

10540 DAISY DR, VENTURA, CA 93004

ABV	AIR CONDITIONING ABOVE	FOIC	FURNISHED BY OWNER INSTALLED BY CONTRACTOR
ACCU	ACOUSTICAL	FPM	FACE OF MASONRY
ACCT	ACOUSTICAL CEILING TILE	FOS	FACE OF STUD
ADA	AMERICANS WITH DISABILITIES ACT	FRM	FIBERGLASS REINFORCED PANEL
AFCI	ARC FAULT CIRCUIT INTERRUPTER	FT	FOOT OR FEET
AFB	ABOVE FINISH FLOOR	FTG	FOOTING
AL	ALUMINUM	GA	GAUGE, GAGE
ALT	ALTERNATE	GALV	GALVANIZED
ARCH	ARCHITECT(URAL)	GB	GRAB BAR
BD	BOARD	GC	GENERAL CONTRACTOR
BDRM	BEDROOM	GFCI	GROUND FAULT CIRCUIT INTERRUPTER
BET	BETWEEN	GWB	GYPSON BOARD
BIT	BITUMINOUS	GYP	GYPSUM
BLDG	BUILDING	HB	HOSE BIBB
BLKG	BLOCKING	HC	HOLLOW CORE
BLW	BELOW	HCR	HARDWOOD
BM	BEAM	HOWR	HARDWARE
BOT	BOTTOM	HGT	HEIGHT
BUR	BUILT UP ROOF	HM	HOLLOW METAL
CB	CATCH BASIN	HORIZ	HORIZONTAL
CBC	CALIFORNIA BUILDING CODE	HVAC	HEATING, VENTILATION, A/C
CEM	CEMENT	ID	INSIDE DIAMETER
CIF	CUBIC FEET PER MINUTE	IIC	IMPACT INSULATION CLASS
CPM	CAST IN PLACE	IN	INCH
CJ	CONTROL JOINT	INCAND	INCANDESCENT
CL	CENTER LINE	INSUL	INSULATION, INSULATED
CLG	CEILING	INT	INTERIOR
CLO	CLOSET	JC	JANITORS CLOSET
CLR	CLEAR	JT	JOINT
CMU	CONCRETE MASONRY UNIT	LAM	LAMINATE
CO	CLEAN OUT	LAV	LAVATORY
COL	COLUMN	LBS	POUNDS
CONC	CONCRETE	LEED	LEADERSHIP IN ENERGY AND ENVIRONMENTAL DESIGN
CONST	CONSTRUCTION	LF	LINEAR FEET
CONT	CONTINUOUS	LIN	LINEN CLOSET
CONTR	CONTRACTOR	LINO	LINOLEUM
CPT	CARPET	LT(G)	LIGHTING
CTR	CERAMIC TILE	LVL	LAMINATED VENEER LUMBER
CE	CENTER	LVT	LUXURY VINYL TILE
CD	DOUBLE	LW	LIGHTWEIGHT
DF	DRINKING FOUNTAIN	MAX	MAXIMUM
DIA	DIAMETER, DIAPHRAGM	MDF	MEDIUM DENSITY FIBERBOARD
DIM	DIMENSION	MECH	MECHANICAL
DN	DOWN	MEMB	MEMBRANE
DR	DROR	MEP	MECHANICAL, ELECTRICAL, PLUMBING
DSL	DOWN SPOUT	MFR	MANUFACTURER
DTL	DETAIL	MIN	MINIMUM
DW	DISHWASHER	MISC	MISCELLANEOUS
DWG	DRAWING	MO	MASONRY OPENING
(E)	EXISTING	MTD	MOUNTED
E	EAST	MTL	METAL
EA	EACH	N	NORTH
EJ	EXPANSION JOINT	NIC	NOT IN CONTRACT
EL	ELEVATION	NO	NUMBER
ELEV	ELEVATION	NOM	NOMINAL
ELEC	ELECTRIC	NTS	NOT TO SCALE
ENCL	ENCLOSURE	O.P.	OVERFLOW PIPE
EQ	EQUAL	OC	ON CENTER
EQUIP	EQUIPMENT	OD	OVERFLOW DRAIN
EXH	EXHAUST	OFF	OFFICE
EXP	EXPANSION	OH	OPPOSITE HAND
EXT	EXTERIOR	OPG	OPENING
FACP	FIRE ALARM CONTROL PANEL	OPP	OPPOSITE
FAUW	FORCED AIR UNIT	(P)	PROPOSED
FAWP	FLUID APPLIED WATERPROOFING	PERM	PERIMETER
FD	FLOOR DRAIN	PERP	PERPENDICULAR
FDC	FIRE DEPARTMENT CONNECTION	PG	PAINT GRADE
FE	FIRE EXTINGUISHER	PL	PLATE, PROPERTY LINE
FEC	FIRE EXTINGUISHER CABINET	PLAM	PLASTIC LAMINATE
FF	FINISHED FLOOR ELEVATION	PLBG	PLUMBING
FG	FINISHED GRADE	PLYWD	PLYWOOD
FHC	FIRE HYDRANT	PNL	PANEL
FHS	FIRE HOSE CABINET	PP	POWER POLE
FIN	FINISH	PR	PAIR
FIXT	FIXTURE	PRTN	PARTITION
FLR	FLOOR	PSF	POUNDS PER SQUARE FOOT
FLUOR	FLUORESCENT	PSI	POUNDS PER SQUARE INCH
FND	FOUNDATION	PSL	PARALLEL, STRAND LUMBER
FO	FACE OF	PT	PRESSURE TREATED
FOC	FACE OF CONCRETE	PTD	PAINTED
FOF	FACE OF FINISH		

USE OF PLANS: THESE PLANS ARE THE PROPERTY OF RRM AND MAY NOT BE USED WITHOUT THE EXPRESS, WRITTEN CONSENT.

THESE NOTES APPLY TO ALL PORTIONS, PHASES AND SUBCONTRACTORS OF THIS PROJECT.

APPLICABLE CODES AND STANDARDS:

- 2022 CALIFORNIA BUILDING CODE AND ITS APPENDICES AND STANDARDS
- 2022 CALIFORNIA PLUMBING CODE AND ITS APPENDICES AND STANDARDS
- 2022 CALIFORNIA MECHANICAL CODE AND ITS APPENDICES AND STANDARDS
- 2022 CALIFORNIA FIRE CODE AND ITS APPENDICES AND STANDARDS
- 2022 CALIFORNIA ELECTRICAL CODE AND ITS APPENDICES AND STANDARDS
- 2022 CALIFORNIA BUILDING ENERGY EFFICIENCY STANDARDS
- 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE AND ITS APPENDICES AND STANDARDS
- CURRENT CITY OF SAN ANTONIO ORDINANCE 2022 MUNICIPAL CODE

PROJECT SCOPE:

1. REPLACE EXISTING WINDOWS THROUGHOUT THE PROJECT WITH ENERGY SAVING WINDOWS, INCLUDING ASSOCIATED DRYWALL, STUCCO AND WATERPROOFING THE IN.
2. REPLACE SLIDING PATIO DOORS WITH LIKE FOR LIKE DOOR UNITS WITH ENERGY EFFICIENT GLAZING
3. REPLACE ENTRY DOOR AT EACH DWELLING UNIT WITH NEW DOORS AND THRESHOLDS, NO STRUCTURAL, SITE, ROOF, ELECTRICAL, PLUMBING HVAC WORK IS PROPOSED

DESCRIPTION:

RETROFIT WINDOW AND DOOR REPLACEMENT, NEW COMPOSITE FRAME AND SLIDER DOORS, REPLACE ENTRY DOORS WITH COMPOSITE CAD FIRE RATED DOORS, INCLUDING ALL APPLICABLE HARDWARE

G-001	TITLE SHEET
G-101	GENERAL NOTES
G-201	CA GREEN RESIDENTIAL REQUIREMENTS
G-202	CA GREEN RESIDENTIAL REQUIREMENTS
G-301	PROJECT SPECIFICATIONS
G-302	PROJECT SPECIFICATIONS
G-304	PROJECT SPECIFICATIONS
G-305	PROJECT SPECIFICATIONS
G-401	CA ENERGY FORMS
G-402	CA ENERGY FORMS
G-403	CA ENERGY FORMS
AS101	ARCHITECTURAL SITE PLAN
A-101	FIRST FLOOR PLANS
A-102	SECOND FLOOR PLANS
A-201	TYPE A - EXTERIOR ELEVATIONS
A-202	TYPE B - EXTERIOR ELEVATION
A-203	TYPE C - EXTERIOR ELEVATIONS
A-204	TYPE D - EXTERIOR ELEVATION
A-601	DOOR AND WINDOW SCHEDULES
A-602	DOOR AND WINDOW SCHEDULES
A-604	EXISTING SITE PHOTOS BUILDINGS
A-605	EXISTING SITE PHOTOS BUILDINGS
A-606	EXISTING DOORS BUILDINGS A-D
A-607	EXISTING WINDOWS BUILDINGS A-D
Grand total	25

EXISTING TO REMAIN - NO CHANGE

SATISFY RESORTAL GOLF COURSE

TELEPHONE RD

SANDOZ RD

WINDMILL ST

118 FREEWAY WELLS RD

PROJECT SITE

WATER AND SEWER SERVICE
ELECTRICAL SERVICE
GAS SERVICE
TELEPHONE SERVICE
GARBAGE SERVICE
CABLE SERVICE

VIEW SHEET LOCATION
REFERENCE SHEET LOCATION

APPLICANT HOUSING AUTHORITY OF THE CITY OF SAN BUENAVENTURA
ADDRESS: 995 RIVERSIDE ST
VENTURA, CA 93001
CONTACT: NELLIE JASSO

ARCHITECT RRM DESIGN GROUP

ARCHITECT **RRM DESIGN GROUP**

ADDRESS: 422 E. MAIN STREET
VENTURA, CA 93001

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GENERAL NOTES

1. ALL HORIZONTAL CEILING DRYWALL APPLIED TO TRUSSES SHALL BE 5/8" GYPSUM BOARD.
2. ALL EXTERIOR WINDOWS PER OWNER SPECS. REFER TO PLANS FOR SIZE AND EXTERIOR ELEVATIONS FOR ALL GRIDS & COLORS.
3. PROVIDE WATER RESISTIVE BARRIER WITH A PERFORMANCE AT LEAST EQUIVALENT TO (2) LAYERS OF WATER RESISTIVE BARRIER COMPLYING WITH ASTM E2556 TYPE 1. WHEN PLASTER IS INSTALLED OVER WOOD BASED SHEATHING. **(2022 CBC SEC. 2610.6)**
4. CLOTHES DRYER MOISTURE EXHAUST DUCTS SHALL TERMINATE OUTSIDE THE BUILDING AND HAVE A BACK-DRAFT DAMPER. EXHAUST DUCT IS LIMITED TO 14'-0" W/ TWO ELBOWS. THIS SHALL BE REDUCED 2" FOR EVERY ELBOW IN EXCESS OF TWO. MIN. DIA. 4". SMOOTH, METAL DUCT. **(CMC SEC. 304.3)**
5. ALL MANUFACTURED EQUIPMENT SHALL BE INSTALLED AS PER MANUFACTURER'S SPECIFICATION AND DIMENSIONS VERIFIED WITH INSTALLATION REQUIREMENTS.
6. SHOWERS AND TUB-SHOWER COMBINATIONS: CONTROL VALVES MUST BE PRESSURE BALANCED OR THERMOSTATIC MIXING VALVES. **(CPC SEC. 418.0)**
7. PROVIDE TEMPERED GLAZING IN DOORS AND ENCLOSURES FOR SHOWERS, BATHTUBS, SAUNAS, STEAM ROOMS, HOT TUBS, SIMILAR. GLAZING ABOVE THE BOTTOM EXPOSED EDGE IS LESS THAN 60-INCHES ABOVE A STANDING SURFACE. **(2022 CBC 2406.4.5)**
8. HEATING AND AIR-CONDITIONING SYSTEM DESIGN SHALL CONFORM TO CALGREEN SEC. 4.507, ENVIRONMENTAL COMFORT.
9. PROVIDE 5/8" TYPE "X" GYPSUM BOARD AT GARAGE SIDE OF WALLS AND CEILINGS COMMON TO DWELLING AND COVER ALL BEAMS & POSTS, AS WELL AS SOFFITS & FURRED SPACES. ALSO AT UNDERSIDE OF ACCESSIBLE UNDER STAIR AREAS. ONE HOUR CONSTRUCTION FOR ALL WALLS & SOFFITS.

SITE ACCESSIBILITY

- ACCESSIBLE PATH OF TRAVEL**
1. THE ACCESSIBLE ROUTES OF TRAVEL AS INDICATED ON PLAN IS A BARRIER FREE ACCESS ROUTE WITHOUT ANY ABRUPT LEVEL CHANGES, SURFACE IS STABLE AND SLIP RESISTANT. THIS PATH SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MIN AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM WALL AND ABOVE 27" AND LESS THAN 80" **2022 CBC 11B-402**
 2. ACCESSIBLE ROUTES SHALL BE PROVIDED WHERE REQUIRED BY **2022 CBC SECTION 11B-206.2**. EXISTING BUILDINGS AND FACILITIES SHALL COMPLY WITH **2022 CBC 11B-202**.
 3. SITE ARRIVAL POINTS: AT LEAST ONE ACCESSIBLE ROUTE SHALL BE PROVIDED WITHIN THE SITE FROM ACCESSIBLE PARKING SPACES TO BUILDING AND ACCESSIBLE PASSENGER DROP-OFF AND LOADING ZONES; PUBLIC STREETS AND SIDEWALKS; AND PUBLIC TRANSPORTATION STOPS TO THE ACCESSIBLE BUILDING OR PROPERTY ENTRANCE. IF THEY SERVE MORE THAN ONE ROUTE IS PROVIDED, ALL ROUTES MUST BE ACCESSIBLE **(2022 CBC 11B-206.2.1)**
 4. FROM A SITE, AT LEAST ONE ACCESSIBLE ROUTE SHALL CONNECT ACCESSIBLE BUILDINGS, ACCESSIBLE FACILITIES, ACCESSIBLE ELEMENTS, AND ACCESSIBLE SPACES THAT ARE ON THE SAME SITE EXCEPT AS NOTED PER **2022 CBC 11B-206.2.2**
 5. FLOOR AND GROUND SURFACES: FLOOR AND GROUND SURFACES SHALL BE STABLE, FIRM, AND SLIP RESISTANT **2022 CBC 11B-302.1**. OPENINGS IN FLOOR OR GROUND SURFACES SHALL NOT ALLOW PASSAGE OF A SPHERE MORE THAN 1/2 INCH DIAMETER. ELONGATED OPENINGS SHALL BE PLACED SO THAT THE LONG DIMENSION IS PERPENDICULAR TO THE DOMINANT DIRECTION OF TRAVEL. **(2022 CBC 11B-302.3)**
 6. CHANGES IN LEVELS: VERTICAL CHANGES IN LEVEL FOR FLOOR OR GROUND SURFACES MAY BE 1/4 INCH MAXIMUM AND WITHOUT EDGE TREATMENT, CHANGES IN LEVEL GREATER THAN 1/4 INCH AND NOT EXCEEDING 1/4 INCH IN HEIGHT SHALL BE BEVELED WITH A SLOPE NOT STEEPER THAN 1:2. **2022 CBC 11B-303, FIGURES 11B-303.2 & 11B-303.3**
 7. PROTRUDING OBJECTS: PROTRUDING OBJECTS ON CIRCULATION PATHS SHALL COMPLY WITH CBC 11B-307. OBJECTS WITH LEADING EDGES MORE THAN 27" AND NOT MORE THAN 80" AFF OR GROUND SHALL PROTRUDE 4" MAXIMUM INTO THE CIRCULATION PATH. HANDRAILS SHALL BE PERMITTED TO PROTRUDE 4 1/2" MAXIMUM. **2022 CBC 11B-307.2**
 8. FREE STANDING OBJECTS MOUNTED ON POSTS SHALL OVERHANG CIRCULATION PATHS 12" WHEN AFF AND 80" MAX AFF. WHERE A SIGN OR OBSTRUCTION IS MOUNTED BTWN POSTS AND THE CLEAR DISTANCE BTWN POSTS IS GREATER THAN 12", THE LOWEST EDGE OF SIGN OR OBSTRUCTION SHALL BE 27" MAX OR 80" MIN AFF. **2022 CBC 11B-307.3**

- PARKING SIGNAGE**
1. ALL SIGNAGE SHALL NOT ENCROUGH IN THE ACCESSIBLE PATH OF TRAVEL. PARKING SPACE IDENTIFICATION SIGNS SHALL INCLUDE THE INTERNATIONAL SYMBOL OF ACCESSIBILITY COMPLYING WITH SECTION **CBC 2022 11B-703.7.1.1**. SEE ALSO **CBC 2022 11B-502.6**
 2. PARKING IDENTIFICATION SIGNS AT ACCESSIBLE STALLS AND VAN ACCESSIBLE STALLS SHALL BE VISIBLE EACH PARKING SPACE. SIGNS SHALL BE PERMANENTLY POSTED EITHER IMMEDIATELY ADJACENT TO THE PARKING SPACE OR WITHIN THE PROJECTED PARKING SPACE WIDTH AT THE HEAD END OF THE PARKING SPACE. SIGNS MAY ALSO BE PERMANENTLY POSTED ON A WALL AT THE INTERIOR END OF THE PARKING SPACE. **2022 CBC 11B-502.6.3**
 3. AN ADDITIONAL SIGN SHALL BE POSTED IMMEDIATELY ADJACENT TO ON SITE ACCESSIBLE PARKING AND VISIBLE FROM EACH PARKING SPACE. **2022 CBC 11B-502.8**
 1. THE ADDITIONAL SIGN SHALL NOT BE LESS THAN 17 INCHES WIDE BY 22 INCHES HIGH. **2022 CBC 11B-502.8.1**
 2. THE ADDITIONAL SIGN SHALL CLEARLY STATE IN LETTERS WITH A MINIMUM HEIGHT OF 1 INCH THE FOLLOWING: **2022 CBC 11B-502.8.2**
"UNAUTHORIZED VEHICLES PARKED IN DESIGNATED ACCESSIBLE SPACES NOT DISPLAYING DISTINGUISHING PLACARDS OR SPECIAL LICENSE PLATES ISSUED FOR PERSONS WITH DISABILITIES WILL BE TOWED AWAY AT THE OWNERS EXPENSE. TOWED VEHICLES MAY BE RECLAIMED AT: _____ OR BY TELEPHONING _____"
BLANK SPACES SHALL BE FILLED IN WITH APPROPRIATE INFORMATION AS A PERMANENT PART OF THE SIGN. (TOWING COMPANY'S NAME AND TELEPHONE NOS. MUST BE PROVIDED ON SIGN)

STAIRS AND HANDRAILS NOTES

1. VERIFY ALL DIMENSIONS AND FIELD VERIFY EXTERIOR FINISH GRADE ELEVATIONS AT EACH BUILDING FOR EACH STAIR.
1. HANDRAIL: (1) "34"-38" ABOVE STAIR NOSING. **(2022 CBC SEC.1014.2)**
2. THE HAND GRIP PORTION OF THE HANDRAIL SHALL BE: TYPE 1: A MINIMUM DIAMETER OF 1 1/4" AND A MAXIMUM DIAMETER OF 2" IN CROSS SECTION. DIMENSION **(2022 CBC SEC. 1014.3.1)** OR TYPE 2: A PERIMETER GREATER THAN 6 1/4" SHALL PROVIDE A GRASPABLE FINGER RECESS AREA ON BOTH SIDES OF THE PROFILE. **(2022 CBC SEC. 1014.3.3)** 3. THE GRIP SHALL BE 1-1/2" CLEAR FROM WALL. **(2022 CBC SEC. 1014.7)**
4. HANDRAILS ARE PERMITTED TO BE INTERRUPTED BY A NEWEL POST AT A TURN OR LANDING. **(2022 CBC SEC. 1014.4, EXC. 1)**
5. HEADROOM: PROVIDE A MINIMUM OF 80" (8'-0") CLEAR ABOVE ALL PORTIONS OF THE STAIRS AND LANDINGS. THIS DIMENSION SHALL BE MEASURED VERTICALLY FROM A LINE CONNECTING THE EDGE OF THE NOSINGS. **(2022 CBC SEC. 1011.3)**
6. GUARDS SHALL BE NOT LESS THAN 42 INCHES HIGH, MEASURED VERTICALLY. **(2022 CBC SEC. 1016.3)**
7. FOR OCCUPANCIES IN GROUP R-3, AND WITHIN INDIVIDUAL DWELLING UNITS IN OCCUPANCIES IN GROUP R-2, GUARDS ON THE OPEN SIDES OF STAIRS ALSO SERVING AS A HANDRAIL SHALL BE NOT LESS THAN 34" OR MORE THAN 38" **(2022 CBC SEC. 1015.3, EXC. 2)**
8. USABLE SPACE UNDER STAIRS SHALL BE PROTECTED WITH 1/2" TYPE X GYPSUM BOARD OR ANOTHER ACCEPTABLE 1-HOUR FIRE-RESISTANT RATED CONSTRUCTION OR THE RESISTANCE RATING OF THE STAIRWAY ENCLOSURE, WHICHEVER IS GREATER. **(2022 CBC SEC. 1011.7.3, EXC)**
9. FOR REQUIRED GUARDS, INTERMEDIATE MEMBERS SHALL BE SPACED SUCH THAT A SPHERE 4" IN DIAMETER CANNOT PASS THROUGH. **(2022 CBC SEC. 1015.4)**
10. MINIMUM TREAD DEPTH SHALL BE 10" (INTERIOR OF UNITS) AND 11" (EXTERIOR OF UNITS). **(2022 CBC SEC. 1011.5.2, EXC. 3)**, MAXIMUM VARIATION OF 3/8" **(2022 CBC SEC. 1011.5.4)**
11. MAXIMUM RISE SHALL BE 7 1/2" (INTERIOR OF UNITS) AND 7" (EXTERIOR OF UNITS). **(2022 CBC SEC. 1011.5.2, EXC. 3)**, MAXIMUM VARIATION OF 3/8" **(2022 CBC SEC. 1011.5.4)**
12. STAIRWAYS SERVING AN OCCUPANT LOAD OF LESS THAN 50 SHALL HAVE A MINIMUM CLEAR WIDTH OF 36". **(2022 CBC SEC. 1011.2, EXC. 1)**
1. RADIUS OF CURVATURE AT THE LEADING EDGE OF THE TREAD SHALL NOT BE LESS THAN 1/16" AND NOT GREATER THAN 9/16". **(2022 CBC SEC. 1011.5.5)**
4. NOSING PROJECTIONS: THE LEADING EDGES OF TREADS SHALL NOT BE MORE THAN 1 1/4" BEYOND THE TREAD BELOW. **(2022 CBC SEC. 1011.5.5.1)**
15. SPACE BETWEEN HANDGRIP AND WALL SHALL BE NOT LESS THAN 1 1/2". **(2022 CBC SEC. 1014.7)**
16. HANDRAILS SHALL BE PROVIDED ON BOTH SIDES OF STAIRS AND RAMPS WHERE REQUIRED BY **(2022 CBC 11B505.2)** HANDRAILS AT ONE SIDE SHALL BE PERMITTED AS ALLOWED BY **2022 CBC 1011.11 EXCEPTION 1**
17. EXCEPT AS NOTED PER **(2022 CBC 1014.6)**, WHERE HANDRAILS ARE NOT CONTINUOUS BETWEEN FLIGHTS, THE HANDRAILS SHALL EXTEND HORIZONTALLY AT LEAST 12" BEYOND THE TOP RISER AND CONTINUE TO SLOPE FOR THE DEPTH OF ONE TREAD BEYOND THE BOTTOM RISER. AT RAMPS WHERE HANDRAILS ARE NOT CONTINUOUS BETWEEN RUNS, THE HANDRAILS SHALL EXTEND HORIZONTALLY ABOVE THE LANDING 12" MIN BEYOND THE TOP AND BOTTOM OF RAMP RUNS.
18. EXTERIOR LANDING OF EXTERIOR STAIR SHALL NOT HAVE A SLOPE OF MORE THAN 1/4" PER FOOT FOR DRAINAGE. COORDINATE WITH CIVIL DWGS. INTERIOR STAIRS SHALL HAVE THE UPPER APPROACH AND LOWER TREAD MARKED BY A STRIPE PROVIDING CLEAR VISUAL CONTRAST. EXTERIOR STAIRS SHALL HAVE THE UPPER APPROACH AND ALL TREADS MARKED BY A STRIPE PROVIDING CLEAR VISUAL CONTRAST. THE STRIPE SHALL BE A MIN OF 2" WIDE TO A MAX OF 4" WIDE PLACED PARALLEL TO, AND NOT MORE THAN 1" FROM, THE NOSE OF THE STEP OR UPPER APPROACH. THE STRIPE SHALL EXTEND THE FULL WIDTH OF THE STEP OR UPPER APPROACH AND SHALL BE OF MATERIAL THAT IS AT LEAST AS SLIP RESISTANT AS THE OTHER TREADS OF THE STAIR. A PAINTED STRIPE SHALL BE ACCEPTABLE. GROOVES SHALL NOT BE USED TO SATISFY THIS REQUIREMENT. **(2022 CBC 11B-504.4.1)**

FIREBLOCKING/DRAFTSTOPPING NOTES

1. FIREBLOCKING AND DRAFTSTOPPING SHALL BE INSTALLED IN COMBUSTIBLE CONCEALED LOCATIONS IN ACCORDANCE WITH **2022 CBC SECTION 718**
2. FIREBLOCKING SHALL COMPLY WITH **SECTION 718.2**
 - a. **SECTION 718.2.1**: FIREBLOCKING MATERIALS SHALL CONSIST OF:
 1. TWO-INCH NOMINAL LUMBER
 2. TWO THICKNESSES OF ONE-INCH NOMINAL LUMBER WITH BROKEN JOINTS
 3. THE THICKNESS OF 0.719-INCH WOOD STRUCTURAL PANELS WITH JOINTS BACKED BY 0.719-INCH WOOD STRUCTURAL PANELS
 4. ONE-FOURTH-INCH GYPSUM BOARD OR BOARD WITH JOINTS BACKED BY 0.75-INCH PARTICLE BOARD
 5. ONE-HALF-INCH GYPSUM BOARD
 6. ONE-FOURTH-INCH CEMENT-BASED MILLEBOARD
 7. BATTS OR BLANKETS OF MINERAL WOOL, MINERAL FIBER OR OTHER APPROVED MATERIAL, INSTALLED IN SUCH A MANNER AS TO BE SECURELY SECURED IN PLACE
 8. CELLULOSE INSULATION INSTALLED AS TESTED FOR THE SPECIFIC APPLICATION.
 - b. **SECTION 718.2.2**: FIREBLOCKING SHALL BE PROVIDED IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS, INCLUDING FURRED SPACES AND PARALLEL ROWS OF STUDS OR STAGGERED STUDS, AS FOLLOWS:
 1. VERTICALLY AT CEILING AND FLOOR LEVELS
 2. HORIZONTALLY AT INTERVALS NOT EXCEEDING 10 FEET.
 - c. **SECTION 718.2.3**: AT INTERCONNECTIONS BETWEEN CONCEALED VERTICAL STUD WALL OR PARTITION SPACES AND CONCEALED HORIZONTAL SPACES CREATED BY AN ASSEMBLY OF FLOOR JOISTS OR TRUSSES, AND BETWEEN CONCEALED VERTICAL AND HORIZONTAL SPACES SUCH AS OCCUR AT SOFFITS, DROP CEILINGS AND SIMILAR.
 - d. **SECTION 718.2.4**: IN CONCEALED SPACES BETWEEN STAIR STRINGERS AT THE TOP AND BOTTOM OF THE RUN, ENCLOSED SPACES UNDER STAIRS SHALL ALSO COMPLY WITH **2022 CBC SECTION 1011.7.3**
 - e. **SECTION 718.2.5**: AT ANNULAR SPACE AROUND VENTS, PIPES, DUCTS, CHIMNEYS, AND FIREPLACES AT CEILING AND FLOOR LEVELS, SHALL HAVE FIREBLOCKING INSTALLED WITH A MATERIAL SPECIFICALLY TESTED IN THE FORM AND MANNER INTENDED FOR USE TO DEMONSTRATE ITS ABILITY TO REMAIN IN PLACE AND RESIST THE FREE PASSAGE OF FLAME AND THE PRODUCTS OF COMBUSTION.
 - f. **SECTION 717.2.5.1**: FACTORY-BUILT CHIMNEY AND FIREPLACES SHALL BE FIREBLOCKED IN ACCORDANCE WITH UL 103 and UL 127.
3. DRAFTSTOPPING IN FLOOR/CEILING SPACES SHALL COMPLY WITH **SECTION 718.3**.
 - a. DRAFTSTOPPING SHALL BE INSTALLED TO SUBDIVIDE FLOOR/CEILING ASSEMBLIES WHERE REQUIRED BY **SECTION 708.4.2** IN OTHER THAN GROUP R OCCUPANCIES. DRAFTSTOPPING SHALL BE INSTALLED TO SUBDIVIDE COMBUSTIBLE FLOOR/CEILING ASSEMBLIES SO THAT HORIZONTAL FLOOR AREAS DO NOT EXCEED 1,000 SQUARE FEET. **EXCEPTION:** BUILDINGS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH **SECTION 903.3.1.1**.
 - b. DRAFTSTOPPING MATERIALS SHALL BE NOT LESS THAN 1/2-INCH GYPSUM BOARD, 3/8-INCH WOOD STRUCTURAL PANEL, 3/8-INCH PARTICLEBOARD, 1-INCH NOMINAL LUMBER, CEMENT FIBERBOARD, BATTS OR BLANKETS OF MINERAL WOOL, OR GLASS FIBER, OR OTHER APPROVED MATERIALS ADEQUATELY SUPPORTED. THE INTEGRITY OF DRAFTSTOPPS SHALL BE MAINTAINED.
 4. DRAFTSTOPPING IN ATTIC SPACES SHALL COMPLY WITH **SECTION 718.4**.
 - a. DRAFTSTOPPING SHALL BE INSTALLED TO SUBDIVIDE ATTIC SPACES WHERE REQUIRED BY **SECTION 708.4.2** IN OTHER THAN GROUP R. DRAFTSTOPPING SHALL BE INSTALLED TO SUBDIVIDE COMBUSTIBLE ATTIC SPACES AND COMBUSTIBLE CONCEALED ROOF SPACES SUCH THAT ANY HORIZONTAL AREA DOES NOT EXCEED 3,000 SQUARE FEET. VENTILATION OF CONCEALED ROOF SPACES SHALL BE MAINTAINED IN ACCORDANCE WITH **SECTION 1202.2.1**. **EXCEPTION:** BUILDINGS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH **SECTION 903.3.1.1**.
 - b. MATERIALS UTILIZED FOR DRAFTSTOPPING OF ATTIC SPACES SHALL COMPLY WITH **SECTION 718.3.1**.
 - c. OPENINGS IN THE PARTITIONS SHALL BE PROTECTED BY SELF-CLOSING DOORS WITH AUTOMATIC LATCHES CONSTRUCTED AS REQUIRED FOR THE PARTITIONS.

ROOF VENTILATION NOTES

PER 2022 CBC SECTION 1203.2.1 & 1203.2.2

1. ENCLOSED ATTICS AND ENCLOSED RAFTER SPACES FORMED WHERE CEILINGS ARE APPLIED DIRECTLY TO THE UNDERSIDE OF ROOF FRAMING MEMBERS SHALL HAVE CROSS VENTILATION FOR EACH SEPARATE SPACE BY VENTILATION OPENINGS PROTECTED AGAINST THE ENTRANCE OF RAIN AND SNOW.
2. BLOCKING AND BRIDGING SHALL BE ARRANGED SO AS NOT TO INTERFERE WITH THE MOVEMENT OF AIR, AN AIRSPACE OF NOT LESS THAN 1-INCH SHALL BE PROVIDED BETWEEN THE INSULATION AND THE ROOF SHEATHING.
3. THE NET FREE VENTILATING AREA SHALL BE NOT LESS THAN 1/50 OF THE AREA OF THE SPACE VENTILATED.
4. THE NET-FREE CROSS VENTILATION AREA SHALL BE PERMITTED TO BE REDUCED TO 1/300 PROVIDED THAT AT LEAST 40 PERCENT AND NOT MORE THAN 50 PERCENT OF THE REQUIRED VENTING AREA IS PROVIDED BY VENTILATORS LOCATED IN THE UPPER PORTION OF THE ATTIC OR RAFTER SPACE. UPPER VENTILATORS SHALL BE LOCATED NOT MORE THAN 3 FEET BELOW THE RIDGE OR HIGHEST POINT OF THE SPACE, MEASURED VERTICALLY, WITH THE BALANCE OF THE VENTILATION PROVIDED BY EAVE OR CORNICE VENTS WHERE THE LOCATION OF WALL OR ROOF FRAMING MEMBERS CONFLICTS WITH THE INSTALLATION OF UPPER VENTILATORS, INSTALLATION MORE THAN 3 FEET BELOW THE RIDGE OR HIGHEST POINT OF THE SPACE SHALL BE PERMITTED.
5. VENTILATORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.
6. EXTERIOR OPENINGS INTO THE ATTIC SPACE OF ANY BUILDING INTENDED FOR HUMAN OCCUPANCY SHALL BE PROTECTED TO PREVENT THE ENTRY OF BIRDS, SQUIRRELS, RODENTS, SNAKES AND OTHER SIMILAR CREATURES.
7. OPENINGS FOR VENTILATION HAVING A LEAST DIMENSION OF NOT LESS THAN 1/16-INCH AND NOT MORE THAN 1/4-INCH SHALL BE PERMITTED.
8. OPENINGS FOR VENTILATION HAVING A LEAST DIMENSION LARGER THAN 1/4-INCH SHALL BE PROVIDED WITH WITH CORROSION-RESISTANT WIRE CLOTH SCREENING, HARDWARE CLOTH, PERFORATED VINYL OR SIMILAR MATERIAL WITH OPENINGS HAVING A LEAST DIMENSION OF NOT LESS THAN 1/16-INCH AND NOT MORE THAN 1/4-INCH.

