1130 BROADWAY AVE.,

CHULAVISTA, CA 91911

### DRAWING INDEX PROJECT DIRECTORY G202 EXISTING RESTROOM ACCESSIBILITY FEATURES COSTCO WHOLESALE G203 G204 G205 CAL GREEN 999 LAKE DRIVE CAL GREEN ISSAQUAH, WA 98027 CAL GREEN T: 425.313.8100 MG2 CORPORATION OVERALL CONCEPT FLOOR PLAN 3333 MICHELSON DR. HEARING AID CENTER ENLARGED PLANS, ELEVATION, AND DETAILS SUITE 100 ROOM FINISH SCHEDULE AND TYPICAL INTERIOR DETAILS IRVINE, CA 92612 T: 949.705.0773 E: MARIBEL.ABRICA@MG2.COM PROJECT MANAGER: MARIBEL ABRICA S1.1 GENERAL NOTE AND PARTIAL CEILING PLAN MECHANICAL AND PLUMBING STRUCTURAL ENGINEER MP-8.1 YITUE 24 9725 THIRD AVE. N.E. MALL MECHANICAL AND PLUMBING PLANS, NOTES, AND LEGENDS MECHANICAL AND PLUMBING SCHEDULES, AND DETAILS SEATTLE, WA 98115 T: 206.973.5423 E: MINGT@ENGINEERSNW.COM CONTACT NAME: MING TAN

## DEFERRED SUBMITTAL

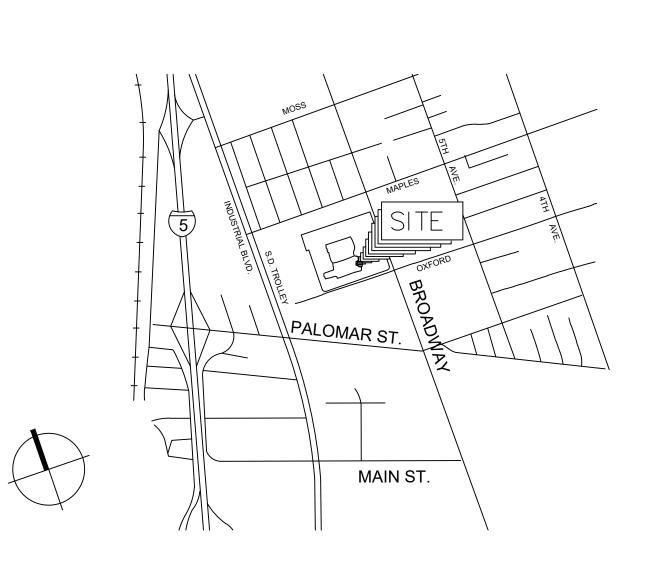
SUBMITTAL DOCUMENTS FOR DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED TO THE ARCHITECT OR ENGINEER OF RECORD WHO SHALL REVIEW AND FORWARD THEM TO THE BUILDING OFFICIAL WITH A NOTATION INDICATING THAT THE DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN REVIEWED AND THAT THEY HAVE BEEN FOUND TO BE IN GENERAL CONFORMANCE WITH THE DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THE BUILDING OFFICIAL HAS APPROVED THE SUBMITTAL

PARTIAL FLOOR PLAN, ENLARGED POWER PLAN, PANEL SCHEDULES, LEGEND AND NOTES

FIRE SPRINKLER SYSTEM AND ALARM SYSTEM SMOKE ALARM SYSTEM

FIRE SPRINKLER SHOP DRAWINGS, FIRE SPRINKLER CONTRACTOR SHALL PREPARE AND SUBMIT PLANS TO THE JURISDICTION FOR REVIEW AND APPROVAL PRIOR TO ANY FIRE SPRINKLER WORK COMMENCING. ALTERATIONS TO THE SPRINKLER SYSTEM REQUIRED, UNDER A SEPARATE SUBMITTAL AND PERMIT

## VICINITY MAP



## CODE ANALYSIS 2019 CALIFORNIA BUILDING CODE, VOLUMES 1 AND 2

2019 CALIFORNIA MECHANICAL CODE 2019 CALIFORNIA PLUMBING CODE 2019 CALIFORNIA EXISTING BUILDING CODE 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN) 2019 CALIFORNIA ENERGY CODE 2019 CALIFORNIA EXISTING BUILDING CODE 2019 CALIFORNIA ADMINISTRATIVE CODE PART 1 AND PART 2

OWNER

**ARCHITECT** 

MECHANICAL AND PLUMBING

**ELECTRICAL ENGINEER** 

ZONING DESIGNATION: C-C

AREA OF REMODEL: 314 S.F.

ASSESSOR'S PARCEL NUMBER: 618-200-61-00

T.E., INC.

SUITE 200

830 N. RIVERSIDE DRIVE

830 N. RIVERSIDE DRIVE

CONTACT NAME: ANN TIEU

PROJECT INFORMATION

PROJECT DESCRIPTION

RENTON, WA 98055

T: 425.970.3753.

F: 425.970.3756

**CONTACT NAME: JAMES FARRIS** 

RENTON, WA 98055

T: 425.970.3753

F: 425.970.3756

T.E., INC.

SUITE 200

## FIRE GENERAL NOTES

- A FIRE LIFE SAFETY INSPECTION IS REQUIRED PRIOR TO CONSTRUCTION FINAL. REQUEST INSPECTION 48-HOURS IN A FIVE-YEAR CERTIFICATE INSPECTION REPORT OF THE FIRE SPRINKLER SYSTEM, BY A LICENSED C16 FIRE

ARCHITECTURAL SYMBOLS

ITEM SOIC OR SIC

AUTOMATIC SPRINKLERS SHALL BE INSTALLED IN OR UNDER COVERED KIOSKS, DISPLAYS, BOOTHS, CONCESSION

## ARCHITECTURAL ABBREVIATIONS

W/O

WOOD

### **NEW CONSTRUCTION - SHOWN SOLID** ITEM SIO OR NIC

CUT LINE - DEFINES THE

CUT LINE - DEFINES THE

SHEET WHERE DRAWN

INTERIOR ELEVATION DETAIL IDENTIFICATION —SHEET WHERE DRAWN

WALL TYPES

METAL INSULATED PANELS

FREEZER / COOLER WALLS (SIO)

3 5/8" METAL STUDS UNO AT 16" OC WITH GWB PAINTED EACH FACE UNO PER SCHEDULE

WOOD BLOCKING WOOD MEMBER

EXISTING CONSTRUCTION TO REMAIN SHOWN LIGHT BACKGROUND

FTOF EXISTING CONSTRUCTION TO BE REMOVED - SHOWN DASHED === F====

ACOUSTICAL TILE

HEATING, VENTILATION, AND AIR CONDITIONING INTERNATIONAL BUILDING CODE NOT TO SCALE ON CENTER O TO O OUT TO OUT PERP PERPENDICULAR PLYWD PLYWOOD RADIUS

HORIZONTAL

REFLECTED CEILING PLAN ROOF DRAIN RAIN LEADER REFRIG REFRIGERATION SUPPLIED AND INSTALLED BY OWNER SUPPLIED AND INSTALLED BY VENDOR SUPPLIED BY OWNER INSTALLED BY CONTRACTOR

SERVICE SINK, SANITARY SEWER

STAINLESS STEEL

SUPPLIED BY OWNER INSTALLED BY VENDOR

FIBER REINFORCED PLASTIC PANEL(S)

ABOVE FINISHED FLOOR (SLAB) BELOW FINISHED FLOOR (SLAB)

CONCRETE MASONRY UNIT

FIRE RETARDANT TREATED

GYPSUM WALLBOARD, GYPSUM

FINISH TO FINISH FACE

GENERAL CONTRACTOR

**CENTER LINE** 

CONCRET

FACTORY FINISH

CONC

## STEEL STRUCT STRUCTURE, STRUCTURAL

TOP OF MASONRY TOP OF WALL TOP AND BOTTOM UNLESS NOTED OTHERWISE WITH WITHOUT

LICENSED STRUCTURAL ENGINEER. PROVIDE DRAWINGS FOR STRUCTURAL FOUNDATIONS, STRUCTURES, AND/OR TRENCHING, IT IS THE RESPONSIBILITY OF 2. ALL SYSTEMS AND SERVICES ARE TO BE LEFT OPERATIONAL PRIOR TO THE END OF EACH WORKDAY.

THE PHASING INDICATED ON THE DRAWING IS THE OWNER'S PREFERRED OPERATIONAL SEQUENCES. THE CONTRACTOR SHALL CONFIRM THE OPERATIONAL PHASING WITH THE OWNER PRIOR TO STARTING CONSTRUCTION THE PHASING SHOWN IS NOT INTENDED TO REPRESENT OR DICTATE CONSTRUCTION PHASING, MEANS, METHODS OR

THE OPERATIONAL PHASING.

PROVIDE TEMPORARY UTILITIES AS REQUIRED DURING PHASING. WHEN THE WORK INCLUDES DEMOLITION OF OR TEMPORARILY COVERING OF THE EXISTING EXTERIOR SIGNAGE, THE ILLUMINATION FOR THE TEMPORARY SIGN. CONFIRM LOCATIONS WITH THE OWNER.

## PROJECT GENERAL NOTES

THESE GENERAL NOTES APPLY TO THE ENTIRE PROJECT AND APPLY TO ALL TRADES.

IS RESPONSIBLE FOR VERIFYING INFORMATION SHOWN PRIOR TO STARTING THE WORK.

DRAWINGS HAVE BEEN PREPARED ON AN ORIGINAL SHEET SIZE OF 30X42-INCHES. RECORDS. THE ARCHITECT BEARS NO RESPONSIBILITY FOR THE ACCURACY OF INFORMATION SHOWN. THE CONTRACTOR

BE RESPONSIBLE FOR REPAIRING ANY CONTRACTOR-CAUSED DAMAGE TO THE UTILITIES. SUCH REPAIRS SHALL BE DONE

DO NOT SCALE THE DRAWINGS TO OBTAIN DIMENSIONS. WRITTEN DIMENSIONS GOVERN. USE ACTUAL FIELD MEASUREMENTS. DIMENSIONS ARE TO/FROM THE:

a. CENTERLINE OF INTERIOR COLUMNS. GRID LINES ADJACENT TO THE EXTERIOR WALL (FACE OF THE COLUMN CLOSEST TO THE EXTERIOR WALL IS THE GRID

c. EDGE OR CENTERLINE OF OPENINGS AS INDICATED. d. FACE OF STUDS.

ALL HEIGHTS ARE DIMENSIONED FROM THE TOP OF THE SLAB (ALSO NOTED AS FINISHED FLOOR OR INDICATED BY ALL DIMENSIONS NOTED "CLEAR" SHALL BE MAINTAINED AND SHALL ALLOW FOR THE THICKNESS OF ALL FINISHES

VERIFY ALL DIMENSIONS OF EXISTING CONDITIONS. NEITHER THE ARCHITECT NOR HIS CONSULTANTS ARE RESPONSIBLE. FOR THE ACCURACY OF THESE DIMENSIONS. IF EXISTING CONDITIONS OR DIMENSIONS ARE NOT AS SHOWN, IMMEDIATELY NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.

THE CONTRACTOR SHALL CONSULT DRAWINGS OF ALL TRADES FOR OPENINGS THROUGH SLABS, WALLS, CEILINGS AND

ALL JOINTS ARE TO BE TIGHT, STRAIGHT, EVEN, AND SMOOTH.

FINISHES. COMPLY WITH MANUFACTURER'S INSTALLATION REQUIREMENTS.

OWNER. ENSURE UNINTERRUPTED SECURITY AND PHONE SYSTEMS OPERATION. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR JOBSITE SAFETY AND SHALL PROVIDE ALL NECESSARY BARRICADES

SUCH AS IMAGING, INDUCED CURRENT METAL DETECTOR, ETC. AS RECOMMENDED BY THE POST-TENSIONING INSTITUTE. IF ANY PROPOSED PENETRATION IS IN CONFLICT WITH TENDONS, ETC., IMMEDIATELY NOTIFY THE ARCHITECT PRIOR TO

THE BUILDING WILL BE OCCUPIED AND IN FULL USE BY THE OWNER DURING CONSTRUCTION. CONSTRUCTION THAT MAY AFFECT THE PUBLIC SHALL BE DONE DURING OFF-HOURS FIRE SPRINKLER, ETC. ITEMS NECESSARY TO COMPLETE THE DEMOLITION WORK. THE CONTRACTOR IS TO REMOVE ALL

PROVIDE AND MAINTAIN EGRESS PATHS THROUGHOUT CONSTRUCTION INCLUDING, BUT NOT LIMITED TO, EXIT SIGNS,

WHERE REQUIRED, TRIM EXISTING WOOD DOORS AS NECESSARY TO CLEAR FLOORING. SEAL CUT EDGES.

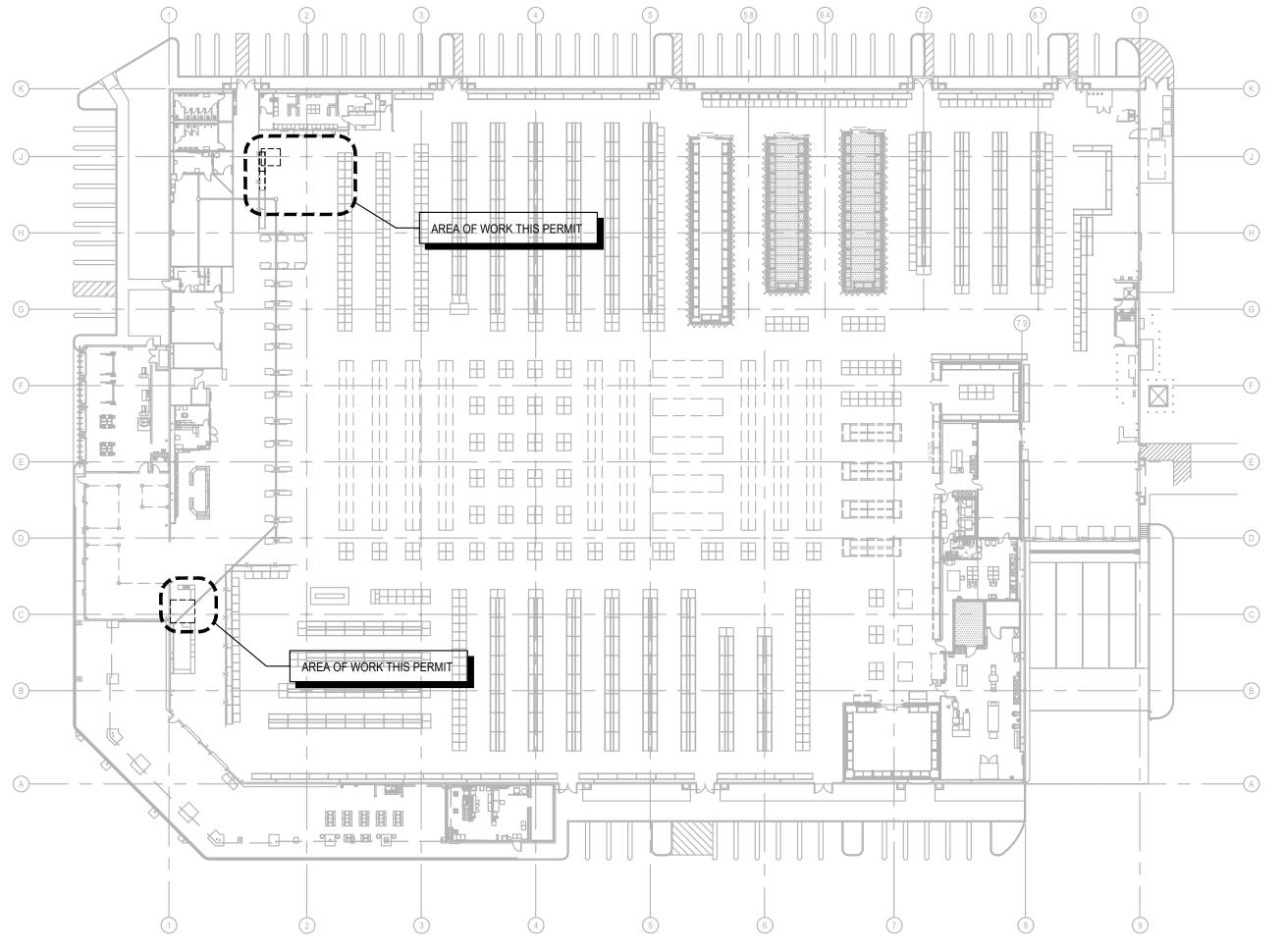
EXISTING STRUCTURAL MEMBERS (BEAMS, TRUSSES, JOIST, ETC.) WITHOUT WRITTEN APPROVAL OF A LICENSEL STRUCTURAL ENGINEER. 0. DO NOT CUT OR DRILL ANY STRUCTURAL MEMBER (PARTICULARLY ROOF JOIST) WITHOUT WRITTEN APPROVAL OF A SHORING OF STRUCTURAL FOUNDATIONS, STRUCTURES, AND/OR TRENCHING REQUIRED TO COMPLETE THE WORK DESCRIBED IN THE DOCUMENTS IS CONSIDERED A MEANS. METHOD OR TECHNIQUE AND IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. IF A REGULATORY AGENCY REQUIRES A LICENSED ENGINEER TO SUPERVISE. APPROVE. AND/OR

19. UNLESS SHOWN ON THE DRAWINGS OTHERWISE, DO NOT SUPPORT OR SUSPEND ITEMS, EQUIPMENT, HANGERS, ETC. FROM

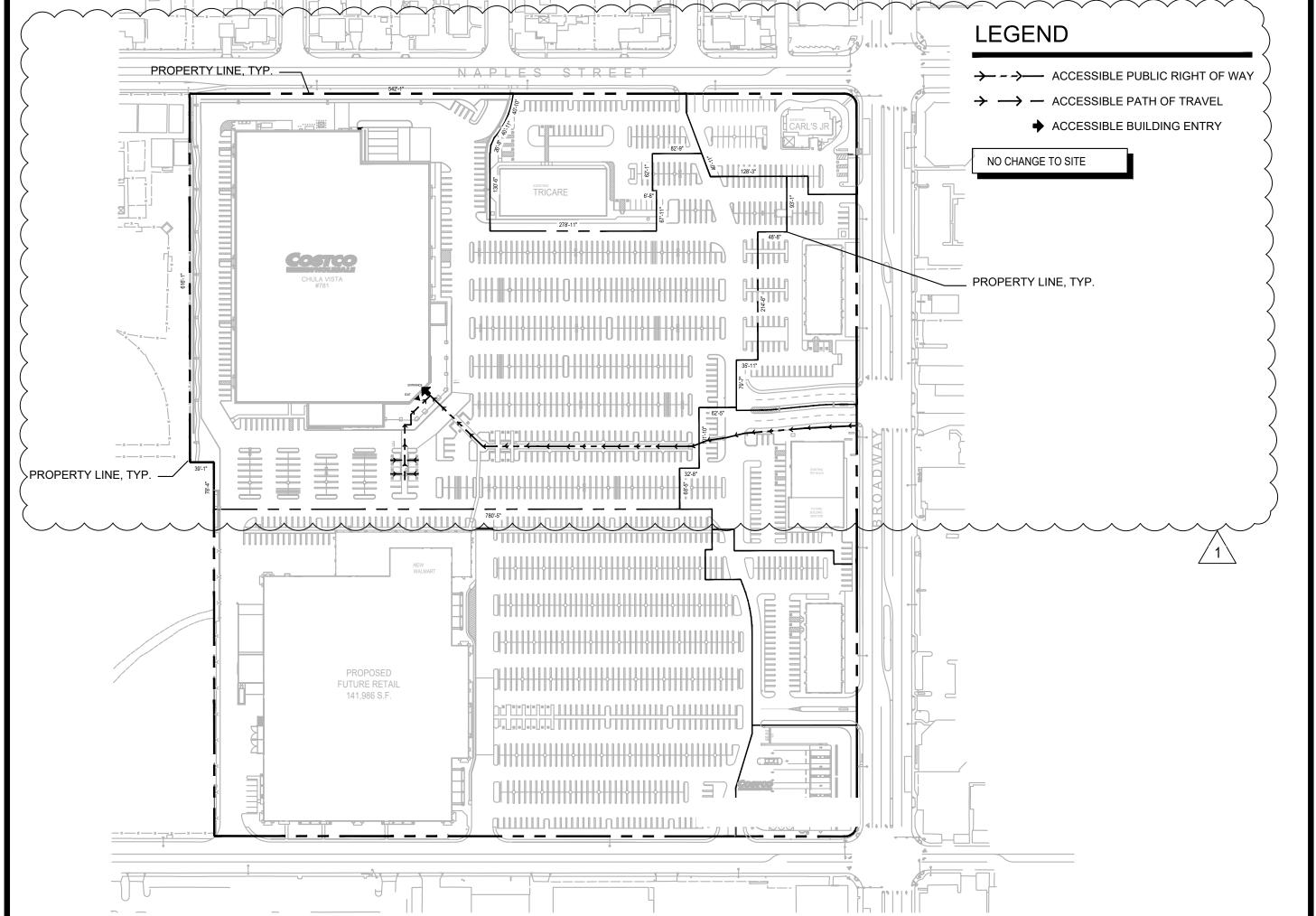
THE CONTRACTOR TO CONTRACT WITH THE ENGINEER DIRECTLY AND THE COST SHALL BE INCLUDED IN THE BASE BID. 23. THE CONTRACTOR SHALL REMOVE ALL RUBBLE AND DEBRIS FROM THE JOBSITE DAILY AND LEAVE THE BUILDING AND GROUNDS BROOM CLEAN UPON COMPLETION OF THE WORK.

THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL CONSTRUCTION PHASING SO AS NOT TO IMPACT THE OWNER'S REMOVE WALLS, BOLLARDS, PLUMBING, ELECTRICAL, ETC. AND CAP UTILITIES BELOW THE FLOOR AS REQUIRED TO ACHIEVE

CONTRACTOR SHALL PROVIDE A TEMPORARY "COSTCO WHOLESALE" SIGNAGE (OF SIZE COMPARABLE TO EXISTING SIGN) UNTIL PERMANENT SIGN IS INSTALLED. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS. PROVIDE



### EXISTING FLOOR PLAN



EXISTING SITE PLAN

SCALE: NOT TO SCALE

CHULA VISTA, CA

1130 BROADWAY AVE. CHULA VISTA, CA 91911

COSTCO WHOLESALE CORPORATION

> 999 LAKE DRIVE ISSAQUAH, WA 98027 T: 425.313.8100 www.costco.com



PERMIT SET

**KEY PLAN** 

NATHAN D. MENARD, ARCHITECT

MENARD

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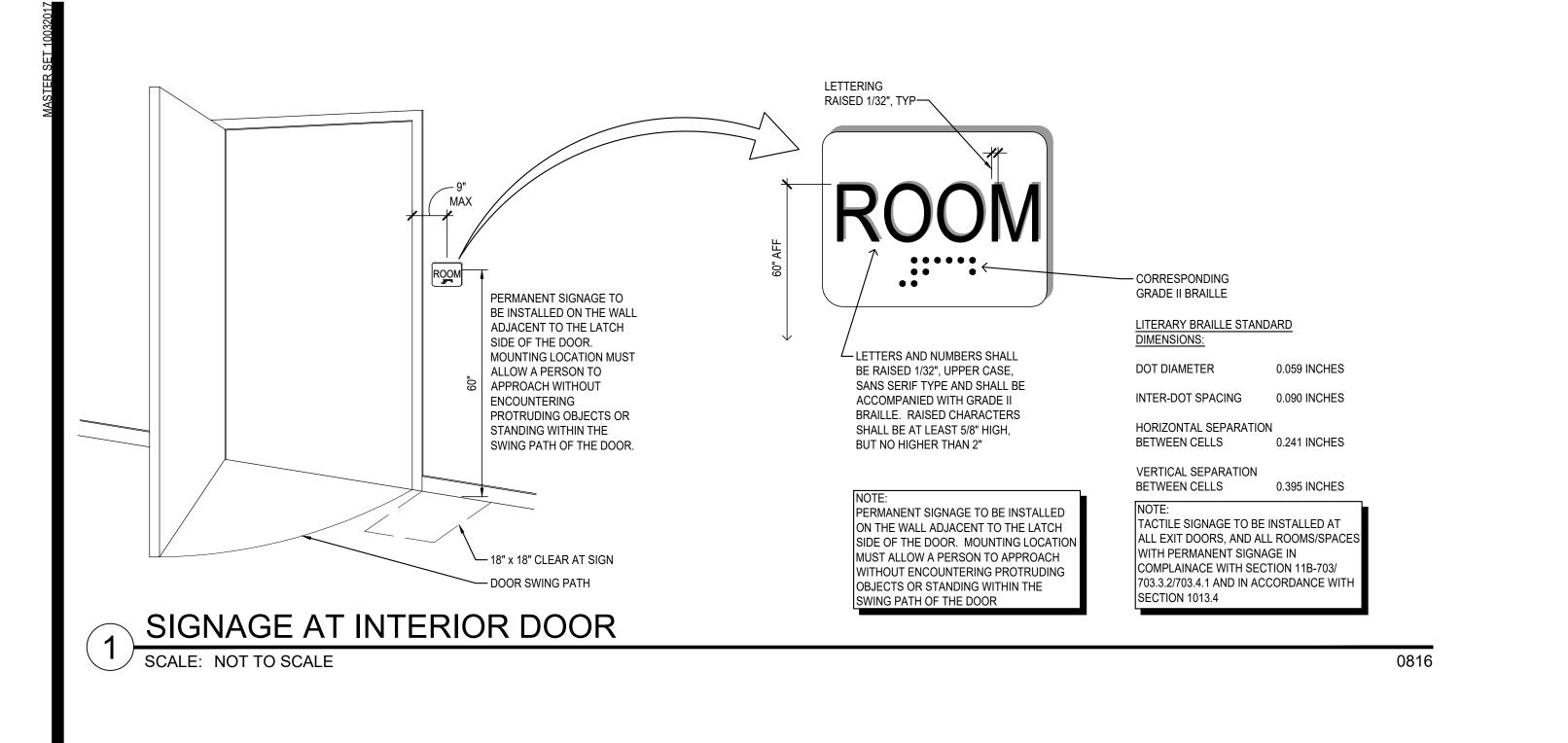
DATE DESCRIPTION 08/01/22 PERMIT ISSUE 09/30/22 PLAN CHECK COMMENT #

