

CHUN XIONG LUO'S RESIDENCE

5539 36TH AVE, SACRAMENTO, CA 95824



BAJ
GRAPHIC DESIGN
9743 WHITE PINE WAY, ELK GROVE, CA 95624
Email: helennguyen3689@gmail.com
Tel: (916) 526-5881 & (408) 876-8402

Date: APRIL 2025

Scale: AS SHOWN

Drawn: LUYEN HONG NGUYEN

Signed: *Thuy*

STAMPED FROM CITY

PROJECT DATA - SITE PLAN
CHUN XIONG LUO'S RESIDENCE
Tel: (916) 396-5298 &
E-mail: luxong@gmail.com

REVISION	DATE	BY

SHEET NO:

A-1

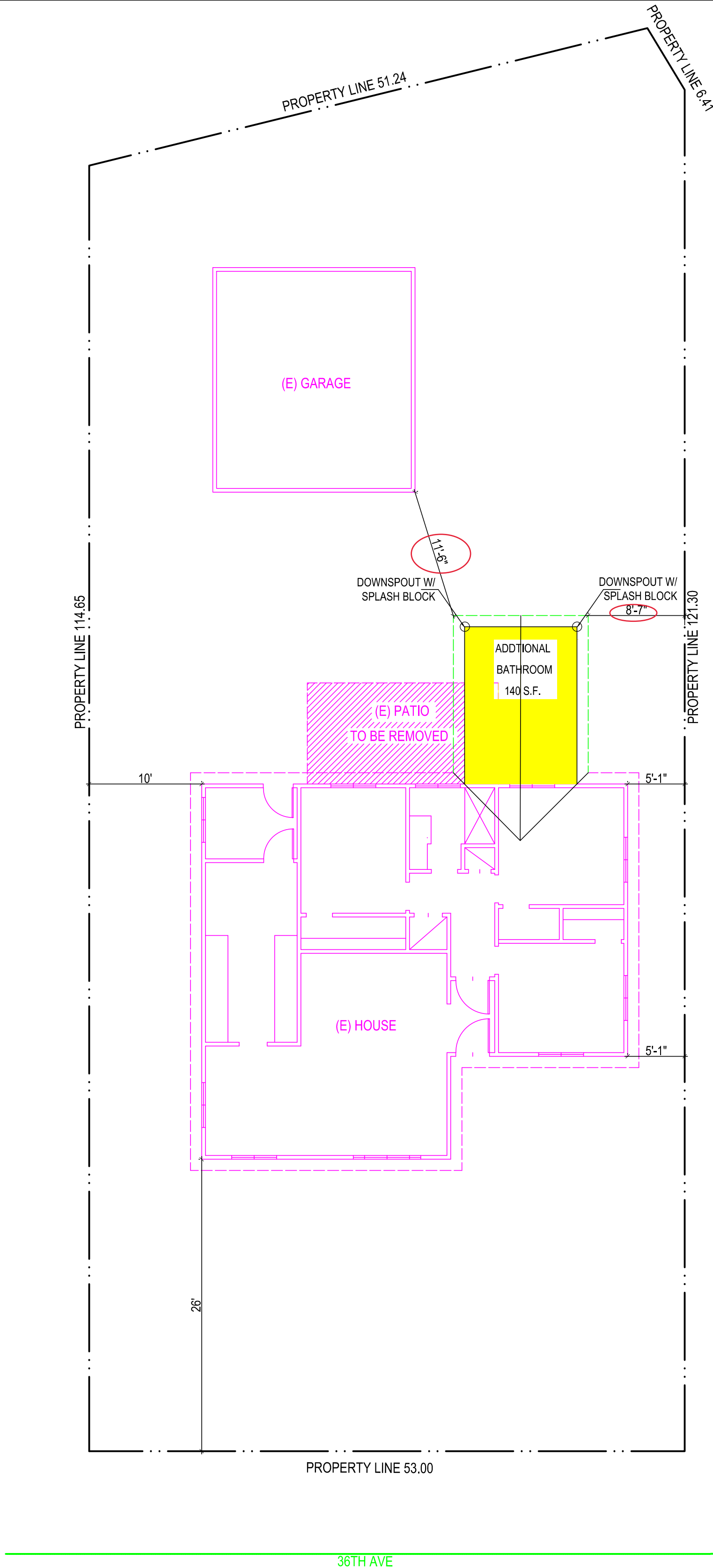
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5539 36TH AVE

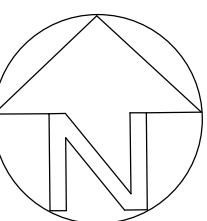
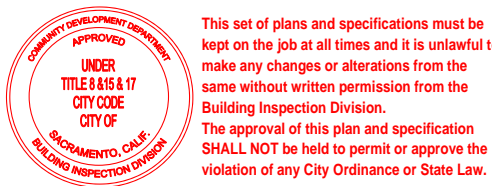
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STRUCTURAL GENERAL NOTES

- DESIGNATE ONE AREA OF THE CONSTRUCTION SITE FOR THE STAGING OF VEHICLES, MATERIAL DELIVERIES, AUTOS AND EQUIPMENT. CONSTRUCTION RELATED ITEMS STORED ON-SITE SHALL BE CONFINED TO THIS AREA. REFUELING AND ROUTINE VEHICLE AND EQUIPMENT MAINTENANCE SHALL BE PERFORMED IN THE DESIGNATED AREA, THE DESIGNATED AREA SHALL BE WELL AWAY FROM STREAMS OR OTHER SURFACE STORM DRAINAGE SYSTEMS, SO AS TO AVOID POTENTIAL CONTAMINATION OF THE RUN-OFF. THE LOCATION SHALL BE COORDINATED WITH THE BUILDING OWNER.
- EQUIPMENT UTILIZED ON THE PROJECT SHALL BE WELL MAINTAINED AND IN GOOD WORKING ORDER. INSPECT ALL EQUIPMENT REGULARLY, WITH ANY MAJOR REPAIRS NECESSITATED PERFORMED OFF-SITE. EQUIPMENT SHALL NOT REMAIN STORED ON-SITE FOR PERIODS LONGER THAN THAT NEEDED FOR THE INTENDED FUNCTION, BASED UPON THE WORK BEING PERFORMED. WASHING OF EQUIPMENT SHALL NOT BE PERFORMED ON-SITE.
- MAINTAIN A DUMPSITE FOR CONSTRUCTION DEBRIS. PLACE DUMPSITE UNDER A ROOF OR COVERED BY TARP SECURED AROUND THE OUTSIDE OF THE DUMPSITE. DO NOT CLEAN OUT A DUMPSITE BY HOISING DOWN ONTO THE CONSTRUCTION SITE.
- MAINTAIN PORTABLE TOILETS ON-SITE FOR THE USE OF THE CONSTRUCTION PERSONNEL. CHECK FOR LEAKS TO ENSURE THAT THEY ARE IN GOOD WORKING ORDER.
- SCHEDULE EXCAVATION AND GRADING ACTIVITIES FOR DRY WEATHER PERIODS. COVER EXPOSED PILES OF SOIL OR STOCKPILES OF CONSTRUCTION MATERIALS WITH PLASTIC SHEETING OR TEMPORARY ROOFS AND PROTECT FROM WIND. SWEEP OR CLEAN DUST AND DEBRIS ACCUMULATED ON PAVING OR SIMILAR SURFACES THAT DRAIN INTO STORM WATER SYSTEMS PRIOR TO THE ONSET OF INCLEMENT WEATHER. DO NOT HOSE-DOWN SUCH SURFACES WHERE MATERIALS HAVE SPILLED.
- AVOID CREATING EXCESSIVE AMOUNTS OF DUST WHEN BREAKING AND REMOVING ASPHALT OR CONCRETE PAVING. SHOVEL OR VACUUM SAW-CUT SLURRY AND REMOVE FROM SITE. COVER OR BARRICADE STORM DRAIN INLETS DURING SAW-CUTTING AS NECESSARY. DO NOT HOSE-DOWN STREETS TO CLEAN UP DEBRIS.
- AVOID PAVING AND SEAL COATING IN WET WEATHER, OR IF RAIN IS IMMINENT BEFORE FRESH PAVEMENT WILL HAVE TIME TO CURE. COVER AND SEAL CATCH BASINS AND MANHOLES WHEN APPLYING SLURRY OR SEAL COATS.
- WHEN CLEANING UP AFTER CONCRETE PAVING WORK, WASH FINES AND EXCESS MATERIALS INTO DIRT AREAS. WASH OUT CONCRETE MIXERS ONLY IN DESIGNATED AREAS WHERE WATER WILL FLOW INTO CONTAINMENT PONDS OR ONTO DIRT AREAS. DISPOSAL OF WASHOUT INTO THE STREET OR STORM DRAINAGE SYSTEM IS PROHIBITED BY LAW.
- MAKE EVERY EFFORT TO RECYCLE WASTE PRODUCTS WHERE POSSIBLE. TYPICALLY, SOLVENTS, WATER BASED PAINTS, VEHICLE FLUIDS, BROKEN ASPHALT AND CONCRETE. WOOD AND CLEARED VEGETATION CAN BE RECYCLED. THOSE MATERIALS WHICH ARE NOT RECYCLABLE SHALL BE DISPOSED OF AT AN APPROPRIATE LANDFILL SITE OR TREATED AS HAZARDOUS WASTE AS REQUIRED. IN NO CASE SHALL WASTE PRODUCTS BE BURIED ON-SITE.
- KEEP POLLUTANTS OFF OF EXPOSED SURFACES. CLEANUP SPILLED MATERIALS IMMEDIATELY. CLEAN UP SPILLS ON DIRT AREAS BY REMOVING AND PROPERLY DISPOSING OF CONTAMINATED SOIL. SURFACES WHERE MATERIALS HAVE BEEN SPILLED SHALL NOT BE HOSED-DOWN, USE DRY CLEANUP METHODS WHENEVER POSSIBLE. WHERE WATER MUST BE USED, USE IT SPARINGLY. SIGNIFICANT HAZARDOUS SPILLS SHALL BE REPORTED TO THE APPROPRIATE SPILL AGENCY IMMEDIATELY AND/OR DIAL 911 AS NECESSARY.
- CONSTRUCTION SITE SHALL COMPLY WITH APPLICABLE PROVISIONS OF THE CFC CHAPTER 33 AND COUNTY STANDARD DETAIL AND SPECIFICATION SI-7
- ALL CONSTRUCTION MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE CITY OF SACRAMENTO STANDARD SPECIFICATION, DATED JUNE 2007.
 - THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXACT LOCATION OF ALL EXISTING UTILITIES AND FOR THE PROTECTION OF AND REPAIR OF DAMAGE TO THEM. CONTACT UNDERGROUND SERVICE ALERT 1-800-642-2444, 48 HOURS BEFORE WORK IS TO BEGIN.
 - THE CONTRACTOR SHALL PROVIDE EROSION, SEDIMENT, AND POLLUTION CONTROL BEST MANAGEMENT PRACTICES (BMPs) WHEN AND WHERE APPLICABLE PER THE CITY OF SACRAMENTO STANDARD SPECIFICATIONS SECTION 16-3.
 - DIRECT ALL NEW DOWNSPOUTS ONTO NATURAL GROUND OR LANDSCAPED AREAS WHERE FEASIBLE.
 - FLOOD ZONE X PANEL 0302
 - NO PERMANENT STRUCTURE (INCLUDING WITHOUT LIMITATION GARAGES, PATIOS, CONCRETE SLABS, TOOL SHED, ROOF OVERHANGS AND SIMILAR STRUCTURES) SHALL BE CONSTRUCTED ON TOP OF WATER, SEWER OR DRAINAGE PIPELINES OR ANYWHERE WITHIN THE ASSOCIATED UTILITY EASEMENTS. (ORD. 2001-033)
 - CONTRACTOR IS RESPONSIBLE FOR DETERMINING EXACT LOCATIONS AND PROTECTION OF ALL EXISTING MAINS AND LINES. YOU CAN CONTACT CITY CREWS AT 311 TO LOCATE SERVICES. IT IS THE RESPONSIBILITY OF THE PROPERTY OWNER TO DETERMINE THE LOCATION OF ANY EASEMENTS OF RECORD ENCUMBERED WITHIN THE PROPERTY



PLACE STRAW ROLLS AROUND CONSTRUCTION AREA, TYP. CONTRACTOR SHALL GRADE LOT TO PREVENT DRAINAGE FROM CROSSING PROPERTY LINES, TYP.



SITE PLAN
SCALE: 1 / 8" = 1'-0"

PROJECT DATA

OWNER: CHUN XIONG LUO
EXISTING USE: SINGLE FAMILY RESIDENCE
LOCATION: 5539 36TH AVE, SACRAMENTO, CA 95824
APN: 027-0172-005-0000
ZONING: R-1 - SINGLE FAMILY RESIDENTIAL 1-2 UNITS / LOT
LOT GROSS SIZE: 6,989 S.F.
OCCUPANCY GROUP: R-3/U
TYPE OF CONSTRUCTION: V-B
FIRE SPRINKLER: NONE
YEAR BUILT: 1947
ALLOWABLE FLOOR AREA: 3,920 S.F.
LOT AVERAGE SLOPE: (FLAT)
FLOOR AREA: EXISTING PROPOSAL TOTAL
DWELLING: 1,100 S.F. 140 S.F. 1,240 S.F.
GARAGE: 360 S.F. 360 S.F.
TOTAL FOOTPRINT: 1,240 S.F.
FAR: 17.8%

SCOPE OF WORK

- ADDITIONAL BATHROOM AT THE BACK 140 S.F.
- REMOVE EXISTING PATIO.

Testing Doc

City of Sacramento, CDD
Planning Approved
No Plan Check Required

Planner: **Pamela Morgan**
Date: **Apr 07, 2025**

STRUCTURAL GENERAL NOTES

G. NAIL SCHEDULE

- WOOD MEMBERS SHALL BE CONNECTED WITH NAILING INDICATED IN TABLE 2304.9.1 OF 2022 CBC UNLESS GREATER SIZES AND NUMBER OF NAILS ARE SHOWN OR NOTED ON DRAWINGS; NAILS EXPOSED TO WEATHER SHALL BE GALVANIZED; NAILS SHALL BE COMMON WIRE NAILS; HOLES FOR NAILS SHALL BE PROVIDED WHERE THE WOOD TENDS TO SPLIT; SPLIT WOOD MEMBERS SHOULD BE REPLACED AND REMOVED FROM THE JOB PROMPTLY. SHORT PLYWOOD NAILS FOR EQUIVALENT SHEAR VALUE MAY BE USED. SEE PLANS FOR NAIL SPACING. NAIL ROOF SHEATHING 8d @ 6" O.C. AT SUPPORTED EDGES. 8d @ 10 INCHES O.C. AT INTERMEDIATE SUPPORTS. FLOOR SHEATHING 8d @ 6" O.C. AT BOUNDARIES AND PANEL EDGES AND 8d @ 10" O.C. AT INTERMEDIATE SUPPORTS. PLYWOOD WALL SHEATHING SHALL BE NAILED PER SHEAR WALL SCHEDULE AT SHEAR WALLS, AND AT A MINIMUM OF 8d @ 6" O.C. ALL OTHER EDGES.
- AT PRESSURE TREATED LUMBER USE HOT-DIPPED GALVANIZED, STAINLESS STEEL, SILICON BRONZE, OR COPPER.

