DAISY APARTMENTS WINDOW RETROFIT

10540 DAISY DR, VENTURA, CA 93004



AGENCY

ARREVIATIONS

	BBREVIATIONS				
A/C	AIR CONDITIONING	FOIC	FURNISHED BY OWNER INSTALLED BY	PV	PHOTO VOLTAIC
ABV	ABOVE	FOM	CONTRACTOR	PVC	POLYVINYL CHLORIDE
	ACOUSTICAL	FOM FOS	FACE OF MASONRY FACE OF STUD	PVMT	PAVEMENT
ACT ADA	ACOUSTICAL CEILING TILE AMERICANS WITH DISABILITIES ACT	FRP	FIBERGLASS REINFORCED PANELS	QTY R	QUANTITY RADIUS, RISER
AFCI	ARC FAULT CIRCUIT INTERRUPTER	FT	FOOT OR FEET	RB	RUBBER BASE
\FF	ABOVE FINISH FLOOR	FTG	FOOTING	RCP	REFLECTED CEILING PLAN
\L	ALUMINUM	GA	GAUGE, GAGE	RD	ROOF DRAIN
 \LT	ALTERNATE	GALV	GALVANIZED	REF	REFRIGERATOR
ARCH	ARCHITECT(URAL)	GB	GRAB BAR	REINF	REINFORCED
D	BOARD	GC	GENERAL CONTRACTOR	REQD	REQUIRED
BDRM	BEDROOM	GFCI	GROUND FAULT CIRCUIT INTERRUPTER	RH	RIGHT HAND
BET	BETWEEN	GWB	GYPSUM BOARD	RM	ROOM
BIT	BITUMINOUS	GYP	GYPSUM	RO	ROUGH OPENING
LDG	BUILDNG	HB	HOSE BIBB	RTU	ROOF TOP UNIT (MECH)
BLKG	BLOCKING	HC	HOLLOW CORE	S	SOUTH
LW	BELOW	HDWD	HARDWOOD	SAFB	SOUND ATTENUATION FIBER BATT
SM 	BEAM	HDWR HGT	HARDWARE HEIGHT	SAWP	SELF ADHEREING WATERPROOFII
BOT	BOTTOM	HM	HOLLOW METAL	SC	SCUPPER/SOLID CORE
UR	BUILT UP ROOF	HORIZ	HORIZONTAL	SCHED	
CB CDC	CATCH BASIN	HVAC	HEATING, VENTILATION, A/C	SEAL	SEALANT
BC	CALIFORNIA BUILDING CODE	ID	INSIDE DIAMETER	SECT SF	SECTION SOLVANDE FOOT
EM FM	CEMENT CUBIC FEET PER MINUTE	IIC	IMPACT INSULATION CLASS	SF SHT	SQUARE FOOT SHEET
,FIVI SIP	CAST IN PLACE	IN	INCH	SHTHG	
			INCANDESCENT	SIM	
;J ;L	CONTROL JOINT CENTER LINE	INSUL	INSULATION, INSULATED	SIIVI SM	SIMILAR SHEET METAL
LG	CEILING	INT	INTERIOR	SPEC	SPECIFICATION
LO	CLOSET	JC	JANITORS CLOSET	SQ	SQURE
LR	CLEAR	JT	JOINT	SS	SOLID SURFACE
MU	CONCRETE MASONRY UNIT	LAM	LAMINATE	SSTL	STAINLESS STEEL
0	CLEAN OUT	LAV	LAVATORY	STC	SOUND TRANSMISSION CLASS
OL	COLUMN	LBS	POUNDS	STD	STANDARD
ONC	CONCRETE	LEED	LEADERSHIP IN ENERGY AND	STL	STEEL
ONST	CONSTRUCTION		ENVIRONMENTAL DESIGN	STOR	STORAGE
ONT	CONTINUOUS	LF	LINEAR FEET	STRUCT	STRUCTURAL
ONTR	CONTRACTOR	LIN	LINEN CLOSET	SUSP	SUPSPENDED
PT	CARPET	LINO	LINOLEUM	SV	SHEET VINYL
T	CERAMIC TILE	LT(G)	LIGHT(ING)	SYM	SYMMMETRICAL
TR	CENTER	LVL	LAMINATED VENEER LUMBER	Т	TREAD
BL	DOUBLE	LVT	LUXURY VINYL TILE LIGHTWEIGHT	T&G	TONGUE & GROOVE
)F	DRINKING FOUNTAIN	LW MAX	MAXIMUM	TEL	TELEPHONE
)IA	DIAMETER, DIAPHRAGM	MDF	MEDIUM DENSITY FIBERBOARD	TEMP	TEMPERED
DIM	DIMENSION	MECH	MECHANICAL MECHANICAL	TER	TERRAZZO
N	DOWN	MEMB	MEMBRANE	THK	THICK
OR OS	DOOR DOWN SPOUT	MEP	MECHANICAL, ELECTRICAL, PLUMBING	THR	THRESHOLD TRUSS JOIST I-JOIST
)TL	DETAIL	MFR	MANUFACTURER	TJI TO	TOP OF
)W	DISHWASHER	MIN	MINIMUM	TOS	TOP OF SLAB
WG	DRAWING	MISC	MISCELLANEOUS	TOW	TOP OF WALL
Ξ)	EXISTING	MO	MASONRY OPENING	TRANS	TRANSFORMER
- , :	EAST	MTD	MOUNTED	TV	TELEVISION
A	EACH	MTL	METAL	TYP	TYPICAL
J	EXPANSION JOINT	N	NORTH	UFAS	UNIFORM FEDERAL ACCESSIBILITY
L,	ELEVATION	NIC	NOT IN CONTRACT		STANDARDS
LEV		NO	NUMBER	UG	UNDERGROUND
LEC	ELECTRIC	NOM	NOMINAL	UNFIN	UNFINISHED
NCL	ENCLOSURE	NTS	NOT TO SCALE	UNO	ULNESS NOTED OTHERWISE
Q	EQUAL	O.P.	OVERFLOW PIPE	UV	UTRAVIOLET
QUIP	EQUIPMENT	OC	ON CENTER	VCT	VINYL COMPOSITION TILE
XH	EXHAUST	OD	OVERFLOW DRAIN	VERT	VERTICAL
XP	EXPANSION	OFF	OFFICE OPPOSITE HAND	VIF	VERIFY IN FIELD
XT	EXTERIOR	OH OPG	OPENING	VTR	VENT TERMINATION PIPE
ACP	FIRE ALARM CONTROL PANEL	OPP	OPPOSITE	VWC	VINYL WALL COVERING
AU	FORCED AIR UNIT	(P)	PROPOSED	W	WEST
AWP D	FLUID APPLIED WATERPROOFING FLOOR DRAIN	` '	PERIMETER	W/ W/D	WITH WASHER DRYER
DC	FIRE DEPARTMENT CONNECTION	PERP	PERPENDICULAR	W/O	WASHER DRYER WITHOUT
E	FIRE EXTINGUISHER	PG	PAINT GRADE	WC	WATERCLOSET
EC	FIRE EXTINGUISHER CABINET	PL	PLATE, PROPERTY LINE	WD	WOOD
F	FINISHED FLOOR ELEVATION	PLAM	PLASTIC LAMINATE	WDW	WINDOW
' G	FINISHED GRADE	PLBG	PLUMBING	WH	WATER HEATER
H	FIRE HYDRANT	PLYWD	PLYWOOD	WI	WROUGHT IRON
HC	FIRE HOSE CABINET	PNL	PANEL	WIN	WINDOW
IN	FINISH	PP	POWER POLE	WP	WATERPROOF(ING)
IXT	FIXTURE	PR	PAIR	WR	WEATHER RESISTIVE
LR	FLOOR	PRTN	PARTITION	WRB	WATER RESISTIVE BARRIER
LUOR	FLOURESCENT	PSF	POUNDS PER SQUARE FOOT	WSCT	WAINSCOT
ND	FOUNDATION	PSI	POUNDS PER SQUARE INCH	WT	WEIGHT
0	FACE OF	PSL	PARALLEL STRAND LUMBER	WWF	WELDED WIRE FABRIC
OC	FACE OF CONCRETE	PT	PRESSURE TREATED	YD	YARD
OC		PTD	PAINTED		

PROJECT GENERAL NOTES

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: 2022CALIFORNIA BUILDING CODE AND ITS APPENDICES AND STANDARDS. 2022CALIFORNIA 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
- 2022 CALIFORNIA BUILDING ENERGY EFFICIENCY STANDARDS.
- 2022CALIFORNIA GREEN BUILDING STANDARDS CODE AND ITS APPENDICIES AND STANDARDS. • CURRENT CITY OFSAN BUENAVENTURA 2022 MUNICIPAL CODE.
- 1. ALL WORK DESCRIBED IN THE DRAWINGS SHALL BE VERIFIED FOR DIMENSION, GRADE, EXTENT AND COMPATIBILITY WITH EXISTING SITE CONDITIONS. ANY DISCREPANCIES AND UNEXPECTED CONDITIONS THAT AFFECT OR CHANGE THE WORK DESCRIBED IN THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION IMMEDIATELY. DO NOT PROCEED WITH THE WORK IN THE AREA OF DISCREPANCIES UNTIL ALL SUCH DISCREPANCIES ARE RESOLVED. IF THE CONTRACTOR CHOOSES TO DO SO THEY SHALL BE PROCEDING AT THIER OWN RISK.
- 2. DIMENSIONS SHOWN SHALL TAKE PRECEDENCE OVER DRAWING SCALE OR PROPORTION. LARGER SCALE DRAWINGS SHALL TAKE PRECEDENCE OVER SMALLER SCALE DRAWINGS. ALL DIMENSIONS ARE ROUGH AND TO FACE OF FRAMING UNLESS NOTED OTHERWISE 3. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.
- 4. IN THE EVENT OF THE UNFORESEEN ENCOUNTER OF MATERIALS SUSPECTED TO BE OF AN ARCHAEOLOGICAL OR PALEONTOLOGICAL NATURE, ALL GRADING AND EXCAVATION SHALL CEASE IN THE IMMEDIATE AREA AND THE CONTRACTOR SHALL NOTIFY THE OWNER. THE FIND SHALL BE LEFT UNTOUCHED UNTIL AN EVALUATION BY A QUALIFIED
- ARCHAEOLOGIST OR PALEONTOLOGIST IS MADE. 5. CONTRACTOR IS TO BE RESPONSIBLE FOR BEING FAMILIAR WITH THESE DOCUMENTS INCLUDING ALL CONTRACT REQUIREMENTS.
- 6. CONTRACTOR TO REVIEW CALIFORNIA GREEN CODE REQUIREMENTS FOR CONTRACTOR REQUIREMENTS. 7. TEMPORARY FACILITIES: CONTRACTOR SHALL PAY FOR, PROVIDE AND MAINTAIN TEMPORARY FACILITIES FOR PROJECT PROTECTION AND CONSTRUCTION, AND AS REQUIRED BY LOCAL REGULATION AND THESE DOCUMENTS. SUCH FACILITIES INCLUDE, BUT ARE NOT LIMITED TO: TOILETS, LIGHTS, HEATERS, POWER, GAS, FANS, WATER, PHONES, FENCES, SIGNS, SHEDS, ETC. REMOVE FROM SITE AND RESTORATION OF ANY WEAR OR DAMAGE TO EXISTING IMPROVMENTS UPON COMPLETION OF WORK. OBTAIN BUILDING OFFICIAL OR FIRE MARTIAL APPROVAL PRIOR TO USE OF ANY
- TEMPORARY HEATING DEVICE. 8. CONTRACTOR SHALL PROVIDE FOR PROTECTION AND SAFETY: RESPONSIBLE FOR ALL ITEMS (SIGNS, LIGHTS, FENCES, BRACING, ANCHOR-AGE, FIRE-EXTINGUISHERS, ETC.) NECESSARY FOR THE PROTECTION OF THE PUBLIC, WORKERS, MATERIALS, CONSTRUCTION AND PROPERTY PER LOCAL, STATE AND FEDERAL REQUIREMENTS (INCLUDING EARTHQUAKES, FIRES, SPILLS, ACCIDENTS, EROSION, MUD, DUST, ETC.).

PROJECT DIRECTORY

HOUSING AUTHORITY OF THE CITY OF SAN BUENAVENTURA ADDRESS: 995 RIVERSIDE ST

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VENTURA, CA 93001

VENTURA, CA 93001

EMAIL: AJGARL@RRMDESIGN.COM

APPLICANT

PROJECT INFORMATION

PROJECT SCOPE: 1. REPLACE EXISTING WINDOWS THROUGHOUT THE PROJECT WITH ENERGY SAVING WINDOWS, INCLUDING ASSOCIATED DRYWALL, STUCCO AND WATERPROOFING TIE 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

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

SITE INFORMATION:

STREET ADDRESS:	10540 DAISY [
	VENTURA, CA 930
APN:	128-0-100-0
ZONING:	RESIDENTIAL PLANNED DEVELOPME
LOT SIZE:	2.0 /
LAND USE:	RESIDENTIAL - HIC
EXISTING USE:	RESIDENTI
PROPOSED USE:	NO CHANG

LOT COVERAGE

FLOOR AREA RATIO

BUILDING: EXISTING TO REMAIN HARDSACPE/PAVING: NO CHANGE LANDSCAPE:

SETBACKS

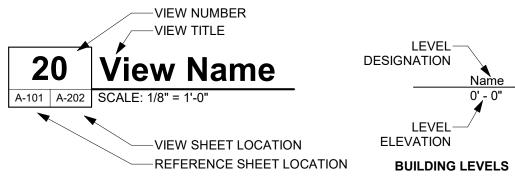
PROPOSED FRONT: EXISTING TO REMAIN REAR: NO CHANGE SIDES:

BUILDING INFORMATION:

NUMBER OF STORIES: OCCUPANCY GROUP: CONSTRUCTION TYPE: SPRINKLERED: MAX. HEIGHT ALLOWED:(PER 2019 CBC TABLE 504.3) EXISTING TO REMAIN MAX. HEIGHT ALLOWED: (PER CITY OF...) EXISTING TO REMAIN MAX. HEIGHT PROPOSED: NO CHANGE **ROOF RATING:** CLASS A HIGH FIRE ZONE:

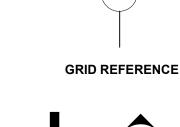
UTILITIES

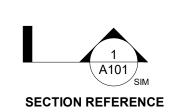
WATER AND SEWER SERVICE **ELECTRICAL SERVICE GAS SERVICE TELEPHONE SERVICE GARBAGE SERVICE** CABLE SERVICE

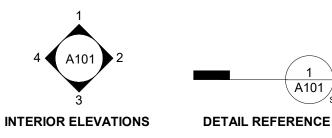




BUILDING ELEVATION











WALL TAG

DOOR W/CLOSER

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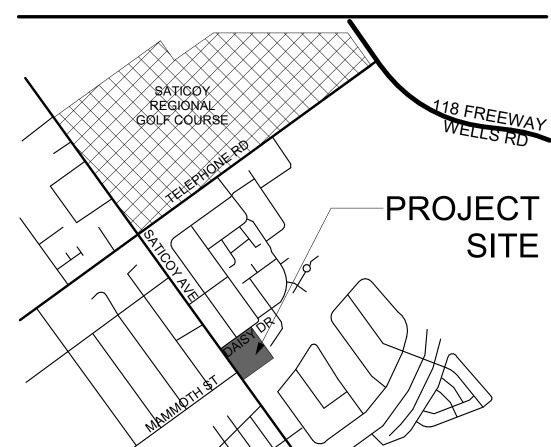
PARKING CALCULATIONS

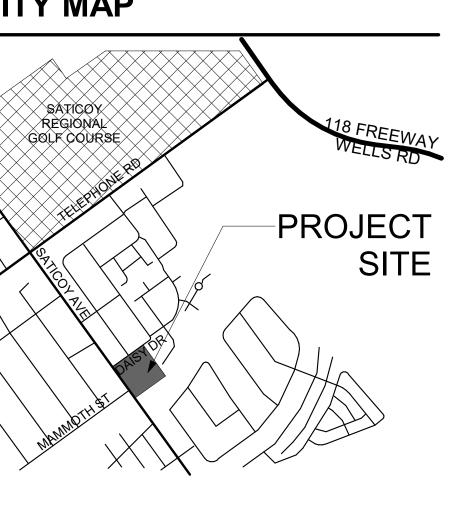
A-607 EXISTING WINDOWS BUILDINGS A-D

EXISTING TO REMAIN - NO CHANGE

Grand total: 25

VICINITY MAP





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GENERAL NOTES

- 1. ALL HORIZONTAL CEILING DRYWALL APPLIED TO TRUSSES SHALL BE 5/8" GYPSUM BOARD.
- ALL EXTERIOR WINDOWS PER OWNER SPECS. REFER TO PLANS FOR SIZE AND EXTERIOR ELEVATIONS FOR ALL GRIDS & COLORS. 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. 2510.6) 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'-0" FOR EVERY ELBOW IN EXCESS OF TWO. MIN. DIA. 4", SMOOTH, METAL DUCT. (CMC
- SEC. 504.3) ALL MANUFACTURED EQUIPMENT SHALL BE INSTALLED AS PER MANUFACTURER'S SPECIFICATION AND DIMENSIONS VERIFIED WITH
- INSTALLATION REQUIREMENTS. S. SHOWERS AND TUB-SHOWER COMBINATIONS: CONTROL VALVES MUST BE PRESSURE BALANCED OR THERMOSTATIC MIXING VALVES. (CPC SEC. 418.0.) PROVIDE TEMPERED GLAZING IN DOORS AND ENCLOSURES FOR SHOWERS. BATHTUBS, SAUNAS, STEAM ROOMS, HOT TUBS & SIMILAR USES WHERE THE BOTTOM EXPOSED EDGE IS LESS THAN 60-INCHES ABOVE A STANDING
- SURFACE. (2022 CBC 2406.4.5) HEATING AND AIR-CONDITIONING SYSTEM DESIGN SHALL CONFORM TO
- CALGREEN SEC. 4.507, ENVIRONMENTAL COMFORT. 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

- THE ACCESSIBLE ROUTES OF TRAVEL AS INDICATED ON PLAN IS A BARRIER FREE ACESS ROUTE WITHOUT ANY ABRUPT LEVEL CHANGES, SURFACE IS STABLE AND SLIP RESISTANT. THIS PATH SHALL SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MIN AND PROTRUDING OBJECTS GREATER THAN A 4" PROJECTION FROM WALL AND ABOVE 27" AND LESS THAN 80" **2022 CBC 11B-402**
- ACCESSIBLE ROUTES SHALL BE PROVIDED WHERE REQUIRED BY 2022 CBC SECTION 11B-206.2. EXISTING BUILDINGS AND FACILITIES SHALLY COMPLY WITH **2022 CBC 11B-202**.
- SITE ARRIVAL POINTS. AT LEAST ONE ACCESSIBLE ROUTE SHALL BE PROVIDED WITHIN THE SITE FROM ACCESSIBLE PARKING SPACES AND ACCESSIBLE PASSENGER DROP-OFF AND LOADING ZONES; PUBLIC STREETS AND SIDEWALKS: AND PUBLIC TRANSPORTATION STOPS TO THE ACCESSIBLE BUILDING OR FACILITY ENTRANCE THEY SERVE. WHERE MORE THAN ONE ROUTE IS PRIVIDED, ALL ROUTES MUST BE ACCESSIBLE (2022 CBC 11B-206.2.1)
- WITHIN A SITE. AT LEAST ONE ACCESSIBLE AROUTE SHALL CONNECT ACCESSIBLE BUIDLINGS, ACCESSIBLE FACILITIES, ACCESSIBLE ELEMENTS, AND ACCESSIBLE SPACES THAT ARE ON THE SAME SITE EXCEPT AS NOTED PER **2022 CBC 11B-206.2.2**
- 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 CBC 2022 11B-302.3 CHANGES IN LEVELS: VERTICAL CHANGES IN LEVEL FOR FLOOR OR
- GROUND SURFACES MAY BE 1/4 INCH HIGH MAXIMUM AND WITHOUT EDGE TREATMENT. CHANGES IN LEVEL GREATER THAN ¼ INCH AND NOT EXCEEDING 1/2 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** 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 CBC11B-307.2 FREE STANDING OBJECTS MOUNTED ON POSTS SHALL OVERHANG CIRCULATION PATHS 12" MAX WHEN LOCATED 27" MIN 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 SUCH SIGN OR OBSTRUCTION SHALL BE 27" MAX OR 80" MIN AFF. 2022 CBC11B-307.3

- ALL SIGNAGE SHALL NOT ENCROACH IN THE ACCESSIBLE PATH OF TRAVEL. PARKING SPACE IDENTIFICATION SIGNS SHALL INCLUDE THE INTERNATIONAL SYMBOL OF ACCESSIBILITY COMPLYING WITH SECTION CBC 2022 11B-703.7.2.1. SEE ALSO CBC 2022 11B-502.6
- 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**
- 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 OWNER'S EXPENSE. TOWED VEHICLES MAY BE 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

- VERIFY ALL DIMENSIONS AND FIELD VERIFY EXTERIOR FINISH GRADE ELEVATIONS AT EACH BUILDING FOR EACH STAIR
- HANDRAIL: (1) +34"-38" ABOVE STAIR NOSING. (2022 CBC SEC.1014.2) 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. 1014.3.2). THE GRIP SHALL BE 1-1/2"
- CLEAR FROM WALL. (2022 CBC SEC. 1014.7) HANDRAILS ARE PERMITTED TO BE INTERRUPTED BY A NEWEL POST AT
- A TURN OR LANDING. (2022 CBC SEC. 1014.4, EXC. 1) HEADROOM: PROVIDE A MINIMUM OF 80" (6'-8") 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)
- GUARDS SHALL BE NOT LESS THAN 42 INCHES HIGH, MEASURED VERTICALLY. (2022 CBC SEC. 1015.3) 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) USABLE SPACE UNDER STAIRS SHALL BE PROTECTED WITH 1/2" TYPE X GYPSUM BOARD OR ANOTHER ACCEPTABLE 1-HOUR FIRE-RESISTANCE-RATED CONSTRUCTION OR THE RESISTANCE RATING OF THE STAIRWAY ENCLOSURE, WHICHEVER IS GREATER. (2022 CBC SEC. 1011.7.3, EXC)
- FOR REQUIRED GUARDS, INTERMEDIATE MEMBERS SHALL BE SPACED SUCH THAT A SPHERE 4" IN DIAMETER CANNOT PASS THROUGH. (2022 CBC SEC.
- 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) 1. MAXIMUM RISE SHALL BE 7.75" (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) 13. 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.
- 14. 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. 19. 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 **FOLLOWING MATERIALS:** TWO-INCH NOMINAL LUMBER
- 2. TWO THICKNESSES OF ONE-INCH NOMINAL LUMBER WITH BROKEN LAP JOINTS
- 3. THE THICKNESS OF 0.719-INCH WOOD STRUCTURAL PANELS WITH JOINTS BACKED BY 0.719-INCH WOOD STRUCTURAL PANELS
- 4. THE THICKNESS OF 0.75-INCH PARTICLE BOARD WITH JOINTS
- BACKED BY 0.75-INCH PARTICLE BOARD ONE-HALF-INCH GYPSUM BOARD ONE-FOURTH-INCH CEMENT-BASED MILLBOARD
- BATTS OR BLANKETS OF MINERAL WOOL, MINERAL FIBER OR OTHER APPROVED MATERIAL INSTALLED IN SUCH A MANNER AS TO BE SECURELY RETAINED IN PLACE
- 8. CELLULOSE INSULATION INSTALLED AS TESTED FOR THE SPECIFIC APPLICATION. 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:
- VERTICALLY AT CEILING AND FLOOR LEVELS . 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. 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. DRAFTSTOPPING IN FLOOR/CEILING SPACES SHALL COMPLY WITH SECTION A. DRAFTSTOPPING SHALL BE INSTALLED TO SUBDIVIDE FLOOR/CFILING 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 DRAFTSTOPS 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.**
- 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

EXCEPTION: BUILDINGS EQUIPPED THROUGHOUT WITH AN AUTOMATIC

DOORS WITH AUTOMATIC LATCHES CONSTRUCTED AS REQUIRED FOR THE PARTITIONS.

ROOF VENTILATION NOTES

PER 2022 CBC SECTION 1203.2.1 & 1203.2.2

THE SPACE SHALL BE PERMITTED.

- 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 1/150 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 RQUIRED 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
- . VENTILATORS SHALL BE INSTALLED IN ACCORDACE 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. ATTTIC ACCESS DOORS SHALL HAVE PERMENTLY ATTACHED INSULATION
- USING ADHESIVE OR MECHANICAL FASTENERS. THE ATTIC ACCESS SHALL BE GASKETED TO PREVENT AIR LEAKAGE (2022 CEnC 150.0(a)2) 3. PERMENTLY 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 EXHUAST FAN AS DETERMINED IN ACCORDANCE WITH <u>2022 CEnc SEC. 130.0(c)</u>. NIGHT LIGHTS SHALL NOT BE REQUIRED TO BE CONTROLLED BY VACANCY
- SENSORS <u>(2022 CEnC 150(k)1E)</u> 4. ALL INSTALLED LUMINAIRES SHALL BE HIGH EFFICACY IN ACCORDANCE WITH CEnC TABLE 150.0-A. (2022 CEnC 150(k)1A)
- 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(k)1B)

DOORS

- EGRESS DOORS (2022 CBC 1010.1) a. MEANS OF EGRESS DOORS SHALL MEET THE REQUIREMENTS OF **2022 CBC**
- b. DOORS SHALL SWING IN THE DIRECTION OF EGRESS TRAVEL WHERE
- SERVING A ROOM OR AREAS CONTAINING AN OCCUPANT LOAD OF 50 OR MORE PERSONS OR A GROUP H OCCUPANCY (2022 CBC 1010.1.2.1)
- c. ALL EXTERIOR DOOR LANDINGS ARE TO BE NOT MORE THAN 2% IN RUNNING AND CROSS SLOPE (2022 CBC1010.1.5) d. 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 OF NOT LESS THAN 44" EXCEPT AS NOTED PER 2022 CBC 1010.1.6 e. EGRESS DOORS SHALL BE READILY OPENABLE FROM BOTH SIDES
- WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT EXCEPT AS SPECIFICALLY PERMITTED PER 2022 CBC 1010.1.9 f. THE UNLATCHING OF ANY DOOR OR LEAF SHALL NOT REQUIRE MORE THAN ONE OPERATION EXCEPT AS NOTED PER 2022 CBC 1010.1.9.6 a. SWINGING DOORS SERVING A GROUP H OCCUPANCY AND SWINGING
- DOORS SERVING ROOMS OR SPACES WITH AN OCCUPANT LOAD OF 50 OR MORE IN A GROUP A OR E OCCUPANCY ASSEMBLY AREA NOT CLASSIFIED AS AN ASSEMBLY OCCUPANCY E, I-2 OR I-2.1 OCCUPANCIES SHALL NOT BE PROVIDED WITH A LATCH OR LOCK OTHER THAN PANIC HARDWARE OR FIRE EXIT HARDWARE EXCEPT AS NOTED PER 2022 CBC 1010.1.10.
- h. ELECTRICAL ROOMS WITH EQUIPMENT RATED 800-AMPERES OR MORE AND OVER 6 FEET WIDE, AND THAT CONTAIN OVERCURRENT DEVISES, SWITCHING DEVICES OR CONTROL DEVICES WITH EXIT OR EXIT ACCESS DOORS SHALL BE EQUIPPED WITH PANIC HARDWARE OR FIRE EXIT HARDWARE. THE DOORS SHALL SWING IN THE DIRECTION OF EGRESS TRAVEL. (2022 CBC 1010.1.10)
- REQUIREMENTS FOR DOOR HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERATING DEVICES AT EGRESS DOORS IN OTHER THAN GROUP R AND M OCCUPANCIES WITH AN OCCUPANT LOAD OF 10 OR LESS SHALL COMPLY WITH 2022 CALIFORNIA REFERENCED STANDARDS CODE SFM **STANDARD 12-10-2** HARDWARE SHALL HAVE A SMOOTH FINISH WITH NO SHARP OR
- LEVER-ACTUATED LATCHES OR LOCKS SHALL BE CURVED WITH A RETURN TO WITHIN 1/2" OF THE DOOR FACE ACCESSIBILITY REQUIREMENTS AT DOORS, DOORWAYS, AND GATES (2022 CBC a. MINIMUM CLEAR WIDTH AT ACCESSIBLE DOORS IS 32" MEASURED

BURRED EDGES

BETWEEN THE FACE 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). REFER TO PLANS FOR MINIMUM CLEARANCES

c. THRESHOLDS SHALL BE 1/2" HIGH MAX (2022 CBC 11B-404.2.5); REFER TO

- DOOR DETAILS d. 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) e. HAND-ACTIVATED DOOR OPENING HARDWARE, HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERATING DEVICES SHALL HAVE A SHAPE
- THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING OR TWISTING OF THE WRIST TO OPERATE (2022 CBC 11B-404.2.7 AND 2019 CBC 11B-309.4) OPERABLE PARTS SHALL BE BETWEEN 34 INCHES AND 44 INCHES ABOVE THE FLOOR (2022 CBC 11B-404.2.7)
- g. CLOSERS SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR TO A POSITION OF 12 DEGREES FROM THE LATCH IS 5 SECONDS MINIMUM (2022 CBC h. SWINGING DOOR AND GATE SURFACES WITHIN 10" OF THE FF OR GROUND SHALL HAVE A SMOOTH SURFACE ON THE PUSH SIDE EXTENDING THE
- 11B-404.2.10 OPENING PROTECTIVES AND FIRE DOOR ASSEMBLIES (2022 CBC 716 AND

FULL WIDTH OF THE DOOR OR GATE EXCEPT AS NOTED **PER 2022 CBC**

- a. FIRE DOORS SHALL COMPLY WITH THE PROVISIONS OF 2022 CBC 716 AND 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 716.2.1.1) d. UNLESS OTHERWISE SPECIFICALLY PERMITTED. SINGLE SIDE-HINGED SWINGING FIRE DOORS AND BOTH LEAVES OF PAIRS OF SIDE-HINGES 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 HOSE 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 SHALL 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 716.2.9.1 AND SHALL
- SHOW THE LETTER "S" ON THE FIRE RATING LABEL OF THE DOOR PER 2022 CBC 716.2.9.3 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
- . GLAZING a. GLAZING IN ALL DOOR ASSEMBLIES AND FIRE WINDOW ASSEMBLIES SHALL COMPLY WITH **2022 CBC CHAPTER 24 - SAFETY GLAZING.** LOCATIONS

TRANSMITTED TEMPERATURE END POINT. 2022 CBC 716.2.9.1

- NOTED WITH "T" b. GLAZING USED IN FIRE DOOR ASSEMBLIES AND FIRE WINDOW ASSEMBLIES SHALL COMPLY WITH 2022 CBC 716.1.2 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 SEE **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

- WINDOWS IN HAZARDOUS LOCATIONS REQUIRE SAFETY GLAZING MATERIALS. (2022 CBC SEC. 2406.4) AT HAZARDOUS LOCATIONS REQUIRING SAFETY GLAZING, PROVIDE SAFETY
- GLAZING IN BOTH PANES PER 2022 CBC 2406.3 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 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. EXCEPTION: MIN 5 SF AT GROUND FLOOR, MINIMUM NET CLEAR OPENING
- OPERATIONAL FROM THE INSIDE OF THE ROOM WITHOUT THE USE OF KEYS. TOOLS OR SPECIAL KNOWLEDGE. (2022 CBC SECTION 1030) 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

DIMENSIONS: HEIGHT: 24". WIDTH: 20". EGRESS WINDOWS SHALL BE

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

EXTERIOR OF THE BUILDING, SHALL COMPLY WITH ONE OF THE FOLLOWING

 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

- 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
- HAVING JURISDICTION OVER THE MONUMENTS OR BENCHMARK. SEPTIC TANKS THAT ARE DISCOUNTED FROM FURTHER USE SHALL BE ABANDONED IN ACCORDANCE WITH CPC 722. SOILS ENGINEER SPECIAL INSPECTION IS REQUIRED FOR ABANDONMENT OF SEPTIC SUYSTEMS AND GRADING TO FILL THE RESULTANT EXCAVATIONS. WDID #3 40C394322
- EROSION CONTROL MEASURES SHALL BE IMPLEMENTED AND MAINTAINED DURING ALL CONSTRUCTION OR DEMOLITION AND GROUND DISTURBING ACTIVITIES PER THE CITY OF SAN BUENAVENTURA STANDARDS. 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 SANITATION FACILITIES SHALL BE PROVIDED DURING CONSTRUCTION. OR DEMOLITION ACTIVITIES IN ACCORDANCE WITH THE CALIFORNIA PLUMBING CODE. CBC 3305.1
- THE OWNER/CONTRACTOR SHALL BE RESPONSIBLE FOR PLACEMENT OR SAFETY DEVICES SUCH AS FENCING, BARRICADES, SAFETY TAPE, ETC., AND SHALL FOLLOW ALL APPLICABLE INDUSTRIAL SAFETY REGULATIONS.
- PER THE 2022 CPC SECTION 3307.1, 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. 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 STANDAR SPECIFICATIONS.
- 10. A SEPARATE ENCROACHMENT PERMIT IS REQUIRED FOR ANY WORK IN THE PUBLIC RIGHT-OF-WAY, WITHIN CITY FASEMENTS, OR FOR CONSTRUCTION TO PUBLIC UTILITES. WORK REQUIRING AN ENCROACHMENT PERMIT INCLUDES BUT IS NOT LIMITED TO DEMOLITION. UTILITES. WATER. SEWER. AND FIRE SERVICE LATERALS, CURBS, GUTTER AND SIDEWALK, DRIVEWAY APPROACHES, SIDEWALK UNDERDRAINS, STORM DRAIN IMPROVEMENTS, CONSTRUCTION STAGING IN THE RIGHT-OF-WAY.
- 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 AND SHALL BE APPROVED TO THE SATIFACTION OF THE BUILDING DIVIDISION AND THE PUBLIC WORKS DEPARTMENT PRIOR TO ENCROACHMENT PERMIT ISSUANCE.
- 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. SEPTIC TANKS SHALL BE ABANDONED IN ACCORDANCE WITH THE UNIFORM
- LEACH FIELD SHALL BE ABANDONED AS RECOMMENDED BY THE PROJECT SOILS ENGINEER. CONTACT THE PUBLIC WORKS INSPECTION HOTLINE AT 781.7554 WITH AT LEAST 48-HOURS NOTICE FOR ANY REQUIRED ENCROACHMENT PERMIT
- INSPECTION OR FINAL INSPECTION. 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

