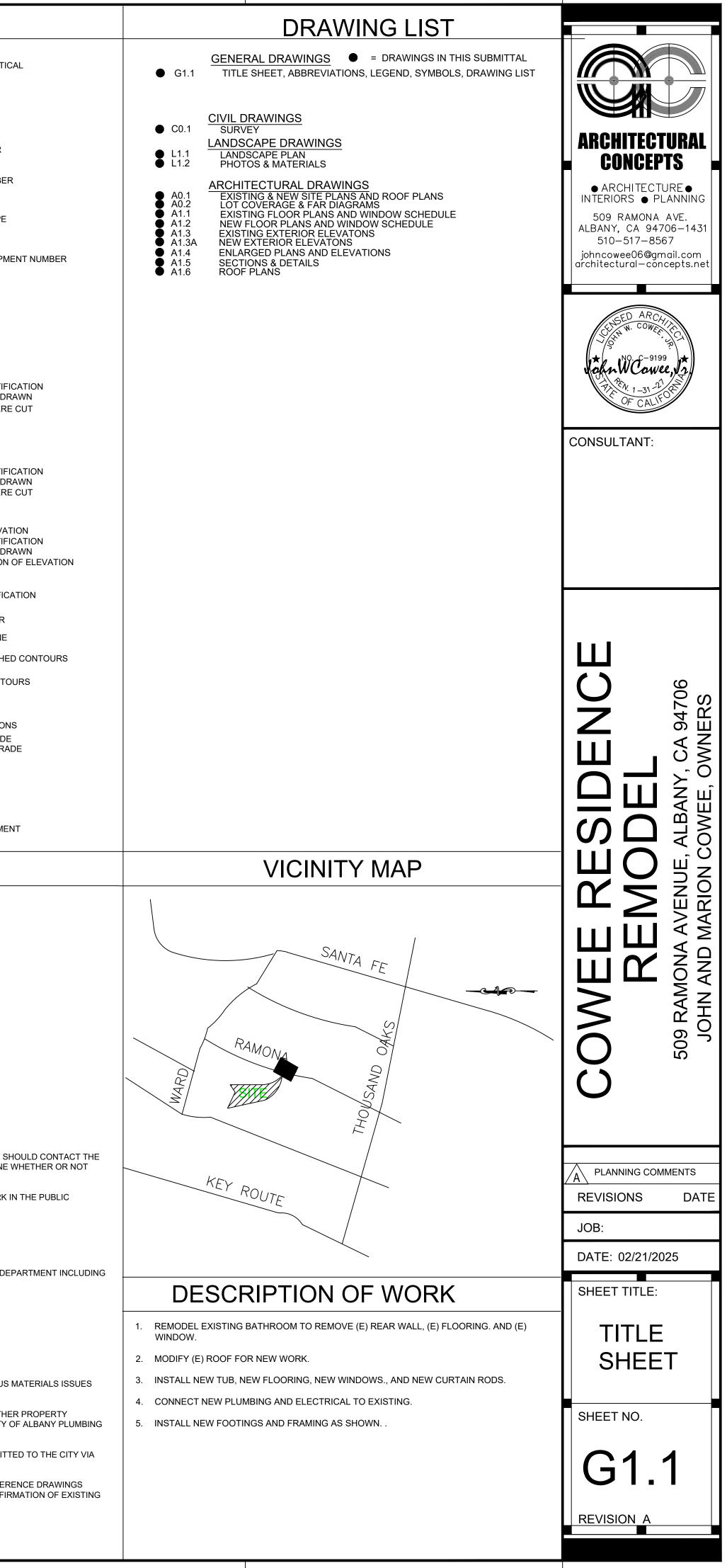
		-\ /I ^ -I					
GENERAL NOTES	ABBRE		IONS	PRCST.	PRECAST	LEGEND	SYMBOLS
1. ALL WORK AND MATERIALS SHALL CONFORM TO THE CURRENT MOST STRINGENT REQUIREMENTS OF THE LATEST EDITIONS OF THE CALIFORNIA BUILDING CODE (CBC),	Ø DIAMETER # POUND OR NUMBER	F.A. F.B.	FIRE ALARM FLAT BAR	PL. P.LAM.	PLATE PLASTIC LAMINATE	BITUMINOUS CONCRETE BRICK	
CALIFORNIA PLUMBING CODE (CPC), CALIFORNIA MECHANICAL CODE (CMC), CALIFORNIA ELECTRICAL CODE (CEC), CALIFORNIA ENERGY CODE, CALIFORNIA FIRE CODE (CFC),	(E) EXISTING	F.D. FDN.	FLOOR DRAIN FOUNDATION	PLAS. PLYWD.	PLASTER PLYWOOD	CERAMIC TILE	
UNIFORM PLUMBING CODE (UPC), UNIFORM MECHANICAL CODE (UMC), NATIONAL ELECTRICAL CODE (NEC), NFPA, ETC.	ACOUS. ACOUSTICAL A.D. AREA DRAIN ADJ. ADJUSTABLE	F.E. F.E.C.	FIRE EXTINGUISHER FIRE EXTINGUISHER CABINET	PR. PT.	PAIR POINT	CONCRETE	GRID LINES
2. EXAMINATION OF THE SITE AND PORTIONS THEREOF WHICH WILL AFFECT THE	AGGR. AGGREGATE AL. ALUMINUM	F.H.C. FIN.	FIRE HOSE CABINET	P.T.D. P.T.D./R	PAPER TOWEL DISPENSER COMBINATION PAPER TOWEL DISPENSER & RECEPTACLE	CONCRETE BLOCK	
CONTRACTOR'S WORK SHALL BE MADE BY THE CONTRACTOR WHO SHALL COMPARE IT IT WITH THE DRAWINGS AND SATISFY HIMSELF/ HERSELF AS TO THE CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED. HE/ SHE SHALL, AT SUCH TIME, ASCERTAIN	APPROX. APPROXIMATELY ARCH. ARCHITECTURAL	FL. FLASH. FLOUR.	FLOOR FLASHING FLUORESCENT	PTN. P.T.R.	PARTITION PAPER TOWEL RECEPTACLE	GYPSUM BOARD	DOOR NUMBER
AND CHECK ALL EXISTING CONDITIONS AND DIMENSIONS WHICH MAY AFFECT HIS/ HER WORK. NO ALLOWANCE SHALL SUBSEQUENTLY BE MADE FOR ANY HIS/HER PART TO	ASB. ASBESTOS ASPH. ASPHALT	F.O.C. F.O.F.	FACE OF CONCRETE FACE OF FINISH	Q.T.	QUARRY TILE	INSULATION BATT	3 WINDOW NUMBER
MAKE SUCH EXAMINATION. ANY CONFLICTS OR OMISSIONS, ETC. EXPENSE TO WHICH HE/ SHE MAY BE PUT DUE TO THE FAILURE OR NEGLECT ON SHALL BE REPORTED TO THE	BD. BOARD BITUM. BITUMINOUS	F.O.S. FPRF.	FACE OF STUD FIREPROOF	R. RAD.	RISER RADIUS	METAL	
OWNER PRIOR TO START OF WORK.	BLDG. BUILDING BLK. BLOCK	F.S. FT.	FULL SIZE FOOT OR FEET FOOTING	R.D. REF.	ROOF DRAIN REFERENCE	E METAL LATH	1 PARTITION TYPE
3. WORK WHICH IS REQUIRED TO BE PERFORMED TO PROVIDE A COMPLETELY USEABLE/ OPERABLE INSTALLATION WITHIN THE SCOPE OF WORK, BUT WHICH IS NOT	BLKG. BLOCKING BM. BEAM BOT. BOTTOM	FTG. FURR. FUT.	FURRING FURRING FUTURE	REFR. RGTR.	REFRIGERATOR REGISTER	MORTAR PLASTER	
SPECIFICALLY NOTED ON THE PLANS OR INCLUDED IN THE SPECIFICATIONS WILL BE PERFORMED AS PART OF THE CONTRACT.	BOT. BOTTOM B.U.R. BUILT-UP ROOFING	GA. GALV.	GAUGE GALVANIZED	REINF. REQ. RESIL.	REINFORCEMENT REQUIRED SILENT		10     KITCHEN EQUIPMENT
4. THE CONTRACTOR SHALL ARRANGE FOR THE PREMISES TO BE MAINTAINED IN AN	CAB. CABINET C.B. CATCH BASIN	G.B. GL.	GRAB BAR GLASS	REGIL: RM. R.O.	ROOM ROUGH OPENING	ROCK FILL	MATCH LINE
ORDERLY MANNER THROUGHOUT THE COURSE OF THE CONSTRUCTION. MAINTAIN CLEANLINESS AND REQUIRED MEANS OF EGRESS/ ACCESS. PROTECT NON-WORK AREAS	CEM. CEMENT CER. CERAMIC	GND. GR.	GROUND GRADE	RWD. R.W.L.	REDWOOD RAIN WATER LEADER	BEREEREE SAND	
FROM DAMAGE WHICH MAY OCCUR FROM NEW WORK. PROVIDE AND MAINTAIN TEMPORARY BARRIERS, CLOSURE WALLS, ETC. AS DEMOLITION, DUST, WATER, AND	C.I. CAST IRON C.G. CORNER GUARD CLG. CEILING	GYP. H.B.	GYPSUM HOSE BIB	S. S.C.	SOUTH SOLID CORE	TERRAZZO	WORK POINT
NECESSARY FOR THE SAFETY OF THE PUBLIC AND THE EMPLOYEES DAMAGE TO EXISTING STRUCTURES AND EQUIPMENT SHALL BE REPAIRED TO THE SATISFACTION OF	CLG. CEILING CLKG. CAULKING CLO. CLOSET	H.C. HDR.	HOLLOW CORE HANDRAIL	S.C.D. SCHED.	SEAT COVER DISPENSER SCHEDULE	WOOD FINISH	
THE OWNER AT THE EXPENSE OF THE CONTRACTOR.	CLR. CLEAR C.O. CASED OPENING	HDWD. HDWE. HGT.	HARDWOOD HARDWARE HEIGHT	S.D. SECT. SH.	SOAP DISPENSER SECTION SHELF	WOOD FRAMING	A SECTION SECTION IDENTIFICA
5. PROVIDE ALL NECESSARY PERSONNEL, EQUIPMENT, AND TEMPORARY BARRICADES TO PROTECT THE PUBLIC DURING EXCAVATION WORK. PROTECT STRUCTURES,	COL. COLUMN CONC. CONCRETE	H.M. HORIZ.	HOLLOW METAL HORIZONTAL	SHR. SHT.	SHELF SHOWER SHEET		A2.1 SHEET WHERE DRAW
SIDEWALKS, PAVEMENT, FENCES, BENCHES, AND FACILITIES WITHIN OR ADJACENT TO THE CONSTRUCTION SITE FROM DAMAGE DUE TO SETTLEMENT, UNDERMINING, WASHOUT, OR OTHER HAZARDS CREATED DURING EARTHWORK OPERATIONS. MAINTAIN	CONN. CONNECTION CONST. CONSTRUCTION CONT. CONTINUOUS	HR. I.D.	HOUR INSIDE DIAMETER	SIM. S.N.D.	SIMILAR SANITARY NAPKIN DISPENSER	EXISTING WALLS	
BENCH MARKS, MONUMENTS, AND OTHER REFERENCE POINTS. REPAIR BROKEN OR CRACKED SIDEWALK CURB AND GUTTER DAMAGE DUE TO EARTHWORK.	CONT. CONTINUOUS CORR. CORRIDOR CTSK. COUNTERSUNK	INSUL. INT.	INSULATION INTERIOR	S.N.R. SPEC.	SANITARY NAPKIN RECEPTACLE SPECIFICATION	DEMOLISHED WALLS	
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING LEFT OVER MATERIALS.	CNTR. COUNTER CTR. CENTER	JAN.	JANITOR	SQ. S.ST S.SK.	SQUARE STAINLESS STEEL SERVICE SINK	NEW WALLS	4 A3.1 DETAIL SECTION IDENTIFICA SHEET WHERE DRAW
DEBRIS, TOOLS, AND EQUIPMENT INVOLVED AT THE CONCLUSION OF THE INSTALLATION. HE/ SHE SHALL LEAVE THE ALL AREAS CLEAN AND IN PERFECT CONDITION. ALL	DBL. DOUBLE	JT. KIT.	JOINT KITCHEN	STA. STD.	STATION STANDARD		A3.1 SHEET WHERE DRAV LOCATION WHERE CI
FIXTURES AND REUSABLE MATERIALS TO BE REMOVED ARE TO BE STORED AND DISPOSED OF PER THE OWNER'S DIRECTION.	DEPT. DEPARTMENT D.F. DRINKING FOUNTAIN	LT.	LIGHT	STL. STOR.	STEEL STORAGE		
7. THE CONTRACTOR SHALL NOTIFY THE OWNER IMMEDIATELY OF ANY UTILITIES FOUND	DET. DETAIL DIA. DIAMETER DIM. DIMENSION	MAX. M.C. MDF	MAXIMUM MEDICINE CABINET MEDILIM DENSITY FIREPROARD	STRL. SUSP.	STRUCTURAL SUSPENDED	CONSULTANTS	
IN MATERIAL TO BE REMOVED. ARRANGE AND PAY FOR DISCONNECTING, REMOVING, AND CAPPING UTILITY SERVICES WITHIN AREAS OF DEMOLITION OF EXCAVATION.	DISP. DISPENSER DN. DOWN	MDF MECH. MEMB.	MEDIUM DENSITY FIBERBOARD MECHANICAL MEMBRANE	SYM.	SYMMETRICAL	CONSOLIANTS	A2.1 A2.1 PLAN INDICATION OF
CUTBACK, CAP, DISCONNECT, AND IDENTIFY ALL SERVICES WHICH ARE NOT TO BE USED. NOTIFY THE AFFECTED UTILITY COMPANY IN ADVANCE OF STARTING THIS WORK AND	D.O. DOOR OPENING DR. DOOR	MET. MFR.	METAL MANUFACTURER	TRD. T.B.	TREAD TOWEL BAR	TITLE-24 CONSULTANT: (NOT USED)	S BEDROOM ROOM IDENTIFICATI
OBTAIN THEIR APPROVAL. OBTAIN NECESSARY PERMITS FROM THE STATE OF CALIFORNIA DIVISION OF INDUSTRIAL SAFETY IF A PERSON IS REQUIRED TO DESCEND	DWR. DRAWER D.S. DOWNSPOUT	MH. MIN.	MANHOLE MINIMUM	T.C. TEL. TER.	TOP OF CURB TELEPHONE TERRAZZO		102 ROOM NAME
INTO TRENCHES OR EXCAVATIONS 5 FEET OR MORE IN DEPTH PRIOR TO COMMENCEMENT OF GRADING AND BUILDING WORK.	D.S.P. DRY STANDPIPE DWG. DRAWING	MIR. MISC. M.O.	MIRROR MISCELLANEOUS	TER. T.&G. THK.	TERRAZZO TONGUE & GROOVE THICK		
8. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS SHALL ALWAYS TAKE PRECEDENCE OVER SCALED DIMENSIONS.	E. EAST EA. EACH	M.O. MTD. MUL.	MASONRY OPENING MOUNTED MULLION	T.P. T.P.D.	TOP OF PAVEMENT TOILET PAPER DISPENSER		720 NEW OR FINISHED C
9. DIMENSIONS SHOWN ON PLANS ARE TO CENTER OF COLUMN, FACE OF STUDS AT	E.J. EXPANSION JOINT EL. ELEVATION	N.	NORTH	T.V. T.W.	TELEVISION TOP OF WALL		685 — EXISTING CONTOUR
INTERIOR PARTITIONS, AND FACE OF FINISH OR FACE OF CONCRETE AT EXTERIOR AND SHEAR WALLS, OR FACE OF FINISH FOR CLEAR DIMENSIONS OR DIMINSIONS FROM (E)		N.I.C. NO. or# NOM.	NOT-IN-CONTRACT NUMBER NOMINAL	TYP. UNF.	TYPICAL		
SURFACES UNLESS OTHERWISE NOTED OR INDICATED.	ELEC. ELECTRICAL ELEV. ELEVATOR ENCL. ENCLOSURE	N.T.S. O.A.	NOT-TO-SCALE OVERALL	U.O.N. UR.	UNESS OTHERWISE NOTED		685 SPOT ELEVATIONS
10. FLOOR ELEVATIONS AND PLAN DIMENSIONS OF EXISTING AND NEW CONSTRUCTION ARE BASED ON FIELD MEASUREMENTS AND SURVEY DATA AND MUST BE VERIFIED BY	EMERG. EMERGENCY E.P. ELECTRICAL PANELBOARD	O.A. OBS. O.C.	OVERALL OBSCURE ON CENTER	VERT. VEST.	VERTICAL VESTIBULE		720 EXISTING GRADE NEW FINISH GRADE
THE CONTRACTOR PRIOR TO COMMENCEMENT OF WORK.	EQ. EQUAL EQPT. EQUIPMENT	O.D. OFF.	OUTSIDE DIAMETER OFFICE	W.	WEST		T.W. 721 TOP OF WALL
11. DOOR OPENINGS NOT LOCATED BY DIMENSION SHALL BE CENTERED ON THE WALL AS SHOWN OR SHALL BE LOCATED 4" FROM FINISH JAMB TO FACE OF STUD.	E.W.C. ELECTRIC WATER COOLER EXIST. EXISTING	OPNG. OPP.	OPENING OPERABLE	W/ W.C. WD.	WITH WATER CLOSET WOOD		T.C. 722 TOP OF CURB
12. FINAL LOCATION OF ALL MECHANICAL EQUIPMENT AND ELECTRICAL EQUIPMENT,	EXPO. EXPOSED EXP. EXPANSION EXT. EXTERIOR			WD. W/O WP.	WOOD WITHOUT WATERPROOF		
PANEL BOARDS, METERS, FIXTURES, FLUES, VENTS, ETC., SHALL BE APPROVED BY THE OWNER AND ARCHITECT PRIOR TO INSTALLATION. DESIGN AND LAYOUT OF ALL	EXT. EXTERIOR			WSCT. WT.	WAINSCOT WEIGHT		T.P. 723 TOP OF PAVEMENT
MECHANICAL AND ELECTRICAL SYSTEMS IS THE RESPONSIBILITY OF THE CONTRACTOR SUBJECT TO REVIEW BY THE OWNER PRIOR TO INSTALLATION. CONTRACTOR SHALL PROVIDE ALL FURRED CEILINGS, WALLS, AND SOFFITS NECESSARY TO SUIT				PRO	JECT INFORM	ATION	
MECHANICAL/ ELECTRICAL EQUIPMENT INSTALLATION.	GENERAL INFORMATION		-				
13. ALL NEW PARTITIONS AROUND TOILETS AND CORRIDORS SHALL EXTEND TO THE STRUCTURE ABOVE TO PREVENT SOUND TRANSMISSIONS OVER WALLS.				POSED	TITLE	COWEE RESIDENCE REMODEL	
14. EXTEND ALL SOUND RATED PARTITIONS TO THE STRUCTURE ABOVE. FURNISH 4-1/4 LB. DENSITY GLASS FIBER INSULATION SHAPED TO FIT TIGHT SPACES. WALL MATERIAL	Dwelling Unit Square Footage (Total) Bedroom Count		1,494 SF	1,554 SF 3	ADDRESS}	509 RAMONA AVENUE, ALBANY,	CA 94706
SHALL FIT TIGHT TO THE CONFIGURATION OF THE STRUCTURE ABOVE TO PREVENT SOUND TRANSMISSION OVER WALL.	Bathroom Count		2	2	CODES		(2022 CRC), CALIFORNIA BUILDING
15. VERIFY OPENINGS FOR PIPES AND DUCTS WITH MECHANICAL DRAWINGS AND	SITE REGULATIONS BY DISTRICT					CODE (2022 CBC), CALIFORNIA P CALIFORNIA MECHANICAL CODE	E (2022 CMC), CALIFORNIA ELECTRICAL
PROVIDE AS NECESSARY.		EXISTING		IREMENT			NERGY CODE (2022T-24), CALIFORNIA NIA GREEN BUILDING CODE (2022
16. ALL INTERIOR WALLS OVER 8'-0" HIGH AND ALL PLUMBING WALLS SHALL BE DOUBLE 2 X 4 NOMINAL STUDS OR 2 X 6 NOMINAL STUDS AT 16" O.C. ALL INTERIOR, AND	Setbacks					CGBC), CITY OF ALBANY MUNICIF	,
NONBEARING INTERIOR PARTITIONS SHALL BE STIFFENED AS NECESSARY, AND COVERED WITH 5/8" GYPSUM WALLBOARD TYPICAL EACH SIDE AND MAY BE OF 2 X 4 NOMINAL WOOD STUDS AT 16" O.C. UP TO 10'-0" HIGH (SEE PARTITION TYPES). FULL	Front Yard - West LeftYard - North	<u>15.00</u> f 3.89 f		<u>15.00 ft r</u> 3.60 ft r	min		
HEIGHT PARTITIONS SHALL BE STIFFENED AS NECESSARY AND COVERED WITH 5/8" GYPSUM WALLBOARD TYPICAL AND 5/8" TYPE "X" GYPSUM WALLBOARD 1-HOUR	Rear Yard - East Right Yard - South	20.00 f 7.92 f		20.00 ft r 3.60 ft r		PE V-B R-1	
CONSTRUCTION AT GARAGE.	Maximum Height	16'-11" f		26'-0" ft r	1001.		
17. ALL FREE STANDING COLUMNS WITHIN SPACES SHALL BE FINISHED WITH THE FINISH SCHEDULED FOR WALLS UNLESS OTHERWISE SHOWN OR DETAILED.	AREA & COVERAGE CACULATION				ZONE:	R-1	
18. INSTALL TRANSITION STRIPS AT JUNCTION OF DIFFERENT FLOORING MATERIALS. AT	Lot Size	EXISTING 3,600 s		IREMENT 3,750 sfr		IS IN DISREPAIR SHALL BE REPLACED IN ACCORDANCE WITH CIT	
OPENINGS PLACE TRANSITION STRIPS UNDER CENTERLINE OF DOOR. PROVIDE CHANGE OF COLOR TRANSITION STRIPS AT THE TOP AND BOTTOM OF ALL STAIRS PER ADA REQUIREMENTS	Lot Coverage area (sq. ft.)f	1,723 s		1980 sfr	CITY OF ALBANY ENG	SINEERING INSPECTOR AT (925) 981-7500 TO SCHEDULE AN APPOI AIR IS REQUIRED.	NTMENT TO REVIEW SIDEWALK CONDITIONS TO DETERMINE WH
19. WHERE ADJOINING ROOMS HAVE COMPOSITION FLOORING OF DIFFERENT COLORS.	Lot Coverage (lot overage / lot size)	47.9%	48.7%	55% ma		RMIT WILL BE REQUIRED FOR CONSTRUCTION STAGING, CONSTR ENGINEERING PERMIT CAN BE ISSUED AFTER THE BUILDING PER	
MAKE CHANGE UNDER CENTERLINE OF DOOR.							
20. CAST-IN-PLACE CONCRETE SHALL BE FINISHED AS SPECIFIED.	<b>FLOOR AREA RATIO CALCULATIO</b> 1. Total Floor Area (sq. ft.)	NS			3. AUTOMATIC SPRINKLI 4. MANUAL FIRE ALARM		
21. WHERE PLASTER OR CERAMIC TILE ABUTS METAL FRAMES PROVIDE CASING BEADS.	a. Lower Level b. Main Level	209 s 1,285 s			5. PORTABLE FIRE EXTIN	NGUISHERS EXISTING WITH A MINIMUM RATING OF 2A:10	BC. INSTALLED IN LOCATIONS AS APPROVED BY THE FIRE DEPA
22. ALL PARTITIONS AROUND SHAFTS SHALL EXTEND FROM FLOOR TO STRUCTURE ABOVE.	c. Second Floor d. Covered Porch, Decks, Patios	0 s 44 s	sf sf		6. EXITING AND EXIT LIG		TCHEN. ODE, CHAPTER 10. SEE ALSO "E" SERIES DRAWINGS.
	e. Accessory Structures, incl. Adu's Total Floor Area		sf 394 sf		7. EXIT PLANS	N/A	USE, OTHER TO, OLE ALOU E SERIES DRAWINGS.
DEFERRED WORK	2. Specific Floor Area (sq. ft.) included	in Section 1.	Total Floor Area above		8. OCCUPANT LOAD SIG		
	a. Covered Parking b. Max. Stairwell Footprint	220 s 0 s	sf 0 sf		9. DECORATIVE MATERI	ALS ALL INTERIOR MATERIALS ARE REQUIRED TO	D BE FLAME RETARDANT.
	c. ADU (not JADU) 3. Deductions (sq. ft.)3.	0 s	sf 0 sf		10. FIRE DEPARTMENT SU	JBMITTAL PRIOR TO SUBMITTAL CONTACT THE HAZARI WITHIN THE BUILDING OR OCCUPANCY ARE	DOUS MATERIALS OFFICE TO VERIFY THAT ANY HAZARDOUS MA CLEARED.
	Enter 220 or the number incolumn 2.a.				11. WATER CONSERVING	FIXTURES: ALL PLUMBING FIXTURES MUST BE WATER-C	CONSERVING PLUMBING FIXTURES REGARDLESS OF WHETHER I
	a. Covered Parking Enter 60 or the number incolumn 2.b. w	220 s hichever is le:			—	UNDERGOES ADDITIONS, ALTERATIONS, OR FIXTURE CERTIFICATE OF COMPLIANCE.	IMPROVEMENTS. PLEASE COMPLETE AND SUBMIT THE CITY OF
	b. Max. Stairwell Footprint Enter the total area of al ADU''s in colu	0 s	sf 0 sf	enter 0	12. CONSTRUCTION MAN	AGEMENT PLAN OWNER/CONTRACTOR TO PROVIDE AN APPF GREEN HALO.	ROVED CONSTRUCTION WASTE MANAGEMENT PLAN SUBMITTED
	c. ADU (not JADU)	0 క	sf 0 sf		13. EXISTING ACCESSIBIL	ITY FEATURES ARCHITECT OF RECORD TO CHECK AND CON	NFIRM ANY ACCESSIBILITY FEATURES SHOWN IN THE REFEREN
	Total Deduction 4. Total FAR square footage (sq. ft.)	220 s	sf   220 sf				SUED. SUBMITTED PLANS MUST INCLUDED DETAILED CONFIRMA REQUIRED DISABLED ACCESS IMPROVEMENTS.
	5. Total Floor Area Ration (FAR)	al 1,712 s	sf 1,772 sf	1,980 ma	ax sf.		
	5. Total Floor Area Ration (FAR) Section 4 total divided by lot size	47.6%	49.2%	55% ma	ах		