G. FIRE SPRINKLES

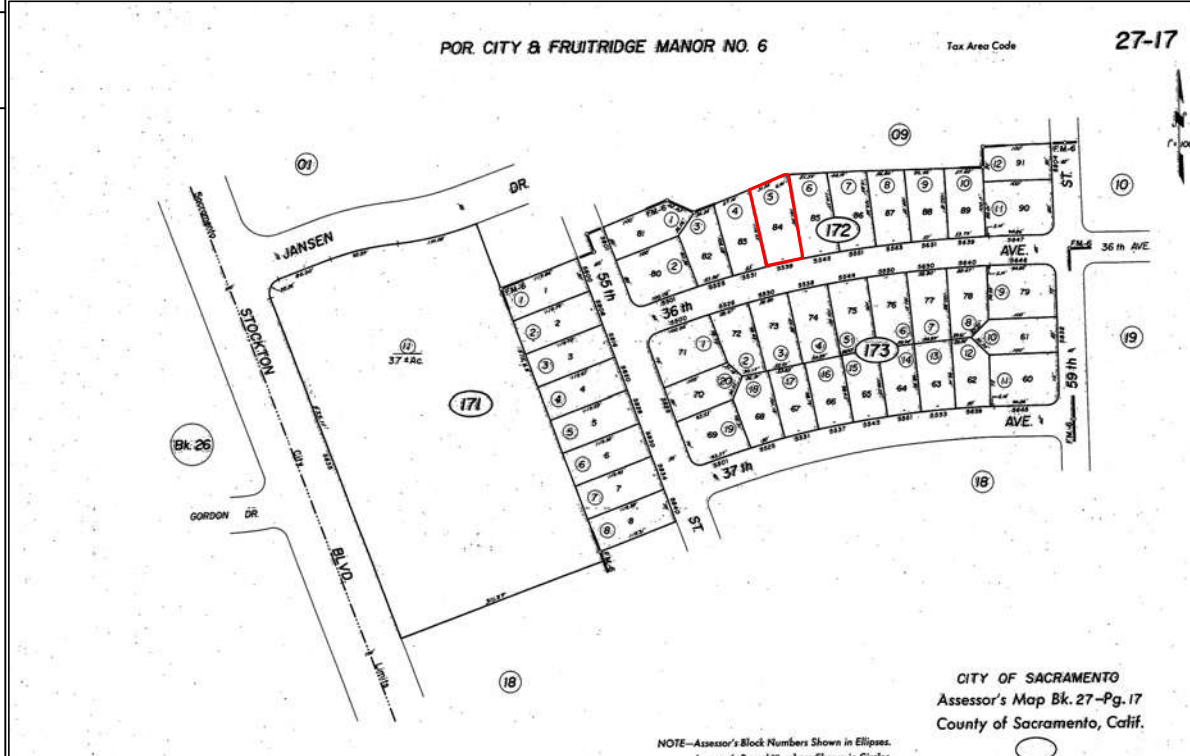
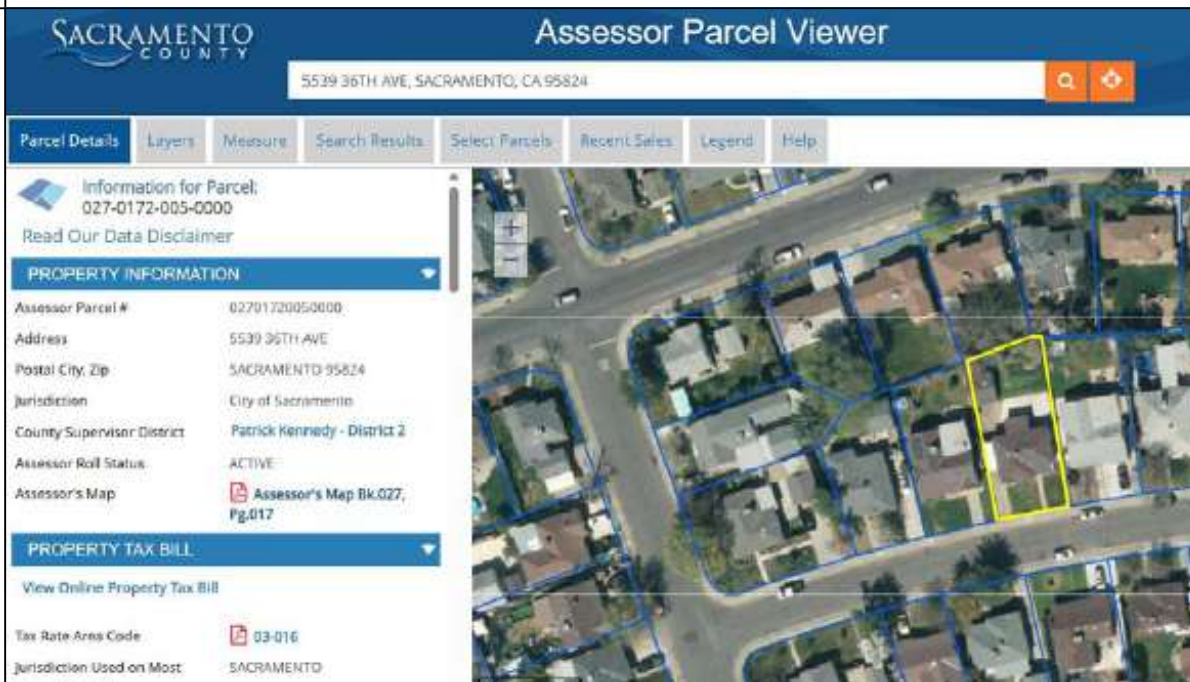
ALL CONSTRUCTION SITES MUST COMPLY WITH APPLICABLE PROVISION OFF THE CFC CHAPTER 14 AND OUR STANDARD DETAIL AND SPECIFICATION SI-7

APPLICABLE CODES

CODE COMPLIANCE

ALL CONSTRUCTION SHALL CONFORM TO ALL GOVERNING LAWS, CODES AND ORDINANCES INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
-2022 CALIFORNIA BUILDING CODES: CBC, CMC, CPC, CFC & CEC, CRC.
-2022 CA ENERGY CODE
-CITY OF SACRAMENTO MUNICIPAL CODE
-ALL LOCAL ORDINANCES

VICINITY MAP



SHEET

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NOTES

- a) Please note that a Building Permit cannot be issued until all clearances by all reviewing departments (listed above) have been approved on the project. Check the status of your permit by visiting www.sjpermits.org and contact the individual departments directly with any questions.
- b) Revised plans, when required, must be clouded with delta number with a revision mark at each location where revision has occurred and be noted that additional comments may be triggered once revised plan are reviewed.
- c) When comments cite a section of code and require a revision, correction or amendment to plans, required information shall be specifically & directly provided on plans. Generic references to code section(s) is not acceptable.

FLOOR PLAN NOTES:									
<div>1. ALL CONCRETE TO BE POURED ON UNDISTURBED SOIL.</div> <div>2. ALL LUMBER IN CONTACT WITH CONCRETE SHALL BE FOUNDATION GRADE RWD OR PRESSURE TREATED.</div> <div>3. ALL LUMBER USED IN CONSTRUCTION LOCATED NEARER 8" TO EARTH SHALL BE F.G. RWD OR P.T.</div> <div>4. PROVIDE SOLID BLOCKING FOR ALL PONY WALLS LESS THAN 14" HIGH</div> <div>5. PROVIDE FIRESTOPS @ CONCEALED DRAFT OPENING, CEILING LINES, FLOOR LINES, FURRED AREAS, SUSPENDED CEILINGS, STAIR STRINGERS, SHOWERS, CHIMNEY ENCLOSURES, & MID HEIGHT OF WALLS OVER 10' IN HEIGHT.</div> <div>6. VERIFY MIN. 22"x30" FLOOR ACCESS. ATTIC ACCESS WITH 30" CLEARING ABOVE OPENING.</div> <div>7. DOORS, WINDOWS, & SHOWER DOORS WITHIN HAZARDOUS AREAS TO BE TEMPERED.</div> <div>8. ALL POSTS, BEAMS & WALLS SUPPORTING THE FLOOR/ CEILING SHALL HAVE ONE-HOUR FIRE PROTECTION.</div> <div>9. ALL NEW WINDOWS AND GLASS SLIDING DOOR SHALL BE LOW-E DUAL GLAZED U.N.O.</div> <div>10. MATERIAL GRADE STAMPS WILL BE CHECKED ON FRAME INSPECTION.</div> <div>11. ALL CONSTRUCTION SHALL COMPLY WITH THE 2022 EDITION OF THE CBC, CMG, CPC, CEC, CRC AND CFC AND THE 2022 CALIFORNIA ENERGY CODE.</div> <div>12. CHANGES FROM THE APPROVED PLANS DURING CONSTRUCTION OTHER THAN 1.) CABINET CHANGES WILL BE HANDLED SUPPORTED ENTIRELY BY THE ROOF STRUCTURE, APPROVED PLAN, 2.) INTERIOR NON-STRUCTURAL WALL FINISHES; SHALL CAUSE PLAN APPROVAL AND CONSTRUCTION TO BE SUSPENDED. A NEW PLAN CHECK (FOR A NEW PLAN) SHOWING CHANGES WILL BE SUBMITTED FOR REVIEW AND APPROVAL THROUGH THE NORMAL PLAN CHECK PROCESS.</div> <div>13. FIREBLOCKING WITH NON-COMBUSTIBLE MATERIAL SHALL BE PROVIDED IN OPENINGS AROUND VENTS, PIPES, DUCTS, FIREPLACES, AND SIMILAR OPENINGS PER CBC 708.2.1 (4).</div> <div>14. PROVIDE SMOKE DETECTORS (HARDWIRED 110v W/BATT BACK-UP) IN EVERY BEDROOMS, THE HALL WAY TO THE BEDROOM, PROVIDE CARBON MONOXIDE SMOKE ALARM DETECTOR IN ALL SLEEPING ROOM.</div> <div>15. IN EACH NEW BEDROOM, THERE IS AT LEAST ONE WINDOW, FOR EMERGENCY ESCAPE OR RESCUE: REQUIRE OPENING OF MINIMUM NET CLEAR AREA, 5.7 SQ. FT., HEIGHT 24", WIDTH 20", AND MAXIMUM FINISHED OPENING HEIGHT 44" ABOVE FINISH FLOOR</div> <div>16. NEW 3'X3' MIN. CONCRETE LANDING AT ALL NEW EXTERIOR DOOR. LANDING SHALL NOT BE LOWER THAN 7-1/2" FROM FLOOR LEVEL.</div> <div>17. BATHROOM SLIDING DOOR MUST BE TEMPERED GLASS.</div> <div>18. ALL NEW BEDROOM MUST BE AFCI CIRCUIT.</div> <div>19. PRESSURE OR THERMOSTATIC MIXING VALVE AT THE SHOWERS AND TUBS, WHICH LIMIT WATER TEMPERATURE TO 120 DEGREES F</div> <div>20. THE SHOWERS MUST HAVE INSIDE DEMAND OF AT LEAST 30 INCHES, THE TOTAL FLOOR AREA OF A SHOWER MUST BE AT LIST 1.024 SQUARE INCHES, OPENING TO SHOWER MUST BE MIN. 24 INCHES WIDE, THE DOOR MUST BE TEMPERED GLASS.(SEE DETAILS)</div>									
ELECTRICAL NOTES:									
<div>MOTION SENSOR WITH INTEGRAL PHOTOCONTROL</div> <div>2. ALL HARDWIRED LIGHTING IN BATHROOMS, GARAGES, LAUNDRY AND UTILITY ROOMS MUST BE HIGH EFFICACY OR CONTROLLED BY A MANUAL-ON MOTION SENSOR</div> <div>3. ALL HARDWIRED LIGHTING IN OTHER ROOMS (HALLWAYS, DINING ROOMS, FAMILY ROOMS AND BEDROOMS) SHALL BE HIGH EFFICACY OR CONTROLLED BY A MANUAL-ON OCCUPANT SENSOR OR A DIMMER MUST CONTROL IT</div> <div>4. ALL SWITCHES ON A MULTIPLE SWITCHED CIRCUIT SHALL BE CONTROLLED BY THE DIMMER SWITCH ON THAT CIRCUIT</div> <div>5. ALL RECESSED FIXTURES SHALL BE LABELED AS BEING CERTIFIED TO HAVE A LEAKAGE RATING OF LESS THAN 2.0 AT 75 PASCAL</div> <div>6. ALL HIGH EFFICACY FIXTURES AND NON-HIGH EFFICACY FIXTURES SHALL BE SWITCHED SEPARATELY</div> <div>7. SMOKE DETECTOR SYSTEM SHALL BE HARD-WIRED, INTERCONNECTED TO SHOWN SIMULTANEOUSLY AND EQUIPED WITH BATTERY BACK-UP.</div> <div>8. MIN. 50% OF WATTAGE OF LIGHTS IN KITCHEN SHALL BE HIGH EFFICACY AND THOSE THAT ARE NOT SHALL BE SWITCHED SEPARATELY</div> <div>9. LIGHTS MOUNTED TO EXTERIOR OF BUILDING SHALL BE HIGH EFFICACY OR ON A PHOTO CONTROL/MOTION SENSOR COMBINATION</div>									
<table><tr><td>LAMP POWER RATING:</td><td>MINIMUM LAMP EFFICACY:</td></tr><tr><td>15 watts or less</td><td>40 lumens per watt</td></tr><tr><td>over 15 watts to 40 watts</td><td>50 lumens per watt</td></tr><tr><td>over 40 watts</td><td>60 lumens per watt</td></tr></table>		LAMP POWER RATING:	MINIMUM LAMP EFFICACY:	15 watts or less	40 lumens per watt	over 15 watts to 40 watts	50 lumens per watt	over 40 watts	60 lumens per watt
LAMP POWER RATING:	MINIMUM LAMP EFFICACY:								
15 watts or less	40 lumens per watt								
over 15 watts to 40 watts	50 lumens per watt								
over 40 watts	60 lumens per watt								
NOTES:									
<div>NOTE: WATER-RESISTANT GYPSUM BACKING BOARD SHALL NOT BE USED WHERE THERE WILL BE DIRECT EXPOSURE TO WATER, OR IN AREAS SUBJECT TO CONTINUOUS HIGH HUMIDITY. 8702.3.7.1</div> <div>NOTE: on plan the fire-resistance-rated floor/ceiling and wall assemblies shall extend to and be tight against the exterior wall, and wall assemblies shall extend from the foundation to the underside of the roof sheathing or rated floor/ceiling assembly.</div>									