PLUMBING CODE. ABANDONED SEPTIC TANKS SHALL BE PUMPED OUT. THE

- . A SOILS ENGINEER SHAL PROVIDE SPECIAL INSPECTION AS REQUIRED FOR THE EXTENT AND LIMITS OF THE PRIVATE WASTE DISPOSAL SYSTEM.
- REMODELING OR DEMOLITION OF PRE-1978 STRUCTURES IWTHOUT USING LEAD AFE WORK PRACTICES IS A VIOLATIONOF THE CALIFORNIA HEALTH AND SAFETY CODE SECTION 105256, CONTRACTORS, REMODEL ORS AND PAINTERS ARE REQUIRED TO USE "LEAD-SAFE" WORK PRACTICEES PURSUANT TO TITLE 17. CALIFORNIA CODE OF REGULATIONS SECTION 36050. CONSTRUCTION DEBRIS KNOWN TO CONTAIN LEAD-BASED PAINT MUST BE DISPOSED AT AN
- APPROVED LOCATION. CONSTRUCTION NOISE WILL COMPLY WITH MUNICIPAL CODE SECTION 9.12 AND IS LIMITED TO THE HOURS SPECIFIED IN THE NOISE REGULATIONS.
- 20. DUST CONTROL SHALL BE MAINTAINED TO THE SATSFACTION OF THE CITY OF SAN BUENAVENTURA ALL WORK SHALL BE IN COMPLIANCE WITH THE 2022 EDITION OF THE CALIFORNIA BUILDING CODES BASED ON THE 2022 IBC, 2022 IRC, 2022 UMC, 2022 EDITION OF THE CALIFORNIA PLUMBING CODE BASED ON THE 2022

EDITION OF THE IPC AND THE 2022 CALIFORNIA GREEN BUILDING STANDARDS,

AND THE CITY OF SAN BUENAVENTURA MUNICIPAL CODE. EXCAVATION AND FILL FOR BUILDINGS AND STRUCTURES SHALL BE CONSTRUCTED OR PROTECTED SO AS NOT TO ENDANGER LIFE OR PROPERTY, STUMPS AND ROOTS SHALL BE REMOVED FROM THE SOIL TO A DEPTH OF NOT LESS THAN 12 INCHES (305 MM) BELOW THE SURFACE OF THE GROUND IN THE AREA TO BE OCCUPIED BY THE BUILDING. (CBC 2022-3304.1

EXCAVATION AND FILL)

- THE PERSON MAKING OR CAUSING AN EXCAVATION TO BE MADE SHALL PROVIDE WRITTEN NOTICE TO THE OWNERS OF ADJOINING BUILDINGS ADVISING THEM THAT THE EXCAVATION IS TO BE MADE AND THAT THE ADJOINING BUILDINGS SHOULD BE PROTECTED. SAID NOTIFICATION SHALL BE DELIVERED NOT LESS THAN 10 DAYS PRIOR TO THE SCHEDULED STARTING DATE OF THE EXCAVATION.
- 24. A CAL-OSHA PERIT IS REQUIRED FOR EXCAVATIONS OR TRENCHING GREATER THAN 5 FT IN DEPTH. A COPY OF THE ANNUAL. PROVISIONAL, OR TEMPORARY PERMIT SHALL BE PROVIDED TO THE BUILDING DIVISION PRIOR TO BUILDING. UTILITY AND/OR GRADING PERMIT ISSUANCE, IF APPLICABLE. CA HEALTH AND SAFETY CODE SECTION 17922.5.
- 25. DUST CONTROL SHALL BE MAINTAINED TO THE SATISFACTION OF THE CITY OF SAN BUENAVENTURA 26. CONSTRUCTION NOISE WILL COMPLY WITH MUNICIPAL CODE SECTION 9.12 AND IS LIMITED TO THE HOURS SPECIFIED IN THE NOISE REGULATIONS NO WORK TO BE PERFORMED WITHIN THE CREEK CORRIDOR. ANY JURISDICTIONAL PERMITS FROM THE ARMY CORP. FISH AND WILDLIFE. OR
- IMPROVEMENTS, STREET AND ROAD IMPROVEMENTS, SHALL BE ISSUES PRIOR TO PLAN APPROVAL AND/OR COMMENCING WITH WORK WITHIN THE RESPECTICE WATERWAYS. 28. A SEPARATE COUNTY ENVIRONMENTAL HEALTH WATER WELL ABANDONMENT PERMIT SHALL BE ISSUED TO A LICENSED WELL DRILLER. THE LICENSED CONTRACTOR SHALL PROVIDE A COPY OF THE COUNTY ENVIRONMENT HEALTH WELL ABANDONMENT PERMIT PRIOR TO CITY PERMIT ISSUANCE. ALL

REGIONAL WATER QUALITY CONTROL BOARD REQUIRED FOR DRAINAGE, SITE

ELECTRICAL AND PLUMBING CONNECTIONS AT THE WELL TO BE ABANDONED

SHALL BE TERMINATED IN ACCORDANCE WITH THE 2022 CEC AND CPC. 29. A PERMIT IS REQUIRED FROM THE PUBLIC WORKS DEPARTMENT PRIOR TO SEWER LATERAL ABANDONMENT. THE ABANDONMENT MUST BE COMPLETED PRIOR TO COMPLETEING THE UTILITIES SIGN-OFF SHEET. CONTACT JEREMY GEARHART AT (805) 781-7033 FOR THE SEWER SIGN OFF

CODE ANALYSIS (CBC 2022)

N	
BEARING AND PARTY WALLS RATED 1 HR EXISTING TO REMAIN	T-601
1 HR	T-602
See Allowable Openings Below	T-705.8
N/A	706
	707.3
1 HR LOCATED AT EXISTING PARTY WALLS, PROTECT IN PLACE	708
EXISTING SPACES TO REMAIN	718
OCCUR AT ROOF ONLYY, NO MODIFICATIONS PROPOSED	711
NO NEW PENTRATIONS PART OF THIS SCOPE OF WORK, EXISTING TO REMAIN	714
N/A	7A
EXISTING NO CHANGE	1011.2
N/A	1012
125' MAX. EXISTING NO CHANGE	1006.2
ALL UNITS (MULTISTORY DWELLING UNITS WITH EMERGENCY EGRESS WINDOWS AT 2ND FLOOR SLEEPING ROOMS)	1006.1 OR Table 1006.2.1
2	1006.3
EXISTING NO CHANGE	T-1017.2
EXISTING NO CHANGE	1023
EXISTING NO CHANGE	
EXISTING NO CHANGE	11B-208
EXISTING NO CHANGE	11B-206.2
EXISTING NO CHANGE	1202.2
STC 50 @ WALL ASSEMBLIES, EXISTING TO REMAIN NO CHANGE	1206
CLASS A	1505
	BEARING AND PARTY WALLS RATED 1 HR EXISTING TO REMAIN 1 HR See Allowable Openings Below N/A 1 HR LOCATED AT EXISTING PARTY WALLS, PROTECT IN PLACE EXISTING SPACES TO REMAIN OCCUR AT ROOF ONLYY, NO MODIFICATIONS PROPOSED NO NEW PENTRATIONS PART OF THIS SCOPE OF WORK, EXISTING TO REMAIN N/A EXISTING NO CHANGE N/A 125' MAX. EXISTING NO CHANGE ALL UNITS (MULTISTORY DWELLING UNITS WITH EMERGENCY EGRESS WINDOWS AT 2ND FLOOR SLEEPING ROOMS) 2 EXISTING NO CHANGE

N/A NO CHANGE

N/A NO CHANGE

N/A NO CHANGE

N/A NO CHANGE

BUILDING INFORMATION

GENERAL BUILDING INFORMATION - ALLOWED

OCCUPANCY CLASIFICATION (SEC. 302.1)	
CONSTRUCTION TYPE (TABLE 601)	VE
ALLOWABLE BUILDING HEIGHT (TABLE 504.3)	N/A NO CHANGE
ALLOWABLE NUMBER OF STORIES (TABLE 504.4)	N/A NO CHANGE
ALLOWABLE BUILDING AREA PER STORY (TABLE 506.2)	N/A NO CHANGE
TOTAL ALLOWABLE BUILDING AREA (TABLE 506.2)	N/A NO CHANGE
GENERAL BUILDING INFORMATION - PRO	POSED

ALLOWED OPENINGS

PROPOSED BUILDING HEIGHT

PROPOSED BUILDING AREA

AUTOMATIC FIRE SPRINKLERS

PROPOSED NUMBER OF STORIES

MAXIMUM AREA OF EXTERIOR WALL OPENINGS BASED ON FIRE SEPARATION DISTANCE AND DEGREE OF OPENING PROTECTION

(CBC 2022 TABLE 705.8) DEGREE OF OPENING PROTECTION: UNPROTECTED, NONSPRINKLERED (UP,NS) (PER CBC 2022 SECTION 705.8.1)

0' ≤ x < 3'	NOT PERMITTED
3' ≤ x < 5'	NOT PERMITTED
5' ≤ x < 10'	10%
10' ≤ x < 15'	15%
15' ≤ x < 20'	25%
20' ≤ x < 25'	45%
25' ≤ x < 30'	70%
30' ≤ x	NO LIMIT

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AGENCY

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NO. REVISION PLAN CHECK 05/26/23 PROJECT MANAGER DRAWN BY CHECKED BY PROJECT NUMBER 2371-02

2022 CALIFORNIA GREEN BUILDING STANDARDS CODE

RESIDENTIAL MANDATORY MEASURES SHEET 1 (JANUARY 2023)

CHAPTER 1 - ADMINISTRATION SECTION 101 GENERAL

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 REPEAL OF BUILDING REGULATIONS TO THE CALIFORNIA CODE OF REGULATIONS, TITLE 24, ALSO REFERRED TO AS THE CALIFORNIA BUILDING STANDARDS CODE.

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 ENERGY EFFICIENCY.
- 3. WATER EFFICIENCY AND CONSERVATION. 4. MATERIAL CONSERVATION AND RESOURCE EFFICIENCY. ENVIRONMENTAL QUALITY.

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

SECTION 102 CONSTRUCTION DOCUMENTS AND INSTALLATION VERIFICATION

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

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

CHAPTER 3 - GREEN BUILDING SECTION 301 GENERAL

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 MANDATORY 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, RESTRIPING, AND REPAIRING OR MAINTAINING EXISTING LIGHTING FIXTURES ARE NOT CONSIDERED ALTERATIONS FOR THE PURPOSE OF

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

IN MIXED OCCUPANCY BUILDINGS, EACH PORTION OF A BUILDING SHALL COMPLY WITH THE SPECIFIC GREEN BUILDING MEASURES APPLICABLE TO

CHAPTER 4 - RESIDENTIAL

MANDATORY MEASURES DIVISION 4.1 PLANNING AND DESIGN

4.106 SITE DEVELOPMENT

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. 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. 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:

- WATER COLLECTION AND DISPOSAL SYSTEMS FRENCH DRAINS
- 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
- 2. ACCESSORY DWELLING UNITS (ADU) AND JUNIOR ACCESSORY DWELLING UNITS (JADU) WITHOUT ADDITIONAL PARKING FACILITIES.

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 ACCOMODATE A DEDICATED 208/240-VOLT BRANCH CIRCUIT. THE RACEWAY SHALL NOT BE LESS THAN TRADE SIZE 1 (NOMINAL 1-INCH INSIDE DIAMTER). 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

4.106.4.2 NEW MULTIFAMILY DWELLINGS, HOTELS AND MOTELS AND NEW

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 SPACE SHALL COUNT AS AT LEAST ONE STANDARD AUTOMOBILE PARKING SPACE ONLY FOR THE PURPOSE OF COMPLYING WITH ANY APPLICABLE MINIMUM PARKING SPACE REQUIREMENTS ESTABLISHED BY 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.

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.

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

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

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. 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.

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.

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

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 SERVED BY THE ALMS. THE ELECTRICAL SYSTEM AND ANY ON-SITE DISTRIBUTION TRANSFORMERS SHALL HAVE SUFFICIENT CAPACITY TO DELIVER AT LEAST 3.3 KW SIMULTANEOUSLY TO EACH EV CHARGING STATION (EVCS) SERVED BY THE ALMS, THE BRANCH CIRCUIT SHALL HAVE A MINIMUM CAPACITY OF 40 AMPERES, AND INSTALLED EVSE SHALL HAVE A CAPACITY OF NOT LESS THAN 30 AMPERES. ALMS SHALL NOT BE USED TO REDUCE THE MINIMUM REQUIRED ELECTRICAL CAPACITY TO THE REQUIRED EV CAPABLE

4.106.4.2.2.1 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.

4.106.4.2.2.1.1 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 4.106.4.2.2.1.1 AND SECTION 4.106.4.2.2.1.2, ITEM 3.

4.106.4.2.2.1.2 ELECTRIC VEHICLE CHARGING STATIONS (EVCS)

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

- 1. THE MINIMUM LENGTH OF EACH EV SPACE SHALL BE 18 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.

4.106.4.2.2.1.3 ACCESSIBLE EV SPACES

IN ADDITION TO THE REQUIREMENTS IN SECTIONS 4.106.4.2.2.1.1 AND 4.106.4.2.2.1.2. 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

4.106.4.2.3 EV SPACE REQUIREMENTS

. 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 ELECTRICAL LOAD CALCULATIONS. PLAN DESIGN SHALL BE BASED UPON A 40-AMPERE MINIMUM BRANCH CIRCUIT. REQUIRED RACEWAYS AND RELATED COMPONENTS THAT ARE PLANNED TO BE INSTALLED UNDERGROUND, ENCLOSED, INACCESSIBLE OR IN CONCEALED AREAS AND SPACES SHALL BE INSTALLED AT THE TIME OF ORIGINAL CONSTRUCTION.

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

AND PAVEMENT MARKINGS) OR ITS SUCCESSOR(S).

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

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

1. CONSTRUCTION DOCUMENTS ARE INTENDED TO DEMONSTRATE THE

PROJECT'S CAPABILITY AND CAPACITY FOR FACILITATING FUTURE EV 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

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.

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.

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

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 80M 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, OR THE SHOWER SHALL BE DESIGNED TO ALLOW ONLY ONE SHOWER OUTLET TO BE IN OPERATION AT A TIME.

NOTE: A HAND HELD SHOWER SHALL BE CONSIDERED A

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.

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

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, SHALL 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

THIS TABLE COMPILES THE DATA IN SECTION 4.303.1 AND IS INCLUDED AS A

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

TABLE - MAXIMUM FIXTURE WATER USE	
FIXTURE TYPE	FLOW RATE
SHOWER HEADS (RESIDENTIAL)	1.8 GMP @ 80 PSI
LAVATORY FAUCETS (RESIDENTIAL)	MAX. 1.2 GPM @ 60 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

CONVENIENCE FOR THE USER.

4.304.1 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS AFTER DECMEBER 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
- 1. THE MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO) AND SUPPORTING DOCUMENTS ARE AVAILABLE AT: http://www.water.ca.gov/wateruseefficiency/landscapeordinance/

PRESCRIPTIVE COMPLIANCE OPTION.

DIVISION 4.4 MATERIAL CONSERVATION

http://www.water.ca.gov/wateruseefficiency/landscapeordinance/

2. A WATER BUDGETY CALCULATOR IS AVAILABLE AT:

AND RESOURCE EFFICIENCY 4.406 ENHANCED DURABILITY AND REDUCED MAINTENANCE

ANNULAR 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

4.408 CONSTRUCTION WASTE REDUCTION, DISPOSAL AND

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

METHOD ACCEPTABLE TO THE ENFORCING AGENCY.

- 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 ACCEPTIONS TO THE REQUIREMENTS OF THIS SECTION WHEN ISOLATED JOBSITES 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 COMFORMANCE WITH ITEMS 1 THROUGH 5. THE CONSTRUCTION WASTE MANAGEMENT PLAN SHALL BE UPDATED AS NECESSARY AND SHALL BE AVAILABLE DURING

CONSTRUCTION FOR EXAMINATION 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.

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CONSULTANT

AGENCY

NO. REVISION PROJECT MANAGER DRAWN BY CHECKED BY

2371-02

PROJECT NUMBER

2022 CALIFORNIA GREEN BUILDING STANDARDS CODE

RESIDENTIAL MANDATORY MEASURES SHEET 2 (JANUARY 2023)

DIVISION 4.4 MATERIAL CONSERVATION CONTINUED

- 2. SPECIFY IF CONSTRUCTION AND DEMOLITION WASTE MATERIALS WILL BE SORTED ON-SITE (SOURCE-SEPARATED) OR BULK MIXED 3. IDENTIFY DIVERSION FACILITIES WHERE THE CONSTRUCTION AND
- DEMOLITION WASTE MATERIAL WILL BE TAKEN. 4. IDENTIFY CONSTRUCTION METHODS EMPLOYED TO REDUCE THE
- AMOUNT OF CONSTRUCTION AND DEMOLITION WASTE GENERATED. 5. SPECIFY THAT THE AMOUNT OF CONSTRUCTION AND DEMOLITION WASTE MATERIAL DIVERTED SHALL BE CALCULATED BY WEIGHT OR VOLUME, BUT NOT BY BOTH.

4.408.3 WASTE MANAGEMENT COMPANY.

UTILIZE A WASTE MANAGEMENT COMPANY, APPROVED BY THE ENFORCING AGENCY. WHICH CAN PROVIDE VERIFIABLE DOCUMENTATION THAT THE PERCENTAGE OF CONSTRUCTION AND DEMOLITION WASTE MATERIAL DIVERTED FROM THE LANDFILL COMPLIES WITH **SECTION 4.408.1.**

NOTE: THE OWNER OR CONTRACTOR MAY MAKE THE DETERMINATION IF THE CONSTRUCTION AND DEMOLITION WASTE MATERIALS WILL BE DIVERTED BY A WASTE MANAGEMENT COMPANY.

4.408.4 WASTE STREAM REDUCTION ALTERNATIVE [LR]. PROJECTS THAT GENERATE A TOTAL COMBINED WEIGHT OF

CONSTRUCTION AND DEMOLITION WASTE DISPOSED OF IN LANDFILLS. WHICH DO NOT EXCEED 3.4 POUNDS PER SQUARE FOOT OF THE BUILDING AREA SHALL MEET THE MINIMUM 65 PERCENT CONSTRUCTION WASTE REDUCTION REQUIREMENT IN SECTION 4.408.1.

4.408.4.1 WASTE STREAM REDUCTION ALTERNATIVE.

PROJECTS THAT GENERATE A TOTAL COMBINED WEIGHT OF CONSTRUCTION AND DEMOLITION WASTE DISPOSED OF IN LANDFILLS. WHICH DO NOT EXCEED 2 POUNDS PER SQUARE FOOT OF THE BUILDING AREA, SHALL MEET THE MINIMUM 65-PERCENT CONSTRUCTION WASTE REDUCTION REQUIREMENT IN SECTION 4.408.1.

4.408.5 DOCUMENTATION DOCUMENTATION SHALL BE PROVIDED TO THE ENFORCING AGENCY WHICH DEMONSTRATES COMPLIANCE WITH **SECTION 4.408.2**, ITEMS 1 THOUGH 5, **SECTION 4.408.3** OR **SECTION 4.408.4**

1. SAMPLE FORMS FOUND IN "A GUIDE TO THE CALIFORNIA GREEN BUILDING STANDARDS CODE (RESIDENTIAL)" LOCATED AT WWW.HCD.CA.GOV/CALGREEN.HTML MAY BE USED TO ASSIST IN DOCUMENTING COMPLIANCE WITH THIS SECTION.

2. MIXED CONSTRUCTION AND DEMOLITION DEBRIS (C&D) PROCESSORS CAN BE LOCATED AT THE CALIFORNIA DEPARTMENT OF RESOURCES RECYCLING AND RECOVERY (CALRECYCLE).

4.410 BUILDING MAINTENANCE AND OPERATION

4.410.1 OPERATION AND MAINTENANCE MANUAL AT THE TIME OF FINAL INSPECTION, A MANUAL, COMPACT DISC, WEB-BASED REFERENCE OR OTHER MEDIA ACCEPTABLE TO THE ENFORCING AGENCY WHICH INCLUDES ALL OF THE FOLLOWING SHALL BE PLACED IN THE

1. DIRECTIONS TO THE OWNER OR OCCUPANT THAT THE MANUAL SHALL REMAIN WITH THE BUILDING THROUGHOUT THE LIFE CYCLE OF THE STRUCTURE.

- 2. OPERATION AND MAINTENANCE INSTRUCTIONS FOR THE FOLLOWING:
- a. EQUIPMENT AND APPLIANCES, INCLUDING WATER-SAVING DEVICES AND SYSTEMS, HVAC SYSTEMS, PHOTOVOLTAIC SYSTEMS, ELECTRIC VEHICLE CHARGERS, WATER-HEATING SYSTEMS AND OTHER MAJOR APPLIANCES AND EQUIPMENT.
- b. ROOF AND YARD DRAINAGE, INCLUDING GUTTERS AND
- c. SPACE CONDITIONING SYSTEMS, INCLUDING CONDENSERS AND AIR FILTERS.
- d. LANDSCAPE IRRIGATION SYSTEMS. e. WATER REUSE SYSTEMS.
- INFORMATION FROM LOCAL UTILITY, WATER AND WASTE RECOVERY PROVIDERS ON METHODS TO FURTHER REDUCE RESOURCE CONSUMPTION, INCLUDING RECYCLE PROGRAMS AND LOCATIONS.
- 4. PUBLIC TRANSPORTATION AND/OR CARPOOL OPTIONS AVAILABLE IN THE AREA.
- 5. EDUCATIONAL MATERIAL ON THE POSITIVE IMPACTS OF AN INTERIOR RELATIVE HUMIDITY BETWEEN 30-60 PERCENT AND WHAT METHODS AN OCCUPANT MAY USE TO MAINTAIN THE RELATIVE HUMIDITY
- LEVEL IN THAT RANGE. 6. INFORMATION ABOUT WATER-CONSERVING LANDSCAPE AND
- IRRIGATION DESIGN AND CONTROLLERS WHICH CONSERVE WATER. 7. INSTRUCTIONS FOR MAINTAINING GUTTERS AND DOWNSPOUTS AND THE IMPORTANCE OF DIVERTING WATER AT LEAST 5 FEET AWAY
- FROM THE FOUNDATION. 8. INFORMATION ON REQUIRED ROUTINE MAINTENANCE MEASURES, INCLUDING, BUT NOT LIMITED TO, CAULKING, PAINTING, GRADING
- AROUND THE BUILDING, ETC. 9. INFORMATION ABOUT STATE SOLAR ENERGY AND INCENTIVE PROGRAMS AVAILABLE
- 10. A COPY OF ALL SPECIAL INSPECTION VERIFICATIONS REQUIRED BY THE ENFORCING AGENCY OR THIS CODE. 11. INFORMATION FROM CAL FIRE ON MAINTENANCE OF DEFENSIBLE

SPACE AROUND RESIDENTIAL STRUCTURES 4.410.2 RECYCLING BY OCCUPANTS. WHERE 5 OR MORE MULTIFAMILY DWELLING UNITS ARE CONSTRUCTED ON A BUILDING SITE, PROVIDE READILY ACCESSIBLE AREA(S) THAT SERVES ALL BUILDINGS ON THE SITE AND IS IDENTIFIED FOR THE DEPOSITING, STORAGE AND COLLECTION OF NON-HAZARDOUS MATERIALS FOR RECYCLING, INCLUDING (AT A MINIMUM) PAPER, CORRUGATED CARDBOARD, GLASS,

RURAL JURISDICTIONS THAT MEET AND APPLY FOR THE EXEMPTION IN PUBLIC RESOURCES CODE SECTION 42649.82 (A)(2)(A) ET SEQ. ARE NOT REQUIRED TO COMPLY WITH THE ORGANIC WASTE PORTION OF THIS

PLASTICS, ORGANIC WASTE, AND METALS, OR MEET A LAWFULLY ENACTED

DIVISION 4.5 ENVIRONMENTAL QUALITY

LOCAL RECYCLING ORDINANCE, IF MORE RESTRICTIVE.

4.501 GENERAL

THE PROVISIONS OF THIS CHAPTER SHALL OUTLINE MEANS OF REDUCING THE QUANTITY OF AIR CONTAMINANTS THAT ARE ODOROUS, IRRITATING AND/OR HARMFUL TO THE COMFORT AND WELL-BEING OF A BUILDING'S INSTALLERS, OCCUPANTS AND NEIGHBORS.

4.503 FIREPLACES

ANY INSTALLED GAS FIREPLACE SHALL BE A DIRECT-VENT SEALED-COMBUSTION TYPE. ANY INSTALLED WOODSTOVE OR PELLET STOVE SHALL COMPLY WITH U.S. EPA NEW SOURCE PERFORMANCE STANDARDS (NSPS) EMISSION LIMITS AS APPLICABLE, AND SHALL HAVE A PERMANENT LABEL INDICATING THEY ARE CERTIFIED TO MEET THE EMISSION LIMITS. WOODSTOVES, PELLET STOVES AND FIREPLACES SHALL ALSO COMPLY WITH APPLICABLE LOCAL ORDINANCES.

ALL CARPET INSTALLED IN THE BUILDING INTERIOR SHALL MEET THE REQUIREMENTS OF THE CALIFORNIA DEPARTMENT OF PUBLIC HEALTH. "STANDARD METHOD FOR THE TESTING AND EVALUATION OF VOLATILE ORGANIC CHEMICAL EMISSIONS FROM INDOOR SOURCES USING ENVIRONMENTAL CHAMBERS," VERSION 1.2, JANUARY 2017 (EMISSION TESTING METHOD FOR CALIFORNIA SPECIFICATION 01350). SEE CALIFORNIA DEPARTMENT OF PUBLIC HEALTH'S WEBSITE FOR CERTIFICATION PROGRAMS AND TESTING LABS. HTTPS://WWW.CDPH.CA.GOV/PROGRAMS/CCDPHP/DEODC/EHLB/IAQ/PAGES/

4.504.3.1 CARPET CUSHION

ALL CARPET CUSHION INSTALLED IN THE BUILDING INTERIOR SHALL MEET THE REQUIREMENTS OF THE CALIFORNIA DEPARTMENT OF PUBLIC HEALTH, "STANDARD METHOD FOR THE TESTING AND EVALUATION OF VOLATILE ORGANIC CHEMICAL EMISSIONS FROM INDOOR SOURCES USING ENVIRONMENTAL CHAMBERS," VERSION 1.2, JANUARY 2017 (EMISSION TESTING METHOD FOR CALIFORNIA SPECIFICATION 01350). SEE CALIFORNIA DEPARTMENT OF PUBLIC HEALTH'S WEBSITE FOR CERTIFICATION PROGRAMS AND TESTING LABS HTTPS://WWW.CDPH.CA.GOV/PROGRAMS/CCDPHP/DEODC/EHLB/IAQ/PAG

4.504.3.2 CARPET ADHESIVE ALL CARPET ADHESIVE SHALL MEET THE REQUIREMENTS OF TABLE

4.504.4 RESILIENT FLOORING SYSTEMS

WHERE RESILIENT FLOORING IS INSTALLED, AT LEAST 80 PERCENT OF FLOOR AREA RECEIVING RESILIENT FLOORING SHALL MEET THE REQUIREMENTS OF THE CALIFORNIA DEPARTMENT OF PUBLIC HEALTH. "STANDARD METHOD FOR THE TESTING AND EVALUATION OF VOLATILE ORGANIC CHEMICAL EMISSIONS FROM INDOOR SOURCES USING ENVIRONMENTAL CHAMBERS," VERSION 1.2, JANUARY 2017 (EMISSION TESTING METHOD FOR CALIFORNIA SPECIFICATION 01350). SEE CALIFORNIA DEPARTMENT OF PUBLIC HEALTH'S WEBSITE FOR CERTIFICATION PROGRAMS AND TESTING LABS. HTTPS://WWW.CDPH.CA.GOV/PROGRAMS/CCDPHP/DEODC/EHLB/IAQ/PAG

4.504.5 COMPOSITE WOOD PRODUCTS

HARDWOOD PLYWOOD, PARTICLEBOARD AND MEDIUM DENSITY FIBERBOARD COMPOSITE WOOD PRODUCTS USED ON THE INTERIOR OR EXTERIOR OF THE BUILDING SHALL MEET THE REQUIREMENTS FOR FORMALDEHYDE AS SPECIFIED IN ARB'S AIR TOXICS CONTROL MEASURE FOR COMPOSITE WOOD (17 CCR 93120 ET SEQ.), BY OR BEFORE THE DATES SPECIFIED IN THOSE SECTIONS, AS SHOWN IN TABLE 4.504.5.

4.504.5.1 DOCUMENTATION VERIFICATION OF COMPLIANCE WITH THIS SECTION SHALL BE PROVIDED AS REQUESTED BY THE ENFORCING AGENCY. DOCUMENTATION SHALL

- INCLUDE AT LEAST ONE OF THE FOLLOWING: 1. PRODUCT CERTIFICATIONS AND SPECIFICATIONS.
- 2. CHAIN OF CUSTODY CERTIFICATIONS. 3. PRODUCT LABELED AND INVOICED AS MEETING THE COMPOSITE WOOD PRODUCTS REGULATION (SEE CCR, TITLE 17, SECTION
- 93120. ET SEQ.) 4. EXTERIOR GRADE PRODUCTS MARKED AS MEETING THE PS-1 OR PS-2 STANDARDS OF THE ENGINEERED WOOD ASSOCIATION. THE AUSTRALIAN AS/NZS 2269, EUROPEAN 636 3S, AND CANADIAN CSA 0121, CSA 0151, CSA 0153 AND CSA 0325
- 5. OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY.

4.504 POLLUTANT CONTROL

4.504.1 COVERING OF DUCT OPENINGS AND PROTECTION OF MECHANICAL **EQUIPMENT DURING CONSTRUCTION** AT THE TIME OF ROUGH INSTALLATION. DURING STORAGE ON THE CONSTRUCTION SITE AND UNTIL FINAL STARTUP OF THE HEATING, COOLING AND VENTILATING EQUIPMENT, ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEETMETAL OR OTHER METHODS ACCEPTABLE TO THE

ENFORCING AGENCY TO REDUCE THE AMOUNT OF WATER, DUST AND

4.504.2 FINISH MATERIAL POLLUTANT CONTROL FINISH MATERIALS SHALL COMPLY WITH THIS SECTION.

DEBRIS, WHICH MAY ENTER THE SYSTEM.

4.504.2.1 ADHESIVES, SEALANTS AND CAULKS

ADHESIVES, SEALANTS AND CAULKS USED ON THE PROJECT SHALL MEET THE REQUIREMENTS OF THE FOLLOWING STANDARDS UNLESS MORE STRINGENT LOCAL OR REGIONAL AIR POLLUTION OR AIR QUALITY MANAGEMENT DISTRICT RULES APPLY:

- 1. ADHESIVES, ADHESIVE BONDING PRIMERS, ADHESIVE PRIMERS, SEALANTS, SEALANT PRIMERS, AND CAULKS SHALL COMPLY WITH LOCAL OR REGIONAL AIR POLLUTION CONTROL OR AIR QUALITY MANAGEMENT DISTRICT RULES WHERE APPLICABLE OR SCAQMD RULE 1168 VOC LIMITS, AS SHOWN IN TABLE 4.504.1 OR 4.504.2, AS APPLICABLE. SUCH PRODUCTS ALSO SHALL COMPLY WITH THE RULE 1168 PROHIBITION ON THE USE OF CERTAIN TOXIC COMPOUNDS (CHLOROFORM, ETHYLENE DICHLORIDE, METHYLENE CHLORIDE, PERCHLOROETHYLENE AND TRICHLOROETHYLENE), EXCEPT FOR AEROSOL PRODUCTS. AS
- SPECIFIED IN SUBSECTION 2 BELOW. 2. AEROSOL ADHESIVES, AND SMALLER UNIT SIZES OF ADHESIVES, AND SEALANT OR CAULKING COMPOUNDS (IN UNITS OF PRODUCT, LESS PACKAGING, WHICH DO NOT WEIGH MORE THAN 1 POUND AND DO NOT CONSIST OF MORE THAN 16 FLUID OUNCES) SHALL COMPLY WITH STATEWIDE VOC STANDARDS AND OTHER REQUIREMENTS, INCLUDING PROHIBITIONS ON USE OF CERTAIN TOXIC COMPOUNDS, OF CALIFORNIA CODE OF REGULATIONS, TITLE 17, COMMENCING WITH SECTION 94507.

4.504.2.2 PAINTS AND COATINGS

ARCHITECTURAL PAINTS AND COATINGS SHALL COMPLY WITH VOC LIMITS IN TABLE 1 OF THE ARB ARCHITECTURAL SUGGESTED CONTROL MEASURE, AS SHOWN IN TABLE 4.504.3, UNLESS MORE STRINGENT LOCAL LIMITS APPLY. THE VOC CONTENT LIMIT FOR COATINGS THAT DO NOT MEET THE DEFINITIONS FOR THE SPECIALTY COATINGS CATEGORIES LISTED IN TABLE 4.504.3 SHALL BE DETERMINED BY CLASSIFYING THE COATING AS A FLAT, NONFLAT OR NONFLAT-HIGH GLOSS COATING, BASED ON ITS GLOSS, AS DEFINED IN SUBSECTIONS 4.21, 4.36, AND 4.37 OF THE 2007 CALIFORNIA AIR RESOURCES BOARD. SUGGESTED CONTROL MEASURE. AND THE CORRESPONDING FLAT. NONFLAT OR NONFLAT-HIGH GLOSS VOC LIMIT IN TABLE 4.504.3 SHALL

4.504.2.3 AEROSOL PAINTS AND COATINGS

AEROSOL PAINTS AND COATINGS SHALL MEET THE PRODUCT-WEIGHTED MIR LIMITS FOR ROC IN SECTION 94522(A)(2) AND OTHER REQUIREMENTS, INCLUDING PROHIBITIONS ON USE OF CERTAIN TOXIC COMPOUNDS AND OZONE DEPLETING SUBSTANCES. IN SECTIONS 94522(E)(1) AND (F)(1) OF CALIFORNIA CODE OF REGULATIONS, TITLE 17, COMMENCING WITH SECTION 94520; AND IN AREAS UNDER THE JURISDICTION OF THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT ADDITIONALLY COMPLY WITH THE PERCENT VOC BY WEIGHT OF PRODUCT LIMITS OF REGULATION 8, RULE 49.