ENERGY CODE MANDATORY FEATURES

1. ALL JOINTS, PENETRATIONS AND OTHER OPENINGS IN THE BUILDING ENVELOPE THAT ARE POTENTIAL SOURCES OF AIR LEAKAGE SHALL BE CAULKED, GASKETED, WETHER-STRIPPED OR OTHERWISE SEALED TO LIMIT INFILTRATION AND EXFILTRATION. **(2022 Cenc SEC. 110.7)**
2. ATTIC ACCESS DOORS SHALL HAVE PERMANENTLY ATTACHED INSULATION USING ADHESIVE OR MECHANICAL FASTENERS. THE ATTIC ACCESS SHALL BE GASKETED TO PREVENT AIR LEAKAGE. **(2022 Cenc 150.9(9))**
3. PERMANENTLY INSTALLED NIGHT LIGHTS AND NIGHT LIGHTS INTEGRAL TO INSTALLED LUMINAIRES OR EXHAUST FANS SHALL BE RATED TO CONSUME NO MORE THAN FIVE WATTS OF POWER PER LUMINAIRE OR EXHAUST FAN AS DETERMINED IN ACCORDANCE WITH **2022 Cenc SEC. 150.9(6)**. NIGHT LIGHTS SHALL NOT BE REQUIRED TO BE CONTROLLED BY VACANCY SENSORS. **(2022 Cenc 150.9(14))**
4. ALL INSTALLED LUMINAIRES SHALL BE HIGH EFFICACY IN ACCORDANCE WITH CEC TABLE 150.0-A. **(2022 Cenc 150.9(14))**
5. THE NUMBER OF ELECTRICAL BOXES THAT ARE MORE THAN 5 FEET ABOVE THE FINISHED FLOOR AND DO NOT CONTAIN A LUMINAIRE OR OTHER DEVICE SHALL BE NO GREATER THAN THE NUMBER OF BEDROOMS. THESE ELECTRICAL BOXES MUST BE SERVED BY A DIMMER, VACANCY SENSOR CONTROL, OR FAN SPEED CONTROL. **(2022 Cenc 150.9(15))**

DOORS

1. EGRESS DOORS **(2022 CBC 1010.1)**
 - a. THINGS OF EGRESS DOORS SHALL MEET THE REQUIREMENTS OF **2022 CBC 1010.1**.
 - b. DOORS SHALL SWING IN THE DIRECTION OF EGRESS TRAVEL WHERE FOLLOWING MATERIALS OR MATERIALS ARE USED:
 - 1. ONE OR MORE PERSONS OR A GROUP R OCCUPANCY **(2022 CBC 1010.1.2.1)**
 - 2. ALL EXTERIOR DOOR LANDINGS ARE TO BE NOT MORE THAN 2% IN SLOPE.
 - 3. LANDING AND CROSSLANDINGS ARE TO BE NOT MORE THAN 2% IN SLOPE.
 - 4. DOORS IN THE FULLY OPEN POSITION SHALL NOT REDUCE A REQUIRED DIMENSION BY MORE THAN 7 INCHES, WHERE A LANDING SERVES AN OCCUPANT LOAD OF 50 OR MORE, DOORS IN ANY POSITION SHALL NOT REDUCE THE LANDING TO LESS THAN ONE-HALF ITS REQUIRED WIDTH. DOOR LANDINGS SHALL HAVE A LENGTH MEASURED IN THE DIRECTION OF TRAVEL NOT LESS THAN 44 INCHES EXCEPT AS NOTED PER **2022 CBC 1010.1.6**
 - c. EGRESS DOORS SHALL BE READILY OPENABLE FROM BOTH SIDES WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT
 - d. EGRESS DOORS SHALL BE SECURELY RETAINED IN PLACE
 - e. THE UNLATCHING OF ANY DOOR OR LEAF SHALL NOT REQUIRE MORE THAN ONE OPERATION EXCEPT AS NOTED PER **2022 CBC 1010.1.8.6**
 - f. EGRESS DOORS SHALL BE EQUIPPED WITH PULL OR PUSH HARDWARE OR FIRE EXIT HARDWARE EXCEPT AS NOTED PER **2022 CBC 1010.1.10**
 - g. EGRESS DOORS SHALL BE EQUIPPED WITH PULL OR PUSH HARDWARE OR FIRE EXIT HARDWARE EXCEPT AS NOTED PER **2022 CBC 1010.1.10**
 - h. EGRESS DOORS SHALL BE EQUIPPED WITH PULL OR PUSH HARDWARE OR FIRE EXIT HARDWARE EXCEPT AS NOTED PER **2022 CBC 1010.1.10**
 - i. EGRESS DOORS SHALL BE EQUIPPED WITH PULL OR PUSH HARDWARE OR FIRE EXIT HARDWARE EXCEPT AS NOTED PER **2022 CBC 1010.1.10**
 - j. EGRESS DOORS SHALL BE EQUIPPED WITH PULL OR PUSH HARDWARE OR FIRE EXIT HARDWARE EXCEPT AS NOTED PER **2022 CBC 1010.1.10**
 - k. EGRESS DOORS SHALL BE EQUIPPED WITH PULL OR PUSH HARDWARE OR FIRE EXIT HARDWARE EXCEPT AS NOTED PER **2022 CBC 1010.1.10**
 - l. EGRESS DOORS SHALL BE EQUIPPED WITH PULL OR PUSH HARDWARE OR FIRE EXIT HARDWARE EXCEPT AS NOTED PER **2022 CBC 1010.1.10**
 - m. EGRESS DOORS SHALL BE EQUIPPED WITH PULL OR PUSH HARDWARE OR FIRE EXIT HARDWARE EXCEPT AS NOTED PER **2022 CBC 1010.1.10**
 - n. EGRESS DOORS SHALL BE EQUIPPED WITH PULL OR PUSH HARDWARE OR FIRE EXIT HARDWARE EXCEPT AS NOTED PER **2022 CBC 1010.1.10**
 - o. EGRESS DOORS SHALL BE EQUIPPED WITH PULL OR PUSH HARDWARE OR FIRE EXIT HARDWARE EXCEPT AS NOTED PER **2022 CBC 1010.1.10**
 - p. EGRESS DOORS SHALL BE EQUIPPED WITH PULL OR PUSH HARDWARE OR FIRE EXIT HARDWARE EXCEPT AS NOTED PER **2022 CBC 1010.1.10**
 - q. EGRESS DOORS SHALL BE EQUIPPED WITH PULL OR PUSH HARDWARE OR FIRE EXIT HARDWARE EXCEPT AS NOTED PER **2022 CBC 1010.1.10**
 - r. EGRESS DOORS SHALL BE EQUIPPED WITH PULL OR PUSH HARDWARE OR FIRE EXIT HARDWARE EXCEPT AS NOTED PER **2022 CBC 1010.1.10**
 - s. EGRESS DOORS SHALL BE EQUIPPED WITH PULL OR PUSH HARDWARE OR FIRE EXIT HARDWARE EXCEPT AS NOTED PER **2022 CBC 1010.1.10**
 - t. EGRESS DOORS SHALL BE EQUIPPED WITH PULL OR PUSH HARDWARE OR FIRE EXIT HARDWARE EXCEPT AS NOTED PER **2022 CBC 1010.1.10**
 - u. EGRESS DOORS SHALL BE EQUIPPED WITH PULL OR PUSH HARDWARE OR FIRE EXIT HARDWARE EXCEPT AS NOTED PER **2022 CBC 1010.1.10**
 - v. EGRESS DOORS SHALL BE EQUIPPED WITH PULL OR PUSH HARDWARE OR FIRE EXIT HARDWARE EXCEPT AS NOTED PER **2022 CBC 1010.1.10**
 - w. EGRESS DOORS SHALL BE EQUIPPED WITH PULL OR PUSH HARDWARE OR FIRE EXIT HARDWARE EXCEPT AS NOTED PER **2022 CBC 1010.1.10**
 - x. EGRESS DOORS SHALL BE EQUIPPED WITH PULL OR PUSH HARDWARE OR FIRE EXIT HARDWARE EXCEPT AS NOTED PER **2022 CBC 1010.1.10**
 - y. EGRESS DOORS SHALL BE EQUIPPED WITH PULL OR PUSH HARDWARE OR FIRE EXIT HARDWARE EXCEPT AS NOTED PER **2022 CBC 1010.1.10**
 - z. EGRESS DOORS SHALL BE EQUIPPED WITH PULL OR PUSH HARDWARE OR FIRE EXIT HARDWARE EXCEPT AS NOTED PER **2022 CBC 1010.1.10**
2. ACCESSIBILITY REQUIREMENTS AT DOORS, DOORWAYS, AND GATES **(2022 CBC 11B-404)**
 - a. MINIMUM CLEAR WIDTH AT ACCESSIBLE DOORS IS 32" MEASURED BETWEEN THE TOP OF THE DOOR AND THE STOP, WITH THE DOOR OPEN 90 DEGREES **(2022 CBC 11B-404.2.3)**
 - b. MANEUVERING CLEARANCES SHALL COMPLY WITH **(2022 CBC 11B-404.2.4)**
 - c. HORIZONTAL FLOOR AREAS DO NOT EXCEED 1,000 SQUARE FEET
 - d. THRESHOLDS SHALL BE 1/2" HIGH MAX **(2022 CBC 11B-404.2.5)**; REFER TO DOOR THRESHOLD
 - e. MAXIMUM DOOR OPENING FORCE OF 5 LBS. AT EXTERIOR AND INTERIOR DOORS, AND AS ALLOWABLE BY THE ADMINISTRATIVE AUTHORITY, NOT TO EXCEED 15 LBS. AT FIRE DOORS **(2022 CBC 11B-404.2.9)**
 - f. HAND-ACTIVATED DOOR OPENING HARDWARE, HANDLES, PULLS, LATCHES, LOCKS AND OTHER "TAKING HANDS" SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRIPPING, TIGHT GRIPPING OR THE WRIST TO OPERATE **(2022 CBC 11B-404.2.7 AND 2019 CBC 11B-305.4)**
 - g. OPERABLE PARTS SHALL BE BETWEEN 34 INCHES AND 44 INCHES ABOVE THE FLOOR **(2022 CBC 11B-404.2.7)**
 - h. CLOSERS SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR TO A POSITION OF 12 DEGREES FROM THE LATCH IS 5 SECONDS MAXIMUM **(2022 CBC 11B-404.2.8.1)**
 - i. SWINGING DOOR AND GATE SURFACES WITHIN 10" OF THE FF OR GROUND SHALL HAVE A SMOOTH SURFACE ON THE PUSH SIDE EXTENDING THE FULL WIDTH OF THE DOOR OR GATE EXCEPT AS NOTED PER **2022 CBC 11B-404.2.10**
 - j. OPENINGS IN THE PARTITIONS SHALL BE PROTECTED BY SELF-CLOSING DOORS WITH AUTOMATIC LATCHES CONSTRUCTED AS REQUIRED FOR THE PARTITIONS.
3. OPENING PROTECTIVES AND FIRE DOOR ASSEMBLIES **(2022 CBC 716 AND NFPA 80)**
 - a. FIRE DOORS SHALL COMPLY WITH THE PROVISIONS OF **2022 CBC 716 AND NFPA 80**
 - b. FIRE DOORS SHALL BE LATCHING AND SELF- OR AUTOMATIC-CLOSING PER **2019 CBC 716.2.6.1**
 - c. SIDE-HINGED DOORS SHALL BE TESTED IN ACCORDANCE WITH NFPA 252 OR UL 10C **(2022 CBC 716.2.6.2)**
 - d. UNLESS OTHERWISE SPECIFICALLY PERMITTED, SINGLE SIDE-HINGED SWINGING FIRE DOORS AND BOTH LEAVES OF PAIRS OF SIDE-HINGED SWINGING FIRE DOORS SHALL BE PROVIDED WITH AN ACTIVE LATCH BOLT THAT WILL SECURE THE DOOR WHEN IT IS CLOSED **2022 CBC 716.2.6.2**
 - e. FIRE DOOR ASSEMBLIES REQUIRED TO HAVE A MINIMUM FIRE PROTECTION RATING OF 20 MINUTES WHERE LOCATED IN CORRIDOR WALLS OR SMOKE BARRIER WALLS HAVING A FIRE-RESISTANCE RATING IN ACCORDANCE WITH TABLE 716.1(2) SHALL BE TESTED IN ACCORDANCE WITH NFPA 252 OR UL 10C WITHOUT THE FIRE STREAM TEST EXCEPT AS NOTED PER **2022 CBC 716.2.2.1**
 - f. FIRE DOOR ASSEMBLIES THAT SERVE AS SMOKE AND DRAFT CONTROL ASSEMBLIES SHALL BE TESTED IN ACCORDANCE WITH UL 1784 **(2022 CBC 716.2.1.4)**
 - g. FIRE DOOR ASSEMBLIES SHALL BE LABELED BY AN APPROVED AGENCY. THE LABELS SHALL COMPLY WITH NFPA 80, AND BE PERMANENTLY AFFIXED TO THE DOOR OR FRAME **2022 CBC 716.2.9**
 - h. SMOKE AND DRAFT CONTROL DOORS COMPLYING WITH UL 1784 SHALL BE LABELED IN ACCORDANCE WITH SECTION **2022 CBC 716.2.8.1** AND SHALL SHOW THE LETTER "S" ON THE FIRE RATING LABEL OF THE DOOR PER **2022 CBC 716.2.9.3**
 - i. FIRE DOORS SHALL BE LABELED SHOWING THE NAMES OF THE MANUFACTURER OR OTHER IDENTIFICATION READILY TRACEABLE BACK TO THE MANUFACTURER, THE NAME OR TRADEMARK OF THE THIRD-PARTY INSPECTION AGENCY, THE FIRE PROTECTION RATING AND, WHERE REQUIRED FOR FIRE DOORS IN INTERIOR EXIST STAIRWAYS AND RAMPS AND EXIT PASSAGEWAYS BY **2022 CBC SECTION 716.2.2.3**, THE MAXIMUM TRANSMITTED TEMPERATURE END POINT. **2022 CBC 716.2.9.1**
4. GLAZING
 - a. GLAZING IN ALL DOOR ASSEMBLIES AND FIRE WINDOW ASSEMBLIES SHALL COMPLY WITH **2022 CBC CHAPTER 24 - SAFETY GLAZING**. LOCATIONS NOTED WITH "T".
 - b. GLAZING USED IN FIRE DOOR ASSEMBLIES AND FIRE WINDOW ASSEMBLIES SHALL COMPLY WITH **2022 CBC 2406.4.2** IN ADDITION TO THE REQUIREMENTS OF SECTIONS **2022 CBC 716.2 AND 2022 CBC 716.3** RESPECTIVELY, AND NFPA 80
 - c. IN 20-MIN FIRE DOOR ASSEMBLIES, GLAZING SHALL HAVE A MIN. FIRE-PROTECTION-RATED GLAZING OF 20 MINUTES AND SHALL BE EXEMPT FROM THE HOSE STREAM TEST **(2022 CBC 716.2.5.3)** (TRANSOM AND SIDE-LITES SEC **2022 CBC 716.2.5.4**)
 - d. FIRE PROTECTION RATED GLAZING SHALL BE PROHIBITED IN FIRE WALLS AND FIRE BARRIERS RATED GREATER THAN 1 HOUR EXCEPT AS PROVIDED IN **2022 CBC 716.2.5.1.2.1 AND 716.2.5.1.2.2**

WINDOWS

- a. WINDOWS IN HAZARDOUS LOCATIONS REQUIRE SAFETY GLAZING MATERIALS. **(2022 CBC SEC. 2406.4)**
- b. AT HAZARDOUS LOCATIONS REQUIRING SAFETY GLAZING, PROVIDE SAFETY GLAZING IN BOTH PANES PER **2022 CBC 2406.4.2**
 - a. GLAZING IN AN INDIVIDUAL FIXED OR OPERABLE PANEL ADJACENT TO A DOOR WHERE THE NEAREST EXPOSED EDGE OF THE GLAZING IS WITHIN A 24-INCH ARC OF EITHER VERTICAL EDGE OF THE DOOR IN A CLOSED POSITION AND WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN 60 INCHES ABOVE THE WALKING SURFACE SHALL BE CONSIDERED TO BE A HAZARDOUS LOCATION **(2022 CBC 2406.4.2)**
 - b. GLAZING IN AN INDIVIDUAL FIXED OR OPERABLE PANEL, WHICH MEETS ALL OF THE FOLLOWING CONDITIONS SHALL BE CONSIDERED TO BE A HAZARDOUS LOCATION **(2022 CBC 2406.4.3)**
 - EXPOSED AREA OF AN INDIVIDUAL PANE GREATER THAN 9 SF
 - EXPOSED BOTTOM EDGE LESS THAN 18 INCHES ABOVE THE FLOOR
 - EXPOSED TOP EDGE GREATER THAN 36 INCHES ABOVE THE FLOOR
 - ONE OR MORE WALKING SURFACE(S) WITHIN 36 INCHES HORIZONTALLY OF THE PLANE OF THE GLAZING
 - c. GLAZING WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN 60 INCHES ABOVE THE PLANE OF THE ADJACENT WALKING SURFACE OF STAIRWAYS, LANDING BETWEEN FLIGHTS OF STAIRS AND RAMPS SHALL BE CONSIDERED TO BE A HAZARDOUS LOCATION EXCEPT AS NOTED PER **2022 CBC 2406.4.6**
 - d. GLAZING ADJACENT TO THE LANDING AT THE BOTTOM OF A STAIRWAY WHERE THE GLAZING IS LESS THAN 60 INCHES ABOVE THE LANDING AND WITHIN A 60 INCH HORIZONTAL ARC THAT IS LESS THAN 180 DEGREES FROM THE BOTTOM TREAD NOSING SHALL BE CONSIDERED TO BE A HAZARDOUS LOCATION EXCEPT AS NOTED PER **2022 CBC 2406.4.7**
- c. EGRESS WINDOWS SHALL HAVE A CLEAR OPENING WITH A MAX SILL HEIGHT OF 44" AFF, MIN NET CLEAR OPENING FOR EMERGENCY ESCAPE SHALL BE 5.7 SF EXCEPT: MIN 5.7 SF AT GROUND FLOOR, MINIMUM NET CLEAR OPENING DIMENSIONS: HEIGHT: 24", WIDTH: 20". EGRESS WINDOWS SHALL BE OPERATIONAL FROM THE INSIDE OF THE ROOM WITHOUT THE USE OF KEYS, TOOLS OR SPECIAL KNOWLEDGE. **(2022 CBC SECTION 1020)**
- d. WINDOWS IN GROUP R-1, R-2, AND R-3 BUILDINGS INCLUDING DWELLING UNITS WHERE THE TOP OF THE SILL OF AN OPERABLE WINDOW OPENING IS LOCATED LESS THAN 36 INCHES ABOVE THE FINISHED FLOOR AND MORE THAN 72 INCHES ABOVE THE FINISHED GRADE OR OTHER SURFACE BELOW ON THE EXTERIOR OF THE BUILDING, SHALL COMPLY WITH ONE OF THE FOLLOWING PER **2022 CBC 1015.8**
 - OPERABLE WINDOWS WHERE THE OPENINGS WILL NOT ALLOW A 4-INCH DIAMETER SPHERE TO PASS THROUGH THE OPENING WHEN THE WINDOW IS IN ITS LARGEST OPENED POSITION
 - OPERABLE WINDOWS WHERE THE OPENINGS ARE PROVIDED WITH WINDOW FALL PREVENTION DEVICES THAT COMPLY WITH ASTM F2090
 - OPERABLE WINDOWS THAT ARE PROVIDED WITH WINDOW OPENING CONTROL DEVICES THAT COMPLY WITH **2022 CBC SECTION 1015.8.1**

ADDITIONAL/ DEMOLITION NOTES

1. PROTECT AND PRESERVE, IN PLACE, ALL SURVEY MONUMENTS AND BENCHMARKS. DO NOT DISTURB, MOVE, OR RELOCATE MONUMENTS OR BENCHMARKS WITHOUT THE PRIOR REVIEW AND APPROVAL BY THE AGENCY JURISDICTION OVER THE MONUMENTS OR BENCHMARKS.
2. SEPTIC TANKS THAT ARE DISCOUNTED FROM FURTHER USE SHALL BE ABANDONED IN ACCORDANCE WITH CPC 722. SOILS ENGINEER SPECIAL INSPECTION IS REQUIRED FOR THE REMOVAL OF SEPTIC SYSTEMS AND GRADING TO FILL THE RESULTANT EXCAVATION.
3. WDI# #3 40C394322
4. EROSION CONTROL MEASURES SHALL BE IMPLEMENTED AND MAINTAINED DURING ALL CONSTRUCTION AND PUBLIC WORKS ACTIVITIES. DISTURBING ACTIVITIES PER THE CITY OF SAN BUENAVENTURA STANDARDS.
5. WASTE MATERIAL SHALL BE REMOVED IN A MANNER WHICH PREVENTS INJURY OR DAMAGE TO PERSONS, ADJOINING PROPERTIES AND PUBLIC RIGHT-OF-WAYS PER **2022 CBC 3302.2**
6. SANITATION FACILITIES SHALL BE PROVIDED DURING CONSTRUCTION, OR DEMOLITION ACTIVITIES IN ACCORDANCE WITH THE CALIFORNIA PLUMBING CODE. **CBC 3305.1**
7. THE OWNER/CONTRACTOR SHALL BE RESPONSIBLE FOR PLACEMENT OR SAFETY DEVICES SUCH AS FENCING, BARRICADES, SAFETY TAPE, ETC., AND SHALL FOLLOW ALL AGENCY AND PUBLIC SAFETY REGULATIONS.
8. PER THE 2022 CPC SECTION 3301.1, ADJOINING PROPERTY SHALL BE PROTECTED FROM DAMAGE DURING DEMOLITION ACTIVITY. THE PERSON CAUSING EXCAVATION TO BE MADE SHALL PROVIDE WRITTEN NOTICE TO THE OWNERS OF ADJOINING PROPERTY ADVISING THEM THAT THE EXCAVATION WILL BE MADE AND THE ADJOINING BUILDINGS WILL BE PROTECTED. NOTIFICATION SHALL BE DELIVERED NOT LESS THAN 10 DAYS PRIOR TO THE SCHEDULED START DATE. PROVIDE COPY OF RECEIPT OF CERTIFIED LETTER TO ADJOINING OWNERS.
9. ALL WORK LOCATED WITHIN THE PUBLIC RIGHT-OF-WAY OR WITHIN THE JURISDICTION OF THE UTILITIES AND PUBLIC WORKS DEPARTMENT SHALL COMPLY WITH THE MOST CURRENT EDITION OF THE ENGINEERING STANDARDS AND STANDARD SPECIFICATIONS.
10. A SEPARATE ENCROACHMENT PERMIT IS REQUIRED FOR ANY WORK IN THE PUBLIC RIGHT-OF-WAY, WITHIN CITY EASEMENTS, OR FOR CONSTRUCTION TO PUBLIC UTILITIES. WORK REQUIRING AN ENCROACHMENT PERMIT INCLUDES BUT IS NOT LIMITED TO WATER, SEWER, AND FIRE SERVICE LATERALS, CURBS, GUTTER AND SIDEWALK, DRIVEWAY APPROACHES, SIDEWALK UNDERDRAINS, STORM DRAIN IMPROVEMENTS, CONSTRUCTION STAGING IN THE RIGHT-OF-WAY.
11. THE ADJOINING STREET SHALL BE CLEANED BY SWEEPING TO REMOVE DIRT, DUST, MUD AND CONSTRUCTION DEBRIS AT THE END OF EACH DAY.
12. A TRAFFIC CONTROL AND/OR PEDESTRIAN PROTECTION PLAN SHALL BE SUBMITTED TO THE BUILDING DIVISION FOR REVIEW AND APPROVAL TO THE SATISFACTION OF THE BUILDING DIVISION AND THE PUBLIC WORKS DEPARTMENT PRIOR TO ENCROACHMENT PERMIT ISSUANCE.
13. ANY EXISTING SURVEY MONUMENT SHALL BE PROTECTED IN PLACE OR SHALL BE TIED OUT BY A LICENSED LAND SURVEYOR PRIOR TO DISTURBANCE AND THEN REPLACED PRIOR TO OCCUPANCY IN ACCORDANCE WITH SECTION 8771 OF THE CALIFORNIA BUSINESS AND PROFESSIONS CODE.
14. SEPTIC TANKS SHALL BE ABANDONED IN ACCORDANCE WITH THE UNIFORM PLUMBING CODE. ABANDONED SEPTIC TANKS SHALL BE PUMPED OUT. THE LEACH FIELD SHALL BE ABANDONED AS RECOMMENDED BY THE PROJECT SOILS ENGINEER.
15. CONTACT THE PUBLIC WORKS INSPECTION HOTLINE AT 781-7554 WITH AT LEAST 48-HOURS NOTICE FOR ANY REQUIRED ENCROACHMENT PERMIT INSPECTION OR FINAL INSPECTION PRIOR TO DISTURBANCE.
16. EROSION CONTROL MEASURES SHALL BE IMPLEMENTED AND MAINTAINED TO THE SATISFACTION OF THE BUILDING OFFICIAL AND PUBLIC WORKS DIRECTOR DURING ALL DEMOLITIONS, CONSTRUCTION AND GROUND DISTURBING ACTIVITIES.
17. A SOILS ENGINEER SHALL PROVIDE SPECIAL INSPECTION AS REQUIRED FOR THE EXTENT AND LIMITS OF THE PRIVATE WASTE DISPOSAL SYSTEM.
18. REMODELING OR DEMOLITION OF PRE-1978 STRUCTURES WITHOUT USING LEAD-BASED PAINT IS A VIOLATION OF THE CALIFORNIA HEALTH AND SAFETY CODE SECTION 105256. CONTRACTORS, REMODELERS AND PAINTERS ARE REQUIRED TO USE LEAD-BASED PAINT REMEDIATION PRACTICES TO TITLE 17, CALIFORNIA CODE OF REGULATIONS SECTION 3



CONSULTANT

AGENCY

2022 CALIFORNIA GREEN BUILDING STANDARDS CODE

RESIDENTIAL MANDATORY MEASURES SHEET 1 (JANUARY 2023)

CHAPTER 1 - ADMINISTRATION

SECTION 101 GENERAL

101.1 TITLE
THESE REGULATIONS SHALL BE KNOWN AS THE CALIFORNIA GREEN BUILDING STANDARDS CODE AND MAY BE CITED AS SUCH AND WILL BE REFERRED TO HEREIN AS "THIS CODE." IT IS INTENDED THAT IT SHALL ALSO BE KNOWN AS THE CALGREEN CODE. THE CALIFORNIA GREEN BUILDING STANDARDS CODE IS PART 11 OF THIRTEEN PARTS OF THE OFFICIAL COMPILATION AND PUBLICATION OF THE ADOPTION, AMENDMENT AND REFERRAL OF BUILDING REGULATIONS TO THE CALIFORNIA CODE OF REGULATIONS, TITLE 24, ALSO REFERRED TO AS THE CALIFORNIA BUILDING STANDARDS CODE.

101.2 PURPOSE.
THE PURPOSE OF THIS CODE IS TO IMPROVE PUBLIC HEALTH, SAFETY AND GENERAL WELFARE BY ENHANCING THE DESIGN AND CONSTRUCTION OF BUILDINGS THROUGH THE USE OF BUILDING CONCEPTS HAVING A REDUCED NEGATIVE IMPACT OR POSITIVE ENVIRONMENTAL IMPACT AND ENCOURAGING SUSTAINABLE CONSTRUCTION PRACTICES IN THE FOLLOWING CATEGORIES:
1. PLANNING AND DESIGN.
2. ENERGY EFFICIENCY.
3. WATER EFFICIENCY AND CONSERVATION.
4. MATERIAL, CONSERVATION AND RESOURCE EFFICIENCY.
5. ENVIRONMENTAL QUALITY.

101.3 SCOPE.
THE PROVISIONS OF THIS CODE SHALL APPLY TO THE PLANNING, DESIGN, OPERATION, CONSTRUCTION, USE AND OCCUPANCY OF EVERY NEWLY CONSTRUCTED BUILDING OR STRUCTURE, UNLESS OTHERWISE INDICATED IN THIS CODE, THROUGHOUT THE STATE OF CALIFORNIA.

IT IS NOT THE INTENT THAT THIS CODE SUBSTITUTE OR BE IDENTIFIED AS MEETING THE CERTIFICATION REQUIREMENTS OF ANY GREEN BUILDING PROGRAM.

SECTION 102 CONSTRUCTION DOCUMENTS AND INSTALLATION VERIFICATION

102.1 SUBMITTAL DOCUMENTS.
CONSTRUCTION DOCUMENTS AND OTHER DATA SHALL BE SUBMITTED IN ONE OR MORE SETS WITH EACH APPLICATION FOR A PERMIT, WHERE SPECIAL CONDITIONS EXIST, THE ENFORCING AGENCY IS AUTHORIZED TO REQUIRE ADDITIONAL CONSTRUCTION DOCUMENTS TO BE PREPARED BY A LICENSED DESIGN PROFESSIONAL AND MAY BE SUBMITTED SEPARATELY.

EXCEPTION: THE ENFORCING AGENCY IS AUTHORIZED TO WAIVE THE SUBMISSION OF CONSTRUCTION DOCUMENTS AND OTHER DATA NOT REQUIRED TO BE PREPARED BY A LICENSED DESIGN PROFESSIONAL.

102.2 INFORMATION ON CONSTRUCTION DOCUMENTS.
CONSTRUCTION DOCUMENTS SHALL BE OF SUFFICIENT CLARITY TO INDICATE THE LOCATION, NATURE AND SCOPE OF THE PROPOSED GREEN BUILDING FEATURE AND SHOW THAT IT WILL CONFORM TO THE PROVISIONS OF THIS CODE, THE CALIFORNIA BUILDING STANDARDS CODE AND OTHER RELEVANT LAWS, ORDINANCES, RULES AND REGULATIONS AS DETERMINED BY THE ENFORCING AGENCY.

102.3 VERIFICATION.
DOCUMENTATION OF CONFORMANCE FOR APPLICABLE GREEN BUILDING MEASURES SHALL BE PROVIDED TO THE ENFORCING AGENCY. ALTERNATE METHODS OF DOCUMENTATION SHALL BE ACCEPTABLE WHEN THE ENFORCING AGENCY FINDS THAT THE PROPOSED ALTERNATE DOCUMENTATION IS SATISFACTORY TO DEMONSTRATE SUBSTANTIAL CONFORMANCE WITH THE INTENT OF THE PROPOSED GREEN BUILDING MEASURE.

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.

301.1.1 ADDITIONS AND ALTERATIONS, [HCD]
THE PROVISIONS OF CHAPTER 4 SHALL BE APPLIED TO ADDITIONS OR ALTERATIONS OF EXISTING RESIDENTIAL BUILDINGS WHERE THE ADDITION OR ALTERATION INCREASES THE BUILDING'S CONDITIONED AREA, VOLUME, OR SIZE. THE REQUIREMENTS SHALL APPLY ONLY TO AND/OR WITHIN THE SPECIFIC AREA OF THE ADDITION OR ALTERATION.

THE MANDATORY PROVISIONS OF SECTION 4.106.4.2 MAY APPLY TO ADDITIONS OR ALTERATIONS OF EXISTING PARKING FACILITIES OR THE ADDITION OF NEW PARKING FACILITIES SERVING EXISTING MULTIFAMILY BUILDINGS. SEE SECTION 4.106.4.3 FOR APPLICATION.

NOTE: REPAIRS INCLUDING, BUT NOT LIMITED TO, RESURFACING, RESTRIPIING, AND REPAIRING OR MAINTAINING EXISTING LIGHTING FIXTURES ARE NOT CONSIDERED ALTERATIONS FOR THE PURPOSE OF THIS SECTION.

301.2 LOW-RISE AND HIGH-RISE RESIDENTIAL BUILDINGS [HCD].
THE PROVISIONS OF INDIVIDUAL SECTIONS OF CALGREEN MAY APPLY TO EITHER LOW-RISE RESIDENTIAL BUILDINGS, HIGH-RISE RESIDENTIAL BUILDINGS, OR BOTH. INDIVIDUAL SECTIONS WILL BE DESIGNATED BY BANNERS TO INDICATE WHERE THE SECTION APPLIES SPECIFICALLY TO LOW-RISE ONLY (LR) OR HIGH-RISE ONLY (HR). WHEN THE SECTION APPLIES TO BOTH LOW-RISE AND HIGH-RISE BUILDINGS, NO BANNER WILL BE USED.

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.

CHAPTER 4 - RESIDENTIAL MANDATORY MEASURES

DIVISION 4.1 PLANNING AND DESIGN

4.106 SITE DEVELOPMENT

4.106.1 GENERAL.
PRESERVATION AND USE OF AVAILABLE NATURAL RESOURCES SHALL BE ACCOMPLISHED THROUGH EVALUATION AND CAREFUL PLANNING TO MINIMIZE NEGATIVE EFFECTS ON THE SITE AND ADJACENT AREAS. PRESERVATION OF SLOPES, MANAGEMENT OF STORM WATER DRAINAGE AND EROSION CONTROLS SHALL COMPLY WITH THIS SECTION.

4.106.2 STORM WATER DRAINAGE AND RETENTION DURING CONSTRUCTION
PROJECTS WHICH DISTURB LESS THAN ONE ACRE OF SOIL AND ARE NOT PART OF A LARGER COMMON PLAN OF DEVELOPMENT WHICH IN TOTAL DISTURBS ONE ACRE OR MORE, SHALL MANAGE STORM WATER DRAINAGE DURING CONSTRUCTION. IN ORDER TO MANAGE STORM WATER DRAINAGE DURING CONSTRUCTION, ONE OR MORE OF THE FOLLOWING MEASURES SHALL BE IMPLEMENTED TO PREVENT FLOODING OF ADJACENT PROPERTY, PREVENT EROSION AND RETAIN SOIL RUNOFF ON THE SITE.
1. RETENTION BASINS OF SUFFICIENT SIZE SHALL BE UTILIZED TO RETAIN STORM WATER ON THE SITE.
2. WHERE STORM WATER IS CONVEYED TO A PUBLIC DRAINAGE SYSTEM, COLLECTION POINT, GUTTER OR SIMILAR DISPOSAL METHOD, WATER SHALL BE FILTERED BY USE OF A BARRIER SYSTEM, WATTLE OR OTHER METHOD APPROVED BY THE ENFORCING AGENCY.
3. COMPLIANCE WITH A LAWFULLY ENACTED STORM WATER MANAGEMENT ORDINANCE.

4.106.3 GRADING AND PAVING
CONSTRUCTION PLANS SHALL INDICATE HOW THE SITE GRADING OR 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.

EXCEPTIONS: ADDITIONS AND ALTERATIONS NOT ALTERING THE DRAINAGE PATH.
4.106.4 ELECTRIC VEHICLE (EV) CHARGING FOR NEW CONSTRUCTION
NEW CONSTRUCTION SHALL COMPLY WITH SECTION 4.106.4.1, 4.106.4.2, OR 4.106.4.3 TO FACILITATE FUTURE INSTALLATION AND USE OF EV CHARGERS. ELECTRIC VEHICLE SUPPLY EQUIPMENT (EVSE) SHALL BE INSTALLED IN ACCORDANCE WITH THE CALIFORNIA ELECTRICAL CODE, ARTICLE 625.
1. **EXCEPTIONS:** ON A CASE-BY-CASE BASIS, WHERE THE LOCAL ENFORCING AGENCY HAS DETERMINED EV CHARGING AND INFRASTRUCTURE ARE NOT FEASIBLE BASED UPON ONE OR MORE OF THE FOLLOWING CONDITIONS:
a. WHERE THERE IS NO LOCAL UTILITY POWER SUPPLY OR THE LOCAL UTILITY IS UNABLE TO SUPPLY ADEQUATE POWER.
b. 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 4.106.4, MAY ADVERSELY IMPACT THE CONSTRUCTION COST OF THE PROJECT.
2. ACCESSORY DWELLING UNITS (ADU) AND JUNIOR ACCESSORY DWELLING UNITS (JADU) WITHOUT ADDITIONAL PARKING FACILITIES.

EXCEPTION: WHEN EV CHARGERS (LEVEL 2 EVSE) ARE INSTALLED IN A NUMBER GREATER THAN FIVE (5) PERCENT OF PARKING SPACES REQUIRED BY SECTION 4.106.4.2.2, ITEM 3, THE NUMBER OF EV CAPABLE SPACES REQUIRED MAY BE REDUCED BY A NUMBER EQUAL TO THE NUMBER OF EV CHARGERS INSTALLED OVER THE FIVE (5) PERCENT REQUIRED.

NOTES:
a. CONSTRUCTION DOCUMENTS SHALL SHOW LOCATIONS OF FUTURE EV SPACES.
b. THERE IS NO REQUIREMENT FOR EV SPACES TO BE CONSTRUCTED OR AVAILABLE UNTIL RECEPTACLES FOR EV CHARGING OR EV CHARGERS ARE INSTALLED FOR USE.

4.106.4.1 NEW ONE- AND TWO-FAMILY DWELLINGS AND TOWNHOUSES WITH ATTACHED PRIVATE GARAGES
FOR EACH DWELLING UNIT, INSTALL A LISTED RACEWAY TO ACCOMMODATE A DEDICATED 208/240-VOLT BRANCH CIRCUIT. THE RACEWAY SHALL NOT BE LESS THAN TRADE SIZE 1 (NOMINAL 1-INCH INSIDE DIAMETER). THE RACEWAY SHALL ORIGINATE AT THE MAIN SERVICE OR SUBPANEL AND SHALL TERMINATE INTO A LISTED CABINET, BOX OR OTHER ENCLOSURE IN CLOSE PROXIMITY TO THE PROPOSED LOCATION OF AN EV CHARGER. RACEWAYS ARE REQUIRED TO BE CONTINUOUS AT ENCLOSED, INACCESSIBLE OR CONCEALED AREAS AND SPACES. THE SERVICE PANEL AND/OR SUBPANEL SHALL PROVIDE CAPACITY TO INSTALL A 40-AMPERE 208/240-VOLT MINIMUM DEDICATED BRANCH CIRCUIT AND SPACE(S) RESERVED TO PERMIT INSTALLATION OF A BRANCH CIRCUIT OVERCURRENT PROTECTION DEVICE.
EXCEPTION: A RACEWAY IS NOT REQUIRED IF A MINIMUM 40-AMPERE 208/240-VOLT DEDICATED EV BRANCH CIRCUIT IS INSTALLED IN CLOSE PROXIMITY TO THE PROPOSED LOCATION OF AN EV CHARGER AT THE TIME OF ORIGINAL CONSTRUCTION IN ACCORDANCE WITH THE CALIFORNIA ELECTRICAL CODE.

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

4.106.4.2 NEW MULTIFAMILY DWELLINGS, HOTELS AND MOTELS AND NEW RESIDENTIAL PARKING FACILITIES.
WHEN PARKING IS PROVIDED, PARKING SPACES FOR NEW MULTIFAMILY DWELLINGS, HOTELS AND MOTELS SHALL MEET THE REQUIREMENTS OF SECTIONS 4.106.4.2.1 AND 4.106.4.2.2. CALCULATIONS FOR SPACES SHALL BE ROUNDED UP TO THE NEAREST WHOLE NUMBER. A PARKING SPACE SERVED BY ELECTRIC VEHICLE SUPPLY EQUIPMENT OR DESIGNED AS A FUTURE EV CHARGING STATION 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 A LOCAL JURISDICTION. SEE VEHICLE CODE SECTION 22511.2 FOR FURTHER DETAILS.

4.106.4.2.1 MULTIFAMILY DEVELOPMENT PROJECTS WITH LESS THAN 20 DWELLING UNITS; AND HOTELS AND MOTELS WITH LESS THAN 20 SLEEPING UNITS OR GUEST ROOMS
THE NUMBER OF DWELLING UNITS, SLEEPING UNITS OR GUEST ROOMS SHALL BE BASED ON ALL BUILDINGS ON A PROJECT SITE SUBJECT TO THIS SECTION.

1. **EV CAPABLE.** TEN (10) PERCENT OF THE TOTAL NUMBER OF PARKING SPACES ON A BUILDING SITE, PROVIDED FOR ALL TYPES OF PARKING FACILITIES, SHALL BE ELECTRIC VEHICLE CHARGING SPACES (EV SPACES) CAPABLE OF SUPPORTING FUTURE LEVEL 2 EVSE. ELECTRICAL LOAD CALCULATIONS SHALL DEMONSTRATE THAT THE ELECTRICAL PANEL, SERVICE CAPACITY AND ELECTRICAL SYSTEM, INCLUDING ANY ON-SITE DISTRIBUTION TRANSFORMER(S), HAVE SUFFICIENT CAPACITY TO SIMULTANEOUSLY CHARGE ALL EVS AT ALL REQUIRED EV SPACES AT A MINIMUM OF 40 AMPERES.

2. WHEN EV CHARGERS (LEVEL 2 EVSE) ARE INSTALLED IN A NUMBER EQUAL TO OR GREATER THAN THE REQUIRED NUMBER OF EV CAPABLE SPACES.

3. WHEN EV CHARGERS (LEVEL 2 EVSE) ARE INSTALLED IN A NUMBER LESS THAN THE REQUIRED NUMBER OF EV CAPABLE SPACES, THE NUMBER OF EV CAPABLE SPACES REQUIRED MAY BE REDUCED BY A NUMBER EQUAL TO THE NUMBER OF EV CHARGERS INSTALLED.

