EXHIBIT F

CONSTRUCTION DRAWINGS

I.C. DEPARTMENT OF SOCIAL SERVICES – NEW INTERVIEW ROOMS PROJECT LOCATED AT 2995 S. 4TH STREET, SUITE 105, EL CENTRO, CA 92243

COUNTY PROJECT NO. SR7117S

NEW INTERVIEW ROOMS FOR:

IMPERIAL COUNTY DEPARTMENT OF SOCIAL SERVICES

2995 S. 4th Street- Suite 105
El Centro, CA 92243

COUNTY PROJECT: SR7117SS

DESIGN CRITERIA / PROJECT INFORMATION

EXISTING BUILDING AREA	± 40,967 S.F.
EXISTING CONSTRUCTION TYPE	V-B
EXISTING OCCUPANCY GROUP	B
EXISTING TENANT USE	OFFICE
EXISTING FIRE SPRINKLERS	YES
AREA OF INTERIOR WORK	1,155 S.F. (revision 2)

OWNER: RJ DEVELOPMENT CO.LLC

APN NUMBER: 054-050-052

LEGAL DESCRIPTION:
TR#:104 PAR 4 PM 54-050-35 OF TR 104 16-14 CITY OF EL CENTRO 6.53AC
CITY/MUNI/TWP: EL CENTRO

ACCESSIBILITY NOTES

1. PAD ACCESSIBILITY REQUIREMENTS WERE UPGRADED PER **ACCESSIBILITY COMPLIANCE REPORT DONE BY "PARTNER" - DATED: AUGUST 19,2025.**
2. IF THERE IS ANY NON-COMPLIANCE WITH ADA REQUIREMENTS, ALL NECESSARY CHANGES OR UPGRADES TO COMPLY WITH ADA WILL BE IN A SUBSEQUENT PROJECT.
3. IF THE CITY BUILDING INSPECTOR DETERMINES NON-COMPLIANCE WITH ANY ACCESSIBILITY PROVISIONS, A COMPLETE AND DETAILED REVISED PLANS CLEARLY SHOWING ALL EXISTING NON-COMPLYING CONDITIONS AND THE PROPOSED MODIFICATIONS TO MEET CURRENT ACCESSIBILITY REQUIREMENTS (INCLUDING SITE PLAN, FLOOR PLANS, DETAILS, ETC.) WILL BE SUBMITTED TO THE DEPARTMENT FOR REVIEW AND APPROVAL.

DEFERRED SUBMITTALS

1. EXISTING FIRE SPRINKLER SYSTEM:
   ANY REQUIRED MODIFICATIONS TO FIRE SPRINKLER SYSTEM.

ABBREVIATIONS

ABV	ABOVE	MFG	MANUFACTURE (R)
AFF	ABOVE FINISH FLOOR	MAX	MAXIMUM
A/C	AIR CONDITIONING	MECH	MECHANICAL
ALUM	ALUMINUM	MIN	MINIMUM
ARCH	ARCHITECT (URAL)	MISC	MISCELLANEOUS
@	AT	MULL	MULLION
BM	BEAM	NIC	NOT IN CONTRACT
BLK	BLOCK (ING)	NTS	NOT TO SCALE
BOT	BOTTOM	NG	NATURAL GRADE
BLDG	BUILDING	OFF	OFFICE
CLG	CEILING	O/C	ON CENTER
CIR	CIRCUIT	OPN'G	OPENING
CL	CLEAR	OPH	OPPOSITE HAND
COL	COLUMN	OD	OUTSIDE DIAMETER
CONC	CONCRETE	PNT	PAINT (ED)
CONST	CONSTRUCTION	PLAM	PLASTIC LAMINATE
CONT	CONTINUOUS	PWD	PLYWOOD
CTR	COUNTER	POL	POLISHED
DTL	DETAIL	PROJ	PROJECT
DIA	DIAMETER	RE	REFERENCE
DIM	DIMENSION	REFR	REFRIGERATOR
DBL	DOUBLE	REM	REMOVE (D) (ABLE)
DF	DOUGLAS FIR	REQD	REQUIRED
DN	DOWN	RELS	RESILIENT
DR	DOOR	REV	REVISION (S) REVISED
DWR	DRAWER	RM	ROOM
DWG	DRAWING	RO	ROUGH OPENING
EA	EACH	RD	ROUND
EGB	EDGE BAND	SCH	SCHEDULE
ELEV	ELEVATION	SECT	SECTION
EQ	EQUAL	SHT	SHEET
EQPT	EQUIPMENT	SIM	SIMILAR
(E)	EXISTING	SGL	SINGLE
EXP	EXPOSED	SLDG	SLIDING
EXT	EXTERIOR	SC	SOLID CORE
EG	EXTERIOR GRADE	SLD SUR	SOLID SURFACE
FOS	FACE OF STUD	SPEC	SPECIFICATION
FT	FEET, FOOT	SS	STAINLESS STEEL
FIN	FINISH (ED)	STO	STORAGE
FF	FINISH FLOOR	STR	STRUCTURAL
FP	FIREPLACE	SUSP	SUSPENDED
FL	FLOOR (ING)	SWR	SEWER / SEWER LINE
FD	FLOOR DRAIN	TEL	TELEPHONE
FLUR	FLUORESCENT	TYP	TYPICAL
FG	FUEL GAS	THRU	THROUGH
FUR	FURRED (ING)	V/F	VERIFY IN FIELD
GYP BRD	GYPSUM BOARD	VTC	VINYL COMPOSITION TILE
HB	HOSE BIBB	VERT	VERTICAL
HC	HOLLOW CORE	VTR	VENT THRU ROOF
HDW	HARDWARE	VTC	VENT THRU CEILING
HDWD	HARDWOOD	W/	WITH
HORIZ	HORIZONTAL	W/O	WITHOUT
HVAC	HEATING/VENTILATION/ AIR CONDITIONING	WC	WATER CLOSET
IN (")	INCH	WD	WOOD
ID	INSIDE DIAMETER	WDB	WOOD BASE
INT	INTERIOR	WI	WROUGHT IRON
LAV	LAVATORY	WTR	WATER / WATER LINE

EXISTING CONDITIONS

ALL EXISTING CONDITIONS INDICATED ON THESE DRAWINGS, INCLUDING BUT NOT LIMITED TO SIZES AND LOCATIONS OF FOOTINGS, BEAMS, HEADERS, RAFTERS, JOISTS, TRUSSES, ETC, ARE BASED UPON INFORMATION PROVIDED BY THE CONTRACTOR AND/OR PROPERTY OWNER OR NONDESTRUCTIVE FIELD SURVEY. THESE EXISTING CONDITIONS **MUST BE VERIFIED!**

DURING CONSTRUCTION, SHOULD ANY DISCREPANCIES BETWEEN ACTUAL FIELD CONDITIONS AND THESE DRAWINGS BE DISCOVERED, IT IS THE CONTRACTOR'S AND/OR OWNER'S RESPONSIBILITY TO IMMEDIATELY NOTIFY MPA ARCHITECTS, INC. (619.236.0595) AND THE FIELD INSPECTOR.

UNDERGROUND SERVICE ALERT

CALL BEFORE YOU DIG

TWO WORKING DAYS BEFORE YOU DIG

Section 4216/4217 of the Government Code requires a Dig Alert Identification Number be issued before a Permit to Excavate will be valid. For your Dig Alert Identification Number call

call: TOLL FREE
1-800-422-4133
(Southern California)

GOVERNING CODES AND REFERENCE STANDARDS

THIS PROJECT WILL COMPLY WITH THE 2022 EDITION OF FOLLOWING CODES:

2022 CALIFORNIA BUILDING CODE (CBC)
2022 CALIFORNIA ELECTRICAL CODE (CEC)
2022 CALIFORNIA MECHANICAL CODE (CMC)
2022 CALIFORNIA PLUMBING CODE (CPC)
2022 CALIFORNIA ENERGY CODE (CEC).
2022 CALIFORNIA FIRE CODE (CFC)
2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CBSC)

SHEET INDEX

These plans and documents have been reviewed for compliance with the applicable code requirements of the jurisdiction. The stamping of these plans shall not be held to permit or be an approval of any violation of applicable codes and standards nor relieve the owner, design professional of record or contractor of compliance with applicable codes and standards. Plan review documents does not authorize construction to proceed in violation of any federal, state, nor local regulation.

SEP 17 2025

Bureau Veritas North America, Inc.
Moe Heivand, P.E.

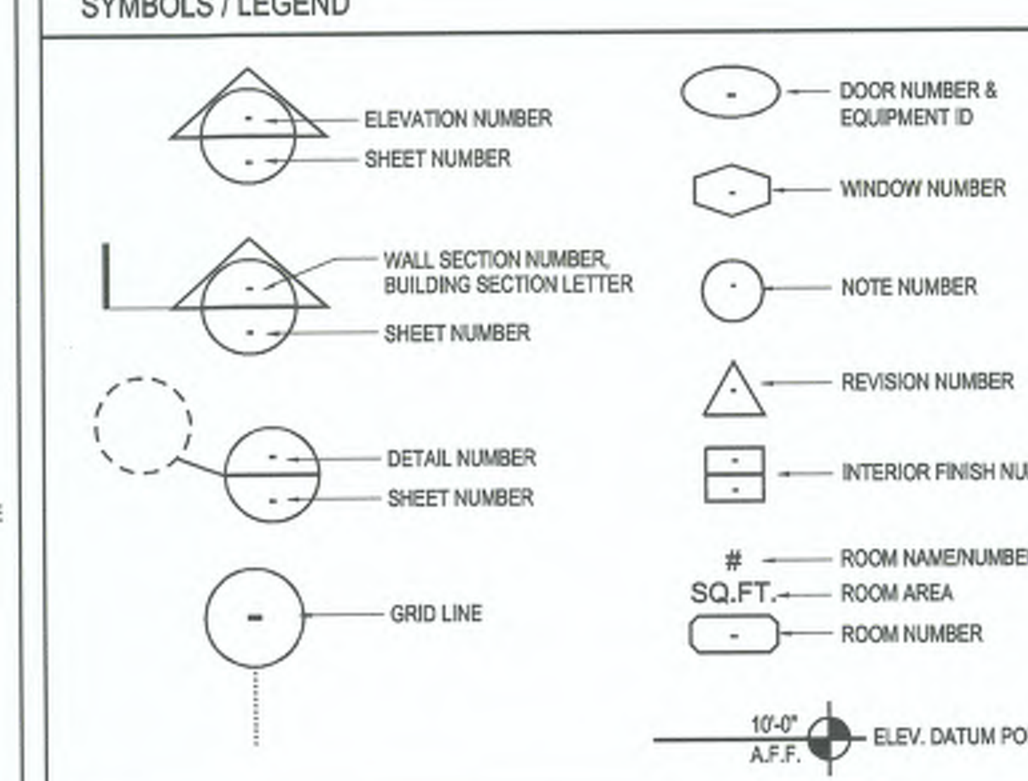
SCOPE OF WORK

PROJECT DESCRIPTION:
PROPOSED INTERIOR WORK IN THESE PLANS SHALL **INCLUDE BUT NOT LIMITED** TO THE FOLLOWING:

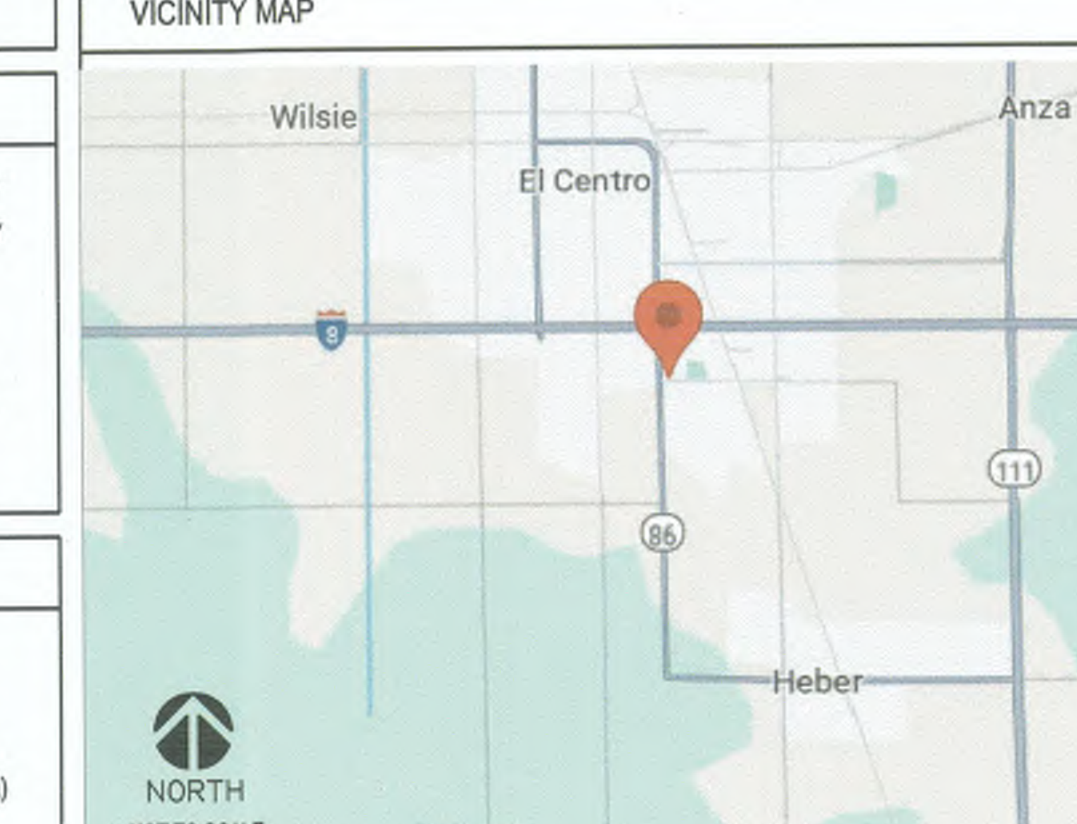
1. SITE WORK:
   a. N/A.
2. DEMOLITION:
   a. INTERIOR NON- BEARING WALLS.
   b. REMOVAL OF INTERIOR MILLWORK.
   c. REMOVAL OF EXISTING FLOORING.
   d. REMOVAL OF EXISTING CEILING AND ASSOCIATED MECHANICAL AND / OR LIGHTING FIXTURES.
3. STRUCTURAL:
   N/A.
4. INTERIOR WALLS, FLOORING, CEILING & FINISHES:
   a. CONSTRUCTION OF NEW INTERIOR NON-BEARING WALLS AND INTERIOR PARTITIONS AS SHOWN ON PLANS.
   b. INTERIOR WALL, FLOOR & CEILING FINISHES PER PLAN.
5. PLUMBING SYSTEM:
   N/A
6. MECHANICAL SYSTEM:
   a. INSTALLATION OF NEW DUCTWORK DISTRIBUTION FROM EXISTING HVAC SYSTEM.
   b. INSTALLATION OF NEW AIR DIFFUSERS ASSOCIATED WITH NEW DUCT WORK.
7. ELECTRICAL SYSTEM:
   a. INSTALLATION OF INTERIOR LIGHTS.
   b. INSTALLATION OF J-BOXES AND RECEPTACLES.

NOTE: REFER TO PLANS FOR ADDITIONAL INFORMATION AND WORK TO BE PERFORMED UNDER THIS PERMIT.

SYMBOLS / LEGEND



VICINITY MAP



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MEMBER AMERICAN INSTITUTE OF ARCHITECTS
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San Diego, CA 92104
V. 619.236.0595
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CLIENT

Imperial County Department Of Public Works
155 S 11TH Street
El Centro, CA 92243
P: (442) 265-1810
E: raulcarrasco@co.imperial.ca.us
Contact: Raul Carrasco

PROJECT

NEW INTERVIEW ROOMS AT
Imperial County Department of Social Services
2995 S. 4th Street- Suite 105
El Centro, CA 92243
County Project: SR7117SS

REVISIONS

NO.	DESCRIPTION	DATE
1	CLIENT'S REVISION	07-21-25
2	PLAN CHECK COMMENT	08-04-25

PLAN SUBMITTAL LOG

PLAN DATE	DESCRIPTION
07-21-25	SUBMITTAL TO BLDG. DEPT. - 1st REVIEW
09-05-25	SUBMITTAL TO BLDG. DEPT. - 2nd REVIEW

LICENSED ARCHITECT
JOHN RUMSEY
C26819
Exp. 3-31-2026
STATE OF CALIFORNIA

SHEET TITLE

COVER SHEET/ VICINITY MAP

DATE: 04-24-25	SCALE: AS NOTED
DRAWN BY: CB	DATABASE: 25115.DWG
CHECKED BY: JR	SHEET NUMBER: T1.0
PROJECT NO: 25115	

AIA California 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE

NONRESIDENTIAL MANDATORY MEASURES, SHEET 1 (July 2024 Supplement)

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

Y | N/A | RESPON. PARTY

CHAPTER 3
GREEN BUILDING
SECTION 301 GENERAL

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

301.3 NONRESIDENTIAL ADDITIONS AND ALTERATIONS. [BSC-CG] The provisions of individual sections of Chapter 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 permitted work.

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

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

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

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

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

SECTION 302 MIXED OCCUPANCY BUILDINGS

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

SECTION 303 PHASED PROJECTS

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

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

ABBREVIATION DEFINITIONS:

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

CHAPTER 5
NONRESIDENTIAL MANDATORY MEASURES

DIVISION 5.1 PLANNING AND DESIGN
SECTION 5.101 GENERAL

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

SECTION 5.102 DEFINITIONS

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

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

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

ELECTRIC VEHICLE (EV) CAPABLE SPACE. [BSC-CG, DSA-SS and HCD] A vehicle space with electrical panel space and load capacity to support a branch circuit and necessary raceways, both underground and/or surface mounted, to support EV charging.

ELECTRIC VEHICLE (EV) CHARGER. [BSC-CG, HCD] Off-board charging equipment used to charge an electric vehicle.

ELECTRIC VEHICLE CHARGING SPACE (EV SPACE). [HCD] A space intended for future installation of EV charging equipment and charging of electric vehicles.

ELECTRIC VEHICLE CHARGING STATION (EVCS). [BSC-CG, DSA-SS, HCD] One or more electric vehicle charging spaces served by EVSE or receptacle(s).

ELECTRIC VEHICLE (EV) READY SPACE. [HCD] A vehicle space which is provided with a branch circuit; any necessary raceways, both underground and/or surface mounted; to accommodate EV charging, terminating in a receptacle or a charger.

ELECTRIC VEHICLE SUPPLY EQUIPMENT (EVSE).[BSC-CG, DSA-SS and HCD] The conductors, including the ungrounded, grounded and equipment grounding conductors and the electric vehicle connectors, attachment plugs, personnel protection system, and all other fittings, devices, power outlets or apparatus installed specifically for the purpose of transferring energy between the premises wiring and the electric vehicle.

SECTION 5.105 DECONSTRUCTION AND REUSE OF EXISTING STRUCTURES

5.105.1 Scope. [BSC-CG] Effective July 1, 2024, alteration(s) to existing building(s) where the combined altered floor area is 100,000 square feet or greater shall comply with either Section 5.105.2, 5.409.2, or 5.409.3. Addition(s) to existing building(s) where the total floor area combined with the existing building(s) is 100,000 square feet or greater shall comply with either Section 5.105.2, Section 5.409.2, or Section 5.409.3. Effective January 1, 2026, the combined floor area shall be 50,000 square feet or greater.

[DSA-SS] Alteration(s) to existing building(s) where the combined altered floor area is 50,000 square feet or greater shall comply with either Section 5.105.2, 5.409.2, or 5.409.3. Addition(s) to existing building(s) where the total floor area combined with the existing building(s) is 50,000 square feet or greater shall comply with either Section 5.105.2, Section 5.409.2, or Section 5.409.3.

Exception [BSC-CG, DSA-SS]: Combined addition(s) to existing building(s) of two times the area or more of the existing building(s) is not eligible to meet compliance with Section 5.105.2.

5.105.2 Reuse of existing building. An alteration or addition to an existing building shall maintain at a minimum 45 percent combined of the existing building's primary structural elements (foundations; columns, beams, walls, and floors; and lateral elements) and existing building enclosure (roof framing, wall framing and exterior finishes). Window assemblies, insulation, portions of buildings deemed structurally unsound or hazardous, and hazardous materials that are remediated as part of the project shall not be included in the calculation.

5.105.2.1 Verification of compliance. Documentation shall be provided in the construction documents to demonstrate compliance with Section 5.105.2.

Note: Sample Worksheet WS-3 in Chapter 8 may be used to assist in documenting compliance with this section.

5.105.3 Deconstruction (Reserved).

SECTION 5.106 SITE DEVELOPMENT

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

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

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

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

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

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

The NPDES permits require postconstruction runoff (post-project hydrology) to match the preconstruction runoff (pre-project hydrology) with the installation of postconstruction stormwater management measures. The NPDES permits emphasize runoff reduction through on-site stormwater use, interception, evapotranspiration, and infiltration through nonstructural controls, such as Low Impact Development (LID) practices, and 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.

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

5.106.4 BICYCLE PARKING. For buildings within the authority of California Building Standards Commission as specified in Section 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

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

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

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

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

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

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

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

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

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

5.106.4.2.1 Student bicycle parking. Provide permanently anchored bicycle racks conveniently accessed with a minimum of four two-bike capacity racks per new building.
5.106.4.2.2 Staff bicycle parking. Provide permanent, secure bicycle parking conveniently accessed with a minimum of two 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:

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

5.106.5.3 Electric vehicle (EV) charging. [N] [BSC-CG] Construction to provide electric vehicle infrastructure and facilitate electric vehicle charging shall comply with Section 5.106.5.3.1 EV capable spaces, Section 5.106.5.3.2 Electric vehicle charging stations and associated Table 5.106.5.3.1, or Section 5.106.5.3.6 Electric vehicle charging stations (EVCS)—Power allocation method and associated Table 5.106.5.3.6 and shall be provided in accordance with regulations in the *California Building Code* and the *California Electrical Code*.

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

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

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

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

TABLE 5.106.5.3.1		
TOTAL NUMBER OF ACTUAL PARKING SPACES	NUMBER OF REQUIRED EV CAPABLE SPACES	NUMBER OF EVCS (EV CAPABLE SPACES PROVIDED WITH EVSE)[A,2]
0-9	0	0
10-25	2	0
26-50	8	2
51-75	13	3
76-100	17	4
101-150	25	6
151-200	35	9
201 AND OVER	20 percent of actual parking spaces[1]	25 percent of EV capable spaces[1]

1. Calculation for spaces shall be rounded up to the nearest whole number.
2. The number of required EVCS (EV capable spaces provided with EVSE) in column 3 count toward the total number of required EV capable spaces shown in column 2.
3. At least one Level 2 EVSE shall be provided.

5.106.5.3.2 Electric vehicle charging stations (EVCS) EV capable spaces shall be provided with electric vehicle supply equipment (EVSE) to create EVCS in the number indicated in Table 5.106.5.3.1. The EVCS required by Table 5.106.5.3.1 shall be provided with Level 2 EVSE or DCFC as permitted in Section 5.106.5.3.2.1. At least one Level 2 EVSE shall be provided.

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

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

5.106.5.3.2.1 The installation of each DCFC EVSE shall be permitted to reduce the minimum number of required EV capable spaces without EVSE or EVCS with Level 2 EVSE by five and reduce proportionally the required electrical load capacity to the service panel or subpanel.

5.106.5.3.2.2 The installation of two low power Level 2 EV charging receptacles shall be permitted to reduce the minimum number of required EV capable spaces without EVSE in Table 5.106.5.3.1 by one.

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

5.106.5.3.4 Accessible EVCS.
When EVSE is installed, accessible EVSC shall be provided in accordance with the *California Building Code*, Chapter 11B, Section 11B-228.3.

Note: For EVCS signs, refer to Caltrans Traffic Operations Policy Directive 13-01 (Zero Emission Vehicle Signs and Pavement Markings) or its successor(s).

5.106.5.3.4 Accessible electric vehicle charging station (EVCS). When EVSE is installed, accessible EVCS shall be provided in accordance with the *California Building Code*, Chapter 11B, Section 11B-228.3.

5.106.5.3.5 Electric vehicle charging station signage. Electric vehicle charging stations shall be identified by signage or pavement markings in compliance with Caltrans Traffic Operations Policy Directive 13-01 (Zero Emission Vehicle Signs and Pavement Markings) or its successor(s).

Power allocation method shall include the following:
1. Use any kVA combination of EV capable spaces, low power Level 2, Level 2 or DCFC EVSEs.
2. At least one Level 2 EVSE shall be provided.

5.106.5.3.6 Electric vehicle charging stations (EVCS)—power allocation method. The power allocation method may be used as an alternative to the requirements in Section 5.106.5.3.1, Section 5.106.5.3.2 and associated Table 5.106.5.3.1. Use Table 5.106.5.3.6 to determine the total power in kVA required based on the total number of actual parking spaces.

TABLE 5.106.5.3.6		
TOTAL NUMBER OF ACTUAL PARKING SPACES	MINIMUM TOTAL kVA @ 6.6 kVA	TOTAL kVA REQUIRED IN ANY COMBINATION OF EV CAPABLE,3,4 LOW POWER LEVEL 2, LEVEL 2, 1, 2 OR DCFC
0-9	0	0
10-25	26.4	26.4
26-50	52.8	52.8
51-75	85.8	85.8
76-100	112.2	112.2
101-150	165	165
151-200	231	231
201 AND OVER	20 percent of actual parking spaces x 6.6	Total required kVA = P × .20 × 6.6 Where P = Parking spaces in facility

1. Level 2 EVSE @ 6.6 kVA minimum.
2. At least one Level 2 EVSE shall be provided.
3. Maximum allowed kVA to be utilized for EV capable spaces is 75 percent.
4. If EV capable spaces are utilized, they shall meet the requirements of Section 5.106.5.3.1 EV capable spaces.

5.106.5.4 Additions or alterations to existing buildings or parking facilities [A]. [BSC-CG] Existing buildings or parking facilities being modified by one of the following shall comply with Section 5.106.5.4.1 or 5.106.5.4.2. When EVSE is installed, accessible EVCS shall be provided in accordance with the *California Building Code*, Chapter 11B, Section 11B-228.3.

1. When the scope of construction work includes an increase in power supply to an electric service panel as part of a parking facility addition or alteration.
2. When a new photovoltaic system is installed covering existing parking spaces.
3. When additions or alterations to existing buildings are triggered pursuant to code Section 301.3 and the scope of work includes an increase in power supply to an electric service panel.

Exceptions:
1. On a case-by-case basis where the local enforcing agency has determined compliance with this section is not feasible based upon one of the following conditions:
   a. Where there is no local utility power supply.
   b. Where the local utility is unable to supply adequate power.
   c. Where there is evidence suitable to the local enforcement agency substantiating that additional local utility infrastructure design requirements, directly related to the implementation of Section 5.106.5.3, may adversely impact the construction cost of the project.
   d. Where demonstrated as impracticable excluding local utility service or utility infrastructure issues.
2. Remote parking facilities that do not have access to the building service panel.
3. Parking area lighting upgrades where no trenching is part of the scope of work.
4. Emergency repairs, including but not limited to water line break in parking facilities, natural disaster repairs, etc.

5.106.5.4.1 Existing buildings or parking areas without previously installed EV capable infrastructure [A]. When EV capable infrastructure does not exist at an existing parking facility or building, and the parking facility or building undergoes an addition or alteration listed in Section 5.106.5.4, construction shall include electric vehicle charging in compliance with either Section 5.106.5.3 and associated Table 5.106.5.3.1, or Section 5.106.5.3.6 and associated Table 5.106.5.3.6 for the total number of actual parking spaces being added or altered.

5.106.5.4.2 Existing buildings or parking areas with previously installed EV capable infrastructure [A]. When EV capable infrastructure is available at an existing parking facility or building, and the parking facility or building is undergoing an addition or alteration listed in Section 5.106.5.4, construction shall include electric vehicle charging in compliance with either Section 5.106.5.3 and associated Table 5.106.5.3.1, or Section 5.106.5.3.6 and associated Table 5.106.5.3.6 utilizing the existing EV capable allocated power and infrastructure for the total number of actual parking spaces being added or altered. If the area being added or altered exceeds the existing EV capable capacity, allocated power and infrastructure, provide additional EV charging as needed to comply with this section.

5.106.5.5 Electric vehicle (EV) charging: medium-duty and heavy-duty. [N] [BSG-CG] Construction shall comply with Section 5.106.5.5.1 to facilitate future installation of electric vehicle supply equipment (EVSE). Construction for warehouses, grocery stores and retail stores, office buildings, and manufacturing facilities with planned off-street loading spaces shall also comply with Section 5.106.5.5.1 for future installation of medium- and heavy-duty EVSE.

Exceptions:
1. On a case-by-case basis where the local enforcing agency has determined compliance with this section is not feasible based upon one of the following conditions:
   a. Where there is no local utility power supply.
   b. Where the local utility is unable to supply adequate power.
   c. Where there is evidence suitable to the local enforcing agency substantiating that additional local utility infrastructure design requirements, directly related to the implementation of Section 5.106.5.3, may adversely impact the construction cost of the project.

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

5.106.5.5.1 Electric vehicle charging readiness requirements for warehouses, grocery stores, office buildings, and manufacturing facilities and retail stores with planned off-street loading spaces. [N]

In order to avoid future demolition when adding EV supply and distribution equipment, spare raceway(s) or busway(s) and adequate capacity for transformer(s), service panel(s) or subpanel(s) shall be installed at the time of construction in accordance with the *California Electrical Code*. Construction plans and specifications shall include, but are not limited to, the following:

1. The transformer, main service equipment and subpanels shall meet the minimum power requirement in Table 5.106.5.5.1 to accommodate the dedicated branch circuits for the future installation of EVSE.

2. The construction documents shall indicate one or more location(s) convenient to the planned off-street loading space(s) reserved for medium- and heavy-duty ZEV charging cabinets and charging dispensers, and a pathway reserved for routing of conduit from the termination of the raceway(s) or busway(s) to the charging cabinet(s) and dispenser(s), as shown in Table 5.106.5.5.1.

3. Raceway(s) or busway(s) originating at a main service panel or a subpanel(s) serving the area where potential future medium- and heavy-duty EVSE will be located and shall terminate in close proximity to the potential future location of the charging equipment for medium- and heavy-duty vehicles.

4. The raceway(s) or busway(s) shall be of sufficient size to carry the minimum additional system load to the future location of the charging for medium- and heavy-duty ZEVs as shown in Table 5.106.5.5.1.

TABLE 5.106.5.5.1 RACEWAY CONDUIT AND PANEL POWER REQUIREMENTS FOR MEDIUM- AND HEAVY-DUTY EVSE [N]			
BUILDING TYPE	BUILDING SIZE (SQ. FT.)	NUMBER OF OFF-STREET LOADING SPACES	ADDITIONAL CAPACITY REQUIRED (KVA) FOR RACEWAY & BUSWAY AND TRANSFORMER & PANEL
Grocery	10,000 to 90,000	1 or 2	200
		3 or Greater	400
	Greater than 90,000	1 or Greater	400
Manufacturing Facilities	10,000 to 50,000	1 or 2	200
	10,000 to 50,000	3 or Greater	400
	Greater than 50,000	1 or Greater	400
Office Buildings	10,000 to 135,000	1 or 2	200
	10,000 to 135,000	3 or Greater	400
	Greater than 135,000	1 or Greater	400
Retail	10,000 to 135,000	1 or 2	200
		3 or Greater	400
	Greater than 135,000	1 or Greater	400
Warehouse	20,000 to 256,000	1 or 2	200
		3 or Greater	400
	Greater than 256,000	1 or Greater	400

5.106.5.6 Electric vehicle (EV) charging at public schools and community colleges. [DSA-SS] Electric vehicle infrastructure and electric vehicle charging stations shall comply with Section 5.106.5.6 and shall be provided in accordance with regulations in the California Building Code and the California Electrical Code.

Exceptions:
1. On a case-by-case basis where compliance with this section has been demonstrated to be not feasible based upon one of the following conditions,and with concurrence by the Division of the State Architect (DSA), compliance with Section 5.106.5.6 shall not be required.
   a. Where there is no local utility power supply.
   b. Where the local utility is unable to supply adequate power.
   c. The installation of EVCS is impracticable.
2. Parking spaces accessible only by automated mechanical car parking systems are not required to comply with Section 5.106.5.6.

5.106.5.6.1 EV capable spaces. EV capable spaces shall be provided in accordance with Table 5.106.5.6.1 and the following requirements:

1. Raceways complying with the California Electrical Code and no less than 1-inch (25 mm) diameter shall be provided and 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 EV capable space and into a suitable listed cabinet, box, enclosure or equivalent. A common raceway may be used to serve multiple EV capable spaces.

2. A service panel or subpanel(s) shall be provided with panel space and electrical load capacity for a dedicated 208/240 volt, 40-ampere minimum branch circuit for each EV capable space, with delivery of 30-ampere minimum to an installed EVSE at each EVCS.

3. The electrical system and any on-site distribution transformers shall have sufficient capacity to supply full rated amperage at each EV capable space.

4. The service panel or subpanel circuit directory shall identify the reserved overcurrent protective device space(s) as "EV CAPABLE." The raceway termination location shall be permanently and visibly marked as "EV CAPABLE."

TABLE 5.106.5.6.1		
TOTAL NUMBER OF ACTUAL PARKING SPACES	NUMBER OF REQUIRED EV CAPABLE SPACES	NUMBER OF REQUIRED EVCS[2]
0-9	0	0
10-25	4	1
26-50	8	2
51-75	13	3
76-100	17	4
101-150	25	6
151-200	35	9
201 AND OVER	20 percent of total spaces[1]	25 percent of EV capable spaces[1]

1. Calculation for spaces shall be rounded up to the nearest whole number.
2. Each EVCS shall reduce the number of required EV capable spaces by the same number.

5.106.5.6.2 Electric vehicle charging stations (EVCS). EV capable spaces shall be provided with EVSE to create EVCS in the number indicated in Table 5.106.5.6.1 and shall comply with Section 5.106.5.6.2. EVCS shall be serviced by Level 2 or Direct Current Fast Charging (DCFC) EVSE, or with EVSE in any combination of Level 2 and DCFC. Accessible EVCS shall be provided in accordance with *California Building Code* Chapter 11B.

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PROJECT
NEW INTERVIEW ROOMS AT
Imperial County Department of Social Services
2995 S. 4th Street- Suite 105
El Centro, CA 92243
County Project: SR7117SS

REVISIONS

NO.	DESCRIPTION	DATE
1	PLAN CHECK COMMENT	09-04-25

LICENSED ARCHITECT
JOHN RUMSEY
C-26812
Exp. 3-31-2026
STATE OF CALIFORNIA

SHEET TITLE
CALIFORNIA GREEN CODE STANDARDS

DATE:	04-24-25	SCALE:	AS NOTED
DRAWN BY:	CB	DATABASE:	25115.DWG
CHECKED BY:	JR	SHEET NUMBER:	T2.0
PROJECT NO:	25115		

AIA California 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE

NONRESIDENTIAL MANDATORY MEASURES, SHEET 2 (July 2024 Supplement)

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

Y	N/A	RESPON. PARTY

5.106.5.6.2.1 Reduced number of EV capable spaces. The installation of each DCFC EVSE shall be permitted to reduce the minimum number of required EV capable spaces indicated in Table 5.106.5.6.1 by five and reduce proportionally the required electrical load capacity to the service panel or subpanel.

5.106.5.6.2.2 Multiple connectors. EVSE with multiple vehicle connectors capable of charging multiple EVs simultaneously shall be permitted if the electrical load capacity required by Section 5.106.5.6.1 for each EV capable space is accumulatively supplied to the EVSE.

5.106.5.6.2.3 Use of automatic load management systems (ALMS). ALMS shall be permitted for EVCS installed in accordance with Section 5.105.5.6.2. When ALMS is installed, the required electrical load capacity specified in Section 5.106.5.6.1 for each EVCS may be reduced when serviced by an EVSE controlled by an ALMS. Each EVSE controlled by an ALMS shall deliver a minimum 30 amperes to an EV when charging one vehicle and shall deliver a minimum 3.3 kW while simultaneously charging multiple EVs.

5.106.5.6.3 EVCS alternative compliance. In lieu of compliance with Section 5.106.5.6.2, EVCS shall be provided with Level 1, low power Level 2, or Level 2, or any combination of Level 1, low power Level 2 or Level 2 EVSE such that the total power supplied by the combination of EVSE meets the minimum power indicated in Table 5.106.5.6.3, based on the total number of actual parking spaces in each parking facility.

TABLE 5.106.5.6.3	
NUMBER OF PARKING SPACES IN A PARKING FACILITY	**MINIMUM TOTAL POWER (KVA) REQUIRED FOR EVCS**
0-9	0
10-25	7
26-50	14
51-75	20
76-100	27
101-150	40
151-200	60
201 AND OVER	Total required KVA = P × .05 × 6.6 Where P = Parking spaces in facility

5.106.5.6.4 EVCS for alterations of or additions to parking facilities. Alterations of or additions to parking facilities shall provide EVCS in compliance with Section 5.106.5.6.4. The installation of infrastructure for EV capable spaces required to be provided without EVSE shall not be required.

5.106.5.6.4.1 Alterations of and additions to parking facilities. EVCS shall be provided in accordance with the number indicated in Table 5.106.5.6.1 or minimum power indicated in Table 5.106.5.6.3 when the scope of work includes an increase in power supply to an electric panel serving light fixtures illuminating the parking area or when area containing parking spaces is added to a parking facility. The number of required EVCS shall be based on the total number of existing and new parking spaces in the parking facility.

5.106.5.6.4.2 Alterations consisting of the installation of photovoltaic systems. EVCS shall be provided in accordance with the number indicated in Table 5.106.5.6.1 or maximum power indicated in Table 5.106.5.6.3 when a new photovoltaic system is installed in an existing parking facility.