4.504.2.4 VERIFICATION

VERIFICATION OF COMPLIANCE WITH THIS SECTION SHALL BE PROVIDED AT THE REQUEST OF THE ENFORCING AGENCY. DOCUMENTATION MAY INCLUDE, BUT IS NOT LIMITED TO, THE FOLLOWING:

1. MANUFACTURER'S PRODUCT SPECIFICATION. 2. FIELD VERIFICATION OF ON-SITE PRODUCT CONTAINERS.

TABLE 4.504.1 - ADHESIVE VOC LIMIT

STRUCTURAL WOOD MEMBER ADHESIVE

SUBSTRATE SPECIFIC APPLICATIONS

POROUS MATERIAL (EXCEPT WOOD)

TOP AND TRIM ADHESIVES

METAL TO METAL

COATING CATEGORY

ZINC-RICH PRIMERS

ELAT COATINGS

PLASTIC FOAMS

ARCHITECTURAL APPLICATIONS	CURRENT VOC LIMIT
INDOOR CARPET ADHESIVES	50
CARPET PAD ADHESIVES	50
OUTDOOR CARPET ADHESIVES	150
WOOD FLOORING ADHESIVES	100
RUBBER FLOORING ADHESIVES	60
SUBFLOOR ADHESIVES	50
CERAMIC TILE ADHESIVES	65
VCT AND ASPHALT TILE ADHESIVES	50
DRYWALL AND PANEL ADHESIVES	50
COVE BASE ADHESIVES	50
MULTIPURPOSE CONSTRUCTION ADHESIVES	70
STRUCTURAL GLAZING ADHESIVES	100
SINGLE-PLY ROOF MEMBRANE ADHESIVES	250
OTHER ADHESIVES NOT SPECIFICALLY LISTED	50
SPECIALTY APPLICATIONS	CURRENT VOC LIMIT
PVC WELDING	510
CPVC WELDING	490
ABS WELDING	325
PLASTIC CEMENT WELDING	250
ADHESIVE PRIMER FOR PLASTIC	550
CONTACT ADHESIVE	80
SPECIAL PURPOSE CONTACT ADHESIVE	250

FIBERGLASS 1. IF AN ADHESIVE IS USED TO BOND DISSIMILAR SUBSTRATES TOGETHER, THE ADHESIVE WITH THE HIGHEST VOC CONTENT SHALL

CURRENT VOC LIMIT

CURRENT VOC LIMIT

340

2. FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THIS TABLE, SEE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1168.

SEALANTS	CURRENT VOC LIMIT
ARCHITECTURAL	250
MARINE DECK	760
NONMEMBRANE ROOF	300
ROADWAY	250
SINGLE-PLY ROOF MEMBRANE	450
OTHER	420
SEALANT PRIMERS	CURRENT VOC LIMIT
ARCHITECTURAL	
NONPOROUS	250
POROUS	250
MODIFIED BITUMINOUS	500
MARINE DECK	760

TABLE 4.504.3 - VOC CONTENT LIMITS FOR ARCHITECTURAL COATINGS^{2, 3}

FLAT COATINGS	50
NONFLAT COATINGS	100
NONFLAT-HIGH GLOSS COATINGS	150
SPECIALTY COATINGS	CURRENT VOC LIMIT
ALUMINUM ROOF COATINGS	400
BASEMENT SPECIALTY COATINGS	400
BITUMINOUS ROOF COATINGS	50
BITUMINOUS ROOF PRIMERS	350
BOND BREAKERS	350
CONCRETE CURING COMPOUNDS	350
CONCRETE/MASONRY SEALERS	100
DRIVEWAY SEALERS	50
DRY FOG COATINGS	150
FAUX FINISHING COATINGS	350
FIRE RESISTIVE COATINGS	350
FLOOR COATINGS	100
FORM-RELEASE COMPOUNDS	250
GRAPHIC ARTS COATINGS (SIGN PAINTS)	500
HIGH TEMPERATURE COATINGS	420
IDUSTRIAL MAINTENANCE COATINGS	250
LOW SOLIDS COATINGS ¹	120
MAGNESITE CEMENT COATINGS	450
MASTIC TEXTURE COATINGS	100
METALLIC PIGMENTED COATINGS	500
MULTICOLOR COATINGS	250
PRETREATMENT WASH PRIMERS	420
PRIMERS, SEALERS, AND UNDERCOATERS	100
REACTIVE PENETRATING SEALERS	350
RECYCLED COATINGS	250
ROOF COATINGS	50
RUST PREVENTATIVE COATINGS	250
SHELLACS	
CLEAR	730
OPAQUE	550
SPECIALTY PRIMERS, SEALERS AND UNDERCOATERS	100
STAINS	250
STONE CONSOLIDANTS	450
SWIMMING POOL COATINGS	340
TRAFFIC MARKING COATINGS	100
TUB AND TILE REFINISH COATINGS	420
WATERPROOFING MEMBRANES	250
WOOD COATINGS	275
WOOD PRESERVATIVES	350
ZINC DICH DDIMEDO	240

1. GRAMS OF VOC PER LITER OF COATING, INCLUDING WATER AND INCLUDING EXEMPT COMPOUNDS.

2.	THE SPECIFIED LIMITS REMAIN IN EFFECT UNLESS REVISED LIMITS ARE
	LISTED IN SUBSEQUENT COLUMNS IN THE TABLE
3.	VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE
	CALIFORNIA AIR RESOURCES BOARD, ARCHITECTURAL COATINGS
	SUGGESTED CONTROL MEASURE, FEBRUARY 1, 2008. MORE
	INFORMATION IS AVAILABLE FROM THE AIR RESOURCES BOARD.

TABLE 4.504.5 - FORMALDEHYDE LIMITS¹

(MAXIMUM FORMALDEHYDE EMISSIONS IN PARTS PER MILLION)

PRODUCT	CURRENT LIMIT
HARDWOOD PLYWOOD VENEER CORE	0.05
HARDWOOD PLYWOOD COMPOSITE CORE	0.05
PARTICLEBOARD	0.09
MEDIUM DENSITY FIBERBOARD	0.11
THIN MEDIUM DENSITY FIBERBOARD ²	0.13

1. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, AIR TOXICS CONTROL MEASURE FOR COMPOSITE WOOD AS TESTED IN ACCORDANCE WITH ASTM E1333. FOR ADDITIONAL INFORMATION, SEE

CALIFORNIA CODE OF REGULATIONS, TITLE 17, SECTIONS 93120

THROUGH 93120.12. 2. THIN MEDIUM DENSITY FIBERBOARD HAS A MAXIMUM THICKNESS OF 5/16 INCH (8MM).

4.505 INTERIOR MOISTURE CONTROL

BUILDINGS SHALL MEET OR EXCEED THE PROVISIONS OF THE CALIFORNIA BUILDING STANDARDS CODE.

4.505.2 CONCRETE SLAB FOUNDATIONS CONCRETE SLAB FOUNDATIONS REQUIRED TO HAVE A VAPOR RETARDER

BY THE CALIFORNIA BUILDING CODE CHAPTER 19 OR CONCRETE SLAB-ON-GROUND FLOORS REQUIRED TO HAVE A VAPOR RETARDER BY THE CALIFORNIA RESIDENTIAL CODE. CHAPTER 5. SHALL ALSO COMPLY WITH

4.505.2.1 CAPILLARY BREAK

- A CAPILLARY BREAK SHALL BE INSTALLED IN COMPLIANCE WITH AT LEAST ONE OF THE FOLLOWING: 1. A 4-INCH-THICK BASE OF 1/2 INCH OR LARGER CLEAN
 - AGGREGATE SHALL BE PROVIDED WITH A VAPOR RETARDER IN DIRECT CONTACT WITH CONCRETE AND A CONCRETE MIX DESIGN. WHICH WILL ADDRESS BLEEDING, SHRINKAGE, AND CURLING, SHALL BE USED. FOR ADDITIONAL INFORMATION, SEE AMERICAN CONCRETE INSTITUTE, ACI 302.2R-06.
- 2. OTHER EQUIVALENT METHODS APPROVED BY THE ENFORCING
- 3. A SLAB DESIGN SPECIFIED BY A LICENSED DESIGN PROFESSIONAL.

4.505.3 MOISTURE CONTENT OF BUILDING MATERIALS

BUILDING MATERIALS WITH VISIBLE SIGNS OF WATER DAMAGE SHALL NOT BE INSTALLED. WALL AND FLOOR FRAMING SHALL NOT BE ENCLOSED WHEN THE FRAMING MEMBERS EXCEED 19-PERCENT MOISTURE CONTENT. MOISTURE CONTENT SHALL BE VERIFIED IN COMPLIANCE WITH THE 1. MOISTURE CONTENT SHALL BE DETERMINED WITH EITHER A PROBE-

TYPE OR CONTACT-TYPE MOISTURE METER. EQUIVALENT MOISTURE VERIFICATION METHODS MAY BE APPROVED BY THE ENFORCING AGENCY AND SHALL SATISFY REQUIREMENTS FOUND IN SECTION 101.8 OF THIS CODE.

ACCEPTABLE TO THE ENFORCING AGENCY PROVIDED AT THE TIME

- 2. MOISTURE READINGS SHALL BE TAKEN AT A POINT 2 FEET TO 4 FEET FROM THE GRADE STAMPED END OF EACH PIECE TO BE VERIFIED. 3. AT LEAST THREE RANDOM MOISTURE READINGS SHALL BE PERFORMED ON WALL AND FLOOR FRAMING WITH DOCUMENTATION
- INSULATION PRODUCTS WHICH ARE VISIBLY WET OR HAVE A HIGH MOISTURE CONTENT SHALL BE REPLACED OR ALLOWED TO DRY PRIOR TO ENCLOSURE IN WALL OR FLOOR CAVITIES. WET-APPLIED INSULATION PRODUCTS SHALL FOLLOW THE MANUFACTURERS' DRYING RECOMMENDATIONS PRIOR TO ENCLOSURE

OF APPROVAL TO ENCLOSE THE WALL AND FLOOR FRAMING.

4.506 INDOOR AIR QUALITY AND EXHAUST

4.506.1 BATHROOM EXHAUST FANS EACH BATHROOM SHALL BE MECHANICALLY VENTILATED AND SHALL

- COMPLY WITH THE FOLLOWING: 1. FANS SHALL BE ENERGY STAR COMPLIANT AND BE DUCTED TO TERMINATE OUTSIDE THE BUILDING. 2. UNLESS FUNCTIONING AS A COMPONENT OF A WHOLE HOUSE VENTILATION SYSTEM, FANS MUST BE CONTROLLED BY A HUMIDITY
- a. HUMIDITY CONTROLS SHALL BE CAPABLE OF ADJUSTMENT BETWEEN A RELATIVE HUMIDITY RANGE OF ≤ 50 PERCENT TO A MAXIMUM OF 80 PERCENT. A HUMIDITY CONTROL MAY UTILIZE MANUAL OR AUTOMATIC MEANS OF ADJUSTMENT.

b. A HUMIDITY CONTROL MAY BE A SEPARATE COMPONENT TO THE

EXHAUST FAN AND IS NOT REQUIRED TO BE INTEGRAL (I.E.,

- 1. FOR THE PURPOSES OF THIS SECTION, A BATHROOM IS A ROOM WHICH CONTAINS A BATHTUB, SHOWER, OR TUB/ SHOWER
- 2. LIGHTING INTEGRAL TO BATHROOM EXHAUST FANS SHALL COMPLY WITH THE CALIFORNIA ENERGY CODE.

4.507 ENVIROMENTAL COMFORT

METHODS.

4.507.2 HEATING AND AIR-CONDITIONING SYSTEM DESIGN

- 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 J—2011 (RESIDENTIAL LOAD CALCULATION). ASHRAE HANDBOOKS OR OTHER EQUIVALENT DESIGN SOFTWARE
- 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.

ANSI/ACCA 3 MANUAL S—2014 (RESIDENTIAL EQUIPMENT

SELECTION) OR OTHER EQUIVALENT DESIGN SOFTWARE OR

EXCEPTION: USE OF ALTERNATE DESIGN TEMPERATURES NECESSARY TO

ENSURE THE SYSTEMS FUNCTION ARE ACCEPTABLE.

CHAPTER 7 - INSTALLER & SPECIAL INSPECTOR **QUALIFICATIONS**

702 QUALIFICATIONS

HVAC SYSTEM INSTALLERS SHALL BE TRAINED AND CERTIFIED IN THE PROPER INSTALLATION OF HVAC SYSTEMS INCLUDING DUCTS AND EQUIPMENT BY A NATIONALLY OR REGIONALLY RECOGNIZED TRAINING OR CERTIFICATION PROGRAM. UNCERTIFIED PERSONS MAY PERFORM HVAC INSTALLATIONS WHEN UNDER THE DIRECT SUPERVISION AND RESPONSIBILITY OF A PERSON TRAINED AND CERTIFIED TO INSTALL HVAC SYSTEMS OR CONTRACTOR LICENSED TO INSTALL HVAC SYSTEMS. EXAMPLES OF ACCEPTABLE HVAC TRAINING AND CERTIFICATION PROGRAMS INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING:

- 1. STATE CERTIFIED APPRENTICESHIP PROGRAMS. PUBLIC UTILITY TRAINING PROGRAMS. TRAINING PROGRAMS SPONSORED BY TRADE, LABOR OR
- STATEWIDE ENERGY CONSULTING OR VERIFICATION ORGANIZATIONS.
- 4. PROGRAMS SPONSORED BY MANUFACTURING ORGANIZATIONS. 5. OTHER PROGRAMS ACCEPTABLE TO THE ENFORCING AGENCY.

702.2 SPECIAL INSPECTION [HCD] WHEN REQUIRED BY THE ENFORCING AGENCY, THE OWNER OR THE

OR MORE SPECIAL INSPECTORS TO PROVIDE INSPECTION OR OTHER DUTIES NECESSARY TO SUBSTANTIATE COMPLIANCE WITH THIS CODE SPECIAL INSPECTORS SHALL DEMONSTRATE COMPETENCE TO THE SATISFACTION OF THE ENFORCING AGENCY FOR THE PARTICULAR TYPE OF INSPECTION OR TASK TO BE PERFORMED. IN ADDITION TO OTHER CERTIFICATIONS OR QUALIFICATIONS ACCEPTABLE TO THE ENFORCING AGENCY, THE FOLLOWING CERTIFICATIONS OR EDUCATION MAY BE CONSIDERED BY THE ENFORCING AGENCY WHEN EVALUATING THE

RESPONSIBLE ENTITY ACTING AS THE OWNER'S AGENT SHALL EMPLOY ONE

1. CERTIFICATION BY A NATIONAL OR REGIONAL GREEN BUILDING

QUALIFICATIONS OF A SPECIAL INSPECTOR:

PROGRAM OR STANDARD PUBLISHER. 2. CERTIFICATION BY A STATEWIDE ENERGY CONSULTING OR VERIFICATION ORGANIZATION, SUCH AS HERS RATERS, BUILDING

4. OTHER PROGRAMS ACCEPTABLE TO THE ENFORCING AGENCY.

- PERFORMANCE CONTRACTORS, AND HOME ENERGY AUDITORS. SUCCESSFUL COMPLETION OF A THIRD PARTY APPRENTICE TRAINING PROGRAM IN THE APPROPRIATE TRADE.
- SPECIAL INSPECTORS SHALL BE INDEPENDENT ENTITIES WITH NO
- FINANCIAL INTEREST IN THE MATERIALS OR THE PROJECT THEY ARE INSPECTING FOR COMPLIANCE WITH THIS CODE. 2. HERS RATERS ARE SPECIAL INSPECTORS CERTIFIED BY THE CALIFORNIA ENERGY COMMISSION (CEC) TO RATE HOMES IN CALIFORNIA ACCORDING TO THE HOME ENERGY RATING SYSTEM

IBSCI WHEN REQUIRED BY THE ENFORCING AGENCY. THE OWNER OR THE RESPONSIBLE ENTITY ACTING AS THE OWNER'S AGENT SHALL EMPLOY ONE OR MORE SPECIAL INSPECTORS TO PROVIDE INSPECTION OR OTHER DUTIES NECESSARY TO SUBSTANTIATE COMPLIANCE WITH THIS CODE. SPECIAL INSPECTORS SHALL DEMONSTRATE COMPETENCE TO THE SATISFACTION OF THE ENFORCING AGENCY FOR THE PARTICULAR TYPE OF INSPECTION OR TASK TO BE PERFORMED. IN ADDITION, THE SPECIAL INSPECTOR SHALL HAVE A CERTIFICATION FROM A RECOGNIZED STATE. NATIONAL OR INTERNATIONAL ASSOCIATION, AS DETERMINED BY THE LOCAL AGENCY. THE AREA OF CERTIFICATION SHALL BE CLOSELY RELATED TO THE PRIMARY JOB FUNCTION, AS DETERMINED BY THE LOCAL AGENCY.

SPECIAL INSPECTORS SHALL BE INDEPENDENT ENTITIES WITH NO FINANCIAL INTEREST IN THE MATERIALS OR THE PROJECT THEY ARE

APPROPRIATE SECTION OR IDENTIFIED APPLICABLE CHECKLIST.

INSPECTING FOR COMPLIANCE WITH THIS CODE. 703 VERIFICATIONS

703.1 DOCUMENTATION.

DOCUMENTATION USED TO SHOW COMPLIANCE WITH THIS CODE SHALL INCLUDE BUT IS NOT LIMITED TO, CONSTRUCTION DOCUMENTS, PLANS, SPECIFICATIONS, BUILDER OR INSTALLER CERTIFICATION, INSPECTION REPORTS, OR OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY WHICH DEMONSTRATE SUBSTANTIAL CONFORMANCE. WHEN SPECIFIC DOCUMENTATION OR SPECIAL INSPECTION IS NECESSARY TO VERIFY COMPLIANCE, THAT METHOD OF COMPLIANCE WILL BE SPECIFIED IN THE

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CONSULTANT

AGENCY

NO. REVISION PROJECT MANAGER DRAWN BY CHECKED BY

2371-02

PROJECT NUMBER

Product and System Specifications DuPont™ Tyvek® HomeWrap®

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

PART 1 - GENERAL

1.1 SECTION INCLUDES

- A. Weather barrier membrane (DuPont™ Tyvek® HomeWrap®)
- B. Seam Tape (DuPont™ Tyvek® Tape) C. Flashing (DuPont" FlexWrap", DuPont" FlexWrap" NF, DuPont" StraightFlash", DuPont"
- StraightFlash™ VF, and/or DuPont™ Thru-Wall Flashing)
- D. Fasteners (DuPont™ Tyvek® Wrap Caps)

1.2 REFERENCES

- A. ASTM International
- ASTM C920; Standard Specification for Elastomeric Joint Sealants
- 2. ASTM C1193; Standard Guide for Use of Joint Sealants
- 3. ASTM D882; Test Method for Tensile Properties of Thin Plastic Sheeting
- 4. ASTM D1117; Standard Guide for Evaluating Non-woven Fabrics
- ASTM E84; Test Method for Surface Burning Characteristics of Building Materials
- 6. ASTM E96; Test Method for Water Vapor Transmission of Materials 7. ASTM E1677; Specification for Air Retarder Material or System for Framed Building Walls
- ASTM E2178; Test Method for Air Permeance of Building Materials
- B. AATCC American Association of Textile Chemists and Colorists Test Method 127 Water Resistance: Hydrostatic Pressure Test
- C. TAPPI
- Test Method T-410; Grams of Paper and Paperboard (Weight per Unit Area)
- Test Method T-460; Air Resistance (Gurley Hill Method)

1.3 SUBMITTALS

- A. Product Data: Submit manufacturer current technical literature for each component.
- B. Samples: Weather Barrier membrane, minimum 8-1/2 inches by 11 inch.
- C. Quality Assurance Submittals
- 1. Manufacturer Instructions: Provide manufacturer's written installation instructions.

1.4 QUALITY ASSURANCE

- B. Cover horizontal sill by aligning DuPont™ FlexWrap™ or DuPont™ FlexWrap™ NF edge with inside edge of sill. Adhere to rough opening across sill and up jambs a minimum of 6 inches. Secure flashing tightly into corners by working in along the sill before adhering up the jambs.
- C. Fan DuPont™ FlexWrap™ or DuPont™ FlexWrap™ NF at bottom corners onto face of wall. Firmly press in place. Mechanically fasten fanned edges. Mechanical fastening is not required for DuPont™ FlexWrap™
- D. On exterior, apply continuous bead of sealant to wall or backside of window mounting flange across jambs and head. Do not apply sealant across sill.
- E. Install window according to manufacturer's instructions.
- F. Apply 4-inch wide strips of DuPont™ StraightFlash™ at jambs overlapping entire mounting flange. Extend jamb flashing 1-inch above top of rough opening and below bottom edge of sill flashing.
- G. Apply 4-inch wide strip of DuPont™ StraightFlash™ as head flashing overlapping the mounting flange. Head flashing should extend beyond outside edges of both jamb flashings.
- H. Position weather barrier head flap across head flashing. Adhere using 4-inch wide DuPont™
- StraightFlash™ over the 45-degree seams.
- Tape head flap in accordance with manufacturer recommendations.
- J. On interior, install backer rod in joint between frame of window and flashed rough framing. Apply sealant around entire window to create air seal. Apply sealant in accordance with sealant manufacturer's instructions and ASTM C1193.

3.8 THRU-WALL FLASHING INSTALLATION

- A. Apply primer per manufacturer's written instructions.
- B. Install preformed corners and end dams bedded in sealant in appropriate locations along wall. C. Starting at a corner, remove release sheet and apply membrane to primed surfaces in lengths of 8 to 10
- D. Extend membrane through wall and leave ¼ inch minimum exposed to form drip edge.
- E. Roll flashing into place. Ensure continuous and direct contact with substrate.
- F. Lap ends and overlap preformed corners 4 inches minimum. Seal all laps with sealant. Trim exterior edge of membrane 1-inch and secure metal drip edge per manufacturer's written instructions.
- H. Terminate membrane on vertical wall. [Terminate into reglet, counterflashing or with termination bar.] Apply sealant bead at each termination.

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

- Installer shall have experience with installation of similar weather barrier assemblies under similar
- 2. Installation shall be in accordance with manufacturer's installation guidelines and recommendations.
- 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.

2.1 MANUFACTURER

PART 2 - PRODUCTS

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:
- Air Penetration: <.004 cfm/ft² at 1.57 psf, when tested in accordance with ASTM E2178. Type I per ASTM E1677.
- Water Vapor Transmission: 56 perms, when tested in accordance with ASTM E96-05, Method A.
- Water Penetration Resistance: 250 cm when tested in accordance with AATCC Test Method 127.
- Basis Weight: 1.8 oz/yd², when tested in accordance with TAPPI Test Method T-410.
- Air Resistance: 1200 seconds, when tested in accordance with TAPPI Test Method T-460.
- Tensile Strength: 30/30 lbs/in., when tested in accordance with ASTM D882.
- 7. Tear Resistance: 8/6 lbs, when tested in accordance with ASTM D1117.
- 8. Surface Burning Characteristics: Class A, when tested in accordance with ASTM E84. Flame Spread: 15, Smoke Developed: 15

2.3 ACCESSORIES

Secure weather barrier flap with fasteners.

3.12 PROTECTION

A. Protect installed weather barrier from damage.

END OF SECTION

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

3.1 EXAMINATION

A. Seam Tape: [2] [or] [3] inch wide, DuPont™ Tyvek® Tape as distributed by DuPont Building Innovations.

2. Provide sealants that comply with ASTM C 920, elastomeric polymer sealant to maintain watertight

Wood Framed Construction: Provide flashing manufacturer recommended primer to assist in

DuPont™ FlexWrap™, as distributed by DuPont: flexible membrane flashing materials for window

DuPont™ FlexWrap™ NF, as distributed by DuPont: flexible membrane flashing materials for window

DuPont™ StraightFlash™, as distributed by DuPont: straight flashing membrane materials for flashing

fasteners, or 1-inch plastic cap staples with leg length sufficient to achieve a minimum penetration

DuPont™ Tyvek® Wrap Caps, as distributed by DuPont: #4 nails with large 1-inch plastic cap

of 5/8-inch into the wood stud.

a. DuPont™ Residential Sealant

a. Liquid Nails® LN-109

c. 3M High Strength 90

a. 3M High Strength 90

e ITW TACC Sta' Put SPH

openings and penetrations.

openings and penetrations.

b. Denso Butyl Spray

d. Permagrip 105

b. Denso Butyl Liquid

b. DuPont™ Commercial Sealant

Sealants recommended by the weather barrier manufacturer.

Provide adhesive recommended by weather barrier manufacturer.

e. Adhesives recommend by the weather barrier manufacturer.

adhesion between substrate and flashing.

f. Primers recommended by the flashing manufacturer

windows and doors and sealing penetrations, masonry ties, etc.

C. Sealants

D. Adhesive:

2. Products:

d. SIA 655

Products:

F. Flashing

PART 3 - EXECUTION

c. SIA 655

conditions.

Products:

A. Verify substrate and surface conditions are in accordance with weather barrier manufacturer recommended tolerances prior to installation of weather barrier and accessories.

3.2 INSTALLATION – WEATHER BARRIER

- A. Install weather barrier over exterior face of exterior wall substrate in accordance with manufacturer
- B. Start weather barrier installation at a building corner, leaving 6-12 inches of weather barrier extended
- beyond corner to overlap.
- C. Install weather barrier in a horizontal manner starting at the lower portion of the wall surface. Maintain weather barrier plumb and level.
- D. Extend bottom roll edge over sill plate interface 2" to 3" minimum. Seal weather barrier with sealant or tape. Shingle weather barrier over back edge of thru-wall flashings and seal weather barrier with sealant
- or tape. Ensure weeps are not blocked. E. Subsequent layers shall overlap lower layers a minimum of 6 inches horizontally in a shingling manner.

weather barrier manufacturer recommended fasteners, spaced 12 -18 inches vertically on center

- F. Window and Door Openings: Extend weather barrier completely over openings.
- G. Weather Barrier Attachment: Wood Frame Construction: Attach weather barrier to study through exterior sheathing. Secure using
- along stud line, and 24 inch on center, maximum horizontally. H. Apply 4 inch by 7 inch piece of DuPont™ StraightFlash™ or weather barrier manufacturer approved alternate to weather barrier membrane prior to the installation cladding anchors.

3.3 SEAMING

- A. Seal seams of weather barrier with seam tape at all vertical and horizontal overlapping seams.
- B. Seal any tears or cuts as recommended by weather barrier manufacturer.

3.4 OPENING PREPARATION (for use with flanged windows)

- A. Cut weather barrier in an "I-cut" pattern. A modified I-cut is also acceptable.
- Cut weather barrier horizontally along the bottom and top of the window opening. 2. From the top center of the window opening, cut weather barrier vertically down to the sill
- Fold side and bottom weather barrier flaps into window opening and fasten.

B. Cut a head flap at 45-degree angle in the weather barrier membrane at window head to expose 8 inches of sheathing. Temporarily secure weather barrier membrane flap away from sheathing with tape.

3.5 FLASHING

A. Cut [7-inch] [9-inch] wide DuPont™ FlexWrap™ or DuPont™ FlexWrap™ NF a minimum of 12 inches longer than width of sill rough opening. Apply primer as recommended by the manufacturer.





AGENCY

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NO. REVISION

2371-02

SECTION 08 53 13 VINYL WINDOWS

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes: Horizontal Sliding windows
 - Single Hung windows
 - Picture windows
 - Glazing Accessories

1.2 SUBMITTALS

- A. Reference Section 01 33 00 Submittal Procedure; submit following items:
 - Product Data: Submit Milgard product data.
 - 2. Shop Drawings: Include window schedule, elevations, sections, details, & multiple-window assembly details. Include head, sill & jamb conditions; operable parts & direction/handing; and special mullion reinforcement details.
 - 3. Samples: Submit selection samples for verification, include the following:
 - 3.1. Exterior Color: Minimum 1x4 color chips on fiberglass substrate: TBD
- Glass, showing specified tint color. TBD B. Quality Assurance/Control Submittals:
- 1. Qualifications: Proof of Manufacturer's qualifications.
- 2. U-Factor and Structural Rating charts required for NFRC and AAMA labeling requirements. 3. Installation Instructions: AAMA 2400, ("Mounting Flange Installation") or AAMA 2410 ("Flush Fin Installation").
- C. Closeout Submittals: Reference Section 01 78 00 Submit following items:
- Temporary window labels to identify windows that labels were applied to.
- Owner's Manual/Maintenance Instructions.
- Special Warranties.

1.3 QUALITY ASSURANCE

- A. Overall Standards: Comply with ANSI/AAMA/101/I.S.2, except where noted herein.
- B. Manufacturer Qualifications:
- Minimum 10 years experience in producing vinyl windows. Member AAMA & NFRC.
- C. Regulatory Requirements and Approvals:
- D. Certifications for Insulated Glass Units:
- 1. Insulated glass units are certified to ASTM E2188/E2190 per the Associated Laboratories Incorporated (ALI) guidelines.
- E. AAMA: Windows shall be Gold Label certified with label attached to frame per AAMA requirements.
 - 4. Gas Filled: (Specify)
 - a. Argon
 - b. None
 - Glass Thickness: (Specify) a. Per Manufacturer's Specifications
 - b. Special: Per Manufacturer's Approval
 - 3/32", 1/8", 3/16", 1/4", 7/32" Laminate, Other

2.7 GRIDS/GRILLES/MUNTINS: None

2.8 INSECT SCREENS: Provide tight fitting screen (with hardware) for operating windows

- Cambered formed aluminum with rigid plastic corner keys. B. Screen Mesh:
- Charcoal colored fiberglass mesh.

2.9 FABRICATION

- A. Fabricate frames and sash with mitered and fusion welded corners and joints.
- B. Trim and finish corners and welds to match adjacent surfaces.
- Provide concealed metal reinforcements in sash frame for attachment of lock mechanism.
- D. Factory interior glaze (except Double Hung and Double Slider) with snap-on mitered PVC glazing stops matching bevels on the sash and frame. Insulated glass units shall be reglazable without dismantling sash framing.
 - Note: Field glazing is required for large window units (over 40 sq. ft).

2.10 FINISH

- A. Frame and Sash Color:
- 1. Exterior: Match Existing Interior: White.
- B. Hardware:
- Color: Match existing
- C. Screen Frame Color:
- Matched to exterior frame color

2.11 SOURCE QUALITY CONTROL:

A. Inspect windows in accordance with Manufacturer's Quality Control Program as required by AAMA Gold Label Certification.

PART 3- EXECUTION

3.1 EXAMINATION

Examine openings in which windows will be installed.

F. NFRC: Windows shall be NFRC certified with temporary U-factor label applied to glass and an NFRC tab added to permanent AAMA frame label.

Name: Peggy Millar

2.2 MANUFACTURED UNITS

2.3 MATERIALS

Glazing

B. Weatherstripping:

2.4 SYSTEM DESCRIPTION

3. Accessories

Telephone: 805 387 5090

E-mail: peggymillar@milgard.com

C. Substitutions: Reference Section 01 25 13 - Product Substitution Procedures

A. Proprietary Products: Tubular Extruded Poly Vinyl Chloride (PVC) Windows

A. Integral color PVC compound containing impact-resistant solid plasticizer, titanium dioxide UV

A. General Performance Requirements: Products and systems provided must be manufactured,

B. Structural Requirements: Products and systems provided must be capable of withstanding wind

loads based on testing units representative of those indicated for Project that pass AAMA/NWWDA

Design Wind Loads: Determine design wind loads, according to ASCE, Section 6, applicable

to Product from basic wind speeds (MPH) at 33 feet above grade, based upon mean roof

Comply with ANSI/AAMA/NWWDA 101/I.S.2, except as noted herein.

B. Window Series: Milgard Style Line® Series

Style Line* Series Windows

inhibitor, and surface and color stabilizers.

Vinyl compression bulb seal

Performance Class:

Performance Grade:

U-Factor (NFRC 100): .34

Substitutions: No substitutions permitted.

fabricated, and installed to the following performance criteria:

SHGC – Solar Heat Gain Coefficient (NFRC 200): .29

STC – Sound Transmission Class (ASTM E90):

heights indicated on Elevations/Drawings

d. Wind Load Requirement: 1609.1.1.1

a. Basic Wind Speed: 90mph

b. Importance Factor: 1

c. Exposure Category: B

101/I.S.2/NAFS, Uniform Structural Load Test:

OITC – Outdoor-Indoor Transmission Class (ASTM E90):

1.4 DELIVERY, STORAGE and HANDLING

- A. General: Reference Section 01 66 00 Product Storage and Handling Requirements.
- Comply with Manufacturer's/Dealer's ordering instructions and lead time requirements to avoid
- C. Delivery: Deliver materials in Manufacturer's standard packaging for protection of product. D. Storage & Protection: Store products away from exposure to environmental conditions that may be
- E. Store materials off ground in an upright position. Provide cover from weather and construction
- F. Follow Manufacturer's instructions on label applied to units.

1.5 WARRANTY

- A. Residential Special Warranty: (Owner Occupied Single Family Residential)
 - Full Lifetime Warranty to original homeowner.
 - 2. Transferability:
 - Permit unlimited transfer of ownership in first 10 years.
 - b. Upon first transfer of ownership, warranty period shall become ten years from date of original purchase.
 - c. Guarantee windows against defects in materials and workmanship including costs for replacement parts and labor.
- 3. Submit, for Owner's acceptance, Manufacturer's Full Lifetime Warranty document.
- Residential Special Warranty: (Owner Occupied Multi-Family Residential)
- 10 Year Multi-Family Limited Warranty.
- C. Commercial Warranty:
- 10 Year Warranty.
- 2. Guarantee windows against defects in materials and workmanship including costs for replacement parts and labor.

Part 2 - PRODUCTS

2.1 MANUFACTURER

A. Products supplied by the following manufacturer:

Milgard Manufacturing, Inc. 1010 54th Avenue East Tacoma, WA 98424 (800)-Milgard (645-4273)

milgard.com

Manufacturer's Representative:

- 1. Verify that framing complies with AAMA 2400 (Mounting Flange Installation) & AAMA 2410
- 2. Verify that fasteners in framed walls are fully driven and will not interfere with window
- B. Coordinate with responsible entity to correct unsatisfactory conditions. C. Commencement of work by installer is acceptance of substrate conditions.

3.2 INSTALLATION

- A. Install windows in framed walls in accordance with AAMA 2400 ("Mounting Flange Installation") and/or AAMA 2410 ("Flush Fin Installation").
- Do not remove temporary labels.
- C. Install insect screens on operable windows.

(Flush Fin Installation).

