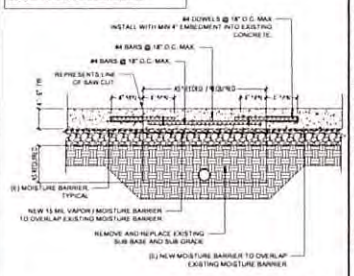
DUCT TO THE TIME OF BUILDER INSTALLATION, OR DURING STORAGE ON THE CONSTRUCTION SITE AND UNTIL FINAL START UP OF THE HEATING, COOLING AND VENTILATING EQUIPMENT, ALL DUCT AND OTHER AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEET METAL OR OTHER ACCEPTABLE METHODS TO REDUCE THE AMOUNT OF DUST, WATER, AND DEBRIS WHICH MAY ENTER THE SYSTEM. CAL GREEN 5.504.3

AIR CONDITIONING REFRIGERANT CIRCUIT ACCESS PORTS LOCATED OUTDOORS SHALL BE PROTECTED FROM VANDALISM/ACCESS. CMC 1305.1.1

AIR HANDLING SYSTEMS SUPPLYING AIR IN EXCESS OF 2000 CFM SHALL BE EQUIPPED WITH AN AUTOMATIC SHUTOFF ACTUATED BY A SMOKE DETECTOR LOCATED IN THE MAIN SUPPLY AIR DUCT. A SYSTEM MAY INCLUDE MORE THAN ONE PIECE OF AC UNIT WHICH SUPPLIES COMMON SPACE WITH AGGREGATE SUPPLY AIR OF MORE THAN 2000 CFM. CMC 608.1

CONDENSATE DRAIN LINES SHALL BE CLEAN OUTS OR PROVIDED WITH A CLEAN OUT TO PERMIT THE CLEANING OF BLOCKAGES AND FOR MAINTENANCE WITHOUT REQUIRING THE DRAIN LINE TO BE CUT. CMC 306.5.1

CONCRETE
f'c = 2500 PSI CONCRETE
REINFORCEMENT
GRADE 60 = #4 REINFORCING BARS OR SMALLER
GRADE 60 = #5 REINFORCING BARS OR LARGER



TRENCH PATCH DETAIL | SCALE 1/4"=1'-0" | 2

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PROJECT TITLE
VICKY'S BUBBLY CAFE
TENANT IMPROVEMENT - KITCHEN RESTAURANT

PROJECT ADDRESS
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REVISIONS

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PRINTED ON: FEB. 24, 2025

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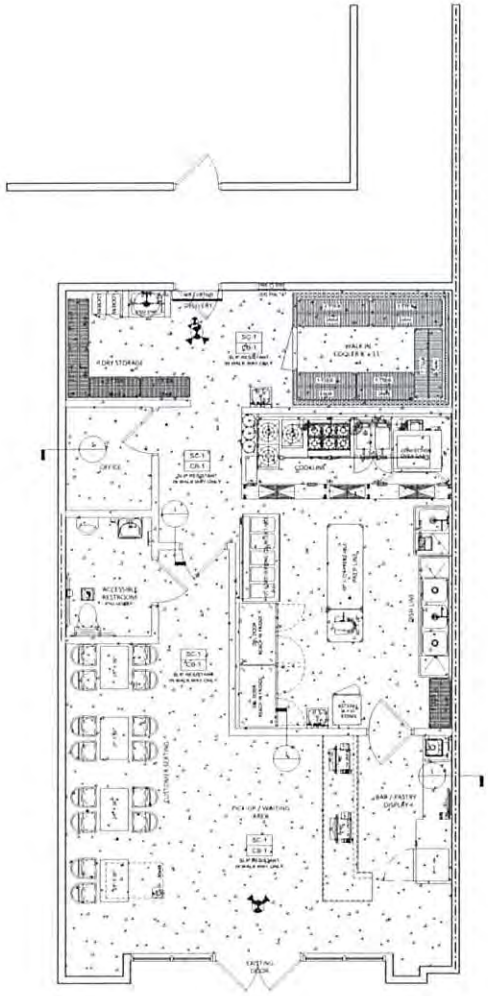
TITLE
PLUMBING ROUGH IN PLAN

SHEET #
A-515

NO. 01 OF 100

NOTE:

REFER TO SHEET A-500 FOR EQUIPMENT LIST AND SPECS
REFER TO SHEET A-505 FOR EQUIPMENT LAYOUT
REFER TO SHEET A-510 FOR ELECTRICAL ROUGH-IN
REFER TO SHEET A-515 FOR PLUMBING ROUGH-IN



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FLOOR FINISH PLAN | SCALE 1/4"=1'-0" | 3

WALL SYMBOL LEGEND

- EXISTING CONCRETE TILT UP EXTERIOR WALL TO REMAIN - NO CHANGES
- 2 X 4 STUD NON LOAD BEARING METAL STUD WALL WITH MIN 5/8" GYPSUM WALL BOARD AT BOTH SIDES
- NEW NON BEARING 2 X 6 METAL STUD WALL @ 16" O.C. INSTALL WITH MIN 5/8" GYPSUM WALL BOARD AT BOTH SIDES UNLESS OTHERWISE NOTED
- 2X 1 HR FIRE RATED STAINING WALL 2 X 6 STUDS @ 16" O.C. W/ 5/8" TYPE "X" GYPSUM BOARD BOTH SIDES - CONTRACTOR TO VALIDATE WITH - CONTRACTOR TO REVIEW ALL RESTAURANT RATINGS WITH PROFESSIONALS FIRST
- 2X 1 HR FIRE RATED NON - LOAD BEARING 3 5/8" X 1 1/2" METAL STUD FURRING WALL @ BACK OF COOKLINE INSTALL WITH MIN 5/8" TYPE "X" GYPSUM WALL BOARD AT INTERIOR SIDE - INSTALL MIN 24 GA STAINLESS STEEL WALL SHIELD OVER
- NEW 18 GA 3 5/8" X 1 1/2" METAL STUD WALL TO MAX 12" AT 1' ON PER PLAN WITH STUDS @ 16" O.C. INSTALLED WITH MIN 5/8" GYPSUM WALL BOARD AT EACH SIDE
- NEW 18 GA 3 5/8" X 1 1/2" METAL STUD WALL TO MAX 12" AT 1' ON PER PLAN WITH STUDS @ 16" O.C. INSTALLED WITH MIN 5/8" GYPSUM WALL BOARD AT EACH SIDE
- NEW 18 GA 3 5/8" X 1 1/2" METAL STUD WALL FURRING WITH STUDS @ 16" O.C. INSTALLED WITH MIN 5/8" GYPSUM WALL BOARD AT 1 SIDE

FLOOR PLAN NOTES

1. SLIM FOOT BASE TILE AND CAST IN - USED ON SEALED CONCRETE
8. ALL FINISHES TO BE FROM APPROVED MATERIALS (ATF) USE AND ARE TO BE DURABLE, SMOOTH, CLEANABLE, IN CLEANABLE, NON-ABSORBENT & NON-SLIPPY REFLECTIVE MATERIALS
9. TILE LINE BASE CERAMIC TILE SET TO BE MADE IN AN INDEPENDENT SEAM FOR MANUAL AND BE PROVIDED AT THE JUNCTURE OF WALLS TO FLOOR
10. FLOORS ARE TO BE SEALED, DURABLE AND EASY CLEANABLE AND SEALED UNDER EQUIPMENT
11. ALL EQUIPMENT INCLUDING WATER HEATER SHALL BE ELEVATED (EXCEPT ETC SHALL BE ON 6" HIGH LEGS) CONTROLLER TOILED MASONRY (CAMPTIN) MIN 5/8" METAL COVE BASE (CAST TO MIN 4" HIGH)
14. BETWEEN FLOOR SHALL HAVE SEALED - NEW NON-ABSORBENT DURABLE AND EASY CLEANABLE SURFACE SUCH AS PORCELAIN CERAMIC CONCRETE, CERAMIC TILE OR OTHER APPROVED MATERIAL WHICH EXTEND UPWARD ONTO WALL AT LEAST 6"
17. THE FOLLOWING SHOP ALL NOT BE LEFT UNDER ANY CIRCUMSTANCES. CARPET, WOOD, WOOD LOOK WOOD, PARTICLE CONCRETE, VINYL COMPOSITION TILE (VCT), RUBBER OR VINYL TOP SET 30-45 BASE

FLOOR FINISHES

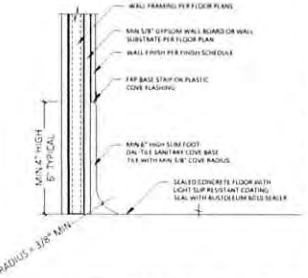
FLOOR FINISH

SEALED CONCRETE - USE RUSTOLEUM AND PENETRATING SEALER. A BROOM GRIT TEXTURE ALLOWING AN EASY CLEAN AND WALK AWAY APPEARANCE

COVE BASE

CB-1 THIN TILE TOP SET 6" HIGH SLIM FOOT SANITARY COVE BASE TILE WITH MIN 3" RADIUS

SCALE 1/4"=1'-0" | 2



TOP SET TILE COVE BASE | SCALE 1/4"=1'-0" | 4

ICON & IKON, INC
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PH: (310) 717-3742

PROJECT TITLE
VICKY'S BUBBLY CAFE
TENANT IMPROVEMENT - KITCHEN RESTAURANT

PROJECT ADDRESS
14782 CRENSHAW,
GARDENA CA, 90250

REVISIONS

NO	DATE	DESCRIPTION
1		
2		
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DRAWN BY: I.J. M
CHECKED BY: I.M
PRINTED ON: FEB. 24, 2025
PERMIT NO:

TITLE
FLOOR FINISH PLAN

SHEET #
A-520
NO. 01 OF 100

FOR QUESTIONS, CALL THE
Los Angeles Office
REGION 81
PHONE: (310) 676 - 8505
EMAIL: reg81@captiveaire.com

PATENT NUMBERS

AC-PSP (UNITED STATES) - US PATENT 7963830 B2
AC-PSP WALL (CANADA) - CA PATENT 2802509
AC-PSP ISLAND (CANADA) - CA PATENT 2502235

HOOD INFORMATION - JOB#7365426

HOOD NO	TAG	MODEL	MANUFACTURER	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH CFM	EXHAUST PLENUM SIZE(S) WIDTH	LENG	HEIGHT	DIA	CFM	VEL	SP	TOTAL SUPPLY CFM	HOOD CONSTRUCTION	HOOD CONFIG END TO END	ROV
1		6024 NB-2-PSP-F	CAPTIVEAIRE	13' 8"	450 DEG	1	MEDIUM	172	2350			4"	10"	1175	2154	-0.946"	1880	430 SS WHERE EXPOSED	ALONE	ALONE
												4"	10"	1175	2154	-0.946"				

HOOD INFORMATION

HOOD NO	TAG	FILTER(S) TYPE	QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	LIGHT(S) QTY	TYPE	WIRE GUARD	UTILITY CABINET(S) LOCATION	SIZE	FIRE SYSTEM TYPE	SIZE	ELECTRICAL MODEL #	SWITCHES QUANTITY	FIRE SYSTEM PIPING	HOOD HANGING WEIGHT
1		CAPTIVEAIRE SOLID FILTER	10	16"	16"	85% SEE FILTER SPEC	4	RECESSED ROUND	NO	LEFT	12"x60"x24"	TANK FS	4.0/4.0/4.0	DCV-2111	1 LIGHT 1 FAN	YES	1197 LBS

HOOD OPTIONS

HOOD NO	TAG	OPTION
1		FIELD WRAPPER 18.00" HIGH FRONT, LEFT.
		BACKSPLASH 60.00" HIGH X 177.50" LONG 430 SS VERTICAL.
		RIGHT SIDESPLASH 60.00" HIGH X 60.00" LONG 430 SS VERTICAL.
		RIGHT END SIDEOFF (FINISHED) 1" WIDE 60" LONG INSULATED.
		BACKSPLASH - INSIDE CORNER 60.00" HIGH X 2.00" LEG LENGTH 430 SS VERTICAL.
		STRUCTURAL FRONT PANEL.
		RISER SENSOR INSTALL 6IN PLEN.
		LEFT VERTICAL END PANEL. 27" TOP WIDTH, 21" BOTTOM WIDTH, 80" HIGH INSULATED 430 SS.
		RIGHT WALL AS END PANEL.

CLEARANCE TO COMBUSTIBLES

HOOD #	SURFACE	CLEARANCE
1	TOP	18"
	FRONT	0"
	BACK	18"
	LEFT	0"
	RIGHT	0"

- 40" CLEARANCE TO COMBUSTIBLES CONFORMS TO UL710 STANDARD.
- HOOD MOUNTED UTILITY CABINETS REQUIRE 36" SERVICE CLEARANCE.

PERFORATED SUPPLY PLENUM(S)

HOOD NO	TAG	POS	LENGTH	WIDTH	HEIGHT	TYPE	RISER(S) WIDTH	LENG	DIA	CFM	SP
1		Front	177"	12"	6"	MUA	8"	36"		606	0.150"
						MUA	8"	36"		606	0.150"
						MUA	8"	36"		606	0.150"

FIRE SYSTEM INFORMATION - JOB#7365426

FIRE SYSTEM NO	TAG	TYPE	SIZE	MAX FP	DESIGN FP	INSTALLATION SYSTEM	LOCATION ON HOOD
1		TANK FS	4.0/4.0/4.0	60	60	FIRE CABINET LEFT	LEFT, HOOD 1

GAS VALVE(S)

FIRE SYSTEM NO	TAG	TYPE	SIZE	SUPPLIED BY
1		SC ELECTRICAL	2.000	CAPTIVEAIRE SYSTEMS

EXHAUST FAN INFORMATION - JOB#7365426

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	MANUFACTURER	CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	SONES
1	KEF-1	1	DUBSHFA	CAPTIVEAIRE	1175	1.100	1232	TEAO-ECM	0.750	0.3380	1	230	5.0	370 FPM	90	9.4
2	KEF-2	1	DUBSHFA	CAPTIVEAIRE	1175	1.100	1232	TEAO-ECM	0.750	0.3380	1	230	5.0	370 FPM	90	9.4

MUA FAN INFORMATION - JOB#7365426

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	BLOWER	HOUSING	MIN OAT	DESIGN CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	MCA	MOCP	EVAP FLOW RATE (GAL/HR)	EVAP COOLER ENTERING DB TEMP	EVAP COOLER ENTERING WB TEMP	EVAP COOLER LEAVING DB TEMP	EVAP COOLER LEAVING WB TEMP	WEIGHT (LBS)	SONES
3	MUA	1	A1-162	162-1-MOD	A1	-	1880	0.500	2189	DSP-ECM	1.750	1.1500	1	208	6.2	8.4A	15A	3.27	90.0°F	64.0°F	72.0°F	64.0°F	496	361

ELECTRICAL PACKAGE - JOB#7365426

NO	TAG	PACKAGE #	LOCATION	SWITCHES LOCATION	SWITCHES QUANTITY	OPTION	FAN CONTROLLED FAN TAG	TYPE	#	HP	VOLT	FLA
1		DCV-2111	UTILITY CABINET LEFT	UTILITY CABINET LEFT	1 LIGHT	SMART CONTROLS DCV	KEF-1	EXHAUST	1	0.750	230	5.0
				HOOD # 1	1 FAN		KEF-2	EXHAUST	1	0.750	230	5.0
							MUA	SUPPLY	1	1.750	208	6.2

SYSTEM DESIGN VERIFICATION (SDV)

IF ORDERED, CAS SERVICE WILL PERFORM A SYSTEM DESIGN VERIFICATION (SDV) ONCE ALL EQUIPMENT HAS HAD A COMPLETE START UP PER THE OPERATION AND INSTALLATION MANUAL. TYPICALLY, THE SDV WILL BE PERFORMED AFTER ALL INSPECTIONS ARE COMPLETE.

ANY FIELD RELATED DISCREPANCIES THAT ARE DISCOVERED DURING THE SDV WILL BE BROUGHT TO THE ATTENTION OF THE GENERAL CONTRACTOR AND CORRESPONDING TRADES ON SITE. THESE ISSUES WILL BE DOCUMENTED AND FORWARDED TO THE APPROPRIATE SALES OFFICE. IF CAS SERVICE HAS TO RESOLVE A DISCREPANCY THAT IS A FIELD ISSUE, THE GENERAL CONTRACTOR WILL BE NOTIFIED AND BILLED FOR THE WORK. SHOULD A RETURN TRIP BE REQUIRED DUE TO ANY FIELD RELATED DISCREPANCY THAT CANNOT BE RESOLVED DURING THE SDV, THERE WILL BE ADDITIONAL TRIP CHARGES.

DURING THE SDV, CAS SERVICE WILL ADDRESS ANY DISCREPANCY THAT IS THE FAULT OF THE MANUFACTURER. SHOULD A RETURN TRIP BE REQUIRED, THE GENERAL CONTRACTOR AND APPROPRIATE SALES OFFICE WILL BE NOTIFIED. THERE WILL BE NO ADDITIONAL CHARGES FOR MANUFACTURER DISCREPANCIES.

SPECIFICATION: CAPTRATE® GREASE-STOP® SOLID FILTER

THE CAPTRATE GREASE-STOP SOLID FILTER IS A SINGLE-STAGE FILTER FEATURING A UNIQUE S-BAFFLE DESIGN IN CONJUNCTION WITH A SLOTTED REAR BAFFLE DESIGN, TO DELIVER EXCEPTIONAL FILTRATION EFFICIENCY.

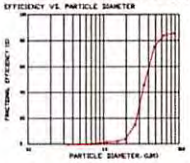
FILTER IS STAINLESS STEEL CONSTRUCTION, AND SIZED TO FIT INTO STANDARD 8-INCH DEEP HOOD CHANNELS).

UNITS SHALL INCLUDE STAINLESS STEEL HANDLES AND A FASTENING DEVICE TO SECURE THE TWO COMPONENTS WHEN ASSEMBLED.

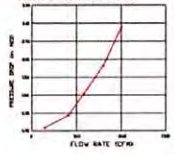
GREASE EXTRACTION EFFICIENCY PERFORMANCE SHALL REMOVE AT LEAST 75% OF GREASE PARTICLES FIVE MICRONS IN SIZE, AND 85% GREASE PARTICLES SEVEN MICRONS IN SIZE AND LARGER, WITH A CORRESPONDING PRESSURE DROP NOT TO EXCEED 1.0 INCHES OF WATER GAUGE.

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

EFFICIENCY VS. PARTICLE DIAMETER



PRESSURE DROP VS. FLOW RATE



CAPTRATE FILTERS ARE BUILT IN COMPLIANCE WITH:
NFPA 96,
NSF STANDARD 82,
UL STANDARD #1046,
INT. MECH. CODE (IMC),
ULC-S649

Operation of All CaptiveAire Equipment to be Verified by Factory Service Technician. Equipment Must be Operational and Fire System shall be Hooked-up and Armed. Report to be Sent to Customer by Manufacturer When Complete.

FOR QUESTIONS CALL:
NICK FURBISH
LOS ANGELES SALES OFFICE
REFERENCE JOB NUMBER
PHONE: 310.676.8505 REG81@CAPTIVEAIRE.COM

REVISIONS
DESCRIPTION | DATE

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www.CAPTIVEAIRE.COM
Los Angeles Office
1919 14th St. Suite 714, Santa Monica, CA. 90404 PHONE: (310) 676 - 8505 FAX: 310-776-0303 EMAIL: reg81@captiveaire.com

Vicky's Bubbly Cafe - Gardena, CA Rev1
14782 Crenshaw Boulevard,
Gardena, CA, 90249

DATE: 2/25/2025
DWG.#: 7365426
DRAWN BY: NFT-81
SCALE: 3/4" = 1'-0"
MASTER DRAWING
SHEET NO. 1

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PROJECT TITLE
VICKY'S BUBBLY CAFE
TENANT IMPROVEMENT - KITCHEN RESTAURANT

PROJECT ADDRESS
14782 CRENSHAW,
GARDENA CA, 90250

REVISIONS
NO	DATE	DESCRIPTION
1		
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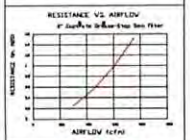
DRAWN BY: I.I. M
CHECKED BY: I.M
PRINTED ON: FEB. 24, 2025
PERMIT NO
TITLE
CAPTIVE AIR
TYPE 1 HOOD
DRAWING

SHEET #
A-530

NO. 01 OF 100

Captrate
Grease-Stop Solo Filter



Filter Detail

CAPTRATE®

EXHAUST CFM=LENGTH OF HOOD X CFM/LIN.FT. (LINE)

SUPPLY CFM=EXHAUST CFM X PERCENTAGE REQUIRED

TOTAL DUCT AREA=144 X CFM / (FPM)

DUCT LENGTH= TOTAL DUCT AREA / DUCT DEPTH

GREASE-STOP SOLO FILTER IS ETL LISTED UNDER FILE NUMBER 3044139-102 AND COMPLIES WITH UL1046 STANDARD. NSF STANDARD 42 WITH 99 AND 100

*CAPTIVE-AIRE VENTILATOR DUCT SIZES ARE CALCULATED USING AN EXHAUST VELOCITY OF 1000-1500 FPM AND A SUPPLY VELOCITY OF 600 FPM PLEASE CONSULT FACTORY FOR MAXIMUM ALLOWABLE DUCT SIZES.

CALCULATIONS UTILIZED

CAPTIVE-AIRE HOODS ARE BUILT IN COMPLIANCE WITH

- NFPA 96
- U.M.C. 2015-19
- U.P.C. 2015-19
- UNIFORM FIRE & EN MC 54127
- ETL LISTED 3044139-102
- LOS ANGELES ORDINANCE
- ETL & LISTED TO NSF STANDARDS

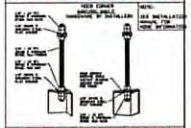
NFPA®

Intertek

BUILDING CODES

GREASE CUP WILL BE SUPPORTED BY TWO STUDS ON THE INSIDE WALL OF THE HOOD. THE GREASE WILL DRAIN THROUGH A CONCEALED GREASE TROUGH AND INTO THIS REMOVABLE/CLEANABLE CUP.

1/2 Pint Grease Cup Detail

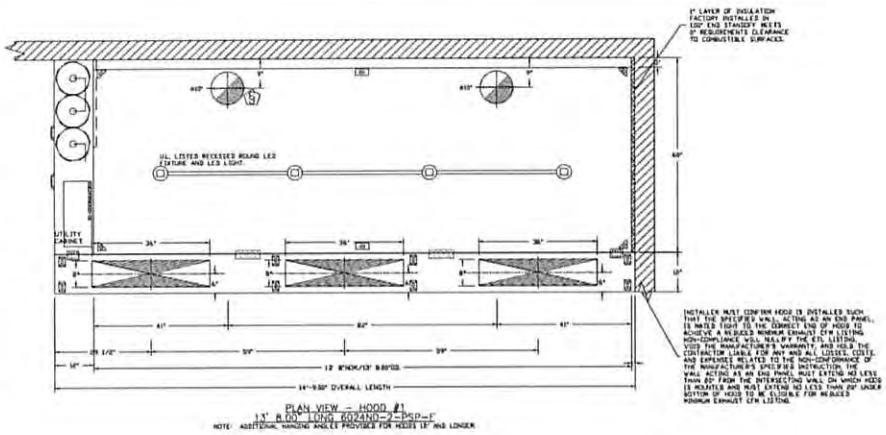


NO-2 HANGING ANGLE DETAIL

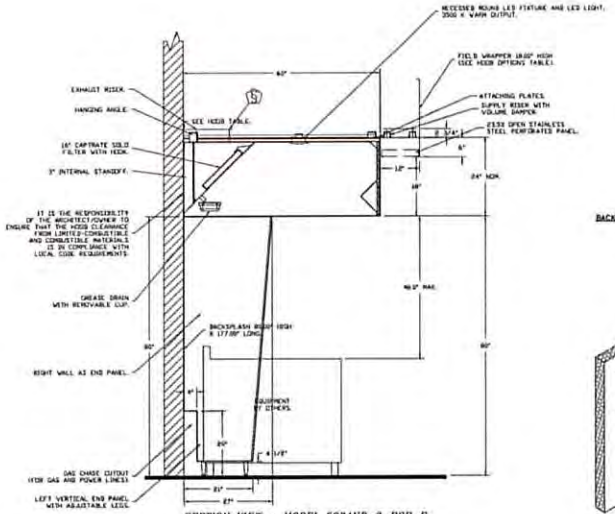
HANGING ANGLES WILL BE LOCATED IN THE FOLLOWING LOCATIONS FOR WALL CANOPIES

HOOD STYLE		DIM FROM REAR	DIM FROM FRONT (24" High Hood)	DIM FROM FRONT (30" High Hood)
Wall	Exhaust Only	4.166"	2.25"	2.25"
	With MUA		2.25"	2.25"
Back Shelf	Exhaust Only	4.166"	2.25"	2.25"
	With MUA		2.25"	2.25"
Condensate		2.25"	2.25"	

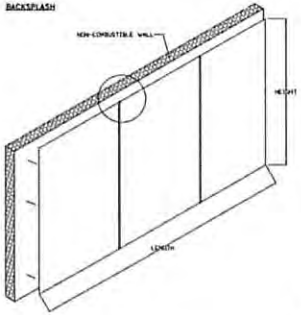
HANGING ANGLE LOCATIONS



PLAN VIEW – HOOD #1
13' 9.00" LONG 6024ND-2-PSP-F
NOTE: ADDITIONAL HANGING ANGLES PROVIDED FOR HOODS 10' AND LONGER

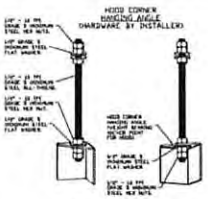


SECTION VIEW – MODEL 6024ND-2-PSP-F
HOOD – #1



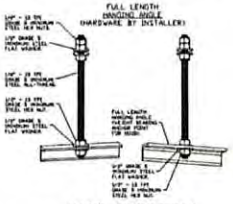
BACKSPLASH PANELS SLIDE INTO SUPPORT BAR

- BACKSPLASH IS NOT REMOVABLE AND IS UNSUITABLE FOR UTILITY BASED COMBUSTIBLE WALLS



ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 OHINDUMO ALL-THREAD. SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 OHINDUMO STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 OHINDUMO HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION BENEATH HOOD HANGING ANGLES AND ABOVE CEILING ANCHORS. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.



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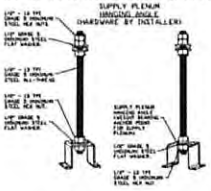

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NOTE

ALL WALLS THAT COME WITHIN 18" OF THE HOOD MUST BE METAL STUD AND SHEETROCK.
IF WOOD STUDS FACTORY INSTALLED INSULATION REQUIRED, PLEASE ADVISE CAPTIVE AIRE PRIOR TO FABRICATION.

NOTE: Exhaust Collar Must be Factory Installed If A Different Size Or Location Is Required. Please Note Change On Submittal.

Rear Discharge Is Available. Contact Captiveaire For Pressure Locations.

REVISIONS

DESCRIPTION	DATE

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1616 14th St. Suite 214 Santa Monica, CA 90404 PHONE: (310) 576-3933 FAX: 9197476763 EMAIL: mgill@captiveaire.com

Vicky's Bubbly Cafe - Gardena, CA Rev1
14782 Crenshaw Boulevard,
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DATE: 2/25/2025
DWG.#: 7365426
DRAWN BY: NFF-81
SCALE: 3/4" = 1'-0"
MASTER DRAWING
SHEET NO. 2

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LICENSED ARCHITECT
CHRISTOPHER A. HARRIS
No. 26627
Exp. 11-30-26
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PROJECT TITLE
VICKY'S BUBBLY CAFE
TENANT IMPROVEMENT - KITCHEN RESTAURANT

PROJECT ADDRESS
14782 CRENSHAW,
GARDENA CA, 90250

REVISIONS

NO	DATE	DESCRIPTION
1		
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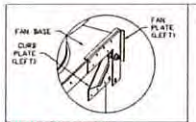
DRAWN BY: D.M
CHECKED BY: I.M
PRINTED ON: FEB. 24, 2025
PERMIT NO.

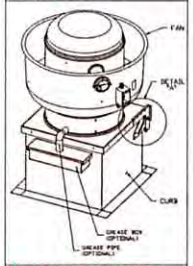
TITLE
CAPTIVE AIR
TYPE 1 HOOD
DRAWING

SHEET #
A-531

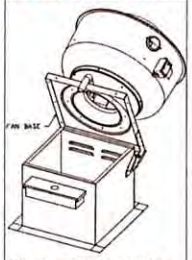
NO. 01 OF 100



HINGE KIT DETAIL

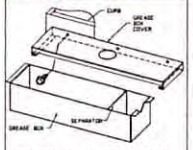


FAN IN CLOSED POSITION



ATTENTION: INSTALLER SHOULD SUPPLY FLEXIBLE ELECTRICAL CORD TO LET FAN MAKE COMPLETE 12" SWING

FAN IN OPEN POSITION



ATTACH GREASE BOX COVER TO THE CURB 2" BELOW TOP EDGE OF CURB.
USING (3) LONG (3/4") LEX SCREWS AS SHOWN.
INSTALL GREASE PIPE AS SHOWN

GREASE BOX INSTALLATION

1. A PRE-WIRED ELECTRICAL CONTROL PACKAGE SHALL BE PROVIDED TO OPERATE THE HOOD LIGHTS AND FANS.
2. PACKAGE SHALL CONSIST OF SWITCH PANEL WITH LIGHT INDICATORS AND ISOLATORS FOR INDIVIDUAL STARTING OF EACH FAN, AND A SEPARATE SWITCH FOR THE HOOD LIGHTS. PROVIDE (1) SPARE SWITCH FOR MULTI-SPEED FANS, LIGHTS, AND A SPARE FOR GREASE-FAN FOR FUTURE INTERCONNECTION.
3. ONE RELAY PLACED TO INTERCONNECT OF ALL SYSTEMS FOR SHUTDOWN OF ALL SYSTEMS WITHIN THE HOOD SEGMENT FOR FIRE-ALARM, FIRE SYSTEM INTERCONNECTION.
4. ELECTRICAL CONDUIT RUNS FROM THE PANELS SHALL BE INDICATED ON THE ELECTRICAL PLANS. THE "TRAILER" PORTION OF THE CONDUIT, WIRING AND PANELS SHALL BE SUPPLIED BY THE ELECTRICAL CONTRACTOR.

ELECTRICAL PACKAGE NOTES

FAN OPTIONS

FAN UNIT NO	TAG	QTY	DESCRIPTION
1	KEF-1	1	GREASE BOX
		1	FAN BASE CERAMIC SEAL - DUFORNSHFA - INSTALLED AT PLANT - FOR GREASE DUCTS
		1	ECM WIRING PACKAGE - EXHAUST - MODBUS CONTROL -MSC- (TELCO), CCW ROTATION
		1	2 YEAR PARTS WARRANTY
2	KEF-2	1	GREASE BOX
		1	FAN BASE CERAMIC SEAL - DUFORNSHFA - INSTALLED AT PLANT - FOR GREASE DUCTS
		1	ECM WIRING PACKAGE - EXHAUST - MODBUS CONTROL -MSC- (TELCO), CCW ROTATION
		1	2 YEAR PARTS WARRANTY
3	MUA	1	SIZE 1 UNTEMPERED COMMERCIAL DOWN DISCHARGE FOR DIRECT DRIVE AHUS
		1	EVAPORATIVE COOLER WIRING HARNESS
		1	ECM WIRING PACKAGE-SUPPLY - MODBUS CONTROL -MSC- (1 PHASE ZIEHL MOTOR)
		1	2 YEAR PARTS WARRANTY

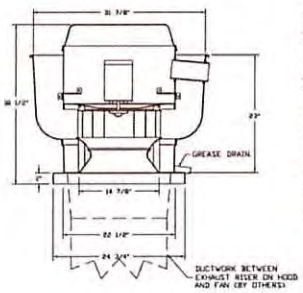
FAN ACCESSORIES

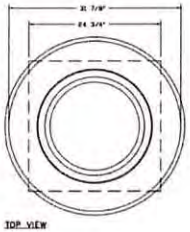
FAN UNIT NO	TAG	EXHAUST			SUPPLY			
		GREASE CUP	GRAVITY DAMPER	WALL MOUNT	SIDE DISCHARGE	GRAVITY DAMPER	MOTORIZED DAMPER	WALL MOUNT
1	KEF-1	YES						
2	KEF-2	YES						
3	MUA							

CURB ASSEMBLIES

NO	ON FAN	TAG	WEIGHT	ITEM	SIZE
1	# 1	KEF-1	36 LBS	CURB	23.000"W X 23.000"L X 20.000"H. VENTED HINGED
2	# 2	KEF-2	36 LBS	CURB	23.000"W X 23.000"L X 20.000"H. VENTED HINGED
3	# 3	MUA	49 LBS	CURB	21.000"W X 21.000"L X 14.000"H.
	# 3			RAIL	4.000"W X 4.000"L X 36.000"H.
	# 3			RAIL	4.000"W X 4.000"L X 36.000"H.

FANS #1 (KEF-1), #2 (KEF-2) - DUFORNSHFA EXHAUST FAN





TOP VIEW

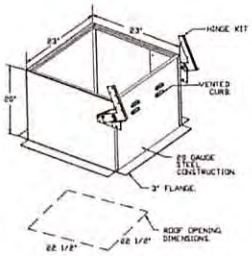
FEATURES:

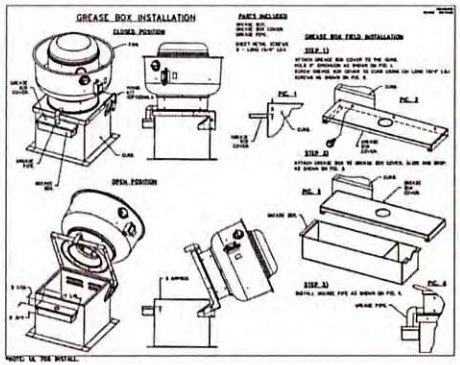
- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS)
- ROOF MOUNTED FANS.
- RESTAURANT MODEL.
- UL705 AND UL762 AND ULC-S645
- VARIABLE SPEED CONTROL.
- INTERNAL WIRING
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE)
- HIGH HEAT OPERATION 300°F (149°C)
- GREASE CLASSIFICATION TESTING
- NEMA 3R SAFETY DISCONNECT SWITCH

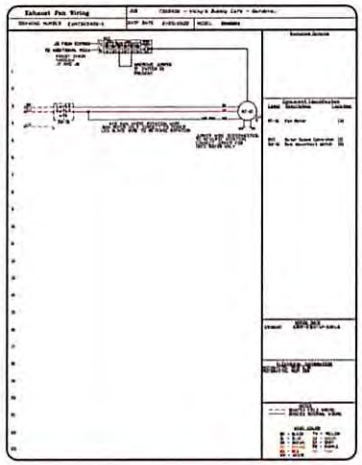
NORMAL TEMPERATURE TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

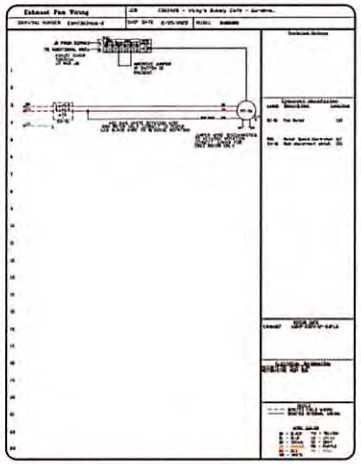
ABNORMAL FLARE-UP TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

OPTIONS
- GREASE BOX
- FAN BASE CERAMIC SEAL - DUFORNSHFA - INSTALLED AT PLANT - FOR GREASE DUCTS
- ECM WIRING PACKAGE - EXHAUST - MODBUS CONTROL -MSC- (TELCO), CCW ROTATION
- 2 YEAR PARTS WARRANTY.









REVISIONS

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Vicky's Bubbly Cafe - Gardena, CA Revi
14782 Crenshaw Boulevard,
Gardena, CA, 90249

DATE: 2/25/2025
DWG.#: 7365426
DRAWN BY: NFY-81
SCALE: 3/4" = 1'-0"
MASTER DRAWING
SHEET NO. 3

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PROJECT TITLE
VICKY'S BUBBLY CAFE
TENANT IMPROVEMENT - KITCHEN RESTAURANT

PROJECT ADDRESS
14782 CRENSHAW,
GARDENA CA, 90250

REVISIONS

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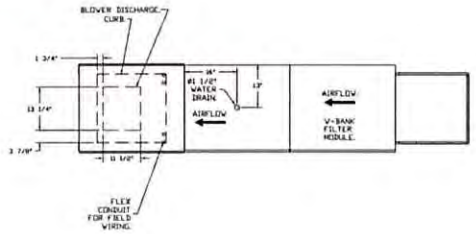
DRAWN BY: I.I. M
CHECKED BY: I.M
PRINTED ON: FEB. 24, 2025
PERMIT NO
TITLE
CAPTIVE AIR
TYPE 1 HOOD
DRAWING

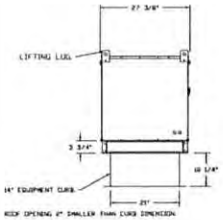
SHEET #
A-532

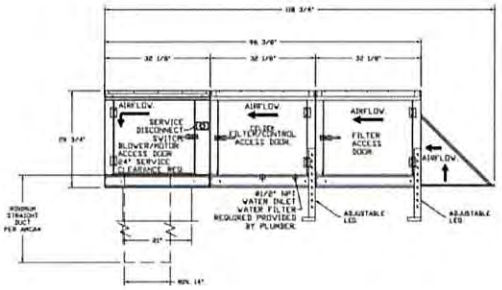
NO. 01 OF 100

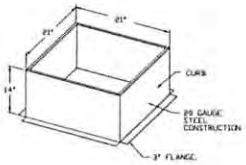
FAN #3 AU-162 - SUPPLY FAN (NUA)
1. UNITEMPERED SUPPLY UNIT WITH 10" DIRECT DRIVE FAN IN SIZE #1 HOUSING
2. EVAP COOLER (CELDEK) & V-BANK WITH 2" 14-13 FILTERS - OUTDOOR
3. DOWN DISCHARGE - AIR FLOW RIGHT -> LEFT.
4. DOWN DISCHARGE CONSTRUCTION FOR SIZE 1 UNTEMPERED DIRECT DRIVE AHUS.
5. 120V WIRING CONNECTION TO ENERGIZE EVAPORATIVE COOLERS FROM UNTEMPERED SUPPLY FANS.
6. ECM WIRING PACKAGE MODBUS CONTROL FOR SUPPLY EC SINGLE PHASE ZIDAL FANS. KIC CONTROLLER
7. HINGED DOUBLE WALL INSULATED DOOR ASSEMBLY (BURNER/BLOWER/EVAP SECTION).
8. 2 YEAR PARTS WARRANTY.

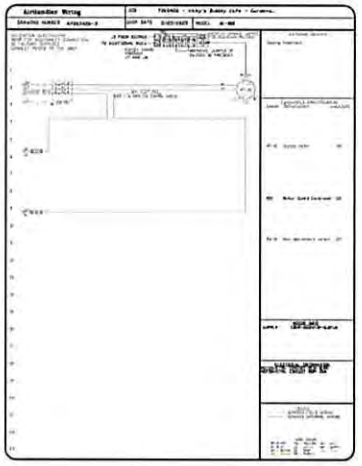
NOTE: SUPPLY DUCT MUST BE INSTALLED TO MEET SMACNA STANDARDS. A MINIMUM STRAIGHT DUCT LENGTH MUST BE MAINTAINED DOWNSTREAM OF UNIT DISCHARGE AS OUTLINED IN ARCA PUBLICATION 205. WHEN USING RECTANGULAR DUCTWORK, ELBOWS MUST BE RADIUS THROAT, RADIUS BACK WITH TURNING VANES. FLEXIBLE DUCTWORK AND SQUARE THROAT/SQUARE BACK ELBOWS SHOULD NOT BE USED. ANY TRANSITION AND/OR TURNS IN THE DUCTWORK WILL CAUSE SYSTEM EFFECT. SYSTEM EFFECT WILL DRASTICALLY INCREASE STATIC PRESSURE AND REDUCE AIRFLOW. DO NOT RELY ON UNIT TO SUPPORT DUCT IN ANY WAY. FAILURE TO PROPERLY SIZE DUCTWORK MAY CAUSE SYSTEM EFFECTS AND REDUCE PERFORMANCE OF THE EQUIPMENT. SUGGESTED STRAIGHT DUCT SIZE IS 14" x 14".

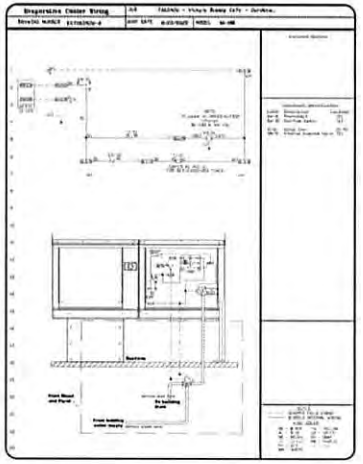












REVISIONS

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DWG.#: 7365426
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SCALE: 3/4" = 1'-0"
MASTER DRAWING
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PROJECT TITLE
VICKY'S BUBBLY CAFE
TENANT IMPROVEMENT - KITCHEN RESTAURANT

PROJECT ADDRESS
14782 CRENSHAW, GARDENA CA, 90250

REVISIONS

NO.	DATE	DESCRIPTION
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CHECKED BY: I.M
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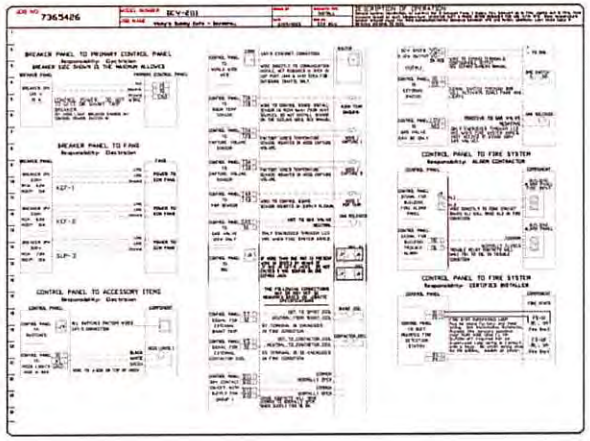
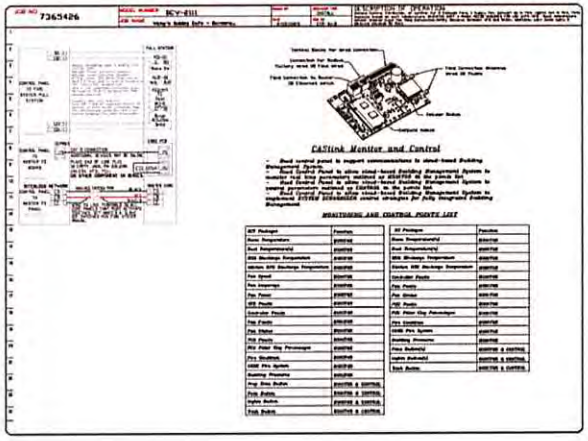
PERMIT NO.
TITLE
CAPTIVE AIR TYPE 1 HOOD DRAWING

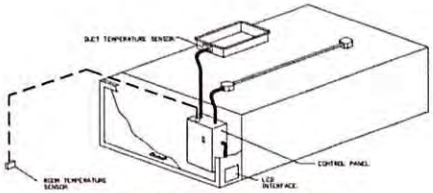
SHEET #
A-533
NO. 01 OF 100





DEMAND CONTROL VENTILATION HOOD CONTROL PANEL SPECIFICATIONS:

- CONTROLS SHALL BE LISTED BY ETL (UL 508A) AND SHALL COMPLY WITH DEMAND VENTILATION SYSTEM TURNDOWN REQUIREMENTS OUTLINED IN (ECC 403.7.3 (2021).
- THE CONTROL ENCLOSURE SHALL BE NEMA 1 RATED AND LISTED FOR INSTALLATION INSIDE OF THE EXHAUST HOOD UTILITY CABINET. THE CONTROL ENCLOSURE MAY BE CONSTRUCTED OF STAINLESS STEEL OR PAINTED STEEL.
- TEMPERATURE PROBE(S) LOCATED IN THE EXHAUST DUCT RISER(S) SHALL BE CONSTRUCTED OF STAINLESS STEEL.
- A DIGITAL CONTROLLER SHALL BE PROVIDED TO ACTIVATE THE HOOD EXHAUST FANS DYNAMICALLY BASED ON A FIXED DIFFERENTIAL BETWEEN THE AMBIENT AND DUCT TEMPERATURES SENSORS. THIS FUNCTION SHALL MEET THE REQUIREMENTS OF IMC 507.1.1.
- A DIGITAL CONTROLLER SHALL PROVIDE ADJUSTABLE HYSTERESIS SETTINGS TO PREVENT CYCLING OF THE FANS AFTER THE COOKING APPLIANCES HAVE BEEN TURNED OFF AND/OR THE HEAT IN THE EXHAUST SYSTEM IS REDUCED.
- A DIGITAL CONTROLLER SHALL PROVIDE AN ADJUSTABLE MINIMUM FAN RUN-TIME SETTING TO PREVENT FAN CYCLING.
- VARIABLE FREQUENCY DRIVES (VFDS) SHALL BE PROVIDED FOR FANS AS REQUIRED. THE DIGITAL CONTROLLER SHALL MODULATE THE VFDS BETWEEN A MINIMUM SETPOINT AND A MAXIMUM SETPOINT ON DEMAND. THE DUCT TEMPERATURE SENSOR INPUT(S) TO THE DIGITAL CONTROLLER SHALL BE USED TO CALCULATE THE SPEED REFERENCE SIGNAL.
- THE VFD SPEED RANGE OF OPERATION SHALL BE FROM 0% TO 100% FOR THE SYSTEM, WITH THE ACTUAL MINIMUM SPEED SET AS REQUIRED TO MEET MINIMUM VENTILATION REQUIREMENTS.
- AN INTERNAL ALGORITHM TO THE DIGITAL CONTROLLER SHALL MODULATE SUPPLY FAN VFD SPEED PROPORTIONAL TO ALL EXHAUST FANS THAT ARE LOCATED IN THE SAME FAN GROUP AS THE SUPPLY FAN.
- THE SYSTEM SHALL OPERATE IN PREP MODE DURING LIGHT COOKING LOAD OR COOL DOWN MODE WHEN SUFFICIENT HEAT REMAINS UNDERNEATH THE HOOD SYSTEM AFTER COOKING OPERATIONS HAVE COMPLETED. OPERATION DURING EITHER OF THESE PERIODS WILL DISABLE THE SUPPLY FANS AND PROVIDE AN EXHAUST FAN SPEED THAT IS EQUAL TO THE MINIMUM VENTILATION REQUIREMENT.
- A DIGITAL CONTROLLER SHALL DISABLE THE SUPPLY FAN(S), ACTIVATE THE EXHAUST FAN(S), ACTIVATE THE APPLIANCE SHUNT TRIP, AND DISABLE AN ELECTRIC GAS VALVE AUTOMATICALLY WHEN FIRE CONDITION IS DETECTED ON A COVERED HOOD.
- A DIGITAL CONTROLLER SHALL ALLOW FOR EXTERNAL BMS FAN CONTROL VIA DRY CONTACT (EXTERNAL CONTROL SHALL NOT OVERRIDE FAN OPERATION LOGIC AS REQUIRED BY CODE).
- AN LCD INTERFACE SHALL BE PROVIDED WITH THE FOLLOWING FEATURES:
  A. ON/OFF PUSH BUTTON FAN & LIGHT SWITCH ACTIVATION.
  B. INTEGRATED GAS VALVE RESET FOR ELECTRONIC GAS VALVES (NO RESET RELAY REQUIRED).
  C. VFD FAULT DISPLAY WITH AUDIBLE & VISUAL ALARM NOTIFICATION.
  D. DUCT TEMPERATURE SENSOR FAILURE DETECTION WITH AUDIBLE & VISUAL ALARM NOTIFICATION.
  E. MIS-WIRED DUCT TEMPERATURE SENSOR DETECTION WITH AUDIBLE & VISUAL ALARM NOTIFICATION.
  F. A SINGLE LOW VOLTAGE CAT-5 RJ45 WIRING CONNECTION.
  G. AN ENERGY SAVINGS INDICATOR THAT UTILIZES MEASURED KWH FROM THE VFDS.