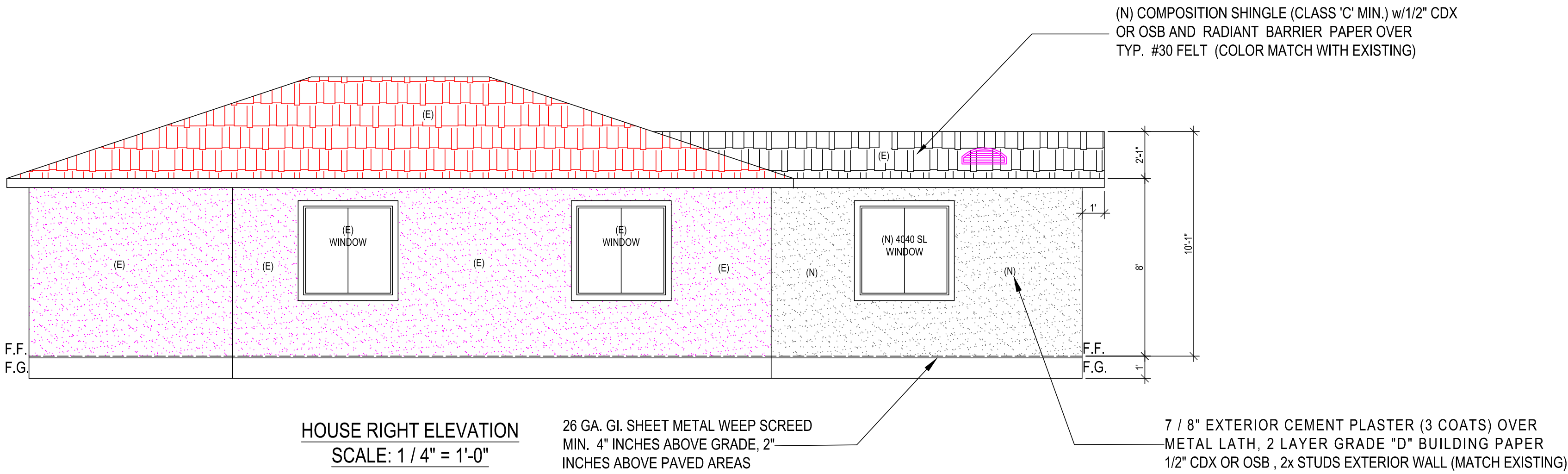
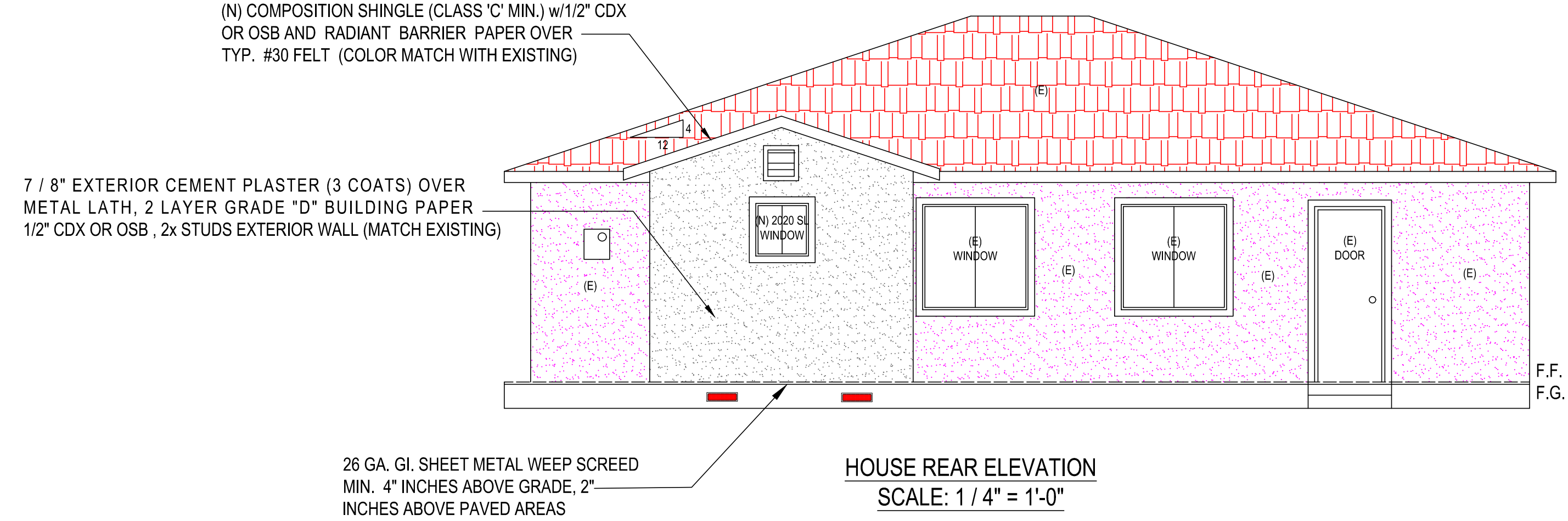
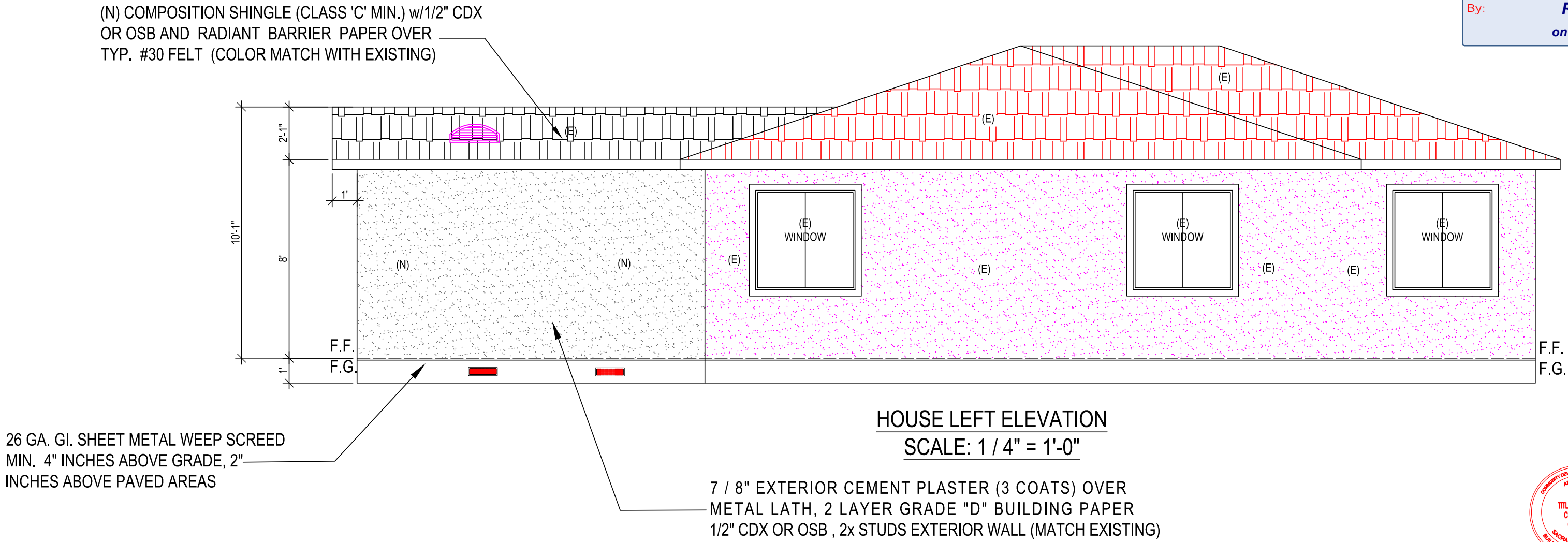
A-2

ROOF VENTILATION:

REQUIRED: ADDITIONAL 140 S.F.
140 SF/150 = 0.93 SF/x144= 135 S.I.
PROPOSED: 200 S.I.
2 DORMER VENTS: 2x 24x12 = 2x100 = 200 S.I.
TOTAL = 200 S.I.

FLOOR VENTILATION:

REQUIRED: ADDITIONAL 140 S.F.
140 SF/150 = 0.93 SF/x144= 135 S.I.
PROPOSED: 260 S.I.
EAVE VENTS: Internet # 310197982
Model # SV145-18 - Store SKU # 1004563109
VENT SIZE: 4'-1/2" x 5'-1/2" = 79.75 S.I.
NFVA= 79.75 S.I. x 0.65 = 65 S.I.
EAVE VENTS: 4 x 65 S.I. = 260 S.I.
TOTAL = 260 S.I.



Specifications			
24 in. x 12 in. Galvanized Steel Half Round Dormer Vent			
Specifications			
Dimensions			
Color Family	12 in.	Net Free Area (Sq. Ft.)	1.00
Color	Galvanized Steel	Product Depth (in.)	12 in.
Material	Galvanized Steel	Product Width (in.)	24 in.
Finish	Galvanized Steel	Product Weight (lb.)	1.00
Product Weight (lb.)	1.00	Screen Included	No
Shape	Half Round	SPF Treatment	No

Testing Doc



BAJ
GRAPHIC DESIGN
9743 WHITE PINE WAY, ELK GROVE, CA 95624
Email: helennguyen3689@gmail.com
Tell: (916) 526-5881 & (408) 876-8402