3 | 01/23/23 PLAN CHECK COMMENT #3

99-5890-20 PM: ARTURO REINA DRAWN: MH

TITLE SHEET

TS101



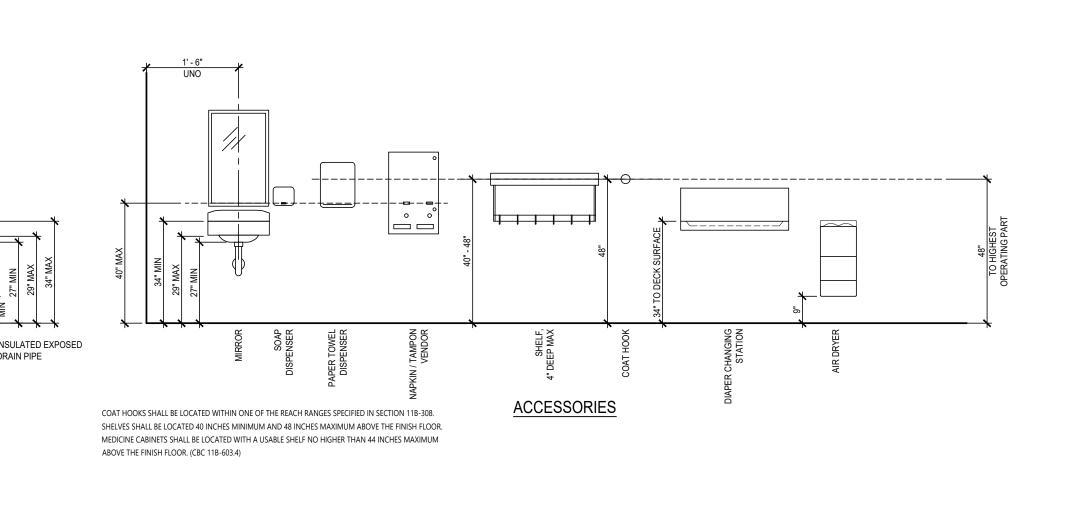


COSTCO WHOLESALE CORPORATION 999 LAKE DRIVE ISSAQUAH, WA 98027

T: 425.313.8100 www.costco.com



PERMIT SET



NO CHANGE TO EXISTING

RESTROOMS. SHOWN AS REFERENCE



FLUSH VALVE ON WIDE SIDE

\_\_\_ GRAB BAR - 36"

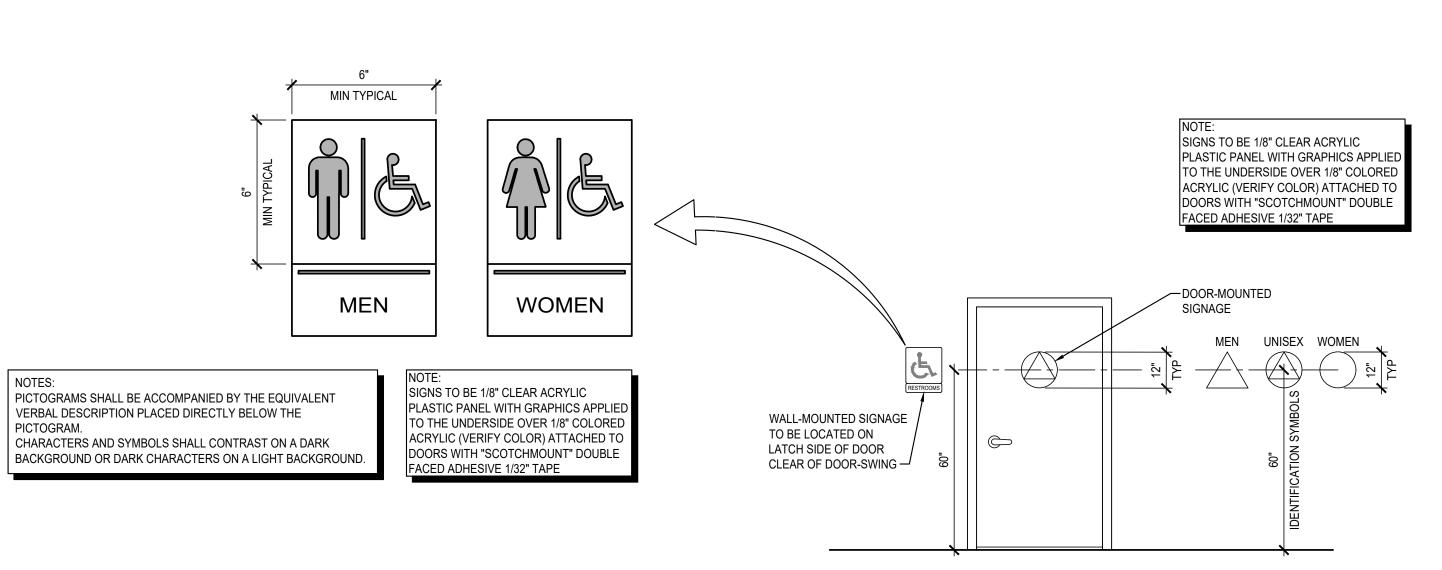
PARTITION / URINAL SCREEN

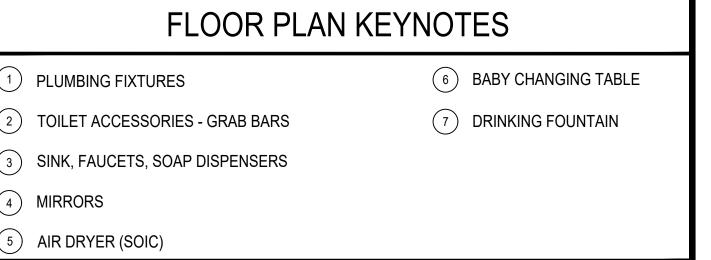
ACCESSIBLE STALLS TO BE MOUNTED
BELOW GRAB BAR; IN AMBULATORY

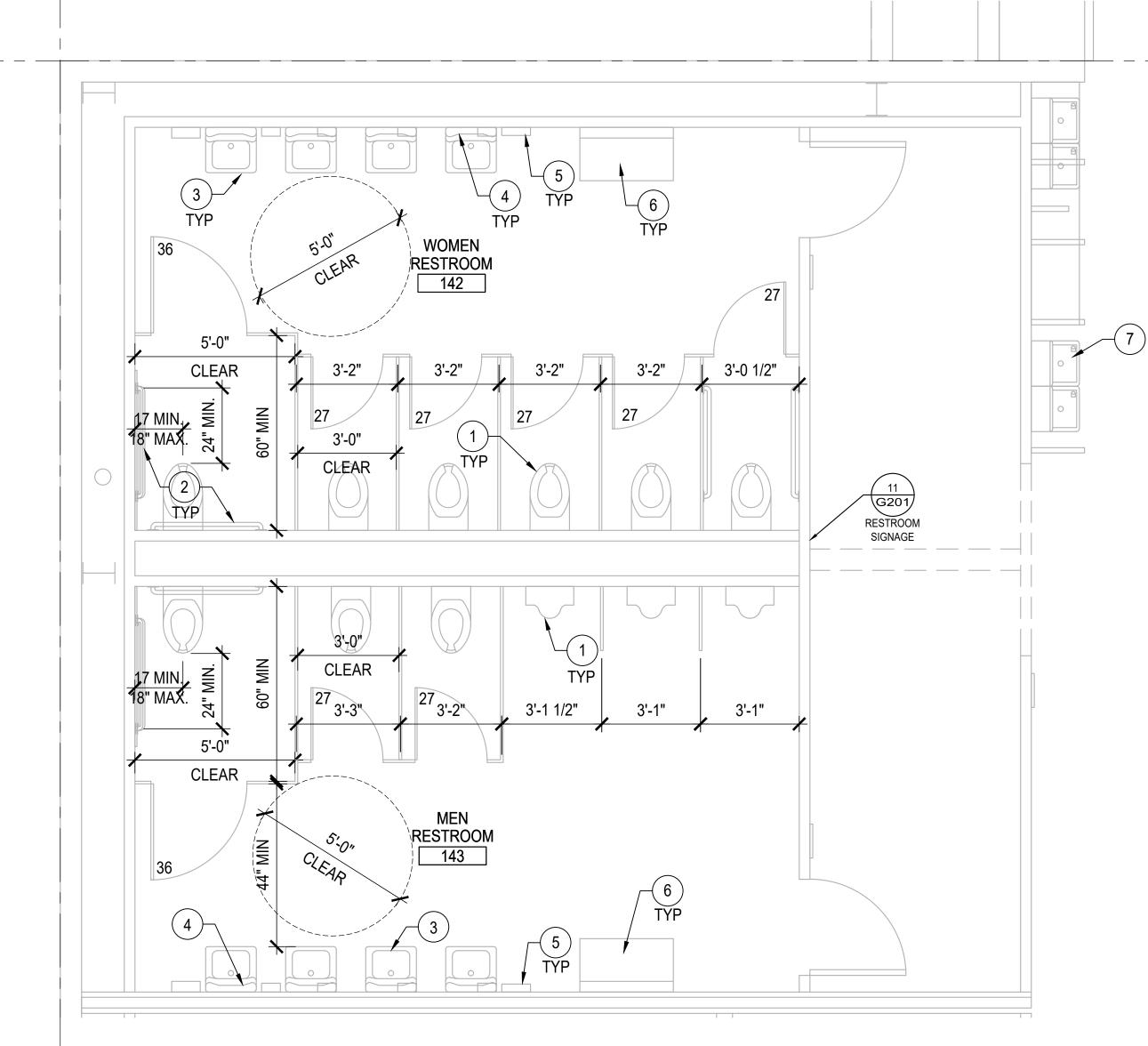
WALL-MOUNTED

FLOOR-MOUNTED

OPPOSITE TOILET PAPER DISPENSER







**TYPICAL** 

DRINKING FOUNTAIN CLEARANCES

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

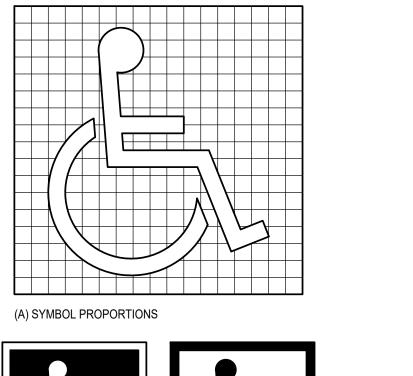


PAPER DISPENSER, LOCATE BELOW GRAB BAR, 19" MIN AFF

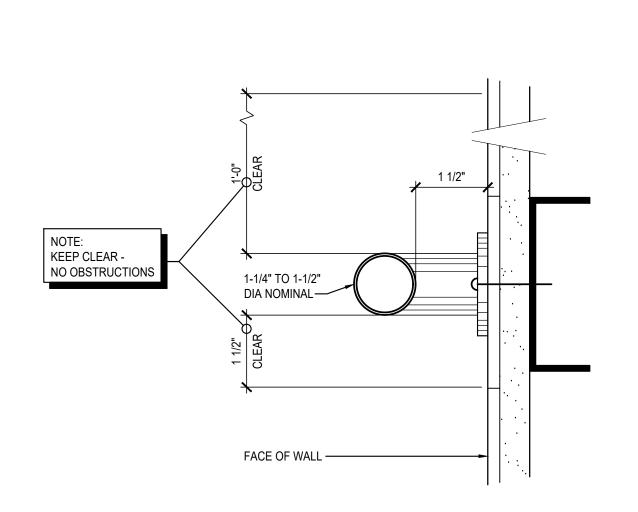
NAPKIN/TAMPON

DISPOSAL, SHOWN WITH LID OPEN —









INTERNATIONAL **ACCESSIBILITY SYMBOL** 16 SCALE: 1" = 1"

GRAB BAR

EXISTING RESTROOM 19 SCALE: 3/8" = 1'-0"

**KEY PLAN** 

NATHAN D. MENARD, ARCHITECT



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1 | 09/30/22 | PLAN CHECK COMMENT #1

PM: ARTURO REINA DRAWN: JL

EXISTING RESTROOM ACCESSIBILITY FEATURES G202



# 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE NONRESIDENTIAL MANDATORY MEASURES, SHEET 1 (January 2020, Includes August 2019 Supplement)

Y N/A RESPON. PARTY	Y N/A RESPON. PARTY	Y N/A RESPON. PARTY
CHAPTER 3 GREEN BUILDING SECTION 301 GENERAL	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.	1. Where there is insufficient electrical supply. 2. Where there is evidence suitable to the local enforcing agency substantiating that additional local utility infrastructure design requirements, directly related to the
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,	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).	implementation of Section 5.106.5.3, may adversely impact the construction cost of the project.  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: The surface parking area covered by solar photovoltaic shade structures, or shade
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	The NPDES permits require postconstruction runoff (post-project hydrology) to match the preconstruction runoff (pre-project hydrology) with the installation of postconstruction stormwater management measures. The NPDES	structures, with roofing materials that comply with Table A5.106.11.2.2 in Appendix A5, are not included in the total area calculations.  0-9  0  5.106.12.2 Landscape areas. Shade tress plantings, minimum #10 container size or equal shall be installed to
of individual sections of Chapter 5 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	permits emphasize runoff reduction through on-site stormwater use, interception, evapotranspiration, and infiltration through nonstructural controls, such as Low Impact Development (LID) practices, and conversation 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.	provide shade of 20% of the landscape area within 15 years.  26-50  Exceptions: Playfields for organized sport activity are not included in the total area calculation.
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	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.	51-75 4 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.
banner will be used.  301.3.1 Nonresidential additions and alterations that cause updates to plumbing fixtures only:	5.106.4 BICYCLE PARKING. For buildings within the authority of California Building Standards Commission as	Exceptions: Walks, hardscape areas covered by solar photovoltaic shade structures, and hardscape areas covered by shade structures with roofing materials that comply with Table A5.106.11.2.2 in Appendix A5, are not included in the total area calculation.
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 seg. for definitions,	specified in Section 103, 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	201 AND OVER 6% of total <sup>1</sup> 1. Calculation for spaces shall be rounded up to the nearest whole number.  DIVISION 5.2 ENERGY EFFICIENCY
types of commercial real property affected, effective dates, circumstances necessitating replacement of noncompliant plumbing fixtures, and duties and responsibilities for ensuring compliance.	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	5.106.5.3.4 [N] Identification. The service panel or subpanel(s) circuit directory shall identify the reserved overcurrent protective device space(s) for future EV charging as "EV CAPABLE". The raceway termination location shall be permanently and visibly marked as "EV CAPABLE".  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, the California Energy Commission will continue to adopt mandatory building standards.
<b>301.3.2 Waste Diversion.</b> The requirements of Section 5.408 shall be required for additions and alterations whenever a permit is required for work.	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 visitor vehicular parking spaces.	5.106.5.3.5 [N] Future charging spaces qualify as designated parking as described in Section 5.106.5.2 Designated parking for clean air vehicles.  DIVISION 5.3 WATER EFFICIENCY AND CONSERVATION SECTION 5.301 GENERAL
301.4 PUBLIC SCHOOLS AND COMMUNITY COLLEGES. (see GBSC) 301.5 HEALTH FACILITIES. (see GBSC)  SECTION 302 MIXED OCCUPANCY BUILDINGS	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	5.106.8 LIGHT POLLUTION REDUCTION. [N].I Outdoor lighting systems shall be designed and installed to comply
302.1 MIXED OCCUPANCY BUILDINGS. In mixed occupancy buildings, each portion of a building	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,	with the following:  1. The minimum requirements in the California Energy Code for Lighting Zones 0-4 as defined in Chapter 10,  SECTION 5.302 DEFINITIONS  5.302.1 Definitions. The following terms are defined in Chapter 2 (and are included here for reference)
shall comply with the specific green building measures applicable to each specific occupancy.  SECTION 303 PHASED PROJECTS	provide secure bicycle parking for 5 percent of the tenant vehicular parking spaces being added, with a minimum of one bicycle parking facility.	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  EVAPOTRANSPIRATION ADJUSTMENT FACTOR (ETAF) [DSA-SS]. An adjustment factor when applied to reference evapotranspiration that adjusts for plant factors and irrigation efficiency, which ae two major influences on the amount of water that needs to be applied to the landscape.
303.1 PHASED PROJECTS. For shell buildings and others constructed for future tenant improvements, only those code measures relevant to the building components and systems considered to be new	<ul> <li>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.</li> <li>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</li> </ul>	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.  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.
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	be convenient from the street and shall meet one of the following:  1. Covered, lockable enclosures with permanently anchored racks for bicycles;	Exceptions: [N]  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.  1. Luminaires that qualify as exceptions in Section 140.7 of the California Energy Code.  2. Emergency lighting.  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
Section 301.3 non-residential additions and alterations.  ABBREVIATION DEFINITIONS: HCD Department of Housing and Community Development	Lockable bicycle rooms with permanently anchored racks; or     Lockable, permanently anchored bicycle lockers.  Note: Additional information on recommended bicycle accommodations may be obtained from	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 101.8 5. Alternate materials, designs and methods of construction. 6. 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
BSC California Building Standards Commission DSA-SS Division of the State Architect, Structural Safety OSHPD Office of Statewide Health Planning and Development	Sacramento Area Bicycle Advocates.  5.106.4.2 Bicycle parking. [DSA-SS] For public schools and community colleges, comply with Sections	Note: [N] 1. See also California Building Code, Chapter 12, Section 1205.6 for college campus lighting requirements for parking facilities and walkways.  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
LR Low Rise HR High Rise AA Additions and Alterations	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.	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. 3. Refer to the California Building Code for requirements for additions and alterations.    Compliance Forms, Worksheets and Reference Material) for IES TM-15-11 Table 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.
CHAPTER 5	5.106.4.2.2 Staff bicycle parking. Provide permanent, secure bicycle parking conveniently accessed with a minimum of two staff 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:	TABLE 5.106.8 [N] MAXIMUM ALLOWABLE BACKLIGHT, UPLIGHT  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
NONRESIDENTIAL MANDATORY MEASURES  DIVISION 5.1 PLANNING AND DESIGN	Covered, lockable enclosures with permanently anchored racks for bicycles;     Lockable bicycle rooms with permanently anchored racks; or     Lockable, permanently anchored bicycle lockers.	AND GLARE (BUG) RATINGS 1,2  as effective as the MWELO.  POTABLE WATER. Water that is drinkable and meets the U.S. Environmental Protection Agency (EPA) Drinking
SECTION 5.101 GENERAL 5.101.1 SCOPE	5.106.5.2 DESIGNATED PARKING FOR CLEAN AIR VEHICLES. In new projects or additions or alterations that add 10 or more vehicular parking spaces, provide designated parking for any combination of low-emitting,	ALLOWABLE RATING ZONE LZ0 ZONE LZ1 ZONE LZ2 ZONE LZ3 ZONE LZ3 ZONE LZ4  Water Standards. See definition in the California Plumbing Code, Part 5.  POTABLE WATER. [HCD] Water that is satisfactory for drinking, culinary, and domestic puroses, and meets the U.S.
The provisions of this chapter outline planning, design and development methods that include environmentally responsible site selection, building design, building siting and development to protect, restore and enhance the environmental quality of the site and respect the integrity of adjacent properties.	fuel-efficient and carpool/van pool vehicles as follows:  TABLE 5.106.5.2 - PARKING	BACKLIGHT RATING 3  Luminaire greater than 2 mounting heights (MH) from N/A No Limit
SECTION 5.102 DEFINITIONS 5.102.1 DEFINITIONS	TOTAL NUMBER OF PARKING SPACES NUMBER OF REQUIRED SPACES  0-9  0	property line  Luminaire back hemisphere is  No Limit No
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	10-25 1 25-50 3	1-2 MH from property line    SUBMETER. A meter installed subordinate to a site meter. Usually used to measure water intended for one purpose, such as landscape irrigation. For the purposes of CALGreen, a dedicated meter may be considered a submeter.    Usually used to measure water intended for one purpose, such as landscape irrigation. For the purposes of CALGreen, a dedicated meter may be considered a submeter.    WATER BUDGET. Is the estimated total landscape irrigation water use which shall not exceed the maximum applied.
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:	51-75 6 76-100 8	Luminaire back hemisphere is less than 0.5 MH from property N/A B0 B1 B1 B2 water allowance calculated in accordance with the Department of Water Resources Model Efficient Landscape Ordinance (MWELO).  SECTION 5 303 INDOOR WATER USE
Zero emission vehicle (ZEV), including neighborhood electric vehicles (NEV), partial zero emission vehicle (PZEV), advanced technology PZEV (AT ZEV) or CNG fueled (original equipment manufacturer	101-150 11 151-200 16	MAXIMUM ALLOWABLE UPLIGHT RATING (U)  5.303.1 METERS. Separate submeters or metering devices shall be installed for the uses described in Sections 503.1.1 and 503.1.2.
only) regulated under Health and Safety Code section 43800 and CCR, Title 13, Sections 1961 and 1962.  2. High-efficiency vehicles, regulated by U.S. EPA, bearing High-Occupancy Vehicle (HOV) car pool lane stickers issued by the Department of Motor Vehicles.	201 AND OVER AT LEAST 8% OF TOTAL	For area lighting 4 N/A U0 U0 U0 U0  For all other outdoor  In 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 cleaners,
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 49CFR571.500 (as it existed on July 1, 2000), and is certified to zero-emission vehicle standards.	5.106.5.2.1 - Parking stall marking. Paint, in the paint used for stall striping, the following characters such that the lower edge of the last word aligns with the end of the stall striping and is visible beneath a parked vehicle: CLEAN AIR / VAN POOL / EV	lighting, including decorative luminaires  N/A  U1  U2  U3  UR  restaurant or food service, medical or dental office, laboratory, or beauty salon or barber shop.  Where separate submeters for individual building tenants are unfeasible, for water supplied to the following subsystems:
<b>TENANT-OCCUPANTS.</b> Building occupants who inhabit a building during its normal hours of operation as permanent occupants, such as employees, as distinguished from customers and other transient visitors.	Note: Vehicles bearing Clean Air Vehicle stickers from expired HOV lane programs may be considered eligible for designated parking spaces.	GLARE RATING 5 (G)  Luminaire greater than 2 MH from property line  A Makeup water for cooling towers where flow through is greater than 500 gpm (30 L/s).  B Makeup water for cooling towers where flow through is greater than 500 gpm (30 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).
VANPOOL 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.	□ □ 5.106.5.3 Electric vehicle (EV) charging. [N] Construction shall comply with Section 5.106.5.3.1 or Section 5.106.5.3.2 to facilitate future installation of electric vehicle supply equipment (EVSE).	Luminaire front hemisphere is 1-2 MH from property line  S.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.
Note: Source: Vehicle Code, Division 1, Section 668	When EVSE(s) is/are installed, it shall be in accordance with the California Building Code, the California Electrical Code and as follows:	Luminaire front hemisphere is 0.5-1 MH from property line  N/A  G0  G1  G1  G1  S-303.3 WATER CONSERVING PLUMBING FIXTURES AND FITTINGS. Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall comply with the following:
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	5.106.5.3.1 Single charging space requirements. [N] When only a single charging space is required per Table 5.106.5.3.3, a raceway is required to be installed at the time of construction and shall be installed in accordance with the California Electrical Code. Construction plans and specifications shall include, but are not limited to, the following:	Luminaire back hemisphere is less than 0.5 MH from property line  N/A  G0  G0  G0  G0  G1  Specification for Tank-Type toilets.  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.
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:	Specifications shall include, but are not limited to, the following.      The type and location of the EVSE.     A listed raceway capable of accommodating a 208/240 -volt dedicated branch circuit.	1. IESNA Lighting Zones 0 and 5 are not applicable; refer to Lighting Zones as defined in the California Energy Code and Chapter 10 of the Callifornia Administrative Code.  2. For property lines that abut public walkways, bikeways, plazas and parking lots, the property  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.
<b>5.106.1.1 Local ordinance</b> . Comply with a lawfully enacted storm water management and/or erosion control ordinance.	3. The raceway shall not be less than trade size 1".  4. The raceway shall originate at a service panel or a subpanel serving the area, and shall terminate in close proximity to the proposed location of the charging equipment and listed	line may be considered to be 5 feet beyond the actual property line for purpose of determining  compliance with this section. For property lines that abut public roadways and public transit  corridors, the property line may be considered to be the centerline of the public roadway or public  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.
<b>5.106.1.2 Best Management Practices (BMPs).</b> Prevent the loss of soil through wind or water erosion by implementing an effective combination of erosion and sediment control and good housekeeping BMPs.	suitable cabinet, box, enclosure or equivalent.  5. The service panel or subpanel shall have sufficient capacity to accommodate a minimum 40-ampere dedicated branch circuit for the future installation of the EVSE.	transit corridor for the purpose of determining compliance with this section.  3. If the nearest property line is less than or equal to two mounting heights from the back hemisphere of the luminaire distribution, the applicable reduced Backlight rating shall be met.  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.
<ol> <li>Soil loss BMPs that should be considered for implementation as appropriate for each project include, but are not limited to, the following:         <ul> <li>Scheduling construction activity during dry weather, when possible.</li> <li>Preservation of natural features, vegetation, soil, and buffers around surface waters.</li> <li>Drainage swales or lined ditches to control stormwater flow.</li> </ul> </li> </ol>	5.106.5.3.2 Multiple charging space requirements. [N] When multiple charging spaces are required per Table 5.106.5.3.3 raceway(s) is/are required to be installed at the time of construction and shall be installed in accordance with the California Electrical Code. Construction plans and specifications shall include, but are not limited to, the following:	4. General lighting luminaires in areas such as outdoor parking, sales or storage lots shall meet these reduced ratings. Decorative luminaires located in these areas shall meet <i>U</i> -value limits for "all other outdoor lighting".  5.303.3.3 Showerheads. [BSC-CG]  5.303.3.3 Showerheads. 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.
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.	<ol> <li>The type and location of the EVSE.</li> <li>The raceway(s) shall originate at a service panel or a subpanel(s) serving the area, and shall terminate in close proximity to the proposed location of the charging equipment and into listed suitable cabinet(s), box(es), enclosure(s) or equivalent.</li> </ol>	5. If the hearest property line is less than or equal to two mounting heights from the front hemisphere of the luminaire distribution, the applicable reduced Glare rating shall be met.  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.
j. Wind erosion control. k. Other soil loss BMPs acceptable to the enforcing agency. 2. Good housekeeping BMPs to manage construction equipment, materials, non-stormwater discharges	3. Plan design shall be based upon 40-ampere minimum branch circuits. 4. Electrical calculations shall substantiate the design of the electrical system, to include the rating of equipment and any on-site distribution transformers and have sufficient capacity	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:
and wastes that should be considered for implementation as appropriate for each project include, but are not limited to, the following:  a. Dewatering activities.  b. Material handling and waste management.	to simultaneously charge all required EVs at its full rated amperage.  5. The service panel or subpanel(s) shall have sufficient capacity to accommodate the required number of dedicated branch circuit(s) for the future installation of the EVSE.	include, but are not limited to, the following:  1. Swales. 2. Water collection and disposal systems.
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.	5.106.5.3.3 EV charging space calculations. [N] Table 5.106.5.3.3 shall be used to determine if single or multiple charging space requirements apply for the future installation of EVSE.	3. French drains. 4. Water retention gardens. 5. Other water measures which keep surface water away from buildings and aid in groundwater
f. Vehicle and equipment cleaning performed off site. g Spill prevention and control. h. Other housekeeping BMPs acceptable to the enforcing agency.	Exceptions: On a case-by-case basis where the local enforcing agency has determined EV charging and infrastructure is not feasible based upon one or more of the following conditions:	Exception: Additions and alterations not altering the drainage path.