5.106.5.6.5 Requirement to install EVSE. Level 2 EVSE shall be provided in all existing EV capable spaces to create EVCS when a project is required by California Administrative Code Section 4-309 to be submitted for plan approval to the Division of the State Architect. When EVSE is installed in existing EV capable spaces, accessible EVCS shall be provided in accordance with *California Building Code* Chapter 11B.

Exception: Projects in which improvements in parking areas consist only of accessibility improvements are not required to comply with Section 5.106.5.6.5.

Y	N/A	RESPON. PARTY
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5.106.8 LIGHT POLLUTION REDUCTION. [N]. I Outdoor lighting systems shall be designed and installed to comply with the following:

1. The minimum requirements in the California Energy Code for Lighting Zones 0-4 as defined in Chapter 10, Section 10-114 of the California Administrative Code; and
2. Backlight (B) ratings as defined in IES TM-15-11 (shown in Table A-1 in Chapter 8);
3. Uplight and Glare ratings as defined in California Energy Code (shown in Tables 130.2-A and 130.2-B in Chapter 8) and
4. Allowable BUG ratings not exceeding those shown in Table 5.106.8, [N] or Comply with a local ordinance lawfully enacted pursuant to Section 101.7, whichever is more stringent.

Exceptions: [N]

1. Luminaires that qualify as exceptions in Sections 130.2 (b) and 140.7 of the California Energy Code.
2. Emergency lighting.
3. Building facade meeting the requirements in Table 140.7-B of the California Energy Code, Part 6.
4. Custom lighting features as allowed by the local enforcing agency, as permitted by Section 101.8 Alternate materials, designs and methods of construction.
5. Luminaires with less than 6,200 initial luminaire lumens.

TABLE 5.106.8 [N] MAXIMUM ALLOWABLE BACKLIGHT, UPLIGHT AND GLARE (BUG) RATINGS 1,2					
ALLOWABLE RATING	**LIGHTING ZONE LZ0**	**LIGHTING ZONE LZ1**	**LIGHTING ZONE LZ2**	**LIGHTING ZONE LZ3**	**LIGHTING ZONE LZ4**
MAXIMUM ALLOWABLE BACKLIGHT RATING 3					
Luminaire greater than 2 mounting heights (MH) from property line	N/A	No Limit	No Limit	No Limit	No Limit
Luminaire back hemisphere is 1-2 MH from property line	N/A	B2	B3	B4	B4
Luminaire back hemisphere is 0.5-1 MH from property line	N/A	B1	B2	B3	B3
Luminaire back hemisphere is less than 0.5 MH from property line	N/A	B0	B0	B1	B2
MAXIMUM ALLOWABLE UPLIGHT RATING (U)					
For area lighting 3	N/A	U0	U0	U0	U0
For all other outdoor lighting,including decorative luminaires	N/A	U1	U2	U3	UR
MAXIMUM ALLOWABLE GLARE RATING 3 (G)					
MAXIMUM ALLOWABLE GLARE RATING 3 (G)	N/A	G1	G2	G3	G4
MAXIMUM ALLOWABLE GLARE RATING 3 (G)	N/A	G0	G1	G1	G2
MAXIMUM ALLOWABLE GLARE RATING 3 (G)	N/A	G0	G0	G1	G1
MAXIMUM ALLOWABLE GLARE RATING 3 (G)	N/A	G0	G0	G0	G1

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 *California Administrative Code*.

2. For property lines that abut public walkways, bikeways, plazas and parking lots, the property 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 transit corridor for the purpose of determining compliance with this section.

3. General lighting luminaires in areas such as outdoor parking, sales or storage lots shall meet these reduced ratings. Decorative luminaries located in these areas shall meet *U*-value limits for "all other outdoor lighting"

Y	N/A	RESPON. PARTY
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5.106.8.1 Facing- Backlight
Luminaries within 2MH of a property line shall be oriented so that the nearest property line is behind the fixture, and shall comply with the backlight rating specified in Table 5.106.8 based on the lighting zone and distance to the nearest point of that property line.

Exception: Corners. If two property lines (or two segments of the same property line) have equidistant point to the luminaire, then the luminaire may be oriented so that the intersection of the two lines (the corner) is directly behind the luminaire. The luminaire shall still use the distance to the nearest points(s) on the property lines to determine the required backlight rating.

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

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

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

1. Swales.
2. Water collection and disposal systems.
3. French drains.
4. Water retention gardens.
5. Other water measures which keep surface water away from buildings and aid in groundwater recharge.
   Exception: Additions and alterations not altering the drainage path.

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

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

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

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

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

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

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

DIVISION 5.2 ENERGY EFFICIENCY

SECTION 5.201 GENERAL

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

DIVISION 5.3 WATER EFFICIENCY AND CONSERVATION

SECTION 5.301 GENERAL

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

SECTION 5.302 DEFINITIONS

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

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

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

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

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

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

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

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

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

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

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

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

SECTION 5.303 INDOOR WATER USE

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.

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

1. For each individual leased, rented or other tenant space within the building projected to consume more than 100 gal/day (380 L/day), including, but not limited to, spaces used for laundry or cleaners, restaurant or food service, medical or dental office, laboratory, or beauty salon or barber shop.

2. Where separate submeters for individual building tenants are unfeasible, for water supplied to the following subsystems:
   a. 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).

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

Y	N/A	RESPON. PARTY
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5.303.3 WATER CONSERVING PLUMBING FIXTURES AND FITTINGS. Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall comply with the following:

5.303.3.1 Water Closets. The effective flush volume of all water closets shall not exceed 1.28 gallons per flush. Tank-type water closets shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Tank-Type toilets.

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

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

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

5.303.3.3 Showerheads. [BSC-CG]
5.303.3.3.1 Single showerhead. Showerheads shall have a maximum flow rate of not more than 1.8 gallons per minute at 80 psi. Showerheads shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Showerheads.

5.303.3.3.2 Multiple showerheads serving one shower. When a shower is served by more than one showerhead, the combined flow rate of all the showerheads and/or other shower outlets controlled by a single valve shall not exceed 1.8 gallons per minute at 80 psi, or the shower shall be designed to allow only one shower outlet to be in operation at a time.
Note: A hand-held shower shall be considered a showerhead.

5.303.3.3 Showerheads. [BSC-CG]
5.303.3.3.1 Single showerhead. Showerheads shall have a maximum flow rate of not more than 1.8 gallons per minute at 80 psi. Showerheads shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Showerheads.

5.303.3.3.2 Multiple showerheads serving one shower. When a shower is served by more than one showerhead, the combined flow rate of all the showerheads and/or other shower outlets controlled by a single valve shall not exceed 1.8 gallons per minute at 80 psi, or the shower shall be designed to allow only one shower outlet to be in operation at a time.
Note: A hand-held shower shall be considered a showerhead.

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

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

5.303.3.4.3 Wash fountains. Wash fountains shall have a maximum flow rate of not more than1.8 gallons per minute/20 [rim space (inches) at 60 psi].

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

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

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

5.303.3.4.6 Pre-rinse spray value
When installed, shall meet the requirements in the *California Code of Regulations*, Title 20 (Appliance Efficiency Regulations), Section 1605.1 (h)(4) Table H-2, Section 1605.3 (h)(4)(A), and Section 1607 (d)(7), and shall be equipped with an integral automatic shutoff.

FOR REFERENCE ONLY: The following table and code section have been reprinted from the *California Code of Regulations*, Title 20 (Appliance Efficiency Regulations), Section 1605.1 (h)(4) and Section 1605.3 (h)(4)(A).

TABLE H-2	
STANDARDS FOR COMMERCIAL PRE-RINSE SPRAY VALVES MANUFACTURED ON OR AFTER JANUARY 28, 2019	
PRODUCT CLASS [spray force in ounce force (ozf)]	**MAXIMUM FLOW RATE (gpm)**
Product Class 1 (≤ 5.0 ozf)	1.00
Product Class 2 (> 5.0 ozf and ≤ 8.0 ozf)	1.20
Product Class 3 (> 8.0 ozf)	1.28

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5.303.4 COMMERCIAL KITCHEN EQUIPMENT.

5.303.4.1 Food Waste Disposers. Disposers shall either modulate the use of water to no more than 1 gpm when the disposer is not in use (not actively grinding food waste/no-load) or shall automatically shut off after no more than 10 minutes of inactivity. Disposers shall use no more than 8 gpm of water.
Note: This code section does not affect local jurisdiction authority to prohibit or require disposer installation.

5.303.5 AREAS OF ADDITION OR ALTERATION. For those occupancies within the authority of the California Building Standards Commission as specified in Section 103, the provisions of Section 5.303.3 and 5.303.4 shall apply to new fixtures in additions or areas of alteration to the building.

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

SECTION 5.304 OUTDOOR WATER USE

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

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

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5.304.6 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS. For public schools and community colleges, landscape projects as described in Sections 5.304.6.1 and 5.304.6.2 shall comply with the California Department of Water Resources Model Water Efficient Landscape Ordinance (MWELO) commencing with Section 490 of Chapter 2.7, Division 2, Title 23, *California Code of Regulations*, except that the evapotranspiration adjustment factor (ETAF) shall be 0.65 with an additional water allowance for special landscape areas (SLA) of 0.35.

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

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

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

DIVISION 5.4 MATERIAL CONSERVATION AND RESOURCE EFFICIENCY

SECTION 5.401 GENERAL

5.401.1 SCOPE. The provisions of this chapter specify the requirements of achieving material conservation, resource efficiency, and greenhouse gas (GHG) emission reduction through protection of buildings from exterior moisture, construction waste diversion, employment of techniques to reduce pollution through recycling of materials, the installation of products with lower GHG emissions and building commissioning or testing and adjusting.

SECTION 5.402 DEFINITIONS

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

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

Y	N/A	RESPON. PARTY

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

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

BUY CLEAN CALIFORNIA ACT (BCCA). The Buy Clean California Act (BCCA) (Public Contract Code Sections 3500-3505) targets carbon emissions associated with the production of structural steel (hot-rolled sections, hollow structural sections, and plate), concrete reinforcing steel, flat glass, and mineral wool board insulation. The maximum acceptable global warming potential (GWP) limits are established by the Department of General Services (DGS), in consultation with the California Air Resources Board (CARB).

CRADLE-TO-GRAVE. Activities associated with a product or building's life cycle from the extraction stage through disposal stage, and covering modules A1 through C4 in accordance with ISO Standards 14025 and 21930.

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

REFERENCE STUDY PERIOD. The period of use for the building, in years, that will be assumed for life cycle assessment.

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

TYPE III ENVIRONMENTAL PRODUCT DECLARATION (EPD). A third-party verified report that summarizes how a product impacts the environment. Type III EPDs can be either product-specific, factory-specific, or industry-wide EPDs. See "Cradle-to-Gate."

FACTORY-SPECIFIC EPD. A product-specific Type III EPD in which the environmental impacts can be attributed to a single manufacturer and manufacturing facility.

INDUSTRY-WIDE EPD (IW-EPD). A Type III EPD in which the environmental impacts are an average of the typical manufacturing impacts for a range of products within the same product category for a group of manufacturers.

PRODUCT-SPECIFIC EPD. A Type III EPD in which the environmental impacts can be attributed to a product design and manufacturer across multiple facilities.

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SECTION 5.407 WATER RESISTANCE AND MOISTURE MANAGEMENT

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

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

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

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

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

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

5.407.2.2.2 Flashing. Install flashings integrated with a drainage plane.

SECTION 5.408 CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING

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

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

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

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

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

Exceptions to Sections 5.408.1.1 and 5.408.1.2:

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

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

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

Notes:

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

☒	☐	Contractor

5.408.2 UNIVERSAL WASTE. [A] Additions and alterations to a building or tenant space that meet the scoping provisions in Section 301.3 for nonresidential additions and alterations, shall require verification that Universal Waste items such as fluorescent lamps and ballast and mercury containing thermostats as well as other California prohibited Universal Waste materials are disposed of properly and are diverted from landfills. A list of prohibited Universal Waste materials shall be included in the construction documents.

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

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

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

Notes:

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

SECTION 5.409 LIFE CYCLE ASSESSMENT

5.409.1 SCOPE. [BSC-CG] Effective July 1, 2024, projects consisting of newly constructed building(s) with a combined floor area of 100,000 square feet or greater shall comply with either Section 5.409.2 or Section 5.409.3. Alteration(s) to existing building(s) where the combined altered floor area is 100,000 square feet or greater shall comply with either Section 5.105.2, 5.409.2, or 5.409.3. Addition(s) to existing building(s) where the total floor area combined with the existing building(s) is 100,000 square feet or greater shall comply with either Section 5.105.2, Section 5.409.2, or Section 5.409.3. Effective January 1, 2026, the combined floor area shall be 50,000 square feet or greater.

[DSA-SS] Projects consisting of newly constructed building(s) with a combined floor area of 50,000 square feet or greater shall comply with either Section 5.409.2 or Section 5.409.3. Alteration(s) to existing building(s) where the combined altered floor area is 50,000 square feet or greater shall comply with either Section 5.105.2, 5.409.2, or 5.409.3. Addition(s) to existing building(s) where the total floor area combined with the existing building(s) is 50,000 square feet or greater shall comply with either Section 5.105.2, Section 5.409.2, or Section 5.409.3.

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Contact: Raul Carrasco

PROJECT
NEW INTERVIEW ROOMS AT
Imperial County Department of Social Services
2995 S. 4th Street- Suite 105
El Centro, CA 92243
County Project: SR7117SS

REVISIONS

NO.	DESCRIPTION	DATE
2	PLAN CHECK COMMENT	09-04-25

LICENSED ARCHITECT
JOHN RUMSEY
C-26813
Exp. 3-31-2026
STATE OF CALIFORNIA

SHEET TITLE
CALIFORNIA GREEN CODE STANDARDS

DATE:	04-24-25
DRAWN BY:	CB
CHECKED BY:	JR
PROJECT NO.	25115
SCALE:	AS NOTED
DATABASE:	25115.DWG
SHEET NUMBER:	T2.1

AIA California 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE

NONRESIDENTIAL MANDATORY MEASURES, SHEET 3 (July 2024 Supplement)

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

Y	N/A	RESPON. PARTY
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5.409.2 Whole building life cycle assessment. Projects shall conduct a cradle-to-grave whole building life cycle assessment performed in accordance with ISO 14040 and ISO 14044, excluding operating energy, and demonstrating a minimum 10-percent reduction in global warming potential (GWP) as compared to a reference baseline building of similar size, function, complexity, type of construction, material specification, and location that meets the requirements of the California Energy Code currently in effect. Software used to conduct the whole building life cycle assessment, including reference baseline building, shall have a data set compliant with ISO 14044, and ISO 21930 or EN 15804, and the software shall conform to ISO 21931 and/or EN 15978. The software tools and data sets shall be the same for evaluation of both the baseline building and the proposed building.

Notes:
1. Software for calculating whole building life cycle assessment is available for free at Athena Sustainable Materials Institute (https://calculatelca.com/software/impact-estimator/) and OneClick LCA-Planetary (www.oneclicklca.com/planetary). Paid versions include, but are not limited to, Sphera GaBi Solutions (gabi.sphera.com), SimaPro (simapro.com), One-Click LCA (www.oneclicklca.com) and Tally for Revit (apps.autodesk.com).

2. ASTM E2921-22 "Standard Practice for Minimum Criteria for Comparing Whole Building Life Cycle Assessments for Use with Building Codes, Standards, and Rating Systems" may be consulted for the assessment.

3. In addition to the required documentation specified in Section 5.409.2.3, Worksheet WS-9 may be required by the enforcing entity to demonstrate compliance with the requirements.

5.409.2.1 Building components. Building enclosure components included in the assessment shall be limited to glazing assemblies, insulation, and exterior finishes. Primary and secondary structural members included in the assessment shall be limited to footings and foundations, and structural columns, beams, walls, roofs, and floors.

5.409.2.2 Reference study period. The reference study period of the proposed building shall be equal to the reference baseline building and shall be 60 years.

5.409.2.3 Verification of compliance. A summary of the GWP analysis produced by the software and Worksheet WS-4 signed by the design professional of record shall be provided in the construction documents as documentation of compliance. A copy of the whole building life cycle assessment which includes the GWP analysis produced by the software, in addition to maintenance and training information, shall be included in the operation and maintenance manual and shall be provided to the owner at the close of construction. The enforcing agency may require inspection and inspection reports in accordance with Sections 702.2 and 703.1 during and at completion of construction to demonstrate substantial conformance. Inspection shall be performed by the design professional of record or third party acceptable to the enforcing agency.

Y	N/A	RESPON. PARTY
☒	☐	Contractor

5.409.3 Product GWP compliance—prescriptive path. Each product that is permanently installed and listed in Table 5.409.3 shall have a Type III environmental product declaration (EPD), either product-specific or factory-specific.

TABLE 5.409.3
PRODUCT GWP LIMITS

BUY CLEAN CALIFORNIA MATERIALS PRODUCT CATEGORY[1]	MAXIMUM ACCEPTABLE GWP VALUE (unfabricated) ($GWP_{allowed}$)	UNIT OF MEASUREMENT
Hot-rolled structural steel sections	1.77	MT CO_2e/MT
Hollow structural sections	3.00	MT CO_2e/MT
Steel plate	2.61	MT CO_2e/MT
Concrete reinforcing steel	1.56	MT CO_2e/MT
Flat glass	2.50	MT CO_2e/MT [4]
Light-density mineral wool board insulation	5.83	kg CO_2e/MT
Heavy-density mineral wool board insulation	14.28	kg CO_2e/MT
Concrete, Ready-Mixed[2], [3]		
CONCRETE PRODUCT CATEGORY	**MAXIMUM GWP ALLOWED VALUE ($GWP_{allowed}$)**	**UNIT OF MEASUREMENT**
up to 2499 psi	450	kg CO_2e/m^3
2500–3499 psi	489	kg CO_2e/m^3
3500–4499 psi	566	kg CO_2e/m^3
4500–5499 psi	661	kg CO_2e/m^3
5500–6499 psi	701	kg CO_2e/m^3
6500 psi and greater	799	kg CO_2e/m^3
Concrete, Lightweight Ready-Mixed[2]		
CONCRETE PRODUCT CATEGORY	**MAXIMUM GWP ALLOWED VALUE ($GWP_{allowed}$)**	**UNIT OF MEASUREMENT**
up to 2499 psi	875	kg CO_2e/m^3
2500–3499 psi	956	kg CO_2e/m^3
3500–4499 psi	1039	kg CO_2e/m^3

1. The GWP values of the products listed in Table 5.409.3 are based on 175 percent of Buy Clean California Act (BCCA) GWP values, except for concrete products which are not included in the BCCA.
2. For concrete, 175 percent of the National Ready Mixed Concrete Association (NRMCA) 2022 version 3 Pacific Southwest regional benchmark values are used for the GWP allowed, except for High Early Strength.
3. Concrete High Early Strength ready-mixed shall be calculated at 130 percent of the ready-mixed concrete GWP allowed values for each product category.
4. The GWP unit for flat glass has been adjusted to correct an error in the express terms. With the revised unit (MT CO2e/MT), reported GWP values will align with industry data as published in the CLF North American Material Baselines (2023).

5.409.3.1 Products shall not exceed the maximum GWP value specified in Table 5.409.3.

Exception: Concrete may be considered one product category to meet compliance with this section. A weighted average of the maximum GWP for all concrete mixes installed in the project shall be less than the weighted average maximum GWP allowed per Table 5.409.3 using Exception Equation 5.409.3.1. Calculations shall be performed with consistent units of measurement for the material quantity and the GWP value.

For the purposes of this exception, industry-wide EPDs are acceptable.

Exception EQUATION 5.409.3.1

$GWP_n < GWP_{allowed}$
where
$GWP_n = \Sigma\ (GWP_n)(v_n)$
and
$GWP_{allowed} = \Sigma\ (GWP_{allowed})(v_n)$
and
$_n$ = each concrete mix installed in the project
GWP_n = the GWP for concrete mix $_n$ per concrete mix EPD, in kg CO2e/m3
$GWP_{allowed}$ = the GWP potential allowed for concrete mix $_n$ per Table 5.409.3
v_n = the volume of concrete mix $_n$ installed in the project, in m3

Y	N/A	RESPON. PARTY
☒	☐	Owner

5.409.3.2 Verification of compliance. Calculations to demonstrate compliance, Type III EPDs for products required to comply, if included in the project, and Worksheet WS-5 signed by the design professional of record shall be provided on the construction documents. Updated EPDs for products used in construction shall be provided to the owner at the close of construction and to the enforcement entity upon request. The enforcing agency may require inspection and inspection reports in accordance with Sections 702.2 and 703.1 during and at completion of construction to demonstrate substantial conformance. Inspection shall be performed by the design professional of record or third party acceptable to the enforcing agency.

SECTION 5.410 BUILDING MAINTENANCE AND OPERATIONS

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

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

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

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

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

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

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

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

Commissioning requirements shall include:

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

Exceptions:

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

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

Informational Notes:

1. . . Functional performance testing for heating, ventilation, air conditioning systems and lighting controls must be performed in compliance with the *California Energy Code*.

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

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

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

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

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

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

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

5.410.2.5 Documentation and training. [N] A Systems Manual and Systems Operations Training are required, including Occupational Safety and Health Act (OSHA) requirements in *California Code of Regulations* (CCR), Title 8, Section 5142, and other related regulations.

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

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

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

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

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

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

Y	N/A	RESPON. PARTY

5.410.4.2 (Reserved)

Note: For energy-related systems under the scope (Section 100) of the California Energy Code, including heating, ventilation, air conditioning (HVAC) systems and controls, indoor lighting system and controls, as well as water heating systems and controls, refer to California Energy Code Section 120.8 for commissioning requirements and Sections 120.5, 120.6, 130.4, and 140.9(b)3 for additional testing requirements of specific systems.

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

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

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

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

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

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

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

DIVISION 5.5 ENVIRONMENTAL QUALITY

SECTION 5.501 GENERAL

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

SECTION 5.502 DEFINITIONS

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

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

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

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

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

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

Note: See CCR, Title 17, Section 93120.1.

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

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

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

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

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

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

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

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

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

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

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

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

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

MERV. Filter minimum efficiency reporting value, based on ASHRAE 52.2–1999.

MAXIMUM INCREMENTAL REACTIVITY (MIR). The maximum change in weight of ozone formed by adding a compound to the "Base REactive Organic Gas (ROG) Mixture" per weight of compound added, expressed to hundreths of a gram (g O^3/g ROC).

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

PSIG. Pounds per square inch, guage.

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

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

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

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

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 hydrogen and may contain oxygen, nitrogen and other elements. See CCR Title 17, Section 94508(a).

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

Y	N/A	RESPON. PARTY
☐	☒	
☒	☐	Contractor
☐	☒	
☒	☐	Contractor
☐	☒	
☒	☐	Contractor

SECTION 5.503 FIREPLACES

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

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

SECTION 5.504 POLLUTANT CONTROL

5.504.1 TEMPORARY VENTILATION. The permanent HVAC system shall only be used during construction if necessary to condition the building or areas of addition or alteration within the required temperature range for material and equipment installation. If the HVAC system is used during construction, use return air filters with a Minimum Efficiency Reporting Value (MERV) of 8, based on ASHRAE 52.2-1999, or an average efficiency of 30% based on ASHRAE 52.1-1992. Replace all filters immediately prior to occupancy, or, if the building is occupied during alteration, at the conclusion of construction.

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

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

5.504.4.1 Adhesives, sealants and caulks. Adhesives, sealants, and caulks used on the project shall meet the requirements of the following standards:
1. Adhesives, adhesive bonding primers, adhesive primers, sealants, sealant primers and caulks shall comply with local or regional air pollution control or air quality management district rules where applicable, or SCAQMD Rule 1168 VOC limits, as shown in Tables 5.504.4.1 and 5.504.4.2. Such products also shall comply with the Rule 1168 prohibition on the use of certain toxic compounds (chloroform, ethylene dichloride, methylene chloride, perchloroethylene and trichloroethylene), except for aerosol products as specified in subsection 2, below.

2. Aerosol adhesives, and smaller unit sizes of adhesives, and sealant or caulking compounds (in units of product, less packaging, which do not weigh more than one pound and do not consist of more than 16 fluid ounces) shall comply with statewide VOC standards and other requirements, including prohibitions on use of certain toxic compounds, of *California Code of Regulations*, Title 17, commencing with Section 94507.

TABLE 5.504.4.1 - ADHESIVE VOC LIMIT[1,2]
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
FIBERGLASS	80

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

TABLE 5.504.4.2 - SEALANT VOC LIMIT
Less Water and Less Exempt Compounds in Grams per Liter

SEALANTS	CURRENT VOC LIMIT
ARCHITECTURAL	250
MARINE DECK	760
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.

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Contact: Raul Carrasco

PROJECT
NEW INTERVIEW ROOMS AT
Imperial County Department of Social Services
2995 S. 4th Street- Suite 105
El Centro, CA 92243
County Project: SR7117SS

REVISIONS

NO.	DESCRIPTION	DATE
1	PLAN CHECK COMMENT	09-04-25

LICENSED ARCHITECT
JOHN RUMSEY
C26819
Exp. 3-31-2026
STATE OF CALIFORNIA

SHEET TITLE
CALIFORNIA GREEN CODE STANDARDS

DATE:	04-24-25
SCALE:	AS NOTED
DRAWN BY:	CB
DATABASE:	25115.DWG
CHECKED BY:	JR
PROJECT NO:	25115
SHEET NUMBER:	T2.2

AIA California 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE

NONRESIDENTIAL MANDATORY MEASURES, SHEET 4 (July 2024 Supplement)

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

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 compounds 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.

TABLE 5.504.4.3 - VOC CONTENT LIMITS FOR ARCHITECTURAL COATINGS[2,3]

GRAMS OF VOC PER LITER OF COATING, LESS WATER & LESS EXEMPT COMPOUNDS

COATING CATEGORY	CURRENT VOC LIMIT
FLAT COATINGS	50
NONFLAT COATINGS	100
NONFLAT HIGH GLOSS COATINGS	150
SPECIALTY COATINGS	
ALUMINUM ROOF COATINGS	400
BASEMENT SPECIALTY COATINGS	400
BITUMINOUS ROOF COATINGS	50
BITUMINOUS ROOF PRIMERS	350
BOND BREAKERS	350
CONCRETE CURING COMPOUNDS	350
CONCRETE/MASONRY SEALERS	100
DRIVEWAY SEALERS	50
DRY FOG COATINGS	150
FAUX FINISHING COATINGS	350
FIRE RESISTIVE COATINGS	350
FLOOR COATINGS	100
FORM-RELEASE COMPOUNDS	250
GRAPHIC ARTS COATINGS (SIGN PAINTS)	500
HIGH-TEMPERATURE COATINGS	420
INDUSTRIAL MAINTENANCE COATINGS	250
LOW SOLIDS COATINGS[1]	120
MAGNESITE CEMENT COATINGS	450
MASTIC TEXTURE COATINGS	100
METALLIC PIGMENTED COATINGS	500
MULTICOLOR COATINGS	250
PRETREATMENT WASH PRIMERS	420
PRIMERS, SEALERS, & UNDERCOATERS	100
REACTIVE PENETRATING SEALERS	350
RECYCLED COATINGS	250
ROOF COATINGS	50
RUST PREVENTATIVE COATINGS	250
SHELLACS:	
CLEAR	730
OPAQUE	550
SPECIALTY PRIMERS, SEALERS & UNDERCOATERS	100
STAINS	250
STONE CONSOLIDANTS	450
SWIMMING POOL COATINGS	340
TRAFFIC MARKING COATINGS	100
TUB & TILE REFINISH COATINGS	420
WATERPROOFING MEMBRANES	250
WOOD COATINGS	275
WOOD PRESERVATIVES	350
ZINC-RICH PRIMERS	340

1. 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 the requirements of the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers." Version 1.2, January 2017 (Emission testing method for California Specifications 01350).

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

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

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

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

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

5.504.4.5.3 Documentation. Verification of compliance with this section shall be provided as requested by the enforcing agency. Documentation shall include at least one of the following:
1. Product certifications and specifications.
2. Chain of custody certifications.
3. Product labelled and invoiced as meeting the Composite Wood Products regulation (see CCR, Title 17, Section 93120, et seq.).
4. Exterior grade products marked as meeting the PS-1 or PS-2 standards of the Engineered Wood Association, the Australian AS/NZS 2269 or European 636 3S standards.
5. Other methods acceptable to the enforcing agency.

TABLE 5.504.4.5 - FORMALDEHYDE LIMITS[1]

MAXIMUM FORMALDEHYDE EMISSIONS IN PARTS PER MILLION

PRODUCT	CURRENT LIMIT
HARDWOOD PLYWOOD VENEER CORE	0.05
HARDWOOD PLYWOOD COMPOSITE CORE	0.05
PARTICLE BOARD	0.09
MEDIUM DENSITY FIBERBOARD	0.11
THIN MEDIUM DENSITY FIBERBOARD[2]	0.13

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 ADDITIONAL INFORMATION, SEE CALIFORNIA CODE OF REGULATIONS, TITLE 17, SECTIONS 93120 THROUGH 93120.12.
2. THIN MEDIUM DENSITY FIBERBOARD HAS A MAXIMUM THICKNESS OF 5/16 INCHES (8 MM).

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

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

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

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

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

5.504.4.8 Acoustical ceiling and wall panels.
Comply with the requirements of the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers, " Version 1.2, January 2017 (Emission testing method for California Specification 01350).
See California Department of Public Health's website for certification programs and testing labs.

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

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

Exceptions: Existing mechanical equipment.

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

☒	☐	Owner

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

SECTION 5.505 INDOOR MOISTURE CONTROL

☒	☐	Engineer

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

SECTION 5.506 INDOOR AIR QUALITY

☒	☐	Engineer

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

☒	☐	Engineer

5.506.2 CARBON DIOXIDE (CO_2) MONITORING. For buildings or additions equipped with demand control ventilation, CO_2 sensors and ventilation controls shall be specified and installed in accordance with the requirements of the California Energy Code, Section 120(c)(4).

☐	☒	

5.506.3 Carbon dioxide (CO2) monitoring in classrooms.
(DSA-SS) Each public K-12 school classroom, as listed in Table 120.1-A of the *California Energy Code*, shall be equipped with a carbon dioxide monitor or sensor that meets the following requirements:
1. The monitor or sensor shall be permanently affixed in a tamper-proof manner in each classroom between 3 and 6 feet (914 mm and 1829 mm) above the floor and at least 5 feet (1524 mm) away from door and operable windows.
2. When the monitor or sensor is not integral to an Energy Management Control System (EMCS), the monitor or sensor shall display the carbon dioxide readings on the device. When the sensor is integral to an EMCS, the carbon dioxide readings shall be available to and regularly monitored by facility personnel.
3. A monitor shall provide notification though a visual indicator on the monitor when the carbon dioxide levels in the classroom have exceeded 1,100ppm. A sensor integral to an EMCS shall provide notification to facility personnel through a visual and/or audible indicator when the carbon dioxide levels in the classroom have exceeded 1,100ppm.
4. The monitor or sensor shall measure carbon dioxide levels at minimum 15- minute intervals and shall maintain a record of previous carbon dioxide measurements of not less than 30 days duration.
5. The monitor or sensor used to measure carbon dioxide levels shall have the capacity to measure carbon dioxide levels with a range of 400ppm to 2000ppm or greater.
6. The monitor or sensor shall be certified by the manufacturer to be accurate within 75ppm at 1,000ppm carbon dioxide concentration and shall be certified by the manufacturer to require calibration no more frequently than once every 5 years.

SECTION 5.507 ENVIRONMENTAL COMFORT

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

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

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

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

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

   Exceptions:

   1. L_{dn} or CNEL for military airports shall be determined by the facility Air Installation Compatible Land Use Zone (AICUZ) plan.
   2. L_{dn} 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 L_{dn} noise contour of a freeway or expressway, railroad, industrial source or fixed-guideway source as determined by the Noise Element of the General Plan.

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

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

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

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

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

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

SECTION 5.508 OUTDOOR AIR QUALITY

5.508.1 Ozone depletion and greenhouse gas reductions. Installations of HVAC, refrigeration and fire suppression equipment shall comply with Sections 5.508.1.1 and 5.508.1.2.

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

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

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

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

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

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

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

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

5.508.2.1.3 Flared tubing connections. Double-flared tubing connections may be used for pressure controls, valve pilot lines and oil.

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

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

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

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

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

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

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

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

5.508.2.2.2.2.1 Chain tethers. Chain tethers to fit ovr the stem are required for valves designed to have seal caps.

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

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

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

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

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

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

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

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

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

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

5.508.2.6.2 Second vacuum. Pull a second system vacuum to a minimum of 500 microns and hold for 30 minutes.

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

CHAPTER 7
INSTALLER & SPECIAL INSPECTOR QUALIFICATIONS

702 QUALIFICATIONS

702.1 INSTALLER TRAINING. HVAC 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 responsibility of a person trained and certified to install HVAC systems or contractor licensed to install HVAC systems. Examples of acceptable HVAC training and certification programs include but are not limited to the following:

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

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

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

Notes:

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

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

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

703 VERIFICATIONS

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

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PROJECT
NEW INTERVIEW ROOMS AT
Imperial County Department of Social Services
2995 S. 4th Street - Suite 105
El Centro, CA 92243
County Project: SR7117SS

REVISIONS

NO.	DESCRIPTION	DATE
1	PLAN CHECK COMMENT	09-01-25

LICENSED ARCHITECT JOHN RUMSEY C-26818 Exp. 3-31-2026 STATE OF CALIFORNIA

SHEET TITLE
CALIFORNIA GREEN CODE STANDARDS

DATE: 04-24-25	SCALE: AS NOTED
DRAWN BY: CB	DATABASE: 25115.DWG
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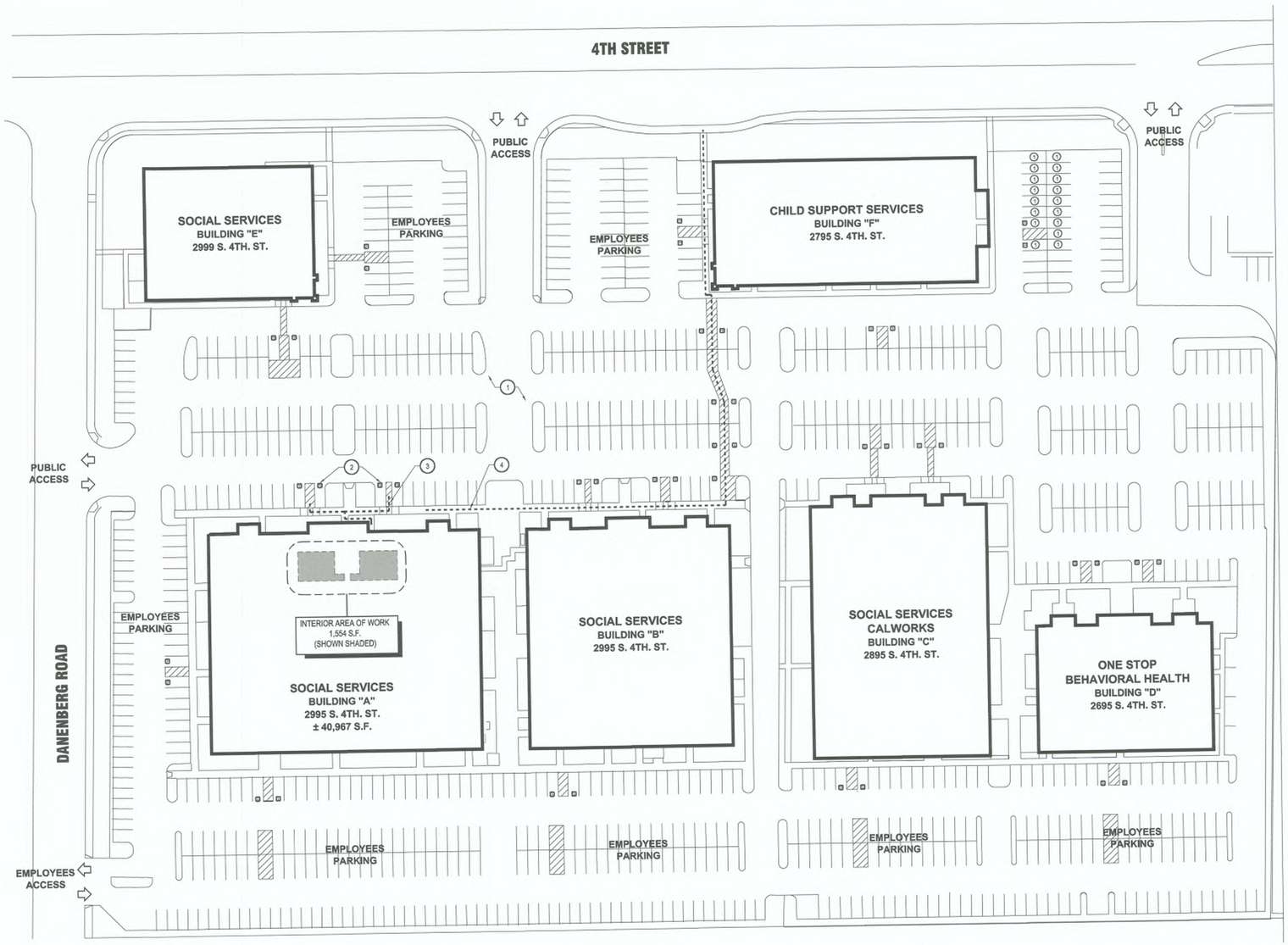

NORTH

SITE PLAN

1"=50'-0"

A

SHEET KEYNOTES

1. EXISTING PARKING LOT.
2. EXISTING ACCESSIBLE PARKING SPACES, NO CHANGE PROPOSED.
3. EXISTING ACCESSIBLE PATH OF TRAVEL, NO CHANGE PROPOSED.
4. EXISTING PEDESTRIAN ACCESSIBLE PATH OF TRAVEL FROM PUBLIC WAY, NO CHANGE PROPOSED.