Date: APRIL 2025

Scale: AS SHOWN

Drawn: LUyen HONG NGUYEN

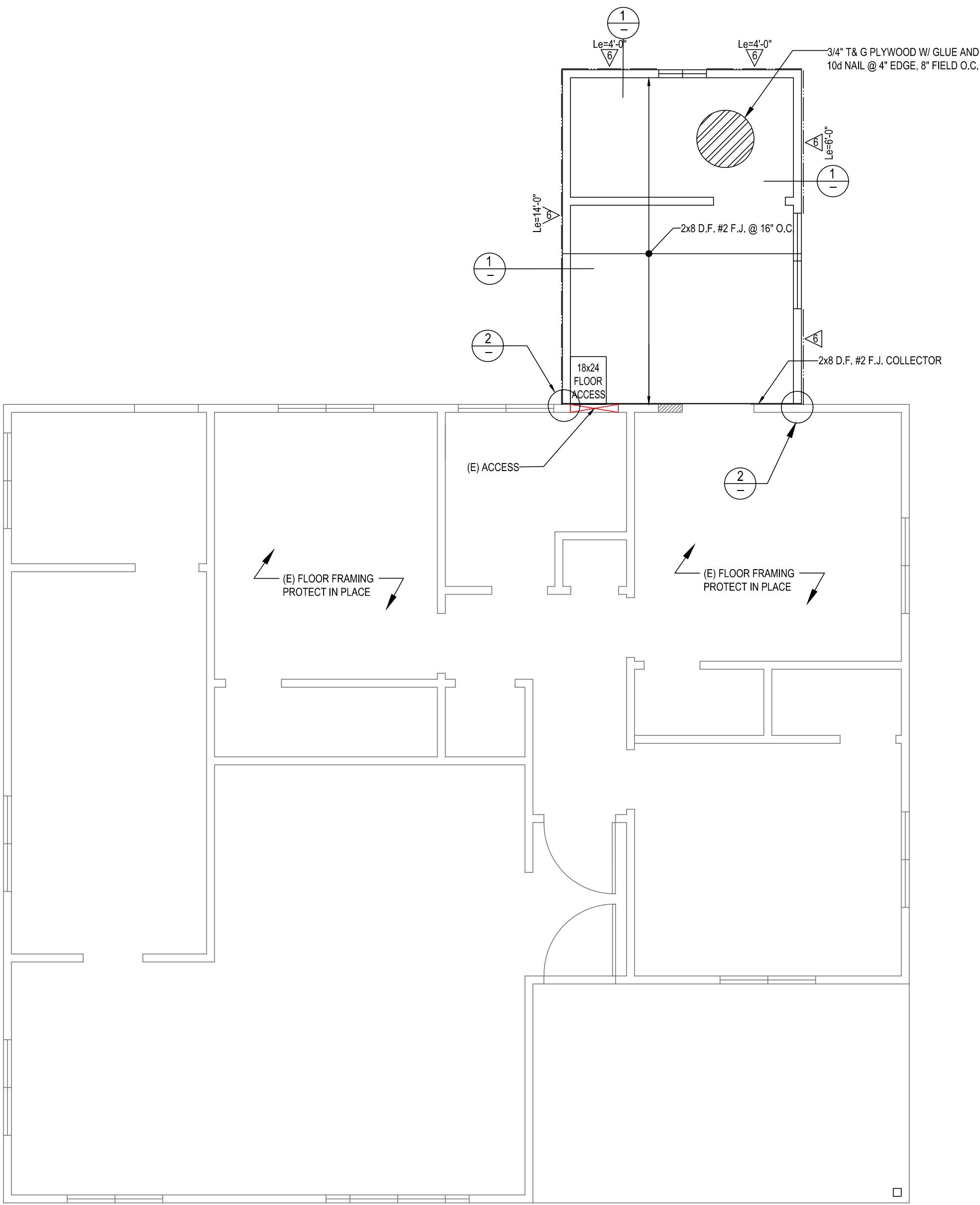
Signed: *Thuy*

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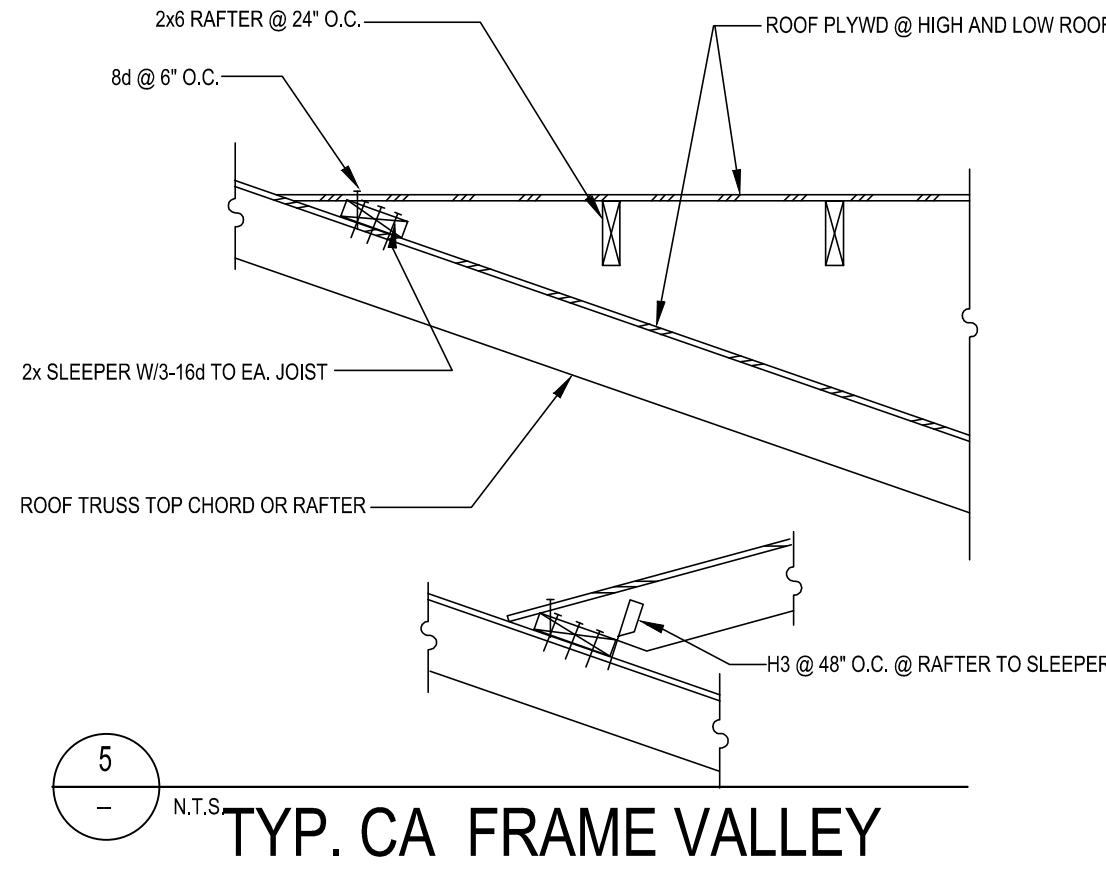
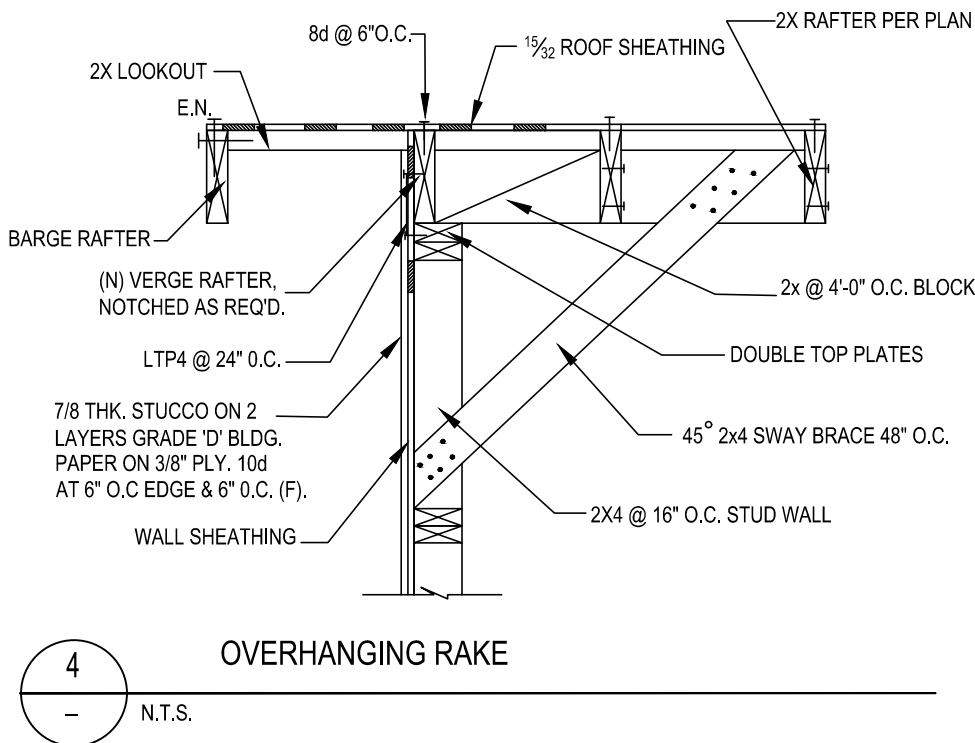
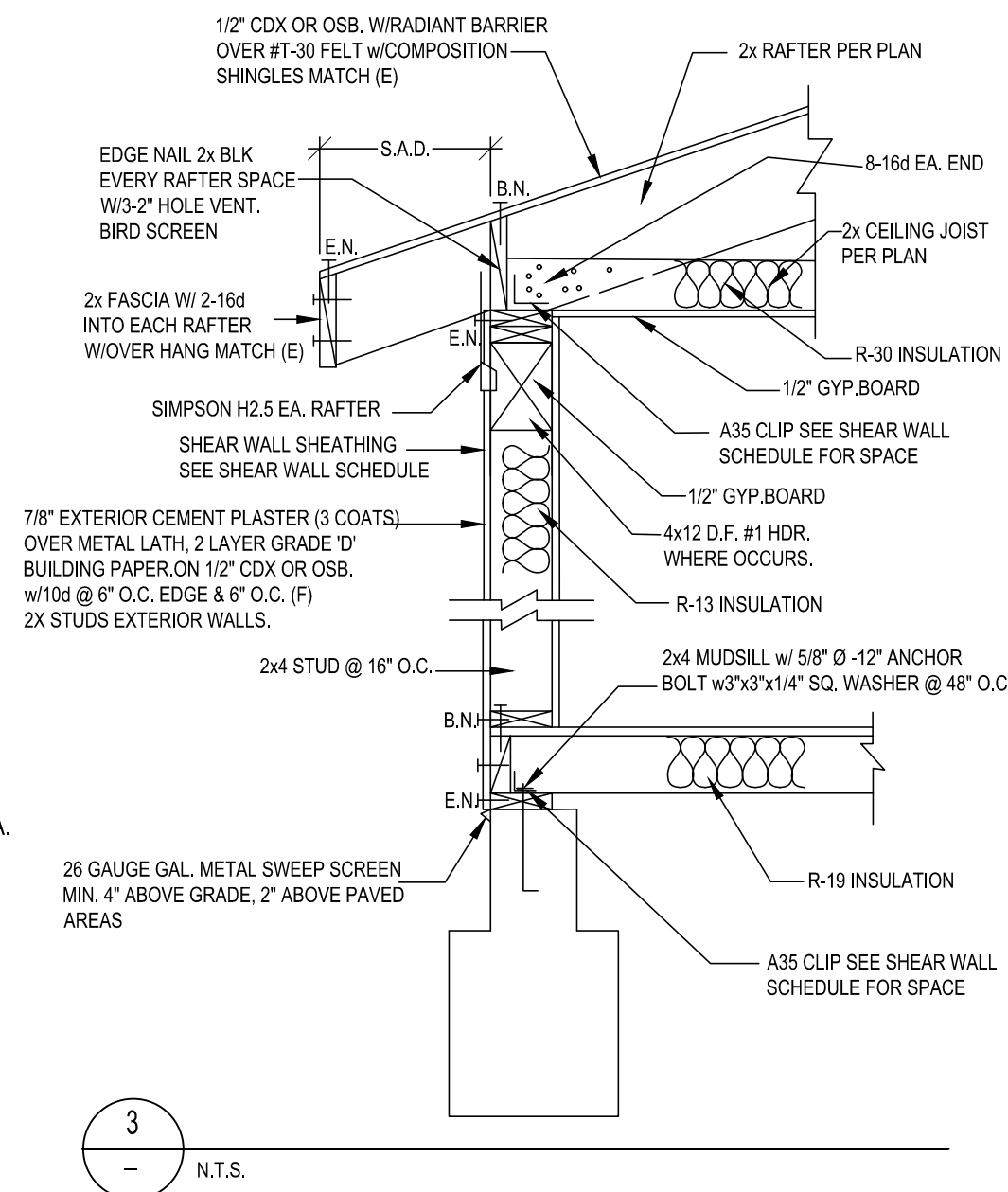
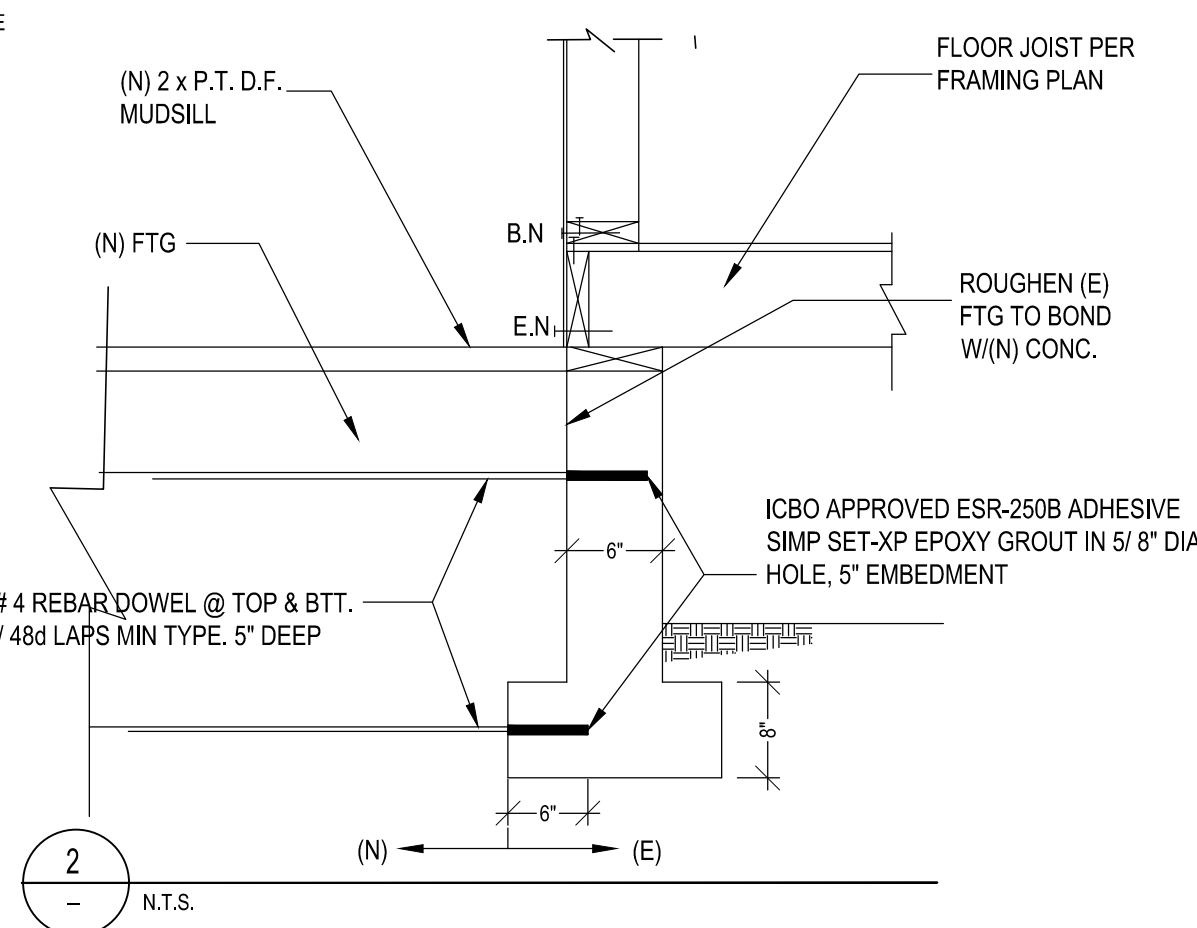
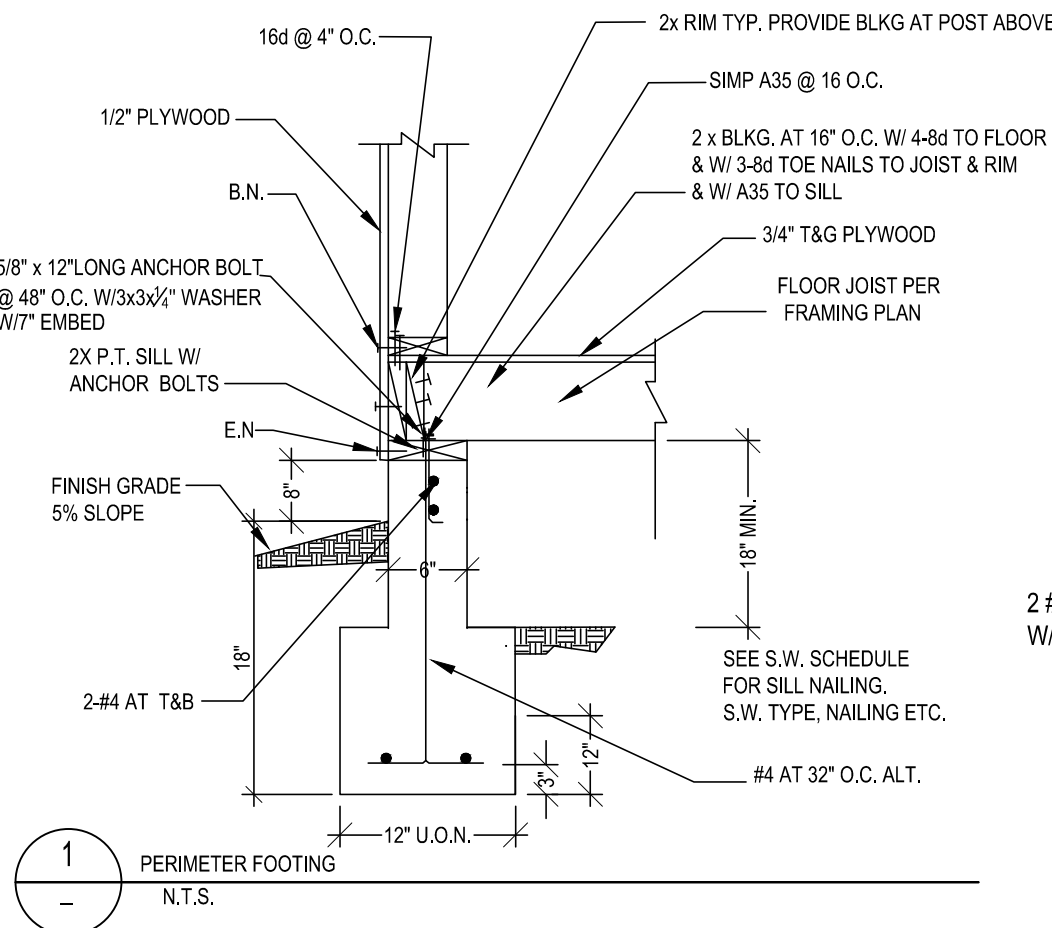
ELEVATION PLAN
CHUN XIONG LUO'S RESIDENCE
5539 36TH AVE, SACRAMENTO, CA 95824

REVISION	DATE	BY

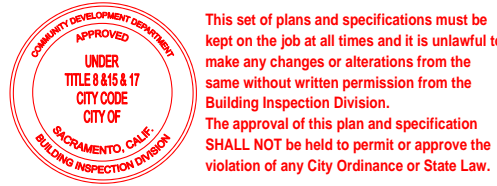
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FOUNDATION PLAN
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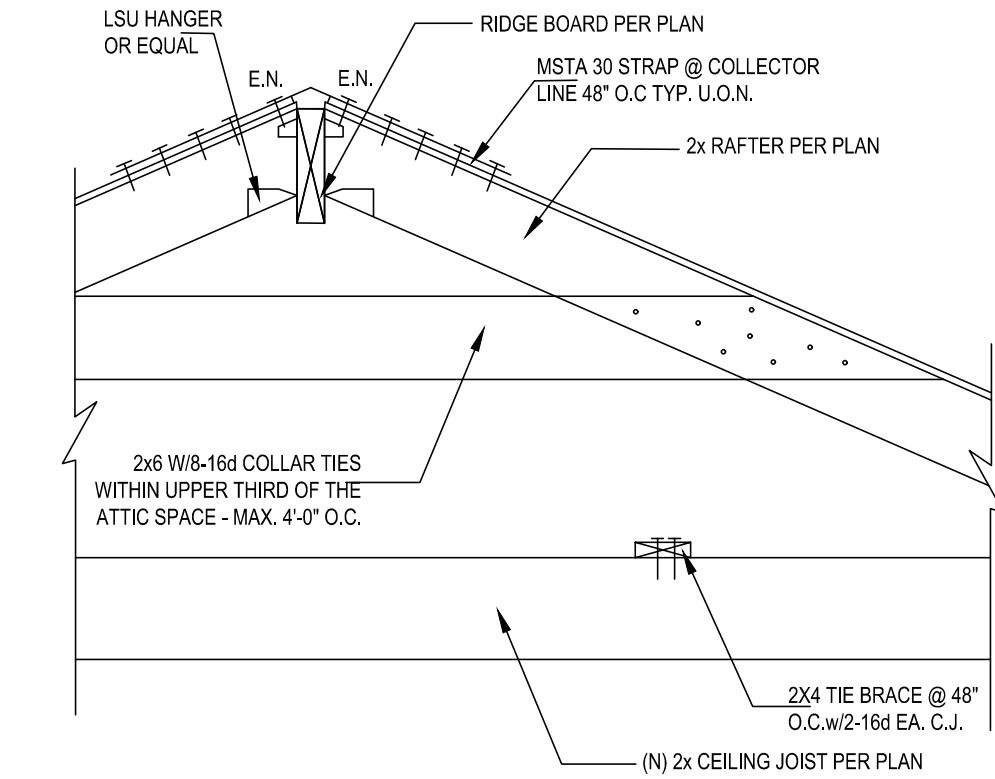
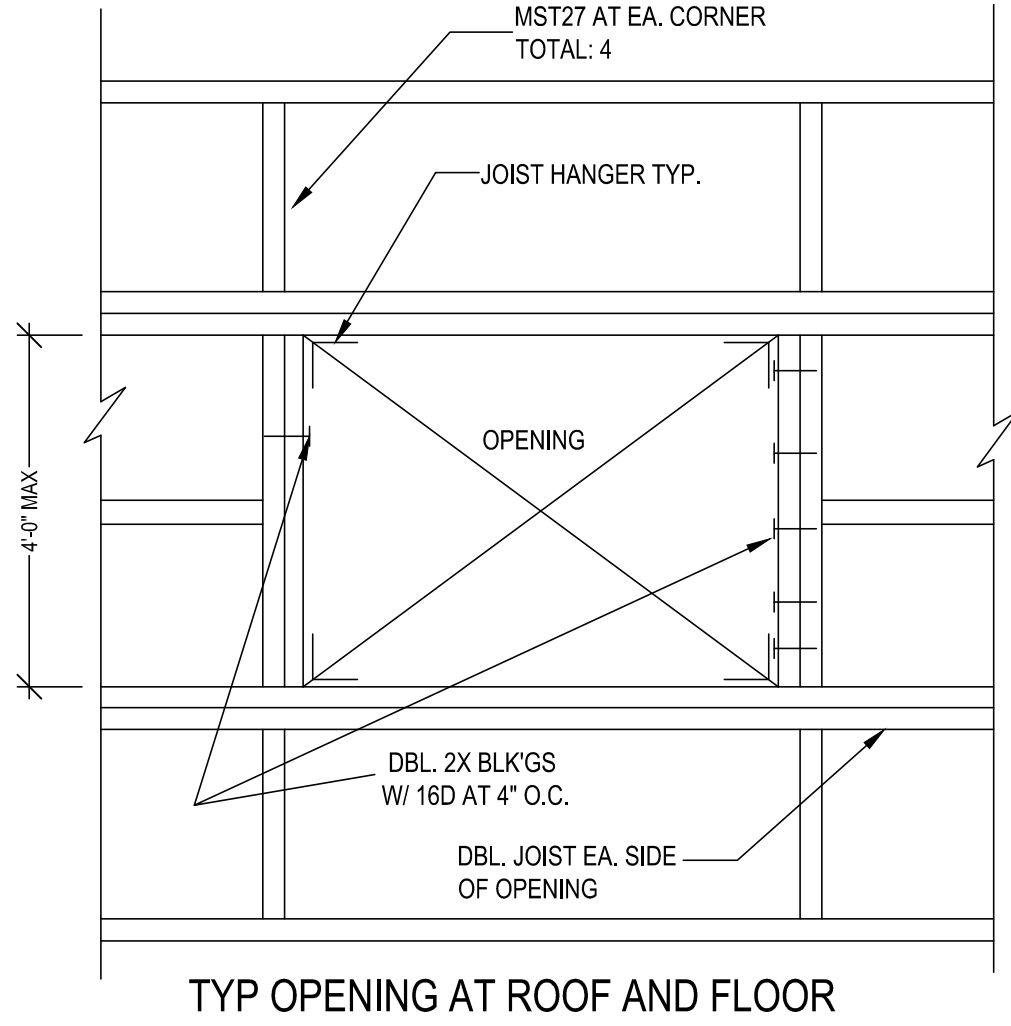
SACRAMENTO
Community Development
ISSUED BY
By: **RLLeach**
on May 08, 2025



This set of plans and specifications must be kept on the job at all times and it is unlawful to make any changes or alterations from the same without written permission from the Building Inspection Division. The approval of this plan and specification SHALL NOT be held to permit or approve the violation of any City Ordinance or State Law.