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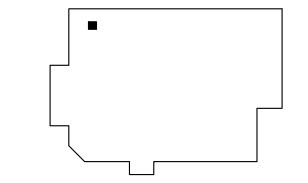
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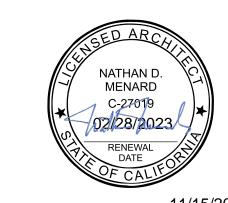


PERMIT SET

KEY PLAN



NATHAN D. MENARD, ARCHITECT



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DATE DESCRIPTION

08/01/22 PERMIT ISSUE

1 09/30/22 PLAN CHECK COMMENT #1

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## 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE

NONRESIDENTIAL MANDATORY MEASURES, SHEET 2 (January 2020, Includes August 2019 Supplement)

Y = YES
N/A = NOT APPLICABLE
RESPON. PARTY = RESPONSIBLE PARTY (ie: ARCHITECT, ENG
OWNER, CONTRACTOR, INSPECTOR ETC.)

equipment, all duct and other related air distribution component openings shall be covered with tape, plastic,

may enter the system.

sheetmetal or other methods acceptable to the enforcing agency to reduce the amount of dust, water and debris which

SECTION 5.407 WATER RESISTANCE AND MOISTURE MANAGEMENT 5.410.2 COMMISSIONING. [N] New buildings 10,000 square feet and over. For new buildings 10,000 square feet **5.410.4.4 Reporting.** After completion of testing, adjusting and balancing, provide a final report of testing **5.407.1 WEATHER PROTECTION.** Provide a weather-resistant exterior wall and foundation envelope as required by and over, building commissioning shall be included in the design and construction processes of the building project to signed by the individual responsible for performing these services. 5.303.3.4 Faucets and fountains. California Building Code Section 1402.2 (Weather Protection), manufacturer's installation instructions or local verify that the building systems and components meet the owner's or owner representative's project ordinance, whichever is more stringent. requirements. Commissioning shall be performed in accordance with this section by trained personnel with experience 5.303.3.4.1 Nonresidential Lavatory faucets. Lavatory faucets shall have a maximum flow rate of not **5.410.4.5 Operation and maintenance (O & M) manual.** Provide the building owner or representative with on projects of comparable size and complexity. For I-occupancies that are not regulated by OSHPD or for more than 0.5 gallons per minute at 60 psi. detailed operating and maintenance instructions and copies of guaranties/warranties for each system. O & M **5.407.2 MOISTURE CONTROL.** Employ moisture control measures by the following methods. l-occupancies and L-occupancies that are not regulated y the California Energy Code Section 100.0 Scope, all instructions shall be consistent with OSHA requirements in CCR, Title 8, Section 5142, and other related requirements in Sections 5.410.2 through 5.410.2.6 shall apply. **5.303.3.4.2 Kitchen faucets.** Kitchen faucets shall have a maximum flow rate of not more than 1.8 **5.407.2.1 Sprinklers.** Design and maintain landscape irrigation systems to prevent spray on structures. gallons per minute at 60 psi. Kitchen faucets may temporarily increase the flow above the maximum rate, Note: For energy-related systems under the scope (Section 100) of the California Energy Code, including heating. but not to exceed 2.2 gallons per minute at 60 psi, and must default to a maximum flow rate of 1.8 gallons **5.410.4.5.1 Inspections and reports.** Include a copy of all inspection verifications and reports required ventilation, air conditioning (HVAC) systems and controls, indoor lighting systems and controls, as well as water **5.407.2.2 Entries and openings**. Design exterior entries and/or openings subject to foot traffic or wind-driven by the enforcing agency. heating systems and controls, refer to California Energy Code Section 120.8 for commissioning requirements rain to prevent water intrusion into buildings as follows: **5.303.3.4.3 Wash fountains.** Wash fountains shall have a maximum flow rate of not more than 1.8 **5.407.2.2.1 Exterior door protection.** Primary exterior entries shall be covered to prevent water Commissioning requirements shall include: gallons per minute/20 frim space (inches) at 60 psil. **DIVISION 5.5 ENVIRONMENTAL QUALITY** 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. Owner's or Owner representative's project requirements. 5.303.3.4.4 Metering faucets. Metering faucets shall not deliver more than 0.20 gallons per cycle. **SECTION 5.501 GENERAL 5.501.1 SCOPE.** The provisions of this chapter shall outline means of reducing the quantity of air contaminants that 3. Commissioning measures shown in the construction documents. . An installed awning at least 4 feet in depth. **5.303.3.4.5 Metering faucets for wash fountains.** Metering faucets for wash fountains shall have a are odorous, irritating, and/or harmful to the comfort and well-being of a building's installers, occupants and neighbors. The door is protected by a roof overhang at least 4 feet in depth. 4. Commissioning plan. maximum flow rate of not more than 0.20 gallons per minute/20 [rim space (inches) at 60 psi]. The door is recessed at least 4 feet. Functional performance testing. 4. Other methods which provide equivalent protection. 6. Documentation and training. **Note:** Where complying faucets are unavailable, aerators or other means may be used to achieve **5.502.1 DEFINITIONS.** The following terms are defined in Chapter 2 (and are included here for reference) 7. Commissioning report. **5.407.2.2.2 Flashing.** Install flashings integrated with a drainage plane. **ARTERIAL HIGHWAY.** A general term denoting a highway primarily for through traffic usually on a continuous route. Exceptions: 5.303.4 COMMERCIAL KITCHEN EQUIPMENT. **A-WEIGHTED SOUND LEVEL (dBA).** The sound pressure level in decibels as measured on a sound level meter SECTION 5.408 CONSTRUCTION WASTE REDUCTION, DISPOSAL AND 1. Unconditioned warehouses of any size. using the internationally standardized A-weighting filter or as computed from sound spectral data to which A-weighting 5.303.4.1 Food Waste Disposers. Disposers shall either modulate the use of water to no more than 1 gpm 2. Areas less than 10,000 square feet used for offices or other conditioned accessory spaces within RECYCLING adjustments have been made. when the disposer is not in use (not actively grinding food waste/no-load) or shall automatically shut off after no unconditioned warehouses **5.408.1 CONSTRUCTION WASTE MANAGEMENT.** Recycle and/or salvage for reuse a minimum of 65% of the more than 10 minutes of inactivity. Disposers shall use no more than 8 gpm of water. 3. Tenant improvements less than 10,000 square feet as described in Section 303.1.1. **1 BTU/HOUR.** British thermal units per hour, also referred to as Btu. The amount of heat required to raise one pound non-hazardous construction and demolition waste in accordance with Section 5.408.1.1, 5.408.1.2 or 5.408.1.3; or Note: This code section does not affect local jurisdiction authority to prohibit or require disposer 4. Open parking garages of any size, or open parking garage areas, of any size, within a structure. of water one degree Fahrenheit per hour, a common measure of heat transfer rate. A ton of refrigeration is 12,000 Btu, meet a local construction and demolition waste management ordinance, whichever is more stringent. the amount of heat required to melt a ton (2,000 pounds) of ice at 32<sup>0</sup> Fahrenheit. Note: For the purposes of this section, unconditioned shall mean a building, area, or room which does not **5.303.5 AREAS OF ADDITION OR ALTERATION.** For those occupancies within the authority of the California **5.408.1.1 Construction waste management plan.** Where a local jurisdiction does not have a construction and provide heating and or air conditioning. COMMUNITY NOISE EQUIVALENT LEVEL (CNEL). A metric similar to the day-night average sound level (Ldn), demolition waste management ordinance, submit a construction waste management plan that: Building Standards Commission as specified in Section 103, the provisions of Section 5.303.3 and 5.303.4 shall apply except that a 5 decibel adjustment is added to the equivalent continuous sound exposure level for evening hours (7pm to new fixtures in additions or areas of alteration to the building. Informational Notes 1. Identifies the construction and demolition waste materials to be diverted from disposal by efficient to 10pm) in addition to the 10 dB nighttime adjustment used in the Ldn. 5.303.6 STANDARDS FOR PLUMBING FIXTURES AND FITTINGS. Plumbing fixtures and fittings shall be installed usage, recycling, reuse on the project or salvage for future use or sale. 1. IAS AC 476 is an accreditation criteria for organizations providing training and/or certification of **COMPOSITE WOOD PRODUCTS.** Composite wood products include hardwood plywood, particleboard and medium 2. Determines if construction and demolition waste materials will be sorted on-site (source-separated) or in accordance with the California Plumbing Code, and shall meet the applicable standards referenced in Table 1701.1 commissioning personnel. AC 476 is available to the Authority Having Jurisdiction as a reference for density fiberboard. "Composite wood products" does not include hardboard, structural plywood, structural of the California Plumbing Code and in Chapter 6 of this code. qualifications of commissioning personnel. AC 476 des not certify individuals to conduct functional 3. Identifies diversion facilities where construction and demolition waste material collected will be taken. panels, structural composite lumber, oriented strand board, glued laminated timber, timber, prefabricated wood I-joists performance tests or to adjust and balance systems. or finger-jointed lumber, all as specified in California Code of Regulations (CCR), Title 17, Section 93120.1(a). 4. Specifies that the amount of construction and demolition waste materials diverted shall be calculated by weight or volume, but not by both. 2. Functional performance testing for heating, ventilation, air conditioning systems and lighting controls **SECTION 5.304 OUTDOOR WATER USE** Note: See CCR, Title 17, Section 93120.1. must be performed in compliance with the California Energy Code. 5.304.1 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS. Nonresidential developments shall comply **5.408.1.2 Waste Management Company.** Utilize a waste management company that can provide verifiable with a local water efficient landscape ordinance or the current California Department of Water Resources' Model Water DAY-NIGHT AVERAGE SOUND LEVEL (Ldn). The A-weighted equivalent continuous sound exposure level for a documentation that the percentage of construction and demolition waste material diverted from the landfill Efficient Landscape Ordinance (MWELO), whichever is more stringent. 24-hour period with a 10 dB adjustment added to sound levels occurring during nighttime hours (10p.m. to 7 a.m.). 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 **DECIBEL (db).** A measure on a logarithmic scale of the magnitude of a particular quantity (such as sound pressure, Note: The owner or contractor shall make the determination if the construction and demolition waste material project begins. This documentation shall include the following: 1. The Model Water Efficient Landscape Ordinance (MWELO) is located in the California Code of Regulations, sound power, sound intensity) with respect to a reference quantity. will be diverted by a waste management company. 1. Environmental and sustainability goals. **ELECTRIC VEHICLE (EV).** An automotive-type vehicle for on-road use, such as passenger automobiles, buses, 2. MWELO and supporting documents, including a water budget calculator, are available at: Exceptions to Sections 5.408.1.1 and 5.408.1.2: 3. Indoor environmental quality requirements. trucks, vans, neighborhood electric vehicles, electric motorcycles, and the like, primarily powered by an electric motor 4. Project program, including facility functions and hours of operation, and need for after hours that draws current from a rechargeable storage battery, fuel cell, photovoltaic array, or other source of electric current. Excavated soil and land-clearing debris. 5.304.6 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS. For public schools and community colleges, Plug-in hybrid electric vehicles (PHEV) are considered electric vehicles. For purposes of the California Electrical Code, 2. Alternate waste reduction methods developed by working with local agencies if diversion or recycle 5. Equipment and systems expectations. off-road, self-propoelled electric vehicles, such as industrial trucks, hoists, lifts, transports, golf carts, airline ground landscape projects as described in Sections 5.304.6.1 and 5.304.6.2 shall comply with the California Department of facilities capable of compliance with this item do not exist. 6. Building occupant and operation and maintenance (O&M) personnel expectations. support equipment, tractors, boats, and the like, are not included. Water Resources Model Water Efficient Landscape Ordinance (MWELO) commencing with Section 490 of Chapter 3. Demolition waste meeting local ordinance or calculated in consideration of local recycling facilities 2.7, Division 2, Title 23, California Code of Regulations, except that the evapotranspiration adjustment factor (ETAF) **5.410.2.2 Basis of Design (BOD). [N]** A written explanation of how the design of the building systems meets ELECTRIC VEHICLE CHARGING STATION(S) (EVCSj). One or more spaces intended for charging electric vehicles. shall be 0.65 with an additional water allowance for special landscape areas (SLA) of 0.35. the OPR shall be completed at the design phase of the building project. The Basis of Design document shall 5.408.1.3 Waste stream reduction alternative. The combined weight of new construction disposal that does Exception: Any project with an aggregate landscape area of 2,500 square feet or less may comply with the ELECTRIC VEHICLE SUPPLY EQUIPMENT (EVSE). The conductors, including the ungrounded, grounded, and not exceed two pounds per square foot of building area may be deemed to meet the 65% minimum requirement equipment grounding conductors and the electric vehicle connectors, attachment plugs, and all other fittings, devices, prescriptive measures contained in Appendix D of the MWELO. 1. Renewable energy systems. power outlets, or apparatus installed specifically for the purpose of transferring energy between the premises wiring 2. Landscape irrigation systems. **5.304.6.1 Newly constructed landscapes.** New construction projects with an aggregate landscape **5.408.1.4 Documentation.** Documentation shall be provided to the enforcing agency which demonstrates Water reuse system. area equal to or greater than 500 square feet. compliance with Sections 5.408.1.1, through 5.408.1.3. The waste management plan shall be updated as ENERGY EQUIVALENT (NOISE) LEVEL (Leg). The level of a steady noise which would have the same energy as necessary and shall be accessible during construction for examination by the enforcing agency. **5.410.2.3 Commissioning plan. [N]** Prior to permit issuance a commissioning plan shall be completed to 5.304.6.2 Rehabilitated landscapes. Rehabilitated landscape projects with an aggregate the fluctuating noise level integrated over the time of period of interest. document how the project will be commissioned. The commissioning plan shall include the following: landscape area equal to or greater than 1,200 square feet. General project information. **EXPRESSWAY.** An arterial highway for through traffic which may have partial control of access, but which may or may Commissioning goals. not be divided or have grade separations at intersections. 1. Sample forms found in "A Guide to the California Green Building Standards Code (Nonresidential)" 3. Systems to be commissioned. Plans to test systems and components shall include: located at www.bsc.ca.gov/Home/CALGreen.aspx may be used to assist in documenting compliance a. An explanation of the original design intent. FREEWAY. A divided arterial highway with full control of access and with grade separations at intersections. with the waste management plan. b. Equipment and systems to be tested, including the extent of tests. DIVISION 5.4 MATERIAL CONSERVATION AND RESOURCE 2. Mixed construction and demolition debris processors can be located at the California Department of c. Functions to be tested. GLOBAL WARMING POTENTIAL (GWP). The radiative forcing impact of one mass-based unit of a given greenhouse Resources Recycling and Recovery (CalRecycle). **EFFICIENCY** d. Conditions under which the test shall be performed. gas relative to an equivalent unit of carbon dioxide over a given period of time. Carbon dioxide is the reference e. Measurable criteria for acceptable performance. **5.408.2 UNIVERSAL WASTE. [A]** Additions and alterations to a building or tenant space that meet the scoping compound with a GWP of one. 4. Commissioning team information. **SECTION 5.401 GENERAL** provisions in Section 301.3 for nonresidential additions and alterations, shall require verification that Universal Waste 5. Commissioning process activities, schedules and responsibilities. Plans for the completion of GLOBAL WARMING POTENTIAL VALUE (GWP VALUE). A 100-year GWP value published by the **5.401.1 SCOPE.** The provisions of this chapter shall outline means of achieving material conservation and resource items such as fluorescent lamps and ballast and mercury containing thermostats as well as other California prohibited commissioning shall be included. efficiency through protection of buildings from exterior moisture, construction waste diversion, employment of Intergovernmental Panel on Climate Change (IPCC) in either its Second Assessment Report (SAR) (IPCC, 1995); or Universal Waste materials are disposed of properly and are diverted from landfills. A list of prohibited Universal Waste its Fourth Assessment A-3 Report (AR4) (IPCC, 2007). The SAR GWP values are found in column "SAR (100-yr)" of techniques to reduce pollution through recycling of materials, and building commissioning or testing and adjusting. naterials shall be included in the construction documents. **5.410.2.4 Functional performance testing. [N]** Functional performance tests shall demonstrate the correct Table 2.14.; the AR4 GWP values are found in column "100 yr" of Table 2.14. installation and operation of each component, system and system-to-system interface in accordance with the **Note**: Refer to the Universal Waste Rule link at: approved plans and specifications. Functional performance testing reports shall contain information addressing HIGH-GWP REFRIGERANT. A compound used as a heat transfer fluid or gas that is: (a) a chlorofluorocarbon, a http://www.dtsc.ca.gov/LawsRegsPolicies/Regs/upload/OEAR-A\_REGS\_UWR\_FinalText.pdf each of the building components tested, the testing methods utilized, and include any readings and adjustments hdrochlorofluorocarbon, a hydrofluorocarbon, a perfluorocarbon, or any compound or blend of compounds, with a **5.402.1 DEFINITIONS.** The following terms are defined in Chapter 2 (and are included here for reference) **5.408.3 EXCAVATED SOIL AND LAND CLEARING DEBRIS.** 100 percent of trees, stumps, rocks and associated GWP value equal to or greater than 150, or (B) any ozone depleting substance as defined in Title 40 of the Code of **ADJUST.** To regulate fluid flow rate and air patterns at the terminal equipment, such as to reduce fan speed or adjust Federal Regulations, Part 82, sec.82.3 (as amended March 10, 2009). vegetation and soils resulting primarily from land clearing shall be reused or recycled. For a phased project, such **5.410.2.5 Documentation and training. [N]** A Systems Manual and Systems Operations Training are required, material may be stockpiled on site until the storage site is developed. including Occupational Safety and Health Act (OSHA) requirements in California Code of Regulations (CCR), LONG RADIUS ELBOW. Pipe fitting installed between two lengths of pipe or tubing to allow a change of direction, BALANCE. To proportion flows within the distribution system, including sub-mains, branches and terminals, Title 8, Section 5142, and other related regulations. with a radius 1.5 times the pipe diameter. **Exception:** Reuse, either on or off-site, of vegetation or soil contaminated by disease or pest infestation. according to design quantities. **LOW-GWP REFRIGERANT.** A compound used as a heat transfer fluid or gas that: (A) has a GWP value less than **5.410.2.5.1 Systems manual. [N]** Documentation of the operational aspects of the building shall be 150, and (B) is not an ozone depleting substance as defined in Title 40 of the Code of Federal Regulations, Part 82, BUILDING COMMISSIONING. A systematic quality assurance process that spans the entire design and construction completed within the systems manual and delivered to the building owner or representative. The process, including verifying and documenting that building systems and components are planned, designed, installed, 1. If contamination by disease or pest infestation is suspected, contact the County Agricultural sec.82.3 (as amended March 10, 2009). systems manual shall include the following: tested, operated and maintained to meet the owner's project requirements. Commissioner and follow its direction for recycling or disposal of the material. 1. Site information, including facility description, history and current requirements. **MERV.** Filter minimum efficiency reporting value, based on ASHRAE 52.2–1999. 2. For a map of know pest and/or disease quarantine zones, consult with the California Department of 2. Site contact information. **ORGANIC WASTE.** Food waste, green waste, landscape and pruning wste, nonhazardous wood waste, and food Food and Agriculture. (www.cdfa.ca.gov) 3. Basic operations and maintenance, including general site operating procedures, basic MAXIMUM INCREMENTAL REACTIVITY (MIR). The maximum change in weight of ozone formed by adding a soiled paper waste that is mixed in with food waste. troubleshooting, recommended maintenance requirements, site events log. compound to the "Base REactive Organic Gas (ROG) Mixture" per weight of compound added, expressed to Major systems. **SECTION 5.410 BUILDING MAINTENANCE AND OPERATIONS** hundreths of a gram (g O<sup>3</sup>/g ROC). **TEST.** A procedure to determine quantitative performance of a system or equipment 5. Site equipment inventory and maintenance notes. **5.410.1 RECYCLING BY OCCUPANTS.** Provide readily accessible areas that serve the entire building and are 6. A copy of verifications required by the enforcing agency or this code. identified for the depositing, storage and collection of non-hazardous materials for recycling, including (at a minimum) PRODUCT-WEIGHTED MIR (PWMIR). The sum of all weighted-MIR for all ingredients in a product subject to this 7. Other resources and documentation, if applicable. paper, corrugated cardboard, glass, plastics, organic waste, and metals or meet a lawfully enacted local recycling article. The PWMIR is the total product reactivity expressed to hundredths of a gram of ozone formed per gram of ordinance, if more restrictive. product (excluding container and packaging). 5.410.2.5.2 Systems operations training. [N] A program for training of the appropriate maintenance **Exception**: Rural jurisdictions that meet and apply for the exemption in Public Resources **PSIG.** Pounds per square inch, guage. staff for each equipment type and/or system shall be developed and documented in the commissioning Code 42649.82 (a)(2)(A) et seq. shall also be exempt from the organic waste portion of this section. report and shall include the following: **REACTIVE ORGANIC COMPOUND (ROC).** Any compound that has the potential, once emitted, to contribute to 1. System/equipment overview (what it is, what it does and with what other systems and/or **5.410.1.1 Additions.** All additions conducted within a 12-month period under single or multiple permits, ozone formation in the troposphere. equipment it interfaces). resulting in an increase of 30% or more in floor area, shall provide recycling areas on site. 2. Review and demonstration of servicing/preventive maintenance. **SCHRADER ACCESS VALVES.** Access fittings with a valve core installed. 3. Review of the information in the Systems Manual. Exception: Additions within a tenant space resulting in less than a 30% increase in the tenant space 4. Review of the record drawings on the system/equipment. 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. **5.410.1.2 Sample ordinance.** Space allocation for recycling areas shall comply with Chapter 18, Part 3, 5.410.2.6 Commissioning report. [N] A report of commissioning process activities undertaken through the **SUPERMARKET.** For the purposes of Section 5.508.2, a supermarket is any retail food facility with 8,000 square feet Division 30 of the *Public Resources Code*. Chapter 18 is known as the California Solid Waste Reuse and design and construction phases of the building project shall be completed and provided to the owner or Recycling Access Act of 1991 (Act). or more conditioned area, and that utilizes either refrigerated display cases, or walk-in coolers or freezers connected to remote compressor units or condensing units. Note: A sample ordinance for use by local agencies may be found in Appendix A of the document at the **5.410.4 TESTING AND ADJUSTING.** New buildings less than 10,000 square feet. Testing and adjusting of **VOC.** A volatile organic compound broadly defined as 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 systems shall be required for new buildings less than 10,000 square feet or new systems to serve an addition or hydrogen and may contain oxygen, nitrogen and other elements. See CCR Title 17, Section 94508(a) alteration subject to Section 303.1. Note: Where specific regulations are cited from different agencies such as SCAQMD, ARB, etc., the VOC definition 5.410.4.2 (Reserved) included in that specific regulation is the one that prevails for the specific measure in question. Note: For energy-related systems under the scope (Section 100) of the California Energy Code, including **SECTION 5.503 FIREPLACES** heating, ventilation, air conditioning (HVAC) systems and controls, indoor lighting system and controls, as well 5.503.1 FIREPLACES. Install only a direct-vent sealed-combustion gas or sealed wood-burning fireplace, or a sealed as water heating systems and controls, refer to California Energy Code Section 120.8 for commissioning woodstove or pellet stove, and refer to residential requirements in the California Energy Code, Title 24, Part 6. requirements and Sections 120.5, 120.6, 130.4, and 140.9(b)3 for additional testing requirements of specific 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 **5.410.4.2 Systems.** Develop a written plan of procedures for testing and adjusting systems. Systems to be Standards (NSPS) emission limits as applicable, and shall have a permanent label indicating they are certified to meet the emission limits. included for testing and adjusting shall include at a minimum, as applicable to the project: 1. Renewable energy systems. SECTION 5.504 POLLUTANT CONTROL Landscape irrigation systems. 5.504.1 TEMPORARY VENTILATION. The permanent HVAC system shall only be used during construction if Water reuse systems. 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 **5.410.4.3 Procedures.** Perform testing and adjusting procedures in accordance with manufacturer's Minimum Efficiency Reporting Value (MERV) of 8, based on ASHRAE 52.2-1999, or an average efficiency of specifications and applicable standards on each system. 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. **5.410.4.3.1 HVAC balancing.** In addition to testing and adjusting, before a new space-conditioning 5.504.3 Covering of duct openings and protection of mechanical equipment during construction. At the time of 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 rough installation and during storage on the construction site until final startup of the heating, cooling and ventilation

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Standards; the National Environmental Balancing Bureau Procedural Standards; Associated Air Balance

Council National Standards or as approved by the enforcing agency.

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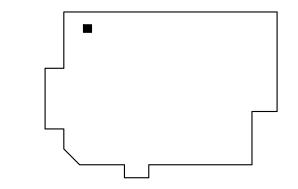
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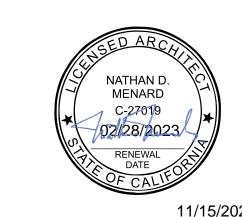


PERMIT SET

KEY PLAN



NATHAN D. MENARD, ARCHITECT



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DATE DESCRIPTION

08/01/22 PERMIT ISSUE

1 09/30/22 PLAN CHECK COMMENT #1

08/01/22 PERMIT ISSUE

1 09/30/22 PLAN CHECK COMMENT #1

99-5890-20 PM: ARTURO REINA DRAWN: MH

CAL GREEN

3204



the requirements of the following standards:

aerosol products as specified in subsection 2, below.