NOTES:
a. CONSTRUCTION DOCUMENTS ARE INTENDED TO DEMONSTRATE THE PROJECT'S CAPABILITY AND CAPACITY FOR FACILITATING FUTURE EV CHARGING.
b. THERE IS NO REQUIREMENT FOR EV SPACES TO BE CONSTRUCTED OR AVAILABLE UNTIL RECEPTACLES FOR EV CHARGING OR EV CHARGERS ARE INSTALLED FOR USE.

2. EV READY. TWENTY-FIVE (25) PERCENT OF THE TOTAL NUMBER OF PARKING SPACES SHALL BE EQUIPPED WITH LOW POWER LEVEL 2 EV CHARGING RECEPTACLES. FOR MULTIFAMILY PARKING FACILITIES, NO MORE THAN ONE RECEPTACLE IS REQUIRED PER DWELLING UNIT WHEN MORE THAN ONE PARKING SPACE IS PROVIDED FOR USE BY A SINGLE DWELLING UNIT.
EXCEPTION: AREAS OF PARKING FACILITIES SERVED BY PARKING LIFTS.

4.106.4.2.2 MULTIFAMILY DEVELOPMENT PROJECTS WITH 20 OR MORE DWELLING UNITS, HOTELS AND MOTELS WITH 20 OR MORE SLEEPING UNITS OR GUEST ROOMS
THE NUMBER OF DWELLING UNITS, SLEEPING UNITS OR GUEST ROOMS SHALL BE BASED ON ALL BUILDINGS ON A PROJECT SITE SUBJECT TO THIS SECTION.

1. EV CAPABLE. TEN (10) PERCENT OF THE TOTAL NUMBER OF PARKING SPACES ON A BUILDING SITE, PROVIDED FOR ALL TYPES OF PARKING FACILITIES, SHALL BE ELECTRIC VEHICLE CHARGING SPACES (EV SPACES) CAPABLE OF SUPPORTING FUTURE LEVEL 2 EVSE. ELECTRICAL LOAD CALCULATIONS SHALL DEMONSTRATE THAT THE ELECTRICAL PANEL, SERVICE CAPACITY AND ELECTRICAL SYSTEM, INCLUDING ANY ON-SITE DISTRIBUTION TRANSFORMER(S), HAVE SUFFICIENT CAPACITY TO SIMULTANEOUSLY CHARGE ALL EVS AT ALL REQUIRED EV SPACES AT A MINIMUM OF 40 AMPERES.

2. WHEN EV CHARGERS (LEVEL 2 EVSE) ARE INSTALLED IN A NUMBER GREATER THAN FIVE (5) PERCENT OF PARKING SPACES REQUIRED BY SECTION 4.106.4.2.2, ITEM 3, THE NUMBER OF EV CAPABLE SPACES REQUIRED MAY BE REDUCED BY A NUMBER EQUAL TO THE NUMBER OF EV CHARGERS INSTALLED OVER THE FIVE (5) PERCENT REQUIRED.

NOTES:
a. CONSTRUCTION DOCUMENTS SHALL SHOW LOCATIONS OF FUTURE EV SPACES.
b. THERE IS NO REQUIREMENT FOR EV SPACES TO BE CONSTRUCTED OR AVAILABLE UNTIL RECEPTACLES FOR EV CHARGING OR EV CHARGERS ARE INSTALLED FOR USE.

2. EV READY. TWENTY-FIVE (25) PERCENT OF THE TOTAL NUMBER OF PARKING SPACES SHALL BE EQUIPPED WITH LOW POWER LEVEL 2 EV CHARGING RECEPTACLES. FOR MULTIFAMILY PARKING FACILITIES, NO MORE THAN ONE RECEPTACLE IS REQUIRED PER DWELLING UNIT WHEN MORE THAN ONE PARKING SPACE IS PROVIDED FOR USE BY A SINGLE DWELLING UNIT.
EXCEPTION: AREAS OF PARKING FACILITIES SERVED BY PARKING LIFTS.

3. EV CHARGERS. FIVE (5) PERCENT OF THE TOTAL NUMBER OF PARKING SPACES SHALL BE EQUIPPED WITH LEVEL 2 EVSE, WHERE COMMON USE PARKING IS PROVIDED. AT LEAST ONE EV CHARGER SHALL BE LOCATED IN THE COMMON USE PARKING AREA AND SHALL BE AVAILABLE FOR USE BY ALL RESIDENTS OR GUESTS. WHEN LOW POWER LEVEL 2 EV CHARGING RECEPTACLES OR LEVEL 2 EVSE ARE INSTALLED BEYOND THE MINIMUM REQUIRED, AN AUTOMATIC LOAD MANAGEMENT SYSTEM (ALMS) MAY BE USED TO REDUCE THE MAXIMUM REQUIRED ELECTRICAL CAPACITY TO EACH SPACE. RECEPTACLES OR EVSE SHALL BE INSTALLED IN CLOSE PROXIMITY TO THE PROPOSED LOCATION OF AN EV CHARGER AT THE TIME OF ORIGINAL CONSTRUCTION IN ACCORDANCE WITH THE CALIFORNIA ELECTRICAL CODE.

4.106.4.2.1 ELECTRIC VEHICLE CHARGING STATIONS (EVCS)
ELECTRIC VEHICLE CHARGING STATIONS REQUIRED BY SECTION 4.106.4.2.2, ITEM 3, SHALL COMPLY WITH SECTION 4.106.4.2.2.1.

EXCEPTION: ELECTRIC VEHICLE CHARGING STATIONS SERVING PUBLIC ACCOMMODATIONS, PUBLIC HOUSING, MOTELS AND HOTELS SHALL NOT BE REQUIRED TO COMPLY WITH THIS SECTION. SEE CALIFORNIA BUILDING CODE, CHAPTER 11B, FOR APPLICABLE REQUIREMENTS.

4.106.4.2.2.1 LOCATION

1. EVCS SHALL COMPLY WITH AT LEAST ONE OF THE FOLLOWING OPTIONS:
THE CHARGING SPACE SHALL BE LOCATED ADJACENT TO AN ACCESSIBLE PARKING SPACE MEETING THE REQUIREMENTS OF THE CALIFORNIA BUILDING CODE, CHAPTER 11A, TO ALLOW USE OF THE EV CHARGER FROM THE ACCESSIBLE PARKING SPACE.
2. THE CHARGING SPACE SHALL BE LOCATED ON AN ACCESSIBLE ROUTE, AS DEFINED IN THE CALIFORNIA BUILDING CODE, CHAPTER 2, TO THE BUILDING.

EXCEPTION: ELECTRIC VEHICLE CHARGING STATIONS DESIGNED AND CONSTRUCTED IN COMPLIANCE WITH THE CALIFORNIA BUILDING CODE, CHAPTER 11B, ARE NOT REQUIRED TO COMPLY WITH SECTION 4.106.4.2.2.1 AND SECTION 4.106.4.2.2.2, ITEM 3.

4.106.4.2.2.2 ELECTRIC VEHICLE CHARGING STATIONS (EVCS) DIMENSIONS

THE CHARGING SPACES SHALL BE DESIGNED TO COMPLY WITH THE FOLLOWING:

1. THE MINIMUM LENGTH OF EACH EV SPACE SHALL BE 18 FEET.
2. THE MINIMUM WIDTH OF EACH EV SPACE SHALL BE 9 FEET.
3. ONE IN EVERY 25 CHARGING SPACES, BUT NOT LESS THAN ONE, SHALL ALSO HAVE AN 8-FOOT WIDE MINIMUM AISLE. A 5-FOOT WIDE MINIMUM AISLE SHALL BE PERMITTED PROVIDED THE MINIMUM WIDTH OF THE EV SPACE IS 12 FEET.
a. SURFACE SLOPE FOR THIS EV SPACE AND THE AISLE SHALL NOT EXCEED 1 UNIT VERTICAL IN 48 UNITS HORIZONTAL. (2.083 PERCENT SLOPE) IN ANY DIRECTION.

4.106.4.2.2.3 ACCESSIBLE EV SPACES

IN ADDITION TO THE REQUIREMENTS IN SECTIONS 4.106.4.2.2.1 AND 4.106.4.2.2.2, ALL EVSE, WHEN INSTALLED, SHALL COMPLY WITH THE ACCESSIBILITY PROVISIONS FOR EV CHARGERS IN THE CALIFORNIA BUILDING CODE, CHAPTER 11B. EV READY SPACES AND EVCS IN MULTIFAMILY DEVELOPMENTS SHALL COMPLY WITH CALIFORNIA BUILDING CODE, CHAPTER 11A, SECTION 1105A.

4.106.4.2.3 EV SPACE REQUIREMENTS

1. **SINGLE EV SPACE REQUIRED.** INSTALL A LISTED RACEWAY CAPABLE OF ACCOMMODATING A 208/240-VOLT DEDICATED BRANCH CIRCUIT. THE RACEWAY SHALL NOT BE LESS THAN TRADE SIZE 1 (NOMINAL 1-INCH INSIDE DIAMETER). THE RACEWAY SHALL ORIGINATE AT THE MAIN SERVICE OR SUBPANEL AND SHALL TERMINATE INTO A LISTED CABINET, BOX OR ENCLOSURE IN CLOSE PROXIMITY TO THE LOCATION OR THE PROPOSED LOCATION OF THE EV SPACE. CONSTRUCTION DOCUMENTS SHALL IDENTIFY THE RACEWAY TERMINATION POINT, RECEPTACLE OR CHARGER LOCATION, AS APPLICABLE. THE SERVICE PANEL AND/OR SUBPANEL SHALL HAVE A 40-AMPERE MINIMUM DEDICATED BRANCH CIRCUIT, INCLUDING BRANCH CIRCUIT OVERCURRENT PROTECTIVE DEVICE INSTALLED, OR SPACE(S) RESERVED TO PERMIT INSTALLATION OF A BRANCH CIRCUIT OVERCURRENT PROTECTIVE DEVICE.

EXCEPTION: A RACEWAY IS NOT REQUIRED IF A MINIMUM 40-AMPERE 208/240-VOLT DEDICATED EV BRANCH CIRCUIT IS INSTALLED IN CLOSE PROXIMITY TO THE LOCATION OR THE PROPOSED LOCATION OF THE EV SPACE AT THE TIME OF ORIGINAL CONSTRUCTION IN ACCORDANCE WITH THE CALIFORNIA ELECTRICAL CODE.

2. **MULTIPLE EV SPACES REQUIRED.** CONSTRUCTION DOCUMENTS SHALL INDICATE THE RACEWAY TERMINATION POINT AND THE LOCATION OF INSTALLED OR FUTURE EV SPACES, RECEPTACLES OR EV CHARGERS. CONSTRUCTION DOCUMENTS SHALL ALSO PROVIDE INFORMATION ON AMPERAGE OF INSTALLED OR FUTURE RECEPTACLES OR EVSE, RACEWAY METHOD(S), WIRING SCHEMATICS AND IDENTIFY THE REQUIREMENTS IN THE CALIFORNIA CODE OF REGULATIONS, TITLE 20 (APPLIANCE EFFICIENCY REGULATIONS), SECTIONS 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.

EXCEPTION: A RACEWAY IS NOT REQUIRED IF A MINIMUM 40-AMPERE 208/240-VOLT DEDICATED EV BRANCH CIRCUIT IS INSTALLED IN CLOSE PROXIMITY TO THE LOCATION OR THE PROPOSED LOCATION OF THE EV SPACE AT THE TIME OF ORIGINAL CONSTRUCTION IN ACCORDANCE WITH THE CALIFORNIA ELECTRICAL CODE.

4.106.4.2.4 IDENTIFICATION

THE SERVICE PANEL OR SUBPANEL CIRCUIT DIRECTORY SHALL IDENTIFY THE OVERCURRENT PROTECTIVE DEVICE SPACE(S) RESERVED FOR FUTURE EV CHARGING PURPOSES AS "EV CAPABLE" IN ACCORDANCE WITH THE CALIFORNIA ELECTRICAL CODE.

4.106.4.2.5 ELECTRIC VEHICLE READY SPACE SIGNAGE

ELECTRIC VEHICLE READY SPACES 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).

4.106.4.3 ELECTRIC VEHICLE CHARGING FOR ADDITIONS AND ALTERATIONS OF PARKING FACILITIES SERVING EXISTING MULTIFAMILY BUILDINGS

WHEN NEW PARKING FACILITIES ARE ADDED, OR ELECTRICAL SYSTEMS OR LIGHTING OF EXISTING PARKING FACILITIES ARE ADDED OR ALTERED AND THE WORK REQUIRES A BUILDING PERMIT, TEN (10) PERCENT OF THE TOTAL NUMBER OF PARKING SPACES ADDED OR ALTERED SHALL BE ELECTRIC VEHICLE CHARGING SPACES (EV SPACES) CAPABLE OF SUPPORTING FUTURE LEVEL 2 EVSE.

NOTES:
1. CONSTRUCTION DOCUMENTS ARE INTENDED TO DEMONSTRATE THE PROJECT'S CAPABILITY AND CAPACITY FOR FACILITATING FUTURE EV CHARGING.
2. THERE IS NO REQUIREMENT FOR EV SPACES TO BE CONSTRUCTED OR AVAILABLE UNTIL EV CHARGERS ARE INSTALLED FOR USE.

DIVISION 4.2 ENERGY EFFICIENCY

4.201 GENERAL

4.201.1 SCOPE.
FOR THE PURPOSES OF MANDATORY ENERGY EFFICIENCY STANDARDS IN THIS CODE, THE CALIFORNIA ENERGY COMMISSION WILL CONTINUE TO ADOPT MANDATORY STANDARDS.

DIVISION 4.3 WATER EFFICIENCY AND CONSERVATION

4.303 INDOOR WATER USE

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

NOTE: ALL NONCOMPLIANT PLUMBING FIXTURES IN ANY RESIDENTIAL REAL PROPERTY SHALL BE REPLACED WITH WATER-CONSERVING PLUMBING FIXTURES. PLUMBING FIXTURE REPLACEMENT IS REQUIRED PRIOR TO ISSUANCE OF A CERTIFICATE OF FINAL COMPLETION, CERTIFICATE OF OCCUPANCY, OR FINAL PERMIT APPROVAL BY THE LOCAL BUILDING DEPARTMENT. SEE CIVIL CODE SECTION 1101.1, ET SEQ., FOR THE DEFINITION OF A NONCOMPLIANT PLUMBING FIXTURE, TYPES OF RESIDENTIAL BUILDINGS AFFECTED AND OTHER IMPORTANT ENACTMENT DATES.

4.303.1.1 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 TOILET.
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.

4.303.1.2 URINALS

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

4.303.1.3 SHOWERHEADS

4.303.1.3.1 SINGLE SHOWERHEAD
SHOWERHEADS SHALL HAVE A MAXIMUM FLOW RATE OF NOT MORE THAN 2.0 GALLONS PER MINUTE AT 80 PSI. SHOWERHEADS SHALL BE CERTIFIED TO THE PERFORMANCE CRITERIA OF THE U.S. EPA WATERSENSE SPECIFICATION FOR SHOWERHEADS.

4.303.1.3.2 MULTIPLE SHOWERHEADS SERVING ONE SHOWER
WHEN A SHOWER IS SERVED BY MORE THAN ONE SHOWERHEAD, THE COMBINED FLOW RATE OF ALL SHOWERHEADS AND/OR OTHER SHOWER OUTLETS CONTROLLED BY A SINGLE VALVE SHALL NOT EXCEED 2.0 GALLONS PER MINUTE AT 80 PSI. NO 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.

4.303.1.4 FAUCETS

4.303.1.4.1 RESIDENTIAL LAVATORY FAUCETS
THE MAXIMUM FLOW RATE OF RESIDENTIAL LAVATORY FAUCETS SHALL NOT EXCEED 1.2 GALLONS PER MINUTE AT 60 PSI. THE MINIMUM FLOW RATE OF RESIDENTIAL LAVATORY FAUCETS SHALL NOT BE LESS THAN 0.8 GALLONS PER MINUTE AT 20 PSI.

4.303.1.4.2 LAVATORY FAUCETS IN COMMON AND PUBLIC USE AREAS
THE MAXIMUM FLOW RATE OF LAVATORY FAUCETS INSTALLED IN COMMON AND PUBLIC USE AREAS (OUTSIDE OF DWELLINGS OR SLEEPING UNITS) IN RESIDENTIAL BUILDINGS SHALL NOT EXCEED 0.5 GALLONS PER MINUTE AT 60 PSI.

4.303.1.4.3 METERING FAUCETS
METERING FAUCETS WHEN INSTALLED IN RESIDENTIAL BUILDINGS SHALL NOT DELIVER MORE THAN 0.25 GALLONS PER CYCLE.

4.303.1.4.4 KITCHEN FAUCETS

THE MAXIMUM FLOW RATE OF KITCHEN FAUCETS SHALL NOT EXCEED 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.

NOTE: WHERE COMPLYING FAUCETS ARE UNAVAILABLE, AERATORS OR OTHER MEANS MAY BE USED TO ACHIEVE REDUCTION.

4.303.1.4.5 PRE-RINSE SPRAY VALVES
WHEN INSTALLED, THEY MEET THE REQUIREMENTS IN THE CALIFORNIA CODE OF REGULATIONS, TITLE 20 (APPLIANCE EFFICIENCY REGULATIONS), SECTIONS 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.

4.303.2 SUBMETERS FOR MULTIFAMILY BUILDINGS AND DWELLING UNITS IN MIXED-USE RESIDENTIAL/COMMERCIAL BUILDINGS

SUBMETERS SHALL BE INSTALLED TO MEASURE WATER USAGE OF INDIVIDUAL RENTAL DWELLING UNITS IN ACCORDANCE WITH THE CALIFORNIA PLUMBING CODE.

4.303.3 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.

NOTE: THIS TABLE COMPLETES THE DATA IN SECTION 4.303.1 AND IS INCLUDED AS A CONVENIENCE FOR THE USER.

TABLE - MAXIMUM FIXTURE WATER USE	
FIXTURE TYPE	FLOW RATE
SHOWER HEADS (RESIDENTIAL)	1.8 GMP @ 80 PSI
LAVATORY FAUCETS (RESIDENTIAL)	MAX. 1.2 GPM @ 80 PSI MIN. 0.8 GPM @ 20 PSI
LAVATORY FAUCETS IN COMMON & PUBLIC USE AREAS	0.5 GPM @ 60 PSI
KITCHEN FAUCETS	1.8 GPM @ 60 PSI
METERING FAUCETS	0.2 GAL/CYCLE
WATER CLOSET	1.28 GAL/FLUSH
URINALS	0.125 GAL/FLUSH

4.304 OUTDOOR WATER USE

4.304.1 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS
AFTER DECEMBER 1, 2015, NEW RESIDENTIAL DEVELOPMENTS WITH AN AGGREGATE LANDSCAPE AREA EQUAL TO OR GREATER THAN 500 SQUARE FEET SHALL COMPLY WITH ONE OF THE FOLLOWING OPTIONS:

1. A LOCAL WATER EFFICIENT LANDSCAPE ORDINANCE OR THE CURRENT CALIFORNIA DEPARTMENT OF WATER RESOURCES MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO) WHICHEVER IS MORE STRINGENT; OR
2. PROJECTS WITH AGGREGATE LANDSCAPE AREAS LESS THAN 2,500 SQUARE FEET MAY COMPLY WITH THE MWELO'S APPENDIX D PRESCRIPTIVE COMPLIANCE OPTION.

NOTES:
1. THE MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO) AND SUPPORTING DOCUMENTS ARE AVAILABLE AT: <http://www.water.ca.gov/wateruseefficiency/landscapordinance/>
2. A WATER BUDGET CALCULATOR IS AVAILABLE AT: <http://www.water.ca.gov/wateruseefficiency/landscapordinance/>

DIVISION 4.4 MATERIAL CONSERVATION AND RESOURCE EFFICIENCY

4.406 ENHANCED DURABILITY AND REDUCED MAINTENANCE

4.406.1 RODENT PROOFING

ANNUAL SPACES AROUND PIPES, ELECTRIC CABLES, CONDUITS OR OTHER OPENINGS IN SOLE/BOTTOM PLATES AT EXTERIOR WALLS SHALL BE PROTECTED AGAINST THE PASSAGE OF RODENTS BY CLOSING SUCH OPENINGS WITH CEMENT MORTAR, CONCRETE MASONRY OR A SIMILAR METHOD ACCEPTABLE TO THE ENFORCING AGENCY.

4.408 CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING

4.408.1 CONSTRUCTION WASTE MANAGEMENT
RECYCLE AND/OR SALVAGE FOR REUSE A MINIMUM OF 65 PERCENT OF THE NONHAZARDOUS CONSTRUCTION AND DEMOLITION WASTE IN ACCORDANCE WITH EITHER SECTION 4.408.2, 4.408.3, OR 4.408.4, OR MEET A MORE STRINGENT LOCAL CONSTRUCTION AND DEMOLITION WASTE MANAGEMENT ORDINANCE.

EXCEPTIONS:
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 OR ARE NOT LOCATED REASONABLY CLOSE TO THE JOBSITE.
3. THE ENFORCING AGENCY MAY MAKE EXCEPTIONS TO THE REQUIREMENTS OF THIS SECTION WHEN ISOLATED JOBSITE ARE LOCATED IN AREAS BEYOND THE HAUL BOUNDARIES OF THE DIVERSION FACILITY.

4.408.2 CONSTRUCTION WASTE MANAGEMENT PLAN

SUBMIT A CONSTRUCTION WASTE MANAGEMENT PLAN IN CONFORMANCE WITH ITEMS 1 THROUGH 5. THE CONSTRUCTION WASTE MANAGEMENT PLAN SHALL BE UPDATED AS NECESSARY AND SHALL BE AVAILABLE DURING CONSTRUCTION FOR INSPECTION BY THE ENFORCING AGENCY.

1. IDENTIFY THE CONSTRUCTION AND DEMOLITION WASTE MATERIALS TO BE DIVERTED FROM DISPOSAL BY RECYCLING, REUSE ON THE PROJECT OR SALVAGE FOR FUTURE USE OR SALE.

DAISY APARTMENTS DOOR AND



DIVISION 4.4 MATERIAL CONSERVATION CONTINUED

- HEATING AND AIR-CONDITIONING SYSTEMS SHALL BE SIZED, DESIGNED AND HAVE THEIR EQUIPMENT SELECTED USING THE FOLLOWING METHODS:
1. THE HEAT LOSS AND HEAT GAIN IS ESTABLISHED ACCORDING TO ANSI/ACCA 2 MANUAL S—2014 (RESIDENTIAL EQUIPMENT SELECTION), ASHRAE HANDBOOKS OR OTHER EQUIVALENT DESIGN SOFTWARE OR METHODS.
 2. DUCT SYSTEMS ARE SIZED ACCORDING TO ANSI/ACCA 1 MANUAL D—2014 (RESIDENTIAL DUCT SYSTEMS), ASHRAE HANDBOOKS OR OTHER EQUIVALENT DESIGN SOFTWARE OR METHODS.
 3. SELECT HEATING AND COOLING EQUIPMENT ACCORDING TO ANSI/ACCA 3 MANUAL S—2014 (RESIDENTIAL EQUIPMENT SELECTION) OR OTHER EQUIVALENT DESIGN SOFTWARE OR METHODS.

SECTION 07 25 00
WEATHER BARRIERS
DuPont™ Tyvek® HomeWrap®

1.1 SECTION INCLUDES

- ## 1.2 REFERENCES

- ### 1.3 SUBMITTALS

- #### 1.4 QUALITY ASSURANCE

- ### 3.8 THRU-WALL FLASHING INSTALLATION

- ### 3.11 THRU-WALL FLASHING / WEATHER BARRIER INTERFACE AT WINDOW HEAD

- A. Cut flap in weather barrier at window head.
- B. Prime exposed sheathing.
- C. Install lintel as required. Verify end dams extend 4 inches minimum beyond opening.
- D. Install end dams bedded in sealant.
- E. Adhere 2 inches minimum thru-wall flashing to wall sheathing. Overlap lintel with thru-wall flashing and extend 1/4 inch minimum beyond outside edge of lintel to form drip edge.
- F. Apply sealant along thru-wall flashing edges.
- G. Fold weather barrier flap back into place and tape bottom edge to thru-wall flashing.
- H. Tape diagonal cuts of weather barrier.

- ### A. Qualifications

1. Installer shall have experience with installation of similar weather barrier assemblies under similar conditions.
2. Installation shall be in accordance with manufacturer's installation guidelines and recommendations.
3. Source Limitations: Provide weather barrier and accessory materials produced by single manufacturer.

1.5 DELIVERY, STORAGE AND HANDLING

- A. Deliver weather barrier materials and components in manufacturer's original, unopened, undamaged containers with identification labels intact.
- B. Store weather barrier materials as recommended by system manufacturer.

1.6 SCHEDULING

- A. Review requirements for sequencing of installation of weather barrier assembly with installation of windows, doors, louvers and flashings to provide a weather-tight barrier assembly.

PART 2 – PRODUCTS

2.1 MANUFACTURER

- A. DuPont; 4417 Lancaster Pike, Chestnut Run Plaza 728, Wilmington, DE 19805; 1-800-44-TYVEK (8-9835); <http://www.construction.tyvek.com>

2.2 MATERIALS

- A. Basis of Design: spunbonded polyolefin, non-woven, non-perforated, weather barrier is based upon DuPont™ Tyvek/ HomeWrap® and related assembly components.
- B. Performance Characteristics:
- 1. Air Penetration: <.004 cm³/m² at 1.57 psf, when tested in accordance with ASTM E2178, Type I per ASTM E1677.
 - 2. Water Vapor Transmission: 56 perms, when tested in accordance with ASTM E96-05, Method A.
 - 3. Water Penetration Resistance: 250 cm when tested in accordance with AATCC Test Method 127.
 - 4. Basis Weight: 1.8 oz/yd², when tested in accordance with TAPPI Test Method T-410.
 - 5. Air Resistance: 1200 seconds, when tested in accordance with TAPPI Test Method T-460.
 - 6. Tensile Strength: 39/30 lbf/in., when tested in accordance with ASTM D882.
 - 7. Tear Resistance: 8/6 lbs, when tested in accordance with ASTM D1117.
 - 8. Fire: Burning Characteristics: Class A, when tested in accordance with ASTM E84, Flame Spread 15, Smoke Developed: 15

2.3 ACCESSORIES

1. Secure weather barrier flap with fasteners.

3.12 PROTECTION

- A. Protect installed weather barrier from damage.

END OF SECTION

DISCLAIMER:

DuPont Building Innovations Guide Specifications have been written as an aid to the professionally qualified specifier and design professional. The use of this guideline specification requires the sole professional judgment and expertise of the qualified specifier and design professional to adapt the information to the specific needs for the building owner and the project, to coordinate with their construction document process, and to meet all the applicable building codes, regulations and laws. DUPONT EXPRESSLY DISCLAIMS ANY WARRANTY, EXPRESSED OR IMPLIED, INCLUDING THE WARRANTY OF MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSE OF THIS PRODUCT FOR THE PROJECT.

Please contact your local DuPont™ Tyvek® Specialist at 1-800-44-Tyvek or visit www.construction.tyvek.com

- A. Seam Tape: [2] [or] [3] inch wide, DuPont™ Tyvek® Tape as distributed by DuPont Building Innovations.
- B. Fasteners:
1. DuPont™ Tyvek® Wrap Caps, as distributed by DuPont: #4 nails with large 1-inch plastic cap fasteners, or 1-inch plastic cap staples with leg length sufficient to achieve a minimum penetration of 5/8-inch into the wood stud.

- C. Sealants
2. Provide sealants that comply with ASTM C 920, elastomeric polymer sealant to maintain watertight conditions.
 3. Products:
 - a. DuPont™ Residential Sealant
 - b. DuPont™ Commercial Sealant
 - c. Sealants recommended by the weather barrier manufacturer.

- D. Adhesive:
1. Provide adhesive recommended by weather barrier manufacturer.
 2. Products:
 - a. Liquid Nails® LN-109
 - b. Denso Butyl Liquid
 - c. 3M High Strength 90
 - d. SIA 655
 - e. Adhesives recommend by the weather barrier manufacturer.

- E. Primer:
1. Wood Framed Construction: Provide flashing manufacturer recommended primer to assist in adhesion between substrate and flashing.
 2. Products:
 - a. 3M High Strength 90
 - b. Denso Butyl Spray
 - c. SIA 655
 - d. Permagrip 105
 - e. ITW TACC Sta' Put SPH
 3. Primers recommended by the flashing manufacturer

- F. Flashing
1. DuPont™ FlexWrap™, as distributed by DuPont: flexible membrane flashing materials for window openings and penetrations.
 2. DuPont™ FlexWrap™ NF, as distributed by DuPont: flexible membrane flashing materials for window openings and penetrations.
 3. DuPont™ StraightFlash™, as distributed by DuPont: straight flashing membrane materials for flashing windows and doors and sealing penetrations, masonry ties, etc.

PART 3 - EXECUTION



CONSULTANT

AGENCY



Belleville® Wood-Grain Textured & Belleville® Smooth Fiberglass Entry Doors

Part 1: GENERAL

- 1.1 **Scope:** Subject to local building codes, this product is intended for use in:
- 1.1.1 One and two family dwellings.
 - 1.1.2 Low-rise multifamily dwellings, low-rise professional offices, libraries and low-rise motels.
 - 1.1.3 Lighter use industrial buildings and factories, hotels, and retail sales buildings.

- 1.2 **Product Description:** Side-hinged door systems manufactured by MASONITE or meeting MASONITE specifications.
- 1.2.1 Door system components include: door panel(s), sidelite panel(s), glass inserts, transom, door frame, hinges, weather seals.

Part 2: BASIC MATERIALS

- 2.1 **Door Panel:** Belleville® Wood-Grain Textured and Belleville® Smooth fiberglass doors shall be fabricated using 6-piece construction that includes fiberglass reinforced facings featuring high-definition sticking design, laminated lock stile, finger-jointed or laminated wood hinge stile, wood top rail and rot resistant composite bottom rail. Door facings are to be bonded to stiles and rails forming a structural attachment. Insulated core to be poured-in-place polyurethane foam forming a secure attachment to all door components.

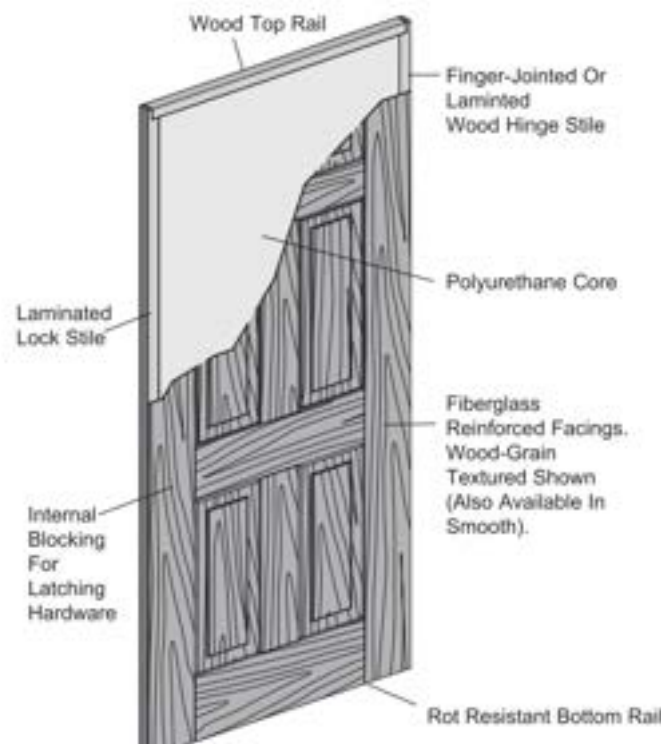
- 2.1.1 Bottom rail may be machined to accept weather seal. Mounting surface for latching hardware to be reinforced with solid internal blocking. Hinge preparations are to be placed at MASONITE specifications and are to be machined for standard weight full mortise 4" butt hinges. Latch preparations are to be placed at MASONITE specifications. Face bore(s) for cylindrical lock and deadbolt are to be 2-1/8" diameter at 2-3/4" or 2-3/8" backset and 5-1/2" on center (5-1/2" or 10-1/2" on 80" panels).

2.2 Sidelite Panel:

- 2.2.1 Belleville® Wood-Grain Textured and Belleville® Smooth fiberglass sidelites shall be fabricated using 6-piece construction that includes fiberglass reinforced facings, MDF or wood stiles and rails. Door facings are to be bonded to stiles and rails forming a structural attachment. Insulated core to be poured-in-place polyurethane or expanded polystyrene foam forming a secure attachment to all door components.

- 2.3 **Glass Insert:** Specialty™ insulated glass inserts shall be fabricated in 1/2" double pane or 1" triple pane construction. Glass frame may be "lip lite" or "flush glazed" design in rigid plastic, cellular vinyl or extruded aluminum.

- 2.4 **Transom:** Specialty insulated transoms shall be fabricated with 1/2" double pane or 1" triple pane glass mounted to the framing system as a non-operable panel.



9/06

Section 8220.1



Belleville® Wood-Grain Textured & Belleville® Smooth Fiberglass Entry Doors

Part 3: DELIVERY, STORAGE & HANDLING

- 3.1 **Delivery:** Reasonable care shall be exercised during shipping and handling in keeping with the decorative nature of product.
- 3.2 **Storage & Protection:** Store upright in a dry, well ventilated building or shelter at a constant temperature. Do not store in damp areas or freshly plastered buildings. Place units on wood blocks at least 2" high to prevent moisture at threshold and/or possible damage. Do not place in non-vented plastic or canvas shelters.

Part 4: EXECUTION

- 4.1 **Examination:** Site verification of substrate conditions, which have been previously completed, are acceptable for the product installation instructions in accordance with manufacturer's specifications. Verify that door frame openings are constructed plumb, true and level before beginning installation process. Select fasteners of adequate type, number and quality to perform the intended functions.

- 4.2 **Installation:** Remove protective packaging just prior to installation. Installer shall be experienced in performing work required and shall be specialized in the installation of work similar to that required for this project. Comply with manufacturer's product data, including product technical bulletins, product catalog installation instructions and product packaging instructions for installation.

- 4.3 **Flashing, Insulating & Trimming:** Exterior of installed unit shall be flashed, trimmed & sealed to prevent air infiltration and/or water penetration. Interior of installed unit shall be insulated & trimmed to prevent thermal and/or acoustical transmission.

- 4.4 **Finishes:** Various types of materials are used in the construction of the door system; each shall be sealed in accordance with manufacturer's specifications to protect against various environmental conditions. Make sure to seal and inspect all 5-surfaces (top, hinge side, lock side, exterior face and interior face) of the active door panel(s). Finishing and/or re-finishing must be completed within 45-days from the time the protective packaging was removed and/or the installation was performed. Conduct periodic inspections of all coated surfaces to insure that door components are not exposed. Inspections should occur at least once a year. Reseal the surface as needed.

9/06

Section 8220.2

See continuing project of product representation within specifications, design and product detail subject to change without notice.
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Architectural Door Accessories

ASSA ABLOY

ASSA ABLOY is the global leader in door opening solutions, dedicated to satisfying end-user needs for security, safety and convenience

ASSA ABLOY

ASSA ABLOY is the global leader in door opening solutions, dedicated to satisfying end-user needs for security, safety and convenience

ASSA ABLOY

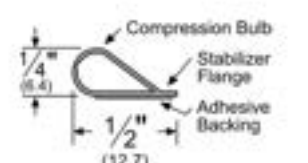
Pemko Product Reference Tech-Spec

The global leader in door opening solutions

AM88

Adhesive Gaskets

Example: AM88 | D | 20
Profile Finish Length (feet)



- TYPE:** SiliconSeal Antimicrobial Gasketing
- FINISH:** BL (Black), CL (Clear), D (Dark Brown), W (White).
- LENGTHS:** 17', 18', 20', 21', 25', 30', 51'
- WIDTH:** 1/2" (12.7 mm)
- HEIGHT:** 1/4" (6.4 mm)
- WEIGHT:** Estimated per foot: 0.08 lbs

ANSI NUMBER: ROE154

LEAD TIME: 4 working days (or less)

AVAILABLE: AM88 is shipped from Pemko's Memphis, Ventura, Vancouver and Toronto locations

WARRANTY: 5 Years from purchase date

CROSS REFERENCE: N/A

INSTRUCTIONS, CAD DRAWINGS, PROFILE DRAWINGS and CUT SHEET
Available upon request and on website

PRODUCT TESTING:

- Air Infiltration Tested** – Tested to ASTM E-283-04 (2012) for low air leakage allowance; allows no more than 0.3 cfm per square foot at 1.57 psf.
- Sound Tested** – Tested to ASTM E90 – 2009 in a single or in multiple sound seal configurations for sound attenuation in an opening
- Smoke Tested** – Tested to UL 1784 and meets the requirements of NFPA 105-2013 for smoke leakage in an opening; allows no more than 3.0 cfm per square foot at 0.10" water column (about 75 Pa).
- Fire Rated** – Tested to UL108 Standard Fire Tests and UL10C Positive Pressure Fire Tests of Door Assemblies
- BHMA Certified** – Tested for performance with regards to the requirements in:
 - ANSI/BHMA A156.22 – Door Gasketing and Edge Seal Systems

Product Test Ratings:



See Product Testing section for more information.