BRACE WALL SCHEDULE						
TYPE	STUD	1/2 CDX (OSB)	NAILS	SILL PLATE NAILS P.T.	FRAMING CLIP ANGLE @ TOP PLATE	ANCHOR BOLT
6	2x4 @ 16" O.C.	1/2 CDX (OSB)	10d @ 6" EDGE 10d @ 12" FIELD	16d @ 4" O.C.	LS50 @ 16" O.C. A 35 @ 16" O.C.	5/8 Ø - 12" @ 48" O.C. W/3"x3"x0.3 P/WASHER
△	ALTERNATE SHEAR WALL BRACE					

SACRAMENTO
Community Development
APPROVED
By: **Stephanie Samuels**
on Apr 28, 2025



6
-
N.T.S.

CA FRAME HIGH ROOF SHALL BE FRAMED WITH 2x6 RAFTER @ 24" O.C. PROVIDE 2x6 PURLIN @ 6 FT ON CENTER w/ 2x4 KICKER @ 48" O.C. TO SLEEPER BELOW. SLEEPER SHALL BE 2x6 LAID FLAT OF CALIFORNIA LOW ROOF W/ (2) - 16d TO EACH RAFTER.



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REVISION	DATE	BY

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A-4



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Date: APRIL 2025

Scale: AS SHOWN

Drawn: LUYN HONG NGUYEN

Signed: *Thuy*

STAMPED FROM CITY

T-24 ENERGY REPORT
CHUN XIONG LUO'S RESIDENCE
5539 36TH AVE, SACRAMENTO, CA 95824

REVISION	DATE	BY

SHEET NO:

A-5

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD
Project Name: Residence+Addition
Calculation Description: Title 24 Analysis
Calculation Date/Time: 2025-04-04T19:29:56-07:00
Input File Name: 36TH AVE, SACRAMENTO, CA 95824.rbd22x

CF1R-PHF-01-E
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GENERAL INFORMATION	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100																																																																																																																																																																																																							
01	Project Name	Residence+Addition	02	Run Title	T-24 Analysis	03	Project Location	5539 36TH AVE	04	City	DAVIS	05	Zip code	95824	06	Climate Zone	3	07	Software Version	EnergyPro 9.3	08	Building Type	Single-Fam	09	Building Type	Single-Fam	10	Project Location	Addition	11	Number of Bedrooms	3	12	Number of Bathrooms	1	13	Number of Stories	1	14	Number of Units	1	15	Number of Units	1	16	Number of Units	1	17	Number of Units	1	18	Number of Units	1	19	Number of Units	1	20	Number of Units	1	21	Number of Units	1	22	Number of Units	1	23	Number of Units	1	24	Number of Units	1	25	Number of Units	1	26	Number of Units	1	27	Number of Units	1	28	Number of Units	1	29	Number of Units	1	30	Number of Units	1	31	Number of Units	1	32	Number of Units	1	33	Number of Units	1	34	Number of Units	1	35	Number of Units	1	36	Number of Units	1	37	Number of Units	1	38	Number of Units	1	39	Number of Units	1	40	Number of Units	1	41	Number of Units	1	42	Number of Units	1	43	Number of Units	1	44	Number of Units	1	45	Number of Units	1	46	Number of Units	1	47	Number of Units	1	48	Number of Units	1	49	Number of Units	1	50	Number of Units	1	51	Number of Units	1	52	Number of Units	1	53	Number of Units	1	54	Number of Units	1	55	Number of Units	1	56	Number of Units	1	57	Number of Units	1	58	Number of Units	1	59	Number of Units	1	60	Number of Units	1	61	Number of Units	1	62	Number of Units	1	63	Number of Units	1	64	Number of Units	1	65	Number of Units	1	66	Number of Units	1	67	Number of Units	1	68	Number of Units	1	69	Number of Units	1	70	Number of Units	1	71	Number of Units	1	72	Number of Units	1	73	Number of Units	1	74	Number of Units	1	75	Number of Units	1	76	Number of Units	1	77	Number of Units	1	78	Number of Units	1	79	Number of Units	1	80	Number of Units	1	81	Number of Units	1	82	Number of Units	1	83	Number of Units	1	84	Number of Units	1	85	Number of Units	1	86	Number of Units	1	87	Number of Units	1	88	Number of Units	1	89	Number of Units	1	90	Number of Units	1	91	Number of Units	1	92	Number of Units	1	93	Number of Units	1	94	Number of Units	1	95	Number of Units	1	96	Number of Units	1	97	Number of Units	1	98	Number of Units	1	99	Number of Units	1	100	Number of Units	1

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Report Version: 2022.0.000
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Schema Version: rev 2022/09/01

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD
Project Name: Residence+Addition
Calculation Description: Title 24 Analysis
Calculation Date/Time: 2025-04-04T19:29:56-07:00
Input File Name: 36TH AVE, SACRAMENTO, CA 95824.rbd22x

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2022 CALGREEN RESIDENTIAL OCCUPANCIES APPLICATION CHECKLIST SECTION A4.602 Effective January 1, 2023 HCD SHL 620C (New 01/23)						
FEATURE OR MEASURE	LEVELS APPLICANT TO SELECT ELECTIVE MEASURES			VERIFICATIONS ENFORCING AGENCY TO SPECIFY VERIFICATION METHOD		
	Mandatory	Prerequisites and Electives ¹		Enforcing Agency	Installer or Designer	Third- Party
		Tier 1	Tier 2			
				<input type="checkbox"/> All	<input type="checkbox"/> All	<input type="checkbox"/> All
A4.103.1 A site which complies with at least one of the following characteristics is selected: 1. An infill site is selected. 2. A greyfield site is selected. 3. An EPA-recognized Brownfield site is selected.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
A4.103.2 Facilitate community connectivity by one of the following methods: 1. Locate project within a 1/4-mile true walking distance of at least 4 basic services. 2. Locate project within 1/2-mile true walking distance of at least 7 basic services. 3. Other methods increasing access to additional resources.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A4.104.1 An individual with oversight responsibility for the project has participated in an educational program promoting environmentally friendly design or development and has provided training or instruction to appropriate entities.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A4.105.2 Existing buildings are disassembled for reuse or recycling of building materials. The proposed structure utilizes at least one of the following materials which can be easily reused: 1. Light fixtures 2. Plumbing fixtures 3. Doors and trim 4. Masonry 5. Electrical devices 6. Appliances 7. Foundations or portions of foundations		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.106.2 A plan is developed and implemented to manage storm water drainage during construction.	<input checked="" type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.106.3 Construction plans shall indicate how site grading, or a drainage system will manage all surface water flows to keep water from entering buildings.	<input checked="" type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1						

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A4.203.1.2 Prerequisite options. In addition, a minimum of two of the efficiency measures specified in Sections A4.203.1.2.1 through A4.203.1.2.8 will be required to be met: • Roof Deck Insulation or Ducts in Conditioned Space. • High performance Walls. • Compact Hot Water Distribution System. • Drain Water Heat Recovery. • High Performance Vertical Fenestration. • Heat Pump Water Heater Demand Management. • Battery Storage System Controls. • Heat Pump Space and Water Heating.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A4.203.1.3 Consultation with local electric service provider. Local jurisdictions considering adoption of reduced EDR targets based on using solar photovoltaic (PV) systems larger than required by the <i>California Energy Code</i> shall consult with the local electric service provider to ensure that that PV system sizing required to comply with the EDR targets will be acceptable to the local electric service provider.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.303.1 Plumbing fixtures (water closets and urinals) and fittings (showerheads, faucets and pre-rinse spray valves) installed in residential buildings shall comply with the prescriptive requirements of Sections 4.303.1.1 through 4.303.1.4.5.	<input checked="" type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.303.2 Submeters for multi-family building and dwelling units in mixed-use residential/commercial buildings. Submeters shall be installed to measure water usage of individual rental dwelling units in accordance with the <i>California Plumbing Code</i> .	<input checked="" type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.303.3 Plumbing fixtures and fittings required in Section 4.303.1 shall be installed in accordance with the <i>California Plumbing Code</i> and shall meet the applicable referenced standards.	<input checked="" type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5						

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		Tier 1	Tier 2			
4.106.4.1 Provide capability for electric vehicle charging for one- and two-family dwellings; townhouses with attached private garages; in accordance with Section 4.106.4.1.	<input checked="" type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.106.4.2 Provide capability for electric vehicle charging for multifamily dwellings and hotel/motels in accordance with Sections 4.106.4.2.1 or 4.106.4.2.2, as applicable.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.106.4.3 Provide capability for electric vehicle charging for existing parking lots or new parking lots for existing residential buildings in accordance with Section 4.106.4.3, as applicable.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A4.106.1 Reserved.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A4.106.2.1 Soil analysis is performed by a licensed design professional and the findings are utilized in the structural design of the building.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A4.106.2.2 Soil disturbance and erosion are minimized by at least one of the following: 1. Natural drainage patterns are evaluated, and erosion controls are implemented to minimize erosion during construction and after occupancy. 2. Site access is accomplished by minimizing the amount of cut and fill needed to install access roads and driveways. 3. Underground construction activities are coordinated to utilize the same trench, minimize the amount of time the disturbed soil is exposed, and the soil is replaced using accepted compaction methods.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A4.106.2.3 Topsoil shall be protected or saved for reuse as specified in this section. Tier 1. Displaced topsoil shall be stockpiled for reuse in a designated area and covered or protected from erosion. Tier 2. The construction area shall be identified and delineated by fencing or flagging to limit construction activity to the construction area.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A4.106.3 Postconstruction landscape designs accomplish one or more of the following: 1. Areas disrupted during construction are restored to be consistent with native vegetation species and patterns. 2. Utilize at least 75% native California or drought tolerant plant and tree species appropriate for the climate zone region.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2						

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A4.303.1 The maximum flow rate of kitchen faucets shall not exceed 1.5 gallons per minute at 60 psi. Kitchen faucets may temporarily increase the flow above the maximum rate, but not to exceed 2.2 gallons per minute at 60 psi and must default to a maximum flow rate of 1.5 gallons per minute at 60 psi. Note: Where complying faucets are unavailable, aerators or other means may be used to achieve reduction.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.303.1.4.3 Metering faucets in residential buildings shall not deliver more than 0.2 gallons per cycle.	<input checked="" type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A4.303.2 Alternate water source for nonpotable applications. Alternate nonpotable water sources are used for indoor potable water reduction. Alternate nonpotable water sources shall be installed in accordance with the <i>California Plumbing Code</i> .		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A4.303.3 Install at least one qualified ENERGY STAR dishwasher or clothes washer.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A4.303.4 Nonwater urinals or waterless toilets are installed.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A4.303.5 One- and two-family dwellings shall be equipped with a demand hot water recirculation system.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.304.1 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.	<input checked="" type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A4.304.1.1 A rainwater capture, storage and re-use system is designed and installed.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A4.304.2 A landscape design is installed, which does not utilize potable water.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A4.304.3 For new water service connections, landscaped irrigated areas less than 5,000 square feet shall be provided with separate submeters or metering devices for outdoor potable water use.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A4.305.1 Piping is installed to permit future use of a graywater irrigation system served by the clothes washer or other fixtures.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A4.305.2 Recycled water piping is installed.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A4.305.3 Recycled water is used for landscape irrigation.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6						

2022 CALGREEN RESIDENTIAL OCCUPANCIES APPLICATION CHECKLIST SECTION A4.602 Effective January 1, 2023 HCD SHL 620C (New 01/23)						
FEATURE OR MEASURE	LEVELS APPLICANT TO SELECT ELECTIVE MEASURES			VERIFICATIONS ENFORCING AGENCY TO SPECIFY VERIFICATION METHOD		
	Mandatory	Prerequisites and Electives ¹		Enforcing Agency	Installer or Designer	Third- Party
		Tier 1	Tier 2			
A4.106.4 Permeable paving is utilized for the parking, walking or patio surfaces in compliance with the following: Tier 1. Not less than 20% of the total parking, walking or patio surfaces shall be permeable. Tier 2. Not less than 30% of the total parking, walking or patio surfaces shall be permeable.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A4.106.5 Roofing materials shall have a minimum 3-year aged solar reflectance and thermal emittance or a minimum Solar Reflectance Index (SRI) equal to or greater than the values specified in the applicable tables. Low-Rise Residential Tier 1. roof covering shall meet or exceed the values contained in Table A4.106.5.1(1). Tier 2. roof covering shall meet or exceed the values contained in Table A4.106.5.1(2). High-Rise Residential, Hotels and Motels Tier 1. roof covering shall meet or exceed the values contained in Table A4.106.5.1(3). Tier 2. roof covering shall meet or exceed the values contained in Table A4.106.5.1(4).		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A4.106.6 Install a vegetated roof for at least 50 percent of the roof area. Vegetated roofs shall comply with requirements for roof gardens and landscaped roofs in the <i>California Building Code</i> , Chapters 15 and 16.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A4.106.7 Reduce nonroof heat islands for 50 percent of sidewalks, patios, driveways or other paved areas by using one or more of the methods listed.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A4.106.8.1 Tier 1 and Tier 2 for one- and two-family dwellings and townhouses with attached private garages. Install a dedicated 208/240-volt branch circuit, including an overcurrent protective device rated at 40 amperes minimum per dwelling unit.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A4.106.8.2.1 Provide capability for electric vehicle charging in new multifamily dwellings, as specified. Tier 1. 35 percent of the total number of parking spaces shall be electric vehicle (EV) ready with low power Level 2 EV charging receptacles. For projects with 20 or more dwelling units, sleeping units or guest rooms, 10 percent of the total number of parking spaces shall be equipped with Level 2 EVSE. Tier 2. 40 percent of the total number of parking spaces shall be electric vehicle (EV ready) with low power Level 2 EV charging receptacles. For projects with 20 or more dwelling units, sleeping units or guest rooms, 15 percent of the total number of parking spaces shall be equipped with Level 2 EVSE.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3						

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FEATURE OR MEASURE	LEVELS APPLICANT TO SELECT ELECTIVE MEASURES			VERIFICATIONS ENFORCING AGENCY TO SPECIFY VERIFICATION METHOD		
	Mandatory	Prerequisites and Electives ¹		Enforcing Agency	Installer or Designer	Third- Party
		Tier 1	Tier 2			
A4.106.9 Provide bicycle parking facilities as noted below or meet a local ordinance, whichever is more stringent. Number of bicycle parking spaces may be reduced, as approved by the enforcing agency, due to building site characteristics, including but not limited to, isolation from other development. 1. Provide short-term bicycle parking, per Section A4.106.9.1. 2. Provide long-term bicycle parking for multifamily buildings, per Section A4.106.9.2. 3. Provide long-term bicycle parking for hotel and motel buildings, per Section A4.106.9.3.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A4.108.1 Items in this section are necessary to address innovative concepts or local environmental conditions.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Item 1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Item 2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Item 3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.201.1 Building meets or exceeds the requirements of the <i>California Building Energy Efficiency Standards</i> ² .	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A4.203.1.1. Hourly Source Energy Design Ratings (EDR1). EDR ratings for building design shall be computed by Energy Compliant software and shall reduce the EDR1 required by the software by the compliance margins specified in Table A4.203.1.1.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4						



BAJ
GRAPHIC DESIGN

9743 WHITE PINE WAY, ELK GROVE, CA 95624
Email: helennguyen3689@gmail.com
Tell: (916) 526-5881 & (408) 876-8402

Date: APRIL 2025

Scale: AS SHOWN

Drawn: LUyen HONG NGUYEN

Signed: *Thuy*

STAMPED FROM CITY

CG-1 CAL GREEN MANDATORY
CHUN XIONG LUO'S RESIDENCE
5539 36TH AVE, SACRAMENTO, CA 95824

REVISION	DATE	BY

SHEET NO:

A-6

2022 CALGREEN RESIDENTIAL OCCUPANCIES APPLICATION CHECKLIST

SECTION A4.602

Effective January 1, 2023

HCD SHL 620C (New 01/23)