TYPICAL HOOD CONTROL PANEL INSTALLATION

SEQUENCE OF OPERATIONS:

THE HOOD CONTROL PANEL IS CAPABLE OF OPERATING IN ONE OR MORE OF THE FOLLOWING STATES AT ANY GIVEN TIME:

- AUTOMATIC: THE SYSTEM OPERATES BASED ON THE DIFFERENTIAL BETWEEN ROOM TEMPERATURE AND THE TEMPERATURE AT THE HOOD CAVITY OR EXHAUST DUCT COLLAR. FANS ACTIVATE AT A CONFIGURABLE TEMPERATURE DIFFERENTIAL THRESHOLD. DEPENDING ON THE JOB CONFIGURATION EACH FAN ZONE CAN BE CONFIGURED AS STATIC OR DYNAMIC. THESE TERMS REFER TO WHETHER A VARIABLE MOTOR (SUCH AS EC MOTORS OR VFD DRIVEN MOTORS) MODULATE WITH TEMPERATURE. IF THE PANEL IS EQUIPPED WITH VARIABLE SPEED FANS AND THE ZONE IS DEFINED AS "DYNAMIC", THESE WILL MODULATE WITHIN A USER-DEFINED RANGE BASED ON THE TEMPERATURE DIFFERENTIAL. PANELS EQUIPPED WITH VARIABLE SPEED FANS AND A FAN ZONE DEFINED AS "STATIC", FANS WILL RUN AT A SET SPEED. CALCULATED FOR THE DRIVE. DEMAND CONTROL VENTILATION SYSTEMS ARE CAPABLE OF MODULATING EXHAUST AND MAKE UP AIR FAN SPEEDS PER THE REQUIREMENTS OUTLINED IN (ECC 403.7.3 (2021).
- MANUAL: THE SYSTEM OPERATES BASED ON HUMAN INPUT FROM AN HMI.
- SCHEDULE: A WEEKLY SCHEDULE CAN BE SET TO RUN FANS FOR A SPECIFIED PERIOD THROUGHOUT THE DAY. THERE ARE THREE OCCUPIED TIMES PER DAY TO ALLOW FOR THE USER TO SET UP A TIME THAT IS SUITABLE TO THEIR NEEDS. ANY TIME THAT IS WITHIN THE DEFINED OCCUPIED TIME, THE SYSTEM WILL RUN AT MODULATION MODE AND FOLLOW THE FAN PROCEDURE ALGORITHM BASED ON TEMPERATURE DURING THIS TIME. DURING UNOCCUPIED TIME, THE SYSTEM WILL HAVE AN EXTRA OFFSET TO PREVENT UNINTENDED ACTIVATION OF THE SYSTEM DURING A TIME WHERE THE SYSTEM IS NOT BEING OCCUPIED.
- OTHER: THE SYSTEM OPERATES BASED ON THE INPUT FROM AN EXTERNAL SOURCE (DDC, BMS OR HARD-WIRED INTERLOCK).
- FIRE: UPON ACTIVATION OF THE HOOD FIRE SUPPRESSION SYSTEM, THE EXHAUST FAN WILL COME ON OR CONTINUE TO TO RUN, THE HOOD MAKEUP AIR WILL SHUTDOWN, AND A SIGNAL WILL BE SENT FOR ACTIVATING THE SHUNT TRIP BREAKER PROVIDED BY THE ELECTRICIAN. FUEL GAS WILL SHUT OFF VIA A MECHANICAL/ELECTRICAL GAS VALVE ACTUATED BY THE HOOD FIRE SUPPRESSION SYSTEM.

REVISIONS

DESCRIPTION	DATE
1	
2	
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4	

CAPTIVE-AIRE

Los Angeles Office

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14782 Crenshaw Boulevard,
Gardena, CA, 90249

DATE: 2/25/2025

DWG.#: 7365426

DRAWN BY: NFT-81

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

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PROJECT TITLE
VICKY'S BUBBLY CAFE
TENANT IMPROVEMENT - KITCHEN RESTAURANT

PROJECT ADDRESS
14782 CRENSHAW,
GARDENA CA, 90250

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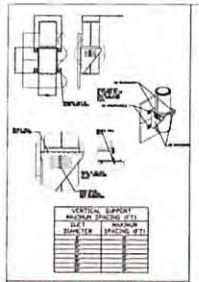
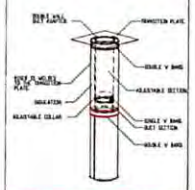
TITLE
CAPTIVE AIR
TYPE 1 HOOD
DRAWING

SHEET #
A-535

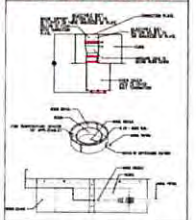
NO. 01 OF 100



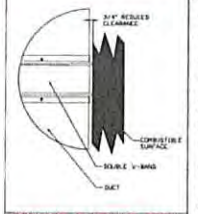
DUCT SUPPORT ASSEMBLY



TRANSITION PLATE DETAIL



OUTER DUCT BAND DETAIL



REDUCED CLEARANCE DETAIL

1. DUCT RUN TO BE FIELD VERIFIED. PARTS SUBJECT TO CHANGE
2. DUCT RUNS TO HAVE DIAMETERS SHOWN, 1ST, AND EVERY CHANGE OF DIRECTION UNLESS SPECIFIED OTHERWISE
3. VERTICAL HANGING SUPPORTS TO BE PER SUPPORT DETAIL TABLE TO BEGIN HORIZONTAL HANGING SUPPORTS TO BE PER SUPPORT DETAIL TABLE ON PLANS.
4. ADJUSTABLE DUCT SECTION TO BE INSTALLED FOR 1" VARIES BASED DIMENSION IS 8" (1" MINIMUM) OR 12" (2" MINIMUM).
5. 1/4" CLEARANCE TO COMBUSTIBLES IS FROM OUTER WALL. V-BAND IS LISTED TO BE ALWAYS SURFACE.

DUCTWORK NOTES

DUCTWORK #1 PARTS - JOB#7365426 DOUBLE WALL

TAG	PART #	CFM	GPM	ZONE	COVERED BY	SP	WEIGHT	VELOCITY	QTY	DESCRIPTION
HI-E1	DW14DWRISER-2R-S	1175				-0.946	6.45	0.00	1	DOUBLE WALL RISER COVER - USED ON 10" INNER RISER, 4" LONG - 2 LAYERS REDUCED CLEARANCE - 14" STAINLESS STEEL OUTER RISER SHELL ASSEMBLY. INCLUDES INSULATION & SINGLE V CLAMPS FOR INNER & OUTER CONNECTIONS.
HI-E2	DW14DWRISER-2R-S	1175				-0.946	6.45	0.00	1	DOUBLE WALL RISER COVER - USED ON 10" INNER RISER, 4" LONG - 2 LAYERS REDUCED CLEARANCE - 14" STAINLESS STEEL OUTER RISER SHELL ASSEMBLY. INCLUDES INSULATION & SINGLE V CLAMPS FOR INNER & OUTER CONNECTIONS.
P1	DW1047DWLT-2R-S	1175				-0.0454	47.26	2154.32	1	DOUBLE WALL DUCT - 10" INNER DUCT, 47" LONG - 2 LAYERS REDUCED CLEARANCE - 14" STAINLESS STEEL OUTER SHELL.
SYSTEM AT P1						-1.0368	0.00			
P2	DW1047DWAJD-2R-S	1175				-0.0454	72.54	2154.32	1	DOUBLE WALL ADJUSTABLE DUCT - 10" INNER DUCT - 2 LAYERS REDUCED CLEARANCE - 14" STAINLESS STEEL OUTER SHELL. MIN LENGTH = 11" / MAX LENGTH = 49.5" / ADJUSTMENT = 38.5" / ADJUSTABLE SECTION MAY NEED TO BE CUT. INCLUDES SINGLE AND DOUBLE WALL "V" CLAMPS.
SYSTEM AT P2						-1.0368	0.00			
P3 ASSEMBLED W/P4	DW1035DWLTTP-2R-S	1175				-0.0339	36.31	2154.32	1	DOUBLE WALL DUCT - 10" INNER DUCT, 35" LONG - 2 LAYERS REDUCED CLEARANCE - 14" STAINLESS STEEL OUTER SHELL - USED WITH TRANSITION PLATE.
SYSTEM AT P3						-1.0706	0.00			
P4 ASSEMBLED W/P3 0+8	DW2310TPDECK	1175					8.00	2154.32	1	DUCT TO CURB TRANSITION 3/4" DOWN TURN, 23" CURB TO 10" DUCT, 16 GA ALUMINIZED. FOR USE WITH EXHAUST FANS.
P5	DW1047DWLT-2R-S	1175				-0.0454	47.26	2154.32	1	DOUBLE WALL DUCT - 10" INNER DUCT, 47" LONG - 2 LAYERS REDUCED CLEARANCE - 14" STAINLESS STEEL OUTER SHELL.
SYSTEM AT P5						-1.0368	0.00			
P6	DW1047DWAJD-2R-S	1175				-0.0454	72.54	2154.32	1	DOUBLE WALL ADJUSTABLE DUCT - 10" INNER DUCT - 2 LAYERS REDUCED CLEARANCE - 14" STAINLESS STEEL OUTER SHELL. MIN LENGTH = 11" / MAX LENGTH = 49.5" / ADJUSTMENT = 38.5" / ADJUSTABLE SECTION MAY NEED TO BE CUT. INCLUDES SINGLE AND DOUBLE WALL "V" CLAMPS.
SYSTEM AT P6						-1.0368	0.00			
P7 ASSEMBLED W/P8	DW1035DWLTTP-2R-S	1175				-0.0338	36.31	2154.32	1	DOUBLE WALL DUCT - 10" INNER DUCT, 35" LONG - 2 LAYERS REDUCED CLEARANCE - 14" STAINLESS STEEL OUTER SHELL - USED WITH TRANSITION PLATE.
SYSTEM AT P7						-1.0706	0.00			
P8 ASSEMBLED W/P7 0+8	DW2310TPDECK	1175					8.00	2154.32	1	DUCT TO CURB TRANSITION 3/4" DOWN TURN, 23" CURB TO 10" DUCT, 16 GA ALUMINIZED. FOR USE WITH EXHAUST FANS.
RC1	DW14DWRISER-2R-S						6.45		1	DOUBLE WALL RISER COVER - USED ON 10" INNER RISER, 4" LONG - 2 LAYERS REDUCED CLEARANCE - 14" STAINLESS STEEL OUTER RISER SHELL ASSEMBLY. INCLUDES INSULATION & SINGLE V CLAMPS FOR INNER & OUTER CONNECTIONS.
RC2	DW14DWRISER-2R-S						6.45		1	DOUBLE WALL RISER COVER - USED ON 10" INNER RISER, 4" LONG - 2 LAYERS REDUCED CLEARANCE - 14" STAINLESS STEEL OUTER RISER SHELL ASSEMBLY. INCLUDES INSULATION & SINGLE V CLAMPS FOR INNER & OUTER CONNECTIONS.
	3M-2000PLUS						0.80		1	DUCT - 3M FIRE BARRIER 2000 PLUS SILICONE - USED AS SEALANT TO SEAL DUCT JOINTS.
TOTAL WEIGHT							355.20			

Furnish double wall, factory built grease duct for use with Type I kitchen hoods, which conforms to the requirements of NFPA-96. Products shall be ETL listed to UL-1978 and UL-2221 for venting air and grease vapors from commercial cooking operation. Models DW-2R, 3R and 3Z are used for grease duct applications when installed in accordance with these instructions and National Fire Protection Association "NFPA 96", Standard for Ventilation Control and Fire Protection of Commercial Cooking Operations. Double wall grease ducts are listed for a continuous internal temperature of 500 degrees F and intermittent temperatures of 2000 degrees F.

The duct sections shall be constructed of an inner duct wall and an outer wall with insulation in between. The inner duct wall shall be constructed of .036 inch thick, 430 type stainless steel and be available in diameters 8" through 24". The outer wall shall be constructed of stainless steel at a minimum of .024 inch thickness. The duct, based on model number, shall include layers of Super Wool 607 Plus insulation between the inner and outer wall. Grease duct joints shall be held together by means of formed V clamps and sealed with 3M Fire Barrier 2000+. The duct wall assembly shall be tested and listed at **W** or zero inch clearance, according to classifications.

Classifications and Clearances

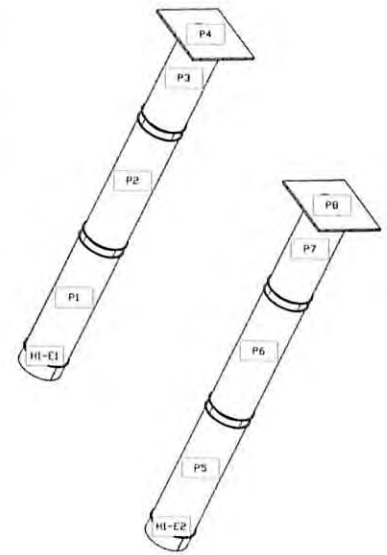
UL 2221: Standard for Fire Resistive Grease Duct Enclosure Assemblies. Chapter 7 of this standard references a test labeled Internal Fire Test. Section 7.11 references two installation conditions, Condition A and Condition B. Condition A represents all installation condition except for installation within non-ventilated combustible enclosures. Condition B represents installation within a non-ventilated combustible enclosure.

Model DW-3Z is classified under UL2221 (Test of Fire Resistive Duct Enclosure Assemblies) as an alternate to 2-Hr. fire resistive shaft enclosures with a minimum zero clearance to combustibles (sizes 8" to 24" diameter). Model 3Z is listed in accordance with the requirements for duct enclosure Condition A and B.

Model DW-3R is classified under UL2221 (Test of Fire Resistive Duct Enclosure Assemblies) as an alternate to 2-Hr. fire resistive shaft enclosures with a reduced clearance to combustibles (sizes 8" to 24" diameter). Model 3R is listed in accordance with the requirements for duct enclosure Condition B.

Model DW-2R is classified under UL2221 (Test of Fire Resistive Duct Enclosure Assemblies) as an alternate to 2-Hr. fire resistive shaft enclosures with a reduced clearance to combustibles (sizes 8" to 16" diameter). Model 2R is listed in accordance with the requirements for duct enclosure Condition B.

DUCTWORK #1 SE VIEW



PRELIMINARY

REVISIONS
DESCRIPTION | DATE

CAPTIVEAIRE
Sales Acquisition Offices
1410 Lake St Suite 214, Santa Monica, CA, 90404 PHONE: (310) 575 - 8005 FAX: (310) 575-8006 EMAIL: info@captiveaire.com
www.captiveaire.com

Vicky's Bubbly Cafe - Gardena, CA Rev1
14782 Crenshaw Boulevard,
Gardena, CA, 90249

DATE: 2/25/2025
DRAWN BY: NFF-81
SCALE: 3/4" = 1'-0"
SHEET NO. 7

ICON & IKON, INC
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STAMP

OWNER / TENATE
CRENSHAW PLAZA
14782 CRENSHAW BLVD
GARDENA, CA 90249
PH: (310) 717-1742

PROJECT TITLE
VICKY'S BUBBLY CAFE
TENANT IMPROVEMENT - KITCHEN RESTAURANT

PROJECT ADDRESS
14782 CRENSHAW,
GARDENA CA, 90250

REVISIONS
NO	DATE	DESCRIPTION
1		
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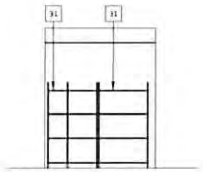
3		
4		
5		

DRAWN BY: T.I.M
CHECKED BY: T.M
PRINTED ON: FEB. 24, 2025
PERMIT NO:

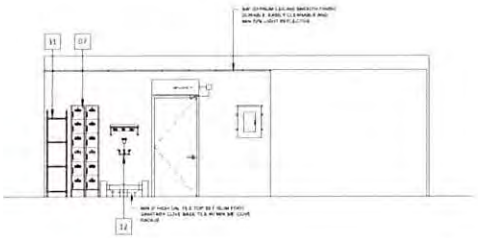
TITLE
CAPTIVE AIR
TYPE 1 HOOD
DRAWING

SHEET #
A-540

NO. 91 OF 100

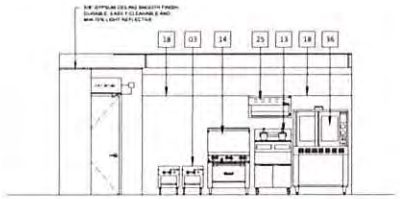


ELEVATION @ DRY STORAGE | SCALE 1/4"=1'-0" | 07

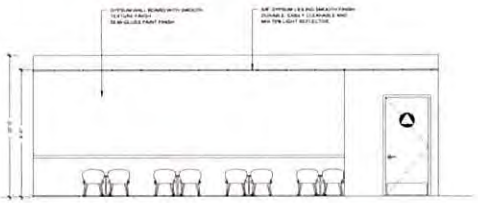


ELEVATION @ DRY STORAGE | SCALE 1/4"=1'-0" | 06

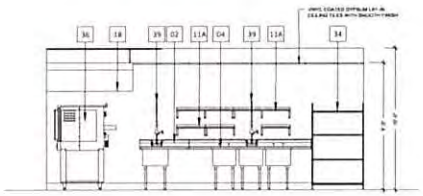
ELEVATION @ KITCHEN | SCALE 1/4"=1'-0" | 05



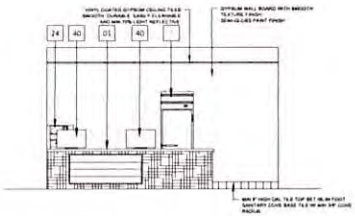
ELEVATION @ COOKLINE | SCALE 1/4"=1'-0" | 04



ELEVATION @ CUSTOMER SEATING | SCALE 1/4"=1'-0" | 03



ELEVATION @ DISH LINE | SCALE 1/4"=1'-0" | 02



ELEVATION @ COUNTER PICK-UP AREA / PASTRY DISPLAY | SCALE 1/4"=1'-0" | 01

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STAMP

OWNER / TENATE

CRENSHAW PLAZA
14782 CRENSHAW BLVD
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PROJECT TITLE

VICKY'S BUBBLY CAFE

TENANT IMPROVEMENT - KITCHEN RESTAURANT

PROJECT ADDRESS

14782 CRENSHAW,
GARDENA CA, 90250

REVISIONS

NO	DATE	DESCRIPTION
1		
2		
3		
4		
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DRAWN BY: I.I. M

CHECKED BY: I.M

PRINTED ON: FEB. 24, 2025

PERMIT NO:

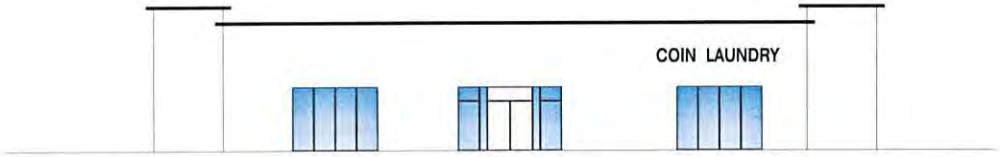
TITLE

INTERIOR ELEVATION

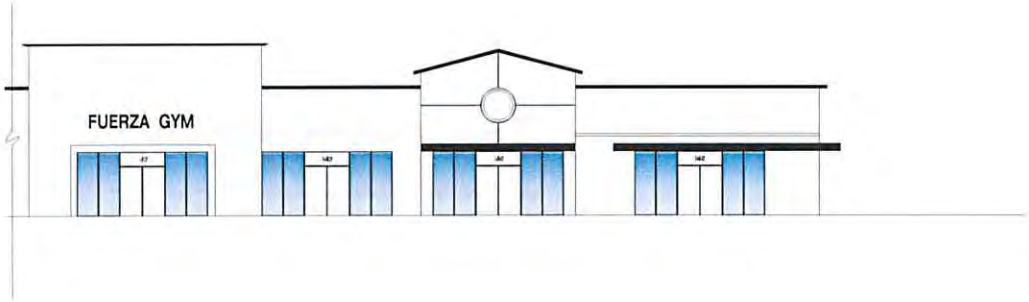
SHEET #

A-601

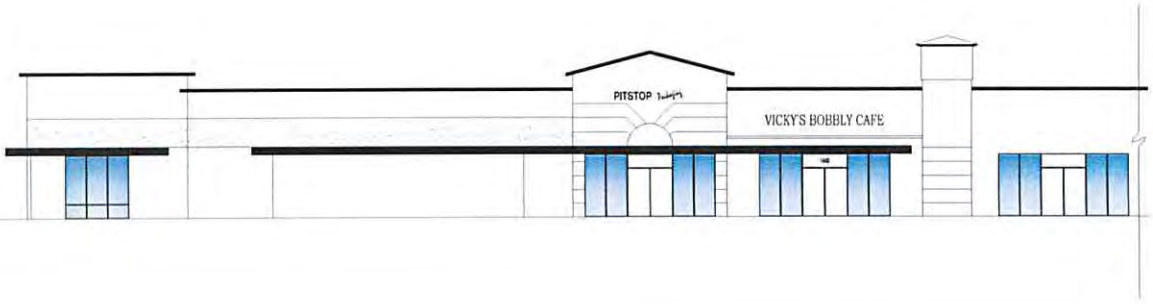
NO. 01 OF 100



EX. SOUTH ELEVATION | SCALE 3/16"=1'-0" | 3



EX. WEST ELEVATION | SCALE 3/16"=1'-0" | 2



EX. WEST ELEVATION | SCALE 3/16"=1'-0" | 1

KEY #

1. EXISTING 4" THICK CONCRETE TILT WALL TO REMAIN. DO NOT PENETRATE. CUT CORE ON WATER AND WALLS OR WITHOUT PRIOR APPROVAL FROM ENGINEER AND CITY BUILDING OFFICIAL. NO CHANGES PROPOSED
2. LOCATION OF RELOCATED STOREFRONT ENTRY DOOR IN EXISTING STOREFRONT SYSTEM PER FLOOR PLAN. SEE WINDOW AND DOOR SCHEDULE FOR ADDITIONAL INFORMATION
3. EXISTING TEMPERED GLASS STOREFRONT SYSTEM TO REMAIN
4. EXISTING SLIDE CORE DOOR TO REMAIN. NO CHANGES
5. EXISTING BUILDING ELECTRICAL METER TO REMAIN. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION. CONTRACTOR TO COORDINATE WITH SOUTHERN CALIFORNIA EDISON FOR ANY SELL UPGRADES.
6. EXISTING GAS METER LOCATION TO REMAIN. REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION. CONTRACTOR TO COORDINATE WITH COORDINATOR WITH SOUTHERN CALIFORNIA GAS COMPANY FOR ANY SELL UPGRADES
7. ENTRY DOOR TO ADJACENT TENANT SPACE TO REMAIN. NOT IN CONTRACT. NO CHANGES
8. LOCATION OF PROPOSED SIGN UNDER SEPARATE PERMIT. SIGN CONTRACTOR TO SUBMIT SEPARATE PLANS FOR REVIEW W/O ADDITIONAL PRIOR TO INSTALLATION OF SIGN.
9. EXISTING SLIP WALL ALUMINUM WALL CAP FLASHING TO REMAIN. NO CHANGES
10. REPRESENTS LINE OF FINISHED BOTTOM OF BLUE WATER FRAMING
11. EXISTING ARCHWAY TO REMAIN. NO CHANGES. NOT IN SCOPE
12. EXISTING SLIDING WALL UP DOOR TO REMAIN. NOT IN CONTRACT. PART OF PADDLE CLEANING SPACE
13. NEW SURFACE MOUNTED STOREFRONT DOOR TO BE PAINTED BLUE IN EXISTING STOREFRONT SYSTEM

ICON & IKON, INC
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STAMP:

LICENSED ARCHITECT
REGISTERED ARCHITECT
NO. 6527
EXP. 4-30-26
STATE OF CALIFORNIA

OWNER / TENATL

CRENSHAW PLAZA
14782 CRENSHAW BLVD
GARDENA, CA 90249
PH: (310) 717-3742

PROJECT TITLE

VICKY'S BUBBLY CAFE
TENANT IMPROVEMENT - KITCHEN RESTAURANT

PROJECT ADDRESS

14782 CRENSHAW,
GARDENA CA, 90250

REVISIONS

NO.	DATE	DESCRIPTION
1		
2		
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DRAWN BY: J.J. M.

CHECKED BY: I.M

PRINTED ON: FEB. 24, 2025

PERMIT NO.

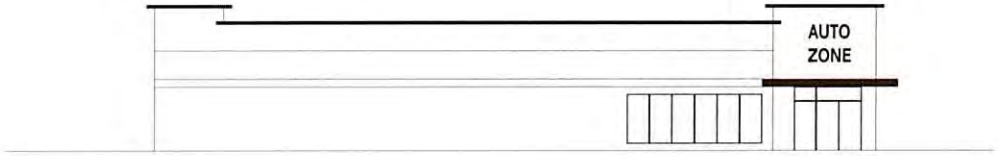
TITLE

BUILDING
EXTERIOR
ELEVATIONS

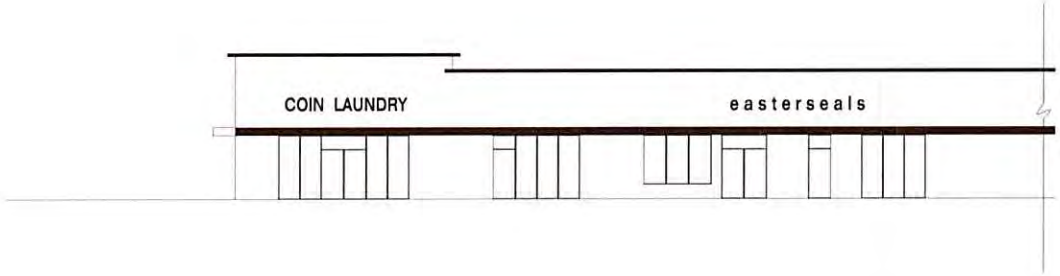
SHEET #

A-701

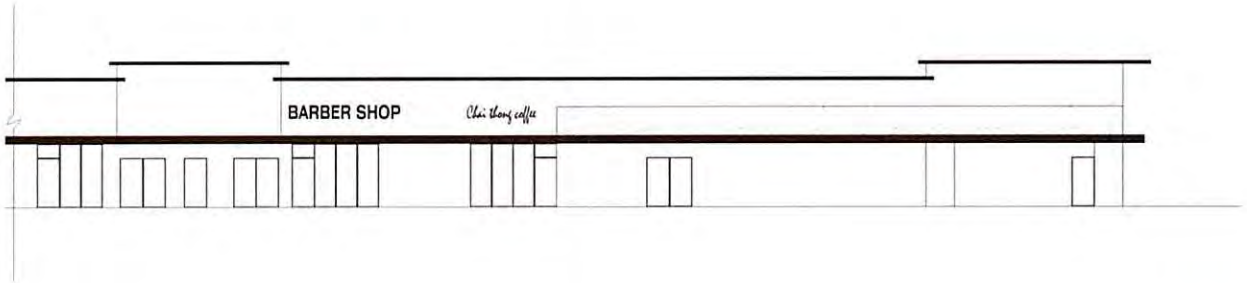
NO. 01 OF 100



EX. NORTH ELEVATION | SCALE 3/16"=1'-0" | 1



EX. EAST ELEVATION | SCALE 3/16"=1'-0" | 2



EX. EAST ELEVATION | SCALE 3/16"=1'-0" | 1

KEY #	
1	EXISTING 4" THICK CONCRETE TILT WALLS TO REMAIN. DO NOT PENETRATE, CUT, CORE OR ALTER ANY WALLS OR WITHOUT PRIOR APPROVAL FROM ENGINEER AND CITY BUILDING OFFICIAL. NO CHANGES PROPOSED
2	LOCATION OF REGULATED STOREFRONT ENTRY DOOR IN EXISTING STOREFRONT SYSTEM PER FLOOR PLAN. SEE WINDOW AND DOOR SCHEDULE FOR ADDITIONAL INFORMATION
3	EXISTING TEMPERED GLASS STOREFRONT SYSTEM TO REMAIN
4	EXISTING SOLID CORE DOOR TO REMAIN. NO CHANGES
5	EXISTING BUILDING ELECTRICAL METER TO REMAIN. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION. 1) INSTALL FOR TO 1) EXISTING WITH SOUTHERN CALIFORNIA EDISON FOR ANY REQ. UPGRADES
6	EXISTING GAS METER LOCATION TO REMAIN. REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION. CONTRACTOR TO COORDINATE WITH COURTESY WITH SOUTHERN CALIFORNIA GAS COMPANY FOR ANY REQ. UPGRADES
7	ENTRY DOOR TO VACANT TENANT SPACE TO REMAIN. NOT IN CONTRACT. NO CHANGES
8	LOCATION OF PROPOSED SEAL UNDER ASPHALT STRIPE. SEAL CONTRACTOR TO SUBMIT SPYRAFT PLANS FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION OF SEAL
9	EXISTING GALVANIZED ALUMINUM WALL CAP FLASHING TO REMAIN. NO CHANGES
10	REFRESHED LINE OF PROPOSED BOTTOM OF FLOOR WATER FRAMING
11	EXISTING ARCHWAY TO REMAIN. NO CHANGES. NOT IN SCOPE
12	EXISTING SECTIONAL ROLL UP DOOR TO REMAIN. NOT IN CONTRACT. FOR OR NONCLEAR COURT SPACE
13	NEW SURFACE BLOCK CONCRETE DOOR STEPS INSTALLED IN EXISTING CONCRETE SPLASH

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LICENSED ARCHITECT
IKON
Feb 4 - 25 - 25
STATE OF CALIFORNIA

OWNER / TENATE

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PROJECT TITLE
VICKY'S BUBBLY CAFE
TENANT IMPROVEMENT - KITCHEN RESTAURANT

PROJECT ADDRESS
14782 CRENSHAW,
GARDENA CA, 90250

REVISIONS

NO.	DATE	DESCRIPTION
1		
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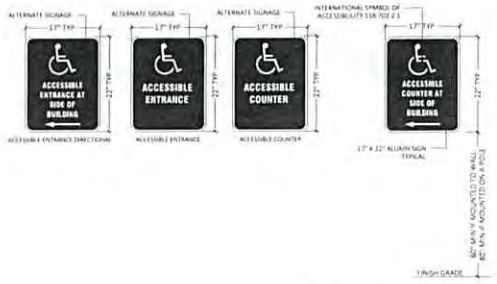
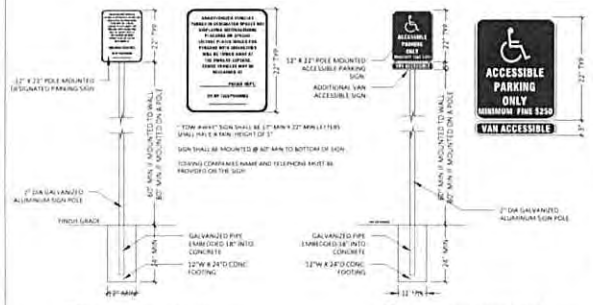
DRAWN BY: I.J. M
CHECKED BY: I.M
PRINTED ON: FEB. 24, 2025
PERMIT NO:

TITLE
BUILDING
EXTERIOR
ELEVATIONS

SHEET #
A-702
NO. 01 OF 100

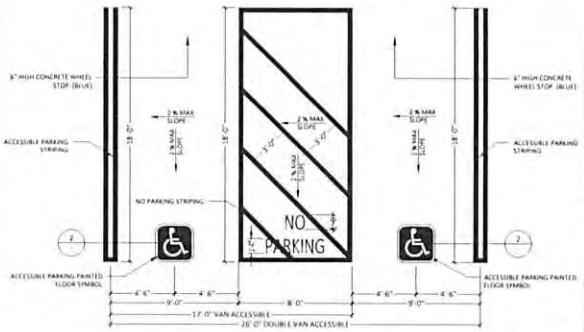


7 ACCESSIBILITY IDENTIFICATION SIGN'S
SCALE: N.T.S.



4 A DESIGNATED PARKING SIGN
SCALE: 1/2" = 1'-0"

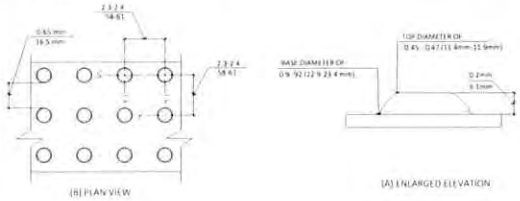
4 POLE MOUNTED ACCESSIBLE SIGN
SCALE: 1/2" = 1'-0"



1 ACCESSIBLE PARKING STALLS
SCALE: 1/4" = 1'-0"

TRUNCATED DOMES IN A DETECTABLE WARNING SURFACE SHALL HAVE A CENTER TO CENTER SPACING OF 2.3 INCHES (58 MM) MINIMUM AND 2.4 INCHES (61 MM) MAXIMUM AND A BASE TO BASE SPACING OF 1.65 INCHES (42 MM) MINIMUM, MEASURED BETWEEN THE MOST ADJACENT DOME LOCATIONS ON A SQUARE GRID.

EXCEPTION: WHERE INSTALLED IN A RADIAL PATTERN, TRUNCATED DOMES SHALL HAVE A CENTER TO CENTER SPACING OF 1.6 INCHES (41 MM) MINIMUM TO 2.4 INCHES (61 MM) MAXIMUM.



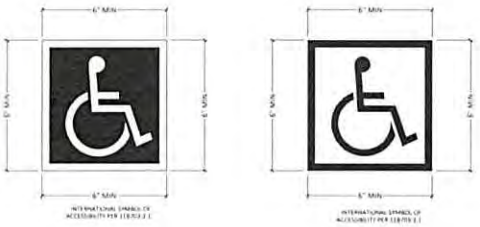
(B) PLAN VIEW

(A) ENLARGED ELEVATION

REQUIRED COLOR
FEDERAL STANDARD 33538 YELLOW
INTERNATIONAL TRAFFIC YELLOW MAR 834

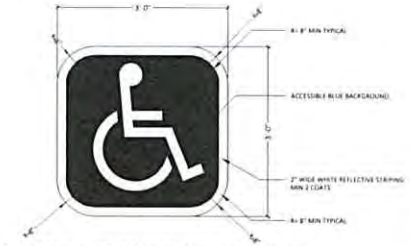
8 DETECTABLE WARNING SURFACE
SCALE: 1/4" = 1'-0"

11B-703.7.2.1 INTERNATIONAL SYMBOL OF ACCESSIBILITY
THE INTERNATIONAL SYMBOL OF ACCESSIBILITY (TSA) SHALL COMPLY WITH FIGURE 11B-703.7.2.1. THE SYMBOL SHALL CONSIST OF A WHITE FIGURE ON A BLUE BACKGROUND. THE COLOR BLUE SHALL APPROXIMATE FS 15090 IN FEDERAL STANDARD 595C. A BORDER MAY BE PROVIDED INSIDE OR OUTSIDE OF THE MINIMUM REQUIRED INTERNATIONAL SYMBOL OF ACCESSIBILITY DIMENSION.
EXCEPTIONS:
THE APPROPRIATE ENFORCEMENT AGENCY MAY APPROVE OTHER COLORS PROVIDED THE SYMBOL CONTRAST IS LIGHT ON DARK OR DARK ON LIGHT.
ON THE ACCESSIBLE FUNCTION BUTTON ON HALL CALL CONSOLES IN A DESTINATION ORIENTED ELEVATOR SYSTEM THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SHALL BE A WHITE SYMBOL ON A BLACK BACKGROUND.



5 INTERNATIONAL SYMBOL OF ACCESSIBILITY
SCALE: N.T.S.

11B-703.7.2.1 INTERNATIONAL SYMBOL OF ACCESSIBILITY
THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SHALL COMPLY WITH FIGURE 11B-703.7.2.1. THE SYMBOL SHALL CONSIST OF A WHITE FIGURE ON A BLUE BACKGROUND. THE COLOR BLUE SHALL APPROXIMATE FS 15090 IN FEDERAL STANDARD 595C. A BORDER MAY BE PROVIDED INSIDE OR OUTSIDE OF THE MINIMUM REQUIRED INTERNATIONAL SYMBOL OF ACCESSIBILITY DIMENSION.
- CHARACTER WIDTH TO HEIGHT RATIO BETWEEN 3/5 AND 1:1
- CHARACTER STROKE WIDTH TO HEIGHT RATIO BETWEEN 1/5 AND 1:10
- CHARACTER AND BACKGROUND SHALL HAVE AND EQUIVALENT MATTE, OR OTHER NON-GLARE FINISH.
- CHARACTERS AND BACKGROUND SHALL CONTRAST, EITHER LIGHT CHARACTERS ON DARK BACKGROUND OR DARK CHARACTERS ON LIGHT BACKGROUND.



SYMBOL TO BE PAINTED AT CENTER OF ACCESSIBLE PARKING STALL

2 ACCESSIBLE PARKING STALL FLOOR SIGN
SCALE: 1"=1'-0"

9

11B-406.2.1 SLOPE
RAMP RUNS SHALL HAVE A RUNNING SLOPE NOT STEEPER THAN 1:12.

11B-406.2.2 SIDES OF CURB RAMPS
WHERE PROVIDED, CURB RAMP FLARES SHALL NOT BE STEEPER THAN 1:10.

11B-406.5.1 CROSS SLOPE
THE CROSS SLOPE OF CURB RAMPS AND BLENDED TRANSITIONS SHALL BE 1:48 MAXIMUM.

11B-406.5.8 COUNTER SLOPE
COUNTER SLOPES OF ADJOINING GUTTERS AND ROAD SURFACES IMMEDIATELY ADJACENT TO AND WITHIN 24 INCHES (610 MM) OF THE CURB RAMP SHALL NOT BE STEEPER THAN 1:20. THE ADJACENT SURFACES AT TRANSITIONS AT CURB RAMPS TO WALKS, GUTTERS, AND STREETS SHALL BE AT THE SAME LEVEL.
11B-406.5.9 LOCATION

CURB RAMPS AND THE FLARED SIDES OF CURB RAMPS SHALL BE LOCATED SO THAT THEY DO NOT PROJECT INTO VEHICULAR TRAFFIC LANES, PARKING SPACES, OR PARKING ACCESS AISLES. CURB RAMPS AT MARKED CROSSINGS SHALL BE WHOLLY CONTAINED WITHIN THE MARKINGS, EXCLUDING ANY FLARED SIDES.

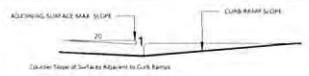
EXCEPTION: DIAGONAL CURB RAMPS SHALL COMPLY WITH SECTION 11B-406.5.9.

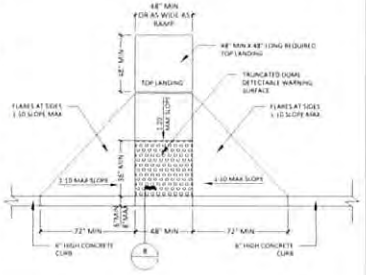
11B-406.5.2 WIDTH
THE CLEAR WIDTH OF CURB RAMP RUNS (EXCLUDING ANY FLARED SIDES), BLENDED TRANSITIONS, AND TURNING SPACES SHALL BE 48 INCHES (1219 MM) MINIMUM.

11B-406.5.3 LANDINGS
LANDINGS SHALL BE PROVIDED AT THE TOPS OF CURB RAMPS AND BLENDED TRANSITIONS. THE LANDING CLEAR LENGTH SHALL BE 48 INCHES (1219 MM) MINIMUM. THE LANDING CLEAR WIDTH SHALL BE AT LEAST AS WIDE AS THE CURB RAMP (EXCLUDING ANY FLARED SIDES) OR THE BLENDED TRANSITION LEADING TO THE LANDING. THE SLOPE OF THE LANDING IN ALL DIRECTIONS SHALL BE 1:48 MAXIMUM.

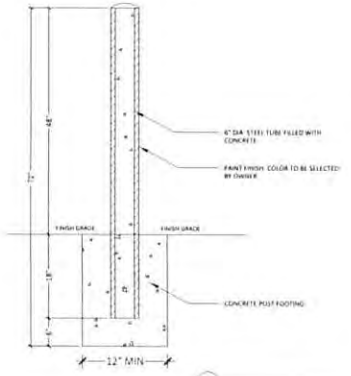
EXCEPTION: PARALLEL CURB RAMPS SHALL NOT BE REQUIRED TO COMPLY WITH SECTION 11B-406.5.3.

11B-406.5.8 COUNTER SLOPE
COUNTER SLOPES OF ADJOINING GUTTERS AND ROAD SURFACES IMMEDIATELY ADJACENT TO AND WITHIN 24 INCHES (610 MM) OF THE CURB RAMP SHALL NOT BE STEEPER THAN 1:20. THE ADJACENT SURFACES AT TRANSITIONS AT CURB RAMPS TO WALKS, GUTTERS, AND STREETS SHALL BE AT THE SAME LEVEL.





6 (E) CURB RAMP W/ FLARED SIDES
SCALE: 1/4" = 1'-0"



3

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PROJECT TITLE
VICKY'S BUBBLY CAFE
TENANT IMPROVEMENT - KITCHEN RESTAURANT

PROJECT ADDRESS
14782 CRENSHAW,
GARDENA CA, 90250

REVISIONS

NO.	DATE	DESCRIPTION
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DRAWN BY: EJ. M
CHECKED BY: I.M
PRINTED ON: FEB. 24, 2025
PERMIT NO:
TITLE
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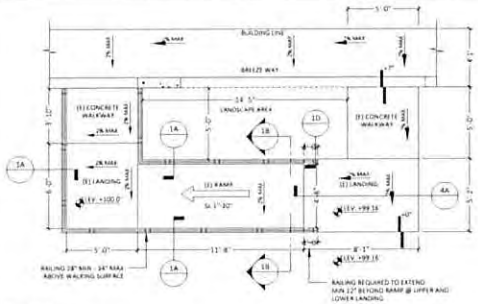
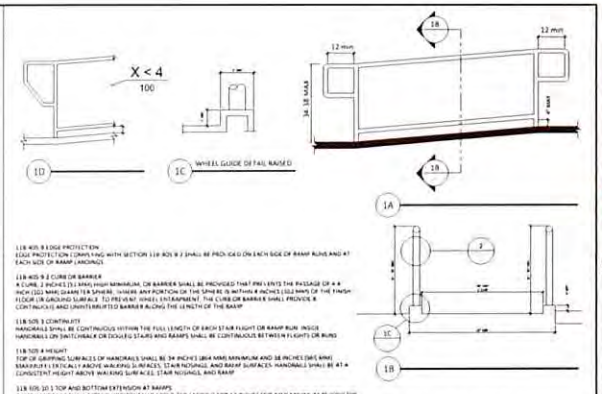
D-100
NO. 01 OF 100



11B 405.5 LANDINGS

LANDINGS SHALL BE PROVIDED AT THE TOPS OF CURB RAMPS AND BLENDED TRANSITIONS. THE LANDING CLEAR LENGTH SHALL BE 48 INCHES (1219 MM) MINIMUM. THE LANDING CLEAR WIDTH SHALL BE AT LEAST AS WIDE AS THE CURB RAMP, EXCLUDING ANY FLARED SIDES, OR THE BLENDED TRANSITION LEADING TO THE LANDING. THE SLOPES OF THE LANDING IN ALL DIRECTIONS SHALL BE 1 98 MAXIMUM.

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



11B 405.9.1 EDGE PROTECTION
EDGE PROTECTION COMPLYING WITH SECTION 11B-405.9.2 SHALL BE PROVIDED ON EACH SIDE OF RAMP RUNS AND AT EACH SIDE OF RAMP LANDINGS.

11B 405.9.2 CURB OR BARRIER
A CURB, 2 INCHES (51 MM) HIGH MINIMUM, OR BARRIER SHALL BE PROVIDED THAT PREVENTS THE PASSAGE OF A 4 INCH (102 MM) DIAMETER SPHERE, WHERE ANY PORTION OF THE SPHERE IS WITHIN 4 INCHES (102 MM) OF THE FINISH FLOOR OR GROUND SURFACE. TO PREVENT WHEEL ENTRAPMENT, THE CURB OR BARRIER SHALL PROVIDE A CONTINUOUS AND UNINTERRUPTED BARRIER ALONG THE LENGTH OF THE RAMP.

11B 505.3 CONTINUITY
HANDRAILS SHALL BE CONTINUOUS WITHIN THE FULL LENGTH OF EACH STAIR FLIGHT OR RAMP RUN. INSIDE HANDRAILS ON SWITCHBACK OR DOUBLE STAIRS AND RAMPS SHALL BE CONTINUOUS BETWEEN FLIGHTS OR RUNS.

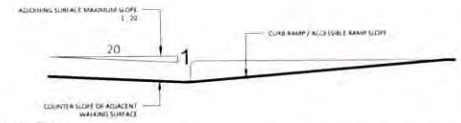
11B 505.4 HEIGHT
TOP OF GRIPPING SURFACES OF HANDRAILS SHALL BE 34 INCHES (864 MM) MINIMUM AND 38 INCHES (965 MM) MAXIMUM VERTICALLY ABOVE WALKING SURFACES, STAIR NOSINGS, AND RAMP SURFACES. HANDRAILS SHALL BE AT A CONSISTENT HEIGHT ABOVE WALKING SURFACES, STAIR NOSINGS, AND RAMP.