Hold Screens: [Please coordinate with local supplier.]

3.3 CLEANING AND FINISHING

- Reference Section 01 74 00 Cleaning and Waste Management. Remove temporary labels and retain for Closeout Submittals.
- Clean soiled painted surfaces and glass using a mild detergent and warm water solution with soft, clean cloths.

END OF SECTION

2.5 WINDOW TYPES

- A. Horizontal Slider [6110 Series, 1-3/8" nail fin setback] [6130 Series, 1" nail fin setback] [6130J
- Series, J-channel] [6170 Series, Z-bar]
- Frame: 2-7/8" minimum depth. Multi-chambered vinyl profile.
- Sash: 1-3/16" minimum depth. Multi-chambered vinyl profile. 3. Structural Class:
 - a. 71-1/2" X 59-1/2" and smaller: HS-LC25.
- Larger than 71-1/2" x 59-1/2": HS-R20. Hardware:
- Positive action locking mechanism.
- b. Nylon rollers, extruded vinyl snap-on monorail roller track.
- Weatherstripping: Fin seal polypropylene pile.
- B. Single Hung [6210 Series, 1-3/8" nail fin setback] [6230 Series, 1" nail fin setback] [6230J Series, Jchannel] [6270 Series, Z-bar]
- Frame: 2-7/8" minimum depth. Multi-chambered vinyl profile.
- Sash: 1-3/16" minimum depth. Multi-chambered vinyl profile. Structural Class: H-LC30
- Hardware:
- Positive action locking mechanism.
- b. Concealed block and tackle balancer. Weatherstripping: Fin seal polypropylene pile.
- C. Picture Window [6340 Series, 1-3/8" nail fin setback] [6330 Series, 1" nail fin setback] [6330J
- Series, J-channel] [6370 Series, Z-bar] 1. Frame: 2-7/8" minimum depth. Multi-chambered vinyl profile.
- Structural Class: F-C40.

2.6 GLAZING

- A. Insulated Glass Units: ASTM E 774, Class A
- Glazing Type: Dual (Specify)
- a. SunCoat® Low-E/Clear
- b. SunCoatMAX® Low-E/Clear
- c. [Tinted] [Obscure-several types] [Specialty] Per Approval 2. Overall IG Unit Thickness:
- a. 3/4".
- Spacer Type: (Specify)
 - a. Tin-plated steel spacer
 - Stainless steel spacer c. Foam spacer

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AGENCY

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> 2371-02

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 Lock Stile panel(s), glass inserts, transom, door frame, hinges, weather

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. rabbet jamb design. Hinge jamb(s), strike jamb, head jamb, and Mounting surface for latching hardware to be reinforced with mullion(s) shall be machined to accept a kerf applied weather solid internal blocking. Hinge preparations are to be placed at seal. Hinge jamb preparations are to be placed at MASONITE MASONITE specifications and are to be machined for standard specifications and are to be machined for standard weight full weight full mortise 4" butt hinges. Latch preparations are to be mortise 4" butt hinges. Strike jamb preparations are to be placed placed at MASONITE specifications. Face bore(s) for cylindrical at MASONITE specifications and are to be machined for full lip lock and deadbolt are to be 2-1/8" diameter at 2-3/4" or 2-3/8" cylindrical strike plate. Inswing or bumper outswing threshold backset and 5-1/2" on center (5-1/2" or 10-1/2" on 8'0" panels). shall be high-dam design. Low profile threshold shall be required

2.2 Sidelite Panel:

2.2.1 Belleville® Wood-Grain Textured and Belleville® Smooth and bottom flush bolts that securely strike into the head jamb fiberglass sidelites shall be fabricated using 6-piece construction and threshold. that includes fiberglass reinforced facings, MDF or wood stiles and rails. Door facings are to be bonded to stiles and rails forming 2.6 Hinges: (3) standard weight full mortise 4" butt hinges are a structural attachment. Insulated core to be poured-in-place required on doors 7°0" height or smaller & (4) on doors greater polyurethane or expanded polystyrene foam forming a secure than 7'0" attachment to all door components.

plastic, cellular vinyl or extruded aluminum.

2.4 Transom: Specialty insulated transoms shall be fabricated operable door panel(s). with 1/2" double pane or 1" triple pane glass mounted to the

framing system as a non-operable panel. Our continuing program of product improvement makes specifications, design and product detail subject to change without notice.

© 2018 Masonite International Corporation. All Rights Reserved. Wood Top Rail - Finger-Jointed Or Wood Hinge Stile Polyurethane Core

Reinforced Facings. Wood-Grain Textured Shown (Also Available In

Rot Resistant Bottom Rail

2.5 Door Frame: Wood frames shall be fabricated as a single for handicap accessible openings. Double door units shall include a t-astragal attached to the "passive" panel with top

Blocking

2.3 Glass Insert: Specialty™ insulated glass inserts shall be fabricated in 1/2" double pane or 1" triple pane construction.

2.7 Weather Seal: Door frame shall be fabricated featuring a vinyl wrapped foam filled compression design that is kerf installed. Correct code shall be installed. Glass frame may be "lip lite" or "flush glazed" design in rigid installed. Corner seals shall be installed to the rabbet section of bottom sweep shall be sealed and securely attached to the

MASONITE. Open to extraordinary.

Belleville' Wood-Grain Textured & Belleville' Smooth

Part 3: DELIVERY, STORAGE & HANDLING

building or shelter at a constant temperature. Do not store in available for a wide selection of door styles and configurations damp areas or freshly plastered buildings. Place units on wood are listed under the National Accreditation & Management blocks at least 2" high to prevent moisture at threshold and/or Institute (NAMI). Belleville Wood-Grain Textured and Belleville possible damage. Do not place in non-vented plastic or canvas Smooth fiberglass door unit at +70.0 / -70.0 maximum rating.

Part 4: EXECUTION

the intended functions.

4.2 Installation: Remove protective packaging just prior to for unit specific thermal information). installation. Installer shall be experienced in performing work 5.3 Acoustical Performance: Unit scheduled for installation in required and shall be specialized in the installation of work openings requiring a specified noise control rating shall be clearly similar to that required for this project. Comply with noted when product is ordered. Believille Wood-Grain Textured manufacturer's product data, including product technical and Belleville Smooth fiberglass sound transmission bulletins, product catalog installation instructions and product classification (STC) rating is 22 for a door without a glass insert. packaging instructions for installation.

4.3 Flashing, Insulating & Trimming: Exterior of installed unit information). shall be flashed, trimmed & sealed to prevent air infiltration 5,4 General Performance: All door systems are designed to transmission.

accordance with manufacturer's specifications to protect against accordance with ANSI A151.1 / level C. 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 6.1 Manufacturer warrants the panel to be free of manufacturing protective packaging was removed and/or the installation was defects in material and workmanship for the lifetime of the panel. performed. Conduct periodic inspections of all coated surfaces Please check with manufacturer or distributor for current warranty to insure that door components are not exposed. Inspections terms and conditions. should occur at least once a year. Reseal the surface as needed.

Fiberglass Entry Doors

Part 5: BUILDING CODE & REGULATORY COMPLIANCE

3.1 Delivery: Reasonable care shall be exercised during shipping 5.1 Structural Performance & Impact Rating: Unit scheduled for and handling in keeping with the decorative nature of product. installation in openings requiring compliance with national, state 3.2 Storage & Protection: Store upright in a dry, well ventilated noted when product is ordered. Design pressure (DP) ratings are or local wind load and/or missile impact resistance shall be clearly (See structural performance data for unit specific DP/impact information).

5.2 Thermal Performance: Unit Scheduled for installations in openings requiring compliance with national, state, or local thermal resistance and/or solar heat gain shall be clearly noted 4.1 Examination: Site verification of substrate conditions, which when product is ordered. U-Value & SHGC ratings in accordance have been previously completed, are acceptable for the product with the International Energy Conservation Code (IECC) and/or installation instructions in accordance with manufacturer's the National Fenestration Rating Council (NFRC) are available for specifications. Verify that door frame openings are constructed a wide selection of door styles. ENERGY STAR compliance / plumb, true and level before beginning installation process. labeling is available for various door styles. Belleville Wood-Grain Select fasteners of adequate type, number and quality to perform Textured and Belleville Smooth fiberglass at U-value of 0.17 & SHGC of 0.37 minimum rating. (See thermal performance data

(See acoustical performance data for unit specific acoustical

and/or water penetration. Interior of installed unit shall be comply with water penetration guidelines in accordance with insulated & trimmed to prevent thermal and/or acoustical ASTM E331 and/or Florida Building Code TAS202; air infiltration guidelines in accordance with ASTM E283 and/or Florida Building 4.4 Finishes: Various types of materials are used in the construction of the door system; each shall be sealed in

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Architectural **Door Accessories**

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The global leader in door opening solutions

Product Test

Ratings:

See Product Testing

section for more

nformation.

AM88_

Adhesive Gaskets

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

> SiliconSeal Antimicrobial Gasketing BL (Black), CL (Clear), D (Dark Brown), W (White),

Pemko Product Reference Tech-Spec

1/2° (12.7 mm) HEIGHT: 1/4* (6.4 mm) Estimated per foot: 0.08 lbs

LENGTHS: 17',18', 20', 21', 25', 30', 510'

ANSI NUMBER: 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

• 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 UL10B 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

ASSA ABLOY

Section 8220.1

leader in door opening solutions, dedicated to satisfying end-user needs for security, safety and convenience

ASSA ABLOY is the global

ASSA ABLOY

Section 8220.2

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ASSA ABLOY

MATERIAL SAFETY / FIRE HAZARDS

Per OSHA Regulations (Standards – 29 CFR) this Pemko item is considered an "article" as described in section 1910.1200 paragraph (c), meaning that it is a manufactured item other than a fluid and is not a hazard. To help our customers we are providing additional information in this section to cover relevant topics found on Safety Data Sheets (SDS) but not found elsewhere in this document.

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Aluminum alloy is a non-combustible material. Solid aluminum does not present a fire hazard.

FIRST AID MEASURES

SPILL PROCEDURES

Under normal conditions this item presents no small parts and so this item cannot be inhaled or swallowed and has no adverse reaction when coming in contact with skin. Observe good industrial hygiene after installation. Note to physician: treat symptomatically and supportively

FIREFIGHTING MEASURES

As in any fire, prevent human exposure to fire, smoke, fumes, or products of combustion. Evacuate non-essential personnel from the fire area. Firefighters should wear face mask with self-contained breathing apparatus (SCBA) and impervious protective clothing. In case of aluminum fire, use class D dry powder to extinguish. DO NOT USE water or halogenated extinguishing media. Hazardous combustion products: none.

Sweep up any off-cuts from product and store in a suitable container for disposal HANDLING, STORAGE, AND DISPOSAL

There are no specific handling instructions. Always store at room temperature and keep away from heat sources. When disposing, if

possible, recycle the item and its packaging. Otherwise disposal should be in accordance with local, state, or federal legislation. Bury in an authorized landfill site or incinerate under approved controlled conditions.

There are no effects under normal conditions of use. Observe good industrial hygiene.

There is no toxicity hazard under normal conditions of use

HEALTH HAZARD

This product may contain hazardous ingredients; harmful effects are unlikely under normal conditions.

CARE AND MAINTENANCE

Pemko's aluminum products and solid gasket products can be cleaned with a mild soap with warm water. A clean non-abrasive cloth should be used to clean the surface of these products. For removing grease, sealant, or other minimal adhesives a mild solvent such as mineral spirits may be used; then clean with mild soap mixed with warm water. To dry, either allow to air dry or wipe dry with a chamois, squeegee, or lint-free cloth.

For sponge gasket and weatherstrip products, wipe with a damp cloth. Do not use mineral spirits or other chemical as this may cause the plastic to "melt" or deteriorate. To dry, either allow to air dry or wipe dry with a chamois, squeegee, or lint-free cloth. The use of strong solvents or cleaner concentrations may cause damage to the finish surface and isn't recommended.

MAINTENANCE

Pemko products are generally low-maintenance and require nothing more than general cleaning. Should anything outside of "general cleaning" arise, please consult Pemko Customer Service.

If you have any questions, or if you have a situation outside this scope, please contact Pemko Customer Service.

www.pemko.com

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AGENCY

AIS DATE NO. REVISION \ PLAN CHECK 05/26/23

2371-02

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 10B 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].

C. Shop Drawings: Provide drawings indicating required component locations, interface with adjacent materials,

- 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

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

installation, anchorage, fastening and similar information.

- Offset: [Specify offset.].
- Manufacturer Model Number: [Specify manufacturer model number.].
- 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.]. Pemkote Skid Resistant Surface:
- Coating: Proprietary nickel aluminum composite alloy skid resistant surface.
- Manufacturer Model Number: " AK" .
- Recycled Rubber Ramp Thresholds:
 - Material: Recycled rubber from tires.
- Width: [Specify width.]. Offset: [Specify offset.].
- Manufacturer Model Number: [Specify manufacturer model number.]. Fire Retardant Rubber Ramp:
- Material: Extruded styrene butadiene rubber and fire retardant material.
- b. Width: [Specify width.].
- Offset: [Specify offset.]. Manufacturer Model Number: [Specify manufacturer model number.].
- 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
 - Certificates: Submit manufacturer' s certificate that products meet or exceed specified
- 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

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

- [Code agency name]. a. [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.

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.

END OF SECTION

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.].

Threshold Stop Strips:

- 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.].
- 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:
- a. 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].

- Width: [Specify width.].
- Seal: [Pemko ThermoSeal] [Sponge silicone] [Sponge neoprene] [Vinyl] [Pile].
- Manufacturer Model Number: [Specify manufacturer model number.].
- 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.].
- 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].
- Manufacturer Model Number: [Specify manufacturer model number.].
- 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.].
- 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.].
- 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.].

- 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.]. 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

2371-02

2

NO. REVISION

SECTION 08710 DOOR HARDWARE (DOOR BOTTOMS)

PART 1 GENERAL

1.01 SUMMARY

A. Section Includes: Door Bottoms.

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. ASTM International:

- ASTM E90 Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements.
- ASTM E1408 Standard Test Method for Laboratory Measurement of the Sound Transmission
- Loss of Door Panels and Door Systems. ASTM E2074 Standard Test Method for Fire Tests of Door Assemblies, Including Positive
- Pressure Testing of Side-Hinged and Pivoted Swinging Door Assemblies. B. American National Standards Institute/Builders Hardware Manufacturers Association (ANSI/BHMA):
 - ANSI/BHMA A156.18: Materials and Finishes.
- ANSI/BHMA A156.22 Door Gasketing Systems.
- C. American National Standards Institute/Steel Door Institute (ANSI/SDI):
- ANSI A250.8/SDI-100 Recommended Specifications for Standard Steel Doors and Frames. D. American National Standards Institute/Window and Door Manufacturers Association (ANSI/WDMA):
- ANSI/WDMA I.S.1-A Architectural Wood Flush Doors.
- E. Federal Government:
- (ADA), Accessibility Guidelines for Buildings and Facilities (ADAAG), 1992. Federal Standard FED-STD-795-1988 (Revised 1989) Uniform Federal Accessibility Standards.

U.S. Architectural & Transportation Barriers Compliance Board. Americans with Disabilities Act

- F. Underwriters Laboratories, Inc. (UL):
- UL 10B Fire Tests of Door Assemblies.
- UL 10C Fire Tests of Door Assemblies.
- UL 410 Slip Resistance of Floor Surface Materials.
- G. 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. H. British Standards (BS):

BS 476 Fire Tests on Building Materials and Structures.

I. State Standards: California Title 24, Part 2.

J. National Fire Protection Association (NFPA):

NFPA 105 Recommended Practice for the Installation of Smoke-Control Door

3.03 PREPARATION

A. Wood Door Preparation:

- Comply with ANSI/WDMA I.S.1-A.
- Comply with: [Specify standard or requirements.]. B. Steel Door and Frame Preparation:

- Drill and tap doors and frames for hardware per manufacturer's installation
- Comply with ANSI A250.8/SDI-100.
- Comply with: Manufacturer' installation instructions.

3.04 INSTALLATION

- A. Mounting Location: Comply with the following requirements, unless otherwise indicated:
 - Steel Doors and Frames:
 - Comply with ANSI A250.8/SDI-100.
 - Ensure doors and frames are properly sized, plumb and square.
 - Comply with: Manufacturer' installation instructions. Wood Doors:
 - Comply with ANSI/WDMA I.S.1-A.
 - Ensure doors and frames are properly sized, plumb and square.
 - Comply with: Manufacturer installation instructions.
- 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. Thresholds: Set thresholds for exterior and acoustical doors in full bed of sealant.

3.05 ADJUSTING

- A. Perform adjustments required to ensure that door bottoms function in compliance with manufacturer's
- performance criteria prior to acceptance by Owner.
- Adjust door control devices to compensate for final operation of HVAC system and to comply with accessiblity requirements.

3.06 CLEANING

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

3.07 PROTECTION

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

END OF SECTION

1.03 SYSTEM DESCRIPTION

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

- B. Delivery: Deliver materials in manufacturer's original, unopened, undamaged containers with identification
 - For automatic door bottoms, provide components with an aluminum case which surrounds a movable drop bar seal, actuated by a plunger which contacts the jamb as door is closing, forcing
 - drop bar seal down against floor or threshold. Acoustical Performance (ASTM E90, ASTM E1408): [Specify required STC or other acoustical
 - performance criteria.]. Smoke, Air Leakage: Recommended practice per NFPA 105.

Provide performance obtained from test procedures [UL 10B] [UL 10C] [UBC 7-2] [BS 476]. 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 mnufacturer's product data and installation instructions.
- C. Shop Drawings: Provide drawings indicating required component locations, installation interface with adjacent materials, anchorage, fastening and similar information.
- 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
 - Certificates: Submit manufacturer's certificate that products meet or exceed specified requirements.

F. Closeout Submittals: Submit the following:

Warranty documents specified herein.

1.05 QUALITY ASSURANCE

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

- B. Regulatory Requirements and Approvals: [Specify applicable requirements of regulatory agencies.]. [Code agency name].
- a. [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 labes intact.
- C. Storage and Protection: Store materials protected from exposure to harmful environmental conditions 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: 3 years against defects in materials or workmanship, beginning with Date of substantial completion.

PART 2 PRODUCTS 2.01 DOOR BOTTOMS

- Manufacturer: Pemko Manufacturing Company.
 - Contact: PO Box 3780, 4226 Transport Street, Ventura, CA 93003; Telephone: (800)
 - (805) 642-2600; Fax: (805) 642-4109; E-mail: pemkosales@pemko.com; website: www.pemko.com. Proprietary Products/Systems: Door Bottoms, including the following:
 - mortise model]
 - Material: Extruded tempered aluminum 6063-T6. Finish (ANSI/BHMA 156.18): [Clear anodized aluminum] [Dark bronze anodized a aluminum] [Bright dip gold anodized aluminum] [Mill finish aluminum] [Cladded stainless steel] [Mill finish bronze (brass)] [Gold anodized aluminum].

Pemko Automatic Door Bottoms [Low closing force model] [Non-handed surface model] [Semi-

- Seal: [Soft closed cell sponge neoprene] [PemkoPrene thermo-plastic elastomer] [Nylon brush] [Silicone] [Vinyl]. End Plates: Provide end plates for semi-mortise models.
- Manufacturer Model Number: [Specify manufacturer model number.]. Pemko Residential Automatic Door Bottoms:
- Material: Extruded tempered aluminum 6063-T6. Mounting Type: Surface mount with actuation button.
- Height: 2 1/2 inches (64 mm). Manufacturer Model Number: [Specify manufacturer model number.].
- Seal: Vinyl. Pemko Door Shoes:
- Material: Extruded tempered aluminum 6063-T6.
- Seal: [PemkoPrene thermo-plastic elastomer] [Vinyl]. Width: [1 1/4 inches (32 mm)] [1 5/32 inches (29 mm)] [1 3/8 inches (35 mm)]
- [1 3/4inches (45 mm)]. Fasteners: Stainless steel.
- Finish (ANSI/BHMA 156.18): [Mill finish aluminum] [Brass] [Bright dip clear anodized aluminum] [Bright dip gold anodized aluminum] [Dark bronze anodized aluminum][Gold anodized aluminum] [Painted white aluminum].

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

Fabrication Option: [1/2 inch (12.7 mm) full notch] [1/2 inch (12.7 mm) half notch].

- Pemko Door Bottom Sweeps:
- Material: [Extruded tempered aluminum 6063-T6] [Stainless steel] [Solid oak].
- Seal: [Neoprene] [Vinyl] [Pile] [Nylon brush].
- Finish (ANSI/BHMA 156.18): [Mill finish aluminum] [Mill finish bronze (brass)] [Bright dip gold anodized aluminum] [Clear anodized aluminum] [Dark bronze anodized aluminum] [Gold anodized aluminum] [Painted aluminum: {Specify color.}] [Painted dark bronze aluminum] [Painted gold aluminum] [Painted white aluminum] [Mill finish stainless steel] [Unfinished oak].
- Manufacturer Model Number: [Specify manufacturer model number.].

Pemko Door Bottoms:

- Material: Extruded tempered aluminum 6063-T6. Seal: [Neoprene] [Vinyl].
- Finish: [Specify finish.]. Manufacturer Model Number: [Specify manufacturer model number.].
- Pemko Door Top Weatherstrip/Overhead Rain Drip:
- Material: [Extruded tempered aluminum 6063-T6] [Rigid tan colored vinyl for door top or bottom insert for hollow metal doors].
- Insert Material: [Vinyl] [Pile]. Finish: [Specify finish.].
- Manufacturer Model Number: [Specify manufacturer model number.]. Pemko Garage/Overhead Door Weatherstrip:
- Material: Extruded tempered aluminum 6063-T6. Seal Material: [Neoprene] [Vinyl] [Nylon brush].
- Finish (ANSI/BHMA 156.18): [Mill finish aluminum] [Bright dip gold anodized aluminum] [Dark bronze anodized aluminum] [Painted aluminum: {Specify color.}] [Mill finish bronze (brass)] [Clear anodized aluminum] [Gold anodized aluminum] [Painted white aluminum].
- Manufacturer Model Number: [Specify manufacturer model number.]. Pemko Security Door Bottoms:
- Material: Extruded tempered aluminum 6063-T6. Finish (ANSI/BHMA 156.18): [Mill finish aluminum] [Mill finish bronze (brass)] [Clear anodized aluminum] [Dark bronze anodized aluminum] [Gold anodized aluminum].
- Stop Bar: [Specify requirements.]. Threshold: [Carpet threshold] [Half saddle threshold] [Saddle threshold] [Specify
- requirements.1. Manufacturer Model Number: [Specify manufacturer model number.]

Seal: [Nylon brush] [Extruded tempered aluminum drop bar 6063-T6]. Cam: Impact resistant injection molded Delrin.

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 door bottom manufacturer.

3.02 EXAMINATION

Ordering instructions

Standard

P (Everest 29) L (Less cylinder)

LH (Left Hand)

*Split lever designs and finishes available; please see pricebook for details

Longitude (LON) Manhattan (MNH)

About Allegion

LR (Left Hand Reverse)

CS210 Series interconnected lock

Lock specifications

- A. Site Verification of Conditions: Verify that site conditions are acceptable for installation of door bottoms
 - 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.

SFIC (not available - B60 trim)

G (Everest 29 SFIC)

BDC (Disposable SFIC) H (Construction SFIC) Z (Everest SL 7 pin Cylinder)

B (Less SFIC)

622 Matte black

626 Satin chrome

Boardwalk (BRK)

Neptune (NEP)

VERIFY IN FIELD

VERIFY IN FIELD

VERIFY IN FIELD

Do not proceed with installation of door bottoms until unacceptable conditions are corrected.

Order using standard Schlage order form as follows; images of designs and finishes shown on bottom of page;

Function Cylinder Trim Finish Escutcheon Handing Door thickness Options

CS210-B500 (commercial deadbolt, see picture below)

CS210-B60 (residential deadbolt, see picture below)

609 Satin brass, blackened 625 Bright chrome

Please see pricebook for available options

ACC 626 Plymouth VERIFY IN FIELD

R (Everest 29 FSIC)

T (Construction FSIC)

ACC, AVA, AVI, BRK, BRW, CLT, CHP, ELA, FLA, JAZ, JUP, LAT, LON, MNH, MER, NEP, SAT, STA

J (Less FSIC)

619 Satin nickel

RH (Right Hand)

RR (Right Hand Reverse)

Avila (VLA)

Flair (FLA)

Merano (MER)



CS210 Series

nterconnected lock

SCHLAGE

Overview The CS210 interconnected lock provides exceptional performance, aesthetics, and flexibility for both residential and commercial applications. The CS210 features single motion egress (retracting both the latch and deadbolt simply by rotating the inside lever) to meet Life and Safety code requirements, while exceeding BHMA Grade 2 requirements for operational usage, security, cycle and finish. Eighteen lever designs, two outside deadbolt designs and two inside escutcheon designs - each in a choice of seven finishes - ensure the right aesthetics for whatever type of project. The adjustable escutcheon allows each lock to easily support either 4" or 5 1/2" door preps, eliminating any job-site surprises.



- Aesthetics
- 18 lever styles Two deadbolt designs
- Two escutcheon designs
- Key systems

3 hour UL fire rating

Standard, FSIC, and SFIC



- Seven finishes Suites with F Series and S Series

available

ANSI/BHMA Grade 2 (A156.12)



Inside of door Outside of door

- tubular locks
- Field-configurable for 4" or 5 1/2" door Supports 2 3/6" or 2 3/4" backsets

13/4" - 2" door range standard; 13/4"

Reliable



Features and benefits

- Flexible

Escutcheon designs 8500 trim Camelot escutcheon

\$2 billion company, with products sold in almost 130 countries. For more, visit www.allegion.com.

KRYPTONITE . LCN . SCHLAGE . STEELCRAFT . VON DUPRIN

Elan (ELA)



Saturn (SAT) St. Annes (STA)

Broadway (BRW)

Jupiter (JUP)

Callington (CLT)

Latitude (LAT)

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CEC-CF1R-ALT-05-E

PRESCRIPTIVE RESIDENTIAL ALTERATIONS THAT DO NOT REQUIRE HERS FIELD VERIFICATION CALIFORNIA ENERGY COMMISSION

Project Name

Project Location

(deg or cardinal)

Building Front Orientation

Number of Altered Dwelling Units

Total Conditioned Floor Area (ft²)

Data Entry

A. GENERAL INFORMATION

Field Field Name

02 Date Prepared

CA City

Zip Code

Climate Zone

Building Type

Slab Area (ft²)

Project Scope

CEC-CF1R-ALT-05-E

Replacement of Doors and Windows (Daisy Apartments)

5/17/23

10540 Daisy Dr

North , East , West, South

Ventura

93004

Mixed

23,144 SF

Residential wood frame VB

12,248 SF

Replace Doors and Windows for Energy Efficiency

PRESCRIPTIVE RESIDENTIAL ALTERATIONS THAT DO NOT REQUIRE HERS FIELD VERIFICATION (22) CALIFORNIA ENERGY COMMISSION

Data Entry 1

na

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

Frame Depth (inches)

05 Frame Spacing (inches)

Cavity R-value

Proposed

U-Factor

Proposed

Proposed

150.1-A

11 Comments

Joint Appendix

JA4 Reference

Joint Appendix

JA4 Reference

U-Factor from Table

06b Continuous Insulation R-

Field Field Name

02 Assembly Type

03 Frame Type

01 Tag/ID

CEC-CF1R-ALT-05-E

January 2022

CEC-CF1R-ALT-05-E

Data Entry 3

CERTIFICATE OF COMPLIANCE

This compliance document is only applicable to simple alterations that do not require HERS verification for compliance. When HERS verification is

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 Rvalue 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

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	NA NA

PRESCRIPTIVE RESIDENTIAL ALTERATIONS THAT DO NOT REQUIRE HERS FIELD VERIFICATION

Roof area covered by building integrated photovoltaic (PV) panels and solar thermal panels are exempt from the above Cool Roof requirements.

PRESCRIPTIVE RESIDENTIAL ALTERATIONS THAT DO NOT REQUIRE HERS FIELD VERIFICATION

Data Entry 2

CA Building Energy Efficiency Standards - 2022 Residential Compliance

Liquid field applied coatings must comply with installation criteria from Section 110.8(i)4.

na

Existing + Proposed Fenestration Area ≤ Maximum Allowed Fenestration Area

Proposed Fenestration U-factor ≤ Required Fenestration U-factor

Proposed Fenestration U-factor ≤ Required Fenestration U-factor

Proposed Fenestration SHGC ≤ Required Fenestration SHGC

Proposed Fenestration SHGC ≤ Required Fenestration SHGC

Existing + Proposed West-Facing Fenestration Area ≤ Maximum Allowed West-Facing Fenestration Area

Data Entry 1

January 2022

January 2022

CEC-CF1R-ALT-05-E

Data Entry

Yes
 No

Yes ○ No

Yes No

Yes ○ No

January 2022

CA Building Energy Efficiency Standards - 2022 Residential Compliance

January 2022

CEC-CF1R-ALT-05-E

January 2022

CEC-CF1R-ALT-05-E

PRESCRIPTIVE RESIDENTIAL ALTERATIONS THAT DO NOT REQUIRE HERS FIELD VERIFICATION

Data Entry 2

CALIFORNIA ENERGY COMMISSION

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

CA Building Energy Efficiency Standards - 2022 Residential Compliance

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	8		
10	Proposed U-factor Source	na			
11	Proposed SHGC	na	8		
12	Proposed SHGC Source	na			
13	Exterior Shading Device	na			
14	Combined SHGC from CF1R-ENV-03	na			

CA Building Energy Efficiency Standards - 2022 Residential Compliance

Net Added West-facing Fenestration Area

Net Added Fenestration Area (all orientations)

Proposed Fenestration U-factor (Windows)

Required Fenestration U-factor (Windows)

Proposed Fenestration SHGC (Windows)

Required Fenestration SHGC (Windows)

25 Proposed Fenestration U-factor (Skylights)

26 Required Fenestration U-factor (Skylights)

29 Required Fenestration SHGC (Skylights)

Proposed Fenestration SHGC (Skylights)

Is Net Added Fenestration Area ≤ 0 for all orientations?

Is Net Added Fenestration Area ≤ for west-facing fenestration?

Is the proposed Fenestration U-factor ≤ the Required Fenestration U-factor?

Is the Proposed Fenestration SHGC ≤ the Required Fenestration SHGC?

Is the proposed Fenestration U-factor ≤ the Required Fenestration U-factor?

30 Is the Proposed Fenestration SHGC ≤ the Required Fenestration SHGC?

(28) CALIFORNIA ENERGY COMMISSION

Table F-2

Field Field Name

January 2022

PRESCRIPTIVE RESIDENTIAL ALTERATIONS THAT DO NOT REQUIRE HERS FIELD VERIFICATION

CEC-CF1R-ALT-05-E

Yes ○ No

Yes ○ No

Yes
 No

Yes ○ No

Data Entry

ROFIT DOO APARTMENTS I WINDOW RETR 10540 DAISY E VENTURA, CA 93

422 EAST MAIN STREET, VENTURA, CA 93001

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CONSULTANT

AGENCY

DAIS			
NO.	REVISION		DATE
1	PLAN CHECK		05/26/2
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RAWN BY	CHECKED BY
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PROJECT NUMBER

2371-02

required, a CF1R-ALT-01 shall first be registered with a HERS Provider Data Registry.

removed before verification by the building inspector.

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

CALIFORNIA ENERGY COMMISSION

Method of Compliance

CRRC Product ID Number

R-value Deck Insulation

Initial Solar Reflectance

Aged Solar Reflectance

Thermal Emittance

Minimum Required

Thermal Emittance Minimum Required

Aged Solar Reflectance Minimum Required

CALIFORNIA ENERGY COMMISSION

15 Total Proposed Fenestration Area

Compliance Statement:

Compliance Statement:

Compliance Statement:

Compliance Statement:

Compliance Statement:

16 Maximum Allowed Fenestration Area

18 Total Proposed West-Facing Fenestration Area

Proposed Fenestration U-factor (Windows)

22 Required Fenestration U-factor (Windows)

24 Proposed Fenestration SHGC (Windows)

Required Fenestration SHGC (Windows)

27 Proposed Fenestration U-factor (Skylights) 28 Required Fenestration U-factor (Skylights)

Proposed Fenestration SHGC (Skylights)

Required Fenestration SHGC (Skylights)

CA Building Energy Efficiency Standards - 2022 Residential Compliance

Maximum Allowed West-Facing Fenestration Area

Table E-2

Field Field Name

CA Building Energy Efficiency Standards - 2022 Residential Compliance

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

Field Field Name

Roof Pitch

Exception

Product Type

Proposed

Proposed

SRI (Optional)

SRI (Optional)

Data Entry 3

CEC-CF1R-ALT-05-E

PRESCRIPTIVE RESIDENTIAL ALTERATIONS THAT DO NOT REQUIRE HERS FIELD VERIFICATION

CALIFORNIA ENERGY COMMISSION

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

CA Building Energy Efficiency Standards - 2022 Residential Compliance

PRESCRIPTIVE RESIDENTIAL ALTERATIONS THAT DO NOT REQUIRE HERS FIELD VERIFICATION CALIFORNIA ENERGY COMMISSION

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.

Field	Field Name	Data Entry 1	Data Entry 2	Data Entry 3	
01	Tag/ID	na			
02	Fenestration Type	na	8.		
03	Frame Type	na			
04	Dynamic Glazing	na	8	3 pt	
05	Orientation N, S, W, E	yes			
06	Area Removed (ft²)	0 SF			
07	Area Added (ft²)	0 SF	8		
08	Net Added Area (ft²)	0 SF			
09	Proposed U-factor	.47	8	18	
10	Proposed U-factor Source	Manuf.		9	
11	Proposed SHGC	.31	8		
12	Proposed SHGC Source	Manuf.			
13	Exterior Shading Device	na			
14	Combined SHGC from CF1R-ENV-03	na			

CA Building Energy Efficiency Standards - 2022 Residential Compliance

January 2022

CA Building Energy Efficiency Standards - 2022 Residential Compliance

January 2022

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		13			
SC System Identification or Name	SC System Location or Area Served	Exemption from HERS Verification			
na	na	Oa	Ob	Oc	Od
na	na	Oa	Ob	Oc	Od
na	na	Oa	Оь	Oc	Od
na	na	Oa	Оь	Oc	Οd
na	na	Oa	Оь	Oc	Od
na	na	Oa	Оь	Oc	Od
na	na	Oa	Оь	Oc	Od
na	na	Oa	Оь	Oc	Od
na	na	Oa	Оь	Oc	Od
na	na	Oa	Оь	Oc	Od
na	na	Oa	Ob	Oc	Od
na	na	Oa	Оь	Oc	Od
na	na	Oa	Оь	Oc	Od

PRESCRIPTIVE RESIDENTIAL ALTERATIONS THAT DO NOT REQUIRE HERS FIELD VERIFICATION CEC-CF1R-ALT-05-E CALIFORNIA ENERGY COMMISSION

Documentation Author's Declaration Statement

Documentation Author Name: Andrew Garl	Documentation Author Signature:		
Company:	Signature Date:		
RRM Design Group	5/17/23		
Address:	CEA/ HERS Certification Identification (if applicable):		
422 E Main St	N/A		
City/State/Zip:	Phone:		
Ventura Ca, 93001	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. 2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the
- building design or system design identified on this Certificate of Compliance (responsible designer). The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
- 4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval
- with this building permit application. 5. I 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.