# California 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE RESIDENTIAL MANDATORY MEASURES. SHEET 1 (July 2024 Supplement)

CHAPTER 3	A RESPON. PARTY	4.106.4.2 New multifamily d
GREEN BUILDING SECTION 301 GENERAL		When parking is provided, pa requirements of Section 4.10
<b>301.1 SCOPE.</b> Buildings shall be designed to include the green building measures specified as mandatory in		parking space served by ele- least one standard automobil space requirements establis
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.		4.106.4.2.1 Reserved
<b>301.1.1 Additions and alterations. [HCD]</b> The mandatory provisions of Chapter 4 shall be applied to additions or alterations of existing residential buildings where the addition or alteration increases the		4.106.4.2.2 Multifami
building's conditioned area, volume, or size. The requirements shall apply only to and/or within the specific area of the addition or alteration.		1. EV ready pa a. Hotels
The mandatory provision 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		with low b. Multifi
4.106.4.3 for application. <b>Note:</b> Repairs including, but not limited to, resurfacing, restriping and repairing or maintaining existing		equipped this secti
lighting fixtures are not considered alterations for the purpose of this section. <b>Note:</b> On and after January 1, 2014, residential buildings undergoing permitted alterations, additions, or		assigned parking s
improvements shall replace noncompliant plumbing fixtures with water-conserving plumbing fixtures. Plumbing fixture replacement is required prior to issuance of a certificate of final completion, certificate		Exact autorial Co
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.		c. Recep
301.2 LOW-RISE AND HIGH-RISE RESIDENTIAL BUILDINGS. [HCD] The provisions of		determir enforcin
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		E
high-rise buildings, no banner will be used.		d. Rece
SECTION 302 MIXED OCCUPANCY BUILDINGS		the follow
<b>302.1 MIXED OCCUPANCY BUILDINGS.</b> In mixed occupancy buildings, each portion of a building shall comply with the specific green building measures applicable to each specific occupancy. Exceptions:		2. 3.
<ol> <li>[HCD] Accessory structures and accessory occupancies serving residential buildings shall comply with Chapter 4 and Appendix A4, as applicable.</li> <li>[HCD] For purposes of CALGreen, live/work units, complying with Section 419 of the California</li> </ol>		2. EV ready pa
<i>Building Code</i> , shall not be considered mixed occupancies. Live/Work units shall comply with Chapter 4 and Appendix A4, as applicable.		a. Hotels with Leve with J17
DIVISION 4.1 PLANNING AND DESIGN ABBREVIATION DEFINITIONS:		b. Multifa equipped
HCD Department of Housing and Community Development BSC California Building Standards Commission		equipped EV charg
DSA-SS Division of the State Architect, Structural Safety OSHPD Office of Statewide Health Planning and Development LR Low Rise		for use b Where lo
HR     High Rise       AA     Additions and Alterations       N     New		the minir the maxi and any
CHAPTER 4		simultand have a m less than
RESIDENTIAL MANDATORY MEASURES		4.106.4.2.2.1 Electric
SECTION 4.102 DEFINITIONS		Electric vehicle chargi comply with Section 4
<b>4.102.1 DEFINITIONS</b> The following terms are defined in Chapter 2 (and are included here for reference)		Exception: Electric ve shall not be required t requirements.
<b>FRENCH DRAIN.</b> A trench, hole or other depressed area loosely filled with rock, gravel, fragments of brick or similar pervious material used to collect or channel drainage or runoff water.		4.106.4.2.2.1.1 Electr and location.
<b>WATTLES.</b> Wattles are used to reduce sediment in runoff. Wattles are often constructed of natural plant materials such as hay, straw or similar material shaped in the form of tubes and placed on a downflow slope. Wattles are also		EVCS spaces shall be
used for perimeter and inlet controls. 4.106 SITE DEVELOPMENT		1. The minimum le 2. The minimum v
<b>4.106.1 GENERAL.</b> 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.		3. One in every 25 aisle. A 5-foot ( EVCS space is
<b>4.106.2 STORM WATER DRAINAGE AND RETENTION DURING CONSTRUCTION.</b> 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		unit vertical in 4 comply with at
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.		a. The EVCS s of the <i>California</i> space.
<ol> <li>Retention basins of sufficient size shall be utilized to retain storm water on the site.</li> </ol>		b. The EVCS s Chapter 2, to th
<ol> <li>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.</li> </ol>		Exception: Ele Building Code,
3. Compliance with a lawfully enacted storm water management ordinance. <b>Note:</b> Refer to the State Water Resources Control Board for projects which disturb one acre or more of soil, or		4.106.4.2.2.1.2 Acces In addition to the requ accessibility provision
are part of a larger common plan of development which in total disturbs one acre or more of soil. (Website: https://www.waterboards.ca.gov/water_issues/programs/stormwater/construction.html)		EVCS in multifamily d 4.106.4.2.3 Reserved
<b>4.106.3 GRADING AND PAVING.</b> Construction plans shall indicate how the site grading or drainage system will		4.106.4.2.4 Reserved
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:		4.106.4.2.5 Electric v Electric vehicle ready
<ol> <li>Swales</li> <li>Water collection and disposal systems</li> <li>French drains</li> </ol>		Traffic Operations Pol successor(s).
<ol> <li>Water retention gardens</li> <li>Other water measures which keep surface water away from buildings and aid in groundwater recharge.</li> </ol>		4.106.4.3 Electric vehicle multi-family buildings. Where new parking facil
<b>Exception</b> : Additions and alterations not altering the drainage path.		altered and the work requ altered shall be EV capal or subpanel circuit directo
<b>4.106.4 Electric vehicle (EV) charging for new construction.</b> New construction shall comply with Section 4.106.4.1 or 4.106.4.2. Electric vehicle supply equipment (EVSE) shall comply with the <i>California Electrical Code</i> .		future EV charging purpo
<b>Exceptions:</b> 1. On a case-by-case basis, where the local enforcing agency has determined EV charging and		Notes: 1.Construction docum
infrastructure are not feasible based upon one or more of the following conditions: 1.1 Where there is no local utility power supply or the local utility is unable to supply adequate power.		EV charging. 2.There is no requirer
1.2 Where there is evidence suitable to the local enforcing agency substantiating that additional local utility infrastructure design requirements, directly related to the implementation of Section 4.106.4, may adversely impact the construction cost of the project.		
<ol> <li>Accessory Dwelling Units (ADU) and Junior Accessory Dwelling Units (JADU) without additional parking facilities.</li> </ol>		
4.106.4.1 New one- and two-family dwellings and townhouses with attached private garages. For each		
dwelling unit, install a listed raceway to accommodate a dedicated 208/240-volt branch circuit. The raceway shall not be less than trade size 1 (nominal 1-inch inside diameter). The raceway shall originate at the main service or subpanel and shall terminate into a listed cabinet, box or other enclosure in close proximity to the		
proposed location of an EV charger. Raceways are required to be continuous at enclosed, inaccessible or concealed areas and spaces. The service panel and/or subpanel shall provide capacity to install a 40-ampere		
208/240-volt minimum dedicated branch circuit and space(s) reserved to permit installation of a branch circuit overcurrent protective device.		
Exemption: 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 <i>California Electrical Code</i> .		
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		

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RY MEASURES, SHEE	RESPON. PARTY		Y N/A RESPON	OWNER, CONTRACTOR, INSPECTOR ETC.)
dwellings, hotels and motels and new residential parking facilities.	DIVISION 4.2 ENERGY EFFICIE	ENCY		4.304 OUTDOOR WATER USE
206.4.2.2. Calculations for spaces shall be rounded up to the nearest whole number. A ctric vehicle supply equipment or designed as an EV charging space shall count as at ile parking space only for the purpose of complying with any applicable minimum parking hed by a local jurisdiction. See Vehicle Code Section 22511.2 for further details.	<ul> <li>4.201 GENERAL</li> <li>4.201.1 SCOPE. For the purposes of mandatory energy e Commission will continue to adopt mandatory standar</li> </ul>			<ul> <li>4.304.1 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS. Residential developments shall comply a local water efficient landscape ordinance or the current California Department of Water Resources' Model Wate Efficient Landscape Ordinance (MWELO), whichever is more stringent.</li> </ul>
i.	DIVISION 4.3 WATER EFFICIEN	ICY AND CONSERVATION		<b>NOTES:</b> 1. The Model Water Efficient Landscape Ordinance (MWELO) is located in the <i>California Code Regulation</i>
ily dwellings, hotels and motels	4.303 INDOOR WATER USE 4.303.1 WATER CONSERVING PLUMBING FIXTURES A	<b>ND FITTINGS.</b> Plumbing fixtures (water closets and		Title 23, Chapter 2.7, Division 2. MWELO and supporting documents, including water budget calculator available at: https://www.water.ca.gov/
Irking spaces with receptacles.	urinals) and fittings (faucets and showerheads) shall and 4.303.4.4.	comply with the sections 4.303.1.1, 4.303.1.2, 4.303.1.3	,	DIVISION 4.4 MATERIAL CONSERVATION AND RESOURCE
<b>s and motels.</b> Forty (40) percent of the total number of parking spaces shall be equipped power Level 2 EV charging receptacles.		lential real property shall be replaced with water-conservent is required prior to issuance of a certificate of final	ing	EFFICIENCY
amily parking facilities. Forty (40) percent of the total number of parking spaces shall be d with low power Level 2 EV charging receptacles. EV charging receptacles required by	completion, certificate of occupancy, or final p Code Section 1101.1, et seq., for the definitior	ermit approval by the local building department. See Civ n of a noncompliant plumbing fixture, types of residential		4.406 ENHANCED DURABILITY AND REDUCED MAINTENANCE 4.406.1 RODENT PROOFING. Annular spaces around pipes, electric cables, conduits or other openings in
ion shall be located in at least one assigned parking space per dwelling unit where I parking is provided but need not exceed forty (40) percent of the total number of assigned	buildings affected and other important enactm 4.303.1.1 Water Closets. The effective flush volum	ent dates. ie of all water closets shall not exceed 1.28 gallons per		sole/bottom plates at exterior walls shall be protected against the passage of rodents by closing such openings with cement mortar, concrete masonry or a similar method acceptable to the enforcing agency.
spaces provided on the site.	flush. Tank-type water closets shall be certified to th Specification for Tank-type Toilets.			4.408 CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING
itomated mechanical-access open parking garages as defined in the <i>California Building</i> ode; or parking facilities otherwise incapable of supporting electric vehicle charging.	<b>Note</b> : The effective flush volume of dual flush of two reduced flushes and one full flush.	toilets is defined as the composite, average flush volum	e 🗌 🗆	<b>4.408.1 CONSTRUCTION WASTE MANAGEMENT.</b> Recycle and/or salvage for reuse a minimum of 65 percent of the non-hazardous 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
<b>btacle power source</b> . EV charging receptacles in multifamily parking facilities shall be with a dedicated branch circuit connected to the dwelling unit's electrical panel, unless	4.303.1.2 Urinals. The effective flush volume of wa	Il mounted urinals shall not exceed 0.125 gallons per flu	sh.	management ordinance.
ed as infeasible by the project builder or designer and subject to concurrence of the local g agency.	The effective flush volume of all other urinals shall no <b>4.303.1.3 Showerheads.</b>	ot exceed 0.5 gallons per flush.		Exceptions: 1. Excavated soil and land-clearing debris.
<b>Aception:</b> Areas of parking facilities served by parking lifts, including but not limited to utomated mechanical-access open parking garages as defined in the <i>California Building</i>	4.303.1.3.1 Single Showerhead. Showerhea	ads shall have a maximum flow rate of not more than 1.8		<ol> <li>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</li> </ol>
ode; or parking facilities otherwise incapable of supporting electric vehicle charging.	gallons per minute at 80 psi. Showerheads sh WaterSense Specification for Showerheads.	nall be certified to the performance criteria of the U.S. EF		<ul><li>close to the jobsite.</li><li>3. The enforcing agency may make exceptions to the requirements of this section when isolated jobsites are located in areas beyond the haul boundaries of the diversion facility.</li></ul>
otacle configurations. 208/240V EV charging receptacles shall comply with one of wing configurations:	showerhead, the combined flow rate of all the	<b>one shower</b> . When a shower is served by more than on showerheads and/or other shower outlets controlled by		4.408.2 CONSTRUCTION WASTE MANAGEMENT PLAN. Submit a construction waste management plan
For 20-ampere receptacles, NEMA 6-20R For 30-ampere receptacles, NEMA 14-30R	a single valve shall not exceed 1.8 gallons per allow one shower outlet to be in operation at a	minute at 80 psi, or the shower shall be designed to onl time.	y <u>       </u>	<ul> <li>in conformance 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.</li> </ul>
For 50-ampere receptacles, NEMA 14-50R	Note: A hand-held shower shall be con	sidered a showerhead.		<ol> <li>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.</li> </ol>
s and motels. Ten (10) percent of the total number of parking spaces shall be equipped	4.303.1.4 Faucets.	The maximum flow rate of residential lavatory faucets sh		<ol> <li>Specify if construction and demolition waste materials will be sorted on-site (source separated) or bulk mixed (single stream).</li> <li>Identify diversion facilities where the construction and demolition waste material collected will be</li> </ol>
el 2 EV chargers. At least fifty (50) percent of the required EV chargers shall be equipped 72 connectors.		he minimum flow rate of residential lavatory faucets sha		<ul> <li>a dentify diversion facilities where the construction and demolition waste material collected will be taken.</li> <li>4. Identify construction methods employed to reduce the amount of construction and demolition waste</li> </ul>
<b>family parking facilities.</b> Ten (10) percent of the total number of parking spaces shall be d with Level 2 EV chargers. At least fifty (50) percent of the required EV chargers shall be	4.303.1.4.2 Lavatory Faucets in Common a	nd Public Use Areas. The maximum flow rate of lavato		generated. 5. Specify that the amount of construction and demolition waste materials diverted shall be calculated
d with J1772 connectors. Where common use parking or unassigned parking is provided, gers shall be located in common use or unassigned parking areas and shall be available	buildings shall not exceed 0.5 gallons per min	eas (outside of dwellings or sleeping units) in residential ute at 60 psi.		<b>4.408.3 WASTE MANAGEMENT COMPANY.</b> Utilize a waste management company, approved by the
ow power Level 2 EV charging receptacles or Level 2 EV chargers are installed beyond	<b>4.303.1.4.3 Metering Faucets.</b> Metering faumore than 0.2 gallons per cycle.	cets when installed in residential buildings shall not deliv		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.
num required, an automatic load management system (ALMS) may be used to reduce mum required electrical capacity to each space served by the ALMS. The electrical system		n flow rate of kitchen faucets shall not exceed 1.8 gallons aporarily increase the flow above the maximum rate, but		<b>Note:</b> The owner or contractor may make the determination if the construction and demolition waste materials will be diverted by a waste management company.
on-site distribution transformers shall have sufficient capacity to deliver at least 3.3 kW eously to each EV charging station (EVCS) served by the ALMS. The branch circuit shall ninimum capacity of 40 amperes, and installed EV chargers shall have a capacity of not	to exceed 2.2 gallons per minute at 60 psi, an minute at 60 psi.	d must default to a maximum flow rate of 1.8 gallons per	4.408.4 WASTE STREAM REDUCTION ALTERNATIVE [LR]. Projects that generate a total combined	
a 30 amperes.	<b>Note</b> : Where complying faucets are unavailab reduction.	ble, aerators or other means may be used to achieve		weight of construction and demolition waste disposed of in landfills, which do not exceed 3.4 lbs./sq.ft. of the building area shall meet the minimum 65% construction waste reduction requirement in Section 4.408.1
c vehicle charging stations (EVCS). ing stations required by Section 4.106.4.2.2, Item 2, with EV chargers installed shall 1.106.4.2.2.1.1.	4.303.1.4.5 Pre-rinse spray valves.			4.408.4.1 WASTE STREAM REDUCTION ALTERNATIVE. Projects that generate a total combined
ehicle charging stations serving public accommodations, public housing, motels and hotels		n the <i>California Code of Regulations</i> , Title 20 (Appliance) Table H-2, Section 1605.3 (h)(4)(A), and Section 1607 utomatic shutoff		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% construction waste reduction requirement in Section 4.408.1
to comply with this section. See <i>California Building Code</i> , Chapter 11B, for applicable	FOR REFERENCE ONLY: The following table	e and code section have been reprinted from the Californ	ia 🗆 🗆	<b>4.408.5 DOCUMENTATION</b> . Documentation shall be provided to the enforcing agency which demonstrates
ric vehicle charging stations (EVCS) spaces with EV chargers installed; dimensions	Code of Regulations, Title 20 (Appliance Effici 1605.3 (h)(4)(A).	ency Regulations),Section 1605.1 (h)(4) and Section		compliance with Section 4.408.2, items 1 through 5, Section 4.408.3 or Section 4.408.4 Notes:
e designed to comply with the following:	TABLE H-2			1. Sample forms found in "A Guide to the California Green Building Standards Code
ength of each EVCS space shall be 18 feet (5486 mm). width of each EVCS space shall be 9 feet (2743 mm).	STANDARDS FOR COMMERCIA	AL PRE-RINSE SPRAY		<ul> <li>(Residential)" located at www.hcd.ca.gov/CALGreen.html may be used to assist in documenting compliance with this section.</li> <li>2. Mixed construction and demolition debris (C &amp; D) processors can be located at the California</li> </ul>
5 EVCS spaces, but not less than one, shall also have an 8-foot (2438 mm) wide minimum (1524 mm) wide minimum aisle shall be permitted provided the minimum width of the 12 feet (3658 mm). Surface slope for this EVCS space and the aisle shall not exceed 1	VALUES MANUFACTURED ON			Department of Resources Recycling and Recovery (CalRecycle).
48 units horizontal (2.083 percent slope) in any direction. These EVCS spaces shall also least one of the following:	PRODUCT CLASS [spray force in ounce force (ozf)]	MAXIMUM FLOW RATE (gpm)		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
pace shall be located adjacent to an accessible parking space meeting the requirements a Building Code, Chapter 11A, to allow use of the EV charger from the accessible parking	Product Class 1 (≤ 5.0 ozf)	1.00		following shall be placed in the building:
pace shall be located on an accessible route, as defined in the <i>California Building Code</i> ,	Product Class 2 (> 5.0 ozf and $\leq$ 8.0 ozf)	1.20		<ol> <li>Directions to the owner or occupant that the manual shall remain with the building throughout the life cycle of the structure.</li> <li>Operation and maintenance instructions for the following:</li> </ol>
he building. Actric vehicle charging stations designed and constructed in compliance with the <i>California</i> Chapter 11B, are not required to comply with Section 4.106.4.2.2.1.1.	Product Class 3 (> 8.0 ozf)	1.28		<ul> <li>Equipment and appliances, including water-saving devices and systems, HVAC systems, photovoltaic systems, electric vehicle chargers, water-heating systems and other major</li> </ul>
ssible electric vehicle charging station spaces.		prerinse spray values manufactured on or after January not less than 4.0 ounces-force (ozf)[113 grams-force(gf)]		appliances and equipment. b. Roof and yard drainage, including gutters and downspouts. c. Space conditioning systems, including condensers and air filters.
irements in Section 4.106.4.2.2.1.1, all EV chargers, where installed, shall comply with the s for EV chargers in the <i>California Building Code</i> , Chapter 11B. EV ready spaces and evelopments shall comply with <i>California Building Code</i> , Chapter 11A, Section 1109A.	buildings.	-		d. Landscape irrigation systems. e. Water reuse systems.
I.	Submeters shall be installed to measure water usage California Plumbing Code.	e of individual rental dwelling units in accordance with the	e	<ol> <li>Information from local utility, water and waste recovery providers on methods to further reduce resource consumption, including recycle programs and locations.</li> <li>Public transportation and/or carpool options available in the area.</li> </ol>
ı.	accordance with the <i>California Plumbing Code</i> , and shall m			<ol> <li>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.</li> </ol>
vehicle ready space signage. spaces shall be identified by signage or pavement markings, in compliance with Caltrans	1701.1 of the <i>California Plumbing Code</i> .			<ol> <li>Information about water-conserving landscape and irrigation design and controllers which conserve water.</li> <li>Instructions for maintaining gutters and downspouts and the importance of diverting water at least 5</li> </ol>
licy Directive 13-01 (Zero Emission Vehicle Signs and Pavement Markings) or its	THIS TABLE COMPILES THE DATA IN SECTION 4 CONVENIENCE FOR THE USER.	4.303.1, AND IS INCLUDED AS A		feet away from the foundation. 8. Information on required routine maintenance measures, including, but not limited to, caulking,
charging for additions and alterations of parking facilities serving existing	TABLE - MAXIMUM FIXTURE WATER	USE		painting, grading around the building, etc. 9. Information about state solar energy and incentive programs available. 10. A copy of all special inspections verifications required by the enforcing agency or this code.
ities are added, or electrical systems or lighting of existing parking facilities are added or uires a building permit, ten (10) percent of the total number of parking spaces added or ble spaces to support future Level 2 electric vehicle supply equipment. The service panel	FIXTURE TYPE	FLOW RATE		<ol> <li>Information from the Department of Forestry and Fire Protection on maintenance of defensible space around residential structures.</li> </ol>
ory shall identify the overcurrent protective device space(s) reserved for oses as "EV CAPABLE."	SHOWER HEADS (RESIDENTIAL)	1.8 GMP @ 80 PSI		<ul> <li>12. Information and/or drawings identifying the location of grab bar reinforcements.</li> <li>4.410.2 RECYCLING BY OCCUPANTS. Where 5 or more multifamily dwelling units are constructed on a</li> </ul>
	LAVATORY FAUCETS (RESIDENTIAL)	MAX. 1.2 GPM @ 60 PSI MIN. 0.8 GPM @ 20 PSI		building site, provide readily accessible area(s) that serves all buildings on the site and are identified for the depositing, storage and collection of non-hazardous materials for recycling, including (at a minimum) paper,
nents are intended to demonstrate the project's capability and capacity for facilitating future	LAVATORY FAUCETS IN COMMON & PUBLIC USE AREAS	0.5 GPM @ 60 PSI		corrugated cardboard, glass, plastics, organic waster, and metals, or meet a lawfully enacted local recycling ordinance, if more restrictive.
ment for EV spaces to be constructed or available until EV chargers are installed for use.	KITCHEN FAUCETS	1.8 GPM @ 60 PSI 0.2 GAL/CYCLE		<b>Exception:</b> Rural jurisdictions that meet and apply for the exemption in Public Resources Code Section 42649.82 (a)(2)(A) et seq. are note required to comply with the organic waste portion of
	WATER CLOSET	1.28 GAL/FLUSH		this section.
	URINALS	0.125 GAL/FLUSH		DIVISION 4.5 ENVIRONMENTAL QUALITY
				SECTION 4.501 GENERAL
				<b>4.501.1 Scope</b> The provisions of this chapter shall outline means of reducing the quality of air contaminants that are odorous, irritating and/or harmful to the comfort and well being of a building's installers, occupants and neighbors.
				SECTION 4.502 DEFINITIONS
				The following terms are defined in Chapter 2 (and are included here for reference)
				<b>AGRIFIBER PRODUCTS.</b> Agrifiber products include wheatboard, strawboard, panel substrates and door cores, not including furniture, fixtures and equipment (FF&E) not considered base building elements.
				<b>COMPOSITE WOOD PRODUCTS.</b> Composite wood products include hardwood plywood, particleboard and medium density fiberboard. "Composite wood products" does not include hardboard, structural plywood,
				structural panels, structural composite lumber, oriented strand board, glued laminated timber, prefabricated wood I-joists or finger-jointed lumber, all as specified in California Code of regulations (CCR), title 17, Section 93120.1.
				<b>DIRECT-VENT APPLIANCE.</b> A fuel-burning appliance with a sealed combustion system that draws all air for
				combustion from the outside atmosphere and discharges all flue gases to the outside atmosphere.
ODE. DUE TO THE VARIABLES BETWEEN BUILDING DEPARTMENT JURISDICTIONS, THIS CHECKLIST IS T	O BE USED ON AN INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY T	THE END USER TO MEET THOSE INDIVIDUAL NEEDS. THE END	ID USER ASSUMES A	LL RESPONSIBILITY ASSOCIATED WITH THE USE OF THIS DOCUMENT, INCLUDING VERIFICATION WITH THE FULL CODE.