11B 505.10.1 TOP AND BOTTOM EXTENSION AT RAMPS
RAMP HANDRAILS SHALL EXTEND HORIZONTALLY ABOVE THE LANDING FOR 12 INCHES (305 MM) MINIMUM BEYOND THE TOP AND BOTTOM OF RAMP RUNS. EXTENSIONS SHALL RETURN TO A WALL, GUARD, OR THE LANDING SURFACE, OR SHALL BE CONTINUOUS TO THE HANDRAIL OF AN ADJACENT RAMP RUN.

1 RAMP EDGE PROTECTION
SCALE: 1/4" = 1'-0"

6

8



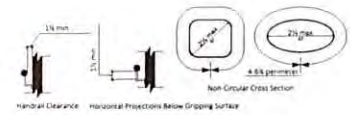
11B 405.3 COUNTER SLOPE

COUNTER SLOPES OF ADJOINING GUTTERS AND ROAD SURFACES IMMEDIATELY ADJACENT TO AND WITHIN 24 INCHES (610 MM) OF THE CURB RAMP SHALL NOT BE STEEPER THAN 1 20. THE ADJACENT SURFACES AT TRANSITIONS AT CURB RAMPS TO WALKS, GUTTERS, AND STREETS SHALL BE AT THE SAME LEVEL.

4A COUNTER SLOPE DETAIL
SCALE: 1/4" = 1'-0"

11B 505.5 CLEARANCE
CLEARANCE BETWEEN HANDRAIL GRIPPING SURFACES AND ADJACENT SURFACES SHALL BE 1 1/2 INCHES (38 MM) MINIMUM.

HANDRAILS MAY BE LOCATED IN A RECESS IF THE RECESS IS 3 INCHES (76 MM) MAXIMUM DEEP AND 18 INCHES (457 MM) MINIMUM CLEAR ABOVE THE TOP OF THE HANDRAIL.



11B 505.6 GRIPPING SURFACE
HANDRAIL GRIPPING SURFACES SHALL BE CONTINUOUS ALONG THEIR LENGTH AND SHALL NOT BE OBSTRUCTED ALONG THEIR TOPS OR SIDES. THE BOTTOMS OF HANDRAIL GRIPPING SURFACES SHALL NOT BE OBSTRUCTED FOR MORE THAN 20 PERCENT OF THEIR LENGTH. WHERE PROVIDED, HORIZONTAL PROJECTIONS SHALL OCCUR 1 1/2 INCHES (38 MM) MINIMUM BELOW THE BOTTOM OF THE HANDRAIL GRIPPING SURFACE.

EXCEPTIONS
WHERE HANDRAILS ARE PROVIDED ALONG WALKING SURFACES WITH SLOPES NOT STEEPER THAN 1 20, THE BOTTOMS OF HANDRAIL GRIPPING SURFACES SHALL BE PERMITTED TO BE OBSTRUCTED ALONG THE ENTIRE LENGTH WHERE THEY ARE INTEGRAL TO CRASH RAILS OR BUMPER GUARDS.

THE DISTANCE BETWEEN HORIZONTAL PROJECTIONS AND THE BOTTOM OF THE GRIPPING SURFACE SHALL BE PERMITTED TO BE REDUCED BY 1/8 INCH (3.2 MM) FOR EACH 1/2 INCH (12.7 MM) OF ADDITIONAL HANDRAIL PERIMETER DIMENSION THAT EXCEEDS 4 INCHES (102 MM).

11B 505.7.1 CIRCULAR CROSS SECTION
HANDRAIL GRIPPING SURFACES WITH A CIRCULAR CROSS SECTION SHALL HAVE AN OUTSIDE DIAMETER OF 1 1/4 INCHES (32 MM) MINIMUM AND 2 INCHES (51 MM) MAXIMUM.

11B 505.7.2 NON-CIRCULAR CROSS SECTIONS
HANDRAIL GRIPPING SURFACES WITH A NON-CIRCULAR CROSS SECTION SHALL HAVE A PERIMETER DIMENSION OF 4 INCHES (102 MM) MINIMUM AND 6 1/4 INCHES (158 MM) MAXIMUM, AND A CROSS SECTION DIMENSION OF 2 1/4 INCHES (57 MM) MAXIMUM.

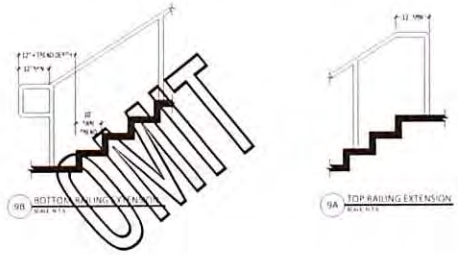
2 HANDRAIL CLEARANCES
SCALE: 1" = 1'-0"

11B 505.10.2 TOP EXTENSION AT STAIRS

AT THE TOP OF A STAIR FLIGHT, HANDRAILS SHALL EXTEND HORIZONTALLY ABOVE THE LANDING FOR 12 INCHES (305 MM) MINIMUM BEGINNING DIRECTLY ABOVE THE FIRST RISER NOSING. EXTENSIONS SHALL RETURN TO A WALL, GUARD, OR THE LANDING SURFACE, OR SHALL BE CONTINUOUS TO THE HANDRAIL OF AN ADJACENT STAIR FLIGHT.

11B 505.10.3 BOTTOM EXTENSION AT STAIRS

AT THE BOTTOM OF A STAIR FLIGHT, HANDRAILS SHALL EXTEND AT THE SLOPE OF THE STAIR FLIGHT FOR A HORIZONTAL DISTANCE EQUAL TO ONE TREAD DEPTH BEYOND THE LAST RISER NOSING. THE HORIZONTAL EXTENSION OF A HANDRAIL SHALL BE 12 INCHES (305 MM) LONG MINIMUM AND A HEIGHT EQUAL TO THAT OF THE SLOPING PORTION OF THE HANDRAIL AS MEASURED ABOVE THE STAIR NOSINGS. EXTENSION SHALL RETURN TO A WALL, GUARD, OR THE LANDING SURFACE, OR SHALL BE CONTINUOUS TO THE HANDRAIL OF AN ADJACENT STAIR FLIGHT.



9B BOTTOM RAILING EXTENSION
SCALE: N.T.S.

9A TOP RAILING EXTENSION
SCALE: N.T.S.

9 RAILING EXTENSION @ STAIRS
SCALE: 1/4" = 1'-0"

11B 505.10.1 TOP AND BOTTOM EXTENSION AT RAMPS
RAMP HANDRAILS SHALL EXTEND HORIZONTALLY ABOVE THE LANDING FOR 12 INCHES (305 MM) MINIMUM BEYOND THE TOP AND BOTTOM OF RAMP RUNS. EXTENSIONS SHALL RETURN TO A WALL, GUARD, OR THE LANDING SURFACE, OR SHALL BE CONTINUOUS TO THE HANDRAIL OF AN ADJACENT RAMP RUN.

11B 505.10.2 TOP EXTENSION AT STAIRS
AT THE TOP OF A STAIR FLIGHT, HANDRAILS SHALL EXTEND HORIZONTALLY ABOVE THE LANDING FOR 12 INCHES (305 MM) MINIMUM BEGINNING DIRECTLY ABOVE THE FIRST RISER NOSING. EXTENSIONS SHALL RETURN TO A WALL, GUARD, OR THE LANDING SURFACE, OR SHALL BE CONTINUOUS TO THE HANDRAIL OF AN ADJACENT STAIR FLIGHT.

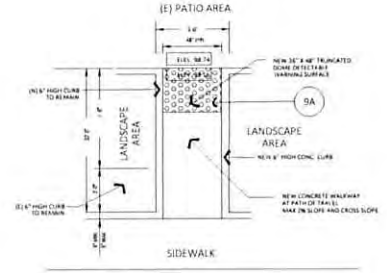
11B 505.10.3 BOTTOM EXTENSION AT STAIRS
AT THE BOTTOM OF A STAIR FLIGHT, HANDRAILS SHALL EXTEND AT THE SLOPE OF THE STAIR FLIGHT FOR A HORIZONTAL DISTANCE EQUAL TO ONE TREAD DEPTH BEYOND THE LAST RISER NOSING. THE HORIZONTAL EXTENSION OF A HANDRAIL SHALL BE 12 INCHES (305 MM) LONG MINIMUM AND A HEIGHT EQUAL TO THAT OF THE SLOPING PORTION OF THE HANDRAIL AS MEASURED ABOVE THE STAIR NOSINGS. EXTENSION SHALL RETURN TO A WALL, GUARD, OR THE LANDING SURFACE, OR SHALL BE CONTINUOUS TO THE HANDRAIL OF AN ADJACENT STAIR FLIGHT.

5A RAMPS
SCALE: N.T.S.

5B WALKING SURFACE
SCALE: N.T.S.

5C STAIRS
SCALE: N.T.S.

5 RAILING MOUNTING HEIGHTS
SCALE: 1/4" = 1'-0"



3 ACCESSIBLE PATH OR TRAVEL RAMP
SCALE: N.T.S.

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PROJECT TITLE
VICKY'S BUBBLY CAFE
TENANT IMPROVEMENT - KITCHEN RESTAURANT

PROJECT ADDRESS
14782 CRENSHAW,
GARDENA CA, 90250

REVISIONS

NO.	DATE	DESCRIPTION
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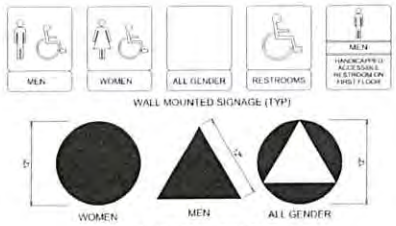
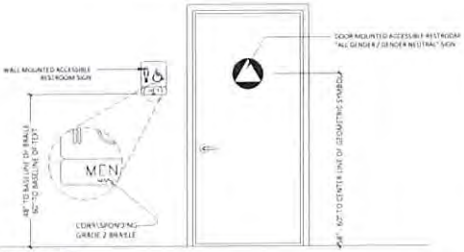
DRAWN BY: J.J. M
CHECKED BY: E.M
PRINTED ON: FEB. 24, 2025
PERMIT NO.

TITLE
SITE DETAIL

SHEET #
D-105

NO. 01 OF 100





118.703.7.1 & 2 UNISEX TOILET AND BATHING FACILITIES

A COMBINED CIRCLE AND TRIANGLE SYMBOL SHALL BE LOCATED AT ENTRANCES TO UNISEX TOILET AND BATHING FACILITIES. THE COMBINED CIRCLE AND TRIANGLE SYMBOL SHALL CONSIST OF A CIRCLE SYMBOL 2 1/8 INCH (6 4 MM) THICK AND 12 INCHES (305 MM) IN DIAMETER WITH A 1 1/4 INCH (6 8 MM) THICK EQUILATERAL TRIANGLE SYMBOL (UPR IMPOSED ON AND GEOMETRICALLY INSCRIBED WITHIN THE 12 INCH (305 MM) DIAMETER OF THE CIRCLE SYMBOL. THE VERTICES OF THE TRIANGLE SYMBOL SHALL BE LOCATED 1/8 INCH (6 4 MM) MAXIMUM FROM THE EDGE OF THE CIRCLE SYMBOL (IN A VERTEX POINT UPWARD. THE COLOR OF THE TRIANGLE SYMBOL SHALL CONTRAST WITH THE COLOR OF THE CIRCLE SYMBOL, EITHER LIGHT ON A DARK BACKGROUND OR DARK ON A LIGHT BACKGROUND. THE COLOR OF THE CIRCLE SYMBOL SHALL CONTRAST WITH THE COLOR OF THE DOOR OR SURFACE ON WHICH THE COMBINED CIRCLE AND TRIANGLE SYMBOL IS MOUNTED, EITHER LIGHT ON A DARK BACKGROUND OR DARK ON A LIGHT BACKGROUND.

118.703.7.1 & 2 EDGES AND VERTICES ON GEOMETRIC SYMBOLS

EDGES SHALL BE EDGED OR ROUNDED AT 1/16 INCH (1 6 MM) MINIMUM OR CHAMFERED AT 1/8 INCH (3 2 MM) MAXIMUM. VERTICES SHALL BE ROUNDED BETWEEN 1/8 INCH (3 2 MM) MINIMUM AND 1/4 INCH (6 4 MM) MAXIMUM.

118.703.7.2 & 3 MEN'S TOILET AND BATHING FACILITIES

A TRIANGLE SYMBOL SHALL BE LOCATED AT ENTRANCES TO MEN'S TOILET AND BATHING FACILITIES. THE TRIANGLE SYMBOL SHALL BE AN EQUILATERAL TRIANGLE 1/4 INCH (6 4 MM) THICK WITH EDGES 12 INCHES (305 MM) LONG AND A VERTEX POINT (N) UPWARD. THE COLOR OF THE TRIANGLE SYMBOL SHALL CONTRAST WITH THE COLOR OF THE DOOR OR SURFACE ON WHICH THE TRIANGLE SYMBOL IS MOUNTED, EITHER LIGHT ON A DARK BACKGROUND OR DARK ON A LIGHT BACKGROUND.

118.703.7.2 & 3 WOMEN'S TOILET AND BATHING FACILITIES

A CIRCLE SYMBOL SHALL BE LOCATED AT ENTRANCES TO WOMEN'S TOILET AND BATHING FACILITIES. THE CIRCLE SYMBOL SHALL BE 1/4 INCH (6 4 MM) THICK AND 12 INCHES (305 MM) IN DIAMETER. THE COLOR OF THE CIRCLE SYMBOL SHALL CONTRAST WITH THE COLOR OF THE DOOR OR SURFACE ON WHICH THE CIRCLE SYMBOL IS MOUNTED, EITHER LIGHT ON A DARK BACKGROUND OR DARK ON A LIGHT BACKGROUND.

WALL MOUNTED SIGNAGE REQUIREMENTS

THE INTERNATIONAL SYMBOL OF ACCESSIBILITY IS INSTALLED ON THE WALL ADJACENT TO THE LATCH SIDE THE DOOR. THE BORDER DIMENSIONS OF THE PICTOGRAM SHALL BE A MIN. OF 6 INCHES IN HEIGHT. WHERE THERE IS NO WALL SPACE ON THE LATCH SIDE, INCLUDING AT DOUBLE DOORS, SIGNS SHALL BE PLACED ON THE NEAREST ADJACENT WALL.

THE CHARACTERS AND BACKGROUND OF THE SIGN (EGGSHELL, MATTE, OR OTHER NON-GLARE FINISH AND THE COLOR AND CONTRAST OF THE SIGN DISTINCTIVELY CONTRASTS WITH THE OTHER COLOR AND CONTRAST OF THE WALL.

THE REQUIRED COLOR OF THE SYMBOL OF ACCESSIBILITY CONSISTS OF A WHITE FIGURE ON A BLUE BACKGROUND.

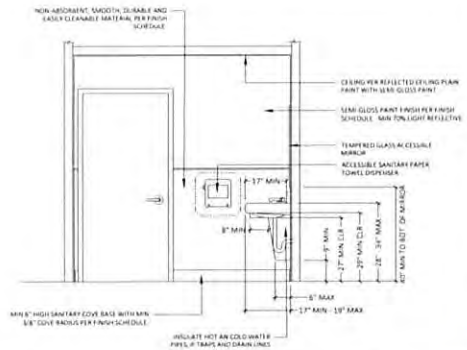
SIGNS ARE CENTERED ON THE WALL 60" ABOVE THE FLOOR.

LETTERS AND NUMBERS ARE BASED 32.5", ARE SANS SERIF UPPERCASE CHARACTERS AND ARE ACCOMPANIED BY GRADE 2 BRAILLE. CHARACTERS ARE MIN. 5/8 INCH HIGH AND A MAXIMUM OF 2 INCH HIGH.

MOUNTING LOCATION ALLOWS A PERSON TO APPROACH WITHIN 3" OF THE SIGNAGE WITHOUT OBSTRUCTING OBSTRUCTING OBJECTS OR STANDING WITH IN THE SWING OF THE DOOR.

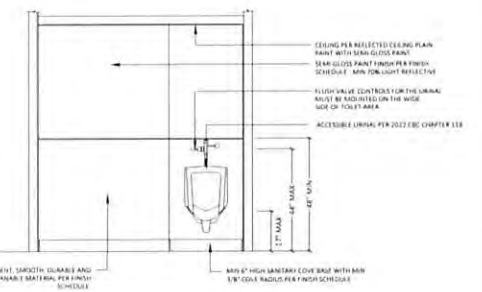
7 ACCESSIBLE RESTOOM SIGNAGE
SCALE: 1" = 1'-0"

8



NOTE:
RESTROOM FLOORS SHALL BE SHALL BE OF SMOOTH, HARD, NON-ABSORBENT SURFACE SUCH AS CERAMIC, CONCRETE, CERAMIC TILE OR OTHER APPROVED MATERIAL AND SHALL EXTEND MIN 6" UP WALL.

4 INTERIOR ELEVATION
SCALE: 1/2" = 1'-0"



NOTE:
RESTROOM FLOORS SHALL BE SHALL BE OF SMOOTH, HARD, NON-ABSORBENT SURFACE SUCH AS CERAMIC, CONCRETE, CERAMIC TILE OR OTHER APPROVED MATERIAL AND SHALL EXTEND MIN 6" UP WALL.

5 INTERIOR ELEVATION
SCALE: 1/2" = 1'-0"

THE STRUCTURAL STRENGTH OF GRAB BARS, TUB AND SHOWER SEATS, FASTENERS AND MOUNTING DEVICES SHALL MEET THE FOLLOWING SPECIFICATIONS:

BENDING STRESS IN A GRAB BAR OR SEAT INDUCED BY THE MAXIMUM BENDING MOMENT FROM THE APPLICATION OF A 250 POUND LOAD SHALL BE LESS THAN THE ALLOWABLE STRESS FOR THE MATERIAL OF THE GRAB BAR OR SEAT.

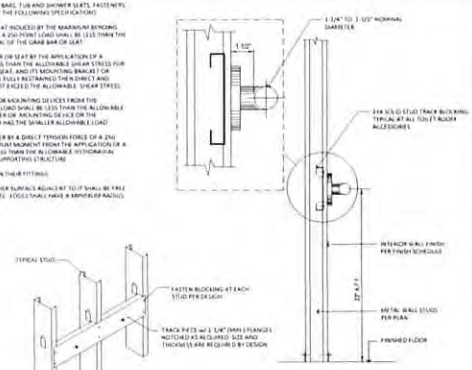
SHEAR STRESS INDUCED IN A GRAB BAR OR SEAT BY THE APPLICATION OF A 250 POUND POINT LOAD SHALL BE LESS THAN THE ALLOWABLE SHEAR STRESS FOR THE MATERIAL OF THE GRAB BAR OR SEAT, AND ITS MOUNTING BRACKET OR OTHER SUPPORT IS LONGER BLU TO BE FULLY RESTRAINED THEN DIRECT AND TORSIONAL SHEAR STRESSES SHALL NOT EXCEED THE ALLOWABLE SHEAR STRESS.

SHEAR FORCE INDUCED IN FASTENER OR MOUNTING DEVICES FROM THE APPLICATION OF A 250 POUND POINT LOAD SHALL BE LESS THAN THE ALLOWABLE LATERAL LOAD OF EITHER THE FASTENER OR MOUNTING DEVICE OR THE SUPPORTING STRUCTURE (WHICHEVER HAS THE SMALLER ALLOWABLE LOAD

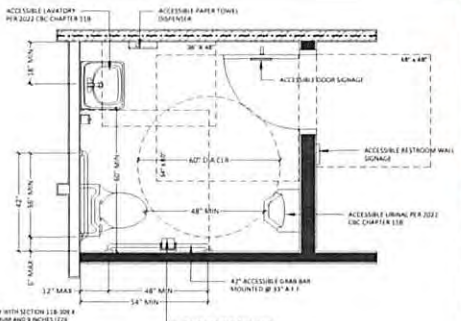
TENSILE FORCE INDUCED IN A FASTENER BY A DIRECT TENSION FORCE OF A 250 POUND POINT LOAD PLUS THE MAXIMUM MOMENT FROM THE APPLICATION OF A 250 POUND POINT LOAD SHALL BE LESS THAN THE ALLOWABLE PULLOUT LOAD BETWEEN THE FASTENER AND SUPPORTING STRUCTURE

GRAB BARS SHALL NOT ROTATE WITHIN THEIR FITTINGS

THE GRAB BAR AND ANY WALL OR OTHER SURFACE ADJACENT TO IT SHALL BE FREE OF ANY SHARP OR ABRASIVE ELEMENTS. EDGES SHALL HAVE A MINIMUM RADIUS OF 1/8"



6 GRAB BAR MOUNTING DETAIL
SCALE: 1" = 1'-0"

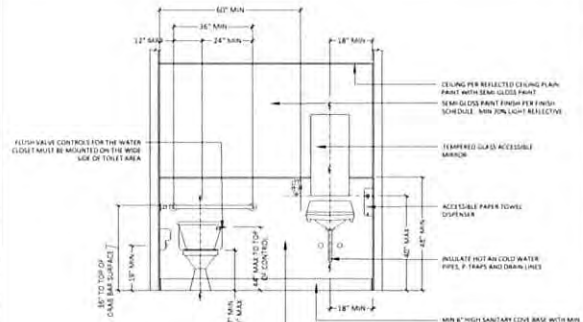


118-604.7.1 DISPENSERS

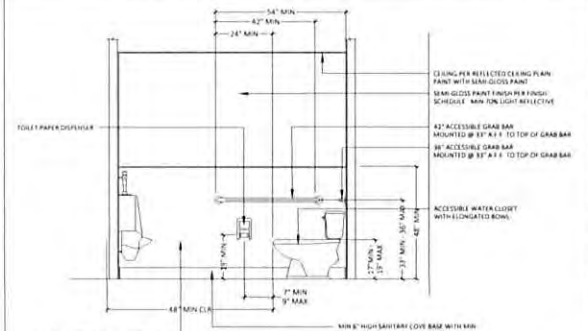
TOILET PAPER DISPENSERS SHALL COMPLY WITH SECTION 11B-308 & AND SHALL BE 7 INCHES (178 MM) MINIMUM AND 9 INCHES (229 MM) MAXIMUM IN FRONT OF THE WATER CLOSET MEASURED TO THE CENTERLINE OF THE DISPENSER. THE OUTLET OF THE DISPENSER SHALL BE BELOW THE GRAB BAR, 19 INCHES (483 MM) MINIMUM ABOVE THE FINISH FLOOR AND SHALL NOT BE LOCATED BEHIND GRAB BARS. DISPENSERS SHALL NOT BE OF A TYPE THAT CONTROLS DELIVERY OR THAT DOES NOT ALLOW CONTINUOUS PAPER FLOW.

NOTE:
RESTROOM FLOORS SHALL BE SHALL BE OF SMOOTH, HARD, NON-ABSORBANT SURFACE SUCH AS CERAMIC, CONCRETE, CERAMIC TILE OR OTHER APPROVED MATERIAL AND SHALL EXTEND MIN 6" UP WALL.

1 ENLARGED RESTROOM FLOOR PLAN
SCALE: 1/2" = 1'-0"



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



118-604.7.1 DISPENSERS

TOILET PAPER DISPENSERS SHALL COMPLY WITH SECTION 11B-308 & AND SHALL BE 7 INCHES (178 MM) MINIMUM AND 9 INCHES (229 MM) MAXIMUM IN FRONT OF THE WATER CLOSET MEASURED TO THE CENTERLINE OF THE DISPENSER. THE OUTLET OF THE DISPENSER SHALL BE BELOW THE GRAB BAR, 19 INCHES (483 MM) MINIMUM ABOVE THE FINISH FLOOR AND SHALL NOT BE LOCATED BEHIND GRAB BARS. DISPENSERS SHALL NOT BE OF A TYPE THAT CONTROLS DELIVERY OR THAT DOES NOT ALLOW CONTINUOUS PAPER FLOW.

3 INTERIOR ELEVATION
SCALE: 1/2" = 1'-0"

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PROJECT TITLE
VICKY'S BUBBLY CAFE
TENANT IMPROVEMENT - KITCHEN RESTAURANT

PROJECT ADDRESS
14782 CRENSHAW,
GARDENA CA, 90250

REVISIONS

NO	DATE	DESCRIPTION
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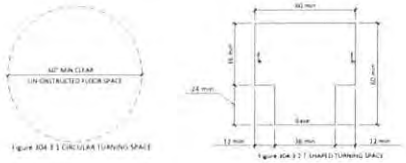


Figure 304.3.1 CIRCULAR TURNING SPACE

Figure 304.3.2 T SHAPED TURNING SPACE

118-304.2 FLOOR OR GROUND SURFACES
FLOOR OR GROUND SURFACE OF A TURNING SPACE SHALL COMPLY WITH SECTION 118-302. CHANGES IN LEVEL ARE NOT PERMITTED.

EXCEPTION: SLOPES NOT STEEPER THAN 1:48 SHALL BE PERMITTED.

118-304.3.1 CIRCULAR SPACE
THE TURNING SPACE SHALL BE A SPACE OF 60 INCHES (1524 MM) DIAMETER MINIMUM. THE SPACE SHALL BE PERMITTED TO INCLUDE KNEE AND TOE CLEARANCE COMPLYING WITH SECTION 118-306.

118-304.3.2 T-SHAPED SPACE
THE TURNING SPACE SHALL BE A T-SHAPED SPACE WITHIN A 60 INCH (1524 MM) SQUARE MINIMUM WITH ARMS AND BASE 36 INCHES (914 MM) WIDE MINIMUM. EACH ARM OF THE T SHALL BE CLEAR OF OBSTRUCTIONS 12 INCHES (305 MM) MINIMUM IN EACH DIRECTION AND THE BASE SHALL BE CLEAR OF OBSTRUCTIONS 24 INCHES (610 MM) MINIMUM. THE SPACE SHALL BE PERMITTED TO INCLUDE KNEE AND TOE CLEARANCE COMPLYING WITH SECTION 118-306 ONLY AT THE END OF EITHER THE BASE OR ONE ARM.

6 ACCESSIBLE TURNING SPACE
SCALE: N.T.S.

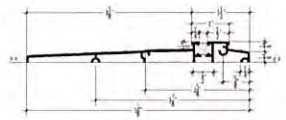


FIGURE 303.3 - BEVELED CHANGE IN LEVEL

FIGURE 303.2 - VERTICAL CHANGE IN LEVEL

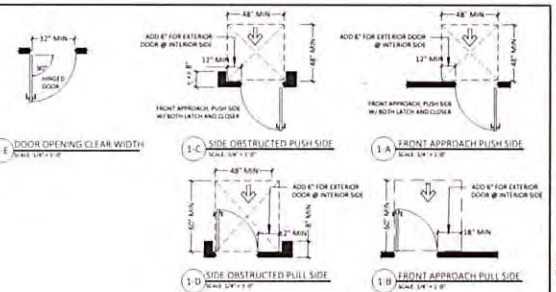
FIGURE 302.2 - CARPET PILE HEIGHT

118-302.2 CARPET PILE HEIGHT
CARPET OR CARPET TILE SHALL BE SECURELY ATTACHED AND SHALL HAVE A FIRM CUSHION, PAD, OR BACKING OR NO CUSHION OR PAD. CARPET OR CARPET TILE SHALL HAVE A LEVEL LOOP, TEXTURED LOOP, LEVEL CUT PILE, LEVEL CUT/UNCUT PILE TEXTURE. PILE HEIGHT SHALL BE 1/2 INCH (12.7 MM) MAXIMUM. EXPOSED EDGES OF CARPET SHALL BE FASTENED TO FLOOR SURFACES AND SHALL HAVE TRIM ON THE ENTIRE LENGTH OF THE EXPOSED EDGE. CARPET EDGE TRIM SHALL COMPLY WITH SECTION 118-303.

118-303.2 VERTICAL CHANGE IN LEVEL
CHANGES IN LEVEL OF 1/4 INCH (6.4 MM) HIGH MAXIMUM SHALL BE PERMITTED TO BE VERTICAL AND WITHOUT EDGE TREATMENT.

118-303.3 BEVELED CHANGE IN LEVEL
CHANGES IN LEVEL BETWEEN 1/4 INCH (6.4 MM) HIGH MINIMUM AND 1/2 INCH (12.7 MM) HIGH MAXIMUM SHALL BE BEVELED WITH A SLOPE NOT STEEPER THAN 1:2.

4 FLOOR TRANSITION / THRESHOLD
SCALE: N.T.S.



1-E DOOR OPENING CLEAR WIDTH
SCALE: 1/4" = 1'-0"

1-C SIDE OBSTRUCTED PUSH SIDE
SCALE: 1/4" = 1'-0"

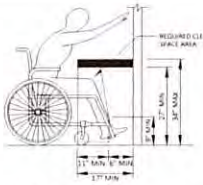
1-A FRONT APPROACH PUSH SIDE
SCALE: 1/4" = 1'-0"

1-D SIDE OBSTRUCTED PULL SIDE
SCALE: 1/4" = 1'-0"

1-B FRONT APPROACH PULL SIDE
SCALE: 1/4" = 1'-0"

118-404.2.4 MANEUVERING CLEARANCES
MINIMUM MANEUVERING CLEARANCES AT DOORS AND GATES SHALL COMPLY WITH SECTION 118-404.2.4. MANEUVERING CLEARANCES SHALL EXTEND THE FULL WIDTH OF THE DOORWAY AND THE REQUIRED LATCH SIDE OR HINGE SIDE CLEARANCE.

1 MANUEVERING CLEARANCES @ DOORS
SCALE: 1/4" = 1'-0"



118-306.2.1 GENERAL
SPACE UNDER AN ELEMENT BETWEEN THE FINISH FLOOR OR GROUND AND 9 INCHES (229 MM) ABOVE THE FINISH FLOOR OR GROUND SHALL BE CONSIDERED TOE CLEARANCE AND SHALL COMPLY WITH SECTION 118-306.2.

118-306.2.2 MAXIMUM DEPTH
TOE CLEARANCE SHALL EXTEND 25 INCHES (635 MM) MAXIMUM UNDER AN ELEMENT.

EXCEPTION: TOE CLEARANCE SHALL EXTEND 19 INCHES (483 MM) MAXIMUM UNDER LAVATORIES REQUIRED TO BE ACCESSIBLE BY SECTION 118-213.3.4.

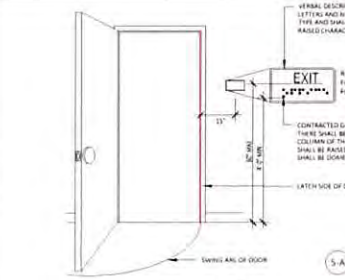
118-306.2.3 MINIMUM REQUIRED DEPTH
WHERE TOE CLEARANCE IS REQUIRED AT AN ELEMENT AS PART OF A CLEAR FLOOR SPACE, THE TOE CLEARANCE SHALL EXTEND 17 INCHES (432 MM) MINIMUM UNDER THE ELEMENT.

EXCEPTIONS:
THE TOE CLEARANCE SHALL EXTEND 19 INCHES (483 MM) MINIMUM UNDER SINKS REQUIRED TO BE ACCESSIBLE BY SECTION 118-212.3.
THE TOE CLEARANCE SHALL EXTEND 19 INCHES (483 MM) MINIMUM UNDER BUILT-IN DINING AND WORK SURFACES REQUIRED TO BE ACCESSIBLE.

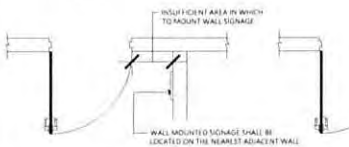
118-306.2.4 ADDITIONAL CLEARANCE
SPACE EXTENDING GREATER THAN 6 INCHES (152 MM) BEYOND THE AVAILABLE KNEE CLEARANCE AT 9 INCHES (229 MM) ABOVE THE FINISH FLOOR OR GROUND SHALL NOT BE CONSIDERED TOE CLEARANCE.

118-306.2.5 WIDTH
TOE CLEARANCE SHALL BE 30 INCHES (762 MM) WIDE MINIMUM.

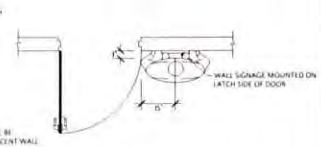
8 ACCESSIBLE KNEE TOE SPACE
SCALE: 1/4" = 1'-0"



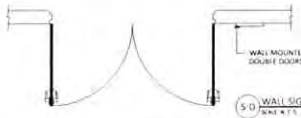
5-A SIGN LOCATION ELEVATION
SCALE: N.T.S.



5-C WALL SIGNAGE ON ADJACENT WALL
SCALE: N.T.S.



5-B WALL SIGNAGE ON ADJACENT TO DOOR
SCALE: N.T.S.



5-D WALL SIGNAGE ON ADJACENT TO DOUBLE DOOR
SCALE: N.T.S.

118-703.4.2 LOCATION
WHERE A TACTILE SIGN IS PROVIDED AT A DOOR, THE SIGN SHALL BE LOCATED ALONGSIDE THE DOOR AT THE LATCH SIDE. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH ONE ACTIVE LEAF, THE SIGN SHALL BE LOCATED ON THE INACTIVE LEAF. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH TWO ACTIVE LEAFS, THE SIGN SHALL BE LOCATED TO THE RIGHT OF THE RIGHT HAND DOOR. WHERE THERE IS NO WALL SPACE AT THE LATCH SIDE OF A SINGLE DOOR OR AT THE RIGHT SIDE OF DOUBLE DOORS, SIGNS SHALL BE LOCATED ON THE NEAREST ADJACENT WALL. SIGNS CONTAINING TACTILE CHARACTERS SHALL BE LOCATED SO THAT A CLEAR FLOOR SPACE OF 18 INCHES (457 MM) MINIMUM BY 18 INCHES (457 MM) MINIMUM, CENTERED ON THE TACTILE CHARACTERS, IS PROVIDED BEYOND THE ARC OF ANY DOOR SWING BETWEEN THE CLOSED POSITION AND 45 DEGREE OPEN POSITION. WHERE PROVIDED, SIGNS IDENTIFYING PERMANENT ROOMS AND SPACES SHALL BE LOCATED AT THE ENTRANCE TO, AND OUTSIDE OF THE ROOM OR SPACE. WHERE PROVIDED, SIGNS IDENTIFYING EXITS SHALL BE LOCATED AT THE EXIT DOOR WHEN APPROACHED IN THE DIRECTION OF EGRESS TRAVEL.

WALL MOUNTED ACCESSIBILITY SIGNAGE SHALL CONSIST OF RAISED CHARACTERS IN ACCORDANCE WITH 2016 CBC 118-703.3.2

WHERE PERMANENT IDENTIFICATION SIGNS ARE PROVIDED FOR ROOMS AND SPACES, SIGNS SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR.

SIGNS WITH RAISED CHARACTERS AND BRAILLE SHALL BE LOCATED 48 INCHES MIN ABOVE FINISHED FLOOR OR GROUND SURFACE, MEASURED FROM THE LOWEST LINE OF BRAILLE AND 60 INCHES MAXIMUM ABOVE FINISHED FLOOR MEASURED FROM THE HIGHEST LINE OF RAISED CHARACTERS.

WHERE THERE IS NO WALL SPACE ON THE LATCHED SIDE OF THE DOOR INCLUDING DOUBLE LEAF DOORS, SIGNS SHALL BE PLACED ON THE NEAREST ADJACENT WALL PERPENDICULAR TO THE RIGHT.

MOUNTING LOCATION SHALL BE DETERMINED SO THAT A PERSON MAY APPROACH WITHIN 3" OF THE SIGNAGE WITHOUT ENCROACHING PROTRUDING OBJECTS OR STANDING WITHIN THE SWING OF A DOOR. 15° AS MEASURED BETWEEN THE LATCH SIDE OF THE DOOR AND THE (VERTICAL) CENTERLINE OF THE

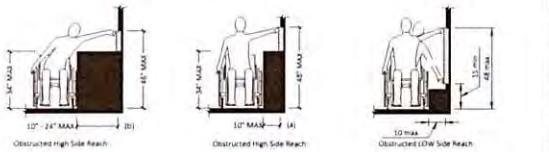
5 TACTILE EXIT SIGN SIGN
SCALE: N.T.S.

118-308.3.1 UNOBSTRUCTED
WHERE A CLEAR FLOOR OR GROUND SPACE ALLOWS A PARALLEL APPROACH TO AN ELEMENT AND THE SIDE REACH IS UNOBSTRUCTED, THE HIGH SIDE REACH SHALL BE 48 INCHES (1219 MM) MAXIMUM AND THE LOW SIDE REACH SHALL BE 15 INCHES (381 MM) MINIMUM ABOVE THE FINISH FLOOR OR GROUND.

EXCEPTIONS:
AN OBSTRUCTION SHALL BE PERMITTED BETWEEN THE CLEAR FLOOR OR GROUND SPACE AND THE ELEMENT WHERE THE DEPTH OF THE OBSTRUCTION IS 10 INCHES (254 MM) MAXIMUM.

118-308.3.2 OBSTRUCTED HIGH REACH
WHERE A CLEAR FLOOR OR GROUND SPACE ALLOWS A PARALLEL APPROACH TO AN ELEMENT AND THE HIGH SIDE REACH IS OVER AN OBSTRUCTION, THE HEIGHT OF THE OBSTRUCTION SHALL BE 34 INCHES (864 MM) MAXIMUM AND THE DEPTH OF THE OBSTRUCTION SHALL BE 24 INCHES (610 MM) MAXIMUM. THE HIGH SIDE REACH SHALL BE 48 INCHES (1219 MM) MAXIMUM FOR A REACH DEPTH OF 10 INCHES (254 MM) MAXIMUM. WHERE THE REACH DEPTH EXCEEDS 10 INCHES (254 MM), THE HIGH SIDE REACH SHALL BE 46 INCHES (1168 MM) MAXIMUM FOR A REACH DEPTH OF 24 INCHES (610 MM) MAXIMUM.

EXCEPTIONS:
THE TOP OF WASHING MACHINES AND CLOTHES DRYERS SHALL BE PERMITTED TO BE 36 INCHES (914 MM) MAXIMUM ABOVE THE FINISH FLOOR.
OPERABLE PARTS OF FUEL DISPENSERS SHALL BE PERMITTED TO BE 54 INCHES (1372 MM) MAXIMUM MEASURED FROM THE SURFACE OF THE VEHICULAR WAY WHERE FUEL DISPENSERS ARE INSTALLED ON EXISTING CURBS.



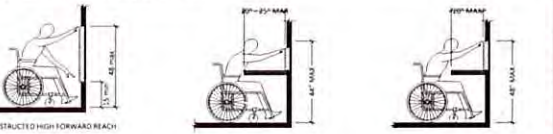
2 REACH RANGES HIGH SIDE
SCALE: 1/4" = 1'-0"

118-308.2.2 OBSTRUCTED HIGH REACH
WHERE A HIGH FORWARD REACH IS OVER AN OBSTRUCTION, THE CLEAR FLOOR SPACE SHALL EXTEND BENEATH THE ELEMENT FOR A DISTANCE NOT LESS THAN THE REQUIRED REACH DEPTH OVER THE OBSTRUCTION. THE HIGH FORWARD REACH SHALL BE 48 INCHES (1219 MM) MAXIMUM WHERE THE REACH DEPTH IS 20 INCHES (508 MM) MAXIMUM. WHERE THE REACH DEPTH EXCEEDS 20 INCHES (508 MM), THE HIGH FORWARD REACH SHALL BE 44 INCHES (1118 MM) MAXIMUM AND THE REACH DEPTH SHALL BE 25 INCHES (635 MM) MAXIMUM.

118-309.2 CLEAR FLOOR SPACE
A CLEAR FLOOR OR GROUND SPACE, COMPLYING WITH SECTION 118-305 SHALL BE PROVIDED.

118-309.3 HEIGHT
OPERABLE PARTS SHALL BE PLACED WITHIN ONE OR MORE OF THE REACH RANGES SPECIFIED IN SECTION 118-308.

118-309.4 OPERATION
OPERABLE PARTS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 POUNDS (22.2 N) MAXIMUM.



3-C UNOBSTRUCTED HIGH REACH
SCALE: N.T.S.

3-B OBSTRUCTED HIGH REACH
SCALE: N.T.S.

3-A OBSTRUCTED HIGH REACH
SCALE: N.T.S.

118-308.2.1 UNOBSTRUCTED
WHERE A FORWARD REACH IS UNOBSTRUCTED, THE HIGH FORWARD REACH SHALL BE 48 INCHES (1219 MM) MAXIMUM AND THE LOW FORWARD REACH SHALL BE 15 INCHES (381 MM) MINIMUM ABOVE THE FINISH FLOOR OR GROUND.

3 REACH RANGES FORWARD APROACH
SCALE: 1/4" = 1'-0"

118-404.2.3 CLEAR WIDTH
DOOR OPENINGS SHALL PROVIDE A CLEAR WIDTH OF 32 INCHES (813 MM) MINIMUM. CLEAR OPENINGS OF DOORWAYS WITH SWINGING DOORS SHALL BE MEASURED BETWEEN THE FACE OF THE DOOR AND THE STOP, WITH THE DOOR OPEN 90 DEGREES. OPENINGS MORE THAN 24 INCHES (610 MM) DEEP SHALL PROVIDE A CLEAR OPENING OF 36 INCHES (914 MM) MINIMUM. THERE SHALL BE NO PROJECTIONS INTO THE REQUIRED CLEAR OPENING WIDTH LOWER THAN 34 INCHES (864 MM) ABOVE THE FINISH FLOOR OR GROUND. PROJECTIONS INTO THE CLEAR OPENING WIDTH BETWEEN 34 INCHES (864 MM) AND 80 INCHES (2032 MM) ABOVE THE FINISH FLOOR OR GROUND SHALL NOT EXCEED 4 INCHES (102 MM).

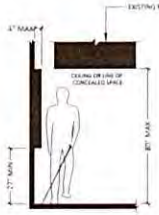
118-404.2.7 DOOR AND GATE HARDWARE
HANDLES, PULLS, LATCHES, LOCKS, AND OTHER OPERABLE PARTS ON DOORS AND GATES SHALL COMPLY WITH SECTION 118-309.4. OPERABLE PARTS OF SUCH HARDWARE SHALL BE 34 INCHES (864 MM) MINIMUM AND 48 INCHES (1118 MM) MAXIMUM ABOVE THE FINISH FLOOR OR GROUND. WHERE SLIDING DOORS ARE IN THE FULLY OPEN POSITION, OPERATING HARDWARE SHALL BE EXPOSED AND USABLE FROM BOTH SIDES.

118-404.2.8.1 DOOR CLOSERS AND GATE CLOSERS
DOOR CLOSERS AND GATE CLOSERS SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR TO A POSITION OF 12 DEGREES FROM THE LATCH IS 5 SECONDS MINIMUM.

118-404.2.8.2 SPRING HINGES
DOOR AND GATE SPRING HINGES SHALL BE ADJUSTED SO THAT FROM THE OPEN POSITION OF 70 DEGREES, THE DOOR OR GATE SHALL MOVE TO THE CLOSED POSITION IN 1.5 SECONDS MINIMUM.

118-404.2.9 DOOR AND GATE OPENING FORCE
THE FORCE FOR PUSHING OR PULLING OPEN A DOOR OR GATE SHALL BE AS FOLLOWS:
INTERIOR HINGED DOORS AND GATES: 5 POUNDS (22.2 N) MAXIMUM. SLIDING OR FOLDING DOORS: 5 POUNDS (22.2 N) MAX.
REQUIRED FIRE DOORS: THE MINIMUM OPENING FORCE ALLOWABLE BY THE APPROPRIATE ADMINISTRATIVE AUTHORITY.
NOT TO EXCEED 15 POUNDS (66.7 N). EXTERIOR HINGED DOORS: 5 POUNDS (22.2 N) MAXIMUM.

THESE FORCES DO NOT APPLY TO THE FORCE REQUIRED TO RETRACT LATCH BOLTS OR DISENGAGE OTHER DEVICES THAT HOLD THE DOOR OR GATE IN A CLOSED POSITION.



LIMITS OF PROTRUDING OBJECTS

118-307.3 PROTRUSION LIMITS
OBJECTS WITH LEADING EDGES MORE THAN 27 INCHES (686 MM) AND NOT MORE THAN 80 INCHES (2032 MM) ABOVE THE FINISH FLOOR OR GROUND SHALL PROTRUDE 4 INCHES (102 MM) MAXIMUM HORIZONTALLY INTO THE CIRCULATION PATH.

EXCEPTION: HANDRAILS SHALL BE PERMITTED TO PROTRUDE 4 1/2 INCHES (114 MM) MAXIMUM.