AM88, TS
Revised 06.12.17
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Page 2 of 3

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AM88, TS
Revised 06.12.17
Page 3 of 3

DAISY APARTMENTS DOOR AND WINDOW RETROFIT

10540 DAISY DR
VENTURA, CA 93004

PROJECT SPECIFICATIONS

NO.	REVISION	DATE
1	PLAN CHECK	05/26/23
2		
3		
4		
5		
6		
7		

PROJECT MANAGER

DRAWN BY	CHECKED BY
DATE	

PROJECT NUMBER
2371-02

SHEET

G-303

**SECTION 08720
WEATHERSTRIPPING &
SEALS (THRESHOLDS AND RAMP
THRESHOLDS)**

PART 1 GENERAL

1.01 SUMMARY

A. Section Includes: [Commercial Thresholds] [And] [Ramp Thresholds].

B. Related Sections:

- Division 8 Section(s): Steel Doors, Wood Doors, Sound Control Doors, Aluminum Frame Storefront Doors.
- Division 10 Section(s): Compartments and Cubicles, Partitions.
- Division 13 Section(s): Special Facilities, Integrated Construction, Special Structures, Special Purpose Rooms.

1.02 REFERENCES

A. American National Standards Institute/Builders Hardware Manufacturers Association (ANSI/BHMA):

- ANSI/BHMA A156.18: Materials and Finishes.
- ANSI/BHMA A156.21 Thresholds.

B. Underwriters Laboratories, Inc. (UL):

- UL 108 Fire Tests of Door Assemblies.
- UL 10C Fire Tests of Door Assemblies.
- UL 410 Slip Resistance for Floor Surface Materials.

C. Federal Government:

- U.S. Architectural & Transportation Barriers Compliance Board, Americans with Disabilities Act (ADA), Accessibility Guidelines for Buildings and Facilities (ADAAG), 1992.
- Federal Standard FED-STD-795-1988 (Revised 1989) Uniform Federal Accessibility Standards.
- Federal Specification P-F-430C Finish, Floor, Water Emulsion (for Use On Light Colored Floors).

D. International Code Council (ICC):

- UBC 7-2 Fire Test of Door Assemblies (Positive Pressure).
- International Building Code (IBC) Code 2000 (Positive Pressure).
- ICC/ANSI A117.1 Accessible and Usable Buildings and Facilities.

E. British Standards (BS):

- BS 476 Fire Tests on Building Materials and Structures.

F. State Standards:

- California Title 24, Part 2.

1.03 SYSTEM DESCRIPTION

A. Design Requirements: Provide threshold and seal products which have been manufactured, fabricated and installed to meet the following design criteria:

- Performance obtained from test procedures [UL 10B] [UL 10C] [ICC/ANSI A117.1].
- Compliant with UL 410.
- Compliant with ADA standards.

1.04 SUBMITTALS

A. General: Submit listed submittals in accordance with Conditions of the Contract and Division 1 Submittal procedures Section

B. Product Data: Submit manufacturer' s product data and installation instructions.

C. Shop Drawings: Provide drawings indicating required component locations, interface with adjacent materials, installation, anchorage, fastening and similar information.

d. Offset: [Specify offset].

e. Manufacturer Model Number: [Specify manufacturer model number].

16. Miter Returns for Modular Ramp Thresholds:

- Material: Cast aluminum.
- Finish (ANSI/BHMA 156.18): [Mill finish aluminum] [PemKote].
- Type: [WING 10] [WINGEXT] [WING16].
- Manufacturer Model Number: [Specify manufacturer model number].

17. Pemkote Skid Resistant Surface:

- Coating: Proprietary nickel aluminum composite alloy skid resistant surface.
- Manufacturer Model Number: " AK " .

18. Recycled Rubber Ramp Thresholds:

- Material: Recycled rubber from tires.
- Width: [Specify width].
- Offset: [Specify offset].
- Manufacturer Model Number: [Specify manufacturer model number].

19. Fire Retardant Rubber Ramp:

- Material: Extruded styrene butadiene rubber and fire retardant material.
- Width: [Specify width].
- Offset: [Specify offset].
- Manufacturer Model Number: [Specify manufacturer model number].

20. Rubber Ramp Miter Returns:

- Material: Molded styrene butadiene rubber.
- Manufacturer Model Number: [Specify manufacturer model number].

2.02 PRODUCT SUBSTITUTIONS

A. Substitutions: No substitutions permitted.

PART 3 EXECUTION

3.01 MANUFACTURER' S INSTRUCTIONS

A. Comply with the instructions and recommendations of the threshold manufacturer.

3.02 EXAMINATION

A. Site Verification of Conditions:

- Verify that site conditions are acceptable for installation of thresholds.
 - Examine doors and frames for compliance with requirements for door and frame manufacturer' s installation tolerances, labeled fire door assembly construction, wall and floor construction and other conditions affecting performance.
- Do not proceed with installation of thresholds until unacceptable conditions are corrected.

3.03 INSTALLATION

A. Mounting Location: Comply with drawings and approved shop drawings.

B. Adjust and reinforce attachment substrates as necessary for proper installation and operation.

C. Drill and countersink units that are not factory prepared for anchorage fasteners. Space fasteners and anchors according to industry standards.

D. Rubber Ramps: Install using "Liquid Nails" per manufacturer's installation instructions.

D. Samples: Submit one each of manufacturer' s standard selection samples.

E. Quality Assurance/Control Submittals: Submit the following:

- Test Reports: Upon request, submit [Fire] [Sound] [And] [Durability] test reports from recognized testing laboratory.
- Certificates: Submit manufacturer' s certificate that products meet or exceed specified requirements.

F. Closeout Submittals: Submit the following as requested:

- Warranty documents specified herein.

1.05 QUALITY ASSURANCE

A. Installer Qualifications: Utilize an installer having demonstrated experience on projects of similar size and complexity.

B. Regulatory Requirements and Approvals: [Specify applicable requirements of regulatory agencies].

- [Code agency name].
 - [Report or approval number].

C. Certifications: [Specify requirement for certifications].

D. Field Samples: [Specify requirement for field samples].

E. Mock-Ups: [Specify requirements for mock-up].

- Subject to acceptance by owner, mock-up may be retained as part of finish work.
- If mock-up is not retained, remove and properly dispose of mock-up.

F. Preinstallation Meetings: [Specify requirements for meeting].

1.06 DELIVERY, STORAGE & HANDLING

A. General: Comply with Division 1 Product Requirement Section.

B. Delivery: Deliver materials in manufacturer' s original, unopened, undamaged containers with identification labels intact.

C. Storage and Protection: Store materials protected from exposure to harmful environmental contions and at temperature and humidity conditions recommended by the manufacturer.

1.07 WARRANTY

A. Project Warranty: Refer to Conditions of the Contract for project warranty provisions.

B. Manufacturer' s Warranty: Submit, for Owner' s acceptance, manufacturer's standard warranty document executed by authorized company official. Manufacturer's warranty is in addition to, and not a limitation of, other rights Owner may have under contract documents.

- Warranty Period (Standard Products): 3 years against defects in materials or workmanship, beginning with Date of Substantial Completion.
- Warranty Period (PemKote Finish): 10 years against defects in materials or workmanship, beginning with Date of Substantial Completion.
- Warranty Period (Recycled Rubber Ramps): 5 years against defects in materials or workmanship, beginning with Date of Substantial Completion.

1.08 MAINTENANCE

A. Extra Materials: Provide additional material for use by owner in building maintenance and repair. [Specify number of units or percentage].

PART 2 PRODUCTS

2.01 THRESHOLDS

A. Manufacturer: Pemko Manufacturing Company.

- Contact: PO Box 3780, 4226 Transport Street, Ventura, CA 93003; Telephone: (800) 283-9988; (805)642-2600; Fax: (805) 642-4109; E-mail: pemkosales@pemko.com; website www.pemko.com.

END OF SECTION

3.04 ADJUSTING

A. Perform adjustments required to ensure that thresholds function in compliance with manufacturer' s performance criteria prior to acceptance by Owner.

3.05 CLEANING

A. Remove any protective films and clean components as necessary following manufacturer's recommended procedures.

3.06 PROTECTION

A. Protect installed work from damage due to subsequent construction activity on the site.

B. Proprietary Products/Systems: Thresholds, including the following:

- Saddle Thresholds:
 - Material: Extruded tempered aluminum 6063-T6.
 - Finish (ANSI/BHMA 156.18): [Mill finish aluminum] [Mill finish bronze (brass)] [Bright dip gold anodized aluminum] [Dark bronze anodized aluminum] [Gold anodized aluminum] [Mill finished stainless steel].
 - Manufacturer Model Number: [Specify manufacturer model number].
- Half Saddles/Offset Saddles:
 - Material: Extruded tempered aluminum 6063-T6.
 - Finish (ANSI/BHMA 156.18): [Mill finish aluminum] [Mill finish bronze (brass)] [Bright dip gold anodized aluminum] [Dark bronze anodized aluminum] [Gold anodized aluminum] [Mill finished stainless steel].
 - Manufacturer Model Number: [Specify manufacturer model number].
- Thermal Barrier Saddles:
 - Material: Extruded tempered aluminum 6063-T6.
 - Finish (ANSI/BHMA 156.18): [Mill finish aluminum] [Mill finish bronze (brass)] [Dark bronze anodized aluminum] [Gold anodized aluminum].
 - Thermal Break: Black rigid vinyl key.
 - Manufacturer Model Number: [Specify manufacturer model number].
- Threshold Stop Strips:
 - Material: Extruded tempered aluminum 6063-T6.
 - Finish (ANSI/BHMA 156.18): [Mill finish aluminum] [Mill finish bronze (brass)] [Dark bronze anodized aluminum] [Gold anodized aluminum].
 - Seal: [Pemko SiliconSeal] [Pemko PemkoPrene] [Pemko ThermoSeal] [Vinyl].
 - Manufacturer Model Number: [Specify manufacturer model number].
- Floor Closer Thresholds and Cover Plate Assemblies:
 - Material: Extruded tempered aluminum 6063-T6.
 - Finish (ANSI/BHMA 156.18): [Mill finish aluminum] [Mill finish bronze (brass)] [Dark bronze anodized aluminum] [Gold anodized aluminum].
 - Width: [Specify width].
 - Manufacturer Model Number: [Specify manufacturer model number].
- Floor Plate Supports and Accessories:
 - Material: Extruded tempered aluminum 6063-T6.
 - Finish (ANSI/BHMA 156.18): [Mill finish aluminum] [Mill finish bronze (brass)] [Dark bronze anodized aluminum] [Gold anodized aluminum].
 - Expansion Joint: Cork.
 - Width: [Specify width].
 - Manufacturer Model Number: [Specify manufacturer model number].
- Floor Plates and Safety Treads:
 - Material: Extruded tempered aluminum 6063-T6.
 - Finish (ANSI/BHMA 156.18): [Mill finish aluminum] [Mill finish bronze (brass)] [Dark bronze anodized aluminum] [Gold anodized aluminum].
 - Width: [Specify width].
 - Manufacturer Model Number: [Specify manufacturer model number].
- Latching Panic Exit Saddles:
 - Material: Extruded tempered aluminum 6063-T6.
 - Finish (ANSI/BHMA 156.18): [Mill finish aluminum] [Mill finish bronze (brass)] [Dark bronze anodized aluminum] [Gold anodized aluminum].

c. Width: [Specify width].

d. Seal: [Pemko ThermoSeal] [Sponge silicone] [Sponge neoprene] [Vinyl] [Pile].

e. Manufacturer Model Number: [Specify manufacturer model number].

9. Latching Panic Exit Saddles - Thermal Barrier:

- Material: Extruded tempered aluminum 6063-T6.
- Finish (ANSI/BHMA 156.18): [Mill finish aluminum] [Mill finish bronze (brass)] [Dark bronze anodized aluminum] [Gold anodized aluminum].
- Width: [Specify width].
- Seal: [Pemko ThermoSeal] [Sponge silicone] [Sponge neoprene] [Vinyl] [Pile].
- Thermal Break: Black rigid vinyl key.
- Manufacturer Model Number: [Specify manufacturer model number].

10. Carpet/Special Purpose Thresholds:

- Material: Extruded tempered aluminum 6063-T6.
- Finish (ANSI/BHMA 156.18): [Mill finish aluminum] [Mill finish bronze (brass)] [Bright dip gold anodized aluminum] [Dark bronze anodized aluminum] [Gold anodized aluminum].
- Width: [Specify width].
- Manufacturer Model Number: [Specify manufacturer model number].

11. Aluminum Plates:

- Material: Extruded tempered aluminum 6063-T6.
- Finish (ANSI/BHMA 156.18): [Mill finish aluminum] [Mill finish bronze (brass)] [Bright dip gold anodized aluminum] [Dark bronze anodized aluminum] [Gold anodized aluminum].
- Width: [Specify width].
- Manufacturer Model Number: [Specify manufacturer model number].

12. Modular Ramp Threshold Assemblies - Flush Applications:

- Material: Extruded tempered aluminum 6063-T6.
- Finish (ANSI/BHMA 156.18): [Mill finish aluminum] [PemKote].
- Width: [Specify width].
- Offset: [Specify offset].
- Manufacturer Model Number: [Specify manufacturer model number].

13. Modular Ramp Threshold Assemblies - Offset Applications (7 Inch Top Plate):

- Material: Extruded tempered aluminum 6063-T6.
- Finish (ANSI/BHMA 156.18): [Mill finish aluminum] [PemKote].
- Width: [Specify width].
- Offset: [Specify offset].
- Manufacturer Model Number: [Specify manufacturer model number].

14. Modular Ramp Threshold Assemblies - Offset Application (3 1/2 Inch Top Plate):

- Material: Extruded tempered aluminum 6063-T6.
- Finish (ANSI/BHMA 156.18): [Mill finish aluminum] [PemKote].
- Width: [Specify width].
- Offset: [Specify offset].
- Manufacturer Model Number: [Specify manufacturer model number].

15. Modular Ramp Threshold Assemblies - Variable:

- Material: Extruded tempered aluminum 6063-T6.
- Finish (ANSI/BHMA 156.18): [Mill finish aluminum] [PemKote].
- Width: [Specify width].



CONSULTANT

AGENCY

**DAISY APARTMENTS DOOR AND
WINDOW RETROFIT**
10540 DAISY DR
VENTURA, CA 93004

PROJECT SPECIFICATIONS

NO.	REVISION	DATE
△		
△		
△		
△		
△		
△		

PROJECT MANAGER

DRAWN BY CHECKED BY

DATE

PROJECT NUMBER

2371-02

SHEET

G-304



PREScriptive RESIDENTIAL ALTERATIONS THAT DO NOT REQUIRE HERS FIELD VERIFICATION

CEC-CF1R-ALT-05-E

CERTIFICATE OF COMPLIANCE

This compliance document is only applicable to simple alterations that do not require HERS verification for compliance. When HERS verification is required, a CF1R-ALT-01 shall first be registered with a HERS Provider Data Registry.

Alterations to Space Conditioning Systems that are exempt from HERS verification requirements may use the CF1R-ALT-05 and CF2R-ALT-05 Compliance Documents. Possible exemptions from duct leakage testing include: less than 25 feet (ft) of ducts were added or replaced; or the existing duct system was insulated with asbestos; or the existing duct system was previously tested and passed by a HERS Rater. If space conditioning systems are altered and are not exempt from HERS verification, then a CF1R-ALT-02 must be completed and registered with a HERS Provider Data Registry.

Alterations that utilize closed cell Spray Polyurethane Foam (ccSPF) with a density of 1.5 to less than 2.5 pounds per cubic foot having an R-value greater than 5.8 per inch, or open cell Spray Polyurethane Foam (ocSPF) with a density of 0.4 to less than 1.5 pounds per cubic foot having an R-value of 3.6 per inch, shall complete and register a CF1R-ALT-01 with a HERS Provider Data Registry.

If more than one person has responsibility for installation of the items on this certificate, each person shall prepare and sign a certificate applicable to the portion of construction for which they are responsible. Alternatively, the person with chief responsibility for construction shall prepare and sign this certificate for the entire construction. All applicable Mandatory Measures shall be met. Temporary labels shall not be removed before verification by the building inspector.

Project Details

Field Name	Data Entry	Field Name	Data Entry
Project Name	Daisy Apartments	Enforcement Agency	City of San Buenaventura
Dwelling Address	10540 Daisy Dr	Permit Number	RESP-03-23-1494
City and Zip Code	Ventura Ca 93004	Date Permit Issued	NA

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PREScriptive RESIDENTIAL ALTERATIONS THAT DO NOT REQUIRE HERS FIELD VERIFICATION

CEC-CF1R-ALT-05-E

C. Roof Replacement (Section 150.2(b)1H)

NOTES:

- Roof area covered by building integrated photovoltaic (PV) panels and solar thermal panels are exempt from the above Cool Roof requirements.
- Liquid field applied coatings must comply with installation criteria from Section 110.8(i)4.

Field	Field Name	Data Entry 1	Data Entry 2	Data Entry 3
01	Method of Compliance	na		
02	Roof Pitch	na		
03	Exception	na		
04	CRRC Product ID Number	na		
05	Product Type	na		
06	R-value Deck Insulation	na		
07	Proposed Initial Solar Reflectance	na		
08	Proposed Aged Solar Reflectance	na		
09	Proposed Thermal Emittance	na		
10	Proposed SRI (Optional)	na		
11	Minimum Required Aged Solar Reflectance	na		
12	Minimum Required Thermal Emittance	na		
13	Minimum Required SRI (Optional)	na		

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PREScriptive RESIDENTIAL ALTERATIONS THAT DO NOT REQUIRE HERS FIELD VERIFICATION

CEC-CF1R-ALT-05-E

Table E-2

Field	Field Name	Data Entry
15	Total Proposed Fenestration Area	
16	Maximum Allowed Fenestration Area	
17	Compliance Statement: Existing + Proposed Fenestration Area ≤ Maximum Allowed Fenestration Area	<input checked="" type="radio"/> Yes <input type="radio"/> No
18	Total Proposed West-Facing Fenestration Area	
19	Maximum Allowed West-Facing Fenestration Area	
20	Compliance Statement: Existing + Proposed West-Facing Fenestration Area ≤ Maximum Allowed West-Facing Fenestration Area	<input checked="" type="radio"/> Yes <input type="radio"/> No
21	Proposed Fenestration U-factor (Windows)	
22	Required Fenestration U-factor (Windows)	
23	Compliance Statement: Proposed Fenestration U-factor ≤ Required Fenestration U-factor	<input checked="" type="radio"/> Yes <input type="radio"/> No
24	Proposed Fenestration SHGC (Windows)	
25	Required Fenestration SHGC (Windows)	
26	Compliance Statement: Proposed Fenestration SHGC ≤ Required Fenestration SHGC	<input checked="" type="radio"/> Yes <input type="radio"/> No
27	Proposed Fenestration U-factor (Skylights)	
28	Required Fenestration U-factor (Skylights)	
29	Compliance Statement: Proposed Fenestration U-factor ≤ Required Fenestration U-factor	<input checked="" type="radio"/> Yes <input type="radio"/> No
30	Proposed Fenestration SHGC (Skylights)	
31	Required Fenestration SHGC (Skylights)	
32	Compliance Statement: Proposed Fenestration SHGC ≤ Required Fenestration SHGC	<input checked="" type="radio"/> Yes <input type="radio"/> No

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PREScriptive RESIDENTIAL ALTERATIONS THAT DO NOT REQUIRE HERS FIELD VERIFICATION

CEC-CF1R-ALT-05-E

A. GENERAL INFORMATION

Field	Field Name	Data Entry
01	Project Name	Replacement of Doors and Windows (Daisy Apartments)
02	Date Prepared	5/17/23
03	Project Location	10540 Daisy Dr
04	Building Front Orientation (deg or cardinal)	North , East , West, South
05	CA City	Ventura
06	Number of Altered Dwelling Units	20
07	Zip Code	93004
08	Fuel Type	Mixed
09	Climate Zone	6
10	Total Conditioned Floor Area (ft²)	23,144 SF
11	Building Type	Residential wood frame VB
12	Slab Area (ft²)	12,248 SF
13	Project Scope	Replace Doors and Windows for Energy Efficiency

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PREScriptive RESIDENTIAL ALTERATIONS THAT DO NOT REQUIRE HERS FIELD VERIFICATION

CEC-CF1R-ALT-05-E

D. Fenestration/Glazing Allowed Areas and Efficiencies (Section 150.2(b)1)

Field	Field Name	Data Entry 1	Data Entry 2	Data Entry 3
01	Alteration Type	Replacement		
02	Maximum Allowed Fenestration Area For All Orientations (ft²)	existing		
03	Maximum Allowed West-Facing Fenestration Area Only (ft²)	existing		
04a	Existing Fenestration Area for All Orientations (ft²)	existing		
04b	Existing West-Facing Fenestration Area (ft²)	existing		
05a	Maximum Allowed U-factor (Windows)	.30		
05b	Maximum Allowed U-factor (Skylights)	na		
06a	Maximum Allowed SHGC (Windows)	.23		
06b	Maximum Allowed SHGC (Skylights)	na		
07	Comments	Prescriptive replacement for doors and winfows		

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PREScriptive RESIDENTIAL ALTERATIONS THAT DO NOT REQUIRE HERS FIELD VERIFICATION

CEC-CF1R-ALT-05-E

F. Fenestration/Glazing Proposed Areas and Efficiencies - Replace (Section 150.2(b)1B)

Note: Doors with greater than or equal to 25 percent glazed area are considered glazed doors and are treated as fenestration products.

Table F-1

Field	Field Name	Data Entry 1	Data Entry 2	Data Entry 3
01	Tag/ID	na		
02	Fenestration Type	na		
03	Frame Type	na		
04	Dynamic Glazing	na		
05	Orientation N, S, W, E	yes		
06	Area Removed (ft²)	0 SF		
07	Area Added (ft²)	0 SF		
08	Net Added Area (ft²)	0 SF		
09	Proposed U-factor	.47		
10	Proposed U-factor Source	Manuf.		
11	Proposed SHGC	.31		
12	Proposed SHGC Source	Manuf.		
13	Exterior Shading Device	na		
14	Combined SHGC from CF1R-ENV-03	na		

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PREScriptive RESIDENTIAL ALTERATIONS THAT DO NOT REQUIRE HERS FIELD VERIFICATION

CEC-CF1R-ALT-05-E

B. Building Insulation Details (Section 150.2(b)1)

Field	Field Name	Data Entry 1	Data Entry 2	Data Entry 3
01	Tag/ID	na		
02	Assembly Type	na		
03	Frame Type	na		
04	Frame Depth (inches)	na		
05	Frame Spacing (inches)	na		
06a	Proposed Cavity R-value	na		
06b	Proposed Continuous Insulation R-value	na		
07	Proposed U-Factor	na		
08	Proposed Joint Appendix JA4 Reference Table	na		
09	Proposed Joint Appendix JA4 Reference Cell	na		
10	Required U-Factor from Table 150.1-A	na		
11	Comments	na		

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PREScriptive RESIDENTIAL ALTERATIONS THAT DO NOT REQUIRE HERS FIELD VERIFICATION

CEC-CF1R-ALT-05-E

E. Fenestration Proposed Areas and Efficiencies - Add (Section 150.2(b)1A)

Note: Doors with greater than or equal to 25 percent glazed area are considered glazed doors and are treated as fenestration products.

Table E-1

Field	Field Name	Data Entry 1	Data Entry 2	Data Entry 3
01	Tag/ID	na		
02	Fenestration Type	na		
03	Frame Type	na		
04	Dynamic Glazing	na		
05	Orientation N, S, W, E	na		
06	Number of Panes	na		
07	Proposed Fenestration Area (ft²) (N, S, E)	na		
08	Proposed West-Facing Fenestration Area (ft²)	na		
09	Proposed U-factor	na		
10	Proposed U-factor Source	na		
11	Proposed SHGC	na		
12	Proposed SHGC Source	na		
13	Exterior Shading Device	na		
14	Combined SHGC from CF1R-ENV-03	na		

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PREScriptive RESIDENTIAL ALTERATIONS THAT DO NOT REQUIRE HERS FIELD VERIFICATION

CEC-CF1R-ALT-05-E

Table F-2

Field	Field Name	Data Entry
15	Net Added West-facing Fenestration Area	
16	Is Net Added Fenestration Area ≤ for west-facing fenestration?	<input checked="" type="radio"/> Yes <input type="radio"/> No
17	Net Added Fenestration Area (all orientations)	
18	Is Net Added Fenestration Area ≤ 0 for all orientations?	<input checked="" type="radio"/> Yes <input type="radio"/> No
19	Proposed Fenestration U-factor (Windows)	
20	Required Fenestration U-factor (Windows)	
21	Is the proposed Fenestration U-factor ≤ the Required Fenestration U-factor?	<input checked="" type="radio"/> Yes <input type="radio"/> No
22	Proposed Fenestration SHGC (Windows)	
23	Required Fenestration SHGC (Windows)	
24	Is the Proposed Fenestration SHGC ≤ the Required Fenestration SHGC?	<input checked="" type="radio"/> Yes <input type="radio"/> No
25	Proposed Fenestration U-factor (Skylights)	
26	Required Fenestration U-factor (Skylights)	
27	Is the proposed Fenestration U-factor ≤ the Required Fenestration U-factor?	<input checked="" type="radio"/> Yes <input type="radio"/> No
28	Proposed Fenestration SHGC (Skylights)	
29	Required Fenestration SHGC (Skylights)	
30	Is the Proposed Fenestration SHGC ≤ the Required Fenestration SHGC?	<input checked="" type="radio"/> Yes <input type="radio"/> No

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CONSULTANT

AGENCY

DAISY APARTMENTS DOOR AND WINDOW RETROFIT

10540 DAISY DR
VENTURA, CA 93004

CA ENERGY FORMS

NO.	REVISION	DATE
1	PLAN CHECK	05/26/23
2		
3		
4		
5		

PROJECT MANAGER

DRAWN BY

CHECKED BY

DATE

PROJECT NUMBER

2371-02

SHEET

G-401



PRESCRIPTIVE RESIDENTIAL ALTERATIONS THAT DO NOT REQUIRE HERS FIELD VERIFICATION

CEC-CF1R-ALT-05-E

G. Space Conditioning (SC) Systems – Heating/Cooling (Prescriptive Section 150.2(b))

Alterations to Space Conditioning Systems shall be exempt from HERS verification requirements as prerequisite for use of the CF1R-ALT-05 and CF2R-ALT-05 compliance documents. If new space conditioning systems are installed or existing systems are altered and are not exempt from HERS verification, then a CF1R-ALT-02 shall be completed and registered with a HERS Provider Data Registry. In each row below for each dwelling unit in the building, check the box that indicates the exemption from HERS verification compliance:

- ☐ a: space conditioning system was not altered;
☐ b: less than 25 ft of ducts were added or replaced;
☐ c: (exempt from duct leakage testing) if: the existing duct system was insulated with asbestos;
☐ d: (exempt from duct leakage testing) if: the existing duct system was previously tested and passed by a HERS Rater.

01	02	03
SC System Identification or Name	SC System Location or Area Served	Exemption from HERS Verification
na	na	<input type="radio"/> a <input type="radio"/> b <input type="radio"/> c <input type="radio"/> d
na	na	<input type="radio"/> a <input type="radio"/> b <input type="radio"/> c <input type="radio"/> d
na	na	<input type="radio"/> a <input type="radio"/> b <input type="radio"/> c <input type="radio"/> d
na	na	<input type="radio"/> a <input type="radio"/> b <input type="radio"/> c <input type="radio"/> d
na	na	<input type="radio"/> a <input type="radio"/> b <input type="radio"/> c <input type="radio"/> d
na	na	<input type="radio"/> a <input type="radio"/> b <input type="radio"/> c <input type="radio"/> d
na	na	<input type="radio"/> a <input type="radio"/> b <input type="radio"/> c <input type="radio"/> d
na	na	<input type="radio"/> a <input type="radio"/> b <input type="radio"/> c <input type="radio"/> d
na	na	<input type="radio"/> a <input type="radio"/> b <input type="radio"/> c <input type="radio"/> d
na	na	<input type="radio"/> a <input type="radio"/> b <input type="radio"/> c <input type="radio"/> d
na	na	<input type="radio"/> a <input type="radio"/> b <input type="radio"/> c <input type="radio"/> d
na	na	<input type="radio"/> a <input type="radio"/> b <input type="radio"/> c <input type="radio"/> d
na	na	<input type="radio"/> a <input type="radio"/> b <input type="radio"/> c <input type="radio"/> d
na	na	<input type="radio"/> a <input type="radio"/> b <input type="radio"/> c <input type="radio"/> d
na	na	<input type="radio"/> a <input type="radio"/> b <input type="radio"/> c <input type="radio"/> d

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PRESCRIPTIVE RESIDENTIAL ALTERATIONS THAT DO NOT REQUIRE HERS FIELD VERIFICATION

CEC-CF1R-ALT-05-E

Documentation Author's Declaration Statement

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

Documentation Author Name: Andrew Garl	Documentation Author Signature:
Company: RRM Design Group	Signature Date: 5/17/23
Address: 422 E Main St	CEA/HERS Certification Identification (if applicable): N/A
City/State/Zip: Ventura Ca, 93001	Phone: 805-730-0294

Responsible Person's Declaration Statement

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

- The information provided on this Certificate of Compliance is true and correct.
- 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).
- 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.
- 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.
- I understand that a registered 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 registered 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: Andrew Garl	Responsible Designer Signature:
Company: RRM Design Group	Date Signed: 5/17/23
Address: 22 E Main St	License: C37643
City/State/Zip: 93001	Phone: 805-730-024

For assistance or questions regarding the Energy Standards, contact the Energy Hotline at: 1-800-772-3300

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PRESCRIPTIVE RESIDENTIAL ALTERATIONS THAT DO NOT REQUIRE HERS FIELD VERIFICATION

CEC-CF1R-ALT-05-E

H. Water Heating Systems (Section 150.2(b)1H)

List water heaters and boilers for both domestic hot water (DHW) heaters and hydronic space heating.

Options:

- Gas or propane water heating system; or
- A single heat pump water heater. The storage tank shall not be located outdoors and shall be placed on an incompressible, rigid insulated surface with a minimum thermal resistance of R-10. The water heater shall be installed with a communication interface that meets either the requirements of Section 110.12(a) or has a ANSI/CTA-2045-B communication port; or
- A single heat pump water heater that meets the requirements of NEEA Advanced Water Heater Specification Tier 3 or higher; or
- If no natural gas is connected to the existing water heater location, a consumer electric water heater

Table H-1

Field	Field Name	Data Entry
01	Is natural gas connected to the existing water heater?	<input type="radio"/> Yes <input type="radio"/> No

Table H-2

Field	Field Name	Data Entry 1	Data Entry 2	Data Entry 3
02	Water Heating System ID or Name	na	na	na
03	Water Heating System Type	na	na	na
04	System Option (from §150.2(b)1Hiii)	na	na	na
05	Water Heater Type	na	na	na
06	Volume	na	na	na
07	Fuel Type	na	na	na
08	# of Water Heaters in System	na	na	na

CA Building Energy Efficiency Standards - 2022 Residential Compliance

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CERTIFICATE OF COMPLIANCE – USER INSTRUCTIONS	CF1R-ALT-05-E
Prescriptive Residential Alterations That Do Not Require HERS Field Verification	(Page 1 of 13)

CF1R-ALT-05-E User Instructions

NOTE: If more space is needed, print a duplicate page and fill in.

Minimum requirements for prescriptive alteration compliance can be found in Building Energy Efficiency Standards Section 150.2(b)1.

Completing these forms will require that you have the Reference Appendices for the 2019 Building Energy Efficiency Standards (P400-2018-020). This document contains the Joint Appendices which are used to determine climate zone and to complete the section for opaque surfaces. When the term CF1R is used it means the CF1R-ALT-05. Worksheets are identified by their entire name and subsequently by only the worksheet number, such as ENV-02.

Instructions for sections with column numbers and row letters are given separately.

If any part of the alteration does not comply, prescriptive compliance fails, in which case the performance compliance approach must be used in an attempt to achieve compliance.

A. General Information

- Project Name: Identifying information, such as owner's name.
- Date Prepared: Date of document preparation.
- Project Location: Legal street address of property or other applicable identifying information.
- Building Front Orientation: Building front orientation expressed in degrees, where North = 0, East = 90, South = 180, and West = 270. Indicate cardinal if it is a subdivision project built in multiple orientations. The standards (section 100.1) include the following additional details for determining orientation:
 - Cardinal covers all orientations (for buildings that will be built in multiple orientations);
 - North is oriented to within 45 degrees of true north, including 45 degrees east of north;
 - East is oriented to within 45 degrees of true east, including 45 degrees south of east;
 - South is oriented to within 45 degrees of true south, including 45 degrees west of south;
 - West is oriented to within 45 degrees of true west, including 45 degrees north of west.
- CA City: Legal city/town of property.
- Number of Altered Dwelling Units: 1 for single-family
- Zip Code: 5-digit zip code for the project location (used to determine climate zone).
- Fuel Type: Natural Gas, Liquefied Propane Gas, or Electricity.

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C. Roof Replacement (Prescriptive Alteration, Section 150.2(b)1H)

When 50% or more of the roof is being replaced the roofing requirements are triggered. Any areas of roof covered by building integrated photovoltaic panels and solar thermal panels are exempt, but the area of roof not covered by photovoltaic panels would still need to meet any applicable cool roof requirements. Additionally, there are many alternatives/exceptions to when a cool roof is required.

When the roof is steep-sloped (pitch greater than or equal to 2:12) the roof requirements include a cool roof in climate zones 4 and 8-15. The minimum requirement is 0.20 Aged Solar Reflectance, 0.75 Thermal Emittance, or a minimum SRI of 16.

- Method of Compliance: Indicate if the method of compliance is going to be based on Aged Solar Reflectance and Thermal Emittance, the Solar Reflectance Index (SRI), or an Exception.
- Roof Pitch: Expressed as 4:12, for example, which means the roof rises 4 foot within a span of 12 feet. When roofs have multiple pitches the requirements are based on the pitch of 50 percent or more of the roof.
- Exception: If meeting one of the exceptions. Indicate which exception is, or will be, met.

EXCEPTIONS AND ALTERNATIVES FOR STEEP SLOPE ROOFS:

- Mass roof 25 pounds per square foot (lbs/ft²) or greater (uncommon situation such as sod roof);
- Roof has ceiling assemblies with a U-factor less than or equal to 0.025 or R-38 insulation;
- Roof has a radiant barrier not installed directly above spaced sheathing meeting 150.1(c)2;
- Nin Climate Zones 2, 4, 9, 10, 12 and 14, no ducts are installed in the attic; or
- R-2 continuous insulation above the roof deck.

In climate zones 4 and 6-15, when there is a low-sloped roof (pitch less than 2:12) the cool roof requirements are for a minimum Aged Solar Reflectance of 0.63, a minimum 0.75 Thermal Emittance, or a minimum SRI of 75.

EXCEPTIONS AND ALTERNATIVES FOR LOW SLOPE ROOFS:

- Mass roof 25 pounds per square foot (lbs/ft²) or greater (uncommon situation such as sod roof);
- No ducts are installed in the attic; or
- Roof deck installation trade off – by installing roof deck insulation, a lower aged solar reflectance is required: In Climate Zones 6 and 7 R-2 (0.60), R-4 (0.55), R-6 (0.50), R-8 (0.45), R-10 (no requirement); In Climate Zones 2, 4 and 8-15 R-16 (0.60), R-18 (0.55), R-20 (0.50), R-24 (no requirement).

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CERTIFICATE OF COMPLIANCE – USER INSTRUCTIONS	CF1R-ALT-05-E
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- Climate Zone: From Reference Appendices, Joint Appendix, JA2.1.1.
- Total Conditioned Floor Area: Enter the new conditioned floor area in square feet (ft²), as measured from the outside of exterior walls of the dwelling unit or building being altered.
- Building Type: Single Family (includes duplex), or Multi-Family (a building that shares common walls and common floors or ceilings).
- Slab Area: Area of the first floor slab (if any) in square feet (ft²).
- Project Scope: Insulation, Roof Replacement, Fenestration/Glazing, Heating System, Cooling System, Duct System, and/or Water Heating System alteration.

B. Building Insulation Details (Section 150.2(b)1)

- Tag/ID: A label (if any) from the plans, such as A1.4 or wall.
- Assembly Type: Roof, Ceiling, Wall, or Floor.
- Frame Type: Wood or Metal.
- Frame Depth: Nominal dimensions of framing material in inches such as 2x4, 2x6, 2x8, 2x10.
- Frame Spacing: 16 or 24 inches on center.
- Proposed Cavity R-value: Insulation installed between framing.

Proposed Continuous Insulation R-value: R-value of rigid or continuous insulation (not interrupted by framing). See Table 4.3.4. of Reference Appendices, Joint Appendix, for metal frame construction.

NOTE: Section 110.8(d) specifies that if adding insulation to an existing attic, the resulting attic insulation must total R-22. However, the amount of insulation required is limited to the amount of room available for insulation without conflicting with Building Code Section 1203.2.

- Proposed U-factor: The U-factor for the entire assembly.
- Joint Appendix JA4 Reference Table: Table number used to determine the R-value or U-factor (e.g., an attic assembly is 4.2.1).
- Joint Appendix JA4 Reference Cell: Cell number used to determine the R-value or U-factor (e.g., an R-38 ceiling with 24-inch on center framing is A21).
- Required U-factor: From the requirements in Sections 110.8 and 150.0.
- Comments: Any notes regarding location, unique conditions, or attachments.

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CERTIFICATE OF COMPLIANCE – USER INSTRUCTIONS	CF1R-ALT-05-E
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- NOTE: If one of the exceptions above has been selected then the rest of Section C. is not required.
- CRRC Product ID Number: The CRRC Product ID Number is obtained from the [Cool Roof Rating Council's Rated Product Directory](#). Products are listed by manufacturer, brand, type of installation, roofing material, and color, as well as product performance.
 - Product type: See [Cool Roof Rating Council's directory](#). Generally product types include single-ply roof, wood shingles, asphalt roof, metal roof, tile roof.
 - R-value Deck Insulation: If one of the exceptions selected includes adding roof deck insulation, indicate the R-value of the insulation.
 - Proposed Initial Solar Reflectance: Based on the product chosen from the [Cool Roof Rating Council's Rated Product Directory](#). If using default assumption indicate N/A since the Aged Solar Reflectance is available.
 - Proposed Aged Solar Reflectance: Value is from the [Cool Roof Rating Council's Rated Product Directory](#). If the aged value is not available, calculate the Aged Solar Reflectance using the Solar Reflectance Index (SRI) Calculator located on the California Energy Commission website or the aging equation $\rho_{aged} = [0.2 + \beta(\rho_{initial} - 0.2)]$, where $\rho_{initial}$ = the initial solar reflectance and soiling resistance β is listed by product type below.