Y N/A RESPON. PARTY

## 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE

NONRESIDENTIAL MANDATORY MEASURES, SHEET 3 (January 2020, Includes August 2019 Supplement)

TABLE 5.504.4.1 - ADHESIVE VOC LII	$MIT_{1,2}$
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 SPECIFICALLY LISTED	50
SPECIALTY APPLICATIONS	
PVC WELDING	510
CPVC WELDING	490
ABS WELDING	325
PLASTIC CEMENT WELDING	250
ADHESIVE PRIMER FOR PLASTIC	550
CONTACT ADHESIVE	80
SPECIAL PURPOSE CONTACT ADHESIVE	250
STRUCTURAL WOOD MEMBER ADHESIVE	140
TOP & TRIM ADHESIVE	250
SUBSTRATE SPECIFIC APPLICATIONS	
METAL TO METAL	30
PLASTIC FOAMS	50
POROUS MATERIAL (EXCEPT WOOD)	50
WOOD	30

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

5.504.4.1 Adhesives, sealants and caulks. Adhesives, sealants, and caulks used on the project shall meet

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

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

prohibitions on use of certain toxic compounds, of California Code of Regulations, Title 17, commencing

than 16 fluid ounces) shall comply with statewide VOC standards and other requirements, including

products also shall comply with the Rule 1168 prohibition on the use of certain toxic compounds

1. Adhesives, adhesive bonding primers, adhesive primers, sealants, sealant primers and caulks shall

(chloroform, ethylene dichloride, methylene chloride, perchloroethylene and trichloroethylene), except for

1. IF AN ADHESIVE IS USED TO BOND DISSIMILAR SUBSTRATES TOGETHER, 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.arb.ca.gov/DRDB/SC/CURHTML/R1168.PDF

FIBERGLASS

Less Water and Less Exempt Compounds in	Grams per Liter
SEALANTS	CURRENT VOC LIMIT
ARCHITECTURAL	250
MARINE DECK	760
NONMEMBRANE ROOF	300
ROADWAY	250
SINGLE-PLY ROOF MEMBRANE	450
OTHER	420
SEALANT PRIMERS	
ARCHITECTURAL	
NONPOROUS	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.

**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, Nonflat 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 PWMIR Limits for ROC in Section 94522(a)(3) and other requirements, including prohibitions on use of certain toxic ds and ozone depleting substances, in Sections 94522(c)(2) and (d)(2) 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.

NONPLAT COATINGS  NONPLAT HIGH GLOSS COATINGS  ALUMINUM ROOF COATINGS  ALUMINUM ROOF COATINGS  ALUMINUM ROOF COATINGS  BITUMINUOUS ROOF COATINGS  BITUMINUOUS ROOF COATINGS  BITUMINUOUS ROOF PRIMERS  SOO BORD BREAKERS  SOO	<b>○ ○ / \ 1   1   1   ○ ○ 2,</b> 0	RARCHITECTURAL		
FIGURE COATINGS  MONFLAT HICK GLOSS COATINGS  MONFLAT HICK GLOSS COATINGS  SPECIALTY COATINGS  ALAMINUM MODE COATINGS  MILLIMINUM STOCK COATINGS  MILLIMINUM STOCK COATINGS  MILLIMINUM STOCK PRIMERS  M	·	T COMPOUNDS		
NONPLAT COATINGS  NONPLAT HIGH GLOSS COATINGS  ALUMINUM ROOF COATINGS  ALUMINUM ROOF COATINGS  ALUMINUM ROOF COATINGS  BITUMINUOUS ROOF COATINGS  BITUMINUOUS ROOF COATINGS  BITUMINUOUS ROOF PRIMERS  SOO BORD BREAKERS  SOO	COATING CATEGORY	CURRENT VOC LIMIT		
NOMER AT HIGH GLIGAS CONTINGS  SPECIALTY COATINGS  AUMINIUM ROOF COATINGS  AUMINIUM ROOF COATINGS  BITUMINOUS PROOF PRIMERS  BITUMINOUS PROOF PRIMER	FLAT COATINGS			
ALUMINUM ROOF COATINGS  ALUMINUM ROOF COATINGS  ALUMINUM ROOF COATINGS  BTULINOUS ROOF COATINGS  BTULINOUS ROOF COATINGS  BOND BREAKERS  SSD  CONCRETE EURING COMPOUNDS  SSD  REPLY POG COATINGS  BOND  FIRE RESISTIVE COATINGS  FIRE RESISTIVE COATINGS  SSD  CORRETELASE COMPOUNDS  FIRE RESISTIVE COATINGS  SSD  FORMARELASE COMPOUNDS  COMPOUNDS  FORMARELASE COMPOUNDS  COMPOUNDS  FORMARELASE COMPOUNDS  FORMARELASE COMPOUNDS  FORMARELASE COMPOUNDS  FORMARELASE COMPOUNDS  FORMARELASE COMPOUNDS  FORMARELASE COMPOUNDS  MACRISTIVE COATINGS  MACRISTIC TEXTURE COATINGS  MACRISTIC TEXTURE COATINGS  METALLO PIREMANDE COATINGS  METALLO PIR				
ALUMINUM ROOF COATINGS 400  ARASEMENT SPECIALTY COATINGS 500  BITUMINUS ROOF PRIMERS 500  BITUMINUS ROOF PRIMERS 500  BITUMINUS ROOF PRIMERS 500  BOND BITUMINUS ROOF PRIMERS 500  CONCRETE CURING COMPOUNDS 500  CONCRETE CURING COMPOUNDS 500  BOND BITUMINUS ROOF PRIMERS 500  CONCRETE CURING COMPOUNDS 500  BOND SPECIALTY COATINGS 500  BOND SPECIALTY COATINGS 500  BOND SPECIALTY COATINGS 500  FIRE RESISTIVE COATINGS 500  F		150		
BITUMINOUS ROOF COATNOS BITUMINOUS ROOF PRIMERS BOOD SPEAKERS BOOD SPEAK		400		
BITUMINOUS ROOF PRIMERS  SOND BREAKERS  SOND CONCRETE CURING COMPOUNDS  SSS SOND CONCRETE CURING COMPOUNDS  SSS SOND CONCRETE CURING COMPOUNDS  SSS SOND CONCRETE AND COMPOUNDS  SSS SOND CONCRETE AND COMPOUNDS  FAUX FINISHING COATINGS  FAUX FINISHING COATINGS  FAUX FINISHING COATINGS  FLOOR COATINGS  FLOOR COATINGS  FLOOR COATINGS  FLOOR COATINGS  FLOOR COATINGS SOND FAITS)  FORMARIELASE COMPOUNDS  FLOOR COATINGS SOND FAITS)  FORMARIELASE COMPOUNDS  FLOOR COATINGS SOND FAITS)  FLOOR COATINGS SOND FAITS)  FLOOR COATINGS SOND FAITS  FLOOR FAIT	BASEMENT SPECIALTY COATINGS	400		
BOND BREAKERS  CONCRETE CURRING SOMPOUNDS  500  CONCRETE CURRING SOMPOUNDS  500  DRIVEWAY SEALERS  DOD DRIVEWAY SEALERS  DOD DRIVEWAY SEALERS  500  PAIX FIRSHING COATINGS  1500  FIRE RESISTIVE COATINGS  1500  FIRE RESISTIVE COATINGS  1500  FORMARELASE COMPOUNDS  2500  GRAPHIC ANTS COATINGS (SIGN PAINTS)  500  HIGH-TEMPERATURE COATINGS  1500  HIGH-TEMPERATURE COATINGS  HIGH-TEMPERATURE COATINGS	BITUMINOUS ROOF COATINGS	50		
CONCRETE CURING COMPOUNDS 889 CONCRETEMASONITY SEALERS 100 CONCRETEMASONITY SEALERS 100 CONCRETEMASONITY SEALERS 50 DRY POOR COATINGS 150 DRY POOR COATINGS 500 PREDENTING TOATINGS 500 PREDENTING TOATINGS 500 PREDENTING COATINGS 500 PREDENTING TOATINGS 500 PREDENTING TOATING TOATING TOA	BITUMINOUS ROOF PRIMERS	350		
CONCRETEMASONRY SEALERS 50  DRIVEWAY SEALERS 50  DRIVEWAY SEALERS 50  DRIVEWAY SEALERS 50  PARY FOO COATINGS 150  FAUX FINISHING COATINGS 550  FIRE RESSITIVE COATINGS 550  FIRE RESSITIVE COATINGS 550  FORMARELEASE COMPOUNDS 500  FORMARELEASE COMPOUNDS 500  FORMARELEASE COMPOUNDS 500  FINISHING COATINGS 500  MASTIC TEXTURE COATINGS 500  MASTIC TEXTURE COATINGS 500  MASTIC TEXTURE COATINGS 500  MALTICOLOR COATINGS 500  MULTICOLOR COATINGS 500  MULTICOL	BOND BREAKERS	350		
DRIVEWAY SEALERS  DRY POO COATINISS  150  DRY POO COATINISS  150  RAD SEAL SEASON SEAS				
PRY POC COATINGS   150  FAUX FINISHING COATINGS   350  FICOR COATINGS   340  FICOR COATINGS   340  FICOR COATINGS   350  FICOR COATI				
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FORM-RELEASE COMPOUNDS  GRAPHIC ARTS COATINGS (SIGN PAINTS)  INDUSTRIAL MAINTENANCE COATINGS  AMORGESTIE CEMENT COATINGS  MAGNESTIE CEMENT COATINGS  MACH COATINGS  METALLIC PROMENTED COATINGS  MACH COATINGS  METALLIC PROMENTED COATINGS  MACH COATINGS  PRETREATMENT WASH PRIMERS  400  PRIMERS, SEALERS, & UNDERCOATERS  100  RECOTIVE PENETRATING SEALERS  350  RECOULD COATINGS  550  MODITION OF COATINGS  MODITION OF COATINGS  MODITION OF COATINGS  MODITION OF COATINGS  SHELLAGS:  CLEAR  700  POPQUE  550  SPECIALTY PRIMERS, SEALERS & UNDERCOATERS  100  STAINS  250  DIE  TARFIC MARKING COATINGS  100  TO CO				
GRAPHIC ARTS COATINGS (SIGN PAINTS)  HIGH-TEMPERATURE COATINGS  470  NOUSTRIAL MAINTENANCE COATINGS  LOW SOLIDS COATINGS  MAGNESITE CEMENT COATINGS  MASTIC TEXTURE COATINGS  MASTIC TEXTURE COATINGS  MINTICOLOR COATINGS  MINTICOLOR COATINGS  MINTICOLOR COATINGS  MINTICOLOR COATINGS  MINTICOLOR COATINGS  PRIMERS, SEALERS, & UNDERCOATERS  MINTICOLOR COATINGS  PRECYCLED COATINGS  PRECYCLED COATINGS  PRECYCLED COATINGS  PRECYCLED COATINGS  PRECYCLED COATINGS  PRECYCLED COATINGS  SOOD  REACTIVE PENETRATING SEALERS  SOOD  RECYCLED COATINGS  SOOD	FLOOR COATINGS	100		
HIGH-TEMPERATURE COATINGS	FORM-RELEASE COMPOUNDS	250		
INDUSTRIAL MAINTENANCE COATINGS  LOW SOLIDS COATINGS  120  MASTIC TEXTURE: COATINGS  MASTIC TEXTURE: COATINGS  MILTICULO PROMENTED COATINGS  MILTICULO PROMENTED COATINGS  MILTICULO RECOATINGS  MILTICULO RECOATINGS  PRETREATMENT WASH PRIMERS  PRETREATMENT WASH PRIMERS  PRETREATMENT WASH PRIMERS  PRECYCLED COATINGS  PRECYCLED	GRAPHIC ARTS COATINGS (SIGN PAINTS)	500		
LOW SOLIDS COATINGS  MACHIESTE CEMENT COATINGS  MACHIESTE CEMENT COATINGS  MACHIESTE CEMENT COATINGS  METALLIC PICMENTED COATINGS  METALLIC PICMENTED COATINGS  MILTICOLOR COATINGS  PRETREATMENT WASH PRIMERS  PRETREATMENT WASH PRIMERS  PRETREATMENT WASH PRIMERS  PRETREATMENT WASH PRIMERS  RECYCLED COATINGS  RECYCLED COATINGS  SECOLUTION SECOLUTIONS  RECYCLED COATINGS  SOLUTIONS  RECYCLED COATINGS  SOLUTIONS  RECYCLED COATINGS  SOLUTIONS  RECYCLED COATINGS  SOLUTIONS  SHELLACS:  CLEAR  OPAQUE  SOLUTIONS  SPECIALTY PRIMERS, SEALERS & UNDERCOATERS  100  STAINS  STONE CONSOLIDANTS  SOLUTIONS  STAINS  STONE CONSOLIDANTS  MACHIESTER, SEALERS & UNDERCOATERS  100  STAINS  STONE CONSOLIDANTS  MACHIESTER, SEALERS & UNDERCOATERS  100  THE ATTER REPORT OF THE ACTION OF THE A				
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METALLIC PIGMENTED COATINGS 500  METALLIC PIGMENTED COATINGS 500  METALLIC PIGMENTED COATINGS 500  METALLIC PIGMENTED COATINGS 500  PREFERATIMENT WASH PRIMERS 420  PRIMERS, SEALERS, & UNDERCOATERS 100  REACTIVE PENETRATING SEALERS 350  REACTIVE PENETRATING SEALERS 500  ROOF COATINGS 500  ROOF COATINGS 500  ROST PREVENTATIVE COATINGS 500  SHELLACS:  CLEAR 7730  OPAQUE 550  SPECIALTY PRIMERS, SEALERS & UNDERCOATERS 100  STAINS 250  STONE CONSOLIDANTS 450  SYMMMING POOL COATINGS 100  TUB & TILE REFINISH COATINGS 1				
MULTICOLOR COATINGS 250  MULTICOLOR COATINGS 250  PRIMERS, SEALERS, & UNDERCOATERS 100  REACTIVE PENETRATING SEALERS 350  RECYCLED COATINGS 250  RECYCLED COATINGS 500  RECYCLED COATINGS 500  RECYCLED COATINGS 500  RUST PREVENTATIVE COATINGS 500  RUST PREVENTATIVE COATINGS 500  SHELLACS:  CLEAR 730  OPAQUE 550  SPECIALTY PRIMERS, SEALERS & UNDERCOATERS 100  STAINS 250  STONE CONSOLIDANTS 450  STONE CONSOLIDANTS 450  SYMMMING POOL COATINGS 100  THAFFIC MARKING COATINGS 100  THAFFIC MARKING COATINGS 100  THAFFIC MARKING COATINGS 100  THAFFIC MARKING COATINGS 100  TUB & THE REFINISH COATINGS 100  TUB & THE REFINISH COATINGS 100  THE ATLE REFINISH COATINGS 100  THE A				
MULTICOLOR COATINGS PRETREATMENT WASH PRIMERS # 420 PRETREATMENT WASH PRIMERS # 420 PRIMERS, SEALERS, & UNDERCOATERS # 350 RECYCLED COATINGS # 250 SHELLACS: # 730 OPAQUE # 550 SHELLACS: # 730 PROJULE # 550 STAINS # 250 STAINS # 2			X	
PRIMERS, SEALERS, & UNDERCOATERS  RECYCLED COATINGS  RECYCLED COATINGS  SECOND SEALERS  SOON SOON SEALERS  RECYCLED COATINGS  SECOND SEALERS  SOON SEALERS  SOON SEALERS  SOON SEALERS  RUST PREVENTATIVE COATINGS  SHELLACS:  CLEAR  OPAQUE  SSON  SPECIALTY PRIMERS, SEALERS & UNDERCOATERS  100  STAINS  STONE CONSOLIDANTS  SWIMMING POOL COATINGS  THASFIC MARKING COATINGS  TUB & TILE REFINISH COATINGS  WATERPROOPING MEMBRANES  SOON  WAT				
REACTIVE PENETRATING SEALERS  RECYCLED COATINGS  ROOF COATINGS  ROOF COATINGS  SOURCE  ROOF COATINGS  SHELLACS:  CLEAR  730  OPAQUE  550  SHELLACS:  CLEAR  730  OPAQUE  550  SPECIALTY PRIMERS, SEALERS & UNDERCOATERS  100  STONE CONSOLIDANTS  STONE CONSOLIDANTS  SWIMMING POOL COATINGS  100  TRAFFIC MARKING COATINGS  100  TRAFFIC MARKING COATINGS  100  TRAFFIC MARKING COATINGS  WOOD PRESERVATIVES  350  WOOD PRESERVATIVES  350  LINE REFINISH COATINGS  1. GRAMS OF VOO PER LITER OF COATING. INCLUDING WATER & EXEMPT COMPOUNDS  2. THE SPECIFIED LIMITS REMAIN IN EFFECT UNLESS REVISED LIMITS ARE LISTED IN SUBSEQUENT COLUMNS IN THE TABLE.  3. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALLFORNN AR RESOURCES BOARD.  ARCHITECTURAL COATINGS SHOULD AND AND AND AND AND AND AND EXPLORED THE TABLE.  3. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALLFORNN AR RESOURCES BOARD.  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. Manufacture's product specification  2. Field verification of on-sile product containers  5.504.4.4 Carpet Systems. All carpet installed in the building interior shall meet at least one of the testing and product requirements.  5.504.4.9 Carpet and Rug Institute's Green Label Plus Program.  2. Complaint with the COET HIST BASING Individes the requirements specified in 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 1.1, February 2010 (also known as CDH Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers, Version 1.1, February 2010 (also known as CDH Standard Method of the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers, Version 1.1, February 2010 (	PRETREATMENT WASH PRIMERS	420		
RECYCLED COATINGS 250  ROOF COATINGS 50  ROOF COATINGS 50  ROF COATINGS 50  ROF COATINGS 50  RUST PREVENTATIVE COATINGS 50  SPECIALTY PRIMERS, SEALERS & UNDERCOATERS 100  SPECIALTY PRIMERS, SEALERS & UNDERCOATERS 100  STAINS 250  STONE CONSOLIDANTS 450  SYMMING POOL COATINGS 100  TRAFFIC MARKING COATINGS 100  TRAFFIC MARKING COATINGS 100  TOB & TILE REFINISH COATINGS 100  WATERPROOFING MEMBRANES 250  WOOD COATINGS 275  WOOD PRESERVATIVES 350  ZINC-RICH PRIMERS 340  1. GRAMS OF YOO PER LITER OF COATING. INCLUDING WATER & EXEMPT COMPOUNDS 21 HE SPECIBLE BURNTS REMAIN IN SEPECIAL DRIVEN BURNTS ARE LISTED IN SUBSEQUENT COLUMNS IN THE TABLE 31 BEFORE DRIVEN BURNTS ARE LISTED IN SUBSEQUENT COLUMNS IN THE TABLE 31 BEFORE DRIVEN BURNTS ARE LISTED IN SUBSEQUENT COLUMNS IN THE TABLE 31 BEFORE DRIVEN BURNTS ARE LISTED IN SUBSEQUENT COLUMNS IN THE TABLE 31 BEFORE DRIVEN BURNTS ARE LISTED IN SUBSEQUENT COLUMNS IN THE TABLE 31 BEFORE DRIVEN BURNTS ARE LISTED IN SUBSEQUENT COLUMNS IN THE TABLE 31 BEFORE DRIVEN BURNTS ARE LISTED IN SUBSEQUENT COLUMNS IN THE TABLE 31 BEFORE DRIVEN BURNTS ARE LISTED IN SUBSEQUENT COLUMNS IN THE TABLE 31 BEFORE DRIVEN BURNTS ARE LISTED IN SUBSEQUENT COLUMNS IN THE TABLE 31 BEFORE DRIVEN BURNTS ARE LISTED IN SUBSEQUENT COLUMNS IN THE TABLE 31 BEFORE DRIVEN BURNTS ARE LISTED IN SUBSEQUENT COLUMNS IN THE TABLE 31 BEFORE DRIVEN BURNTS ARE LISTED IN SUBSEQUENT COLUMNS IN THE TABLE 31 BEFORE DRIVEN BURNTS ARE LISTED IN SUBSEQUENT COLUMNS IN THE TABLE 31 BEFORE DRIVEN BURNTS ARE LISTED IN SUBSEQUENT COLUMNS IN THE TABLE 31 BEFORE DRIVEN BURNTS ARE LISTED IN SUBSEQUENT COLUMNS IN THE TABLE 31 BEFORE DRIVEN BURNTS ARE LISTED IN SUBSEQUENT COLUMNS IN THE TABLE 31 BEFORE DRIVEN BURNTS ARE SUBSECUENT BURNTS AND ARE RESOURCES BOARD.  5.504.4.4.2 CAPPET SUBSECUENT BURNTS ARE LISTED IN SUBSEQUENT COLUMNS IN THE TABLE 31 BEFORE DRIVEN BURNTS ARE SUBSECUENT BURNTS AND ARE SUBSECUENT BU	PRIMERS, SEALERS, & UNDERCOATERS	100		
ROSF COATINGS 50  RUST PREVENTATIVE COATINGS 250  SHELLACS:  CLEAR 730  OPAQUE 550  SPECIALTY PRIMERS, SEALERS & UNDERCOATERS 100  STAINS 250  STONE CONSOLIDANTS 450  SWIMMING POOL COATINGS 100  RATHOR & TILE REFINISH COATINGS 100  WATERPROOFING MEMBRANES 250  WOOD COATINGS 100  WOOD PRESERVATIVES 350  ZINC-RICH PRIMERS 340  1. GRAMS OF YOC PER LITER OF COATING, INCLUDING WATER & EXEMPT COMPOUNDS 21  ZINC-RICH PRIMERS 340  1. GRAMS OF YOC PER LITER OF COATING, INCLUDING WATER & EXEMPT COMPOUNDS 22  THE SPECIFIED LIMITS REMAIN IN EFFECT UNLESS REVISED LIMITS ARE LISTED IN SUBSEQUENT COLUMNS IN THE TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD. ARCHITECTURAL COATINGS SUGGESTED CONTROL MEASURE, FEB. 1, 2006. MORE INFORMATION IS AVAILABLE FROM THE AIR RESOURCES BOARD. ARCHITECTURAL COATINGS SUGGESTED CONTROL MEASURE, FEB. 1, 2006. MORE INFORMATION IS AVAILABLE FROM THE AIR RESOURCES BOARD. ARCHITECTURAL COATINGS SUGGESTED CONTROL MEASURE, FEB. 1, 2006. MORE INFORMATION IS AVAILABLE FROM THE AIR RESOURCES BOARD. ARCHITECTURAL COATINGS SUGGESTED CONTROL MEASURE, FEB. 1, 2006. MORE INFORMATION IS AVAILABLE FROM THE AIR RESOURCES BOARD. ARCHITECTURAL COATINGS SUGGESTED CONTROL MEASURE, FEB. 1, 2006. MORE INFORMATION IS AVAILABLE FROM THE AIR RESOURCES BOARD. ARCHITECTURAL COATINGS SUGGESTED CONTROL MEASURE, FEB. 1, 2006. MORE INFORMATION IS AVAILABLE FROM THE AIR RESOURCES BOARD. ARCHITECTURAL COATINGS SUGGESTED CONTROL MEASURE, FEB. 1, 2006. MORE INFORMATION IS AVAILABLE FROM THE AIR RESOURCES BOARD. ARCHITECTURAL COATINGS SUGGESTED CONTROL MEASURE, FEB. 1, 2006. MORE INFORMATION IS AVAILABLE FROM THE AIR RESOURCES BOARD.  5.504.4.4.4.1 Carpet Systems. All carpet installed in the building interior shall meet at least one of the testing and product requirements.  1. Carpet and Rug Institute'S Green Label Plus Program.  2. Compliant with the Colloborative for high Performance Schools California (2014 CA-CHPS) Criteria Islated in the CHPS High Performance Product Database.  5.504.4.4.1 Carp	REACTIVE PENETRATING SEALERS	350		
RUST PREVENTATIVE COATINGS  SHELLACS:  CLEAR  730  OPAQUE  550  STAINS  STONE CONSOLIDANTS  A 550  SWIMMING POOL COATINGS  TRAFFIC MARKING COATINGS  100  TRAFFIC MARKING COATINGS  450  WOOD COATINGS  420  WATERPROOFING MEMBRANES  256  WOOD COATINGS  275  WOOD PRESERVATIVES  350  ZINC-RICH PRIMERS  275  WOOD PRESERVATIVES  350  ZINC-RICH PRIMERS  340  100  THE SPECIFIED LIMITS REMAIN IN EFFECT UNLESS REVISED LIMITS ARE LISTED IN SUBSEQUENT COLUMNS IN THE TABLE.  11 GRANS OF VOO PER LITER OF COATING, INCLUDING WATER & EXEMPT COMPOUNDS  2 THE SPECIFIED LIMITS REMAIN IN EFFECT UNLESS REVISED LIMITS ARE LISTED IN SUBSEQUENT COLUMNS IN THE TABLE.  3 AULUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, ARCHITECTURAL COATINGS SUSGESTED CONTROL MEASURE, FEB. 1, 2008. MORE INFORMATION IS AVAILABLE RROM THE AIR RESOURCES BOARD COMPANDED CONTROL MEASURE, FEB. 1, 2008. MORE INFORMATION IS AVAILABLE RROM THE AIR RESOURCES BOARD CONTROL MEASURE, FEB. 1, 2008. MORE INFORMATION IS AVAILABLE RROM THE AIR RESOURCES CONTROL MEASURE, FEB. 1, 2008. MORE INFORMATION IS AVAILABLE RROM THE AIR RESOURCES CONTROL MEASURE, FEB. 1, 2008. MORE INFORMATION IS AVAILABLE RROM THE AIR RESOURCES BOARD CONTROL MEASURE, FEB. 1, 2008. MORE INFORMATION IS AVAILABLE RROM THE AIR RESOURCES BOARD CONTROL MEASURE, FEB. 1, 2008. MORE INFORMATION IS AVAILABLE RROM THE AIR RESOURCES BOARD CONTROL MEASURE, FEB. 1, 2008. MORE INFORMATION IS AVAILABLE RROM THE AIR RESOURCES BOARD CONTROL MEASURE FEB. 1, 2008. MORE INFORMATION IS AVAILABLE RROM THE AIR RESOURCES BOARD CONTROL MEASURE.  5.504.4.2 Carpet and Ruy Institute's Green Label Plus Program.  2 Compliant with the Cold Central Find Transition of Institute of The Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers, Version 1.1, February 2010 (also known as CDPH Standard Method V1.1 or Specification 01350).  3. NEFANANS 1140 at the Gold level or higher Performance Schools California (2014 CA-CHPS) Criteria lis			X	
SHELLACS: CLEAR OPAQUE  SPECIALTY PRIMERS, SEALERS & UNDERCOATERS 100  STAINS 250  STONE CONSOLIDANTS 450  STONE CONSOLIDANTS 450  STONE CONSOLIDANTS 450  TRAFFIC MARKING COATINGS 100  TRAFFIC MARKING COATINGS 100  TUB & TILE REFINISH COATINGS 420  WATERPROPING MEMBRANES 250  WOOD COATINGS 275  WOOD CATINGS 340  I. GRAMS OF VOC PER LITER OF COATING, INCLUDING WATER & EXEMPT COMPOUNDS 2 THE SPECIFIED LIMITS REMAIN IN EFFECT UNLESS REVISED LIMITS ARE LISTED IN SUBSEQUENT COLUMNS IN THE TABLE. 3 VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA ARE RESOURCES BOARD, ARCHITECTURAL COATINGS SUGGESTED CONTROL MEASURE, FEB. 1, 2008. MORE INFORMATION IS AVAILABLE FROM THE AIR RESOURCES BOARD.  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 at least one of the testing and product requirements: 2. Compliant with the VOC-emission limits and testing equirements specified in the California Discontinum of the Compliant with the VOC-emission limits and testing equirements specified in the California Discontinum of the California Discontinum				
CLEAR OPAQUE S550 SPECIALTY PRIMERS, SEALERS & UNDERCOATERS 100 STAINS 100 STAINS 250 STONE CONSOLIDANTS 450 SWIMMING POOL COATINGS 100 TUB & TILE REFINISH COATINGS 100 TUB & TILE REFINISH COATINGS 100 WATERPROOFING MEMBRANES 250 WOOD COATINGS 275 WOOD COATINGS 275 WOOD COATINGS 275 SINC-RICH PRIMERS 360 ZINC-RICH PRIMERS 360 ZI		250		
OPAQUE 550  SPECIALTY PRIMERS, SEALERS & UNDERCOATERS 100  STAINS 250  STONE CONSOLIDANTS 450  STONE CONSOLIDANTS 450  STONE CONSOLIDANTS 450  STONE CONSOLIDANTS 450  SWIMMING POOL COATINGS 100  TRAFFIC MARKING COATINGS 100  WATERPROOFING MEMBRANES 250  WOOD COATINGS 275  WOOD PRESERVATIVES 350  WOOD PRESERVATIVES 350  ZINC-RICH PRIMERS 340  I GRAMS OF VOC PER LITER OF COATING, INCLUDING WATER & EXEMPT COMPOUNDS 340  2 THE SPECIFIED LIMITS REMAIN IN EFFECT UNLESS REVISED LIMITS ARE LISTED IN SUBSEQUENT COLUMNS IN THE TABLE. 3 VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD. ARCHITECTURAL COATINGS SUGGESTED CONTROL MEASURE, FEB. 1, 2008. MORE INFORMATION IS AVAILABLE FROM THE AIR RESOURCES BOARD. ARCHITECTURAL COATINGS SUGGESTED CONTROL MEASURE, FEB. 1, 2008. MORE INFORMATION IS AVAILABLE FROM THE AIR RESOURCES BOARD. ARCHITECTURAL COATINGS SUGGESTED CONTROL MEASURE, FEB. 1, 2008. MORE INFORMATION IS AVAILABLE FROM THE AIR RESOURCES BOARD.  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. Manufacturers product specification: 1. Carpet and Rug Institute's Green Label Plus Program.  2. Compliant with the VOC-emission limits and testing requirements specified in 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 1.1, February 2010 (also known as CDPH Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers, Version 1.1, February 2010 (also known as CDPH Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Us		730	$\boxtimes$	
STAINS  STONE CONSOLIDANTS  250  STONE CONSOLIDANTS  450  SWIMMING POOL COATINGS  100  TUB & TILE REFINISH COATINGS  100  WATERPROOFING MEMBRANES  250  WOOD COATINGS  275  WOOD CATINGS  275  WOOD PRESERVATIVES  350  ZINC-RICH PRIMERS  340  1. GRAMS OF VOC PER LITER OF COATING, INCLUDING WATER & EXEMPT COMPOUNDS  2. THE SPECIFIED LIMITS REMAIN IN EFFECT UNLESS REVISED LIMITS ARE LISTED IN SUBSEQUENT COLUMNS IN THE TABLE.  3. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, ARCHITECTURAL COATINGS SUGGESTED CONTROL MEASURE, FEB. 1, 2008. MORE INFORMATION IS AVAILABLE FROM THE AIR RESOURCES BOARD.  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. Manufacture'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 at least one of the testing and product requirements:  1. Carpet and Rug Institute's Green Label Plus Program.  2. Compliant with the VOC-emission limits and testing requirements specified in the California Department of Public Health Standard Method for the Testing and Evaluation of Volatile Organic Department of Public Health Standard Method for the Testing and Evaluation of Volatile Organic Standard Method for the Testing and Evaluation of Volatile Organic Public Health Standard Method for the Testing and Evaluation of Volatile Organic Department of Public Health Standard Method for the Testing and Evaluation of Volatile Organic Standard Method for the Testing and Evaluation of Volatile Organic Public Health Standard Method for the Testing and Evaluation of Volatile Organic Public Health Standard Method for the Testing and Evaluation of Volatile Organic Department of Public Health Standard Method for the Testing and Evaluation of Volatile Organic Public Health Standard Method for the Testing and Evaluation of V				
STAINS  STONE CONSOLIDANTS  \$450  SWIMMING POOL COATINGS  \$40  TRAFFIC MARKING COATINGS  \$100  TUB & TILE REFINISH COATINGS  \$420  WATERPROOFING MEMBRANES  \$250  WOOD COATINGS  \$275  WOOD PRESERVATIVES  \$350  ZINC-RICH PRIMERS  \$340  \$350  ZINC-RICH PRIMERS  \$350  IN GRAMS OF VOC PER LITER OF COATING, INCLUDING WATER & EXEMPT COMPOUNDS  2. THE SPECIFIED LIMITS REMAIN IN EFFECT UNLESS REVISED LIMITS ARE LISTED IN SUBSEQUENT COLUMNS IN THE TABLE.  RACHITECTURAL COATINGS SUGGESTED CONTROL MEASURE, FEB. 1, 2008. MORE INFORMATION IS AVAILABLE FROM THE AIR RESOURCES BOARD.  \$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  5.504.4.3.2 Verification of on-site product containers  5.504.4.3 Superal Systems. All carpet installed in the building interior shall meet at least one of the testing and product requirements:  1. Carpet and Rug Institute's Green Label Plus Program  2. Compliant with the COGIl evel or higher;  4. Scientific Certifications Systems Sustainable Choice; or  5.504.4.1.1 Carpet cushion. All carpet cushion installed in the building interior shall meet the requirements for formaldehyles as specified in Collaborative for High Performance Schools California (2014 CA-CHPS) Criteria listed in the CHPS High Performance Product Database.  5.504.4.1.2 Carpet cushion. All carpet cushion installed in the building interior shall meet the requirements for formaldehyles as specified in ARB'S AIT Toxics Control Measure (ATCM) for Composite Wood (17 CCR 93120 et seq.). Those mate	SPECIALTY PRIMERS. SEALERS & UNDERCOATERS	100	X	
STONE CONSOLIDANTS  WIMMING POOL COATINGS  TRAFFIC MARKING COATINGS  100  TUB & TILE REFINISH COATINGS  WATERPROOFING MEMBRANES  250  WOOD COATINGS  WOOD PRESERVATIVES  350  ZINC-RICH PRIMERS  1. GRANK OF VOC PER LITER OF COATING, INCLUDING WATER & EXEMPT COMPOUNDS  2. THE SPECIFIED LIMITS REMAIN IN EFFECT UNLESS REVISED LIMITS ARE LISTED IN SUBSEQUENT COLUMNS IN THE TABLE.  3. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, ARCHITECTURAL COATINGS SUGGESTED CONTROL MEASURE, FEB. 1, 2008. MORE INFORMATION IS AVAILABLE FROM THE AIR RESOURCES BOARD.  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  5.504.4.2 Carpet Systems. All carpet installed in the building interior shall meet at least one of the testing and product requirements:  1. Carpet and Rug Institute's Green Label Plus Program.  2. Compliant with the VOC-emission limits and testing requirements specified in 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 1.1, February 2010 (also known as CDPH Standard Method V1.1 or Specification 01350).  3. NSF/ANSI 140 at the Gold level or higher; 4. Scientific Certifications Systems Sustainable Choice; or 5.504.4.4.1 Carpet and Rug Institute of the Department of Public Health Standard Method V1.1 or Specification (2014 CA-CHPS) Criteria listed in the CHPS High Performance Product Database.  5.504.4.2 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 of Tomaldehyde as spec				
SWIMMING POOL COATINGS  TRAFFIC MARKING COATINGS  100  TUB & TILE REFINISH COATINGS  WATERPROOFING MEMBRANES  250  WOOD COATINGS  275  WOOD PRESERVATIVES  350  INC-RICH PRIMERS  340  1. GRAMS OF VOC PER LITER OF COATING, INCLUDING WATER & EXEMPT COMPOUNDS  2. THE SPECIFIED LIMITS REMAIN IN EFFECT UNLESS REVISED LIMITS ARE LISTED IN SUBSEQUENT COLUMNS IN THE TABLE.  3. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, ARCHITECTURAL COATINGS SUGGESTED CONTROL MEASURE, FEB. 1, 2008. MORE INFORMATION IS AVAILABLE FROM THE AIR RESOURCES BOARD.  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 at least one of the testing and product requirements:  1. Carpet and Rug Institute's Green Label Plus Program.  2. Compliant with the VOC-amission limits and testing requirements specified in 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 1.1, February 2010 labs Grown as CDFH Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Public Profumance Schools California (2014 CA-CHPS) Criteria listed in the CHPS High Performance Product Dalabase.  5.504.4.1 Carpet cushion. All carpet cushion installed in the building interior shall meet the requirements of the Carpet and Rug Institute Green Label program.  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 (				
TUB & TILE REFINISH COATINGS  WATERPROOFING MEMBRANES  250  WOOD COATINGS  275  WOOD PRESERVATIVES  350  ZINC-RICH PRIMERS  350  ZINC-RICH PRIMERS  340  1. GRAMS OF VOC PER LITER OF COATING, INCLUDING WATER & EXEMPT COMPOUNDS  2. THE SPECIFIED LIMITS REMAIN IN EFFECT UNLESS REVISED LIMITS ARE LISTED IN SUBSEQUENT COLUMNS IN THE TABLE.  3. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD. ARCHITECTURAL COATINGS SUGGESTED CONTROL MEASURE, FEB. 1, 2008. MORE INFORMATION IS AVAILABLE FROM THE AIR RESOURCES BOARD.  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 at least one of the testing and product requirements:  1. Carpet and Rug Institute's Green Label Plus Program.  2. Compliant with the VOC-emission limits and testing requirements specified in 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 1.1, February 2010 (also known as CDPH Standard Method V1.1 or Specification 01350).  3. NSF/ANSI 140 at the Gold level or higher:  4. Scientific Certifications Systems Sustainable Choice; or  5. Compliant with the Collaborative for High Performance Schools California (2014 CA-CHPS) Criteria listed in the CHPS High Performance Product Database.  5.504.4.1 Carpet adhesive. All carpet cushion installed in the building interior shall meet the requirements of the Carpet and Rug Institute Green Label program.  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 formatlehyde as specif				
WATERPROOFING MEMBRANES  250  WOOD COATINGS  275  WOOD PRESERVATIVES  350  ZINC-RICH PRIMERS  340  1. GRAMS OF VOC PER LITER OF COATING, INCLUDING WATER & EXEMPT COMPOUNDS  2. THE SPECIFIED LIMITS REMAIN IN REFECT UNLESS REVISED LIMITS ARE LISTED IN SUBSEQUENT COLUMNS IN THE TABLE.  3. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, ARCHITECTURAL COATINGS SUGGESTED CONTROL MEASURE, FEB. 1, 2008. MORE INFORMATION IS AVAILABLE FROM THE AIR RESOURCES BOARD.  5.504.4.2 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. Manufacture'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 at least one of the testing and product requirements:  1. Carpet and Rug Institute's Green Label Plus Program.  2. Compliant with the VOC-emission limits and testing requirements specified in 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 1.1, February 2010 (also known as CDPH Standard Method V1.1 or Specification 01350).  3. NSFANSI 140 at the Gold level or higher;  4. Scientific Certifications Systems Sustainable Choice; or  5.504.4.4.1 Carpet cushion. All carpet cushion installed in the building interior shall meet the requirements of the Carpet and Rug Institute Green Label program.  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 formadehyde 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.	TRAFFIC MARKING COATINGS	100		
WOOD COATINGS  275  WOOD PRESERVATIVES  350  ZINC-RICH PRIMERS  340  1. GRAMS OF VOC PER LITER OF COATING, INCLUDING WATER & EXEMPT COMPOUNDS  2. THE SPECIFIED LIMITS REMAIN IN EFFECT UNLESS REVISED LIMITS ARE LISTED IN SUBSEQUENT COLUMNS IN THE TABLE.  3. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, ARCHITECTURAL COATINOS SUGGESTED CONTROL MEASURE, FEB. 1, 2008. MORE INFORMATION IS AVAILABLE FROM THE AIR RESOURCES BOARD.  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 at least one of the testing and product requirements:  1. Carpet and Rug Institute's Green Label Plus Program.  2. Compliant with the VOC-emission limits and testing requirements specified in 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 1.1, February 2010 (also known as CDPH Standard Method V1.1 or Specification 01350).  3. NSFANSI 140 at the Gold level or higher;  4. Scientific Certifications Systems Sustainable Choice; or  5. Compliant with the Collaborative for High Performance Schools California (2014 CA-CHPS) Criteria listed in the CHPS High Performance Product Database.  5.504.4.4.1 Carpet cushion. All carpet dahesive 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 spe	TUB & TILE REFINISH COATINGS	420		
WOOD PRESERVATIVES  ZINC-RICH PRIMERS  340  1. GRAMS OF VOC PER LITER OF COATING, INCLUDING WATER & EXEMPT COMPOUNDS  2. THE SPECIFIED LIMITS REMAIN IN EFFECT UNLESS REVISED LIMITS ARE LISTED IN SUBSEQUENT COLUMNS IN THE TABLE.  3. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, ARCHITECTURAL COATINGS SUGGESTED CONTROL MEASURE, FEB. 1, 2008. MORE INFORMATION IS AVAILABLE FROM THE AIR RESOURCES BOARD.  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 at least one of the testing and product requirements:  1. Carpet and Rug Institute's Green Label Plus Program.  2. Compliant with the VOC-emission limits and testing requirements specified in 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 1.1, February 2010 (also known as CDPH Standard Method V1.1 or Specification 01350).  3. NSF/ANS1 140 at the Gold level or higher;  4. Scientific Certifications Systems Sustainable Choice; or  5. Compliant with the Collaborative for High Performance Schools California (2014 CA-CHPS) Criteria listed in the CHPS High Performance Product Database.  5.504.4.4.1 Carpet cushion. 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,	WATERPROOFING MEMBRANES	250		
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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 European 636 3S standards.	<ol> <li>Carpet and Rug Institute's Green Label Plus Program.</li> <li>Compliant with the VOC-emission limits and testing req Department of Public Health Standard Method for the T Chemical Emissions from Indoor Sources Using Enviro 2010 (also known as CDPH Standard Method V1.1 or \$3. NSF/ANSI 140 at the Gold level or higher;</li> <li>Scientific Certifications Systems Sustainable Choice; of Compliant with the Collaborative for High Performance listed in the CHPS High Performance Product Database</li> <li>5.504.4.4.1 Carpet cushion. All carpet cushion instance requirements of the Carpet and Rug Institute Green</li> <li>5.504.4.4.2 Carpet adhesive. All carpet adhesive should be specified in ARB's Air Toxics Control Measure (aseq.). Those materials not exempted under the ATCM must meet Table 5.504.4.5.</li> <li>5.504.4.5.3 Documentation. Verification of compliat requested by the enforcing agency. Documentations</li> <li>Product certifications and specifications.</li> <li>Chain of custody certifications.</li> <li>Product labeled and invoiced as meeting the CCR, Title 17, Section 93120, et seq.).</li> </ol>	resting and Evaluation of Volatile Organic Inmental Chambers, Version 1.1, February Specification 01350).  or Schools California (2014 CA-CHPS) Criteria e.  alled in the building interior shall meet the Label program.  nall meet the requirements of Table 5.504.4.  icleboard and medium density fiberboard uildings shall meet the requirements for ATCM) for Composite Wood (17 CCR 93120) the specified emission limits, as shown in since with this section shall be provided as shall include at least one of the following:	1. O et	