9 PROTRUSION LIMITS
SCALE: N.T.S.

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PROJECT TITLE
VICKY'S BUBBLY CAFE
TENANT IMPROVEMENT - KITCHEN RESTAURANT

PROJECT ADDRESS
14782 CRENSHAW,
GARDENA CA, 90250

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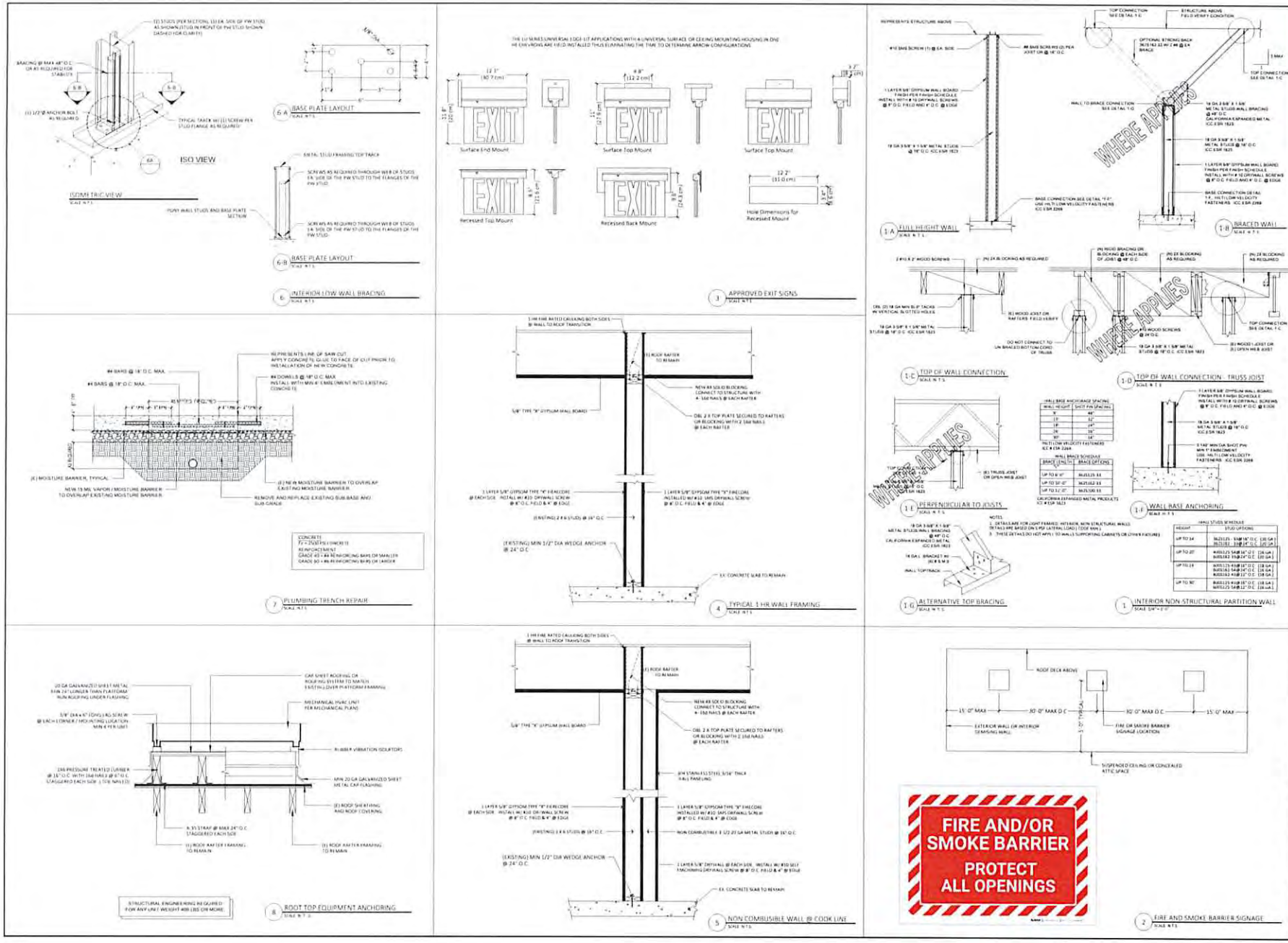

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PROJECT TITLE

VICKY'S BUBBLY CAFE

TENANT IMPROVEMENT - KITCHEN RESTAURANT

PROJECT ADDRESS

14782 CRENSHAW, GARDENA, CA, 90250

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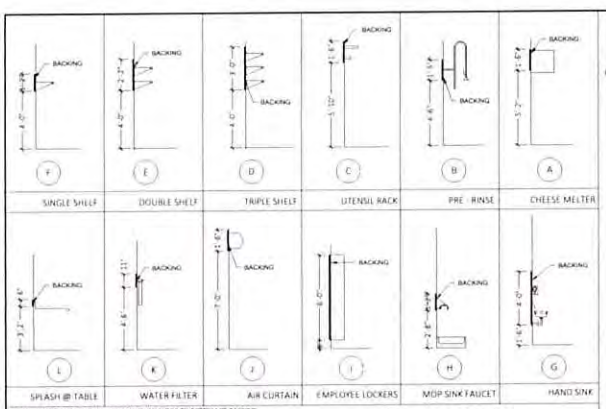
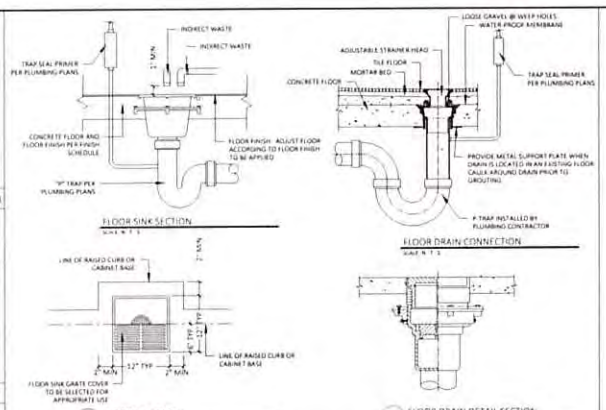
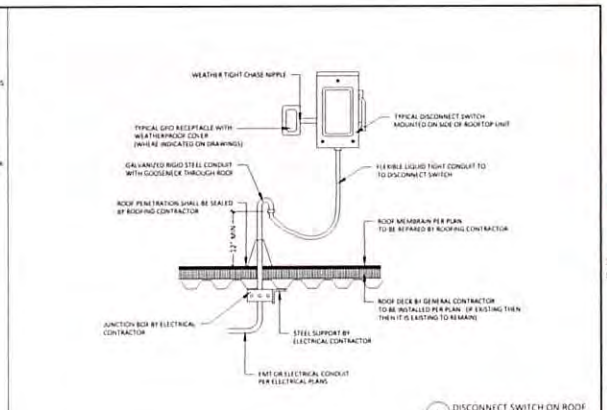


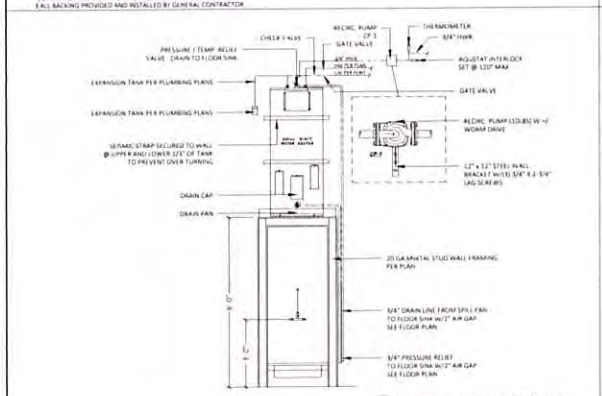
NOTE: 1. ALL DIMENSIONS ARE FROM FINISHED FLOOR TO BOTTOM OF BACKING
2. ALL WALL BACKING TO BE 16 GA. STEEL OR EQUAL, BY LENGTH INDICATED ON PLAN, SECURELY ATTACHED TO STUDS
3. STUDS TO BE 18 GA. IF METAL, UNLESS OTHERWISE INDICATED
4. ALL BACKING PROVIDED AND INSTALLED BY GENERAL CONTRACTOR

7 WALL BACKING DETAILS
SCALE: 1/2" = 1'-0"





1 DISCONNECT SWITCH ON ROOF
SCALE: N.T.S.



8 HOT WATER HEATER ABOVE MOP SINK
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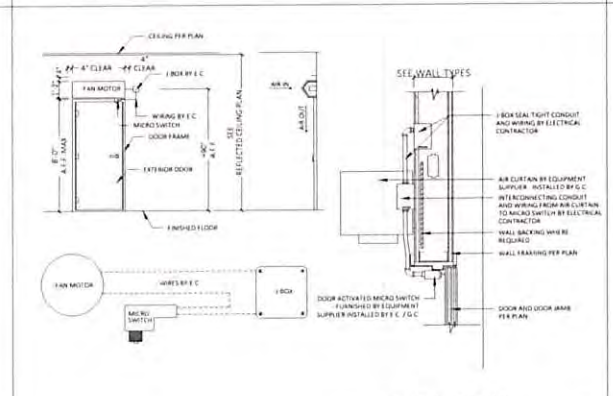

5 TYPICAL AIR CURTAIN
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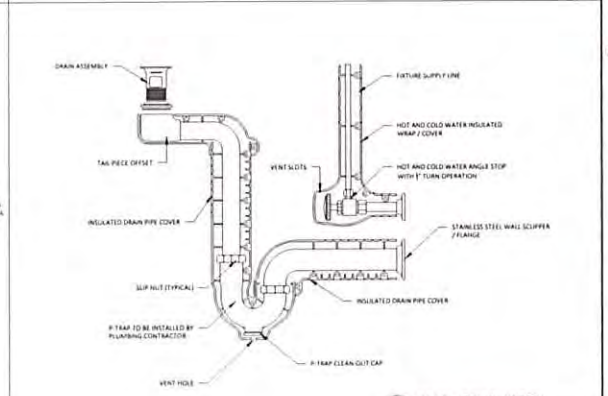

2 PIPE INSULATION @ LAVATORY
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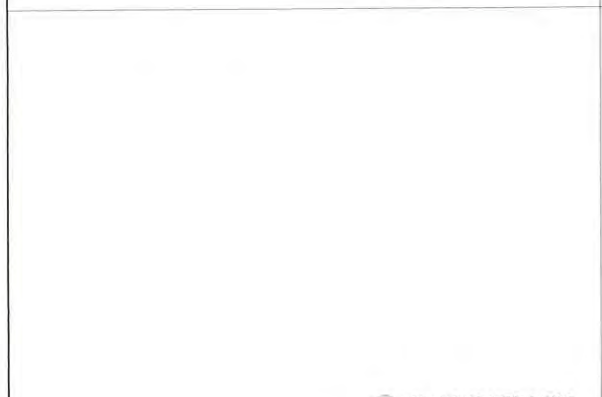

9 BATCH FREEZER CONNECTION DIAGRAM
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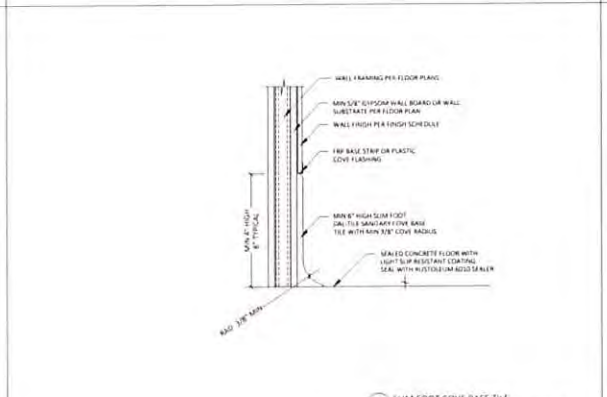

6 SLIM FOOT COVE BASE TILE
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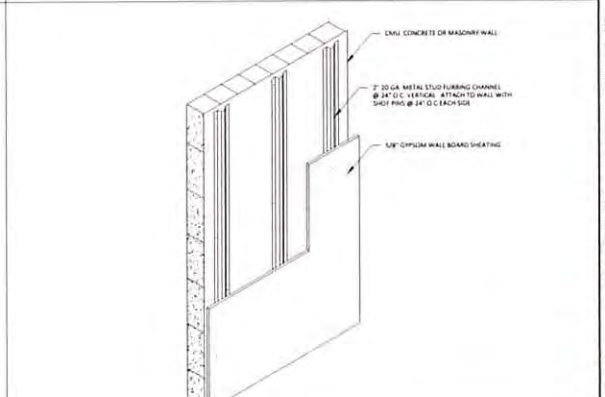

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PROJECT TITLE
VICKY'S BUBBLY CAFE
TENANT IMPROVEMENT - KITCHEN RESTAURANT

PROJECT ADDRESS
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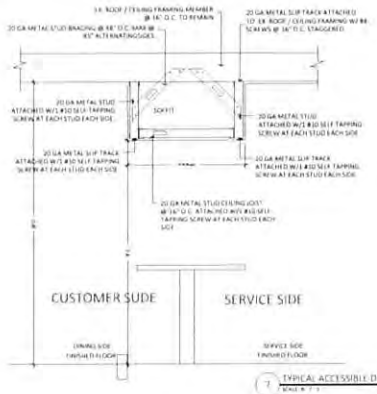
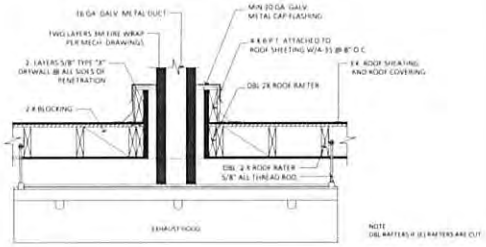
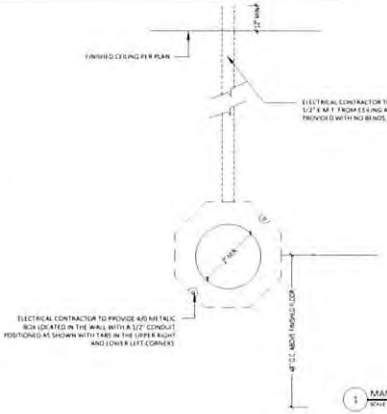


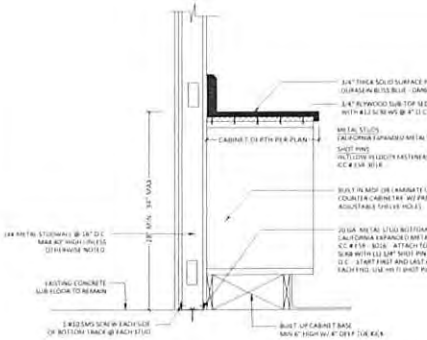
7 TYPICAL ACCESSIBLE DINING SURFACE



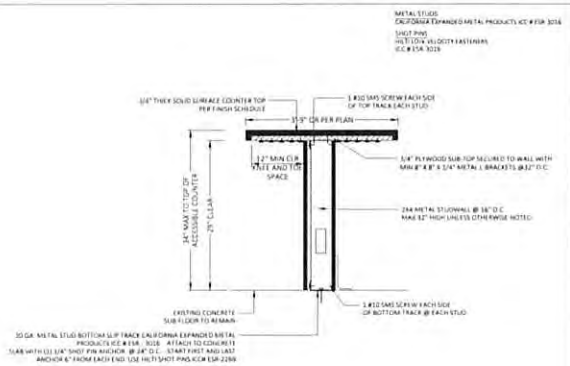
4 1 HR ASSEMBLY @ HOOD SYSTEM



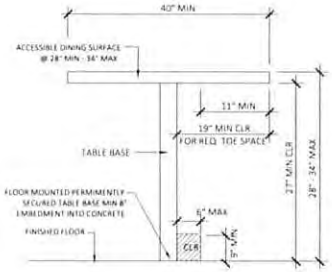
1 MANUAL PULL STATION



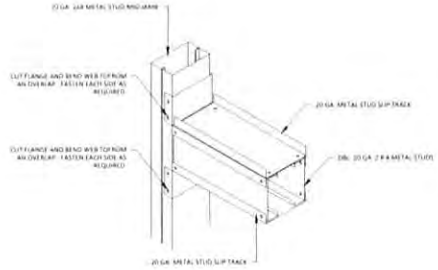
8 TYPICAL COUNTER / CABINET DETAIL



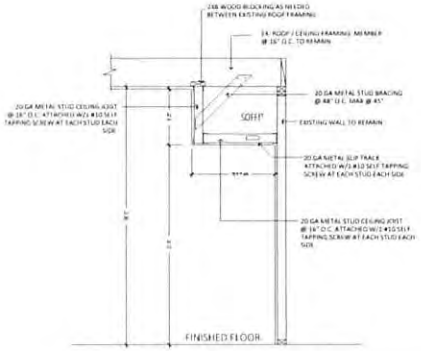
5 ACCESSIBLE COUNTER



2 ACCESSIBLE DINING SURFACE



9 BOXED METAL DOOR HEADER



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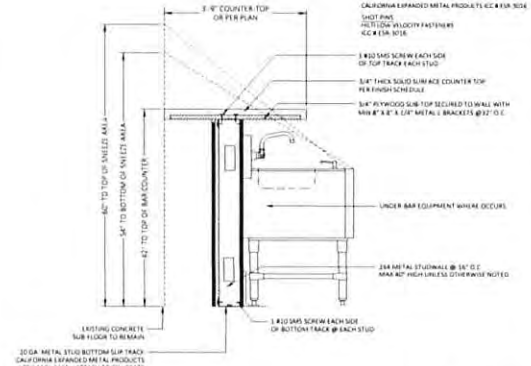

3 TYPICAL BAR COUNTER

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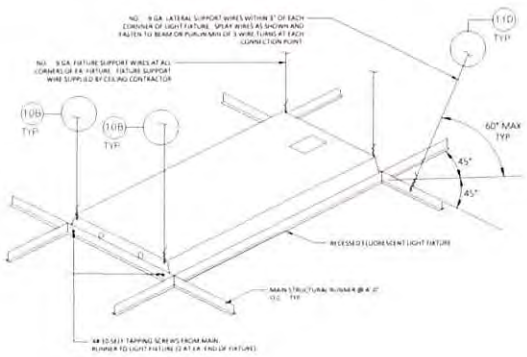


TYPICAL SUSPENDED CEILING LIGHT FIXTURE ATTACHMENT | 7

SUSPENDED CEILING NOTES:

A VERTICAL STRUT: A STRUT FASTENED TOT HE MAIN RUNNER SHALL BE EXTENDED TO AND FASTENED TO THE STRUCTURAL MEMBERS SUPPORTING THE ROOF OR FLOOR ABOVE. THE STRUT SHALL BE ADEQUATE TO RESIST THE VERTICAL SEISMIC COMPONET INDUCED BY THE BRACING WIRE.

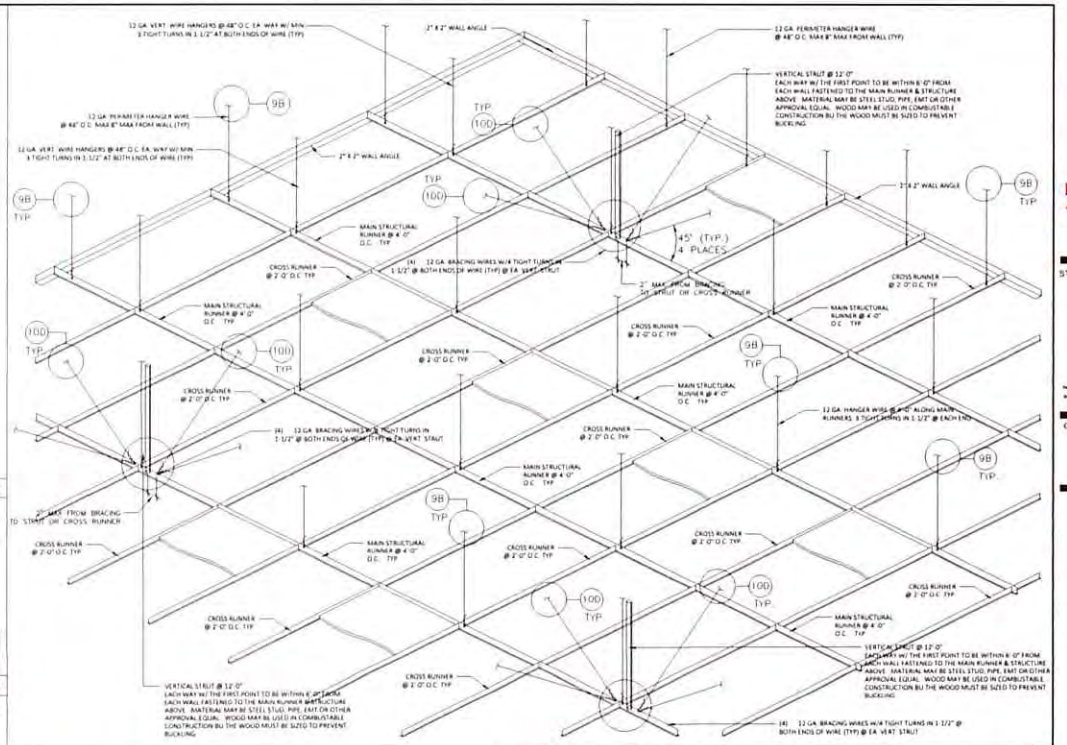
B THESE HORIZONTAL RESTRAINT POINTS SHALL BE PLACED AT 12'-0" O.C. IN BOTH DIRECTIONS WITH THE FIRST POINT WITHIN 6'-0" OF THE WALL.

C PERIMETER HANGERS SHALL BE PLACED IN BOTH DIRECTION WITHIN BINCHES OF THE WALL.

D WHEN THE SISTANCE BETWEEN THE STRUCTURAL DECK AND THE CEILING EXCEEDS 4 FEET, THE SPACING OF THE VERTICAL HANGERS SHALL NOT EXCEED 2'-0" O.C. ALONG THE ENTIRE LENGTH OF THE MEANS OF EGRESS SERVICING AN OCCUPANT LOAD OF 30 OR MORE, AND AT LOBBIES ACCESSORY TO GROUP A OCCUPANCIES.

SUSPENDED CEILING SPECIAL INSPECTION IS REQUIRED FOR THE SEISMIC DESIGN LOCATION PER IBC ESR-1222

TYPICAL SUSPENDED CEILING NOTES | 8



TYPICAL ISOMETRIC T-BAR GRID DIAGRAM | 1

SUSPENDED CEILING NOTES

1 A HEAVY DUTY T-BAR GRID SYSTEM SHALL BE USED.

2 CEILING GRIDS AND FIXTURES SHALL BE INSTALLED PER MANUFACTURES INSTRUCTIONS. WHERE INSTALLATION INSTRUCTIONS CONFLICT WITH THE BUILDING CODE THE THE BUILDING CODE SHALL SUPERSEED.

3 ALL SPRINKLER HEADS (DROPS) EXCEPT FIRE-RESISTANCE-RATED FLOOR / CEILING OR ROOF / CEILING ASSEMBLIES, SHALL BE DESIGNED TO ALLOW FOR FREE MOVEMENT OF THE SPRINKLER PIPES WITH OVERSIZE RINGS, SLEEVES OR ADAPTERS THROUGH THE CEILING TILE. SPRINKLER HEADS AND OTHER PENETRATIONS SHALL HAVE A 2 INCH (50MM) OVERSIZING RING, SLEEVE OR ADAPTER THROUGH THE CEILING TILE TO ALLOW FOR FREE MOVEMENT OF AT LEAST 30 INCH (25MM) IN A HORIZONTAL DIRECTION. ALTERNATIVELY, A SWING JOINT THAT CAN ACCOMMODATE 1 INCH (25MM) OF CEILING MOVEMENT IN ALL HORIZONTAL DIRECTIONS IS PERMITTED TO BE PROVIDED AT THE TOP OF THE SPRINKLER HEAD EXTENSION.

4 SUSPENDED CEILING ASSEMBLIES LOCATED ALONG MEANS OF EGRESS SERVING AN OCCUPANT LOAD OF 30 OR MORE AND SHALL COMPLY WITH THE FOLLOWING PROVISIONS:

A GENERAL: CEILING SUSPENSION SYSTEM SHALL BE CONNECTED AND BRACED WITH VERTICAL HANGERS ATTACHED DIRECTLY TO THE STRUCTURAL DECK ALONG THE MEANS OF EGRESS SERVING AN OCCUPANT LOAD OF 30 OR MORE AND LOBBIES ACCESSORY TO GROUP A OCCUPANCIES. SPACING OF VERTICAL HANGERS SHALL NOT EXCEED 2'-0" O.C. ALONG THE ENTIRE LENGTH OF THE SUSPENDED CEILING ASSEMBLY LOCATED ALONG THE MEANS OF EGRESS OR AT THE LOBBY.

B ASSEMBLY DEVICE: ALL LAY IN PANELS SHALL BE SECURED TO THE SUSPENSION CEILING ASSEMBLY WITH TWO HOLD DOWN CLIPS MIN FOR EACH TILE WITHIN A 4-FOOT (1219 MM) RADIUS OF THE EXIT LIGHTS AND EXIT SIGNS.

C EMERGENCY SYSTEMS: INDEPENDENT SUPPORTS AND BRACES SHALL BE PROVIDED FOR ALL APPENDAGES SUCH AS LIGHT FIXTURES, AIR DIFFUSERS, EXIT SIGNS, AND SIMILAR ELEMENTS.

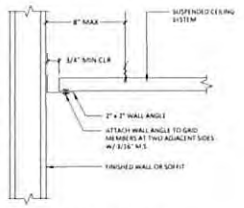
D SUPPORTS FOR APPENDAGES: SEPARATE SUPPORT FROM THE STRUCTURAL DECK SHALL BE PROVIDED FOR ALL APPENDAGES SUCH AS LIGHT FIXTURES, AIR DIFFUSERS, EXIT SIGNS, AND SIMILAR ELEMENTS.

ADDITIONAL T-BAR CEILING NOTES | 6

DISTANCE BETWEEN CEILING AND STRUCTURE ABOVE

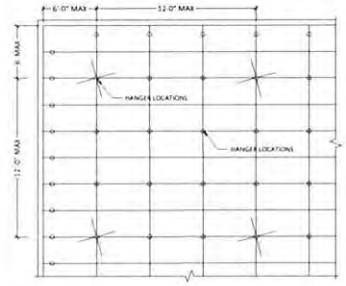
HEIGHT	EMT OPTION	METAL STUD OPTION
UP TO 5'-0"	3/4" EMT	25GT125-33 (20 GA.)
UP TO 6'-0"	1" EMT	25GT125-33 (20 GA.)

COMPRESSION STRUT SCHEDULE | 4

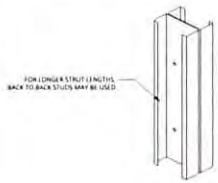


PERIMETER OPTION 1

EDGE CONNECTION DETAIL | 2

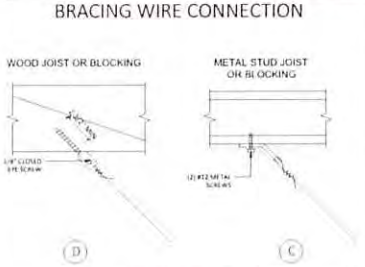


SUSPENDED CEILING SUPPORT TYP. LAYOUT | 5

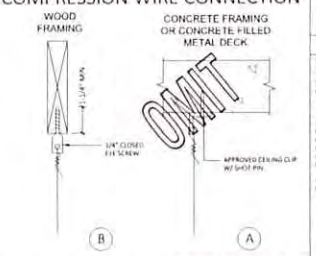


COMPRESSION STRUT DETAIL | 3

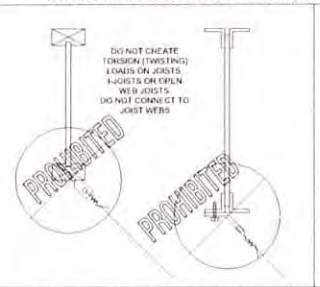
BRACING WIRE CONNECTIONS TO STRUCTURE | 10



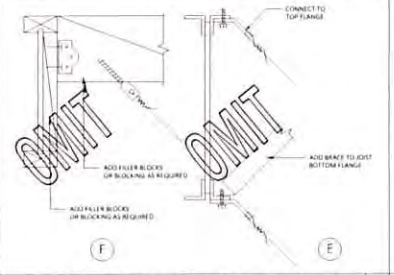
VERTICAL HANGER WIRE CONNECTIONS TO STRUCT | 9



PROHIBITED CONNECTIONS TO STRUCT | 12



VERTICAL HANGER WIRE CONNECTIONS TO STRUCT | 11



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PROJECT ADDRESS: 14782 CRENSHAW, GARDENA CA, 90250

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PERMIT NO

TITLE: REFLECTED CEILING DETAILS

SHEET #: D-700

NO. 01 OF 100

DUCTWORK SPECIFICATIONS

1. INSTALLATION OF DUCTWORK SHALL BE COORDINATED WITH OTHER TRADES. DUCTS INSTALLED IN LOCATIONS WHERE THEY MAY CONFLICT WITH PHYSICAL DAMAGE SHALL BE PROTECTED BY SUITABLE GUARDS.
2. ALL AIR CONDITIONING DUCTS SHALL COMPLY WITH CHAPTER 6 OF THE CALIFORNIA MECHANICAL CODE. ALL TEMPERATURE LIMITS TO BE SUBSTANTially METCHT WITH TYPE, MODEL, OPERATING OR OTHER PRIMARY ALL LOW PRESSURE DUCTWORK SHALL BE RATED FOR 1" OR LESS THAN 0.5" W.G.(100 PT. ALL DUCTS FOR VENTILATION MATERIAL, GAUGE, VENTILATION SYSTEM TO COMPLY WITH CHAPTER 5 OF THE CALIFORNIA MECHANICAL CODE.
3. DUCT SUPPORTS AND ANCHORAGE SHALL COMPLY WITH 2013 CMC.
4. MANUAL VOLUME DAMPERS TO BE INSTALLED IN ALL BRANCH TAKE-OFFS. ALL DAMPERS TO HAVE LOCKING QUADRANT.
5. DUCT SIZES SHOWN ARE NET SIZES REQUIRED. LINED DUCTS SHALL BE PROVIDED IN SIZE TO ACCOMMODATE LINING, WITHOUT LOSS OF AREA.
6. PROVIDE PROPER DUCT SEAL AND SEALANT TO SEAL TRANSVERSE JOINTS ON AIR SUPPLY DUCTS INSTALLED IN LOCATIONS WHERE AIR LEAKAGE THROUGH THE JOINTS WOULD BE NON PRACTICAL. TO BE REQUIRED WITH TEMPERATURE REQUIREMENTS AND SEAL LONGITUDINAL JOINTS ON LOW PRESSURE SUPPLY DUCTS WHICH INTERNAL STATIC PRESSURE EXCEED 0.75" OF WATER PRESSURE.

AIR DEVICES

1. INSTALL AT CEILING, DIFFUSERS PROVIDE THE AIR THROW PATTERN.
2. COORDINATE WITH ARCHITECTURAL DRAWINGS AND PROJECTED CEILING PLANS FOR EXACT LOCATION OF ALL DIFFUSERS AND REGISTERS AND CEILINGS.
3. AIR DISTRIBUTION DIFFUSERS SHALL BE TITUS OR EQUIVALENT.
4. AN AIR BALANCE REPORT IS REQUIRED BY THE MECHANICAL INSPECTOR FOR FINAL INSPECTION APPROVAL.

INSULATION

1. MINERAL FIBER INSULATION SHALL BE INSTALLED IN JOINT SPACES WHEREVER A PLENUM, PIPE OR DUCT PENETRATES A FLOOR CEILING, ASSEMBLY OR WHERE SUCH PIPE OR DUCT PASSES THROUGH THE FLOOR OR FLOOR CEILING, ASSEMBLY FLOW WITHIN A WALL. THE INSULATION SHALL BE INSTALLED TO A POINT 12" BEYOND THE PIPE OR DUCT.
2. COMBUSTION AIR, KITCHEN AND BATHROOM EXHAUST DUCTS WHICH SERVE DESTINATION ASSEMBLIES SHALL BE WRAPPED WITH TYPE "C" INSULATION AS SHOWN IN TABLE NO. 6-B CALIFORNIA MECHANICAL CODE.
3. CEILING, CONCEALED SUPPLY AND RETURN DUCTS TO BE CONTINUED ALL SIDES WITH 2" THICK 3/4 - LB./CU FT. OR WITH 1" THICK 1.5 LB./CU FT DENSITY CONCEALED. INSULATION OF 1" THICK 3 LB./CU FT. MINERAL FIBER BOARD OR EQUIVALENT WITH A CONSTANTANCE OF 0.30 OR LESS, APPLIED WITH 2" STAPLED JOINTS SECURELY AND HEAVILY APPLIED AND FASTENED TO DUCT. THE INSULATION TO BE CERTIFIED BY CALIFORNIA ENERGY COMMISSION. LABEL INSTALLED IN ACCEPTABLE WITH DUCTWORK.

PERIMETER INSULATED WALLS OR ROOF. THE DUCT MUST BE SEALED WITH AN APPROVED FELT SEAL PROVIDER.

4. INSULATION INSTALLER SHALL POST IN A CONSPICUOUS LOCATION IN THE BUILDING, A CERTIFICATE SIGNED BY THE INSTALLER AND BUILDER STATING THAT THE INSULATION CONFORMS WITH THE REQUIREMENTS OF TITLE 24 CHAPTER 2-53 AND THAT THE INSULATION INSTALLED CONFORMS WITH THE REQUIREMENTS OF TITLE 20 CHAPTER 2, SUB-CHAPTER 4 ARTICLE 3.
5. ALL INSULATION MATERIALS SHALL BE LABELED BY THE MANUFACTURER AS COMPLYING WITH THE CALIFORNIA QUALITY STANDARDS FOR INSULATION MATERIAL.
7. NOT USED

PIPING

1. PROVIDE A 1 1/2" MINIMUM CONDENSATE DRAIN FROM EACH AC UNIT TO AN APPROVED PHYSICAL NEAR. CONDENSATE WATER SHALL NOT DRAIN ONTO A PLANTER OR THE DOOR SHALL HAVE A SLOPE OF NOT LESS THAN 1/4 INCH PER FOOT AND SHALL BE THE APPROVED CONDENSATE RESIDUAL PIPE. PIPE WILL BE UNDER PLUMBING SECTION ARTICLE TO PLUMBING DRAWINGS.
2. FOR COOLING, EQUIPMENT LOCATED IN AN ATTIC OR PARKED SPACE, AN ADDITIONAL WATER TIGHT PAN OF CONDENSATE EQUIPMENT METAL SHALL BE INSTALLED BENEATH THE COOLING COIL TO CATCH THE EVAPORATION CONDENSATE DUE TO CLOGGED PRIMARY CONDENSATE DRAIN. THE ADDITIONAL PAN SHALL BE PROVIDED WITH A DRAIN PIPE, 3/4 INCH NOMINAL PIPE SIZE, DISCHARGING AT A POINT WHICH CAN BE READILY OBSERVED (THIS WORK IS UNDER PLUMBING SECTION ARTICLE TO PLUMBING DRAWINGS).

CODE

1. PROVIDE WALL MOUNTED THERMOSTATS AT 4' - 0" ABOVE FINISHED FLOOR.
2. EACH SPACE SYSTEM WITH ONE OR MORE AIR CONDITIONING UNITS, HEATING, HEATING, OR COOLING, IN EXCESS OF 2000 CFM OR AIR SERVING, MORE THAN ONE DEPARTMENT SHALL HAVE SMOKE DETECTORS INSTALLED IN CONDITIONING AND SHALL BE INSTALLED IN THE MAIN RETURN AIR DUCT AHEAD OF ANY OUTSIDE AIR INLET AND ALSO IN THE SUPPLY DUCT DOWNSTREAM OF THE FILTERS. ACTIVATION OF THE SMOKE SHALL CAUSE THE UNIT TO SHUT DOWN AND ACTUATE THE FIRE ALARM SYSTEM (CM. 5200). IF THERE ARE A NUMBER OF AIR CONDITIONING UNITS SERVING ONE AREA, OR THERE IS A COMMON RETURN AIR PLENUM FOR A NUMBER OF AIR CONDITIONING UNITS, ALL SMOKE DETECTORS MUST BE INTERCONNECTED TO SHUT OFF ALL EQUIPMENT EVEN WHEN SMOKE IS DETECTED BY ONLY ONE SMOKE DETECTOR. DUCT HEATERS AND PRESSURE DIFFERENTIAL FAN MUST BE INSTALLED FOR EACH DUCT SMOKE DETECTOR LOCATION IN ACCORDANCE WITH U.L. LISTING, AND (CC10-355). ADDITIONAL THERMOSTATS MUST NOT BE INSTALLED WHEN ALL ELEVATOR HAVE DIRECT EXIT TO THE EXTERIOR OF THE BUILDING.
3. ALL WORK SHALL COMPLY WITH REQUIREMENTS OF ALL APPLICABLE CODES, LAWS, ORDINANCES AND REGULATIONS OF ALL AUTHORITIES HAVING JURISDICTION. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS. ADDITIONAL PLAN CHECK FEES, INSPECTIONS, ETC. AND PROMPTLY SIGNED, CERTIFIED AND ACCEPTABLE COPIES TO THE OWNER FOR THE RECORDS.
4. CONTRACTOR SHALL PROVIDE FIRE DAMPERS AT FIRE RATED PENETRATIONS.
5. DUCTS OPENING INTO CORRIDOR SHALL HAVE INSTALLED A CONFORMING FIRE/SMOKE DAMPER CONFORMING TO 2012 CMC STANDARDS. FIRE DAMPER DETAIL SHOWN TO BE REFERENCE ONLY. FIRE DAMPERS SHALL BE STAMPED FIRE MANUFACTURER APPROVED AND INSTALLED STRICTLY PER MANUFACTURER'S PRINTED INSTRUCTIONS. MANUFACTURER'S INSTALLATION INSTRUCTIONS SHALL BE MADE AVAILABLE TO THE INSPECTOR AUTHORITIES.
6. DUCT VELOCITY AND PRESSURE DIFFERENTIAL SHALL BE VERIFIED FOR EACH DUCT SMOKE DETECTOR LOCATION IN ACCORDANCE WITH U.L. LISTING, AND (CC10-355).
7. ACCESS TO DAMPER SERVICE, REPAIR AND REPLACEMENT WITHOUT WARNING, PERMANENT CONSTRUCTION TO ALL EQUIPMENT SHALL BE PROVIDED. UNLESS OTHERWISE SPECIFIED NOT LESS THAN 30 INCHES OF WORKING SPACE AND PLATFORM SHALL BE PROVIDED.
8. SUPPLY REGISTERS WITHOUT GRILLWORK OR GRILLWORK AREA LESS THAN 75% OF FREE FLOOR AREA, SHALL HAVE A MECHANically OPERATED VERMIRIT SYSTEM CAPABLE OF PROVIDING A COMPLETE CHANGE OF AIR EVERY 10 MINUTES IN ANY CHAMBER PER HOUR. TOTAL EXHAUST DUCTS SHALL BE DIRECTLY CONNECTED TO THE OUTSIDE AND SHALL BE OF SMOOTH NON-ABSORBENT AND NON-COMBUSTIBLE SURFACE MATERIAL.
9. ALL GAS BRANCHES MUST BE 18 FEET MINIMUM AWAY FROM ALL PLUMBING OR APPLIANCE VENTS FOR 3'-0" MINIMUM BELOW APPLIANCE VENTED. VENT SHALL BE CONNECTED WITH SCREEN MAXIMUM, A 1/2" OPENING. 2012 CMC SECTION 407.2 VENT CAPACITY FOR EACH AREA SHALL BE PER 2012 CMC APPENDIX C.
10. ENVIRONMENTAL EXHAUST SUCH AS BATHROOM, DRYER VENT, ETC. SHALL TERMINATE AT LEAST 3 FEET FROM PROPERTY LINE, ANY OPERABLE WINDOW AND 10 FEET AWAY FROM ANY FRESH AIR INTAKE. PRODUCT CONVEYING EXHAUST, SUCH AS CANINE VENTILATION EXPRESSION KITCHEN VENTS ETC. SHALL TERMINATE AT LEAST 10 FEET FROM PROPERTY LINE, OPENINGS INTO THE BUILDING, FRESH AIR INTAKE, ANY ADJACENT BUILDING, GAUGE, AND 3 FEET FROM EXTERIOR WALL OR ROOF.
11. ALL PENETRATIONS IN FIRE WALLS AND FLOOR-AND ROOF-CEILING ASSEMBLIES REQUIRING PROTECTED OPENING SHALL BE FIRE STOPPED PROVIDE FIRE STOPPING SPECIFICATIONS BUILDING, MANUFACTURER AND REPORT OF APPROVED DESIGN, AGENCY.
12. ALL PENETRATIONS OR OPENINGS IN CONSTRUCTION - ASSEMBLIES FOR PIPING, HEATING, VENTILATION, OR EXHAUST DUCTS SHALL BE SEALED LIMIT INSULATED OR OTHERWISE FITTINGS TO MAINTAIN THE ORIGINAL RATINGS.
13. ALL FLUE DUCTS, PIPES AND APPLIANCE VENTS LOCATED IN BEYOND ASSEMBLIES SHALL BE SEALED FROM THE BUILDING, CONSTRUCTION FIRE PRIMER. ALL EXTERIOR SUPPORTS, MOUNTS, OR MEMBERS LIKE SHALL APPROVED CONSTANT PERTINENT DESCRIPTION. GAS PIPING, WELD NOT BE LINED.
14. CLOTHES DRYER EXHAUST DUCTS MUST BE OF METAL.
15. ALL GAS FIRED HEATING EQUIPMENT SHALL BE TEST PILOT (ESIS) TYPE.
16. PROVIDE 48" CLEARANCE ON FRONT SIDES AND BACK OF THE FURNACE.
17. SEAL THE CEILING, MANNED EXHAUST FAN HOUSING TO THE CEILING MEMBRANE USE U.L. APPROVED FIRE STOPPING SEALANT.

ENERGY

1. BACK-DRAFT DAMPERS FOR ALL EXHAUST AND FAN SYSTEMS SHALL BE PROVIDED.
2. ALL WATER HEATING AND AIR CONDITIONING EQUIPMENT, SPRINKLER HEADS AND FACETS SHALL BE C.U.L. LISTED.
3. AUTOMATIC TEMPERATURE CONTROL DEVICE FOR REGULATION OF SPACE TEMPERATURE SHALL BE EQUIPPED WITH NIGHT SET BACK AND HAVE THE ABILITY TO OVERRIDE THE HEATING AND THE COOLING IN SEQUENCE. CONTROLS SHALL BE ADJUSTABLE TO PROVIDE A RANGE OF UP TO 10 DEGREES F BETWEEN FULL HEATING AND FULL COOLING, AND HAVE A CAPACITY OF TEMPERING ALL HEATING AT A TEMPERATURE NO MORE THAN 20 DEGREES F AND COOLING AT A TEMPERATURE NO LESS THAN 20 DEGREES F.
4. AC UNITS ONE AUTOMATIC SERVICE TEMPERATURE CONTROL DEVICE (THERMOSTATS) SHALL BE PROVIDED FOR EACH ZONE AND FOR EACH SEPARATE HVAC SYSTEM. EACH MORE THAN ONE FLOOR OF BUILDING, SHALL BE INCLUDED.
5. ALL AIR CONDITIONING UNITS TO BE EQUIPPED WITH MANDATORY MANUAL SCHEDULES AND TIMES.
6. ALL AIR CONDITIONING UNITS TO BE EQUIPPED WITH A READILY ACCESSIBLE MANUALLY ACTUATED AUTOMATIC MEANS OF DISABLING THE ENERGY USED FOR HVAC HEATING, PERIOD OF NON USE OR ALTERNATE USE OF THE BUILDING WHICH SHALL BE ZONES SERVED BY THE SYSTEM, SUCH AS A TIME CLOCK OR TIME SWITCH.
7. EACH MECHANICAL OR GRAVITY VENTILATION, HVAC EXCEPT ATTIC VENTILATORS SHALL BE EQUIPPED WITH AN AUTOMATIC TYPE MANUALLY CONTROLLED DAMPER AND DAMPER TO SERVE AS A MEANS OF PREVENTING AIR WASTE REDUCTION AND OR SHUT OFF WHEN VENTILATION IS NOT REQUIRED. (DOES NOT APPLY TO COMBUSTION AIR OPENINGS)

QUALITY CONTROL

1. PROVIDE AS BUILT DRAWINGS AND SUBMIT COPIES TO THE OWNER.
2. CONTRACTOR SHOULD SUBMIT SHOP DRAWINGS, EQUIPMENT MANUALS, ANCHOR BOLTS AND METHODS OF INSTALLATION MUST HAVE CITY APPROVAL AND MAY BE SUPPLIED BY MFG OR EQUIV.
3. IF IS THE SPECIFIC INTENT OF THIS DESIGN CONDITIONS THAT THE ENTIRE SYSTEM INCLUDING EQUIPMENT DUCTWORK AND OUTLETS/INLETS AND ALL OTHER PARTS, BE NOISELESS AND FREE OF VIBRATION TRANSMISSION. PROVIDE AND INSTALL VIBRATION ISOLATORS OF DAMPERS, STRONG INSTALLATION PARTS, FLEXIBLE CONNECTORS AND SPRING MATERIAL AS REQUIRED. INSTALL VIBRATION DAMPERS ON ALL DUCTS AS THAT AS POSSIBLE FROM AIR INSTRUMENT. MAKE THE NECESSARY MODE OF VIBRATION CORRECTIONS BY INSTALLING THESE ITEMS AT NO COST TO THE OWNER.
4. FIRE DAMPERS ARE IN FIRE DOCUMENTS AND ARE REFERENCE TO EXHIBIT THE SCOPE OF THE WORK. THEY INCLUDE THE GENERAL ARRANGEMENT AND APPROPRIATE SIZES OF EQUIPMENT (VACTORS, PIPE, ADDRESS ETC. FOLLOW THE DRAWINGS AS CLOSELY AS PRACTICAL IN DATA, THE WORK. BE SURE TO BE CORRECT IN THE DRAWINGS.

AND CONSULT THE CONSTRUCTION DRAWINGS OF THE OTHER TRADES TO ASSURE THEIRS WITH ALL CONDITIONS ATTENTION, THE WORK.

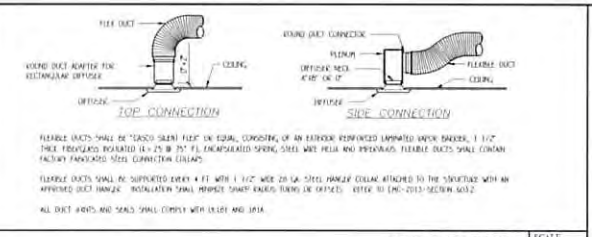
5. UPON COMPLETION OF AND AFTER CLEANING OF SYSTEM AND EQUIPMENT, CONSULTS AGENT FOR MAKING OPERATION OF THE AUTOMATIC PARTS OF HEATING, VENTILATION, AND AIR CONDITIONING, SYSTEMS.
6. EQUIPMENT AND DUCTWORK EXPOSED TO WEATHER MUST BE WEATHERPROOFED.
7. WHEN MORE THAN ONE PIECE OF EQUIPMENT ARE INSTALLED ON ROOF OR A COMMON AREA - LABEL EACH PIECE EQUIPMENT TO IDENTIFY THE AREA IT SERVES.
8. CONTRACTOR SHALL BALANCE AIR SYSTEM TO THE CFM CAPACITY AS SHOWN ON FLOOR.
9. APPLIANCES DESIGNED TO BE FIXED IN POSITION SHALL BE SECURELY FASTENED IN.
10. PLUMBING AND INSULATION OF ALL LOW VOLT WIRING FOR MECHANICAL SYSTEMS SHALL BE BY THE MECHANICAL CONTRACTOR.
11. ALL NECESSARY EQUIPMENT CURBS, BUNKERS, PLATFORMS, FLOORING, PATCHING, CUTTING, PAINTING, SHAFTS, PADDING, FLOORING AND PAINTING SHALL BE BY THE GENERAL CONTRACTOR.
12. ALL NECESSARY DRAINS, GAS CONDENSATE DRAINS WITH SUPPLY, DRAIN LIP, WATER INSULATION, FINAL CONNECTIONS SHALL BE BY THE PLUMBING CONTRACTOR.
13. PLUMBING AND INSULATION OF ALL LOW VOLT WIRING, ALL LOW AND LINE VOLT CONDUITS AND ACCESSORIES FOR MECHANICAL SYSTEMS SHALL BE BY THE ELECTRICAL CONTRACTOR. THE CONDUIT FOR LOW VOLTAGE WIRING OF MECHANICAL SYSTEM EXPOSED TO THE WEATHER SHALL BE APPROVED FOR EXTERIOR USE AND BE BY THE ELECTRICAL CONTRACTOR.