Lunderstand that a registered copy of this Certificate of Compliance is required to be included with the

documentation the builder provides to the Responsible Designer Name: Andrew Garl	e building owner at occupancy. Responsible Designer Signature:
Company:	Date Signed:
RRM Design Group	5/17/23
Address:	License:
22 E Main St	C37643
City/State/Zip:	Phone:
93001	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

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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
- 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

Data Entry

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

Field Field Name

	Treatment of the state of the s			Data Life y				
01	Is natural gas connected to the existing water heater?			○Yes ○No				
able H-2								
Field	Field Name	Data Entry 1	Data Entry 2	Data En	try 3			
02	Water Heating System ID or Name	na	n	a	na			
03	Water Heating System Type	na	n	a	na			
04	System Option (from §150.2(b)1Hiii)	na	n	a	na			
05	Water Heater Type	na	n.	a	na			
06	Volume	na	n	a	na			
07	Fuel Type	па	n	a	na			
08	# of Water Heaters in System	na	n	a	na			

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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.
- 3. 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.
- 6. Number of Altered Dwelling Units: 1 for single-family
- 7. Zip Code: 5-digit zip code for the project location (used to determine climate zone).
- 8. Fuel Type: Natural Gas, Liquefied Propane Gas, or Electricity.

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CERTIFICATE OF COMPLIANCE – USER INSTRUCTIONS CF1R-ALT-05-E Prescriptive Residential Alterations That Do Not Require HERS Field Verification (Page 3 of 13)

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.

- 1. 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. 2. 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:

- (a) Mass roof 25 pounds per square foot (lbs/ft²) or greater (uncommon situation such as sod roof);
- (b) Roof has ceiling assemblies with a U-factor less than or equal to 0.025 or R-38 insulation;
- (c) Roof has a radiant barrier not installed directly above spaced sheathing meeting 150.1(c)2; (d) Nin Climate Zones 2. 4. 9. 10, 12 and 14, no ducts are installed in the attic; or
- (e) 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: (a) Mass roof 25 pounds per square foot (lbs/ft²) or greater (uncommon situation such as sod roof);
 - (b) No ducts are installed in the attic; or
- (c) 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 Prescriptive Residential Alterations That Do Not Require HERS Field Verification (Page 2 of 13)

- Climate Zone: From Reference Appendices, Joint Appendix, JA2.1.1.
- 10. 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.
- 11. Building Type: Single Family (includes duplex), or Multi-Family (a building that shares common walls and common floors or ceilings).
- 12. Slab Area: Area of the first floor slab (if any) in square feet (ft2). 13. 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)

- 1. Tag/ID: A label (if any) from the plans, such as A1.4 or wall. 2. 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.
- 6. 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.
- 8. 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). 9. Joint Appendix JA4 Reference Cell: Cell number used to determine the R-value or U-factor (e.g., an R-38ceiling with 24-inch on center
- 10. Required U-factor: From the requirements in Sections 110.8 and 150.0.
- 11. Comments: Any notes regarding location, unique conditions, or attachments.

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CERTIFICATE OF COMPLIANCE – USER INSTRUCTIONS CF1R-ALT-05-E Prescriptive Residential Alterations That Do Not Require HERS Field Verification (Page 4 of 13)

- NOTE: If one of the exceptions above has been selected then the rest of Section C. is not required.
- 4. 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. 5. Product type: See Cool Roof Rating Council's directory. Generally product types include single-ply roof, wood shingles, asphalt roof, metal
- 6. R-value Deck Insulation: If one of the exceptions selected includes adding roof deck insulation, indicate the R-value of the insulation.
- 7. 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.
- 8. 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 ρ_{aged} =[0.2+ $\beta[\rho_{initial}$ -0.2], where $\rho_{initial}$ = the initial solar reflectance and soiling resistance β is listed by product type

VALUES OF SOILING DESISTANCE & BY DRODUCT TYPE

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

- 9. 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. 10. 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
- 11. Minimum Required Aged Solar Reflectance: Based on climate zone and roof slope.
- 12. Minimum Required Thermal Emittance: Based on climate zone and roof slope.
- 13. 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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> ROFIT DOO DOW 0540 DA

NO. REVISION DATE PLAN CHECK 05/26/23 PROJECT MANAGER

AIS

DRAWN BY CHECKED BY **PROJECT NUMBER** 2371-02

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) x 0.20 = total square footage (ft2) of fenestration allowed (20 percent). Depending on the climate zone, if westfacing 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.

- 1. 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
- 2. 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. 3. 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". 5. 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.
- 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.
- 6. 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.
- 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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- 15. 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.
- 16. Maximum Allowed Fenestration Area: Enter the maximum allowed fenestration area for all orientations, from DO2.
- 17. 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.
- 18. 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
- Maximum Allowed West-Facing Fenestration Area: Enter the maximum allowed west-facing fenestration area only, from D03.
- 20. Is the Total Proposed 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.
- 21. 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). 23. 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 Ufactor 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).
- 26. 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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CF1R-ALT-05-E CERTIFICATE OF COMPLIANCE - USER INSTRUCTIONS Prescriptive Residential Alterations That Do Not Require HERS Field Verification (Page 11 of 13)

> (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).

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 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.

- 15. 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.
- 16. 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. 17. Net Added Fenestration Area (all orientations): This field is to show the net area of added fenestration for all orientations.
- 18. 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.
- 20. Required Fenestration U-factor (Windows): From Section D., report the value of column 05a.
- 21. 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.
- 22. 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. 23. Required Fenestration SHGC (Windows): From Section D., report the value of column 06a.
- 24. 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. 25. 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.
- 26. Required Fenestration U-factor (Skylights): From Section D., report the value of column 05b.
- 27. 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-factors 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)1B (replacing skylights), enter 0.30.

Comments: Note any special location or comment here.

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

- Tag/ID: A label (if any) from the plans, such as W1. 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 ft²) 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.
- Orientation (North, East, South, West): The definitions in the Energy Standards include these specific details -
 - 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 (ft²): Indicate the area in square feet (ft²) of each exterior fenestration type, excluding west-facing fenestration.
- 8. Proposed West Facing Fenestration Area (ft2): In climate zones 2, 4, 6-15, indicate the area in square feet (ft2) of each exterior west-facing
- 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 from 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 Ufactor is less than or equal to the Required Fenestration U-factor. If No, the project fails prescriptive compliance - specified fenestration Ufactor 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.
- 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)

- 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 ft2) 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. Orientation (North, East, South, West): The definitions in the Energy Standards include these specific details
- 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. CA Building Energy Efficiency Standards - 2022 Residential Compliance January 2022

CERTIFICATE OF COMPLIANCE – USER INSTRUCTIONS CF1R-ALT-05-E Prescriptive Residential Alterations That Do Not Require HERS Field Verification (Page 12 of 13)

- 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

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.

- Space Conditioning (SC) System Identification or Name: Name of the space conditioning (SC) system or any other identifying name.
- Space Conditioning (SC) System Location or Area Served: Zone, or area, served by the space conditioning (SC) system.
- Exemption from HERS Verification: Section 150.2(b)1E
 - Space Conditioning (SC) System was not altered. 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.

CA Building Energy Efficiency Standards - 2022 Residential Compliance January 2022 CERTIFICATE OF COMPLIANCE - USER INSTRUCTIONS Prescriptive Residential Alterations That Do Not Require HERS Field Verification

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.

- 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.
- 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. 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. For the exceptions – up to 3 square feet (ft2) of tubular skylights and up to 3ft2 of glazing in a door, enter N/A; up to 16ft2 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.
- 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.
- 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.

- (1) An exterior shading device is not used for products with an NFRC rated U-factor and SHGC; based on a factory integrated
- (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).
- 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.

To determine compliance with allowable fenestrations areas and efficiencies, complete rows 15-32.

CA Building Energy Efficiency Standards - 2022 Residential Compliance

CERTIFICATE OF COMPLIANCE – USER INSTRUCTIONS CF1R-ALT-05-E Prescriptive Residential Alterations That Do Not Require HERS Field Verification (Page 10 of 13)

- Area Removed (ft²): Enter the area, in square feet (ft²), of the fenestration/glazing being removed.
- Area Added (ft²): Enter the area, in square feet (ft²), of the fenestration/glazing being added.

factor calculated on form CF1R-ENV-02-E, Area-Weighted Average Calculation Worksheet.

 Net Added Area (ft²): The difference between the Area Added and the Area Removed. 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-

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.

- 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.
- 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. 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.

For the exceptions – up to 3 square feet (ft2) of tubular skylights and up to 3ft2 of glazing in a door, enter N/A; up to 16ft2 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.

- 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. 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.

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. CA Building Energy Efficiency Standards - 2022 Residential Compliance January 2022

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

H. Water Heating Systems Water heating compliance for an alteration is described in Section 150.2(b)1H.

- 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

CA Building Energy Efficiency Standards - 2022 Residential Compliance

- Is natural gas connected to the existing water heater? Yes or No.
- Water Heating System Identification or Name: Name of the Water Heating System or any other identifying name. System Option (from §150.2(b)1Hiii): 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
- 5. Water Heater Type: Consumer Instantaneous, Consumer Storage, Heat pump water heater, NEEA Tier 3 heat pump water heater
- 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 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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CF1R-ALT-05-E

(Page 7 of 13)

January 2022

January 2022



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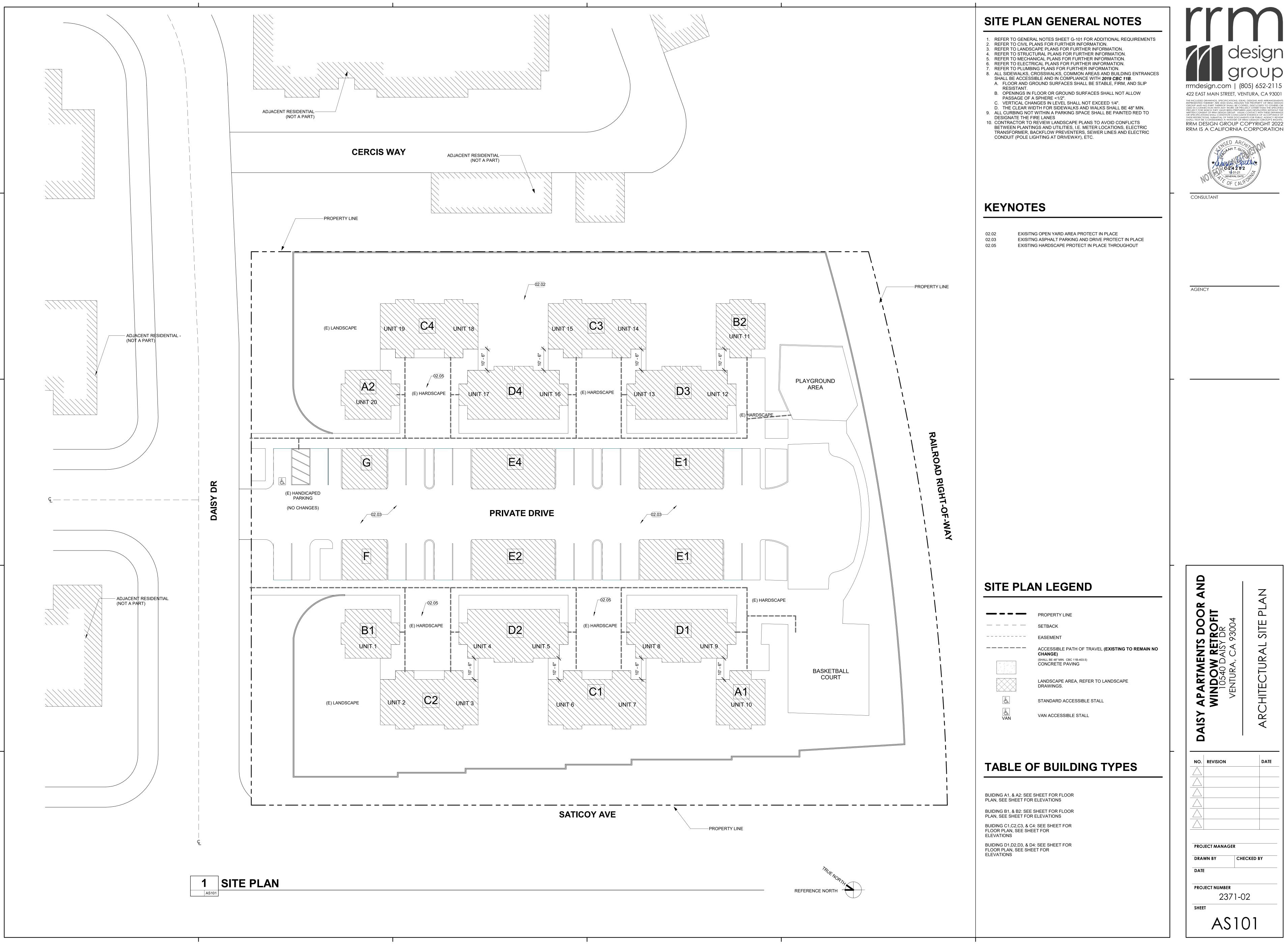
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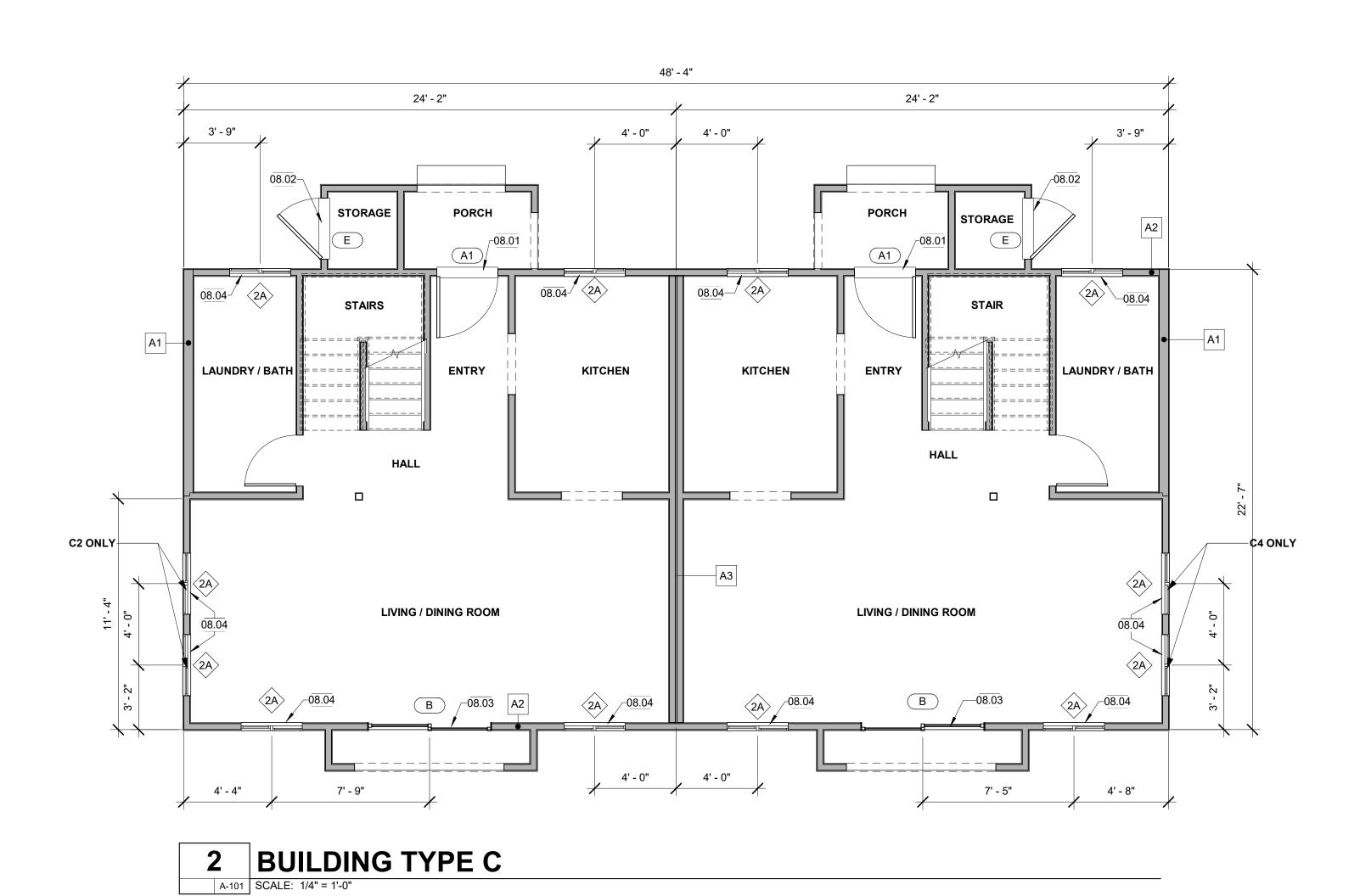
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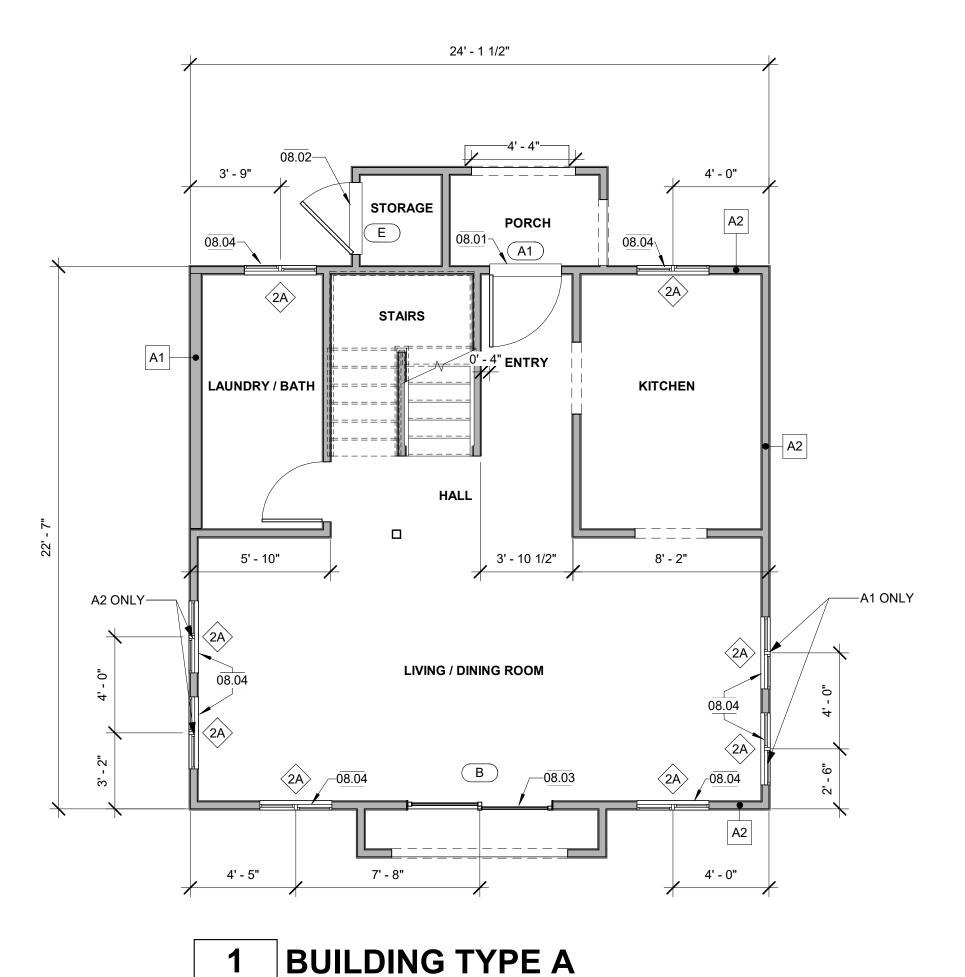
PROJECT NUMBER 2371-02



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22' - 7"

KITCHEN

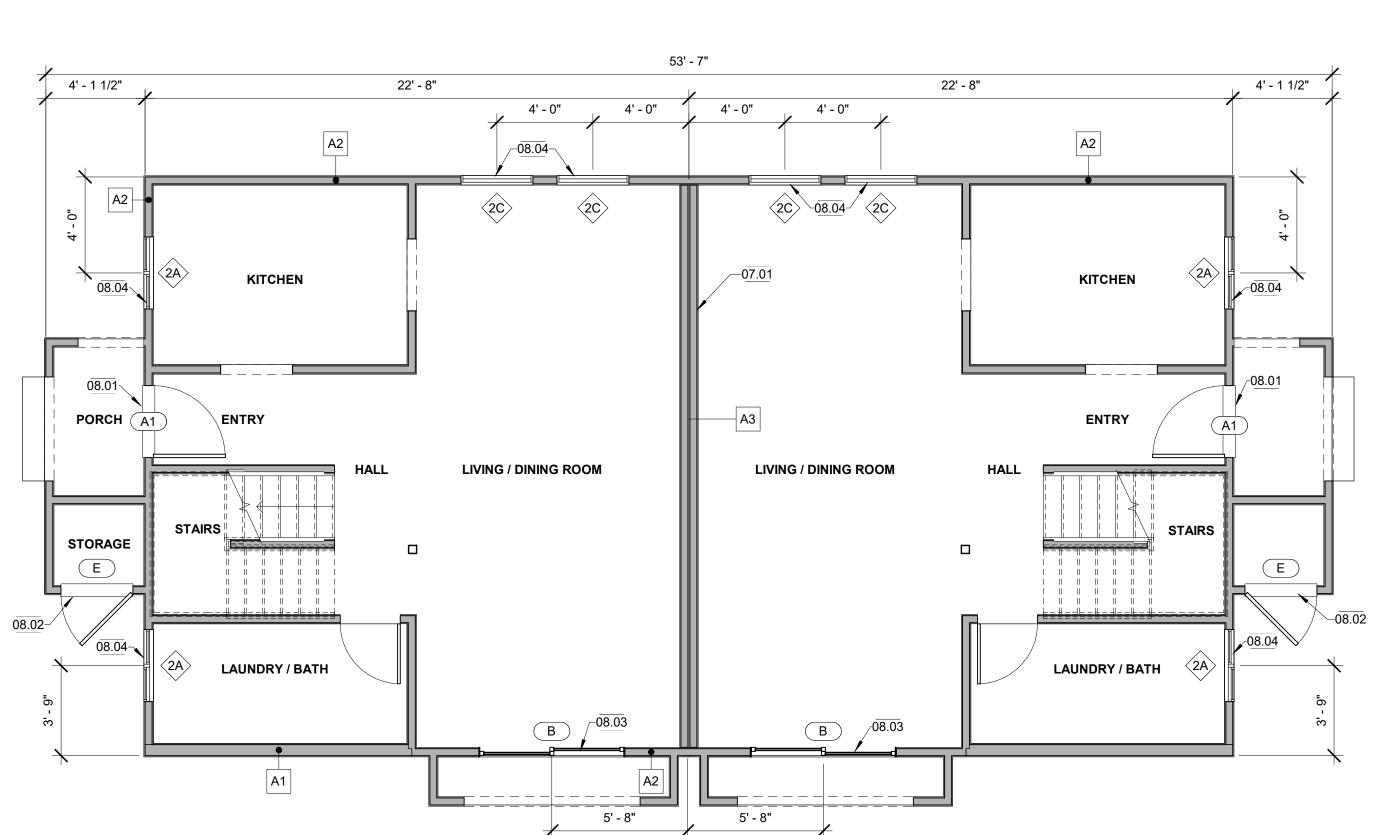
LAUNDRY / BATH

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

2' - 6" 4' - 0"

2A 08.04 2A

LIVING / DINING ROOM



4 BUILDING TYPE D

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



FLOOR PLAN GENERAL NOTES

- REFER TO GENERAL NOTES SHEET G-101 FOR ADDITIONAL REQUIREMENTS.
 EXISTING WALL TYPES AND ASSEMBLIES AND FINISHES TO REMAIN, REPAIR
- 3. DIMENSIONS SHOWN TO EXISTING CONDITIONS AND SHALL NOT GOVERN PLACEMENT OF IMPROVEMENTS. CONTRACTOR TO VERIFY IN FIELD PLACEMENT OF ALL DOORS AND WINDOWS AND TO MATCH EXISTING
- 4. MAINTAIN EXISTING BLOCKING IN WALLS FOR CABINETS AND OTHER WALL MOUNTED ACCESSORIES INCLUDING BUT NOT LIMITED TO HANDRAILS, SHELVING AND BATHROOM FIXTURES.
- 5. MAINTAIN EXISTING FIREBLOCKING FOR WALL CAVITIES THAT EXCEED 2022 CBC HEIGHT LIMITATIONS
 6. DOOR AND WINDOW DIMENSIONS ARE CENTERED AT OPENINGS
- 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
- AT ALL PENETRATIONS AND INTERSECTIONS OF FIRE-RATED PARTITIONS, PROVIDE FIRE SEALANT AND/OR FIRE STOPPING TO MAINTAIN CONTINUITY OF PARTITION RATING
- 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

10. TRIM AND CARPENTRY REPAIR TO BE PROVIDED AS NEEDED THROUGHOUT

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

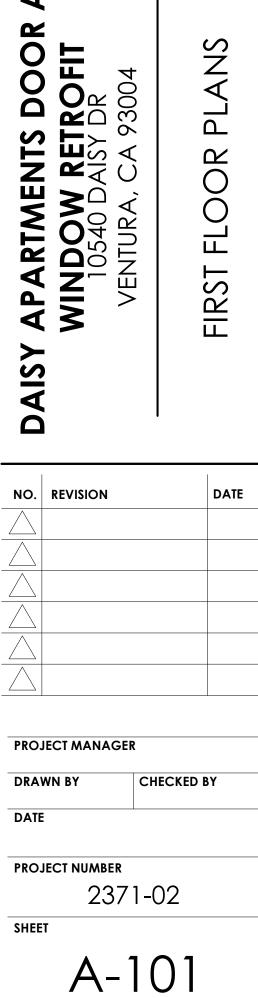
08.04 EXISTING WINDOW TO BE REMOVED AND REPLACED WITH NEW, SEE WINDOW SCHEDULE

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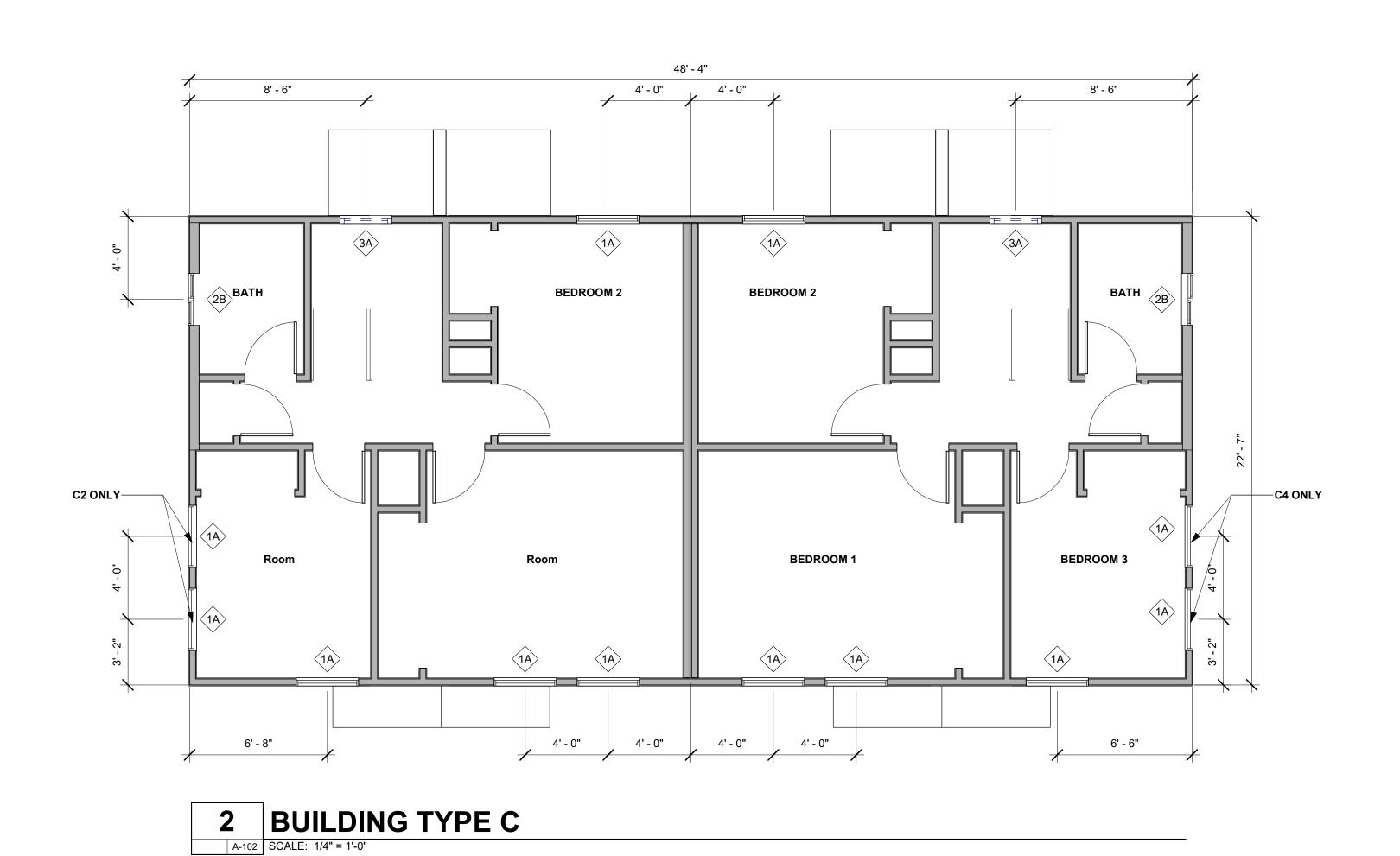
WALL LEGEND

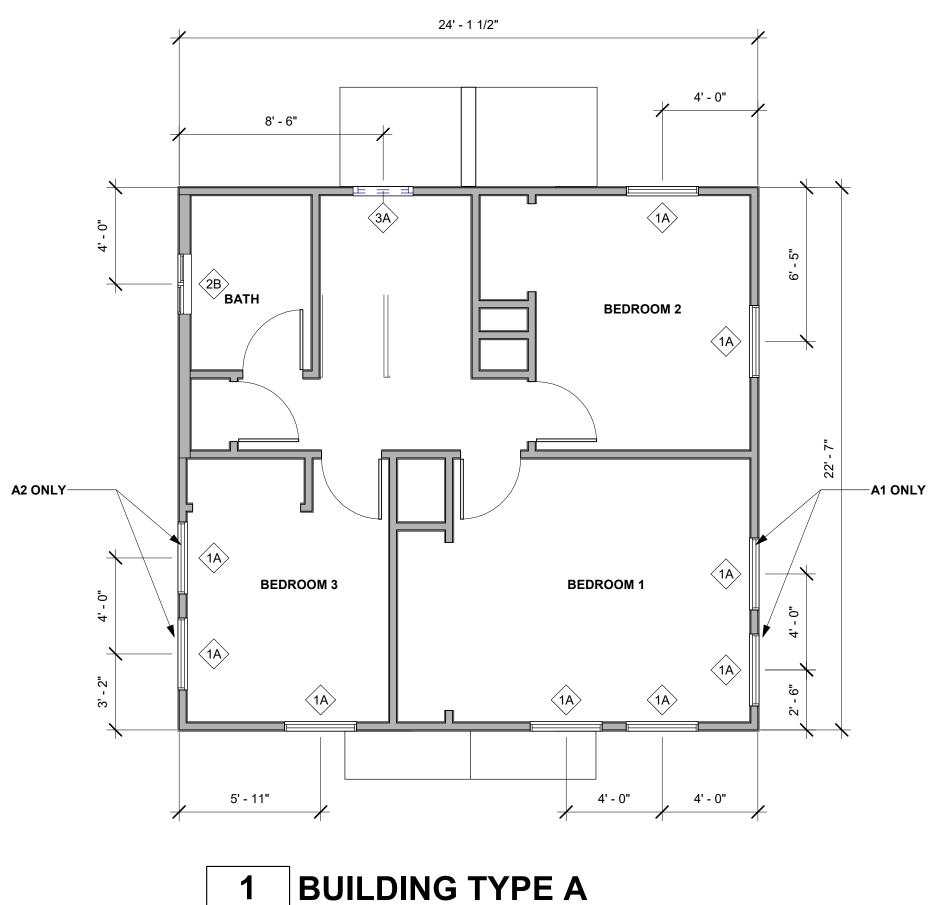
- EXISTING 6" EXTERIOR WALLS: 2X6 WOOD STUDS AT 16" O.C. WITH 1 LAYER 5/8" TYPE "X" GYPSUM BOARD AT INTERIOR SIDE AND 7/8" EXTERIOR PLASTER OVER PAPER-BACKED METAL LATH AT EXTERIOR SIDE. (PROVIDE PLYWOOD SHEATHING, WITH 1/8" AIR SPACE BETWEEN EACH PLYYWOOD PANEL, WHERE SHOWN ON STRUCTURAL DRAWINGS. PROVIDE 2 LAYERS OF GRADE D PAPER WHERE PLASTERING OVER PLYWOOD). PROVIDE R-19 FIBERGLASS BATT INSULATION.
- 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.
- 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.