VALUES OF SOILING RESISTANCE β BY PRODUCT TYPE

Product Type	CRRC Product Category	β
Field-Applied Coating	Field-Applied Coating	0.65
Other	Not A Field-Applied Coating	0.70

- Proposed Thermal Emittance: From the product specification default value. If using a calculated Solar Reflectance Index (SRI) place the Thermal Emittance used to calculate SRI.
- Proposed Solar Reflectance Index (SRI): It is optional to meet the SRI but if chosen to do so, use the Solar Reflectance Index (SRI) Calculator found on the [California Energy Commission website](#).
- Minimum Required Aged Solar Reflectance: Based on climate zone and roof slope.
- Minimum Required Thermal Emittance: Based on climate zone and roof slope.
- Minimum Required SRI: Based on climate zone and roof slope.

NOTE: If the cool roofing requirements will be met by a liquid field applied coating, Section 110.8(i)4 requires the coating be applied across the entire roof surface and meet the dry mil thickness or coverage recommended by the manufacturer.

D. Fenestration/Glazing Allowed Areas and Efficiencies

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CONSULTANT

AGENCY

DAISY APARTMENTS DOOR AND WINDOW RETROFIT

10540 DAISY DR
VENTURA, CA 93004

CA ENERGY FORMS

NO.	REVISION	DATE
1	PLAN CHECK	05/26/23
2		
3		
4		
5		
6		

PROJECT MANAGER

DRAWN BY

CHECKED BY

DATE

PROJECT NUMBER

2371-02

SHEET

G-402

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The Alteration and Fenestration Type will affect how the standards apply and whether the fenestration area is limited. Percentages are determined as Conditioned Floor Area (CFA) $\times 0.20$ = total square footage (ft²) of fenestration allowed (20 percent). Depending on the climate zone, if west-facing fenestration is limited (in climate zones 2, 4, 6-15), it is limited to a maximum of 5 percent. The overall total fenestration area is limited to 20 percent, not 25 percent. Fenestration areas are expressed in square feet, not square inches.

- Alteration Type: Indicate the type of fenestration alteration - adding fenestration/glazing, replacing fenestration/glazing, adding fenestration/glazing less than or equal to 75 ft² windows, replacing fenestration/glazing less than or equal to 75 ft² window, adding fenestration/glazing less than or equal to 16 ft² skylight and/or replacing fenestration/glazing skylights
- Maximum Allowed Fenestration Area for All Orientations (ft²): The maximum allowed fenestration area is 20 percent. Depending on the type of fenestration and the alteration type, this field may have values such as 75 square feet (ft²) or 16 ft².
- Maximum Allowed West-Facing Fenestration Area Only: The Maximum Allowed West-Facing Fenestration Area is 5 percent of the conditioned floor area (used in climate zones 2, 4, and 6-15).

NOTE: (1) If adding fenestration/glazing less than or equal to 16 ft² skylight, enter NA
 (2) West includes any vertical fenestration oriented to within 45 degrees of true west, including 45 degrees south of west. For skylights, west also includes any skylight area facing any direction with a pitch of less than 1:12

- Existing Fenestration Area for All Orientations: Enter the area, in square feet, of the existing fenestration/glazing.
 Existing West-Facing Fenestration Area: Enter the area, in square feet (ft²), of the existing west-facing fenestration/glazing. If project has no existing west-facing fenestration then enter "0".
- Maximum Allowed U-factor: Maximum U-factor from Table 150.1-A, Package A. This field will almost always be 0.30 unless the U-factor will be the area weighted average, CF1R-ENV-02-E, with other higher fenestration windows. For skylights this will be 0.55.

NOTE: (1) If meeting Exception 2 to Section 150.2(b)1A (adding less than or equal to 16 square feet (ft²) skylights), enter 0.55.
 (2) If meeting Exception 1 to Section 150.2(b)1B (replacing less than or equal to 75 square feet (ft²) windows), enter 0.40.
 (3) If meeting Exception 2 to Section 150.2(b)1B (replacing skylights), enter 0.55.

- Maximum Allowed SHGC: Maximum solar heat gain coefficient (SHGC) from Table 150.1-A. This field will almost always be either 0.23 or N/A, depending on climate zone. N/A means there is no maximum SHGC required in this climate zone. The SHGC will be the area weighted average, CF1R-ENV-02-E, with other higher fenestration windows. For skylights this will be 0.30.

NOTE: (1) If meeting Exception 2 to Section 150.2(b)1A (adding less than or equal to 16 square feet (ft²) skylights), enter 0.30.
 (2) If meeting Exception 1 to Section 150.2(b)1B (replacing less than or equal to 75 square feet (ft²) windows), enter 0.35.

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- Total Proposed Fenestration Area: Enter the sum of the existing (D04a) and proposed fenestration areas for all orientations (E07 + E08). For project scopes: Add Fenestration/Glazing less than or equal to 75 square feet (ft²) and/or Add Fenestration/Glazing less than or equal to 16 ft²; enter NA.
- Maximum Allowed Fenestration Area: Enter the maximum allowed fenestration area for all orientations, from D02.
- Is the Total Proposed Fenestration Area less than or equal to the Maximum Allowed Fenestration Area: Indicate Yes if the Total Proposed Fenestration Area is less than or equal to the Maximum Allowed Fenestration Area. If No, the project fails prescriptive compliance – specified fenestration areas must be reduced, or compliance may be attempted using the performance approach.

NOTE: If Total Proposed Fenestration Area equals NA, Design Complies - Indicate Yes.

- Total Proposed West-Facing Fenestration Area: Enter the sum of the existing (D04b) and proposed west-facing fenestration areas (E08). For project scopes: Add Fenestration/Glazing less than or equal to 75 square feet (ft²) and/or Add Fenestration/Glazing less than or equal to 16 ft²; enter NA.
- Maximum Allowed West-Facing Fenestration Area: Enter the maximum allowed west-facing fenestration area only, from D03.
- Is the Total Proposed West-Facing Fenestration Area less than or equal to the Maximum Allowed West-Facing Fenestration Area: Indicate Yes if the Total Proposed West-Facing Fenestration Area is less than or equal to the Maximum Allowed West-Facing Fenestration Area. If No, the project fails prescriptive compliance – specified west-facing fenestration areas must be reduced, or compliance may be attempted using the performance approach.

NOTE: If Total Proposed West-Facing Fenestration Area equals NA, Design Complies - Indicate Yes.

- Proposed Fenestration U-factor (Windows): If necessary, report the area-weighted average U-factor from the completed CF1R-ENV-02. Otherwise, report the single largest associated value from column E09.
- Required Fenestration U-factor (Windows): Enter the Maximum Allowed U-factor (D05a).
- Is the Proposed Fenestration U-factor less than or equal to the Required Fenestration U-factor: Indicate Yes if the Proposed Fenestration U-factor is less than or equal to the Required Fenestration U-factor. If No, the project fails prescriptive compliance – specified fenestration U-factor must be reduced, or compliance may be attempted using the performance approach.
- Proposed Fenestration SHGC (Windows): If necessary, report the area-weighted average SHGC from the completed CF1R-ENV-02. Otherwise, report the single largest associated value from column E11 or E14.
- Required Fenestration SHGC (Windows): Enter the Maximum Allowed solar heat gain coefficient (SHGC) (D06a).
- Is the Proposed Fenestration SHGC less than or equal to the Required Fenestration SHGC: Indicate Yes if the Proposed Fenestration SHGC is less than or equal to the Required Fenestration SHGC. If No, the project fails prescriptive compliance – specified fenestration SHGC must be reduced, or compliance may be attempted using the performance approach.

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(2) If using an overhang for south-facing glazing, the glazing must be fully shaded at solar noon on August 21 and substantially exposed to direct sunlight at solar noon on December 21 (see Residential Manual, Section 3.5.5).

- Combined SHGC from CF1R-ENV-03: If exterior shading devices are combined with the solar heat gain coefficient (SHGC) value of the fenestration to meet the prescriptive SHGC requirements (as indicated by a value in column F. 13), indicate the SHGC calculated on form CF-1R-ENV-03 and attach the form for each window with an exterior shading device.

To determine compliance with allowable fenestration areas, complete rows 15-30.

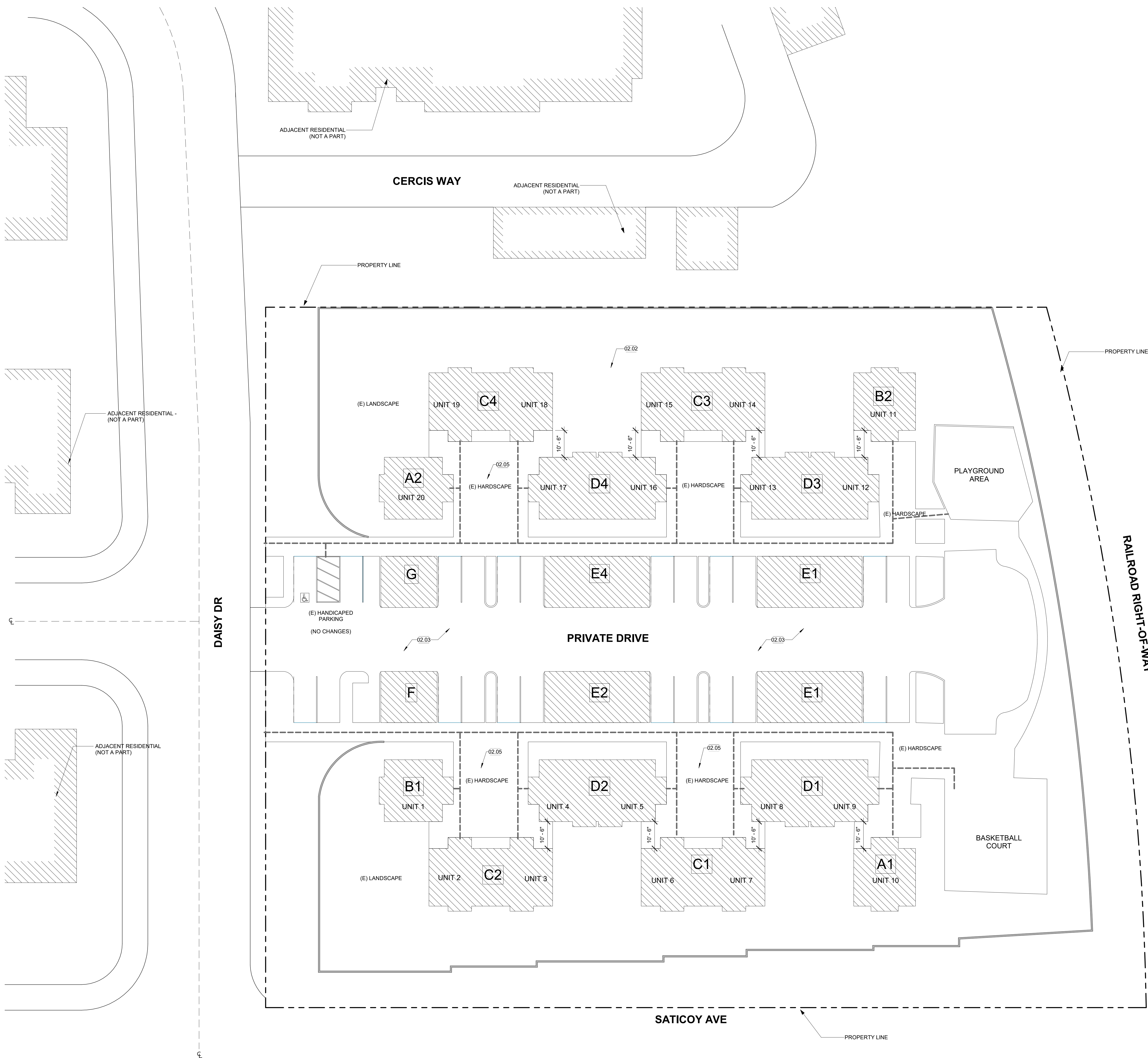
- Net Added West-Facing Fenestration Area: If limited, enter the total amount of west-facing fenestration ONLY that will be added to the dwelling unit when alterations are complete.
- Is Net Added Fenestration Area less than or equal to 0 for west-facing fenestration? Indicate Yes or No. If No, the project fails prescriptive compliance – specified west-facing fenestration areas must be reduced, or compliance may be attempted using the performance approach.
- Net Added Fenestration Area (all orientations): This field is to show the net area of added fenestration for all orientations.
- Is Net Added Fenestration Area less than or equal to 0 for all orientations? Indicate Yes or No. If No, the project fails prescriptive compliance – specified fenestration areas must be reduced, or compliance may be attempted using the performance approach.
- Proposed Fenestration U-factor (Windows): If necessary, enter the area-weighted average U-factor from the completed CF1R-ENV-02. Otherwise, report the single largest associated value from F09.
- Required Fenestration U-factor (Windows): From Section D., report the value of column O5a.
- Is the Proposed Fenestration U-factor less than or equal to the Required Fenestration U-factor? Indicate Yes or No. If No, the project fails prescriptive compliance – specified fenestration U-factor must be reduced, or compliance may be attempted using the performance approach.
- Proposed Fenestration SHGC (Windows): If necessary, enter the area-weighted average solar heat gain coefficient (SHGC) from the complete CF1R-ENV-02. Otherwise, report the single largest associated value from columns F11 or F14.
- Required Fenestration SHGC (Windows): From Section D., report the value of column O6a.
- Is the Proposed Fenestration SHGC less than or equal to the Required Fenestration SHGC? Indicate Yes or No. If No, the project fails prescriptive compliance – specified fenestration SHGC must be reduced, or compliance may be attempted using the performance approach.
- Proposed Fenestration U-factor (Skylights): If necessary, enter the area-weighted average U-factor from the completed CF1R-ENV-02. Otherwise, report the single largest associated value from F09.
- Required Fenestration U-factor (Skylights): From Section D., report the value of column O5b.
- Is the Proposed Fenestration U-factor less than or equal to the Required Fenestration U-factor? Indicate Yes or No. If No, the project fails prescriptive compliance – specified fenestration U-factor must be reduced, or compliance may be attempted using the performance approach.

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(3) If meeting Exception 2 to Section 150.2(b)18 (replacing skylights), enter 0.30.	
7. Comments: Note any special location or comment here.	
E. Fenestration/Glazing Proposed Areas and Efficiencies - Add (Section 150.2)(b)1A)	
1. Tag/ID: A label (if any) from the plans, such as W1.	
2. Fenestration Type: Indicate the type of fenestration construction e.g., Fixed Window, Operable Window, or Skylight.	
NOTE: Doors with glazing are counted in one of two ways. A door with 25 percent or more glazing is considered a glazed door and is counted as the entire door area. A door with less than 25 percent glazing can be counted as the entire door area or can be calculated as the actual glass area with a 2-inch (0.17 ft ²) frame all around.	
3. Frame type: Metal, metal thermal break, or nonmetal.	
4. Dynamic Glazing: Indicate if the fenestration has integrated shading device, chromogenic glazing or none for no dynamic glazing. Chromogenic glazing shall be considered separately from other fenestration types.	
5. Orientation (North, East, South, West): The definitions in the Energy Standards include these specific details -	
<ul style="list-style-type: none"> • North is oriented to within 45 degrees of true north, including 45 degrees east of north; • East is oriented to within 45 degrees of true east, including 45 degrees south of east; • South is oriented to within 45 degrees of true south, including 45 degrees west of south; • West is oriented to within 45 degrees of true west, including 45 degrees north of west. 	
NOTE: Skylights in a roof pitch greater than 1:12 can be included as facing the same orientation as that portion of the roof angle. If the skylight is in a roof with a pitch less than 1:12, the skylight is assumed to face west.	
6. Number of Panes: Indicate the number of panes for each Tag/ID; is it single, double, or triple pane window?	
7. Proposed Fenestration Area (ft ²): Indicate the area in square feet (ft ²) of each exterior fenestration type, excluding west-facing fenestration.	
8. Proposed West Facing Fenestration Area (ft ²): In climate zones 2, 4, 6-15, indicate the area in square feet (ft ²) of each exterior west-facing fenestration type separately.	
9. Proposed U-factor: Enter (a) the National Fenestration Rating Council (NFRC) U-factor based on the proposed brand and type of fenestration using NFRC certified values , (b) the default value from Table 110.6-A or Equation NA6-1, or (c) the weighted average U-factor calculated on form CF1R-ENV-02-E.	
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27. Proposed Fenestration U-factor (Skylights): If necessary, report the area-weighted average U-factor from the completed CF1R-ENV-02. Otherwise, report the single largest associated value, report column E09.	
28. Required Fenestration U-factor (Skylights): Enter the Maximum Allowed U-factor (D05b).	
29. Is the Proposed Fenestration U-factor less than or equal to the Required Fenestration U-factor: Indicate Yes if the Proposed Fenestration U-factor is less than or equal to the Required Fenestration U-factor. If No, the project fails prescriptive compliance - specified fenestration U-factor must be reduced, or compliance may be attempted using the performance approach.	
30. Proposed Fenestration SHGC (Skylights): If necessary, report the area-weighted average solar heat gain coefficient (SHGC) from the completed CF1R-ENV-02. Otherwise, report the single largest associated value from column E11 or E14.	
31. Required Fenestration SHGC (Skylights): Enter the Maximum Allowed solar heat gain coefficient (SHGC) (D06b).	
32. Is the Proposed Fenestration SHGC less than or equal to the Required Fenestration SHGC: Indicate Yes if the Proposed Fenestration solar heat gain coefficient (SHGC) is less than or equal to the Required Fenestration SHGC. If No, the project fails prescriptive compliance - specified fenestration SHGC must be reduced, or compliance may be attempted using the performance approach.	
F. Fenestration/Glazing Proposed Areas and Efficiencies - Replace (Section 150.2)(b)1B)	
1. Tag/ID: A label (if any) from the plans, such as W1.	
2. Fenestration Type: Indicate the type of fenestration construction (e.g., Fixed Window, Operable Window, or Skylight).	
NOTE: Doors with glazing are counted in one of two ways. A door with 25 percent or more glazing is considered a glazed door and is counted as the entire door area. A door with less than 25 percent glazing can be counted as the entire door area or can be calculated as the actual glass area with a 2-inch (0.17 ft ²) frame all around.	
3. Frame Type: Metal, metal thermal break, or nonmetal.	
4. Dynamic Glazing: Indicate if the fenestration has integrated shading device, chromogenic glazing or none for no dynamic glazing.	
NOTE: Chromogenic glazing shall be considered separately from other fenestration types.	
5. Orientation (North, East, South, West): The definitions in the Energy Standards include these specific details -	
<ul style="list-style-type: none"> • North is oriented to within 45 degrees of true north, including 45 degrees east of north; • East is oriented to within 45 degrees of true east, including 45 degrees south of east; • South is oriented to within 45 degrees of true south, including 45 degrees west of south; • West is oriented to within 45 degrees of true west, including 45 degrees north of west. 	
NOTE: Skylights in a roof pitch greater than 1:12 can be included as facing the same orientation as that portion of the roof angle. If the skylight is in a roof with a pitch less than 1:12, the skylight is assumed to face west.	
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28. Proposed Fenestration SHGC (Skylights): If necessary, enter the area-weighted average solar heat gain coefficient (SHGC) from the completed CF1R-ENV-02. Otherwise, report the single largest associated value from columns F11 or F14.	
29. Required Fenestration SHGC (Skylights): From Section D, report the value of column 06b.	
30. Is the Proposed Fenestration SHGC less than or equal to the Required Fenestration SHGC? Indicate Yes or No. If No, the project fails prescriptive compliance - specified fenestration SHGC must be reduced, or compliance may be attempted using the performance approach.	
G. Space Conditioning (SC) Systems – Heating/Cooling	
Requirements of the Standards apply to a heating and cooling system alteration based on the type of alteration and the system type (Section 150.2(b)1). A completely new system will meet all mandatory and prescriptive requirements, which vary by climate zone (based on Section 150.2(b)1C).	
When parts of a system are replaced, it may trigger some of the same requirements that apply to new systems and duct alterations. A Certificate of Compliance for Alterations to Space Conditioning Systems (CF1R-ALT-02) is required for each dwelling unit with a space conditioning system alteration.	
1. Space Conditioning (SC) System Identification or Name: Name of the space conditioning (SC) system or any other identifying name.	
2. Space Conditioning (SC) System Location or Area Served: Zone, or area, served by the space conditioning (SC) system.	
3. Exemption from HERS Verification: Section 150.2(b)1E	
<ul style="list-style-type: none"> a. Space Conditioning (SC) System was not altered b. Duct systems with less than 25 linear feet in unconditioned spaces as determined by visual inspection. c. Existing duct systems constructed, insulated or sealed with asbestos d. Duct systems that have been documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Appendices, Residential Appendix, RA3.1. 	
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<p>For the exceptions, up to 3 square feet (ft²) of tubular skylights and up to 3 ft² of glazing in a door enter N/A, and for up to 16 ft² of skylight, enter 0.55. If any products (other than the exceptions) have a higher U-factor than 0.30, first complete a form CF1R-ENV-02 to calculate the area-weighted average U-factor and attach it to this CF1R.</p> <p>NOTE: Dynamic glazing is a glazing system that changes its performance U-factor and SHGC based on the physical environment. Dynamic glazing includes chromogenic glazing or integrated shading systems (this does not include internally or externally mounted shading devices). If using dynamic glazing, use the lowest tested U-factor and solar heat gain coefficient (SHGC) in Columns 9 and 11.</p> <p>10. Proposed U-factor Source: National Fenestration Rating Council (NFRC), Table 110.6-A, Equations NA6-1, or Area-Weighted Average Worksheet (ENV-02). The source of the U-factor data for the fenestration product.</p> <p>11. Proposed SHGC: In climate zones 2, 4, 6-15 enter the solar heat gain coefficient (SHGC) from (a) National Fenestration Rating Council (NFRC), or (b) default value from Table 110.6-B or Equation NA6-2, or (c) the weighted average SHGC calculated on form CF1R-ENV-02.</p> <p>For the exceptions – up to 3 square feet (ft²) of tubular skylights and up to 3 ft² of glazing in a door, enter N/A; up to 16 ft² of skylight, enter 0.30. If any products (other than the exceptions) have a higher SHGC than required by Table 150.1-A, first complete a form CF1R-ENV-02 to calculate the area-weighted average SHGC and attach it to this CF1R.</p> <p>12. Proposed SHGC Source: National Fenestration Rating Council (NFRC), Table 110.6-A, Equations NA6-1, or Area-Weighted Average Worksheet (ENV-02). The source of the U-factor data for the fenestration product.</p> <p>13. Exterior Shading Device: If exterior shading devices are used to meet the SHGC requirement, indicate the type of device (from Table S-1 of CF1R-ENV-03 Solar Heat Gain Coefficient Worksheet) and attach an ENV-03.</p> <p>NOTES:</p> <p>(1) An exterior shading device is not used for products with an NFRC rated U-factor and SHGC; based on a factory integrated shading device.</p> <p>(2) If using an overhang for south-facing glazing, the glazing must be fully shaded at solar noon on August 21 and substantially exposed to direct sunlight at solar noon on December 21 (see Residential Compliance Manual, Section 3.3.6.3).</p> <p>14. Combined SHGC from CF1R-ENV-03: If exterior shading devices are combined with the solar heat gain coefficient (SHGC) value of the fenestration to meet the prescriptive SHGC requirements (as indicated by a value in column E, 13), indicate the SHGC calculated on form CF1R-ENV-03 and attach the form for each window with an exterior shading device.</p>		
To determine compliance with allowable fenestrations areas and efficiencies, complete rows 15-32. CA Building Energy Efficiency Standards - 2022 Residential Compliance		January 2022
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<p>6. Area Removed (ft²): Enter the area, in square feet (ft²), of the fenestration/glazing being removed.</p> <p>7. Area Added (ft²): Enter the area, in square feet (ft²), of the fenestration/glazing being added.</p> <p>8. Net Added Area (ft²): The difference between the Area Added and the Area Removed.</p> <p>9. Proposed U-factor: Enter (a) the National Fenestration Rating Council (NFRC) U-factor based on the proposed brand and type of fenestration using NFRC certified values, (b) the default value from Table 110.6-A, (c) Equation NA6-1, or (d) the area-weighted average U-factor calculated on form CF1R-ENV-02-E, Area-Weighted Average Calculation Worksheet.</p> <p>For the exceptions, up to 3 square feet (ft²) of tubular skylights and up to 3 ft² of glazing in a door, enter N/A, and for up to 16 ft² of skylight, enter 0.55. If any products (other than the exceptions) have a higher U-factor than 0.30, first complete an ENV-02 to calculate a weighted average U-factor and attach it to this CF1R.</p> <p>NOTE: Dynamic glazing is a glazing system that changes its performance U-factor and solar heat gain coefficient (SHGC) based on the physical environment. Dynamic glazing includes chromogenic glazing or integrated shading systems (this does not include internally or externally mounted shading devices). If using dynamic glazing, use the lowest tested U-factor and SHGC in Columns 9 and 11.</p> <p>10. Proposed U-factor Source: National Fenestration Rating Council (NFRC), Table 110.6-A, Equations NA6-1, or Area-Weighted Average Worksheet (ENV-02). The source of the U-factor data for the fenestration product.</p> <p>11. Proposed SHGC: In climate zones 2, 4, 6-15 enter the solar heat gain coefficient (SHGC) from (a) National Fenestration Rating Council (NFRC), (b) default value from Table 110.6-B, (c) Equation NA6-2, or (d) the weighted average SHGC calculated on form CF1R-ENV-02.</p> <p>For the exceptions – up to 3 square feet (ft²) of tubular skylights and up to 3 ft² of glazing in a door, enter N/A; up to 16 ft² of skylight, enter 0.30. If any products (other than the exceptions) have a higher SHGC than required by Table 150.1-A or Table 150.1-B, first complete a form CF1R-ENV-02 to calculate the area-weighted average SHGC and attach it to this CF1R.</p> <p>12. Proposed SHGC Source: National Fenestration Rating Council (NFRC), Table 110.6-B, Equations NA6-2, or Area-Weighted Average Worksheet (ENV-02). The source of the solar heat gain coefficient (SHGC) data for the fenestration product.</p> <p>13. Exterior Shading Device: If exterior shading devices are used to meet the solar heat gain coefficient (SHGC) requirement, indicate the type of device (from Table S-1 of CF1R-ENV-03 Solar Heat Gain Coefficient Worksheet) and attach an ENV-03.</p> <p>NOTES: (1)An exterior shading device is not used for products with a National Fenestration Rating Council (NFRC) rated U-factor and solar heat gain coefficient (SHGC); based on a factory integrated shading device.</p>		
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H. Water Heating Systems Water heating component for an alteration is described in Section 150.2(b)(1)H. Options: <ol style="list-style-type: none"> 1. Gas or propane water heating system; or 2. A single heat pump water heater. The storage tank shall not be located outdoors and shall be placed on an incompressible, rigid insulated surface with a minimum thermal resistance of R-10. The water heater shall be installed with a communication interface that meets either the requirements of Section 110.12(a) or has a ANSI/CTA-2045-B communication port; or 3. A single heat pump water heater that meets the requirements of NEEA Advanced Water Heater Specification Tier 3 or higher; or 4. If no natural gas is connected to the existing water heater location, a consumer electric water heater <ol style="list-style-type: none"> 1. Is natural gas connected to the existing water heater? Yes or No. 2. Water Heating System Identification or Name: Name of the Water Heating System or any other identifying name. 3. System Option (from §150.2(b)(1)Hiii): Indicate the prescriptive option: 1, 2, 3, or 4. 4. Water Heating System Type: Domestic Hot Water (DHW), Hydronic, or Combined Hydronic. DHW is for domestic hot water, hydronic is a water heating system used for space heating only; combined hydronic is when the water heater will provide both space conditioning and domestic hot water. 5. Water Heater Type: Consumer Instantaneous, Consumer Storage, Heat pump water heater, NEEA Tier 3 heat pump water heater 6. Volume: Indicate the volume of the storage tank. For consumer instantaneous, enter "n/a". 7. Fuel Type: Natural Gas, Propane, Heat Pump, Electricity. 8. Number of Water Heaters in System: Enter the total number of water heaters for each system. 		
Documentation Declaration Statements <ol style="list-style-type: none"> 1. The person who prepared the CF1R will sign and complete the fields for their name, company (if applicable), address, phone number, certification information (if applicable), date and signature. 2. The person who is assuming responsibility for the project being built to comply with Title 24, Part 6, will complete the fields for their name, company (if applicable), address, phone number, license number (if applicable), date and signature. 		
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1 SITE PLAN
AS101

SITE PLAN GENERAL NOTES

1. REFER TO GENERAL NOTES SHEET G-101 FOR ADDITIONAL REQUIREMENTS
2. REFER TO CIVIL PLANS FOR FURTHER INFORMATION.
3. REFER TO LANDSCAPE PLANS FOR FURTHER INFORMATION.
4. REFER TO STRUCTURAL PLANS FOR FURTHER INFORMATION.
5. REFER TO MECHANICAL PLANS FOR FURTHER INFORMATION.
6. REFER TO ELECTRICAL PLANS FOR FURTHER INFORMATION.
7. REFER TO PLUMBING PLANS FOR FURTHER INFORMATION.
8. ALL SIDEWALKS, CROSSWALKS, COMMON AREAS AND BUILDING ENTRANCES SHALL BE ACCESSIBLE AND IN COMPLIANCE WITH 2019 CBC 11B.
 - A. FLOOR AND GROUND SURFACES SHALL BE STABLE, FIRM, AND SLIP RESISTANT.
 - B. OPENINGS IN FLOOR OR GROUND SURFACES SHALL NOT ALLOW PASSAGE OF A SPHERE <1/2".
 - C. VERTICAL CHANGES IN LEVEL SHALL NOT EXCEED 1/4".
 - D. THE CLEAR WIDTH FOR SIDEWALKS AND WALKS SHALL BE 48" MIN.
9. ALL CURBING NOT WITHIN A PARKING SPACE SHALL BE PAINTED RED TO DESIGNATE THE FIRE LANES
10. CONTRACTOR TO REVIEW LANDSCAPE PLANS TO AVOID CONFLICTS BETWEEN PLANTINGS AND UTILITIES, I.E. METER LOCATIONS, ELECTRIC TRANSFORMER, BACKFLOW PREVENTERS, SEWER LINES AND ELECTRIC CONDUIT (POLE LIGHTING AT DRIVEWAY), ETC.

KEYNOTES

- 02.02 EXISTING OPEN YARD AREA PROTECT IN PLACE
02.03 EXISTING ASPHALT PARKING AND DRIVE PROTECT IN PLACE
02.05 EXISTING HARDSCAPE PROTECT IN PLACE THROUGHOUT

SITE PLAN LEGEND

- PROPERTY LINE
- - - SETBACK
- - - EASEMENT
- - - ACCESSIBLE PATH OF TRAVEL (EXISTING TO REMAIN NO CHANGE)
(SHALL BE 48" MIN. CBC 11B-403.5)
CONCRETE PAVING
LANDSCAPE AREA, REFER TO LANDSCAPE DRAWINGS.
STANDARD ACCESSIBLE STALL
VAN ACCESSIBLE STALL

TABLE OF BUILDING TYPES

- BUILDING A1, & A2: SEE SHEET FOR FLOOR PLAN, SEE SHEET FOR ELEVATIONS
BUILDING B1, & B2: SEE SHEET FOR FLOOR PLAN, SEE SHEET FOR ELEVATIONS
BUILDING C1,C2,C3, & C4: SEE SHEET FOR FLOOR PLAN, SEE SHEET FOR ELEVATIONS
BUILDING D1,D2,D3, & D4: SEE SHEET FOR FLOOR PLAN, SEE SHEET FOR ELEVATIONS



CONSULTANT

AGENCY

DAISY APARTMENTS DOOR AND WINDOW RETROFIT
10540 DAISY DR
VENTURA, CA 93004
ARCHITECTURAL SITE PLAN

NO.	REVISION	DATE
1		
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6		

PROJECT MANAGER	
DRAWN BY	CHECKED BY
DATE	
PROJECT NUMBER	2371-02
SHEET	AS101



CONSULTANT

AGENCY

FLOOR PLAN GENERAL NOTES

1. REFER TO GENERAL NOTES SHEET G-101 FOR ADDITIONAL REQUIREMENTS.
2. EXISTING WALL TYPES AND ASSEMBLIES AND FINISHES TO REMAIN, REPAIR IN PLACE.
3. DIMENSIONS SHOWN TO EXISTING CONDITIONS AND SHALL NOT GOVERN PLACEMENT OF IMPROVEMENTS. CONTRACTOR TO VERIFY IN FIELD.
4. PLACEMENT OF ALL DOORS AND WINDOWS AND TO MATCH EXISTING.
5. MAINTAIN EXISTING BLOCKING IN WALLS FOR CABINETS AND OTHER WALL MOUNTED ACCESSORIES INCLUDING BUT NOT LIMITED TO HANDRAILS, SHELVEING AND BATHROOM FIXTURES.
6. MAINTAIN EXISTING FIREBLOCKING FOR WALL CAVITIES THAT EXCEED 2022 CBC HEIGHT LIMITATIONS.
7. SEE CODE ANALYSIS FOR LOCATIONS OF FIRE PARTITIONS AND FIRE BARRIERS.
8. WHERE RECESSED FIXTURES OCCUR IN WALLS OR HORIZONTAL ASSEMBLIES, THE FIRE RATING OF THOSE ASSEMBLIES SHALL BE MAINTAINED.
9. AT ALL PENETRATIONS AND INTERSECTIONS OF FIRE-RATED PARTITIONS, PROVIDE FIRE SEALANT AND/OR FIRE STOPPING TO MAINTAIN CONTINUITY OF PARTITION RATING.
10. TRIM AND CARPENTRY REPAIR TO BE PROVIDED AS NEEDED THROUGHOUT THE PROJECT NEEDED TO MAINTAIN A FINISHED APPEARANCE.
11. REPAIR STUCCO TO MATCH EXISTING.
12. PAINT OF TRIM AND PAINTING OF WORK REPAIRED DURING INSTALLATION OF NEW DOORS AND WINDOWS OTHER THAN STUCCO REPAIR TO BE PROVIDE BY THE OWNERS OWN FORCES.