GENERAL NOTES:

1. THE INTENT OF THE DRAWINGS AND SPECIFICATIONS IS TO PROVIDE A NEW HVAC SYSTEM COMPRISING OF ELECTRIC HEATING AND COOLING UNITS W/ VERTICAL DISCHARGE DUCTS AND AIR DISTRIBUTION AS INDICATED ON DRAWINGS & SPECIFICATIONS.
2. ALL WORK SHALL CONFORM TO THE CURRENT EDITION OF CMC 2010, THE REQUIREMENTS SET FORTH IN THIS PROJECT SPECIFICATIONS, AND ALL NOTES AND DRAWINGS, WHEREVER PROVIDES THE MORE STRINGENT REQUIREMENTS.
3. CONTRACTOR SHALL VISIT THE JOB SITE AND VERIFY ALL DIMENSIONS BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REVOLUTION OF SUBSTITUTION CONDITIONS AND COORDINATION OF ALL WORK TO ENSURE COMPLETE COMPLIANCE WITH DRAWINGS AND SPECIFICATIONS. REPORT ANY DISCREPANCIES OR POTENTIAL PROBLEMS TO THE OWNERS REPRESENTATIVE IN WRITING PRIOR TO PROCEEDING WITH WORK. FAILURE TO SO SHALL CONSTITUTE ACCEPTANCE OF EXISTING CONDITIONS. IN THE EVENT THAT DUCT NOT FOUND REQUIREMENTS OR AMBIGUITIES IN OR OMISSIONS FROM THE DRAWINGS OR SPECIFICATIONS OR SHOULD THERE BE DOUBT AS TO THEIR MEANING, AND REPORT THE OWNER'S REPRESENTATIVE SHALL BE NOTIFIED TO PROVIDE A WRITTEN CLARIFICATION. ANY WORK REQUIRED TO CORRECT THE DISCREPANCY SHALL BE ACCOMPLISHED TO THE SATISFACTION OF OWNER'S REPRESENTATIVE AT NO ADDITIONAL COST.

ANCHORAGE INFORMATION

1. CONTRACTOR TO ANCHOR PACKAGE UNIT AS PER MANUFACTURER'S SPECIFICATION.
2. EIGHT AND FOURTEEN INCH HIGH ROOF CURBS PROVIDE A WATER-TIGHT SEAL BETWEEN THE UNIT AND THE FINISHED ROOF. THESE FULL PROPRIETOR CURBS MEET THE REQUIREMENTS OF THE NATIONAL ROOFING CONTRACTORS ASSOCIATION (NRCA) AND ARE SHIPPED KNOCKED-DOWN FOR FIELD ASSEMBLY.
3. ROOF CURBS ARE DESIGNED TO FIT RIGHT THE BACK EDGE OF THE UNIT AND INCLUDE BOTH A WOOD NAILING STRIP AND DUCT HANGER SUPPORTS.

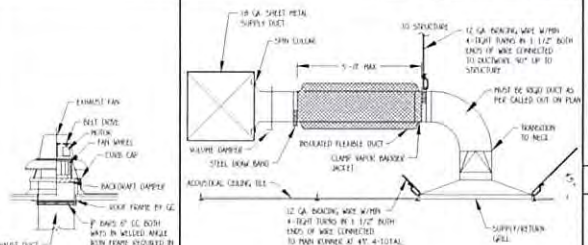


FLEXIBLE DUCTS SHALL BE "FLEXCO SILENT FLEX" OR EQUAL, CONSISTING OF AN EXTERIOR REINFORCED LAMINATED VAPOR BARRIER, 1 1/2" THICK FIBERGLASS INSULATED (6 - 25 @ 70° F), ENCAPSULATED SPRING STEEL WIRE HELIX AND IMPERVIOUS FLEXIBLE DUCTS SHALL CONTAIN FACTORY FABRICATED STEEL CONNECTION COLLARS.

FLEXIBLE DUCTS SHALL BE SUPPORTED EVERY 4 FT. WITH 1 1/2" WIDE 20 GA. STEEL HANGER COLLAR ATTACHED TO THE STRUCTURE WITH AN APPROVED DUCT HANGER. INSTALLATION SHALL PROVIDE SMOOTH BENDS (NO OFFSETS). REFER TO CMC-2013-SECTION 603.2

ALL DUCT JOINTS AND SEALS SHALL COMPLY WITH UL181 AND 181A.

FLEX DUCT DETAIL — SCALE NTS

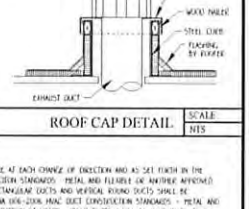


EXHAUST FAN — SCALE NTS

DIFFUSER DETAIL — SCALE NTS

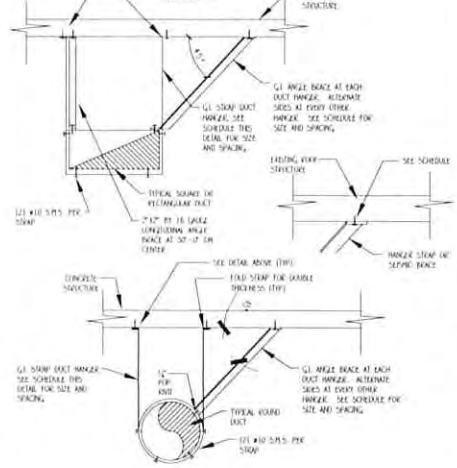
SYMBOL & NOMENCLATURE	DESCRIPTION
	NEW WORK
	MATCH LINE
	EQUIPMENT DESIGNATION
T, R, S	THERMOSTAT, HUMIDISTAT, SENSOR
SA, SA, RA, EA	OUTSIDE AIR, SUPPLY, RETURN AIR, EXHAUST
	SUPPLY AIR DUCT
	RETURN, EXHAUST, OR OSA DUCT
	DUCT DROP IN DIRECTION OF AIR FLOW
	DUCT RISE IN DIRECTION OF AIR FLOW
	LINED DUCT
	TURNING VANES
	FLEXIBLE DUCT CONNECTION
BD	BACKDRAFT DAMPER
VD	VOLUME DAMPER
CD	ELECTRICAL CONTROL DAMPER
PD	PNEUMATIC CONTROL DAMPER
FD	FIRE DAMPER
2 1/4	LAMINATED DUCT WALL SEE MECH DWGS
	UNDERCUT DOOR - 1/2" ABOVE FINISHED FLOOR (SEE ARCHITECTURAL DWGS)
AD, AP	ACCESS DOOR, ACCESS PANEL
CAP	CAP OR SPIDER
(1) 12 x 12 OD 12 OD	(1) 12 x 12 CEILING DIFFUSER, REGISTER GRILLE, KRUEGER, METALAIRE REGISTER (PRESSURE PATTERN DAMPER)
(2) 12 x 12 OD 12 OD, 8 OD, 8 OD	(2) 12 x 12 CEILING DIFFUSER, REGISTER GRILLE, KRUEGER, METALAIRE REGISTER (PRESSURE PATTERN DAMPER)
(3) 8" x 12 OD 12 OD, 8 OD, 8 OD	(3) 12 x 12 CEILING DIFFUSER, LINEAR GRILLE, KRUEGER, METALAIRE REGISTER (PRESSURE PATTERN DAMPER)
LVR	LOUVER - SEE ARCHITECTURAL DWGS
	FLOW TO BE FURNISHED AND INSTALLED UNDER ELECTRICAL DIVISION
OTR	UP THRU ROOF
SA/RA	SUPPLY AIR/RETURN AIR

SYMBOLS — SCALE NTS



ROOF CAP DETAIL — SCALE NTS

MAX. DUCT WIDTH	MAX. DUCT SIZE FOR HELIX	HANGER STRAP	SEISMIC BRACE	MAXIMUM SPACING	ATTACH BOLT DIA. & LENGTH
10 1/2" DIA.	UP TO 30"	1" X 14 GA	1 1/2" x 1 1/2" x 16 GA	8'-0" O.C	1/2" x 1 1/2" L.
12" TO 24" DIA.	31" TO 42"	1" X 14 GA	2" x 2" x 16 GA	8'-0" O.C	1/2" x 1 1/2" L.
	43" TO 60"	1" X 14 GA	3" X 3" X 16 GA	6'-0" O.C	1/2" x 1 1/2" L.



METAL DUCTS

DUCTS SHALL BE SECURELY FASTENED IN PLACE AT EACH CHANGE OF DIRECTION AND AS SET FORTH IN THE ANSI/SMACNA 006-2006 HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE OR ANOTHER APPROVED DUCT CONSTRUCTION STANDARD. VERTICAL RECTANGULAR DUCTS AND VERTICAL ROUND DUCTS SHALL BE SUPPORTED AS SET FORTH IN THE ANSI/SMACNA 006-2006 HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE OR ANOTHER APPROVED DUCT CONSTRUCTION STANDARD. VERTICAL DUCTS SHALL BE FIXED IN PLACE BY MEANS OF METAL STRAPS OR ANGLES AND CHANNELS TO SECURE THE REDUCE TO THE STRUCTURE.

METAL DUCTS SHALL BE INSTALLED WITH AT LEAST FOUR (4) INCHES (100mm) SEPERATION FROM EARTH. METAL DUCTS WHEN INSTALLED IN OR UNDER A CONCRETE SLAB SHALL BE ENCASED IN AT LEAST TWO (2) INCHES (50mm) OF CONCRETE.

DUCTS SHALL BE INSTALLED IN A BUILDING WITH ADEQUATE CLEARANCE SO AS TO PERMIT RETAINING THE FULL THICKNESS OF INSULATION ON STRUCTURAL METHODS.

SUPPORTS FOR RECTANGULAR DUCTS AS SET FORTH IN ANSI/SMACNA 006-2006 HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE OR ANOTHER APPROVED DUCT CONSTRUCTION STANDARD. WHEN SUSPENDED FROM ABOVE SHALL BE INSTALLED ON TWO OPPOSITE SIDES OF EACH DUCT AND SHALL BE RIVETED, BOLTED, OR METAL SCREWED TO EACH SIDE OF THE DUCT AT NOT MORE THAN THE INTERVALS SPECIFIED.

HORIZONTAL ROUND DUCTS FORTY (40) INCHES (1,000mm) OR LESS IN DIAMETER, WHEN SUSPENDED FROM ABOVE SHALL BE SUPPORTED AT INTERVALS NOT MORE THAN AS SET FORTH IN THE ANSI/SMACNA 006-2006 HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE OR ANOTHER APPROVED DUCT CONSTRUCTION STANDARD WITH ONE HANGER INSTALLED TO COMPLY WITH THE REQUIREMENTS LISTED BELOW:

1. DUCTS SHALL BE EQUIPPED WITH TIGHT-FITTING CIRCULAR BANDS EXTENDING AROUND THE ENTIRE PERIMETER OF THE DUCT AT EACH SPECIFIED SUPPORT INTERVAL.
2. CIRCULAR BANDS SHALL BE NOT LESS THAN ONE (1) INCH (25mm) WIDE NOR LESS THAN EQUIVALENT TO THE GAUGE OF THE DUCT MATERIAL IT SUPPORTS.

(EXCEPTION: DUCTS TEN (10) INCHES (254mm) AND LESS IN DIAMETER MAY BE CONNECTING TO THE SUSPENDING SUPPORT.)

3. EACH CIRCULAR BAND SHALL BE FITTINGED WITH A SUITABLE MEANS OF CONNECTING TO THE SUSPENDING SUPPORT.
4. DUCTS SHALL BE BRACED AND GUYED TO PREVENT LATERAL OF HORIZONTAL SWING.

NOTE

A. HORIZONTAL ROUND DUCTS SHALL BE BRACED AND GUYED TO PREVENT LATERAL OF HORIZONTAL SWING. CMC SECTION 603.2.5
B. DUCTS SHALL BE EQUIPPED WITH TIGHT-FITTING, CIRCULAR BANDS EXTENDING AROUND THE ENTIRE PERIMETER OF THE DUCT AT EACH SPECIFIED SUPPORT INTERVAL. CMC SECTION 603.2.2
C. HEATING, VENTILATING, AND AIR CONDITIONING SYSTEM (INCLUDING HYDRONIC SYSTEMS) SHALL BE BALANCED IN ACCORDANCE WITH ONE OF THE FOLLOWING METHODS:
C.A. ABBC NATIONAL STANDARDS FOR TOTAL SYSTEM BALANCE
C.B. ACCA MANUAL B
C.C. ASHRAE 111
C.D. NEBB PROCEDURAL STANDARD FOR TESTING, BALANCING OF ENVIRONMENTAL SYSTEMS
C.E. SMACNA HVAC SYSTEMS TESTING, ADJUSTING, AND BALANCING, CMC SECTION 317.1
D. ALL DUCT WORK ABOVE T-BAR AND HARD LID CEILING SHALL BE FLEX DUCTS.

SPIRAL/RECTANGULAR DUCT HANGER DETAIL — SCALE NTS

SINGLE LINE DIAGRAM — SCALE NTS

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STAMP

REGISTERED PROFESSIONAL ENGINEER RAY CHATTAS No. M 21305 Exp. 06/30/25 MECHANICAL STATE OF CALIFORNIA

DATE SIGNED 03/11/25

OWNER / TENANT

PROJECT TITLE: VICKY'S BUBBLY CAFE

PROJECT ADDRESS: 14782 Crenshaw Blvd. Gardena, CA 90249

REVISIONS

NO	DATE	DESCRIPTION

DRAWN BY: DARRYL MURRAY

CHECKED BY: RG/ML

PRINTED ON: 03/11/2025

PERMIT NO:

TITLE: MECHANICAL GENERAL NOTES AND DETAILS

SHEET #: M1.0

NO. OF

NOTE:

1. REFRIGERATED SPACES SHALL MEET OR EXCEED THE REQUIREMENTS OF THE APPLIANCE EFFICIENCY REGULATIONS (CALIFORNIA CODE OF REGULATIONS, TITLE 20, SECTION 1601 THROUGH 1608).
2. FIRE DEPARTMENT APPROVAL SHALL BE REQUIRED ON FIRE PROTECTION SYSTEM FOR GREASE HOODS AND DUCTS AS REQUIRED BY SECTION 513 OF THE CALIFORNIA MECHANICAL CODE AND AS REQUIRED BY THE FIRE CODE.
3. CONTRACTOR TO INTERCONNECT THE FUEL OR CURRENT SUPPLY SO THAT THE FUEL OR CURRENT IS AUTOMATICALLY SHUT OFF TO ALL EQUIPMENT UNDER THE HOOD WHEN THE SYSTEM IS ACTIVATED.
4. THE OWNER OF THE ESTABLISHMENT SHALL BE RESPONSIBLE FOR CLEANLINESS, MAINTENANCE, AND INSPECTION OF KITCHEN EXHAUST SYSTEM, FIRE PROTECTION, AND COOKING EQUIPMENT.
5. ALL SEAMS, JOINTS, AND PENETRATIONS OF THE HOOD ENCLOSURE THAT COLLECT AND CAPTURE GREASE-LADEN VAPORS AND EXHAUST GASES SHALL HAVE A LIQUID TIGHT CONTINUOUS EXTERNAL WELD TO THE LOWER HORIZONTAL PERIMETER OF THE HOOD.
6. PRIOR TO THE USE OR CONCEALMENT OF A PORTION OF A GREASE DUCT SYSTEM, A LEAKAGE TEST SHALL BE PERFORMED TO DETERMINE THAT ALL WELDED JOINTS AND SEAMS ARE LIQUID TIGHT.
7. PERFORMANCE, CAPTURE AND CONTAINMENT TESTS SHALL BE PERFORMED UPON INSTALLATION BEFORE FINAL. TEST DATA AND PERFORMANCE TEST RESULTS SHALL BE DISPLAYED AND BE AVAILABLE UPON REQUEST.
8. HOOD EXHAUST FAN SHALL CONTINUE TO OPERATE AFTER THE EXTINGUISHING SYSTEM HAS BEEN ACTIVATED UNLESS FAN SHUTDOWN IS REQUIRED BY A LISTED COMPONENT OF THE VENTILATION SYSTEM.
9. TYPE 1 HOODS SHALL BEAR A LABEL INDICATING THE EXHAUSTING FLOW RATE IN CUBIC FEET PER MINUTE PER LINEAL FOOT.

MANDATORY MEASURES NOTES:

A. THE THERMOSTATIC CONTROLS FOR HVAC SYSTEMS SHALL BE CAPABLE OF BEING SET LOCALLY OR REMOTELY BY TO CONTROL COMFORT HEATING, DOWN TO 55°F OR LOWER OR COOLING, UP TO 85°F OR HIGHER. THE THERMOSTATIC CONTROLS SHALL BE CAPABLE OF PROVIDING A DEAD BAND RANGE OF AT LEAST 5°F WITHIN WHICH HEATING AND COOLING ENERGY TO THE ZONE IS SHUT OFF OR REDUCE TO A MINIMUM. SEC 120.2 (J)(3).

B. AIR DISTRIBUTION SYSTEM DUCTS AND PLENUMS, INCLUDING, BUT NOT LIMITED TO BUILDING CAVITIES, MECHANICAL CLOSETS, AIR HANDLER BOXES AND SUPPORT PLATFORMS USED AS DUCTS OR PLENUMS, SHALL BE INSTALLED, SEALED AND INSULATED TO MEET THE REQUIREMENTS OF CHAPTER. CMC CODE AND ANSI/SMACNA-006-2006 HVAC DUCT CONSTRUCTION STANDARDS METAL AND FLEXIBLE. SUPPLY AIR DUCTS CONVEYING HEATED OR COOLED AIR SHALL BE INSULATED TO A MINIMUM INSTALLED LEVEL OF R-4.2 (R-8 IN UNCONDITIONED SPACES), UNLESS DUCTS ARE IN CONDITIONED SPACE. SEC 120.4 (B).

C. MAXIMUM LENGTH OF FLEXIBLE DUCT AND CONNECTORS SHALL NOT BE MORE THAN 5 FEET. FLEXIBLE DUCTS SHALL NOT BE USED IN LIEU OF RIGID ELBOWS.

D. LAVATORIES IN PUBLIC RESTROOMS SHALL HAVE CONTROLS THAT LIMIT THE WATER SUPPLY TEMPERATURE TO 110°F.

E. DUCT SYSTEMS USED WITH BLOWER TYPE EQUIPMENT WHICH ARE PORTIONS OF A HEATING, COOLING, ABSORPTION, EVAPORATIVE COOLING, OR OUTDOOR AIR VENTILATION SYSTEM SHALL BE SEALED IN ACCORDANCE WITH CHAPTER 17 OF THE CALIFORNIA MECHANICAL CODE.

EF 1 — PANASONIC #FV-11VQ2C-03 SONE TOILET EXHAUST FAN OR #FV-11VQ03 (W/LIGHT). 932 RPM, 110 CFM @ 0.1" SP, 10W, 0.17A, WITH INTEGRAL BACK DRAFT DAMPER. EXHAUST DUCT SHALL BE MADE OF METAL.

EQUIPMENT SPECIFICATION LIST

FIXTURE AND EQUIPMENT

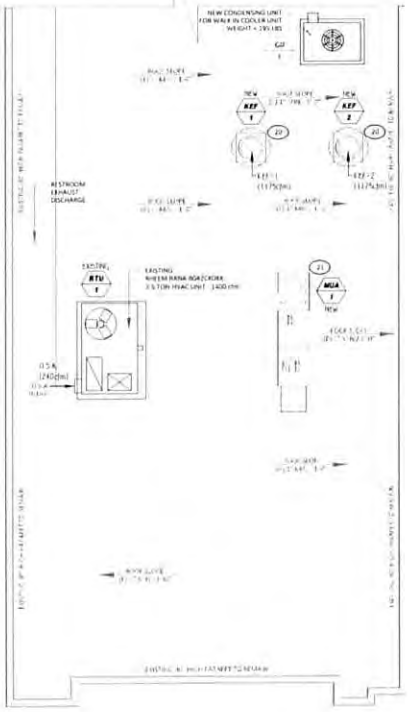
ITEM	QTY	DESCRIPTION	MFG & MODEL NO.	SUPPLIER	INSTALLER	MOUNTING METHOD
AT	1	COOLER CONDENSER UNIT +25°	RUNNER KDH125-45-OA	FSEC	GC	ROOF
AB	1	COOLER EVAPORATOR FAN	RUNNER KDA7M	FSEC	GC	CEILING

ELECTRICAL

LOAD VOLTAGE	H.P.	KW.	AMPS	CONN.	REMARKS
208/1φ/60	-	-	15 A	DIRECT	VERIFY LOCATION & REQUIREMENTS WITH MECHANICAL PLANS & EQUIPMENT SPEC SHEET.
120/1φ/60	-	-	32 A	C.O.	VERIFY LOCATION W/ MECHANICAL PLANS & EQUIPMENT SPEC SHEET.

PLUMBING

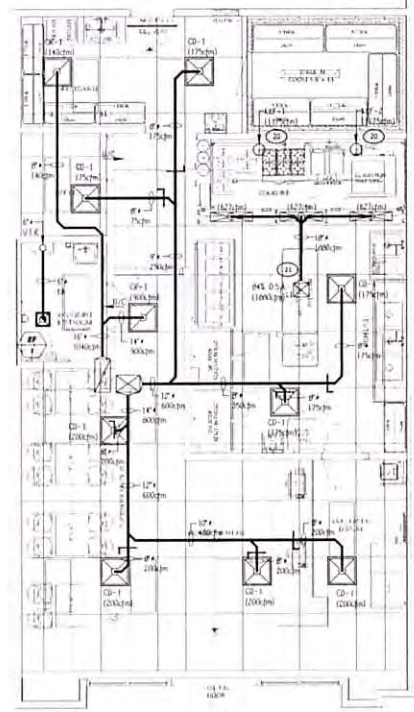
WATER HOT	WATER COLD	WASTE	B.T.U. CONN.	GAS CONN.	REMARKS
-	-	-	-	-	
-	-	3/4" 10 W	-	-	CONDENSATE DRAIN TO FLOOR SINK BY PLUMBING CONTRACTOR



PROPOSED HVAC ROOF PLAN — SCALE 1/4" = 1'-0"

AIR CHANGES PER HOUR PER ROOM AND AVE AT BOTTOM

Room Number	Room Names	MIN/ ACH	Room Area	Ceiling height	Cubic Feet	CFM of the room	*60	NEG. PRES.	AC/Hr
1	Pickup/Dining	7.5	538	9.0	4,842	800	48,000		9.9
2	Kitchen Prep	7.5	247	9.0	2,223	350	21,000		9.4
3	Office	5.0	44	9.0	396	75	4,500		11.4
4	Restroom	-	51	8.0	459		0		0.0
5	Storage	5.0	182	9.0	1,638	175	10,500		6.4
						1,400	ACH COMPLETE		9.3



PROPOSED HVAC PLAN — SCALE 1/4" = 1'-0"

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REGISTERED PROFESSIONAL ENGINEER — RAY CHATFAS — No. M 21305 — Exp. 06/30/25 — MECHANICAL — CALIFORNIA

DATE SIGNED 03/11/25

OWNER / TENANT

PROJECT TITLE

VICKY'S BUBBLY CAFE

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14782 Crenshaw Blvd.
Gardena, CA 90249

REVISIONS

NO	DATE	DESCRIPTION

DRAWN BY: DARRYL MURRAY

CHECKED BY: RG/ML

PRINTED ON 03/11/2025

PERMIT NO:

TITLE

MECHANICAL ROOF AND HVAC PLAN

SHEET #

M2.0

NO OF

FOR QUESTIONS, CALL THE
Los Angeles Office
REGION #1
PHONE: (310) 876 - 8505
EMAIL: reg01@captiveaire.com

PATENT NUMBERS

AC-PSP (UNITED STATES) - US PATENT 7963830 B2
AC-PSP WALL (CANADA) - CA PATENT 2820569
AC-PSP ISLAND (CANADA) - CA PATENT 2820330

HOOD INFORMATION - JOB#7365426

HOOD NO	TAG	MODEL	MANUFACTURER	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH CFM	EXHAUST PLENUM RISER(S) WIDTH	LENG	HEIGHT	DIA	CFM	VEL	SP	TOTAL SUPPLY CFM	HOOD CONSTRUCTION	HOOD CONTROL END TO END	ROW
1		6024 NO-2-PSP-1	CAPTIVEAIRE	13' 8"	450 DEG.	I	MEDIUM	172	2350			4"	10"	1175	2154	-0.9446"	1800	430 SS WHERE EXPOSED	ALONE	ALONE
												4"	10"	1175	2154	-0.9446"				

HOOD INFORMATION

HOOD NO	TAG	FILTER(S) TYPE	QTY	HEIGHT	LENGTH	EFFICIENCY @ 5 MICRONS	LIGHT(S) QTY	TYPE	WIRE GUARD	LOCATION	SIZE	UTILITY CABINET(S) FIRE SYSTEM TYPE	SIZE	ELECTRICAL MODEL #	SWITCHES QUANTITY	FIRE SYSTEM PIPING	HOOD HANGING WEIGHT
1		CAPTIVATE SOLO FILTER	10	16"	16"	85% SEE FILTER SPEC	4	RECESSED ROUND	NO	LEFT	32"x16"x2.5"	TANK FS	4.0"x4.0"x4.0"	DCV-2111	1 LIGHT 1 FAN	YES	1192 LBS

HOOD OPTIONS

HOOD NO	TAG	OPTION
1		FIELD WRAPPER 10.00' HIGH FRONT, LEFT
		BACKSPLASH 10.00' HIGH X 17.00' LONG 430 SS VERTICAL
		RIGHT SIDESPLASH 10.00' HIGH X 10.00' LONG 430 SS VERTICAL
		RIGHT END STANDOFF (FINISHED) 1" WIDE 6" LONG INSULATED
		BACKSPLASH - INSIDE CORNER 10.00' HIGH X 2.00' LEG LENGTH 430 SS VERTICAL
		STRUCTURAL FRONT PANEL
		RISER SENSOR INSTALL ON FLEX
		LEFT VERTICAL END PANEL 27" TOP WIDTH 21" BOTTOM WIDTH 80" HIGH INSULATED 430 SS
		RIGHT WALL #5 END PANEL

CLEARANCE TO COMBUSTIBLES

HOODS #	SURFACE	<CLEARANCE
1	TOP	18"
	FRONT	0"
	BACK	18"
	LEFT	0"
	RIGHT	0"

-- 18" CLEARANCE TO COMBUSTIBLES CONFORMS TO UL710 STANDARD

-- HOOD MOUNTED UTILITY CABINETS REQUIRE 36" SERVICE CLEARANCE.

PERFORATED SUPPLY PLENUM(S)

HOOD NO	TAG	POS	LENGTH	WIDTH	HEIGHT	TYPE	RISER(S) WIDTH	LENG	DIA	CFM	SP
1		Front	17.7"	12"	6"	MUA	8"	36"		626	0.150"
						MUA	8"	36"		626	0.150"
						MUA	8"	36"		626	0.150"

FIRE SYSTEM INFORMATION - JOB#7365426

FIRE SYSTEM NO	TAG	TYPE	SIZE	MAX. FP	DESIGN FP	INSTALLATION SYSTEM	LOCATION ON HOOD
1		TANK FS	4.0"x4.0"x4.0"	60	60	FIRE CABINET LEFT	LEFT, HOOD 1

GAS VALVE(S)

FIRE SYSTEM NO	TAG	TYPE	SIZE	SUPPLIED BY
1		SE ELECTRICAL	2 (in)	CAPTIVEAIRE SYSTEMS

EXHAUST FAN INFORMATION - JOB#7365426

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	MANUFACTURER	CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	SONES
1	KEF-1	1	DUBSHPA	CAPTIVEAIRE	1175	1.100	1232	TEAO-EDM	0.750	0.3300	1	230	5.0	372 FPM	90	9.4
2	KEF-2	1	DUBSHPA	CAPTIVEAIRE	1175	1.100	1232	TEAO-EDM	0.750	0.3300	1	230	5.0	372 FPM	90	9.4

MUA FAN INFORMATION - JOB#7365426

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	BLOWER	HOUSING	TSP CFM	DESIGN CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	MCA	MOCP	EVAP FLOW RATE (GAL/HR)	EVAP COOLER ENTERING DB TEMP	EVAP COOLER ENTERING WB TEMP	EVAP COOLER LEAVING DB TEMP	EVAP COOLER LEAVING WB TEMP	WEIGHT (LBS)	SONES
3	MUA	1	A1-162	6Z-1-HSD	A1	-	1800	0.500	2120	ODP-EDM	1.750	1.1500	1	208	6.2	8.4A	15A	3.27	90.0°F	64.0°F	72.0°F	64.0°F	496	30.1

ELECTRICAL PACKAGE - JOB#7365426

NO	TAG	PACKAGE #	LOCATION	SWITCHES LOCATION	QUANTITY	OPTION	FANS CONTROLLED FAN TAG	TYPE	#	HP	VOLT	FLA
1		DCV-2111	UTILITY CABINET LEFT	HOOD CABINET LEFT	1 LIGHT	SMART CONTROLS DCV	KEF-1	EXHAUST	1	0.750	230	5.0
				HOOD # 1	1 FAN		KEF-2	EXHAUST	1	0.750	230	5.0
							MUA	SUPPLY	1	1.750	208	6.2

SYSTEM DESIGN VERIFICATION (SDV)

IF ORDERED, CAS SERVICE WILL PERFORM A SYSTEM DESIGN VERIFICATION (SDV) ONCE ALL EQUIPMENT HAS HAD A COMPLETE START UP PER THE OPERATION AND INSTALLATION MANUAL. TYPICALLY, THE SDV WILL BE PERFORMED AFTER ALL INSPECTIONS ARE COMPLETE.

ANY FIELD RELATED DISCREPANCIES THAT ARE DISCOVERED DURING THE SDV WILL BE BROUGHT TO THE ATTENTION OF THE GENERAL CONTRACTOR AND CORRESPONDING TRADES ON SITE. THESE ISSUES WILL BE DOCUMENTED AND FORWARDED TO THE APPROPRIATE SALES OFFICE. IF CAS SERVICE HAS TO RESOLVE A DISCREPANCY THAT IS A FIELD ISSUE, THE GENERAL CONTRACTOR WILL BE NOTIFIED AND BILLED FOR THE WORK. SHOULD A RETURN TRIP BE REQUIRED DUE TO ANY FIELD RELATED DISCREPANCY THAT CANNOT BE RESOLVED DURING THE SDV, THERE WILL BE ADDITIONAL TRIP CHARGES.

DURING THE SDV, CAS SERVICE WILL ADDRESS ANY DISCREPANCY THAT IS THE FAULT OF THE MANUFACTURER. SHOULD A RETURN TRIP BE REQUIRED, THE GENERAL CONTRACTOR AND APPROPRIATE SALES OFFICE WILL BE NOTIFIED. THERE WILL BE NO ADDITIONAL CHARGES FOR MANUFACTURER DISCREPANCIES.

SPECIFICATION: CAPTRATE GREASE-STOP SOLO FILTER

THE CAPTRATE GREASE-STOP SOLO FILTER IS A SINGLE-STAGE FILTER FEATURING A UNIQUE S-BAFFLE DESIGN IN CONJUNCTION WITH A SLOTTED REAR BAFFLE DESIGN, TO DELIVER EXCEPTIONAL FILTRATION EFFICIENCY.

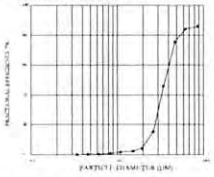
FILTER IS STAINLESS STEEL CONSTRUCTION, AND SIZED TO FIT INTO STANDARD 2-INCH DEEP HOOD CHANNEL(S).

UNITS SHALL INCLUDE STAINLESS STEEL HANDLES AND A FASTENING DEVICE TO SECURE THE TWO COMPONENTS WHEN ASSEMBLED.

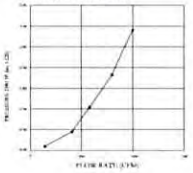
GREASE EXTRACTION EFFICIENCY PERFORMANCE SHALL REMOVE AT LEAST 75% OF GREASE PARTICLES FIVE MICRONS IN SIZE, AND 85% GREASE PARTICLES SEVEN MICRONS IN SIZE AND LARGER, WITH A CORRESPONDING PRESSURE DROP NOT TO EXCEED 1.0 INCHES OF WATER GAUGE.

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

EFFICIENCY VS PARTICLE DIAMETER



PRESSURE DROP VS FLOW RATE



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

"Operation of All Captiveaire Equipment to be Verified by Factory Service Technician. Equipment Must Be Operational and Fire System shall be Hooked-up and Armed. Report to be Sent to Customer by Manufacturer When Complete."

FOR QUESTIONS CALL:
NICK FURBISH
LOS ANGELES SALES OFFICE
REFERENCE JOB NUMBER
PHONE: 310 876 8505 REG01@CAPTIVEAIRE.COM

DESIGNED AND APPROVED
BY CATIVE AIRE

DARRYL MURRAY INC.
MECHANICAL ENGINEERING
VENTILATION CONSULTANTS
1355 N. 2775 W. Cedar City, UT 84721
Tel: 818.355.0225 Fax: 801.277.7655
darryl@darrylmurrayinc.com

STAMP

REGISTERED PROFESSIONAL ENGINEER
RAY GHATTAS
No. M 21325
Exp. 06/30/25
CALIFORNIA

DATE SIGNED 03/11/25

OWNER / TENANT

PROJECT TITLE
VICKY'S BUBBLY CAFE

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MECHANICAL HOOD DRAWINGS

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M3.0
NO OF

Captrate
Grease Stop Solo Filter

Filter Detail

CAPTRATE

DUCT LENGTH=
DUCT LENGTH=
TOTAL DUCT AREA

CALCULATIONS UTILIZED

CAPTIVE-AIRE HOODS ARE BUILT IN COMPLIANCE WITH:

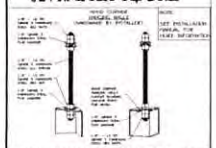
NFPA

Intertek

BUILDING CODES

GREASE CUP WILL BE SUPPORTED BY TWO STUDS ON THE INSIDE WALL OF THE HOOD. THE GREASE WILL DRAIN THROUGH A CONCEALED GREASE DRAIN AND INTO THIS REMOVABLE/CLEANABLE CUP.

1/2 Pint Grease Cup Detail

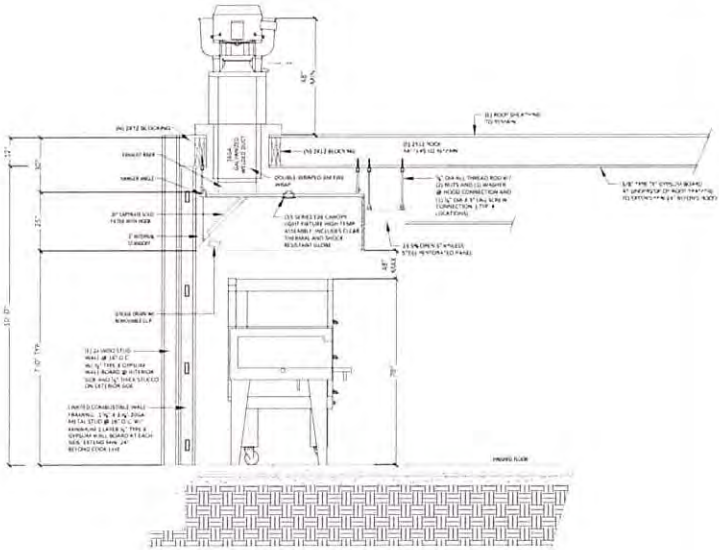


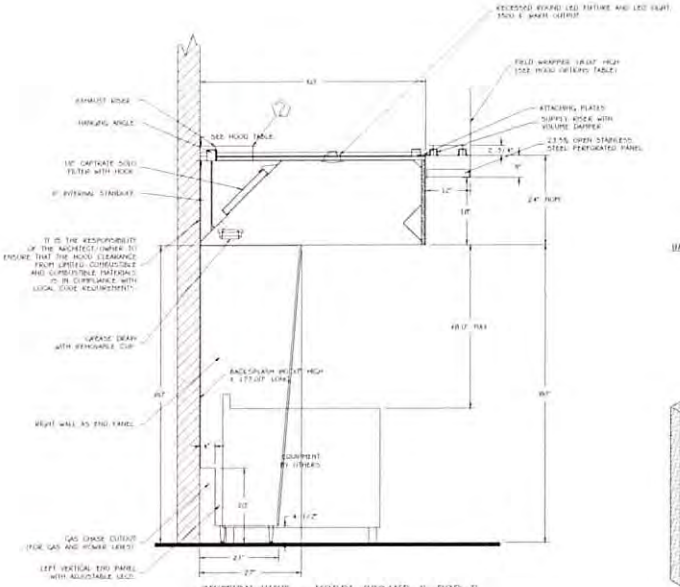
ND-2 HANGING ANGLE DETAIL

HANGING ANGLES WILL BE LOCATED IN THE FOLLOWING LOCATIONS FOR WALL CANOPIES

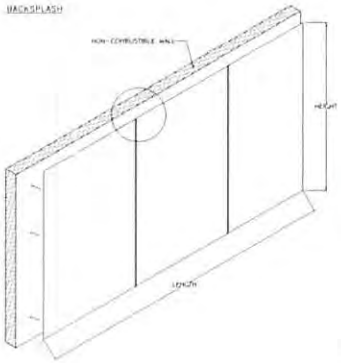
HOOD STYLE		DIM FROM REAR	DIM FROM FRONT (24" High Hood)	DIM FROM FRONT (30" High Hood)
Wall	Exhaust Only	4 166"	2.25"	2.25"
	With MUA		2.25"	2.25"
Back Shelf	Exhaust Only	4 166"	2.25"	2.25"
	With MUA		2.25"	2.25"
Condensate		2.25"	2.25"	

HANGING ANGLE LOCATIONS





SECTION VIEW - MODEL 6024ND-2-PSP-F
HOOD - #1

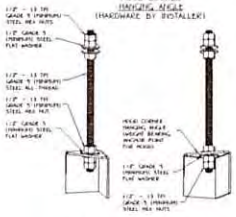


BACKSPLASH PANELS SIZE WITH UNDER BAR

BACKSPLASH IS NOT INSULATED AND IS UNSUITABLE FOR INSTALL AGAINST COMBUSTIBLE WALLS.

DESIGNED AND APPROVED BY CATIVE AIRE

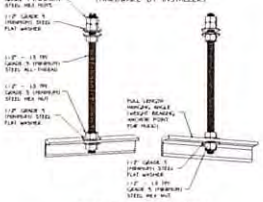
HOOD CORNER HANGING ANGLE (HARDWARE BY INSTALLER)



ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD. SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION BENEATH HOOD HANGING ANGLES AND ABOVE CEILING ANCHORS. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.

FULL LENGTH HANGING ANGLE (HARDWARE BY INSTALLER)



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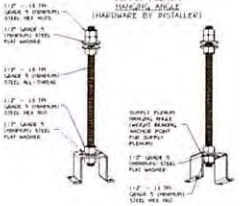
SUPPLY PLENUM HANGING ANGLE (HARDWARE BY INSTALLER)



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NOTE

ALL WALLS THAT COME WITHIN 18" OF THE HOOD MUST BE METAL STUD AND SHEETROCK.
IF WOOD STUDS FACTORY INSTALLED INSULATION REQUIRED, PLEASE ADVISE CAPTIVE AIRE PRIOR TO FABRICATION.

NOTE- Exhaust Collar Must be Factory Installed If A Different Size Or Location is Required. Please Note Change On Submittal.

Rear Discharge is Available. Contact CaptiveAire For Possible Locations.

DARYL MURRAY INC.
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MECHANICAL HOOD DRAWINGS

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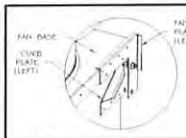
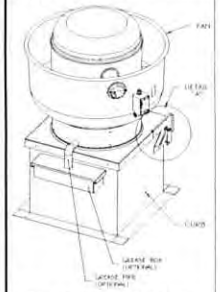


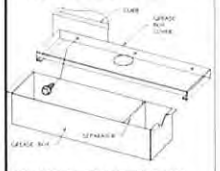
HINGE KIT DETAIL



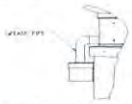
FAN IN CLOSED POSITION

ATTENTION: INSTALLER SHOULD SUPPLY ENOUGH ELECTRICAL CORD TO LET FAN HAVE COMPLETE SWING

FAN IN OPEN POSITION



ATTACH GREASE BOX COVER TO THE CURB 3" BELOW TOP EDGE OF CURB
USING (3) LONG (3/8" LG.) SCREWS AS SHOWN
INSTALL GREASE PIPE AS SHOWN



GREASE BOX INSTALLATION

1. A PRE-WIRED ELECTRICAL CONTROL PACKAGE SHALL BE PROVIDED TO OPERATE THE HOOD LIGHTS AND FAN.
2. PACKAGE SHALL CONSIST OF SWITCH PANEL WITH LIGHT (WATERPROOF) AND RED-LIGHTED FAN SWITCH(ES), STARTER, OVERLOAD ACCORDING TO FAN SPECIFICATIONS, NUMBERED WIRE PIGTAILS, TERMINAL STRIPS, AND A TERMINAL FOR GROUND BUS, FIRE SYSTEM MICROSWITCH CONNECTION.
3. ONE RELAY IS WIRED TO MICROSWITCH ON FIRE SYSTEM FOR SUPPLY FAN. ONE RELAY IS WIRED TO FIRE SYSTEM FOR EXHAUST FAN. SYSTEM ACTUATED DRY CONTACTS.
4. ELECTRICAL CONDUIT DROPS FROM THE PANELS SHALL BE TERMINATED TO THE NUMBERED TERMINAL STRIP. CONDUIT BETWEEN THE PRE-WIRE PACKAGE AND PANELS SHALL BE SUPPLIED BY THE ELECTRICAL CONTRACTOR.