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REVISIONS

NO.	DESCRIPTION	DATE
1	PLAN CHECK COMMENT	06-04-25

LICENSED ARCHITECT
JOHN RUMSEY
C 26819
Exp. 3-31-2026
STATE OF CALIFORNIA

SHEET TITLE

EXISTING SITE PLAN

DATE: 04-24-25	SCALE: AS NOTED
DRAWN BY: CB	DATABASE: 25115.DWG
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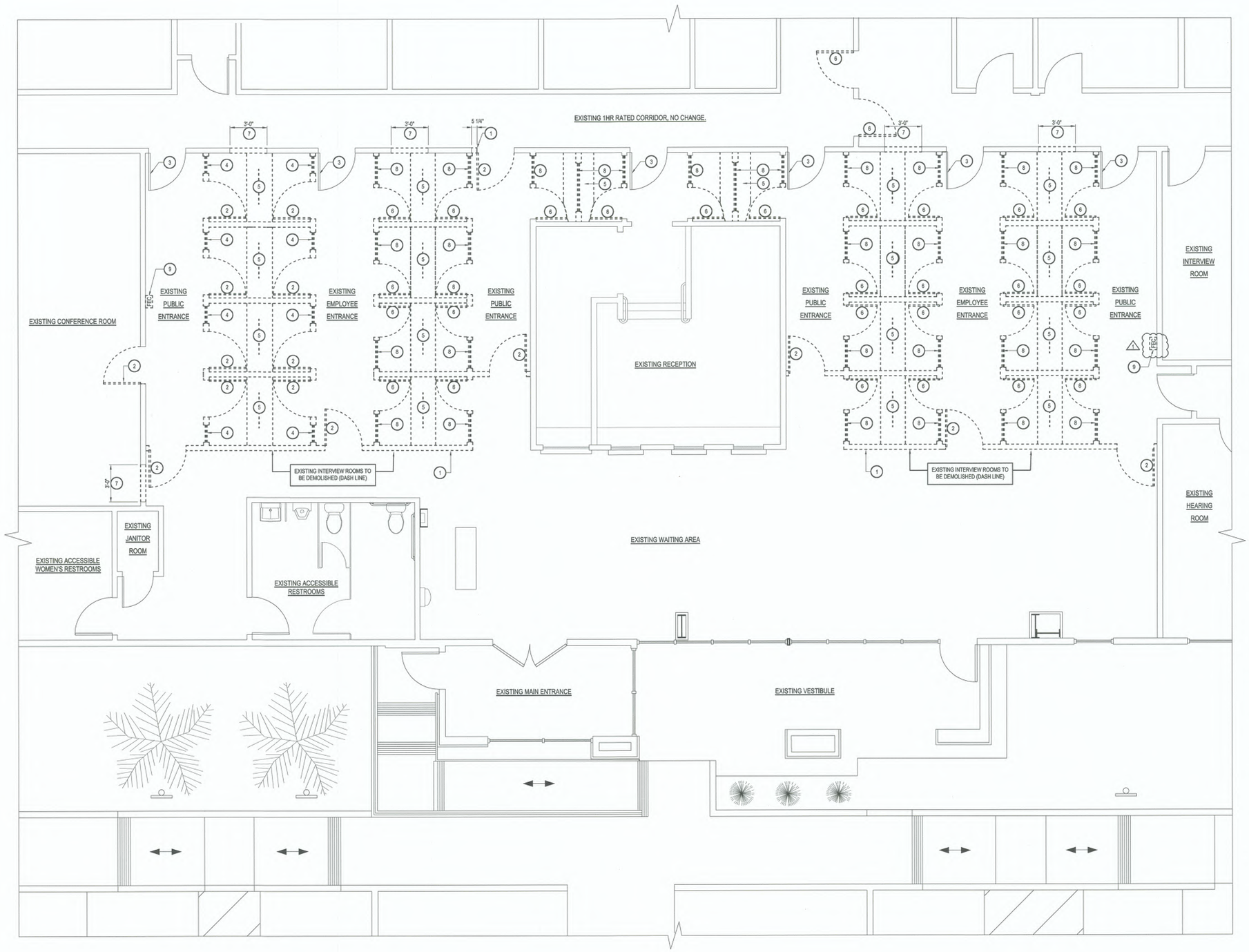
PROJECT NO: 25115	



DEMOLITION FLOOR PLAN

NORTH

1/8"=1'-0"

A

DEMOLITION NOTES

1. THIS PLAN DOES NOT INDICATE ALL ITEMS (I.E. DUCTWORK, FLOOR IRREGULARITIES) THAT MAY REQUIRE DEMOLITION. PERFORM ALL DEMOLITION WORK AS REQUIRED FOR COMPLETION OF THIS PROJECT.
2. THE CONTRACTOR SHALL VERIFY EXISTING/FIELD CONDITIONS AND INSPECT SITE CONDITIONS PRIOR TO SUBMITTA A BID. NO ADDITIONAL COSTS WILL BE ACCEPTED FOR CONDITIONS THAT HAVE NOT BEEN FIELD VERIFIED PRIOR TO BIDDING.
3. REMOVE EXISTING IRREGULARITIES IN FLOOR (I.E. ANCHOR BOLTS AND CONCRETE POURS), ANY AND ALL UNDER-SLAB LINES (PLUMBING OR ELECTRICAL) BEING ABANDONED ARE TO BE CLEANED AND CAPPED BENEATH THE SURFACE OF THE SLAB AND THE CONCRETE SLAB SHALL BE PATCHED. LEVEL FLOOR AS REQUIRED.
4. REUSE MATERIALS WHEREVER FEASIBLE. ALL TRASH AND UN-REUSEABLE MATERIALS CREATED AS A RESULT OF DEMOLITION WORK SHALL BE PROPERLY DISPOSED OF OFF-SITE. CONTRACTOR SHALL VERIFY RESTRICTIONS REGARDING THE DISPOSAL OF CONSTRUCTION DEBRIS PRIOR TO BIDDING.
5. NO BURNING OR SELLING OF ANY MATERIALS CREATED AS A RESULT OF DEMOLITION WILL BE PERMITTED.
6. THE CONTRACTOR SHALL MAINTAIN CLEANLINESS THROUGHOUT THE PROJECT AND THE FRONT OF THE SPACE FOR PEDESTRIAN SAFETY.
7. DEMOLITION SHALL INCORPORATE THOSE SUBORDINATE ITEMS NOT SHOWN SPECIFICALLY ON THIS PLAN, BUT REQUIRED TO BE REMOVED IN ORDER TO COMPLETE THE PROJECT.
8. MINIMIZE DUST TRANSMISSION VIA DUST BARRIERS OF POLYETHYLENE SHEETING.
9. THE PROCEDURES TO BE USED FOR THE WORK SHALL PROVIDE FOR SAFE CONDUCT OF THE WORK, CAREFUL REMOVAL, AND DISPOSITION OF MATERIALS, PROTECTION OF PROPERTY WHICH IS TO REMAIN UNDISTURBED AND COORDINATE WITH OTHER WORK IN PROGRESS.
10. CONTRACTOR SHALL INSURE THERE IS NO INTERFERENCE WITH ROADS, STREETS, DRIVEWAYS, LOADING DOCKS, AND ADJACENT FACILITIES. CONTRACTOR SHALL OBTAIN PERMISSION FROM THE OWNER AND BUILDING DEPARTMENT BEFORE OBSTRUCTING THE ABOVE.
11. DURING REMOVAL OPERATIONS, ALL PERSONS AND PROPERTY SHALL BE PROTECTED. THE WORK SHALL PROCEED IN SUCH A MANNER AS TO MINIMIZE ANY SPREAD OF DUST, DEBRIS, AND FLYING PARTICLES AND SO THAT ANY RELATED EFFECTS OF DEMOLITION OR REMOVAL DO NOT INTERFERE WITH SURROUNDING EQUIPMENT, PERSONNEL, OR BUILDING(S).
12. CONTRACTOR TO REMOVE ALL DEBRIS FROM THE SITE AND DISPOSE OF OFF PREMISES PER LOCAL REQUIREMENTS.
13. VERIFY ALL UTILITY, SEWER, OR OTHER SERVICES BEFORE CORE DRILLING, SAW-CUTTING, AND/OR TRENCHING. PROVIDE BACK-FILL COMPACTION INFORMATION TO THE BUILDING DEPARTMENT AS REQUIRED.
14. PREPARE FLOOR SURFACE FOR STONE, VINYL, AND CARPET FLOORING. PROVIDE LEVELING CONCRETE AND GRINDING/SMOOTHING OF ANY EXISTING IRREGULARITIES.
15. ASBESTOS CONTAINING MATERIAL (ACM)-THIS CONTRACTOR SHALL NOT BE RESPONSIBLE FOR THE REMOVAL OF ANY ACM FOUND ON THIS PROJECT. ADVISE OWNER/ARCHITECT IMMEDIATLY IF ACM IS FOUND ON THIS SITE.
16. SAVE EXISTING R-30 INSULATION OVER CEILING TILES TO BE REUSED, SEE KEYNOTE # 4 UNDER DEMOLITION CEILING PLAN ON SHEET A1.1.

SHEET KEYNOTES

1. EXISTING WALL TO BE REMOVED, TYP.
2. EXISTING WOOD VISION-LITE DOOR WITH TIMELY FRAME TO BE REMOVED AND RELOCATED PER NEW FLOOR PLAN LAYOUT ON SHEET A2.0, TYP.
3. EXISTING DOOR TO REMAIN, TYP.
4. EXISTING WINDOW (1'-6" X 4'-0" H) TO BE REMOVED AND RELOCATED PER NEW FLOOR PLAN LAYOUT ON SHEET A2.0, TYP.
5. EXISTING MILLWORK AND CLEAR ACRYLIC WINDOW TO BE REMOVED, TYP.
6. EXISTING DOOR TO BE REMOVED, TYP.
7. NEW WALL OPENING, COORDINATE WITH NEW INTERVIEW FLOOR PLAN LAYOUT ON SHEET A2.0.
8. EXISTING WINDOW TO BE REMOVED, TYP.
9. EXISTING FIRE EXTINGUISHER TO BE RELOCATED, REFER TO NEW INTERVIEW FLOOR PLAN ON SHEET A2.0.

DEMOLITION PLAN WALL LEGEND

- EXISTING METAL STUD WALL AND ELEMENTS TO DEMO.
- EXISTING WALLS AND ELEMENTS TO REMAIN

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PROJECT

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2995 S. 4th Street- Suite 105
El Centro, CA 92243
County Project: SR7117SS

REVISIONS

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DEMOLITION FLOOR PLAN

DATE: 04-24-25	SCALE: AS NOTED
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PROJECT NO. 25115	

NORTH

DEMOLITION CEILING PLAN

1/4"=1'-0" — A

SHEET KEYNOTES

1. EXISTING T-BAR CEILING TO BE DEMO, TYP.
2. EXISTING LIGHT FIXTURE TO BE REMOVED, TYP.
3. EXISTING MECHANICAL DIFFUSER TO REMAIN.
4. SAVE EXISTING R-30 INSULATION ABOVE CEILING TILES TO BE REUSED, SEE DETAIL C/AD1.0.

DEMOLITION CEILING PLAN LEGEND

CEILING LEGEND

SYMBOL	DESCRIPTION
	EXISTING SUSPENDED CEILING T-BAR GRID SYSTEM AND LIGHTING TO BE DEMOLISHED.
	EXISTING SUSPENDED CEILING T-BAR GRID SYSTEM AND LIGHTING TO REMAIN AS IS.

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NO.	DESCRIPTION	DATE

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JOHN RUMSEY
C26819
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DEMOLITION CEILING PLAN

DATE:	04-24-25	SCALE:	AS NOTED
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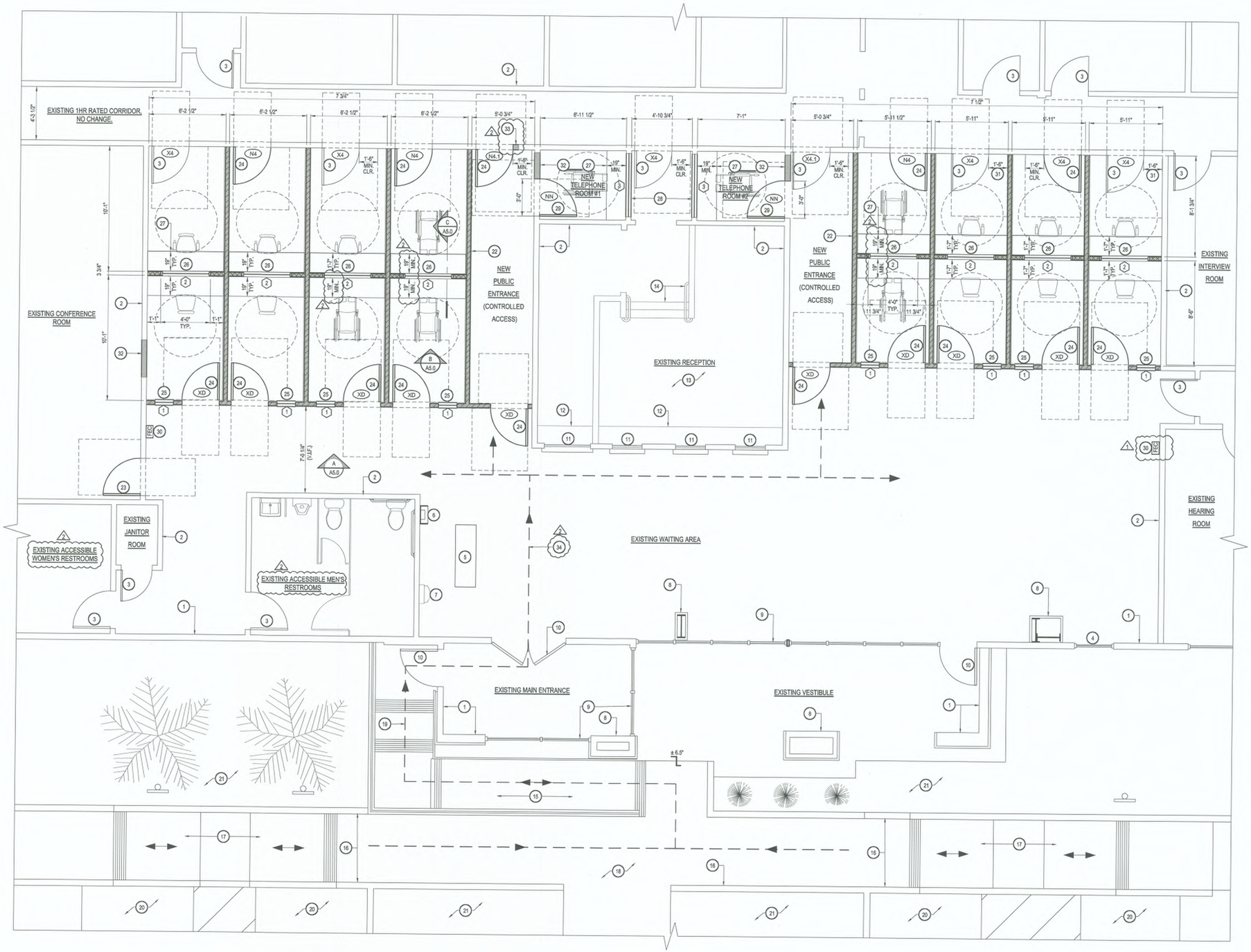

NORTH

NEW INTERVIEW ROOMS LAYOUT — A

1/4"=1'-0"

GENERAL CONTRACTOR NOTES :

1. **FLOOR PLAN DIMENSIONS ARE FROM FACE OF STUD. (F.O.S). G.C. TO ADVISE.**
2. REFER TO SHEET AD1.0 FOR WALL TYPES & ASSEMBLY.
3. REFER TO SHEET A2.1. FOR DOOR, WINDOW SCHEDULES.
4. ALL DOOS CLEARANCES SHALL COMPLY w/ THE REQUIREMENTS OF DETAIL A/AD2.0
5. INSTALL NEW ACCESSIBLE ELECTRICAL OUTLETS AND SWITCHES PER CBC SECTION 11B-308, SEE DETAIL B/AD2.0.

(#) SHEET KEYNOTES

1. EXISTING EXTERIOR WALL, TYP.
2. EXISTING INTERIOR WALL, TYP.
3. EXISTING DOOR.
4. EXISTING WINDOW.
5. EXISTING SECURITY DESK.
6. EXISTING PAY PHONE.
7. EXISTING DRINKING FOUNTAIN / WATER BOTTLE FILLER.
8. EXISTING STRUCTURAL COLUMN.
9. EXISTING STOREFRONT GLAZING (@ 9'-0" A.F.F.).
10. EXISTING STOREFRONT DOOR.
11. EXISTING SERVICE WINDOW.
12. EXISTING COUNTERTOP.
13. EXISTING RAISED FLOOR.
14. EXISTING STAIRS WITH HANDRAILS.
15. EXISTING ACCESSIBLE RAMP.
16. EXISTING CONCRETE CURB.
17. EXISTING CURB-CUT RAMP.
18. EXISTING CONCRETE SIDEWALK.
19. EXISTING ACCESSIBLE PATH OF TRAVEL FROM PUBLIC WAY.
20. EXISTING VAN ACCESSIBLE PARKING.
21. EXISTING LANDSCAPE AREA.
22. NEW INTERIOR WALL PER FLOOR PLAN WALL LEGEND.
23. NEW LOCATION FOR EXISTING CONFERENCE DOOR.
24. NEW LOCATION FOR EXISTING VISION LITE DOOR WITH TIMELY FRAME.
25. NEW LOCATION FOR EXISTING WINDOW (1'-6" X 4'-0" H), WINDOW CENTERED WITHIN A WALL, TYP.
26. NEW SERVICE WINDOW PER WINDOW SCHEDULE. WINDOW CENTERED WITHIN A WALL, TYP.
27. NEW 19" DEEP MINIMUM X 30" MAX. HEIGHT COUNTERTOP IN PLASTIC LAMINATED MATERIAL WITH WHITE SURFACE, TYP. REFER TO DETAIL C/A5.0. FOR REQUIRED ACCESSIBILITY CLEARANCES. (2)
28. NEW WINDOW PER WINDOW SCHEDULE.
29. NEW DOOR PER DOOR SCHEDULE.
30. NEW LOCATION FOR EXISTING FIRE EXTINGUISHER.
31. G.C. TO VERIFY OR PROVIDE THE REQUIRED 18" MIN. PULL SIDE AT EXISTING DOOR.
32. FILL-IN WALL OPENING TO MATCH EXISTING CONDITIONS, SIMILAR TO DETAIL B/AD1.0.
33. FILL-IN 1 HOUR WALL OPENING, SEE DETAIL I/AD1.0 (2)
34. DIRECTION OF EXISTING EGRESS PATH TO INTERVIEW ROOMS AND NEW PUBLIC ENTRANCE LOCATION.

FLOOR PLAN WALL LEGEND

	@ NON RATED WALL	@ 1HR RATED WALL
EXISTING INTERIOR METAL STUD WALL	B AD1.0	I AD1.0
NEW INTERIOR METAL STUD WALL TO MATCH EXISTING, G.C. TO FIELD VERIFY.	B AD1.0	I AD1.0
NEW INTERIOR METAL STUD WALL 3-5/8" STUDS @ 16" O/C, NON- RATED WITH R-13 INSUL & SOUND BOARD	A AD1.0	C AD1.0
NEW INTERIOR METAL STUD WALL 3-5/8" STUDS @ 16" O/C, NON- RATED	B AD1.0	C AD1.0

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REVISIONS

NO.	DESCRIPTION	DATE
1	CLIENT'S REVISION	07-21-25
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LICENSED ARCHITECT
JOHN RUMSEY
C 26613
Exp. 3-31-2026
STATE OF CALIFORNIA

SHEET TITLE

NEW INTERVIEW ROOMS FLOOR PLAN

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SCALE:	AS NOTED
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CHECKED BY:	JR
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SHEET NUMBER:	A2.0

DOOR HARDWARE

H1 - HARDWARE, (USE AT INTERVIEW AND TELEPHONE ROOMS DOORS)

MAKER AND MODEL : MARKS USA -195N26D, PASSAGE HARDWARE. "APPROVED OR EQUAL".

FEATURES.

- THE MARKS USA SURVIVOR LEVERSET "APPROVED OR EQUAL" HAS UNIQUE CLUTCH MECHANISM THAT RADICALLY REDUCES THE WEAR AND ABUSE THAT TYPICAL CYLINDRICAL LEVER SETS ENDURE.
- WHEN LOCKED, THE LEVERS OF THE SURVIVOR DISENGAGE FROM THE RETRACTOR AND OTHER INTERIOR MECHANISMS OF THE LOCK.
- THE LEVERS OF SURVIVOR SWING FREELY, WITHOUT RESISTANCE.
- THIS REDUCES THE AMOUNT OF WEAR ON LOCK COMPONENTS AND ELIMINATES LEVER DROOP.
- THE SUE OF CLUTCH RESULTS IN LONGER LASTING, LOWER MAINTENANCE, EQUIPMENT SOLUTION.
- ADA COMPLIANT.

FEATURES.

ANDI GRADE	GRADE 1
BACKSET-INCHES	2-3/4
DESIGN	FLAT LEVEL WITH RETURN
FINISH	US26D SATIN CHROME
FUNCTION	PASSAGE LATCH
KNOB/LEVER TYPE	LEVER
PRODUCT TYPE	CYLINDRICAL LOCK
SALES CATEGORY	PASSAGE SET
LATCH FACE	SQUARE CORNER 1-1/8 INCH WIDE
PACKAGING	BOXED
STRIKE TYPE	ANSI
THROUGHBOLT PATTERN	2-3/4" C.C. 12 AND 6 O'CLOCK
UL	YES
UNSPSC CODE	46171500

H2 - HARDWARE, (USE AT NEW HALLWAYS / PUBLIC ENTRANCE DOORS)

KEYPAD

MAKER AND MODEL : TRILOGY T2 DL2700 "APPROVED OR EQUAL".
STANDALONE ELECTRONIC KEYLESS ACCESS LOCK

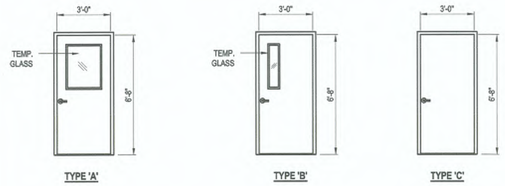
H3 - HARDWARE, (USE AT 1-HOUR RATED CORRIDOR DOORS)

SELF CLOSER - NORTON 8501 "APPROVED OR EQUAL"

[redacted]

DOOR SCHEDULE

SYMBOL	DOOR ELEVATION	LOCATION	EXISTING / NEW	QTY.	SIZE WIDTH	SIZE HEIGHT	DOOR THICKNESS	DOOR MATERIAL	DOOR TYPE	FRAME MATERIAL	FRAME COLOR	HEAD DETAIL	JAMB DETAIL	HARDWARE SET	FIRE RATING	DOOR NOTES
X4	B	CORRIDOR TO INTERVIEW RM.	EXISTING TO REMAIN	6	3'-0"	6'-8"	1 3/4"	WOOD	SOLID CORE	METAL	BROWN	EXISTING			20 MIN.	1-18
X4.1	B	CORRIDOR TO PUBLIC ENTRY	EXISTING TO REMAIN	1	3'-0"	6'-8"	1 3/4"	WOOD	SOLID CORE	METAL		EXISTING			20 MIN.	1-18 - DOOR WITH KEY PAD
XD	A	WAITING TO INTERVIEW RM.	EXISTING TO BE RELOCATED	10	3'-0"	6'-8"	1 3/4"	WOOD	SOLID CORE	METAL		G/AD1.0	H/AD1.0	EXISTING	N/A	1-18 - EXISTING DOOR & FRAME TO BE RELOCATED.
N4	B	CORRIDOR TO INTERVIEW RM.	NEW	4	3'-0"	6'-8"	1 3/4"	WOOD	SOLID CORE	METAL		G/AD1.0	H/AD1.0	H2 & H3	20 MIN.	7-18 - DOOR TO MATCH EXISTING COLOR.
N4.1	B	CORRIDOR TO PUBLIC ENTRY	NEW	4	3'-0"	6'-8"	1 3/4"	WOOD	SOLID CORE	METAL		G/AD1.0	H/AD1.0	H2 & H3	20 MIN.	7-18 - DOOR TO MATCH EXISTING COLOR. DOOR WITH KEY PAD
NN	C	NEW TELEPHONE ROOM.	NEW	2	3'-0"	6'-8"	1 3/4"	WOOD	SOLID CORE	METAL		G/AD1.0	H/AD1.0	H2	N/A	1-18 - DOOR TO MATCH EXISTING COLOR / TEXTURE



DOOR NOTES

1. ALL DOORS TO BE KEYED ALIKE TO MASTER BLDG SYSTEM AS APPLICABLE.
2. A FLOOR OR LANDING NOT MORE THAN 1/2" BELOW THE THRESHOLD IS REQUIRED ON EACH SIDE OF ALL EXTERIOR DOORS.
3. PROVIDE WEATHER STRIP AT ALL EXTERIOR DOORS.
4. EGRESS DOORS SHALL BE READILY FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT. C.B.C. SECTION 1010.2
5. PAINT HOLLOW METAL FRAMES AND DOORS WHERE SCHEDULED WITH 2 FINISH COATS OF HIGH GLOSS ACRYLIC ENAMEL.
6. HOLLOW METAL FRAMES SHALL BE 16 GA. STEEL.
7. SEAL BOTTOM OF WOOD DOORS.
8. ALL DOORS SHALL COMPLY WITH ALL CURRENT ACCESSIBILITY REQUIREMENTS PER LOCAL, STATE, AND FEDERAL JURISDICTIONS. GC SHALL BE FAMILIAR WITH THESE REQUIREMENTS PRIOR TO ORDERING AND INSTALLING DOORS AND HARDWARE.
9. ALL HARDWARE SHALL BE FURNISHED AND INSTALLED BY THE GENERAL CONTRACTOR UNLESS NOTED OTHERWISE.
10. DOOR HARDWARE SHALL BE OF THE LEVER OR PUSH TYPE.

MOUNTED 34" TO 44" ABOVE THE FLOOR AND BE OPERABLE WITH A MAXIMUM EFFORT OF 5 POUNDS FOR EXTERIOR DOORS AND 5 POUNDS FOR INTERIOR DOORS.

11. ALL EXIT DOORS SHALL BE OPENABLE FROM THE INSIDE WITHOUT THE USE OF A KEY, SPECIAL KNOWLEDGE OR EFFORT.
12. SEE HARDWARE SETS FOR REQUIRED FINISHES.
13. INSTALL CLOSERS AS SPECIFIED IN THE HARDWARE SCHEDULE. ADJUST CLOSERS AT EXITING DOORS SUCH THAT SWEEP PERIOD FROM AN OPENING POSITION OF 70 DEGREES, THE DOOR SHALL TAKE AT LEAST 3 SECONDS TO MOVE TO A POINT 3" FROM THE LATCH, MEASURED TO THE LEADING EDGE OF DOOR. MAXIMUM OPENING FORCE OF DOORS SHALL BE 5 LBF.
14. COMPLETE SUBMITTALS ARE REQUIRED FOR APPROVAL PRIOR TO ANY ORDERING OR WORK.
15. ALL DOOR HARDWARE MUST HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING, OR TWISTING OF THE WRIST TO OPERATE. 2
16. THE LOWER 10" OF ALL DOORS COMPLY WITH SEC 11B-404.2.10 AS FOLLOWS :
    16.1. NARROW FRAME DOORS MAY USE A 10" HIGH SMOOTH PANEL ON THE PUSH SIDE OF THE DOOR .
    16.2. TO BE SMOOTH AND UNINTERRUPTED , TO ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST , WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION.
17. SWINGING DOOR AND GATE SURFACES WITHIN 10 INCHES (254 MM) OF THE FINISH FLOOR OR GROUND MEASURED VERTICALLY SHALL HAVE A SMOOTH SURFACE ON THE PUSH SIDE EXTENDING THE FULL WIDTH OF THE DOOR OR GATE. PARTS CREATING HORIZONTAL OR VERTICAL JOINTS IN THESE SURFACES SHALL BE WITHIN 1/16 INCH (1.6 MM) OF THE SAME PLANE AS THE OTHER AND BE FREE OF SHARP OR ABRASIVE EDGES. CAVITIES CREATED BY ADDED KICK PLATES SHALL BE CAPPED.
18. 20-MINUTE FIRE RATED DOOR SHALL BE SMOKE AND DRAFT CONTROL DOOR ASSEMBLIES. DOOR SHALL BE SELF-OR AUTOMATIC-CLOSING IN ACCORDANCE w/ C.B.C SEC 716.2.1.4, 716.2.2.1, 716.2.2.1.1, 716.2.6.1. 2

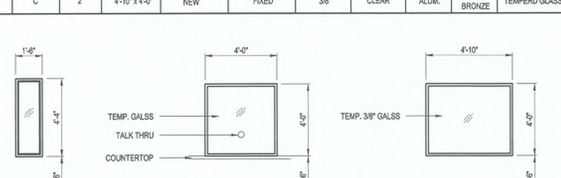
TEMPERED GLASS NOTES

TEMPERED GLASS SHALL BE UTILIZED IN THE FOLLOWING LOCATIONS:

1. GLAZING IN ALL DOORS
2. GLAZING ADJACENT TO A DOOR WHERE THE NEAREST EXPOSED EDGE OF THE GLAZING IS WITHIN 24" OF EITHER VERTICAL EDGE OF THE DOOR IN A CLOSED POSITION **AND** WHERE THE BOTTOM EDGE EXPOSED EDGE OF THE GLAZING IS LESS THAN 60" ABOVE THE WALKING SURFACE
3. ANY OTHER GLAZING THAT **MEETS ALL FOUR** OF THE FOLLOWING CONDITIONS:
   3.1. EXPOSED AREA OF GLAZING EXCEEDS 9 SQUARE FEET
   3.2. EXPOSED BOTTOM EDGE OF GLAZING IS LESS THAN 18" ABOVE THE FINISH FLOOR
   3.3. EXPOSED TOP EDGE OF THE OF THE GLAZING IS GREATER THAN 36" ABOVE THE FINISH FLOOR
   3.4. GLAZING IS LOCATED WITHIN 36" OF A WALKING SURFACE

WINDOW SCHEDULE

SYMBOL	WINDOW ELEVATION	QTY	SIZE	EXISTING / NEW	STYLE	GLAZING THICKNESS	GLAZING TYPE	FRAME MATERIAL	FRAME COLOR	REMARKS
1	A	8	1'-6" x 4'-4"	EXISTING TO BE RELOCATED	FIXED	3/8"	EXISTING			TEMPERED GLASS
2	B	8	4'-0" x 4'-0"	NEW	FIXED	1/4"	CLEAR	ALUM.	DARK BRONZE	TEMPERD GLASS WITH TALK THRU (4" Ø)
3	C	2	4'-10" x 4'-0"	NEW	FIXED	3/8"	CLEAR	ALUM.	DARK BRONZE	TEMPERD GLASS



GENERAL NOTES

1. THESE CONSTRUCTION DOCUMENTS HAVE BEEN SUBMITTED FOR REVIEW WITH THE INTENT OF OBTAINING APPROVAL FOR A "COMPLETE BUILDING" INCLUDING ELECTRICAL, MECHANICAL AND PLUMBING SYSTEMS. ALL EXIT FACILITIES, AND/OR ANY REQUIRED MODIFICATIONS TO ELECTRICAL, MECHANICAL AND PLUMBING SYSTEMS SHALL BE SUBMITTED, REVIEWED AND APPROVED BY THE APPROPRIATE GOVERNMENTAL AGENCIES PRIOR TO OCCUPANCY OF ANY INDIVIDUAL LEASE SPACE.
2. MAINTAIN MINIMUM 44" WIDE AISLES TO ALL EXITS EXCEPT WHERE NOTED OTHERWISE
3. PROVIDE OUTSIDE GAS SHUTOFF VALVE CONSPICUOUSLY MARKED.
4. CONTACT THE SERVING UTILITY COMPANY CUSTOMER PLANNING DEPARTMENT TO VERIFY LOCATION OF ELECTRICAL AND GAS EQUIPMENT.
5. SEE STOREFRONT SPECIFICATION SHEET FOR SAFETY GLAZING REQUIREMENTS AT EXTERIOR DOORS AND WINDOWS
6. WHEN WALLS AND CEILING ARE REQUIRED TO BE FIRE-RESISTIVE OR NON COMBUSTIBLE, THE FINISH MATERIAL SHALL BE APPLIED DIRECTLY AGAINST SUCH FIRE-RESISTIVE OR NON-COMBUSTIBLE CONSTRUCTION OR TO FURRING STRIPS NOT EXCEEDING 1 3/4". THE FURRED SPACE SHALL BE FILLED WITH INORGANIC OR CLASS I MATERIAL OR FIRE STOPPED NOT TO EXCEED 8 FEET IN ANY DIRECTION PER THE CURRENT EDITION OF THE C.B.C.
7. VENTILATION SHALL COMPLY WITH CURRENT EDITION OF THE C.B.C.
8. WATER HEATERS SHALL COMPLY WITH THE GOVERNING PLUMBING CODE FOR THERMAL EXPANSION REQUIREMENTS.
9. VERIFY OR PROVIDE FIRE BLOCKS AND/OR DRAFT STOPS IN ALL EXISTING CONCEALED SPACES AS REQUIRED IN THE CURRENT EDITION OF THE C.B.C.
10. ALL EXTERIOR DOORS SHALL BE WEATHERSTRIPPED.
11. DECORATIVE MATERIALS AND TRIM INSTALLED IN BUILDINGS GOVERNED BY THE SFM SHALL COMPLY WITH THE PROVISIONS OF CBC 806.
12. THERMAL AND ACOUSTICAL INSULATION SHALL COMPLY WITH CBC 719. (CBC 803.8)

EXITING NOTES

1. ANY TIME THE BUILDING IS OCCUPIED, THE MEANS OF EGRESS SHALL BE ILLUMINATED AT AN INTENSITY OF NOT LESS 1 FOOTCANDLE AT THE FLOOR LEVEL.
2. ANY ROOMS OR AREAS THAT REQUIRE MORE THAN ONE EXIT SHALL BE PROVIDED WITH EXIT SIGNS CONFORMING TO CURRENT EDITION OF THE C.B.C. MAIN EXTERIOR EXIT DOORS THAT OBVIOUSLY AND CLEARLY ARE IDENTIFIABLE AS EXIT DOOR NEED NOT HAVE EXIT SIGNS WHEN APPROVED BY THE BUILDING OFFICIAL.
3. WHERE EXIT SIGNS ARE SPECIFIED, ALL SIGNAGE SHALL BE INTERNALLY ILLUMINATED WITH AN INTENSITY OF NOT LESS THAN FIVE FOOTCANDLES FROM EITHER OF TWO ELECTRIC LAMPS. ALL ILLUMINATED EXIT SIGNS SHALL BE PROVIDED WITH A BATTERY BACKUP.
4. EXIT SIGNS SHALL BE LOCATED AS NECESSARY TO CLEARLY INDICATE THE DIRECTION OF EGRESS TRAVEL. NO POINT SHALL BE MORE THAN 100 FEET FROM THE NEAREST VISIBLE SIGN
5. EXIT SIGNS SHALL BE READILY VISIBLE FROM ANY DIRECTION OF APPROACH.
6. ALL DOORS AND GATES SERVING A MEANS OF EGRESS SYSTEM AND BEING USED AS A COMPONENT OF A MEANS OF EGRESS SYSTEM SHALL FULLY MEET THE DOOR REQUIREMENTS OF CURRENT EDITION OF THE C.B.C.
7. ALL EXIT DOORS SHALL OPEN IN THE DIRECTION OF EXIT TRAVEL WHEN SERVING AN OCCUPANT LOAD OF GREATER THAN 50
8. MAINTAIN MINIMUM 44" WIDE AISLES TO ALL EXITS UNLESS NOTED OTHERWISE
9. THE MAXIMUM NUMBER OF REQUIRED EXITS AND THEIR REQUIRED SEPARATION MUST BE MAINTAINED UNTIL EGRESS IS PROVIDED FROM THE STRUCTURE.
10. PER CURRENT EDITION OF THE C.B.C. FLUSH BOLTS OR SURFACE BOLTS ARE PROHIBITED ON ALL EXIT DOORS
11. DOORS IN THE MEANS OF EGRESS SYSTEM TO BE OPENABLE FROM INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT.
12. PROVIDE EMERGENCY LIGHTING WITH A BATTERY BACK IN ALL ROOMS OR AREAS WITH AN OCCUPANT LOAD OF MORE THAN 100 OCCUPANTS.
13. AT EXIT SIGN LOCATIONS, TACTILE EXIT SIGNS ARE REQUIRED AT THE FOLLOWING LOCATIONS:
    13.1. EACH GRADE-LEVEL EXTERIOR EXIT DOOR IDENTIFIED BY A TACTILE EXIT WITH THE WORD "EXIT"
    13.2. EACH EXIT ACCESS DOOR FROM AN INTERIOR ROOM OR AREA TO A CORRIDOR OR HALLWAY THAT IS REQUIRED TO A VISUAL EXIT SIGN, SHALL BE IDENTIFIED BY A TACTILE EXIT SIGN WITH THE WORDS "EXIT ROUTE".
14. THE LEVER OF LEVER ACUATED LATCHES OF LOCKS SHALL BE CURVED WITH A RETURN TO WITHIN 1/2 INCH OF THE DOOR TO PREVENT CATCHING ON THE CLOTHING OF PERSONS DURING EGRESS.