**5.508.2.1 Refrigerant piping.** Piping compliant with the California Mechanical Code shall be installed to be TABLE 5.504.4.5 - FORMALDEHYDE LIMITS 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 MAXIMUM FORMALDEHYDE EMISSIONS IN PARTS PER MILLION refrigerant systems except as noted below. **CURRENT LIMIT 5.508.2.1.1 Threaded pipe.** Threaded connections are permitted at the compressor rack. HARDWOOD PLYWOOD VENEER CORE 0.05 **5.508.2.1.2 Copper pipe.** Copper tubing with an OD less than 1/4 inch may be used in systems with a HARDWOOD PLYWOOD COMPOSITE CORE 0.05 refrigerant charge of 5 pounds or less. PARTICLE BOARD 0.09 **5.508.2.1.2.1 Anchorage.** One-fouth-inch OD tubing shall be securely clamped to a rigid base to keep vibration levels below 8 mils MEDIUM DENSITY FIBERBOARD 0.11 **5.508.2.1.3 Flared tubing connections.** Double-flared tubing connections may be used for pressure THIN MEDIUM DENSITY FIBERBOARD2 0.13 controls, valve pilot lines and oil. 1. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD. AIR TOXICS CONTROL MEASURE FOR COMPOSITE WOOD AS TESTED IN ACCORDANCE WITH ASTM E 1333. FOR **Exception:** Single-flared tubing connections may be used with a multiring seal coated with ADDITIONAL INFORMATION, SEE CALIFORNIA CODE OF REGULATIONS, TITLE 17, SECTIONS 93120 THROUGH industrial sealant suitable for use with refrigerants and tightened in accordance with manufacturer's 2. THIN MEDIUM DENSITY FIBERBOARD HAS A MAXIMUM THICKNESS OF 5/16 INCHES (8 MM). **5.508.2.1.4 Elbows.** Short radius elbows are only permitted where space limitations prohibit use of **5.504.4.6 Resilient flooring systems.** For 80 percent of floor area receiving resilient flooring, installed resilient flooring shall meet at least one of the following: 5.508.2.2 Valves. Valves Valves and fittings shall comply with the California Mechanical Code and as 1. Certified under the Resilient Floor Covering Institute (RFCI) FloorScore program; 2. Compliant with the VOC-emission limits and testing requirements specified in the California **5.508.2.2.1 Pressure relief valves.** For vessels containing high-GWP refrigerant, a rupture disc shall Department of Public Health's 2010 Standard Method for the Testing and Evaluation Chambers, be installed between the outlet of the vessel and the inlet of the pressure relief valve. Version 1.1, February 2010; 3. Compliant with the Collaborative for High Performance Schools California (2014 CA-CHPS) Criteria **5.508.2.2.1.1 Pressure detection.** A pressure gauge, pressure transducer or other device shall and listed in the CHPS High Performance Product Database; or be installed in the space between the rupture disc and the relief valve inlet to indicate a disc 4. Products certified under UL GREENGUARD Gold (formerly the Greenguard Children's & Schools 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 **5.504.4.6.1 Verification of compliance.** Documentation shall be provided verifying that resilient flooring materials meet the pollutant emission limits. 5.508.2.2.2.1 Valve caps. For systems with a refrigerant charge of 5 pounds or more, valve caps 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 shall be brass or steel and not plastic 13. MERV 13 filters shall be installed prior to occupancy, and recommendations for maintenance with filters of **5.508.2.2.2.2 Seal caps.** If designed for it, the cap shall have a neoprene O-ring in place. the same value shall be included in the operation and maintenance manual. **5.508.2.2.2.1 Chain tethers.** Chain tethers to fit ovr the stem are required for valves **Exceptions:** Existing mechanical equipment. designed to have seal caps. **5.504.5.3.1 Labeling.** Installed filters shall be clearly labeled by the manufacturer indicating the MERV 5.504.7 ENVIRONMENTAL TOBACCO SMOKE (ETS) CONTROL. Where outdoor areas are provided for smoking. 5.508.2.3 Refrigerated service cases. Refrigerated service cases holding food products containing vinegar and 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 requiations: or as enforced by ordinances, requiations or policies of any city corrosion from these substances. 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 **5.508.2.3.1 Coil coating.** Consideration shall be given to the heat transfer efficiency of coil coating to signage to inform building occupants of the prohibitions. maximize energy efficiency **5.508.2.4 Refrigerant receivers.** Refrigerant receivers with capacities greater than 200 pounds shall be fitted with a device tha indicates the level of refrigerant in the receiver. **SECTION 5.505 INDOOR MOISTURE CONTROL** 5.505.1 INDOOR MOISTURE CONTROL. Buildings shall meet or exceed the provisions of California Building Code, **5.508.2.5 Pressure testing.** The system shall be pressure tested during installation prior to evacuation and CCR, Title 24, Part 2, Sections 1202 (Ventilation) and Chapter 14 (Exterior Walls). For additional measures, see **5.508.2.5.1 Minimum pressure.** The system shall be charged with regulated dry nitrogen and **SECTION 5.506 INDOOR AIR QUALITY** appropriate tracer gas to bring system pressure up to 300 psig minimum. **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 **5.508.2.5.2 Leaks.** Check the system for leaks, repair any leaks, and retest for pressure using the same 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 **5.508.2.5.3 Allowable pressure change.** The system shall stand, unaltered, for 24 hours with no more ventilation, CO2 sensors and ventilation controls shall be specified and installed in accordance with the requirements than a +/- one pound pressure change from 300 psig, measured with the same gauge. of the California Energy Code, Section 120(c)(4). **5.508.2.6 Evacuation.** The system shall be evacuated after pressure testing and prior to charging. **SECTION 5.507 ENVIRONMENTAL COMFORT** 5.507.4 ACOUSTICAL CONTROL. Employ building assemblies and components with Sound Transmission Class **5.508.2.6.1 First vacuum.** Pull a system vacuum down to at least 1000 microns (+/- 50 microns), and (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. 5.508.2.6.2 Second vacuum. Pull a second system vacuum to a minimum of 500 microns and hold for 30 **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 **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. 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 CHAPTER 7 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. 1. Ldn or CNEL for military airports shall be determined by the facility Air Installation Compatible responsibility of a person trained and certified to install HVAC systems or contractor licensed to install HVAC systems. Land Use Zone (AICUZ) plan. Examples of acceptable HVAC training and certification programs include but are not limited to the following: 2. Ldn 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 Ldn 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<sub>eq</sub> - 1-hr during any hour of operation shall have building, addition or alteration

**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

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 Site Features.** Exterior features such as sound walls or earth berms may be utilized as

**5.507.4.2.2 Documentation of Compliance.** An acoustical analysis documenting complying interior

appropriate to the building, addition or alteration project to mitigate sound migration to the interior.

5.507.4.3 Interior sound transmission. Wall and floor-ceiling assemblies separating tenant spaces and tenant

sound levels shall be prepared by personnel approved by the architect or engineer of record.

Note: Examples of assemblies and their various STC ratings may be found at the California Office of

**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.

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

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

5.508.2 Supermarket refrigerant leak reduction. New commercial refrigeration systems shall comply with the

utilize either refrigerated display cases, or walk-in coolers or freezers connected to remote compressor units or

**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

provisions of this section when installed in retail food stores 8,000 square feet or more conditioned area, and that

**5.508.1.1 Chlorofluorocarbons (CFCs).** Install HVAC, refrigeration and fire suppression equipment that do not

spaces and public places shall have an STC of at least 40.

SECTION 5.508 OUTDOOR AIR QUALITY

replacement of existing refrigeration systems in existing facilities.

DISCLAIMER: THIS DOCUMENT IS PROVIDED AND INTENDED TO BE USED AS A MEANS TO INDIVIDUAL NEEDS. THE END USER TO MEET THOSE INDIVIDUAL NEEDS. THE END USER ASSUMES ALL RESPONSIBILITY ASSOCIATED WITH THE USE OF THIS DOCUMENT, INCLUDING VERIFICATION WITH THE FULL CODE.

that include ammonia, carbon dioxide (CO<sub>2</sub>), and potentially other refrigerants.

Noise Control: www.toolbase.org/PDF/CaseStudies/stc\_icc\_ratings.pdf.

roof-ceiling assemblies exposed to the noise source making up the building or addition envelope or altered

at least 45 (or OITC 35), with exterior windows of a minimum STC of 40 (or OITC 30).

exterior wall and roof-ceiling assemblies exposed to the noise source meeting a composite STC rating of

**INSTALLER & SPECIAL INSPECTOR QUALIFICATIONS** 

**702 QUALIFICATIONS 702.1 INSTALLER TRAINING.** HVAC system 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

1. State certified apprenticeship programs. Public utility training programs. 3. Training programs sponsored by trade, labor or statewide energy consulting or verification organizations. 4. Programs sponsored by manufacturing organizations.

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

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: 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. Successful completion of a third party apprentice training program in the appropriate trade. 4. Other programs acceptable to the enforcing agency

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, 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.