ELECTRICAL PACKAGE NOTES

FAN OPTIONS

FAN UNIT NO	TAG	QTY	DESCRIPTION
1	KEF-1	1	GREASE BOX
		1	FAN BASE CERAMIC SEAL – DUFFERBMFA – INSTALLED AT PLANT – FOR GREASE DUCTS
		1	ECM WIRING PACKAGE – EXHAUST – MODBUS CONTROL –MSC– (TELCO), CCW ROTATION
		1	2 YEAR PARTS WARRANTY
2	KEF-2	1	GREASE BOX
		1	FAN BASE CERAMIC SEAL – DUFFERBMFA – INSTALLED AT PLANT – FOR GREASE DUCTS
		1	ECM WIRING PACKAGE – EXHAUST – MODBUS CONTROL –MSC– (TELCO), CCW ROTATION
		1	2 YEAR PARTS WARRANTY
3	MUA	1	SIZE 3 UNTEMPERED COMMERCIAL DOWN DISCHARGE FOR DIRECT DRIVE MAUS.
		1	EVAPORATIVE COOLER WIRING HARNESS
		1	ECM WIRING PACKAGE SUPPLY – MODBUS CONTROL –MSC– (1 PHASE 208V) PROTECT
		1	2 YEAR PARTS WARRANTY

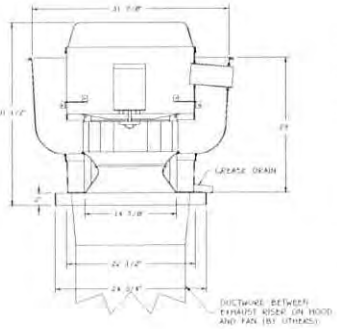
FAN ACCESSORIES

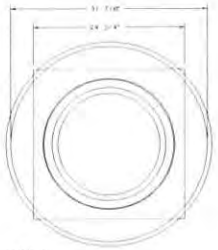
FAN UNIT (NO)	TAG	EXHAUST			SUPPLY			
		GREASE CUP	GRAVITY DAMPER	WALL MOUNT	SIDE DISCHARGE	GRAVITY DAMPER	MOTORIZED DAMPER	WALL MOUNT
1	KEF-1	YES						
2	KEF-2	YES						
3	MUA							

CURB ASSEMBLIES

NO.	ON FAN	TAG	WEIGHT	ITEM	SIZE
1	# 1	KEF-1	36 LBS	CURB	23.00"W X 23.00"L X 20.00"H VENTED HINGED
2	# 2	KEF-2	36 LBS	CURB	23.00"W X 23.00"L X 20.00"H VENTED HINGED
3	# 3	MUA	49 LBS	CURB	21.00"W X 21.00"L X 14.00"H
	# 3			KAB	4.00"W X 4.00"L X 36.00"H
	# 3			KAB	4.00"W X 4.00"L X 36.00"H

FANS #1 (KEF-1), #2 (KEF-2) – DUFFERBMFA EXHAUST FAN





TOP VIEW

FEATURES:

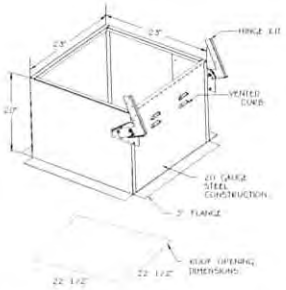
- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS)
- RUST PAINTED FANS
- RESTAURANT MODEL
- SLT/SS AND SLT/AL2 AND SLE-SEAL
- VARIABLE SPEED CONTROL
- INTERNAL WIRING
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE)
- HIGH HEAT OPERATION 300°F (149°C)
- GREASE CLASSIFICATION TESTING
- NEMA 3R SAFETY DISCONNECT SWITCH

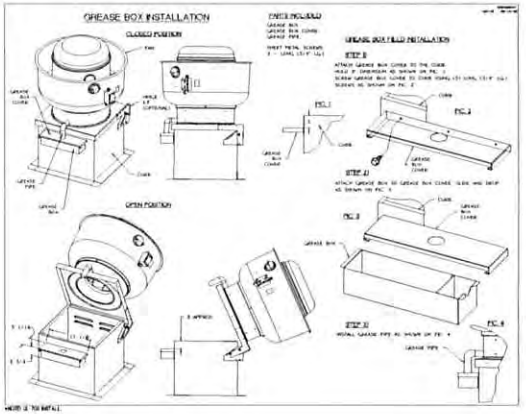
NORMAL TEMPERATURE TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

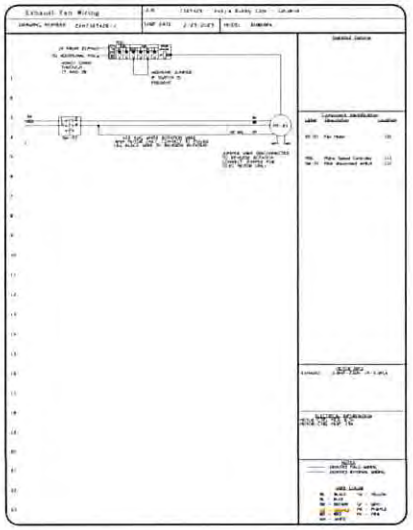
ABNORMAL FLARE-UP TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

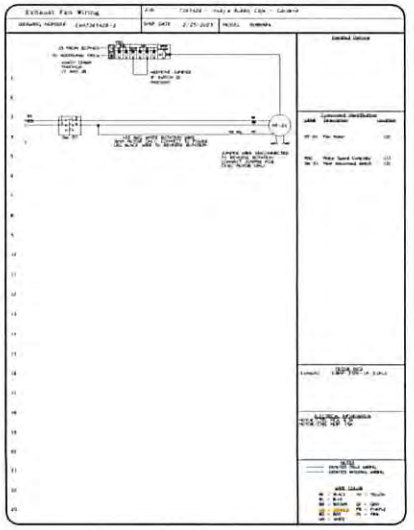
OPTIONS

- GREASE BOX
- FAN BASE CERAMIC SEAL – DUFFERBMFA – INSTALLED AT PLANT – FOR GREASE DUCTS
- ECM WIRING PACKAGE – EXHAUST – MODBUS CONTROL –MSC– (TELCO), CCW ROTATION
- 2 YEAR PARTS WARRANTY









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DATE SIGNED: 03/11/25

OWNER / TENANT

PROJECT TITLE

VICKY'S BUBBLY CAFE

PROJECT ADDRESS

14782 Crenshaw Blvd.
Gardena, CA 90249

REVISIONS

NO	DATE	DESCRIPTION

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CHECKED BY: RG/MJ

PRINTED ON: 03/11/2025

PERMIT NO:

TITLE: MECHANICAL HOOD DRAWINGS

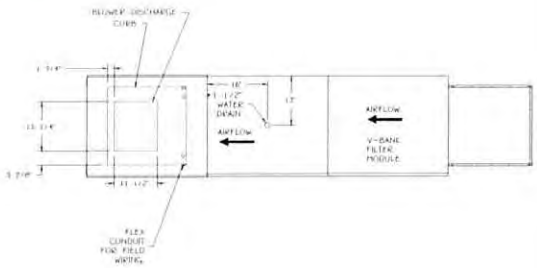
SHEET #

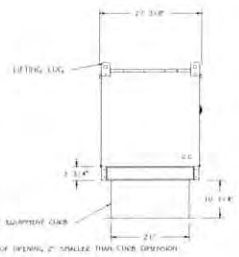
M3.2

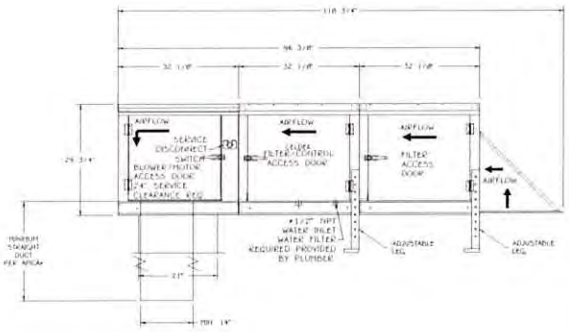
NO OF

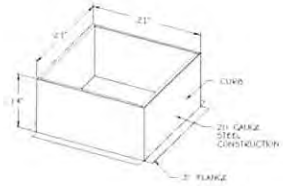
FAN #3 A1-182 - SUPPLY FAN (PSA)
1. UNFEMPERED SUPPLY UNIT WITH 16" DIRECT DRIVE FAN IN SIZE #1 HOUSING.
2. EVAP COOLER (CELDEK) & V-BANK WITH 2" 14-13 FILTERS - OUTDOOR
3. DOWN DISCHARGE - AIR FLOW RIGHT --> LEFT
4. DOWN DISCHARGE CONSTRUCTION FOR SIZE 1 UNTEMPERED DIRECT DRIVE AHRS
5. 120V WIRING CONNECTION TO ENERGIZE EVAPORATIVE COOLERS FROM UNTEMPERED SUPPLY FANS.
6. ECM WIRING PACKAGE MODBUS CONTROL FOR SUPPLY EC SINGLE PHASE ZIEHL FANS. - MSC CONTROLLER
7. HINGED DOUBLE WALL INSULATED DOOR ASSEMBLY (MARINE/BLOWER/EVAP SECTION)
8. 2 YEAR PARTS WARRANTY

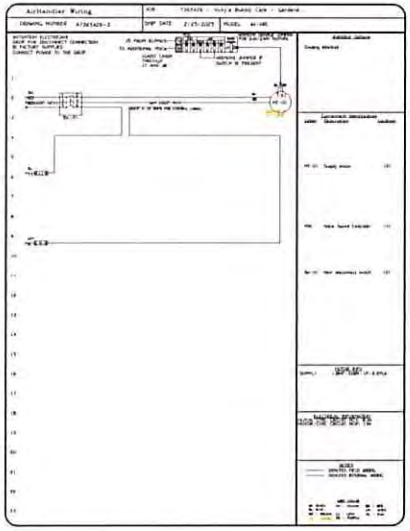
NOTE: SUPPLY DUCT MUST BE INSTALLED TO MEET SMACNA STANDARDS. A MINIMUM STRAIGHT DUCT LENGTH MUST BE MAINTAINED DOWNSTREAM OF UNIT DISCHARGE AS OUTLINED IN APCA PUBLICATION 201. WHEN USING RECTANGULAR DUCTWORK, ELBOWS MUST BE RADIUS THROAT, RADIUS BACK WITH TURNING VANES. FLEXIBLE DUCTWORK AND SQUARE THROAT/SQUARE BACK ELBOWS SHOULD NOT BE USED. ANY TRANSITION AND/OR TURNS IN THE DUCTWORK WILL CAUSE SYSTEM EFFECT. SYSTEM EFFECT WILL DRASTICALLY INCREASE STATIC PRESSURE AND REDUCE AIRFLOW. DO NOT RELY ON UNIT TO SUPPORT DUCT IN ANY WAY. FAILURE TO PROPERLY SIZE DUCTWORK MAY CAUSE SYSTEM EFFECTS AND REDUCE PERFORMANCE OF THE EQUIPMENT.
SUGGESTED STRAIGHT DUCT SIZE IS 14" x 14"

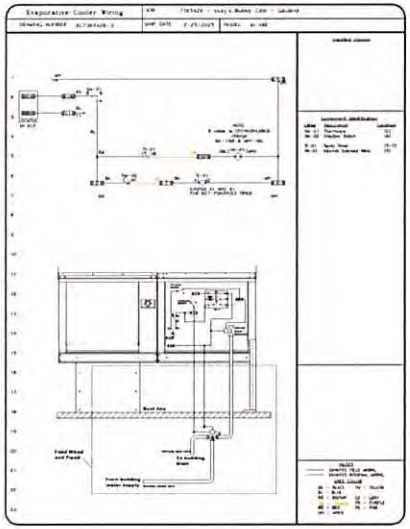












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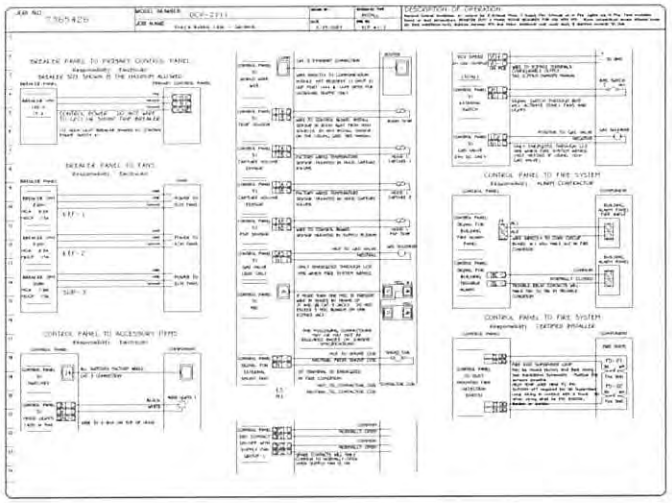
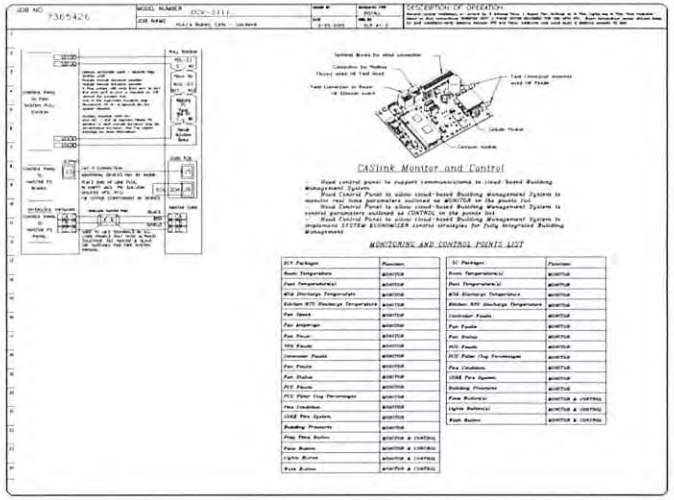




CASLink Monitor and Control

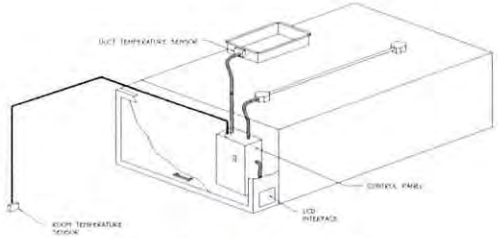
Hood control panel to support communications to cloud-based Building Management System.
Hood Control Panel to allow cloud-based Building Management System to monitor real time parameters outlined as MONITOR on the points list.
Hood Control Panel to allow cloud-based Building Management System to control parameters outlined as CONTROL on the points list.
Hood Control Panel to allow cloud-based Building Management System to implement SYSTEM ENGINEERS control strategies for fully integrated Building Management.

MONITORING AND CONTROL POINTS LIST

RTU Package	Function	AC Package	Function
Room Temperature	MONITOR	Room Temperature(s)	MONITOR
Fan Temperature(s)	MONITOR	Fan Temperature(s)	MONITOR
RTU Discharge Temperature	MONITOR	RTU Discharge Temperature	MONITOR
Kitchen RTU Discharge Temperature	MONITOR	Kitchen RTU Discharge Temperature	MONITOR
Fan Speed	MONITOR	Condenser Faults	MONITOR
Fan Amperage	MONITOR	Fan Faults	MONITOR
Fan Power	MONITOR	Fan Status	MONITOR
VFD Faults	MONITOR	VFD Faults	MONITOR
Condenser Faults	MONITOR	VFD Filter Clog Percentage	MONITOR
Fan Faults	MONITOR	Fan Conditions	MONITOR
Fan Status	MONITOR	CO2 Fire System	MONITOR
VFD Faults	MONITOR	Building Pressure	MONITOR
VFD Filter Clog Percentages	MONITOR	Fans Bypassed	MONITOR & CONTROL
Fan Conditions	MONITOR	Lights Bypassed	MONITOR & CONTROL
CO2 Fire System	MONITOR	Fault Bypass	MONITOR & CONTROL
Building Pressure	MONITOR		
Fans Time Bypass	MONITOR & CONTROL		
Fans Bypass	MONITOR & CONTROL		
Lights Bypass	MONITOR & CONTROL		
Fault Bypass	MONITOR & CONTROL		

Demand Control Ventilation Hood Control Panel Specifications.

- Controls shall be listed by ETL (UL 508A) and shall comply with demand ventilation system turndown requirements outlined in IECC 403.2.6 (2019).
- The control enclosure shall be NEMA 1 rated and listed for installation inside of the exhaust hood utility cabinet. The control enclosure may be constructed of stainless steel or painted steel.
- Temperature probe(s) located in the exhaust duct material shall be constructed of stainless steel.
- A digital controller shall be provided to activate the hood exhaust fans dynamically based on a fixed differential between the ambient and duct temperatures sensors. This function shall meet the requirements of IMC 507.1.1.
- A digital controller shall provide adjustable hysteresis settings to prevent cycling of the fans after the cooking appliances have been turned off and/or the heat in the exhaust system is reduced.
- A digital controller shall provide an adjustable minimum fan run-time setting to prevent fan cycling.
- Variable Frequency Drives (VFDs) shall be provided for fans as required. The digital controller shall modulate the VFDs between a minimum setpoint and a maximum setpoint on demand. The duct temperature sensor input(s) to the digital controller shall be used to calculate the speed reference signal.
- The VFD speed range of operation shall be from 0% to 100% for the system, with the actual minimum speed set its required to meet minimum ventilation requirements.
- An internal algorithm in the digital controller shall modulate supply fan VFD speed proportional to all exhaust fans that are located in the same fan group as the supply fan.
- The system shall operate in PREP MODE during light cooking load or COOL DOWN MODE when sufficient heat remains underneath the hood system after cooking operations have completed. Operation during either of these periods will disable the supply fans and provide an exhaust fan speed that is equal to the minimum ventilation requirement.
- A digital controller shall disable the supply fan(s), activate the exhaust fan(s), activate the appliance shunt trip, and disable an electric gas valve automatically when fire condition is detected on a covered hood.
- A digital controller shall allow for external BMS fan control via Dry Contact (external) control shall not override fan operation logic as required by code).
- An LCD interface shall be provided with the following features:
  - a. On/Off push button fan & light switch activation.
  - b. Integrated gas valve reset for electronic gas valves (no reset relay required).
  - c. VFD Fault display with audible & visual alarm notification.
  - d. Duct temperature sensor failure detection with audible & visual alarm notification.
  - e. Hard-wired duct temperature sensor detection with audible & visual alarm notification.
  - f. A single low voltage Cat-5 RJ45 wiring connection.
  - g. An energy savings indicator that utilizes measured kwh from the VFDs.



TYPICAL HOOD CONTROL PANEL INSTALLATION

Sequence of Operations.

The hood control panel is capable of operating in one or more of the following states at any given time:

- Automatic. The system operates based on the differential between room temperature and the temperature of the hood cavity or exhaust duct collar. Fans activate at a configurable temperature differential threshold. Depending on the job configuration each fan zone can be configured as static or dynamic. These terms refer to whether a variable motor (such as EC Motors or VFD driven motors) modulate with temperature. If the panel is equipped with variable speed fans and the zone is defined as "dynamic", these will modulate within a user-defined range based on the temperature differential. Panels equipped with variable speed fans and a fan zone defined as "static", fans will run at a set speed calculated for the drive. Demand control ventilation systems are capable of modulating exhaust and make up air fan speeds per the requirements outlined in IECC 403.2.6.
- Manual. The system operates based on human input from an HMI.
- Schedule. A weekly schedule can be set to run fans for a specified period throughout the day. There are three occupied times per day to allow for the user to set up a time that is suitable to their needs. Any time that is within the defined occupied time, the system will run at modulation mode and follow the fan procedure algorithm based on temperature during this time. During unoccupied time, the system will have an extra offset to prevent unintended activation of the system during a time where the system is not being occupied.
- Other. The system operates based on the input from an external source (DDC, BMS or hard-wired interlock).

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M3.4

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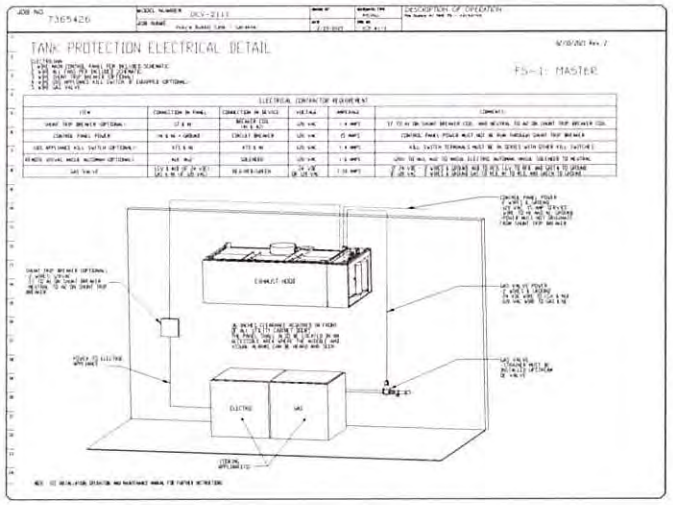
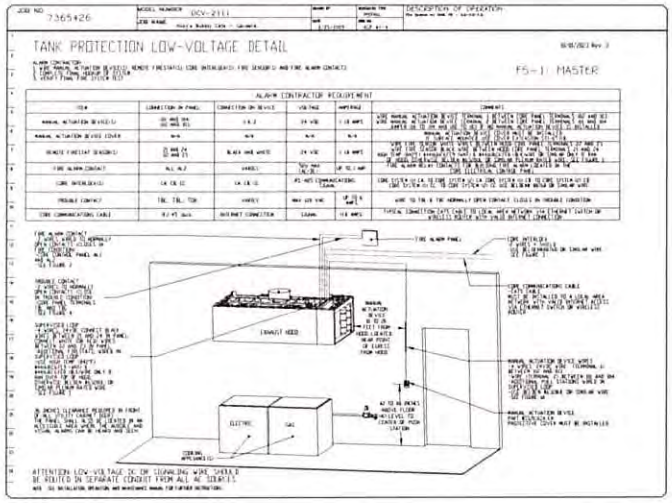
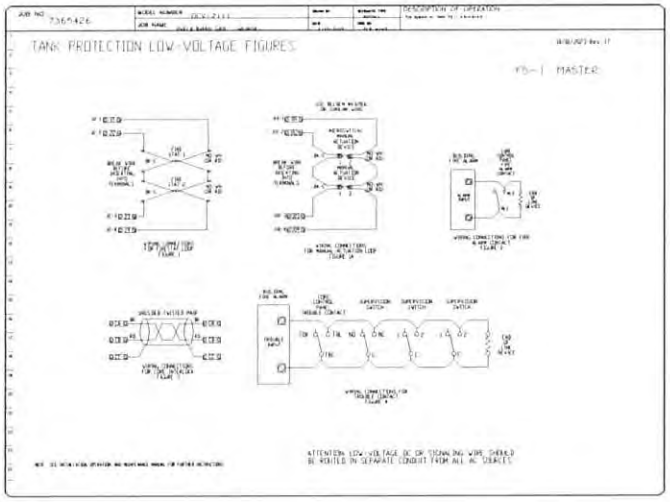
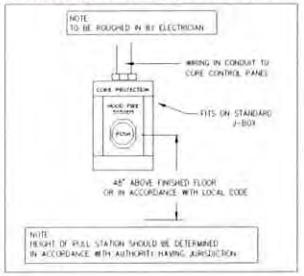






CORE/TANK MANUAL ACTIVATION DETAIL



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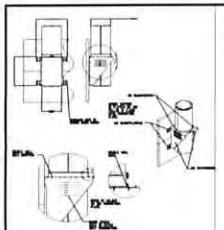
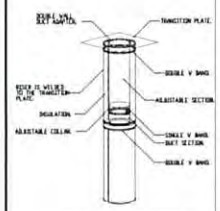
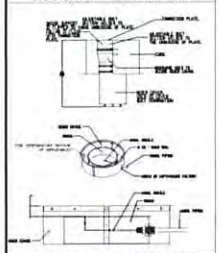


VERTICAL SUPPORT MAXIMUM SPACING (FT)	
DUCT DIAMETER	MAXIMUM SPACING (FT)

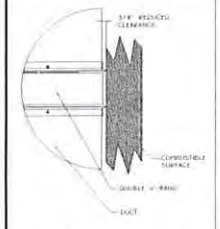
DUCT SUPPORT ASSEMBLY



TRANSITION PLATE DETAIL



OUTER DUCT BAND DETAIL



REDUCED CLEARANCE DETAIL

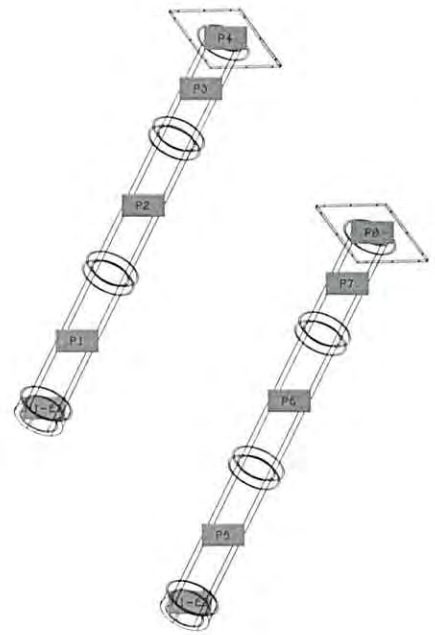
1. DUCT RUN TO BE FULLY WELDED, PARTS SUBJECT TO CHANGE
2. DUCT RUN TO HAVE CLEANOUTS EVERY 10' AND EVERY CHANGE OF DIRECTION UNLESS SPECIFIED OTHERWISE
3. VERTICAL HANGING SUPPORTS TO BE PER SUPPORT DETAIL TABLE TO RIGHT. HORIZONTAL HANGING SUPPORTS TO BE PER SUPPORT DETAIL TABLE TO RIGHT
4. ADJUSTABLE DUCT OVERLAP TO BE NO LESS THAN 6" UNLESS SMALLER DIAMETER IS 8" (4" OVERLAP) OR 10" (5" OVERLAP)
5. 3/4" CLEARANCE TO COMBUSTIBLES IS FROM OUTER SHELL. V-BAND IS LISTED TO BE AGAINST SURFACE

DUCTWORK NOTES

DUCTWORK #1 PARTS – JOB#7365426 DOUBLE WALL

TAG	PART #	CFM	QPM	ZONE	COVEREDBY	SP	WEIGHT	VELOCITY	QTY	DESCRIPTION
H1-E1	DW140WRISER-2R-5	1175				-0.946	6.45	0.00	1	DOUBLE WALL RISER COVER - USED ON 10" INNER RISER, 4" LONG - 2 LAYERS REDUCED CLEARANCE - 14" STAINLESS STEEL OUTER RISER SHELL ASSEMBLY. INCLUDES INSULATION & SINGLE V CLAMPS FOR INNER & OUTER CONNECTIONS
H1-E2	DW140WRISER-2R-5	1175				-0.946	6.45	0.00	1	DOUBLE WALL RISER COVER - USED ON 10" INNER RISER, 4" LONG - 2 LAYERS REDUCED CLEARANCE - 14" STAINLESS STEEL OUTER RISER SHELL ASSEMBLY. INCLUDES INSULATION & SINGLE V CLAMPS FOR INNER & OUTER CONNECTIONS
P1	DW10470WLT-2R-5	1175				-0.0454	47.26	2154.32	1	DOUBLE WALL DUCT - 10" INNER DUCT, 47" LONG - 2 LAYERS REDUCED CLEARANCE - 14" STAINLESS STEEL OUTER SHELL
SYSTEM AT P1						-1.0366	0.00			
P2	DW10470WADJ-2R-5	1175				-0.0454	72.54	2154.32	1	DOUBLE WALL ADJUSTABLE DUCT - 10" INNER DUCT - 2 LAYERS REDUCED CLEARANCE - 14" STAINLESS STEEL OUTER SHELL. MIN LENGTH = 11" / MAX LENGTH = 49.5" / ADJUSTMENT = 31.5" / ADJUSTABLE SECTION MAY NEED TO BE CUT. INCLUDES SINGLE AND DOUBLE WALL "V" CLAMPS.
SYSTEM AT P2						-1.0366	0.00			
P3 ASSEMBLED W/P4	DW10350WLTTP-2R-5	1175				-0.0336	36.51	2154.32	1	DOUBLE WALL DUCT - 10" INNER DUCT, 35" LONG - 2 LAYERS REDUCED CLEARANCE - 14" STAINLESS STEEL OUTER SHELL - USED WITH TRANSITION PLATE
SYSTEM AT P3						-1.0706	0.00			
P4 ASSEMBLED W/P3 O+B	DW2310TPDBEA	1175					0.00	2154.32	1	DUCT TO CURB TRANSITION 3/4" DOWN TURN, 23" CURB TO 10" DUCT, 16 GA ALUMINIZED - FOR USE WITH EXHAUST FANS
P5	DW10470WLT-2R-5	1175				-0.0454	47.26	2154.32	1	DOUBLE WALL DUCT - 10" INNER DUCT, 47" LONG - 2 LAYERS REDUCED CLEARANCE - 14" STAINLESS STEEL OUTER SHELL
SYSTEM AT P5						-1.0366	0.00			
P6	DW10470WADJ-2R-5	1175				-0.0454	72.54	2154.32	1	DOUBLE WALL ADJUSTABLE DUCT - 10" INNER DUCT - 2 LAYERS REDUCED CLEARANCE - 14" STAINLESS STEEL OUTER SHELL. MIN LENGTH = 11" / MAX LENGTH = 49.5" / ADJUSTMENT = 31.5" / ADJUSTABLE SECTION MAY NEED TO BE CUT. INCLUDES SINGLE AND DOUBLE WALL "V" CLAMPS.
SYSTEM AT P6						-1.0366	0.00			
P7 ASSEMBLED W/P8	DW10350WLTTP-2R-5	1175				-0.0336	36.51	2154.32	1	DOUBLE WALL DUCT - 10" INNER DUCT, 35" LONG - 2 LAYERS REDUCED CLEARANCE - 14" STAINLESS STEEL OUTER SHELL - USED WITH TRANSITION PLATE
SYSTEM AT P7						-1.0706	0.00			
P8 ASSEMBLED W/P7 O+B	DW2310TPDBEA	1175					0.00	2154.32	1	DUCT TO CURB TRANSITION 3/4" DOWN TURN, 23" CURB TO 10" DUCT, 16 GA ALUMINIZED - FOR USE WITH EXHAUST FANS
RC1	DW140WRISER-2R-5						6.45		1	DOUBLE WALL RISER COVER - USED ON 10" INNER RISER, 4" LONG - 2 LAYERS REDUCED CLEARANCE - 14" STAINLESS STEEL OUTER RISER SHELL ASSEMBLY. INCLUDES INSULATION & SINGLE V CLAMPS FOR INNER & OUTER CONNECTIONS
RC2	DW140WRISER-2R-5						6.45		1	DOUBLE WALL RISER COVER - USED ON 10" INNER RISER, 4" LONG - 2 LAYERS REDUCED CLEARANCE - 14" STAINLESS STEEL OUTER RISER SHELL ASSEMBLY. INCLUDES INSULATION & SINGLE V CLAMPS FOR INNER & OUTER CONNECTIONS
	3M-2000PLUS						0.80		1	DUCT - 3M FIRE BARRIER 2000 PLUS SILICONE - USED AS SEALANT TO SEAL DUCT JOINTS
TOTAL WEIGHT							355.22			

DUCTWORK #1 SE VIEW



PRELIMINARY

Furnish double wall, factory built grease duct for use with Type I kitchen hoods, which conforms to the requirements of NFPA-96. Products shall be ETL listed to UL-1978 and UL-2221 for venting air and grease vapors from commercial cooking operation. Models DW-2R, 3R and 3Z are used for grease duct applications when installed in accordance with these instructions and National Fire Protection Association "NFPA 96", Standard for Ventilation Control and Fire Protection of Commercial Cooking Operations. Double wall grease ducts are listed for a continuous internal temperature of 500 degrees F and intermittent temperatures of 2000 degrees F.

The duct sections shall be constructed of an inner duct wall and an outer wall with insulation in between. The inner duct wall shall be constructed of .036 inch thick, 430 type stainless steel and be available in diameters 8" through 24". The outer wall shall be constructed of stainless steel at a minimum of .024 inch thickness. The duct, based on model number, shall include layers of Super Wool 607 Plus insulation between the inner and outer wall. Grease duct joints shall be held together by means of formed V clamps and sealed with 3M Fire Barrier 2000+. The duct wall assembly shall be tested and listed at 3/4" or zero inch clearance, according to classifications.

Classifications and Clearances

UL 2221: Standard for Fire Resistive Grease Duct Enclosure Assemblies. Chapter 7 of this standard references a test labeled Internal Fire Test. Section 7.1.1 references two installation conditions, Condition A and Condition B. Condition A represents all installation condition except for installation within non-ventilated combustible enclosures. Condition B represents installation within a non-ventilated combustible enclosure.

Model DW-3Z is classified under UL2221 (Test of Fire Resistive Duct Enclosure Assemblies) as an alternate to 2-Hr. fire resistive shaft enclosures with a minimum zero clearance to combustibles (sizes 8" to 24" diameter). Model 3Z is listed in accordance with the requirements for duct enclosure Condition A and B.

Model DW-3R is classified under UL2221 (Test of Fire Resistive Duct Enclosure Assemblies) as an alternate to 2-Hr. fire resistive shaft enclosures with a reduced clearance to combustibles (sizes 8" to 24" diameter). Model 3R is listed in accordance with the requirements for duct enclosure Condition B.

Model DW-2R is classified under UL2221 (Test of Fire Resistive Duct Enclosure Assemblies) as an alternate to 2-Hr. fire resistive shaft enclosures with a reduced clearance to combustibles (sizes 8" to 16" diameter). Model 2R is listed in accordance with the requirements for duct enclosure Condition B.

DESIGNED AND APPROVED BY CATIVE AIRE

DARRYL MURRAY INC.
MECHANICAL ● FIRE HOOD ● PLUMBING
1359 N. 3775 W. Cedar City, UT 84721
Tel: 818.355.6225 Fax: 801.271.5655
darryl@darrylmurrayinc.com

STAMP

REGISTERED PROFESSIONAL ENGINEER SAM GHATTAS No. M 21305 Exp. 06-30-25 CIVIL ENGINEER

DATE SIGNED 03/11/25

OWNER / TENANT

PROJECT TITLE

VICKY'S BUBBLY CAFE

PROJECT ADDRESS

14782 Crenshaw Blvd.
Gardena, CA 90249

REVISIONS

NO	DATE	DESCRIPTION

DRAWN BY: DARRYL MURRAY

CHECKED BY RG/ML

PRINTED ON 03/11/2025

PERMIT NO:

TITLE

MECHANICAL HOOD DRAWINGS

SHEET #

M3.6

NO OF

DOUBLE WALL FACTORY BUILT DUCTWORK

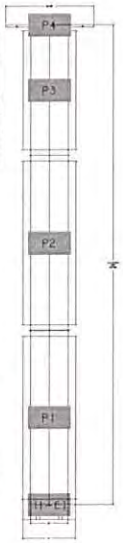
- ALL DUCTWORK IS REQUIRED TO BE INSTALLED WITH THE MAXIMUM SUPPORT SPACING LISTED BELOW.
- FOR A COMPLETE LIST OF APPROVED SUPPORT METHODS, SEE THE ENTIRE INSTALLATION AND OPERATION MANUAL.
- DUCTWORK SHALL SLOPE NOT LESS THAN 1/16" PER LINEAR FOOT TOWARDS THE HOOD OR AN APPROVED GREASE COLLECTION RESERVOIR.
- WHERE HORIZONTAL DUCTS EXCEED 75 FEET IN LENGTH, THE SLOPE SHALL NOT BE LESS THAN 3/16" PER LINEAR FOOT.

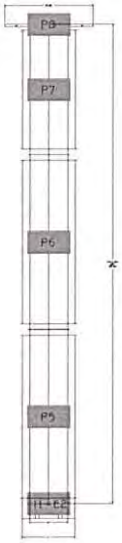
HORIZONTAL	
DUCT DIAMETER	SUPPORT SPACING (FT)
5"	7'
6"	7'
7"	7'
8"	7'
10"	7'
12"	7'
14"	7'
16"	7'
18"	5'
20"	5'
22"	5'
24"	5'
26"	5'
28"	5'
30"	5'
32"	5'
34"	5'
36"	5'

VERTICAL			
TYPE	WALL SUPPORT (FT)	CURB SUPPORT (FT)	FLOOR SUPPORT (FT)
20 & 24 HT (5'-16')	20	24	24
24 (10')	16	24	24
30 & 32 (5'-24')	10	24	24
32 (26' - 36')	10	20	20

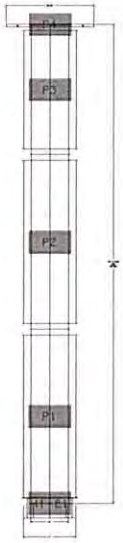
DO NOT LEAK TEST USING SMOKE BOMBS CONTAINING CHLORINES/CHLORIDES. CONSULT WITH CAPTIVEAIRE FOR PROPER LEAK TESTING METHODS.

DUCTWORK #1 FRONT VIEW





DUCTWORK #1 SIDE VIEW



DUCTWORK #1 TOP VIEW

PRELIMINARY

DESIGNED AND APPROVED BY CATIVE AIRE

DARRYL MURRAY INC.
MECHANICAL ENGINEERING & DESIGN
MECHANICAL ● ELECTRICAL ● PLUMBING
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STAMP

REGISTERED PROFESSIONAL ENGINEER RAY GHATTAS No. M 21305 Exp. 06-30-25 MECHANICAL CALIFORNIA

DATE SIGNED 03/11/25

OWNER / TENANT

PROJECT TITLE

VICKY'S BUBBLY CAFE

PROJECT ADDRESS

14782 Crenshaw Blvd.
Gardena, CA 90249

REVISIONS

NO	DATE	DESCRIPTION

DRAWN BY: DARRYL MURRAY

CHECKED BY: RG/ML

PRINTED ON: 03/11/2025

PERMIT NO.

TITLE

MECHANICAL HOOD DRAWINGS

SHEET #

M3.7

NO OF

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — MECC-MCH-1

This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4 or 141.0(b)2 for alterations.

Project Name:	Vicky's Cafe	Report Page:	(Page 1 of 8)
Project Address:	14782 Crenshaw Blvd	Date Prepared:	3/11/2025

A. GENERAL INFORMATION

01	Project Location (city)	Gardena	04	Total Conditioned Floor Area	1052
02	Climate Zone	7	05	Total Unconditioned Floor Area	0
03	Occupancy Types Within Project:		06	# of Stories (Habitable Above Grade)	1

♦ Office ♦ Support Areas ♦ All Other Occupancies

B. PROJECT SCOPE

This table includes mechanical systems or components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, 170.2(b) or 141.0(b)2 and 180.2(b)3 for alterations.

01 Air System(s)	02 Wet System Components	03 Dry System Components
☐ Heating Air System	☐ Water Economizer	☐ Air Economizer
☐ Cooling Air System	☐ Pumps	☐ Electric Resistance Heat
Mechanical Controls	☐ System Piping	☐ Fan Systems
☒ Mechanical Controls (existing to remain, altered or new)	☐ Cooling Towers	☒ Ductwork (existing to remain, altered or new)
	☐ Chillers	☒ Ventilation
	☒ Boilers	☐ Zonal Systems/ Terminal Boxes

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CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
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STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — MECC-MCH-1

Project Name:	Vicky's Cafe	Report Page:	(Page 2 of 8)
		Date Prepared:	3/11/2025

C. COMPLIANCE RESULTS

Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D., or the table indicated as not compliant for guidance.

01		02		03		04		05		06		07		08		09
System Summary 110.1, 110.2, 140.4, 170.2(b)	AND	Pumps 140.4(c), 170.2(c)4	AND	Fans/ Economizers 140.4(c), 140.4(e), 170.2(c)	AND	System Controls 110.2, 110.3, 140.4(f), 170.2(c)	AND	Ventilation 121.1, 160.2	AND	Terminal Box Controls 140.4(d), 170.2(c)4B	AND	Distribution 120.3, 140.4(l), 160.2, 160.3	AND	Cooling Towers 110.2(d)		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)		
Yes	AND		AND		AND	Yes	AND	Yes	AND		AND	Yes	AND			COMPLIES
Mandatory Measures Compliance (See Table Q for Details)																COMPLIES

D. EXCEPTIONAL CONDITIONS

This table is auto filled with exceptional conditions. Existence of exceptions must or data entered in below throughout the form.

E. ADDITIONAL REMARKS

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

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Boiler Efficiency and Controls

Boiler System Servicing										1052	
01	02	03	04	05	06	07	08	09			10
Boiler Name or Item Tag	Equipment Type[1]	Qty	Rated Input Capacity (Btu/h)[2]	Rated Efficiency	Minimum Efficiency Required per 110.2	Efficiency Unit	Boiler Controls per 140.4(b), 170.2(c)4				High Capacity Boiler Exceptions
							Isolation Valve	Temperature Reset			

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STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — MECC-MCH-1

Project Name:	Vicky's Cafe	Report Page:	(Page 3 of 8)
		Date Prepared:	3/11/2025

G. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Boiler Efficiency and Controls

Boiler Hydro	Hot Water, Gas-Fired	2	199,000	0.75	0.81	AFUE	Yes	NA: <300,000 Btu/h.	No Exceptions Apply
System Efficiency			0.79	Minimum System Efficiency for High Capacity Boilers per 140.4(b)3A				

[1]CONTROLS: Use NRCC-PLB to document compliance with Boiler Controls per 140.4(b)
[2]Minimum capacity indicated and maximum storage as provided for and allowed by the unit's controls
[3] Includes certified tankless

H. PUMPS

This section does not apply to this project.

I. FAN SYSTEMS & AIR ECONOMIZERS

This section does not apply to this project.

J. SYSTEM CONTROLS

This table is used to demonstrate compliance with mandatory controls in 120.2 and 120.3 and prescriptive controls in 140.4(f) and (n), 170.2(c)4D, 170.2(c)4E, or requirements in 141.0(b)2E, 180.2(b)3 for altered space conditioning systems.

01	02	03	04	05	06	07	08	09
System Name	System Zoning	Conditioned Floor Area Being Served (ft²)	Thermostats 110.2(b) & (c)7, 120.3(a) 140.3(a)1A or 141.0(b)2E & 180.2(b)1	Shut Off Controls 120.2(b) & 140.9(a)1D	Isolation Zone Controls 120.2(g) & 140.9(a)2F	Demand Response 110.12 120.2(h) & 140.9(b)1	Supply Air Temp. Reset 140.4(f) & 170.2(c)4D	Window inoperable per 140.4(n) & 170.2(c)4E

[1]CONTROLS: 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 setback thermostats.

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STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — MECC-MCH-1

Project Name:	Vicky's Cafe	Report Page:	(Page 4 of 8)
		Date Prepared:	3/11/2025

I. VENTILATION AND INDOOR AIR QUALITY

This table is used to demonstrate compliance with mandatory ventilation requirements in 120.1, 120.2(c)1B 141.0(a) and 141.0(g) for all nonresidential and hotel/motel and 4.4.4 of ASHRAE/ASHRAE 62.2, 160.2(c)1D, 170.2(a)4H, 170.2(c)4G2 for high-rise residential 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 ventilation rates and airflows may be shown on the plans or the calculations can be provided 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 evaluates Nonresidential, Hotel/Motel Spaces or Multifamily Common Use Spaces.
03	☐	Check the box if the project is using natural ventilation in any nonresidential or hotel/motel spaces to meet required ventilation rates per 120.1(c).

Nonresidential and Hotel/ Motel Multifamily Common Use Ventilation Systems

04		05		06			07	08
System Name	Carrier Rooftop - 5 Ton	System Design OA CFM3 Airflow[4]	2708	System Design Transfer Air CFM		0		Air Filtration per 120.1(c)1 141.0(b)3 and 160.2(c)1F[1] Provided
09	09	10	11	12	13	14	15	16
Mechanical Ventilation Required per 120.1(c)3[5] & 160.2(c)3						Exh. Vent per 120.1(c)4 & 160.2(c)4		DCV or Sensor Controls per 120.1(c)5, 120.1(d)5, and 120.1(m)3[6] 160.2(c)3D 160.2(c)5B 160.2(c)9D
Space Name or Item Tag	Occupancy Type[7]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people[8]	Required Min OA CFM	Provided per Design CFM		
Pizza Lobby	Cafeteria/ fastfood dining	628			264	0	0	DCV: NA: Not required per §120.1(c)3
								Occ Sensor: NA: Not required space type
Kitchen	Kitchen (cooking)	247			37	172.8	2464	DCV: NA: Not required per §120.1(c)3
								Occ Sensor: NA: Not required space type

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STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — MECC-MCH-1

Project Name:	Vicky's Cafe	Report Page:	(Page 5 of 8)
		Date Prepared:	3/11/2025

L. VENTILATION AND INDOOR AIR QUALITY

Storage & Restroom	Corridor	213			35	0	0	DCV	NA: Not required per §120.1(c)3
								Occ Sensor	NA: Not required space type
Office	Office space	44			6.6	0	0	DCV	NA: Not required per §120.1(c)3
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				343	18	Ventilation for this System Complies?		Yes

[1] CONTROLS: Systems CFM should include both mechanical and natural ventilation for the same system
[2] Air Filtration requirements apply to the following three system types per 170.1(c)6A: space conditioning systems utilizing ducts to supply air to occupiable spaces; supply-only ventilation systems providing outside air to occupiable spaces; supply side of balanced ventilation systems including heat recovery and energy recovery ventilation systems providing outside air to occupiable spaces
[3] Uniform Mechanical Code may have more stringent ventilation requirements; the more stringent code requirement takes precedence
[4] See Standards Table 120.1-A and 120.1-B.
[5] For heater beds with fixed seating, the expected number of occupants shall be determined in accordance with the California Building Code.
[6] §120.1(c)3 requires systems serving rooms that are required by §120.1(c) to have lighting occupancy sensing controls to also have occupancy sensing zone controls for ventilation. Exception of spaces which require lighting occupancy sensors include spaces ≤250ft² or smaller, multipurpose rooms less than 1,000 ft², classrooms, conference rooms, restrooms, aisles and open areas in warehouses, library book stacks, corridors, stairwells, parking garages, and loading and unloading zones, unless excepted by §100.1(c).

K. TERMINAL BOX CONTROLS

This section does not apply to this project.

L. DISTRIBUTION (DUCTWORK and PIPING)

This table is used to show compliance with mandatory pipe insulation requirements found in 120.3 and mandatory requirements found in 150.0(j) for duct sealing.

01	☐	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. Insulation covering chilled water piping and refrigerant suction piping located outside the conditioned space shall have a Class I or Class II vapor retarder. All penetrations and joints of which shall be sealed.

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Compliance ID: EnergyPro-7916-0525-1974 Report Generated: 2025-03-11 20:45:07

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — MECC-MCH-1

Project Name:	Vicky's Cafe	Report Page:	(Page 6 of 8)
		Date Prepared:	3/11/2025

M. DISTRIBUTION (DUCTWORK and PIPING)

Duct Leakage Testing

The answers to the questions below apply to the following duct systems:		Carrier Rooftop - 5 Ton	NA/ Common Use: Duct leakage testing shall not exceed 6% per NA7.5.3 required for these systems?	No
			Dwelling Units: Total duct leakage of duct system shall not exceed 12% or duct system to outside shall not exceed 6% per RA3.1.4 required for these systems?	No
			Duct leakage testing per CMC Section 602.12.1 required for these systems?	No
L1	No	The scope of the project includes only duct systems serving healthcare facilities.		
L2	No	Duct system provides conditioned air to an occupiable space in a constant volume, single zone, space conditioning system.		
L3	Yes	The space conditioning system serves less than 1,000 ft² of conditioned floor area.		
L4	No	The combined surface area of the ducts is more than 25% of the total surface area of the entire duct system.		
L5		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.		
L6	No	The scope of the project includes an existing duct system that is documented to have been previously tested as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.		
L7		All Ductwork and plenums with pressure class ratings shall be constructed to Seal Class A		
L8		All ductwork is an extension of an existing duct system		
L9		Ductwork serving individual dwelling unit		
L10		< 25 ft of new or replacement space conditioning ducts installed		
L11	N/A	Duct insulation R-value		
L12				
L13				

N. COOLING TOWERS

This section does not apply to this project

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STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — MECC-MCH-1

Project Name:	Vicky's Cafe	Report Page:	(Page 7 of 8)
Project Address:	14782 Crenshaw Blvd	Date Prepared:	3/11/2025

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 https://www.energy.ca.gov/title24/2022standards/2019_compliance_documents/Nonresidential_Documents/MECH/

Form/Title
NRCI-MCH-01-E - Must be submitted for all buildings

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

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 https://www.energy.ca.gov/title24/2022standards/2019_compliance_documents/Nonresidential_Documents/MECH/

Form/Title	Systems/Spaces To Be Field Verified
NRCA-MCH-08-A Duct Leakage Test	Zonal Fan(s)

P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

There are no NRCV forms required for this project.

Q. MANDATORY MEASURES DOCUMENTATION LOCATION

This table is used to indicate where mandatory measures are documented in the plan set or construction documentation.

01		02
Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Block	Yes	Plan Sheet or construction document location: M Sheets

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Mechanical Systems
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CERTIFICATE OF COMPLIANCE — MECC-MCH-1

Project Name:	Vicky's Cafe	Report Page:	(Page 8 of 8)
Project Address:	14782 Crenshaw Blvd	Date Prepared:	3/11/2025

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Darryl Murray	Documentation Author Signature:
Company: Darryl Murray Inc.	Signature Date:
Address: 1355 N. 3775 W	CEA/HERS Certification Identification (if applicable):
City/State/Zip: Cedar City UT 84721	Phone: 818-355-0225

RESPONSIBLE PERSON'S DECLARATION STATEMENT

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

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. 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.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued by the enforcement agency for all applicable inspections. I understand that a completed signed copy of the Certificate of Compliance is required to be included with the documentation of building construction or system alteration to the enforcement agency.