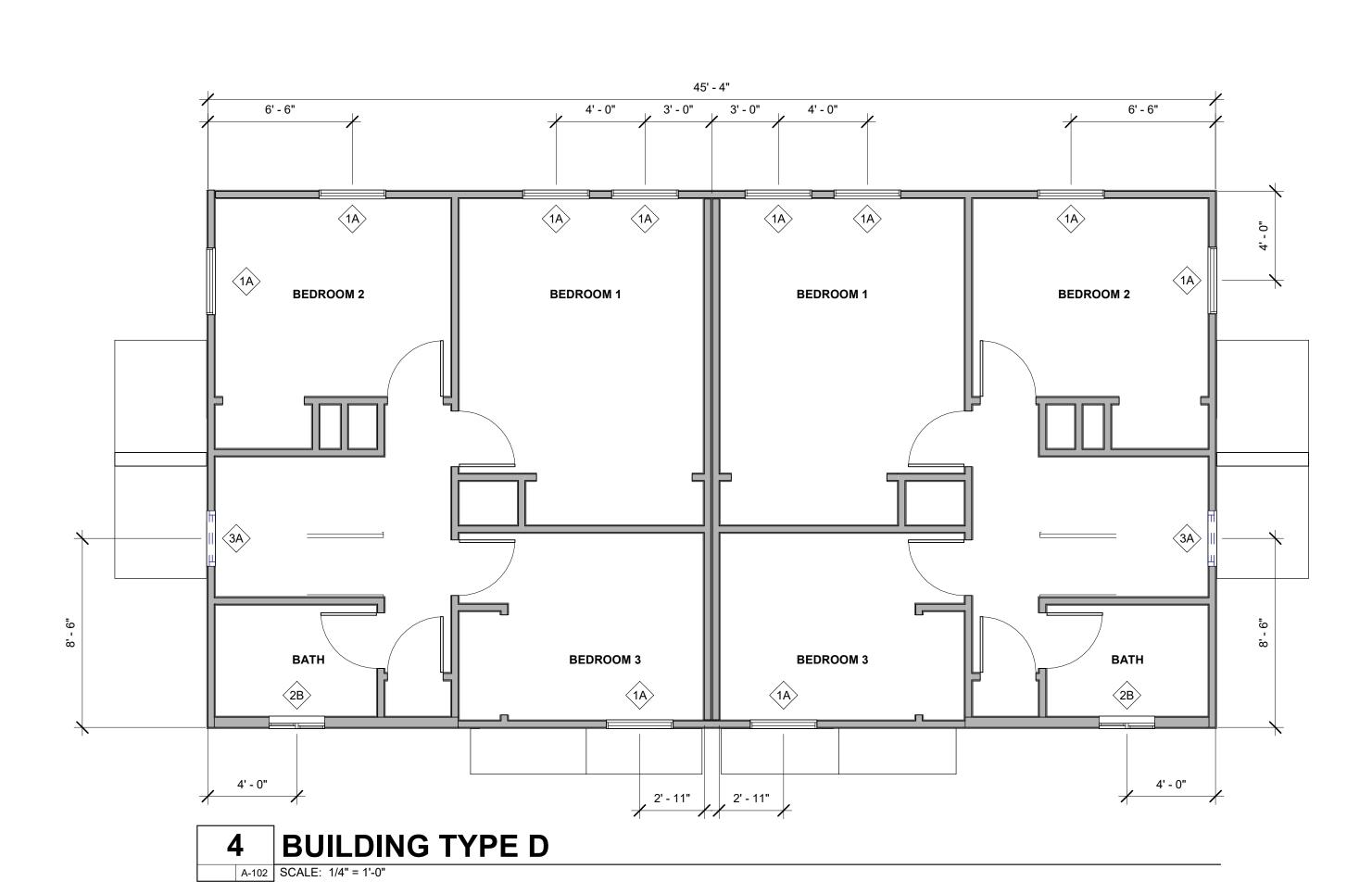


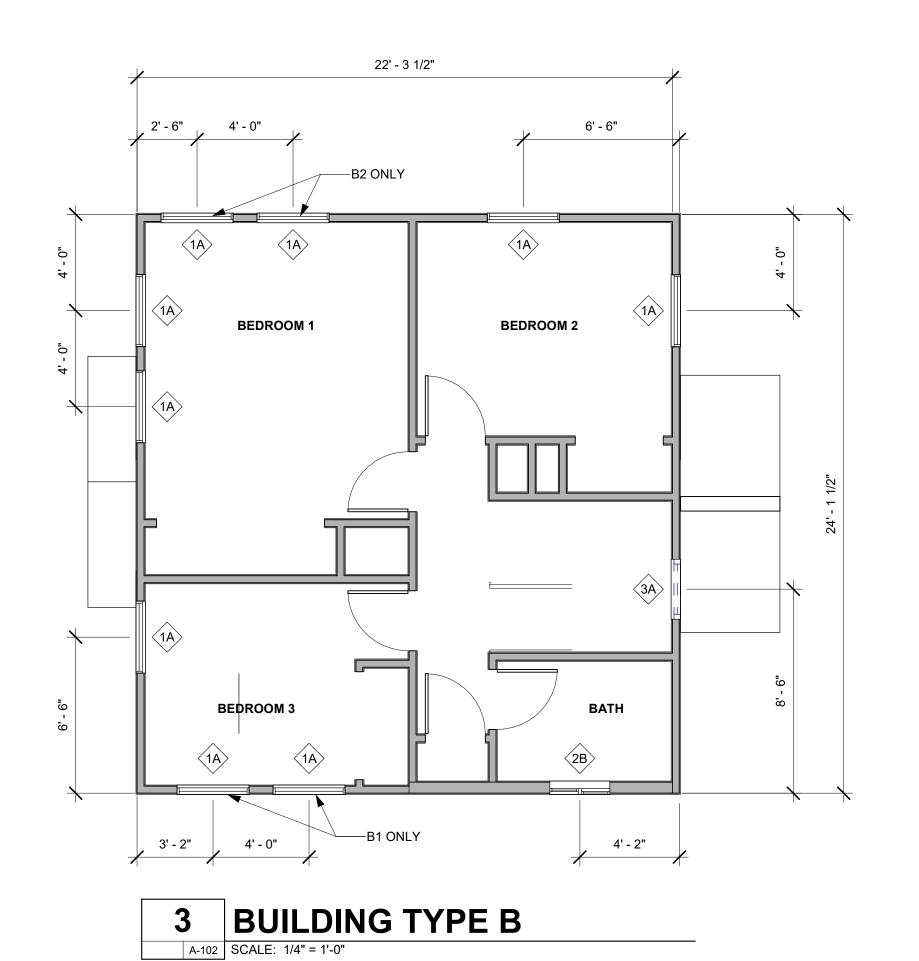
REFERENCE NORTH

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









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
- 3. DIMENSIONS SHOWN TO EXISTING CONDITIONS AND SHALL NOT GOVERN PLACEMENT OF IMPROVEMENTS. CONTRACTOR TO VERIFY IN FIELD PLACEMENT OF ALL DOORS AND WINDOWS AND TO MATCH EXISTING
- 4. MAINTAIN EXISTING BLOCKING IN WALLS FOR CABINETS AND OTHER WALL MOUNTED ACCESSORIES INCLUDING BUT NOT LIMITED TO HANDRAILS, SHELVING AND BATHROOM FIXTURES.
- 5. MAINTAIN EXISTING FIREBLOCKING FOR WALL CAVITIES THAT EXCEED 2022 CBC HEIGHT LIMITATIONS
- 6. DOOR AND WINDOW DIMENSIONS ARE CENTERED AT OPENINGS 7. SEE CODE ANALYSIS FOR LOCATIONS OF FIRE PARTITIONS AND FIRE
- 8. WHERE RECESSED FIXTURES OCCUR IN WALLS OR HORIZONTAL ASSEMBLIES, THE FIRE RATING OF THOSE ASSEMBLIES SHALL BE
- 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



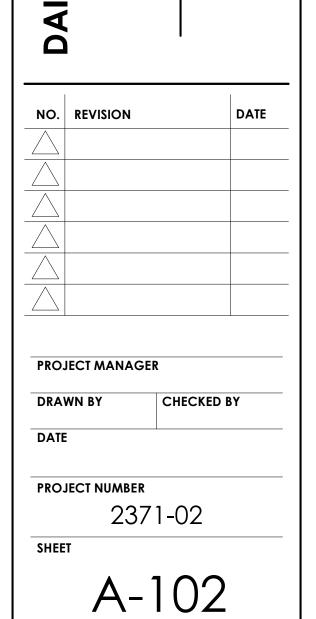
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WALL LEGEND

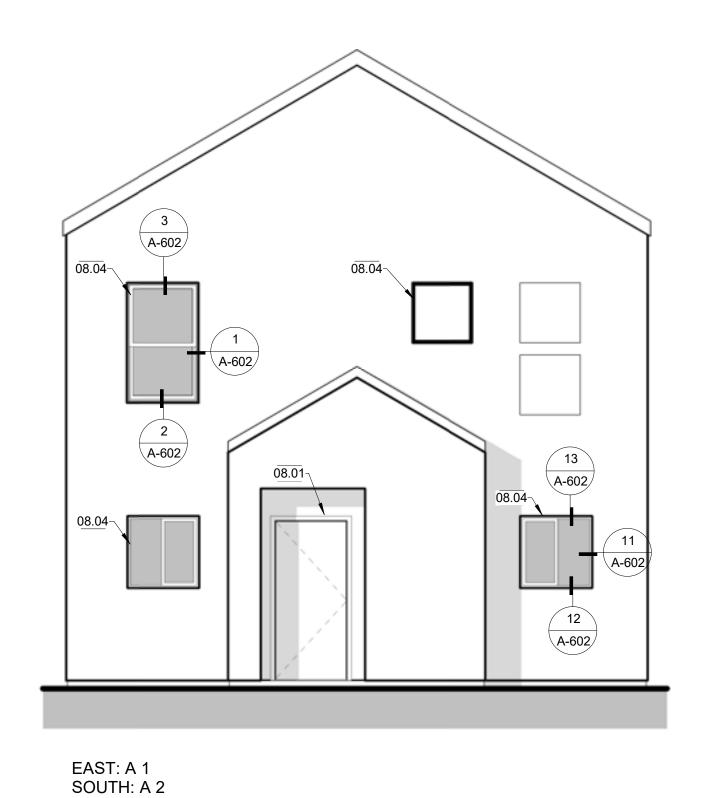
- EXISTING 6" EXTERIOR WALLS: 2X6 WOOD STUDS AT 16" O.C. WITH 1 LAYER 5/8" TYPE "X" GYPSUM BOARD AT INTERIOR SIDE AND 7/8" EXTERIOR PLASTER OVER PAPER-BACKED METAL LATH AT EXTERIOR SIDE. (PROVIDE PLYWOOD SHEATHING, WITH 1/8" AIR SPACE BETWEEN EACH PLYYWOOD PANEL, WHERE SHOWN ON STRUCTURAL DRAWINGS. PROVIDE 2 - LAYERS OF GRADE D PAPER WHERE PLASTERING OVER PLYWOOD). PROVIDE R-19 FIBERGLASS BATT INSULATION.
- 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 COMMON ON THE SHOWN ON T 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.
- 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.



WINDOW RETROFIT
10540 DAISY DR
VENTURA, CA 93004

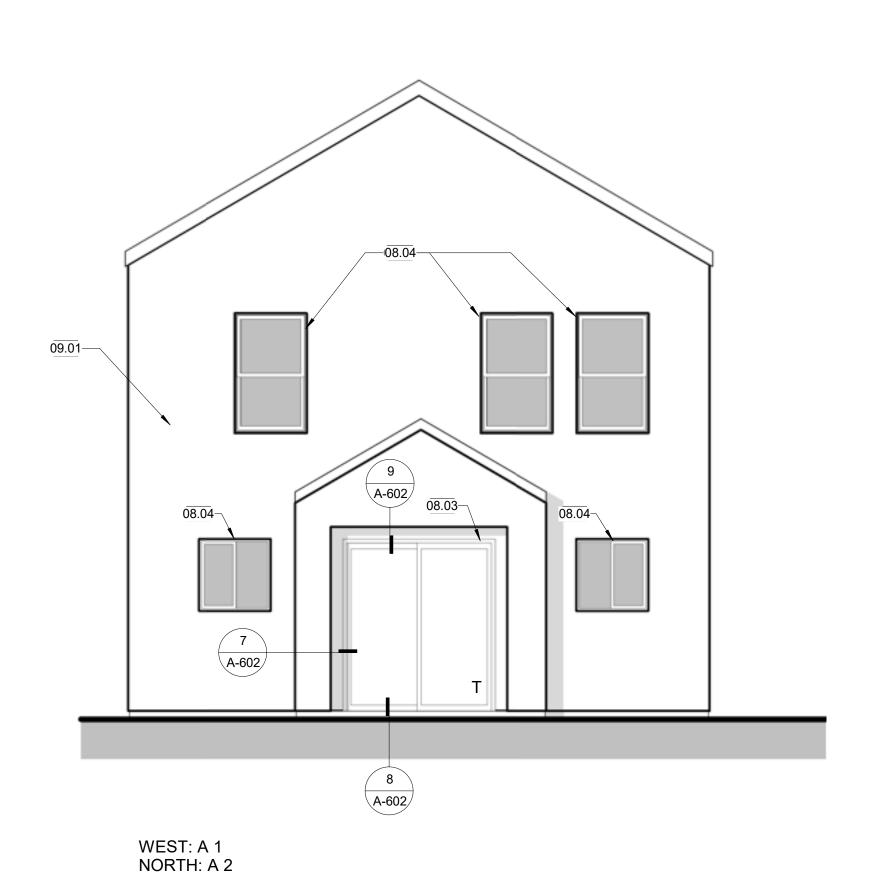
REFERENCE NORTH

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



1 TYPE A - EAST TYPICAL OF 2 UNITS

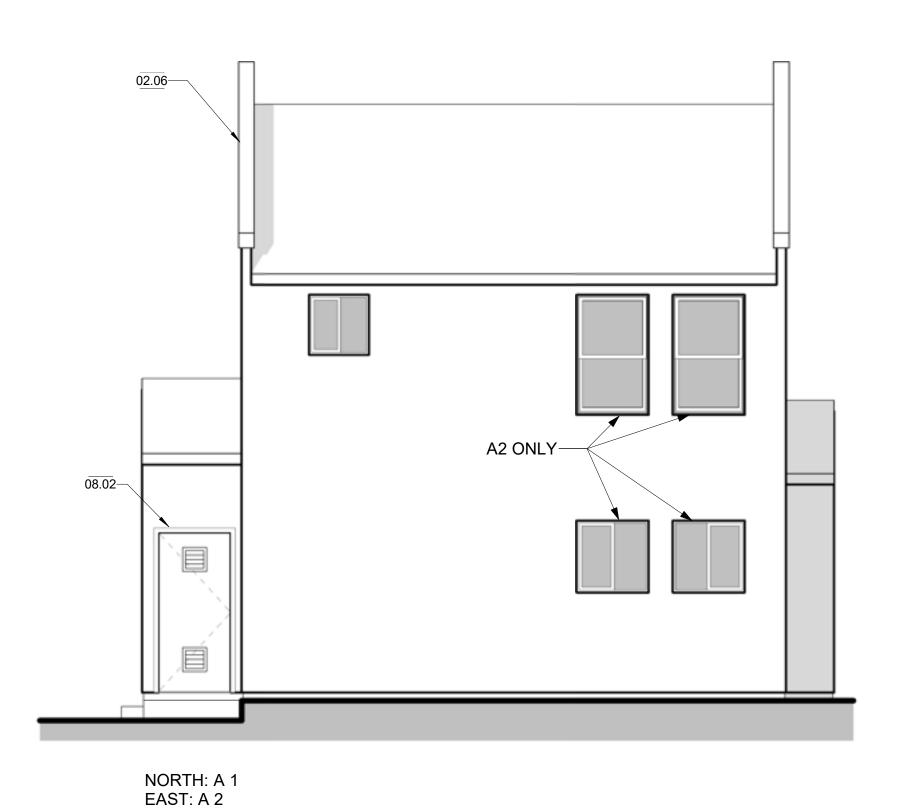
| A-201 | SCALE: 1/4" = 1'-0"



3 TYPE A - WEST

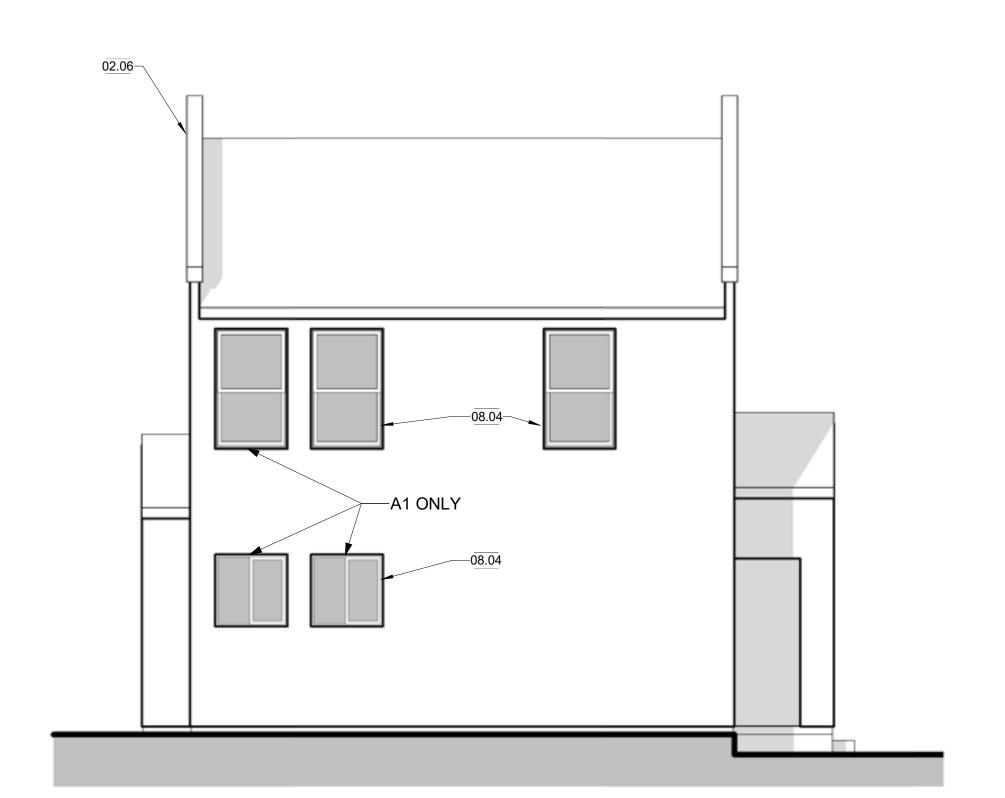
A-201 SCALE: 1/4" = 1'-0"

TYPICAL OF 2 UNITS



2 TYPE A - NORTH TYPICAL OF 2 UNITS

| A-201 | SCALE: 1/4" = 1'-0"



SOUTH: A 1 WEST: A 2

4 TYPE A - SOUTH

| A-201 | SCALE: 1/4" = 1'-0"

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

ELEVATION GENERAL NOTES

- REFER TO GENERAL NOTES SHEET G-101 FOR ADDITIONAL REQUIREMENTS.
 FRAMING ELEVATIONS, INCLUDING FLOOR PLATES AND FLOOR LEVEL ELEVATIONS ARE MEASURED FROM BUILDING FINISH FLOOR, U.N.O.
- SEE DETAILS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
 EXISTING ROOF PITCH AND OVERHANGS AND FASCIA TO REMAIN, PROTECT IN PLACE.
- 1. EXISTING ROOF FITCH AND OVERHANGS AND PASCIA TO REMAIN, FROTECTION 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 VERIEN COLOR SCHEME WITH OWNER REFORE
- 7. CONTRACTOR TO VERIFY COLOR SCHEME WITH OWNER BEFORE PERFORMING THE WORK.

 8. TRIM AND CARPENTRY REPAIR TO BE PROVIDED AS NEEDED THROUGH
- PERFORMING THE WORK.

 8. TRIM AND CARPENTRY REPAIR TO BE PROVIDED AS NEEDED THROUGHOUT THE PROJECT NEEDED TO MAINTAIN OR RESTOR A FINISHED APPEARANCE.
- REPAIR STUCCO TO MATCH EXISTING.
 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
 PROVIDE PRIMED AND PAINTED DOORS PER OWNERS COLOR SPECIFICATION

KEYNOTES

EXISTING PARAPET TO REMAIN IN PLACE
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

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422 EAST MAIN STREET, VENTURA, CA 93001

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

TYPE A - EXTERIOR ELEVATIONS

PROJECT MANAGER

DRAWN BY CHECKED BY

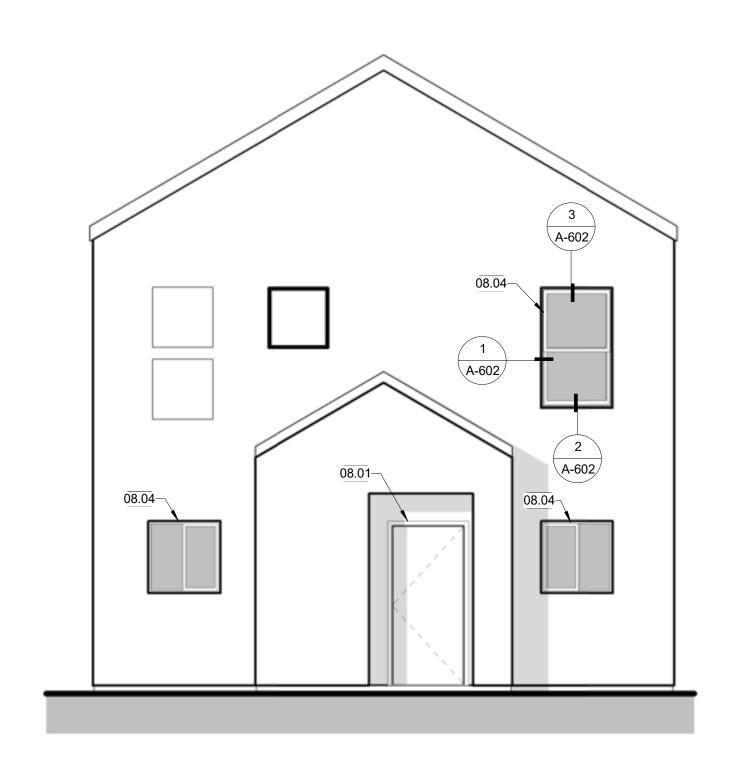
DATE

PROJECT NUMBER

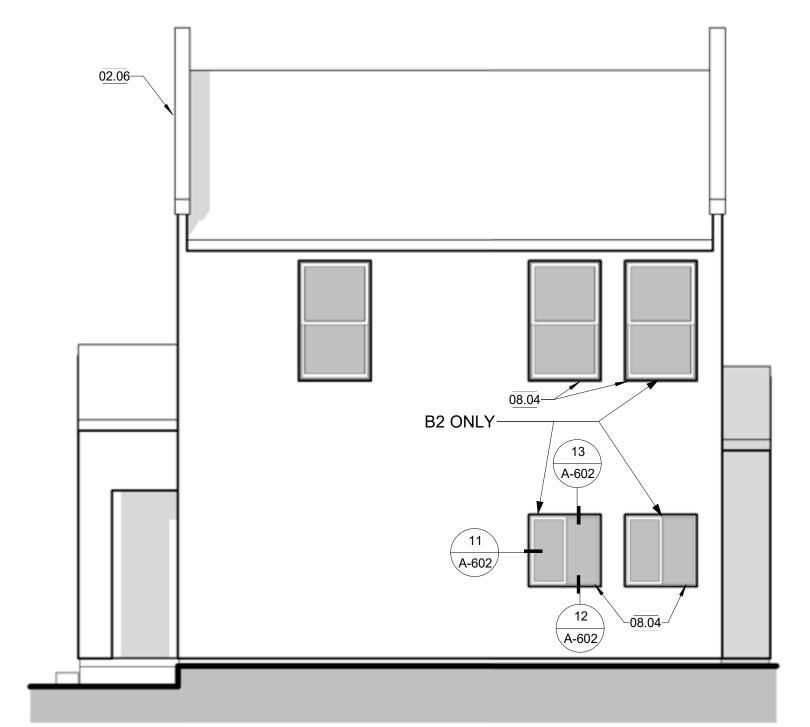
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SHEET

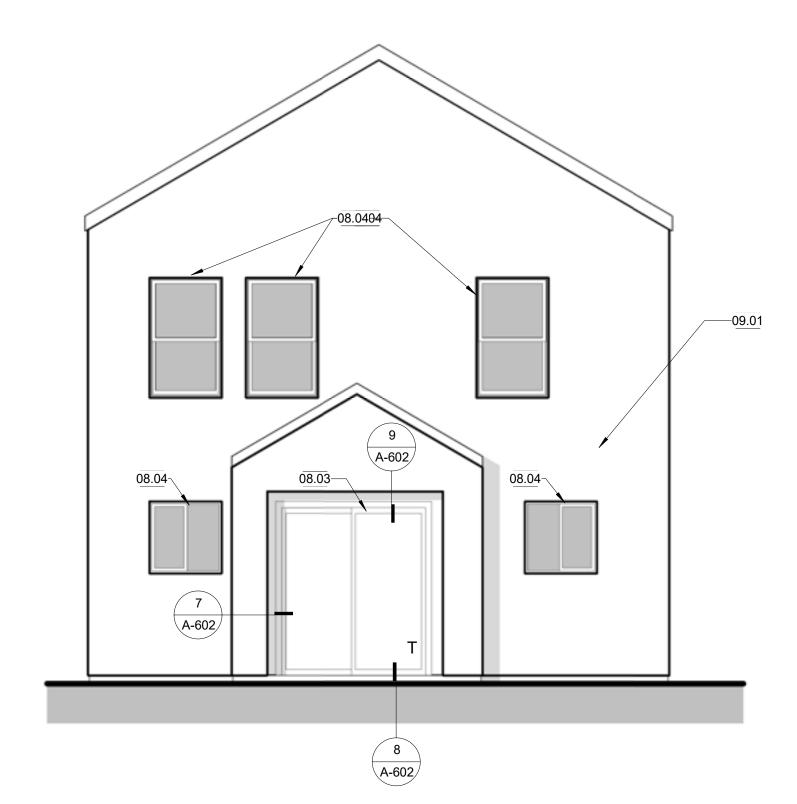
A-201



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

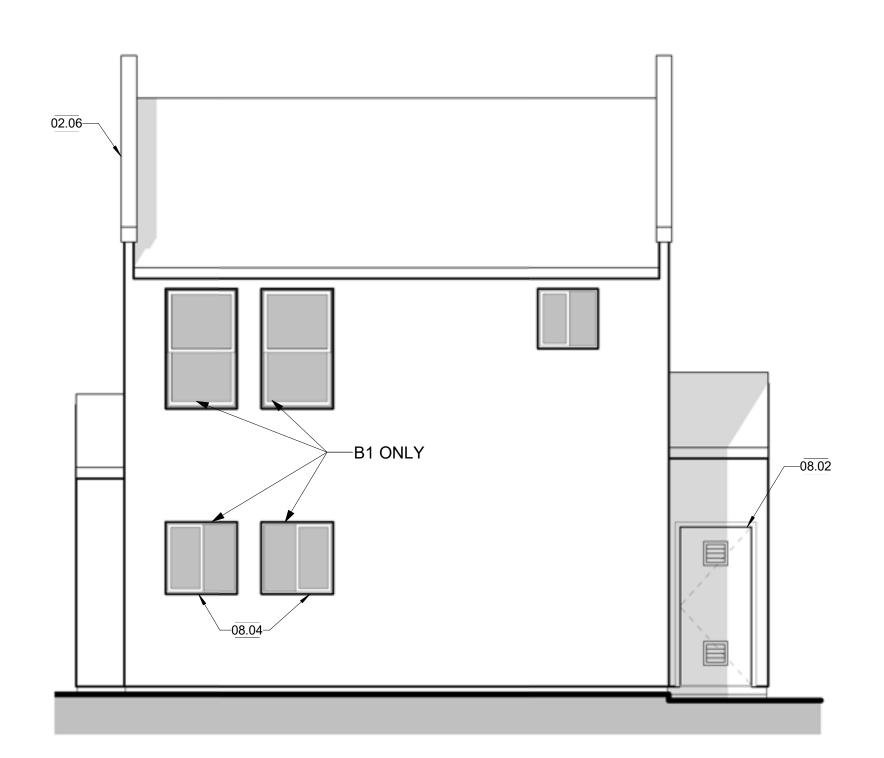


2 EAST - TYPE B A-202 SCALE: 1/4" = 1'-0"



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
- 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



422 EAST MAIN STREET, VENTURA, CA 93001

KEYNOTES

EXISTING PARAPET TO REMAIN IN PLACE EXISTING ENTRY DOOR TO BE REMOVED AND REPLACED WITH 08.01 NEW, REMOVE AND REPLACE EXISTING THRESHOLD WITH ADA COMPLIANT ENTRY DOOR THRESHOLD PER SPECIFICATIONS, REPLACE DOOR WEATHER STRIPPING, AND BOTTOM SEAL PER MANUFACTURER RECOMMENDATIONS

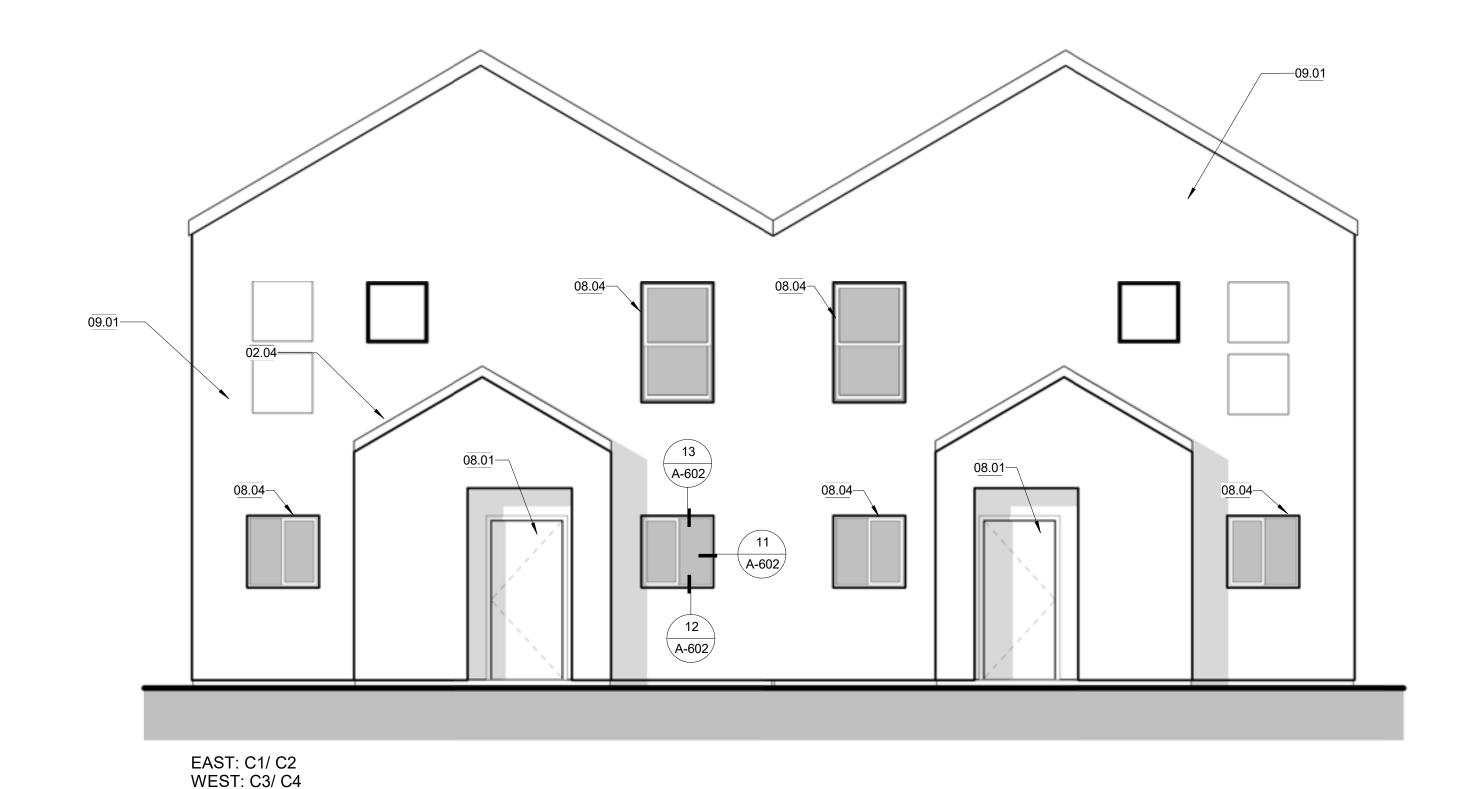
08.02 EXISTING EXTERIOR DOOR TO BE REMOVED AND REPLACED WITH NEW, SEE DOOR SCHEDULE 08.03 EXISTING SLIDER DOOR TO BE REMOVED AND REPLACED WITH