ACCESSIBILITY NOTES

1. HAND ACTIVATED DOOR OPENING HARDWARE TO BE MOUNTED 34" TO 44" ABOVE THE FLOOR AND TO BE OPENABLE WITH A SINGLE EFFORT BY LEVER TYPE HARDWARE.
2. MAXIMUM EFFORT TO OPERATE DOORS SHALL NOT EXCEED 5 POUNDS FOR EXTERIOR DOORS AND INTERIOR DOORS, APPLIED AT RIGHT ANGLES TO HINGED DOORS AND AT THE CENTER PLANE OF SLIDING OR FOLDING DOORS. COMPENSATING DEVICES OR AUTOMATIC DOOR OPERATORS MAY BE UTILIZED. THE MAXIMUM EFFORT TO OPERATE FIRE DOORS MAY BE INCREASED UP TO 15 POUNDS IF ALLOWED BY THE APPROPRIATE ADMINISTRATIVE AUTHORITY.
3. ALL REQUIRED EXIT DOORWAYS SHALL HAVE A MINIMUM 32" CLEAR OPENING WITH THE DOOR AT 90° TO THE CLOSED POSITION.
4. MAXIMUM HEIGHT OF THRESHOLD TO BE 1/2". MAXIMUM VERTICAL CHANGE AT EDGE IS 1/4" WITH A MAXIMUM BEVEL OF 45°.
5. PROVIDE A 12" EQUILATERAL TRIANGLE (VERTEX POINTING UP) ON DOOR TO MEN'S FACILITIES AND A 12" DIA. CIRCLE ON DOOR TO WOMEN'S FACILITIES. THESE SYMBOLS SHOULD BE OF CONTRASTING COLOR, 1/4" THICK AND CENTERED ON THE DOOR 60" HIGH.
6. PROVIDE MINIMUM CLEARANCE OF 18" FOR INTERIOR DOORS AND 24" FOR EXTERIOR DOORS FROM THE STRIKE EDGE
7. HANDICAP ACCESSIBILITY IS REQUIRED FOR AREA, ENTRANCE AND PATH OF TRAVEL
8. AT EVERY PRIMARY PUBLIC ENTRANCE AND AT EVERY MAJOR JUNCTION ALONG OR LEADING TO AN ACCESSIBLE ROUTE OF TRAVEL, THERE SHALL BE A SIGN DISPLAYING THE INTERNATIONAL SYMBOL OF ACCESSIBILITY. SIGNS SHALL INDICATE THE DIRECTION TO ACCESSIBLE BUILDING ENTRANCES AND FACILITIES AND SHALL COMPLY WITH THE REQUIREMENTS IN CURRENT EDITION OF THE C.B.C.
9. WHERE FIXED OR BUILT-IN TABLES, COUNTERS OR SEATS ARE PROVIDED FOR THE PUBLIC, AND IN GENERAL EMPLOYEE AREAS, 5% (BUT NEVER LESS THAN ONE) MUST BE ACCESSIBLE.
10. THE TOPS OF TABLES AND COUNTERS SHALL BE 28" TO 34" FROM THE FLOOR. WHERE A SINGLE COUNTER CONTAINS MORE THAN ONE TRANSACTION STATION SUCH AS A BANK COUNTER WITH MULTIPLE TELLER WINDOW OR A RETAIL SALES COUNTER WITH MULTIPLE CASH REGISTER STATIONS, AT LEAST 5% (BUT NEVER LESS THAN ONE TYPE OF EACH STATION) SHALL BE LOCATED AT A SECTION OF COUNTER THAT IS AT LEAST 36" LONG AND NO MORE THAN 28" TO 34" HIGH.
11. PROVIDE A LEVEL FLOOR OR LANDING ON EACH SIDE OF A DOOR NOT MORE THAN 1/2" LOWER THAN THE THRESHOLD OF THE DOORWAY.
12. LANDINGS SHALL BE PROVIDED AT ALL EXIT DOORS. LANDINGS SHALL HAVE A WIDTH OF NOT LESS THAN THE WIDTH OF THE DOOR SERVED WHICHEVER IS GREATER. DOORS SWINGING OVER LANDINGS SHALL NOT REDUCE THE WITH BY MORE THAN SEVEN INCHES WHEN FULLY OPEN. WHEN SERVING 50 OR MORE, THE DOOR IN ANY POSITION SHALL NOT REDUCE THE REQUIRED WIDTH TO LESS THAN ONE-HALF. LANDINGS SHALL HAVE A LENGTH IN THE DIRECTION OF THE DOOR SWING OF AT LEAST 60 INCHES AND THE LENGTH OPPOSITE THE DIRECTION OF THE DOOR SWING OF 48 INCHES. THE MINIMUM PUSH SIDE CLEARANCE OF 12 INCHES SHALL BE PROVIDED AT THE LANDING IF THE DOOR IS EQUIPPED WITH BOTH A LATCH AND A CLOSER
13. THE BOTTOM 10 INCHES OF ALL DOORS EXCEPT AUTOMATIC AND SLIDING SHALL HAVE A SMOOTH, UNINTERRUPTED SURFACE TO ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP HAZARDOUS CONDITION. WHERE NARROW FRAME DOORS ARE USED, A 10 INCH HIGH SMOOTH PANEL SHALL BE INSTALLED ON THE PUSH SIDE.

FIRE PROTECTION NOTES

1. ALL INTERIOR WALL AND CEILING FINISH MATERIALS SHALL HAVE A MINIMUM CLASS III FIRE SPREAD RATING AS SPECIFIED BY CURRENT EDITION OF THE C.B.C.
2. FIRE DAMPERS OR DOORS SHALL BE PROVIDED WHERE AIR DUCTS PENETRATE FIRE RATED OR AREA SEPARATION WALLS. ALL REQUIRED PERMITS MUST BE OBTAINED FROM THE FIRE PREVENTION BUREAU BEFORE THIS EQUIPMENT IS INSTALLED
3. COMPLETE PLANS AND SPECIFICATIONS FOR FIRE-EXTINGUISHER SYSTEMS, INCLUDING AUTOMATIC SPRINKLERS AND WET AND DRY STANDPIPES; HALON SYSTEMS AND OTHER SPECIAL TYPES OF AUTOMATIC FIRE-EXTINGUISHING SYSTEMS; BASEMENT PIPE INLETS; AND OTHER FIRE-PROTECTIONS SYSTEMS AND APPURTENANCES THERETO SHALL BE SUBMITTED TO FIRE AND LIFE SAFETY FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION (CFC 901.2)
4. FIRE DAMPER ASSEMBLIES, INCLUDING SLEEVES, AND INSTALLATION PROCEDURES SHALL BE APPROVED BY THE BUILDING INSPECTION DEPARTMENT PRIOR TO INSTALLATION.
5. FOAM PLASTICS SHALL NOT BE USED AS INTERIOR FINISH EXCEPT AS PROVIDED IN CURRENT EDITION OF THE C.B.C.
6. ALL FINISH SURFACES OF WALL & CEILING MATERIALS SHALL NOT EXCEED A FLAME SPREAD RATING OF 200 AND A SMOKE DENSITY RATING OF 450 CURRENT EDITION OF THE C.B.C.
7. CONTRACTOR TO PROVIDE SUFFICIENT 2A10BC FIRE EXTINGUISHERS SO THAT AN EXTINGUISHER CAN BE REACHED WITHIN 75 FEET OF NORMAL TRAVEL FROM ANY POINT REACHED WITHIN A SUITE. EXTINGUISHER LOCATIONS MAY BE DETERMINED BY FIELD INVESTIGATION.
8. ALL INTERIOR VENEER SHALL COMPLY WITH CURRENT EDITION OF THE C.B.C.
9. CONTRACTOR SHALL PROVIDE PORTABLE FIRE EXTINGUISHERS PER LOCAL FIRE MARSHALL
10. ALL VALVES CONTROLLING THE WATER SUPPLY FOR AUTOMATIC SPRINKLER SYSTEMS AND WATER-FLOW SWITCHES ON ALL SPRINKLER SYSTEMS SHALL BE ELECTRICALLY MONITORED WHERE THE NUMBER OF SPRINKLERS IS 20 OR MORE. (CFC 903.4)
11. AUTOMATIC SPRINKLER SYSTEMS SERVING SPRINKLERS SHALL BE SUPERVISED BY AN APPROVED CENTRAL, PROPRIETARY, OR REMOTE STATION SERVICE, OR A LOCAL ALARM WHICH WILL GIVE AN AUDIBLE SIGNAL AT CONSTANTLY ATTENDED LOCATION
12. INSTALLATION OF FIRE ALARM SYSTEMS SHALL BE IN ACCORDANCE WITH CFC, SECTION 907
13. FIRE EXTINGUISHING SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH CFC SECTION 903
14. AN APPROVED AUDIBLE SPRINKLER FLOW ALARM (BELL) SHALL BE PROVIDED ON THE EXTERIOR OF THE BUILDING IN AN APPROVED LOCATION. (CFC 903.4.2)

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PROJECT

NEW INTERVIEW ROOMS AT
Imperial County Department of Social Services
2995 S. 4th Street- Suite 105
El Centro, CA 92243
County Project: SR7117SS

REVISIONS

NO.	DESCRIPTION	DATE
2	PLAN CHECK COMMENT	08-01-25

LICENSED ARCHITECT
JOHN RUMSEY
C-26813
Exp. 3-31-2026
STATE OF CALIFORNIA

SHEET TITLE

FLOOR PLAN NOTES AND SCHEDULES

DATE: 04-24-25	SCALE: AS NOTED
DRAWN BY: CB	DATABASE: 25115.DWG
CHECKED BY: JR	SHEET NUMBER: A2.1
PROJECT NO.: 25115	

NORTH

NEW CEILING PLAN

1/4"=1'-0" — A

FIXTURE LEGEND

- 2' x 4' LAY-IN LED FIXTURE @ 8'-0", (REFER TO LIGHTING PLAN) (E)= EXISTING (N)= NEW 2
- SUPPLY AIR GRILL (REFER TO MECHANICAL PLANS)
- RETURN AIR GRILL (REFER TO MECHANICAL PLANS)

CEILING LEGEND

CEILING LEGEND

SYMBOL	DESCRIPTION	HEIGHT
	NEW SUSPENDED CEILING T-BAR GRID SYSTEM. PROVIDE NEW LAY-IN CEILING TILES. ARMSTRONG ACOUSTIC CEILING, **"APPROVED OR EQUAL"** PATTERN: DUNE TEGULAR COLOR: WHITE SIZE: 24" x 48"x .75"	10'-0" A.F.F. E AD1.0

NOTE: REUSE EXISTING R-30 INSULATION OVER NEW CEILING PANELS (FOR SOUND CONTROL), SEE DETAIL C/AD1.0.

SUSPENDED CEILING NOTE

1. PROPOSED SUSPENDED CEILING IS ACCEPTABLE FOR USE IN SEISMIC CATEGORIES D, E &F
2. ALL CEILING SHALL USE A HEAVY DUTY T-BAR GRID SYSTEM
3. THE PERIMETER CLOSURE ANGLE SHALL NOT BE LESS THAN 2 INCHES IN WIDTH OR THE TYPE OF SEISMIC CLIP THAT CAN BE USED AS ALTERNATIVE TO THIS 2" ANGLE METAL REQUIREMENTS.
4. ALL ROOMS WITH SUSPENDED CEILING SYSTEM SHALL HAVE SEISMIC BRACING REGARDLESS OF SIZE.

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2	PLAN CHECK COMMENT	08-04-25

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NEW REFLECTED CEILING PLAN

DATE:	04-24-25	SCALE:	AS NOTED
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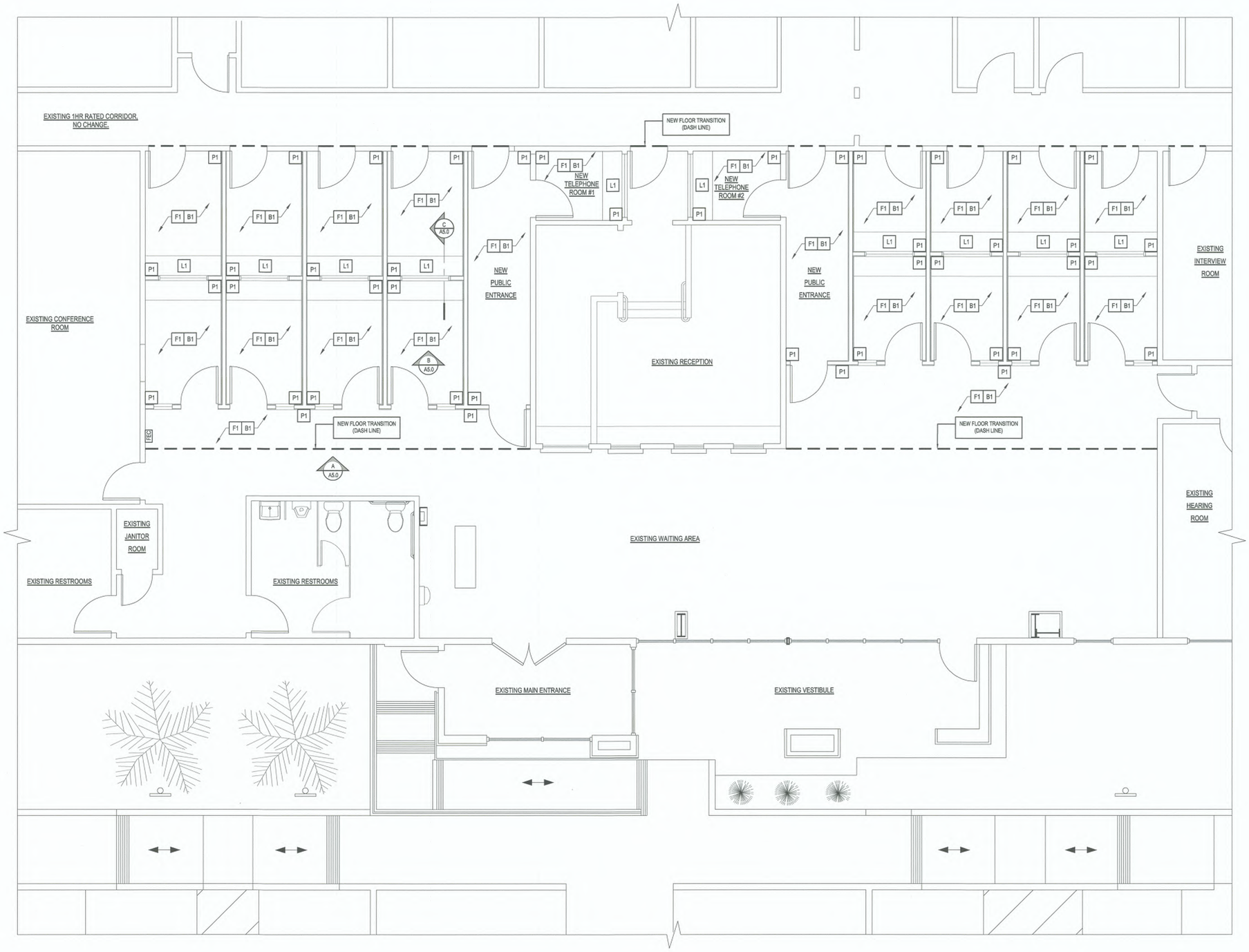

NORTH

1/4"=1'-0"

NEW INTERVIEW ROOMS FINISH PLAN — A

INTERIOR MATERIALS/FINISH LEGEND						
ITEM	SYMBOL	MATERIAL / FINISH	MANUFACTURER	TYPE / STYLE	COLOR	REMARKS
FLOOR	F1	VCT - VINYL FLOOR TILES	ARMSTRONG FLOORING "APPROVED OR EQUAL"	CLASSIC WHITE, STD EXCELON IMPERIAL TEXTURE, 12 IN TILE WD- MFR MODEL: 51911031		G.C. TO MATCH EXISTING VCT COLOR / TEXTURE AND PROVIDE SAMPLE FOR FINAL APPROVAL BEFORE PURCHASING THE MATERIAL.
BASE	B1	4" RUBBER COVE BASE	ARMSTRONG FLOORING "APPROVED OR EQUAL"	COVED RUBBER BASE. MFR MODEL: R41MG018	METAL GREY	G.C. TO MATCH EXISTING BASE COLOR AND PROVIDE SAMPLE FOR FINAL APPROVAL BEFORE PURCHASING THE MATERIAL.
CEILING	C1	24"x 48" CEILING TILE - LAY IN	ARMSTRONG "APPROVED OR EQUAL"	DUNE SECOND LOOK	WHITE	
PAINT	P1	PAINT	SHERWIN WILLIAMS "APPROVED OR EQUAL"		SW 7006 - EXTRA WHITE	G.C. TO TO PROVIDE COLOR SAMPLE FOR FINAL APPROVAL BEFORE PURCHASING THE PAINT.
LAMINATE	L1	PLASTIC LAMINATED WITH WRITE SURFACE (TYP).	WILSONART "APPROVAL OR EQUAL"	THERMALLY FUSED LAMINATE DESIGN :1570	WHITE	G.C. TO TO PROVIDE SAMPLE FOR FINAL APPROVAL BEFORE PURCHASING THE MATERIAL.

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LICENSED ARCHITECT JOHN RUMSEY C-26819 Exp. 3-31-2026 STATE OF CALIFORNIA

SHEET TITLE

NEW INTERVIEW ROOMS FINISH PLAN

DATE: 04-24-25	SCALE: AS NOTED
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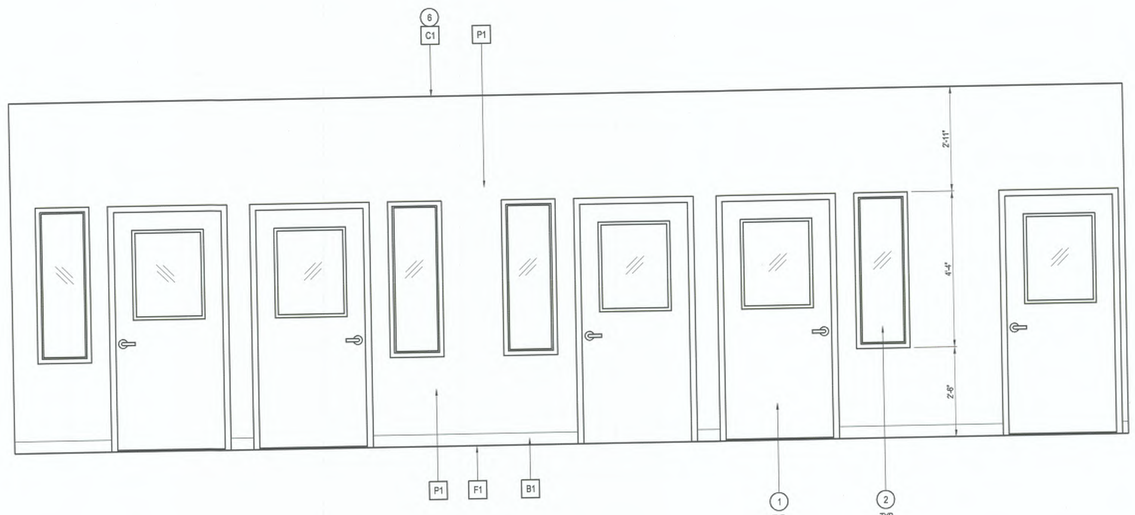
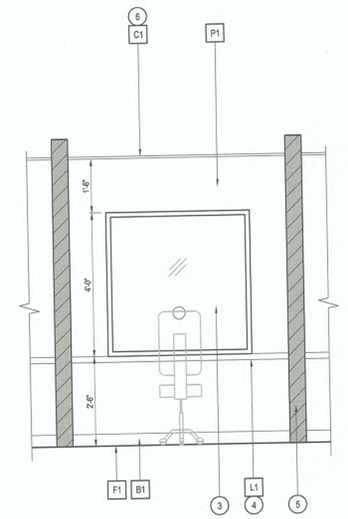


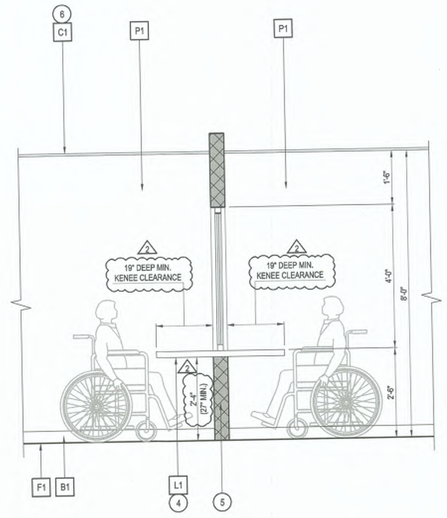
ELEVATION
(WAITING AREA SIDE) A

1/2"=1'-0"



ELEVATION B

1/2"=1'-0"



SECTION THRU ACCESSIBLE
COUNTERS / WORK SURFACES C

1/2"=1'-0"

1	PLAN CHECK COMMENT 08-04-25

SHEET KEYNOTES

1. RELOCATED DOOR.
2. RELOCATED WINDOW.
3. NEW WINDOW PER FLOOR PLAN PLAN.
4. NEW COUNTERTOP PER FLOOR PLAN.
5. NEW WALL PER FLOOR PLAN.
6. NEW CEILING, PER PER PLAN.

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REVISIONS

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1	PLAN CHECK COMMENT	08-04-25

LICENSED ARCHITECT
JOHN RUMSEY
C-26818
Exp. 3-31-2026
STATE OF CALIFORNIA

SHEET TITLE

INTERIOR ELEVATION
AND CROSS SECTION

DATE: 04-24-25	SCALE: AS NOTED
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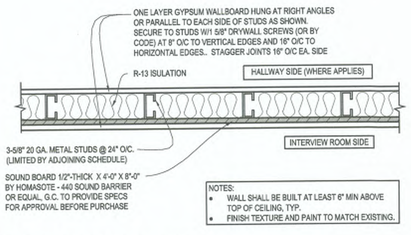
GYPSUM WALL BOARD SHALL BE INSTALLED WITH ALL EDGES OF WALL-BOARD LOCATED OVER FRAMING MEMBERS, EXCEPT FOR JOINTS PERPIN-DICULAR TO THE MAIN FRAMING. THE EDGES AND ENDS OF ADJOINING SHEETS SHALL BE IN MODERATE CONTACT AND THE FASTENERS SHALL HOLD THE PANELS IN FIRM CONTACT WITH THE FRAMING.

GYPSUM WALLBOARD SHALL NOT BE INSTALLED UNTIL ALL EXTERIOR FRAMING IS COVERED.

LIMITING WALL HEIGHT TABLES - COMPOSITE (L/240)
PER SPECIFICATIONS PROVIDED BY THE "STEEL STUD MANUFACTURERS ASSOCIATION", ESR-3064P

STUD SIZE & GAUGE	12" O/C	16" O/C	24" O/C
1 1/4" x 3 5/8" x 20 GA	18'-6"	16'-9"	14'-8"
1 1/4" x 6" x 20 GA	27'-0"	24'-6"	21'-5"

GYP. BRD. REQUIRED BOTH SIDES OF WALL, FULL HEIGHT WITH MIN. ATTACHMENT OF #6 SCREWS AT 12" O/C



NOTES:
- WALL SHALL BE BUILT AT LEAST 6" MIN ABOVE TOP OF CEILING, TYP.
- FINISH TEXTURE AND PAINT TO MATCH EXISTING.

USE TYPE S SCREWS FOR 25 OR 22 GAUGE STEEL FRAMING
USE TYPE S-12 SCREWS FOR 20 GAUGE (OR HEAVIER) STEEL FRAMING

INTERIOR SOUND WALL ASSEMBLY, NON RATED
NO SCALE
USE BETWEEN INTERVIEW ROOMS
A

GYPSUM WALL BOARD SHALL BE INSTALLED WITH ALL EDGES OF WALL-BOARD LOCATED OVER FRAMING MEMBERS, EXCEPT FOR JOINTS PERPIN-DICULAR TO THE MAIN FRAMING. THE EDGES AND ENDS OF ADJOINING SHEETS SHALL BE IN MODERATE CONTACT AND THE FASTENERS SHALL HOLD THE PANELS IN FIRM CONTACT WITH THE FRAMING.

GYPSUM WALLBOARD SHALL NOT BE INSTALLED UNTIL ALL EXTERIOR FRAMING IS COVERED.

LIMITING WALL HEIGHT TABLES - COMPOSITE (L/240)
PER SPECIFICATIONS PROVIDED BY THE "STEEL STUD MANUFACTURERS ASSOCIATION", ESR-3064P

STUD SIZE & GAUGE	12" O/C	16" O/C	24" O/C
1 1/4" x 3 5/8" x 20 GA	18'-6"	16'-9"	14'-8"
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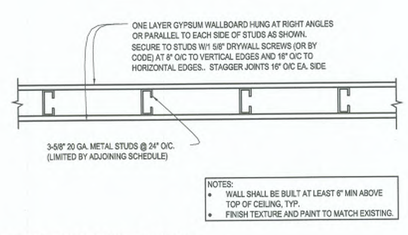
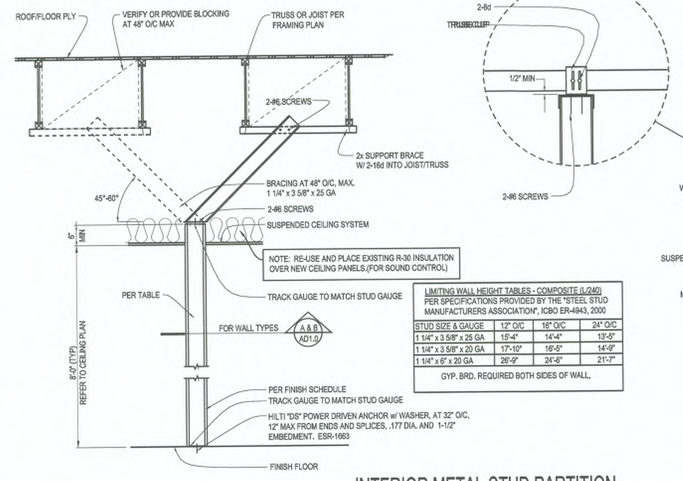
GYP. BRD. REQUIRED BOTH SIDES OF WALL, FULL HEIGHT WITH MIN. ATTACHMENT OF #6 SCREWS AT 12" O/C



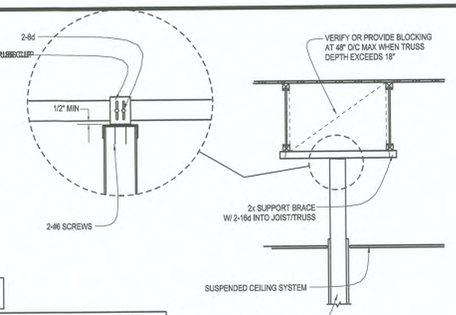
NOTES:
- WALL SHALL BE BUILT AT LEAST 6" MIN ABOVE TOP OF CEILING, TYP.
- FINISH TEXTURE AND PAINT TO MATCH EXISTING.

USE TYPE S SCREWS FOR 25 OR 22 GAUGE STEEL FRAMING
USE TYPE S-12 SCREWS FOR 20 GAUGE (OR HEAVIER) STEEL FRAMING

INTERIOR WALL ASSEMBLY, NON-RATED
NO SCALE
INTERVIEW ROOM DIVIDER
B



INTERIOR METAL STUD PARTITION
3/4"=1'-0"

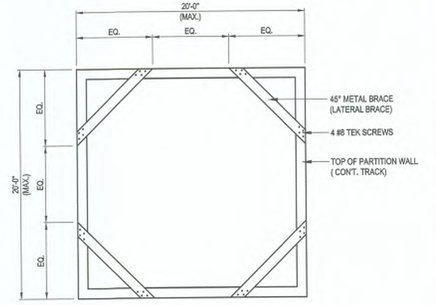


ALTERNATE CONNECTION

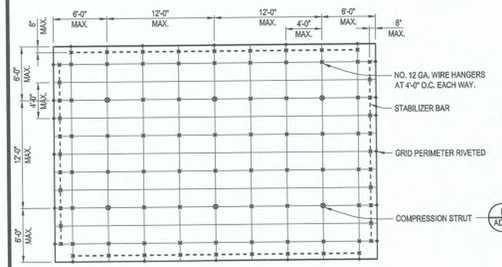
LIMITING WALL HEIGHT TABLES - COMPOSITE (L/240)
PER SPECIFICATIONS PROVIDED BY THE "STEEL STUD MANUFACTURERS ASSOCIATION", ICBO ER-4943, 2000

STUD SIZE & GAUGE	12" O/C	16" O/C	24" O/C
1 1/4" x 3 5/8" x 25 GA	15'-4"	14'-4"	13'-5"
1 1/4" x 3 5/8" x 20 GA	17'-10"	16'-5"	14'-9"
1 1/4" x 6" x 20 GA	26'-9"	24'-6"	21'-7"

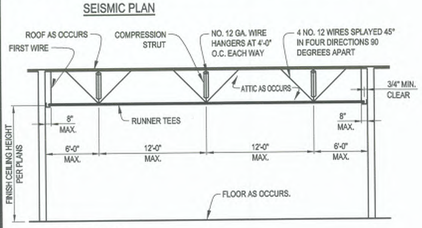
GYP. BRD. REQUIRED BOTH SIDES OF WALL,



TOP OF WALL BRACING (ALTERNATIVE)
N.T.S.
C
D

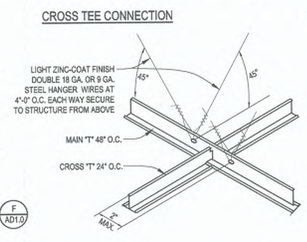


SEISMIC PLAN

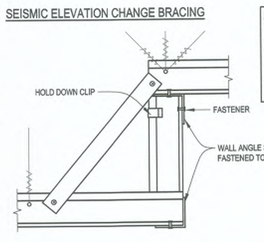


ELEVATION

CROSS TEE CONNECTION



SEISMIC ELEVATION CHANGE BRACING



IMPORTANT NOTE:
NO SPLAY WIRES OR COMPRESSION STRUTS ARE REQUIRED FOR ACCOUSTIC CEILINGS LESS THAN 1,000 SQUARE FEET IN AREA PER A.S.T.M. E 580/E 580M-90b SECTION 5.2.8.1

GENERAL NOTES:
1. SUSPENDED ACOUSTICAL CEILING SYSTEM IN SEISMIC DESIGN CATEGORY D, E OR F SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF ASCE 7-16, CHAPTER 13 AND CBC SECTION 803.13 2
2. SECURE WIRES TO STRUCTURE ABOVE WITH #10 (.190) THREADED SCREW OR EQUIVALENT SCREW EYE AT SOLID MEMBERS.
3. THE SUSPENDED CEILINGS AND LIGHTING SYSTEMS SHALL BE LIMITED TO 6 FEET BELOW THE STRUCTURAL DECK UNLESS THE LATERAL BRACING IS DESIGNED BY A LICENSED ENGINEER OR ARCHITECT.
4. POSITIVE BRACING TO THE STRUCTURE SHALL BE PROVIDED AT CHANGES IN THE CEILING PLANE ELEVATION OR AT DISCONTINUTIES IN THE CEILING GRID SYSTEM.
5. CABLE TRAYS, ELECTRICAL CONDUITS AND PIPING SHALL BE INDEPENDENTLY SUPPORTED AND INDEPENDENTLY BRACED FROM THE STRUCTURE.
6. SPRINKLER HEADS (DROPS) EXCEPT FIRE-RESISTANCE-RATED FLOOR/CEILING OR ROOF/CEILING ASSEMBLIES, SHALL BE DESIGNED TO ALLOW FOR FREE MOVEMENT OF THE SPRINKLER PIPES WITH OVERSIZE SLEEVES, SLIP-ELLS OR ADAPTORS THROUGH THE CEILING TILE, IN ACCORDANCE WITH SECTIONS OF ASCE 7-16 SECTION 13.5.6.2.2 SPRINKLER HEADS PENETRATING FIRE-RESISTANCE-RATED FLOOR/CEILING OR ROOF/CEILING ASSEMBLIES SHALL COMPLY WITH CBC SECTION 714 FOR PENETRATIONS. 1 2
7. PERIMITER MEMBERS: A MINIMUM WALL ANGLE SIZE OF 1" (EAST & WEST) NOT HORIZONTAL LEG SHALL BE USED AT PERIMETER WALLS AND INTERIOR FULL HEIGHT PARTITIONS. THE FIRST CEILING TILE SHALL MAINTAIN 3/4" CLEAR FROM THE FINISH WALL SURFACE. AN EQUIVALENT ALTERNATIVE DETAIL THAT WILL PROVIDE SUFFICIENT MOVEMENT DUE TO ANTICIPATED LATERAL BUILDING DISPLACEMENT MAY BE USED IN LIEU OF THE LONG LEG ANGLE SUBJECT TO THE APPROVAL OF THE SUPERINTENDENT OF BUILDING.
8. SUSPENDED CEILING ASSEMBLIES LOCATED ALONG MEANS OF EGRESS SERVING AN OCCUPANT LOAD OF 30 OR MORE WHERE THE VERTICAL DISTANCE BETWEEN THE CEILING AND THE STRUCTURAL DECK SHALL COMPLY WITH THE FOLLOWING PROVISIONS:
   a. CEILING SUSPENSION SYSTEMS SHALL BE CONNECTED AND BRACED WITH VERTICAL HANGERS ATTACHED DIRECTLY TO THE STRUCTURAL DECK ALONG THE MEANS OF EGRESS SERVING AN OCCUPANT LOAD OF 30 OR MORE AND AT LOBBIES ACCESSORY TO GROUP A OCCUPANCIES. SPACING OF VERTICAL HANGERS SHALL NOT EXCEED 2 FEET ON CENTER ALONG THE ENTIRE LENGTH OF THE SUSPENDED CEILING ASSEMBLY LOCATED ALONG THE MEANS OF EGRESS OR AT THE LOBBY.
   b. ALL LAY-IN PANELS SHALL BE SECURED TO THE SUSPENSION CEILING ASSEMBLY WITH TWO HOLD DOWN CLIPS MINIMUM FOR EACH TILE WITHIN A 4-FOOT RADIUS OF THE EXIT LIGHTS AND EXIT SIGNS.
   c. INDEPENDENT SUPPORTS AND BRACES SHALL BE PROVIDED FOR LIGHT FIXTURES REQUIRED FOR EXIT ILLUMINATION. POWER SUPPLY FOR EXIT ILLUMINATION SHALL COMPLY WITH THE REQUIREMENTS OF CBC SECTION 1008.3 1
   d. SEPARATE SUPPORT FROM THE STRUCTURAL DECK SHALL BE PROVIDED FOR ALL APPENDAGES SUCH AS LIGHT FIXTURES, AIR DIFFUSERS, EXIT SIGNS, AND SIMILAR ELEMENTS.
9. RIGID BRACING MAY BE USED INSTEAD OF DIAGONAL SPLAY WIRES. RIGID BRACING MUST LIMIT CEILING MOVEMENT TO LESS THAN 1/4" AT THE POINT OF ATTACHMENT.
10. CEILINGS WITHOUT RIGID BRACING MUST HAVE 2 INCHES OVERSIZED TRIM RINGS FOR SPRINKLERS AND OTHER PENETRATIONS.
11. IF PARTITIONS ARE ATTACHED TO THE SUSPENDING SYSTEM THEY MUST BE LATERALLY BRACED TO THE BUILDING STRUCTURE.
12. SUSPENDED ACOUSTICAL CEILINGS SHALL COMPLY WITH SECTION WITH CBC SECTION 808.1 AND 808.1.1.1 AND MEET BOTH FLAME SPREAD AND SMOKE DEVELOPED RATINGS

GENERAL STATEMENT:
1. WHERE THE CEILING LOADS DO NOT EXCEED 5 POUNDS PER SQUARE FOOT AND WHERE PARTITIONS ARE NOT CONNECTED TO THE CEILING SYSTEM, THE FOLLOWING BRACING METHOD SHALL BE USED.

INSTALLATION OF COMPONENTS:
1. WIRE HANGERS FOR SUSPENDING CARRYING CHANNELS OR MAIN RUNNERS FROM AN EXISTING STRUCTURE SHALL BE A MINIMUM OF NO. 12 GAGE, GALVANIZED, SOFT ANNEALED, MILD STEEL WIRE. EACH ATTACHMENT SHALL BE WITH A MINIMUM OF THREE TURNS IN 3 INCHES.
2. INTERSECTING WEBS AND FLANGES OF STRUCTURAL MEMBERS SHALL FORM ANGLES BETWEEN THEM OF 90 DEGREES +/- 2 DEGREES.
3. CARRYING CHANNELS AND MAIN RUNNERS SHALL BE INSTALLED SO THAT THEY ARE ALL LEVEL TO WITHIN 1/8 INCH IN 12 FEET. LOCAL KINKS OR BENDS SHALL NOT BE MADE IN HANGER WIRES AS A MEANS OF LEVELING CARRYING CHANNELS.
4. CROSS RUNNERS SHALL BE SUPPORTED BY EITHER MAIN RUNNERS OR BY OTHER CROSS RUNNERS NOT WITHIN 1/02 INCH OF THE REQUIRED CENTER DISTANCES.