CHULA VISTA, CA/

COSTCO WHOLESALE CORPORATION 999 LAKE DRIVE

ISSAQUAH, WA 98027

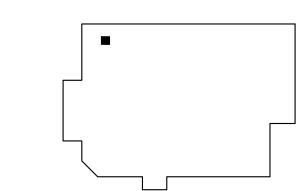
T: 425.313.8100

www.costco.com

1130 BROADWAY AVE. CHULA VISTA, CA 91911



PERMIT SET



NATHAN D. MENARD, ARCHITECT



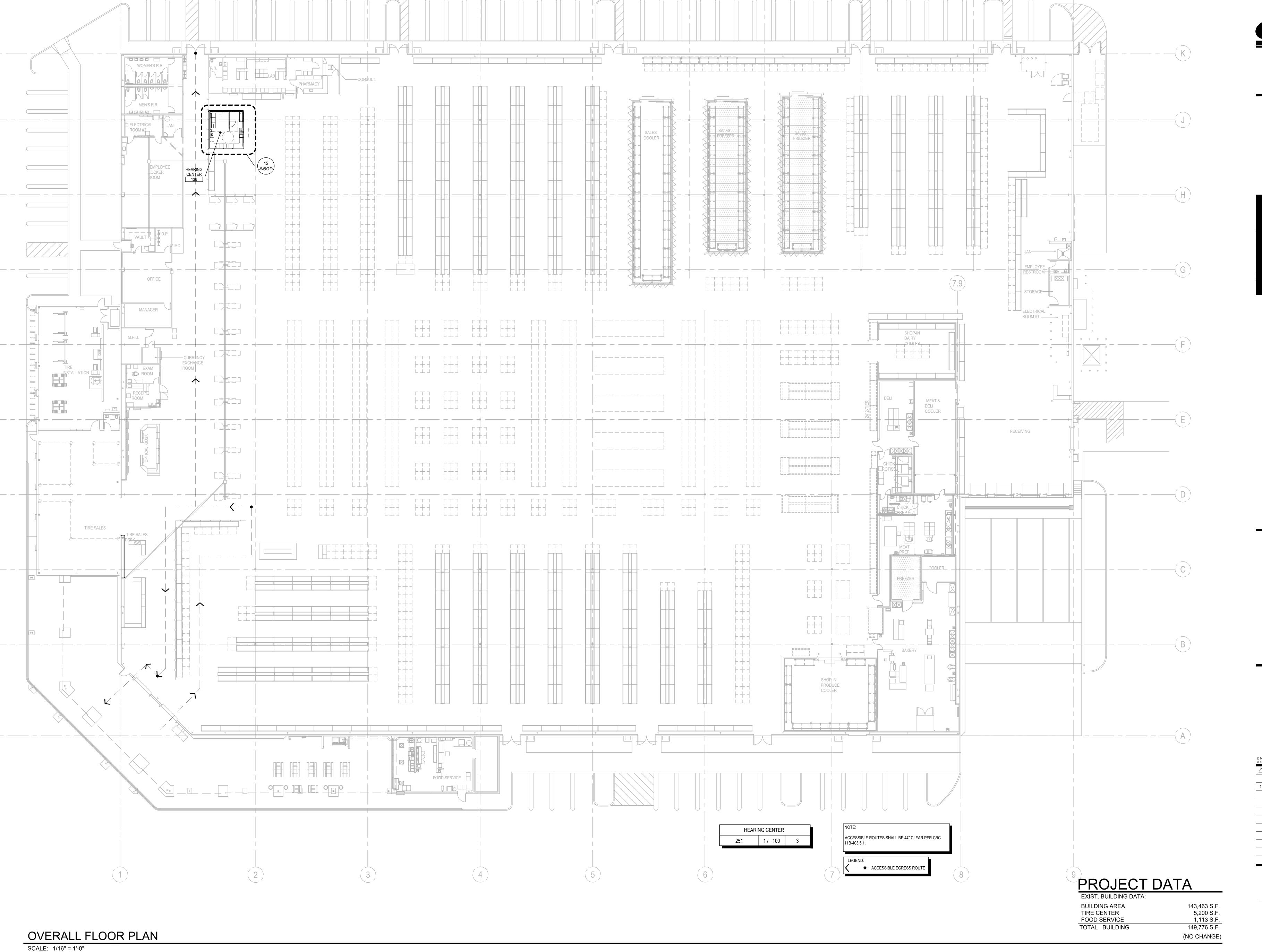
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1 | 09/30/22 | PLAN CHECK COMMENT #1

99-5890-20 PM: ARTURO REINA DRAWN: MH

CAL GREEN





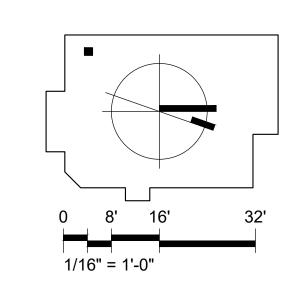
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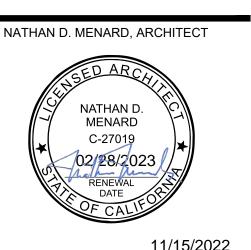
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**KEY PLAN** 

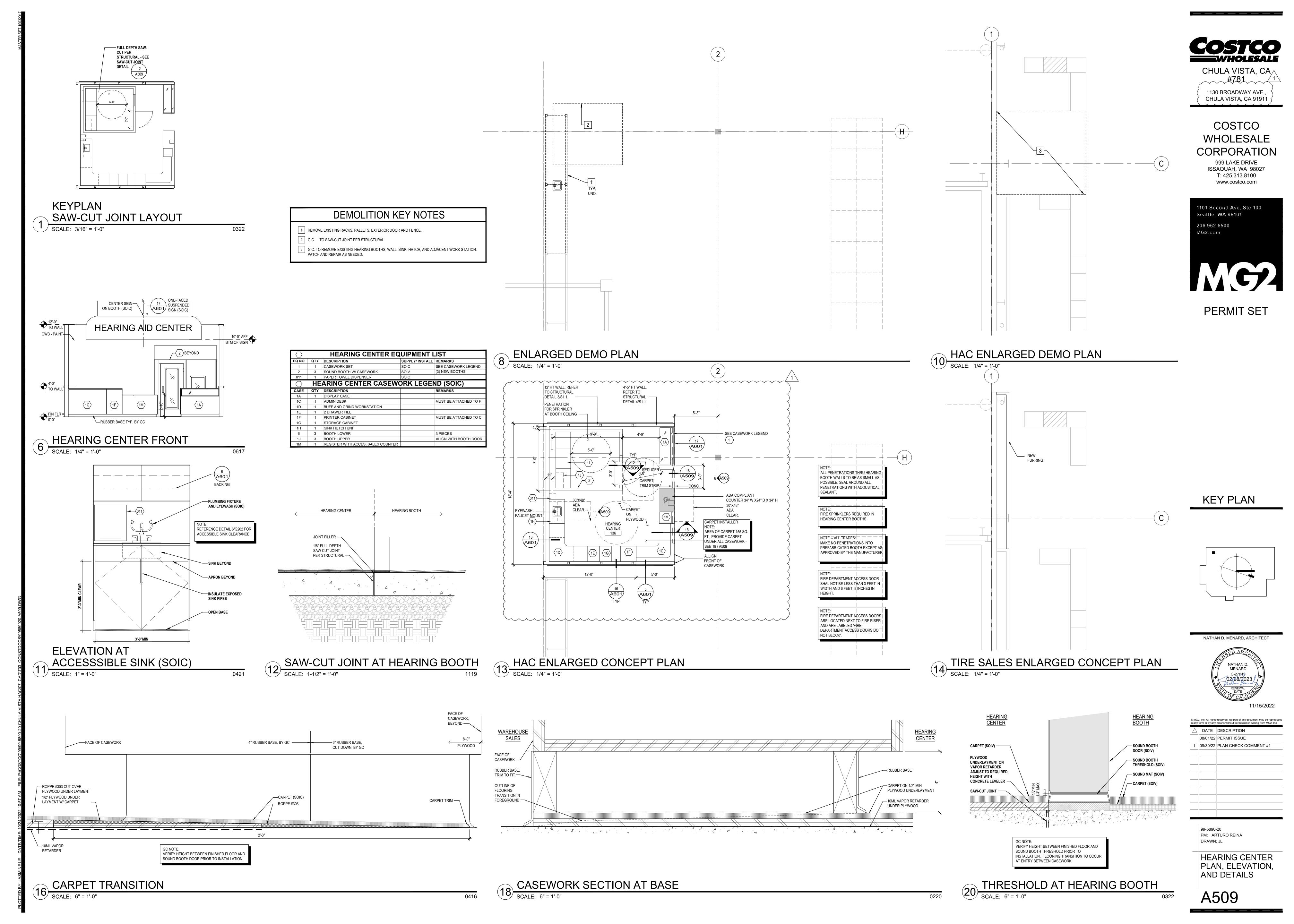


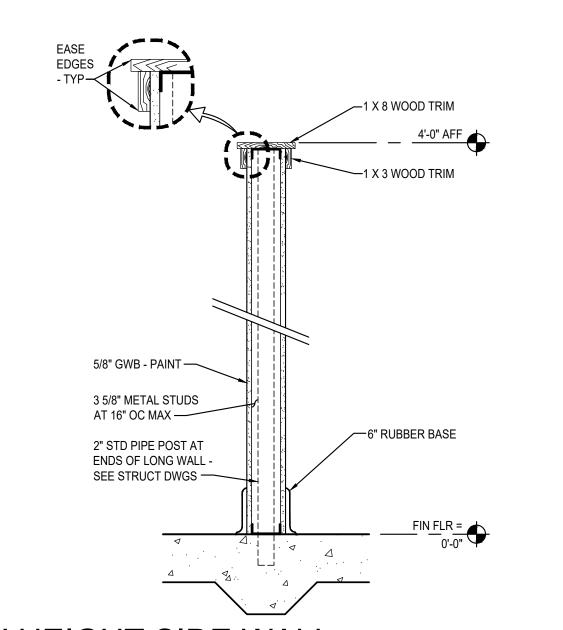


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OVERALL CONCEPT FLOOR PLAN





C CARPET TILE (SOIC)
GWB GYPSUM WALL BOARD

OTS OPEN TO STRUCTURE

CONC CONCRETE

RB-4 RUBBER BASE - 4" HIGH

PAINT - EGGSHELL FINISH

GWB ON STUD WALLS - PAINTED

PROVIDE BASE ON CASEWORK

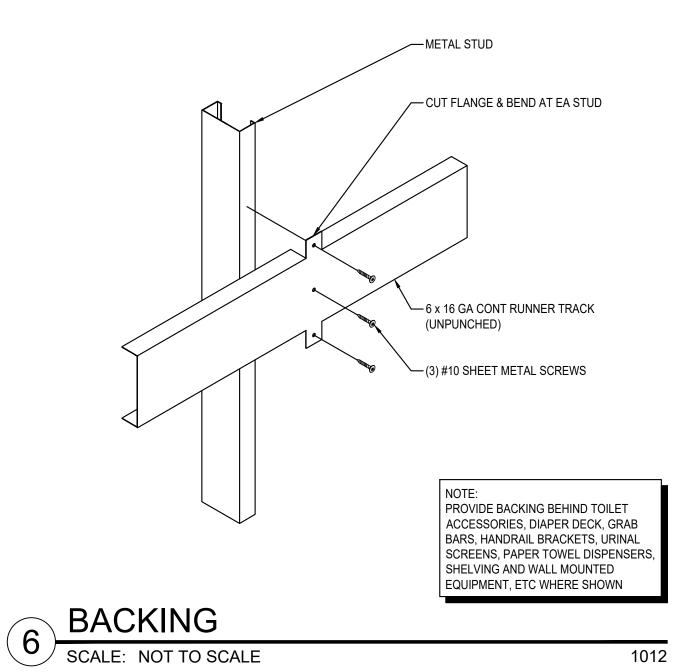
14. CHAIN LINK FENCE / GATE (SIO)

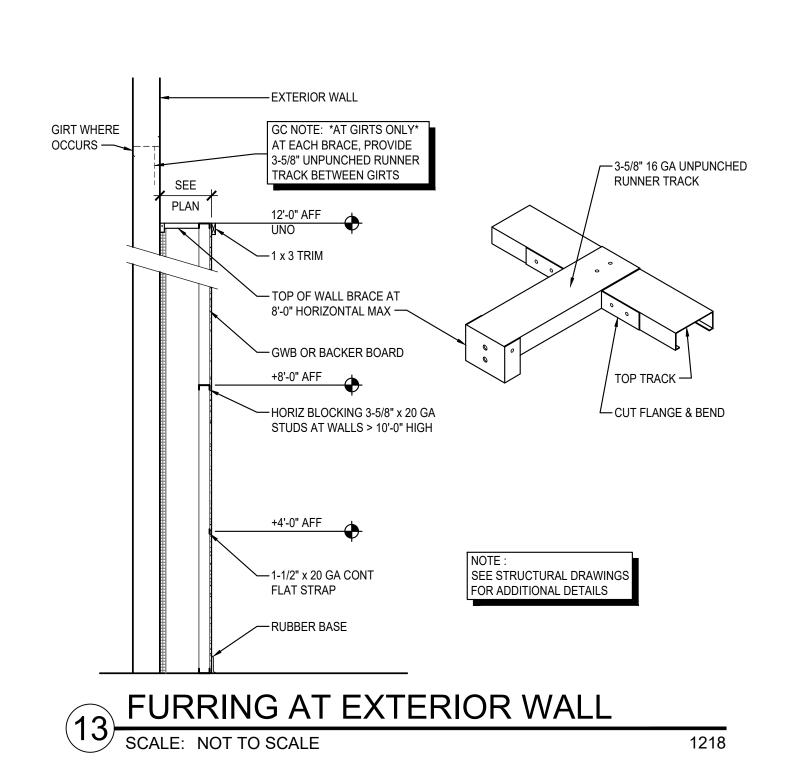
			F	ROOM	FINISH	SCH	EDULE					
			FLOO	R	BASE	<b>=</b>	WA	<b>LL</b>	С	EILING		REMARKS
LOCATION	NO	ROOM NAME	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	нт	(SEE NOTES BELOW)
HEARING	136	HEARING CENTER	С		RB-4		GWB	Р	OTS			2, 3

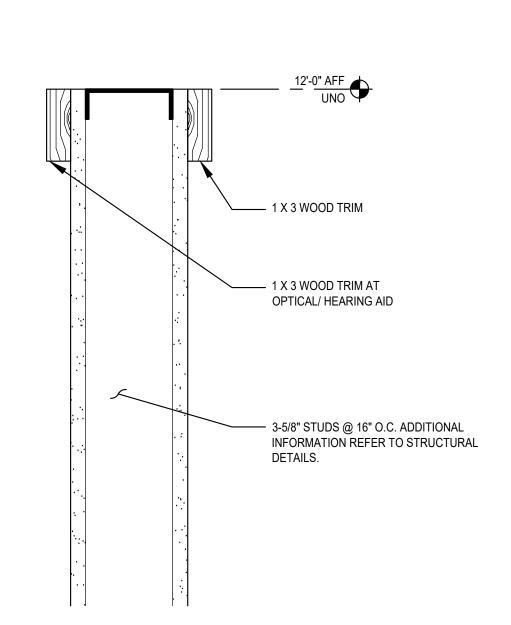
ROOM FINISH ABBREVIATION KEY
ROOM FINISH ADDREVIATION RET

ROOM FINISH REMARKS

## 5 4' HEIGHT SIDE WALL SCALE: 1" = 1'-0"

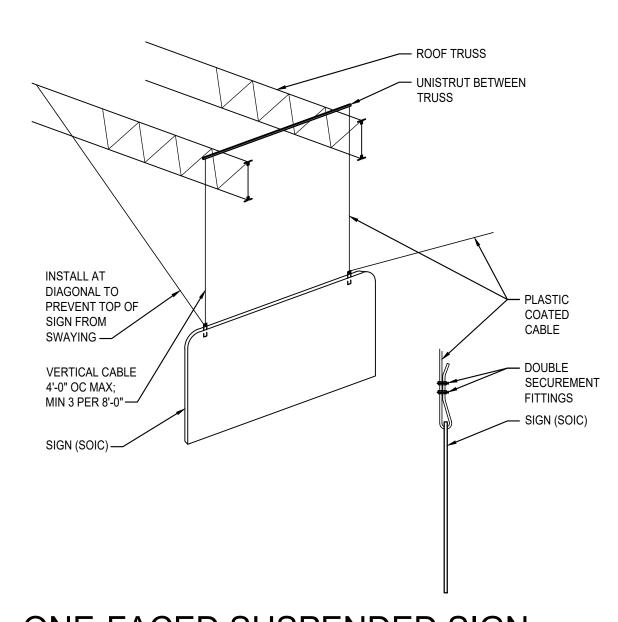


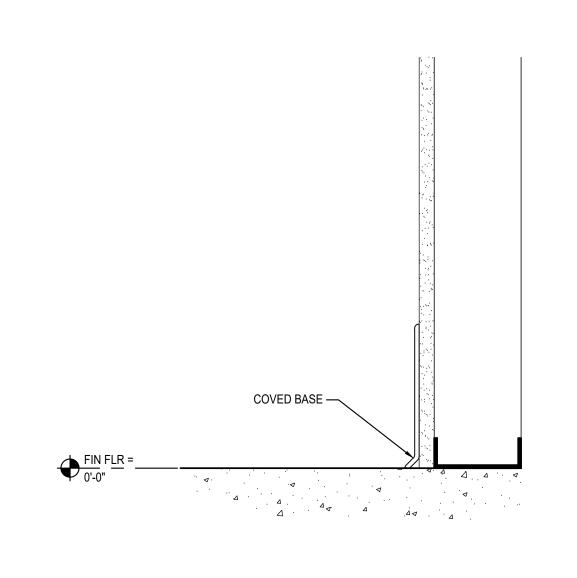




TOP OF WALLS

16 SCALE: 3" = 1'-0"





ONE-FACED SUSPENDED SIGN

SCALE: NOT TO SCALE 0914

TYPICAL RUBBER BASE

SCALE: 3" = 1'-0"

0212

COSTCO
WHOLESALE
CHULA VISTA, CA
#781

1130 BROADWAY AVE.,

CHULA VISTA, CA 91911

COSTCO WHOLESALE CORPORATION

999 LAKE DRIVE
ISSAQUAH, WA 98027
T: 425.313.8100
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PERMIT SET



—EXISTING WALL

INTERIOR

- THRESHOLD - SET IN

**FULL BED OF SEALANT** 

-EXISTING CONCRETE

0714

SLAB

MIN (2) ANCHORS

DOOR FRAME BEYOND

EXTERIOR

SEALANT BOTH SIDES ALL

AROUND - TYPICAL -

STEEL DOOR FRAME - PAINT —

A

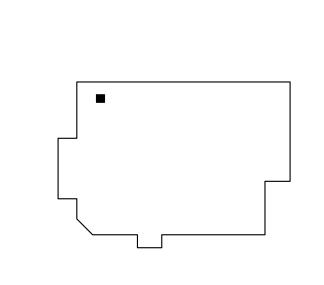
WEATHERSTRIP -

THRESHOLD —

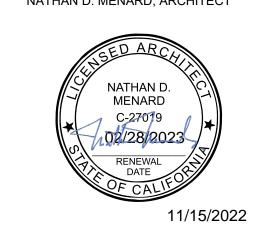
ESILL

20 EXTERIOR DOOR SIM

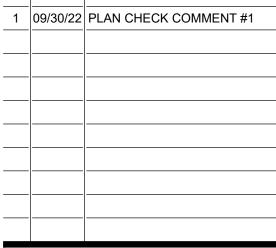
SCALE: 3" = 1'-0"



NATHAN D. MENARD, ARCHITECT



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99-5890-20 PM: ARTURO REINA DRAWN: MH

ROOM FINISH SCHEDULE AND TYPICAL INTERIOR DETAILS

A601

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Selections	made in Table O have been	changed by the permit applicant. See Ta	ble E. Additional Rema	rks for perm	it applican	t's explana	ition.			
F ADDITI	ONAL REMARKS									6
		ne permit applicant to the Authority Havi	na lurisdiction							
THIS CUDIC II	neiddes remarks made by ti	te permit applicant to the Authority Havi	ng sansaiction.							
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	SYSTEM SUMMARY (DRY	•								
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September 2020

NRCC-MCH-E Page 5 of 11

2021-09-08

September 2020

DCV or Occupant Sensor Controls

NA: Area <150 ft2 or design occupancy < 10 people

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

Mechanical Ventilation Required per §120.1(c)3<sup>3</sup>

09 10 11 12 13 14 15

Area (ft²) / toilets people<sup>5</sup> CFM

Conditioned # of # of Required Required Provided per Showerheads Provided per Provided per Provided Pr

Exh. Vent. per §120.1(c)4

Project Address: 1130 Bro I. SYSTEM CONTROLS Table Instructions: Complete requirements in §141.0(b).	ete the followi	a Vista, CA 919	911		Report P Date Pre			Page 4 of 11 2021-09-08
I. SYSTEM CONTROLS  Table Instructions: Complete requirements in §141.0(b).	ete the followi 2E for altered	ving Table to d			Date Pre	pared:		2021-09-08
Table Instructions: Comple requirements in §141.0(b)	<u>2E</u> for altered	_						
requirements in §141.0(b)	<u>2E</u> for altered	_						?
		cnace conditi	•	th mandatory co	ntrols in <u>§110.2</u> an	d <u>§120.2</u> and prescriptive o	controls in §140.4(	<u>f)</u> and <u>(n)</u> or
		03	04	05	06	07	08	09
System Name   System	Zoning F	fonditioned Floor Area eing Served (ft²)	Thermostats §110.2(b) & (c) <sup>1</sup> , §120.2(a) or §141.0(b)2E	Shut-Off Controls §120.2(e)	Isolation Zone Controls §120.2(g)	Demand Response §110.12 and §120.2(b)	Supply Air Temp. Reset §140.4(f)	Window Interlocks per §140.4(n)
IU-121 single :	zone ≤ 2	25,000 ft²	Setback Thermostat	Auto Timeswitch	NA: Single Zone	DR Tstat per §110.12	NA: Single Zone	NA: No operable windows
residential and hotel/mote	el occupancies	-				nts in <u>§120.1</u> and <u>§120.2(e</u> the permit application nee		
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Table Instructions: 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 <a href="https://www.energy.ca.gov/">https://www.energy.ca.gov/</a>

NRCA-MCH-02-A Outdoor Air must be submitted for all newly installed HVAC units.

NOTE: This form does not automatically move to "Yes". If Constant Volume Single Zone

HVAC Systems are included in the scope, permit applicant should move this form to

for all systems required to employ demand controlled ventilation (refer to §120.1(c)3) can vary outside ventilation flow rates based on maintaining interior carbon dioxide