EXISTING STUCCO FINISH REPAIR TO MATCH EXISTING

NEW, SEE DOOR SCHEDULE EXISTING WINDOW TO BE REMOVED AND REPLACED WITH NEW, 08.04 SEE WINDOW SCHEDULE

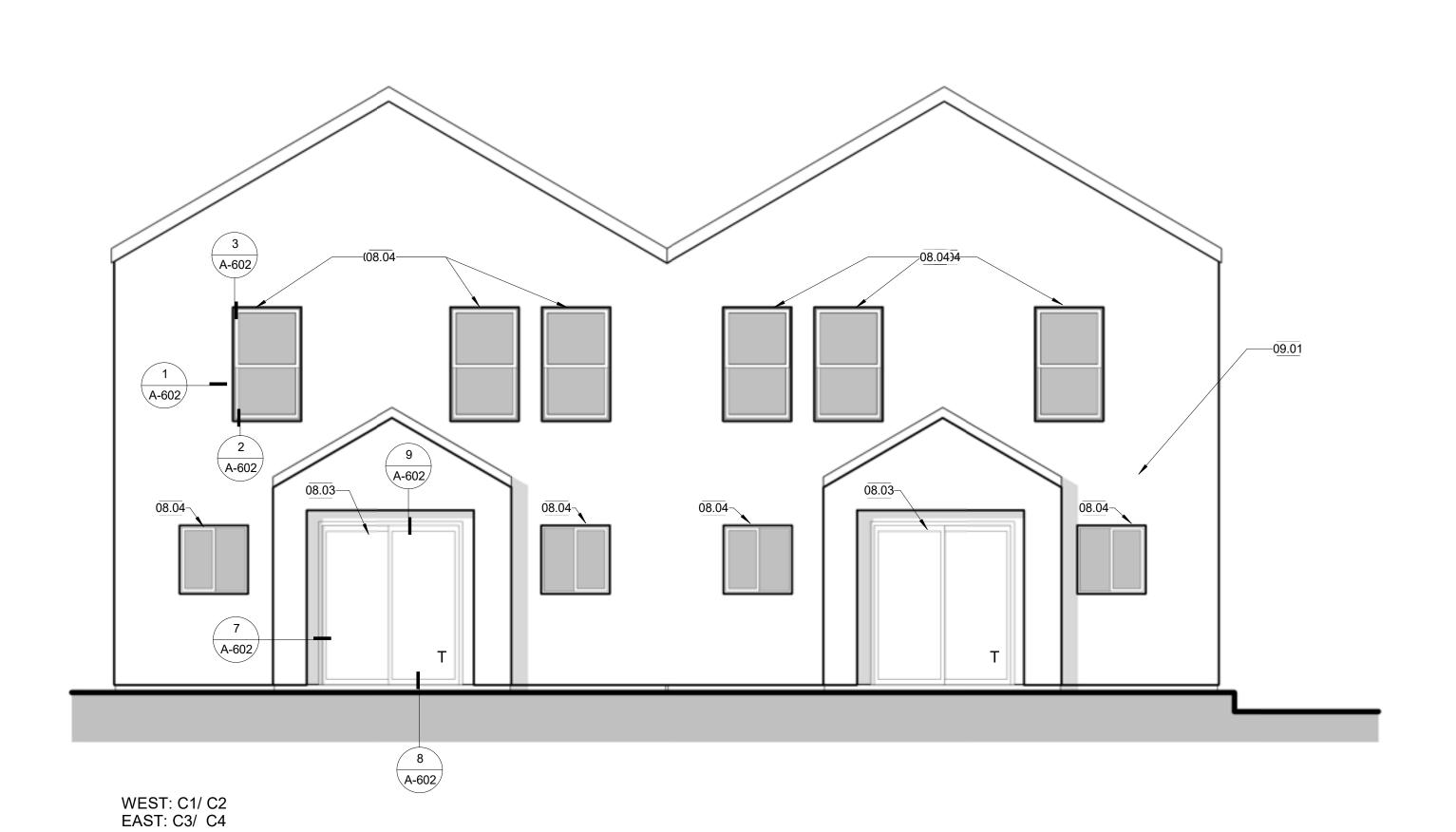
AGENCY

PROJECT MANAGER CHECKED BY PROJECT NUMBER 2371-02 A-202



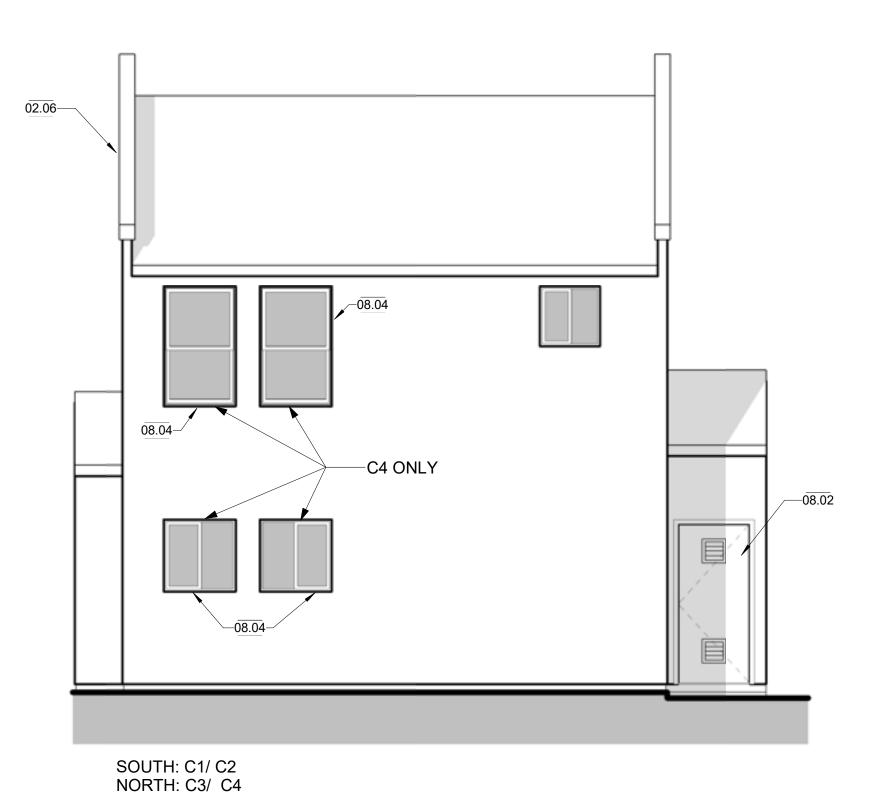
1 TYPE C - EAST

A-203 SCALE: 1/4" = 1'-0"



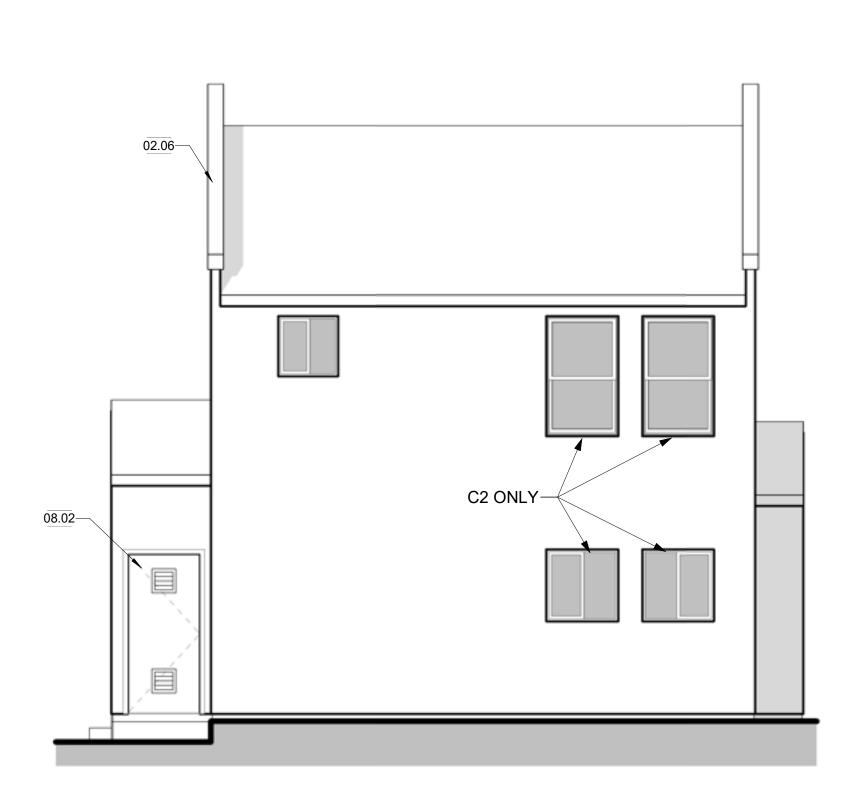
4 TYPE C - WEST

A-203 SCALE: 1/4" = 1'-0"



2 TYPE C - SOUTH

A-203 SCALE: 1/4" = 1'-0"



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

ELEVATION GENERAL NOTES

- REFER TO GENERAL NOTES SHEET G-101 FOR ADDITIONAL REQUIREMENTS.
 FRAMING ELEVATIONS, INCLUDING FLOOR PLATES AND FLOOR LEVEL ELEVATIONS ARE MEASURED FROM BUILDING FINISH FLOOR, U.N.O.
- SEE DETAILS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
 EXISTING ROOF PITCH AND OVERHANGS AND FASCIA TO REMAIN, PROTECT IN PLACE.
- SEE ROOF PLAN FOR APPROXIMATE DOWNSPOUT LOCATIONS, U.N.O.
 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.
- REPAIR STUCCO TO MATCH EXISTING.
 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
 PROVIDE PRIMED AND PAINTED DOORS PER OWNERS COLOR SPECIFICATION



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422 EAST MAIN STREET, VENTURA, CA 93001

KEYNOTES

02.04 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 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

08.04 EXISTING WINDOW TO BE REMOVED AND REPLACED WITH NEW, SEE WINDOW SCHEDULE

09.01 EXISTING STUCCO FINISH REPAIR TO MATCH EXISTING

NEW, SEE DOOR SCHEDULE

AGENCY

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

TYPE C - EXTERIOR ELEVATIONS

PROJECT MANAGER

DRAWN BY CHECKED BY

DATE

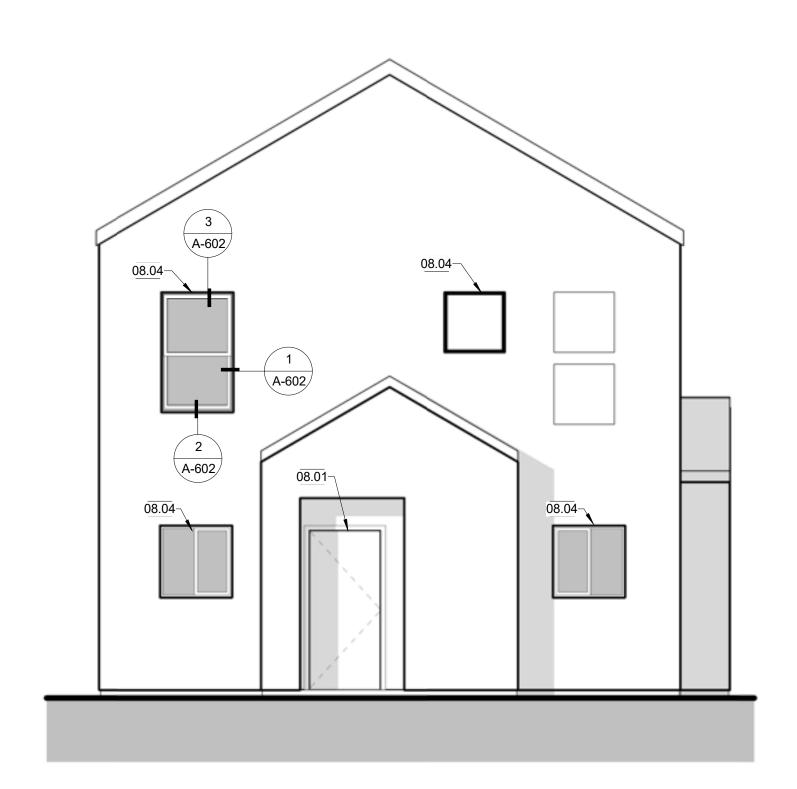
PROJECT NUMBER

2371-02

SHEET

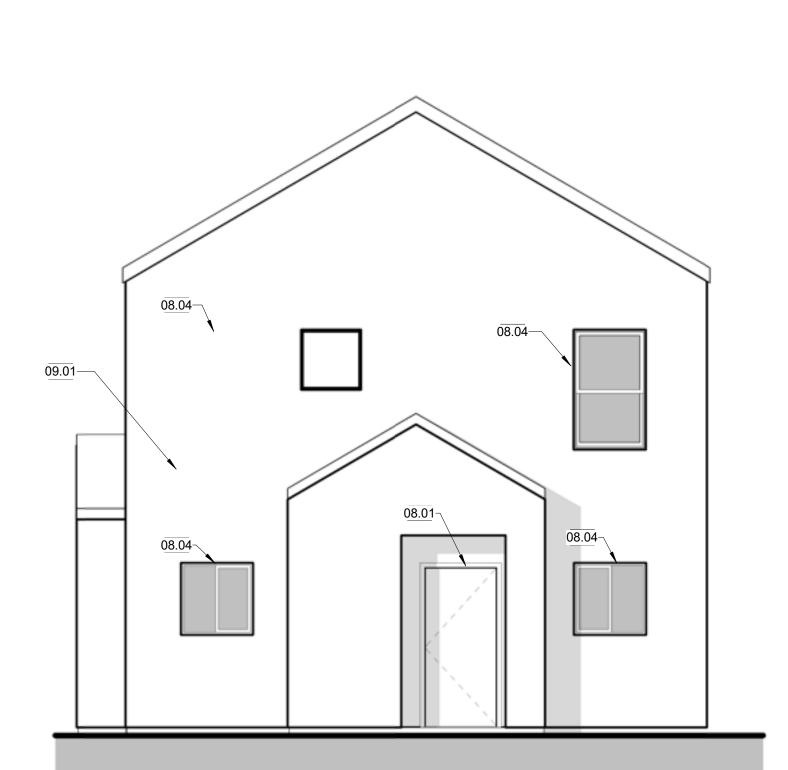
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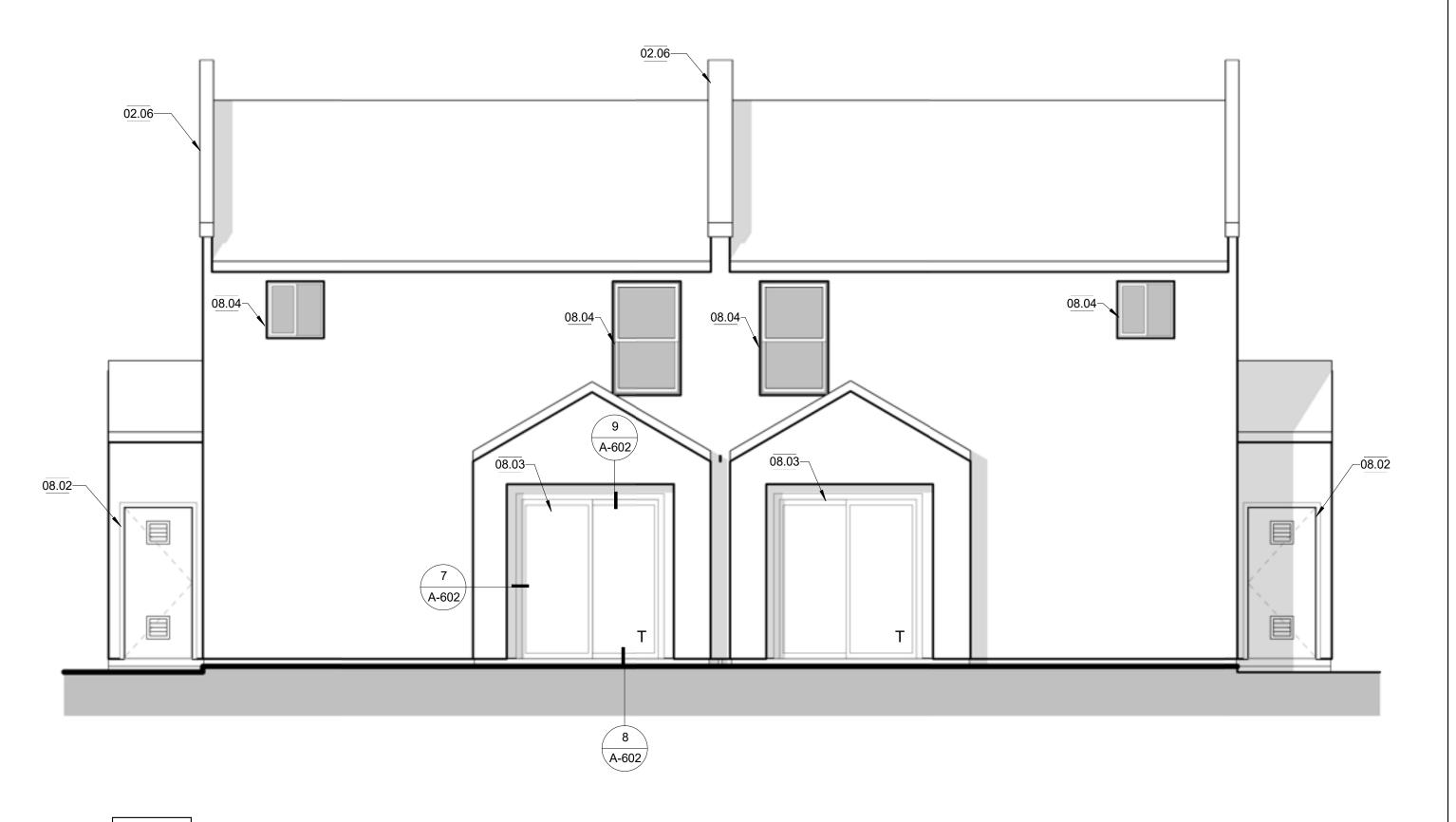
1 SOUTH - TYPE D

A-204 SCALE: 1/4" = 1'-0"



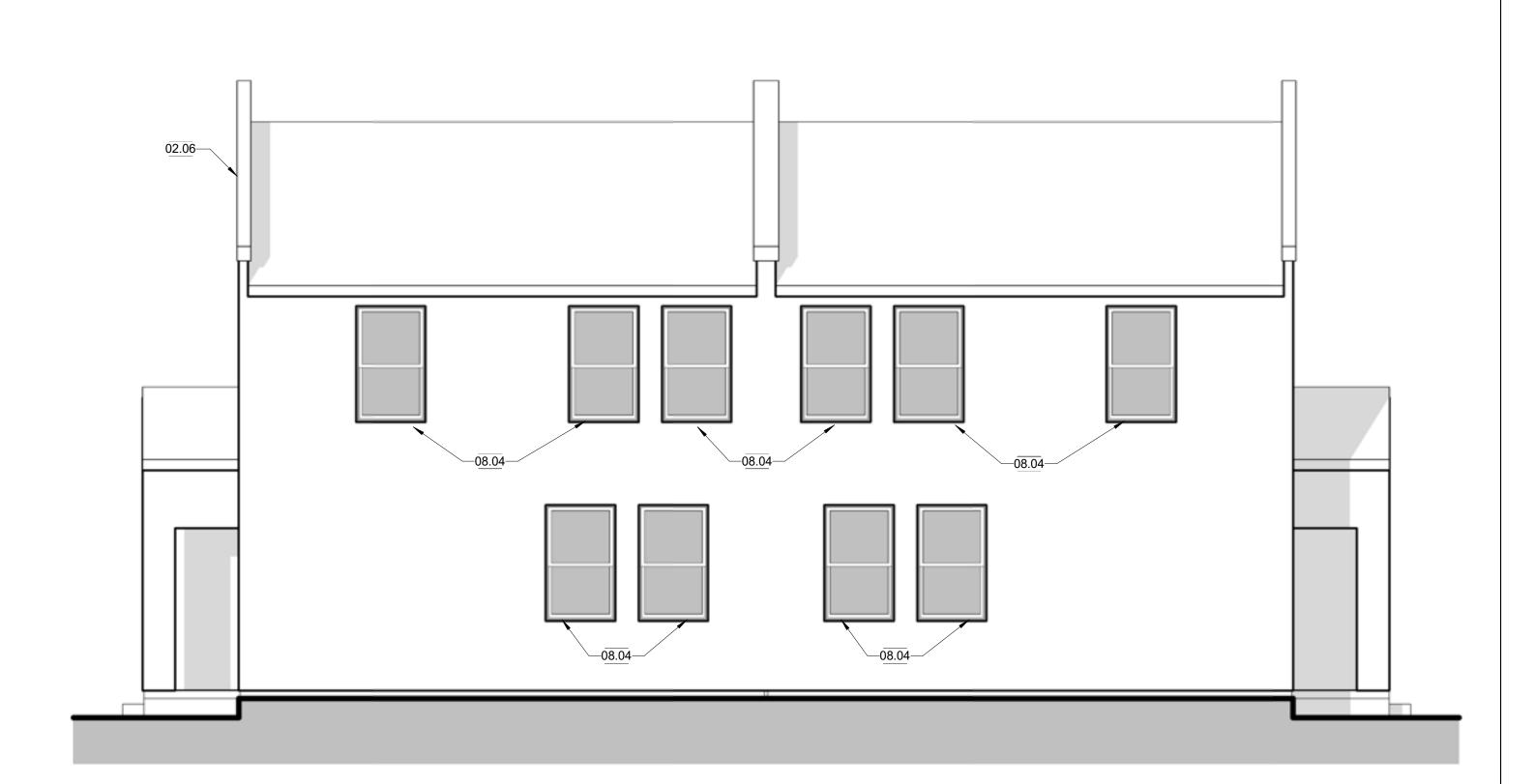
3 NORTH - TYPE D

A-204 SCALE: 1/4" = 1'-0"



2 WEST - TYPE D

A-204 SCALE: 1/4" = 1'-0"



4 EAST - TYPE D

A-204 SCALE: 1/4" = 1'-0"

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

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- 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
- 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.
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KEYNOTES

EXISTING PARAPET TO REMAIN IN PLACE EXISTING ENTRY DOOR TO BE REMOVED AND REPLACED WITH 08.01 NEW, REMOVE AND REPLACE EXISTING THRESHOLD WITH ADA COMPLIANT ENTRY DOOR THRESHOLD PER SPECIFICATIONS, REPLACE DOOR WEATHER STRIPPING, AND BOTTOM SEAL PER MANUFACTURER RECOMMENDATIONS

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EXISTING STUCCO FINISH REPAIR TO MATCH EXISTING

NEW, SEE DOOR SCHEDULE 08.04 EXISTING WINDOW TO BE REMOVED AND REPLACED WITH NEW, SEE WINDOW SCHEDULE

AGENCY

NO. REVISION

PROJECT MANAGER DRAWN BY CHECKED BY PROJECT NUMBER 2371-02 A-204

DOOR TYPES LEGEND

DOOR SCHEDULE

HARDWARE TYPE GROUP 1 UNIT ENTRY DOOR:

ENTRY DOOR HARDWARE:

COMPLIENT PER DETAILS)

WINDOW TYPES LEGEND

PROVIDE SECONDARY LOCKING DEVICE AT ALL

FOR EQUAL SIZE COMPOSITE FRAME WINDOW

HEIGHT

EXISTING ALUMINIM FRAME WINDOWS TO BE REPLACED

OPERABLE FIRST FLOOR WINDOWS.

WINDOW SCHEDULE

SINGLE HUNG

D.S. GLASS

WINDOW NOTES:

ALUMINUM WINDOW

SEE PROJECT SPECIFICATION SHEETS

GROUP 2 SLIDER DOOR HANDLE AND LOCK:

GROUP 3 STORAGE CLOSET DOOR (EXTERIOR)

SLIDING

HEAD HEIGHT

D.S. GLASS

ALUMINUM WINDOW



HEIGHT THICKNESS MATERIAL FIRE RATING HARDWARE SET DETAIL - HEAD DETAIL - JAMB DETAIL - SILL

SCHLAGE INTEGRATED LEVER AND DEAD BOLT, KICK PLATE, FLOOR STOP, EXTERIOR WEATHERSTRIPPING AND

PUSH LEVER TYPE OPERATING HANDLE SECURITY LATCH AND LEVER, 5LBS MAX OPERATING FORCE.

LOCKING LEVER, LATCH, KEYED PER OWNER. PROVIDE SECURITY COVER AT LATCH

THRESHOLD, HINGES, BRUSHED CHROME, DOOR VIEWERS, ASSOCIATED PARTS FOR INSTALLATION IN EXISTING OPENINGS

INTEGRAL LEVER LATCH/DEADBOLT 5LBS MAX OPERATING FORCE DOOR VIEWER HINGES PER DOOR MANUFACTURER DOOR STOP

AND WALL GUARD KICK PLATE PER DETAIL X/X.XX. DOOR SEALS AND WEATHER STRIP, THRESHOLD (COMMERCIAL GRADE ADA

FIXED

HEAD

12/A-602

42/A-602

42/A-602

12/A-602

D.S.GLASS

14/A-602

44/A-602

14/A-602

ALUMINUM WINDOW

JAMB DETAILS - SILL U-VALUE

0.47

13/A-602

43/A-602

43/A-602

13/A-602

REMARKS

FIRE RATED

TEMPERED SAFETY

REMARKS

SECOND FLOOR WINDOWS REQUIRED FALL PREVENTION

SECOND FLOOR WINDOWS REQUIRED FALL PREVENTION

SET

SECURITY

DEVICE

13/A-602

33/A-602

13/A-602

14/A-602

34/A-602

14/A-602

32/A-602

DOOR QUANTITY (VIF)

DOOR QUANTITY (BY TYPE) À1 - ENTŔY - 20 B - SLIDER - 20

E - STORAGE -20 TOTAL 60 DOOR UNITS

DOOR GENERAL NOTES

1. REFER TO GENERAL NOTES ON SHEET G-101 FOR ADDITIONAL REQUIREMENTS

- 2. REFER TO FLOOR PLANS FOR DOOR LOCATIONS. 3. CONTRACTOR TO VERIFY EXACT ROUGH OPENING SIZES WITH DOOR MANUFACTURER SPECIFICATIONS PRIOR TO FABRICATION OF ROUGH
- 4. CONTRACTOR TO VERIFY ACTUAL DOOR SIZES TO FIT FINISH OPENING
- PRIOR TO FABRICATION OF DOOR AND FINISH OPENING. 5. PROVDE NEW DOOR PANEL IN EXISTING OPENING, 6. REPLACE ALL HARDWARE INCLUDING SEAL, HINGES AND LATCH NOT
- LIMITED TO THE ABOVE. 7. REPAIR EXISTING DOOR TRIM, STILE, AND FRAME
- 8. REPLACE EXISTING METAL THRESHOLD PER DETAILS AND SPECIFICATIONS 9. REFER TO DOOR TYPES LEGEND FOR GLAZING.
- 10. REFER TO T24 REPORT FOR GLAZING ENERGY REQUIREMENTS 11. INSTALL PER MANUFACTURERS WRITTEN INSTRUCTIONS
- 12. 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. 13. ALL MAIN ENTRY DOORS TO BE PROVIDED WITH A DEAD BOLT.. 14. ALL GLAZING IN DOORS SHALL BE IMPACT RESISTANT. 15. 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 16. DOOR PRESSURE: ALL DOORS, MAX. EFFORT TO OPERATE = 5LBS.

17. EVERY PRIMARY ENTRANCE TO DWELLING UNIT SHALL BE PROVIDED WITH A DOOR BUZZER, BELL, CHIME OR EQUILAVENT INSTALLATION MOUNTED A

- MAXIMUM OF 48 INCHES ABOVE THE FLOOR CONNECTED TO PERMANENT 18. ALL DOORS SHALL HAVE LEVER TYPE HARDWARE.
- 19. (N) = NOISE DOORS. MIN STC RATING OF 29. 20. ALL EXTERIOR DOORS TO BE PROVIDED OR REPLACED WITH A STANDARD ONE-YEAR GUARANTEE AND ALL SIX SIDES FACTORY PRIMED.
- 21. ALL THRESHOLDS PROVIDED AT EXTERIOR DOORS SHALL BE 1/2" MAX HIGH PER CBC SECTION 11B-404.2.5 22. PROVIDE PRIMED AND PAINTED DOORS PER OWNERS COLOR

HARDWARE GROUPS:

SPECIFICATION

- 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 BYY DOOR MANUFACTURER 10 HINGE, CONST LATCHING BOLT, DUST PROOF STRIKE, STOREROOM LOCK, COORDINATOR, (2) MOUNTING BRACKET, FLOOR STOP, GASKETING,

DOOR REMARKS

- EGRESS DOOR. 2. EQUIPPED W/PANIC HARDWARE.
- 3. INCLUDES SAFETY GLAZING.
- 4. FIRE-RATED DOOR ASSEMBLY. VISION PANELS OR LITES TO RECEIVE WIRE LOUVERED DOOR.
- 6. KICK-PLATE PROVIDED.

APPROVED BY ARCHITECT.

- 7. 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. 8. PROVIDE AND INSTALL METAL UNIT LABELS AT EACH ENTRYY DOOR, MATCH
- DOOR HARDWARE FINISH IN A SANSSARIF FONT CENTURY GOTHIC OR 9. HARDWARE FINISH: ALL HARDWARE INCLUDING PLATES, SCREWS, STOPS, DRIP EDGES STRIKES

VIEWERS, LEVERS ETC TO BE BRUSHED STAINLESS OR EQUAL, PROVIDE

HARDWARE, TO FACTORY FINISH TO MATCH FRAME COLOR) 10. EXTERIOR DOOR SURFACE CLADDING SHALL BE NON-COMBUSTIBLE, NOT BE LESS THAN 1-3/8" THICK AND RAISED PANELS NOT LESS THAN NOT LESS

WITH MANUFACTURER WARRANTY FOR WEAR IN AN EXTERIOR

ENVIRONMENT WHERE APPLICABLE. (EXCLUDING SLIDING DOOR

- THAN 1-1/4" THICK, OR BE OF 20-RATED. 11. ALL MAIN ENTRY DOORS TO BE PROVIDED WITH A DEAD BOLT. 12. ALL GLAZING IN DOORS SHALL BE IMPACT RESISTANT.
- 13. DOOR PRESSURE: ALL DOORS, MAX. EFFORT TO OPERATE = 5 LBS.
- 14. ALL DOORS SHALL HAVE LEVER TYPE HARDWARE. 15. (N) = NOISE DOORS. MIN STC RATING OF 29. 16. 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

- REQUIREMENTS 2. REFER TO FLOOR PLANS FOR WINDOW LOCATIONS.
- 4. 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.
- 7. ALL GLAZING IS DOUBLE PANE UNLESS OTHERWISE NOTED. 8. PROVIDE SHOP DRAWINGS FOR ALL WINDOW UNITS
- 10. REFER TO WINDOW SCHEDULE AND WINDOW TYPES LEGEND FOR FURTHER
- 11. STOREFRONT SECTIONS ARE 2" AND CURTAINWALL SECTIONS ARE 2-1/2", UNO. REFER TO STOREFRONT TYPES LEGEND FOR FURTHER INFORMATION.
- 13. SAFETY GLAZING NOTATED WITH "T"

WINDOW REMARKS

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AGENCY

WINDOW GENERAL NOTES

1. REFER TO GENERAL NOTES ON SHEET G-101 FOR ADDITIONAL

- 3. CONTRACTOR TO VERIFY EXACT ROUGH OPENING SIZES WITH WINDOW
- MANUFACTURER SPECIFICATIONS PRIOR TO FABRICATION OF ROUGH
- 6. REFER TO ENERGY COMPLIANCE REPORTS FOR U-FACTOR, SHGC AND ADDITIONAL WINDOW REQUIREMENTS.
- 9. REFER TO WINDOW TYPES LEGEND FOR GLAZING.
- 12. WINDOWS BETWEEN CONDITIONED AND UNCONDITIONED SPACES SHALL BE CAULKED, GASKETED, WEATHER-STRIPPED OR OTHERWISE SEALED.

 INCLUDES SAFETY GLAZING. 2. EGRESS WINDOW. MUST MEET CBC REQUIREMENTS.