Responsible Designer Name: Ray Ghattas	Responsible Designer Signature:
Company: Darryl Murray Inc	Date Signed: 2025-03-11
Address: 1355 N. 3775 W.	License: M21528
City/State/Zip: Cedar City UT 84721	Phone: 818.355.0225

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DARRYL MURRAY INC
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Tel. 818.355.0225 Fax. 866.279.1655
darryl@energy-engineer.com

STAMP

REGISTERED PROFESSIONAL ENGINEER — RAY GHATTAS — No. M 21528 — Exp. 06-30-25 — MECHANICAL — STATE OF CALIFORNIA

DATE SIGNED 03/11/25

OWNER / TENANT

PROJECT TITLE: VICKY'S BUBBLY CAFE

PROJECT ADDRESS: 14782 Crenshaw Blvd. Gardena, CA 90249

REVISIONS

NO	DATE	DESCRIPTION

DRAWN BY: DARRYL MURRAY
CHECKED BY: RG/ML
PRINTED ON: 03/11/2025
PERMIT NO:

TITLE: MECHANICAL TITLE 24 ENERGY COMPLIANCE FORMS

SHEET #: M4.0

NO. OF

1. THE COMPLETE ELECTRICAL INSTALLATION SHALL BE IN ACCORDANCE WITH THE 2016 CEC BASED ON 2015 EDITION OF THE NATIONAL ELECTRICAL CODE, THE LATEST RULES AND REGULATIONS OF THE SAFETY ORDERS ENFORCED BY THE CALIFORNIA INDUSTRIAL SAFETY, THE NATIONAL BOARD OF FIRE UNDERWRITERS AND ALL APPLICABLE STATE AND LOCAL CODES ENFORCED BY THE AUTHORITIES HAVING JURISDICTION.
2. THE CONTRACTOR PRIOR TO BIDDING, SHALL VISIT THE JOB SITE TO BECOME ACQUAINTED WITH THE EXISTING INSTALLATION AND SYSTEM RELATED TO THIS WORK AND SHALL INCLUDE IN THE BID REASONABLE ALLOWANCE AND MATERIALS PROPERLY FOR THE ELECTRICAL INSTALLATION TO BE COMPLETE AND OPERATIVE.
3. THE CONTRACTOR SHALL COORDINATE THE ARCHITECTURAL AND OTHER DRAWINGS RELATED TO THIS PROJECT THE ARCHITECTURAL WORK TO BE PROVIDED.
4. ANY POWER CONDUITS SHALL BE COORDINATED WITH THE OWNER CONSULTANTS IN THE WALL. A SPECIAL NOTICE SHALL BE PRESENTED TO THE OWNER FOR APPROVAL THE WEEK PRIOR TO CONDUIT PLACEMENT OF WORK. CONDUITS WHICH SHALL BE POSITIONED IN UNDERFLOOR PLENUMS IS NOT ACCEPTED BY THE OWNER.
5. ALL FEEDERS AND BRANCH CIRCUIT CONDUITS SHALL BE INSTALLED IN PARALLEL OR PERPENDICULAR, UNLESS OTHERWISE NOTED.
6. THE OWNER RETAINS FIRST SALVAGE RIGHTS TO ALL EXISTING EQUIPMENT REMOVED UNDER THIS CONTRACT. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE OWNER FOR DISPOSITION OF THE EXISTING EQUIPMENT TO BE REMOVED BY THE CONTRACTOR SHALL INCLUDE IN HIS BID INCIDENTAL ALL COSTS RELATED TO THE SEPARATION OF EXISTING EQUIPMENT REMOVED UNDER THIS CONTRACT.
7. DEMOLITION WORK SHALL BE PROVIDED AS REQUIRED TO ACCOMPLISH NEW WORK CALLED FOR AND AS NOTED. WORK SHALL BE PERFORMED IN A MANNER TO AVOID DAMAGE TO PERMANENT STRUCTURES AND EQUIPMENT NOT BEING REMOVED. EXISTING EQUIPMENT AND/OR ELECTRICAL WIRING WHICH IS TO REMAIN NOT HAS BEEN REMOVED TO FACILITATE THE INSTALLATION OF THE NEW EQUIPMENT SHALL BE RESTORED TO ITS ORIGINAL OPERATING CONDITION.
8. THE CONTRACTOR SHALL REMOVE ALL ELECTRICAL ITEMS IN LIGHT WALLS, CEILINGS AND FLOORS WHICH WILL BE REMOVED FOR THE RENOVATION WORK OF THIS PROJECT. DISCONNECT COMPLETELY DEBRIS FROM OF OPENING.
9. WHERE OUTLETS ARE REMOVED, ABANDON CONDUIT IN OUTLET AS ALL EXISTING CONDUCTORS SHALL BE REMOVED BACK TO THE NEAR OUTLET JUNCTION BOX OR PANEL BOARD.
10. EXISTING CONDUCTORS REMOVED FROM SERVICE SHALL NOT BE PERMITTED TO BE USED FOR NEW WORK UNDER THIS CONTRACT.
11. EXISTING CONDUIT WHICH REMAINING IN PLACE MAY BE UTILIZED FOR THE RENOVATION WORK PROVIDED THAT THE CONDUIT IS OF ADEQUATE SIZE AND TYPE FOR THE NUMBER AND SIZE OF CONDUCTORS BEING INSTALLED.
12. PLANE CONDUIT SHALL BE INSTALLED WHENEVER DEBRIS IS REMOVED AND OUTLET BOX REMAINS IN PLACE.
13. THE EXISTING ELECTRICAL ITEM REMAINING IN SERVICE WHICH HAS ITS EXISTING CIRCUIT CONDUCTOR INTERRUPTED DURING WORK PERFORMED UNDER THIS CONTRACT, SHALL NOT BE INTERRUPTED TO A SERVICE WHICH COULD BE INTERRUPTED BY THE ADDITION OF THIS ITEM.
14. WHERE EXISTING CONDUIT AND/OR CIRCUIT HAS BEEN INTERRUPTED BY REMOVAL OF AN OUTLET BOX, LIGHT FIXTURE OR THE LIKE, THE TERMINATED CONDUIT AND/OR CIRCUIT SHALL BE RETRACED, EXTENDED AND RECONNECTED AS REQUIRED TO PROVIDE CONTINUITY OF THE CIRCUIT THAT IS BEING REMOVED.
15. UNLESS OTHERWISE INDICATED THE MINIMUM SIZE OF CONDUCTORS SHALL BE #12 AWG, 600V OR THHN/THWN.
16. UNLESS OTHERWISE INDICATED THE MINIMUM SIZE OF CONDUITS SHALL BE 3/4" EMT.
17. OTHER INSULATED GROUND CONDUCTORS SHALL BE INSTALLED IN ALL FEEDER AND BRANCH CIRCUIT CONDUITS.
18. PROVIDE LABELS ON ALL EQUIPMENT AND DEVICES. LABELS SHALL BE TYPE - ADHESIVE PLASTIC TYPE WITH WHITE LETTERS ON BLACK BACKGROUND. PROVIDE LABEL ON HOME RUN DANDY CONDUIT STRUCTURE AND ALL SWITCHES AND RECEPTACLES.
19. THE CONTRACTOR SHALL REMOVE ALL CIRCUITS AND PROVIDE REVISED DIRECTORIES DIRECTORIES FOR THE ELECTRICAL PANELS INVOLVED IN THIS PROJECT. THE PANEL DIRECTORY SHALL REFLECT THE AS BUILT CIRCUITS. ONE COPY OF SCHEDULE SHALL BE POSTED TO THE BACK OF THE PANEL DOOR, AND THE COPY SHALL BE SUBMITTED TO THE ENGINEER AS AN "AS BUILT" DRAWING.
20. ELECTRICAL EQUIPMENT AND FIXTURES SHALL BE SUPPORTED AND/OR ANCHORED IN ACCORDANCE WITH UBC CHAPTER 4 SEISMIC REQUIREMENTS.
21. THE CONTRACTOR SHALL MAINTAIN AT THE JOB SITE, AN UP TO DATE "AS BUILT" DRAWING SET. THE "AS-BUILT" DRAWING SET SHALL REFLECT ALL APPROVED CHANGES TO THE ORIGINAL DRAWINGS. THE "AS-BUILT" DRAWING SET SHALL BE KEPT CLEAN AND IN GOOD CONDITION AND SHALL BE TURNED OVER TO THE OWNER AT THE COMPLETION OF THE PROJECT.
22. UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL SCHEDULE AND PERFORM A COMPLETE FUNCTIONAL TEST TO DEMONSTRATE TO THE OWNER THAT THE NEW INSTALLATION IS OPERATIVE. ALL DEFECTED ANY DEFECTS OR DEFICIENCIES IN THE MATERIALS OF WORK SHALL BE CORRECTED IMMEDIATELY AND AT THE CONTRACTOR'S EXPENSE.
23. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING ALL REQUIRED ELECTRICAL PERMITS AND INSPECTIONS.
24. THE SUBMITTAL OF A BID FOR PROPOSAL SHALL BE CONSIDERED AS CONCLUSIVE EVIDENCE THAT THE CONTRACTOR IS THOROUGHLY FAMILIAR WITH THE INTENT OF THE CONTRACT DOCUMENTS, AND THE CHANGE ORDERS WILL BE ISSUED FOR ANY ADDITIONAL LABOR OR MATERIAL REQUIRED TO RECEIVE AND INSPECTION PROPERLY INTERPRETED OR REPORTED TO THE ENGINEER AFTER THE EXECUTION OF THE CONTRACT.
25. PROVIDE 120 VOLT VAC CIRCUITS AS REQUIRED TO SERVE AUXILIARY EQUIPMENT SUCH AS HVAC, BMS, CONTROL PANELS, SERVICE OUTLETS FOR AV CONSULTANTS/VENDORS.
26. CONTRACTOR SHALL PROVIDE AIR TEST REPORTS AS PART OF THE NOTE PACKAGE TO THE OWNER.
27. CONTRACTOR SHALL PROVIDE PENETRATION FIREPROOFING TO ALL NEW AND ABANDONED PENETRATIONS USING UL LISTED TYPE FIRE PROTECTION PRODUCTS. ALL IN COMPLIANCE WITH CURRENT CBC.
28. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL BASE BOXES AND 3/4" CONDUIT SYSTEM REQUIRED BY LIFE SAFETY SYSTEM.
29. LIFE SAFETY CONTRACTOR SHALL PROVIDE A COMPLETE DESIGN AND INSTALLATION OF FIRE ALARM AND DETECTION SYSTEM. FIRE ALARM FLOOR DRAWINGS SHALL BE REVIEWED AND APPROVED BY VENTURA COUNTY FIRE MARSHALL PRIOR TO INSTALLATION. DESIGN SHALL BE BASED ON INDUSTRY STANDARD SYSTEM REQUIREMENTS AND STATE CODE AND REGULATIONS.
30. CONDUITS SHALL BE SUPPORTED AND BONDED THE SEISMIC GUIDELINES FOR SEISMIC RESTRAINTS OF MECHANICAL AND PLUMBING PIPING SYSTEMS OF THE SUPPORTS "SEISMIC RESTRAINT SYSTEM".
31. HVAC AND PLATE CONTROLS AND DEVICES REFER TO MECHANICAL PLANS AND HVAC PLANS PROVIDE ALL CONTROL CONDUIT PROVIDED FROM DIRECT PANEL IN MECHANICAL TO ALL SENSORS, SOCKETS, CONTROLLERS, LOCAL LOCK AND INTERNET PANELS. COMPLETE AS SHOWN ON MECHANICAL PLANS. INCLUDING LOW UPS POWER WIRING.
32. PRIORITY SYSTEM CONDUIT AND WIRING, REFER TO RECEIVED DRAWINGS FOR ALL CONDUIT CONDUITS, SERVICES, LOW EMERGENCY POWER AND WIRING, COMPLY WITH ALL REQUIREMENTS SHEETS.
33. ALL EXTERIOR ELECTRICAL DEVICES AND EQUIPMENT SHALL BE WEATHERPROOF TYPE NEMA "3R".
34. BRANCH CIRCUIT WIRING CHART

VOLTS	LENGTH	WIRE SIZE	MAX. WATTS	ΔV
120V	0-100 FEET	#12 AWG	1,920W	3% MAX
120V	101-125FT	#10	1,920W	3% MAX
277V	0-125 FEET	#12	3840W	2 1/2% MAX
277V	101-125FT	#10	3840W	2 1/2% MAX

NOTE: PROVIDE #10 WIRE MIN. NEUTRAL AND GROUND WIRE SIZE FOR ALL 1.0 VOLT CIRCUITS.
35. CONTRACTOR'S SEQUENCING AND PHASING PROVIDE COORDINATION OF PHASING AND IN COORDINATION WITH THE PHASING / SEQUENCING INDICATED ON THE ARCHITECTURAL PLANS AND AS REQUIRED BY THE PROJECT.
36. PADS TO BACK OUTLETS SHALL NOT BE PERMITTED IN THIS PROJECT. ALL OUTLETS MUST BE A MINIMUM OF 1/4 OUTSIDE PAT APPROVED INSTALLATION PERMANENT PLACE MOUNTED.

GENERAL NOTES

SCALE: NTS

(2) FIXTURES TYPE "A" PER LIGHTING FIXTURE SCHEDULE	
S	SWITCH FLUSH IN WALL, TOGGLE TYPE +48"
S_2	SWITCH FLUSH IN WALL, TOGGLE DOUBLE POLE +48"
S_3	SWITCH FLUSH IN WALL, THREE WAY +48" TOGGLE TYPE
	TOGGLE WITH 48" TO PAD 1 1/2" W. 1 TYP
	STANDARD DUPLEX RECEPTACLE OUTLET +15"
	GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE OUTLET +48" ALL OUTLETS AT KITCHEN COUNTERS AND BATHROOMS SHALL BE GFCI
	240V 14-20 AMP RECEPTACLE OUTLET +15"
	TELEPHONE OUTLET, 4 CABLE HOME RUN TO TELEPHONE EQUIPMENT
	DATA/COMPUTER OUTLET 4x4" CONDUIT HOME RUN TO DATA/TELE CLOSET
	FUSED DISCONNECT SWITCH
	EXHAUST FAN CEILING MOUNTED 5 AIR CHANGES MIN PER HOUR. DATAIN #2162 UC - 110 CFM - 1.5 SONES
	EXHAUST FAN CEILING, MOUNTED WITH FLUORESCENT LIGHT. 5 AIR CHANGES MIN PER HOUR. DATAIN #2112 FLUR - 110 CFM - 1.5 SONES
	JUNCTION BOX, SIZE AS PER CODE
	LIGHTING PANEL, FLUSH MOUNTED IN WALL
	SMOKE DETECTOR LISTED FOR CONV-HVAC SERVES CONNECTED. SHALL BE POWERED BY BATTERIES AND PERMANENT REAL POWER
	CABLE TELEVISION OUTLET
	3" CONDUIT RUN - 2#12 AWG + GND
	3" CONDUIT RUN - 3#12 AWG + GND
	3" CONDUIT RUN - 4#12 AWG + GND
	POWER SERVICE CONDUIT RUN +36" BELOW GRADE
— T —	TELEPHONE SERVICE CONDUIT RUN +24" BELOW GRADE
— CATV —	CABLE TV SERVICE CONDUIT RUN +24" BELOW GRADE
	CONDUIT RUN WITH NO PULL BOXES
	POINT OF CONNECTION
WE	WEEPS LOCATION
WP	WEATHER PROOF
T.C.	TIME CLOCK
FL	FLUORESCENT LIGHTS
U.C.	UNDER-CABINET LIGHTS
O.H.	OVERHEAD SPRINKLER

SYMBOLS

SCALE: NTS

A, AFF	ABOVE
AF	ABOVE FLOOR
AIC	INTERRUPTING CAPACITY RATING
AS	ABOVE SWITCH
AT	ABOVE TOP
AFF	ABOVE FINISHED FLOOR
ATS	AUTOMATIC TRANSFER SWITCH
C	CONDUIT
CAT	CATALOG
CB	CIRCUIT BREAKER
CC	CONDUIT CLOSE
CT	CONDUIT
CB	CONTROL BOARD
CEM	CEMENT
CKT	CIRCUIT
DIST.	DISTRIBUTION
E	EQUIPMENT
E, EX	EXISTING
F	FUSE
FA	FIRE ALARM
FAS	FIRE ALARM SYSTEM
FS	SEPARATE FEEDER
G	GROUND
GFCI	GROUND FAULT INTERRUPTER
HOA	HAND, OFF, AUTOMATIC
HP	HORSE POWER
HS	HIGH VOLTAGE
HSCB	HIGH VOLT CIRCUIT CONTROL
JB	JUNCTION BOX
LS	LIGHT STAT
LSK	LED VAST ADHESIVE
LV	LOW VOLT
LT	LIGHTING
LTP	LIGHTS
LV	LOW VOLTAGE
MAX	MAXIMUM
MCC	MOTOR CONTROL CENTER
MFR	MANUFACTURER
MIN	MINIMUM
MTR	MAKE WITCHBOARD
MTD	MOUNTED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASS
NIC	NOT INCLUDED
NTS	NOT TO SCALE
OC	OVER CURRENT
O.C.	OVERHEAD
PB	PULL BOX
PNL	PANEL
PNLBD	PANELBOARD
RECEPT	RECEPTACLE
RM	ROOM
SCC	SERVICE CONDUIT
SHT	SHEET
SPEC.	SPECIFICATIONS
SW	SWITCH
SWBD.	SWITCHBOARD
TVL	TIME VOLTAGE LIGHT
TP	TERMINAL PANEL
TB	TERMINAL CABINET
TEL	TELEPHONE
TYP	TYPICAL
UPW	UNINTERRUPTIBLE
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
V	VOLT
VA	VOLT AMPERES
VT	VOLTAGE TAPE
VE	VERIFY EXACT LOCATION
W	WATT
WP	WEATHERPROOF

ABBREVIATIONS

SCALE: NTS

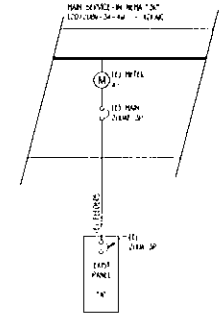
SINGLE LINE NOTES:

1. ALL ITEMS SHOWN ABOVE ARE EXISTING UNLESS OTHERWISE NOTED.
2. ALL FEEDER LENGTHS SHOWN ARE FOR VOLTAGE DROP & SHORT CIRCUIT CALCULATIONS ONLY.
3. ALL NEW FEEDER CONDUCTORS SHALL BE COPPER #2 AWG AND LARGER SHALL BE "THWN" CONDUCTORS SMALLER THAN #2 AWG SHALL BE "THHN/THWN".
4. MAXIMUM AVAILABLE FAULT CURRENT AT MAIN SERVICE ENTRANCE IS 42 KA.
5. IN MAIN SWITCHBOARD BUS BRACING AND AIC RATING OF ALL DEVICES SHALL BE 42,000 MIN.
6. ALL 120/208V PANELS BUSBARS ARE FULLY RATED CONNECTED FOR 42,000 AIC. PANELS SHALL BE CLEARLY MARKED IN THE FIELD IN ADDITION TO THE MANUFACTURER'S NAMEPLATE FOR FULLY RATED COMBINATION RATING. THE MARKING SHALL BE READILY VISIBLE. DAMAGE AND STATE "CAUTION-FULLY RATED SYSTEM".
7. CIRCUIT BREAKERS IN ALL MAIN SWITCHBOARDS AND 120/208V PANELS SHALL BE FROM THE SAME MANUFACTURING AND ENTIRE SYSTEM SHALL BE LISTED AS FULLY RATED SYSTEM FOR 42,000 AIC.
8. ALL KEYNOTE SPACES IN MAIN SWITCHBOARDS AND PANEL BOARDS SHALL BE PROVIDED.
9. ALL 120/208V PANELS SHALL BE RATED 42,000 AIC MIN.
10. SUBMIT SHOP DRAWINGS OF MAIN SWITCHBOARD TO SERVING UTILITY COMPANY AND OBTAIN THEIR APPROVAL PRIOR TO RELEASING SHOP DRAWINGS TO MANUFACTURER. VERIFY TYPE OF REQUIRED METER SOCKETS.
11. ALL SECTIONS OF MAIN SWITCHBOARD SHALL HAVE THE HORIZONTAL AND VERTICAL BUSS BARS RATED FOR THE AMPERE RATING SHOWN ON SINGLE LINE DIAGRAM. REDUCTION OF AMPERE RATING OF BUS BARS THROUGHOUT THE SECTIONS OF MAIN SWITCHBOARDS IS NOT ACCEPTABLE.
12. NOTIFY SWITCHBOARD AND PANEL BOARDS MANUFACTURERS OF FEEDER TERMINATIONS (TOP OR BOTTOM) PRIOR TO SUBMITTING SHOP DRAWINGS.
13. PROVIDE A METALLIC CARD HOLDER ON INSIDE OF DOOR OF EACH PANELBOARD (THE INSIDE CARD). AND ACCURATE TYPEWRITTEN PANEL SCHEDULE SHALL BE PUT BEHIND HEAVY PLASTIC COVER INTO EACH PANEL ROOM NUMBERS SHALL NOT BE THE LINES ON THE PLANS BUT THE ONES DESIGNATED BY THE ARCHITECT AND/OR OWNER.
14. PROVIDE TWO (2) KEYS WITH EACH PANEL BOARD. ALL PANEL BOARDS LOCKS SHALL BE KEYED ALIKE.
15. WHERE TWO (2) PADDLE TYPE BREAKERS OCCUR IN LIGHTING PANELS THE MULTI-PALE BREAKERS SHALL HAVE A COMMON TRIP "CLEVELAND" TYPE UNITS SINGLE PALE BREAKERS WITH TIE-BAR BETWEEN HANDLES WILL NOT BE ACCEPTABLE.
16. PROVIDE BLACK ON WHITE LAMINATED PLASTIC NAMEPLATE ENGRAVED IN NO 1/2" HIGH LETTERS, ATTACHED NAMEPLATES TO EQUIPMENT (SWITCHBOARDS), DISTRIBUTION (PANELS), PANEL BOARDS AND DISCONNECTS ETC WITH RIVETS, BOLTS OR SHEET METAL SCREWS. CEMENT ATTACHMENTS ARE NOT ACCEPTABLE.
17. TIME SWITCHES, CONTRACTORS, RELAYS EACH SHOWN TO BE FURNISHED WITH PANEL BOARDS SHALL BE LOCATED IN BARRIER COMPARTMENTS BEHIND SEPARATE DOORS, MAINTAIN 2" OF SOLID TRIM BETWEEN DOORS. IF NECESSARY, INSTALL SWITCHES, CONTRACTORS, RELAYS, ETC. IN SEPARATE WEATHERPROOF CABINETS WITH HINGED LOCKABLE DOORS. PROVIDE SILKSCREEN TYPE NAMEPLATES TO FULLY COMPLY WITH LATEST HANDICAP STANDARDS.

SINGLE LINE DIAGRAM

SCALE: NTS

PARTIAL EXISTING SINGLE LINE DIAGRAM



NOT USED

SCALE: NTS

DARRYL MURRAY INC.
MECHANICAL ENGINEERS
VICE PRESIDENT & PRESIDENT
1355 N. 3275 W. Cedar City, UT 84721
Tel. 818 355 0325 Fax 800 277 4655
darryl@darrylmurrayinc.com

STAMP

DATE SIGNED 03/11/25

OWNER / TENANT

PROJECT TITLE

VICKY'S BUBBLY CAFE

PROJECT ADDRESS

14782 Crenshaw Blvd.
Gardena, CA 90249

REVISIONS

NO	DATE	DESCRIPTION

DRAWN BY DARRYL MURRAY

CHECKED BY RG/ML

PRINTED ON 03/11/2025

PERMIT NO

TITLE

ELECTRICAL GENERAL NOTES, LEGENDS & SINGLE LINE DIAGRAM

SHEET #

E1.0

NO OF

LIGHTING FIXTURE SCHEDULE

TYPE	IMAGE	LAMP	DESCRIPTION	MANUF. & CATALOG
A 277				
AL 277				
B 277				
C 277				
F 277				

LIGHTING NOTES

SCALE NTS

EMERGENCY LIGHTING PHOTOMETRICS

SCALE 1/8" = 1'-0"

DESCRIPTION	ZONE #1	ZONE #2	ZONE #3	ZONE #4
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

PROPOSED LIGHING PLAN

SCALE 1/4" = 1'-0"

DARRYL MURRAY INC.
[illegible]
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STAMP

DATE SIGNED 03/11/25

OWNER / TENANT

PROJECT TITLE

VICKY'S BUBBLY CAFE

PROJECT ADDRESS

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Gardena, CA 90249

REVISIONS

NO	DATE	DESCRIPTION

DRAWN BY DARRYL MURRAY

CHECKED BY RG/DM

PRINTED ON 03/13/2025

PERMIT NO

TITLE

ELECTRICAL LIGHTING & EMERGENCY LIGHTING PLAN

SHEET #

E2.0

NO OF

EQUIPMENT LIST / SPECIFICATIONS

| | | |

STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — NRCC-LTI-01

This document is used to demonstrate compliance with requirements in §100.0(c), 110.9(b), 141.0, 140.6 and 141.0(b)2F for indoor lighting systems using the prescriptive path for nonresidential and hotel/motel occupancy types. It is also used to document compliance with requirements in §100.1, 170.2(a) and 170.2(b)3A for indoor lighting systems using the performance path for multifamily occupancies. Multifamily includes dormitory and senior living facilities.

Project Name: Vicky's Cafe		Report Page:	Page 1 of 7
Project Address: 14782 Crenshaw Blvd		Date Prepared:	3/11/2025

A. GENERAL INFORMATION

01 Project Location (City): Gardena	04 Total Conditioned Floor Area (ft²):	2,512	
02 Climate Zone: 7	05 Total Unconditioned Floor Area (ft²):	0	
03 Occupancy Types Within Project (select all that apply):	06 Mixed Occupancy Calculation Method Chosen:		

☐ Office ☐ Support Areas ☐ All Other Occupancies

B. PROJECT SCOPE

This section lists which lighting systems shall comply with the scope of the current alteration and is demonstrating compliance using the prescriptive path contained in 140.6 / 170.2 and or 141.0b 2 / TAC 24 Part 6 for alterations.

Scope of Work	Conditioned Spaces		Unconditioned Spaces	
01	02	03	04	05
My Project: (select all that apply)	Calculation Method	Area (ft²)	Calculation Method	Area (ft²)
☐ New Lighting System				
☐ New Lighting System - Parking Garage				
☒ Altered Lighting System	Area Category Method	1052	Area Category Method	0
Total Area of Work (ft²)	1052		0	

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CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-01
Project Name: Vicky's Cafe		Report Page:	Page 2 of 7
		Date Prepared:	3/11/2025

C. COMPLIANCE RESULTS

If any cell on this table says "FAIL", "NOT COMPLIANT" or "TC VIOLATED", see Supplemental Calculations, refer to Table D for guidance.

Lighting in conditioned and unconditioned spaces must not be combined per compliance per 140.6(a1) / 170.2(a)	Allowed Lighting Power per 140.6(a) / 170.2(a) (Watts)					Adjusted Lighting Power per 140.6(a) / 170.2(a) (Watts)				Complies Not Results
	01	02	03	04	05	06	07		08	09
	Complete Building (140.6(a1))	Area Category (140.6(a1) / 170.2(a)(4)(A))	Area Category Adjustment (140.6(a1) / 170.2(a)(4)(B))	Tailored (140.6(a1) / 170.2(a)(4)(C))	=	Total Allowed (Watts)	Total Designed (Watts)	Adjustments PAF Lighting Control Credit (140.6(a1) / 170.2(a)(4)(E))	+ Total Adjusted (Watts) *Includes Adjustments	
	(See Table E)	(See Table E)	(See Table E)	(See Table E)			(See Table F)	(See Table F)		
Conditioned		1052	0		=	368	248		= 248	COMPLIES
Unconditioned					=					COMPLIES

Compliance (See Table G for Details)

Actual Power Reduction Compliance (See Table G for Details)

D. EXCEPTIONAL CONDITIONS

This section includes information made by the permit applicant to the Authority Having Jurisdiction.

E. ADDITIONAL REMARKS

This section includes remarks made by the permit applicant to the Authority Having Jurisdiction.

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CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-01
Project Name: Vicky's Cafe		Report Page:	Page 3 of 7
		Date Prepared:	3/11/2025

F. INDOOR LIGHTING FIXTURE SCHEDULE

This table includes all permitted permanent and portable lighting other than dwelling unit/sleeping room lighting. Multifamily dwelling unit and hotel/motel room lighting is documented in Table T. If using Table T to document lighting in multifamily common use areas providing sub-metering for tenant cooking or washroom, state furnished or not not included here.

Designed Wattage, Conditioned Spaces

01	02	03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description	Modular (Yes/No)	Small Aperture & Color Change*	Watts per Luminaire*	Have Is Wattage determined	Total Number of Luminaires	Calculated per 140.6(a1) / 170.2(a)2C	Design Watts	Field Inspector Pass	Fail
A, A1	2'x4' LED Troffer	No	No	22.2	Min Spec	11	No	244.2	☐	☐
						Total Designed Watts: CONDITIONED SPACES		248		

*FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per 140.6(a)4B / 170.2(a)2D is adjusted to be 75% / 80% of their rated wattage. Table F automatically makes this adjustment; the permit applicant should enter full rated wattage in column 05.

*Authority Having Jurisdiction may ask for luminaire cut sheets to confirm wattage used for compliance per § 140.6(a) / 170.2(a). Wattage used must be the maximum rated for the luminaire not the lamp.

G. MODULAR LIGHTING SYSTEMS

This section does not apply to this project.

H. INDOOR LIGHTING CONTROLS (Not Including PAFs)

This table includes lighting controls for conditioned and unconditioned spaces.

Building Level Controls

01	02	03	
		Field Inspector	
		Pass	Fail
Mandatory Demand Response 110.12(c)	Shut off controls 130.1(a) / 140.6(a)4C	☐	☐
Required on > 2000W subject to multifamily	Whole Building Auto Time Switch	☐	☐

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CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-01
Project Name: Vicky's Cafe		Report Page:	Page 4 of 7
		Date Prepared:	3/11/2025

H. INDOOR LIGHTING CONTROLS (Not Including PAFs)

Area Level Controls

04	05	06	07	08	09	10	11	12	
Area Description	Complete Building or Area Category Primary Function Area	Manual Area Controls (140.1(a) / 130.1(a)4A)	Multi-level Controls (140.1(a)2 / 130.1(a)4B)	Shut Off Controls (130.1(c) / 140.6(a)4C)	Primary/Task or Ambient Downlighting (130.1(d) / 140.6(a)4D)	Secondary Decorative Lighting (130.1(d) / 140.6(a)4D)	Interior Daylit Zone(s) (140.6(a)2 / 170.2(a)1B)	Field Inspector Pass	Fail
Whole Building	All Other Space Types	Readily Accessible	Occupant	See Building Level	Installed	Installed	No	☐	☐
							11		
							Plan Sheet Shows Daylit Zones		

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Each area is complying using the Complete Building or Area Category Methods per 140.6(a) and included in this table. Complete Documentation of additional lighting power adjustments per 140.6(a) or alternative compliance per 140.6(a)4 are being proposed.

Conditioned Spaces

01	02	03	04	05	06	
Area Category	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft²)	Area (ft²)	Allowed Wattage (Watts)	Additional Allowance / Adjustment Area Category	PAF
Public Lobby	All Other Space Types	0.8	526	420.8	No	No
Hallway	Exit/Egress Circulation	0.95	247	234.6	No	No
Storage & Restroom	Corridor	0.8	283	226.4	No	No
Office	Office (<250 square feet)	0.65	46	29.9	No	No
		TOTALS	1,052	911.6		See Tables J, L or P for detail

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CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-01
Project Name: Vicky's Cafe		Report Page:	Page 5 of 7
		Date Prepared:	3/11/2025

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD CLASSIFYING LIGHTING SYSTEM

This section does not apply to this project.

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE

This section does not apply to this project.

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY

This section does not apply to this project.

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED TASK AND TASK LIGHTING

This section does not apply to this project.

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE (SPECIAL EFFECTS)

This section does not apply to this project.

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE

This section does not apply to this project.

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))

This section does not apply to this project.

Q. RATED POWER REDUCTION COMPLIANCE FOR ONE FOR ONE ALTERATIONS

This section does not apply to this project.

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CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

STATE OF CALIFORNIA

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CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-01
Project Name: Vicky's Cafe		Report Page:	Page 6 of 7
		Date Prepared:	3/11/2025

R. BPN LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS

This section does not apply to this project.

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)

This section does not apply to this project.

T. DWELLING UNIT LIGHTING

This section does not apply to this project.

U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Mandatory Energy Rules must be met and certificates provided in this document. If any selections have been changed by permit applicant, an explanation should be included in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online.

Form/Title
NRCI-LTI-01 - Must be submitted for all buildings

V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no NRCA items required for this project.

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CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-01
Project Name: Vicky's Cafe		Report Page:	Page 7 of 7
Project Address: 14782 Crenshaw Blvd		Date Prepared:	3/11/2025

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance document is to be completed by me:

Documentation Author Name: Darryl Murray	Documentation Author Signature:
Company: Darryl Murray Inc	Signature Date: 2025-03-11
Address: 1355 N. 3775 W.	CEA/HERS Certificate or Certificate Number:
City/State/Zip: Cedar City UT 84721	Phone: 818-355-0225

RESPONSIBLE PERSON'S DECLARATION STATEMENT

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

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Section 5537 or 6737 of the Business and Professions Code to submit documents to the City Building Official for submittal and Certificate of Compliance under penalty of perjury.
3. The energy features and performance specifications, materials, components, and manufacturer specifications for the building design or system design identified in this Certificate of Compliance conform to the requirements of Title 24, Parts 1 and 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance conform to the information provided on the construction plans and specifications submitted to the enforcement agency for approval and to the building permit application.
5. I am authorized and I am a registered engineer, or an architect licensed in the State of California to practice in the State, and qualified to submit the plans and specifications for the building for which this Certificate of Compliance is submitted.

Responsible Person's signature means that the Responsible Person has reviewed the Certificate of Compliance document and is responsible for the building design or system design features identified in this document.

Responsible Person Name: Matthew Lewis	Responsible Person Signature:
Company: Darryl Murray Inc	Signature Date: 2025-03-11
Address: 1355 N. 3775 W.	License: C-46
City/State/Zip: Cedar City UT 84721	Phone: 818-355-0225

Generated Date/Time — Report Version: 2022.0.000; Schema Version: rev.2022.0121 — Documentation Software: Energy Pro — Compliance: EnergyPro 7.868.0025.1974; Report Generated: 2025.03.13.09.14.04

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

DARRYL MURRAY INC
MECHANICAL ENGINEERING
VICKIAN CIVIL ENGINEERING
1355 N. 3775 W. Cedar City, UT 84721
TEL: 818.355.0225 FAX: 805.277.3695
darryl@darrylmurrayinc.com

STAMP

DATE SIGNED 03/13/25

OWNER / TENANT

PROJECT TITLE

VICKY'S BUBBLY CAFE

14782 Crenshaw Blvd.
Gardena, CA 90249

PROJECT #: 0250455

REVISIONS

NO	DATE	DESCRIPTION

DRAWN BY: DARRYL MURRAY

CHECKED BY: RGRAI

PRINTED ON: 03/13/2025

PERMIT NO:

TITLE

ELECTRICAL TITLE 24
ENERGY COMPLIANCE
FORMS

SHEET #

E4.0

NO OF

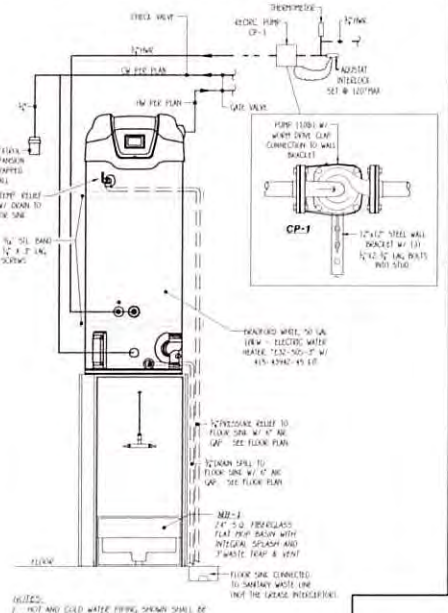
PLUMBING NOTES:

1. ALL WORK SHALL CONFORM TO THE 2022 CPC & CBC 1203
2. DRAWINGS AND SPECIFICATIONS GOVERN WHERE THEY EXCEED CODE REQUIREMENTS
3. CONTRACTOR SHALL VERIFY LOCATION OF UTILITIES AND POINTS OF CONNECTION BEFORE START OF WORK. MAKE A SURVEY OF ALL EXISTING CONDITIONS THAT MAY AFFECT THE WORK UNDER THIS SECTION
4. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF PLUMBING FIXTURES & FLOOR DRAINS
5. ALL CLEANOUTS SHALL BE OF CAST IRON AND SHALL ACCESSIBLE
6. DO NOT SCALE FLOOR PLAN DRAWING FOR EXACT HORIZONTAL LOCATION OF PIPE RUNS
7. ALL PLUMBING FIXTURES AND EQUIPMENT SHALL HAVE A ISOLATING VALVE ON WATER SUPPLY LINES
8. VALVES SHALL BE LINE SIZE UNLESS OTHERWISE NOTED
9. VERIFY ACCUZIMATH TUB TRIM LOCATIONS IN FIELD. SEE ARCHITECTURAL DRAWINGS
10. ALL PIPING IN FINISHED AREAS SHALL BE HIDDEN CONCEALED
11. ALL PIPING, PENETRATING WALL, CEILINGS AND FLOORS SHALL BE ISOLATED FROM BUILDING STRUCTURES WITH RESILIENT SEALS. CLEARANCE FOR CASEWORK AROUND PIPES ARE TO PREVENT NOISE AND VIBRATION. SEE NOTE NO 36 BELOW
12. COORDINATE ALL WORK WITH OTHER TRADES AND CONTRACTORS
13. NOT USED
14. CONTRACTOR SHALL PROVIDE AND INSTALL AT NO EXTRA COST TO THE OWNER TRAP PRIMERS IN ALL FLOOR DRAINS AND FLOOR SINKS WHERE REQUIRED BY CODE. WHERE A COLD WATER SOURCE LINE TO A FREQUENTLY USED FIXTURE IS AVAILABLE, THE PRIMER SHALL BE "WATERMAN PRODUCTS" WITH INTEGRAL VACUUM BREAKER. PROVIDE ADAPTER FITTINGS WITH PROPER TAPS AS REQUIRED INCLUDING ACCESS PANEL
15. REFER TO PIPE MATERIAL SCHEDULE ON THIS SHEET FOR PIPING MATERIALS
16. IF WATER PRESSURE IN STREET IS 80 PSI OR MORE, INSTALL PRESSURE REGULATOR
17. ALL PIPING, PENETRATING (1) HOURS WALLS SHALL BE FIRE SAFE BY CAULKING AROUND OPENINGS WITH "3M" FOLLOWING MANUFACTURER'S INSTRUCTIONS
18. ALL CLEAN-OUTS SHALL BE INSTALLED PER CPC SECTION 707
19. PROVIDE AND INSTALL CLEAN-OUTS ON ALL HAND-SINK AS PER SIZE INDICATED ON PLAN
20. CONTRACTOR IS TO TAKE CARE TO PRESERVE ALL EXISTING UTILITIES IN THE SCOPE OF WORK FOR THIS PROJECT. CONTRACTOR IS TO REPAIR OR REPLACE ALL UTILITIES DAMAGED DURING CONSTRUCTION
21. NO SANITARY VENT SHALL TERMINATE CLOSER THAN 10'0" FROM ANY FRESH AIR INTAKE OR ANY OPENABLE WINDOW
22. THE CONTRACTOR IS TO SUBMIT TO THE OWNER FOR APPROVAL, CATALOG CUTS OF ALL FIXTURES
23. THE CONTRACTOR IS TO VISIT THE JOB SITE PRIOR TO BIDDING PIPE AND VERIFY ALL DIMENSIONS, LOCATIONS, AND CLEARANCES
24. THE CONTRACTOR SHALL PROVIDE THE OWNER WITH A LABOR AND MATERIAL WARRANTY FOR A PERIOD OF (1) YEAR OR AS PER SPECIFIC AGREEMENT
25. CONTRACTOR SHALL BRING TO THE ATTENTION OF THE ARCHITECT OR ENGINEER ANY ADDITIONAL LABOR AND/OR MATERIALS REQUIRED FOR A COMPLETE AND OPERABLE SYSTEM BEFORE PROCEEDING WITH THE WORK
26. CONTRACTOR SHALL PERFORM ALL TESTING AND PAY FOR ALL PERMITS
27. ALL HOT WATER PIPING SHALL BE INSULATED SHALL BE 1" THICK FOR PIPES LESS THAN 1", 1.5" THICK FOR PIPES 1" TO 1.5" AND 2" THICK FOR PIPES 2" OR LARGER AS INDICATED IN THE 2019 ENERGY STANDARDS AND 2020 COUNTY OF LOS ANGELES PLUMBING CODE
28. PLANS ARE DIAGRAMMATIC ONLY. FIELD CONDITIONS SHALL DETERMINE EXACT LOCATION AND ROUTING OF PIPES
29. ALL HORIZONTAL DRAIN LINES SHALL RUN WITH A 2% SLOPE MINIMUM
30. PROVIDE PRIMARY AND SECONDARY CONDENSATE DRAIN PIPING FROM ALL AIR CONDITIONING UNITS PER PLANS
31. PLUMBING FIXTURES AND FITTINGS SHALL BE SELF-CLOSING OR METERING OF ALL FAUCETS AND MEET THE THE FOLLOWING STANDARDS
   A) WATER CLOSETS - 1.28 GPF
   B) URINALS - WALL MOUNT - 0.125 GPF, FLOOR MOUNT - 0.5 GPF
   C) SINGLE SHOWERHEAD - 1.8 GPM @ 80psi
   D) MULTI SHOWERHEAD - 1.8 GPM @ 80psi FOR ALL COMMON SHOWERHEADS
   E) NONRESIDENTIAL LAV - 0.5 GPM @ 60psi, KITCHEN FAUCETS - 1.8 GPM @ 60psi
   F) WOOD FLOORING - 1.8 GPM @ 60psi
   G) LAVATORY FAUCETS (NON-RES), COMMON AREA - 0.5GPM
   H) METERING FAUCETS - 0.25 GPC @ 60psi
   I) METERING FAUCETS FOR WOOD FLOORING - 0.20 GPC @ 60psi
   J) COMMERCIAL KITCHEN FAUCETS - 1.8 GPM
32. NOT USED
33. ALL CLEANOUTS SHALL BE PROVIDED IN COMPLIANCE WITH CPC SECTION 707.0
34. ALL COPPER LINES FOR DEMESTIC WATER USE SHALL BE REAMED TO FULL I.D. AND USE APPROVED FLUX AND SOLDER
35. PROVIDE 2X6 PIPE WALLS WHERE PLUMBING IS INSTALLED. HEATING AND COOLING TO COMPLY WITH 2022 CALIFORNIA PLUMBING CODE
36. COORDINATE WASTE BELOW SLAB FLOORING W/STRUCTURAL FOUNDATION DRAWINGS
37. INSTALL WATER HEATER FLUE VENT PER CODE SECTION 505-516 & 517
38. USE ACCESS PLUMB PIPING EXCAVATION PATHWAYS FOR PIPE SAND PENETRATIONS ETC. SEE PLUMBING DETAIL SHEET
39. WATER CLOSET BOWLS FOR PUBLIC USE SHALL BE OF THE ELONGATED TYPE
40. NEW OR REPAIRED WATER SYSTEM SHALL BE DISINFECTED PRIOR TO THE USE ACCORDING TO THE METHOD SET IN SECTION 609.9 OF THE PLUMBING CODE
41. ACCESSIBLE WATER HAMMER ARRESTER SHALL BE INSTALLED FOR QUICK-ACTION VALVES. LOCATION AND METHOD OF INSTALLATION SHALL COMPLY WITH THE MANUFACTURER'S RECOMMENDATION
42. CONTRACTOR TO PROVIDE WASTE AND WATER TESTING AS PER CPC SECTION 609.9 AND 412.2
43. CONTRACTOR TO PROVIDE AND INSTALL TRAP PRIMERS AS PER CPC SECTION 1002.2

BACKFLOW TESTING PROCEDURES:

44. TESTING COMPANIES MUST SUBMIT "SIGNED-OFF" TEST NOTICES TO THE CROSS-CONNECTION PROGRAM NO LATER THAN 30 WORKING DAYS AFTER THE DATE OF "INITIAL TEST" IF THE DEVICE PASSED, OR NO LATER THAN 30 WORKING DAYS AFTER THE DATE OF "FINAL TEST" IF THE DEVICE INITIALLY FAILED AND REPAIRED AND THEN PASSED. FAILURE TO DO SO WILL RESULT IN THE REMOVAL OF THE TESTER COMPANY AND/OR TESTER FROM THE LOS ANGELES COUNTY CROSS-CONNECTION EMPLOYEE/TESTER DATABASE. SAID COMPANIES/TESTERS MAY APPLY FOR REINSTATEMENT THIRTY DAYS AFTER SAID REMOVAL AFTER WRITTEN EXPLANATIONS ARE RECEIVED WHICH DEMONSTRATE REASONABLE AND ACCEPTABLE EXTRAORDINARY REASONS FOR NOT MEETING THIS DEADLINE.
45. TEST NOTICES RECEIVED AFTER THE DEADLINE MENTIONED IN ITEM 1 ABOVE WILL BE SUBJECT TO FIELD AUDIT BY THIS DEPARTMENT
46. THE CROSS-CONNECTION PROGRAM VERIFY ONE TO TEN WILL REQUEST COPIES OF TESTING/REPAIR INVOICES FROM COMPANIES PICKED AT RANDOM SO AS TO SUBSTANTIATE ACCURACY OF TESTING "SIGN-OFF" DATES. SIGNIFICANT DISCREPANCIES UNCOVERED BY THIS AUDIT WILL RESULT IN PERMANENT REMOVAL OF THE COMPANY AND TESTER FROM THE DATABASE. SINCE THE DEPARTMENT IS REQUESTED ONLY IN TEST DATE INFORMATION, BILLING AMOUNTS ON THESE INVOICES MAY BE MASKED SO AS TO MAINTAIN PRIVACY OF THIS INFORMATION
47. TESTS PERFORMED REGARDING IN SOME COMPONENT FAILURE SHOULD BE SUBMITTED TO THE PROGRAM AS SOON AS IT HAS BEEN DETERMINED THE REPAIR WORK AND RETEST IS NOT GOING TO BE PERFORMED BY THE ORIGINAL TESTING COMPANY
48. ON JULY 1 OF EACH YEAR ALL GENERAL TESTING COMPANIES MUST SUBMIT ON COMPANY LETTERHEAD STATEMENT A CURRENT LIST OF CERTIFIED BACK-FLOW PREVENTION DEVICE TESTERS THEY EMPLOY. A REVISED LIST MUST BE FAXED TO THE DEPARTMENT AS NEW TESTERS ARE EMPLOYED AND AS TESTERS LEAVE THEIR EMPLOYMENT
49. ALL STORM WATER LINES SHALL BE FILLED TO THE TOP FOR TESTING
50. ALL TESTING SHALL BE DONE BY AN APPROVED VERIFIER COUNTY TESTING AGENCY

GENERAL NOTES — SCALE NTS



NOTES:
1. HOT AND COLD WATER PIPING SHOWN SHALL BE CONCEALED

TANKLESS WATER DETAIL — SCALE NTS

SYMBOLS	ABBREVIATION	DESCRIPTION
	S OR W	SEWER OR WASTE ABOVE FLOOR OR GRADE
	S OR W	SEWER OR WASTE BELOW FLOOR OR GRADE
	V	VENT
	CW	COLD WATER
	HW	HOT WATER
	HWR	HOT WATER RETURN
	CD	CONDENSATE DRAIN
	D	DRAIN
	G	GAS (LOW PRESSURE)
	MPG	GAS (MEDIUM PRESSURE)
	SD	STORM DRAIN
	OD	OVERFLOW DRAIN
	PCW	PURIFIED COLD WATER
	NCW	NON-COLD WATER
	GC	GAS COCK
	BV	BALANCING VALVE
	CV	CHECK VALVE
	U	UNION
	FCO	FLOOR CLEANOUT
	WCO	WALL CLEANOUT
	CO	CLEANOUT
	YCO	YARD CLEANOUT
	POC	POINT OF CONNECTION
	VTR	VENT THRU ROOF

PLUMBING LEGEND — SCALE NTS

WATER PRESSURE INFORMATION: EXISTING WATER PRESSURE IS 75 PSI
WATER PRESSURE MAX 80 PSI MIN 75 PSI ELEV FT METER SIZE 2"
DEVELOPED LENGTH 200' + 50' (CONTIG) = 250'

PRV SETTING 75.0 PSI

RESIDUAL PRESSURE	20.00 PSI
LOSS FROM PRV 2"	6.00 PSI
LOSS FROM ELEV 10' X 0.43	4.33 PSI
METER LOSS	2.50 PSI
	29.83 PSI

PRESSURE AVAILABLE FOR FRICTION LOSS: 75 - 29.8 = 35.2 PSI
FRICTION LOSS PER 100 FT = (35.2/250)*100 = 14.1 PSI/ 100 FT.