			Y = YES N/A = NOT APPLICABLE RESPON. PARTY = RESPONSIBLE PARTY (ie: ARCHITECT, ENGINEER, OWNER, CONTRACTOR, INSPECTOR ETC.)	
	Y N/	A RESPON. PARTY		
		]	<b>4.304 OUTDOOR WATER USE</b> <b>4.304.1 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS</b> . Residential developments shall comply with a local water efficient landscape ordinance or the current California Department of Water Resources' Model Water Efficient Landscape Ordinance (MWELO), whichever is more stringent.	ARCHITECTURAL CONCEPTS
			<ul> <li>NOTES:</li> <li>1. The Model Water Efficient Landscape Ordinance (MWELO) is located in the <i>California Code Regulations</i>, Title 23, Chapter 2.7, Division 2. MWELO and supporting documents, including water budget calculator, are available at: https://www.water.ca.gov/</li> </ul>	● ARCHITECTURE ● INTERIORS ● PLANNING 509 RAMONA AVE.
			DIVISION 4.4 MATERIAL CONSERVATION AND RESOURCE EFFICIENCY	ALBANY, CA 94706-1431 510-517-8567 johncowee06@gmail.com architectural-concepts.net
-		]	<ul> <li>4.406 ENHANCED DURABILITY AND REDUCED MAINTENANCE</li> <li>4.406.1 RODENT PROOFING. 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 method acceptable to the enforcing</li> </ul>	
		]	<ul> <li>agency.</li> <li>4.408 CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING</li> <li>4.408.1 CONSTRUCTION WASTE MANAGEMENT. Recycle and/or salvage for reuse a minimum of 65 percent of the non-hazardous 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.</li> </ul>	top WCowee, Jr.
			<ol> <li>Exceptions:</li> <li>Excavated soil and land-clearing debris.</li> <li>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.</li> </ol>	CONSULTANT:
			<ol> <li>The enforcing agency may make exceptions to the requirements of this section when isolated jobsites are located in areas beyond the haul boundaries of the diversion facility.</li> </ol>	
-		]	<b>4.408.2 CONSTRUCTION WASTE MANAGEMENT PLAN</b> . Submit a construction waste management plan in conformance with Items 1 through 5. The construction waste management plan shall be updated as necessary and shall be available during construction for examination by the enforcing agency.	
			<ol> <li>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.</li> <li>Specify if construction and demolition waste materials will be sorted on-site (source separated) or bulk mixed (single stream).</li> <li>Identify diversion facilities where the construction and demolition waste material collected will be</li> </ol>	
			<ul> <li>taken.</li> <li>Identify construction methods employed to reduce the amount of construction and demolition waste generated.</li> <li>Specify that the amount of construction and demolition waste materials diverted shall be calculated by weight or volume, but not by both.</li> </ul>	
-		]	<b>4.408.3 WASTE MANAGEMENT COMPANY.</b> 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.	
			<b>Note:</b> 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 lbs./sq.ft. of the building area shall meet the minimum 65% construction waste reduction requirement in Section 4.408.1	PAT06 ERS
			<b>4.408.4.1 WASTE STREAM REDUCTION ALTERNATIVE.</b> 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% construction waste reduction requirement in Section 4.408.1	C CA 9470 OWNERS
		]	<b>4.408.5 DOCUMENTATION</b> . Documentation shall be provided to the enforcing agency which demonstrates compliance with Section 4.408.2, items 1 through 5, Section 4.408.3 or Section 4.408.4	
			Notes:	
			<ol> <li>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.</li> <li>Mixed construction and demolition debris (C &amp; D) processors can be located at the California Department of Resources Recycling and Recovery (CalRecycle).</li> </ol>	С
-		]	<ul> <li>4.410 BUILDING MAINTENANCE AND OPERATION</li> <li>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</li> </ul>	REE RE AND AVENUE
			following shall be placed in the building: 1. Directions to the owner or occupant that the manual shall remain with the building throughout the life cycle of the structure.	ШШ
			<ol> <li>Operation and maintenance instructions for the following:         <ul> <li>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.</li> </ul> </li> </ol>	DOHN AND I
			<ul> <li>b. Roof and yard drainage, including gutters and downspouts.</li> <li>c. Space conditioning systems, including condensers and air filters.</li> <li>d. Landscape irrigation systems.</li> <li>e. Water reuse systems.</li> <li>3. Information from local utility, water and waste recovery providers on methods to further reduce</li> </ul>	
			<ul> <li>resource consumption, including recycle programs and locations.</li> <li>4. Public transportation and/or carpool options available in the area.</li> <li>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.</li> </ul>	
			<ol> <li>Information about water-conserving landscape and irrigation design and controllers which conserve water.</li> <li>Instructions for maintaining gutters and downspouts and the importance of diverting water at least 5 feet away from the foundation.</li> <li>Information on required routine maintenance measures, including, but not limited to, caulking,</li> </ol>	
			<ul> <li>painting, grading around the building, etc.</li> <li>9. Information about state solar energy and incentive programs available.</li> <li>10. A copy of all special inspections verifications required by the enforcing agency or this code.</li> <li>11. Information from the Department of Forestry and Fire Protection on maintenance of defensible space around residential structures.</li> </ul>	
		]	<ol> <li>Information and/or drawings identifying the location of grab bar reinforcements.</li> <li>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 are identified for the depositing, storage and collection of non-hazardous materials for recycling, including (at a minimum) paper,</li> </ol>	71 REVISIONS DATE
			corrugated cardboard, glass, plastics, organic waster, and metals, or meet a lawfully enacted local recycling ordinance, if more restrictive.  Exception: Rural jurisdictions that meet and apply for the exemption in Public Resources Code Section	JOB: DATE: 11/24/2024
			42649.82 (a)(2)(A) et seq. are note required to comply with the organic waste portion of this section.	SHEET TITLE:
			DIVISION 4.5 ENVIRONMENTAL QUALITY SECTION 4.501 GENERAL 4.501.1 Scope	GREEN
			The provisions of this chapter shall outline means of reducing the quality of air contaminants that are odorous, irritating and/or harmful to the comfort and well being of a building's installers, occupants and neighbors. <b>SECTION 4.502 DEFINITIONS</b> 5.102.1 DEFINITIONS	BUILDING
			The following terms are defined in Chapter 2 (and are included here for reference) <b>AGRIFIBER PRODUCTS.</b> Agrifiber products include wheatboard, strawboard, panel substrates and door cores, not including furniture, fixtures and equipment (FF&E) not considered base building elements.	CODE SHEET NO.
			<b>COMPOSITE WOOD PRODUCTS.</b> Composite wood products include hardwood plywood, particleboard and medium density fiberboard. "Composite wood products" does not include hardboard, structural plywood, structural panels, structural composite lumber, oriented strand board, glued laminated timber, prefabricated wood l-joists or finger-jointed lumber, all as specified in California Code of regulations (CCR), title 17, Section	
			<ul> <li>Wood I-joists of finger-jointed lumber, all as specified in California Code of regulations (CCR), title 17, Section 93120.1.</li> <li>DIRECT-VENT APPLIANCE. A fuel-burning appliance with a sealed combustion system that draws all air for combustion from the outside atmosphere and discharges all flue gases to the outside atmosphere.</li> </ul>	G1.2 REVISION 0

# **2022 CALIFORNIA GREEN BUILDING STANDARDS CODE RESIDENTIAL MANDATORY MEASURES, SHEET 2** (July 2024 Supplement)

1 1 1	MAXIMUM INCREMENTAL REACTIVITY (MIR). The maximum char	nge in weight of ozone formed by add	ing a					
	compound to the "Base Reactive Organic Gas (ROG) Mixture" per we hundredths of a gram (g O <sup>3</sup> /g ROC).	eight of compound added, expressed	to					
	Note: MIR values for individual compounds and hydrocarbon solvents and 94701.	ote: MIR values for individual compounds and hydrocarbon solvents are specified in CCR, Title 17, Sections 94700 ad 94701.						
		TURE CONTENT. The weight of the water in wood expressed in percentage of the weight of the oven-dry wood.						
	PRODUCT-WEIGHTED MIR (PWMIR). The sum of all weighted-MIR article. The PWMIR is the total product reactivity expressed to hundre product (excluding container and packaging).							
	Note: PWMIR is calculated according to equations found in CCR, Title							
	<b>REACTIVE ORGANIC COMPOUND (ROC).</b> Any compound that has ozone formation in the troposphere.	the potential, once emitted, to contrib	pute to					
		le organic compound (VOC) broadly defined as a chemical compound based on carbon chains or rings essures greater than 0.1 millimeters of mercury at room temperature. These compounds typically contain						
	hydrogen and may contain oxygen, nitrogen and other elements. See	may contain oxygen, nitrogen and other elements. See CCR Title 17, Section 94508(a).						
	<ul> <li>4.503 FIREPLACES</li> <li>4.503.1 GENERAL. Any installed gas fireplace shall be a direct-vent woodstove or pellet stove shall comply with U.S. EPA New Source Particular Statement of the store shall comply with U.S. EPA New Source Particular Statement of the store shall comply with U.S. EPA New Source Particular Statement of the store shall comply with U.S. EPA New Source Particular Statement of the store shall be a store store shall be a store stor</li></ul>							
	applicable, and shall have a permanent label indicating they are certi- pellet stoves and fireplaces shall also comply with applicable local or	fied to meet the emission limits. Woo	dstoves,					
	4.504 POLLUTANT CONTROL 4.504.1 COVERING OF DUCT OPENINGS & PROTECTION OF ME							
	CONSTRUCTION. At the time of rough installation, during storage o startup of the heating, cooling and ventilating equipment, all duct and	n the construction site and until final	ent					
	openings shall be covered with tape, plastic, sheet metal or other me reduce the amount of water, dust or debris which may enter the syste	thods acceptable to the enforcing age	ency to					
	4.504.2 FINISH MATERIAL POLLUTANT CONTROL. Finish materi	als shall comply with this section.						
	4.504.2.1 Adhesives, Sealants and Caulks. Adhesives, seal requirements of the following standards unless more stringent							
	management district rules apply:							
	<ol> <li>Adhesives, adhesive bonding primers, adhesive prin shall comply with local or regional air pollution contro applicable or SCAQMD Rule 1168 VOC limits, as sh</li> </ol>	ol or air quality management district ru	ules where					
	Such products also shall comply with the Rule 1168 compounds (chloroform, ethylene dichloride, methyl	prohibition on the use of certain toxic						
	tricloroethylene), except for aerosol products, as spe	ecified in Subsection 2 below.						
	<ol> <li>Aerosol adhesives, and smaller unit sizes of adhesiv units of product, less packaging, which do not weigh than 16 fluid ounces) shall comply with statewide VC</li> </ol>	more than 1 pound and do not consist	st of more					
	prohibitions on use of certain toxic compounds, of C commencing with section 94507.							
	4.504.2.2 Paints and Coatings. Architectural paints and coat	ings shall comply with VOC limits in T	able 1 of					
	the ARB Architectural Suggested Control Measure, as shown i 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 c coating, based on its gloss, as defined in subsections 4.21, 4.3 Board, Suggested Control Measure, and the corresponding Fla	86, and 4.37 of the 2007 California Air	Resources					
	Table 4.504.3 shall apply.							
	4.504.2.3 Aerosol Paints and Coatings. Aerosol paints and Limits for ROC in Section 94522(a)(2) and other requirements,	including prohibitions on use of certa	in toxic					
	compounds and ozone depleting substances, in Sections 9452 Regulations, Title 17, commencing with Section 94520; and in							
1 1 1	Ouglity Management District additionally comply with the percent							
	Quality Management District additionally comply with the perce 8, Rule 49.							
	<ul> <li>8, Rule 49.</li> <li>4.504.2.4 Verification. Verification of compliance with this see</li> </ul>	ent VOC by weight of product limits of	Regulation					
	8, Rule 49.	ent VOC by weight of product limits of	Regulation					
	<ul> <li>8, Rule 49.</li> <li>4.504.2.4 Verification. Verification of compliance with this see enforcing agency. Documentation may include, but is not limit 1. Manufacturer's product specification.</li> </ul>	ent VOC by weight of product limits of	Regulation					
	<ul> <li>8, Rule 49.</li> <li>4.504.2.4 Verification. Verification of compliance with this see enforcing agency. Documentation may include, but is not limit</li> </ul>	ent VOC by weight of product limits of	Regulation					
	<ul> <li>8, Rule 49.</li> <li>4.504.2.4 Verification. Verification of compliance with this see enforcing agency. Documentation may include, but is not limit 1. Manufacturer's product specification.</li> </ul>	ent VOC by weight of product limits of ction shall be provided at the request ed to, the following:	Regulation					
	<ul> <li>8, Rule 49.</li> <li>4.504.2.4 Verification. Verification of compliance with this see enforcing agency. Documentation may include, but is not limit</li> <li>1. Manufacturer's product specification.</li> <li>2. Field verification of on-site product containers.</li> </ul>	ent VOC by weight of product limits of ction shall be provided at the request ed to, the following:	Regulation					
	8, Rule 49. 4.504.2.4 Verification. Verification of compliance with this see enforcing agency. Documentation may include, but is not limit 1. Manufacturer's product specification. 2. Field verification of on-site product containers. TABLE 4.504.1 - ADHESIVE VOC LIM (Less Water and Less Exempt Compounds in Gram ARCHITECTURAL APPLICATIONS	ent VOC by weight of product limits of ction shall be provided at the request ed to, the following: IT <sub>1,2</sub> is per Liter) VOC LIMIT	Regulation					
	<ul> <li>8, Rule 49.</li> <li>4.504.2.4 Verification. Verification of compliance with this see enforcing agency. Documentation may include, but is not limit</li> <li>1. Manufacturer's product specification.</li> <li>2. Field verification of on-site product containers.</li> </ul> TABLE 4.504.1 - ADHESIVE VOC LIM (Less Water and Less Exempt Compounds in Gram ARCHITECTURAL APPLICATIONS INDOOR CARPET ADHESIVES	ent VOC by weight of product limits of ction shall be provided at the request of ed to, the following: IT <sub>1,2</sub> s per Liter)	Regulation					
	8, Rule 49. 4.504.2.4 Verification. Verification of compliance with this see enforcing agency. Documentation may include, but is not limit 1. Manufacturer's product specification. 2. Field verification of on-site product containers. TABLE 4.504.1 - ADHESIVE VOC LIM (Less Water and Less Exempt Compounds in Gram ARCHITECTURAL APPLICATIONS	ent VOC by weight of product limits of ction shall be provided at the request ed to, the following: IT <sub>1,2</sub> is per Liter) VOC LIMIT 50	Regulation					
	8, Rule 49. 4.504.2.4 Verification. Verification of compliance with this see enforcing agency. Documentation may include, but is not limit 1. Manufacturer's product specification. 2. Field verification of on-site product containers. TABLE 4.504.1 - ADHESIVE VOC LIM (Less Water and Less Exempt Compounds in Gram ARCHITECTURAL APPLICATIONS INDOOR CARPET ADHESIVES OUTDOOR CARPET ADHESIVES OUTDOOR CARPET ADHESIVES WOOD FLOORING ADHESIVES	IT <sub>1,2</sub> IT <sub>1,2</sub> IS per Liter) VOC LIMIT 50 50 150 100	Regulation					
	8, Rule 49. 4.504.2.4 Verification. Verification of compliance with this see enforcing agency. Documentation may include, but is not limit 1. Manufacturer's product specification. 2. Field verification of on-site product containers. TABLE 4.504.1 - ADHESIVE VOC LIM (Less Water and Less Exempt Compounds in Gram ARCHITECTURAL APPLICATIONS INDOOR CARPET ADHESIVES CARPET PAD ADHESIVES OUTDOOR CARPET ADHESIVES WOOD FLOORING ADHESIVES RUBBER FLOOR ADHESIVES	IT <sub>1,2</sub> IT <sub>1,2</sub> Is per Liter) VOC LIMIT 50 150 60	Regulation					
	8, Rule 49. 4.504.2.4 Verification. Verification of compliance with this see enforcing agency. Documentation may include, but is not limit 1. Manufacturer's product specification. 2. Field verification of on-site product containers. TABLE 4.504.1 - ADHESIVE VOC LIM (Less Water and Less Exempt Compounds in Gram ARCHITECTURAL APPLICATIONS INDOOR CARPET ADHESIVES OUTDOOR CARPET ADHESIVES OUTDOOR CARPET ADHESIVES WOOD FLOORING ADHESIVES	IT <sub>1,2</sub> IT <sub>1,2</sub> IS per Liter) VOC LIMIT 50 50 150 100	Regulation					
	8, Rule 49. 4.504.2.4 Verification. Verification of compliance with this see enforcing agency. Documentation may include, but is not limit 1. Manufacturer's product specification. 2. Field verification of on-site product containers. TABLE 4.504.1 - ADHESIVE VOC LIM (Less Water and Less Exempt Compounds in Gram ARCHITECTURAL APPLICATIONS INDOOR CARPET ADHESIVES CARPET PAD ADHESIVES OUTDOOR CARPET ADHESIVES OUTDOOR CARPET ADHESIVES WOOD FLOORING ADHESIVES RUBBER FLOOR ADHESIVES SUBFLOOR ADHESIVES CERAMIC TILE ADHESIVES VCT & ASPHALT TILE ADHESIVES	IT <sub>1,2</sub> IT <sub>1,2</sub> IS per Liter) VOC LIMIT 50 50 150 100 60 50 65 50 50	Regulation					
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	8, Rule 49. 4.504.2.4 Verification. Verification of compliance with this see enforcing agency. Documentation may include, but is not limit 1. Manufacturer's product specification. 2. Field verification of on-site product containers. TABLE 4.504.1 - ADHESIVE VOC LIM (Less Water and Less Exempt Compounds in Gram ARCHITECTURAL APPLICATIONS INDOOR CARPET ADHESIVES CARPET PAD ADHESIVES OUTDOOR CARPET ADHESIVES OUTDOOR CARPET ADHESIVES WOOD FLOORING ADHESIVES RUBBER FLOOR ADHESIVES SUBFLOOR ADHESIVES CERAMIC TILE ADHESIVES VCT & ASPHALT TILE ADHESIVES	IT <sub>1,2</sub> IT <sub>1,2</sub> IS per Liter) VOC LIMIT 50 50 150 100 60 50 65 50 50	Regulation					
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	8, Rule 49. 4.504.2.4 Verification. Verification of compliance with this see enforcing agency. Documentation may include, but is not limit 1. Manufacturer's product specification. 2. Field verification of on-site product containers. TABLE 4.504.1 - ADHESIVE VOC LIM (Less Water and Less Exempt Compounds in Gram ARCHITECTURAL APPLICATIONS INDOOR CARPET ADHESIVES CARPET PAD ADHESIVES OUTDOOR CARPET ADHESIVES WOOD FLOORING ADHESIVES RUBBER FLOOR ADHESIVES SUBFLOOR ADHESIVES CERAMIC TILE ADHESIVES VCT & ASPHALT TILE ADHESIVES DRYWALL & PANEL ADHESIVES COVE BASE ADHESIVES MULTIPURPOSE CONSTRUCTION ADHESIVE SINGLE-PLY ROOF MEMBRANE ADHESIVES SINGLE-PLY ROOF MEMBRANE ADHESIVES OTHER ADHESIVES NOT LISTED SPECIALTY APPLICATIONS PVC WELDING ABS WELDING ABS WELDING ABS WELDING ADHESIVE PRIMER FOR PLASTIC CONTACT ADHESIVE	IT1.2         IT1.2         is per Liter)         VOC LIMIT         50         50         100         60         510         490         325         250         80         250	Regulation					
	8, Rule 49. 4.504.2.4 Verification. Verification of compliance with this see enforcing agency. Documentation may include, but is not limit 1. Manufacturer's product specification. 2. Field verification of on-site product containers. TABLE 4.504.1 - ADHESIVE VOC LIM (Less Water and Less Exempt Compounds in Gram ARCHITECTURAL APPLICATIONS INDOOR CARPET ADHESIVES CARPET PAD ADHESIVES OUTDOOR CARPET ADHESIVES OUTDOOR CARPET ADHESIVES WOOD FLOORING ADHESIVES RUBBER FLOOR ADHESIVES CERAMIC TILE ADHESIVES CERAMIC TILE ADHESIVES VCT & ASPHALT TILE ADHESIVES DRYWALL & PANEL ADHESIVES COVE BASE ADHESIVES MULTIPURPOSE CONSTRUCTION ADHESIVE STRUCTURAL GLAZING ADHESIVES SINGLE-PLY ROOF MEMBRANE ADHESIVES OTHER ADHESIVES NOT LISTED SPECIALTY APPLICATIONS PVC WELDING ABS WELDING PLASTIC CEMENT WELDING ADHESIVE PRIMER FOR PLASTIC CONTACT ADHESIVE	IT 1,2         is per Liter)         VOC LIMIT         50         50         150         100         60         50         50         50         50         50         50         50         50         50         50         60         510         490         325         250         550         80	Regulation					
	8, Rule 49. 4.504.2.4 Verification. Verification of compliance with this see enforcing agency. Documentation may include, but is not limit 1. Manufacturer's product specification. 2. Field verification of on-site product containers. TABLE 4.504.1 - ADHESIVE VOC LIM (Less Water and Less Exempt Compounds in Gram ARCHITECTURAL APPLICATIONS INDOOR CARPET ADHESIVES CARPET PAD ADHESIVES OUTDOOR CARPET ADHESIVES WOOD FLOORING ADHESIVES RUBBER FLOOR ADHESIVES SUBFLOOR ADHESIVES CERAMIC TILE ADHESIVES VCT & ASPHALT TILE ADHESIVES COVE BASE ADHESIVES MULTIPURPOSE CONSTRUCTION ADHESIVES SINGLE-PLY ROOF MEMBRANE ADHESIVES SINGLE-PLY ROOF MEMBRANE ADHESIVES OTHER ADHESIVES NOT LISTED SPECIALTY APPLICATIONS PVC WELDING ABS WELDING ABS WELDING ABS WELDING ADHESIVE PRIMER FOR PLASTIC CONTACT ADHESIVE STRUCTURAL WOOD MEMBER ADHESIVE STRUCTURAL WOOD MEMBER ADHESIVE	ent VOC by weight of product limits of ction shall be provided at the request of ed to, the following: IT <sub>1,2</sub> is per Liter) VOC LIMIT 50 50 150 60 50 65 50 65 50 50 50 50 50 50 50 50 50 5	Regulation					
	8, Rule 49. 4.504.2.4 Verification. Verification of compliance with this see enforcing agency. Documentation may include, but is not limit 1. Manufacturer's product specification. 2. Field verification of on-site product containers. TABLE 4.504.1 - ADHESIVE VOC LIM (Less Water and Less Exempt Compounds in Gram ARCHITECTURAL APPLICATIONS INDOOR CARPET ADHESIVES CARPET PAD ADHESIVES OUTDOOR CARPET ADHESIVES OUTDOOR CARPET ADHESIVES WOOD FLOORING ADHESIVES WOOD FLOORING ADHESIVES SUBFLOOR ADHESIVES CERAMIC TILE ADHESIVES VCT & ASPHALT TILE ADHESIVES DRYWALL & PANEL ADHESIVES COVE BASE ADHESIVES COVE BASE ADHESIVES SINGLE-PLY ROOF MEMBRANE ADHESIVES SINGLE-PLY ROOF MEMBRANE ADHESIVES OTHER ADHESIVES NOT LISTED SPECIALTY APPLICATIONS PVC WELDING ABS WELDING PLASTIC CEMENT WELDING ADHESIVE PRIMER FOR PLASTIC CONTACT ADHESIVE STRUCTURAL WOOD MEMBER ADHESIVE	ent VOC by weight of product limits of         ction shall be provided at the request of         ed to, the following:         IT1.2         is per Liter)         VOC LIMIT         50         510         490         325         250         80         250         140         250         30	Regulation					
	8, Rule 49. 4.504.2.4 Verification. Verification of compliance with this see enforcing agency. Documentation may include, but is not limit 1. Manufacturer's product specification. 2. Field verification of on-site product containers. TABLE 4.504.1 - ADHESIVE VOC LIM (Less Water and Less Exempt Compounds in Gram ARCHITECTURAL APPLICATIONS INDOOR CARPET ADHESIVES CARPET PAD ADHESIVES OUTDOOR CARPET ADHESIVES OUTDOOR CARPET ADHESIVES WOOD FLOORING ADHESIVES RUBBER FLOOR ADHESIVES CERAMIC TILE ADHESIVES VCT & ASPHALT TILE ADHESIVES VCT & ASPHALT TILE ADHESIVES COVE BASE ADHESIVES MULTIPURPOSE CONSTRUCTION ADHESIVE STRUCTURAL GLAZING ADHESIVES SINGLE-PLY ROOF MEMBRANE ADHESIVES OTHER ADHESIVES NOT LISTED SPECIALTY APPLICATIONS PVC WELDING CPVC WELDING ABS WELDING ADHESIVE PRIMER FOR PLASTIC CONTACT ADHESIVE STRUCTURAL WOOD MEMBER ADHESIVE	ent VOC by weight of product limits of ction shall be provided at the request of ed to, the following: IT <sub>1.2</sub> s per Liter) VOC LIMIT 50 50 50 65 50 65 50 50 50 50 50 50 50 50 50 5	Regulation					
	8, Rule 49. 4.504.2.4 Verification. Verification of compliance with this see enforcing agency. Documentation may include, but is not limit 1. Manufacturer's product specification. 2. Field verification of on-site product containers.           TABLE 4.504.1 - ADHESIVE VOC LIM           (Less Water and Less Exempt Compounds in Gram           ARCHITECTURAL APPLICATIONS           INDOOR CARPET ADHESIVES           CARPET PAD ADHESIVES           OUTDOOR CARPET ADHESIVES           OUTDOOR CARPET ADHESIVES           OUTDOOR CARPET ADHESIVES           OUTDOOR CARPET ADHESIVES           WOOD FLOORING ADHESIVES           RUBBER FLOOR ADHESIVES           SUBFLOOR ADHESIVES           CERAMIC TILE ADHESIVES           VCT & ASPHALT TILE ADHESIVES           DRYWALL & PANEL ADHESIVES           COVE BASE ADHESIVES           MULTIPURPOSE CONSTRUCTION ADHESIVE           STRUCTURAL GLAZING ADHESIVES           OTHER ADHESIVES NOT LISTED           SPECIALTY APPLICATIONS           PVC WELDING           ABS WELDING           PLASTIC CEMENT WELDING           ADHESIVE PRIMER FOR PLASTIC           CONTACT ADHESIVE           STRUCTURAL WOOD MEMBER ADHESIVE           STRUCTURAL WOOD MEMBER ADHESIVE           STRUCTURAL WOOD MEMBER ADHESIVE           SPECIAL PURPOSE CONTACT ADHESIVE	ent VOC by weight of product limits of ction shall be provided at the request of ed to, the following: IT <sub>1,2</sub> s per Liter) VOC LIMIT 50 50 50 65 50 65 50 50 50 50 50 50 50 50 50 5	Regulation					
	8, Rule 49. 4.504.2.4 Verification. Verification of compliance with this see enforcing agency. Documentation may include, but is not limit 1. Manufacturer's product specification. 2. Field verification of on-site product containers. TABLE 4.504.1 - ADHESIVE VOC LIM (Less Water and Less Exempt Compounds in Gram ARCHITECTURAL APPLICATIONS INDOOR CARPET ADHESIVES CARPET PAD ADHESIVES OUTDOOR CARPET ADHESIVES OUTDOOR CARPET ADHESIVES WOOD FLOORING ADHESIVES RUBBER FLOOR ADHESIVES SUBFLOOR ADHESIVES VCT & ASPHALT TILE ADHESIVES VCT & ASPHALT TILE ADHESIVES COVE BASE ADHESIVES MULTIPURPOSE CONSTRUCTION ADHESIVE STRUCTURAL GLAZING ADHESIVES SINGLE-PLY ROOF MEMBRANE ADHESIVES OTHER ADHESIVES NOT LISTED SPECIALTY APPLICATIONS PVC WELDING ABS WELDING ABS WELDING ADHESIVE PRIMER FOR PLASTIC CONTACT ADHESIVE STRUCTURAL WOOD MEMBER ADHESIVE	ent VOC by weight of product limits of ction shall be provided at the request of ed to, the following: IT <sub>1,2</sub> s per Liter) VOC LIMIT 50 50 50 65 50 65 50 50 50 50 50 50 50 50 50 5	Regulation					
	8, Ruie 49.  4.504.2.4 Verification. Verification of compliance with this see enforcing agency. Documentation may include, but is not limit 1. Manufacturer's product specification. 2. Field verification of on-site product containers.  TABLE 4.504.1 - ADHESIVE VOC LIM (Less Water and Less Exempt Compounds in Gram ARCHITECTURAL APPLICATIONS INDOOR CARPET ADHESIVES CARPET PAD ADHESIVES OUTDOOR CARPET ADHESIVES WOOD FLOORING ADHESIVES RUBBER FLOOR ADHESIVES RUBBER FLOOR ADHESIVES SUBFLOOR ADHESIVES CERAMIC TILE ADHESIVES VCT & ASPHALT TILE ADHESIVES COVE BASE ADHESIVES MULTIPURPOSE CONSTRUCTION ADHESIVE STRUCTURAL GLAZING ADHESIVES SINGLE-PLY ROOF MEMBRANE ADHESIVES OTHER ADHESIVES NOT LISTED SPECIALTY APPLICATIONS PVC WELDING ABS WELDING ABS WELDING ADHESIVE RIMER FOR PLASTIC CONTACT ADHESIVE STRUCTURAL WOOD MEMBER ADHESIVE STRUCTURAL WOOD MEMBER ADHESIVE STRUCTURAL ON PLASTIC CONTACT ADHESIVE STRUCTURAL WOOD MEMBER ADHESIVE STRUCTURAL WELDING ADHESIVE PRIMER FOR PLASTIC CONTACT ADHESIVE STRUCTURAL WOOD MEMBER ADHESIVE SUBSTRATE SPECIFIC APPLICATIONS METAL TO METAL PLASTIC FOAMS POROUS MATERIAL (EXCEPT WOOD) WOOD FIBERGLASS	ent VOC by weight of product limits of ction shall be provided at the request of ted to, the following: IT <sub>1.2</sub> s per Liter) VOC LIMIT 50 50 150 65 50 65 50 65 50 50 50 50 50 50 50 50 50 5	Regulation					
	8, Rule 49. 4.504.2.4 Verification. Verification of compliance with this see enforcing agency. Documentation may include, but is not limit 1. Manufacturer's product specification. 2. Field verification of on-site product containers.           TABLE 4.504.1 - ADHESIVE VOC LIM           (Less Water and Less Exempt Compounds in Gram           ARCHITECTURAL APPLICATIONS           INDOOR CARPET ADHESIVES           CARPET PAD ADHESIVES           OUTDOOR CARPET ADHESIVES           OUTDOOR CARPET ADHESIVES           WOOD FLOORING ADHESIVES           WOOD FLOOR ADHESIVES           RUBBER FLOOR ADHESIVES           VCT & ASPHALT TILE ADHESIVES           VCT & ASPHALT TILE ADHESIVES           COVE BASE ADHESIVES           MULTIPURPOSE CONSTRUCTION ADHESIVES           SINGLE-PLY ROOF MEMBRANE ADHESIVES           OTHER ADHESIVES NOT LISTED           SPECIALTY APPLICATIONS           PVC WELDING           ABS WELDING           PLASTIC CEMENT WELDING           ADHESIVE PRIMER FOR PLASTIC           CONTACT ADHESIVE           SPECIAL PURPOSE CONTACT ADHESIVE           STRUCTURAL WOOD MEMBER ADHESIVE           STRUCTURAL WOOD MEMBER ADHESIVE           SPECIAL PURPOSE CONTACT ADHESIVE           SPECIAL PURPOSE CONTACT ADHESIVE           STRUCTURAL WOOD MEMBER ADHESIVE           SUBSTRATE SPECIFIC APPLICA	ent VOC by weight of product limits of         ction shall be provided at the request of         ction shall be provided at the request of         IT1.2         is per Liter)         VOC LIMIT         50         50         100         60         50         80         250         50         30         50         30         30         30         80         30         30         80         30	Regulation					