LIGHTING FIXTURES:
1. ALL LIGHTING FIXTURES SHALL BE POSITIVELY ATTACHED TO THE SUSPENDED CEILING SYSTEM. THE ATTACHMENT DEVICE SHALL HAVE A CAPACITY OF 100 % OF THE LIGHTING FIXTURE WEIGHT ACTING IN ANY DIRECTION. NO. 12 GAGE HANGERS SHALL BE ATTACHED TO THE GRID MEMBERS WITHIN 3" OF EACH CORNER OF EACH FIXTURE. TANDEM FIXTURES MAY UTILIZE COMMON WIRES.
2. LIGHTING FIXTURE WEIGHING LESS THAN 56 POUNDS SHALL HAVE, IN ADDITION TO THE REQUIREMENTS OUTLINED ABOVE, TWO NO. 12 GAGE HANGERS CONNECTED FROM THE FIXTURE HOUSING TO THE STRUCTURE ABOVE. THESE WIRES MAY BE SLACK.
3. LIGHTING FIXTURES WEIGHING 56 POUNDS OR MORE SHALL BE SUPPORTED DIRECTLY FROM THE STRUCTURE ABOVE BY APPROVED HANGERS.
4. PENDANT-HUNG LIGHTING FIXTURES SHALL BE SUPPORTED DIRECTLY FROM THE STRUCTURE ABOVE USING NO. 9 GAGE WIRE OR APPROVED ALTERNATE SUPPORT WITHOUT USING THE CEILING SUSPENSION SYSTEM FOR DIRECT SUPPORT.

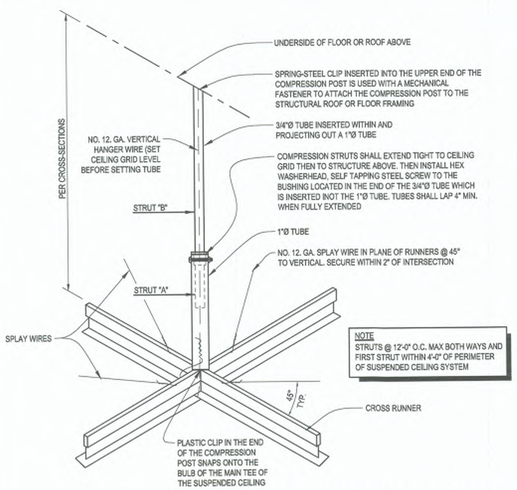
MECHANICAL:
1. CEILING-MOUNTED AIR TERMINALS OR SERVICES WEIGHTING LESS THAN 20 POUNDS SHALL BE POSITIVELY ATTACHED TO THE CEILING SUSPENSION MAIN RUNNERS OR TO CROSS RUNNERS WITH THE SAME CARRYING CAPACITY AS THE MAIN RUNNERS.
2. TERMINALS OR SERVICES WEIGHTING 20 POUNDS, BUT NOT MORE THAN 56 POUNDS, IN ADDITION TO THE ABOVE, SHALL HAVE TWO No. 12 GA. HANGERS CONNECTED FROM THE TERMINAL OR SERVICE TO THE CEILING SYSTEM HANGERS OR TO THE STRUCTURE ABOVE.
3. TERMINALS OR SERVICES WEIGHING 56 POUNDS OR MORE SHALL BE SUPPORTED DIRECTLY FROM THE STRUCTURE ABOVE BY APPROVED HANGERS.

STRUCTURAL NOTES:
1. VERTICAL HANGERS: SUSPENSION WIRES SHALL NOT BE SMALLER THAN NO. 12 GAGE SPACED AT 4'-0" ON CENTER OR NO. 10 GAGE AT 5'-0" ON CENTER ALONG EACH MAIN RUNNER UNLESS CALCULATIONS JUSTIFYING THE INCREASED SPACING ARE PROVIDED. EACH VERTICAL WIRE SHALL BE ATTACHED TO THE CEILING SUSPENSION MEMBER AND TO THE SUPPORT ABOVE WITH A MINIMUM OF THREE TURNS. ANY CONNECTION DEVICE AT THE SUPPORTING CONSTRUCTION SHALL BE CAPABLE OF CARRYING NOT LESS THAN 100 POUNDS. SUSPENSION WIRES SHALL NOT HANG MORE THAN 1 IN 6 OUT OF PLUMB UNLESS COUNTER SLOPING WIRES ARE PROVIDED. WIRES SHALL NOT ATTACH TO OR BEND AROUND INTERFERING MATERIAL OR EQUIPMENT. A TRAPEZE OR EQUIVALENT DEVICE SHALL BE USED WHERE OBSTRUCTIONS PRECLUDE DIRECT SUSPENSION. TRAPEZE SUSPENSIONS SHALL BE A MINIMUM OF BACK TO BACK 1 1-1/4" COLD - ROLLED CHANNELS FOR SPANS EXCEEDING 4ft".
2. PERIMETER HANGERS: THE TERMINAL ENDS OF EACH CROSS RUNNER AND MAIN RUNNER SHALL BE SUPPORTED INDEPENDENTLY A MAXIMUM OF 8" FROM EACH WALL OR CEILING DISCONTINUITY WITH NO. 12 GAGE WIRE OR APPROVED WALL SUPPORT.
3. LATERAL FORCE BRACING: HORIZONTAL RESTRAINTS SHALL BE EFFECTED BY FOUR NO. 12 GAGE WIRES SECURED TO THE MAIN RUNNER WITHIN TWO INCHES OF THE CROSS RUNNER INTERSECTION AND SPLAYED 90 DEGREES FROM EACH OTHER AT AN ANGLE NOT EXCEEDING 45 DEGREES FROM THE PLANE OF THE CEILING. A STRUT FASTEN TO THE MAIN RUNNER SHALL BE EXTENDED TO AND FASTENED TO THE STRUCTURAL MEMBERS SUPPORTING THE ROOF OR FLOOR ABOVE. THE STRUT SHALL BE ADEQUATE TO RESIST THE VERTICAL COMPONENT INDUCTED BY THE BRACING WIRES. THESE HORIZONTAL RESTRAINT POINTS SHALL BE PLACED 12 FEET ON CENTER IN BOTH DIRECTIONS WITH THE FIRST POINT WITHIN 4'-0" FROM EACH WALL. ATTACHMENT OF THE RESTRAINT WIRES TO THE STRUCTURE SHALL BE ADEQUATE FOR THE LOAD IMPOSED. LATERAL FORCE BRACING MEMBERS SHALL BE SPACED A MINIMUM OF 6 INCHES FROM ALL HORIZONTAL PIPING OR DUCT WORK THAT IS NOT PROVIDED WITH BRACING RESTRAINS FOR HORIZONTAL FORCE. BRACING WIRES SHALL BE ATTACHED TO THE GRID AND TO THE STRUCTURE IN SUCH A MANNER THAT THEY CAN SUPPORT A DESIGN LOAD OF NOT LESS THAN 200 POUNDS OR THE ACTUAL DESIGN LOAD, WHICHEVER IS GREATER, WITH A SAFETY FACTOR OF 2.
4. PERIMETER MEMBERS: UNLESS PERIMETER MEMBERS ARE A STRUCTURAL PART OF THE APPROVED SYSTEM, WALL ANGLES OR CHANNELS SHALL BE CONSIDERED AS AESTHETIC CLOSURES AND WITH NO STRUCTURAL VALUE. FOR TILE CEILINGS, ENDS OF MAIN RUNNERS AND CROSS MEMBERS SHALL BE TIED TOGETHER TO PREVENT THEIR SPREADING.
5. MAIN RUNNERS AND CROSS RUNNERS MAY BE ATTACHED TO THE PERIMETER MEMBER AT TWO ADJACENT WALLS WITH CLEARANCE BETWEEN THE WALL AND THE RUNNERS MAINTAINED AT THE TWO OTHER WALLS.
6. SUSPENDED ACOUSTICAL CEILING SYSTEM IN SEISMIC DESIGN CATEGORY D, E OR F SHALL COMPLY WITH ASCE 7-05, SECTION 13.5.6.2.1 AS FOLLOWS:
   6.1 ALL CEILINGS SHALL USE A HEAVY DUTY T-BAR GRID SYSTEM
   6.2 CEILING AREAS OVER 2500 SQ.FT. MUST HAVE SEISMIC SEPARATION JOINTS OR FULL HEIGHT PARTITIONS THAT BREAK THE CEILING INTO AREAS NOT EXCEEDING 2500 SQ.FT.

SUSPENDED CEILING SPECS:
1. 24" x 48" DONN DX SUSPENDED CEILING SYSTEM BY USG CORP., OR EQUAL. ICC #ESR-1222
2. WHITE #769-A CORTEGA CEILING TILE BY ARMSTRONG, OR EQUAL, U.N.O.

SUSPENDED CEILING SYSTEM, DETAILS AND SPECIFICATIONS
E

NO SCALE



NOTE
STRUTS @ 12'-0" O.C. MAX BOTH WAYS AND FIRST STRUT WITHIN 4'-0" OF PERIMETER OF SUSPENDED CEILING SYSTEM

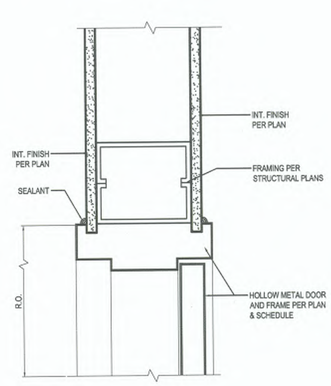
TELESCOPING SEISMIC COMPRESSION STRUT DETAIL
F

DONN COMPRESSION STRUT TABLE — ICC ESR-1222 EXPIRES 12/01/13

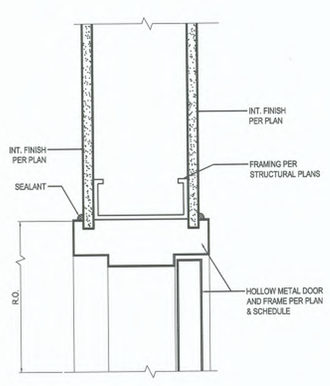
TYPE *	TUBE LENGTH		OVERALL COMPRESSION STRUT LENGTH	
	1"Ø (STRUT "A")	3/4"Ø (STRUT "B")	MINIMUM	MAXIMUM
VSA 18/30	17"	17"	18"	30"
VSA 30/48	24"	30"	30"	48"
VSA 48/84	48"	40"	48"	84"
VSA 84/102	72"	40"	84"	102"
VSA 104/120	90"	40"	104"	120"
VSA 120/144	104"	50"	120"	144"

DESCRIPTION & INSTALLATION: (ICC ESR-1222, EXPIRES 12/01/13)
3/4"Ø TUBE INSERTED WITHIN AND PROJECTING OUT A 1"Ø TUBE; TWO PLASTIC BUSHINGS; AND A SPRING-STEEL TENSION RING FASTENED WITH A No. 10 BY 1" LONG, HEX WASHERHEAD, SELF TAPPING STEEL SCREW TO THE BUSHING LOCATED IN THE END OF THE 3/4"Ø TUBE WHICH IS INSERTED INTO THE 1"Ø TUBE. THE TUBES ARE FORMED FROM AISI 1010 STEEL HAVING A MINIMUM YIELD STRENGHT OF 36 KSI. A SPRING-STEEL CLIP INSERTED INTO THE UPPER END OF THE COMPRESSION POST IS USED WITH A MECHANICAL FASTENER TO ATTACH THE COMPRESSION POST TO THE STRUCTURAL ROOF OR FLOOR FRAMING. A PLASTIC CLIP IN THE OPPOSITE END OF THE COMPRESSION POST SNAPS ONTO THE BULB OF THE MAIN TEE OF THE SUSPENDED CEILING. THE COMPRESSION POST IS ALSO CONNECTED TO THE SUSPENDED CEILING MEMBERS BY WIRE TYING THE POST TO THE HANGER WIRES OR FASTENING THE PLASTIC END CLIP TO THE MAIN TEE WITH A No. 10 BY 1" LONG BOLT AND HEX NUT.

NOTES:
1. COMPRESSION STRUT BE FASTENED TO THE MAIN RUNNER AND BE EXTENDED TO AND FASTENED TO THE STRUCTURAL MEMBERS SUPPORTING THE ROOF OR FLOOR ABOVE
2. THE STRUT SHALL BE VERTICAL AND NOT HANG MORE THAN 1 IN 6 OUT OF PLUMB
3. ALL STRUT MEETING THE SPECIFICATIONS OF THIS TABLE WILL BE PRESUMED TO MEET THE REQUIREMENTS OF THE CODE. OTHER DESIGN CONFIGURATIONS MUST CONFORM TO THE DESIGN REQUIREMENTS OF THE CURRENT EDITION OF THE C.B.C.
4. EACH STRUT MUST BE ACCOMPANIED BY A TENSION WIRE LOCATED ON THE INSIDE OF IMMEDIATELY TO (WITHIN 1") AND PARALLEL TO THE STRUT
5. PRE MANUFACTURED STRUTS ARE AVAILABLE AND MAY BE INSTALLED ACCORDING TO THEIR LISTING AND/OR INSTALLATION INSTRUCTIONS



HEAD AT INTERIOR DOOR (METAL STUD)
3"=1'-0"
G



JAMB DIMENSIONS SHOULD BE VERIFIED WITH JAMB MANUFACTURER

JAMB AT INTERIOR DOOR (METAL STUD)
3"=1'-0"
H

ONE LAYER 5/8" TYPE 'X' GYPSUM WALLBOARD OR VENEER BASE APPLIED AT RIGHT ANGLES OR PARALLEL TO EACH SIDE OF 3 5/8" METAL STUDS AT 24" O/C WITH 1" TYPE S DRYWALL SCREWS AT 8" O/C TO VERTICAL EDGES AND 12" O/C TO TOP AND BOTTOM RUNNERS AND INTERMEDIATE STUDS. STAGGER ALL VERTICAL AND HORIZONTAL JOINTS 24" O/C EACH SIDE AND OPPOSITE SIDES (GA FILE NO WP1115) 1

GYPSUM WALLBOARD SHALL NOT BE INSTALLED UNTIL ALL EXTERIOR FRAMING IS COVERED.

LIMITING WALL HEIGHT TABLES - COMPOSITE (L/240)
PER SPECIFICATIONS PROVIDED BY THE "STEEL STUD MANUFACTURERS ASSOCIATION", ICBO ESR-1903 NOV 2008

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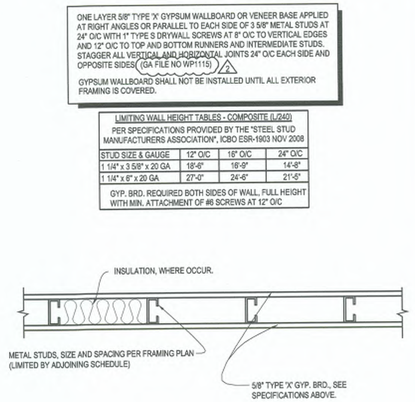
GYP. BRD. REQUIRED BOTH SIDES OF WALL, FULL HEIGHT WITH MIN. ATTACHMENT OF #6 SCREWS AT 12" O/C



NOTE
USE TYPE S SCREWS FOR 25 OR 22 GAUGE STEEL FRAMING
USE TYPE S-12 SCREWS FOR 20 GAUGE (OR HEAVIER) STEEL FRAMING 1

INTERIOR WALL ASSEMBLY, 1-HOUR RATED
NO SCALE
I

NO SCALE

MPA ARCHITECTS INC.
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155 S 11TH Street
El Centro, CA 92243
P: (442) 265-1810
E: raulcarrasco@co.imperial.ca.us
Contact: Raul Carrasco

PROJECT
NEW INTERVIEW ROOMS AT
Imperial County Department of Social Services
2995 S. 4th Street- Suite 105
El Centro, CA 92243
County Project: SR7117SS

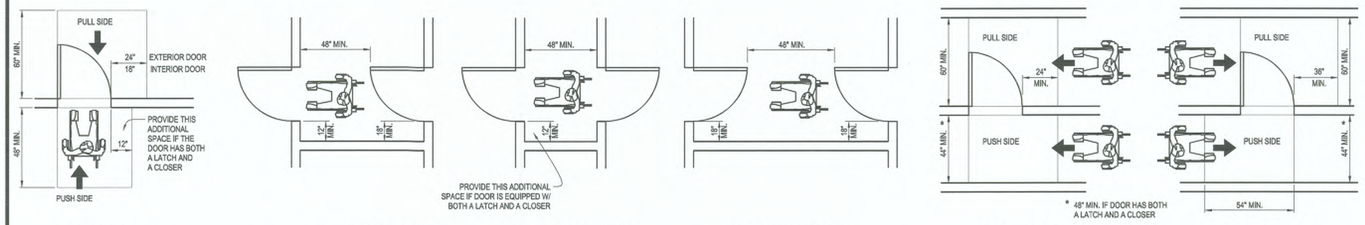
REVISIONS

NO.	DESCRIPTION	DATE
1	PLAN CHECK COMMENT	08-01-25

LICENSED ARCHITECT JOHN RUMSEY C-26813 Exp. 3-31-2026 STATE OF CALIFORNIA

SHEET TITLE
ARCHITECTURAL DETAILS

DATE:	04-24-25
SCALE:	AS NOTED
DRAWN BY:	CB
DATABASE:	25115.DWG
CHECKED BY:	JR
SHEET NUMBER:	AD1.0
PROJECT NO.	25115



FRONT APPROACH | TWO HINGED DOORS IN SERIES | TWO HINGED DOORS IN SERIES | DOORS AT OPPOSITE WALLS | LATCH APPROACH | HINGE APPROACH

1. HAND ACTIVATED DOOR OPENING HARDWARE SHALL BE CENTERED BETWEEN 30 INCHES AND 44 INCHES ABOVE THE FLOOR. LATCHING AND LOCKING DOORS THAT ARE HAND ACTIVATED AND WHICH ARE IN A PATH OF TRAVEL, SHALL BE OPERATED WITH A SINGLE EFFORT BY LEVER TYPE HARDWARE, BY PANIC BARS, PUSH-PULL ACTIVATING BARS OR OTHER HARDWARE DESIGNED TO PROVIDE PASSAGE WITHOUT REQUIRING THE ABILITY TO GRASP THE OPENING HARDWARE. LOCKED EXIT DOORS SHALL OPERATE SIMILARLY, EXCEPT THAT WHEN BOLT AND UNLATCHING OPERATION IS KEY OPERATED FROM CORRIDOR OR EXTERIOR SIDE OF UNIT DOOR, LARGE BOW KEYS (2 INCH) FULL BOW OR 1 1/4 INCH (HALF BOW) SHALL BE PROVIDED IN LIEU OF LEVER TYPE HARDWARE ON THE CORRIDOR SIDE. SEPARATE DEAD LOCK ACTIVATION ON ROOM SIDE OF CORRIDOR DOORS IN HOTELS OR MOTELS SHALL HAVE LEVER HANDLE OR LARGE THUMB TURN IN AN EASILY REACHED LOCATION.
2. EVERY REQUIRED EXIT DOORWAY SHALL BE OF A SIZE AS TO PERMIT THE INSTALLATION OF A DOOR NOT LESS THAN 3 FEET IN WIDTH AND NOT LESS THAN 6 FEET, 8 INCHES IN HEIGHT. WHEN INSTALLED IN EXIT DOORWAYS, EXIT DOORS SHALL BE CAPABLE OF OPENING AT LEAST 90 DEGREES AND SHALL BE SO MOUNTED THAT THE CLEAR WIDTH OF THE EXIT WAY IS NOT LESS THAN 32 INCHES.
3. FOR HINGED DOORS, THE OPENING WIDTH SHALL BE MEASURED WITH THE DOOR POSITIONED AT AN ANGLE OF 90 DEGREES FROM ITS CLOSED POSITION. AT LEAST ONE OF A PAIR OF DOORS SHALL MEET THIS OPENING WIDTH REQUIREMENT. REVOLVING DOORS SHALL NOT BE USED AS A REQUIRED ENTRANCE FOR THE PHYSICALLY HANDICAPPED.
4. MAXIMUM EFFORT TO OPERATE DOORS SHALL NOT EXCEED 5 POUNDS FOR EXTERIOR AND INTERIOR DOORS, SUCH PULL OR PUSH EFFORT BEING APPLIED AT RIGHT ANGLE TO HINGED DOORS AND AT THE CENTER PLANE OF SLIDING OR FOLDING DOORS. COMPENSATING DEVICES OR AUTOMATIC DOOR OPERATORS MAY BE UTILIZED TO MEET THE ABOVE STANDARDS. WHEN FIRE DOORS ARE REQUIRED, THE MAXIMUM EFFORT TO OPERATE THE DOOR MAY BE INCREASED NOT TO EXCEED 15 POUNDS.
5. THE BOTTOM 10 INCHES OF ALL DOORS EXCEPT AUTOMATIC AND SLIDING SHALL HAVE A SMOOTH UNINTERRUPTED SURFACE TO ALLOW THE DOOR TO BE OPENED UNINTERRUPTED SURFACE TO ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION. WHERE NARROW FRAME DOORS ARE USED, A 10 INCH HIGH SMOOTH PANEL SHALL BE INSTALLED ON THE PUSH SIDE OF THE DOOR.
6. THRESHOLDS SHALL NOT EXCEED 1/2 INCH IN HEIGHT, WITH 1/4 INCH MAXIMUM VERTICAL CHANGE AT EDGE. MAXIMUM BEVEL ALLOWED IS 45 DEGREES.

A.D.A. DOOR CLEARANCE REQUIREMENTS

NO SCALE

A

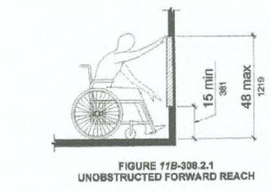


FIGURE 11B-308.2.1
UNOBSTRUCTED FORWARD REACH

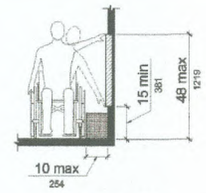


FIGURE 11B-308.3.1
UNOBSTRUCTED SIDE REACH

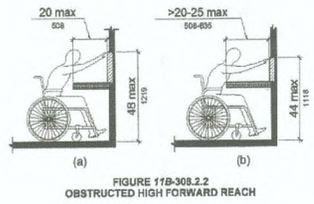


FIGURE 11B-308.2.2
OBSTRUCTED HIGH FORWARD REACH

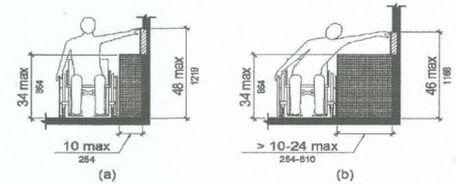


FIGURE 11B-308.3.2
OBSTRUCTED HIGH SIDE REACH

REACH RANGE REQUIREMENTS PER CBC SECTIONS 11B-308 ⚠1
(@ NEW ELECTRICAL OTLETS AND SWITCHES)

B

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PROJECT
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2995 S. 4th Street- Suite 105
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County Project: SR7117SS

REVISIONS

NO.	DESCRIPTION	DATE
⚠1	PLAN CHECK COMMENT	09-04-25

LICENSED ARCHITECT
JOHN RUMSEY
C-26813
Exp. 3-31-2026
STATE OF CALIFORNIA

SHEET TITLE
ARCHITECTURAL DETAILS

DATE:	04-24-25	SCALE:	AS NOTED
DRAWN BY:	CB	DATABASE:	25115.DWG
CHECKED BY:	JR	SHEET NUMBER:	AD2.0
PROJECT NO:	25115		

MECHANICAL SPECIFICATIONS

PART 1 - GENERAL

1.1 SCOPE:
H.V.A.C. WORK CONSISTS OF ALL LABOR, MATERIALS, EQUIPMENT AND SERVICES NECESSARY FOR AND INCIDENTAL TO THE EXECUTION AND COMPLETION OF THE SYSTEMS AS INDICATED ON THESE DRAWINGS AS REQUIRED FOR A COMPLETE H.V.A.C SYSTEM.

1.2 H.V.A.C. SYSTEMS SHALL INCLUDE:
A. DUCTWORK, DAMPERS, DIFFUSERS, REGISTERS, AND GRILLES
B. HANGERS, BRACING, CURBS, AND SUPPORTS OF DUCTWORK AND EQUIPMENT
C. INSULATION OF DUCTS
D. FIRE DAMPERS, FIRE-SMOKE DAMPERS, AND DUCT SMOKE DETECTORS
E. STARTUP, TEST, AND BALANCE OF ALL H.V.A.C. SYSTEMS
F. ALL OTHER H.V.A.C. ITEMS AND CONTROL DEVICES AS INDICATED ON THE DRAWINGS OR IN THESE SPECIFICATIONS PLUS ALL OTHER H.V.A.C. ITEMS AND CONTROL DEVICES NEEDED FOR A COMPLETE AND PROPER INSTALLATION

1.3 RELATED WORK FURNISHED BY OTHERS:
N/A

1.4 DRAWINGS / COORDINATION / RESPONSIBILITY:
A. THESE DESIGN DRAWINGS ARE DIAGRAMMATIC AND DO NOT NECESSARILY COVER ALL ITEMS. THEY WERE CREATED FOR THE PURPOSE OF OBTAINING A BUILDING PERMIT IN THE PLAN REVIEW PROCESS AND TO GIVE THE MECHANICAL CONTRACTOR MECHANICAL DESIGN INTENT. IT SHALL BE THE CONTRACTOR'S COMPLETE RESPONSIBILITY TO PROVIDE DETAILED INSTALLATION DRAWINGS IN ADDITION TO THESE DESIGN DRAWINGS TO INSURE A COMPLETE AND SATISFACTORY OPERATING SYSTEM. THE CONTRACTOR MUST AVOID OBSTRUCTIONS, PRESERVE REQUIRED CLEARANCES, DETERMINE EXACT DUCT / PIPING / EQUIPMENT REQUIREMENTS GOVERNED BY ACTUAL JOB CONDITIONS. CONFLICTS THAT NECESSITATE DEPARTURES FROM THE PROPOSED DESIGN SCHEME MUST BE BROUGHT TO THE ARCHITECT'S ATTENTION AND RESOLVED PRIOR TO PROCEEDING WITH THE INSTALLATION. FOLLOW MANUFACTURERS DIRECTION WHERE THEY COVER POINTS NOT SPECIFICALLY INDICATED. HOWEVER, IF THEY ARE IN CONFLICT WITH THESE DRAWINGS AND SPECIFICATIONS, OBTAIN CLARIFICATION FROM THE ARCHITECT BEFORE PROCEEDING.
B. THE TERM "PRIOR TO START" OF WORK SHALL INCLUDE PRIOR TO ORDERING OR FABRICATING ANY DUCTWORK, EQUIPMENT, OR CONTROLS.
C. BEFORE SUBMITTING BID THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THESE MECHANICAL PLANS, THE ARCHITECTURAL PLANS, JOBSITE CONDITIONS, AND DIFFICULTIES THAT WILL BE ENCOUNTERED IN THE INSTALLATION OF MECHANICAL SYSTEMS DUE TO TIGHT CLEARANCES AND CONDITIONS.

1.5 SUBSTITUTIONS:
WHEN SUBSTITUTIONS OF MECHANICAL EQUIPMENT OR DEVICES ARE MADE THE CONTRACTOR SHALL FULLY COORDINATE THESE CHANGES WITH OTHER TRADES.

1.6 CODES / STANDARDS/ PERMITS:
A. ALL WORK AND MATERIALS SHALL BE IN FULL ACCORDANCE WITH THE LATEST EDITIONS OF THE CALIFORNIA ADMINISTRATIVE CODE AND TITLES, THE RULES AND REGULATIONS OF THE STATE FIRE MARSHALL, THE 2022 BUILDING ENERGY EFFICIENCY STDS, THE 2022 CALIFORNIA BLDG. CODE, THE 2022 CALIFORNIA MECHANICAL CODE, THE 2022 CALIFORNIA GREEN BLDG. CODE, AND OTHER APPLICABLE LOCAL, STATE AND FEDERAL CODES HAVING JURISDICTION. NOTHING IN THE PLANS OR SPECIFICATIONS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES. CONTRACTOR TO OBTAIN ALL NECESSARY PERMITS AND INSPECTIONS AND PAY RELATED FEES.
B. BIDDING CONTRACTORS SHALL HAVE A WORKING KNOWLEDGE OF LOCAL CODES AND ORDINANCES AND SHALL INCLUDE IN THEIR BIDS THE COST FOR ALL WORK INSTALLED IN STRICT ACCORDANCE WITH THESE GOVERNING CODES. THE CONTRACTOR SHALL ALERT ARCHITECT OR ENGINEER OF ANY APPARENT DISCREPANCIES BETWEEN GOVERNING CODES AND DESIGN INTENT.

1.7 GUARANTEE:
IN ADDITION TO THE GUARANTEES REQUIRED ELSEWHERE ALL WORK, MATERIALS, AND EQUIPMENT PROVIDED UNDER THE MECHANICAL DRAWINGS AND SPECIFICATIONS SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE OF THE WORK BY THE OWNER OR GENERAL CONTRACTOR. CONTRACTOR SHALL FURNISH ALL NECESSARY LABOR AND MATERIALS TO REPAIR OR REPLACE DEFECTIVE ITEMS AT NO COST TO THE OWNER.

1.8 SUBMITTALS:
A. THE CONTRACTOR SHALL SUBMIT WITHIN 15 DAYS OF AWARD OF CONTRACT A COMPLETE SUBMITTAL OF MATERIALS AND EQUIPMENT TO BE USED FOR APPROVAL BY THE ARCHITECT AND MECHANICAL DESIGNER.
B. ALL ITEMS SHALL BE PROPERLY IDENTIFIED AND ALL MECHANICAL EQUIPMENT SHALL BE IDENTIFIED WITH EQUIPMENT NUMBERS AS SHOWN ON THE PLANS.
C. SUBMITTAL OF EQUIPMENT THAT DEVIATES FROM SPECIFIED EQUIPMENT:
1. ANY DEVIATION FROM THE ITEMS SPECIFIED SHALL BE CLEARLY IDENTIFIED AS SUCH.
2. THE CONTRACTOR IS RESPONSIBLE FOR DEMONSTRATING MATERIAL AND EQUIPMENT EQUIVALENCY INCLUDING PERFORMANCE, ENERGY EFFICIENCIES, ELECTRICAL REQUIREMENTS, EXPANSION CHARACTERISTICS, SOUND LEVELS, OPERATING WEIGHTS AND DIMENSIONS, AND CLEARANCE REQUIREMENTS. SUBMITTALS NOT INCORPORATING THIS DATA ITEMIZED AND COMPARED TO THE SPECIFIED AND SCHEDULED MATERIAL AND EQUIPMENT WILL NOT BE ACCEPTED.
D. UNLESS OTHERWISE AGREED TO BEFOREHAND, SUBMITTALS MUST BE PROVIDED AS ONE COMPLETE PACKAGE OF ALL MATERIALS AND EQUIPMENT - PARTIAL SUBMITTALS WILL NOT BE ACCEPTED.
E. APPROVAL OF SUBMITTALS DOES NOT RELEASE THE CONTRACTOR FROM OBLIGATIONS TO FULLY COMPLY WITH ALL REQUIREMENTS OF THE CONSTRUCTION DOCUMENTS OR APPLICABLE CODE REGULATIONS.

1.9 AS-BUILT DRAWINGS:
PROVIDE A CLEAN SET OF BLUELINE PRINTS INDICATING ALL CHANGES WITH CLOUDS AND PROVIDE CAD AND PDF FILES ON A DISK WHICH SHOW SYSTEMS AS INSTALLED AND SUBMIT TO THE ARCHITECT AT COMPLETION OF THE PROJECT.

PART 2 - PRODUCTS

2.1 DUCTWORK:
A. ALL RECTANGULAR, FLAT OVAL, AND ROUND DUCTWORK UNLESS NOTED OTHERWISE SHALL BE GALVANIZED IRON WITH GAUGE AS SPECIFIED IN THE S.M.A.C.N.A. DUCT STANDARDS. EXPOSED ROUND DUCT SHALL BE SPIRAL CONSTRUCTION. FLEX DUCTWORK SHALL BE CASCO SILENT FLEX II OR EQUAL ACOUSTICAL WIRE MOLD FLEX DUCT WITH SPUNBONDED NON-WOVEN NYLON INNER LINER. FLEX DUCT SHALL BE FULLY INSULATED WITH R4.2, R6, OR R8 PER C.E.C. TITLE 24 STDS OR THE TITLE 24 REPORT WHICHEVER IS MORE STRINGENT. SEE PART 3- EXECUTION OF THESE SPECS FOR LIMITATIONS OF FLEX DUCT.
B. ALUMAFLEX DUCT IS NOT ALLOWED
C. PAINTABLE EXPOSED DUCTWORK: MECHANICAL CONTRACTOR SHALL VERIFY IF EXPOSED DUCTWORK IS TO BE PAINTED (PAINTING BY G.C.). IF DUCTWORK SHALL BE PAINTED, MECHANICAL CONTRACTOR SHALL PROVIDE FACTORY PRIMED DUCTWORK.

2.2 FLEXIBLE CONNECTIONS:
PROVIDE VENTFAB FLEXIBLE DUCT CONNECTORS AT FANS, BLOWERS, AND AIR HANDLING MECHANICAL UNITS. PROVIDE VENTGLAS IF EXPOSED TO WEATHER.

2.3 THERMAL INSULATION FOR DUCTS AND PLENUMS:
A. ALL DUCTS AND PLENUMS SHALL BE WRAPPED WITH THERMAL INSULATION UNLESS SPECIFICALLY NOTED OTHERWISE ON THE PLANS. EXPOSED DUCTS AND PLENUMS IN THE ACTUAL CONDITIONED SPACE SHALL NOT BE WRAPPED WITH THERMAL INSULATION.
B. DUCTS & PLENUMS INSIDE THE BUILDING IN ATTICS AND BETWEEN FLOORS SHALL BE WRAPPED WITH JOHNS MANVILLE MICROLITE EQ INSULATION WITH FSK FOIL VAPOR RETARDANT JACKET.
C. EXTERIOR ROUND DUCTS (LESS THAN 24" DIA.) EXPOSED TO WEATHER SHALL BE WRAPPED WITH JOHNS MANVILLE MICRO-LOK HP WITH ASJ VAPOR RETARDANT JACKET AND ALSO WRAPPED WITH VENTURECLAD 1577CW OR EQUAL FIELD APPLIED WEATHER BARRIER JACKET WITH PRESSURE SENSITIVE ADHESIVE. EXTERIOR PLENUMS AND RECTANGULAR DUCTS SHALL BE WRAPPED WITH JOHNS MANVILLE 817 SERIES SPIN-GLAS INSULATION WITH ASJ VAPOR RETARDANT JACKET AND ALSO WRAPPED WITH VENTURECLAD 1577CW OR EQUAL FIELD APPLIED WEATHER BARRIER JACKET WITH PRESSURE SENSITIVE ADHESIVE.
D. MINIMUM INSULATION THICKNESS AND DENSITY SHALL BE PER THE C.E.C. TITLE 24 STANDARDS. MORE STRINGENT REQUIREMENTS MAY BE LISTED IN THE TITLE 24 REPORT FOR THIS PROJECT

2.4 MECHANICAL EQUIPMENT, DIFFUSERS, REGISTERS, AND GRILLES:
PROVIDE PER SCHEDULES ON THE DRAWINGS. THE CONTRACTOR SHALL VERIFY ELECTRICAL CHARACTERISTICS WITH THE ELECTRICAL CONTRACTOR PRIOR TO ORDERING AND INSTALLING MECHANICAL EQUIPMENT.

2.5 SEISMIC RESTRAINTS:
PROVIDE SEISMIC RESTRAINTS FOR ALL DUCT, PIPING, AND EQUIPMENT IN ACCORDANCE WITH "SMACNA" SEISMIC RESTRAINT & SUPPORT MANUAL GUIDELINES. IN ADDITION, PROVIDE SEISMIC SUPPORTS FOR HVAC DUCTWORK WHERE THE DUCTS ARE SUSPENDED FROM HANGERS MORE THAN 12 INCHES IN LENGTH OR IF THE HVAC DUCTS HAVE A CROSS SECTIONAL AREA OF 6 SQUARE FEET OR GREATER.

2.6 FIRE DAMPERS, COMBINATION FIRE/SMOKE DAMPERS, AND SMOKE DETECTORS:
A. PROVIDE LISTED AND APPROVED FIRE DAMPERS AND COMBINATION FIRE SMOKE DAMPERS WHERE NOTED ON THE DRAWINGS AND/OR WHERE REQUIRED PER THE U.B.C. PROVIDE SMOKE ACTIVATION OF COMBINATION FIRE-SMOKE DAMPERS BY A 120V-1PH DAMPER ACTUATOR WITH ACTIVATION BY AN APPROVED SMOKE DETECTOR.
B. PROVIDE LISTED AND APPROVED SMOKE DETECTOR IN SUPPLY AIR DUCT TO AUTOMATICALLY SHUT DOWN THE MECHANICAL UNIT PER 2022 C.M.C. SECTION 608. SMOKE DETECTORS SHALL BE TOTALINE P270-2000PL OR EQUAL WITH A VELOCITY RATING OF 100 TO 4000 F.P.M. WHEN INSTALLED ON OUTDOOR DUCTS THEY SHALL BE EQUIPPED WITH MFG. WEATHERPROOF ENCLOSURE. DUCT MOUNTED SMOKE DETECTORS SHALL BE PROVIDED AND INSTALLED BY THE MECH. CONTR. & WIRED BY THE ELECT. CONTR. ACCESS PANELS SHALL BE PROVIDED IN INACCESSIBLE AREAS BY THE GEN. CONTR. - MECH. CONTR. SHALL COORDINATE LOCATION WITH THE GEN. CONTR.
C. IN BLDGS. WHERE FIRE ALARM SYSTEMS ARE PROVIDED, ALL SMOKE DETECTORS SHALL BE SUPERVISED BY AND ACTIVATE THE FIRE ALARM SYSTEM PER CFSM INTERPRETATION.
D. ALL DUCTS PENETRATING A FIRE RATED WALL SHALL BE MINIMUM 26 GA. METAL.