Note: MCH02-A can be performed in conjunction with MCH-07-A Supply Fan VFD

Total System Required Min OA CFM  Total System Required Min OA Country System Required	Na: System < 2kW demand + man shutoff per \$120.2(e)3 exception		CU-1	All others	60.46	2	30	247		occupa	ancy < 10 pe	ople
<sup>1</sup> FOOTNOTES: System CFM should include both mechanical and natural ventilation for the zone/system. <sup>2</sup> Air filtration requirements apply to the following three system types per \$120.1(c)1A: space conditioning systems utilizing ducts to supply air to occupiable space; supply-or ventilation systems providing outside air to occupiable space; supply side of balanced ventilation systems including heat recovery and energy recovery ventilation systems providing outside air to occupiable space; supply-or ventilation systems including heat recovery and energy recovery ventilation systems providing outside air to occupiable space; supply side of balanced ventilation systems including heat recovery and energy recovery ventilation systems providing outside air to occupiable space; supply-or ventilation systems including heat recovery and energy recovery ventilation systems serviding occupands are required systems providing outside air to occupiable space; supply-or ventilation systems including heat recovery and energy recovery ventilation systems including provided by \$130.1(c) to heat lighting occupancy serving to see serving the systems including and including code.  § 26 Standards Tables 120.1-A and 120.1-B  § 6 For lecture halls with fixed seating, the expected number of occupants shall be determined in accordance with the California Building Code.  § 120.2(e)3 requires systems serving rooms that are required by \$130.1(c) to have lighting occupancy sensing controls to also have occupancy sensing zone controls for ventilation. Examples of spaces which require lighting occupancy sensors include offices 250ft <sup>2</sup> or smaller, multipurpose rooms less than 1,000ft <sup>2</sup> , classrooms, conference rooms, restrooms, aisles and open areas in warehouses, library book stack aisles, corridors, stainwells, parking garages, and loading and unloading zones, unless excepted by \$130.1(c).  K. TERMINAL BOX CONTROLS  This Section Does Not Apply  M. COOLING TOWERS  This Section Does Not Apply	<sup>1</sup> FOOTNOTES: System CFM should include both mechanical and natural ventilation for the zone/system. <sup>2</sup> Air filtration requirements apply to the following three system types per \$120.1(c)1A: space conditioning systems utilizing ducts to supply air to occupiable space; supply-oventilation systems providing outside air to occupiable space; supply side of balanced ventilation systems including heat recovery and energy recovery ventilation systems providing outside air to occupiable space; supply side of balanced ventilation systems including heat recovery and energy recovery ventilation systems providing outside air to occupiable space; supply side of balanced ventilation systems including heat recovery and energy recovery ventilation systems providing outside air to occupiable space; supply side of balanced ventilation systems including heat recovery and energy recovery ventilation systems providing outside air to occupiable space; supply side of balanced ventilation systems including heat recovery and energy recovery ventilation systems including per service of balanced ventilation systems including heat recovery and energy recovery ventilation systems including per service with little fills and the systems including per service with systems including per service went little in the course of the service service of balanced ventilation systems including per service went little and the service service with the california Building Code.  § 28 eStandards Tables 120.1-A and 120.1-B  § 60 lecture halls with fixed seating. He expected number of occupancy sensors include and accordance with the California Building Code.  § 28 eStandards Tables 120.1-A and 120.1-B  § 6120.12(e) requires systems serving Building Code.  § 28 eStandards Tables 120.1-A and 120.1-B  § 6120.12(e) requires systems serving Building Code.  § 29 eStandards Tables 120.1-A and 120.1-B  § 6120.12(e) requires systems serving Building Code.  § 29 eStandards Tables 120.1-A and 120.1-B  § 6120.12(e) requires systems serving Building Code.  § 2120.12(e			Allottiers	00.40		30	24/				
<sup>2</sup> Air filtration requirements apply to the following three system types per §120.1(c)1A; space conditioning systems utilizing ducts to supply air to occupiable space; supply-or ventilation systems providing outside air to occupiable space; supply side of balanced ventilation systems including heat recovery and energy recovery ventilation systems providing outside air to occupiable space. <sup>3</sup> Uniform Mechanical Code may have more stringent ventilation requirements; the most stringent code requirement takes precedence. <sup>4</sup> See Standards Tables 120.1-A and 120.1-B <sup>5</sup> For lecture halls with fixed seating, the expected number of occupants shall be determined in accordance with the California Building Code. <sup>6</sup> 5120.2(e)3 requires systems serving rooms that are required by §130.1(c) to have lighting occupancy sensing controls to also have occupancy sensing zone controls for ventilation. Examples of spaces which require lighting occupancy sensors include offices 250ft <sup>2</sup> or smaller, multipurpose rooms less than 1,000ft <sup>2</sup> , classrooms, conference rooms, restrooms, aisles and open areas in warehouses, library book stack aisles, corridors, stairwells, parking garages, and loading and unloading zones, unless excepted by §130.1(c).  K. TERMINAL BOX CONTROLS  This Section Does Not Apply  L. DETRIBUTION (DUCTWORK AND PIPING)  This Section Does Not Apply  M. COOLING TOWERS  This Section Does Not Apply	<sup>2</sup> Air filtration requirements apply to the following three system types per §120.1(c)1A: space conditioning systems utilizing ducts to supply air to occupiable space; supply-oventilation systems providing outside air to occupiable space. <sup>3</sup> Uniform Mechanical Code may have more stringent ventilation requirements; the most stringent code requirement takes precedence. <sup>4</sup> See Standards Tables 120.1-A and 120.1-B. <sup>5</sup> For lecture halls with fixed seating, the expected number of occupants shall be determined in accordance with the California Building Code. <sup>6</sup> \$120.2(e)3 requires systems serving rooms that are required by \$130.1(c) to have lighting occupancy sensing controls to also have occupancy sensing zone controls for ventilation. Examples of spaces which require lighting occupancy sensors include offices 250ft <sup>2</sup> or smaller, multipurpose rooms less than 1,000ft <sup>2</sup> , classrooms, conference rooms, restrooms, aisles and open areas in warehouses, library book stack aisles, corridors, stairwells, parking garages, and loading and unloading zones, unless excepted by \$130.1(c).  K. TERMINAL BOX CONTROLS  This Section Does Not Apply  L. DISTRIBUTION (DUCTWORK AND PIPING)  This Section Does Not Apply  M. COOLING TOWERS  This Section Does Not Apply		17	Total System Required Min OA CF	M	30	18	Ventilation for	or this Sy	stem Complies?	?	Yes
This Section Does Not Apply  L. DISTRIBUTION (DUCTWORK AND PIPING)  This Section Does Not Apply  M. COOLING TOWERS  This Section Does Not Apply	This Section Does Not Apply  L. DISTRIBUTION (DUCTWORK AND PIPING)  This Section Does Not Apply  M. COOLING TOWERS  This Section Does Not Apply	<sup>2</sup> Ail ven prov <sup>3</sup> Ur <sup>4</sup> Se <sup>5</sup> Fo <sup>6</sup> §1 ven rooi	r filtration red tilation systen viding outside niform Mecha e Standards T or lecture hall 20.2(e)3 requ tilation. Exar ms, restroom	quirements apply to the following to ms providing outside air to occupia e air to occupiable space. Inical Code may have more stringer Tables 120.1-A and 120.1-B, s with fixed seating, the expected raires systems serving rooms that an Imples of spaces which require light	hree system types ble space; supply some space; supply some space; supply some space; supply space; send occupancy send occupancy send occupancy send space; send occupancy send occupancy send object.	sper §120.1(c)1A: s side of balanced ve uirements; the most nts shall be determ 0.1(c) to have light asors include offices	pace conditioning s ntilation systems in stringent code red ined in accordance ing occupancy sens 250ft <sup>2</sup> or smaller,	ncluding heat recover quirement takes precent with the California B sing controls to also h multipurpose rooms	ry and en edence. Building C nave occu less thar	ergy recovery volumes ode. upancy sensing 2 1,000ft <sup>2</sup> , class	zentilation sy zone control srooms, conj	ls for ference
This Section Does Not Apply  L. DISTRIBUTION (DUCTWORK AND PIPING)  This Section Does Not Apply  M. COOLING TOWERS  This Section Does Not Apply	This Section Does Not Apply  L. DISTRIBUTION (DUCTWORK AND PIPING)  This Section Does Not Apply  M. COOLING TOWERS  This Section Does Not Apply			OY CONTROLS						_		
L. DISTRIBUTION (DUCTWORK AND PIPING)  This Section Does Not Apply  M. COOLING TOWERS  This Section Does Not Apply	L. DISTRIBUTION (DUCTWORK AND PIPING)  This Section Does Not Apply  M. COOLING TOWERS  This Section Does Not Apply									_		
This Section Does Not Apply  M. COOLING TOWERS  This Section Does Not Apply	This Section Does Not Apply  M. COOLING TOWERS  This Section Does Not Apply			, , , , , , , , , , , , , , , , , , , ,								
M. COOLING TOWERS This Section Does Not Apply	M. COOLING TOWERS This Section Does Not Apply	L. D	STRIBUTIO	N (DUCTWORK AND PIPING)								
This Section Does Not Apply	This Section Does Not Apply	This	Section Does	s Not Apply								
This Section Does Not Apply	This Section Does Not Apply	2.0	COOLING	DIMERC								
										_		
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards September	CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards Septembe									_		
		CA E	Building Energy	Efficiency Standards - 2019 Nonreside	ential Compliance: <u>h</u>	ttp://www.energy.ca	.gov/title24/2019sta	andards			S	eptember
		CTAT	E OF CALIFORNI									
										CALIFORNIA	ENERGY COM	MISSION
Mechanical Systems	Mechanical Systems		TIFICATE OF	COMPLIANCE								
Mechanical Systems  NRCC-MCH-E (Created 09/2020)  CERTIFICATE OF COMPLIANCE  NRCC-MCH-E (Created 09/2020)  CALIFORNIA ENERGY COMMISSION ON CALIFORNIA ENERGY C	CERTIFICATE OF COMPLIANCE							Report Page:				Page 8
Mechanical Systems  NRCC-MCH-E (Created 09/2020)  CERTIFICATE OF COMPLIANCE  Project Name: Costco Chula Vista Hearing Center Remodel  Report Page: Page 8	Mechanical Systems  NRCC-MCH-E (Created 09/2020)  CERTIFICATE OF COMPLIANCE  Project Name: Costco Chula Vista Hearing Center Remodel  Report Page: Page 8	Proj	ect Address:	1130 Broadway, Chula Vista, CA 9	1911			Date Prepared:				2021
Alechanical Systems       Alechanical Systems         RCC-MCH-E (Created 09/2020)       CALIFORNIA ENERGY COMMISSION DESCRIPTION OF COMPLIANCE	Mechanical Systems RCC-MCH-E (Created 09/2020) CALIFORNIA ENERGY COMMISSION ERRTIFICATE OF COMPLIANCE ROJect Name: Costco Chula Vista Hearing Center Remodel Report Page: Page	_	0	MDCA MCU 12 A FDD f	Dagkaged District F	vnancian Halt-						Тг
Alechanical Systems       RCC-MCH-E (Created 09/2020)     CALIFORNIA ENERGY COMMISSION       CERTIFICATE OF COMPLIANCE     NRCC-       roject Name:     Costco Chula Vista Hearing Center Remodel     Report Page:     Page	Mechanical Systems         RCC-MCH-E (Created 09/2020)       CALIFORNIA ENERGY COMMISSION         CERTIFICATE OF COMPLIANCE       NRCC-         roject Name:       Costco Chula Vista Hearing Center Remodel       Report Page:       Page         roject Address:       1130 Broadway, Chula Vista, CA 91911       Date Prepared:       2023		N. 2	INKLA-IVICH-17-A FDD for I	zackaged Direct Ex	mansion Units		1		I .	1 1	

NRCC-MCH-E

Field Inspector

Pass Fail

Systems To Be Field Verified

STATE OF CALIFORNIA

**Table Continued** 

Space Name or

Item Tag

08

Mechanical Systems NRCC-MCH-E (Created 09/2020) CERTIFICATE OF COMPLIANCE

Project Name: Costco Chula Vista Hearing Center Remodel Project Address: 1130 Broadway, Chula Vista, CA 91911

Report Page: Broadway, Chula Vista, CA 91911  Date Prepared:  NRCA-MCH-12-A FDD for Packaged Direct Expansion Units  NRCA-MCH-13-A Automatic FDD for Air Handling Units and Zone Terminal Units Acceptance  NRCA-MCH-14-A Distributed Energy Storage DX AC Systems Acceptance  NOTE: This form does not automatically move to "Yes". If Distributed Energy Storage DX AC Systems are included in the scope, permit applicant should move this form to "Yes".		Page 202
NRCA-MCH-12-A FDD for Packaged Direct Expansion Units  NRCA-MCH-13-A Automatic FDD for Air Handling Units and Zone Terminal Units Acceptance  NRCA-MCH-14-A Distributed Energy Storage DX AC Systems Acceptance  NOTE: This form does not automatically move to "Yes". If Distributed Energy Storage DX		202
NRCA-MCH-13-A Automatic FDD for Air Handling Units and Zone Terminal Units Acceptance  NRCA-MCH-14-A Distributed Energy Storage DX AC Systems Acceptance NOTE: This form does not automatically move to "Yes". If Distributed Energy Storage DX		
Acceptance  NRCA-MCH-14-A Distributed Energy Storage DX AC Systems Acceptance  NOTE: This form does not automatically move to "Yes". If Distributed Energy Storage DX		
NOTE: This form does not automatically move to "Yes". If Distributed Energy Storage DX		
NRCA-MCH-15-A Thermal Energy Storage (TES) System Acceptance  NOTE: This form does not automatically move to "Yes". If Chilled Water Storage, Ice-on- Coil Internal Melt, Ice-on-Coil External Melt, Ice Harvester, Brine, Ice-Slurry, Eutectic Salt, Clathrate Hydrate Slurry (CHS), Cryogenic or Encapulated (Ice Ball) Systems are included in the scope, permit applicant should move this form to "Yes".		
NRCA-MCH-16-A Supply Air Temperature Reset Controls		
NRCA-MCH-17-A Condenser Water Temperature Reset Controls		
NRCA-MCH-18 Energy Management Control Systems		
NRCA-MCH-19 Occupancy Sensor Controls		
NRCA-MCH-20 Multi-Family Ventilation		
NRCA-MCH-21 Multi-Family Envelope Leakage		
	Coil Internal Melt, Ice-on-Coil External Melt, Ice Harvester, Brine, Ice-Slurry, Eutectic Salt, Clathrate Hydrate Slurry (CHS), Cryogenic or Encapulated (Ice Ball) Systems are included in the scope, permit applicant should move this form to "Yes".  NRCA-MCH-16-A Supply Air Temperature Reset Controls  NRCA-MCH-17-A Condenser Water Temperature Reset Controls  NRCA-MCH-18 Energy Management Control Systems  NRCA-MCH-19 Occupancy Sensor Controls  NRCA-MCH-20 Multi-Family Ventilation	Coil Internal Melt, Ice-on-Coil External Melt, Ice Harvester, Brine, Ice-Slurry, Eutectic Salt, Clathrate Hydrate Slurry (CHS), Cryogenic or Encapulated (Ice Ball) Systems are included in the scope, permit applicant should move this form to "Yes".  NRCA-MCH-16-A Supply Air Temperature Reset Controls  NRCA-MCH-17-A Condenser Water Temperature Reset Controls  NRCA-MCH-18 Energy Management Control Systems  NRCA-MCH-19 Occupancy Sensor Controls  NRCA-MCH-20 Multi-Family Ventilation

	COMPLIANCE								NRC
	Costco Chula Vista Heari	_				Report Page:			Pag
Project Address:	1130 Broadway, Chula V	sta, CA 9191	1			Date Prepared:			202
Dry System Equip	oment Efficiency (other t	han Package	Terminal Air C	Conditioners (PTAC	) and Package Te	rminal Heat Pun	nps (PTHP))		
01	02		03	04	05	06	07	08	0:
				Heating M				Cooling Mode	
Name or Item Tag	Size Category (Btu/h)	Ratir	g Condition (°F)	Efficiency Unit	Min Efficiency Required per Tables 110.2/ Title 20	Design Efficiency	Efficiency Unit	Min Efficiency Required per Tables 110.2/ Title 20	Des Effici
CU-1	<65,000			HSPF	8	12.7	SEER	14	18
Table Instructions document the sys	Not Apply  S & AIR ECONOMIZERS  S: Complete the following  Stem details, then add far  ots and do not need to be	Table for fai s within tha	system to docu				•		
This Section Does  H. FAN SYSTEM  Table Instructions document the sys	S & AIR ECONOMIZERS: complete the following tem details, then add far	Table for far s within that included in T	system to docu	ument compliance	with fan power re		•		e exempt
H. FAN SYSTEM Table Instructions document the systhese requiremen	S & AIR ECONOMIZERS s: Complete the following stem details, then add far ats and do not need to be	Table for far s within that included in T	system to docu able H.	ument compliance	with fan power re		System Fan	nly process loads ar	e exempt
H. FAN SYSTEM Table Instructions document the systhese requirement System Name:  01 Fan Name or	S & AIR ECONOMIZERS: Complete the following stem details, then add far ats and do not need to be  CU-1 Econom	Table for far s within that included in T zer: <sup>1</sup> N 03	asystem to docu able H. A: ≤ 54 kBtu/h c 04 Maximum [	cooling Econo Contro  05  Design	mizer dis:  06  Design	equirements. Far	System Fan	Variable Air	Volume
H. FAN SYSTEM Table Instructions document the sys these requirement  System Name:	S & AIR ECONOMIZERS s: Complete the following stem details, then add far ats and do not need to be  CU-1  Econom	Table for fairs within that included in Table 2 value of the Table 2 val	asystem to docu able H. A: ≤ 54 kBtu/h c	cooling  Contro  O5  Design  Flow  HP Unit <sup>2</sup>	mizer ls:	equirements. Far	System Fan Type:  er Pressure Drop A	Variable Air	Volume
H. FAN SYSTEM Table Instructions document the systhese requirement System Name:  01 Fan Name or	S & AIR ECONOMIZERS: Complete the following stem details, then add far ats and do not need to be  CU-1 Econom	Table for far s within that included in T zer: <sup>1</sup> N 03	asystem to docu able H. A: ≤ 54 kBtu/h o 04 Maximum E Supply Air	cooling Econo Contro  05  Design flow HP Unit <sup>2</sup> Nameplate	mizer dis:  06  Design	equirements. Far 07 Fan Pow	System Fan Type:  er Pressure Drop A	Variable Air 08 djustment - Table 1	Volume
H. FAN SYSTEM Table Instructions document the systhese requirement  System Name:  01  Fan Name or Item Tag	S & AIR ECONOMIZERS s: Complete the following stem details, then add far its and do not need to be  CU-1 Econom  02  Fan Function	Table for far s within that included in T zer: <sup>1</sup> N 03	A: ≤ 54 kBtu/h c  O4  Maximum E  Supply Air (CFM)	cooling Econo Contro  05  Design flow HP Unit <sup>2</sup>	mizer ds:  06  Design HP  0.08	equirements. Far 07 Fan Pow	System Fan Type:  er Pressure Drop Are	Variable Air 08 djustment - Table 1	Volume
H. FAN SYSTEM Table Instructions document the systhese requirement  System Name:  01  Fan Name or Item Tag  IU-121	S & AIR ECONOMIZERS s: Complete the following stem details, then add far its and do not need to be  CU-1 Econom  02  Fan Function	Table for fars s within that included in 1  zer:1 N  O3  Qty	A: ≤ 54 kBtu/h c  O4  Maximum E  Supply Air (CFM)	cooling Econo Contro  05  Design flow HP Unit <sup>2</sup> Nameplate	mizer Is: 06 Design HP 0.08	07 Fan Pow Devic	System Fan Type:  er Pressure Drop Are	Variable Air 08 djustment - Table 1	Volume

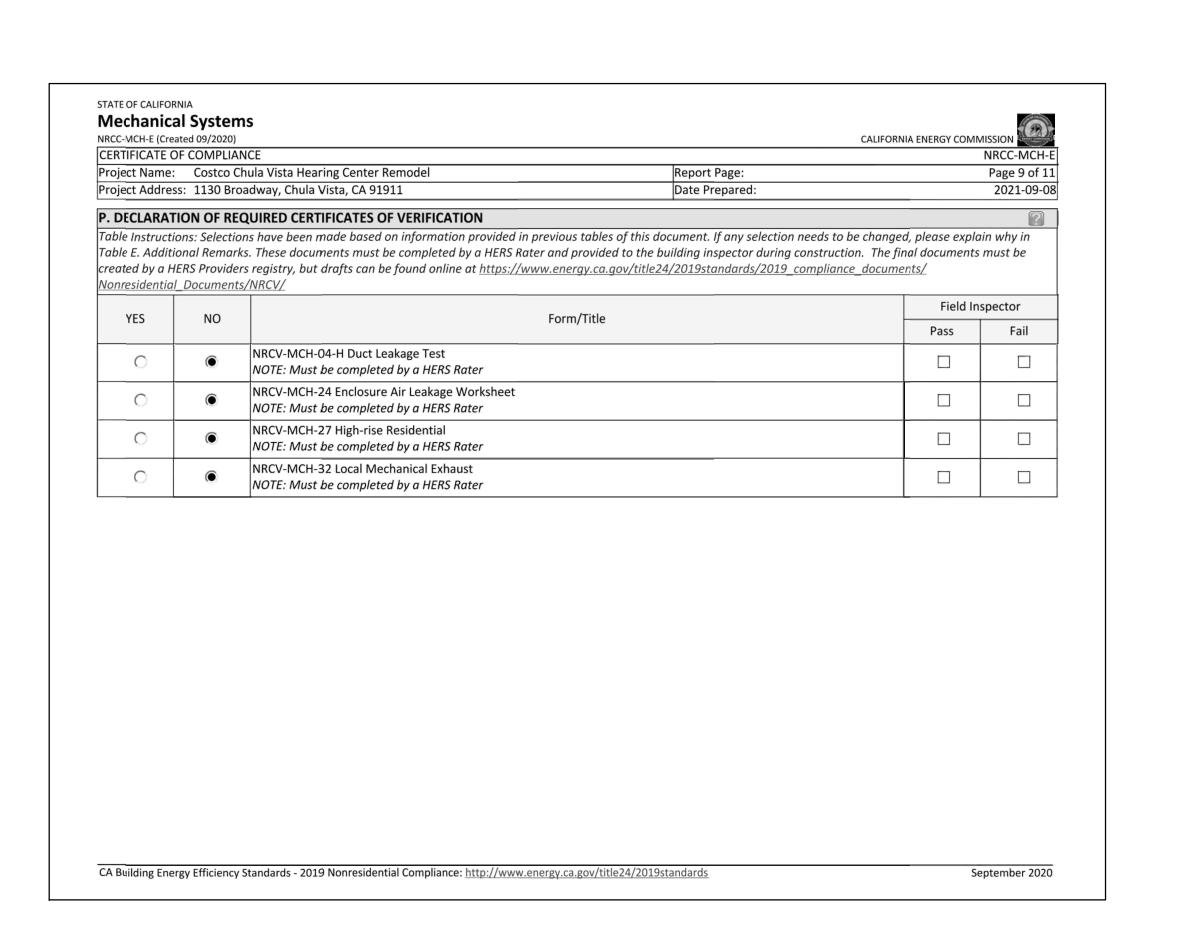
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <a href="http://www.energy.ca.gov/title24/2019standards">http://www.energy.ca.gov/title24/2019standards</a>

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

NRCC-MCH-E (	ical Syste Created 09/202	0)		CALIFORNIA ENERGY COM	
	E OF COMPL		Devent Dogo:		NRCC-MCH-E
Project Nan		Chula Vista Hearing Center Remodel Broadway, Chula Vista, CA 91911	Report Page: Date Prepared:		Page 6 of 11 2021-09-08
				· · · · · · · · · · · · · · · · · · ·	
		REQUIRED CERTIFICATES OF INSTALLATION tions have been made based on information provided in pre	vious tables of this document. If any selection needs to be	changed nlease exp	lain why in
Table E. Ad	ditional Remo	arks. These documents must be provided to the building insp 2019 compliance documents/Nonresidential Documents/N	pector during construction and can be found online at http:		
VEC	No	Faces (Tital)	Containe To Be Field Veri	Field I	nspector
YES	NO	Form/Title	Systems To Be Field Veri	Pass	Fail
•		NRCI-MCH-01-E - Must be submitted for all buildings.			

September 2020

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STATE OF CALIFORNIA

YES

Mechanical Systems

CERTIFICATE OF COMPLIANCE

Project Name: Costco Chula Vista Hearing Center Remodel

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

title24/2019standards/2019\_compliance\_documents/Nonresidential\_Documents/NRCA/

NRCA-MCH-04-A Air Distribution Duct Leakage

NRCA-MCH-05-A Air Economizer Controls

(CO2) concentration setpoints.

NRCA-MCH-08-A Valve Leakage Test

NRCA-MCH-07-A Supply Fan Variable Flow Controls

NRCA-MCH-09-A Supply Water Temperature Reset Controls

• NRCA-MCH-10-A Hydronic System Variable Flow Controls

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <a href="http://www.energy.ca.gov/title24/2019standards">http://www.energy.ca.gov/title24/2019standards</a>

NRCA-MCH-11-A Automatic Demand Shed Controls

Acceptance (if applicable) since testing activities overlap.

NRCA-MCH-03-A Constant Volume Single Zone HVAC

Project Address: 1130 Broadway, Chula Vista, CA 91911

NRCC-MCH-E (Created 09/2020)

RCC-MCH-E (Created 09/2020)			CALIF	ORNIA ENERGY COMMISSION		
CERTIFICATE OF COMPLIANCE				NRCC-MCF		
Project Name: Costco Chula Vista Hearing Center Remodel			Report Page:	Page 10 of		
roject Address: 1130 Broadway, Chula Vista, CA 91911			Date Prepared:	2021-09-		
Q. MANDATORY MEASURES DOCUMENTATION LOCATION						
Table Instructions: Indicate where mandatory measures are documented in				ires that do not apply, mark		
he plan sheet or construction document location as "N/A", any active cells	s tnat are lejt blan					
01			02			
			Plan sheet or construction docum	ent location		
Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Block:	No					
03						
Mandatory Measure			Plan sheet or construction docum	ent location		
Heating Equipment Efficiency per §110.1		MP-1				
Cooling Equipment Efficiency per §110.1		MP-1				
Furnace Standby Loss Control per §110.2(d)		NA				
Ouct Insulation per §120.4		NA				
Heating Hot Water Equipment Efficiency per §110.1		NA				
Cooling Chilled and Condenser Water Equipment Efficiency per §110.1		NA				
Open and Closed Circuit Cooling Towers conductivity of flow-based contro	ols per §110.2(e)1	NA				
Open and Closed Circuit Cooling Towers Flow Meter with analog output pe	er §110.2(e)3	NA				
Open and Closed Circuit Cooling Towers Overflow Alarm per §110.2(e)4		NA				
Open and Closed Circuit Cooling Towers Efficient Drift Eliminators per §110	0.2(e)5	NA				
Pipe Insulation per §120.3(b)		NA				
Combustion air shutoff, combustion air fan controls and stack design and coollers per §120.9	controls for	NA				
Heat Pump with Supplementary Electric Resistance Heater Controls per §1	110.2(b)	NA				
he air duct and plenum system is designed per §120.4(a)-(f)		NA				
Kitchen range hoods shall be rated for sound in accordance with Section 7 52.2	.2 of ASHRAE	NA NA				

IRCC-MCH-E (Created 09/2020)			CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE	eta Haarina Cautan Dawa dal	Dan art Dana	NRCC-MCH-E
Project Name: Costco Chula Vi Project Address: 1130 Broadway	sta Hearing Center Remodel	Report Page: Date Prepared:	Page 11 of 11 2021-09-08
		Date Trepared.	2021 03 00
DOCUMENTATION AUTHOR'S			?
L. I certify that this Certificate of	Compliance documentation is accurate and	complete.	600
Documentation Author Name:	Paal K. Ryan	Documentation Author Signature:	(Cadata)
Company:	T.E., Inc.	Signature Date:	1/18/23
Address:	830 North Riverside Dr. Ste 200	CEA/ HERS Certification Identification	n (if applicable):
City/State/Zip:	Renton, WA 98057	Phone:	425-970-3753
	this Certificate of Compliance is true and co	rract	
Compliance (responsible designs). The energy features and performance compliance compliance compliance documents, works. I will ensure that a completed to the enforcement agency for documentation the builder processors. Responsible Designer Name:	of the Business and Professions Code to acc gner) ormance specifications, materials, compone form to the requirements of Title 24, Part 1 or system design features identified on this sheets, calculations, plans and specification signed copy of this Certificate of Compliand r all applicable inspections. I understand the ovides to the building owner at occupancy.  Paal K. Ryan  T.E., Inc.	nts, and manufactured devices for the building and Part 6 of the California Code of Regulations Certificate of Compliance are consistent with the submitted to the enforcement agency for appose shall be made available with the building per at a completed signed copy of this Certificate of Responsible Designer Signature:  Date Signed:	design or system design identified on this s. ne information provided on other applicable
Compliance (responsible designs). The energy features and performance compliance compliance compliance documents, works. I will ensure that a completed to the enforcement agency for documentation the builder process. Responsible Designer Name:	of the Business and Professions Code to acc gner) ormance specifications, materials, compone form to the requirements of Title 24, Part 1 or system design features identified on this sheets, calculations, plans and specification signed copy of this Certificate of Compliand or all applicable inspections. I understand the ovides to the building owner at occupancy.  Paal K. Ryan	ept responsibility for the building design or systems, and manufactured devices for the building and Part 6 of the California Code of Regulations Certificate of Compliance are consistent with the submitted to the enforcement agency for appice shall be made available with the building per at a completed signed copy of this Certificate of Responsible Designer Signature:	design or system design identified on this s. ne information provided on other applicable proval with this building permit application. rmit(s) issued for the building, and made available f Compliance is required to be included with the

T.E., Inc.
830 n. riverside drive suite #200 renton, wa 98057 phone: 425-970-3753 fax: 425-970-3756 ART WITHOUT THE PRIOR WRITTEN CONSENT OF T.E.INC.