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	Mandatory	Prerequisites and Electives ¹		Enforcing Agency	Installer or Designer	Third-Party
		Tier 1	Tier 2			
				<input type="checkbox"/> All	<input type="checkbox"/> All	<input type="checkbox"/> All
A4.306.1 Items in this section are necessary to address innovative concepts or local environmental conditions.						
Item 1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Item 2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Item 3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A4.403.1 A Frost-Protected Shallow Foundation (FPSF) is designed and constructed.				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A4.403.2 Cement use in foundation mix design is reduced. Tier 1. Not less than a 20 percent reduction in cement use. Tier 2. Not less than a 25 percent reduction in cement use.		<input checked="" type="checkbox"/> ²		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input checked="" type="checkbox"/> ²			
A4.404.1 Beams and headers and trimmers are the minimum size to adequately support the load.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A4.404.2 Building dimensions and layouts are designed to minimize waste.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A4.404.3 Use premanufactured building systems to eliminate solid sawn lumber whenever possible.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A4.404.4 Material lists are included in the plans which specify material quantity and provide direction for on-site cuts.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A4.405.1 One or more of the following building materials, that do not require additional resources for finishing are used: 1. Exterior trim not requiring paint or stain. 2. Windows not requiring paint or stain. 3. Siding or exterior wall coverings which do not require paint or stain.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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	Mandatory	Prerequisites and Electives ¹		Enforcing Agency	Installer or Designer	Third-Party
		Tier 1	Tier 2			
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A4.405.2 Floors that do not require additional coverings are used including but not limited to stained, natural or stamped concrete floors.				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A4.405.3 Postconsumer or preconsumer recycled content value (RCV) materials are used on the project. Tier 1. Not less than a 10% RCV. Tier 2. Not less than a 15% RCV.		<input checked="" type="checkbox"/> ²	<input checked="" type="checkbox"/> ²	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A4.405.4 Renewable source building products are used.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.406.1 Annular spaces around pipes, electric cables, conduits or other openings in 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.	<input checked="" type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A4.407.1 Install foundation and landscape drains.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A4.407.2 Install gutter and downspout systems to route water at least 5 feet away from the foundation or connect to landscape drains which discharge to a dry well, sump, bioswale, rainwater capture system or other approved on-site location.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A4.407.3 Provide flashing details on the building plans and comply with accepted industry standards or manufacturer's instructions.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A4.407.4 Protect building materials delivered to the construction site from rain and other sources of moisture.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A4.407.5 In Climate Zone 16, an ice/water barrier is installed at roof valleys, eaves and wall to roof intersections.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A4.407.6 Exterior doors to the dwelling are protected to prevent water intrusion.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A4.407.7 A permanent overhang or awning at least 2 feet in depth is provided at all exterior walls.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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	Mandatory	Prerequisites and Electives ¹		Enforcing Agency	Installer or Designer	Third-Party
		Tier 1	Tier 2			
4.408.1 Recycle and/or salvage for reuse a minimum of 65% of the nonhazardous construction and demolition waste in accordance with one of the following: 1. Comply with a more stringent local construction and demolition waste management ordinance; or 2. A construction waste management plan, per Section 4.408.2; or 3. A waste management company, per Section 4.408.3; or 4. The waste stream reduction alternative, per Section 4.408.4.	<input checked="" type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A4.408.1 Construction waste generated at the site is diverted to recycle or salvage in compliance with one of the following: Tier 1. At least a 65% reduction with a third-party verification. Tier 2. At least a 75% reduction with a third-party verification. Exception: Equivalent waste reduction methods are developed by working with local agencies.		<input checked="" type="checkbox"/> ²	<input checked="" type="checkbox"/> ²	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.410.1 An operation and maintenance manual shall be provided to the building occupant or owner.	<input checked="" type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.410.2 Where 5 or more multifamily dwelling units are constructed on a building site, provide readily accessible areas that serve the entire building and are identified for the depositing, storage and collection of non-hazardous materials for recycling, including (at a minimum) paper, corrugated cardboard, glass, plastics, organic waste, and metals or meet a lawfully enacted local recycling ordinance, if more restrictive. Exception: Rural jurisdictions that meet and apply for the exemption in Public Resources Code Section 42649.82(a)(2)(A) et seq. will also be exempt from the organic waste portion of this section.	<input checked="" type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A4.411.1 Items in this section are necessary to address innovative concepts or local environmental conditions.						

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SACRAMENTO

Community Development

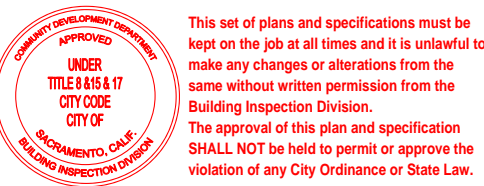
APPROVED

City of Sacramento Planning Division

Residential Building Division

By: **Stephanie Samuels**

on Apr 28, 2025



SACRAMENTO

Community Development

ISSUED BY

Community Development Department

By: **RLLeach**

on May 08, 2025

This set of plans and specifications must be kept on the job at all times and it is unlawful to make any changes or alterations from the same without written permission from the Building Inspection Division. The approval of this plan and specification SHALL NOT be held to permit or approve the violation of any City Ordinance or State Law.



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GRAPHIC DESIGN

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Scale: AS SHOWN

Drawn: LUYEN HONG NGUYEN

Signed: *Thuy*

STAMPED FROM CITY

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REVISION	DATE	BY

SHEET NO:

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	Mandatory	Prerequisites and Electives ¹		Enforcing Agency	Installer or Designer	Third-Party
		Tier 1	Tier 2			
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> All	<input type="checkbox"/> All	<input type="checkbox"/> All
Item 1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Item 2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Item 3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.503.1 Any installed gas fireplace shall be a direct-vent sealed-combustion type. Any installed woodstove or pellet stove shall comply with U.S. EPA New Source Performance Standards (NSPS) emission limits as applicable and shall have a permanent label indicating they are certified to meet the emission limits. Woodstoves, pellet stoves and fireplaces shall also comply with applicable local ordinances.	<input checked="" type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.504.1 Duct openings and other related air distribution component openings shall be covered during construction.	<input checked="" type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.504.2.1 Adhesives, sealants and caulks shall be compliant with VOC and other toxic compound limits.	<input checked="" type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.504.2.2 Paints, stains and other coatings shall be compliant with VOC limits.	<input checked="" type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.504.2.3 Aerosol paints and coatings shall be compliant with product-weighted MIR Limits for ROC and other toxic compounds.	<input checked="" type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.504.2.4 Documentation shall be provided to verify that compliant VOC limit finish materials have been used.	<input checked="" type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.504.3 Carpet and carpet systems shall be compliant with VOC limits.	<input checked="" type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.504.4 80% of floor area receiving resilient flooring shall comply with specified VOC criteria.	<input checked="" type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.504.5 Particleboard, medium density fiberboard (MDF) and hardwood plywood used in interior finish systems shall comply with low formaldehyde emission standards.	<input checked="" type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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	Mandatory	Prerequisites and Electives ¹		Enforcing Agency	Installer or Designer	Third-Party
		Tier 1	Tier 2			
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> All	<input type="checkbox"/> All	<input type="checkbox"/> All
A4.504.1 Use composite wood products made with either California Air Resources Board approved no-added formaldehyde (NAF) resins or ultra-low emitting formaldehyde (ULEF) resins.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A4.504.2 Install VOC compliant resilient flooring systems. Tier 1. At least 90% of the resilient flooring installed shall comply. Tier 2. 100% of the resilient flooring installed shall comply.		<input checked="" type="checkbox"/> ²	<input checked="" type="checkbox"/> ²	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A4.504.3 Thermal insulation installed in the building shall meet the following requirements: Tier 1. Install thermal insulation in compliance with VOC limits. Tier 2. Install insulation which contains no-added formaldehyde (NAF) and is in compliance with Tier 1.		<input checked="" type="checkbox"/> ²	<input checked="" type="checkbox"/> ²	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.505.2 Vapor retarder and capillary break is installed at slab-on-grade foundations.	<input checked="" type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.505.3 Moisture content of building materials used in wall and floor framing is checked before enclosure.	<input checked="" type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.506.1 Each bathroom shall be provided with the following: 1. ENERGY STAR fans ducted to terminate outside the building. 2. Fans must be controlled by a humidity control (separate or built-in); OR functioning as a component of a whole-house ventilation system. 3. Humidity controls with manual or automatic means of adjustment, capable of adjustment between a relative humidity range of ≤ 50% to a maximum of 60%.	<input checked="" type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A4.506.1 Reserved.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A4.506.2 [HR] Provide filters on return air openings rated MERV 8 or higher during construction when it is necessary to use HVAC equipment.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A4.506.3 Direct-vent appliances shall be used when equipment is located in conditioned space; or the equipment must be installed in an isolated mechanical room.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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		Tier 1	Tier 2			
4.507.2 Duct systems are sized, designed, and equipment is selected using the following methods: 1. Establish heat loss and heat gain values according to ANSI/ACCA 2 Manual J - 2016 or equivalent. 2. Size duct systems according to ANSI/ACCA 1 Manual D - 2016 or equivalent. 3. Select heating and cooling equipment according to ANSI/ACCA 3 Manual S - 2014 or equivalent.	<input checked="" type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Outdoor Air Quality Reserved						
Innovative Concepts and Local Environmental Conditions						
A4.509.1 Items in this section are necessary to address innovative concepts or local environmental conditions.						
Item 1		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Item 2		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Item 3		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
702.1 HVAC system installers are trained and certified in the proper installation of HVAC systems.	<input checked="" type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
702.2 Special inspectors employed by the enforcing agency must be qualified and able to demonstrate competence in the discipline they are inspecting.	<input checked="" type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
703.1 Verification of compliance with this code may include construction documents, plans, specifications builder or installer certification, inspection reports, or other methods acceptable to the enforcing agency which show substantial conformance.	<input checked="" type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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¹Green building measures listed in this table may be mandatory if adopted by a city, county, or city and county as specified in Section 101.7
² Required prerequisite for this Tier.

	2022 Single-Family Residential Mandatory Requirements Summary
NOTE: Single-family residential buildings subject to the Energy Codes must comply with all applicable mandatory measures, regardless of the compliance approach used. Review the respective section for more information. (04/2022)	
Building Envelope:	
§ 110.6(a)(1):	Air Leakage. Manufactured fenestration, exterior doors, and exterior pet doors must limit air leakage to 0.3 CFM per square foot or less when tested per NFRC-400, ASTM E283, or AAMA/WDMA/CSA 1011.5.2/A440-2011. *
§ 110.6(a)(5):	Labeling. Fenestration products and exterior doors must have a label meeting the requirements of § 10-11(a).
§ 110.6(b):	Field fabricated exterior doors and fenestration products must use U-factors and solar heat gain coefficient (SHGC) values from Tables 110.6-A, 110.6-B, or JA4.5 for exterior doors. They must be caulked and/or weather-stripped. *
§ 110.7:	Air Leakage. All joints, penetrations, and other openings in the building envelope that are potential sources of air leakage must be caulked, gasketed, or weather striped.
§ 110.8(a):	Insulation Certification by Manufacturers. Insulation must be certified by the Department of Consumer Affairs, Bureau of Household Goods and Services (BHGS).
§ 110.8(b):	Insulation Requirements for Heated Slab Floors. Heated slab floors must be insulated per the requirements of § 110.8(g).
§ 110.8(j):	Roofing Products Solar Reflectance and Thermal Emittance. The thermal emittance and aged solar reflectance values of the roofing material must meet the requirements of § 110.8(i) and be labeled per §10-113 when the installation of a cool roof is specified on the CFIR.
§ 110.8(j):	Radiant Barrier. When required, radiant barriers must have an emittance of 0.05 or less and be certified to the Department of Consumer Affairs.
§ 150.0(a):	Roof Deck, Ceiling and Rafter Roof Insulation. Roof decks in newly constructed attics in climate zones 4 and 8-16 area-weighted average U-factor not exceeding U-0.184. Ceiling and rafter roofs minimum R-22 insulation in wood-frame ceiling, or area-weighted average U-factor must not exceed 0.043. Rafter roof alterations minimum R-19 or area-weighted average U-factor of 0.054 or less. Attic access doors must have permanently attached insulation using adhesive or mechanical fasteners. The attic access must be gasketed to prevent air leakage. Insulation must be installed in direct contact with a roof or ceiling which is sealed to limit infiltration and exfiltration, as specified in § 110.7, including but not limited to placing insulation either above or below the roof deck or on top of a drywall ceiling.
§ 150.0(b):	Loose-fill Insulation. Loose fill insulation must meet the manufacturer's required density for the labeled R-value.
§ 150.0(c):	Wall Insulation. Minimum R-13 insulation in 2x4 inch wood framing wall or have a U-factor of 0.102 or less, or R-20 in 2x6 inch wood framing or have a U-factor of 0.071 or less. Opaque non-framed assemblies must have an overall assembly U-factor not exceeding 0.102. Masonry walls must meet Tables 150.1-A or B. *
§ 150.0(d):	Raised-floor Insulation. Minimum R-19 insulation in raised wood framed floor or 0.037 maximum U-factor. *
§ 150.0(f):	Slab Edge Insulation. Slab edge insulation must meet all of the following: have a water absorption rate, for the insulation material alone without facings, no greater than 0.3 percent; have a water vapor permeance no greater than 2.0 perm per inch; be protected from physical damage and UV light deterioration; and, when installed as part of a heated slab floor, meet the requirements of § 110.8(g).
§ 150.0(g)(1):	Vapor Retarder. In climate zones 1 through 16, the earth/floor or unvented crawl space must be covered with a Class I or Class II vapor retarder. This requirement also applies to controlled ventilation ventral crawl space for buildings complying with the exception to § 150.0(c).
§ 150.0(g)(2):	Vapor Retarder. In climate zones 14 and 16, a Class I or Class II vapor retarder must be installed on the conditioned space side of all insulation in all exterior walls, vented attics, and unvented attics with air-permeable insulation.
§ 150.0(q):	Fenestration Products. Fenestration, including skylights, separating conditioned space from unconditioned space or outdoors must have a maximum U-factor of 0.45; or area-weighted average U-factor of all fenestration must not exceed 0.45.
Fireplaces, Decorative Gas Appliances, and Gas Log:	
§ 110.5(e)	Pilot Light. Continuously burning pilot lights are not allowed for indoor and outdoor fireplaces.
§ 150.0(e)(1):	Closable Doors. Masonry or factory-built fireplaces must have a closable metal or glass door covering the entire opening of the firebox.
§ 150.0(e)(2):	Combustion Intake. Masonry or factory-built fireplaces must have a combustion outside air intake, which is at least six square inches in area and is equipped with a readily accessible, operable, and light-tight damper or combustion-air control device. *
§ 150.0(e)(3):	Flue Damper. Masonry or factory-built fireplaces must have a flue damper with a readily accessible control. *
Space Conditioning, Water Heating, and Plumbing System:	
§ 110.0-§ 110.3:	Certification. Heating, ventilation, and air conditioning (HVAC) equipment, water heaters, showerheads, faucets, and all other regulated appliances must be certified by the manufacturer to the California Energy Commission.
§ 110.2(a):	HVAC Efficiency. Equipment must meet the applicable efficiency requirements in Table 110.2-A through Table 110.2-N. *
§ 110.2(b):	Controls for Heat Pumps with Supplementary Electric Resistance Heaters. Heat pumps with supplementary electric resistance heaters must have controls that prevent supplementary heater operation when the heating load can be met by the heat pump alone; and in which the cut-on temperature for compression heating is higher than the cut-on temperature for supplementary heating, and the cut-off temperature for compression heating is higher than the cut-off temperature for supplementary heating.
§ 110.2(c):	Thermostats. All heating or cooling systems not controlled by a central energy management control system (EMCS) must have a setback thermostat. *
§ 110.3(c)(3):	Insulation. Unfired service water heater storage tanks and solar water-heating backup tanks must have adequate insulation, or tank surface heat loss rating.
§ 110.3(c)(6):	Isolation Valves. Instantaneous water heaters with an input rating greater than 6.8 kBtu per hour (2 kW) must have isolation valves with hose bibbs or other fittings on both cold and hot water lines to allow for flushing the water heater when the valves are closed.