PARTS - EXECUTION

3.1 GENERAL:
UNLESS OTHERWISE SPECIFIED HEREIN, ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED RECOMMENDATIONS. BEFORE SUBMITTING HIS BID, THE CONTRACTOR SHALL CAREFULLY STUDY ALL DRAWINGS, AND SHALL MAKE A CAREFUL EXAMINATION OF THE PREMISES. HE SHALL DEFINITELY DETERMINE IN ADVANCE, THE METHODS OF INSTALLING AND CONNECTING THE APPARATUS, THE MEANS TO BE PROVIDED FOR GETTING THE EQUIPMENT INTO PLACE, AND SHALL MAKE HIMSELF THOROUGHLY FAMILIAR WITH ALL THE REQUIREMENTS OF THE CONTRACT. AFTER AWARD OF THE CONTRACT, NO SUBSEQUENT ALLOWANCES WILL BE MADE TO THE CONTRACTOR DUE TO HIS FAILURE TO COMPLY WITH THE ABOVE REQUIREMENTS AND ANY OTHER CONDITIONS AFFECTING THE INSTALLATION AND COMPLETION OF ALL WORK.

3.2 EQUIPMENT INSTALLATION AND CLEARANCES:
A. ALL MECHANICAL EQUIPMENT AND DEVICES SHALL BE INSTALLED PER MANUFACTURERS INSTRUCTIONS. OPERATING AND SERVICE CLEARANCES REQUIRED BY CODE AND THE MANUFACTURER SHALL BE PROVIDED. CONTRACTOR SHALL FIELD VERIFY AVAILABLE CEILING AND ATTIC SPACE FOR ROUTING OF DUCTWORK AND INSTALLATION OF EQUIPMENT PRIOR TO START OF WORK. ALL DISCREPANCIES BETWEEN MANUFACTURERS. INSTRUCTIONS AND THE DRAWINGS OR CONFLICTS DUE TO LACK OF AVAILABLE INSTALLATION SPACE SHALL BE BROUGHT TO THE ARCHITECTS AND ENGINEERS ATTENTION PRIOR TO START OF WORK.
B. LOCATION ALL ROOFTOP MECHANICAL EQUIPMENT SHALL BE COORDINATED WITH OTHER TRADES AND DISCIPLINES INCLUDING BUT NOT LIMITED TO THE STRUCTURAL ENGINEER, ARCHITECT, FIRE SPRINKLER CONTRACTOR, ELECTRICAL CONTRACTOR, PLUMBING CONTRACTOR, AND GENERAL CONTRACTOR PRIOR TO START OF WORK.
C. CONTRACTOR SHALL VERIFY WEIGHTS OF ALL MECHANICAL EQUIPMENT WITH THEIR MANUFACTURER PRIOR TO START OF WORK. IF DIFFERENT THAN THE WEIGHTS INDICATED ON THE DRAWINGS, CONTRACTOR SHALL INFORM THE ARCHITECT AND GENERAL CONTRACTOR PRIOR TO START OF WORK.
D. CONTRACTOR SHALL VERIFY EXACT ROOF OPENING SIZES FOR MECHANICAL EQUIPMENT WITH THE UNIT MANUFACTURER PRIOR TO START OF WORK AND COORDINATE THESE OPENINGS WITH THE ARCHITECT, GENERAL CONTRACTOR, AND OTHER RELATED TRADES PRIOR TO START OF WORK.
E. COORDINATE FINAL LOCATIONS OF THERMOSTATS AND SENSORS WITH ARCHITECT. IN ADDITION, CONTRACTOR SHALL SCHEDULE A WALK THRU WITH THE TENANT AND/OR OWNER PRIOR TO INSTALLATION TO INSURE THAT THERMOSTAT AND/OR SENSOR LOCATIONS DO NOT CONFLICT WITH TENANTS OR OWNERS FURNITURE, FIXTURES, OR EQUIPMENT.
F. ALL NEW HVAC EQUIPMENT SHALL BE LABELED TO CORRESPOND TO THE EQUIPMENT LABELS ON THE MECHANICAL PLANS.
G. AIR CONDITIONING CONDENSERS ARE REQUIRED TO BE LOCATED AT LEAST 5 FEET FROM A CLOTHES DRYER VENT OUTLET PER SECTION 150.0(h)3 B.E.E.S.

3.3 DUCTWORK:
A. CONSTRUCT AND INSTALL ALL DUCTWORK IN ACCORDANCE WITH THE LATEST SMACNA AND ASHRAE RECOMMENDATIONS.
B. DUCT AND EQUIPMENT HANGERS AND SUPPORTS SHALL BE PROVIDED AT INTERVALS AND LOCATIONS PER THE UNIFORM MECHANICAL CODE AND THE UNIFORM BUILDING CODE.
C. PROVIDE TURNING VANES IN RECTANGULAR DUCT ELBOWS.
D. FACTORY MADE FLEXIBLE AIR DUCTS AND CONNECTORS (1) CANNOT BE GREATER THAN 5 FT. IN LENGTH, (2) CANNOT BE USED AS A REPLACEMENT OR IN PLACE OF RIGID ELBOWS (ONLY AN ELBOW CONNECT TO A TERMINAL DEVICE/REGISTER IS ACCEPTABLE), (3) SAG BETWEEN SUPPORT HANGERS SHALL NOT EXCEED 1/2" PER FOOT OF SUPPORT SPACING, AND (4) THE ELBOW CONNECTION TO THE TERMINAL DEVICE/REGISTER IS REQUIRED TO HAVE A BEND WITH A RADIUS THAT IS NOT LESS THAN ONE DUCT DIAMETER PER CMC 603.4.1 AND 603.5
E. FLEX DUCT IS NOT ALLOWED AT EXPOSED AREAS. FLEX DUCT SHALL BE PROTECTED WITH APP'D FOIL WRAP IN ATTIC AREAS WHERE DUCTWORK IS EXPOSED TO SUNLIGHT THRU SKYLIGHTS OR WINDOWS.
F. PROVIDE MANUAL VOLUME DAMPERS WITH QUADRANT LOCKS ON ALL SUPPLY AIR AND OUTSIDE AIR BRANCH DUCTS AND WHERE INDICATED ON PLANS. MANUAL VOLUME DAMPERS SHALL BE INSTALLED IN BRANCH DUCTS AS CLOSE AS POSSIBLE TO THE MAIN DUCT AND SHALL BE IDENTIFIED WITH A BRIGHT RIBBON ATTACHED TO THE DAMPER HANDLE.

3.4 AIR DISTRIBUTION DEVICES:
A. ALL DIFFUSERS THAT ARE ADJUSTABLE SHALL BE ADJUSTED FOR PROPER AIR THROW AND FOR MAXIMUM COMFORT TO OCCUPANTS.
B. ALL ROUND FACE DIFFUSERS SHALL BE PROVIDED WITH OPPOSED BLADE DAMPERS.
C. COORDINATE FINAL LOCATIONS OF AIR DISTRIBUTION DEVICES WITH THE ARCHITECTURAL REFLECTED CEILING PLANS INCLUDING LIGHTS, SPEAKERS, TILES, AND SPRINKLER HEADS.

3.5 INSULATION:
A. INSURE INSULATION IS CONTINUOUS THROUGH INSIDE WALLS. PACK AROUND DUCTS WITH FIRE PROOF SELF-SUPPORTING INSULATION MATERIAL, FULLY SEALED
B. FOR CONCEALED ROUND AND RECTANGULAR DUCTS AND PLENUMS ADHERE DUCT WRAP TO DUCTWORK WITH ADHESIVE APPLIED IN 6 INCH WIDE STRIPS ON 16 INCH CENTERS. PROVIDE 15 GAUGE ANNEALED TIE WIRE TIED, SPIRAL WOUND OR HALF HITCHED AT 16 INCH CENTERS FOR SECURING DUCT INSULATION UNTIL ADHESIVE SETS. BUTT INSULATION AND SEAL JOINTS AND BREAKS WITH 2 INCH LAP OF FOIL ADHERED OVER JOINT.

3.6 TEST AND BALANCE:
A. AFTER THE INSTALLATION IS COMPLETE THE MECHANICAL CONTRACTOR SHALL PROCURE THE SERVICES OF AN INDEPENDENT AABC OR NEBB CERTIFIED AIR BALANCE COMPANY SHALL TEST AND BALANCE ALL COMPONENTS OF THE H.V.A.C. SYSTEMS TO CONFORM TO THE AIR VOLUMES SHOWN ON THE DRAWINGS. ADJUST ALL AIR HANDLING EQUIPMENT TO PROVIDE REQUIRED AIR VOLUMES FOR SUPPLY, RETURN, OUTSIDE AIR, AND EXHAUST AIR QUANTITIES TO WITHIN 10% OF SPECIFIED AIR VOLUME. VARY TOTAL SYSTEM AIR QUANTITIES BY ADJUSTING FAN SPEEDS AND PROVIDE THE FAN DRIVE CHANGES REQUIRED. FOR EACH COMPONENT OF THE SYSTEM, MAKE THE FOLLOWING TESTS AND SUBMIT ONE COPY OF ALL REPORTS TO THE ARCHITECT AND MECHANICAL DESIGNER:
(1) AIR VOLUMES AT EACH SUPPLY, RETURN, AND EXHAUST OUTLET
(2) TOTAL CFM, STATIC PRESSURE AND FAN SPEED OF ALL FANS
(3) MOTOR SPEED AND INPUT AMPERE READING OF ALL FAN MOTORS
B. TEST AND BALANCE SHALL INCLUDE AN EXTENDED WARRANTY OF NINETY (90) DAYS AFTER COMPLETION OF TEST AND BALANCING WORK, DURING WHICH TIME THE OWNER, AT HIS DISCRETION, MAY REQUEST A RECHECK OR RESETTING OF ANY OUTLET, HVAC UNIT OR PRESSURE RELATIONSHIP.
C. CONTRACTOR SHALL REPORT TO ARCHITECT AND ENGINEER AND SPECIFICALLY POINT OUT ANY AIR VOLUMES THAT ARE NOT ABLE TO BE ADJUSTED TO WITHIN 10% OF SPECIFIED AIR VOLUME.

3.7 FINAL OPERATION AND INSTRUCTION:
UPON COMPLETION OF THE INSTALLATION AND AFTER FINAL ACCEPTANCE, AT A TIME APPROVED BY THE OWNER, THE CONTRACTOR SHALL PLACE A QUALIFIED PERSON, OR PERSONS AT THE BUILDING WHO SHALL OPERATE THE HVAC SYSTEMS AND INSTRUCT THE OWNER'S REPRESENTATIVE IN ALL DETAILS OF THE HVAC SYSTEMS OPERATION AND MAINTENANCE INCLUDING CONTROLS.

4.0 WATER TREATMENT:
SEE WATER TREATMENT SPECIFICATION ON DRAWING______________
(THE WATER TREATMENT SPEC IS A MECHANICAL SCHEDULE)

NOTE: TITLE 24 CALCULATIONS ARE NOT REQUIRED FOR THIS PROJECT. THERE ARE NO HEATING OR COOLING EQUIPMENT BEING INSTALLED - ALL HTG/AIR CONDITIONING EQUIPMENT SHOWN IS EXISTING. IN ADDITION, NO OUTSIDE WALLS OR GLAZING IS BEING MODIFIED.

TITLE 24 & BLDG. DEPT. NOTES

1. MANDATORY MEASURES

HEATING EQUIPMENT EFFICIENCY: ALL MECHANICAL EQUIPMENT SHALL MEET THE APPLICABLE EFFICIENCY REQUIREMENTS PER 2022 B.E.E.S. 110.2. SEE MECHANICAL EQUIPMENT SCHEDULES ON SHEET M1.1

COOLING EQUIPMENT EFFICIENCY: ALL MECHANICAL EQUIPMENT SHALL MEET THE APPLICABLE EFFICIENCY REQUIREMENTS PER 2022 B.E.E.S. 110.2. SEE MECHANICAL EQUIPMENT SCHEDULES ON SHEET M1.1

HVAC OR HEAT PUMP THERMOSTATS: ALL UNITARY HEATING OR COOLING SYSTEMS INCLUDING HEAT PUMPS NOT CONTROLLED BY A CENTRAL ENERGY MANAGEMENT CONTROL SYSTEM SHALL HAVE A SETBACK THERMOSTAT WITH A CLOCK MECHANISM THAT ALLOWS THE BUILDING OCCUPANT TO PROGRAM THE TEMPERATURE SETPOINTS FOR AT LEAST FOUR PERIODS WITHIN 24 HOURS PER 2022 B.E.E.S. 110.2(b) AND 110.2(c)

FURNACE STANDBY LOSS CONTROL: GAS FIRED AND OIL FIRED FORCED AIR FURNACES WITH INPUT RATINGS GREATER THAN OR EQUAL TO 225,000 BTUH SHALL ALSO HAVE AN INTERMITTENT IGNITION OR INTERRUPTED DEVICE (IID), AND HAVE EITHER POWER VENTING OR A FLUE DAMPER. A VENT DAMPER IS AN ACCEPTABLE ALTERNATIVE TO A FLUE DAMPER FOR FURNACES WHERE COMBUSTION AIR IS DRAWN FROM THE CONDITIONED SPACE. ALL FURNACES WITH INPUT RATINGS GREATER THAN OR EQUAL TO 225,000 BTUH, INCLUDING ELECTRIC FURNACES, THAT ARE NOT LOCATED WITHIN THE CONDITIONED SPACE SHALL HAVE JACKET LOSSES NOT EXCEEDING 0.75 PERCENT OF THE INPUT RATING PER 2022 B.E.E.S. 110.2(d)

LOW LEAKAGE AHU'S: TO QUALIFY AS LOW LEAKAGE AIR-HANDLING UNIT FOR USE FOR MEETING THE REQUIREMENTS FOR APPLICABLE LOW LEAKAGE AIR-HANDLING UNIT COMPLIANCE CREDIT(S) AVAILABLE IN THE PERFORMANCE STANDARDS SET FORTH IN SECTIONS 150.1(b) AND 140.1, THE MANUFACTURER SHALL CERTIFY TO THE ENERGY COMMISSION THAT THE AIR-HANDLING UNIT MEETS THE SPECIFICATIONS IN REFERENCE JOINT APPENDIX JA9 PER 2022 B.E.E.S. 110.2(f)

VENTILATION: MECHANICAL OR NATURAL VENTILATION SHALL BE PROVIDED PER 2022 B.E.E.S. 120.1(b). THE VENTILATION AIR QUANTITIES ARE LISTED AT THE FLOOR PLAN OR THE ROOF PLAN AT THE EQUIPMENT CALLOUTS.

DEMAND CONTROL VENTILATION: IF THIS IS REQUIRED IT SHALL BE PROVIDED PER 2022 B.E.E.S. 120.1(c)4. IT WILL BE DOCUMENTED IN THE EQUIPMENT SCHEDULE ON SHEET M1.1

OCCUPANT SENSOR VENTILATION CONTROL: IF THIS IS REQUIRED IT WILL BE PROVIDED PER 2022 B.E.E.S. 120.1(c)5 AND 120.2(e)3. IT WILL BE DOCUMENTED IN THE CONTROL NOTES ON SHEET M1.1

SHUTOFF AND RESET CONTROLS: IF THIS IS REQUIRED IT WILL BE PROVIDED PER 2022 B.E.E.S. 120.2(e). IT WILL BE DOCUMENTED IN THE CONTROL NOTES ON SHEET M1.1

OUTDOOR AIR AND EXHAUST DAMPER CONTROL: OUTDOOR AIR SUPPLY AND EXHAUST EQUIPMENT SHALL BE INSTALLED WITH DAMPERS THAT AUTOMATICALLY CLOSE UPON FAN SHUTDOWN PER 2022 B.E.E.S 120.2(f).

EXHAUST DUCTS: EXHAUST DUCTS SHALL BE EQUIPPED WITH BACKDRAFT DAMPERS PER SECTION 504.1.1 CMC.

ISOLATION ZONES: EACH SPACE CONDITIONING SYSTEM SERVING MULTIPLE ZONES WITH A COMBINED CONDITIONED FLOOR AREA OF MORE THAN 25,000 S.F. SHALL BE DESIGNED, INSTALLED, AND CONTROLLED TO SERVE ISOLATION ZONES PER 2022 B.E.E.S. 120.2(g).

AUTOMATIC DEMAND SHED CONTROLS: HVAC SYSTEMS WITH DDC TO THE ZONE LEVEL SHALL BE PROGRAMMED TO ALLOW CENTRALIZED DEMAND SHED FOR NON-CRITICAL ZONES PER 2022 B.E.E.S 120.2(h)

ECONOMIZER FDD: ECONOMIZER FAULT DETECTION AND DIAGNOSTICS SHALL BE PROVIDED PER 2022 B.E.E.S. 120.2(i).

DUCT & PIPE INSULATION: ALL AIR DISTRIBUTION DUCTS AND PLENUMS AND ALL PIPING SHALL BE INSULATED PER THE 2022 C.M.C. AND PER 2022 B.E.E.S. 120.3 & 120.4

INTERIOR DEMISING WALL INSULATION: THE OPAQUE PORTIONS OF FRAMED DEMISING WALLS IN NONRESIDENTIAL BUILDINGS SHALL BE INSULATED WITH AN INSTALLED R-VALUE OF NO LESS THAN R-13 BETWEEN FRAMING MEMBERS.

2. PENETRATIONS OF FIRE RESISTIVE WALLS, FLOOR-CEILINGS, AND ROOF-CEILINGS SHALL BE PROTECTED AS REQUIRED IN THE 2022 CBC
3. INSULATION MATERIAL SHALL MEET THE CALIFORNIA QUALITY STANDARD PER SECTION 110.8 OF THE 2022 BUILDING ENERGY EFFICIENCY STDS.
4. ALL HVAC SYSTEMS SHALL MEET THE CONTROL REQUIREMENTS PER SECTION 110.2 AND 120.2 OF THE BUILDING ENERGY EFFICIENCY STDS.
5. ALL HVAC EQUIPMENT AND APPLIANCES SHALL MEET THE REQUIREMENTS PER SECTION 110.1-110.3, 110.5, 120.1-120.4 OF THE 2022 BUILDING ENERGY EFFICIENCY STDS.
6. GRAVITY OR AUTOMATIC DAMPERS INTERLOCKED AND CLOSED ON FAN SHUT DOWN SHALL BE PROVIDED ON THE OUTSIDE AIR INTAKES AND DISCHARGES OF ALL SPACE CONDITIONING AND EXHAUST SYSTEMS PER THE 2022 BUILDING ENERGY EFFICIENCY STDS.
7. OUTSIDE AIR CERTIFICATION: THE SYSTEMS SHALL PROVIDE THE MINIMUM OUTSIDE AIR AS SHOWN ON THE MECHANICAL DRAWINGS, AND SHALL BE MEASURED AND CERTIFIED BY THE INSTALLING LICENSED C-20 MECHANICAL CONTRACTOR PER THE 2022 BUILDING ENERGY EFFICIENCY STDS.
8. MECHANICAL OUTSIDE AIR INTAKES SHALL BE 10 FT. MIN. FROM EXH. AIR OUTLETS AND PLBG. VENTS. COORDINATE THIS WITH THE PLUMBING CONTRACTOR PRIOR TO INSTALLATION OF MECHANICAL EQUIPMENT AND PLUMBING VENTS.
9. ALL MECHANICAL EQUIPMENT SHOULD BE LISTED AND LABELED BY AN APPROVED TESTING AGENCY. IF NOT, PROVIDE COMPLETE INFORMATION ON EQUIPMENT. TESTING BY AN APPROVED TESTING LABORATORY MAY BE REQUIRED BEFORE FINAL APPROVAL IS GRANTED.
10. MATERIALS EXPOSED WITHIN DUCTS OR PLENUMS SHALL COMPLY WITH THE 2022 CMC
11. PROVIDE SMOKE DETECTORS IN MAIN SUPPLY AIR DUCTS OF AIR MOVING SYSTEMS EXCEEDING 2000 cfm PER SECTION 608.0 CMC
12. E.E.S. CERTIFICATE OF ACCEPTANCE FORMS AND ALL RELATED ACCEPTANCE DOCUMENTS SHALL BE SUBMITTED TO THE FIELD INSPECTOR DURING CONSTRUCTION. CERTIFICATE OF OCCUPANCY WILL NOT BE ISSUED UNTIL THESE FORMS ARE REVIEWED AND APPROVED.
13. E.E.S. INSTALLATION CERTIFICATES MUST BE COMPLETED, SIGNED, ASSEMBLED, AND POSTED WEATHER-PROTECTED WITHIN THE BUILDING FOR REVIEW BY INSPECTORS. EES 10-103(a)3, 10-103(b)1.A.
14. INSTALLATIONS OF HVAC & REFRIGERATION SYSTEMS SHALL NOT CONTAIN CFC'S OR HALONS PER CGC 5.508.1.
15. ROOF ACCESS LADDER SHALL COMPLY WITH THE 2022 CMC
16. JOINTS AND SEAMS OF DUCT SYSTEMS AND THEIR COMPONENTS EITHER FACTORY OR FIELD FABRICATED SHALL NOT BE SEALED WITH CLOTH BACK RUBBER ADHESIVE DUCT TAPE UNLESS SUCH TAPE IS USED IN COMBINATION WITH MASTIC AND DRAW BANDS PER THE 2022 BUILDING ENERGY EFFICIENCY STDS.
17. ALL ENVELOPE AND MECHANICAL CERTIFICATE OF ACCEPTANCE FORMS AND ALL RELATED ACCEPTANCE DOCUMENTS SHALL BE SUBMITTED TO THE FIELD INSPECTOR DURING CONSTRUCTION. CERTIFICATE OF OCCUPANCY WILL NOT BE ISSUED UNTIL THESE FORMS ARE REVIEWED AND APPROVED.
18. ALL PIPING AND DUCTWORK SHALL BE INSULATED CONSISTENT WITH THE REQUIREMENTS OF SECTIONS 120.3, 120.4, AND 120.7 TITLE 24 ENERGY STANDARDS AND CHAPTER 6 OF CMC.
19. DUCTWORK SHALL BE LEAK TESTED PER C.M.C. 603.10.1
20. EXHAUST FANS SHALL BE EQUIPPED WITH BACK-DRAFT DAMPERS PER SEC. 504.1.1 CMC
21. PENETRATIONS INTO OR THROUGH FIRE WALLS, FIRE BARRIERS, SMOKE BARRIER WALLS AND FIRE PARTITIONS SHALL COMPLY WITH SECTIONS 714.4.1 THROUGH 714.4.3. PENETRATIONS IN SMOKE BARRIER WALLS SHALL ALSO COMPLY WITH SECTION 714.5.4

2022 CA. GREEN BLDG. STDS.

1. AT THE TIME OF ROUGH INSTALLATION & DURING STORAGE ON THE CONSTRUCTION SITE UNTIL FINAL STARTUP OF HEATING, COOLING & VENTILATING EQUIPMENT, ALL DUCT & OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEET METAL OR OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY TO REDUCE THE AMOUNT OF DUST, WATER & DEBRIS WHICH MAY ENTER THE SYSTEM. CGC 5.504.3
2. INSTALLATIONS OF HVAC & REFRIGERATION SYSTEMS SHALL COMPLY WITH SECTION 5.508.1 & 5.508.2. HVAC & REFRIGERATION SYSTEMS SHALL NOT CONTAIN CFC'S OR HALONS PER CGC 5.508.1.
3. TESTING & ADJUSTING:
5.410.4 TESTING & ADJUSTING. TESTING & ADJUSTING OF SYSTEMS SHALL BE REQUIRED FOR NEW BUILDINGS LESS THAN 10,000 SQUARE FEET OR NEW SYSTEMS TO SERVE AN ADDITION OR ALTERATION SUBJECT TO SECTION 303.1.
5.410.4.1 (RESERVED)
5.410.4.2 SYSTEMS. DEVELOP A WRITTEN PLAN OF PROCEDURES FOR TESTING & ADJUSTING SYSTEMS. SYSTEMS TO BE INCLUDED FOR TESTING & ADJUSTING SHALL INCLUDE, AS APPLICABLE TO THE PROJECT:
    1. HVAC SYSTEMS & CONTROLS.
    2. INDOOR & OUTDOOR LIGHTING & CONTROLS.
    3. WATER HEATING SYSTEMS.
    4. RENEWABLE ENERGY SYSTEMS.
    5. LANDSCAPE IRRIGATION SYSTEMS.
    6. WATER REUSE SYSTEMS.
5.410.4.3 PROCEDURES. PERFORM TESTING & ADJUSTING PROCEDURES IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS & APPLICABLE STANDARDS ON EACH SYSTEM.
5.410.4.3.1 HVAC BALANCING. IN ADDITION TO TESTING & ADJUSTING, BEFORE A NEW SPACE-CONDITIONING SYSTEM SERVING A BUILDING OR SPACE IS OPERATED FOR NORMAL USE, BALANCE THE SYSTEM IN ACCORDANCE WITH THE PROCEDURES DEFINED BY THE TESTING ADJUSTING & BALANCING BUREAU NATIONAL STANDARDS; THE NATIONAL ENVIRONMENTAL BALANCING BUREAU PROCEDURAL STANDARDS; ASSOCIATED AIR BALANCE COUNCIL NATIONAL STANDARDS OR AS APPROVED BY THE ENFORCING AGENCY.
5.410.4.4 REPORTING. AFTER COMPLETION OF TESTING, ADJUSTING & BALANCING, PROVIDE A FINAL REPORT OF TESTING SIGNED BY THE INDIVIDUAL RESPONSIBLE FOR PERFORMING THESE SERVICES.
5.410.4.5 OPERATION & MAINTENANCE (O&M) MANUAL. PROVIDE THE BUILDING OWNER OR REPRESENTATIVE WITH DETAILED OPERATING & MAINTENANCE INSTRUCTIONS & COPIES OF GUARANTEES/WARRANTIES FOR EACH SYSTEM. O&M INSTRUCTIONS SHALL BE CONSISTENT WITH OSHA REQUIREMENTS IN CCR, TITLE 8, SECTION 5142 & OTHER RELATED REGULATIONS.
5.410.4.5.1 INSPECTIONS & REPORTS. INCLUDE A COPY OF ALL INSPECTION VERIFICATIONS & REPORTS REQUIRED BY THE ENFORCING AGENCY.
4. THE PERMANENT HVAC SYSTEM SHALL ONLY BE USED DURING CONSTRUCTION IF NECESSARY TO CONDITION THE BUILDING OR AREA'S OF ADDITION OR ALTERATION WITHIN THE REQUIRED TEMPERATURE RANGE FOR MATERIAL EQUIPMENT INSTALLATION. IF THE HVAC SYSTEM IS USED DURING CONSTRUCTION RETURN AIR FILTERS WITH A MERV OF 8, BASED ON ASHRAE 52.1-1991 SHALL BE USED. ALL FILTERS SHALL BE REPLACED IMMEDIATELY PRIOR TO OCCUPANCY OR AT THE CONCLUSION OF CONSTRUCTION. CGC 5.504.1.3
5. IN MECHANICALLY VENTILATED BUILDINGS, REGULARLY OCCUPIED AREAS OF THE BUILDING SHALL BE PROVIDED WITH AIR FILTRATION MEDIA FOR OUTSIDE AND RETURN AIR THAT PROVIDES AT LEAST A MINIMUM EFFICIENCY REPORTING VALUE (MERV) OF 8. MERV 8 FILTERS SHALL BE INSTALLED PRIOR TO OCCUPANCY & RECOMMENDATIONS FOR MAINTENANCE WITH FILTERS OF THE SAME VALUE SHALL BE INCLUDED IN THE OPERATION & MAINTENANCE MANUAL. (CAL GREEN SECTION 5.504.5.3)
6. EXCEPTION TO CAL GREEN SECTION 5.504.5.3: AN ASHRAE 10% TO 15% EFFICIENCY FILTER SHALL BE PERMITTED FOR AN HVAC UNIT MEETING THE 2013 CALIFORNIA ENERGY CODE HAVING 60,000 Btu/h OR LESS CAPACITY PER FAN COIL, IF THE ENERGY USE OF THE AIR DELIVERY SYSTEM IS 0.4 W/cfm OR LESS AT DESIGN AIR FLOW.
7. WHERE OUTDOOR AREAS ARE PROVIDED FOR SMOKING, PROHIBIT SMOKING WITHIN 25 FEET OF BUILDING ENTRIES, OUTDOOR AIR INTAKES AND OPERABLE WINDOWS AND WITHIN THE BUILDING AS ALREADY PROHIBITED BY OTHER LAWS OR REGULATIONS; OR AS ENFORCED BY ORDINANCES, REGULATIONS, OR POLICIES OF ANY CITY, COUNTY, CITY & 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, SIGNAGE SHALL BE POSTED TO INFORM BUILDING OCCUPANTS OF THE PROHIBITIONS.
8. MECHANICALLY OR NATURALLY VENTILATED SPACES IN BUILDINGS SHALL MEET THE MINIMUM REQUIREMENTS OF SECTION 121 (REQUIREMENTS FOR VENTILATION) OF THE 2022 CALIFORNIA ENERGY CODE, OR THE APPLICABLE LOCAL CODE, WHICHEVER IS MORE STRINGENT, AND DIVISION 1, CHAPTER 4 OF CCR, TITLE 8. (CAL GREEN SECTION 5.506.1)
9. FOR BUILDINGS OR ADDITIONS EQUIPPED WITH DEMAND CONTROL VENTILATION, CO2 SENSORS & VENTILATION SHALL BE SPECIFIED & INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF 2022 CALIFORNIA ENERGY CODE, SECTION 120(c)(4). (CAL GREEN SECTION 5.506.2)
10. IN ADDITION TO TESTING & ADJUSTING, BEFORE A NEW SPACE-CONDITIONING SYSTEM SERVING A BUILDING OR SPACE IS OPERATED FOR NORMAL USE, BALANCE THE SYSTEM IN ACCORDANCE WITH THE PROCEDURES DEFINED BY THE TESTING ADJUSTING & BALANCING BUREAU NATIONAL STANDARDS; THE NATIONAL ENVIRONMENTAL BALANCING BUREAU PROCEDURAL STANDARDS; OR ASSOCIATED AIR BALANCE COUNCIL NATIONAL STANDARDS.
11. PROVIDE THE BUILDING OWNER OR REPRESENTATIVE WITH DETAILED OPERATING & MAINTENANCE INSTRUCTIONS & COPIES OF GUARANTIES/WARRANTIES FOR EACH SYSTEM. O&M INSTRUCTIONS SHALL BE CONSISTENT WITH OSHA REQUIREMENTS IN CCR, TITLE 8, SECTION 5142 & OTHER RELATED REGULATIONS.
13. PRIOR TO FINAL INSPECTION THE LICENSED CONTRACTOR OR ARCHITECT IN CHARGE OF THE OVERALL CONSTRUCTION MUST PROVIDE TO THE BUILDING DEPARTMENT OFFICIAL WRITTEN VERIFICATION THAT ALL APPLICABLE PROVISIONS FROM THE GREEN BUILDING STANDARDS CODE HAVE BEEN IMPLEMENTED AS PART OF THE CONSTRUCTION. CGC 102.3

AIR DISTRIBUTION SCHEDULE

MARK	TYPE	DESCRIPTION
CD1	CLG. DIFF	OR APPROVED EQUAL PRICE MODEL SCDA, T-BAR/LAY-IN, 24"x24", ADJUSTABLE SQUARE CONE DIFFUSER, 4-WAY BLOW, NECK SIZE AS NOTED
RG1	RETURN GRILLE	OR APPROVED EQUAL PRICE MODEL 530/TB, T-BAR/LAY-IN, BAR FACE NECK SIZE AS NOTED, 20"x20" NECK

MECHANICAL LEGEND

SYMBOL	ABBREV.	DESCRIPTION
⊠	SA	SUPPLY AIR
⧄	RA	RETURN AIR
⊠	EA	EXHAUST AIR
⊠	OA	OUTSIDE AIR
⊠	CD	CEILING DIFFUSER
⧄	RG/RR	RETURN GRILLE/RETURN REGISTER
⊠	EG/ER	EXHAUST REGISTER/EXHAUST GRILLE
	SR	SIDEWALL REGISTER
	SSD	SIDEWALL SLOT DIFFUSER
	CSD	CEILING SLOT DIFFUSER
	SSR	SIDEWALL SLOT RETURN
	CSR	CEILING SLOT RETURN
	MVD	MANUAL VOLUME DAMPER
	FD	FIRE DAMPER
	FSD	FIRE/SMOKE DAMPER
● DSD	DSD	DUCT MOUNTED SMOKE DETECTOR
		EXPOSED UNINSULATED SPIRAL DUCT
	(L)	DUCT WITH SOUND INSULATION - INTERNALLY LINED (INSIDE DIMENSIONS SHOWN)
-----C/D-----	C/D	CONDENSATE DRAIN PIPING
Ⓣ	T	THERMOSTAT
Ⓣ R	T	THERMOSTAT WITH REMOTE SENSOR IN RETURN AIR GRILLE
Ⓢ	S	REMOTE SENSOR
◉		REMOTE CONTROL MANUAL VOLUME DAMPER
	CFM	CUBIC FEET PER MINUTE
	(E)	EXISTING
	(E)(R)	EXISTING AND RELOCATED
	(N)	NEW
	N.I.M.C.	NOT IN MECHANICAL CONTRACT
		EXIST. AIR DISTRIBUTION
-·-·-·-		EXIST. DUCTWORK
━━━		NEW DUCTWORK
		1-HR FIRE RATED WALL
ASW		2-HR AREA SEPARATION WALL

FC / 5.0 / 1A
MECH. EQUIPMENT TYPE
SIZE IN TONS
ZONE NUMBER

HMD M&P INC.
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PROJECT

A PROPOSED COMMERCIAL DEVELOPMENT AT:
County Project: SR7117SS Imperial County Department
of Social Services
2995 S. 4th Street-Suite 105
El Centro, CA 92243

REVISIONS

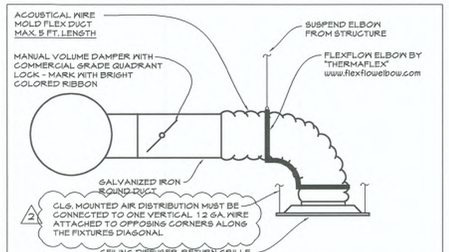
NO.	DESCRIPTION	DATE

VICTOR NEUMAN
Victor Neuman
NO. 23110
Exp. 9/30/2026

SHEET TITLE

MECHANICAL SCHEDULES

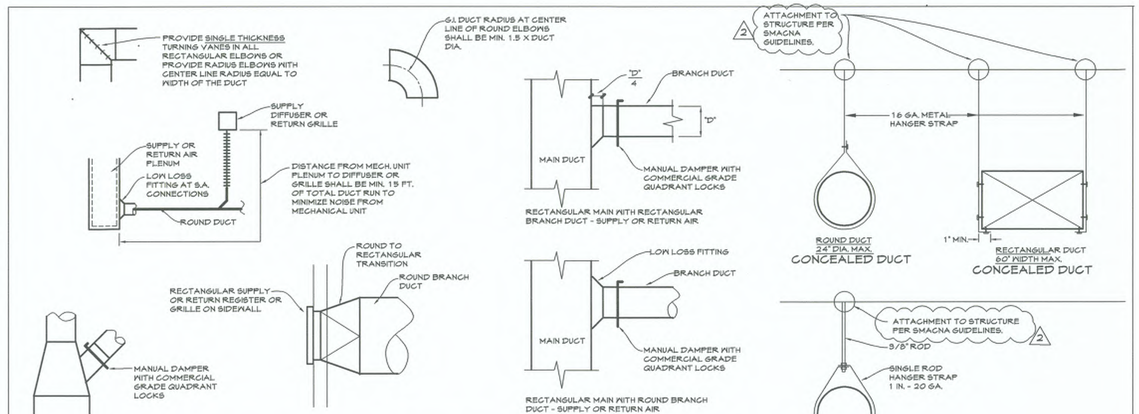
DATE:	05-17-25	SCALE:	AS NOTED
DRAWN BY:	TJH	DATABASE:	
CHECKED BY:	—	SHEET NUMBER:	M1.1
PROJECT NO:	25115		



FLEX DUCT AT AIR DISTRIBUTION

N.T.S.

A



ALL DUCTWORK SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THESE DETAILS AND THE SMACNA HVAC DUCT CONSTRUCTION STANDARDS

GENERAL AIR DISTRIBUTION DETAILS

N.T.S.