**TABLE 4.504** (Less Water and SEALANTS ARCHITECTURA MARINE DECK NONMEMBRAN ROADWAY SINGLE-PLY RO OTHER SEALANT PRIME ARCHITECTURA NON-POROU POROUS MODIFIED BITU MARINE DECK OTHER

> ARCHITEC GRAMS OF VO COMPOUNDS COATING CAT FLAT COATING NON-FLAT CO NONFLAT-HIG SPECIALTY C ALUMINUM RC BASEMENT SF BITUMINOUS BITUMINOUS F BOND BREAKE CONCRETE CI CONCRETE/M DRIVEWAY SE DRY FOG COA FAUX FINISHI FIRE RESISTIV FLOOR COATI FORM-RELEAS GRAPHIC ART HIGH TEMPER INDUSTRIAL M LOW SOLIDS ( MAGNESITE C MASTIC TEXT METALLIC PIG MULTICOLOR PRETREATME PRIMERS, SEA REACTIVE PEN RECYCLED CO ROOF COATIN RUST PREVEN SHELLACS CLEAR OPAQUE SPECIALTY PF UNDERCOATE STAINS STONE CONS SWIMMING PC TRAFFIC MAR TUB & TILE RE WATERPROOF WOOD COATIN WOOD PRESE ZINC-RICH PR 1. GRAMS OF VOC PER LITER OF COATING, INCLUDING WATER & EXEMPT COMPOUNDS

4.2 - SEALANT VOC LIMIT						
Less Exempt Compounds in Grams per Liter)						
	VOC LIMIT					
AL	250					
	760					
E ROOF	300					
	250					
OOF MEMBRANE	450					
	420					
IERS						
AL						
JS	250					
	775					
IMINOUS	500					
	760					
	750					

TABLE 4.504.3 - VOC CONTENT LIMITS	FOR
ARCHITECTURAL COATINGS2.3	

CTURAL COATINGS2,3					
OC PER LITER OF COATING, LESS WATER & LESS EXEMPT					
TEGORY	VOC LIMIT				
GS	50				
DATINGS	100				
H GLOSS COATINGS	150				
OATINGS					
OOF COATINGS	400				
PECIALTY COATINGS	400				
ROOF COATINGS	50				
ROOF PRIMERS	350				
ERS	350				
URING COMPOUNDS	350				
ASONRY SEALERS	100				
EALERS	50				
ATINGS	150				
NG COATINGS	350				
VE COATINGS	350				
INGS	100				
SE COMPOUNDS	250				
TS COATINGS (SIGN PAINTS)	500				
RATURE COATINGS	420				
MAINTENANCE COATINGS	250				
COATINGS1	120				
CEMENT COATINGS	450				
URE COATINGS	100				
GMENTED COATINGS	500				
COATINGS	250				
ENT WASH PRIMERS	420				
ALERS, & UNDERCOATERS	100				
NETRATING SEALERS	350				
OATINGS	250				
NGS	50				
NTATIVE COATINGS	250				
	730				
	550				
RIMERS, SEALERS & ERS	100				
	250				
OLIDANTS	450				
OOL COATINGS	340				
RKING COATINGS	100				
EFINISH COATINGS	420				
FING MEMBRANES	250				
INGS	275				
ERVATIVES	350				
RIMERS	340				

2. THE SPECIFIED LIMITS REMAIN IN EFFECT UNLESS REVISED LIMITS ARE LISTED IN SUBSEQUENT COLUMNS IN THE TABLE.

3. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, ARCHITECTURAL COATINGS SUGGESTED CONTROL MEASURE, FEB. 1, 2008. MORE INFORMATION IS

AVAILABLE FROM THE AIR RESOURCES BOARD.

	Z (July 2024 Supplement)		
Y N/A RESPON PARTY	L		
	TABLE 4.504.5 - FORMALDEHYDE LI	MITS <sub>1</sub>	
	MAXIMUM FORMALDEHYDE EMISSIONS IN PAR		
	PRODUCT HARDWOOD PLYWOOD VENEER CORE	0.05	
	HARDWOOD PLYWOOD COMPOSITE CORE	0.05	
	PARTICLE BOARD	0.09	
	MEDIUM DENSITY FIBERBOARD THIN MEDIUM DENSITY FIBERBOARD2	0.11	
	1. VALUES IN THIS TABLE ARE DERIVED FROM	THOSE SPECIFIED	
	BY THE CALIF. AIR RESOURCES BOARD, AIR TO MEASURE FOR COMPOSITE WOOD AS TESTED WITH ASTM E 1333. FOR ADDITIONAL INFORM/ CODE OF REGULATIONS, TITLE 17, SECTIONS 9 93120.12.	) IN ACCORDANCE ATION, SEE CALIF.	
	2. THIN MEDIUM DENSITY FIBERBOARD HAS A THICKNESS OF 5/16" (8 MM).	MAXIMUM	
	<b>DIVISION 4.5 ENVIRONMENTAL QUAL</b> 4.504.3 CARPET SYSTEMS. All carpet installed in the building interior Department of Public Health, "Standard Method for the Testing and Eva from Indoor Sources Using Environmental Chambers," Version 1.2, Jar California Specification 01350)	r shall meet the requirements of the Californ aluation of Volatile Organic Chemical Emiss	ia ons
	See California Department of Public Health's website for certification pr https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Page		
	4.504.3.1 Carpet cushion. All carpet cushion installed in the bui California Department of Public Health, "Standard Method for the Chemical Emissions from Indoor Sources Using Environmental C (Emission testing method for California Specification 01350)	e Testing and Evaluation of Volatile Organic	the
	See California Department of Public Health's website for certifica https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAC		
	4.504.3.2 Carpet adhesive. All carpet adhesive shall meet the re	-	
	<b>4.504.4 RESILIENT FLOORING SYSTEMS.</b> Where resilient flooring is resilient flooring shall meet the requirements of the California Department Testing and Evaluation of Volatile Organic Chemical Emissions from In Version 1.2, January 2017 (Emission testing method for California Spectrum)	ent of Public Health, "Standard Method for the door Sources Using Environmental Chambe	ie –
	See California Department of Public Health's website for certification pr hhtps://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Page		
	4.504.5 COMPOSITE WOOD PRODUCTS. Hardwood plywood, partic composite wood products used on the interior or exterior of the building formaldehyde as specified in ARB's Air Toxics Control Measure for Cor by or before the dates specified in those sections, as shown in Table 4.	is shall meet the requirements for mosite Wood (17 CCR 93120 et seq.),	
	<ul> <li>4.504.5.1 Documentation. Verification of compliance with this s by the enforcing agency. Documentation shall include at least on</li> </ul>	section shall be provided as requested	
	1. Product certifications and specifications.	e el ule fellering.	
	<ol> <li>Chain of custody certifications.</li> <li>Product labeled and invoiced as meeting the Composi CCR, Title 17, Section 93120, et seq.).</li> <li>Exterior grade products marked as meeting the PS-1 of Wood Association, the Australian AS/NZS 2269, Europ 0121, CSA 0151, CSA 0153 and CSA 0325 standards</li> <li>Other methods acceptable to the enforcing agency.</li> </ol>	or PS-2 standards of the Engineered pean 636 3S standards, and Canadian CSA	
	<b>4.505 INTERIOR MOISTURE CONTROL</b> <b>4.505.1 General.</b> Buildings shall meet or exceed the provisions of the	California Building Standards Code.	
	4.505.2 CONCRETE SLAB FOUNDATIONS. Concrete slab foundation California Building Code, Chapter 19, or concrete slab-on-ground floors California Residential Code, Chapter 5, shall also comply with this section	required to have a vapor retarder by the	
	4.505.2.1 Capillary break. A capillary break shall be installed in following:	compliance with at least one of the	
	<ol> <li>A 4-inch (101.6 mm) thick base of 1/2 inch (12.7mm) of a vapor barrier in direct contact with concrete and a constrinkage, and curling, shall be used. For additional in ACI 302.2R-06.</li> <li>Other equivalent methods approved by the enforcing a 3. A slab design specified by a licensed design profession</li> </ol>	oncrete mix design, which will address bleed nformation, see American Concrete Institute agency.	ing,
	4.505.3 MOISTURE CONTENT OF BUILDING MATERIALS. Building	materials with visible signs of water damag	9
	shall not be installed. Wall and floor framing shall not be enclosed when moisture content. Moisture content shall be verified in compliance with	the following:	
	<ol> <li>Moisture content shall be determined with either a probe-type moisture verification methods may be approved by the enforce found in Section 101.8 of this code.</li> <li>Moisture readings shall be taken at a point 2 feet (610 mm) to of each piece verified.</li> <li>At least three random moisture readings shall be performed of</li> </ol>	cing agency and shall satisfy requirements o 4 feet (1219 mm) from the grade stamped on wall and floor framing with documentation	ı
	acceptable to the enforcing agency provided at the time of ap Insulation products which are visibly wet or have a high moisture conter enclosure in wall or floor cavities. Wet-applied insulation products shall	nt shall be replaced or allowed to dry prior to	-
	<ul> <li>recommendations prior to enclosure.</li> <li>4.506 INDOOR AIR QUALITY AND EXHAUST</li> </ul>		
	4.506.1 Bathroom exhaust fans. Each bathroom shall be mechanical following:     1. Fans shall be ENERGY STAR compliant and be ducted to tell		
	<ol> <li>Unless functioning as a component of a whole house ventilat humidity control.</li> </ol>	tion system, fans must be controlled by a	
	<ul> <li>a. Humidity controls shall be capable of adjustment betwee equal to 50% to a maximum of 80%. A humidity control adjustment.</li> <li>b. A humidity control may be a separate component to the integral (i.e., built-in)</li> </ul>	ol may utilize manual or automatic means o	f
	Notes: 1. For the purposes of this section, a bathroom is a room tub/shower combination.		
	2. Lighting integral to bathroom exhaust fans shall compl 4.507 ENVIRONMENTAL COMFORT 4.507.2 HEATING AND AIR-CONDITIONING SYSTEM DESIGN. Heating	ting and air conditioning systems shall be	
	sized, designed and have their equipment selected using the following 1. The heat loss and heat gain is established according to ANSI	methods:	
	<ol> <li>The heat loss and heat gain is established according to ANSI Load Calculation), ASHRAE handbooks or other equivalent of 2. Duct systems are sized according to ANSI/ACCA 1 Manual E ASHRAE handbooks or other equivalent design software or r</li> <li>Select heating and cooling equipment according to ANSI/ACCA Equipment Selection), or other equivalent design software or possible according to ANSI/ACCA and a set of the set of</li></ol>	design software or methods. 0 - 2014 (Residential Duct Systems), methods. CA 3 Manual S - 2014 (Residential	
	Exception: Use of alternate design temperatures necessary to acceptable.	ensure the system functions are	

DISCLAIMER: THIS DOCUMENT IS PROVIDED AND INTENDED TO BE USED AS A MEANS TO INDICATE AREAS OF COMPLIANCE WITH THE CALIFORNIA GREEN BUILDING VERIFICATION WITH THE END USER ASSUMES ALL RESPONSIBILITY ASSOCIATED WITH THE END USER TO MEET THOSE INDIVIDUAL NEEDS. THE END USER TO MEET THOSE INDIVIDUAL NEEDS. THE END USER ASSUMES ALL RESPONSIBILITY ASSOCIATED WITH THE CALIFORNIA GREEN BUILDING VERIFICATION WITH THE FULL CODE. DUE TO THE VARIABLES BETWEEN BUILDING VERIFICATION WITH THE USE OF THIS DOCUMENT, INCLUDING VERIFICATION WITH THE FULL CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING VERIFICATION WITH THE FULL CODE. DUE TO THE VARIABLES BETWEEN BUILDING VERIFICATION WITH THE FULL CODE. DUE TO THE VARIABLES BETWEEN BUILDING VERIFICATION WITH THE FULL CODE.

### RESPON. PARTY

NOT APPLICABLE RESPONSIBLE PARTY (ie: ARCHITECT, ENGINEER, OWNER, CONTRACTOR, INSPECTOR ETC.)

## **CHAPTER 7**

Y N/A RESPON. PARTY

### INSTALLER & SPECIAL INSPECTOR QUALIFICATIONS 702 QUALIFICATIONS

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

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

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

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

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

2. HERS raters are special inspectors certified by the California Energy Commission (CEC) to rate homes in California according to the Home Energy Rating System (HERS).

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

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

### 703 VERIFICATIONS

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



CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD Project Name: Residential Building Calculation Date/Time: 2024-11-14T11:32:10-05:00 Calculation Description: Title 24 Analysis Input File Name: CoweeJohnAddition.ribd22x ENERGY USE INTENSITY Standard Design (kBtu/ft<sup>2</sup> - yr ) Proposed Design (kBtu/ft<sup>2</sup> - yr ) Compliance Margin (kBtu/ft<sup>2</sup> - yr ) Margin Percentage Gross EUI<sup>1</sup> 37.49 37.38 0.11 0.29 Net EUI<sup>2</sup> 37.49 37.38 0.11 0.29 1. Gross EUI is Energy Use Total (not including PV) / Total Building Area. 2. Net EUI is Energy Use Total (including PV) / Total Building Area. REQUIRED SPECIAL FEATURES The following are features that must be installed as condition for meeting the modeled energy performance for this computer analysis. New ductwork added is less than 25 ft. in length HERS FEATURE SUMMARY The following is a summary of the features that must be field-verified by a certified HERS Rater as a condition for meeting the modeled energy performance for this computer analysis. Additional detail is provided in the building tables below. Registered CF2Rs and CF3Rs are required to be completed in the HERS Registry BUILDING - FEATURES INFORMATION 01 02 03 04 05 06 Number of Water Number of Dwelling Number of Ventilation Number of Bedrooms Number of Zones Project Name Conditioned Floor Area (ft<sup>2</sup>) Cooling Systems Heating Systems Units **Residential Building** 1251 1 3 2 0 ZONE INFORMATION 01 02 03 04 05 06 Zone Name Zone Type HVAC System Name Zone Floor Area (ft<sup>2</sup>) Avg. Ceiling Height Water Heating System 1 First Floor Conditioned HVAC System1 26 8 DHW Sys 1

**Registration Number:** 

First Floor (Existing)

Registration Date/Time:

Report Version: 2022.0.000 Schema Version: rev 20220901

1225

HERS Provider:

DHW Sys 1

Report Generated: 2024-11-14 08:32:21

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Conditioned

CA Building Energy Efficiency Standards - 2022 Residential Compliance

HVAC System1

Project Name: Residential Building Calculation Description: Title 24 Analysis Calculation Date/Time: 2024-11-14T11:32:10-05:00 Input File Name: CoweeJohnAddition.ribd22x

8.3

CF1R-PRF-01-E (Page 2 of 10)

07

1

07

Status

New

Existing Unchanged

CF1R-PRF-01-E

(Page 3 of 10)

ENERGY USE SUMMARY									
Energy Use	Standard Design Source Energy (EDR1) (kBtu/ft <sup>2</sup> -yr)	Standard Design TDV Energy (EDR2) (kTDV/ft <sup>2</sup> -yr)	Proposed Design Source Energy (EDR1) (kBtu/ft <sup>2</sup> -yr)	Proposed Design TDV Energy (EDR2) (kTDV/ft <sup>2</sup> -yr)	Compliance Margin (EDR1)	Compliance Margin (EDR2)			
Space Heating	0	72.26	0	71.85	0	0.41			
Space Cooling	0	17.82	0	17.44	0	0.38			
IAQ Ventilation	0	0	0	0	0	0			
Water Heating	0	33.08	0	33.08	0	0			
Self Utilization/Flexibility Credit				0		0			
Efficiency Compliance Total	0	123.16	0	122.37	0	0.79			
Photovoltaics		0		0					
Battery				0					
Flexibility									
Indoor Lighting	0	8.23	0	8.23					
Appl. & Cooking	0	17.95	0	17.96					
Plug Loads	0	46.26	0	46.26					
Outdoor Lighting	0	1.86	0	1.86					
TOTAL COMPLIANCE	0	197.46	0	196.68					

Registration Number:			tion Dat	e/Time: H	HERS Provider:	
CA Building Energy Efficiency Standards - 2022 Residential Compliance				2022.0.000 R : rev 20220901	Report Generated: 2024-11-14 08:32:21	
СЕРТИ	FICATE OF COMPLIANCE - RESIDENTIAL P					CF1R-PRF-01-E
CERTI	FICALE OF COMPLIANCE - RESIDENTIAL P	ERFORMANCE COMPLIANCE METHOD				CFIR-PRF-01-E
Projec	<b>t Name:</b> Residential Building		Calcul	ation Date/Time: 2024-11-14T11:32:10-	05:00	(Page 1 of 10)
Calcul	ation Description: Title 24 Analysis		Input	ile Name: CoweeJohnAddition.ribd22x		
GENER	RALINFORMATION					
01	Project Name	Residential Building				
02	Run Title	Title 24 Analysis				
03	Project Location	509 Ramona Avenue				
04	City	Albany	05	Standards Version	2022	

03		Project Location	509 Ramona Avenue					
04		City	Albany	05	Standards Version	2022		
06		Zip code	94706	07	Software Version	EnergyPro 9.3		
08		Climate Zone	3	09	Front Orientation (deg/ Cardinal)	270		
10		Building Type	Single family	11	Number of Dwelling Units	1		
12		Project Scope	Addition and/or Alteration	13	Number of Bedrooms	3		
14		Addition Cond. Floor Area (ft <sup>2</sup> )	26	15	Number of Stories	1		
16		Existing Cond. Floor Area (ft <sup>2</sup> )	1225	17	Fenestration Average U-factor	0.3		
18	Total Cond. Floor Area (ft <sup>2</sup> )		1251	19	Glazing Percentage (%)	28.46%		
20		ADU Bedroom Count	n/a	21	ADU Conditioned Floor Area	n/a		
22		Fuel Type	Natural gas	23	No Dwelling Unit:	No		
COMPL	COMPLIANCE RESULTS							
	01	Building Complies with Computer Performance						
	02	Building does not require field testing or HERS verification						
	03	This building incorporates one or	more Special Features shown below					