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	2022 Single-Family Residential Mandatory Requirements Summary
§ 150.0(k)(1)(C):	Screw based luminaires. Screw based luminaires must contain lamps that comply with Reference Joint Appendix JA8. *
§ 150.0(k)(1)(H):	Light Sources in Enclosed or Recessed Luminaires. Lamps and other separable light sources that are not compliant with the JA8 elevated temperature requirements, including marking requirements, must not be installed in enclosed or recessed luminaires.
§ 150.0(k)(1)(I):	Light Sources in Drawers, Cabinets, and Linen Closets. Light sources internal to drawers, cabinetry or linen closets are not required to comply with Table 150.0-A or B, except that they are rated to be no more than 5 watts of power, emit no more than 150 lumens, and are equipped with controls that automatically turn the lighting off when the drawer, cabinet or linen closet is closed.
§ 150.0(k)(2A):	Interior Switches and Controls. All forward phase out dimmers used with LED light sources must comply with NEMA SSL 7A.
§ 150.0(k)(2B):	Accessible Controls. Exhaust fans must be controlled separately from lighting systems. *
§ 150.0(k)(2A):	Accessible Controls. Lighting must have readily accessible wall-mounted controls that allow the lighting to be manually turned on and off. *
§ 150.0(k)(2B):	Multiple Controls. Controls must not bypass a dimmer, occupant sensor, or vacancy sensor function if the dimmer or sensor is installed in comply with § 150.0(k).
§ 150.0(k)(2C):	Mandatory Requirements. Lighting controls must comply with the applicable requirements of § 110.9.
§ 150.0(k)(2D):	Energy Management Control Systems. An energy management control system (EMCS) may be used to comply with dimming, occupancy, and control requirements if it provides the functionality of the specified control per § 110.9 and the physical controls specified in § 150.0(k)(2A).
§ 150.0(k)(2E):	Automatic Shut-off Controls. In bathrooms, garages, laundry rooms, utility rooms and walk-in closets, at least one installed luminaire must be controlled by an occupancy or vacancy sensor providing automatic off functionality. Lighting inside drawers and cabinets with opaque fronts or doors must have controls that turn the light off when the drawer or door is closed.
§ 150.0(k)(2F):	Dimmers. Lighting in habitable spaces (e.g., living rooms, dining rooms, kitchens, and bedrooms) must have readily accessible wall-mounted dimming controls that allow the lighting to be manually adjusted up and down. Forward phase out dimmers controlling LED light sources in these spaces must comply with NEMA SSL 7A.
§ 150.0(k)(2K):	Independent controls. Integrated lighting of exhaust fans shall be controlled independently from the fans. Lighting under cabinets or shelves, lighting in display cabinets, and switched outlets must be controlled separately from ceiling-installed lighting.
§ 150.0(k)(3A):	Residential Outdoor Lighting. For single-family residential buildings, outdoor lighting permanently mounted to a residential building, or to other buildings on the same lot, must have a manual on/off switch and either a photocell and motion sensor or automatic time switch control) or an astronomical time clock. An energy management control system that provides the specified control functionality and meets all applicable requirements may be used to meet these requirements.
§ 150.0(k)(4):	Internally illuminated address signs. Internally illuminated address signs must other comply with § 140.8 or consume no more than 5 watts of power.
§ 150.0(k)(5):	Residential Garages for Eight or More Vehicles. Lighting for residential parking garages for eight or more vehicles must comply with the applicable requirements for nonresidential garages in §§ 110.9, 130.0, 130.1, 130.4, 140.8, and 141.0.
Solar Readiness:	
§ 110.10(a)(1):	Single-family Residences. Single-family residences located in subdivisions with 10 or more single-family residences and where the application for a tentative subdivision map for the residences has been deemed complete and approved by the enforcement agency, which do not have a photovoltaic system installed, must comply with the requirements of § 110.10(b)(6).
§ 110.10(b)(1A):	Minimum Solar Zone Area. The solar zone must have a minimum total area as described below. The solar zone must comply with access, pathway, smoke ventilation, and spacing requirements as specified in Title 24, Part 9 or other parts of Title 24 or in any requirements adopted by a local jurisdiction. The solar zone total area must be comprised of areas that have no dimension less than 5 feet and are no less than 80 square feet each for buildings with roof areas less than 10,000 square feet or no less than 160 square feet each for buildings with roof areas greater than 10,000 square feet. For single-family residences, the solar zone must be located on the roof or overhang of the building and have a total area no less than 250 square feet. *
§ 110.10(b)(2):	Azimuth. All sections of the solar zone located on steep-sloped roofs must have an azimuth between 90-300° of true north.
§ 110.10(b)(3A):	Shading. The solar zone must not contain any obstructions, including but not limited to: vents, chimneys, architectural features, and roof mounted equipment.
§ 110.10(b)(3B):	Shading. Any obstruction located on the roof or any other part of the building that projects above a solar zone must be located at least twice the horizontal distance of the height difference between the highest point of the obstruction and the horizontal projection of the nearest point of the solar zone, measured in the vertical plane.
§ 110.10(b)(4):	Structural Design Loads on Construction Documents. For areas of the roof designated as a solar zone, the structural design loads for roof dead load and roof live load must be clearly indicated on the construction documents.
§ 110.10(c):	Interconnection Pathways. The construction documents must indicate: a location reserved for inverters and metering equipment and a pathway reserved for routing of conduit from the solar zone to the point of interconnection with the electrical service; and for single-family residences and central water-heating systems, a pathway reserved for routing plumbing from the solar zone to the water-heating system.
§ 110.10(d):	Documentation. A copy of the construction documents or a comparable document indicating the information from § 110.10(b)-(c) must be provided to the occupant.
§ 110.10(e)(1):	Main Electrical Service Panel. The main electrical service panel must have a minimum busbar rating of 200 amps.
§ 110.10(e)(2):	Main Electrical Service Panel. The main electrical service panel must have a reserved space to allow for the installation of a double pole circuit breaker for a future solar electric installation. The reserved space must be permanently marked as "For Future Solar Electric."
Electric and Energy Storage Ready:	


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	2022 Single-Family Residential Mandatory Requirements Summary
§ 110.5:	Pilot Lights. Continuously burning pilot lights are prohibited for natural gas: fan-type central furnaces; household cooking appliances (except appliances without an electrical supply voltage connection with pilot lights that consume less than 150 Btu per hour); and pool and spa heaters. *
§ 150.0(h)(1):	Building Cooling and Heating Loads. Heating and/or cooling loads are calculated in accordance with the ASHRAE Handbook, Equipment Volume, Applications Volume, and Fundamentals Volume; the SIMACNA Residential Comfort System Installation Standards Manual; or the ACCA Manual J using design conditions specified in § 150.0(h)(2).
§ 150.0(h)(3A):	Clearances. Air conditioner and heat pump outdoor condensing units must have a clearance of at least five feet from the outlet of any dryer.
§ 150.0(h)(3B):	Liquid Line Driller. Air conditioners and heat pump systems must be equipped with liquid line filter driers if required, as specified by the manufacturer's instructions.
§ 150.0(i)(1):	Water Piping, Solar Water-heating System Piping, and Space Conditioning System Line Insulation. All domestic hot water piping must be insulated as specified in § 609.11 of the California Plumbing Code. *
§ 150.0(j)(2):	Insulation Protection. Piping insulation must be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind as required by §120.3(b). Insulation exposed to weather must be water retardant and protected from UV light (no adhesive tapes). Insulation covering chilled water piping and refrigerant suction piping located outside the conditioned space must include, or be protected by, a Class I or Class II vapor retarder. Pipe insulation buried below grade must be installed in a waterproof and non-cushable casing or sleeve.
§ 150.0(n)(1):	Gas or Propane Water Heating Systems. Systems using gas or propane water heaters to serve individual dwelling units must designate a space at least 2.5' x 2.5' x 7' suitable for the future installation of a heat pump water heater, and meet electrical and plumbing requirements, based on the distance between this designated space and the water heater location, and a condensate drain no more than 2" higher than the base of the water heater.
§ 150.0(n)(3):	Solar Water-heating Systems. Solar water-heating systems and collectors must be certified and rated by the Solar Rating and Certification Corporation (SRCC), the International Association of Plumbing and Mechanical Officials, Research and Testing (IAPMO R&T), or by a listing agency that is approved by the executive director.
Ducts and Fans:	
§ 110.8(c)(3):	Ducts. Insulation installed on an existing space-conditioning duct must comply with § 604.0 of the California Mechanical Code (CMC). If a contractor installs the insulation, the contractor must certify to the customer, in writing, that the insulation meets this requirement. *
§ 150.0(m)(1):	CMC Compliance. All air-distribution system ducts and plenums must meet CMC §§ 601.0-605.0 and ANSI/SMACNA-006-2006 HVAC Duct Construction Standards Metal and Flexible 3rd Edition. Portions of supply-air and return-air ducts and plenums must be insulated to R-6.0 or higher; ducts located entirely in conditioned space as confirmed through field verification and diagnostic testing (RA3.1.4.3.8) do not require insulation. Connections of metal ducts and inner cores of flexible ducts must be mechanically fastened. Openings must be sealed with mastic, tape, or other duct-closure system that meets the applicable UL requirements, or aerosol sealant that meets UL 723. The combination of mastic and either mesh or tape must be used to seal openings greater than 1/4", if mastic or tape is used. Building cavities, air handler support platforms, and plenums designed or constructed with materials other than sealed sheet metal, duct board or flexible duct must not be used to convey conditioned air. Building cavities and support platforms may contain ducts; ducts installed in these spaces must not be compressed. *
§ 150.0(m)(2):	Factory-Fabricated Duct Systems. Factory-fabricated duct systems must comply with applicable requirements for duct construction, connections, and closures; joints and seams of duct systems and their components must not be sealed with cloth back rubber adhesive duct tapes unless such tape is used in combination with mastic and draw bands.
§ 150.0(m)(3):	Field-Fabricated Duct Systems. Field-fabricated duct systems must comply with applicable requirements for: pressure-sensitive tapes, mastics, sealants, and other requirements specified for duct construction.
§ 150.0(m)(7):	Backdraft Damper. Fan systems that exchange air between the conditioned space and outdoors must have backdraft or automatic dampers.
§ 150.0(m)(8):	Gravity Ventilation Dampers. Gravity ventilating systems serving conditioned space must have either automatic or readily accessible, manually operated dampers in all openings to the outside, except combustion inlet and outlet air openings and elevator shaft vents.
§ 150.0(m)(9):	Protection of Insulation. Insulation must be protected from damage due to sunlight, moisture, equipment maintenance, and wind. Insulation exposed to weather must be suitable for outdoor service (e.g., protected by aluminum, sheet metal, painted canvas, or plastic cover). Cellular foam insulation must be protected as above or painted with a water retardant and solar radiation-resistant coating.
§ 150.0(m)(10):	Porous Inner Core Flex Duct. Porous inner cores of flex ducts must have a non-porous layer or air barrier between the inner core and outer vapor barrier.
§ 150.0(m)(11):	Duct System Sealing and Leakage Test. When space conditioning systems use forced air duct systems to supply conditioned air to an occupiable space, the ducts must be sealed and duct leakage tested, as confirmed through field verification and diagnostic testing, in accordance with Reference Residential Appendix RA3.1.
§ 150.0(m)(12):	Air Filtration. Space conditioning systems with ducts exceeding 10 feet and the supply side of ventilation systems must have MERV 13 or equivalent filters. Filters for space conditioning systems must have a two inch depth or can be one inch if sized per Equation 150.0-A. Clean-filter pressure drop and labeling must meet the requirements in §150.0(m)(12). Filters must be accessible for regular service. Filter racks or grilles must use gaskets, sealing, or other means to close gaps around the inserted filters to and prevents air from bypassing the filter. *

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	2022 Single-Family Residential Mandatory Requirements Summary
§ 150.0(s):	Energy Storage System (ESS) Ready. All single-family residences must meet all of the following: Either ESS-ready interconnection equipment with backed up capacity of 60 amps or more and four or more ESS supplied branch circuits, or a dedicated raceway from the main service to a subpanel that supplies the branch circuits in § 150.0(s); at least four branch circuits must be identified and have their source collocated at a single panelboard suitable to be supplied by the ESS, with one circuit supplying the refrigerator, one lighting circuit near the primary exit, and one circuit supplying a sleeping room recessed ceiling outlet; main panelboard must have a minimum busbar rating of 225 amps; sufficient space must be reserved to allow future installation of a system isolation equipment transfer switch within 3' of the main panelboard, with raceways installed between the panelboard and the switch location to allow the connection of backup power source.
§ 150.0(t):	Heat Pump Space Heater Ready. Systems using gas or propane furnaces to serve individual dwelling units must include: A dedicated unobstructed 240V branch circuit wiring installed within 3' of the furnace with circuit conductors rated at least 30 amps with the blank cover identified as "240V ready," and a reserved main electrical service panel space to allow for the installation of a double pole circuit breaker permanently marked as "For Future 240V use."
§ 150.0(u):	Electric Cooktop Ready. Systems using gas or propane cooktop to serve individual dwelling units must include: A dedicated unobstructed 240V branch circuit wiring installed within 3' of the cooktop with circuit conductors rated at least 50 amps with the blank cover identified as "240V ready," and a reserved main electrical service panel space to allow for the installation of a double pole circuit breaker permanently marked as "For Future 240V use."
§ 150.0(v):	Electric Clothes Dryer Ready. Clothes dryer locations with gas or propane plumbing to serve individual dwelling units must include: A dedicated unobstructed 240V branch circuit wiring installed within 3' of the dryer location with circuit conductors rated at least 30 amps with the blank cover identified as "240V ready," and a reserved main electrical service panel space to allow for the installation of a double pole circuit breaker permanently marked as "For Future 240V use."

*Exceptions may apply.

	2022 Single-Family Residential Mandatory Requirements Summary
§ 150.0(m)(13):	Space Conditioning System Airflow Rate and Fan Efficacy. Space conditioning systems that use ducts to supply cooling must have a hole for the placement of a static pressure probe, or a permanently installed static pressure probe in the supply plenum. Airflow must be ≥ 350 CFM per ton of nominal cooling capacity, and an air-handling unit fan efficacy ≤ 0.46 watts per CFM for gas furnace air handlers and ≤ 0.58 watts per CFM for all others. Small duct high velocity systems must provide an airflow ≥ 250 CFM per ton of nominal cooling capacity, and an air-handling unit fan efficacy ≤ 0.82 watts per CFM. Field verification testing is required in accordance with Reference Residential Appendix RA3.3. *
Ventilation and Indoor Air Quality:	
§ 150.0(o)(1):	Requirements for Ventilation and Indoor Air Quality. All dwelling units must meet the requirements of ASHRAE Standard 62.2, Ventilation and Acceptable Indoor Air Quality in Residential Buildings subject to the amendments specified in § 150.0(o). *
§ 150.0(o)(1B):	Central Fan Integrated (CFI) Ventilation Systems. Continuous operation of CFI air handlers is not allowed to provide the whole-dwelling unit ventilation airflow required per §150.0(o)(1C). A motorized damper(s) must be installed on the ventilation duct(s) that prevents all airflow through the space conditioning duct system when the damper(s) is closed and controlled per §150.0(o)(1B)(iv). CFI ventilation systems must have controls that track outdoor air ventilation run time, and either open or close the motorized damper(s) for compliance with §150.0(o)(1C).
§ 150.0(o)(1C):	Whole-Dwelling Unit Mechanical Ventilation for Single-Family Detached and townhouses. Single-family detached dwelling units, and attached dwelling units not sharing ceilings or floors with other dwelling units, occupiable spaces, public garages, or commercial spaces must have mechanical ventilation airflow specified in § 150.0(o)(1C)-(ii).
§ 150.0(o)(1G):	Local Mechanical Exhaust. Kitchens and bathrooms must have local mechanical exhaust; nonenclosed kitchens must have demand-controlled exhaust system meeting requirements of §150.0(o)(1G)(i). Enclosed kitchens and bathrooms can use demand-controlled or continuous exhaust meeting §150.0(o)(1G)(iv). Airflow must be measured by the installer per §150.0(o)(1G)(v), and rated for sound per §150.0(o)(1G)(vi). *
§ 150.0(o)(1H)(i):	Airflow Measurement and Sound Ratings of Whole-Dwelling Unit Ventilation Systems. The airflow required per § 150.0(o)(1C) must be measured by using a flow hood, flow grid, or other airflow measuring device at the fan's inlet or outlet terminal(s) per Reference Residential Appendix RA3.7. Whole-Dwelling unit ventilation systems must be rated for sound per ASHRAE 62.2 §7.2 at no less than the minimum airflow rate required by §150.0(o)(1C).
§ 150.0(o)(2):	Field Verification and Diagnostic Testing. Whole-Dwelling Unit ventilation airflow, vented range hood airflow and sound rating, and HRV and ERV fan efficacy must be verified in accordance with Reference Residential Appendix RA3.7. Vented range hoods must be verified per Reference Residential Appendix RA3.7.4.3 to confirm if it is rated by HVI or AHAM to comply with the airflow rates and sound requirements per §150.0(o)(1G).
Pool and Spa Systems and Equipment:	
§ 110.4(a):	Certification by Manufacturers. Any pool or spa heating system or equipment must be certified to have all of the following: compliance with the Appliance Efficiency Regulations and listing in IMAEDUS; an on-off switch mounted outside of the heater that allows shutting off the heater without adjusting the thermostat setting; a permanent weatherproof plate or card with operating instructions; and must not use electric resistance heating. *
§ 110.4(b)(1):	Piping. Any pool or spa heating system or equipment must be installed with at least 36 inches of pipe between the filter and the heater, or dedicated suction and return lines, or built-in or built-up connections to allow for future solar heating.
§ 110.4(b)(2):	Covers. Outdoor pools or spas that have a heat pump or gas heater must have a cover.
§ 110.4(b)(3):	Directional Inlets and Time Switches for Pools. Pools must have directional inlets that adequately mix the pool water, and a time switch that will allow all pumps to be set or programmed to run only during off-peak electric demand periods.
§ 110.5:	Pilot Light. Natural gas pool and spa heaters must not have a continuously burning pilot light.
§ 150.0(p):	Pool Systems and Equipment Installation. Residential pool systems or equipment must meet the specified requirements for pump sizing, flow rate, piping, filters, and valves.
Lighting:	
§ 110.9:	Lighting Controls and Components. All lighting control devices and systems, ballasts, and luminaires must meet the applicable requirements of § 110.9. *
§ 150.0(k)(1A):	Luminaire Efficacy. All installed luminaires must meet the requirements in Table 150.0-A, except lighting integral to exhaust fans, kitchen range hoods, bath vanity mirrors, and garage door openers; navigation lighting less than 5 watts; and lighting internal to drawers, cabinets, and linen closets with an efficacy of at least 45 lumens per watt.
§ 150.0(k)(1B):	Screw based luminaires. Screw based luminaires must contain lamps that comply with Reference Joint Appendix JA8. *
§ 150.0(k)(1C):	Recessed Downlight Luminaires in Ceilings. Luminaires recessed into ceilings must not contain screw based sockets, must be airtight, and must be sealed with a gasket or caulk. California Electrical Code § 410.116 must also be met.
§ 150.0(k)(1D):	Light Sources in Enclosed or Recessed Luminaires. Lamps and other separable light sources that are not compliant with the JA8 elevated temperature requirements, including marking requirements, must not be installed in enclosed or recessed luminaires.
§ 150.0(k)(1E):	Blank Electrical Boxes. The number of electrical boxes that are more than five feet above the finished floor and do not contain a luminaire or other device shall be no more than the number of bedrooms. These boxes must be served by a dimmer, vacancy sensor control, low voltage wiring, or fan speed control.
§ 150.0(k)(1F):	Lighting Integral to Exhaust Fans. Lighting integral to exhaust fans (except when installed by the manufacturer in kitchen exhaust hoods) must meet the applicable requirements of § 150.0(k).