B

2

NOTE:
ALL DUCT CONSTRUCTION SHALL BE PER THE SMACNA HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE AND PER CMC 603

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PROJECT

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County Project: SR7117SS Imperial County Department of Social Services
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REVISIONS

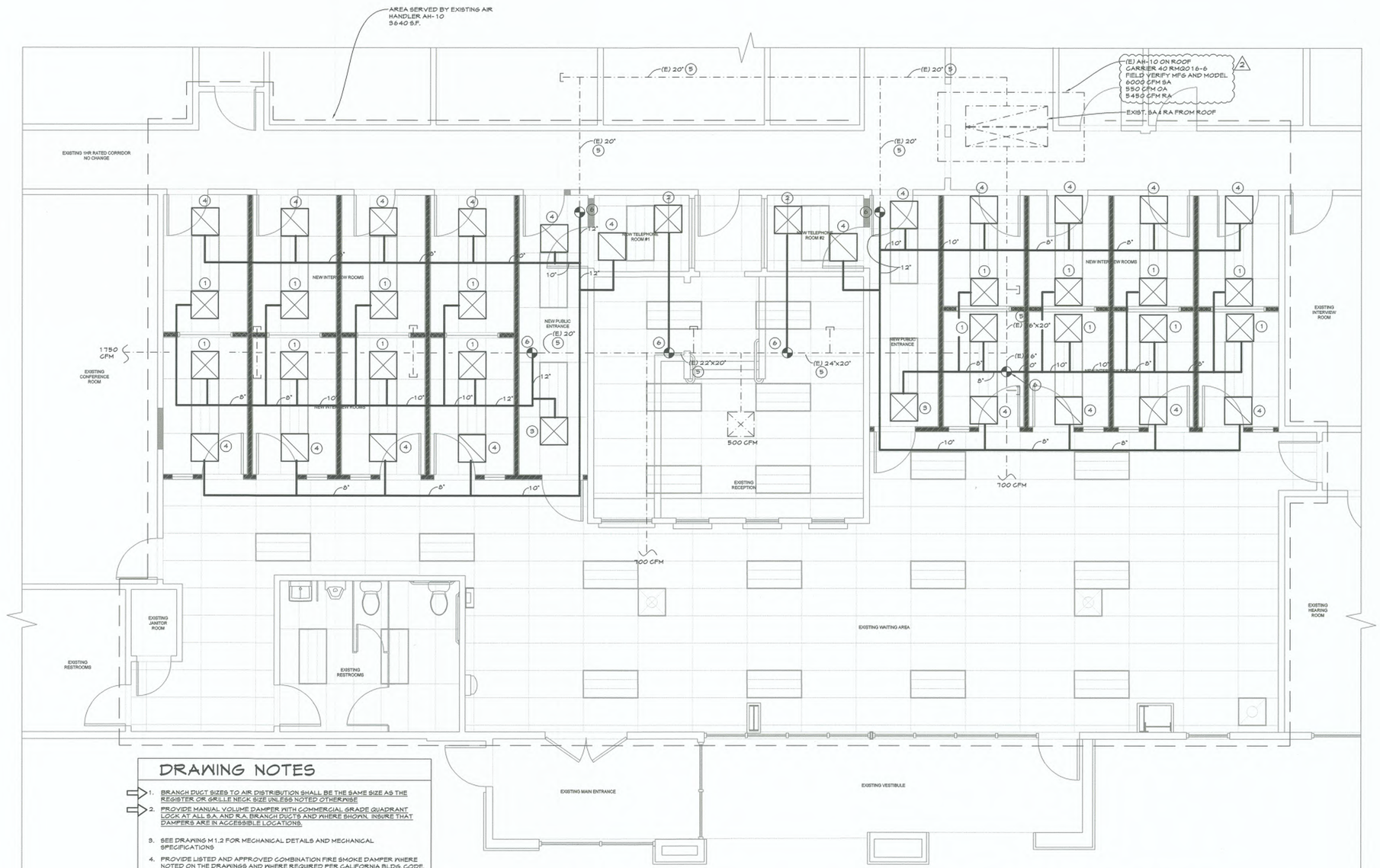
NO.	DESCRIPTION	DATE
2	PLAN REVIEW CHANGES	8-24-26

REGISTERED PROFESSIONAL ENGINEER VICTOR NEUMANN NO. 23110 Exp. 9/30/2026 MECHANICAL STATE OF CALIFORNIA

SHEET TITLE

MECHANICAL DETAILS

DATE: 05-17-25	SCALE: AS NOTED
DRAWN BY: TJH	DATABASE:
CHECKED BY: ---	SHEET NUMBER: M1.2
PROJECT NO: 25115	



DRAWING NOTES

1. BRANCH DUCT SIZES TO AIR DISTRIBUTION SHALL BE THE SAME SIZE AS THE REGISTER OR GRILLE NECK SIZE UNLESS NOTED OTHERWISE
2. PROVIDE MANUAL VOLUME DAMPER WITH COMMERCIAL GRADE QUADRANT LOCK AT ALL S.A. AND R.A. BRANCH DUCTS AND WHERE SHOWN. INSURE THAT DAMPERS ARE IN ACCESSIBLE LOCATIONS.
3. SEE DRAWING M 1.2 FOR MECHANICAL DETAILS AND MECHANICAL SPECIFICATIONS
4. PROVIDE LISTED AND APPROVED COMBINATION FIRE SMOKE DAMPER WHERE NOTED ON THE DRAWINGS AND WHERE REQUIRED PER CALIFORNIA BLDG. CODE. PROVIDE SMOKE ACTIVATION BY A 120V-1PH DAMPER ACTUATOR WITH ACTIVATION BY AN APPROVED SMOKE DETECTOR
5. FACTORY MADE FLEXIBLE AIR DUCTS AND CONNECTORS
   (1) CANNOT BE GREATER THAN 5 FT. IN LENGTH.
   (2) CANNOT BE USED AS A REPLACEMENT OR IN PLACE OF RIGID ELBOWS (ONLY AN ELBOW CONNECT TO A TERMINAL DEVICE/REGISTER IS ACCEPTABLE)
   (3) SAG BETWEEN SUPPORT HANGERS SHALL NOT EXCEED 1/2" PER FOOT OF SUPPORT SPACING, AND
   (4) THE ELBOW CONNECTION TO THE TERMINAL DEVICE/REGISTER IS REQUIRED TO HAVE A BEND WITH A RADIUS THAT IS NOT LESS THAN ONE DUCT DIAMETER PER CMC 603.4.1 AND 603.5.
6. DUCTWORK SHALL BE LEAK TESTED PER C.M.C. 603.10.1
7. MECH. CONTR. SHALL VERIFY PROPER DUCT CLEARANCE BEFORE INSTALLATION. IF ROUND DUCT DOES NOT FIT, PROVIDE 6:1 RECTANGULAR WITH THE SAME CROSS SECTIONAL AREA
8. PER TITLE 24 STANDARDS NEW OR REPLACEMENT SPACE CONDITIONING SYSTEM DUCTS INSTALLED TO SERVE AN EXISTING BUILDING SHALL MEET THE REQUIREMENETS OF SECTION 120.4(a) THROUGH (f) AND MEET I, II, OR III BELOW: I. ENTIRELY NEW OR COMPLETE REPLACEMENT DUCT SYSTEMS INSTALLED AS PART OF AN ALTERATION SHALL BE LEAKAGE TESTED IN ACCORDANCE WITH SECTION 120.4(g).

KEY NOTES

1. GD-1 SA DIFFUSER, 60 cfm, 6" NECK, BRANCH SIZE SAME AS NECK SIZE, SEE DETAIL A/M1.2
2. GD-1 SA DIFFUSER, 40 cfm, 6" NECK, BRANCH SIZE SAME AS NECK SIZE, SEE DETAIL A/M1.2
3. GD-1 SA DIFFUSER, 80 cfm, 6" NECK, BRANCH SIZE SAME AS NECK SIZE, SEE DETAIL A/M1.2
4. RG-1 RA GRILLE, 6" NECK, BRANCH SIZE SAME AS NECK SIZE, SEE DETAIL A/M1.2.
   RETURN AIR CFM SHALL BE 11% OF THE SUPPLY AIR CFM
5. FIELD VERIFY (E) DUCT SIZE. IF SIZE IS SMALLER THAN WHAT IS CALLED OUT THEN PROVIDE NEW
6. POC TO (E) DUCT

NORTH

FLOOR PLAN - MECHANICAL

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

FIELD VERIFICATION NOTES

1. THESE DESIGN DRAWINGS ARE SCHEMATIC. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO PROVIDING BID TO INSPECT EXISTING FIELD CONDITIONS. THIS CONTRACT SHALL INCLUDE ALL LABOR AND MATERIALS NECESSARY FOR MODIFICATIONS OF EXISTING DESIGN DUE TO EXISTING CONDITIONS.
2. THE CONTRACTOR SHALL CONTACT THE ARCHITECT, ENGINEER, OR OWNER PRIOR TO PROVIDING BID FOR CLARIFICATIONS OF THE DESIGN AND INCLUDE IN HIS BID ALL COSTS TO MEET THE DESIGN INTENT.

OUTSIDE AIR VENTILATION REQUIREMENTS

PER CALIFORNIA BUILDING ENERGY EFFICIENCY STANDARDS TABLE 4-1.2 AND TABLE 120.1-A:

OCCUPANCY CATEGORY: OFFICE & RECEPTION AREAS
MIN. OUTDOOR AIR RATE: 0.15 CFM/SF
3640 SF @ 0.15 CFM/SF = 550 cfm

TOTAL FOR AH-10 UNIT = 550 CFM

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REVISIONS

NO.	DESCRIPTION	DATE
2	PLAN REVIEW CHANGES	9-24-25

REGISTERED PROFESSIONAL ENGINEER
VICTOR NEUMAN
NO. 23110
Exp. 9/30/2026
MECHANICAL
STATE OF CALIFORNIA

SHEET TITLE
MECHANICAL FLOOR PLAN

DATE: 05-17-25	SCALE: AS NOTED
DRAWN BY: TJH	DATABASE:
CHECKED BY: —	SHEET NUMBER: M2.1
PROJECT NO: 25115	

STATE OF CALIFORNIA

Mechanical Systems

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, or 141.0(b)2 for alterations.		
Project Name: Imperial County Social Services	Report Page:	(Page 1 of 6)
Project Address:	Date Prepared:	2025-08-20T14:55:37-04:00

A. GENERAL INFORMATION

01	Project Location (city)	Imperial County	04	Total Conditioned Floor Area	3640
02	Climate Zone	15	05	Total Unconditioned Floor Area	0
03	Occupancy Types Within Project:		06	# of Stories (Habitable Above Grade)	1

- Office

B. PROJECT SCOPE

This table includes mechanical systems or components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, 170.2(b) or 141.0(b)2 and 180.2(b)2 for alterations.

01	02	03
Air System(s)	Wet System Components	Dry System Components
☐ Heating Air System	☐ Water Economizer	☐ Air Economizer
☐ Cooling Air System	☐ Pumps	☐ Electric Resistance Heat
Mechanical Controls	☐ System Piping	☐ Fan Systems
☐ Mechanical Controls (existing to remain, altered or new)	☐ Cooling Towers	☒ Ductwork (existing to remain, altered or new)
	☐ Chillers	☒ Ventilation
	☐ Boilers	☐ Zonal Systems/ Terminal Boxes

Generated Date/Time:

Documentation Software: Energy Code Ace

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000
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STATE OF CALIFORNIA

Mechanical Systems

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C. COMPLIANCE RESULTS

Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D., or the table indicated as not compliant for guidance.

01		02		03		04		05		06		07		08	09
System Summary 110.1, 110.2, 140.4, 170.2(c)	AND	Pumps 140.4(k), 170.2(c)4I	AND	Fans/ Economizers 140.4(c), 140.4(e), 170.2(c)	AND	System Controls 110.2, 120.2, 140.4(f), 170.2(c)	AND	Ventilation 120.1, 160.2	AND	Terminal Box Controls 140.4(d), 170.2(c)4B	AND	Distribution 120.3, 140.4(l), 160.2, 160.3	AND	Cooling Towers 110.2(e)2	Compliance Results
(See Table F)		(See Table G)		(See Table H)		(See Table I)		(See Table J)		(See Table K)		(See Table L)		(See Table M)	
	AND		AND		AND		AND	Yes	AND		AND	Yes	AND		COMPLIES with Exceptional Conditions
Mandatory Measures Compliance (See Table Q for Details)									COMPLIES						

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

The permit applicant has indicated on Table J that ventilation calculations have been attached or included elsewhere on the plans.

E. ADDITIONAL REMARKS

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

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

This section does not apply to this project.

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G. PUMPS

This section does not apply to this project.

H. FAN SYSTEMS & AIR ECONOMIZERS

This section does not apply to this project.

I. SYSTEM CONTROLS

This section does not apply to this project.

J. VENTILATION AND INDOOR AIR QUALITY

This table is used to demonstrate compliance with mandatory ventilation requirements in 120.1 120.2(e)3B 140.4(p) and 140.4(q) for all nonresidential and hotel/motel and d:t24refnolink/]160.2, 160.3(a)3D, 170.2(a)4N, 170.2(a)4O for high-rise residential occupancies. For alterations, only ventilation systems being altered within the scope of the permit application need to be documented in this table. In lieu of this table, the required outdoor ventilation rates and airflows may be shown on the plans or the calculations can be presented in a spreadsheet.

01	☒	Check the box if the project is showing ventilation calculations on the plans, or attaching the calculations instead of completing this table.
02	☐	Check this box if the project included Nonresidential, Hotel/Motel Spaces or Multifamily Common Use Spaces
	☐	
03	☐	Check the box if the project is using natural ventilation in any nonresidential or hotel/motel spaces to meet required ventilation rates per 120.1(c)2.

K. TERMINAL BOX CONTROLS

This section does not apply to this project.

L. DISTRIBUTION (DUCTWORK and PIPING)

This table is used to show compliance with mandatory pipe insulation requirements found in 120.3 and mandatory requirements found in 120.4(g) for duct sealing.

01	☐	Insulation shall be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind. Insulation exposed to weather shall be installed with a cover suitable for outdoor service. Insulation covering chilled water piping and refrigerant suction piping located outside the conditioned space shall have a Class I or Class II vapor retarder. All penetrations and joints of which shall be sealed.

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L. DISTRIBUTION (DUCTWORK and PIPING)

Duct Leakage Testing

The answers to the questions below apply to the following duct systems:	New and altered supply and return ductss	**NR/ Common Use:** Duct leakage testing shall not exceed 15% per NA7.5.3 required for these systems?	---
		Dwelling Units: Total duct leakage of duct system shall not exceed 15% or duct system to outside shall not exceed 10% per RA3.1.4 required for systems?	---
		Duct leakage testing per CMC Section 603.9.2 required for these systems?	No

11	No	The scope of the project includes only duct systems serving healthcare facilities
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.
13	Yes	The space conditioning system serves less than 5,000 ft^2 of conditioned floor area.
14	No	The combined surface area of the ducts is more than 25% of the total surface area of the entire duct system:
15	No	The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.
16	No	The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.
17	Yes	All Ductwork and plenums with pressure class ratings shall be constructed to Seal Class A
18	Yes	All ductwork is an extension of an existing duct system
19	No	Ductwork serving individual dwelling unit
20	Yes	< 25 ft of new or replacement space conditioning ducts installed in multifamily occupancy
21	R-8	Duct Insulation R-value
22	Yes	Ductwork Existing To Remain
23	No	Duct System Connected To Altered Space Conditioning System

M. COOLING TOWERS

This section does not apply to this project.

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N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/programs-and-topics/programs/building-energy-efficiency-standards/2022-building-energy-efficiency-4

Form/Title
NRCI-MCH-01-E - Must be submitted for all buildings

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/programs-and-topics/programs/building-energy-efficiency-standards/2022-building-energy-efficiency-4

Form/Title	Systems/Spaces To Be Field Verified
NRCA-MCH-02-A - Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap.	

P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

There are no NRCV forms required for this project.

Q. MANDATORY MEASURES DOCUMENTATION LOCATION

This table is used to indicate where mandatory measures are documented in the plan set or construction documentation.

01		02
Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Block	Yes	Plan sheet or construction document location
		M2.2

Generated Date/Time:

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Project Address:	Date Prepared:	2025-08-20T14:55:37-04:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Tom Harinton	Documentation Author Signature: Tom Harinton
Company: HMD	Signature Date: 8-20-2025
Address: 31165 Temecula Parkway #G3-7	CEA/ HERS Certification Identification (If applicable):
City/State/Zip: Temecula, CA 92592	Phone: 951-428-8775

RESPONSIBLE PERSON'S DECLARATION STATEMENT

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

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name:	Responsible Designer Signature: John Rumsey
Company: MPA Architects	Date Signed: 8-20-2025
Address: 3578 30th Street	License:
City/State/Zip: San Diego, CA 92104	Phone: 619-236-0595

Generated Date/Time:

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2

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31165 TEMECULA PKWY #G3-7 951-428-8775
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E: raulcarrasco@co.imperial.ca.us
Contact: Raul Carrasco

PROJECT

A PROPOSED COMMERCIAL DEVELOPMENT AT:
County Project: SR7117SS Imperial County Department of Social Services
2995 S. 4th Street-Suite 105
El Centro, CA 92243

REVISIONS

NO.	DESCRIPTION	DATE
2	PLAN REVIEW CHANGES	8-24-25

REGISTERED PROFESSIONAL ENGINEER
VICTOR NEUMAN
NO. 23110
Exp. 9/30/2026
MECHANICAL
STATE OF CALIFORNIA

SHEET TITLE

TITLE 24

DATE: 05-17-25	SCALE: AS NOTED
DRAWN BY: TJH	DATABASE:
CHECKED BY: —	SHEET NUMBER:
PROJECT NO: 25115	M3.1

Space Conditioning Mandatory Measures:
110.5 PILOT LIGHTS PROHIBITED FOR NATURAL GAS EQUIPMENT PILOT LIGHTS ARE PROHIBITED ON NATURAL GAS FAN-TYPE CENTRAL FURNACES, POOL HEATERS, SPA HEATERS, AND FIREPLACES.
110.8(a) INSULATION CERTIFICATION INSTALLED INSULATION SHALL BE CERTIFIED BY THE DEPARTMENT OF CONSUMER AFFAIRS PER TITLE 24, PART 12, CHAPTERS 12-13, ARTICLE 3 "STANDARDS FOR INSULATING MATERIAL."
110.8(b) UREA FORMALDEHYDE INSULATION UREA FORMALDEHYDE INSULATION SHALL NOT BE INSTALLED UNLESS IN EXTERIOR SIDE WALLS WITH A FOUR-MIL-THICK PLASTIC POLYETHYLENE VAPOR RETARDER OR EQUIVALENT PLASTIC SHEATHING VAPOR RETARDER INSTALLED BETWEEN THE UREA FORMALDEHYDE FOAM INSULATION AND THE INTERIOR SPACE.
110.8(c) INSULATING MATERIAL ALL INSULATING MATERIALS SHALL BE INSTALLED IN COMPLIANCE WITH THE FLAME SPREAD RATING AND SMOKE DENSITY REQUIREMENTS OF THE CALIFORNIA BUILDING CODE.
110.8(d) DUCTS IF INSULATION IS INSTALLED ON AN EXISTING SPACE-CONDITIONING DUCT, IT SHALL COMPLY WITH SECTION 604.0 OF THE CMC.
120.1(a) GENERAL VENTILATION AND INDOOR AIR QUALITY REQUIREMENTS ALL OCCUPIABLE SPACES IN HOTEL/MOTEL AND NONRESIDENTIAL BUILDINGS OTHER THAN HEALTHCARE SHALL COMPLY WITH APPLICABLE REQUIREMENTS OF §120.1(a) THROUGH (g). THE REQUIRED OUTDOOR AIR VENTILATION RATE AND AIR-DISTRIBUTION SYSTEM DESIGN SHALL BE CLEARLY IDENTIFIED ON THE PLANS.
120.1(c)2 NATURAL VENTILATION NATURALLY VENTILATED SPACES SHALL BE DESIGNED IN ACCORDANCE WITH 120.1(c)2A THROUGH 120.1(c)2C AND INCLUDE A MECHANICAL VENTILATION SYSTEMS DESIGNED IN ACCORDANCE WITH 120.1(c)3.
120.1(c)3 MECHANICAL VENTILATION OCCUPIABLE SPACES SHALL BE VENTILATED WITH A MECHANICAL VENTILATION SYSTEM CAPABLE OF PROVIDING AN OUTDOOR AIRFLOW RATE (Vₒ) TO THE ZONE NO LESS THAN EQUATION 120.1-F.
120.1(d) TIMES OF OCCUPANCY MINIMUM OUTDOOR AIR RATE SHALL BE MET AT TIMES WHEN THE SPACE IS USUALLY OCCUPIED IN ACCORDANCE WITH 120.1(c).
120.1(d)2 PRE-OCCUPANCY THE LESSER OF THE MINIMUM RATE OF OUTDOOR AIR REQUIRED BY SECTION 120.1(c) OR THREE COMPLETE AIR CHANGES SHALL BE SUPPLIED TO THE ENTIRE BUILDING DURING THE 1-HOUR PERIOD IMMEDIATELY BEFORE THE BUILDING IS NORMALLY OCCUPIED.
120.1(d)3 REQUIRED DEMAND CONTROL VENTILATION DCV CONTROLS ARE REQUIRED FOR A SPACE WITH A DESIGN OCCUPANCY DENSITY >= 25 PEOPLE/1,000 FT2 IF THE SYSTEM SERVING THE SPACE HAS ONE OR MORE OF THE FOLLOWING • AN AIR ECONOMIZER • MODULATING OUTSIDE AIR CONTROL • DESIGN OUTDOOR AIRFLOW RATE > 3,000 CFM
120.1(f) DESIGN AND CONTROL REQUIREMENTS FOR QUANTITIES OF OUTDOOR AIR

Space Conditioning Mandatory Measures:
120.1(f)1 ALL MECHANICAL VENTILATION AND SPACE-CONDITIONING SYSTEMS SHALL BE DESIGNED WITH AND HAVE INSTALLED DUCTWORK, DAMPERS, AND CONTROLS TO ALLOW OA RATES TO BE OPERATED AT NO LESS THAN THE LARGER OF: 120.1(c)3 MINIMUMS OR THE RATE REQUIRED FOR MAKE-UP OF EXHAUST SYSTEMS FOR AN EXEMPT OR COVERED PROCESS, CONTROL OF ODORS, OR CONTAMINANT REMOVAL IN A SPACE.
120.1(g) AIR CLASSIFICATION AND RECIRCULATION LIMITATIONS AIR CLASSIFICATION AND RECIRCULATION LIMITATIONS OF AIR SHALL BE BASED ON TABLE 120.1-A OR TABLE 120.1-C, AND IN ACCORDANCE WITH 120.1(g)1 THROUGH 4.
120.4 AIR DISTRIBUTION SYSTEM DUCTS AND PLENUMS PORTIONS OF SUPPLY- AND RETURN-AIR DUCTS CONVEYING HEATED OR COOLED AIR LOCATED IN ONE OR MORE OF THE FOLLOWING SPACES SHALL BE INSULATED TO A MINIMUM INSTALLED LEVEL OF R-8: • OUTDOORS • IN A SPACE BETWEEN THE ROOF AND AN INSULATING CEILING • IN A SPACE DIRECTLY UNDER A ROOF WITH FIXED VENTS OR OPENINGS TO THE OUTSIDE OR UNCONDITIONED SPACES • UNCONDITIONED SPACES, SUCH AS UNCONDITIONED CRAWLSPACE PORTIONS OF SUPPLY-AIR DUCTS THAT ARE NOT IN ONE OF THESE SPACES, INCLUDING DUCTS BURIED IN CONCRETE SLAB, SHALL BE INSULATED TO A MINIMUM INSTALLED LEVEL OF R-4.2 (OR ANY HIGHER LEVEL REQUIRED BY CMC 605.0), OR BE ENCLOSED IN DIRECTLY CONDITIONED SPACE.

Space Conditioning Mandatory Measures:

120.4(b) DUCT AND PLENUM MATERIALS
120.4(b) FACTORY-FABRICATED DUCT SYSTEMS MUST:
• COMPLY WITH UL 181 FOR DUCTS AND CLOSURE SYSTEMS AND BE LABELED AS COMPLYING WITH UL 181
• ALL PRESSURE SENSITIVE TAPES, HEAT ACTIVATED TAPES, AND MASTICS USED IN MANUFACTURE OF RIGID FIBERGLASS DUCTS SHALL COMPLY WITH UL 181 AND UL 181A
• ALL PRESSURE SENSITIVE TAPES, AND MASTICS USED IN MANUFACTURE OF FLEXIBLE DUCTS SHALL COMPLY WITH UL 181 AND L 181B
• JOINTS AND SEAMS SHALL NOT BE SEALED WITH CLOTH BACK RUBBER ADHESIVE DUCT TAPES UNLESS COMBINED WITH MASTICS AND DRAWBANDS.
FIELD-FABRICATED DUCT SYSTEMS:
• FACTORY-MADE RIGID FIBERGLASS AND FLEXIBLE DUCTS FOR FIELD-FABRICATED DUCT SYSTEMS SHALL COMPLY WITH UL 181. ALL CLOSURE SYSTEMS, INCLUDING PRESSURE SENSITIVE TAPES, MASTICS, AND AEROSOL SEALANTS, SHALL MEET THE APPLICABLE REQUIREMENTS OF UL 181, UL 181A AND UL 181B.
• MASTIC SEALANTS SHALL:
  ▪ COMPLY WITH APPLICABLE REQUIREMENTS OF UL 181, UL 181A, AND UL 181B AND BE NONTOXIC AND WATER RESISTANT.
  ▪ PASS ASTM C731 AND D2202, IF USED IN BUILDING INTERIOR,
  ▪ PASS ASTM C731, C732, AND D2202, IF USED ON EXTERIOR.
  ▪ SEALANTS AND MESHES SHALL BE RATED FOR EXTERIOR USE.
• PRESSURE SENSITIVE TAPES SHALL COMPLY WITH APPLICABLE REQUIREMENTS IN UL 181, UL 181A, AND UL 181B.
• JOINTS AND SEAMS SHALL NOT BE SEALED WITH CLOTH BACK RUBBER ADHESIVE DUCT TAPES UNLESS COMBINED WITH MASTICS AND DRAWBANDS.
• DRAWBANDS USED WITH FLEXIBLE DUCTS SHALL:
  ▪ BE EITHER STAINLESS STEEL WORM-DRIVE HOSE CLAMPS OR UV-RESISTANT NYLON DUCT TIES
  ▪ HAVE A MINIMUM TENSILE STRENGTH RATING OF 150 LBS.
  ▪ BE TIGHTENED AS RECOMMENDED BY THE MANUFACTURER
• AEROSOL SEALANT CLOSURES SHALL:
  ▪ MEET REQUIREMENTS OF UL 723 AND BE APPLIED ACCORDING TO MANUFACTURER SPECIFICATIONS
  ▪ TAPES OR MASTICS USED IN COMBINATION WITH AEROSOL SEALING SHALL COMPLY WITH APPLICABLE REQUIREMENTS OF UL 181, UL 181A, AND UL 181B, ASTM C731, C732 AND D2202.

120.4(c) ALL DUCT INSULATION PRODUCT R-VALUES SHALL BE BASED ON INSULATION ONLY AND TESTED IN ACCORDANCE WITH ASTM C518 OR ASTM C177 AND CERTIFIED PER §110.8.
120.4(d) INSTALLED THICKNESS OF DUCT INSULATION USED TO DETERMINE ITS R-VALUE SHALL BE DETERMINED AS FOLLOWS: • DUCT BOARD, LINER, AND FACTORY-MADE RIGIDS: USE NOMINAL INSULATION THICKNESS • DUCT WRAP: USE 75% (25% COMPRESSION) OF NOMINAL THICKNESS • FACTORY-MADE FLEXIBLE AIR DUCTS: DIVIDE THE DIFFERENCE BETWEEN THE ACTUAL OUTSIDE DIAMETER AND NOMINAL INSIDE DIAMETER BY TWO.
120.4(e) INSULATED FLEXIBLE DUCT PRODUCTS INSTALLED TO MEET THIS REQUIREMENT MUST INCLUDE LABELS (MAX INTERVALS OF 3 FT) SHOWING THERMAL RESISTANCE PERFORMANCE R-VALUE FOR THE DUCT INSULATION ITSELF BASED ON TESTS IN 120.4(c). AND INSTALLED THICKNESS DETERMINED BY 120.4(d)3.

Space Conditioning Mandatory Measures:
120.4(f) PROTECTION OF INSULATION INSULATION SHALL BE PROTECTED FROM DAMAGE BY SUNLIGHT, MOISTURE, EQUIPMENT MAINTENANCE AND WIND. CELLULAR FOAM INSULATION SHALL BE PROTECTED, OR BE PAINTED WITH A WATER RETARDANT COATING THAT PROVIDES SHIELDING FROM SOLAR RADIATION.

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Contact: Raul Carrasco

PROJECT

A PROPOSED COMMERCIAL DEVELOPMENT AT:
County Project: SR7117SS Imperial County Department of Social Services
2995 S. 4th Street Suite 105
El Centro, CA 92243

REVISIONS

NO.	DESCRIPTION	DATE
2	PLAN REVIEW CHANGES	8-24-25

REGISTERED PROFESSIONAL ENGINEER
VICTOR NEUMANN
NO. 23110
Exp. 9/30/2026
MECHANICAL
STATE OF CALIFORNIA

SHEET TITLE
TITLE 24

DATE: 05-17-25	SCALE: AS NOTED
DRAWN BY: TJH	DATABASE:
CHECKED BY: —	SHEET NUMBER: M3.2
PROJECT NO: 25115	

ADDITIONAL ELECTRICAL NOTES

1) ALL ELECTRICAL EQUIPMENT SHALL BE LISTED BY CITY OF EL CENTRO RECOGNIZED ELECTRICAL TESTING UL LABORATORY OR APPROVED BY THE CITY OF EL CENTRO DEPARTMENT

2) ALL LIGHTING CONTROL DEVICES AND EQUIPMENT SHALL BE CERTIFIED BY THE CALIFORNIA ENERGY COMISSION.

3) ALL EQUIPMENT FASTENED IN PLACE OR CONNECTED BY PERMANENT WIRING METHOD SHALL BE GROUNDED.

4) ALL ELECTRICAL WORK SHALL COMPLY WITH THE 2020 N.E.C. AS AMENDED BY THE 2022 C.E.C.

5) THE MEANS OF EGRESS, THE INCLUDING THE EXIT DISCHARGE, WILL BE ILLUMINATED TO A LEVEL OF NOT LESS THAN ONE FOOT-CANDLE AT THE WALKING SURFACE AT ALL TIMES THE BUILDING SPACE SERVED BY MEANS OF EGRESS IS OCCUPIED. CEC 1006.1, 1006.2.

6) EXIT SIGNS SHALL BE INTERNALLY OR EXTERNALLY ILLUMINATED AT ALL TIMES. EXTERNALLY ILLUMINATED EXIT SIGNS SHALL BE CONNECTED TO AN EMERGENCY POWER SYSTEM (BATTERIES, UNIT EQUIPMENT OR AN ON-SITE GENERATOR) THAT WILL AUTOMATICALLY ILLUMINATE THE EXIT SIGNS FOR A DURATION OF NOT LESS THAN 90 MINUTES IN CASE OF PRIMARY POWER LOSS. CBC 1011.

LUMINAIRE SCHEDULE – INTERIOR

TYPE	MTG.	LAMP #	LAMP CODE WATT/LUMENS COLOR	LUMINAIRE DESCRIPTION	MANUFACTURER & CATALOG NUMBER	INPUT WATTS, VOLTS	REF. NOTES	REF. SYMBOLS
A	REC	1	31W LED 3500K	2X4 RECESSED CENTER BASKET LED TROFFER	COLUMBIA #LCAT24-MLG-EDU (OR APPROVED EQUAL)	31W 120V	(1)	
EM	WALL SURF	2	2W LED 3500K	2-HEAD EMERGENCY EGRESS LIGHT WITH 90 MIN. BATTERY PACK	DUA-LITE #EV4D-02L	4W 120V	(1)(2)	

(1) PROVIDE WITH 0-10° DIMMING LED DRIVER

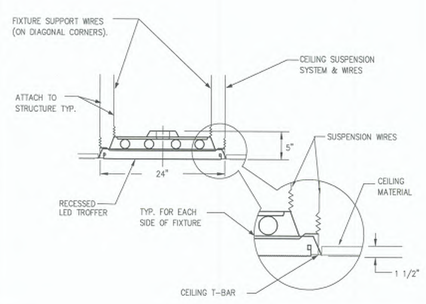
(2) PROVIDE WITH 90 MIN. BATTERY PACK

T-24 CONTROL LEGEND

M	WALL MTD OCCUPANCY SENSOR WITH SWITCH PER T-24

NOTE: T-24 CONTROLS SHOWN AS GENERIC SYSTEM AND MANUFACTURE PREFFERED BY E.C. CAN BE USED AS LONG AS T-24 STANDARDS ARE MET. THIS INCLUDES WIRELESS TYPE SYSTEM.

LIGHTING FIXTURE MOUNTING DETAIL



ELECTRICAL LEGEND

NOTE: SEE LUMINAIRE SCHEDULE FOR LIGHTING SYMBOLS.

- RECESSED PANEL
- $a,b SPST TOGGLE SWITCH +48" TO TOP OF BOX, LETTERS INDICATE FIXTURE TO BE CONTROLLED.
- $3a THREE-WAY SWITCH @ +48" TO TOP OF BOX U.O.N.
- CONVENIENCE DUPLEX OUTLET BOX @ 15" TO BOTTOM OF BOX A.F.F. – U.O.N.
- CONVENIENCE DUPLEX OUTLET BOX @ +15" TO BOTTOM A.F.F. – U.O.N.– 1/2 HOT & 1/2 SWITCHED.
- FOURPLEX CONVENIENCE OUTLET BOX @ 15" TO BOTTOM A.F.F. – U.O.N.
- F FUSED DISCONNECT SWITCH
- J JUNCTION BOX WITH FLEX CONNECTION
- WALL MTD. DATA OUTLET BOX @ 15" AFF
- 3P, 200, 100, RK1 NO. OF POLES, SWITCH SIZE, AMPS, FUSE SIZE, AMPS, FUSE CLASS TYPE
- 3 A-2,4 BRANCH CIRCUIT HOME-RUN WITH PANEL & CIRCUIT DESIGNATION. HASH MARKS INDICATE NO. OF #12 WIRE U.O.N.
- T TELEPHONE SYSTEM CONDUIT WITH PULL-ROPE
- E EMERGENCY SYSTEM CONDUIT & WIRING
- CONDUIT WITH #12 WIRE, EACH TICK INDICATES ONE #12 WIRE.
- A LIGHT FIXTURE DESIGNATION. SEE LIGHT FIXTURE SCHEDULE.
- TV TV OUTLET BOX WITH COAX AT 15" TO BOTTOM AFF. PROVIDE COAX TO EACH JACK.
- SPECIAL PURPOSE RECEPTACLE, SIZE PER PANEL.
- F EXHAUST FAN
- TELE. OUTLET BOX AT 15" TO BOTTOM AFF (U.O.N) PROVIDE TWO LINES AT EACH PHONE JACK.
- DOOR BELL, ILLUMINATED
- T LV X'FMR
- C CHIME
- S SMOKE DETECTOR
- CO CARBON MONOXIDE SENSOR
- 2-HEAD EMERGENCY EGRESS LIGHT WITH 90 MIN. BATTERY PACK

4W	4-WIRE
A,AMPS	AMPERES
A.F.F.	ABOVE FINISHED FLOOR
A.I.C.	AMPERE INTERRUPTING CAPACITY
B.C.	BARE COPPER
C., COND	CONDUIT
C.O.	CONDUIT ONLY
C/B	CIRCUIT BREAKER
CKT	CIRCUIT
CONN	CONNECTED
CORR.	CORRIDOR
	COPPER
ELECT.	ELECTRICAL
EXH/EF	EXHAUST
EXTER.	EXTERIOR
GFI CU	GROUND FAULT INTERRUPTING
GND.	GROUND
LTG.	LIGHTING
M.P.	MULTI-PURPOSE
M/C	MACHINE
MECH.	MECHANICAL
MTD.	MOUNTED
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
	POLE
PH,~	PHASE
PNL	PANEL
RECEP.	RECEPTACLE
RM. P	ROOM
TOIL..	TOILET
TYP.	TYPICAL
U.O.N.	UNLESS OTHERWISE NOTED
U/G	UNDER GROUND
W,WATT	WATTAGE
W.P.	WEATHERPROOF

- M WALL MOUNTED OCCUPANCY SENSOR, SEE OCCUPANCY SENSOR SCHEDULE
- M ab DUAL LEVEL OCCUPANCY SENSOR WALL MOUNTED, SEE OCCUPANCY SENSOR SCHEDULE
- M ab DUAL LEVEL OCCUPANCY SENSOR CLG MOUNTED, SEE OCCUPANCY SENSOR SCHEDULE
- P POWER PACK FOR CLG MOUNTED OCCUPANCY SENSOR, SEE OCCUPANCY SENSOR SCHEDULE
- SFD SMOKE FIRE DAMPER
- $T DELAY TIMER SWITCH
- EM DENOTES EGRESS LIGHTING PROVIDED WITH 90 MINUTE EMERGENCY BATTERY BACK-UP
- V VACANCY SENSOR SWITCH
- AFCI ALL 120V, SINGLE PHASE, 15A & 20A BRANCH CIRCUITS SUPPLYING OUTLETS OR DEVICES INSTALLED IN DWELLING UNIT KITCHENS, FAMILY ROOMS, DINING ROOM, LIVING ROOMS, PARLOR, LIBRARIES, DENS, BEDROOMS, SUN ROOMS, REC ROOMS, CLOSETS, HALLWAYS, LAUNDRY OR SIMILAR SHALL BE PROTECTED BY AFCI BY CEC 210.12(A)-(6).