CA Building Energy Efficiency Standards - 2022 Residential Compliance

**Registration Number:** 

Registration Date/Time: Report Version: 2022.0.000 Schema Version: rev 20220901 HERS Provider:

Report Generated: 2024-11-14 08:32:21

Project Name Calculation D FENESTRATION	escription:	Title 24 Analys	is							-	me: 2024-11 weeJohnAdd			5:00			(Page 6 of 10
01	02	03	04	05	06	07	08	09	10	11	12		13	14		15	16
Name	Туре	Surface	Orientatio n	Azimuth	Width (ft)	Heigh t (ft)	Mult.	Area (ft <sup>2</sup> )	U-fac	tor U-facto Sourc	I SHGC	SHGG	C Source	Exteri Shadi		Status	Verified Existing Condition
Window 7	Window	Northwest Wall		315			1	30	0.5	B Table 110.6-	0.65		able .0.6-B	Bug Scr	reen	Existing	g No
Window 8	Window	North Wall 2	Left	0			1	81	0.5	B Table 110.6-	0.65		able .0.6-B	Bug Scr	reen	Existing	g No
Window 9	Window	East Wall 2	Back	90			1	40	0.5	3 Table 110.6-	0.65		able .0.6-B	Bug Scr	reen	Existing	g No
Window 10	Window	Southeast Wall		135			1	25.4	0.5	B Table 110.6-	1 11 65		able .0.6-B	Bug Scr	reen	Existing	g No
OPAQUE SURF	ACE CONSTR	UCTIONS															
01		02		03			04			05	06		07			08	
Constructio	on Name	Surface Typ	e Co	onstruction T	ype		Frami	ng		Total Cavity R-value	Interior / Ex Continuo R-value	us	U-factor		Ass	sembly L	ayers
R-19 V	Vall	Exterior Wa	lls We	ood Framed	Wall	2x	6@16i	n. O. C.		R-19	None / No	one	0.074	Cavity,	/ Frame	: R-19 in 2x6	osum Board 5-1/2 in. (R-18) / Coat Stucco
Default Wal 197		Exterior Wa	lls We	ood Framed	Wall	2x	6 @ 16 i	n. O. C.		R-0	None / No	one	0.347	Ca	avity / Fi	rame: no	osum Board o insul. / 2x6 Coat Stucco
R-30 Roof	No Attic	Cathedral Ceil	lings	Wood Frame Ceiling	ed	2x:	10@16	in. O. C.		R-30	None / No	one	0.037		Roc Siding/s Cavity /	of Deck: \ sheathin Frame: R	sphalt Shingle) Wood g/decking -30 / 2x10 ssum Board
		icy Standards - 2	022 Residen	tial Complia	nce		Re	•	rsion: 2	/Time: 022.0.000 rev 20220901				RS Provide		024-11-1	4 08:32:21
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Registration Number:

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Report Version: 2022.0.000 Schema Version: rev 20220901 HERS Provider:

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(Page 4 of 10)

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD Project Name: Residential Building Calculation Description: Title 24 Analysis

CA Building Energy Efficiency Standards - 2022 Residential Compliance

OPAQUE SURFAC	ES									
01	02	03	04	05	06	07	08	09	10	11
Name	Zone	Construction	Azimuth	Orientation	Gross Area (ft <sup>2</sup> )	Window and Door Area (ft2)	Tilt (deg)	Wall Exceptions	Status	Verified Existing Condition
South Wall	First Floor	R-19 Wall	180	Right	26.4	12	90	none	New	n/a
North Wall	First Floor	R-19 Wall	0	Left	25.6	12	90	none	New	n/a
East Wall	First Floor	R-19 Wall	90	Back	57.7	42	90	none	New	n/a
South Wall 2	First Floor (Existing)	Default Wall Prior to 197	180	Right	400.5	58.2	90	none	Existing	No
Southwest Wall	First Floor (Existing)	Default Wall Prior to 197	225	n/a	38.6	20.4	90	none	Existing	No
West Wall	First Floor (Existing)	Default Wall Prior to 197	270	Front	145.1	35	90	none	Existing	No
Northwest Wall	First Floor (Existing)	Default Wall Prior to 197	315	n/a	56.9	30	90	none	Existing	No
North Wall 2	First Floor (Existing)	Default Wall Prior to 197	0	Left	427.5	81	90	none	Existing	No
East Wall 2	First Floor (Existing)	Default Wall Prior to 197	90	Back	106.4	40	90	none	Existing	No
Southeast Wall	First Floor (Existing)	Default Wall Prior to 197	135	n/a	52.3	25.4	90	none	Existing	No
Interior Surface Wall	First Floor (Existing)>>First Floor	Default Wall Prior to 1971	n/a	n/a	10.3	0	n/a		Existing	No
Roof 2	First Floor (Existing)	Default Roof Prior to 197	n/a	n/a	1225	n/a	n/a		Existing	No
Raised Floor	First Floor	R-19 Floor Crawlspace	n/a	n/a	26	n/a	n/a		New	n/a
Raised Floor 2	First Floor (Existing)	Default Floor Crawlspace	n/a	n/a	1225	n/a	n/a		Existing	No

	OF COMPLIA e: Residential	NCE - RESIDE Building	NTIAL P	ERFORM	MANCE	E COMI	PLIANCE ME		lation Date/	<b>Time: 2024-11-</b> 1	14T11:32:10-	-05:00		CF1R-PRF-01-E (Page 9 of 10)					$\overline{\mathbb{N}}$	
	escription: T	itle 24 Analys	is					Input	File Name:	CoweeJohnAddi	tion.ribd22x				1			$\mathcal{M}$		
	01			02				03			04		05							
Heatin	Name g Component	1		System 1		e		Number of Uni	its		JE - 78		Heating Unit	: Brand					CHIT	
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01	02	03	04 Duct			07 uct	08 09 Surface Area	10	11	12	13	14	15	16				INTE	RIORS	• P
Name	Туре	Design Type	R-va Suppl	alue Retur n	Loca Suppl y		Suppl Retu	Bynass Duct	Duct Leakag	e HERS Verification	Status	Verified Existing Conditio	g Distribution	New Ducts >= 25 ft				ALBA	9 RAM NY, CA 10—517	947
Air	Unconditio	Non-	y		<b>y</b> Atti	Atti		No Bypass	Existing	Air Distribution	Existing +								cowee06 ectural-	
Distribution System 1	ned attic	Verified	R-6	R-6	с	с	n/a n/a	Duct	(not specified)	System	New	No		No						
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01 Name	02 System Typ	03 Distribut		04 Vater He		05 Number		ating Com	pact	HERS Wate	09 er Heater	10 Status	11 Verified Existing	12 Existing Water Heating				111	I	
	Domestic H	Туре	<u> </u>	Name		Units 1					v Heater	Existing	Condition	System					1	
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	Heating Element Type	Tank Type	# of Units	Tank ' (ga		Heatin Efficien	y Efficienc	Rated Input Type	Input Rating or Pilot	Tank Star Insulation Los R-value Reco	is or Ratin	g or Tank	ocation Statu	Verified s Existing Condition				ļЦ		
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01 Name	02 System Typ	03 e Heating U		04 Heating quipme		05 Cooling	Unit Faui	oling	07 Name	istribution Th	09 equired ermostat	10 Status	11 Verified Existing	12 Existing HVAC				1		
	Heating an	Name		Count		Nam Coolir	<sup>2</sup> 0	unt			Туре		Condition	System						
HVAC System1	cooling system othe	Compone er 1	ent	1		Compor 1	ent	1 HVA		istribution System 1	n/a	Existing	No					ΙĽ		
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	ACE CONSTRU				03			)4	05	06	07		08							
Constructio	on Name	Surface Typ	ie	Constru	uction T	Туре	Fra	ming	Total Cavit R-value	y Interior / Exte Continuou R-value	us U-facto	or	Assembly Lay	/ers						
Default Wal		Interior Wal	lls	Wood F	ramed	Wall	2x6@	6 in. O. C.	R-0	None / Nor			nside Finish: Gypsu wity / Frame: no in					1		
197	1											Oth	er Side Finish: Gyj ng: Light Roof (Asj	psum Board				REV	ISIONS	;
Attic RoofFi (Existi		Attic Roofs	6		d Frame eiling	ed	2x4@	4 in. O. C.	R-0	None / 0	0.644	1	Roof Deck: W Siding/sheathing/ wity / Frame: no in	ood ′decking				JOB:		
													Floor Surface: Ca Floor Deck: W	rpeted				DAT	E: 11/2	24/20
R-19 Floor Ci	rawlspace	Floors Over Crawlspace		Wood Fr	ramed I	Floor	2x6 @ 1	6 in. O. C.	R-19	None / Nor	ne 0.05		Siding/sheathing/ Frame: R-19 in 5- 2x6	decking				SHE	ET TIT	LE:
Default	Floor	Floors Over	r										Floor Surface: Ca Floor Deck: W					II _		
Crawls	pace	Crawlspace	•	Wood Fr	ramed	Floor	2x12 @	16 in. O. C.	R-0	None / Nor	ne 0.216		Siding/sheathing/ vity / Frame: no in						-24	
Default Roo 197		Ceilings (belo attic)	wc		d Frame eiling	ed	2x10@	16 in. O. C.	R-11	None / Nor	ne 0.043		avity / Frame: R-1 nside Finish: Gypsu							
JILDING ENV	/ELOPE - HERS 01	VERIFICATION		02				03	I		04		05							
•	ation Installati	on (QII) Hig	h R-value	e Spray I		nsulatio	n Buildi	ng Envelope Air	Leakage	CF	FM50		CFM50	)				SHE	ET NO	•
N	ot Required	I	r 	Not Requ	an eu			N/A			n/a		n/a		I					-
																			G	1
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Project Nam	OF COMPLIA	l Building		ERFORM	IANCE COM	IPLIANC	E METHO	Calcul	ation Date/T				00		CF1R-PRF-01-E (Page 9 of 10)	
	Description: 7		ysis					Input	File Name: Co	oweeJohnAd	ldition.ribd	122x				
	01	-		02				03			04			05		
Heati	Name ng Component	1		System To ntral gas f			Nur	nber of Unit	ts		FUE - 78	cy		Heating Unit	Brand	ARCH
HVAC - DISTR		EMS											•			
01	02	03	04 Duc	05 t Ins.	06 07 Duct	08	09	10	11	12	13		14	15	16	INTERIOF
Name	Туре	Design Typ	be 🗕 🗕 🚽		Location Suppl Retur		Retur B	ypass Duct	Duct Leakage	HERS Verification	n Statu	us	Verified Existing Condition	Existing Distribution system	New Ducts >= 25 ft	509 R ALBANY,
Air			<u>у</u>	n	y n	У	n		Existing	Air						510-5 johncowe architectu
Distribution System 1	Unconditio ned attic	Non- Verified	R-6	R-6	Atti Atti c c	n/a	n/a	No Bypass Duct	(not specified)	Distribution System 1-hers-dist	New	-	No		No	
IVAC - FAN S	YSTEMS									ļ						
		01 lame					02 Type				03 (Watts/CFN	M)		04 Name		LA CARACTER STATE
	HVA	AC Fan 1				Н	VAC Fan			(	0.58			n/a		
HERS RATER	VERIFICATION	OF EXISTING	CONDITIC	ONS												y ohn M
																CONSULT
Registration CA Building B	Number: Energy Efficienc	cy Standards -	2022 Resi	dential Co	mpliance			istration Da	te/Time: 2022.0.000				Provider: rt Generate	d: 2024-11-14	08:32:21	
				-					n: rev 20220901	L				_ ,		
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roject Nam	OF COMPLIA	l Building		ERFORM	IANCE COM	IPLIANC	E METHO	Calcul	ation Date/T				00		CF1R-PRF-01-E (Page 8 of 10)	
	Description: 7	Fitle 24 Analy	ysis					Input	File Name: C	oweeJohnAd	ldition.ribd	122x				
O1	ING SYSTEMS 02	03	3	04	05		06	07	,	08	09	1	lo	11	12	
Name	System Ty	pe Distrib		Water Hea Name			olar Heatin System	g Comp Distrib			ater Heater Name (#)	Sta	atus	Verified Existing	Existing Water Heating	
DHW Sys 1	Domestic I	Hot Stand		DHW Hea			n/a	Nor			HW Heater	Fxi	sting	Condition No	System	
	Water (DH	W)	uaru	1			iiya			1/4	1 (1)		build	No		
01	02	03	04	05	06		07	08	09	10	11	12	13	14	15	Ž
Name	Heating Element	Tank Type	# of	Tank \			ficiency	Rated	Rating or I	sulation L	ossor	1st Hr. Rating or	Tank Loca	ation Status	Verified s Existing	
	Туре	iuni iype	Units	(gal	) Туре		, , , , , , , , , , , , , , , , , , ,	nput Type	Pilot	R-value Re Int/Ext)	COVERV I	low Rate			Condition	
DHW Heater 1	Gas li	Consumer nstantaneous	1	0	UEF	:	0.82	Btu/Hr	200000	0	n/a	n/a		Existin	ng No	
VATER HEAT	ING - HERS VEF	RIFICATION	2		03			04		05			16		07	
Na		Pipe Ins			Parallel Pipi	ing	Comp	act Distribut	tion Com	pact Distribut Type	tion R		ion Control		rain Water Heat ecovery	
DHW Sy	rs 1 - 1/1	Not Re	equired		Not Require	ed	N	ot Required		None		Not Re	equired	Not	Required	
PACE COND	ITIONING SYST	EMS 03		04	05	;	06		07	08	09	1	10	11	12	
Name	System Ty	Heating	; Unit	Heating	t Cooling	; Unit	Cooling Equipme	;	Name Dis	tribution .	Required Thermostat		atus	Verified Existing	Existing HVAC	
	Heating ar	nd Heati		Count	Cool		Count			Name Air	Туре	+		Condition	System	
HVAC System1	cooling system oth			1	Compo 1		1	HVA		tribution /stem 1	n/a	Ex	isting	No		
Registration	Number:						Reg	istration Da	te/Time:			HERS	Provider:			
CA Building E	Energy Efficienc	cy Standards -	2022 Resi	dential Co	ompliance				2022.0.000 1: rev 20220901	L		Repo	rt Generate	d: 2024-11-14	08:32:21	
	<b>OF COMPLIA</b> <b>Ie:</b> Residentia		DEINTIAL P	ERFORM	IANCE COM	IPLIANC	E METHO		ation Date/T	ma. 2024 1	1 14711.27	0.10 OF	00		CF1R-PRF-01-E (Page 7 of 10)	
alculation	Description: 7	Fitle 24 Analy	ysis						File Name: C						(1050 ) 01 10)	
02 02		02			03		04		05	06		07		08		
	ion Name	Surface Ty	ype	Constru	ction Type		Framin	g	Total Cavity R-value	Interior / E Continu R-valu	ious U·	-factor		Assembly Lay	vers	
Constructi	all Prior to	Interior W	Valls	Wood Fr	amed Wall	2	x6 @ 16 in	. O. C.	R-0	None / N	Jone (	0.266		e Finish: Gypsu y / Frame: no ir		
Default Wa													Other S	Side Finish: Gyp	osum Board	REVISIO
	71		ofs		Framed	2	x4 @ 24 in	. O. C.	R-0	None ,	/0 0	0.644	Sidi	Light Roof (Asp Roof Deck: Wo ing/sheathing/	ood decking	JOB:
Default Wa	First Floor	Attic Roo	1											y / Frame: no ir oor Surface: Ca		DATE: 1
Default Wa 19 Attic Rooff	First Floor	Attic Roc										,		Floor Deck: W		
Default Wa 19 Attic Rooff	First Floor ting)	Attic Roc Floors Ov Crawlspa			amed Floor	2	x6 @ 16 in	. O. C.	R-19	None / N	lone	0.05	Sidi	ing/sheathing/	decking	
Default Wa 19 Attic Rooff (Exist	First Floor ting)	Floors Ov			amed Floor	2	x6 @ 16 in	. O. C.	R-19	None / N	lone	0.05	Sidi Cavity / Fra	ing/sheathing/ ame: R-19 in 5- 2x6	decking -1/2 in. (R-18) /	SHEET
Default Wa 19 Attic Rooff (Exist	First Floor ting) Crawlspace t Floor	Floors Ov	ver	Wood Fra	amed Floor amed Floor		x6 @ 16 in :12 @ 16 ir		R-19 R-0	None / N		0.05	Sidi Cavity / Fra Flo Sidi	ing/sheathing/ ame: R-19 in 5- 2x6 oor Surface: Car Floor Deck: We ing/sheathing/	'decking -1/2 in. (R-18) / rpeted lood 'decking	
Default Wa 197 Attic Rooff (Exist R-19 Floor ( Default Crawls	First Floor ting) Crawlspace t Floor space	Floors Ov Crawlspa Floors Ov Crawlspa	ver	Wood Fra	amed Floor	2>	12 @ 16 ir	n. O. C.	R-0	None / N	None (	0.216	Sidi Cavity / Fra Flc Sidi Cavity	ing/sheathing/ ame: R-19 in 5- 2x6 por Surface: Ca Floor Deck: Wo ing/sheathing/ r / Frame: no in	'decking -1/2 in. (R-18) / rpeted 'ood 'decking isul. / 2x12	
Default Wa 19 Attic Rooff (Exist R-19 Floor (	First Floor ting) Crawlspace t Floor space of Prior to	Floors Ov Crawlspa Floors Ov	ver ace elow	Wood Fra Wood Fra Wood		2>		n. O. C.			None (		Sidi Cavity / Fra Flc Sidi Cavity Cavity	ing/sheathing/ ame: R-19 in 5- 2x6 oor Surface: Car Floor Deck: We ing/sheathing/	'decking -1/2 in. (R-18) / rpeted 'ood 'decking isul. / 2x12 1.0 / 2x10	
Default Wa 19 Attic Rooff (Exist R-19 Floor O Default Crawls Default Roi 19	First Floor ting) Crawlspace t Floor space of Prior to	Floors Ov Crawlspa Floors Ov Crawlspa Ceilings (bu attic)	ver ace elow	Wood Fra Wood Fra Wood	amed Floor Framed	2>	12 @ 16 ir	n. O. C.	R-0	None / N	None (	0.216	Sidi Cavity / Fra Flc Sidi Cavity Cavity	ing/sheathing/ ame: R-19 in 5- 2x6 por Surface: Ca Floor Deck: We ing/sheathing/ r / Frame: no in y / Frame: R-11	'decking -1/2 in. (R-18) / rpeted 'ood 'decking isul. / 2x12 1.0 / 2x10	T-2
Default Wa 19 Attic Rooff (Exist R-19 Floor O Default Crawls Default Ro 19 BUILDING EN Quality Insu	First Floor ting) Crawlspace t Floor space of Prior to 07 VELOPE - HERS	Floors Ov Crawlspa Floors Ov Crawlspa Ceilings (bu attic) 5 VERIFICATIO	ver ace elow PN	Wood Fra Wood Fra Wood Ce 02	amed Floor Framed iling oam Insulatio	2× 2×	<12 @ 16 ir	n. O. C. n. O. C.	R-0 R-11	None / N None / N	None C	0.216	Sidi Cavity / Fra Flc Sidi Cavity Cavity	ing/sheathing/ ame: R-19 in 5- 2x6 bor Surface: Ca Floor Deck: We ing/sheathing/ / Frame: no in y / Frame: R-11 le Finish: Gypsu	/decking -1/2 in. (R-18) / rpeted ood /decking sul. / 2x12 1.0 / 2x10 um Board	SHEET T-2 SHEET

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Project Nam	ne: Resident Description	ial Buildin	g	AL F L			JOINTE			Calcul	ation Date/ File Name:				5:00		(Page 9 of :	
HVAC - HEAT	ING UNIT TYP	PES			02			1		03			04			05		
	Name				ystem T				Nu	mber of Unit	s	ŀ	leating Eff	-		Heating Ur	it Brand	ARCH
	ing Compone			Cent	tral gas f	urnace				1			AFUE -	78		n/a		
01	02	0		04 Duct	05 Ins.	06 Duct		08	09	10	11	12	2	13	14	15	16	
Name	Туре	Design	n Type	R-val	lue	Locatio Suppl R	on S	Surface Suppl I		Bypass Duct	Duct Leaka	ge Verifica		Status	Verified Existing Conditior		on New Duc >= 25 ft	
Air Distribution System 1	Unconditi ned attic		on- fied	, R-6	R-6	Atti /	Atti c	-	n/a	No Bypass Duct	Existing (not specified)	Air Distribu Syste 1-hers	ution E em	xisting + New	No		No	johncow architect
IVAC - FAN S	SYSTEMS	01			I				02		· · · · · · · · · · · · · · · · · · ·		03			0		
		Name						Т	<b>ype</b> AC Fan			Fan Po	05 ower (Watt 0.58	s/CFM)		Na	me	
HFRS RATER		VAC Fan 1							AC Fan				0.58			n,	d	- von
																		CONSUL
											_							
Registration CA Building	Number: Energy Efficie	ncy Standa	rds - 2022	Reside	ential Co	ompliance	e			gistration Da port Version:					RS Provider oort Genera	: ited: 2024-11-1	4 08:32:21	
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ERTIFICAT	E OF COMPL	JANCE - P	ESIDENTI		REOPM		ОМР		МЕТНИ	DD							CF1R-PRF-0	-E
roject Nam	ne: Resident Description	ial Buildin	g	- 16 PC	OKIV		JUNIPL			Calcul	ation Date/ File Name:				5:00		(Page 8 of :	
01	02		03		04		05		06	07		08	09		10	11 Verified	12 Existing Wat	
Name	System	Type	stribution Type		ater Hea Name		mber o Units		ar Heatir System	ng Comp Distrib		HERS rification	Water H Name		Status	Existing Condition	Heating System	
DHW Sys 1	Domesti Water (D		Standard	D	HW Hea 1	ater	1		n/a	Nor	ne	n/a	DHW He 1 (1)		xisting	No		
ATER HEAT		03		04	05		06		07	08	09	10	11	12	1	2 1	15	ž Z
01	02 Heating			04 ‡ of	05 Tank V	и н	eating	+		Rated	Input	Tank Insulation	11 Standby Loss or	151 11			Verifie	
Name	Element Type	Tank Ty	ne i	nits	(gal	n   Ett	ficiency Type	/ Effic	ciency	Input Type	Rating or Pilot	R-value (Int/Ext)	Recover	I Rating (		ocation Stat	us Existin Conditio	
DHW Heater 1	Gas	Consum Instantane		1	0		UEF	0	).82	Btu/Hr	200000	0	n/a	n/a		Exist	ing No	
	'ING - HERS V )1	ERIFICATIO	02			0	3			04		05			06		07	
Na	ime	Pip	e Insulatio	on		Parallel	Piping		Comp	oact Distribut	tion Co	mpact Distr Type	ribution	Recircul	ation Contr		Drain Water He Recovery	at
	/s 1 - 1/1		ot Required	d		Not Re	quired		Ν	lot Required		None		Not	Required	No	ot Required	
01	ITIONING SYS		03		04		05		06		07	08	09	,	10	11	12	
Name	System T	vne	ating Unit Name	Eq	Heating quipmen Count	nt   Coo	oling U Name		Coolin Equipmo Count	ent Fan	Name	istribution Name	Requ Therm Typ	ostat	Status	Verified Existing Condition	Existing HV System	
HVAC System1	Heating coolin	g Co	Heating mponent		1		Cooling		1		CFan 1 D	Air Vistribution	n/		Existing	No		
Registration	system o	ther	1				1		Po	gistration Da		System 1			RS Provider			Image: Second se
	Energy Efficie	ncy Standa	rds - 2022	Reside	ential Co	ompliance	e		Re	port Version:	2022.0.000					ited: 2024-11-1	4 08:32:21	
									Sci	hema Versior	1: rev 202209	01						
ERTIFICATI	E OF COMPL	IANCE - R	ESIDENTI	AL PE	RFORM	/ANCE C	OMPL	IANCE	METH	OD							CF1R-PRF-0	-E
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-	RFACE CONST		02			03			04		05		06	07		08		
Construct	ion Name	Surfa	ice Type		Constru	ction Typ	be		Framir	ng	Total Cavi R-value	<sup>ty</sup> Con	or / Exterio ntinuous -value	r U-factor		Assembly L	ayers	
Default W 19		Inter	ior Walls		Wood Fr	ramed Wa	all	2x6	6 @ 16 ir	n. O. C.	R-0		e / None	0.266	Cav	ide Finish: Gyp ity / Frame: no	insul. / 2x6	
				+												r Side Finish: G g: Light Roof (A	sphalt Shingle)	
Attic Roof (Exis		Atti	c Roofs			l Framed eiling		2x4	4 @ 24 ir	n. O. C.	R-0	No	one / 0	0.644		Roof Deck: N iding/sheathing ity / Frame: no	g/decking	JOB:
		Elec	ors Over	+												Floor Surface: ( Floor Deck: )	Carpeted Wood	DATE:
R-19 Floor	Crawlspace		vlspace	V	Nood Fra	amed Flo	or	2x6	6 @ 16 ir	n. O. C.	R-19	Non	e / None	0.05		iding/sheathin Frame: R-19 in 2x6	g/decking	/ SHEET
Defaul			rs Over		Nood 5-	amed Flo	or	2-1	2 @ 16 i	n O C	R-0	Ner	e / None	0.216		Floor Surface: ( Floor Deck:	Wood	1
Crawl	-		wlspace					2x1	ا 10 س ـ		U-77	non	, inone	0.210	Cavi	iding/sheathing ity / Frame: no	insul. / 2x12	_   T-2
	oof Prior to 97		gs (below httic)			l Framed eiling		2x1	0@16i	n. O. C.	R-11	Non	e / None	0.043		vity / Frame: R- side Finish: Gyp		
UILDING EN	IVELOPE - HE 01	RS VERIFIC	ATION		02					03			04			05		┦│ ┣━━
		ation (QII)	High R-	-value		oam Insu	lation	В	uilding E	invelope Air	Leakage		CFM5	0		CFM		SHEET
Quality Insu	Not Required				lot Requi	irod				N/A			n/a			n/a		