HEARING CENTER

REMODEL

WAREHOUSE #781

1130 BROADWAY

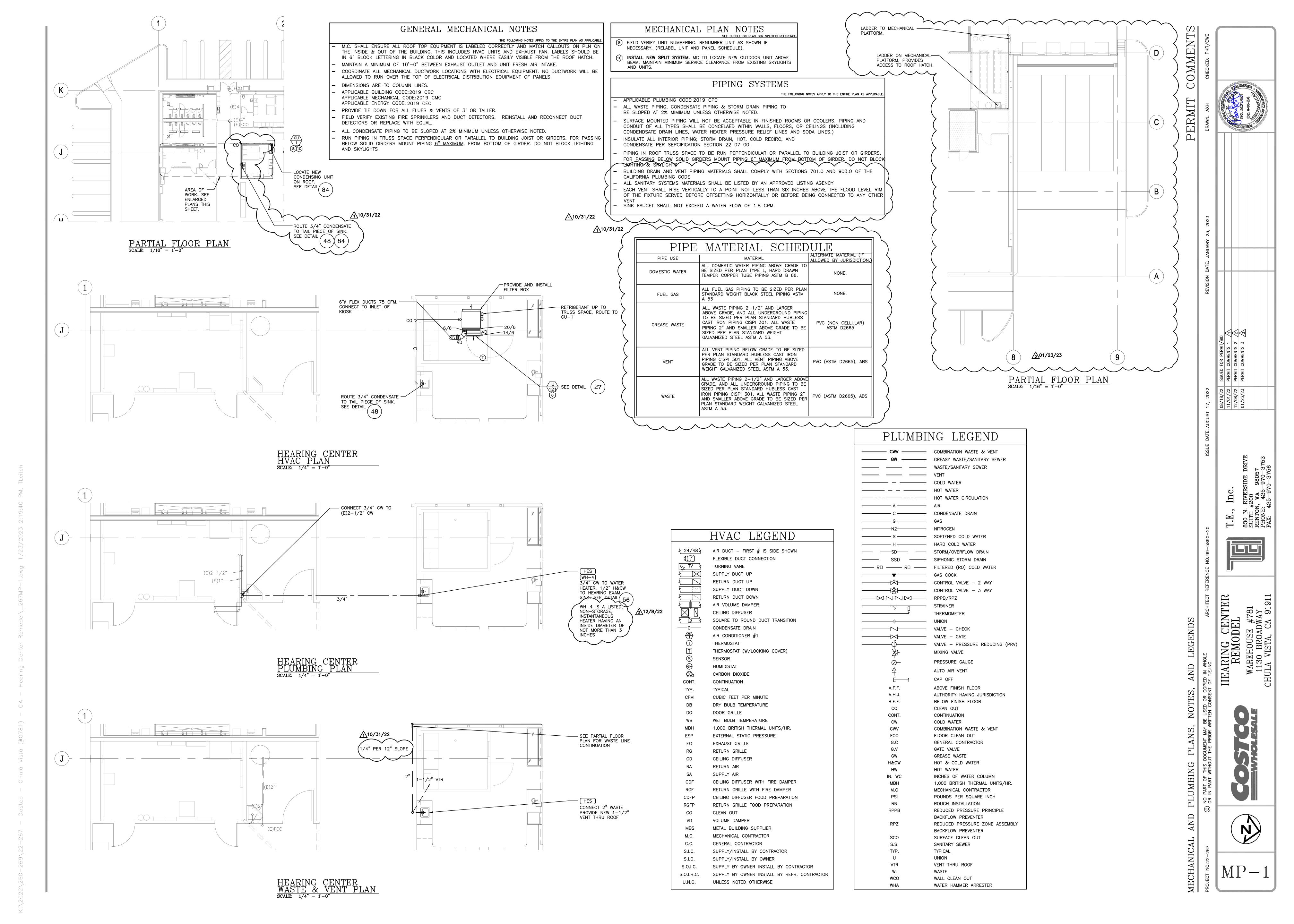
CHULA VISTA, CA 91911

ITLE 24

PROJECT NO:22-267

MP-0

301/23/23



	PLUMBII	NG FIXTUF	RE SO	CHED	ULE	-S	UPPLIED BY OWNER INSTALLED BY CONTRACTOR (SOIC)				
SYMBOL	DESCRIPTION	MFR./MODEL	WASTE	VENT	COLD W.	HOT W.	SPECIFICATIONS	DETAIL	SERVES	NOTES BACKFLO PREVENTI	NOI
HES	HEARING EXAM SINK		2"	1-1/2"	1/2"		22 GAUGE TYPE 302 SELF RIMMING STAINLESS STEEL, LEDGE TYPE, SINGLE COMPARTMENT SINK, 12"X10"X6" DEEP WITH FAUCET LEDGE. INCLUDES CHROME FAUCET, STRAINER AND INSTALLATION HARDWARE.		HEARING EXAM	LH-BS AG	
WH-4	WATER HEATER 120°F	EE MAX EMT 2.5			1/2"	1/2"	2.5 GAL., ELECTRIC WATER HEATER, 1.2KW, 120V/1ø, 10 AMPS. 6.0 GPH @ 100° RISE.	56/P	HEARING CENTER	(3) N/A	
(3) W	ATER HEATERS TO	HAVE RIGID CONNE	CTIONS &	CONSTR	AINTS TO	RESIST	SEISMIC MOTION.	H/	AZARD TYPE	BACKFLOW POTENTIA	۱ <u>L</u>
									OW HAZARD IGH HAZARD	BS – BACK SIPHONAG BP – BACK PRESSUR	
									DACKELOW D	DEVENTION.	

— TOP OF HEARING CENTER SIGNAGE.

— TOP OF HEARING CENTER.

FLOOR

<u>HEARING</u>

SIDE VIEW

HEARING CENTER DUCT SECTION

DUCTED INDOOR UNIT.
RETURN TO REMAIN
OPEN TO WAREHOUSE.

DUCT AND IU-# TO BE OBSCURED FROM VIEW OF

MAIN SALES. (TYP.)

EXT. WALL —

HEARING BOOTH --

INT. WALL -

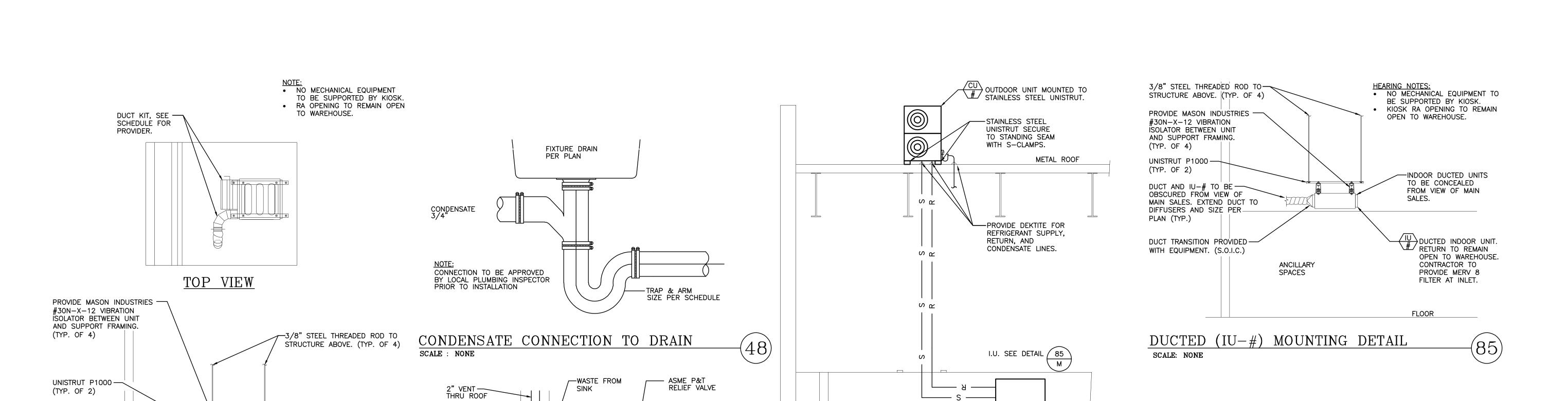
SCALE: NONE

BACKFLOW PREVENTION RPZ — REDUCED PRESSURE PRINCIPLE BACK FLOW PVB — PRESSURE VACUUM BREAKER AG - AIR GAP AVB - ATMOSPHERIC VACUUM BREAKER

				HVAC EQUIPME	NT SCHEI	OULE—	S.O.I.C.			
COOLING	DESIGN TEMPER	ATURES: 93	3.3°F DB, 76	.9°F MCWB, 18.2°F DAILY RANGE	HEATING DESIGN	TEMPERATURE	ES: 30.4°F D	B 99%, 27.4	F DB 99.6% ELEVATION: 5	2 FT
SYMBOL	ITEM	SERVES	MFR/#	DESCRIPTION		ELECT.	WEIGHT	REFERENCE	REMARKS	NOTES
CU-1	AIR CONDITIONER	HEARING	LG LUU097HV	HEAT PUMP OUTDOOR UNIT, 1/4" LIQ, 3/8" GAS 9.00 MBH COOLING, 14.00 MBH HEAT @ 47°F,	3/4 NOM. TONS, EER = 12.7 SEER = 18.5 988 CFM	208V/1ø 15A MOP 11.9 MCA	UNIT: 82#	84/M	PROVIDE Y-BRANCH KIT P/N: PMBL5620	
IU-121	AIR CONDITIONER	HEARING	LG LDN097HV4	9.0 MBH COOLING,	FM 0.2" S.P. MAX.	POWERED BY CU-1	UNIT: 39#	85/M	O/A FROM WAREHOUSE	

### GENERAL NOTES

- All equipment furnished by owner. Refer to HVAC Equipment Responsibilities on sheet M-0.2 for installation.
- AC units provided with D.D.C. communications interface controlled by building management system by controls installer. sensor/t'stat S.I.O. sensors @ +72", t'stats at 48" A.F.F.
- Refrigeration contractor to install all items listed in equipment submittal per manufacturers installation and operation manual - For LG multi-split layout, piping information and equipment submittals, contact Alex Noble at Johnson Barrow: 425.445.4935 or ALEXN@JBARROW.COM



UNDER SINK WATER HEATER (WH-10,11)
SCALE: NONE

P-TRAP

DAYLIGHT CATCH PAN DRAIN TO CONCRETE

TRAP PRIMER -

2" WASTE IN WALL-

HOT WATER

+2"/3" ADAPTER HUB DRAIN

COLD WATER

WATER HEATER TO BE INSTALLED TIGHT AGAINST SIDE WALL.

—DISCHARGE PIPE TO 3" DIA. HUB DRAIN

—CATCH PAN

FINISHED FLOOR

MULTI-SPLIT ELEVATION DIAGRAM SCALE: NONE

TYPICAL ANCILLARY STRUCTURE

(PHARMACY, OPTICAL, QUIET RM.)

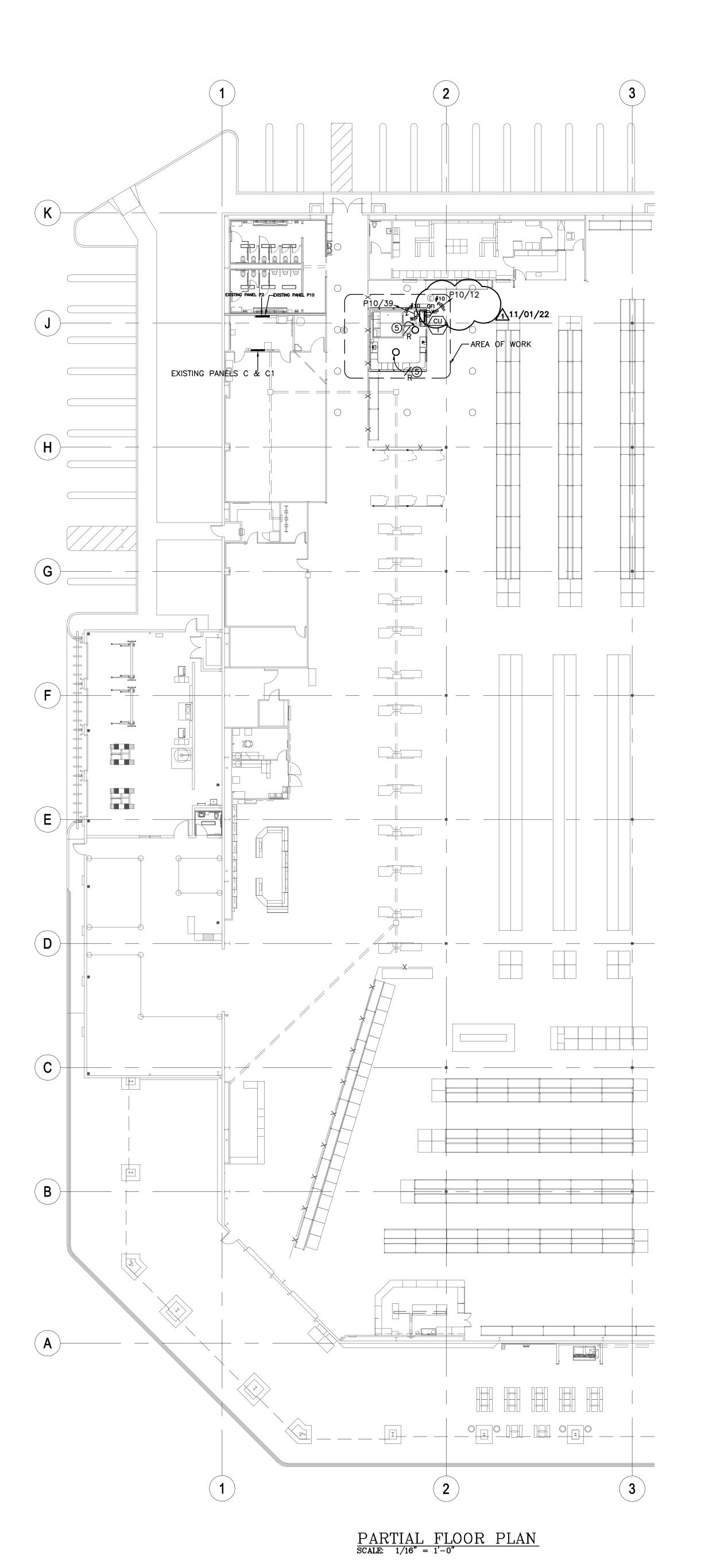
LIGHTS-

7 2 2

OMME

Inc.





## LEGEND

D	DUPLEX RECEPTACLE, +18" MIN. OR AS NOTED	
D	ISOLATED GROUND DUPLEX RECEPTACLE, +18" MIN. OR AS NOTED	

ISOLATED GROUND FOUR-FLEX RECEPTACLE, +18" MIN. OR AS NOTED

FOUR-PLEX RECEPTACLE, +18" MIN. OR AS NOTED

PLUGMOLD WITH RECEPTACLES, SEE SPECS JUNCTION BOX, SIZE AND TYPE PER CODE FUSED DISCONNECT, COORDINATE W/EQUIPMENT SUPPLIER COMBINATION STARTER/DISCONNECT SWITCH NON-FUSED DISCONNECT, COORDINATE W/EQUIPMENT SUPPLIER HACR BREAKER IN NEMA ENCLOSURE, COORDINATE W/EQUIPMENT SUPPLIER

M.S.B. MAIN SWITCHBOARD MAIN LUGS ONLY CU COPPER ABOVE FINISH FLOOR

GROUND FAULT CIRCUIT INTERRUPTER + WR (WEATHER RESISTANT) OUTDOOR GENERAL CONTRACTOR E.C. ELECTRICAL CONTRACTOR MECHANICAL CONTRACTOR TYP.

TYPICAL HACR BREAKER IN NEMA ENCLOSURE. COORDINATE WITH EQUIPMENT SUPPLIER.

MOTOR CONNECTION AS REQUIRED TELEPHONE / DATA OUTLET WITH 3/4" CONCEALED-IN-WALL CONDUIT UP TO CEILING SPACE OR AS SHOWN. DO NOT DAISY CHAIN. 2-COMPARTMENT POWER POLE, WIREMOLD 25DTP SERIES CONDUIT IN CEILING OR WALL, 1/2" MIN. CONDUIT UNDERGROUND OR FLOOR, 3/4" MIN. HOME RUN TO PANEL WITH CIRCUIT NUMBER, SLASHES INDICATE NUMBER OF CONDUCTORS INDICATES WIRES AND CONDUIT OTHER THAN #12,1/2"C C - METALLIC CONDUIT, PVC - PLASTIC CONDUIT

ISOLATED GROUND OR GROUND CONDUCTOR FLEXIBLE CONDUIT CONNECTION AS REQUIRED TRANSFORMER

3/4"x4'x8' PAINTED TELEPHONE BOARD BRANCH PANEL GROUNDING PER CODE OR 3/4" DIAMETER 10' LONG STAINLESS STEEL GROUND ROD WEATHER PROOF

CONDUIT ONLY WITH PULL WIRES INDICATES MOUNTING HEIGHT OF EQUIPMENT/OUTLET CENTER LINE ABOVE FINISH FLOOR

### PLAN NOTES:

1 E.C. TO REMOVE EXISTING ELECTRICAL DEVICES AND ASSOCIATED CONDUITS & WIRES TO SOURCE. REFER TO DEMO AREA, SEE ARCHITECTURAL PLAN FOR EXACT LOCATION. TURN OFF BREAKER(S) AND LABEL AS 'SPARE' OR REUSE EXISTING CIRCUITS, IF APPLICABLE.

2 MOUNT RECEPTACLE INSIDE CABINET FOR CASH REGISTER, PROVIDE GROUND WIRES.

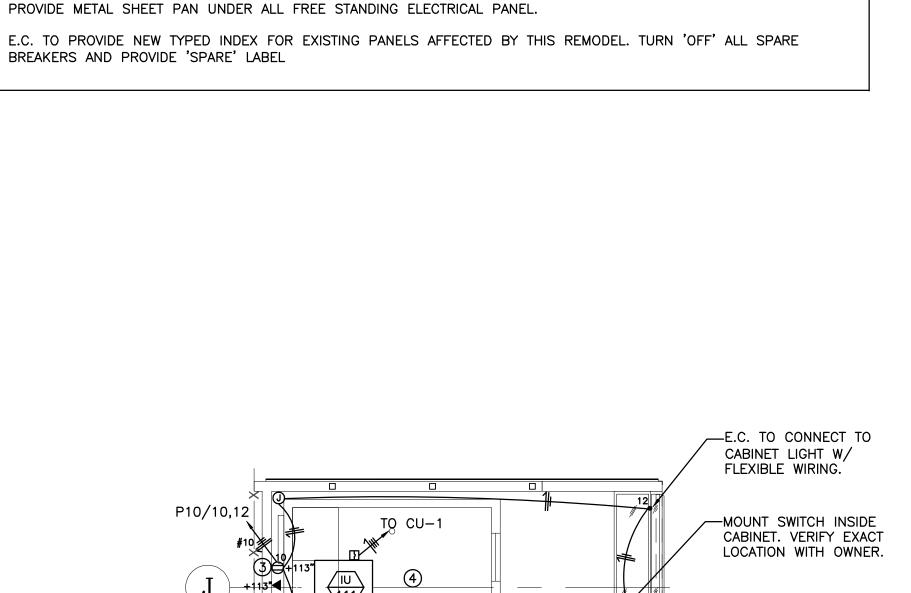
(3) RECEPTACLE FOR BOOTH AND LIGHTING & OUTLETS. E.C. TO MAKE ALL FINAL CONNECTIONS.

(4) NO CONDUIT ATTACHED TO BOOTH.

(5) E.C. TO REMOVE AND RELOCATE EXISTING HIGHBAY LIGHT FIXTURE AS SHOWN. EXTEND FEEDER TO NEW LOCATION. DO NOT CUT FLEXIBLE WIRING SYSTEM. PROVIDE NEW FLEXIBLE WIRING AS REQUIRED. FIELD VERIFY.

PANEL: P10	208 /	120 VOLTS	3		3 PHA	SE		4 WIRE		
		CU BUS M	I.L.O.						A.I.C. MIN.	
EXISTING	TOP FEE	.D			SURFA	CE MOUN		SQ-D		
	F	PHASE (KV	/A)		CKT.CK	T.		PHASE (K	VA)	
CIRCUIT USE	Α	В	C	BKR.		D. BKR.	Α	В	С	CIRCUIT USE
SITE PARK LIGHTING	1.48			20/1		2 20/1				SPARE
SITE PARK LIGHTING		1.18		20/1	-	20/1				SPARE
SPARE				20/1	5 6	20/1				SPARE
SPARE				20/1		3 20/1	1.20			HEARING AID WH-4*
SPARE				20/1		0 20/1		0.50		HEARING AID BOOTH*
SPARE				20/1		2 20/1			0.90	HEARING AID RECEPT*
SPARE				20/1		4 20/1	0.80			RECEPTACLE
SPARE				20/1	15 1	6 20/1		0.80		RECEPTACLE
SPARE				20/1		8 20/1			0.80	RECEPTACLE
RECEPTACLE	0.80			20/1		0 20/1	0.18			RECEPTACLE
RECEPTACLE		0.80		20/1	21 2			0.80		RECEPTACLE
RECEPTACLE			0.80	20/1	23 2				0.80	RECEPTACLE
RECEPTACLE	0.80			20/1	25 2		0.80			RECEPTACLE
RECEPTACLE		0.80		20/1	27 2	8 20/1		0.80		RECEPTACLE
RECEPTACLE			0.80	20/1		0 20/1			0.80	RECEPTACLE
SPARE				20/1	31 3	2 20/1	0.80			RECEPTACLE
SPARE				20/1	33 3					SPARE
SPARE				20/1		6 30/1			1.18	AD-1
SPARE				20/1	37 3	8 30/1	1.18			AD-2
CU-1*				15/2	39 4	0 20/1		0.50		CATV AMPLIFIER
						2 20/1				SPARE
TOTAL PHASE A (KVA)	3.08				8.04		4.96			
TOTAL PHASE B (KVA)		2.78			6.18	<b>KVA</b>		3.40		
TOTAL PHASE C (KVA)			1.60		6.08	<b>KVA</b>			4.48	
TOTAL CONNECTED LOAD					20.3	<va< td=""><td></td><td></td><td>56 A</td><td></td></va<>			56 A	

*NEW LOAD. PROVIDE BREAKER AS	5 SHOWN.									
PANEL: C	208 / 1	20 VOLTS	<u> </u>		3 PHAS	Ε		5 WIRE		
			//100/3P	MCB		_			A.I.C. MIN	
EXISTING	TOP FEE		, ,		SURFAC	E MOUN	IT	SQ-D I		
		HASE (KV	/A)		CKT.CKT			PHASE (K		
CIRCUIT USE	Α	В	C		NO. NO.	1	A	В	C	CIRCUIT USE
MEMBERSHIP COUNTER	0.36		_	20/1	1 2		0.36			MEMBERSHIP COUNTER
MEMBERSHIP COUNTER		0.36		20/1	3 4	20/1		0.36		MEMBERSHIP COUNTER
MEMBERSHIP COUNTER			0.36	20/1	5 6	<del></del>			0.18	OPTICAL RECEPTACLE
SPARE				20/1	7 8		0.72			HEARING AID RECEPT*
RECEIVING COUNTER		1.08		15/1	9 10					SPARE
RTV RECEPTACLE			0.72	15/1	11 12	20/1				SPARE
FOOD SERVICE CASH REG	0.50			15/1	13 14		0.50			LABEL SYSTEM #61
FOOD SERVICE CASH REG		0.50		15/1	15 16	15/1		0.20		MEAT SCALE #50
FOOD SERVICE CASH REG			0.50	15/1	17 18				0.20	DELI PRINTER #69
FOOD SERVICE CASH REG	0.50			15/1	19 20		0.36			RECEPT - OFFICE
SPARE				20/1	21 22			0.36		RECEPT - OFFICE
RECEPT. TIRE CENTER			0.36	15/1		15/1				SPARE
RECEPT PHARMACY				15/1	25 26	15/1				SPARE
ATM MACHINE		0.50		20/1	27 28	20/1		0.50		RECEPT. TIRE CENTER
RECEPT PHARMACY			0.36	20/1		20/1			0.50	RECEPT. TIRE CENTER
RECEPT PHARMACY	0.72			20/1		100/2	5.00			UPS
SPARE				15/1	33 34			5.00		
SPARE				15/1	35 36	20/1			0.54	MANAGER'S OFFICE REC.
	0.10				37 38	20/1				SPARE
SURGE PROTECTOR		0.10		20/3		15/1		0.50		OPTICAL KIOSK RECEPTACLE
			0.10		41 42	15/1			0.50	PHOTO RECEPTACLE
TOTAL PHASE A (KVA)	2.18				9.12 K	VA	6.94			
TOTAL PHASE B (KVA)		2.54			9.46 K	<b>√</b> A		6.92		
TOTAL PHASE C (KVA)			2.40		4.32 K				1.92	
TOTAL CONNECTED LOAD					22.9 K	√A			63 A	
*NEW LOAD. PROVIDE BREAKER AS	S SHOWN.									



ELECTRICAL DEMOLITION & REMODEL GENERAL NOTES

ELECTRICAL CONTRACTOR SHALL REFER TO THE ARCHITECTURAL DEMOLITION AND PHASING PLANS FOR THE SCOPE OF

REMOVAL OF EXISTING ITEMS SHALL INCLUDE DISCONNECTING AND REMOVING OF THE EXISTING CONDUITS AND WIRING

RELOCATE EXISTING ITEMS SHALL INCLUDE DISCONNECTING AND EXTENDING EXISTING CONDUITS AND WIRING TO NEW

INFORMATION ON THE EXISTING INSTALLATION HAS BEEN OBTAINED FROM THE BEST SOURCE AVAILABLE BUT CANNOT

THE SITE. VERIFY ALL SUCH INFORMATION AND THOROUGHLY FAMILIARIZE THEMSELVES WITH THE EXISTING CONDITIONS.

ALL WORKS SHALL BE PERFORMED TO CHANGE THE EXISTING ELECTRICAL INSTALLATION AS SHOWN. INCLUDE AS PART

BE GUARANTEED ACCURATE IN ALL RESPECTS. PRIOR TO BID, IT IS THE CONTRACTORS'S RESPONSIBILITY TO VISIT

ALL EXISTING WIRING, CONDUITS, JUNCTION BOXES AND ALL OTHER ELECTRICAL EQUIPMENT AND DEVICES IN THE

AREAS AFFECTED BY THE REMODEL SHALL BE REMOVED AND RELOCATED AS REQUIRED. EXTEND ALL CONDUITS AND

ALL WORKS ARE TO BE DONE SO AS NOT TO INTERFERE WITH THE WAREHOUSE'S NORMAL OPERATION. ALL WORKS

COORDINATE AND SCHEDULE WITH OWNER FOR ANY EXISTING ELECTRICAL SERVICE SHUTDOWN, PROVIDE TEMPORARY POWER TO MAINTAIN EXISTING ELECTRICAL SYSTEM FOR WAREHOUSE'S NORMAL OPERATION AS REQUIRED. TEMPORARY

E.C. TO CONNECT TO CABINET PLUGMOLD.

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

<u>HEARING CENTER - POWER PLAN</u>

POWER SOURCES INCLUDE GENERATOR SET, POWER COMPANY'S TEMPORARY SERVICE HOOKUP, ETC.

ARE TO BE COORDINATED AND SCHEDULED AS APPROVED BY THE WAREHOUSE MANAGER FOR ELECTRICAL SHUTDOWN,

BACK TO THE NEXT ACTIVE OUTLET OR SOURCE. PROVIDE MATCHING BLANK COVER PLATE AS REQUIRED.

REMOVE OR ABANDON ALL UNUSED UNDERGROUND, UNDER FLOOR RACEWAYS. REMOVE WIRES.

PROVIDE CUTTING, PATCHING FOR ALL RELATED ELECTRICAL WORK AS REQUIRED.

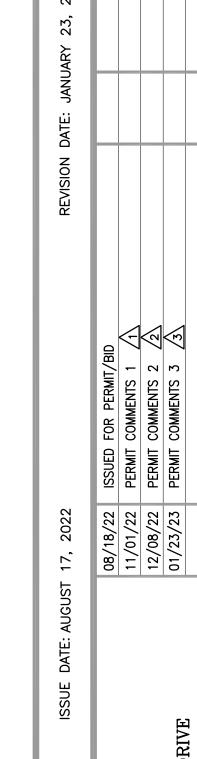
OF THE CONTRACT ALL RELATED WORKS REQUIRED TO OBTAIN THE INDICATED RESULTS.

CORRESPONDING ELECTRICAL DEMOLITION WORK.

REMOVE ALL UNUSED SURFACE RACEWAYS.

FIELD VERIFY EXISTING CONDITIONS PRIOR TO BID.

LOCATION, PROVIDE NEW CONNECTION AS REQUIRED.



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AND LEGEND