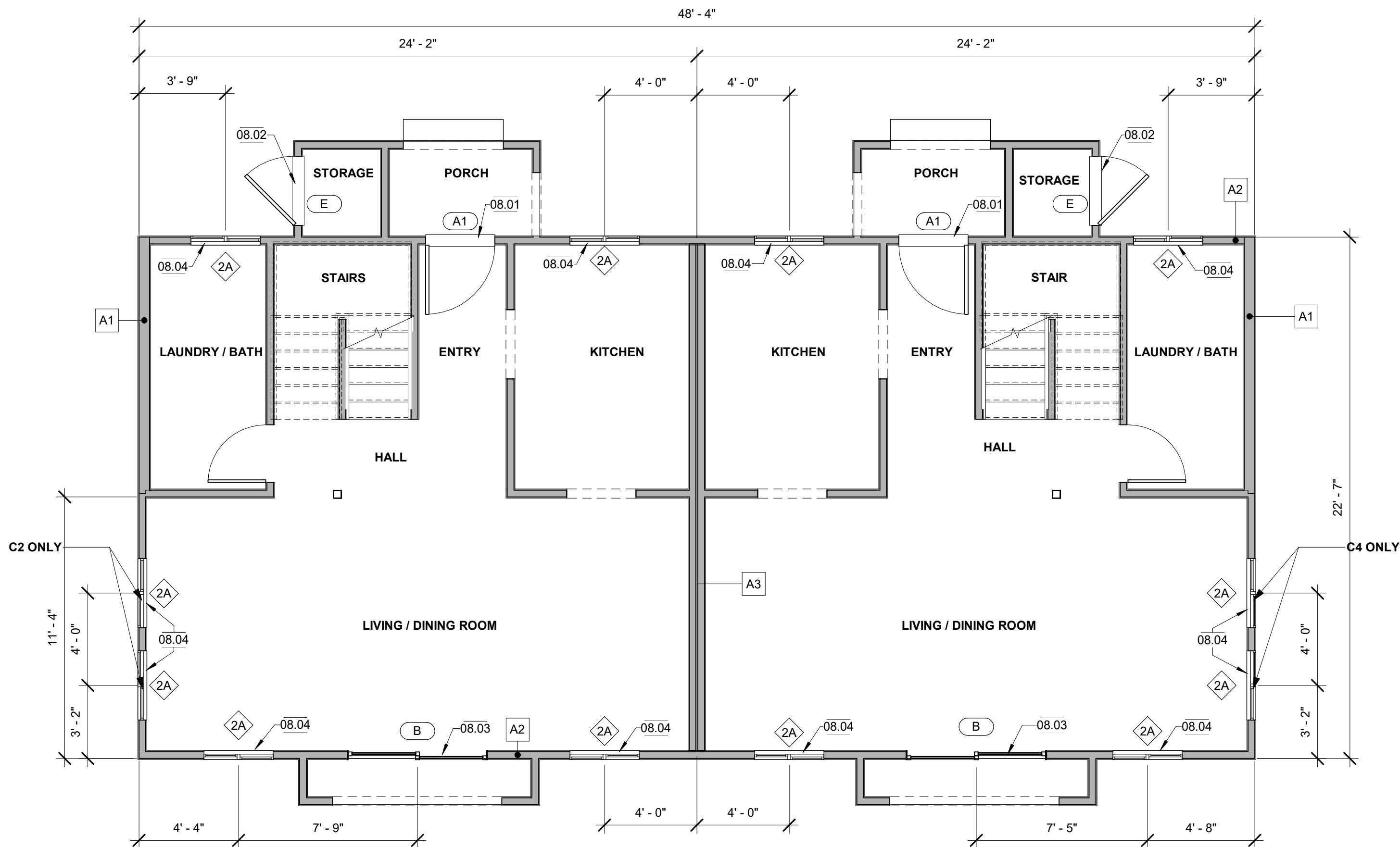
KEYNOTES

- | | |
|-------|---|
| 07.01 | DWELLING UNIT FIRE SEPERATION, 1 HR RATED MIN. PROTECT IN PLACE |
| 08.01 | EXISTING ENTRY DOOR TO BE REMOVED AND REPLACED WITH NEW, REMOVE AND REPLACE EXISTING THRESHOLD WITH ADA COMPLIANT ENTRY DOOR THRESHOLD PER SPECIFICATIONS. REPLACE DOOR WEATHER STRIPPING, AND BOTTOM SEAL PER MANUFACTURER RECOMMENDATIONS |
| 08.02 | EXISTING EXTERIOR DOOR TO BE REMOVED AND REPLACED WITH NEW, SEE DOOR SCHEDULE |
| 08.03 | EXISTING SLIDER DOOR TO BE REMOVED AND REPLACED WITH NEW, SEE DOOR SCHEDULE |
| 08.04 | EXISTING WINDOW TO BE REMOVED AND REPLACED WITH NEW, SEE WINDOW SCHEDULE |

WALL LEGEND

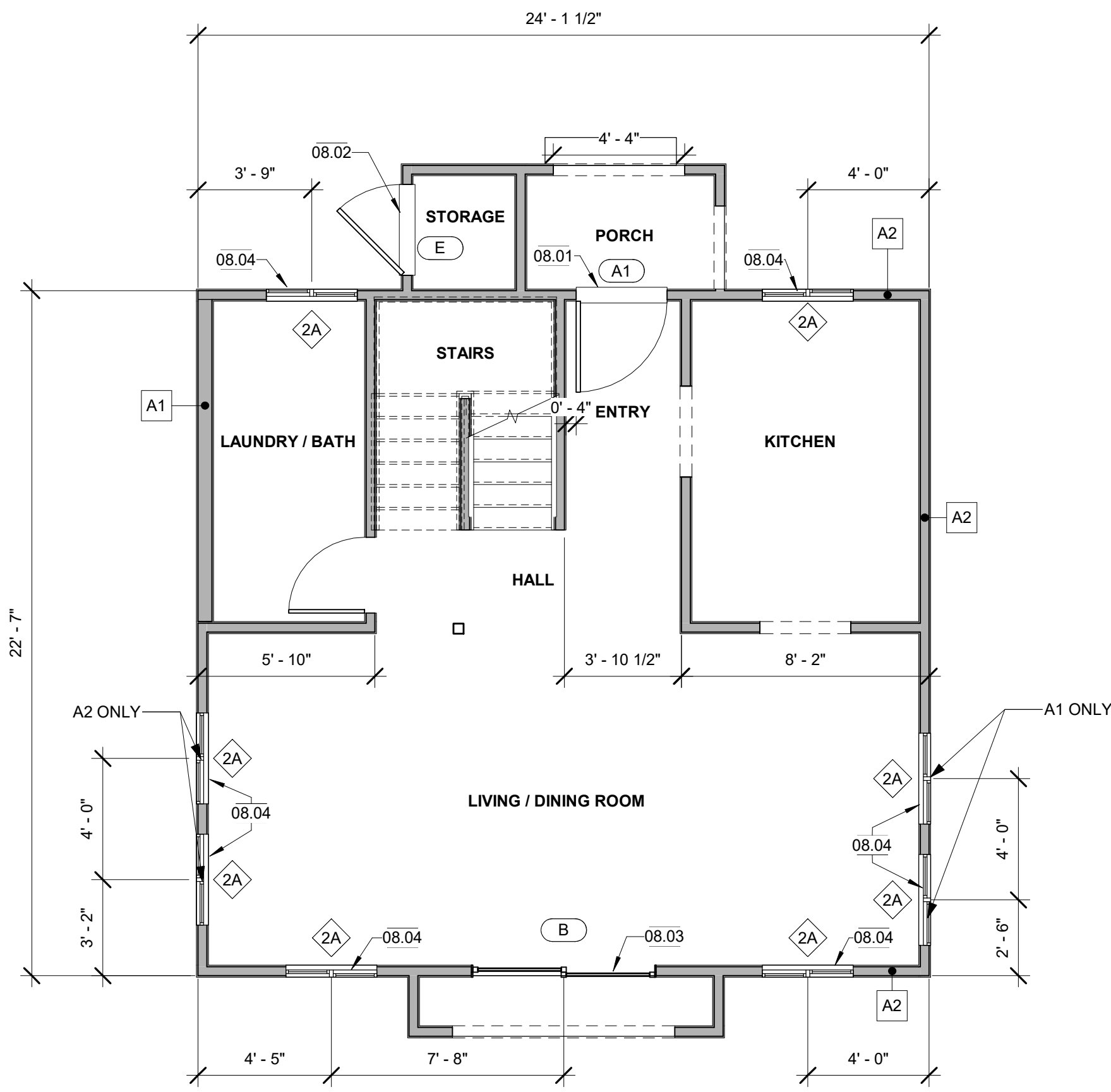
- | | |
|----|---|
| A1 | EXISTING 6" EXTERIOR WALLS: 2X6 WOOD STUDS AT 16" O.C. WITH 1-LAYER 5/8" TYPE "X" GYPSUM BOARD AT INTERIOR SIDE AND 7/8" EXTERIOR PLASTER OVER PAPER-BACKED METAL LATH AT EXTERIOR SIDE. (PROVIDE PLYWOOD SHEATHING, WITH 1/8" AIR SPACE BETWEEN EACH PLYWOOD PANEL, WHERE SHOWN ON STRUCTURAL DRAWINGS. PROVIDE 2-LAYERS OF GRADE D PAPER WHERE PLASTERING OVER PLYWOOD). PROVIDE R-19 FIBERGLASS BATT INSULATION. |
| A2 | EXISTING 4" EXTERIOR WALLS: 2X4 WOOD STUDS AT 16" O.C. WITH 1-LAYER 5/8" TYPE "X" GYPSUM BOARD AT INTERIOR SIDE AND 7/8" EXTERIOR PLASTER OVER PAPER-BACKED METAL LATH AT EXTERIOR SIDE. (PROVIDE PLYWOOD SHEATHING, WITH 1/8" AIR SPACE BETWEEN EACH PLYWOOD PANEL, WHERE SHOWN ON STRUCTURAL DRAWINGS. PROVIDE 2-LAYERS OF GRADE D PAPER WHERE PLASTERING OVER PLYWOOD). PROVIDE R-13 FIBERGLASS BATT INSULATION. |
| A3 | EXISTING STC-50 SOUND-RATED PARTY WALLS: 2ROWS OF 2X4 WOOD STUDS AT 16" O.C. SEPARATED BY 1" CLEAR AIR SPACE, WITH R-11 FIBERGLASS BATT INSULATION AT EACH ROW OF STUDS. PROVIDE 1-LAYER 5/8" TYPE "X" GYPSUM BOARD EACH SIDE. |

DIMENSIONS ARE REFERENCED TO EXISTING CONDITION. CONTRACTOR TO VERIFY IN FIELD. EXISTING ROUGH OPENINGS TO REMAIN.



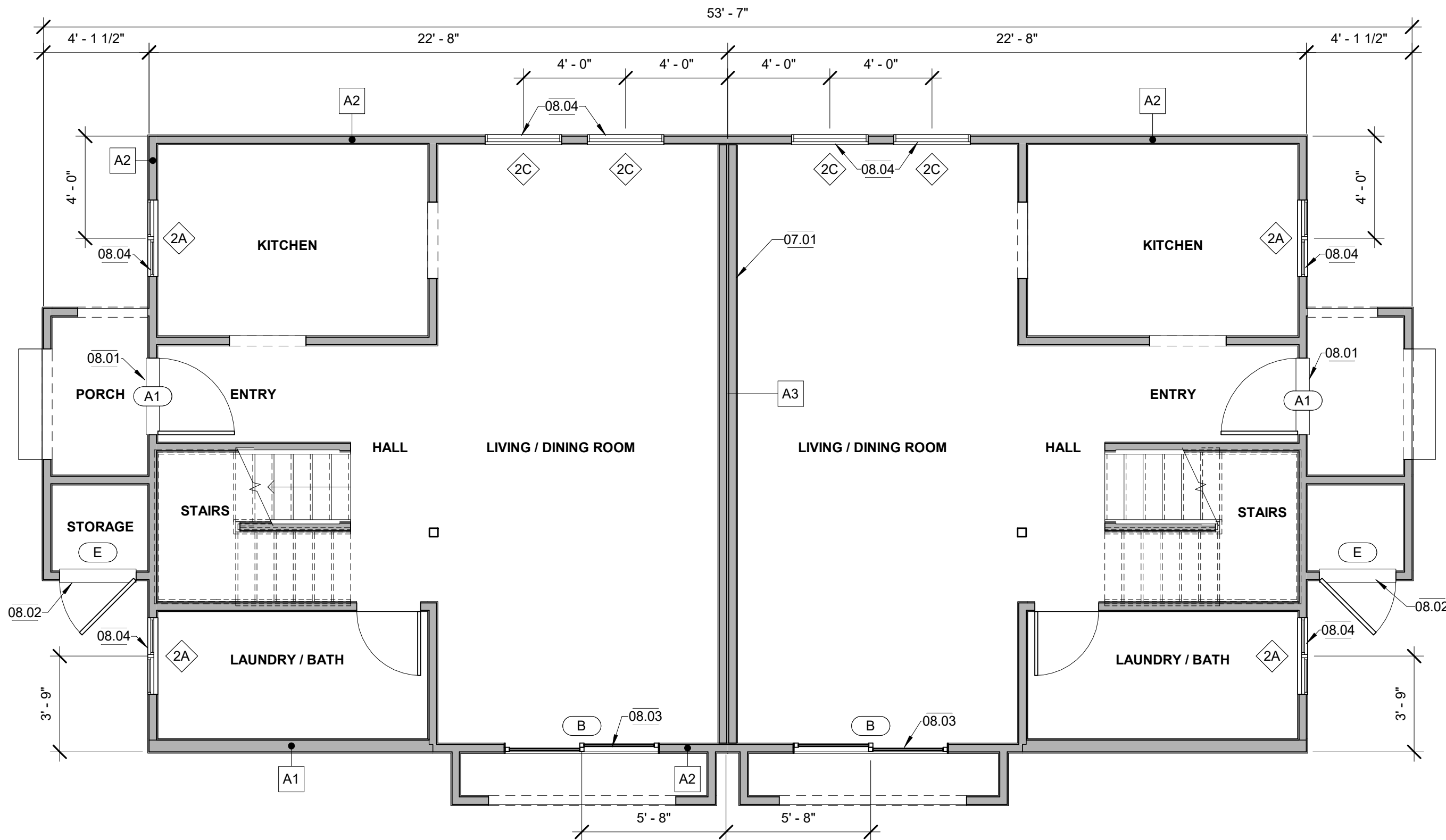
2 BUILDING TYPE C

A-101 SCALE: 1/4" = 1'-0"



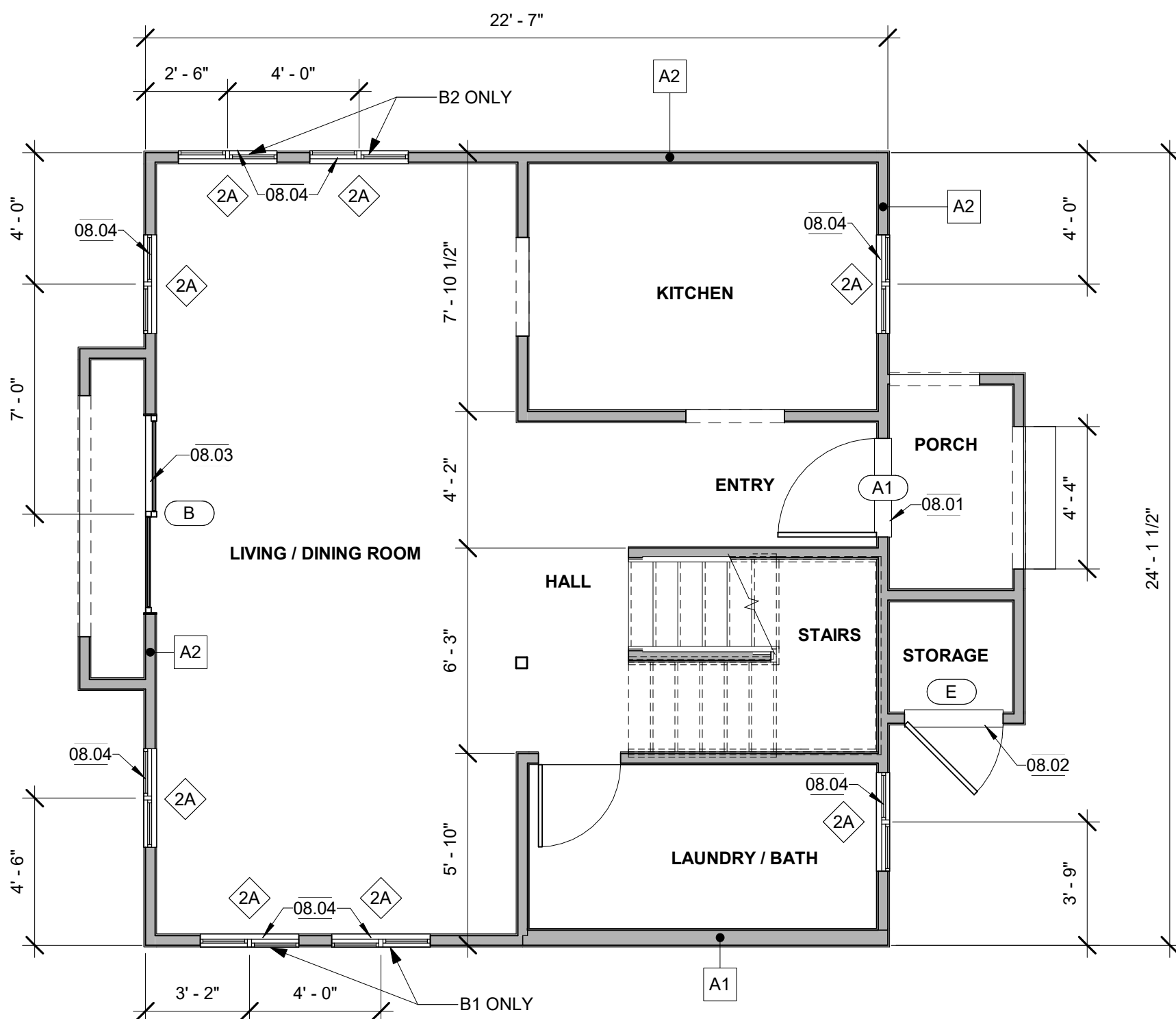
1 BUILDING TYPE A

A-101 SCALE: 1/4" = 1'-0"



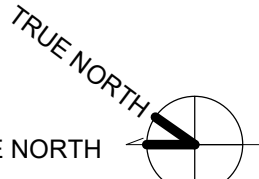
4 BUILDING TYPE D

A-101 SCALE: 1/4" = 1'-0"



3 BUILDING TYPE B

A-101 SCALE: 1/4" = 1'-0"



DAISY APARTMENTS DOOR AND WINDOW RETROFIT

10540 DAISY DR
VENTURA, CA 93004

FIRST FLOOR PLANS

NO.	REVISION	DATE
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PROJECT MANAGER

DRAWN BY

CHECKED BY

DATE

PROJECT NUMBER

2371-02

SHEET

A-101

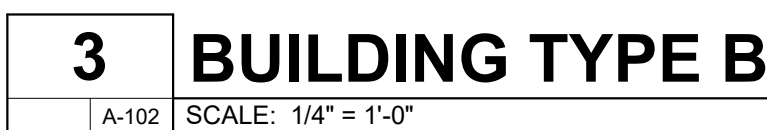
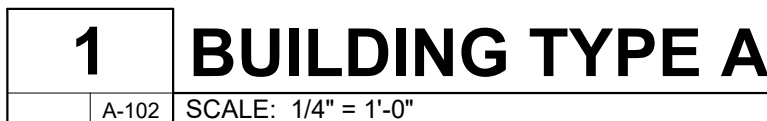
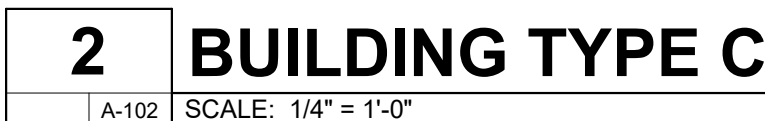
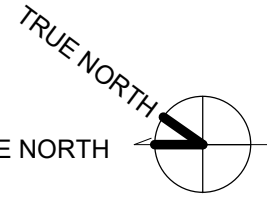
2. REFER TO GENERAL NOTES SHEET G-101 FOR ADDITIONAL REQUIREMENTS.
3. EXISTING WALL TYPES AND ASSEMBLIES AND FINISHES TO REMAIN, REPAIR IN PLACE.
4. EXISTING CONDITIONS SHOWING TO EXISTING CONDITIONS AND SHALL NOT GOVERN PLACEMENT OF IMPROVEMENTS. CONTRACTOR TO VERIFY IN FIELD.
5. PLACEMENT OF ALL DOORS AND WINDOWS AND TO MATCH EXISTING.
6. EXISTING WALLS TO BE RECONSTRUCTED TO MATCH EXISTING. RECONSTRUCT WALLS WITH MOUNTED ACCESSORIES INCLUDING BUT NOT LIMITED TO HANDRAILS, SHELVING, AND BATHROOM FIXTURES.
7. MAINTAIN FIRE LOOKING FOR WALL CAVITIES THAT EXCEED 2022 CBC HEIGHT LIMITATIONS.
8. DOOR AND WINDOW DIMENSIONS ARE CENTERED AT OPENINGS.
9. SEE ANALYSIS FOR LOCATIONS OF FIRE PARTITIONS AND FIRE BARRIERS.
10. WHERE RECESSED CAVITIES OCCUR IN WALLS OR HORIZONTAL ASSEMBLIES, THE FIRE RATING OF THOSE ASSEMBLIES SHALL BE MAINTAINED.
11. AT ALL PENETRATIONS AND INTERSECTIONS OF FIRE-RATED PARTITIONS, ASSEMBLIES, THE FIRE RATING OF THOSE ASSEMBLIES SHALL BE MAINTAINED.
12. TRIM AND CARPENTRY REPAIR TO BE PROVIDED AS NEEDED THROUGHOUT THE PROJECT TO MATCH EXISTING.
13. REPAIR STUCCO TO MATCH EXISTING.
14. PAINT OF TRIM AND PAINTING OF WORK REPAIR DURING INSTALLATION OF THE PROJECT WITH WALLS AND WINDOWS TO MATCH STUCCO REPAIR TO BE PROVIDED BY THE OWNERS OWN FINISHES.

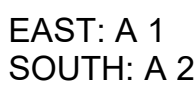
A1 **EXISTING 6" EXTERIOR WALLS:** 2X6 WOOD STUDS AT 16" O.C. WITH 1" - LAYER 58" TYPE "X" GYPSUM BOARD AT INTERIOR SIDE AND 7/8" EXTERIOR PLASTER OVER PAPER-BACKED METAL LATH AT EXTERIOR SIDE. PROVIDE PLYWOOD SHEATHING, WITH 1/8" AIR SPACE BETWEEN EACH PLYWOOD PANEL, WHERE SHOWN ON STRUCTURAL DRAWINGS. PROVIDE 2 - LAYERS OF GRADE D PAPER WHEN PLASTERING OVER PLYWOOD). PROVIDE R-19 FIBERGLASS BATT INSULATION.

A2 **EXISTING 4" EXTERIOR WALLS:** 2X4 WOOD STUDS AT 16" O.C. WITH 1" - LAYER 58" TYPE "X" GYPSUM BOARD AT INTERIOR SIDE AND 7/8" EXTERIOR PLASTER OVER PAPER-BACKED METAL LATH AT EXTERIOR SIDE. PROVIDE PLYWOOD SHEATHING, WITH 1/8" AIR SPACE BETWEEN EACH PLYWOOD PANEL, WHERE SHOWN ON STRUCTURAL DRAWINGS. PROVIDE 2 - LAYERS OF GRADE D PAPER WHEN PLASTERING OVER PLYWOOD). PROVIDE R-13 FIBERGLASS BATT INSULATION.

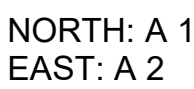
A3 **EXISTING 32x50 SOUND-RAISED PARTY WALLS:** 2ROWS OF 2X4 WOOD STUDS AT 16" O.C. SEPARATED BY 1" CLEAR AIR SPACE, WITH 1" FIBERGLASS BATT INSULATION. PROVIDE 1" - LAYER 58" TYPE "X" GYPSUM BOARD EACH SIDE.

PROJECT MANAGER	
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PROJECT NUMBER	
2371-02	
SHEET	

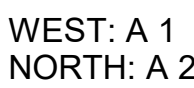




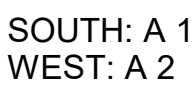
3 TYPE A - WEST TYPICAL OF 2 UNITS



2	TYPE A - NORTH	TYPICAL OF 2 UNITS



3 TYPE A - WEST TYPICAL OF 2 UNITS



4	TYPE A - SOUTH	TYPICAL OF 2 UNITS

**TYPICAL ELEVATIONS SHOWN
BY BUILDING TYPE, MULTIPLE
INSTANCES OF EACH BUILDING
TYPE OCCURE.**

1. REFER TO GENERAL NOTES SHEET G-101 FOR ADDITIONAL REQUIREMENTS.
2. FRAMING ELEVATIONS, INCLUDING FLOOR PLATES AND FLOOR LEVEL ELEVATIONS, SHALL BE PROVIDED BY THE ARCHITECT.
3. SEE DETAILS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
4. PROVIDE ROOF PITCH AND OVERHANGS AND FASCIA TO REMAIN, PROTECT IN PLACE.
5. SEE ROOF PLAN FOR APPROXIMATE DOWNSPOUT LOCATIONS, U.N.O. CONTRACTOR TO OBTAIN WORK SCHEDULES AND TYPES FOR ROOF AND WINDOW INFORMATION.
6. CONTRASTED TO EXISTING COLOR SCHEME WITH OWNER BEFORE PERFORMING THE WORK.
7. TRIM AND CARPENTRY REPAIR TO BE PROVIDED AS NEEDED THROUGHOUT PROJECT TO MATCH EXISTING MATERIALS AND FINISHES.
8. REPAIR STUCCO TO MATCH EXISTING.
9. PAINT OF TRIM AND PAINTING OF WORK REPAIR REQUIRED AFTER INSTALLATION OF WORK.
10. PROVIDE FINISH 11" SQUARE WOOD DOORS AND 11" SQUARE TRIM TO BE BY THE OWNERS OWN FORCE.
11. PROVIDE FINISH AND PAINTED DOORS PER OWNER'S COLOR SPECIFICATION.

02.06	EXISTING PARAPET TO REMAIN IN PLACE
02.01	EXISTING ENTRY DOOR TO BE REMOVED AND REPLACED WITH NEW, REMOVE ALL EXISTING EXTERIOR THRESHOLD WITH ADA COMPLIANT ENTRY DOOR THRESHOLD PER SPECIFICATIONS. REPLACE DOOR WEATHER STRIPPING, AND BOTTOM SEAL PER MANUFACTURER'S RECOMMENDATIONS
02.02	EXISTING EXTERIOR DOOR TO BE REMOVED AND REPLACED WITH NEW, SEE DOOR SCHEDULE
02.03	EXISTING SLIDER DOOR TO BE REMOVED AND REPLACED WITH NEW, SEE DOOR SCHEDULE
02.04	EXISTING WINDOW TO BE REMOVED AND REPLACED WITH NEW, SEE WINDOW SCHEDULE
09.01	EXISTING STUCCO FINISH REPAIR TO MATCH EXISTING



CONSULTANT

AGENCY

DAISY APARTMENTS DOOR AND WINDOW RETROFIT
10540 DAISY DR
VENTURA, CA 93004

TYPE A - EXTERIOR ELEVATIONS

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PROJECT MANAGER

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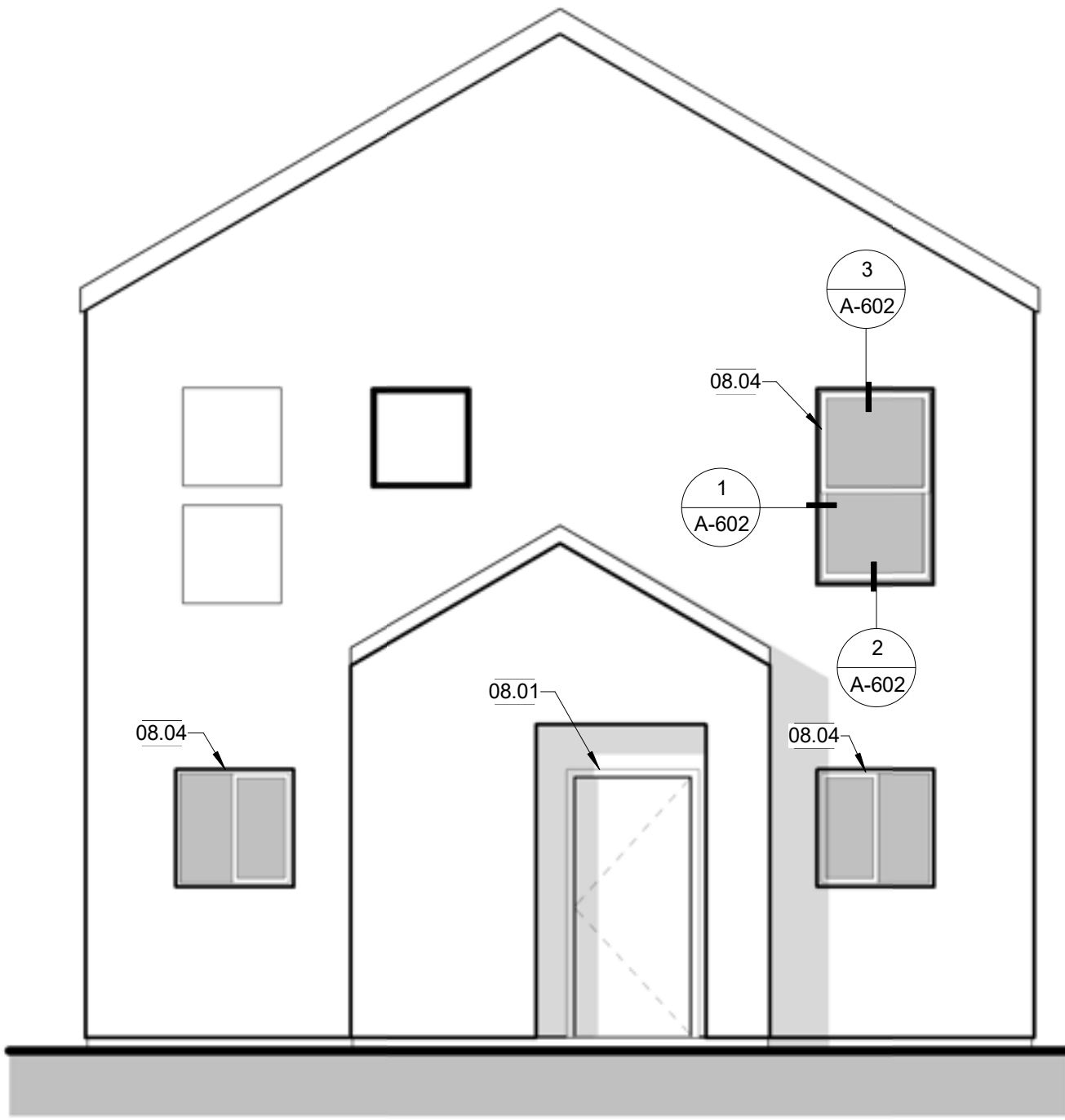
DATE _____

PROJECT NUMBER

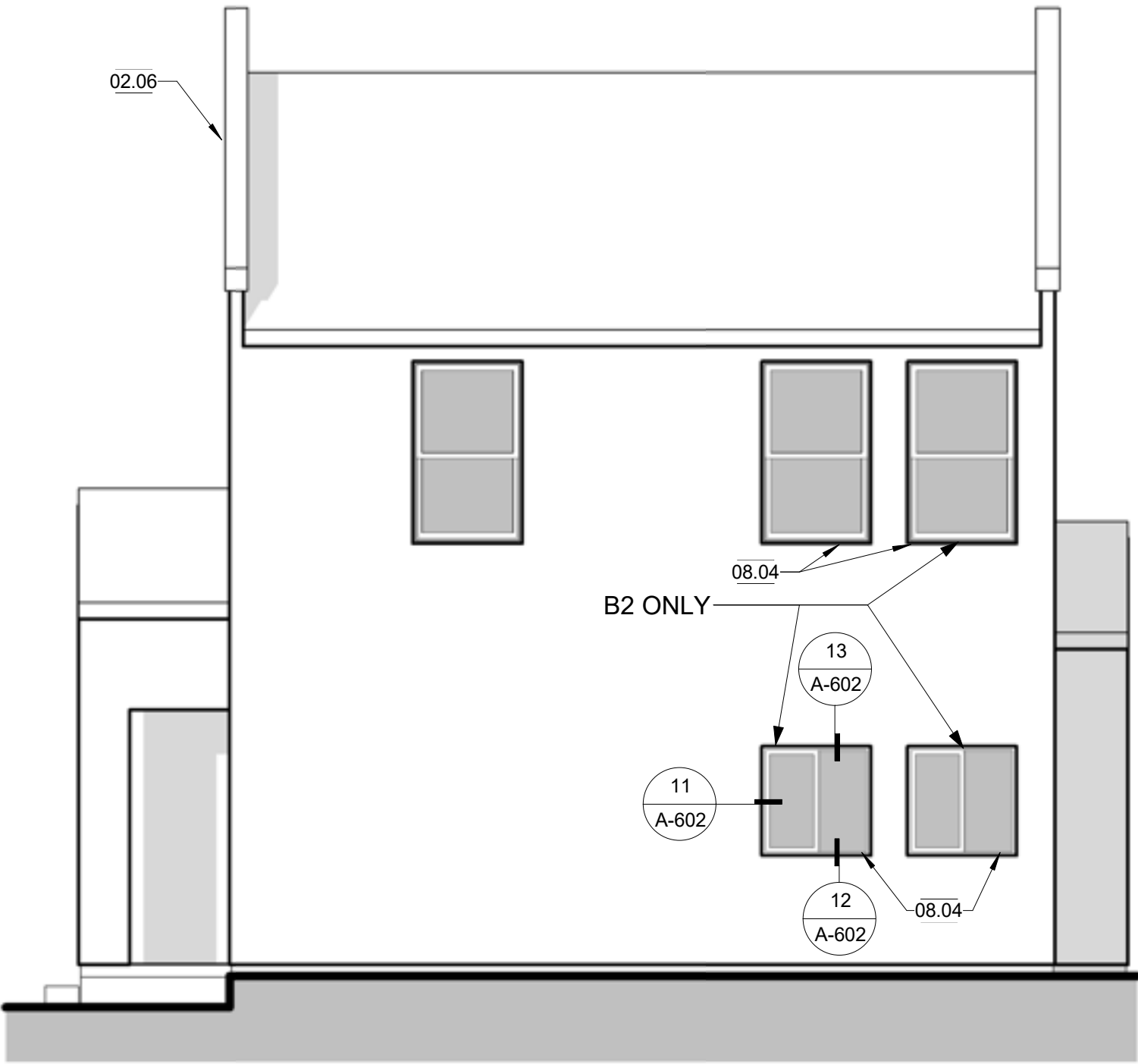
SHEET

A-201

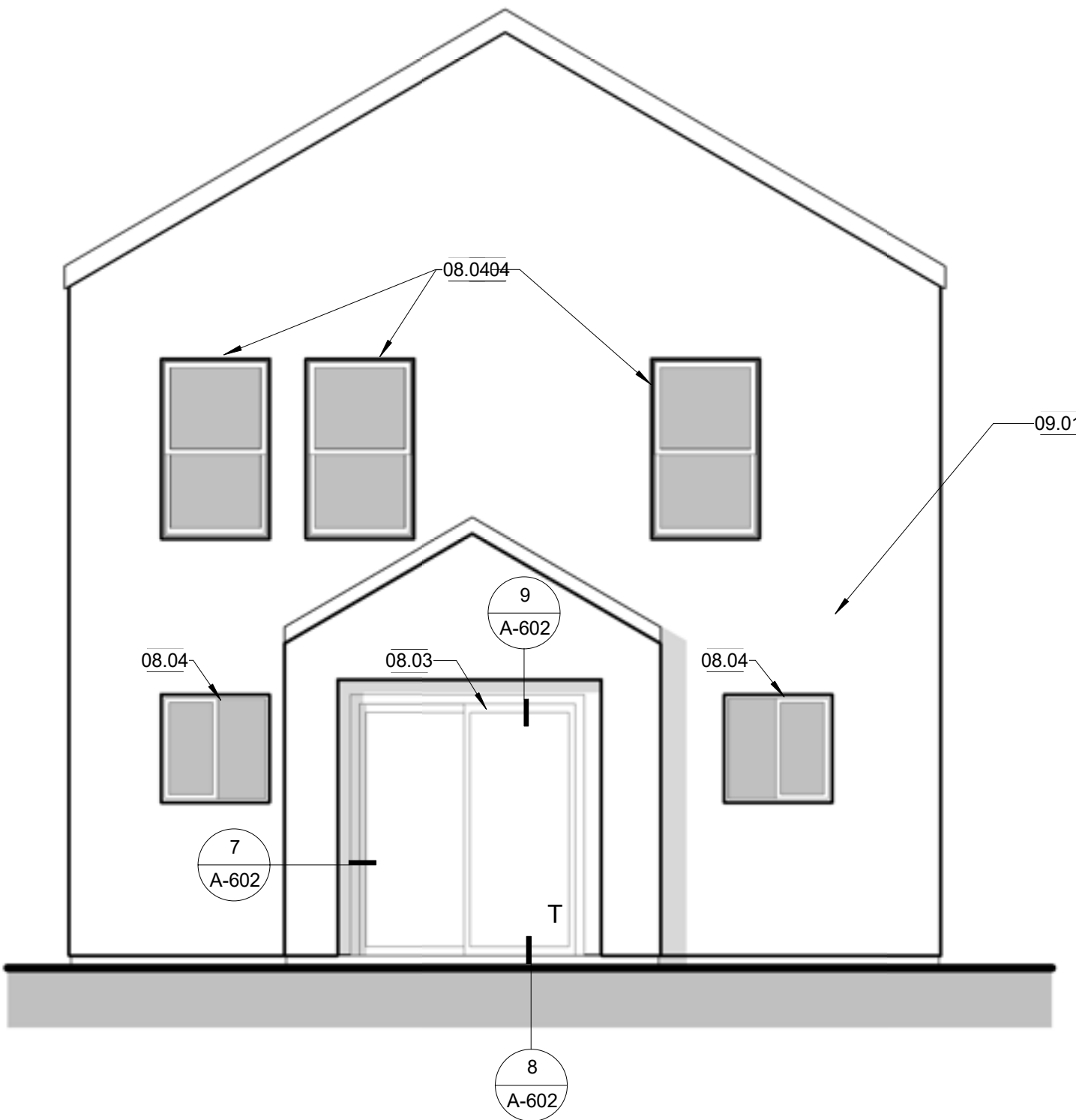
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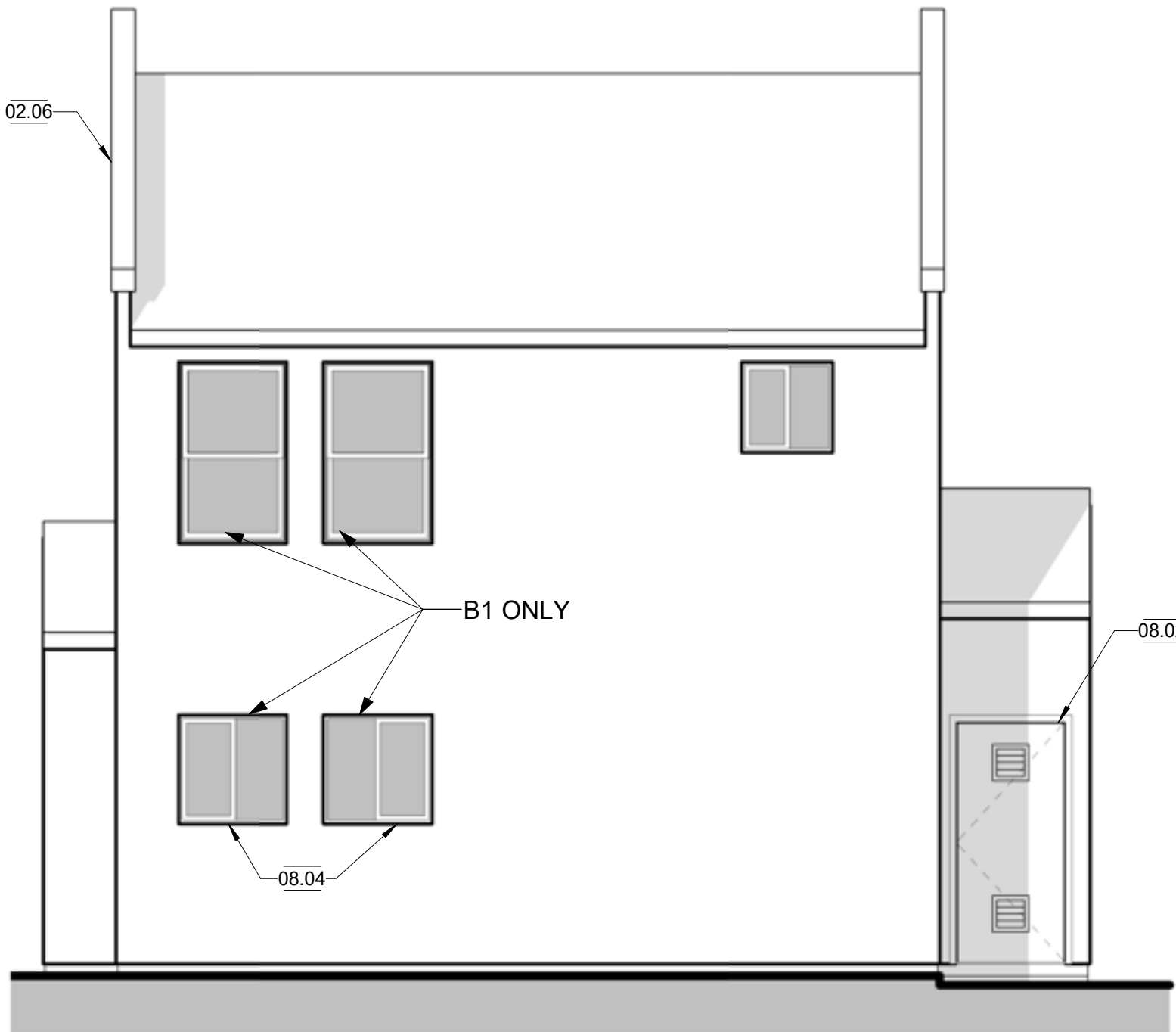
1 NORTH - TYPE B
A-202 SCALE: 1/4" = 1'-0"



2 EAST - TYPE B
A-202 SCALE: 1/4" = 1'-0"



3 SOUTH - TYPE B
A-202 SCALE: 1/4" = 1'-0"



4 WEST - TYPE B
A-202 SCALE: 1/4" = 1'-0"

TYPICAL ELEVATIONS SHOWN
BY BUILDING TYPE, MULTIPLE
INSTANCES OF EACH BUILDING
TYPE OCCURE.