(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 (52 TOTAL)

WINDOW QUANTITY(VIF)

BUILDING TYPE QUANTITY

WINDOW QUANTITY

(BY BUILDING TYPE)

GROUND FLOOR

BLDG A

2A - 12

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

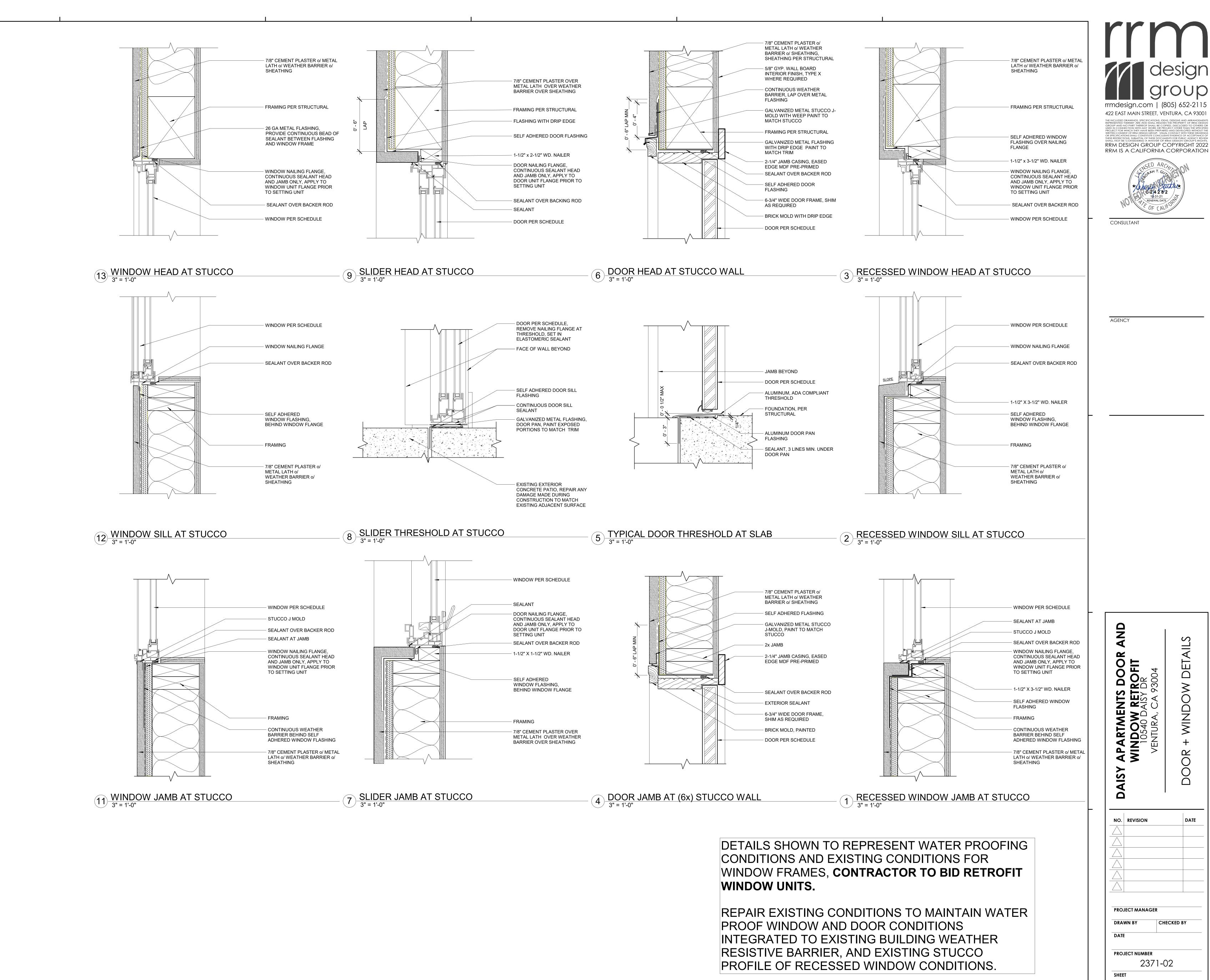
256 TOTAL WINDOW UNITS

NO. REVISION PROJECT MANAGER 2371-02

S

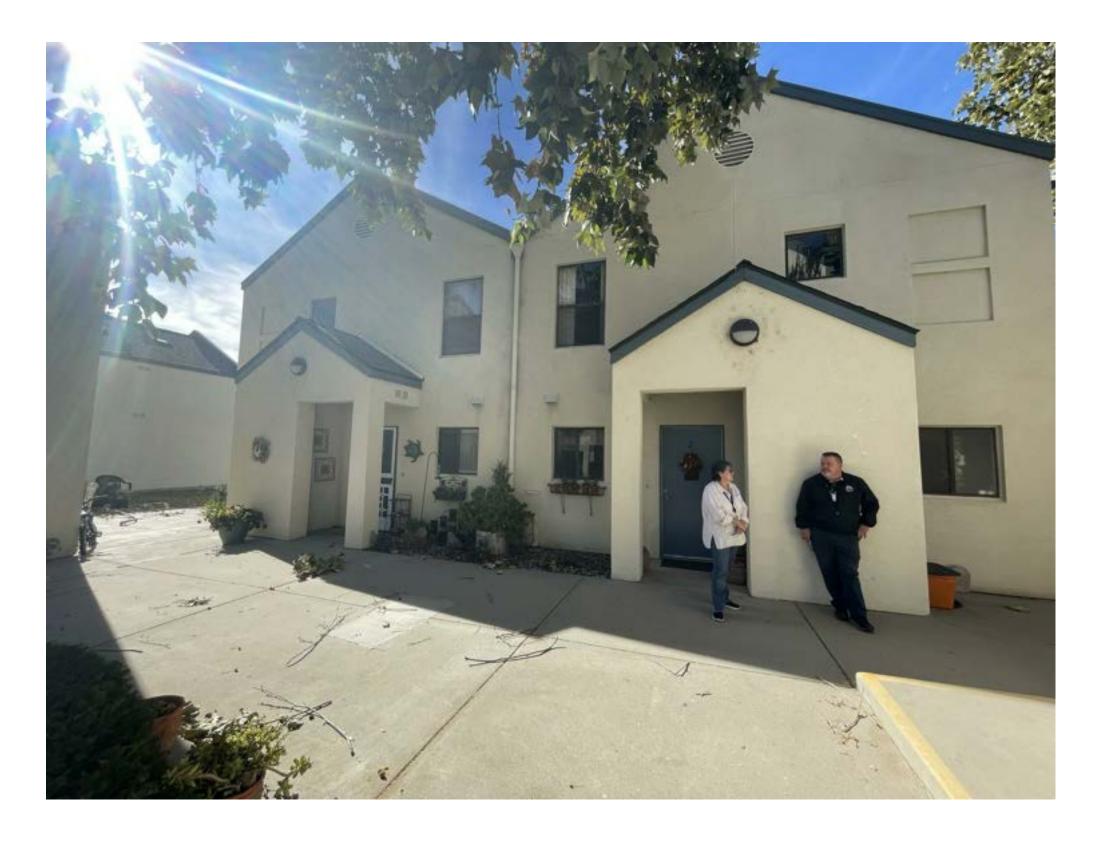
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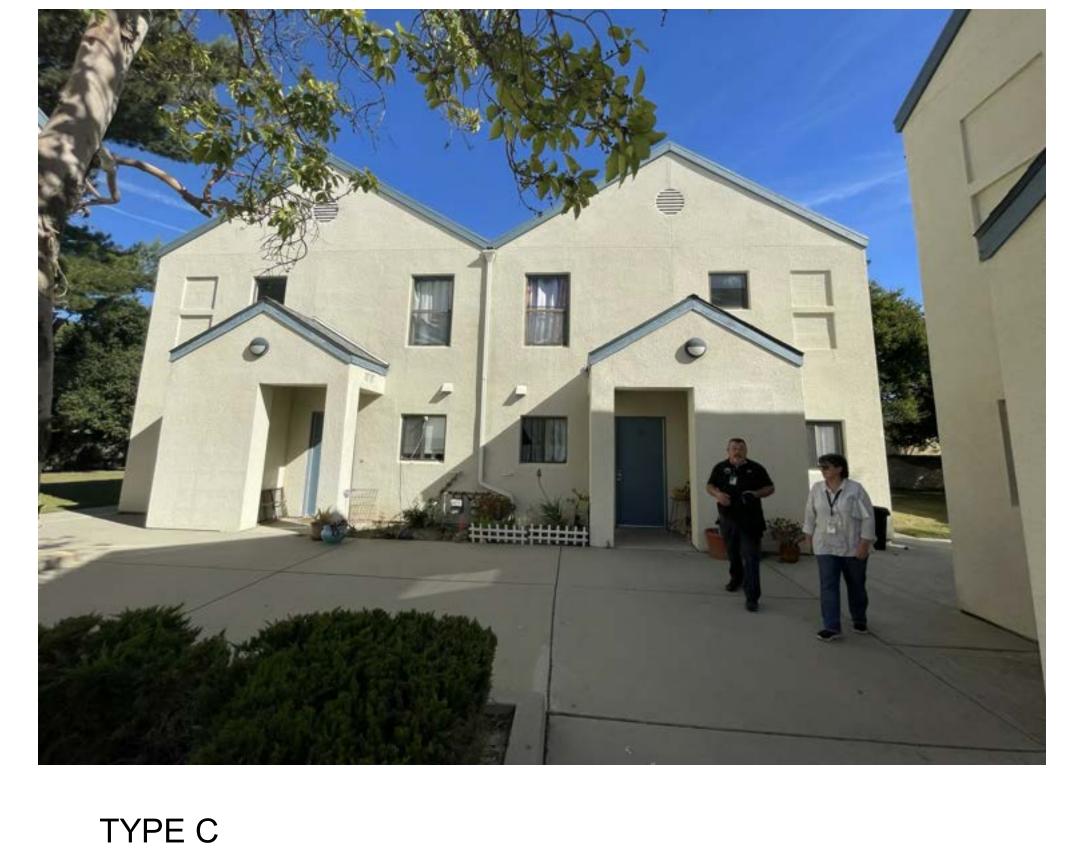
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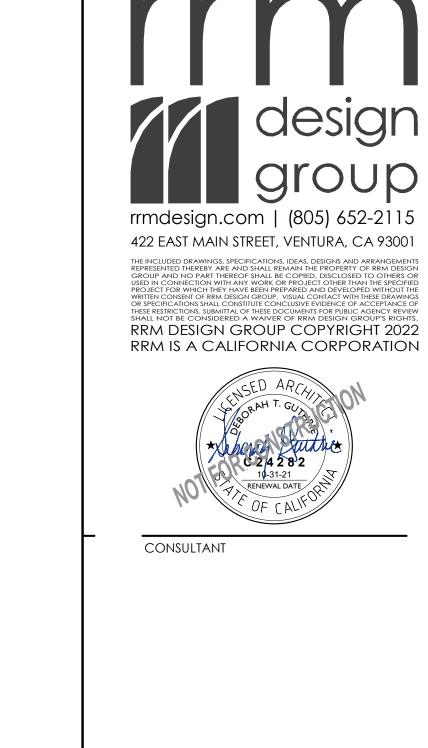
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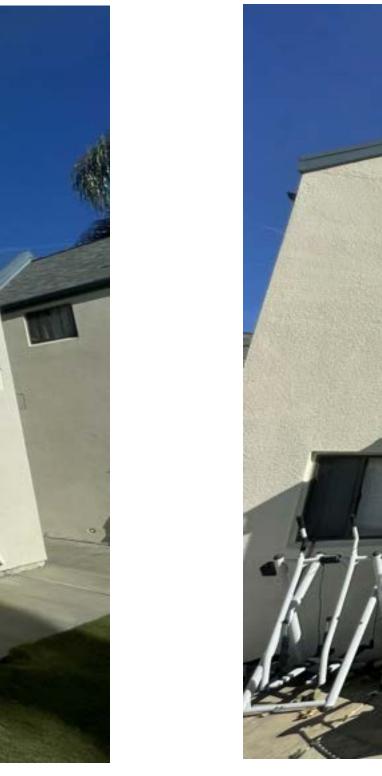








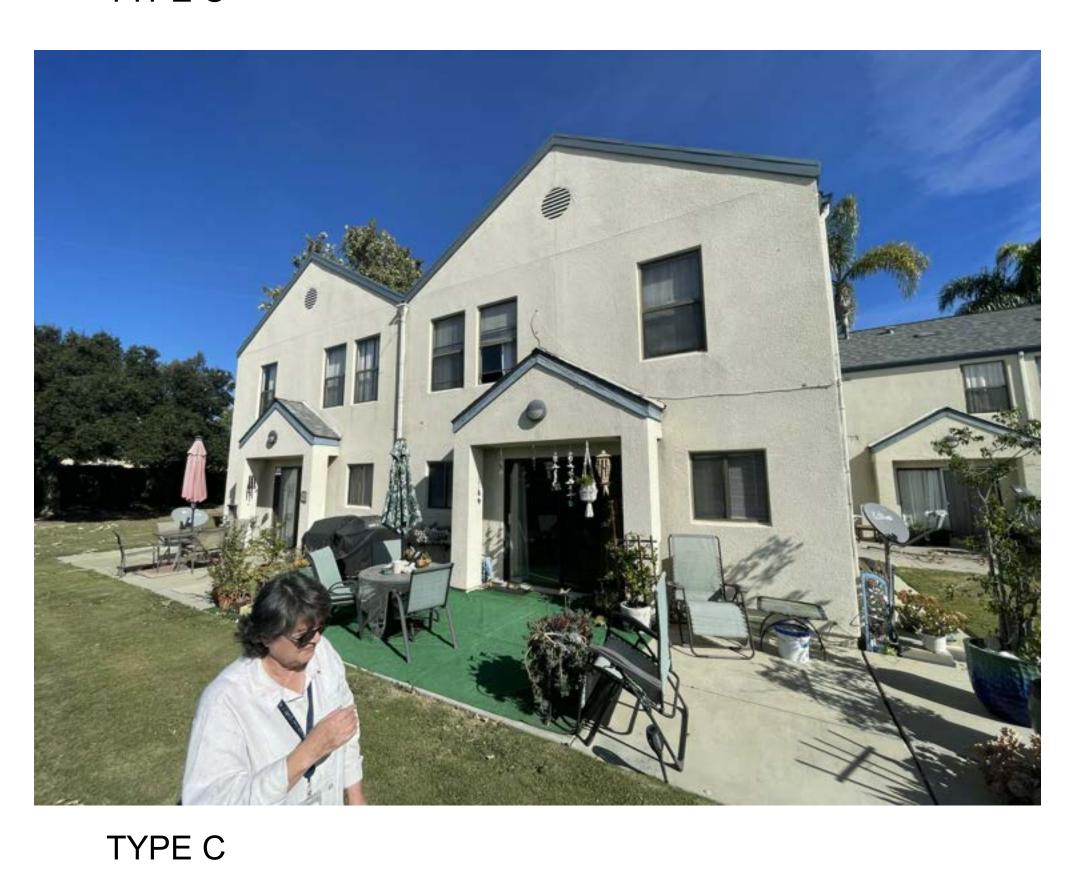
TYPE C



TYPE C



TYPE C



TYPE B

TYPE C

TYPE D

TYPE C

PROJECT MANAGER DRAWN BY

PROJECT NUMBER

2371-02

A-604





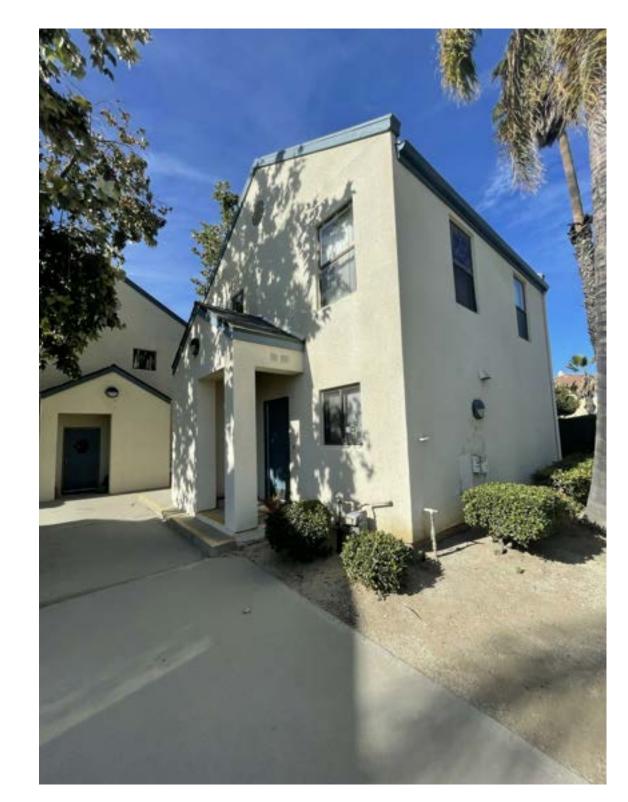




TYPE A TYPE A



TYPE B





TYPE C

TYPE A



DIRECTORY

TYPE B





PARKING LOT

EXISTING SITE PHOTOS BUILDINGS

PROJECT MANAGER

PROJECT NUMBER

2371-02

A-605

DRAWN BY



TYPICAL



TYPICAL



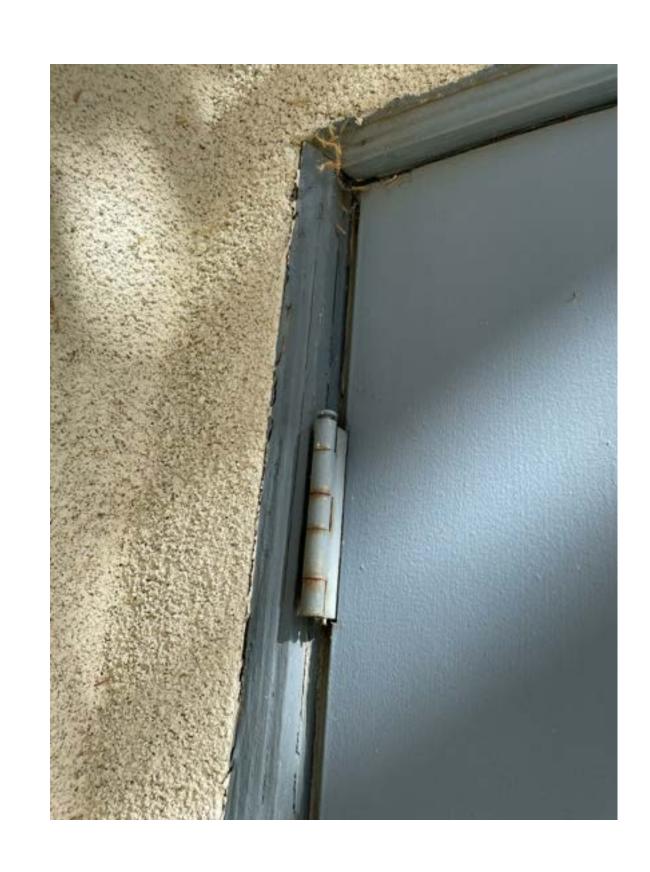
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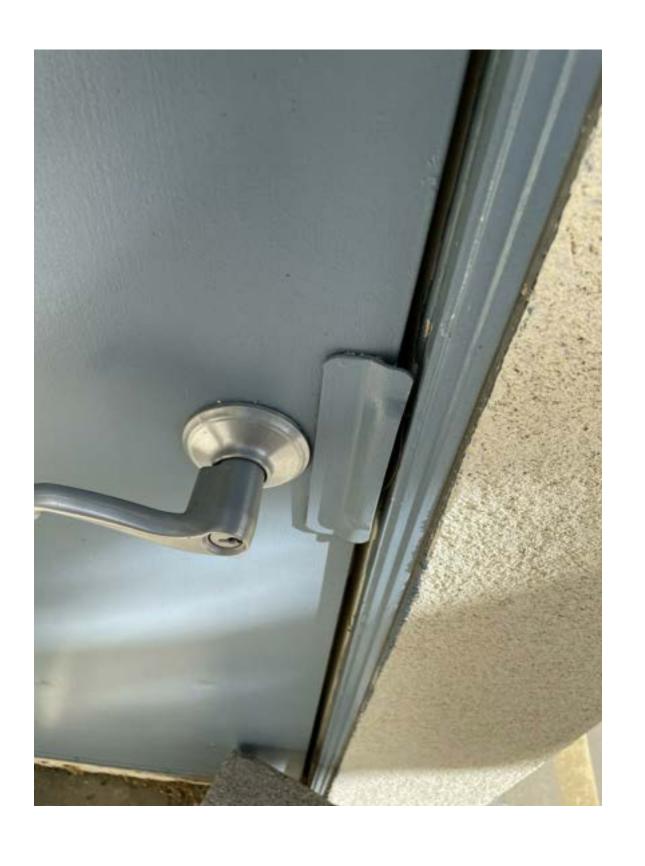




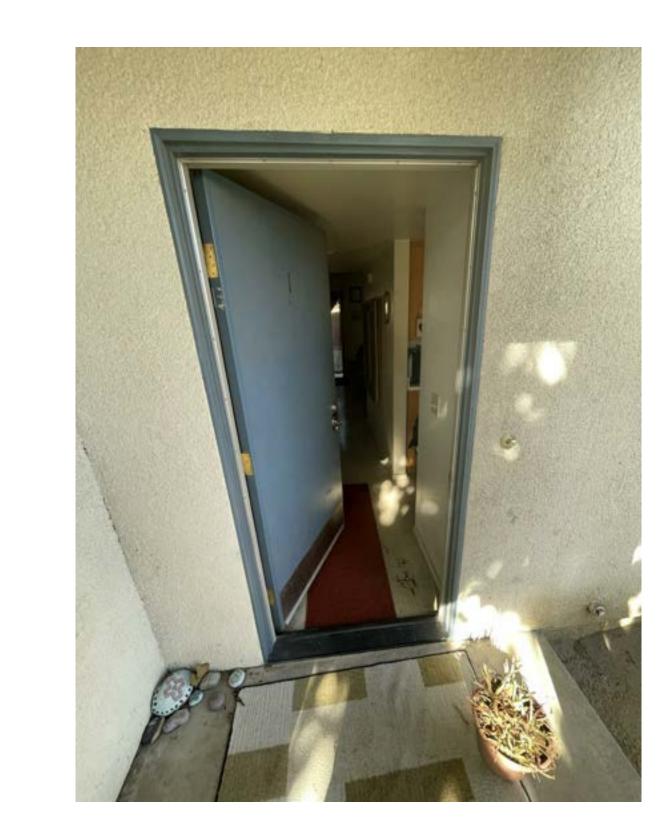
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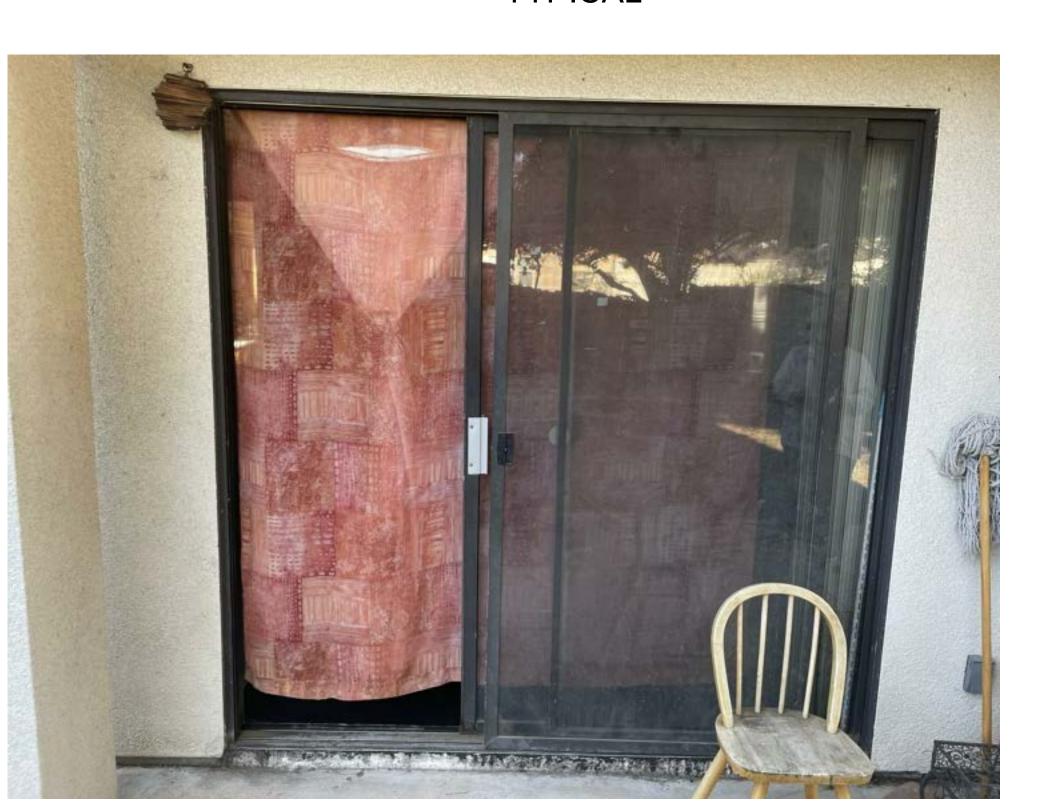
TYPICAL



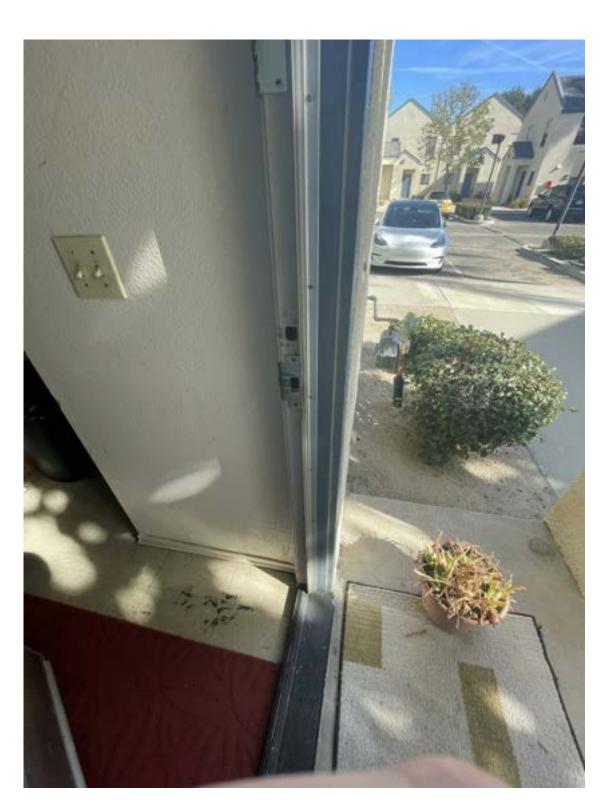
TYPICAL



TYPICAL



TYPICAL



TYPICAL

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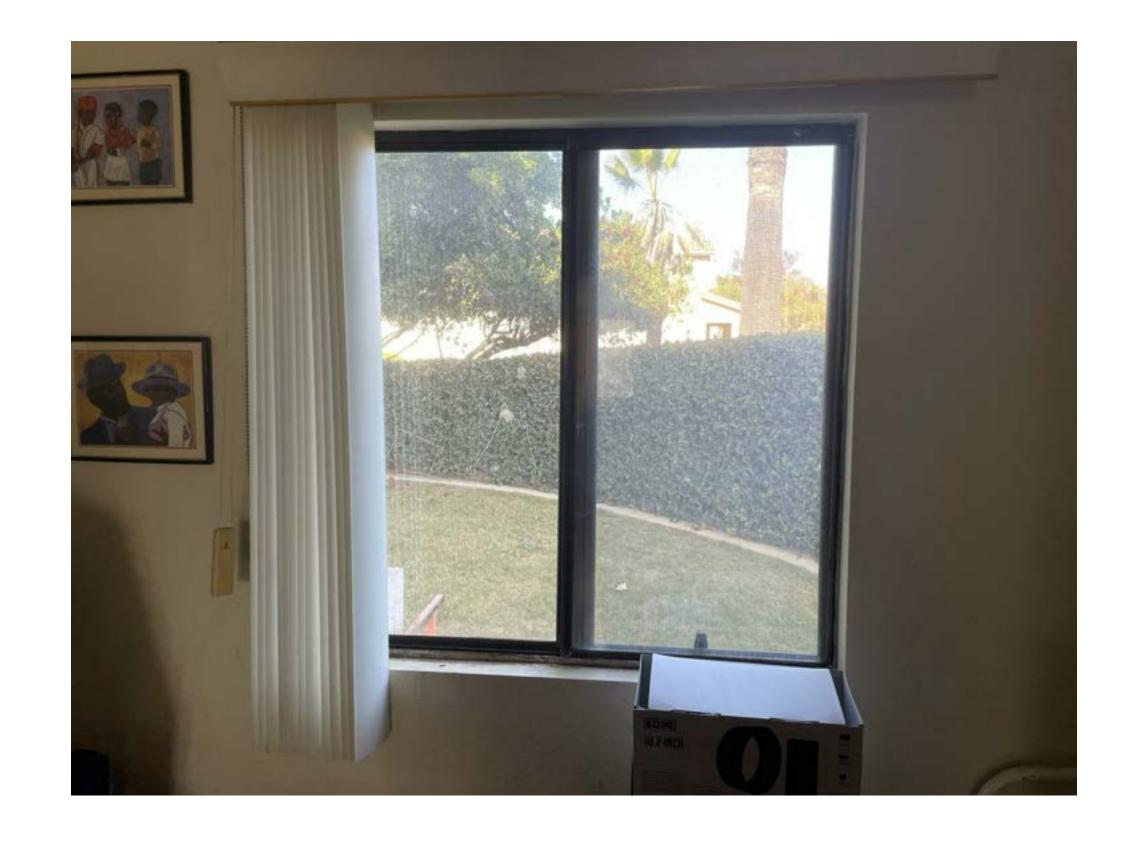


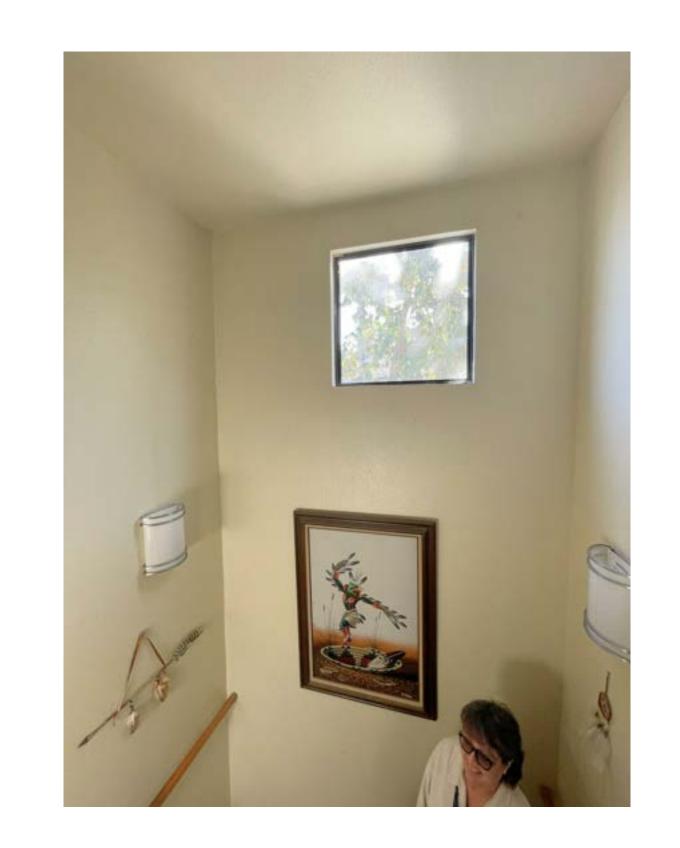




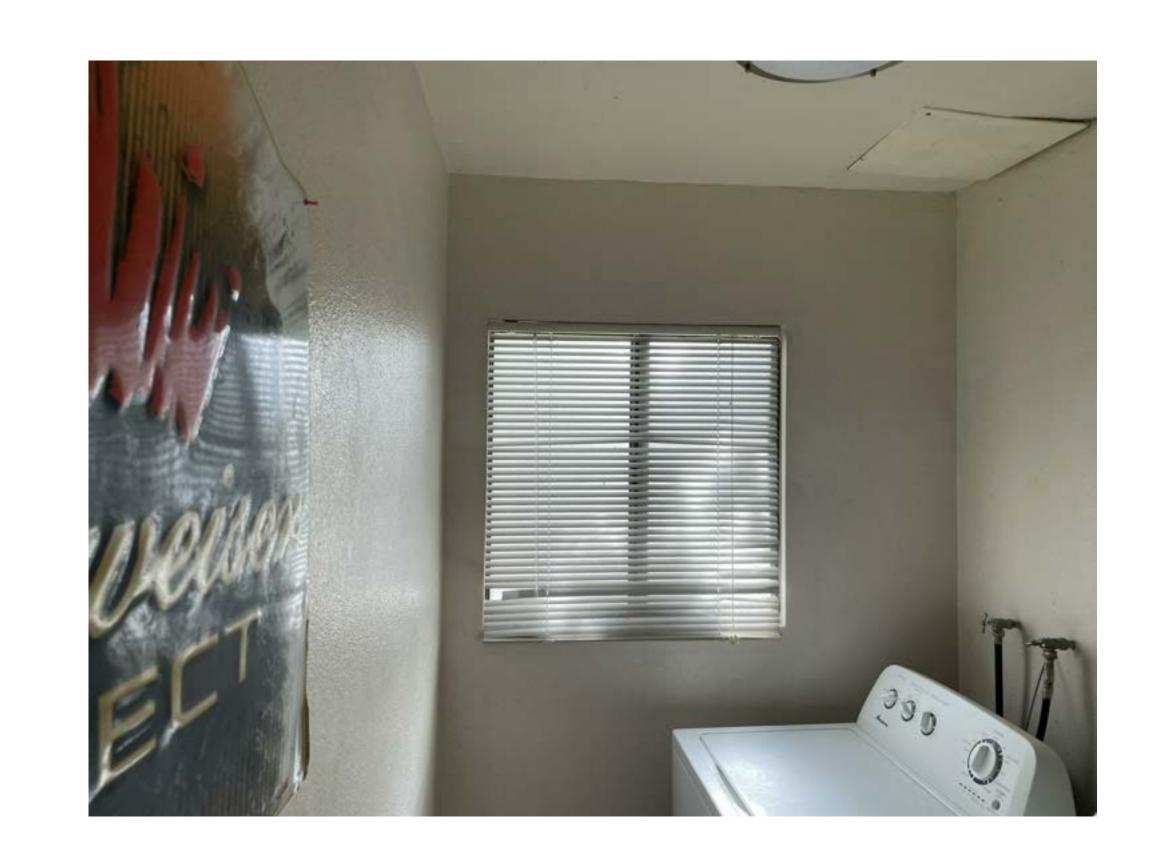


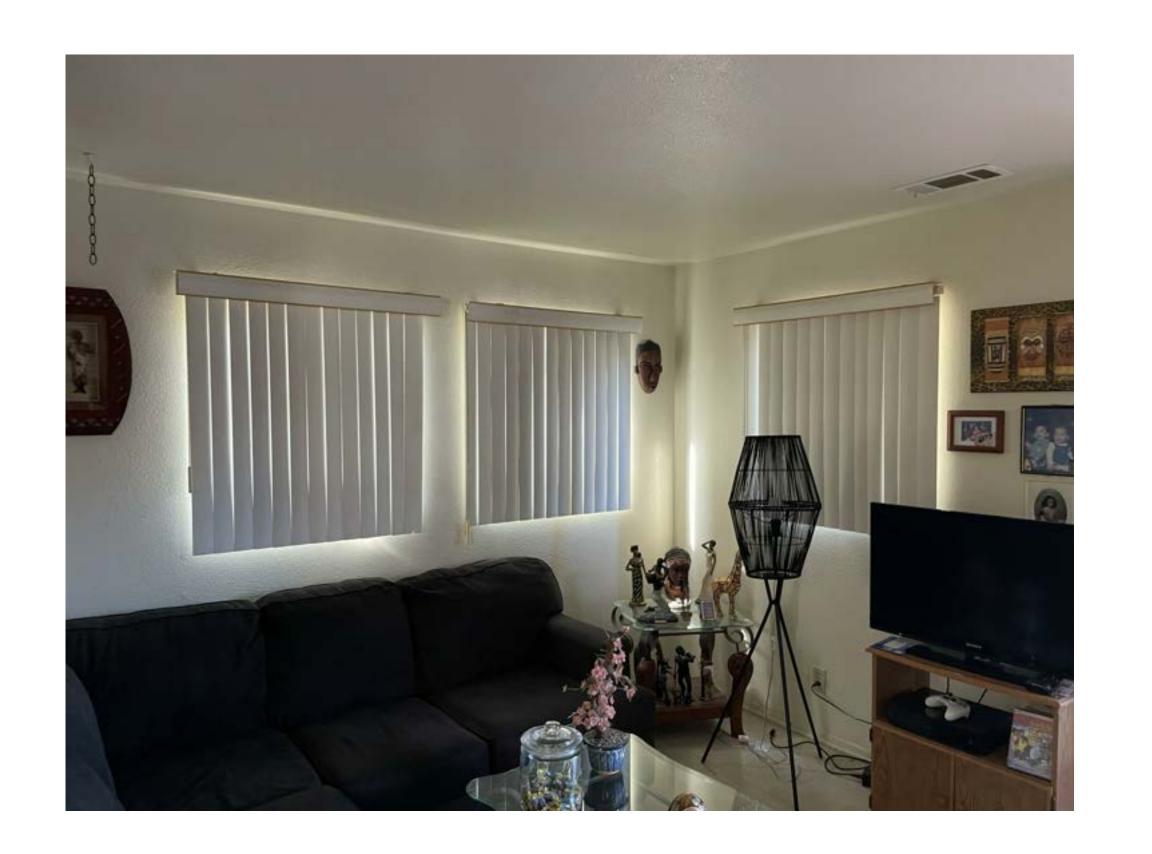














DAISY APARTMENTS DOOR AND
WINDOW RETROFIT
10540 DAISY DR
VENTURA, CA 93004

EXISTING WINDOWS BUILDINGS

A-D

DRAWN BY

PROJECT NUMBER

2371-02

A-607

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