GENERAL NOTES

1. ALL ELECTRICAL MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL BE LISTED BY UNDERWRITER'S LABORATORIES AND BEAR THEIR LABEL, OR LISTED AND CERTIFIED BY A NATIONALLY RECOGNIZED TESTING AUTHORITY WHERE UL DOES NOT HAVE A LISTING. CUSTOM MADE EQUIPMENT MUST HAVE COMPLETE TEST DATA SUBMITTED BY THE MANUFACTURER ATTESTING TO ITS SAFETY.
2. THE CONTRACTOR SHALL VISIT THE SITE INCLUDING ALL AREAS INDICATED ON THE DRAWINGS. HE SHALL THOROUGHLY FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS AND BY SUBMITTING A BID ACCEPTS CONDITIONS UNDER WHICH HE SHALL BE REQUIRED TO PERFORM HIS WORK.
3. IT SHALL BE THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO OBTAIN A COMPLETE SET OF DRAWINGS AND SPECIFICATIONS. HE SHALL CHECK THE DRAWINGS OF THE OTHER TRADES AND SHALL CAREFULLY READ THE ENTIRE SPECIFICATIONS AND DETERMINE HIS RESPONSIBILITIES. FAILURE TO DO SO SHALL NOT RELEASE THE CONTRACTOR FROM DOING THE WORK IN COMPLETE ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS.
4. THE CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS AND FEES NECESSARY FOR EXECUTION AND COMPLETION OF ELECTRICAL WORK, INCLUDING ALL CHARGES BY THE LOCAL GOVERNMENT AGENCIES.
5. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES AT THE SITE. ANY COST TO ROUTE CONDUIT OTHER THAN AS SHOWN ON THE PLANS SHALL BE INCURRED BY THE CONTRACTOR.
6. ALL INTERRUPTION OF ELECTRICAL LINES SHALL BE KEPT TO MINIMUM. HOWEVER, WHEN AN INTERRUPTION IS NECESSARY, THE SHUTDOWN MUST BE COORDINATED WITH THE POWER COMPANY AND THE OWNER.
7. ALL FINAL CONNECTIONS TO OWNER-FURNISHED EQUIPMENT SHALL BE MADE BY THE CONTRACTOR.
8. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DO ALL CORING, SAW CUTTING, PATCHING, AND REFINISHING OF EXISTING WALLS AND SURFACES WHEREVER IT IS NECESSARY FOR HIM TO PENETRATE FOR HIS WORK. ALL OPENINGS SHALL BE SEALED TO MEET THE FIRE RATINGS OF THE PARTICULAR WALL, FLOOR OR CEILING.
9. WHEREVER A DISCREPENCY EXISTS IN QUANTITY OR SIZE OF CINDUIT, WIRE, EQUIPMENT, DEVICES, CIRCUIT BREAKERS, TRANSFORMERS, ETC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL MATERIALS AND SERVICES REQUIRED BY THE STRICTEST CONDITIONS NOTED ON THE DRAWINGS AND/OR IN THE SPECIFICATIONS TO ENSURE COMPLETE AND OPERABLE SYSTEMS AS REQUIRED BY THE OWNER AND THE ARCHITECT.
10. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE TYPE OF CEILING SYSTEMS AND TO FURNISH APPROVED LIGHTING FIXTURES OF THE TYPE REQUIRED FOR MOUNTING IN SUBJECT CEILINGS. WHERE FIXTURES ARE RECESSED IN PLASTER CEILINGS, THEY SHALL BE COMPLETE WITH THE NECESSARY MOUNTING HARDWARE AND PLASTER FRAMES.
11. EXACT LOCATIONS OF ALL CEILING MOUNTED LIGHTING FIXTURES AND DEVICES SHALL BE AS INDICATED ON THE ARCHITECTURAL REFLECTED CEILING PLANS. ALL OUTLET LOCATIONS SHALL BE COORDINATED WITH THE ARCHITECTURAL ELEVATIONS PRIOR TO ROUGH-IN.
12. ALL ELECTRICAL WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NEC), AND ALL OTHER LOCAL AND STATE CODES HAVING JURISDICTION.
13. ALL CONDUCTORS SHALL BE COPPER TYPE THHN/THWN UNLESS OTHERWISE SPECIFIED ON DRAWINGS. SUBFEEDS SHALL BE ALUMINUM TO PANELS.
14. METALLIC WIRING METHODS SHALL BE USED THROUGHOUT THE BUILDING, IE: EMT, NC, METAL FLEX, ETC. WIRING METHODS WITHIN LIVING UNITS SHALL BE NON-METALLIC IE: ROMEX, SER, ETC.
15. MAIN METERING AND DISTRIBUTION GEAR SHALL COMPLY WITH LOCAL POWER COMPANY, NEC, UL AND LOCAL AUTHORITIES HAVING JURISDICTION PRIOR TO INSTALLATION.
16. THE ELECTRICAL CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS OF SERVICE POINTS WITH SERVING UTILITY COMPANIES AND COMPLY WITH ALL REQUIREMENTS WITH UTILITY COMPANIES.
17. ALL SYSTEMS AND EQUIPMENT GROUNDS TO BE INSTALLED IN STRICT ACCORDANCE WITH ALL 2011 AND 2017 CEC/ NEC AND LOCAL CODE REQUIREMENTS.
18. THE ELECTRICAL CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS OF ALL A/C AND/OR MECHANICAL CONTRACTOR AND DRAWINGS PRIOR TO INSTALLATION. VERIFY AND INCLUDE IN BID ALL PROVISIONS FOR PIPE, WIRE, CONTROLS, STARTERS, DISCONNECTS AND ALL NECESSARY CONNECTIONS FOR A COMPLETE WORKING SYSTEM.
19. VERIFY INTERRUPTING CAPACITIES WITH LOCAL POWER COMPANY AND PROVIDE ALL SWITCH GEAR AS REQUIRED PER THEIR REQUIRMENTS. PROVIDE AND SUBMIT MANUFACTURE DRAWINGS OF ALL SWITCHGEAR TO LOCAL POWER COMPANY AND ENGINEER FOR APPROVAL.
20. ALL RECESSED LIGHTS UNDER INSULATION MUST BE IC RATED. ALL LIGHTING SHALL BE LED.
21. IN CALIFORNIA, IF A FIRE ALARM SYSTEM IS REQUIRED, IT SHALL ACTIVATE A MEANS OF WARNING THE HEARING IMPAIRED. CBC SECTION 1007.12.
22. NEC OUTLET DEFINITION.
OUTLET: A POINT ON THE WIRING SYSTEM AT WHICH CURRENT IS TAKEN TO SUPPLY UTILIZATION EQUIPMENT.
23. ALL EXTERIOR OUTLETS SHALL USE COVER IDENTIFIED AS "EXTRA DUTY" THAT IS WEATHER-PROOF WHETHER OR NOT THE PLUG IS INSERTED.

SHEET INDEX

SCOPE OF WORK

- REMODEL POWER AND LIGHTING AT ENTRY INTERVIEW ROOMS.

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PROJECT

NEW INTERVIEW ROOMS AT
Imperial County Department of Social Services
2995 S. 4th Street- Suite 105
El Centro, CA 92243
County Project: SR7117SS

REVISIONS

NO.	DESCRIPTION	DATE
2	PLAN CHECK COMMENTS	8/4/25

LICENSED ARCHITECT JOHN RUMSEY No. C-26819 Exp. 3-31-2026 STATE OF CALIFORNIA

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PLOT DATE 09/04/25

SHEET TITLE

ELECTRICAL LEGEND AND NOTES

DATE:	04-24-25	SCALE:	AS NOTED
DRAWN BY:	CB	DATABASE:	25115.DWG
CHECKED BY:	JR	SHEET NUMBER:	E0.1
PROJECT NO.	25115		

(EXIST'G PANEL TO REMAIN)

VOLTS 120/208 | PHASE 3 | WIRE 4 | C.B. A.I.C. 10,000 SERIES RATED

"A21"

FEEDER EXIST'G TO REMAIN

MAINS LUGS ONLY | BUS 200A | BUS SCCR 42K | MOUNTING FLUSH

LOCATION	WATTAGE PH.A	WATTAGE PH.B	WATTAGE PH.C	LTG	REC	MIS	CIR	BKR		BKR	CIR	MIS	REC	LTG	WATTAGE PH.A	WATTAGE PH.B	WATTAGE PH.C	LOCATION
RECEPT RM	1080						1	20/1		20/1	2				1080			RECEPT RM
RECEPT RM		1080					3	20/1		20/1	4					1080		RECEPT RM
RECEPT RM			1080				5	20/1		20/1	6						1080	RECEPT RM
* RECEPT RM-REVISED	1080						7	20/1		20/1	8				1080			RECEPT RM
* RECEPT RM-REVISED		1080					9	20/1		20/1	10					1080		RECEPT RM
* RECEPT RM-REVISED			1080				11	20/1		20/1	12						1080	RECEPT RM
* RECEPT RM-REVISED	1080						13	20/1		20/1	14				1080			RECEPT RM
* RECEPT RM-REVISED		1080					15	20/1		20/1	16					1080		RECEPT RM
RECEPT RM			1080				17	20/1		20/1	18						1080	RECEPT RM
RECEPT RM	1080						19	20/1		20/1	20				1080			RECEPT RM
RECEPT RM		1080					21	20/1		20/1	22					1080		WTR HR RM 413
RECEPT RM			1080				23	20/1		20/1	24							WTR HR RM 417
RECEPT RM	1080						25	20/1		20/1	26							SPARE
RECEPT RM		1080					27	20/1		20/1	28					750		WKR ST RM 403
RECEPT RM			1080				29	20/1		20/1	30						750	WKR ST RM 403
RECEPT RM	1080						31	20/1		20/1	32							SPARE
WORK STATION		750					33	20/1		20/1	34							SPARE
WORK STATION			750				35	20/1			36							SPARE
							37				38							
							39				40							
							41				42							

TOTAL PH.A 10800 | PH.B 11640 | PH.C 11640

TOTAL WATTS 34080 | AMPS 94.6 + 9.6LCL = 105.1 | LCL AMPS -0-

*: ASTERISK DENOTES REVISED EXIST'G CIRCUIT IN EXIST'G PANEL. (2)

(EXIST'G PANEL TO REMAIN)

VOLTS 277/480 | PHASE 3 | WIRE 4 | C.B. A.I.C. 42,000 SERIES RATED

"A4"

FEEDER EXIST'G TO REMAIN

MAINS LUGS ONLY | BUS 1000A | BUS SCCR 42K | MOUNTING FLUSH

LOCATION	WATTAGE PH.A	WATTAGE PH.B	WATTAGE PH.C	LTG	REC	MIS	CIR	BKR		BKR	CIR	MIS	REC	LTG	WATTAGE PH.A	WATTAGE PH.B	WATTAGE PH.C	LOCATION
LTS RM	3120						1	20/1		20/1	2				3120			LTS
LTS RM		3120					3	20/1		20/1	4					3120		LTS
LTS RM			3120				5	20/1		20/1	6						3120	LTS
LTS RM	3120						7	20/1		20/1	8				3120			LTS
LTS RM		3120					9	20/1		20/1	10					3120		LTS
* LTS RM - REVISED			1271				11	20/1		20/1	12						3120	LTS
LTS RM	3120						13	20/1		20/1	14				3120			LTS
SPARE		0					15	20/1		20/	16					0		GATE MOTORS
SPARE			0				17	20/1		/ 2	18						0	RECEPT RM
A/C EXIST'G	36000						19	200/		200/	20				36000			AIC EXIST'G
A/C EXIST'G		36000					21	/		/	22					36000		AIC EXIST'G
A/C EXIST'G			36000				23	/ 1		/ 1	24						36000	AIC EXIST'G
150KVA TRANSF.	32500						25	225/		225/	26				32500			150 KVA TRANSF
150KVA TRANSF.		32500					27	/		/	28					32500		150 KVA TRANSF
150KVA TRANSF.			32500				29	/ 1		/ 1	30						32500	150 KVA TRANSF
							31				32							SPARE
							33				34							SPARE
							35				36							SPARE
							37				38							
							39				40							
							41				42							

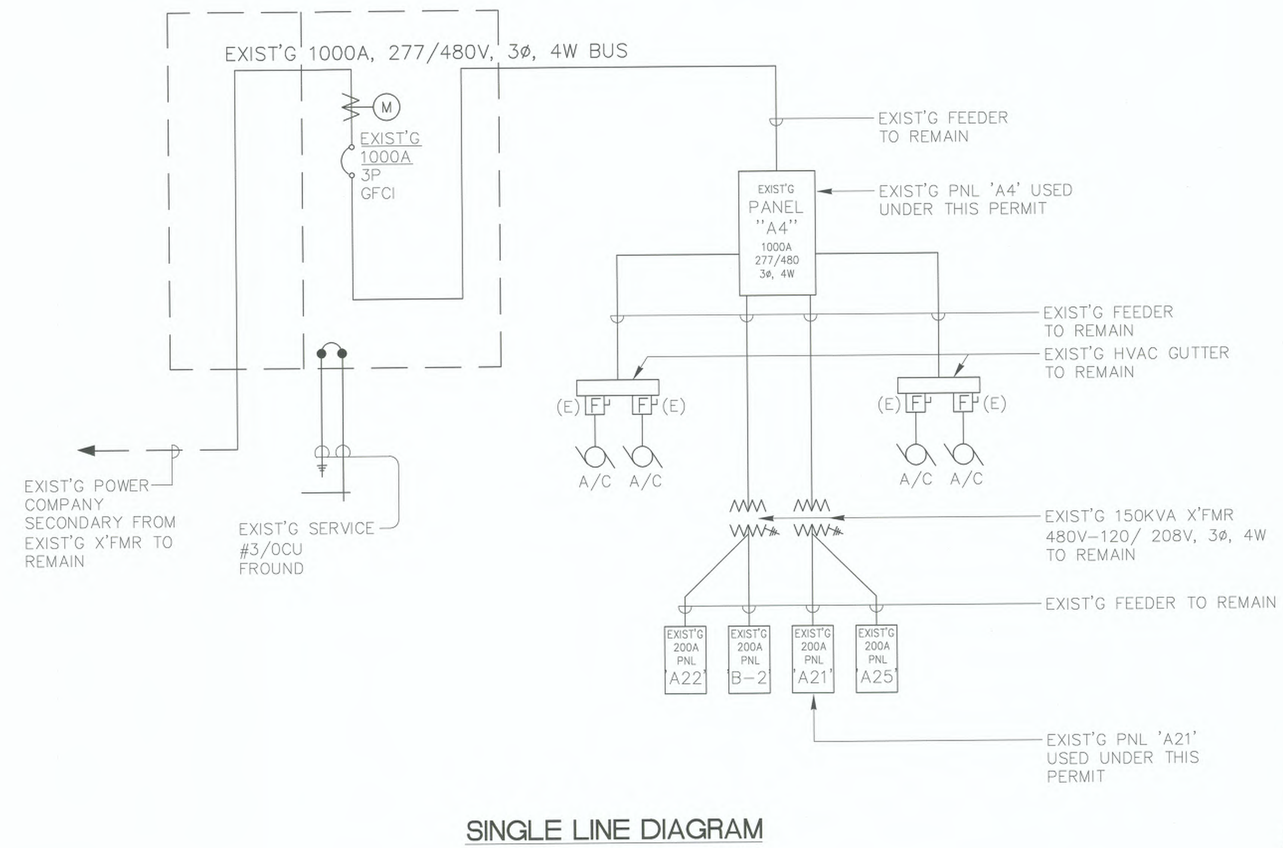
TOTAL PH.A 155720 | PH.B 149480 | PH.C 147631

TOTAL WATTS 452831 | AMPS 543.3 + 32.5LCL = 575.8 | LCL AMPS 32.5

*: ASTERISK DENOTES REVISED EXIST'G CIRCUIT IN EXIST'G PANEL. (2)

MAIN SW. BD. & METER "MSB"

W.P. NEMA 3R EQUIPMENT



SINGLE LINE DIAGRAM

NOT TO SCALE

PLOT DATE 09/04/25

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PROJECT

NEW INTERVIEW ROOMS AT
Imperial County Department of Social Services
2995 S. 4th Street- Suite 105
El Centro, CA 92243
County Project: SR7117SS

REVISIONS

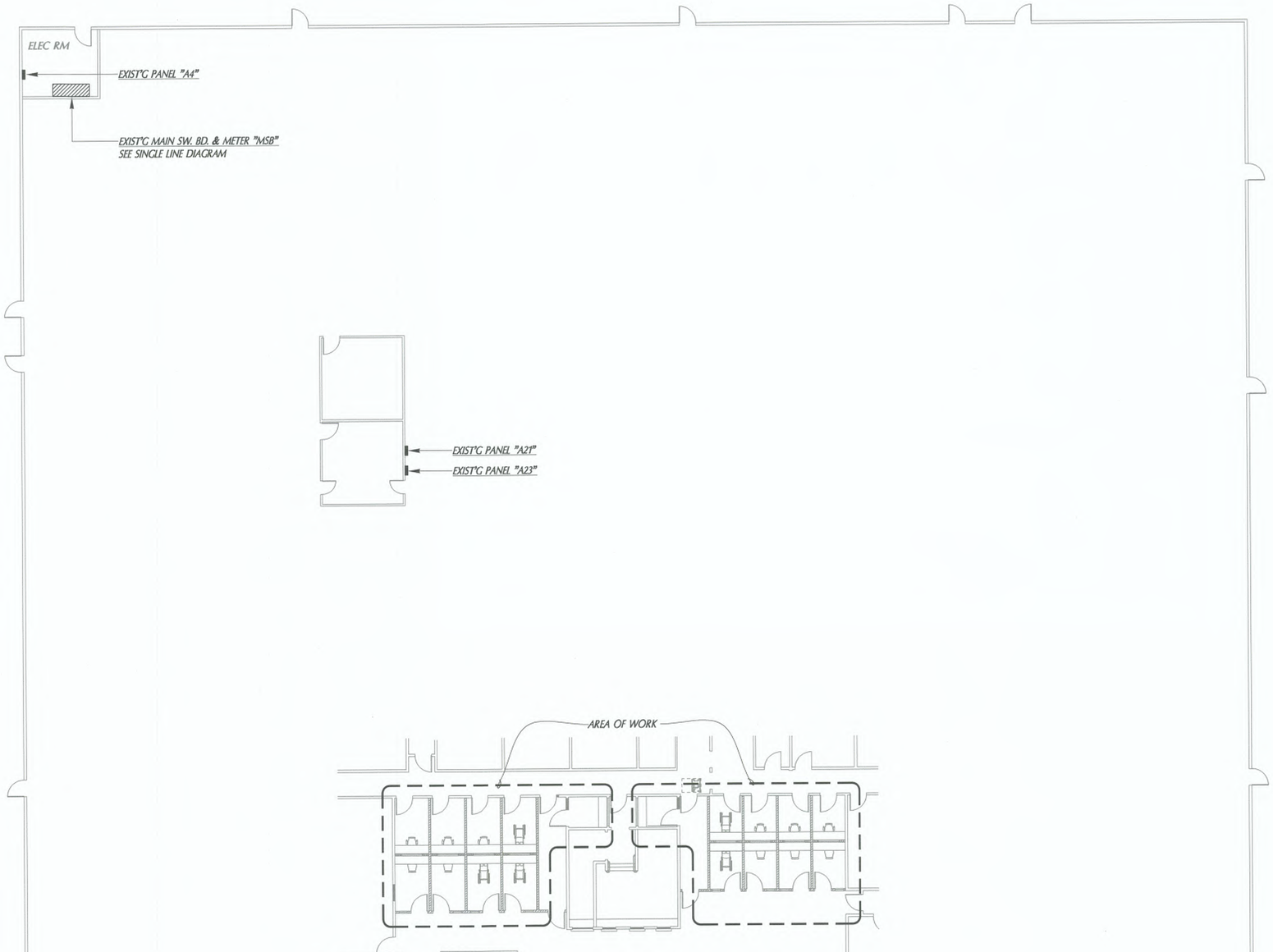
NO.	DESCRIPTION	DATE
2	PLAN CHECK COMMENTS	8/4/25

LICENSED ARCHITECT JOHN R. UM SEN C-26813 Exp. 3-31-2026 STATE OF CALIFORNIA

SHEET TITLE

ELECTRICAL SINGLE LINE, PANEL & CALC'S

DATE: 04-24-25	SCALE: AS NOTED
DRAWN BY: CB	DATABASE: 25115.DWG
CHECKED BY: JR	SHEET NUMBER: E0.2
PROJECT NO: 25115	



ELECTRICAL FIRST FLOOR PLAN

SCALE: 3/32" = 1' - 0"

N

PLOT DATE: 09/04/25

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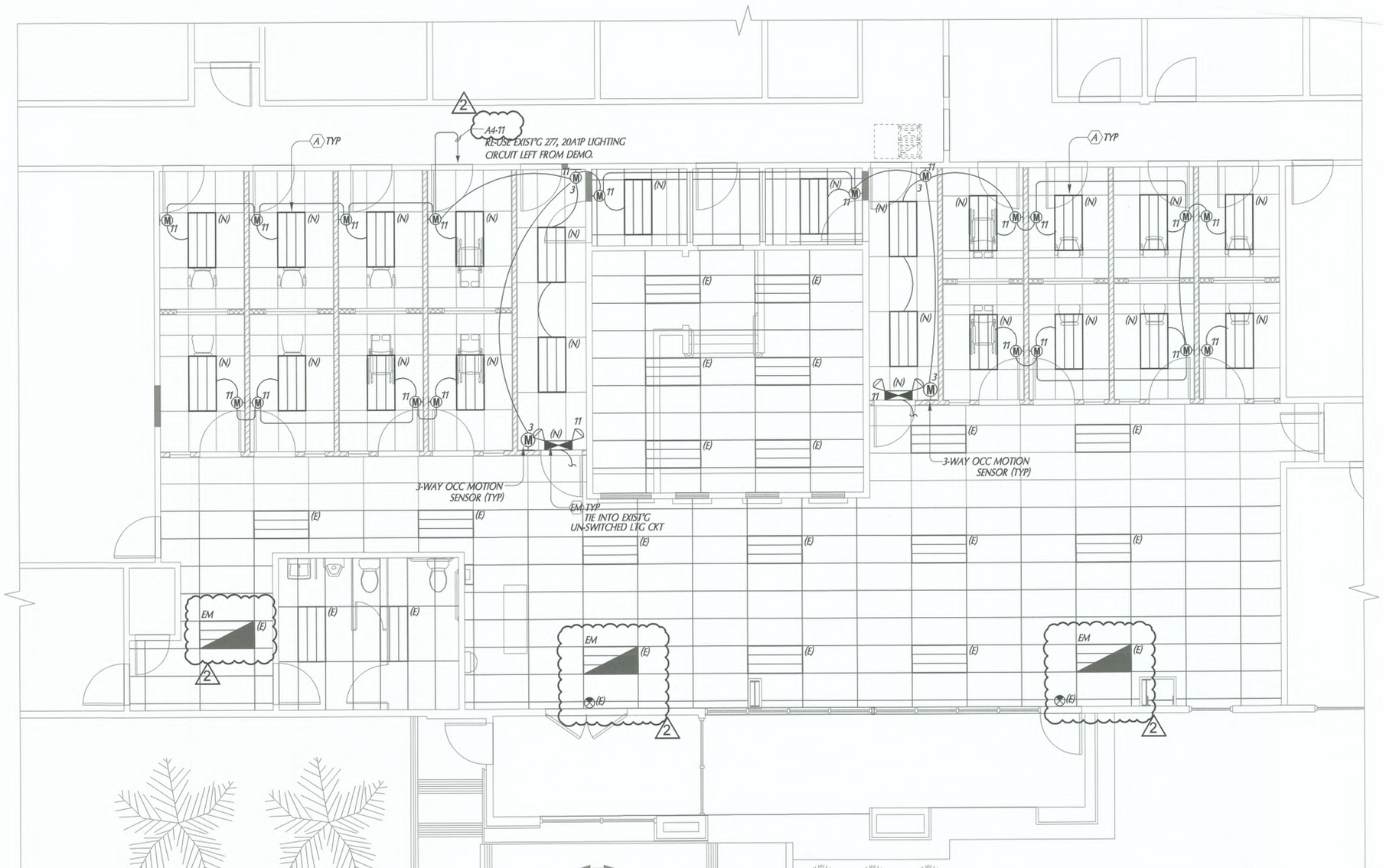
NO.	DESCRIPTION	DATE
2	PLAN CHECK COMMENTS	8/4/25

LICENSED ARCHITECT
JOHN RUMSEY
C-26813
Exp. 3-31-2026
STATE OF CALIFORNIA

SHEET TITLE

ELECTRICAL FIRST FLOOR PLAN

DATE: 04-24-25	SCALE: AS NOTED
DRAWN BY: CB	DRAWING: 25115.DWG
CHECKED BY: JR	SHEET NUMBER: **E1.0**
PROJECT NO.: 25115	



ELECTRICAL FIRST FLOOR LIGHTING PLAN

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

N

PLOT DATE: 08/04/25

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REVISIONS

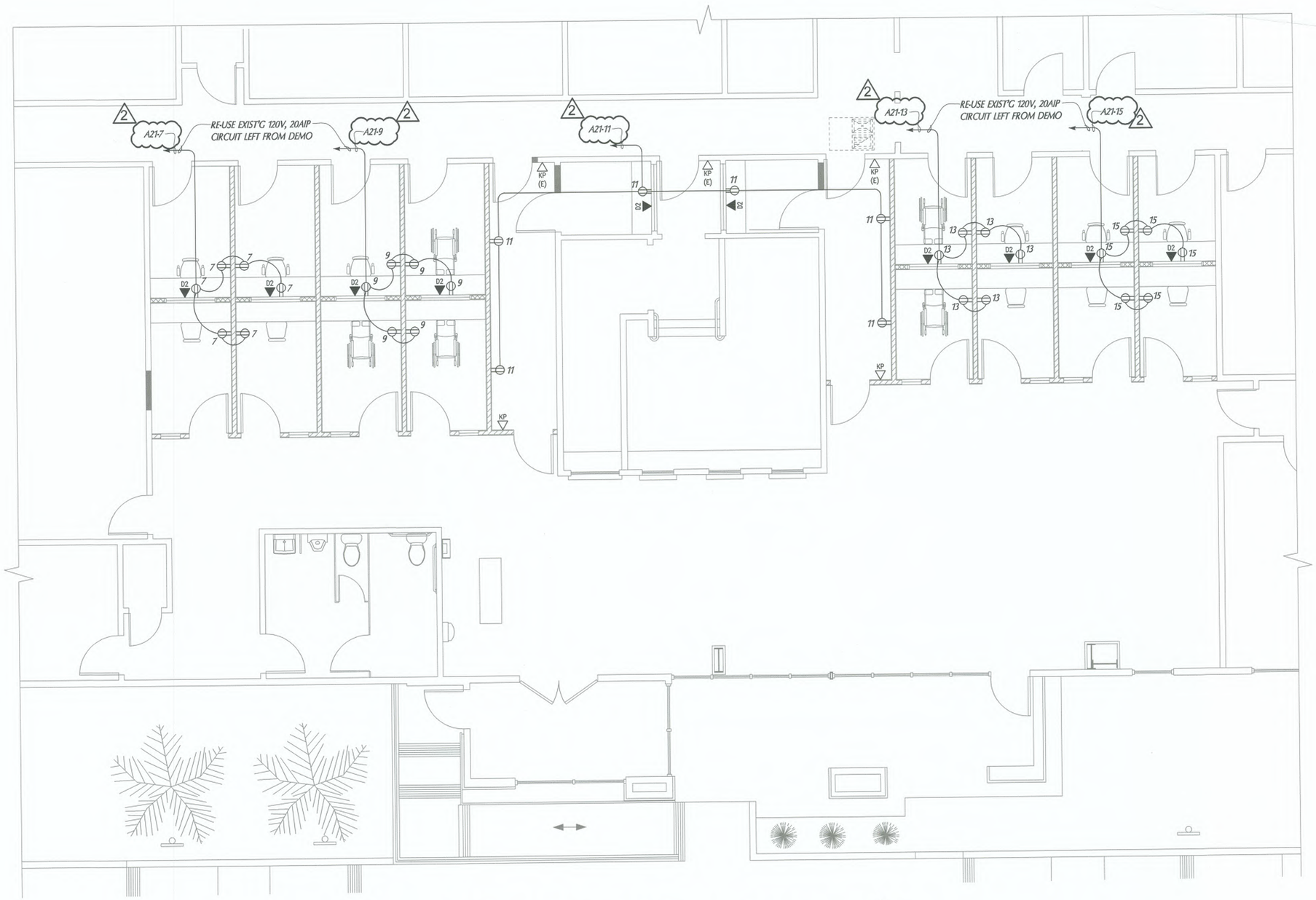
NO.	DESCRIPTION	DATE
2	PLAN CHECK COMMENTS	8/4/25

LICENSED ARCHITECT
JOHN RUMSEY
RC 26813
Exp. 3-31-2026
STATE OF CALIFORNIA

SHEET TITLE

ELECTRICAL FIRST FLOOR PLAN LIGHTING

DATE: 04-24-25	SCALE: AS NOTED
DRAWN BY: CB	DATABASE: 25115.DWG
CHECKED BY: JR	SHEET NUMBER: E2.0
PROJECT NO: 25115	



ELECTRICAL FIRST FLOOR POWER PLAN

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

N

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NO.	DESCRIPTION	DATE
2	PLAN CHECK COMMENTS	8/4/25

LICENSED ARCHITECT
JOHN RUMSEY
C-26813
Exp. 3-31-2026
STATE OF CALIFORNIA

SHEET TITLE

ELECTRICAL FIRST FLOOR POWER PLAN

DATE: 04-24-25	SCALE: AS NOTED
DRAWN BY: CB	DATABASE: 25115.DWG
CHECKED BY: JR	SHEET NUMBER: E3.0
PROJECT NO: 25115	

PLOT DATE 09/04/25

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STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: ICD OF PUBLIC WORKS	Report Page:	(Page 1 of 7)
Project Address: 2995 S. 4TH STREET - SUITE 105, EL CENTRO CA. 92243	Date Prepared:	9/4/2025

This document is used to demonstrate compliance with requirements in 110.9, 110.12(c), 130.0, 130.1, 140.6 and 141.0(b)2 for indoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e) and 180.2(b)4 for indoor lighting scopes using the prescriptive path for multifamily occupancies. Multifamily includes dormitory and senior living facilities.

A. GENERAL INFORMATION

01	Project Location (city)	EL CENTRO	04	Total Conditioned Floor Area (ft²)	1,155
02	Climate Zone	15	05	Total Unconditioned Floor Area (ft²)	0
03	Occupancy Types Within Project (select all that apply):		06	# of Stories (Habitable Above Grade)	1

2

● Office ● Support Areas

B. PROJECT SCOPE

This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.6 / 170.2(e) or 141.0(b)2 / 180.2(b)4 for alterations.

Scope of Work	Conditioned Spaces		Unconditioned Spaces	
01	02	03	04	05
My Project Consists of (check all that apply):	Calculation Method	Area (ft²)	Calculation Method	Area (ft²)
☒ New Lighting System	Area Category Method	1155	Area Category Method	0
☐ New Lighting System - Parking Garage				
Total Area of Work (ft²)	1155		0	

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: ICD OF PUBLIC WORKS	Report Page:	(Page 2 of 7)
	Date Prepared:	9/4/2025

C. COMPLIANCE RESULTS

If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.

Lighting in conditioned and unconditioned spaces must not be combined for compliance per 140.6(b)1 / 170.2(e)	Allowed Lighting Power per 140.6(b) / 170.2(e) (Watts)						Adjusted Lighting Power per 140.6(a) / 170.2(e) (Watts)				Compliance Results
	01	02	03	04	05		06	07	08		09
	Complete Building 140.6(c)1	Area Category 140.6(c)1 / 170.2(e)4	Area Category Additional 140.6(c)1Ci / 170.2(e)4Av (+)	Tailored 140.6(c)3 / 170.2(e)4B (+)	**Total Allowed** (Watts)		Total Designed (Watts)	Adjustments PAF Lighting Control Credits 140.6(a)2 / 170.2(e)1B (-)	**Total Adjusted** (Watts) *Includes Adjustments		**05 must be >= 08 140.6 / 170.2(e)**
	(See Table I)	(See Table I)	(See Table J)	(See Table K)			(See Table F)	(See Table P)			
Conditioned		704	0		= 704	≥	682	0	= 682		COMPLIES
Unconditioned					=	≥			=		
Controls Compliance (See Table H for Details)											COMPLIES
Rated Power Reduction Compliance (See Table Q for Details)											

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

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

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CALIFORNIA ENERGY COMMISSION

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F. INDOOR LIGHTING FIXTURE SCHEDULE

This table includes all planned permanent and portable lighting other than dwelling unit/ hotel/ motel room lighting. Multifamily dwelling unit and hotel/motel room lighting is documented in Table T, if using Table T to document lighting in multifamily common use areas providing shared provisions for living, eating, cooking or sanitation, those luminaires are not included here.

Designed Wattage: Conditioned Spaces

01	02	03	04	05	06	07	08	09	10	
									Field Inspector	
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change[1]	Watts per luminaire[2]	How is Wattage determined	Total Number of Luminaires	Excluded per 140.6(a)3 / 170.2(e)2C	Design Watts	Pass	Fail
A	A- REC 2X4 LED TROFFER	No	NA	31	Mfr. Spec	22	No	682	☐	☐
Total Designed Wattage: CONDITIONED SPACES								682		

[1] *FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per 140.6(a)4B / 170.2(e)2D is adjusted to be 75% /80% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.*

[2] *Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b). Wattage used must be the maximum rated for the luminaire, not the lamp.*

G. MODULAR LIGHTING SYSTEMS

This section does not apply to this project.

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

This table includes lighting controls for conditioned and unconditioned spaces.

Building Level Controls

01	02	03	
		Field Inspector	
		Pass	Fail
Mandatory Demand Response 110.12(c)	Shut-off controls 130.1(c) / 160.5(b)4C		
NA < 4,000W subject to multilevel	See Area/Space Level Controls	☐	☐

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H. INDOOR LIGHTING CONTROLS (Not including PAFs)

Area Level Controls

04	05	06	07	08	09	10	11	12	
								Field Inspector	
Area Description	Complete Building or Area Category Primary Function Area	Manual Area Controls 130.1(a) / 160.5(b)4A	Multi-Level Controls 130.1(b) / 160.5(b)4B	Shut-Off Controls 130.1(c) / 160.5(b)4C	Primary/Sky lit Daylighting 130.1(d) / 160.5(b)4D	Secondary Daylighting 130.1(d) / 160.5(b)4D	Interlocked Systems 140.6(a)1i/ 170.2(e)2A	Pass	Fail
INTERVIEW ROOMS	Office (<=250 square feet)	Readily Accessible	Dimmer	Occupancy Sensor	NA: Overhang	NA: Overhang	No	☐	☐
							13		
							Plan Sheet Showing Daylit Zones:		

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Each area complying using the Complete Building or Area Category Methods per 140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per 140.6(c) or adjustments per 140.6(a) are being used .

Conditioned Spaces

01	02	03	04	05	06	
					Additional Allowance / Adjustment	
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft²)	Area (ft²)	Allowed Wattage (Watts)	Area Category	PAF
INTERVIEW ROOMS	Office (<=250 square feet)	0.65	968	629.2	No	No
CORRIDOR	Corridor	0.4	187	74.8	No	No
	TOTALS:		1,155	704	See Tables J, or P for detail	

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM

This section does not apply to this project.

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K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE

This section does not apply to this project.

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY

This section does not apply to this project.

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING

This section does not apply to this project.

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE /SPECIAL EFFECTS

This section does not apply to this project.

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE

This section does not apply to this project.

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))

This section does not apply to this project.

Q. RATED POWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE ALTERATIONS

This section does not apply to this project.

R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS

This section does not apply to this project.

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S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)

This section does not apply to this project.

T. DWELLING UNIT LIGHTING

This section does not apply to this project.

U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selections have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online

Form/Title
NRCI-LTI-E - Must be submitted for all buildings

V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in this document. If any selections have been changed by the permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and on any with "-A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html

Form/Title	Systems/Spaces To Be Field Verified
NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	INTERVIEW ROOMS;

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Project Address: 2995 S. 4TH STREET - SUITE 105, EL CENTRO CA. 92243	Date Prepared:	9/4/2025

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Milton C. Niederhaus	Documentation Author Signature:
Company: NEDC, Inc.	Signature Date: 2025-09-04
Address: 145 VALLECITOS DE ORO STE 211	CEA/ HERS Certification Identification (if applicable): B8BD-AFF6-9757-C8DD-BF74-ABBB-0D50-7F84-DF1A-90F7-692A-9E26-7310-D39C-121B-6A71
City/State/Zip: SAN MARCOS CA 92069	Phone: 6192780076

RESPONSIBLE PERSON'S DECLARATION STATEMENT

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

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Milton C. Niederhaus	Responsible Designer Signature:
Company: Nutter Electrical Design	Date Signed: 2025-09-04
Address: 3103 Falcon Sreet, Suite J	License: E8636
City/State/Zip: San Diego CA 92103	Phone: (619) 278 0076

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ELECTRICAL CONTRACTOR SHALL PROVIDE AND INCLUDE IN THEIR FEES PROPERLY COMPLETED AND SIGNED CERTIFICATES OF INSTALLATION AND CERTIFICATES OF ACCEPTANCE AND SHALL BE PROVIDED TO THE INSPECTOR IN THE FIELD. (CBEES 10-103)

REGISTERED PROFESSIONAL ENGINEER — JOHN CHARLES NIEDERHAUS — No. E 8636 Exp. 09/30/26 — ELECTRICAL — STATE OF CALIFORNIA

NEDC
NEDC, INC.
ELECTRICAL DESIGN CONSULTANTS
AN ENGINEERING CORPORATION

145 VALLECITOS DE ORO, SUITE 211
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PLOT DATE 09/04/25

MPA ARCHITECTS INC
MEMBER AMERICAN INSTITUTE OF ARCHITECTS
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www.mpa-architects.com

CLIENT
Imperial County Department Of Public Works
155 S 11TH Street
El Centro, CA 92243
P: (442) 265-1810
E: raulcarrasco@co.imperial.ca.us
Contact: Raul Carrasco

PROJECT
NEW INTERVIEW ROOMS AT
Imperial County Department of Social Services
2995 S. 4th Street- Suite 105
El Centro, CA 92243
County Project: SR7777SS

REVISIONS

NO.	DESCRIPTION	DATE
2	PLAN CHECK COMMENTS	8/4/25

LICENSED ARCHITECT — JOHN RUMSEY — C-26013 — Exp. 3-31-2026 — STATE OF CALIFORNIA

SHEET TITLE
T24

DATE:	04-24-25	SCALE:	AS NOTED
DRAWN BY:	CB	DATABASE:	25115.DWG
CHECKED BY:	JR	SHEET NUMBER:	E4.0
PROJECT NO:	25115		