ELEVATION GENERAL NOTES

1. REFER TO GENERAL NOTES SHEET G-101 FOR ADDITIONAL REQUIREMENTS.
2. FRAMING ELEVATIONS, INCLUDING FLOOR PLATES AND FLOOR LEVEL ELEVATIONS ARE MEASURED FROM BUILDING FINISH FLOOR, U.N.O.
3. SEE DETAILS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
4. EXISTING ROOF PITCH AND OVERHANGS AND FASCIA TO REMAIN, PROTECT IN PLACE.
5. SEE ROOF PLAN FOR APPROXIMATE DOWNSPOUT LOCATIONS, U.N.O.
6. REFER TO DOOR AND WINDOW SCHEDULES AND TYPES FOR DOOR AND WINDOW INFORMATION.
7. CONTRACTOR TO VERIFY COLOR SCHEME WITH OWNER BEFORE PERFORMING THE WORK.
8. TRIM AND CARPENTRY REPAIR TO BE PROVIDED AS NEEDED THROUGHOUT THE PROJECT NEEDED TO MAINTAIN OR RESTOR A FINISHED APPEARANCE.
9. REPAIR STUCCO TO MATCH EXISTING.
10. PAINT OF TRIM AND PAINTING OF WORK REPAIRED DURING INSTALLATION OF NEW DOORS AND WINDOWS OTHER THAN STUCCO REPAIR TO BE PROVIDE BY THE OWNERS OWN FORCES.
11. PROVIDE PRIMED AND PAINTED DOORS PER OWNERS COLOR SPECIFICATION

KEYNOTES

- 02.06 EXISTING PARAPET TO REMAIN IN PLACE
- 08.01 EXISTING ENTRY DOOR TO BE REMOVED AND REPLACED WITH NEW. REMOVE AND REPLACE EXISTING THRESHOLD WITH ADA COMPLIANT ENTRY DOOR THRESHOLD PER SPECIFICATIONS. REPLACE DOOR WEATHER STRIPPING AND BOTTOM SEAL PER MANUFACTURER RECOMMENDATIONS.
- 08.02 EXISTING EXTERIOR DOOR TO BE REMOVED AND REPLACED WITH NEW. SEE DOOR SCHEDULE
- 08.03 EXISTING SLIDER DOOR TO BE REMOVED AND REPLACED WITH NEW. SEE DOOR SCHEDULE
- 08.04 EXISTING WINDOW TO BE REMOVED AND REPLACED WITH NEW. SEE WINDOW SCHEDULE
- 09.01 EXISTING STUCCO FINISH REPAIR TO MATCH EXISTING



CONSULTANT

AGENCY

DAISY APARTMENTS DOOR AND WINDOW RETROFIT

10540 DAISY DR
VENTURA, CA 93004

TYPE B - EXTERIOR ELEVATION

NO.	REVISION	DATE
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PROJECT MANAGER

DRAWN BY

CHECKED BY

DATE

PROJECT NUMBER

2371-02

SHEET

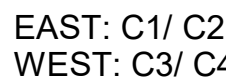
A-202



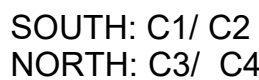
AGENCY

1. REFER TO GENERAL NOTES SHEET G-101 FOR ADDITIONAL REQUIREMENTS.
2. FRAMING ELEVATIONS, INCLUDING FLOOR PLATES AND FLOOR LEVEL ELEVATIONS, SHALL BE SHOWN ON THE DRAWINGS.
3. SEE DETAILS S FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
4. EXISTING ROOF PITCH AND OVERHANGS AND FASCIA TO REMAIN, PROTECT AND REPAIR.
5. SEE ROOF PLAN FOR APPROXIMATE DOWNSPOUT LOCATIONS, U.O. AND D.O. LOCATIONS, WINDOW SCHEDULES AND TYPES FOR D.I.R. AND WINDOW INFORMATION.
6. CONTRACTOR TO VERIFY COLOR SCHEME WITH OWNER BEFORE PERFORMING.
7. TRIM AND CARPENTRY REPAIR TO BE PROVIDED AS NEEDED THROUGHOUT PROJECT.
8. REPAIR STUCCO TO MATCH EXISTING.
9. REPAIR STUCCO TO MATCH EXISTING.
10. POINT OF TRIM AND PAINTING OF WORK REQUIRED DURING INSTALLATION OF NEW STUCCO SHALL BE IDENTIFIED BY THE ARCHITECT. STUCCO REPAIR TO BE PROVIDED BY THE OWNERS OWNED FIRM.
11. PROVIDE PRIMED AND PAINTED DOORS PER OWNERS COLOR SPECIFICATIONS.

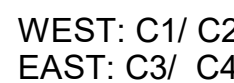
02.06	EXISTING ROOFING TO REMAIN
02.06	EXISTING PARAPET TO REMAIN IN PLACE
08.01	EXISTING ENTRY DOOR TO BE REMOVED AND REPLACED WITH NEW, REMOVE AND REPLACE EXISTING THRESHOLD WITH ADA COMPLIANT ENTRY THRESHOLD PER SPECIFICATIONS, REPLACE DOOR WEATHER STRIPPING, AND BOTTOM SEAL PER MANUFACTURER RECOMMENDATIONS
08.02	EXISTING EXTERIOR DOOR TO BE REMOVED AND REPLACED WITH NEW, SEE DOOR SCHEDULE
08.03	EXISTING SLIDER DOOR TO BE REMOVED AND REPLACED WITH NEW, SEE DOOR SCHEDULE
08.04	EXISTING WINDOW TO BE REMOVED AND REPLACED WITH NEW, SEE WINDOW SCHEDULE
09.01	EXISTING STUCCO FINISH REPAIR TO MATCH EXISTING



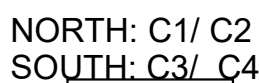
A-203	SCALE: 1/4" = 1'-0"
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A-203	SCALE: 1/4" = 1'-0"
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A-203	SCALE: 1/4" = 1'-0"
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A-203	SCALE: 1/4" = 1'-0"
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**TYPICAL ELEVATIONS SHOWN
BY BUILDING TYPE, MULTIPLE
INSTANCES OF EACH BUILDING
TYPE OCCURE.**

DAISY APARTMENTS DOOR AND WINDOW RETROFIT
10540 DAISY DR
VENTURA, CA 93004

TYPE C - EXTERIOR ELEVATIONS

[illegible]

PROJECT MANAGER

DRAWN BY	CHECKED BY
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DATE _____

PROJECT NUMBER

SHEET

A-203

DOOR TYPES LEGEND



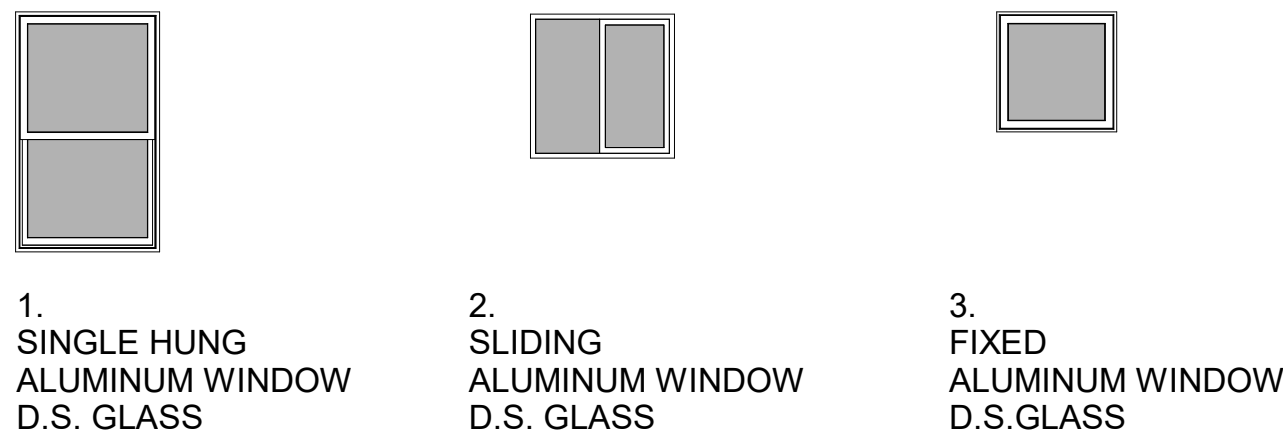
DOOR SCHEDULE

TYPE	DESCRIPTION	COUNT	DOOR				FIRE RATING	HARDWARE SET	DETAIL - HEAD	DETAIL - JAMB	DETAIL - SILL	REMARKS
			WIDTH	HEIGHT	THICKNESS	MATERIAL						
A1		20	3' - 0"	6' - 8"	0' - 2"		1 HR	1	12/A-602	14/A-602	13/A-602	FIRE RATED
B		20	6' - 0"	7' - 0"	0' - 2"			2	32/A-602	34/A-602	33/A-602	TEMPERED SAFETY
E		20	3' - 0"	6' - 8"	0' - 2"			3	12/A-602	14/A-602	13/A-602	

HARDWARE TYPE

- GROUP 1 UNIT ENTRY DOOR:
- SCHLAGE INTEGRATED LEVER AND DEAD BOLT, KICK PLATE, FLOOR STOP, EXTERIOR WEATHERSTRIPPING AND THRESHOLD, HINGES, BRUSHED CHROME, DOOR VIEWERS, ASSOCIATED PARTS FOR INSTALLATION IN EXISTING OPENINGS
1. ENTRY DOOR HARDWARE:
- INTEGRAL LEVER LATCH/DEADBOLT SLBS MAX OPERATING FORCE DOOR VIEWER HINGES PER DOOR MANUFACTURER DOOR STOP AND WALL GUARD KICK PLATE PER DETAIL XX.XX. DOOR SEALS AND WEATHER STRIP, THRESHOLD (COMMERCIAL GRADE ADA COMPLIANT PER DETAILS)
- SEE PROJECT SPECIFICATION SHEETS
2. GROUP 2 SLIDER DOOR HANDLE AND LOCK:
- PUSH LEVER TYPE OPERATING HANDLE SECURITY LATCH AND LEVER, SLBS MAX OPERATING FORCE.
3. GROUP 3 STORAGE CLOSET DOOR (EXTERIOR)
- LOCKING LEVER, LATCH, KEYED PER OWNER. PROVIDE SECURITY COVER AT LATCH

WINDOW TYPES LEGEND



WINDOW NOTES:

- PROVIDE SECONDARY LOCKING DEVICE AT ALL OPERABLE FIRST FLOOR WINDOWS.
- EXISTING ALUMINUM FRAME WINDOWS TO BE REPLACED FOR EQUAL SIZE COMPOSITE FRAME WINDOW

WINDOW SCHEDULE

TYPE	SIZE		HEAD HEIGHT	Count	DETAILS - HEAD	DETAILS - JAMB	DETAILS - SILL	U-VALUE	SHGC	HARDWARE SET	REMARKS
	WIDTH	HEIGHT									
1A	3' - 0"	5' - 0"	7' - 8"	40	12/A-602	14/A-602	13/A-602	0.47	.31	SECURITY DEVICE	SECOND FLOOR WINDOWS REQUIRED FALL PREVENTION
2A	3' - 0"	3' - 0"		32	42/A-602	44/A-602	43/A-602	0.47	.31		SECOND FLOOR WINDOWS REQUIRED FALL PREVENTION
2B	2' - 6"	2' - 6"	7' - 8"	6	42/A-602	44/A-602	43/A-602	0.47	.31		
2C	3' - 0"	5' - 0"	8' - 0"	4	12/A-602	14/A-602	13/A-602	0.47	.31		
3A	2' - 6"	2' - 6"	7' - 8"	6				0.47	.31		

DOOR QUANTITY (VIF)

DOOR QUANTITY
(BY TYPE)
A1 - ENTRY - 20
B - SLIDER - 20
E - STORAGE - 20

TOTAL 60 DOOR UNITS

DOOR GENERAL NOTES

- REFER TO GENERAL NOTES ON SHEET G-101 FOR ADDITIONAL REQUIREMENTS
- REFER TO FLOOR PLANS FOR DOOR LOCATIONS.
- CONTRACTOR TO VERIFY EXACT ROUGH OPENING SIZES WITH DOOR MANUFACTURER SPECIFICATIONS PRIOR TO FABRICATION OF ROUGH OPENINGS.
- CONTRACTOR TO VERIFY ACTUAL DOOR SIZES TO FIT FINISH OPENING PRIOR TO FABRICATION OF DOOR AND FINISH OPENING.
- PROVIDE NEW DOOR PANEL IN EXISTING OPENING.
- REPLACE ALL HARDWARE INCLUDING SEAL, HINGES AND LATCH NOT LIMITED TO THE ABOVE
- REPAIR EXISTING DOOR TRIM, STILE, AND FRAME
- REPLACE EXISTING METAL THRESHOLD PER DETAILS AND SPECIFICATIONS
- REFER TO DOOR TYPES LEGEND FOR GLAZING.
- REFER TO T24 REPORT FOR GLAZING ENERGY REQUIREMENTS
- INSTALL PER MANUFACTURERS WRITTEN INSTRUCTIONS
- EXTERIOR DOOR SURFACE CLADDING SHALL BE NON-COMBUSTIBLE, OR THE STILES/RAILS SHALL NOT BE LESS THAN 1-3/8" THICK AND RAISED PANELS NOT LESS 1-1/4" THICK, OR BE OF 20-RATED.
- ALL MAIN ENTRY DOORS TO BE PROVIDED WITH A DEAD BOLT..
- ALL GLAZING IN DOORS SHALL BE IMPACT RESISTANT.
- THE BOTTOM 10" OF ALL OFFICE DOORS SHALL HAVE A SMOOTH, UNINTERRUPTED SURFACE TO ALLOW THE DOOR TO BE OPENED BY A WHEEL CHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION.
- DOOR PRESSURE: ALL DOORS, MAX. EFFORT TO OPERATE = SLBS.
- EVERY PRIMARY ENTRANCE TO DWELLING UNIT SHALL BE PROVIDED WITH A DOOR BUZZER, BELL, CHIME OR EQUIVALENT INSTALLATION MOUNTED A MAXIMUM OF 48 INCHES ABOVE THE FLOOR CONNECTED TO PERMANENT WIRING.
- ALL DOORS SHALL HAVE LEVER TYPE HARDWARE.
- (N) = NOISE DOORS. MIN STC RATING OF 29.
- ALL EXTERIOR DOORS TO BE PROVIDED OR REPLACED WITH A STANDARD ONE-YEAR GUARANTEE AND ALL SIX SIDES FACTORY PRIMED.
- ALL THRESHOLDS PROVIDED AT EXTERIOR DOORS SHALL BE 1/2" MAX HIGH PER CBC SECTION 11B-404.2.5
- PROVIDE PRIMED AND PAINTED DOORS PER OWNERS COLOR SPECIFICATION

HARDWARE GROUPS:
01 (3) HINGE, STOREROOM LOCK, FLOOR STOP/HOLDER,RAIN DRIP, GASKETING, DOOR SWEEP, THRESHOLD
02 HINGE, CONST LATCHING BOLT, DUST PROOF STRIKE, STOREROOM LOCK, COORDINATOR, MOUNTING BRACKET, FLOOR STOP, RAIN DRIP, GASKETING, MEETING STILE, THRESHOLD
03 (3) HINGE, PASSAGE SET, STOP
04 (4) HINGE, ENTRANCE LOCK, RIM CYLINDER, GASKETING, HM RD BRUSH SEAL MORTISED AUTO DOOR BOTTOM, 25" X 5" SMOOTH SS THRESHOLD
05 (4) HINGE, ENTRANCE LOCK, RIM CYLINDER, SURFACE CLOSER, GASKETING, HM DR BRUSH SEAL MORTISED AUTO DOOR BOTTOM, 25" X 5" SMOOTH SS THRESHOLD
06 (3) HINGE, PRIVACY IND "OCCUPIED", MOP PLATE, KICK PLATE, (3) SILENCER
07 (3) HINGE, PRIVACY LOCK, STOP
08 (6) HINGE, (2) ROLLER LATCH, SINGLE DUMMY TRIM
09 ALL HARDWARE BY DOOR MANUFACTURER
10 HINGE, CONST LATCHING BOLT, DUST PROOF STRIKE, STOREROOM LOCK, COORDINATOR, (2) MOUNTING BRACKET, FLOOR STOP, GASKETING, ASTRAGAL

DOOR REMARKS

- EGRESS DOOR.
- EQUIPPED W/PANIC HARDWARE.
- INCLUDES SAFETY GLAZING.
- FIRE-RATED DOOR ASSEMBLY. VISION PANELS OR LITES TO RECEIVE WIRE GLASS.
- LOUVERED DOOR.
- KICK-PLATE PROVIDED.
- ENTRY DOORS AND STORAGE DOORS TO BE KEYED PER OWNER. DIRECTION, CONTRACTOR PROVIDE ALL LOCKING MECHANISMS AND KEYSETS PROVIDE 3 KEYS PER DOOR. PROVIDE LABELED MAINTENANCE KEY SET.
- PROVIDE AND INSTALL METAL UNIT LABELS AT EACH ENTRY DOOR. MATCH DOOR HARDWARE FINISH IN A SANS-SERIF FONT - CENTURY GOTHIC OR SIMILAR
- HARDWARE FINISH:
ALL HARDWARE INCLUDING PLATES, SCREWS, STOPS, DRIP EDGES STRIKES VIEWERS, LEVERS ETC TO BE BRUSHED STAINLESS OR EQUAL. PROVIDE WITH MANUFACTURER WARRANTY FOR WEAR IN AN EXTERIOR ENVIRONMENT WHERE APPLICABLE. (EXCLUDING SLIDING DOOR HARDWARE, TO FACTORY FINISH TO MATCH FRAME COLOR)
- EXTERIOR DOOR SURFACE CLADDING SHALL BE NON-COMBUSTIBLE, NOT BE LESS THAN 1-3/8" THICK AND RAISED PANELS NOT LESS THAN NOT LESS THAN 1-1/4" THICK, OR BE OF 20-RATED.
- ALL MAIN ENTRY DOORS TO BE PROVIDED WITH A DEAD BOLT.
- ALL GLAZING IN DOORS SHALL BE IMPACT RESISTANT.
- DOOR PRESSURE: ALL DOORS, MAX. EFFORT TO OPERATE = 5 LBS.
- ALL DOORS SHALL HAVE LEVER TYPE HARDWARE.
- (N) = NOISE DOORS. MIN STC RATING OF 29.
- ALL EXTERIOR DOORS TO BE PROVIDED OR REPLACED WITH A STANDARD ONE-YEAR MINIMUM GUARANTEE AND ALL SIX SIDES FACTORY PRIMED, FIELD FINISHED TO MATCH. COLOR TO BE COORDINATED WITH OWNER AND APPROVED BY ARCHITECT.

WINDOW QUANTITY(VIF)

BUILDING TYPE QUANTITY
A - 2
B - 2
C - 4
D - 4

WINDOW QUANTITY
(BY BUILDING TYPE)

GROUND FLOOR

BLDG A
2A - 12
(12 TOTAL)

BLDG B
2A-12
(12 TOTAL)

BLDG C
2A - 36
(36 TOTAL)

BLDG D
2A - 16
2C - 16
(32 TOTAL)

SECOND FLOOR

BLDG A
1A - 14
2B-2
3A- 2
(18 TOTAL)

BLDG B
1A-14
2B-2
3A-2
(18 TOTAL)

BLDG C
1A - 36
2B-8
3A-8
(52 TOTAL)

BLDG D
1A - 40
2B - 8
3A - 8
(56 TOTAL)

256 TOTAL WINDOW UNITS

WINDOW GENERAL NOTES

- REFER TO GENERAL NOTES ON SHEET G-101 FOR ADDITIONAL REQUIREMENTS
- REFER TO FLOOR PLANS FOR WINDOW LOCATIONS.
- CONTRACTOR TO VERIFY EXACT ROUGH OPENING SIZES WITH WINDOW MANUFACTURER SPECIFICATIONS PRIOR TO FABRICATION OF ROUGH OPENINGS.
- CONTRACTOR TO VERIFY ACTUAL WINDOW SIZES TO FIT FINISH OPENING PRIOR TO FABRICATION OF WINDOW AND FINISH OPENING.
- HEAD HEIGHT MEASURED FROM FF UNLESS NOTED OTHERWISE.
- REFER TO ENERGY COMPLIANCE REPORTS FOR U-FACTOR, SHGC AND ADDITIONAL WINDOW REQUIREMENTS.
- ALL GLAZING IS DOUBLE PANE UNLESS OTHERWISE NOTED.
- PROVIDE SHOP DRAWINGS FOR ALL WINDOW UNITS
- REFER TO WINDOW TYPES LEGEND FOR GLAZING
- REFER TO WINDOW SCHEDULE AND WINDOW TYPES LEGEND FOR FURTHER INFORMATION
- STOREFRONT SECTIONS ARE 2" AND CURTAINWALL SECTIONS ARE 2-1/2". UNO. REFER TO STOREFRONT TYPES LEGEND FOR FURTHER INFORMATION.
- WINDOWS BETWEEN CONDITIONED AND UNCONDITIONED SPACES SHALL BE CAULKED, GASKETED, WEATHER-STRIPPED OR OTHERWISE SEALED.
- SAFETY GLAZING NOTATED WITH "T"

WINDOW REMARKS

- INCLUDES SAFETY GLAZING.
- EGRESS WINDOW. MUST MEET CBC REQUIREMENTS.



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AGENCY

DAISY APARTMENTS DOOR AND WINDOW RETROFIT
10540 DAISY DR
VENTURA, CA 93004

DOOR AND WINDOW SCHEDULES

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PROJECT MANAGER

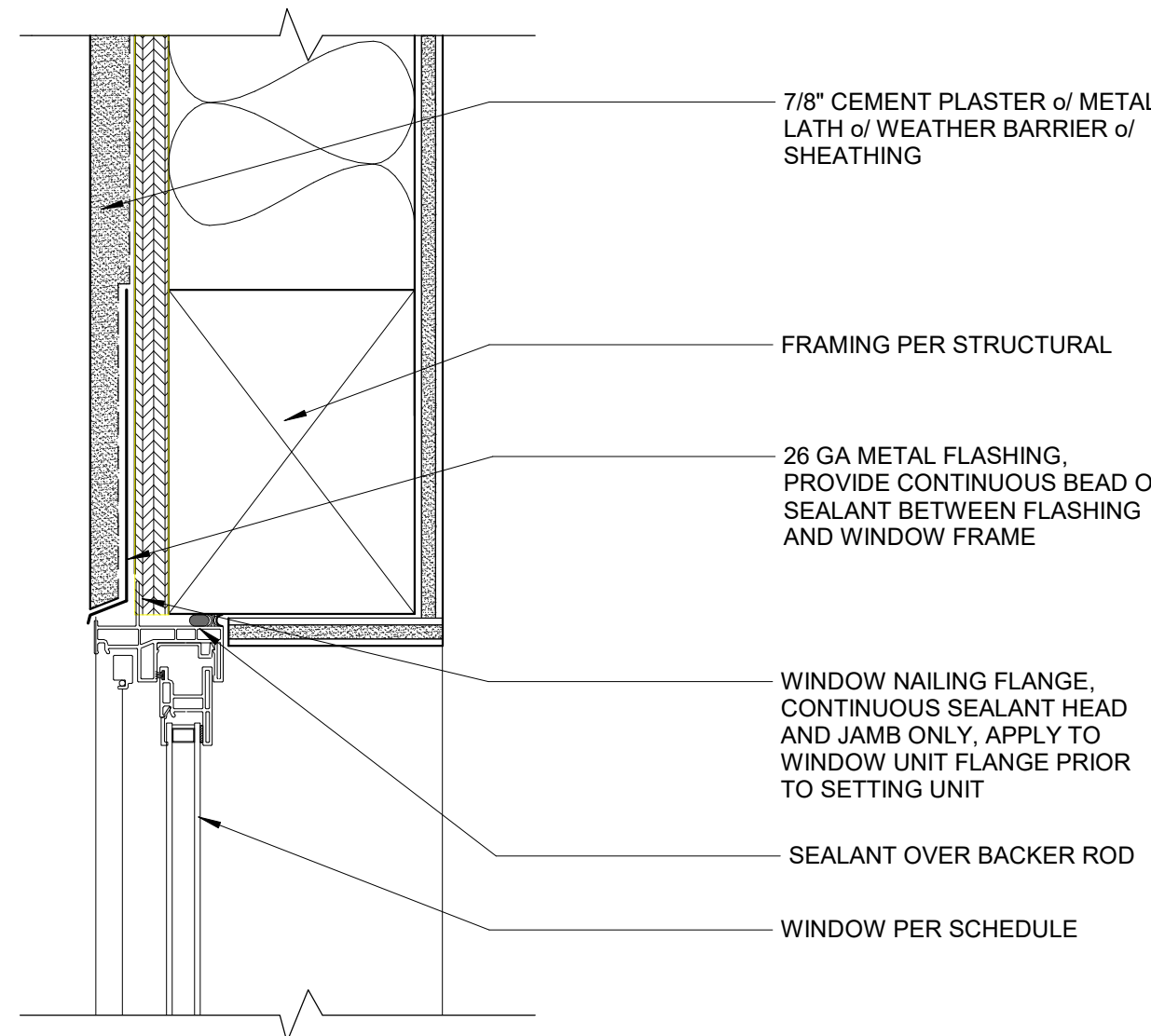
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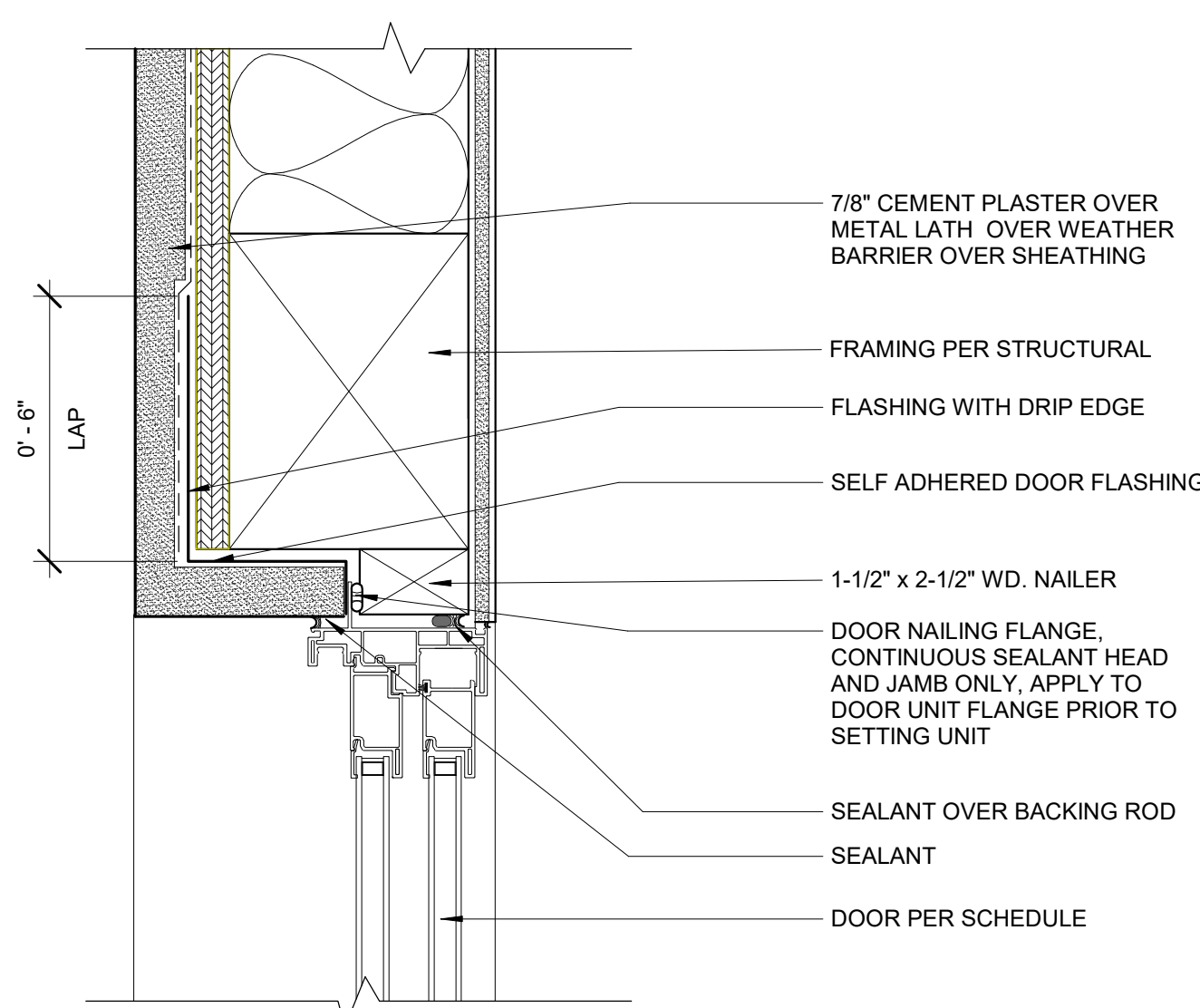
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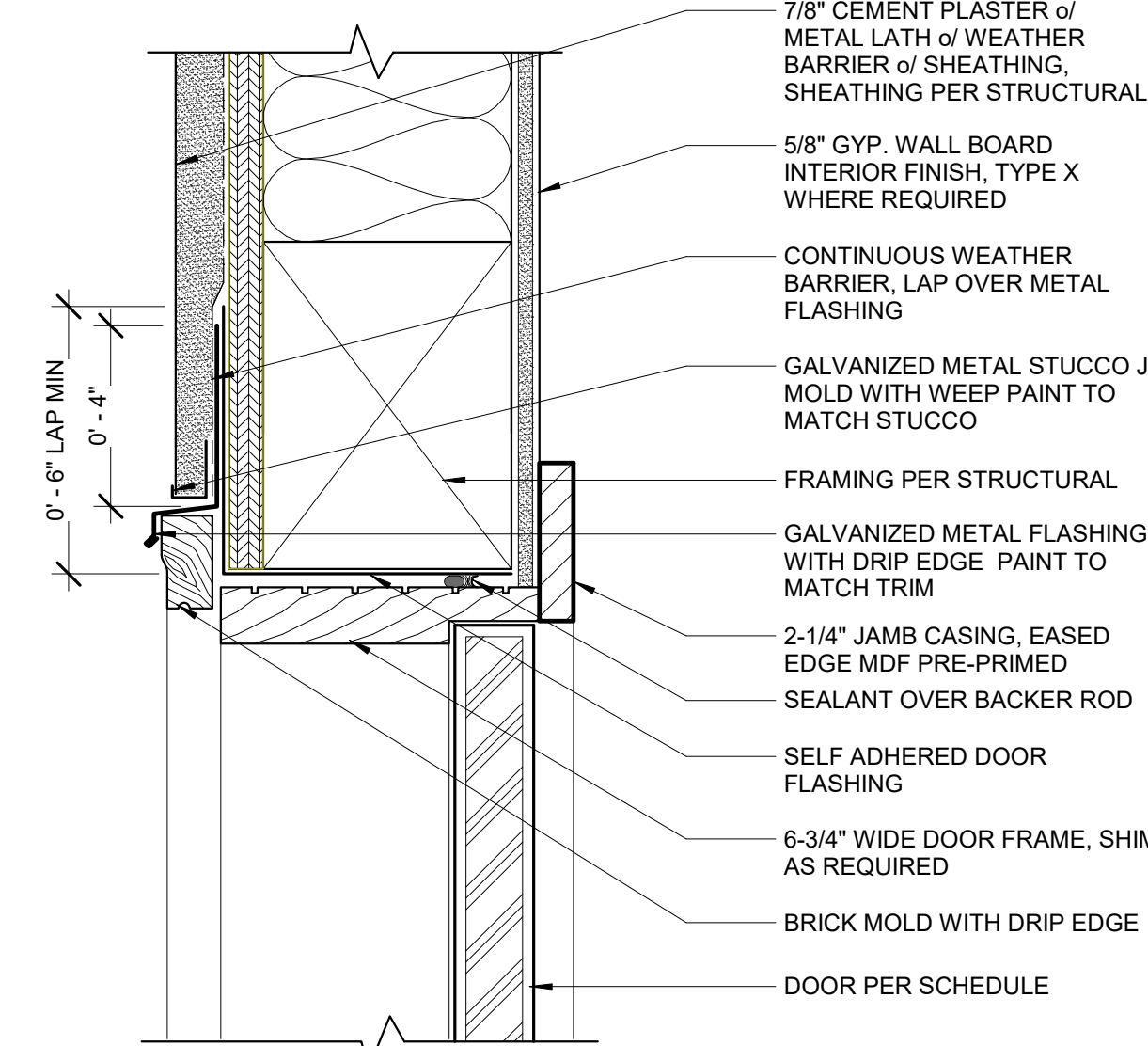
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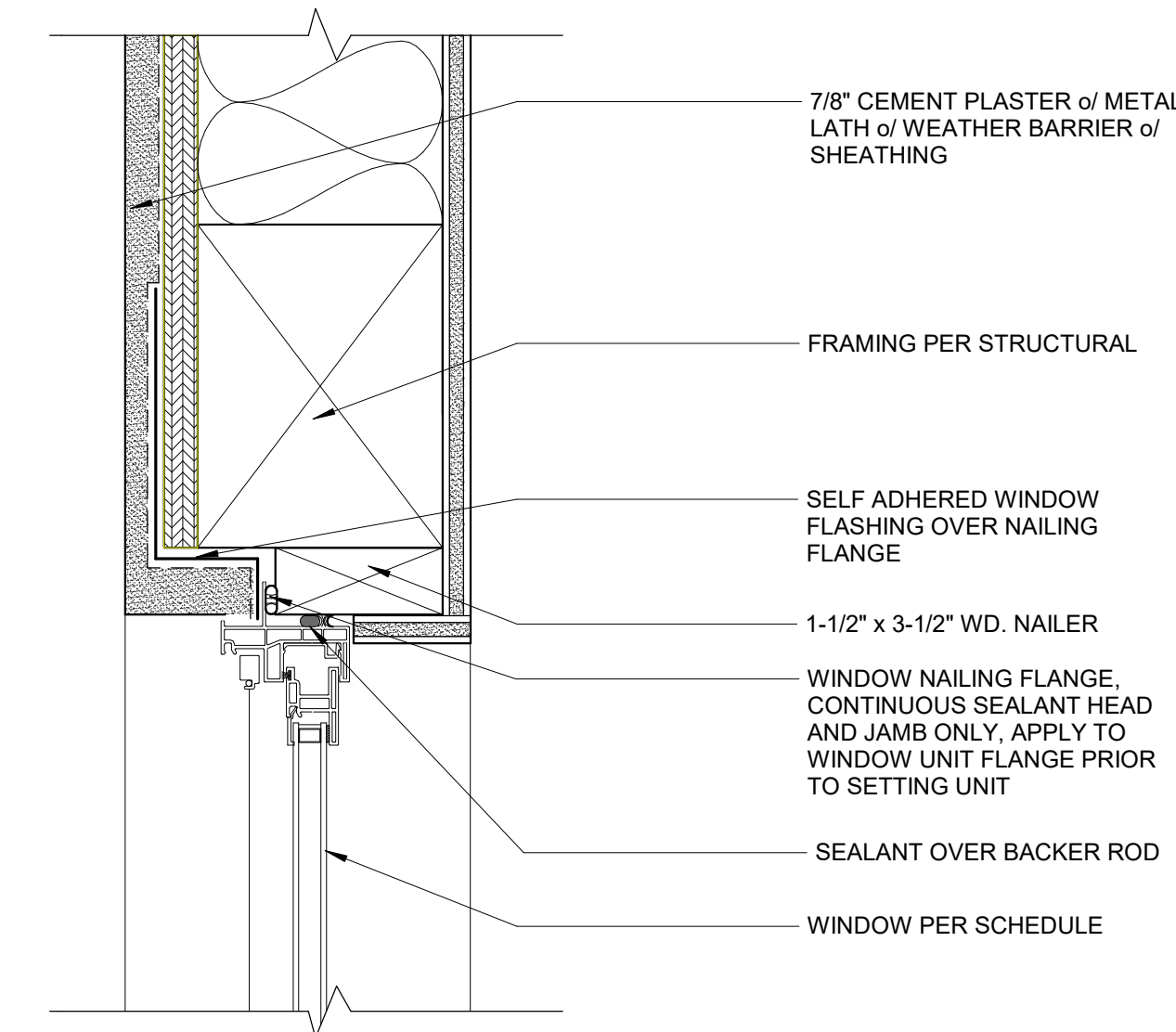
13 WINDOW HEAD AT STUCCO
3" = 1'-0"