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BAJ GRAPHIC DESIGN

9743 WHITE PINE WAY, ELK GROVE, CA 95624
Email: helennguyen3689@gmail.com
Tell: (916) 526-5881 & (408) 876-8402

Date: APRIL 2025

Scale: AS SHOWN

Drawn: LUYEN HONG NGUYEN

Signed: *Thuy*

STAMPED FROM CITY

REVISION

DATE

BY

SHEET NO:

LOW - RISE - MANDATORY
MEASURES- SUMMARY

CHUN XIONG LUO'S RESIDENCE

5539 36TH AVE, SACRAMENTO, CA 95824

A-8



BAJ GRAPHIC DESIGN

9743 WHITE PINE WAY, ELK GROVE, CA 95624
Email: helennguyen3689@gmail.com
Tell: (916) 526-5881 & (408) 876-8402

Date: APRIL 2025

Scale: AS SHOWN

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Signed: *Thuy*

STAMPED FROM CITY

FASTENING SCHEDULE PER
CRC TABLE R602.3 (1)
CHUN XIONG LUO'S RESIDENCE
5539 36TH AVE, SACRAMENTO, CA 95824

REVISION	DATE	BY

SHEET NO:

A-9

RESIDENTIAL NAILING SCHEDULE TABLE R602.3(1) FASTENER SCHEDULE FOR STRUCTURAL MEMBERS

ITEM	DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER ^{a, b, c}	SPACING OF FASTENERS
Roof			
1	Blocking between ceiling joists, rafters or trusses to top plate or other framing below	4-8d box (2 1/2" x 0.113") or 3-8d (2 1/2" x 0.113") or 3-10d box (3" x 0.128") or 3-7" x 0.131" nails	Toe nail
	Blocking between rafters or truss not at the wall top plates, to rafter or truss	2-8d common (2 1/2" x 0.131") or 2-3" x 0.131" nails	Each end toe nail
	Flat blocking to truss and web filler	1-6d common (3 1/2" x 0.162") or 2" x 0.131" nails	End nail
2	Ceiling joists to plate,	4-8d box (2 1/2" x 0.113") or 3-8d (2 1/2" x 0.113") or 3-10d box (3" x 0.128") or 3-7" x 0.131" nails	Per joist, toe nail
3	Ceiling joists not attached to parallel rafter, laps over partitions, face (see Sections R802.5.2 and Table R802.5.2(1))	4-10d box (3" x 0.128") or 3-1-6d common (3 1/2" x 0.162") or 4-3" x 0.131" nails	Face nail
4	Ceiling joist attached to parallel rafter (heel joint) (see Sections R802.5.2 and Table R802.5.2(1))	Table R802.5.2(1)	Face nail
5	Collar tie to rafter, face nail	4-10d box (3" x 0.128") or 3-1-6d common (3" x 0.148") or 4-3" x 0.131" nails	Face nail each rafter
6	Rafter or roof truss to plate	3-1-6d box nails (3 1/2" x 0.135") or 3-10d common nails (3" x 0.148") or 4-10d box (3" x 0.128") or 4-3" x 0.131" nails	2 toe nails on one side and 1 toe nail on opposite side of each rafter or truss
7	Rafter rafters to ridge, valley or hip rafters or roof rafter to minimum 2" ridge beam	4-1-6d (3 1/2" x 0.135") or 3-1-6d common (3" x 0.148") or 4-10d box (3" x 0.128") or 4-3" x 0.131" nails	Toe nail
		3-1-6d box (3 1/2" x 0.135") or 3-1-6d common (3" x 0.148") or 3-10d box (3" x 0.128") or 3-3" x 0.131" nails	End nails
Wall			
8	Stud to stud (not at braced wall panels)	1-6d common (3 1/2" x 0.162") or 10d box (3" x 0.128") or 3" x 0.131" nails	24" o. c. face nail
	Stud to stud and sheathing studs at intersecting wall corners (at braced wall panels)	1-6d box (3 1/2" x 0.135") or 3" x 0.131" nails	12" o. c.
9	Stud to stud and sheathing studs at intersecting wall corners (at braced wall panels)	1-6d common (3 1/2" x 0.162")	16" o. c. face nail
10	Built-up header (2" to 2" header with 1/2" spacer	1-6d common (3 1/2" x 0.162") or 1-6d box (3 1/2" x 0.135")	16" o. c. each edge face nail
11	Continuous header to stud	4-8d box (2 1/2" x 0.113") or 4-8d common (2 1/2" x 0.131") or 4-10d box (3" x 0.128")	Toe nail
12	Adjacent full-height stud to end of header	4-1-6d box (3 1/2" x 0.135") or 3-1-6d common (3 1/2" x 0.162") or 4-10d box (3" x 0.128") or 4-3" x 0.131" nails	End nail
13	Top plate to top plate	1-6d common (3 1/2" x 0.162")	16" o. c. face nail

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		10d box (3" x 0.128"); or 3" x 0.131" nails	24" o.c. face nail at top and bottom staggered on opposite sides	
		And: 2-20d common (4" x 0.192); or 2-10d box (3" x 0.128"); or 3-3" x 0.131" nails	Face nail at ends and at each splice	
29	Ladder strip supporting joists or rafters	4-1-6d box (3 1/2" x 0.135"); or 3-1-6d common (3 1/2" x 0.162); or 4-10d box (3" x 0.128); or 4-3" x 0.131 nails	At each joist or rafter, face nail	
30	Bridging of blocking to joist, rafter or truss	2-10d (3" x 0.128"); or 2-8d common (2 1/2" x 0.131"); or 2-3" x 0.131" nails	Each end, toe nail	
ITEM	DESCRIPTION OF BUILDING MATERIALS	DESCRIPTION OF FASTENER ^{a, b, c}	Edges (inches)	Intermediate supports ^a (inches)
SPACING OF FASTENERS				
Wood structural panels, subfloor, roof and interior wall sheathing to framing and partititionboard wall sheathing to framing (see Table R602.3(2) for wood structural panel exterior wall sheathing to wall framing)				
31	1/2" - 1/2"	6d common or deformed (2" x 0.113" x 0.264" head); or 2 1/2" x 0.113" x 0.264" head nail (subfloor, wall)	6	6'
		8d common nail (2 1/2" x 0.131"); or RSRS-D1; (25/32" x 0.113") nail proof ^d	6	6'
32	1/2" - 1/4"	8d common (2 1/2" x 0.131") nail (subfloor, wall)	6	12
		8d common nail (2 1/2" x 0.131") nail (roof); or RSRS-D1; (25/32" x 0.113") nail proof ^d	6	6'
		Deformed 25/32" x 0.113" x 0.264" head (wall or subfloor)	6	12
33	1/2" - 1/4"	10d common (3" x 0.148") nail; or (2 1/2" x 0.131" x 0.281") head deformed nail	6	12
Other wall sheathing				
34	1/2" structural cellulose fiberboard sheathing	1 1/2" x 0.120" galvanized roofing nail, 1/4" head diameter or 1 1/2" long 16 ga. Staple with 7/16" or 1" crown	3	6
35	3/2" structural cellulose fiberboard sheathing	1 1/2" x 0.120" galvanized roofing nail, 1/4" head diameter or 1 1/4" long 16 ga. Staple with 7/16" or 1" crown	3	6
36	1/4" gypsum sheathing ¹	1 1/2" x 0.120" galvanized roofing nail, 1/4" head diameter, or 1 1/2" long 16 ga. staple galvanized, 1 1/2" long 7/16" or 1" crown or 1 1/4" screws, Type W or 5	7	7
37	1/4" gypsum sheathing ¹	1 1/2" x 0.120" galvanized roofing nail, 1/4" head diameter, or 1 1/2" long 16 ga. staple galvanized, 1 1/2" long 7/16" or 1" crown or 1 1/4" screws, Type W or 5	7	7
Wood structural panels, combination subfloor underlayment to framing				
38	1/4" and less	Deformed (2" x 0.113") or Deformed (2" x 0.120") nail; or 8d common (2 1/2" x 0.131") nail	6	12
39	7/8" - 1"	8d common (2 1/2" x 0.131") nail or Deformed (2" x 0.113") or Deformed (2 1/2" x 0.120") nail	6	12
40	1 1/4" - 1 1/2"	10d common (3" x 0.148") nail or Deformed (2" x 0.113") or Deformed (2 1/2" x 0.120") nail	6	12

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 mile per hour = 0.447 m/s; 1 Ksi = 6.895 MPa.

a. Nails are smooth-common, box or deformed shanks except where otherwise stated. Nails used for framing and sheathing connections shall have minimum average bending yield strengths as shown: 80 ksi for shank diameter of 0.192 inch (20d common nail), 90 ksi for shank diameters larger than 0.142 inch but not larger than 0.177 inch, and 100 ksi for shank diameters of 0.142 inch or less. Connections using nails and staples of other materials such as stainless steel, shall be designed by accepted engineering practice or approved under Section R104.1.

b. RSRS-D1 is a Roof Sheathing Ring Shank nail meeting the specifications in ASTM F1667.

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		10d box (3" x 0.128") or 3" x 0.131" nails	12" o. c. face nail
14	Double top plate splice	8-1-6d common (3 1/2" x 0.162") or 12-1-6d box (3 1/2" x 0.135") or 12-10d box (3" x 0.128") or 12-3" x 0.131" nails	Face nail on each side of end joint (minimum 24" lap splice length each side of end joint)
15	Bottom plate to joist, rim joist, band joist or blocking (not at braced wall panels)	1-6d common (3 1/2" x 0.162")	16" o. c. face nail
		1-6d box (3 1/2" x 0.135") or 3" x 0.131" nails	12" o. c. face nail
Roof			
ITEM	DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER ^{a, b, c}	SPACING OF FASTENERS
16	Bottom plate to joist, rim joist, band joist or blocking (w/ braced wall panels)	3-1-6d box (3 1/2" x 0.135") or 2-1-6d common (3 1/2" x 0.162") or 4-3" x 0.131" nails	16" o. c. face nail
		4-8d box (2 1/2" x 0.137") or 3-1-6d box (3 1/2" x 0.135") or 4-8d common (2 1/2" x 0.131") or 4-10d box (3" x 0.128") or 4-3" x 0.131" nails	Toe nail
17	Top or bottom plate to stud	3-1-6d box (3 1/2" x 0.135") or 2-1-6d common (3 1/2" x 0.162") or 3-10d box (3" x 0.128") or 3-3" x 0.131" nails	End nail
18	Top plates, laps at corners and intersections	3-10d box (3" x 0.128") or 2-1-6d common (3 1/2" x 0.162") or 3-3" x 0.131" nails	Face nail
19	1" brace to each stud and plate	3-8d box (2 1/2" x 0.113") or 2-8d common (2 1/2" x 0.131") or 20 10d box (3" x 0.128") or 2 staples 1 1/2" x 4"	Face nail
20	1" x 6" sheathing to each bearing	3-8d box (2 1/2" x 0.113") or 2-8d common (2 1/2" x 0.131") or 2-10d box (3" x 0.128") or 2 staples 1" crown, 16 ga., 1 1/4" long	Face nail
		3-8d box (2 1/2" x 0.113") or 3-8d common (2 1/2" x 0.131") or 3-10d box (3" x 0.128") or 3 staples 1" crown, 16 ga., 1 1/4" long	
21	1" x 8" and wider sheathing to each bearing	Wider than 1" x 8" 4-8d box (2 1/2" x 0.113") or 3-8d common (2 1/2" x 0.131") or 3-10d common (2 1/2" x 0.128") or 4 staples 1" crown, 16 ga., 1 1/4" long	Face nail
Floor			
22	Joist to sill, top plate or girder	4-8d box (2 1/2" x 0.113") or 3-8d common (2 1/2" x 0.131") or 3-10d box (3" x 0.128") or 3-3" x 0.131" nails	Toe nail
23	Rim joist, band joist or blocking to sill or top plate (roof application also)	8d common (2 1/2" x 0.131") or 10d box (3" x 0.128") or 3" x 0.131" nails	4" o. c. toe nail
24	1" x 6" subfloor or less to each joist	3-8d box (2 1/2" x 0.113") or 2-8d common (2 1/2" x 0.131") or 3-10d box (3" x 0.128") or 2 staples 1" crown, 16 ga., 1 1/4" long	Face nail
25	2" subfloor to joist or girder	3-1-6d box (3 1/2" x 0.135") or 2-1-6d common (3 1/2" x 0.162")	Blind end face nail
26	2" plank (plank & beam - floor & roof)	3-1-6d box (3 1/2" x 0.135") or 2-1-6d common (3 1/2" x 0.162")	At each bearing
27	Band or rim joist to joist	4-10 box (3" x 0.128") or 4-3" x 0.131" nails, or 4-3" x 14 ga. staples, 7/16" crown	End nail
28	Built-up girders and beams (sawn timber types)	20d common (4" x 0.192"); or	Nail each layer as follows: 32" o. c. at top and bottom and staggered.

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f. For wood structural panel roof sheathing attached to gable end roof framing and to intermediate supports within 48 inches of roof edges and ridges, nails shall be spaced at 4 inches on center where the ultimate design wind speed is greater than 130 mph in Exposure B or greater than 110 mph in Exposure C. g. Gypsum sheathing shall conform to ASTM C 1396 and shall be installed in accordance with ASTM C 1280 or GA 353. Fiberboard sheathing shall conform to ASTM C 208.

h. Spacing of fasteners on floor sheathing panel edges applies to panel edges supported by framing members and required blocking and at floor perimeters only. Spacing of fasteners on roof sheathing panel edges applies to panel edges supported by framing members and required blocking. Blocking of roof or floor sheathing panel edges perpendicular to the framing members need not be provided except as required by other provisions of this code. Floor perimeter shall be supported by framing members or solid blocking.

i. Where a rafter is fastened to an adjacent parallel ceiling joist in accordance with this schedule, provide two toe nails on one side of the rafter and toe nails from the ceiling joist to top plate in accordance with this schedule. The toe nail on the opposite side of the rafter shall not be required.

♦ The fastener schedule provides minimum nailing requirements (i.e. size, spacing) for connecting building elements used in wood framed construction. For wood structural panels, both edge nailing and intermediate (field) nailing are specified. In addition to the nailing for wood structural panels, fasteners are specified for gypsum wall sheathing, cellulose fiberboard wall sheathing and combination subfloor underlayment.

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