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	Page 9 of 10)		00				ation Date, File Name:	Calcul						Building	e: Residential escription: Ti	roject Nam
					04							02			NG UNIT TYPES	VAC - HEATI
ARCH	rand	05 Ieating Unit Bi			leating Effici	, ,	s	03 Imber of Unit	N	$\pm$		System T			Name	
CO		n/a		3	AFUE - 78			1			rnace	tral gas f	Cen		g Component 1	
● AR( INTERIC	16	15	14	13		12	11	10	09	08	06 07	05	04	03	02	01
509 ALBANY, 510-	New Ducts >= 25 ft	Existing Distribution system	Verified Existing Condition	tatus		ege Verific	Duct Leaka	Bypass Duct	e Area Retur n		Duct Location uppl Retur y n	lue	Duct R-va Suppl y	Design Type	Туре	Name
johncow architect	No		No	sting + New	ution Exi	Distrib	Existing (not specified)	No Bypass Duct	n/a	n/a	Atti Atti c c	R-6	R-6	Non- Verified	Unconditio ned attic	Air Distribution System 1
L.S.		04			03				02					01		VAC - FAN S
		Name n/a		CFM)	wer (Watts/ 0.58	Fan Po			<b>Type</b> VAC Fan	[				ame C Fan 1		
John												NS	ONDITIO	OF EXISTING CC	/ERIFICATION C	HERS RATER
CONSUL																
	18-32-21	2024-11-14 0	Provider:					gistration Dat			nnliance	ential C	122 Resid	Standards - 20	lumber: nergy Efficiency	Registration I
	0.52.21	2024-11-14 0	rt Generatet	кер				hema Version			npliance		JZZ Resid	Stanuarus - 20	leigy Efficiency	A building E
	1R-PRF-01-E Page 8 of 10)		00	:32:10-05	4-11-14T11	<b>/Time:</b> 202	ation Date,		CE METH	1PLIAN	ANCE CON	ERFORM	NTIAL P		OF COMPLIAN : Residential	
	1			ibd22x	nAddition.r	CoweeJoh	File Name:	Input					is	tle 24 Analysi	escription: Ti	
	12	11	.0		09	08		07	06	;	05	04		03	NG SYSTEMS	ATER HEATI 01
	xisting Water Heating	xisting	atus	1 5	Water Hea Name (#	HERS		ng Comp Distribu	olar Heat System	er of S		/ater Hea Name		Distribut	System Typ	Name
	System	No	sting	ter	DHW Hea	n/a		Non	n/a	_	_	DHW Hea		ot Standar	Domestic Ho	DHW Sys 1
			-···ð		1 (1)		-	1401	ny a			1		V)	Water (DHW	
Ž	15	14	13	12	11	10	09	08	07	,	06	05	04	03	RS 02	O1
	Verified Existing	on Status	Tank Loca	1st Hr. Rating o	Standby Loss or	Tank Insulation	Input Rating or	Rated	ficiency			Tank \	# of	Tank Type	Heating Element 1	
	Condition	Ji Status		Flow Rat	Recovery Eff	R-value (Int/Ext)	Pilot	Input Type	liciency		Тур	(gal	Units	тапк туре	Туре	Name
	No	Existing		n/a	n/a	0	200000	Btu/Hr	0.82	F	UEF	0	1	Consumer stantaneous	(126	DHW Ieater 1
	07		6			05		04			03				NG - HERS VERI	ATER HEATI
	n Water Heat overy	Shower Drai	ion Control		ribution	ompact Dist Type	ion Co	pact Distribut	Com	ing	Parallel Pip	+	ation	02 Pipe Insula		Nar
	equired	Not Re	quired	Not F		None		Not Required		ed	Not Requir		iired	Not Requ	1 - 1/1	DHW Sys
	12	11	10		09	08	07		06		05	04		MS 03	10NING SYSTE	PACE CONDI
	Existing HVAC	Varified	atus		Require	Distribution		lg	Cooli Equipm		Cooling	Heating		Heating II	System Type	Name
	System	ondition			Туре	Name Air	Name		Cour		Nan	Count		Name		Name
Ш		No	isting	E	n/a	Distribution System 1		HVAC	1	onent	Compo 1	1		Compone	Heating and cooling system othe	HVAC System1
		I	Provider:	HER			e/Time:	gistration Dat	R					I	lumber:	egistration I
>	08:32:21	2024-11-14 0	rt Generated	Rep				port Version: hema Version			npliance	lential Co	022 Resid	/ Standards - 20	nergy Efficiency	A Building E
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	Page 7 of 10)	(F	00				ation Date, File Name:						is		e: Residential escription: Ti	-
								mput			2			CTIONS	ACE CONSTRUC	PAQUE SUR
		08 ssembly Layer		07 U-factor	06 r / Exterior itinuous		05 Total Cavi		04 Fram		3			02 Surface Type		Constructi
				U-factor	value		R-value	ng	Fram	<u> </u>	tion Type	Constru	e	Surface Type	on Name	Constructi
Z1 \ REVISI	ul. / 2x6	inish: Gypsum Frame: no insu e Finish: Gypsu	Cavity	0.266	e / None	Nor	R-0	n.O.C.	x6 @ 16		med Wall	Wood Fr	ls	Interior Wall		Default Wa 197
		ht Roof (Aspha oof Deck: Woo			10		~ ~				Framed	Wood			irst Floor	Attic RoofF
JOB:	ecking	/sheathing/de Frame: no insu	Sidir	0.644	one / 0	N	R-0	n.O.C.	x4 @ 24		ling			Attic Roofs		(Exist
DATE:	d	Surface: Carp oor Deck: Woo	1										,	Electro C		
SHEET	cking	/sheathing/de e: R-19 in 5-1/ 2x6	Sidir	0.05	e / None	Nor	R-19	n. O. C.	x6 @ 16		med Floor	Wood Fr		Floors Over Crawlspace	rawlspace	R-19 Floor C
		Surface: Carp								$\vdash$				ri	Fla - r	~ 1 :
T-:	cking	oor Deck: Woo /sheathing/de rame: no insu	Sidir	0.216	e / None	Nor	R-0	in. O. C.	x12 @ 16	2	med Floor	Wood Fr		Floors Over Crawlspace		Default Crawls
		Frame: R-11.0 inish: Gypsum		0.043	e / None	Nor	R-11	in. O. C.	x10@16	:	Framed ling		w	Ceilings (belo attic)		Default Roo 19
I						I	I			L					/ELOPE - HERS \	
SHEET		05 CFM50			04 CFM50		eakage	03 Envelope Air I	Buildin-	on	am Insulati	02 Sprav F	h Rausiu	on (OII)	01 ation Installatio	

**Registration Number:** 

CA Building Energy Efficiency Standards - 2022 Residential Compliance

Registration Date/Time:

Report Version: 2022.0.000 Schema Version: rev 20220901 HERS Provider:

Report Generated: 2024-11-14 08:32:21

**Registration Number:** 

CA Building Energy Efficiency Standards - 2022 Residential Compliance

Calculation Date/Time: 2024-11-14T11:32:10-05:00

Input File Name: CoweeJohnAddition.ribd22x

Registration Date/Time: Report Version: 2022.0.000

Schema Version: rev 20220901

HERS Provider:

Report Generated: 2024-11-14 08:32:21

Project Narr	ENTIAL MEAS	SURES SU	MMARY				RMS-1
	ne		Building Type				Date
Cowee, L Project Add	John Addition		Colifornio Eng	Multi Family      Grant Climate Zone	Total Cond. Flor	Addition/Alteration	11/14/2024 # of Units
,	nona Avenue Alba	anv		ate Zone 03	1,251	26	# 01 0111(S
INSULA				Area	.,_0.		-
	uction Type		Cavity	0	ecial Feat	ures	Status
Floor	Wood Framed w/Crawl S	pace	R 19	26			New
Wall	Wood Framed		R 19	44			New
Roof	Wood Framed Rafter		R 30	26			New
Floor	Wood Framed w/Crawl S	pace	- no insulation	1,225			Existing
Wall	Wood Framed		- no insulation	342			Existing
Wall	Wood Framed		- no insulation	18			Existing
Wall	Wood Framed		- no insulation	110			Existing
Wall	Wood Framed		- no insulation	27			Existing
		Total Area:	356 Glazing			ed Average U-Factor:	
Orienta	( )		GC Overl			or Shades	Status
Right (S)	12.0	0.300	0.45 none	none	N/A		New
Left (N)	12.0	0.300	0.45 none	none	N/A		New
Rear (E)	42.0	0.300	0.45 none	none	N/A		New
Right (S)	58.2	0.580	0.65 none	none	N/A		Existing
Right (SW) Front (W)	20.4	0.580	0.65 none 0.65 none	none	N/A N/A		Existing
Front (NW)	30.0	0.580	0.65 none	none	N/A		Existing
Left (N)	81.0	0.580	0.65 none	none	N/A		Existing
Rear (E)	40.0	0.580	0.65 none	none	N/A		Existing
Rear (SE)	25.4	0.580	0.65 none	none	N/A		Existing
	SYSTEMS leating	Min. Eff	Cooling	Min.	E#f	Thermostat	Status
1 G	as Central Furnace	78% AFUE	No Cooling	14.0 5	SEER	Setback	Existing
						Duct	
	DISTRIBUTION						•
HVAC [ Locatio		ating	Cooling	Duct Loca	tion	<b>R-Value</b>	Status

<b>RESIDENTIAL MEASURES S</b>	UMMARY			RMS-1	CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE
Project Name Cowee, John Addition	Building Type 🗹 Single Fam	ily □ Addition Alone y ☑ Existing+ Addition/	Alteration	Date 11/14/2024	Project Name: Residential Building Calculation Description: Title 24 Analysis
Project Address	California Energy Climate Zone	Total Cond. Floor Area	Addition	# of Units	DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
509 Ramona Avenue Albany	CA Climate Zone 03	1,251	26	1	1. I certify that this Certificate of Compliance documentation is accurate
INSULATION	Area			a	Documentation Author Name:
Construction Type	Cavity ( <i>ft</i> <sup>2</sup> ) S	pecial Features		Status	Olivia Parker-Swenson
Vall Wood Framed	- no insulation 347			Existing	Company:
Vall Wood Framed	- no insulation 66			Existing	NRG Compliance, LP
Vall Wood Framed	- no insulation 27			Existing	Address:
Roof Wood Framed Attic	R 11 1,225			Existing	4480 Main Street, Suite B
Demising Wood Framed	- no insulation 10			Existing	City/State/Zip:
					Riverside, CA 92501
					RESPONSIBLE PERSON'S DECLARATION STATEMENT I certify the following under penalty of perjury, under the laws of the State of
FENESTRATION       Total Area:         Orientation       Area(ft <sup>2</sup> )       U-Fac       S	356 Glazing Percentage: Glazing Percentage: Glazing Percentage:	28.5% New/Altered Averag		0.30 Status	<ol> <li>I am eligible under Division 3 of the Business and Professions Cod</li> <li>I certify that the energy features and performance specifications i</li> <li>The building design features or system design features identified calculations, plans and specifications submitted to the enforceme</li> <li>Responsible Designer Name:</li> <li>John Cowee</li> </ol>
					Company:
					Architectural Concepts
					509 Ramona Avenue
					City/State/Zip: Berkeley, CA 94706
HVAC SYSTEMS					
Qty. Heating Min. Eff	Cooling Mir	n. Eff Therr	nostat	Status	
					Registration Number:
HVAC DISTRIBUTION		Di	uct		CA Building Energy Efficiency Standards - 2022 Residential Complian
Location Heating	Cooling Duct Loc		Value	Status	
WATER HEATING	lons Min. Eff Distri	bution		Status	
Qty. Type Gall					
Qty. Type Gall					
Qty. Type Gall					

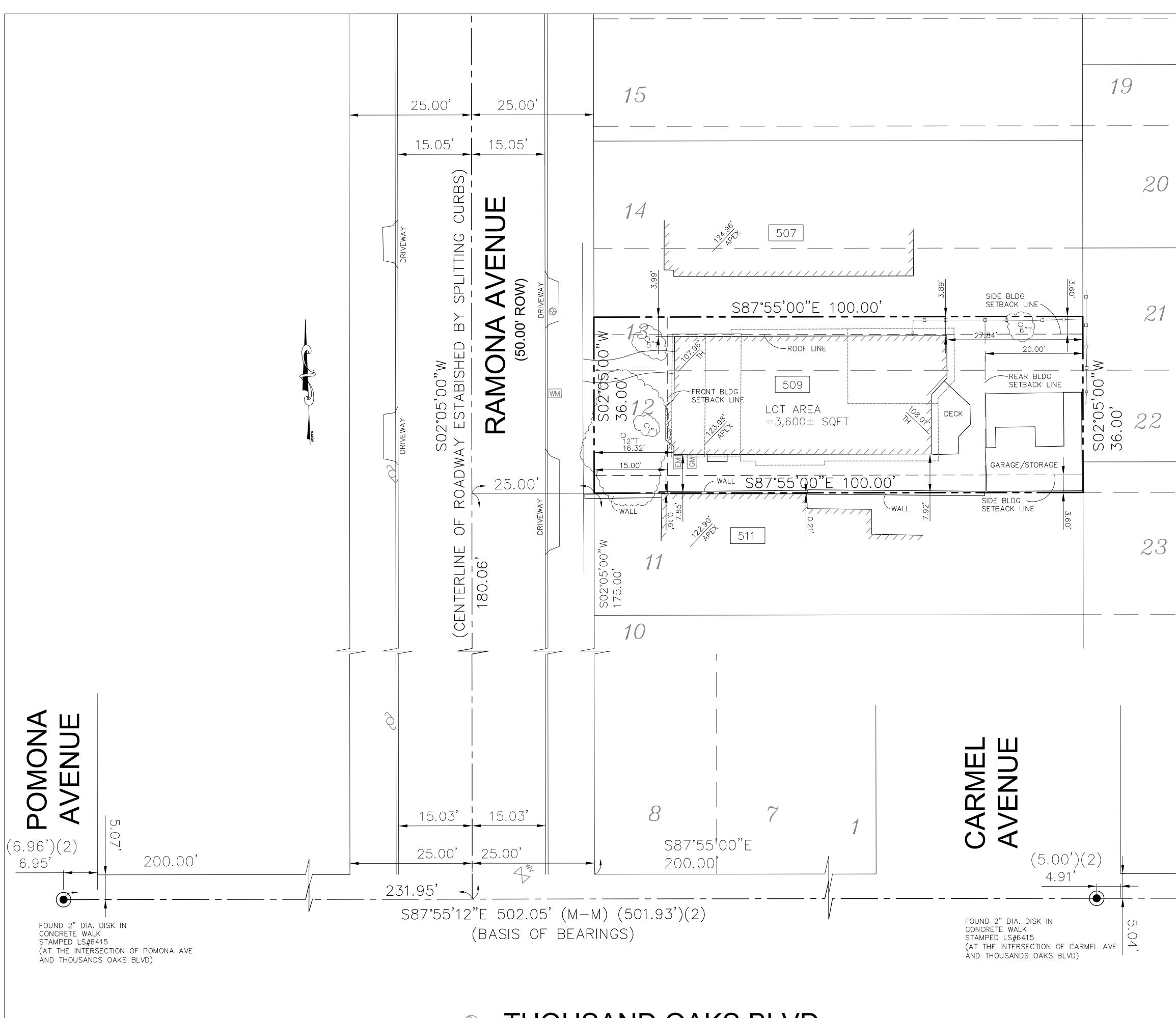
DENTIAL PERFORMANCE COMPLIANCE MET	HOD	CF1R-PRF-01-E
	Calculation Date/Time: 2024-11-14T11:32:10-05:00	(Page 10 of 10)
alysis	Input File Name: CoweeJohnAddition.ribd22x	
TION STATEMENT		
ance documentation is accurate and complete.		
	Documentation Author Signature: Olivia Parks	er-Swenson
	Signature Date: 11/14/2024	
e B	CEA/ HERS Certification Identification (If applicable):	
	Phone: (202)870-7813	
STATEMENT		
and performance specifications identified on this Certification	Responsible Designer Signature:	
	Date Signed:	
	John W. Cowee, JR. Date Signed: 11/24/2024	
	License: C-9199	
	Phone: 510-517-8567	

**Registration Date/Time:** 

Report Version: 2022.0.000 Schema Version: rev 20220901 HERS Provider:

Report Generated: 2024-11-14 08:32:21





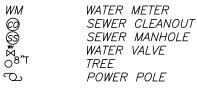
 $\bigcirc$ 

THOUSAND OAKS BLVD (Formerly Garfield Ave)

(60.00' ROW)



ABBREVIATIONS AND LEGEND



WM GM EM

WATER METER BOX GAS METER ELECTRICAL METER CITY MONUMENT BOUNDARY LINE ---- MONUMENT LINE - - OLD LOT LINE ----- BUILDING SETBACK LINE —————— FENCE LINE

## BASIS OF BEARINGS

FOUND CITY MONUMENTS ON THOUSAND OAKS BLVD BETWEEN POMONA AVE AND CARMEL AVE PER ROS#1485.

## <u>REFERENCE</u>

(1) MAP NO. 8 OF REGENTS PARK, FILED 5/20/1907, BK 23, PG 1 (2) RECORD OF SURVEY #1485, FILED 5/1/1997, BK 21, PG 58 (3) ASSESSOR PARCEL MAP, BK 67, PG 2865

### <u>EASEMENTS</u>

A CURRENT TITLE REPORT FOR THE SUBJECT PROPERTY HAS NOT BEEN EXAMINED BY THE SURVEYOR. EASEMENT(S) OF RECORD AS MAY BE DISCLOSED IN THE REPORT ARE NOT SHOWN ON THE MAP. OTHER EASEMENTS OF RECORD MAY ALSO EXIST THAT ARE NOT SHOWN ON THIS MAP

## <u>UTILITY NOTE</u>

THE SURFACE UTILITIES SHOWN ON THIS MAP HAVE BEEN LOCATED BY FIELD SURVEY. THE UNDERGROUND UTILITIES SHOWN HAVE BEEN COMPILED FROM RECORDS OF THE VARIOUS AGENCIES. THE SURVEYOR ASSUMES NO RESPONSIBILITY FOR THEIR INDICATED LOCATION, SIZE, OR TYPE. RECORD UTILITY INFORMATION SHOULD BE CONFIRMED BY EXPOSING THE UTILITY.

## SURVEYOR'S STATEMENT

THIS MAP CORRECTLY REPRESENTS A SURVEY MADE BY ME OR UNDER MY DIRECTION IN CONFORMANCE WITH THE REQUIREMENTS OF THE CALIFORNIA LAND SURVEYORS' ACT AT THE REQUEST OF JOHN COWEE ON DECEMBER 28, 2024.

I HEREBY FURTHER STATE THAT, TO THE BEST OF MY KNOWLEDGE, ALL PROVISIONS OF APPLICABLE STATE LAWS AND LOCAL ORDINANCES HAVE BEEN FULLY SATISFIED.

I HEREBY FURTHER STATE THAT THE PARCEL DESIGNATED BY MY SURVEY AND SHOWN ON THIS MAP IS THE SAME AS THAT SHOWN ON THAT QUIT CLAIM DEED, RECORDED OCTOBER 4, 2017 AS DOCUMENT NO. 2017218798, IN THE OFFICE OF ALAMEDA COUNTY RECORDER, AND IDENTIFIED ON THE CURRENT EQUALIZED ASSESSMENT ROLL OF THE ALAMEDA COUNTY ASSESSOR AS PARCEL NO. 67-2865-014.

I HEREBY ACKNOWLEDGE THAT THIS SURVEY SHALL BE PUBLIC RECORD AND MAY BE AVAILABLE FOR INSPECTION AND DISTRIBUTION TO THE GENERAL PUBLIC.