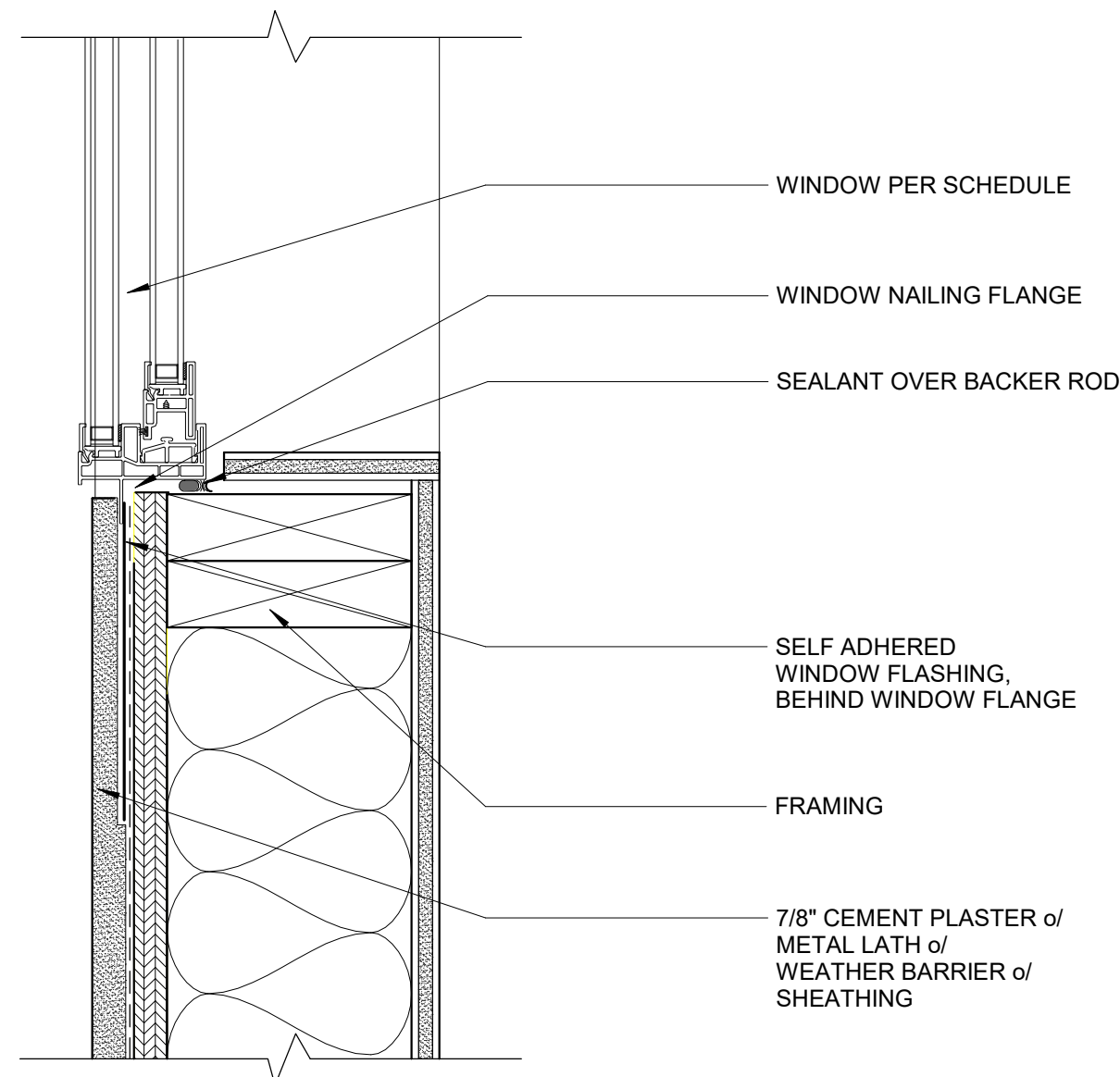
9 SLIDER HEAD AT STUCCO
3" = 1'-0"



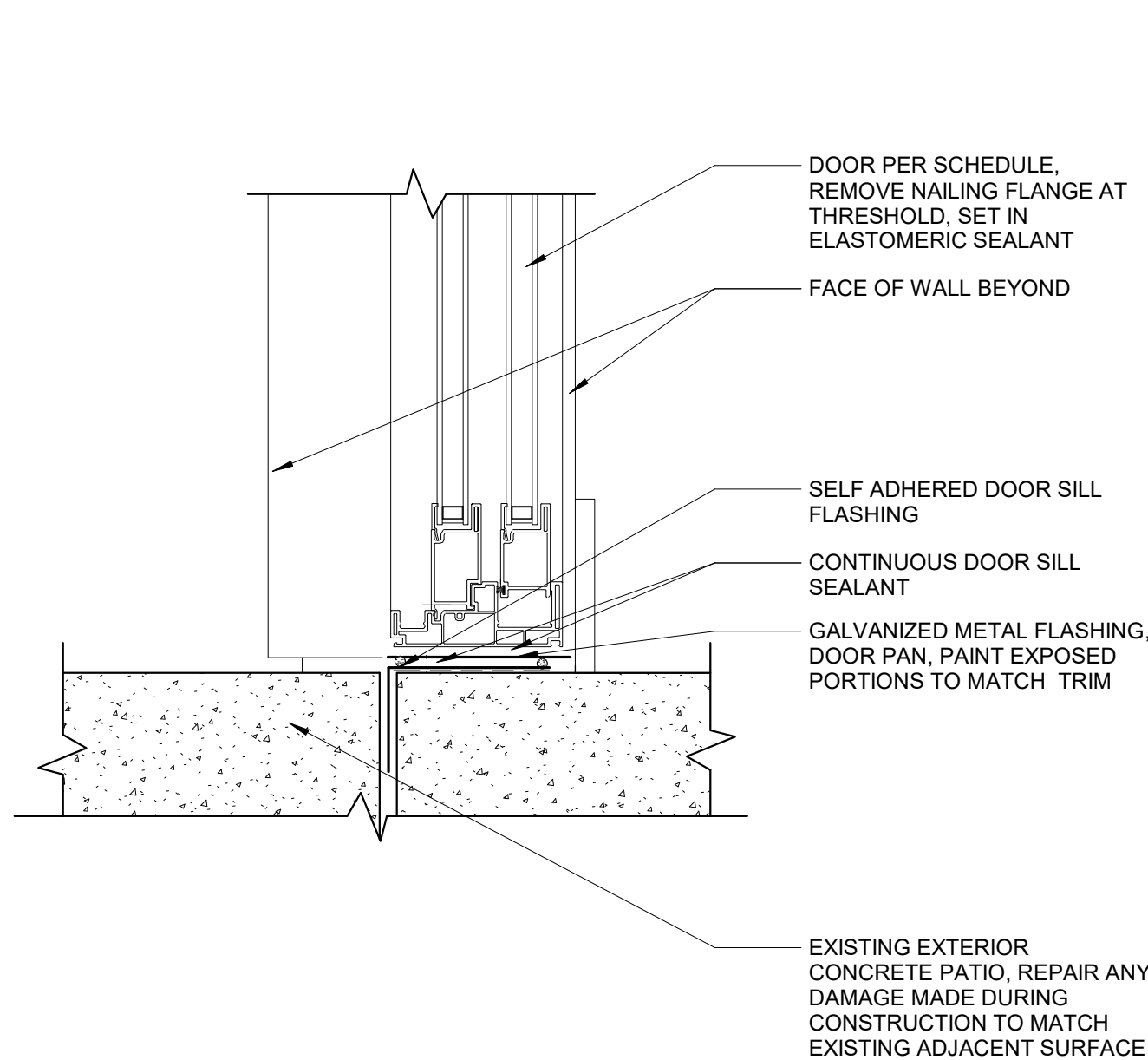
6 DOOR HEAD AT STUCCO WALL
3" = 1'-0"



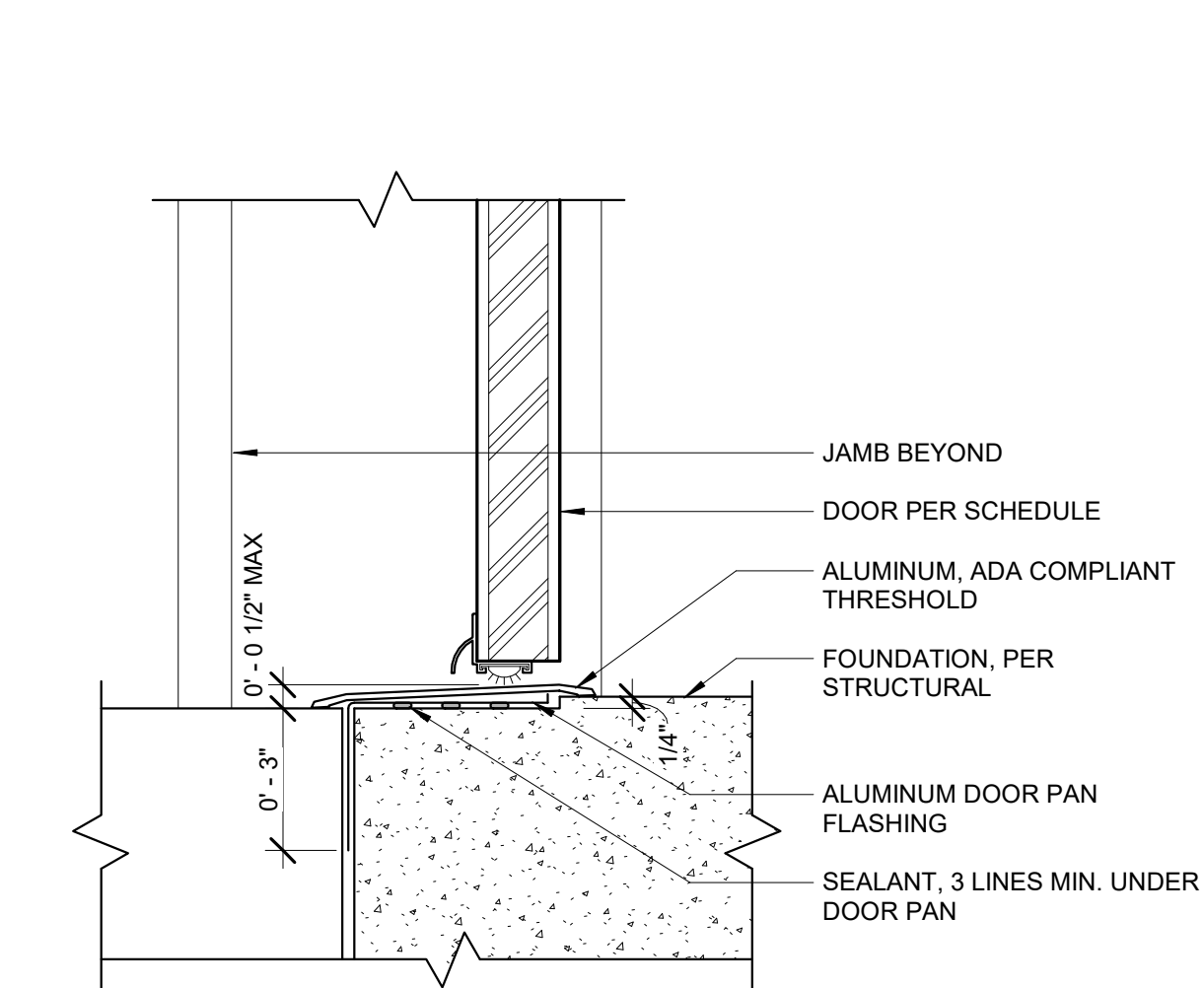
3 RECESSED WINDOW HEAD AT STUCCO
3" = 1'-0"



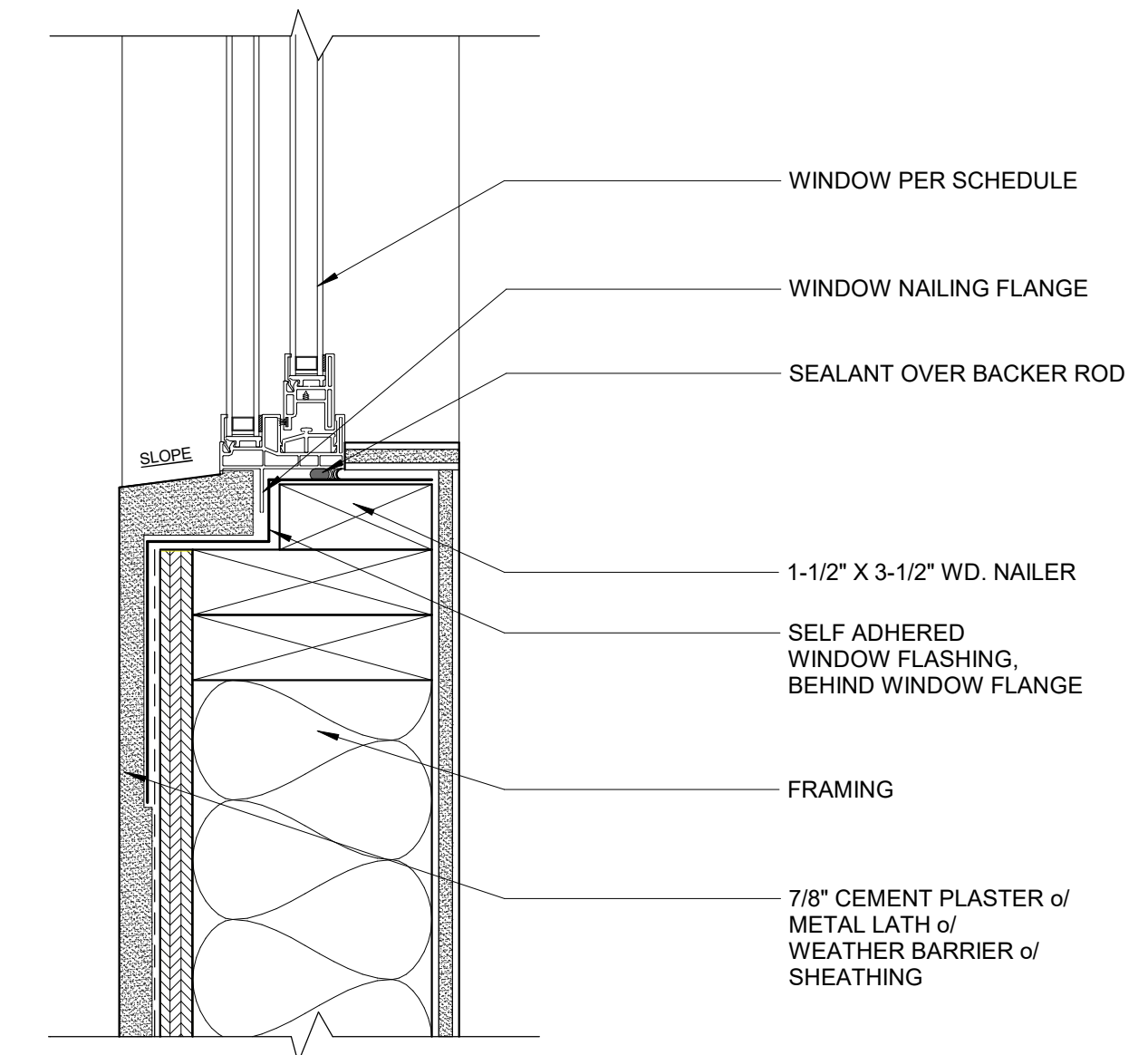
12 WINDOW SILL AT STUCCO
3" = 1'-0"



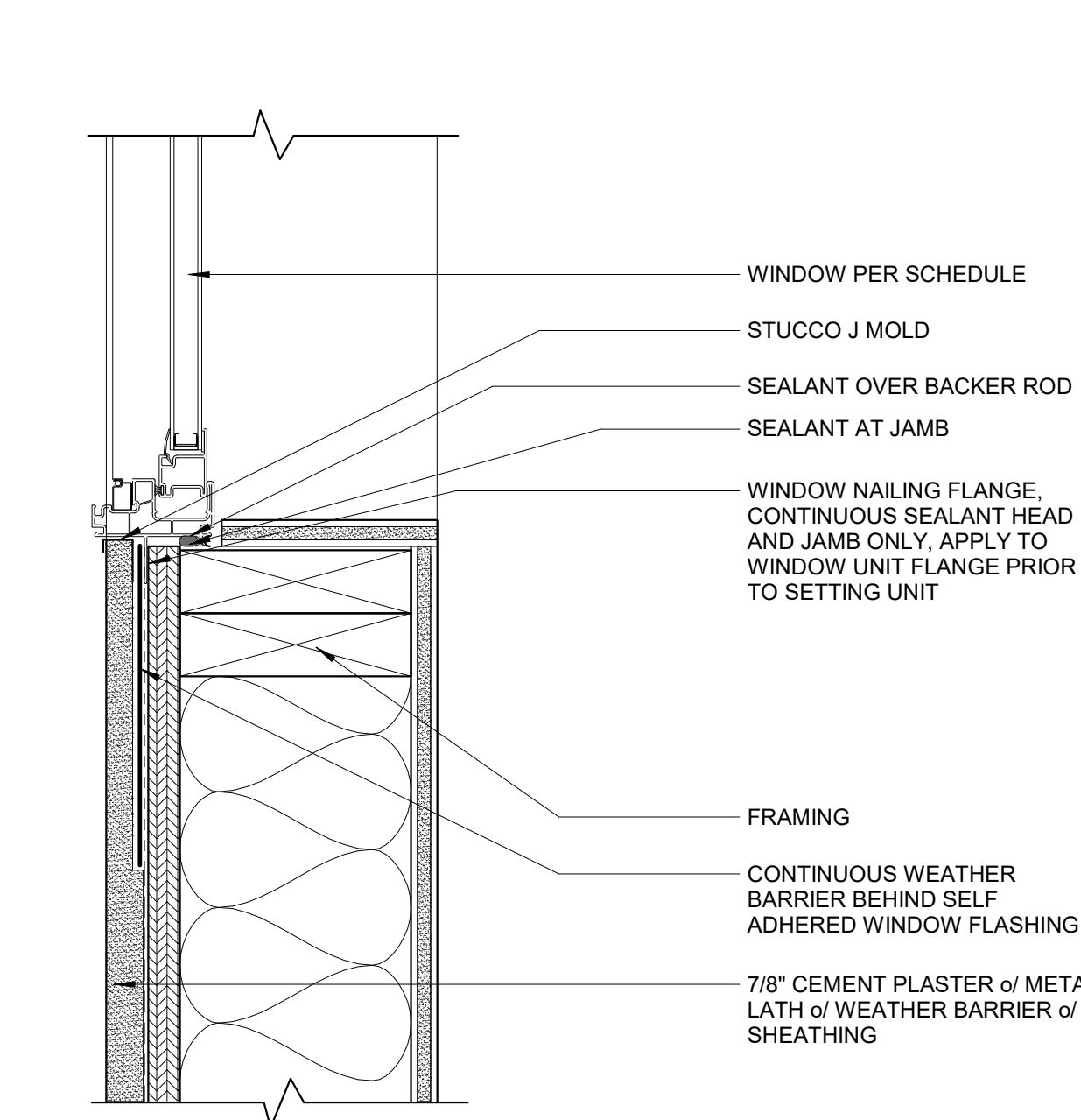
8 SLIDER THRESHOLD AT STUCCO
3" = 1'-0"



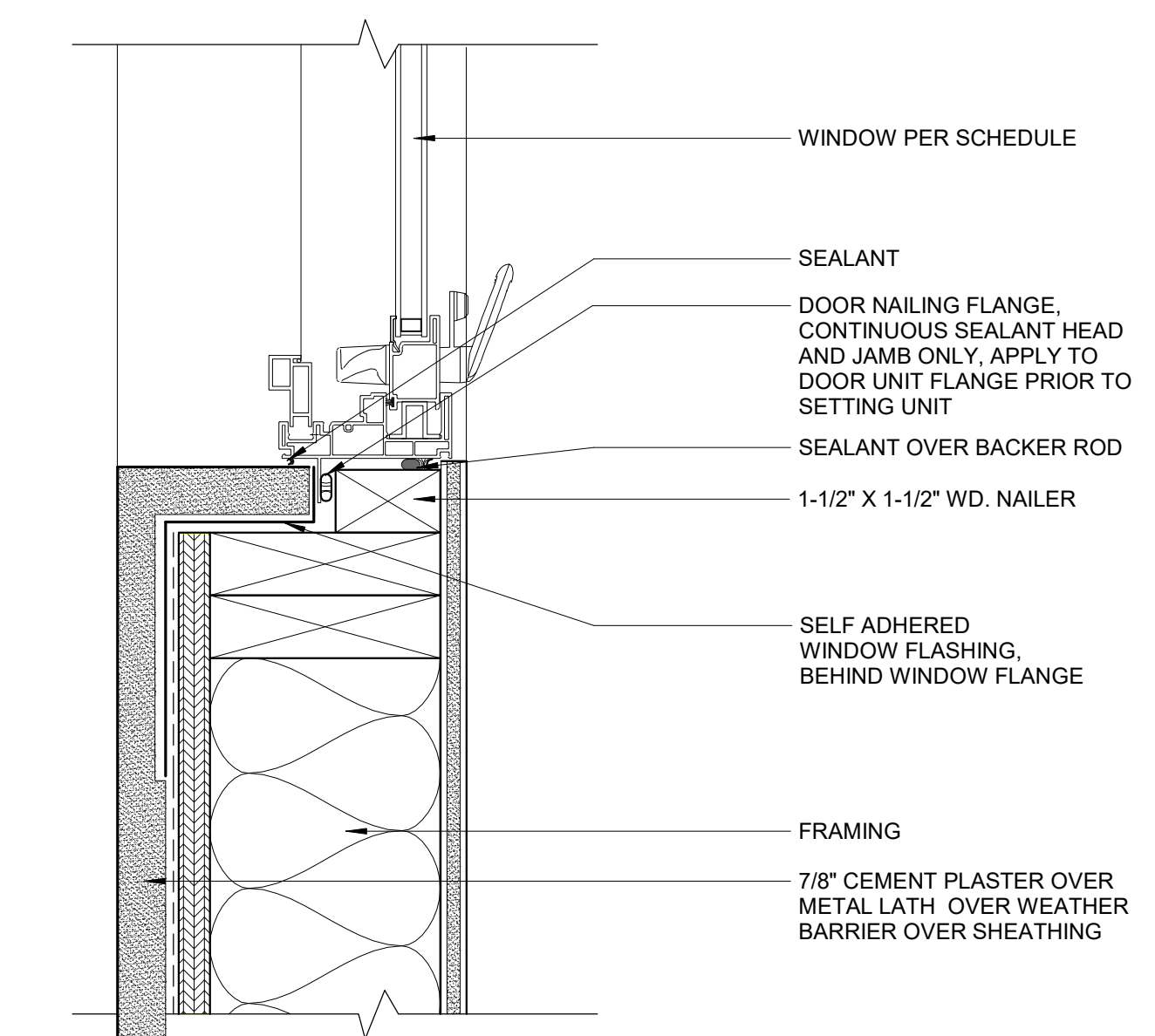
5 TYPICAL DOOR THRESHOLD AT SLAB
3" = 1'-0"



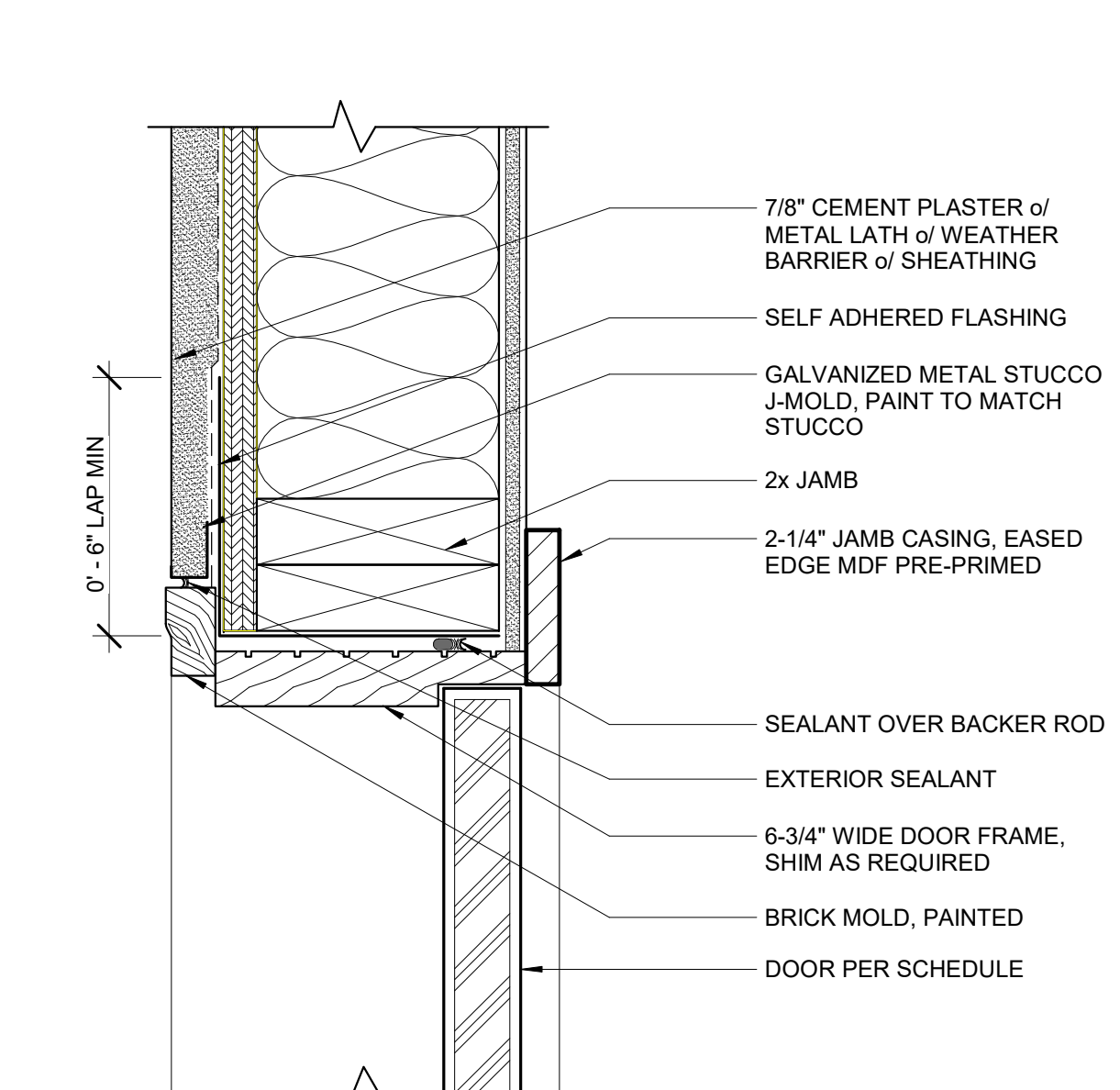
2 RECESSED WINDOW SILL AT STUCCO
3" = 1'-0"



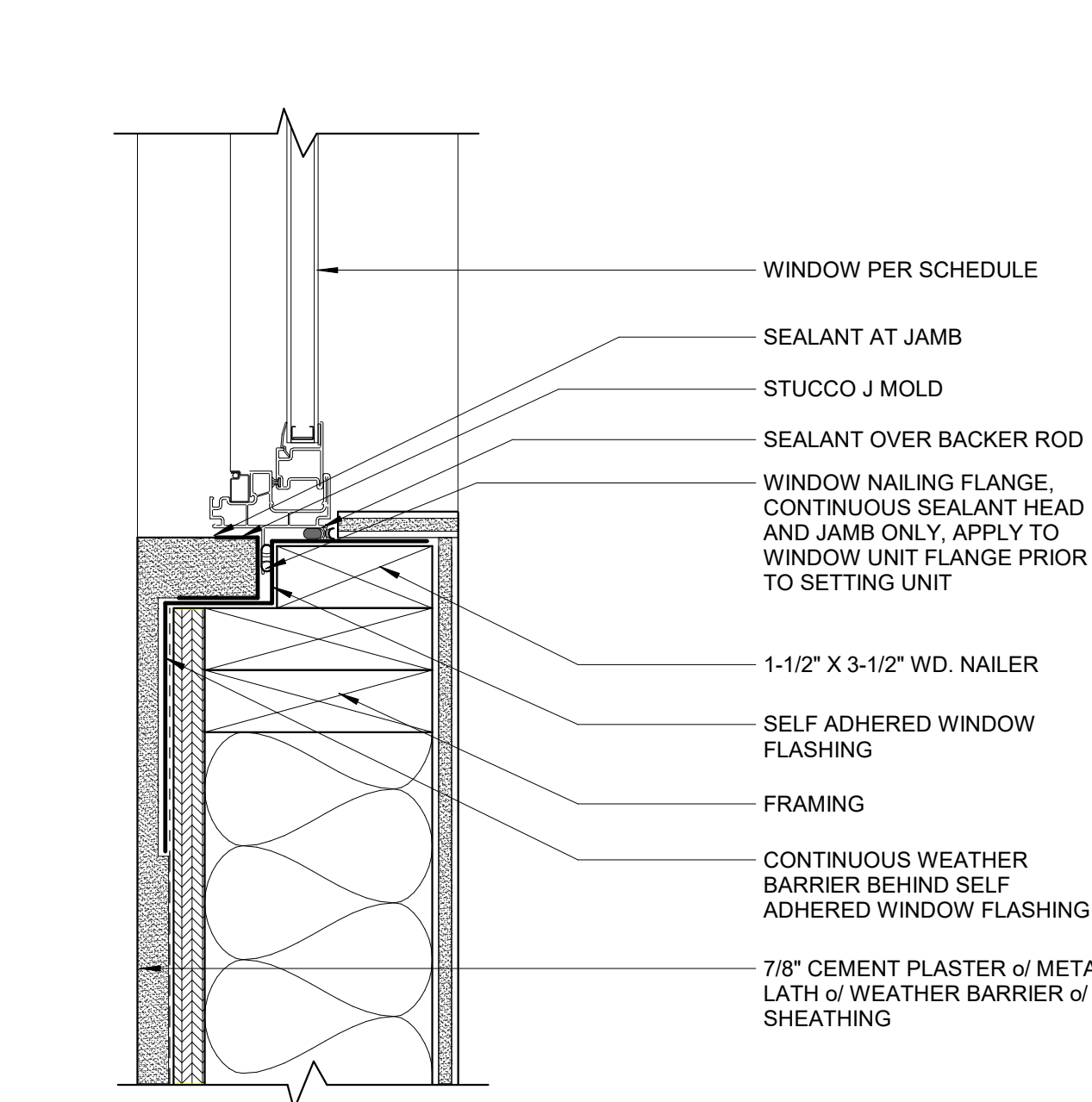
11 WINDOW JAMB AT STUCCO
3" = 1'-0"



7 SLIDER JAMB AT STUCCO
3" = 1'-0"



4 DOOR JAMB AT (6x) STUCCO WALL
3" = 1'-0"



1 RECESSED WINDOW JAMB AT STUCCO
3" = 1'-0"

DETAILS SHOWN TO REPRESENT WATER PROOFING CONDITIONS AND EXISTING CONDITIONS FOR WINDOW FRAMES, **CONTRACTOR TO BID RETROFIT WINDOW UNITS.**

REPAIR EXISTING CONDITIONS TO MAINTAIN WATER PROOF WINDOW AND DOOR CONDITIONS INTEGRATED TO EXISTING BUILDING WEATHER RESISTIVE BARRIER, AND EXISTING STUCCO PROFILE OF RECESSED WINDOW CONDITIONS.

DAISY APARTMENTS DOOR AND
WINDOW RETROFIT
10540 DAISY DR
VENTURA, CA 93004
DOOR + WINDOW DETAILS

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TYPE C



TYPE C



TYPE C



TYPE C



TYPE C



TYPE D



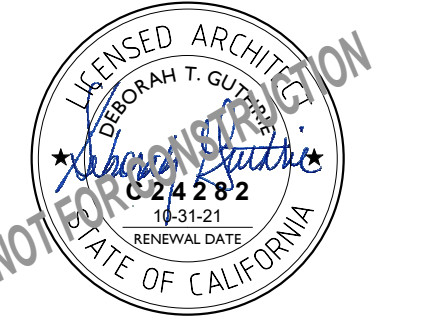
TYPE C



TYPE C



TYPE B



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**DAISY APARTMENTS DOOR AND
WINDOW RETROFIT**
10540 DAISY DR
VENTURA, CA 93004

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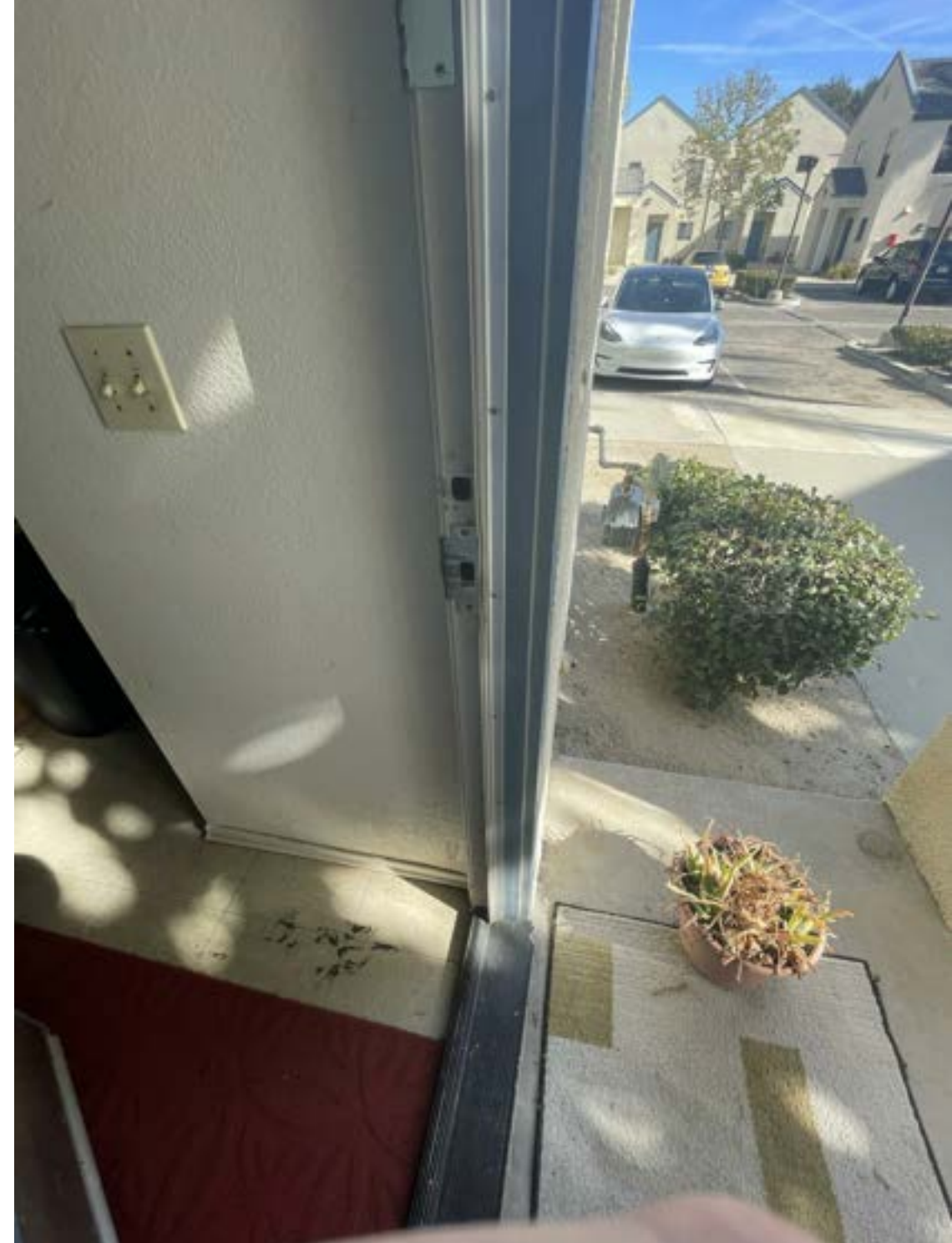
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**DAISY APARTMENTS DOOR AND
WINDOW RETROFIT**
10540 DAISY DR
VENTURA, CA 93004

EXISTING DOORS BUILDING A-D

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DAISY APARTMENTS DOOR AND
WINDOW RETROFIT
10540 DAISY DR
VENTURA, CA 93004
EXISTING WINDOWS BUILDINGS
A-D

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