SIZE	CW FU	CW FT	HW	GPM
1/2"	3	3	3	3
3/4"	6	13	8	10
1"	9	30	16	20
1 1/4"	14	56	28	31
1 1/2"	35	103	46	44
2"	102	254	119	76
2 1/2"	279	455	245	115
3"	444	719	408	165
3 1/2"	1071	1050	585	222
4"	1650	1440	840	290

WATER CALCULATIONS — SCALE NTS

TABLE 313.1
HANGERS AND SUPPORTS

MATERIALS	TYPES OF JOINTS	HORIZONTAL	VERTICAL
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
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[illegible]	[illegible]	[illegible]	[illegible]
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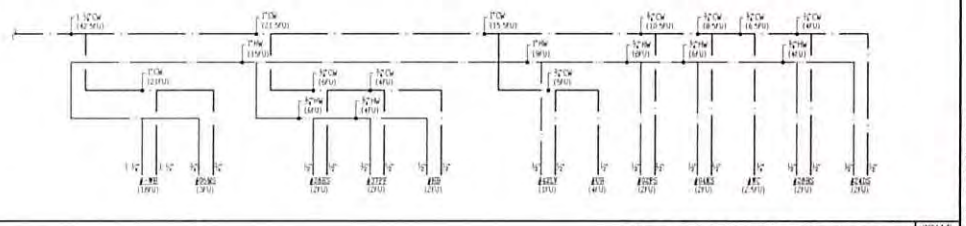
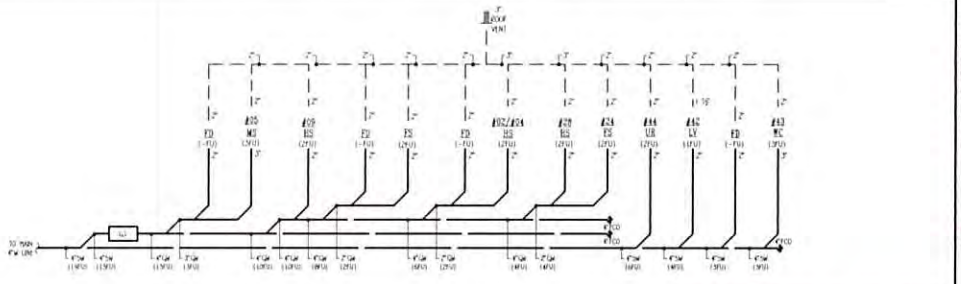
HANGER /SUPPORTS — SCALE NTS



HOT & COLD WATER RISER DIAGRAM — SCALE NTS



WASTE & VENT RISER DIAGRAM — SCALE NTS

PIPE MATERIAL SCHEDULE

WATER VELOCITY MUST NOT EXCEED 8 FPS

SERVICE		CW	HW	CIRCULATING HW	COLD WATER SOLDER	SOLID CORE PVC	VENT	REMARKS
DOMESTIC WATER	INSIDE	•						MUST ADD SOLD. PIPING WITH PLASTIC COVER
	OUTSIDE	•						
SANITARY SEWER	INSIDE						•	
	OUTSIDE						•	
SANITARY VENT	INSIDE						•	
	OUTSIDE						•	
GAS PIPING	INSIDE					•		
	OUTSIDE					•		
CONDENSATE PIPING				•				

PIPE SCHEDULE — SCALE NTS

TYPE	DESCRIPTION	REF	MODEL	W	DEPT	H	CW	HW	REMARKS/SPECIFICATIONS
WC	WATER CLOSET WALL	CAROLE		2'	36"	2'	1 1/2"		WALL MOUNTED TANK TYPE ADA ACCESSIBLE SUNGLASS BOWL WITH OPEN FRONT SEAT / 1.1 GALLON FLUSH FLUSH WITH SLOWE FLUSHMATE SYSTEM WITH BUILT IN BACK FLOW PREVENTER
LV	LAVATORY		WALL FORM CONCRETE	2'	36"		1 1/2"	1/2"	WOMEN'S LAVATORY - 60" WALL MOUNTED ADA ACCESSIBLE FLOATING CONCRETE SINK WITH ADJUSTABLE SINGLE HANDLE FAUCET INSULATED TRAP AND 1 1/2" PIPE ON SUPPLY PIPES ACCESSIBLE / 20" WALL MOUNTED ADA ACCESSIBLE VALVED FLOATING CONCRETE SINK WITH ADJUSTABLE SINGLE HANDLE FAUCET INSULATED TRAP AND 1 1/2" PIPE ON SUPPLY
CUB	URINAL		AMERICAN STANDARD 6590.001.020	2'	36"	2'	3/4"	-	WALL MOUNTED ADA APPROVED WHITE SIPHONIC SUNGLASS WASHOUT URINAL WITH HIGH EFFICIENCY LOW CONSUMPTION OPERATES IN THE RANGE OF 0.125GPF TO 1.0GPF. INSTALLATION OF ADA FLUSH HANDLE WALL MOUNTS FLUSH REQUIREMENTS
RS	WAIT SINK		JOHN BOOS - PRO BOWL SERIES	2'	36"	2'	1/2"	1/2"	ONE PIECE DEEP DRAWN BOWL ONE COMPARTMENT SINK W/STAINLESS STEEL DEEP DRAWN BOWLS
KS	KITCHEN SINK		JOHN BOOS - SOLID 2024 "CR" SERIES SINK 24"x20"x12"	2'	36"	2'	1/2"	1/2"	1 COMPARTMENT KITCHEN SINK
PS	PREP SINK		JOHN BOOS - OPEN DOOR SINK 18"x18"x12"	2'	36"	2'	1/2"	1/2"	-
MS	MOP SINK		MUSTEE 63M	2'	36"	2'			OFFICE MOP SINK W/ MODEL #63M WITH FAUCET AND BACK FLOW DEVICE

DOES NOT DISPOSE WASTE AND WATER SEPARATE

FIXTURE SCHEDULE — SCALE NTS

DARRYL MURRAY INC.
MURRAY ENGINEERING & PROJECT MANAGEMENT
MECHANICAL ● ELECTRICAL ● PLUMBING
1355 N. 3775 W., Cedar City, UT 84721
Tel: 818 355 0225 Fax: 805 277 3655
darryl@murrayengineer.com

STAMP

REGISTERED PROFESSIONAL ENGINEER — M. GHATTAS — No. M 21705 — STATE OF CALIFORNIA

DATE SIGNED 03/11/25

OWNER / TENANT

PROJECT TITLE

VICKY'S BUBBLY CAFE

PROJECT ADDRESS

14782 Crenshaw Blvd.
Gardena, CA 90249

REVISIONS

NO	DATE	DESCRIPTION

DRAWN BY: DARRYL MURRAY
CHECKED BY: RG/ML
PRINTED ON 03/11/2025
PERMIT NO.

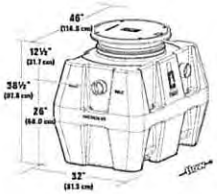
TITLE
PLUMBING GENERAL NOTES & RISER DIAGRAMS

SHEET #
P1.0

NO OF

GB-75

Great Basin High Efficiency Grease Interceptor Technical Data



SUBMITTAL

STANDARD: [illegible]

OPTIONS:

- [illegible]
- [illegible]
- [illegible]
- [illegible]
- [illegible]
- [illegible]
- [illegible]
- [illegible]

Tonnelier Riser:

- GB24 [illegible]
- GB26 [illegible]
- GB28 [illegible]
- GB24 - LB28 [illegible]
- GB26 - LB28 [illegible]

APPROVAL:

Signature

Date

Company

Name (Print Clearly)

Engineering Firm

SCHIER LIFETIME GUARANTEED GREASE INTERCEPTORS | MODEL NUMBER: GB-75 | DESCRIPTION: [illegible] | PART #: [illegible] | DWG BY: [illegible] | DATE: [illegible] | REV: [illegible] | [illegible]

[illegible] | [illegible] | [illegible] | [illegible] | © Copyright 2013 Schier. All Rights Reserved

[illegible] page 1 of 6

SPECIFICATIONS

NOTES

1. [illegible]
2. [illegible]
3. [illegible]
4. [illegible]
5. [illegible]
6. [illegible]
7. [illegible]
8. [illegible]
9. [illegible]
10. [illegible]
11. [illegible]
12. [illegible]
13. [illegible]
14. [illegible]

DIFFUSION FLOW TECHNOLOGY

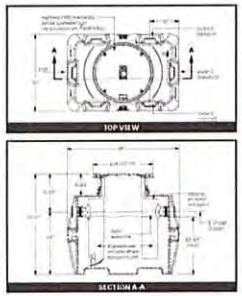
[illegible]

ENGINEER SPECIFICATION GUIDE

[illegible]

CERTIFIED PERFORMANCE

[illegible]



SCHIER LIFETIME GUARANTEED GREASE INTERCEPTORS | MODEL NUMBER: GB-75 | DESCRIPTION: [illegible] | PART #: [illegible] | DWG BY: [illegible] | DATE: [illegible] | REV: [illegible] | [illegible]

[illegible] | [illegible] | [illegible] | [illegible] | © Copyright 2013 Schier. All Rights Reserved

[illegible] page 2 of 6

INSTALLATION (1 of 2)

WARNING! DO NOT AIR TEST UNIT OR TELESCOPE RISER SYSTEM! Doing so may result in property damage. [illegible] injury or death.

LEAK/SEAL TESTING

[illegible]

GENERAL INSTALLATION INSTRUCTIONS

[illegible]

1. The **flow control plate is not installed** [illegible]
2. [illegible]
3. [illegible]
4. [illegible]
5. [illegible]
6. [illegible]
7. [illegible]
8. [illegible]

NOTE: [illegible]

BELOW GRADE INSTALLATION INSTRUCTIONS

EXCAVATION

1. [illegible]
2. [illegible]
3. [illegible]

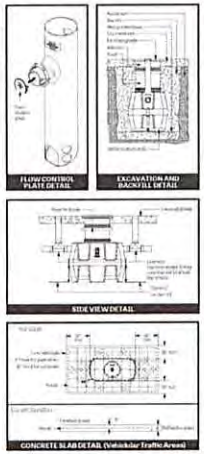
BACKFILL

1. [illegible]
2. [illegible]
3. [illegible]
4. [illegible]
5. [illegible]

FINISHED CONCRETE SLAB

[illegible]

Vehicular traffic areas: [illegible]



SCHIER LIFETIME GUARANTEED GREASE INTERCEPTORS | MODEL NUMBER: GB-75 | DESCRIPTION: [illegible] | PART #: [illegible] | DWG BY: [illegible] | DATE: [illegible] | REV: [illegible] | [illegible]

[illegible] | [illegible] | [illegible] | [illegible] | © Copyright 2013 Schier. All Rights Reserved

[illegible] page 3 of 6

INSTALLATION (2 of 2)

TELESCOPIC RISER OPTIONAL INSTALLATION GUIDELINES

Tools needed: [illegible]

NOTE: [illegible]

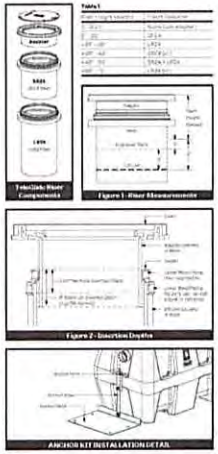
Riser Assembly Instructions/Steps

1. [illegible]
2. [illegible]
3. [illegible]
4. [illegible]
5. [illegible]
6. [illegible]
7. [illegible]
8. [illegible]
9. [illegible]
10. [illegible]

IMPORTANT: [illegible]

ANCHOR KIT INSTALLATION

[illegible]



SCHIER LIFETIME GUARANTEED GREASE INTERCEPTORS | MODEL NUMBER: GB-75 | DESCRIPTION: [illegible] | PART #: [illegible] | DWG BY: [illegible] | DATE: [illegible] | REV: [illegible] | [illegible]

[illegible] | [illegible] | [illegible] | [illegible] | © Copyright 2013 Schier. All Rights Reserved

[illegible] page 4 of 6

GREASE INTERCEPTOR SPECIFICATIONS | SCALE: 1/2" = 1'-0"

NOTE:

1. CONTRACTOR TO PROVIDE AND INSTALL VAPOR BARRIER WITH DRAINING COURSE AT CONCRETE SLAB TRENCHING, WITH 6-INCH LAP NEW AND EXISTING VAPOR BARRIER
2. CONTRACTOR MAY USE THE EXISTING BUILDING SEWERS AND BUILDING DRAINS IF SEWERS HAVE BEEN PROPERLY MAINTAINED AND FOUND UPON EXAMINATION AND TEST PERFORMED BY THE OWNER OR OWNER'S DESIGNATED AGENT THAT THEY ARE IN WORKING CONDITION AND FREE FROM ANY DEFECT
3. ALL REQUIRED CLEANOUTS SHALL BE INSTALLED AS PER SEC 1013 & 1014 OF THE COUNTY OF LOS ANGELES PLUMBING CODE
4. EACH PLUMBING VENT SHALL TERMINATE NOT LESS THAN TEN (10) FEET FROM OR AT LEAST THREE (3) FEET ABOVE ANY OPENABLE WINDOW, DOOR, OPENING, OR AIR INTAKE. 906.2
5. WATER CLOSET BOWLS FOR PUBLIC USE SHALL BE OF THE ELONGATED TYPE. 411.1
6. POTABLE WATER SUPPLY TO BEVERAGE DISPENSERS, CARBONATORS, OR COFFEE MACHINES SHALL BE PROTECTED BY AN AIR GAP OR A VENTED BACKFLOW PREVENTER IN ACCORDANCE WITH ASSE 1022 601.1.2
7. HORIZONTAL VENTS BELOW THE FLOOD RIM OF THE FIXTURE ARE NOT ALLOWED FOR PLUMBING FIXTURES THAT ARE WITHIN TRAP ARM DISTANCE OF WALL

WASTE & VENT TESTING

EACH SECTION SHALL BE FILLED WITH WATER, BUT NO SECTION SHALL BE TESTED WITH LESS THAN A TEN-FOOT HEAD OF WATER. THE WATER SHALL BE KEPT IN THE SYSTEM, OR IN THE PORTION UNDER TEST, FOR NOT LESS THAN FIFTEEN MINUTES BEFORE INSPECTION STARTS. CPC SECTION 712.2. BUILDING SEWER TEST CPC SECTION 723 . NO AIR TESTING FOR PLASTIC PIPING PER CPC SECTION 712, 723

ALL TEST GAUGES USED IN CONDUCTING TEST SHALL BE IN ACCORDANCE WITH SECTION 316.0 . CPC SECTION 1213.3 . REQUIRED PRESSURE TESTS OF TEN PSI OR LESS SHALL BE PERFORMED WITH GAUGES OF ONE-TENTH OF A POUND INCREMENTION OR LESS . CPC SECTION 316

3-STORE SINK = 18"18"18" = 1800 / 3 = 11.664 / 231 = 50.5 + 10.75 = 37.9
FOOT SINK = 20"20"10" = 4000 / 231 = 17.4 + 10.75 = 28.4
FLOOR SINK = 12"12"10" = 864 / 231 = 3.7 + 10.75 = 28.4 x 3 = 84

37.9 + 37.9 + 84 = 162 GPM

GREASE INTERCEPTOR IS 75GPM / 1440G

NOTES

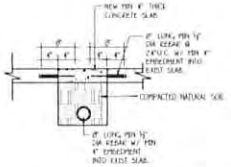
ALL SUB-CONTRACTORS ARE TO REVIEW THE COMPLETE SET OF PLANS AND COORDINATE WITH ALL OTHER DISCIPLINES. IF ANYTHING IS NOTICED TO BE MISSING OR NOT CORRECT ON THESE PLANS THE CONTRACTOR TO NOTIFY DARRYL MURRAY INC. AT 818-355-1025 IMMEDIATELY BEFORE FINAL BID IS APPROVED. IT IS THE CONTRACTORS RESPONSIBILITY READ AND UNDERSTAND "ALL" PLANS. FIELD REVISION SHALL BE HANDLED SEPERATELY

ALL FLOOR SINKS ARE REQUIRED TO HAVE P-TRAPS AND TRAP PRIMERS

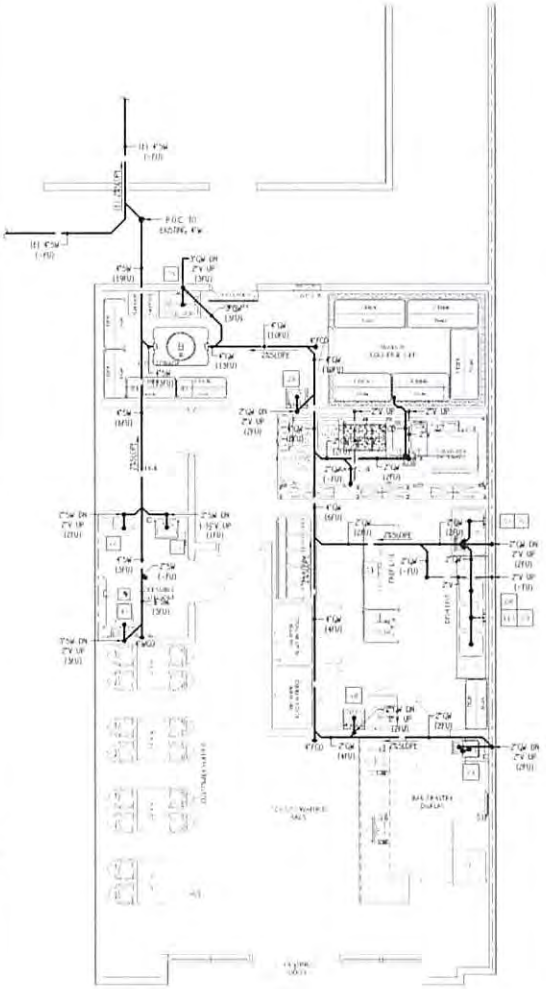
1. TESTING PIPING SYSTEMS. DRAIN, WASTE, AND VENT (DWV) SYSTEM SHALL BE TESTED WITH NO LESS THAN 10' OF HEAD WATER ABOVE THE SYSTEM FOR 15 MIN OR 5 PSI AIR TEST FOR 15 MIN (CPC 712.2)
2. CONTRACTOR TO PROVIDE AND INSTALL TRAP PRIMERS TO ALL FLOOR DRAINS SEE NOTE #16 ON GENERAL NOTES
3. CONTRACTOR TO DISCONNECT EXISTING WC AND LV AND RELOCATE TO NEW LOCATION. CONTRACTOR TO CUT BACK THE EXISTING SANITARY WASTE LINE AS INDICATED AND CAP. RECONNECT AS INDICATED
4. ALL SANITARY SEWER AND GREASE WASTE PIPING SHALL BE SLOPED AT 2% WITH NO EXCEPTIONS. INDICATED ON PLANS BY 1/4" PER SLOPE, INDICATING THE DIRECTION OF FLOW

CONTRACTOR TO INSTALL CLEAN-OUTS. CLEAN-OUT PIPE SHALL BE THE SAME SIZE AND KIND OF MATERIAL AS CATERAL. CLEANOUTS SHALL BE INSTALLED WITHIN 2 FEET OF BUILDING, DIRECTION CHANGES, WITH A MAXIMUM OF 100 FEET INTERVALS.

NOTES | SCALE: NTS



SLAB REPLACEMENT DETAIL | SCALE: NTS


(E) 4"SW (-1'-0")
P.O.C. TO EXISTING 4"W
4"SW (-1'-0")
4"SW (-1'-0")
4"SW (-1'-0")

EQUIPMENT LIST / SPECIFICATIONS

FIXTURE AND EQUIPMENT						ELECTRICAL						PLUMBING					
NO	QTY	ITEM NAME	MFG. & MODEL NO	INSTALLATION METHOD	COMMENTS	VOLT/CYCLE/PHASE	DISCONNECT SIZE	DISCONNECT TYPE	MFG	CONN TYPE	COMMENTS	WATER HOT	WATER COLD	WASTE	BTU X 1000	GAS CONN	COMMENTS
01		SOLID SURFACE COUNTER TOP CORNER SINK	CONT TECHNE MFGD	CT	-	-	-	-	-	-	-	-	-	-	-	-	-
02		PREP SINK	CON ETA MODEL SS18SWL	UCD	-	-	-	-	-	-	-	1/2	1/2	1-1/2" DWV	-	-	DRAIN TO P.S.
03		RANGE STEEL POT (24"x27"x10"D)	WESTERN RANGE MODEL WCRP-36	UCD	-	120/60/1	-	-	7	-	-	-	-	-	90	3/4"	REMOVE GAS CONNECTIONS
04		3 COMPARTMENT SINK (W: 54 D: 24 H: 36)	CON ETA MODEL SS18SWL3D	UCD	-	-	-	-	-	-	-	1/2	1/2	1-1/2"	-	-	1-1/2" DWV
05		PREP SINK (24"x22"x14")	CON ETA MODEL SS18SWL	FLF	-	-	-	-	-	-	-	1/2	1/2	1"	-	-	-
06		RANGE STEEL POT (24"x27"x10"D)	WESTERN RANGE MODEL WCRP-24-2	UCD	-	120/60/1	-	-	2	-	120VAC	-	-	-	180	3/4"	REMOVE GAS CONNECTIONS
07		TABLE MIXER (VARIOUS SIZES) (24"x24"x17") - 5 QUT	CON ETA SS1-MIX	UCD	-	-	-	-	-	-	-	-	-	-	-	-	-
08		HOT FOOD SERVING COUNTER - TABLE	PREP MORNING MEADOW	UCD	-	120/60/1	-	15	20A	TOGG	NEMA 5-15 RP	-	-	-	-	-	-
09		FLOOR MOUNT SINGLE TABLE	NORMAN CONT CORP MODEL BUPP-60		-	120/60/1	3	22	10A	TOGG	NEMA 5-15P	-	-	-	-	-	-
10		WIRE SHELVING (24"x36"x72") - 5 TIER	EFFICIENT	COVED	-	-	-	-	-	-	-	-	-	-	-	-	-
11		WIRE SHELF / 5 TIER SHP (24" x 72")	CON ETA MODEL ESD-3072S	UCD	-	-	-	-	-	-	-	-	-	-	-	-	-
11A		WIRE MOUNTED SHELVING	CON ETA MODEL SE18WS60	WALL	-	-	-	-	-	-	-	-	-	-	-	-	-
12		PREP CUTTING BOARD CABINETS (WHITE)		FLF	-	-	-	-	-	-	-	-	-	-	-	-	-
13		GAS FLOOR FRYER (24"x27"x10"H)	FRIED MONSTER SLX-5	UCD	-	-	-	-	-	-	-	-	-	-	110	3/4"	REMOVE GAS CONNECTIONS
14		HD RANGE 36" 6 BURNERS (24"x12"x27"H)	WESTERN RANGE MODEL HP-6	CT	-	-	-	-	-	-	-	-	-	-	227	3/4"	REMOVE GAS CONNECTIONS
18	2	DRY / TEMPERED HOOD (5'-0" X 14'-0" CANOPY SIZE (EZ)	CAPTIVE AIR	CEILING	INSTALL WORK PER NFPA 96 AND 402, 402	-	-	-	-	DIRECT	DIRECT	-	-	-	-	-	-
19		HOOD SYSTEM	CAPTIVE AIR	WALL	-	-	-	-	-	-	-	-	-	-	-	-	-
20	2	EXHAUST FAN (LOCATED ON ROOF PER MECH PLANS)	CAPTIVE AIR	ROOF	-	208/60/1	1/4	-	5	DIRECT	DIRECT	-	-	-	-	-	-
21		SUPPLY FAN (LOCATED ON ROOF PER MECH PLANS)	CAPTIVE AIR	ROOF	-	208/60/1	1 3/4	-	4.7	DIRECT	DIRECT	-	-	-	-	-	-
22		MEDIA WALL SYSTEM	CAPTIVE AIR	WALL	-	-	-	-	-	-	-	-	-	-	-	-	-
23		WIRE SHELVING (24"x48"x72") - 5 TIER	EFFICIENT	COVED	-	-	-	-	-	-	-	-	-	-	-	-	-
24		PREP & JUMP SINK	ADVANCE TABCO	COVED	-	-	-	-	-	-	-	1/2	1/2	2" DWV	-	-	2" DWV
25	2	DISHWASHER UNDERCOUNTER (24"x25"x34")	OPTIMA MODEL EDW 36	COVED	-	-	-	-	-	-	-	-	-	-	26	3/4"	-
26		REACH IN REFRIGERATOR (WHITE CABINET)	-	COVED	-	115/60/1	1	-	5	CORD	NEMA 5-15P	-	-	-	-	-	-
27		REACH REFRIGERATOR (BL DOOR)	EFFICIENT MODEL EBF1	COVED	-	115/60/1	1/2	-	3.5	CORD	NEMA 5-15P	-	-	-	-	-	-
28		WORK TABLE W/ 6" HL SPLASH GUARDS	CON ETA MODEL HS-3060S	WALL	-	-	-	-	-	-	-	1/2	1/2	1-1/2"	-	-	1-1/2" DWV
29		REACH IN FREEZER (WHITE CABINET)	EFFICIENT MODEL EBF1	COVED	-	115/60/1	1	-	5	CORD	NEMA 5-15P	-	-	-	-	-	-
30		REACH REFRIGERATOR (BL DOOR)	EFFICIENT MODEL EBR2	COVED	-	115/60/1	1/2	-	3	CORD	NEMA 5-15P	-	-	-	-	-	-
31		WIRE SHELVING (8' / 48" UNIFORM SIZE)	EFFICIENT MODEL EWS48	COVED	-	-	-	-	-	-	-	-	-	-	-	-	-
32		3.5 CHEMICAL SHELF	EFFICIENT MODEL CS	WALL	-	-	-	-	-	-	-	-	-	-	-	-	-
33		PREP SINK	CON ETA MODEL SS18SWL	WALL	-	-	-	-	-	-	-	-	-	-	-	-	-
34		5FT WIRE SHELVING (8' / 48" SPLASH GUARDS)	EFFICIENT MODEL EWS48		-	-	-	-	-	-	-	-	-	-	-	-	-
35		AIR CURTAIN	MARS SERIES 10-78 W/ 8KW HEATER	WALL	-	120/60/1PH	-	-	51	CO		-	-	-	-	-	-
36		CONVECTION OVEN	WESTERN RANGE MODEL M-1	UCD	-	120/60/1PH	-	-	4	CO		-	-	-	-	-	-
37		FILE FILL FAUCET	T&S BRASS B-0744	WALL	-	-	-	-	-	-	-	1/2	1/2	-	-	-	-
38		ANTI SCALD FAUCET	T&S BRASS B-0665-CR-HCG	WALL	-	-	-	-	-	-	-	1/2	1/2	-	-	-	-
39		POT FILL FAUCET	T&S BRASS B-0111-ADF2-B	WALL	-	-	-	-	-	-	-	-	1/2	-	-	-	-
40		POINT OF SALE SYSTEM		CT	-	115/60/1	-	-	-	CORD	NEMA 5-15P	-	-	-	-	-	-
41		RECEIPT PRINTER		CT	-	115/60/1	-	-	-	CORD	NEMA 5-15P	-	-	-	-	-	-
42		ACCESSIBLE WALL MOUNT LAVATORY	WESTERN STANDARD ADA APPROVED	WALL	-	-	-	-	-	-	-	1/2	1/2	1-1/2"	-	-	-
43		ACCESSIBLE WATER CLOSET	WESTERN STANDARD ADA APPROVED	FLF	-	-	-	-	-	-	-	-	1/2	1-1/2"	-	-	-
44		ACCESSIBLE URINAL	WESTERN STANDARD ADA APPROVED	WALL	-	-	-	-	-	-	-	-	3/4"	1-1/2"	-	-	-
45		36" ACCESSIBLE GRAB BAR	WESTERN STANDARD ADA APPROVED	WALL	-	-	-	-	-	-	-	-	-	-	-	-	-
46		42" ACCESSIBLE GRAB BAR	WESTERN STANDARD ADA APPROVED	WALL	-	-	-	-	-	-	-	-	-	-	-	-	-
47		18" X 18" DISPENSER PRODUCT SLOTTED PANEL		WALL	-	-	-	-	-	-	-	-	-	-	-	-	-
48		WALL TO CEILING BOX (8'-0" X 14'-0" X 8'-0" HL)	THERMO COOL REF APPROVED	FLF	-	-	-	-	-	-	-	-	-	-	-	-	-
49		GRILLE EXHAUSTER FAN	BROAN CORP	CEILING	-	120/60/1	-	-	11.4	CORD		-	-	-	-	-	-
50		ON TOP OF GRILLE BOX	BROAN CORP		-	-	-	-	12.4			-	-	-	-	-	-

KITCHEN EQUIPMENT SCHEDULE — SCALE: 1/4" = 1'-0"

NOTE

1. CONTRACTOR TO PROVIDE AND INSTALL INSULATION FIRST 8 FEET OF HOT AND COLD WATER OUTLET PIPING FOR NON-RECIRCULATING SERVICE WATER-HEATING SYSTEM.
2. PROPOSED ADDITION, ALTERATION OR IMPROVEMENT REQUIRES ALL NON-COMPLIANT FIXTURES TO BE REPLACED WITH WATER CONSERVING, PLUMBING FIXTURES.
3. WATER SUPPLY AND DRAIN PIPES UNDER ACCESSIBLE LAVATORIES AND SINKS SHALL BE INSULATED OR OTHERWISE BE CONFIGURED TO PROTECT AGAINST CONTACT. PROTECTIONS, INSULATIONS, OF BOTH SHALL COMPLY WITH ASME A112.18.403.3
4. WATER PRESSURE SHOCK ARRESTORS (WATER HAMMERS) SHALL BE INSTALLED AS CLOSE AS POSSIBLE TO QUICK-ACTING VALVES AT THE END OF LONG PIPE OR NEAR BATTERIES OF FIXTURES OR BOTH 609.10
5. ALL EXPOSED GAS PIPING SHALL BE PROTECTED AGAINST CORROSION BY COATING OR WRAPPING, WITH AN INERT MATERIAL APPROVED FOR SUCH APPLICATION 1210.2
6. LAVATORIES IN PUBLIC RESTROOMS HALL HAVE CONTROLS THAT LIMIT THE WATER SUPPLY TEMPERATURE TO 110°F
7. SHOCK ARRESTORS (WATER HAMMERS) SHALL BE INSTALLED AS CLOSE AS POSSIBLE TO QUICK-ACTING VALVES AT THE END OF LONG PIPE OR NEAR BATTERIES OF FIXTURES OR BOTH

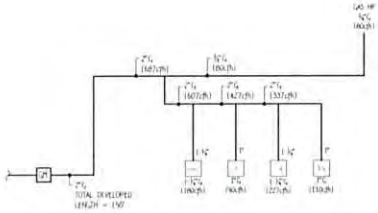
WATER TESTING

UPON COMPLETION OF A SECTION OR OF THE ENTIRE HOT AND COLD WATER SUPPLY SYSTEM, IT SHALL BE TESTED AND PROVED TIGHT UNDER A WATER PRESSURE NOT LESS THAN THE WORKING PRESSURE UNDER WHICH IT IS TO BE USED. THE WATER USED FOR TESTING SHALL BE OBTAINED FROM A POTABLE SOURCE OF SUPPLY. EXCEPT FOR PLASTIC PIPING, A FIFTY LB. AIR PRESSURE SHALL BE PERMITTED TO BE SUBSTITUTED FOR THE WATER TEST. IN EITHER METHOD OF TEST, THE PIPING SHALL WITHSTAND THE TEST WITHOUT LEAKING FOR A PERIOD OF NOT LESS THAN FIFTEEN MINUTES. CPC SECTION 609.4

ALL NEW AND USED POTABLE WATER SYSTEMS SHALL BE DISINFECTED PRIOR TO THE USE ACCORDING TO SECTION 609.9 (1-3) OF THE PLUMBING CODE. CONTRACTOR SHALL PROVIDE A SIGNED WRITTEN DECLARATION TO THE INSPECTOR AT TIME OF INSPECTION THAT POTABLE WATER SYSTEM HAS BEEN DISINFECTED PER SECTION 609.9

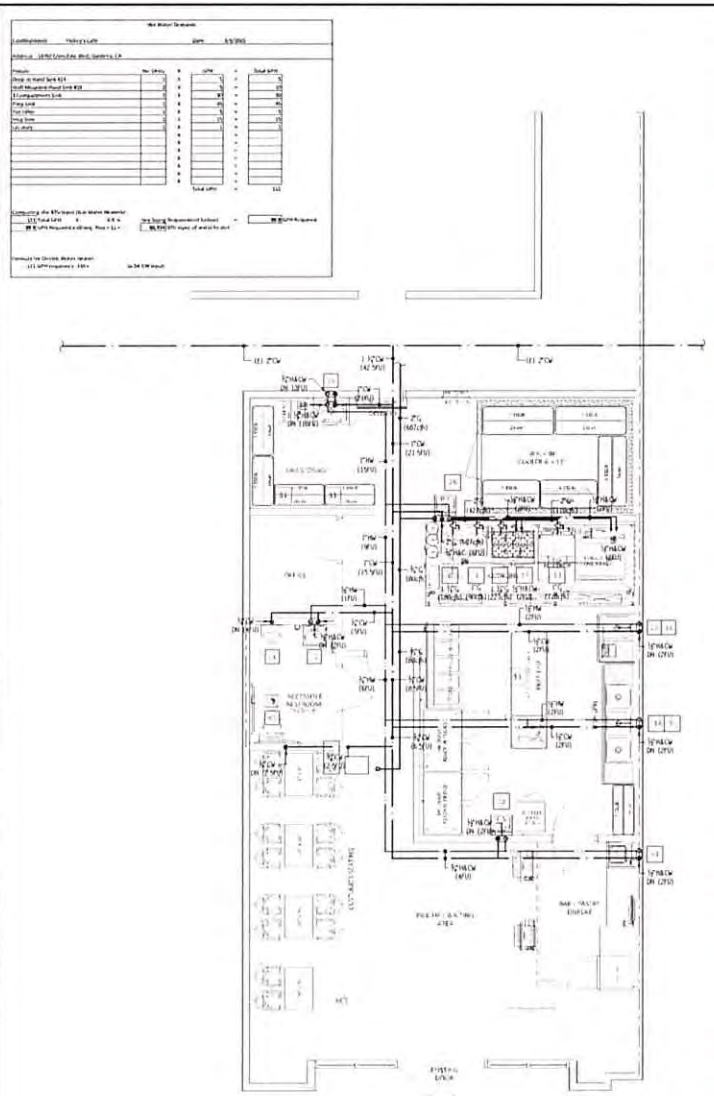
ALL TEST GAUGES USED IN CONDUCTING TEST SHALL BE IN ACCORDANCE WITH SECTION 318.0. CPC SECTION 1213.3 REQUIRED PRESSURE TESTS OF TEN PSI OR LESS SHALL BE PERFORMED WITH GAUGES OF ONE-TENTH OF A POUND INCREMENTATION OR LESS. CPC SECTION 318

NOTES — SCALE: NTS



GAS RISER DIAGRAM — SCALE: 1/4" = 1'-0"

NOT USED — SCALE: NTS



PROPOSED HOT/COLD WATER & GAS PLAN — SCALE: 1/4" = 1'-0"

DARRYL MURRAY INC.
MECHANICAL ENGINEERING
MECHANICAL ● ELECTRICAL ● PLUMBING
3555 N. 3775 W., Cedar City, UT 84721
Tel: 818.355.0225 Fax: 801.277.5655
darryl@mechanicalengineer.com

STAMP

REGISTERED PROFESSIONAL ENGINEER — RAM CHATTAS — No. M 21305 — MECHANICAL — STATE OF CALIFORNIA

DATE SIGNED 03/11/25

OWNER / TENANT

PROJECT TITLE

VICKY'S BUBBLY CAFE

PROJECT ADDRESS

14782 Crenshaw Blvd.
Gardena, CA 90249

REVISIONS

NO	DATE	DESCRIPTION

DRAWN BY: DARRYL MURRAY

CHECKED BY: RG/ML

PRINTED ON: 03/11/2025

PERMIT NO.

TITLE

PLUMBING
HOT & COLD WATER
& GAS PLAN

SHEET #

P3.0

NO OF

STATE OF CALIFORNIA
Domestic Water Heating System
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — MRZ PLB 1

This worksheet is used to demonstrate compliance for nonresidential occupancies with requirements in 110.3, 140.5, 140.9, and 142.1 and work requirements in 141.0 for additions and alterations. For domestic water heating systems using this prescriptive path. For long-term residential and hotel/motel occupancies compliance is demonstrated with requirements in 110.3, 150.0, 160.0 and 170.3(d) and with requirements 140.5 for additions and 140.9 for alterations.

Project Name: Vicky's Cafe		Report Page:	(Page 1 of 6)
Project Address:	14782 Crenshaw Blvd	Date Prepared:	3/11/2025

A. GENERAL INFORMATION

01	Project Location (city)	Gardena	02	Climate Zone	7
03	Occupancy Types Within Project Scope (List all that apply)				

- Office
- Support Areas
- All Other Occupancies

B. PROJECT SCOPE

This sample includes domestic water heating systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive tools outlined in 140.5 / 170.3(a) and 141.0(a)1 / 170.3, or 141.0(b)2h / 170.3 for additions or alterations. Solar water heating systems are documented on the MRZ-SWH compliance document. Combined hydronic water heating systems are documented on the MRZ-WCH compliance document.

01	02	03
My project consists of (check all that apply):	System Type:*	System Components:
☒ New system (DHW system being installed for the first time)	Individual System (serving residential spaces)	☐ Equipment ☒ Distribution ☒ Controls
☐ System Alteration (equipment, distribution or controls)		☐ Equipment ☐ Distribution ☐ Controls

*FOOTNOTE: Note of use water heaters, or other decentral systems, used to serve nonresidential spaces, are considered individual systems.
Dwelling units refers to the hotel/guest rooms and units in a multifamily residential occupancy.
Central Systems serving 2 or more dwelling units are considered "Central Systems" for multifamily occupancies.

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 "SOLE 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 4	Table 5	Table 6	
Yes	Yes	Yes	COMPLIES

D. EXCEPTIONAL CONDITIONS

This table is used ONLY with possibleble comments because of conditions made or data entered in water throughout the form.

Generated Date/Time | Documentation Software: EnergyPro
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance | Report Version: 2022.0.000 | Schema Version: nv.2022.0.014 | Compliance Sh EnergyPro 7.0.0.023-1874 | Report Generated: 2025-03-11 00:49:07

STATE OF CALIFORNIA
Domestic Water Heating System
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — MRZ PLB 1

Project Name: Vicky's Cafe		Report Page:	(Page 2 of 6)
		Date Prepared:	3/11/2025

E. DOMESTIC HOT WATER CONTROLS

This table is used to demonstrate compliance with control requirements in 110.3 for all occupancies. For multifamily residential and hotel/motel occupancies, compliance is also demonstrated with requirements in 140.4(w) / 170.3(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 110.3(a).
02	☐	☐	☒	Systems with capacity > 167,000 Btu/h are equipped with outlet temperature controls per 110.3(b)1 unless covered by California Plumbing Code 613.5.
03	☐	☐	☒	Controls for circulating pumps or electrical heat trace systems are capable of automatically turning off the system per 110.3(b)2, unless systems serve healthcare facility.
04	☐	☐	☒	For recirculation systems serving multiple dwelling units, design includes automatic pump controls per 170.3(d) or 140.4(w)3 for additions.
05	☐	☐	☒	For recirculation systems serving individual dwelling units, design includes thermal on/off controls as specified in Reference Appendix RA4.4.8 per 170.3(d).
06	☐	☐	☒	Limit action at positive shut off shall be provided per 140.4(t) on all newly installed commercial boilers as follows: • Boilers with input capacity >= 2.5 MMBtu/h, in which the boiler is designed to operate with a compressor vent static pressure • Boilers where one stack serves two or more boilers with a total combined input capacity per vent of 2.5 MMBtu/h.
07	☐	☐	☒	Jacket limit action at fire tube boiler motor >= 50 hp shall meet one of the following: • The fan motor shall be driven by a variable speed drive OR • The fan motor shall include controls that limit the fan motor demand to no 30% of the total design wattage at 50% of the design air volume.
08	☐	☐	☒	Newly installed boilers with an input capacity (≥ gas 5 MMBtu/h and a steady state full load combustion efficiency < 90% shall maintain excess (stack gas) oxygen concentrations in the dry volume on a dry basis over firing rates of 20-100%. Combustion air volume shall be controlled with respect to firing rate or flue gas oxygen concentration. Use of a common gas and combustion air vented damper or jack shaft is prohibited.

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STATE OF CALIFORNIA
Domestic Water Heating System
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — MRZ PLB 1

Project Name: Vicky's Cafe		Report Page:	(Page 3 of 6)
		Date Prepared:	3/11/2025

F. ADDITIONAL REMARKS

This table includes comments made by the permit applicant to the Authority Having Jurisdiction.

G. DOMESTIC HOT WATER EQUIPMENT

This table is used to demonstrate compliance with mandatory equipment requirements in 110.3 and 110.9. Compliance with prescriptive requirements in 140.5(a) / 170.3(d) must also be demonstrated and with 140.9 / 170.3 / 140.9 for addition and alteration scopes.

Equipment Schedule: Water Heating Efficiency and Standby Loss

01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
Generic Name	50 Gallon Electric	Exception to 140.5(a) / 170.3(d)2			☐	Low Service Water Heating System or 5MMBtu/yr	Capacity-weighted Average Efficiency %							
Name or Item Tag	Equipment Type	Volume (gal)	Rated Input Capacity (Btu/h)	Rated EF(U) / Energy Factor Rating (EnR)	Rated Efficiency	Minimum Efficiency Required	Efficiency Unit	Designed Standby Loss	Maximum Standby Loss					
All Gallon Electric	Commercial Electric Storage Water Heater	50	12,419	1.0 or EnR = 0.93	0.97	0.96	UEF							

*FOOTNOTE: In systems >= 2MMBtu/h with multiple units, gas water heaters with input capacity > 200,000 Btu/h (may meet 90% Et requirements are all input capacity-weighted average.

Water Heating Equipment All Occupancies

	Yes	No	Not Applicable	Requirement
13	☐	☐	☒	Certified storage unit insulation shall have thermal + External unit SA ON (external R=8.1 ft² Labels required per 110.9(d))
14	☐	☐	☒	New state buildings 50% of energy for service water heating from site solar energy or recovered energy per 110.3(c)5
20	☐	☐	☒	Installation valves for thermosiphon water heater and input rating <= 0.1 GJ/yr or 2.1 W fan been specified per 110.3(c)6
21	☐	☐	☒	Where buildings > 25,000 ft² and < 4 stories must install a heat pump water heating system per 140.9(c)5. Water Heating systems serving an industrial or extreme use system may be an exceptional electric water heater.

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STATE OF CALIFORNIA
Domestic Water Heating System
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — MRZ PLB 1

Project Name: Vicky's Cafe		Report Page:	(Page 4 of 6)
		Date Prepared:	3/11/2025

H. DOMESTIC HOT WATER DISTRIBUTION SYSTEM

This table is used to demonstrate compliance for nonresidential occupancies with distribution requirements in 120.3 and 140.5. For multifamily and hotel/motel occupancies compliance is demonstrated with requirements 150.0(j), 160.4, 170.3(d).

Mandatory	Pipe Insulation All Occupancies	
13	☐	For systems serving dwelling units, pipe insulation must meet the minimum requirements in Table 160.4-A (see below) except: • Piping that penetrates framing members shall not be required to have pipe insulation for the distance of the framing penetration. Piping that parallels metal framing shall use grommets, plugs, wrapping or other insulating material to ensure that no contact is made with the metal framing. Insulation shall also separate against all framing members. • Piping installed in interior or exterior walls shall not be required to have pipe insulation if all of the requirements are met for compliance with Cavity Insulation Installation (QII) as specified in the Reference Residential Appendix RA3.5. • Piping surrounded with a minimum of 1 inch of wall insulation, 1 inches of crawlspace insulation, or 4 inches of attic insulation, shall not be required to have pipe insulation.
14	☒	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 8 ft of hot and cold outlet piping, including between storage tank and heat trap, for a nonrecirculating storage system • Pipes that are externally heated
15	☒	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(b) / 160.4(f). Pipe insulation buried below grade must be installed in a water proof and non-compressible casing or sleeve.

TABLE 120.3-A / 160.4-A PIPE INSULATION THICKNESS

Fluid Temperature Range (°F)	Conductivity Range (Btu-in per hour per ft² per °F)	Insulation Mean Rating Temp (°F)	Minimum Pipe Diameter (in)			
			< 1	1 to < 3.5	3.5 to < 8	8 to < 14 Multifamily & Hotel/Motel
			Minimum Insulation Required			
105-141	0.21 - 0.28	100	1.0 in or 9 ft²	1.1 in or 9.12	1.5 in or 9.12	2.0 in or 9.16

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STATE OF CALIFORNIA
Domestic Water Heating System
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — MRZ PLB 1

Project Name: Vicky's Cafe		Report Page:	(Page 5 of 6)
		Date Prepared:	3/11/2025

I. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table Z Additional Remarks. These documents must be provided to the Building Inspector during construction and can be found online.

Form/Title
MRZ PLB 2 - Must be submitted for all buildings

J. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no forms required for this project.

K. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

There are no forms required for this project.

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STATE OF CALIFORNIA
Domestic Water Heating System
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — MRZ PLB 1

Project Name: Vicky's Cafe		Report Page:	(Page 6 of 6)
Project Address:	14782 Crenshaw Blvd	Date Prepared:	3/11/2025

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Darryl Murray	Documentation Author Signature:
Company: Darryl Murray Inc.	Signature Date: 2025-03-11
Address: 1355 N 17th St	City/State/Zip: Lake Elsinore, CA 92530
Phone: (951) 313-0225	Email: darryl@darrylmurray.com

RESPONSIBLE PERSON'S DECLARATION STATEMENT

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

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are in accordance 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.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building construction, insert for the field, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be in place with the final documentation of the building.

Responsible Designer Name: Rae Gharfeh	Responsible Designer Signature:
Company: Darryl Murray Inc.	Date Signed: 2025-03-11
Address: 1355 N 17th St	License: 621320
City/State/Zip: Cedar City, UT 84721	Phone: 818-353-2225

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DARRYL MURRAY INC
MURRAY ENGINEERING & DESIGN
VICTORVILLE, CA ● ELECTRICAL ● PLUMBING
1355 N. 17th St. - Cedar City, UT 84721
Tel: 818-353-2225 - Fax: 951-313-0225
darryl@darrylmurray.com

STAMP

REGISTERED PROFESSIONAL ENGINEER
RAY GHAFFARI
No. M 21305
EXP. 06-30-25

DATE SIGNED 03/11/25

OWNER / TENANT

PROJECT TITLE
VICKY'S BUBBLY CAFE

PROJECT ADDRESS
14782 Crenshaw Blvd.
Gardena, CA 90249

REVISIONS

NO	DATE	DESCRIPTION

DRAWN BY: DARRYL MURRAY
CHECKED BY: RG/ML
PRINTED ON: 03/11/2025
PERMIT NO:

TITLE
PLUMBING TITLE 24 ENERGY COMPLIANCE FORMS

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