(kundayo Sowunmi

EKUNDAYO SOWUNMI, RCE 22573 LICENSE EXPIRES DECEMBER 31, 2025



01/13/25

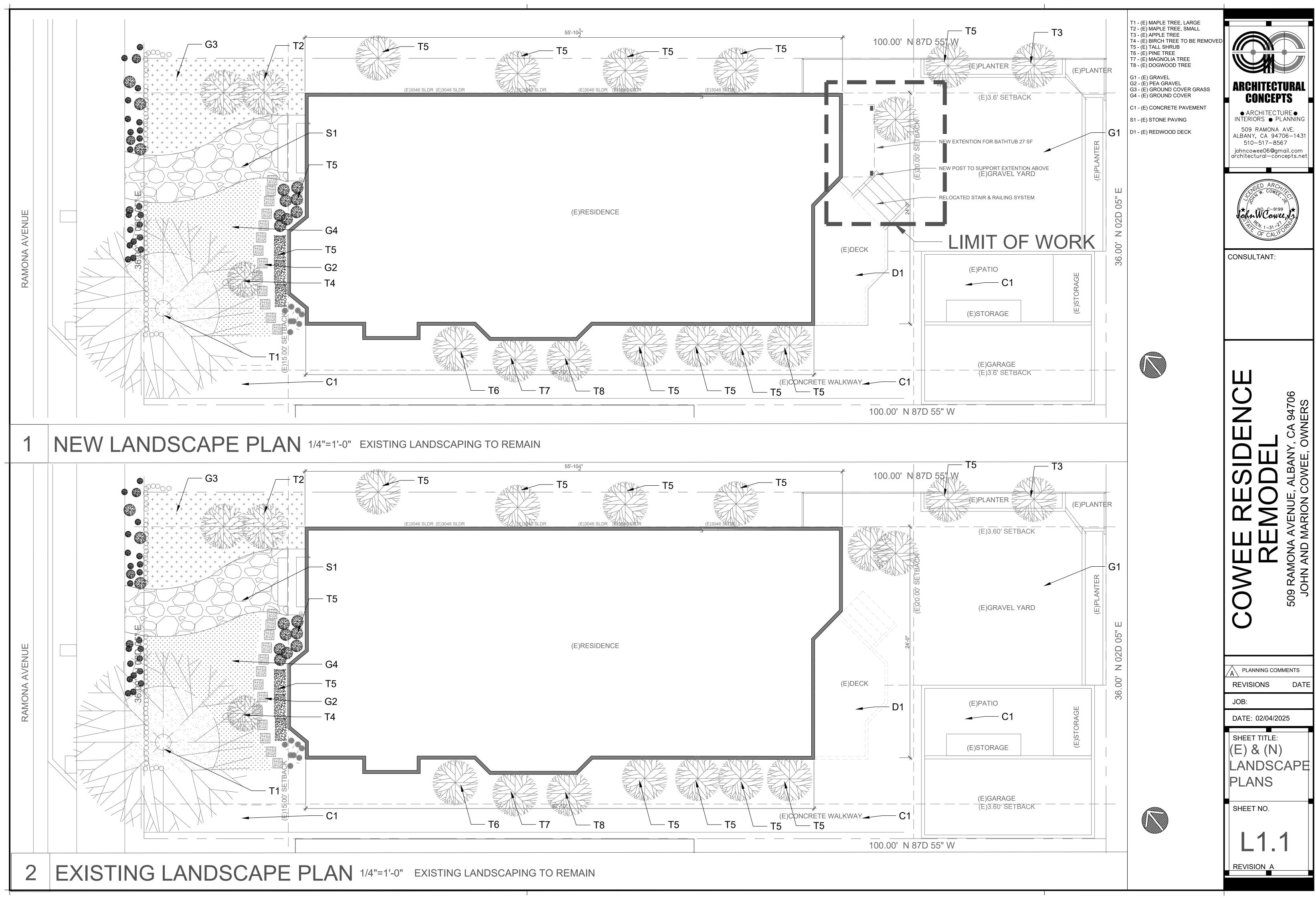
## BOUNDARY SURVEY

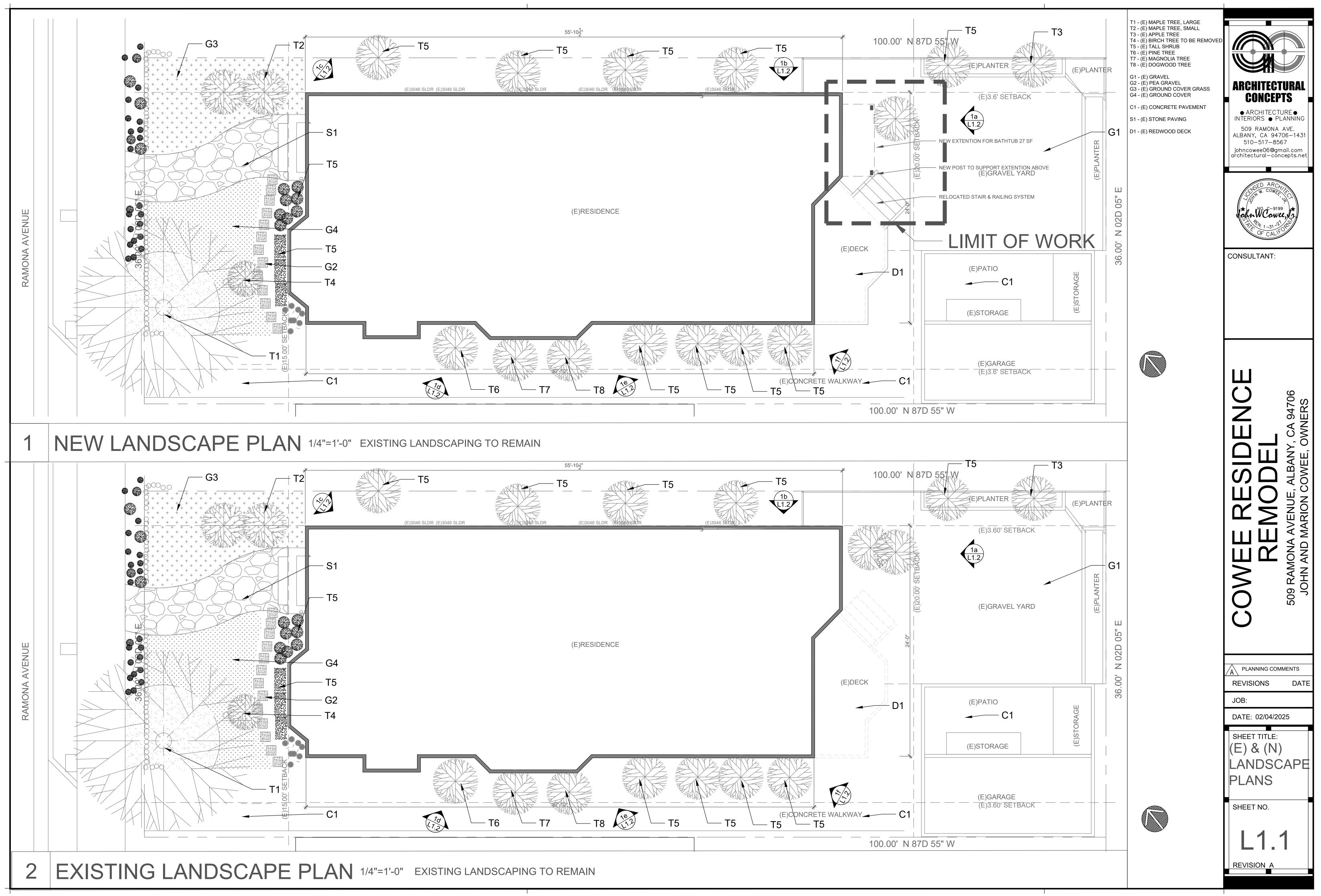
LOT 12 AND THE SOUTHERN 11 FEET OF LOT 13, BLOCK 33 MAP NO. 8 OF REGENTS PARK, FILED MAY 20, 1907, IN BOOK 23 OF MAPS, PAGE 1, IN THE OFFICE OF RECORDER OF ALAMEDA COUNTY APN 67-2865-014

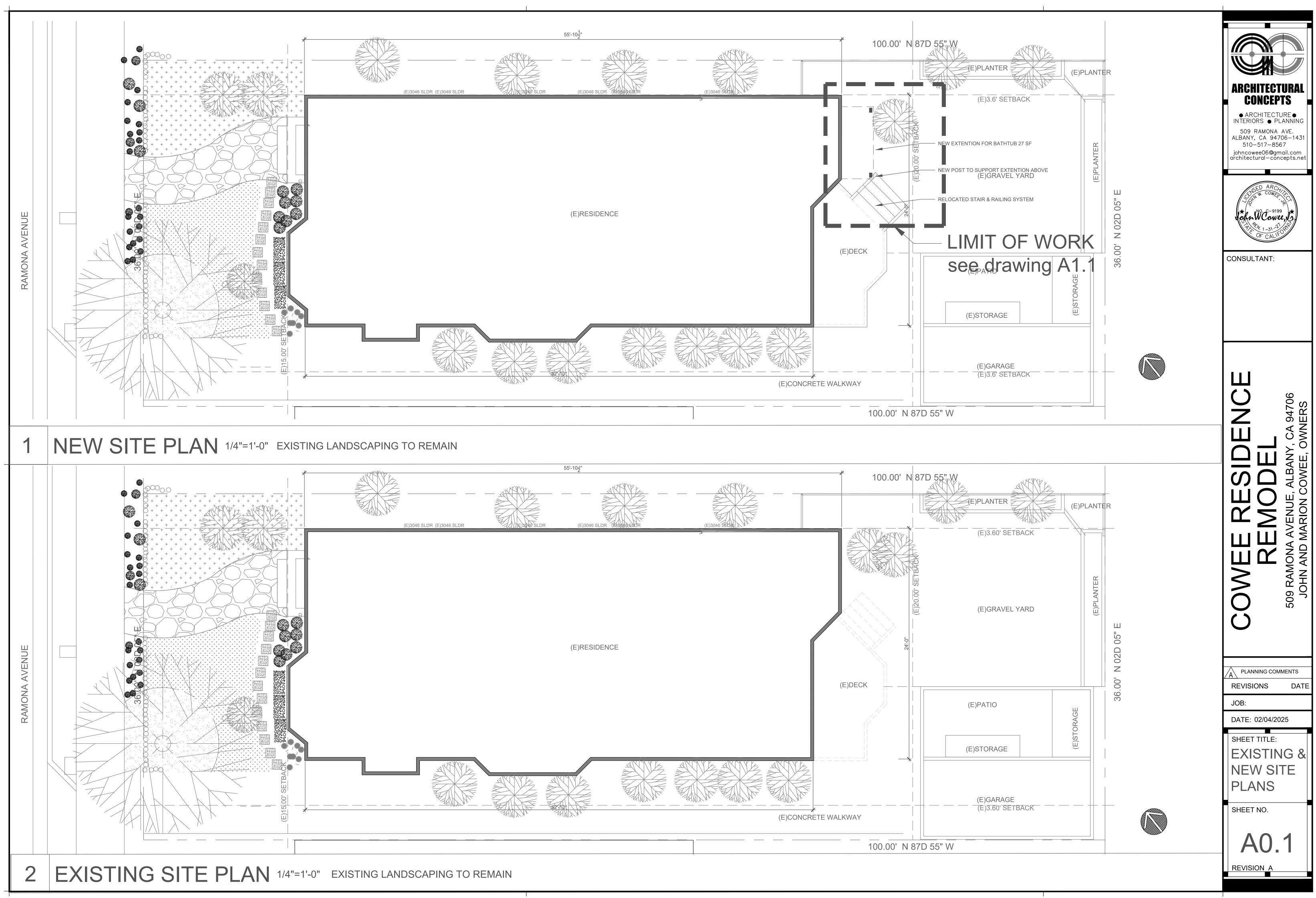
509 RAMONA AVE, ALBANY, CA 94706

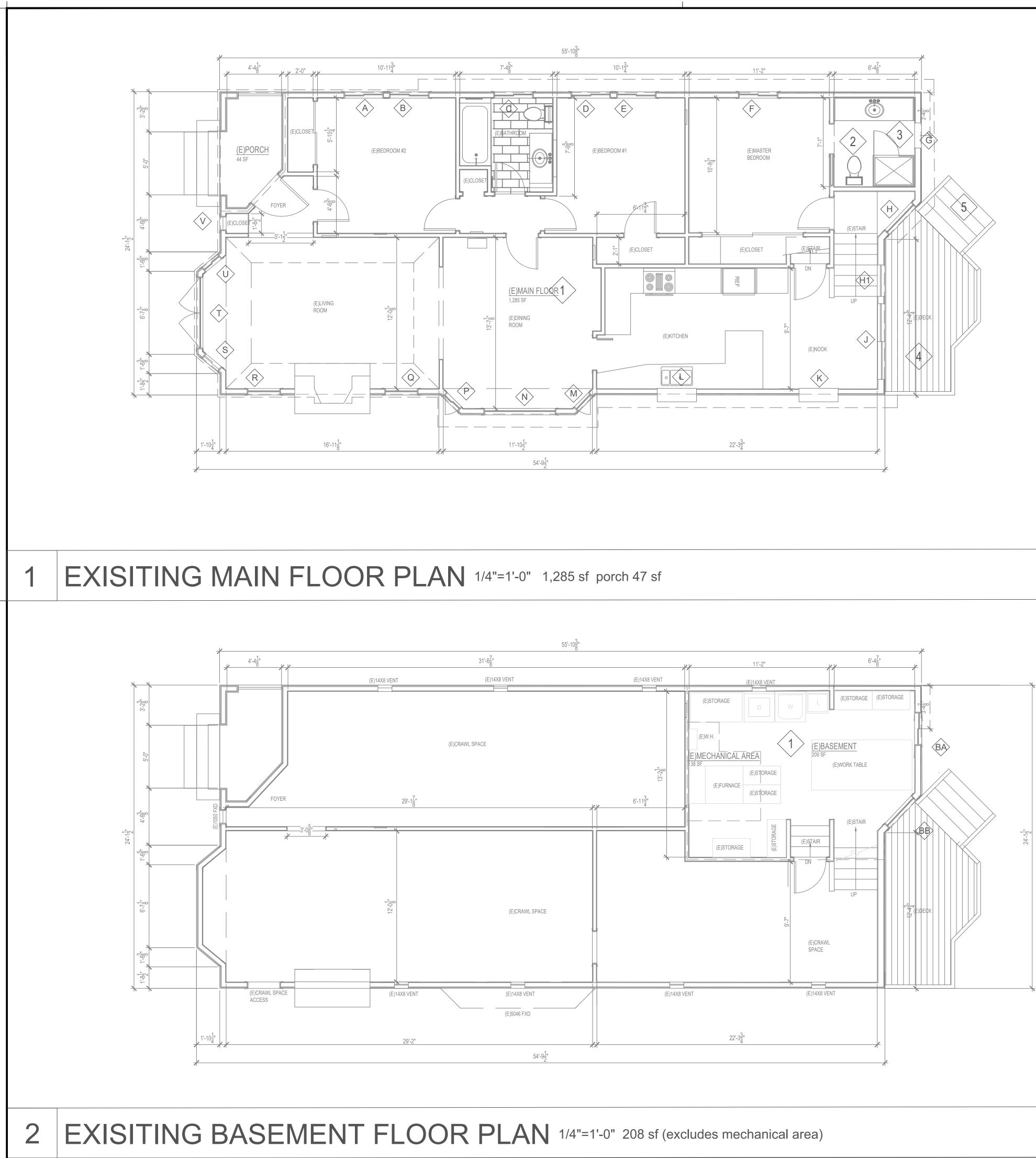
SCALE: 1"=10'

JANUARY 2025









# SHEET NOTES



 $\langle 1 \rangle$  EXISTING FLOOR AREA TO REMAIN.

2 DEMO EXISTING BATHROOM FIXTURES. SEE A1.2.



3 DEMO EXISTING FLOORING AND PREP FOR NEW WORK. SEE A1.2.

EXISTING DECKING TO BE REFURBISHED W/ SANDING AND NEW CLEAR STAIN.

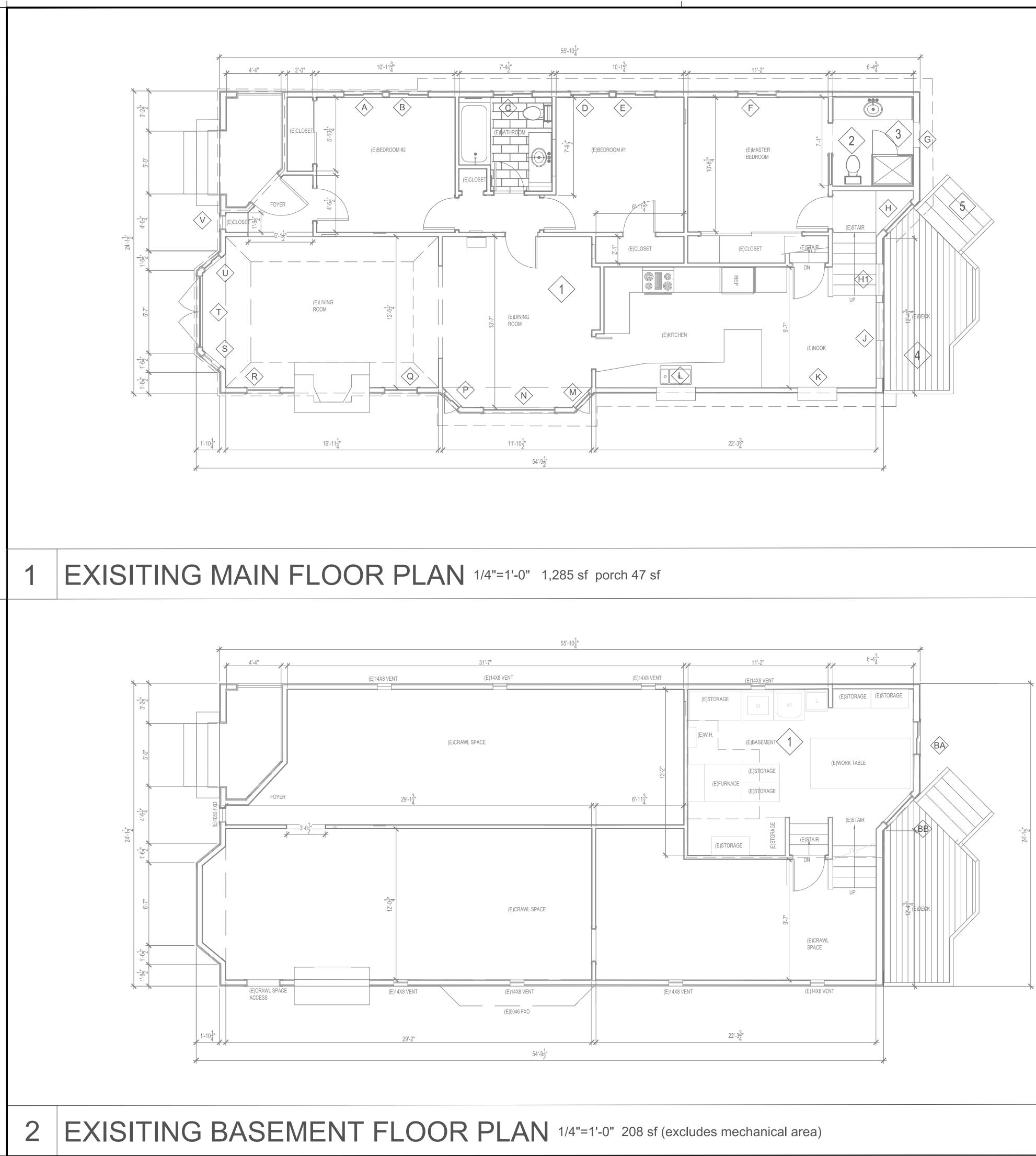


 $\langle 5 \rangle$  EXISTING STAIRS TO BE RELOCATED AND SEE A1.2

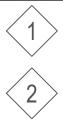
## WINDOW SCHEDULE

BASEMENT         BASEMENT           NO.         WDT.         HGT.         TYPE         THK.         GLASS         FRAME         FIN.         RATING         REMA           BA         (E)         2'0"         3'0"         SLDR         4-1/2"         1/4" TEMP.         ALUM.         CLR. ANODIZE            BB         (E)         2'0"         3'0"         SLDR         4-1/2"         1/4" TEMP.         ALUM.         CLR. ANODIZE            BB         (E)         2'0"         3'0"         SLDR         4-1/2"         1/4" TEMP.         ALUM.         CLR. ANODIZE            MAIN FLOOR FLOOR	
BA         (E)         2'-0"         3'-0"         SLDR         4-1/2"         1/4" TEMP.         ALUM.         CLR. ANODIZE            BB         (E)         2'-0"         3'-0"         SLDR         4-1/2"         1/4" TEMP.         ALUM.         CLR. ANODIZE            MAIN FLOOR FLOOR                NO.         WDT.         HGT.         TYPE         THK.         GLASS         FRAME         FIN.         RATING         REMA           A         (E)         3'-0"         4'-6"         D.H.         4-1/2"         1/4" TEMP.         VINYL         WHITE            B         (E)         3'-0"         4'-6"         D.H.         4-1/2"         1/4" TEMP.         VINYL         WHITE            C         (E)         3'-0"         4'-6"         D.H.         4-1/2"         1/4" TEMP.         VINYL         WHITE            E         (E)         3'-0"         4'-6"         D.H.         4-1/2"         1/4" TEMP.         VINYL         WHITE            F         (E)         3'-0"         4'-6"         D.H.         4-1/2"	
BB         (E)         2'-0"         3'-0"         SLDR         4-1/2"         1/4" TEMP.         ALUM.         CLR. ANODIZE            MAIN FLOOR FLOOR	ARKS
MAIN FLOOR FLOOR         TYPE         THK.         GLASS         FRAME         FIN.         RATING         REMA           A         (E)         3'-0"         4'-6"         D.H.         4-1/2"         1/4" TEMP.         VINYL         WHITE            B         (E)         3'-0"         4'-6"         D.H.         4-1/2"         1/4" TEMP.         VINYL         WHITE            C         (E)         3'-0"         4'-6"         D.H.         4-1/2"         1/4" TEMP.         VINYL         WHITE            C         (E)         3'-0"         4'-6"         D.H.         4-1/2"         1/4" TEMP.         VINYL         WHITE            D         (E)         3'-0"         4'-6"         D.H.         4-1/2"         1/4" TEMP.         VINYL         WHITE            E         (E)         3'-0"         4'-6"         D.H.         4-1/2"         1/4" TEMP.         VINYL         WHITE            F         (E)         3'-0"         4'-6"         D.H.         4-1/2"         1/4" TEMP.         VINYL         WHITE            G         (E)         2'-0"         3'-0"         <	
NO.         WDT.         HGT.         TYPE         THK.         GLASS         FRAME         FIN.         RATING         REMA           A         (E)         3'-0"         4'-6"         D.H.         4-1/2"         1/4" TEMP.         VINYL         WHITE            B         (E)         3'-0"         4'-6"         D.H.         4-1/2"         1/4" TEMP.         VINYL         WHITE            C         (E)         3'-0"         4'-6"         D.H.         4-1/2"         1/4" TEMP.         VINYL         WHITE            C         (E)         3'-0"         4'-6"         D.H.         4-1/2"         1/4" TEMP.         VINYL         WHITE            D         (E)         3'-0"         4'-6"         D.H.         4-1/2"         1/4" TEMP.         VINYL         WHITE            E         (E)         3'-0"         4'-6"         D.H.         4-1/2"         1/4" TEMP.         VINYL         WHITE            F         (E)         3'-0"         4'-6"         D.H.         4-1/2"         1/4" TEMP.         VINYL         WHITE            G         (E)         2'-0"	
NO.         WDT.         HGT.         TYPE         THK.         GLASS         FRAME         FIN.         RATING         REMA           A         (E)         3'-0"         4'-6"         D.H.         4-1/2"         1/4" TEMP.         VINYL         WHITE            B         (E)         3'-0"         4'-6"         D.H.         4-1/2"         1/4" TEMP.         VINYL         WHITE            C         (E)         3'-0"         4'-6"         D.H.         4-1/2"         1/4" TEMP.         VINYL         WHITE            C         (E)         3'-0"         4'-6"         D.H.         4-1/2"         1/4" TEMP.         VINYL         WHITE            D         (E)         3'-0"         4'-6"         D.H.         4-1/2"         1/4" TEMP.         VINYL         WHITE            E         (E)         3'-0"         4'-6"         D.H.         4-1/2"         1/4" TEMP.         VINYL         WHITE            F         (E)         3'-0"         4'-6"         D.H.         4-1/2"         1/4" TEMP.         VINYL         WHITE            G         (E)         2'-0"	
A       (E)       3'-0"       4'-6"       D.H.       4-1/2"       1/4" TEMP.       VINYL       WHITE          B       (E)       3'-0"       4'-6"       D.H.       4-1/2"       1/4" TEMP.       VINYL       WHITE          C       (E)       3'-0"       4'-6"       D.H.       4-1/2"       1/4" TEMP.       VINYL       WHITE          C       (E)       3'-0"       4'-6"       D.H.       4-1/2"       1/4" TEMP.       VINYL       WHITE          D       (E)       3'-0"       4'-6"       D.H.       4-1/2"       1/4" TEMP.       VINYL       WHITE          E       (E)       3'-0"       4'-6"       D.H.       4-1/2"       1/4" TEMP.       VINYL       WHITE          F       (E)       3'-0"       4'-6"       D.H.       4-1/2"       1/4" TEMP.       VINYL       WHITE          G       (E)       2'-0"       3'-0"       D.H.       4-1/2"       1/4" TEMP.       VINYL       WHITE          G       (E)       2'-0"       3'-0"       D.H.       4-1/2"       1/4" TEMP.       VINYL       WHITE	
B         (E)         3'-0"         4'-6"         D.H.         4-1/2"         1/4" TEMP.         VINYL         WHITE            C         (E)         3'-0"         4'-6"         D.H.         4-1/2"         1/4" TEMP.         VINYL         WHITE            D         (E)         3'-0"         4'-6"         D.H.         4-1/2"         1/4" TEMP.         VINYL         WHITE            D         (E)         3'-0"         4'-6"         D.H.         4-1/2"         1/4" TEMP.         VINYL         WHITE            E         (E)         3'-0"         4'-6"         D.H.         4-1/2"         1/4" TEMP.         VINYL         WHITE            F         (E)         3'-0"         4'-6"         D.H.         4-1/2"         1/4" TEMP.         VINYL         WHITE            G         (E)         2'-0"         3'-0"         D.H.         4-1/2"         1/4" TEMP.         VINYL         WHITE            G         (E)         2'-0"         3'-0"         D.H.         4-1/2"         1/4" TEMP.         VINYL         WHITE          DEMOLIS           G1         (N	ARKS
C         (E)         3'-0"         4'-6"         D.H.         4-1/2"         1/4" TEMP.         VINYL         WHITE            D         (E)         3'-0"         4'-6"         D.H.         4-1/2"         1/4" TEMP.         VINYL         WHITE            E         (E)         3'-0"         4'-6"         D.H.         4-1/2"         1/4" TEMP.         VINYL         WHITE            E         (E)         3'-0"         4'-6"         D.H.         4-1/2"         1/4" TEMP.         VINYL         WHITE            F         (E)         3'-0"         4'-6"         D.H.         4-1/2"         1/4" TEMP.         VINYL         WHITE            G         (E)         2'-0"         3'-0"         D.H.         4-1/2"         1/4" TEMP.         VINYL         WHITE            G         (E)         2'-0"         3'-0"         D.H.         4-1/2"         1/4" TEMP.         VINYL         WHITE          DEMOLK           G1         (N)         2'-6"         4'-6"         D.H.         4-1/2"         1/4" TEMP.         FIBREX         WHITE         ADDITIO           G2 <t< td=""><td></td></t<>	
D         (E)         3'-0"         4'-6"         D.H.         4-1/2"         1/4" TEMP.         VINYL         WHITE            E         (E)         3'-0"         4'-6"         D.H.         4-1/2"         1/4" TEMP.         VINYL         WHITE            F         (E)         3'-0"         4'-6"         D.H.         4-1/2"         1/4" TEMP.         VINYL         WHITE            F         (E)         3'-0"         4'-6"         D.H.         4-1/2"         1/4" TEMP.         VINYL         WHITE            G         (E)         2'-0"         3'-0"         D.H.         4-1/2"         1/4" TEMP.         VINYL         WHITE            G         (E)         2'-0"         3'-0"         D.H.         4-1/2"         1/4" TEMP.         VINYL         WHITE            G1         (N)         2'-6"         4'-6"         D.H.         4-1/2"         1/4" TEMP.         FIBREX         WHITE          ADDITIO           G2         (N)         6'-0"         4'-6"         S.H         4-1/2"         1/4" TEMP.         FIBREX         WHITE          ADDITIO	
E         (E)         3'-0"         4'-6"         D.H.         4-1/2"         1/4" TEMP.         VINYL         WHITE            F         (E)         3'-0"         4'-6"         D.H.         4-1/2"         1/4" TEMP.         VINYL         WHITE            G         (E)         2'-0"         3'-0"         D.H.         4-1/2"         1/4" TEMP.         VINYL         WHITE            G         (E)         2'-0"         3'-0"         D.H.         4-1/2"         1/4" TEMP.         VINYL         WHITE            G1         (N)         2'-6"         4'-6"         D.H.         4-1/2"         1/4" TEMP.         FIBREX         WHITE          DEMOLIS           G31         (N)         2'-6"         4'-6"         PICTURE         4-1/2"         1/4" TEMP.         FIBREX         WHITE          ADDITIO           G3         (N)         2'-7"         4'-6"         S.H         4-1/2"         1/4" TEMP.         FIBREX         WHITE          ADDITIO	
F         (E)         3'-0"         4'-6"         D.H.         4-1/2"         1/4" TEMP.         VINYL         WHITE            G         (E)         2'-0"         3'-0"         D.H.         4-1/2"         1/4" TEMP.         VINYL         WHITE          DEMOLIS           G1         (N)         2'-6"         4'-6"         D.H.         4-1/2"         1/4" TEMP.         VINYL         WHITE          DEMOLIS           G1         (N)         2'-6"         4'-6"         D.H.         4-1/2"         1/4" TEMP.         FIBREX         WHITE          ADDITIO           G2         (N)         6'-0"         4'-6"         PICTURE         4-1/2"         1/4" TEMP.         FIBREX         WHITE          ADDITIO           G3         (N)         2'-7"         4'-6"         S.H.         4-1/2"         1/4" TEMP.         FIBREX         WHITE          ADDITIO	
G         (E)         2'-0"         3'-0"         D.H.         4-1/2"         1/4" TEMP.         VINYL         WHITE          DEMOLIS           G1         (N)         2'-6"         4'-6"         D.H.         4-1/2"         1/4" TEMP.         FIBREX         WHITE          ADDITIO           G2         (N)         6'-0"         4'-6"         PICTURE         4-1/2"         1/4" TEMP.         FIBREX         WHITE          ADDITIO           G3         (N)         2'-7"         4'-6"         S.H.         4-1/2"         1/4" TEMP.         FIBREX         WHITE          ADDITIO	
G1         (N)         2'-6"         4'-6"         D.H.         4-1/2"         1/4" TEMP         FIBREX         WHITE         ADDITIO           G2         (N)         6'-0"         4'-6"         PICTURE         4-1/2"         1/4" TEMP         FIBREX         WHITE          ADDITIO           G3         (N)         2'-7"         4'-6"         S.H         4-1/2"         1/4" TEMP         FIBREX         WHITE          ADDITIO	
G2         (N)         6-0"         4'-6"         PICTURE         4-1/2"         1/4" TEMP         FIBREX         WHITE         ADDITION           G3         (N)         -2'-7"         4'-6"         S.H         4-1/2"         1/4" TEMP         FIBREX         WHITE         ADDITION	SH
G3 (N) 2"-7" 4"-6" S.H. 4-1/2" 1/4" TEMP. FIBREX WHITE ADDITIO	N
	N
H (E) 3'-0" 3'-0" FIXED 4-1/2" 1/4" TEMP. VINYL CLR. ANODIZE	N
H1 (E) 2'-6" 3'-0" FIXED TRAP 4-1/2" 1/4" TEMP. VINYL CLR. ANODIZE TRAPEX	OID
J (E) 6'-0" 6'-8" SLDR 4-1/2" 1/4" TEMP. VINYL CLR. ANODIZE	
K (E) 4'-0" 3'-6" GARDEN 4-1/2" 1/4" TEMP. MTL CLR. ANODIZE	
L (E) 4'-0" 3'-6" GARDEN 4-1/2" 1/4" TEMP. HYL CLR. ANODIZE	
M (E) 2'-4" 4'-6" CASEMENT 4-1/2" 1/4" TEMP. VINYL CLR. ANODIZE	
N (E) 5'-0" 4'-6" PICTURE 4-1/2" 1/4" TEMP. VINYL CLR. ANODIZE	
P (E) 2'-4" 4'-6" CASEMENT 4-3/4" 1/4" WIRED. VINYL CLR. ANODIZE	
Q (E) 2'-4" 1'-9" PICTURE 4-3/4" 1/4" WIRED. WOOD CLR. ANODIZE	
R (E) 2'-4" 1'-9" PICTURE 4-3/4" 1/4" WIRED. WOOD CLR. ANODIZE	
S (E) 2'-0" 5'-0" CASEMENT 4-3/4" 1/4" WIRED. WOOD CLR. ANODIZE	
T (E) 6'-0" 5'-0" CASEMENT 4-3/4" 1/4" WIRED. WOOE CLR. ANODIZE	
U (E) 2'-0" 5'-0" CASEMENT 4-3/4" 1/4" WIRED. WOOD CLR. ANODIZE	
V (E) 1'-0" 3'-0" FIXED 4-3/4" 1/4" WIRED. WOOD CLR. ANODIZE	





# SHEET NOTES



 $\langle 1 \rangle$  EXISTING FLOOR AREA TO REMAIN.

2 DEMO EXISTING BATHROOM FIXTURES. SEE A1.2.



3 DEMO EXISTING FLOORING AND PREP FOR NEW WORK. SEE A1.2.

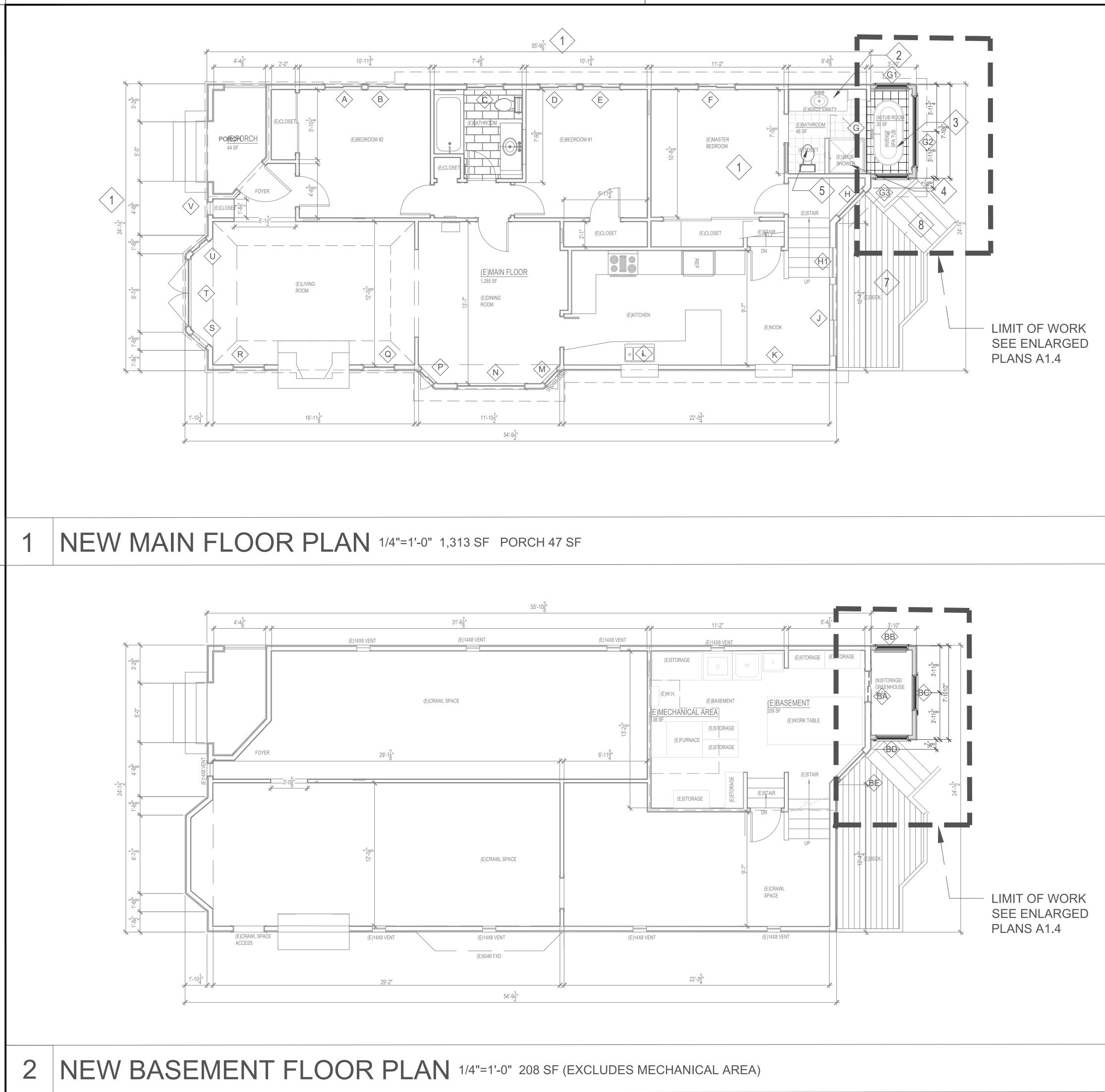
EXISTING DECKING TO BE REPLACED WITH "TREX" OR EQUAL.

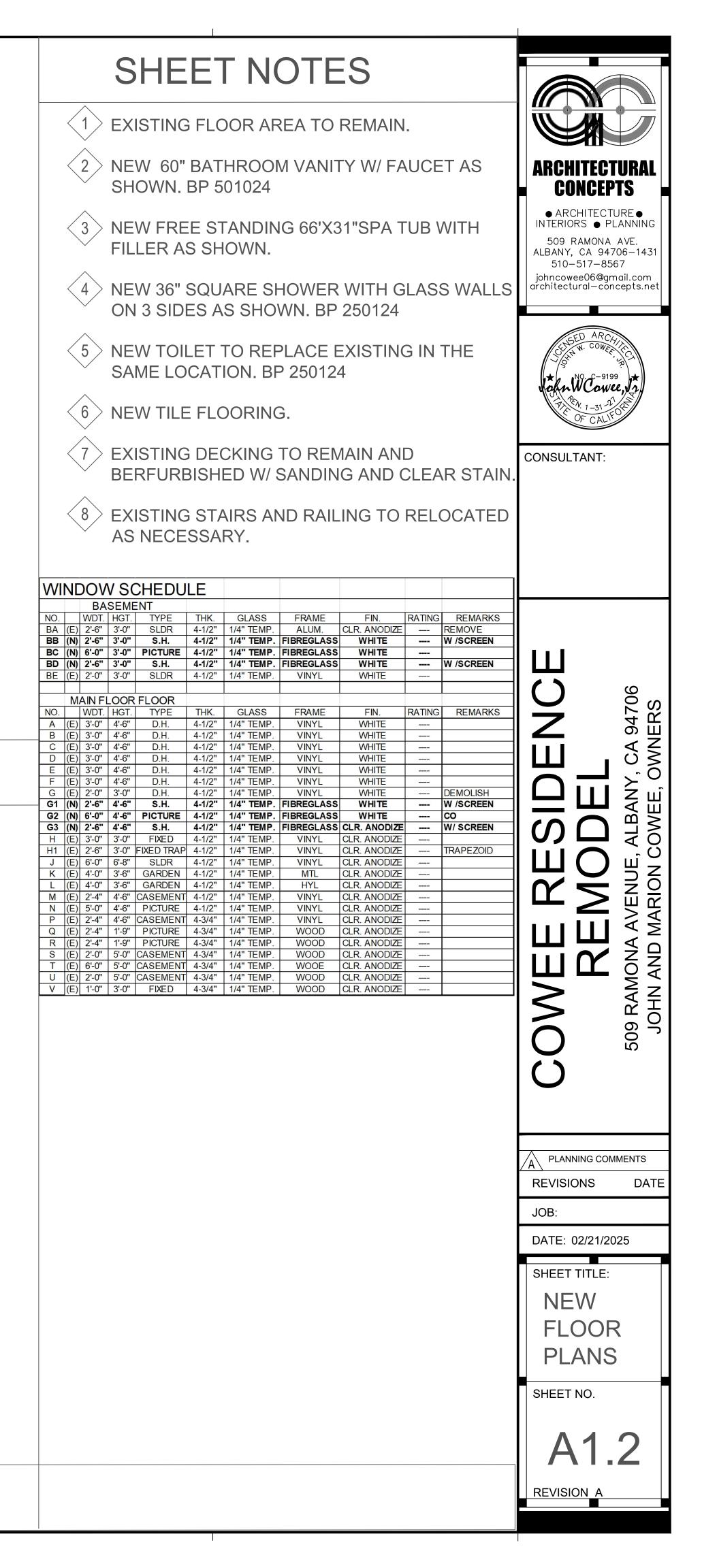
 $\langle 5 \rangle$  EXISTING STAIRS TO BE REMOVED AND REPLACED WITH NEW. SEE A1.2

## WINDOW SCHEDULE

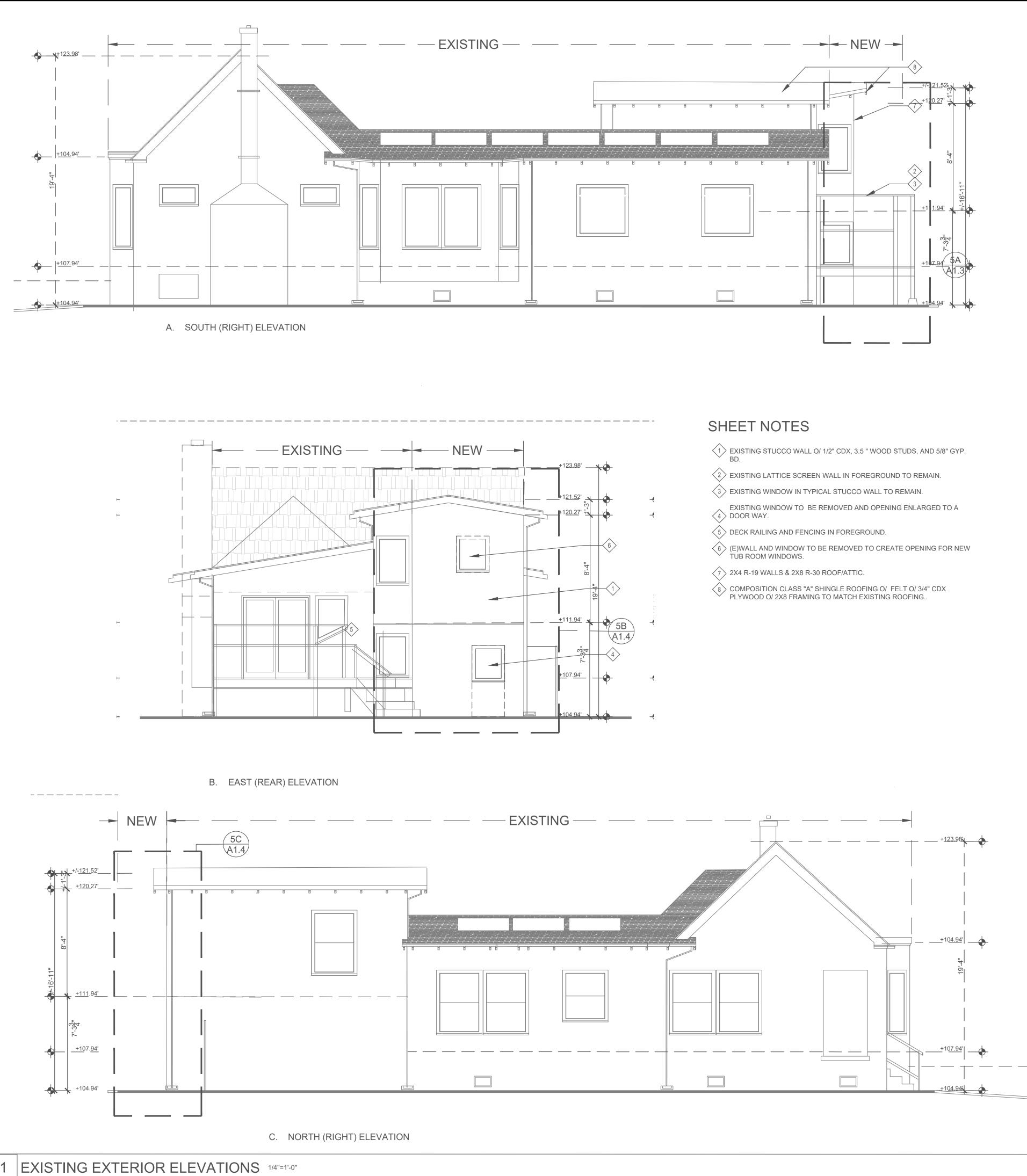
		BA	SEME	ENT						
NO.		WDT.	HGT.	TYPE	THK.	GLASS	FRAME	FIN.	RATING	REMARKS
BA	(E)	2'-0"	3'-0"	SLDR	4-1/2"	1/4" TEMP.	ALUM.	CLR. ANODIZE		
BB	(E)	2'-0"	3'-0"	SLDR	4-1/2"	1/4" TEMP.	ALUM.	CLR. ANODIZE		
	M	AIN FL	OOR	FLOOR						
NO.		WDT.	HGT.	TYPE	THK.	GLASS	FRAME	FIN.	RATING	REMARKS
Α	(E)	3'-0"	4'-6"	D.H.	4-1/2"	1/4" TEMP.	VINYL	WHITE		
В	(E)	3'-0"	4'-6"	D.H.	4-1/2"	1/4" TEMP.	VINYL	WHITE		
С	(E)	3'-0"	4'-6"	D.H.	4-1/2"	1/4" TEMP.	VINYL	WHITE		
D	(E)	3'-0"	4'-6"	D.H.	4-1/2"	1/4" TEMP.	VINYL	WHITE		
Е	(E)	3'-0"	4'-6"	D.H.	4-1/2"	1/4" TEMP.	VINYL	WHITE		
F	(E)	3'-0"	4'-6"	D.H.	4-1/2"	1/4" TEMP.	VINYL	WHITE		
G	(E)	2'-0"	3'-0"	D.H.	4-1/2"	1/4" TEMP.	VINYL	WHITE		DEMOLISH
G1	(N)	2'-6"	4'-6"	D.H.	4-1/2"	1/4" IEMP	FIBREX	WHITE		ADDITION
G2	(N)	6'-0"	4'-6"	PICTURE	4-1/2"	1/4" TEMP	FIBREX	WHITE	<del></del>	ADDITION
G3	(N)	2"-7"	4'-6"	S.H.	4-1/2"	1/4" TEMP	FIBREX	WHITE		ADDITION
H	(E)	3'-0"	3'-0"	FIXED	4-1/2"	1/4" TEMP.	VINYL	CLR. ANODIZE		
H1	(E)	2'-6"	3'-0"	FIXED TRAP	4-1/2"	1/4" TEMP.	VINYL	CLR. ANODIZE		TRAPEXOID
J	(E)	6'-0"	6'-8"	SLDR	4-1/2"	1/4" TEMP.	VINYL	CLR. ANODIZE		
K	(E)	4'-0"	3'-6"	GARDEN	4-1/2"	1/4" TEMP.	MTL	CLR. ANODIZE		
L	<b>(E)</b>	4'-0"	3'-6"	GARDEN	4-1/2"	1/4" TEMP.	HYL	CLR. ANODIZE		
Μ	(E)	2'-4"	4'-6"	CASEMENT	4-1/2"	1/4" TEMP.	VINYL	CLR. ANODIZE		
Ν	(E)	5'-0"	4'-6"	PICTURE	4-1/2"	1/4" TEMP.	VINYL	CLR. ANODIZE		
Р	(E)	2'-4"	4'-6"	CASEMENT	4-3/4"	1/4" WIRED.	VINYL	CLR. ANODIZE		
Q	(E)	2'-4"	1'-9"	PICTURE	4-3/4"	1/4" WIRED.	WOOD	CLR. ANODIZE		
R	(E)	2'-4"	1'-9"	PICTURE	4-3/4"	1/4" WIRED.	WOOD	CLR. ANODIZE		
S	(E)	2'-0"	5'-0"	CASEMENT	4-3/4"	1/4" WIRED.	WOOD	CLR. ANODIZE		
Т	(E)	6'-0"	<mark>5'-0"</mark>	CASEMENT	4-3/4"	1/4" WIRED.	WOOE	CLR. ANODIZE		
U	(E)	2'-0"	<mark>5'-0"</mark>	CASEMENT	4-3/4"	1/4" WIRED.	WOOD	CLR. ANODIZE		
V	(E)	1'-0"	3'-0"	FIXED	4-3/4"	1/4" WIRED.	WOOD	CLR. ANODIZE		





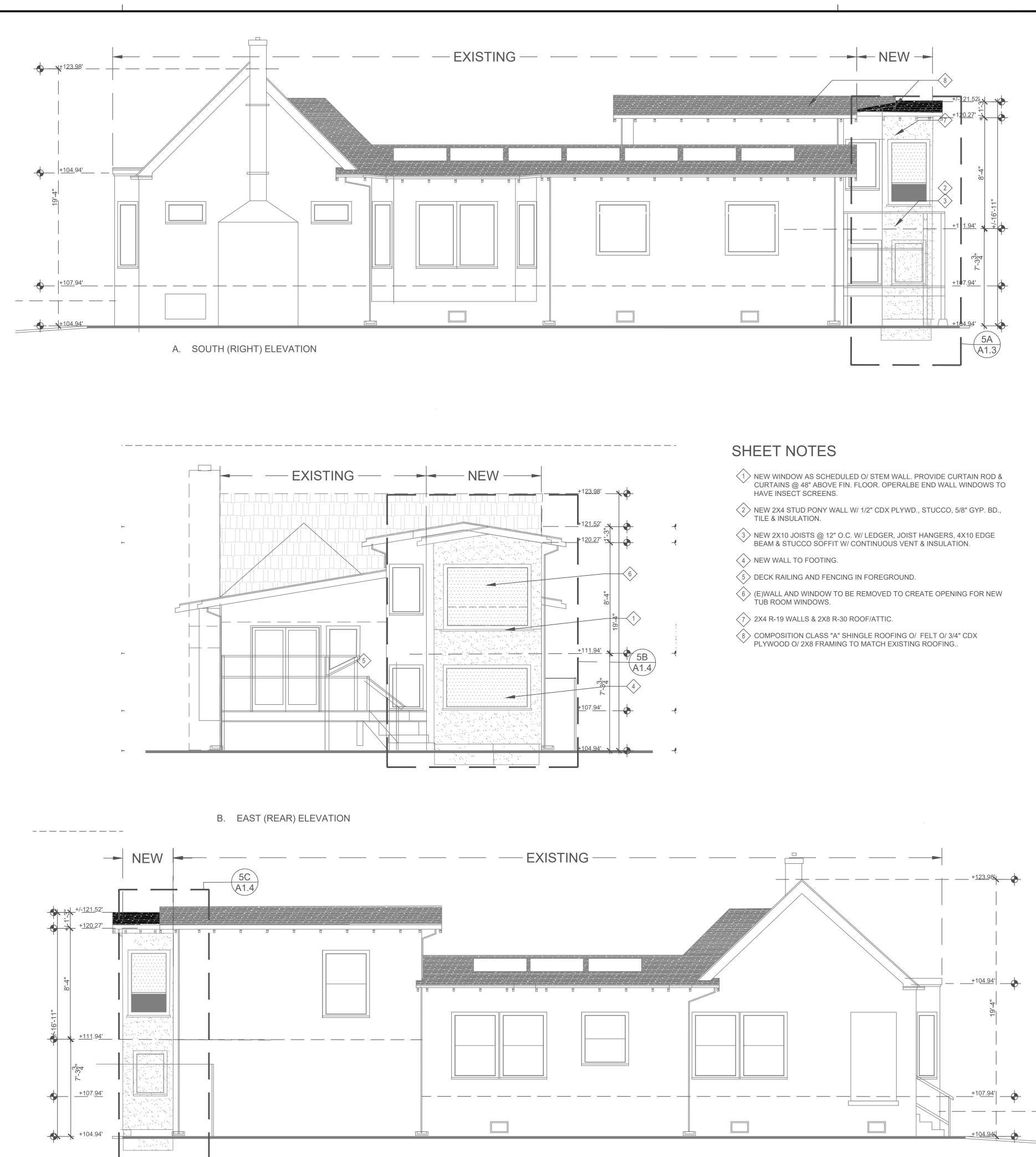


	<image/>
6 SOUTH (RIGHT) ELEVATION	3 VIEW NORTHEAST FROM BATHRM
	With the second seco
7 EAST (REAR) ELEVATION	4 VIEW EAST FROM BATHRM
<image/>	NOTE: TREES AND SHRUBS         IMIT VISIBLE WINDOWS FROM         NEIGHBORS A GREAT
8 NORTH (LEFT) ELEVATION	DISTANCE AWAY55VIEW SOUTHEAST FROM BATHRM





<image/>	<image/>
6 SOUTH (RIGHT) ELEVATION	3 VIEW NORTHEAST FROM BATHRM
	Image: Note: Trees and shrubs from shrubs from shrubs from shrubs from shrubs from shrubs reghbors no different then across the street
7 EAST (REAR) ELEVATION	4 VIEW EAST FROM BATHRM
	NOTE: TREES AND SHRUBS         LIMIT VISIBLE WINDOWS FROM         NEIGHBORS A GREAT         DISTANCE AWAY
8 NORTH (LEFT) ELEVATION	5 VIEW SOUTHEAST FROM BATHRM



C. NORTH (RIGHT) ELEVATION



