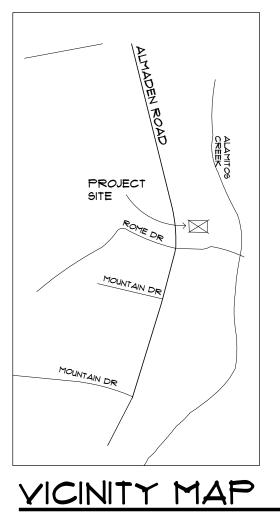


NOT TO SCALE

Santa Clara County REBUILD Determination and Points Allocation

. Existing Residence					
		New/modified or	Ratio	Maximum	Resulting
1a Footings ³	Existing L.F. ²	Removed L.F.		Points	Points
	908.75	0	0.00		
		Replaced/	Ratio		
1b Slab - structural slabs and basement areas	Existing Area	Modified Area			
	600	0	0.00		
Subtotal				25	0.00
		New/modified or	Ratio	Maximum	Resulting
2 Walls - interior and exterior	Existing L.F. ²	Removed L.F.		Points	Points
in linear feet ⁴	908.75	171.45	0.19	50	9.43
		new, replaced,			
		altered or removed	Ratio	Maximum	Resulting
3 Roof ⁵	Existing S.F.	Roof S.F.		Points	Points
	3693	104	0.03	25	0.70
Existing Residence Subtotal					10.14
- Proposed Additions					
			Ratio 1 pt/		Sub-Total
	Area in S.F.		40 S.F. 8		Points
First floor and upper story additions ^{6,7}	10		1.00		1
dudicinis	10		1.00		
. Cumulative rebuild points from permits issue	d within last 2 ye	ars:			C
OTAL POINT ALLOCATION ⁹					11.14

REBUILD CALCULATIONS



<u>SHEET INDEX</u>

A-1	SITE PLAN/GENERAL INFO
A1.1	CLEAN BAY SHEET
A-2	GENERAL NOTES
A-3	UPPER FLOOR PLAN
A-4	ELEVATIONS
A-5	ELEVATION/ SECTION
A-6	ROOF PLAN/ RCP
ABD-1/D-2	AS BUILT/ DEMO FLOOR PLAT
E1	ELECTRICAL
G1	CAL GREEN
50.0/52.0	STRUCTURAL
T-1/T-3	ENERGY

20451 ALM

6

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C

m Z

70

B

B WATER

NOT TO SCALE

SPECIAL NOTES TO OWNER

SITE DRAINAGE

ALL DRAINAGE FACILITIES SHOULD BE DILIGENTLY MAINTAINED DURING THE LIFE OF THE STRUCTURE - DIRECTING SURFACE AND SUBSURFACE WATERS AWAY FROM THE BUILDING TO ENSURE THAT THE FOUNDATIONS WILL NOT BE ADVERSELY AFFECTED BY SUCH WATER AND IN ADDITION, TO PREVENT WATER INTRUSION INTO THE BUILDING. THIS IS PARTICULARLY IMPORTANT DURING PERIODS OF PROLONGED AND INTENSE RAINFALL.

<u>CONCRETE</u>

UNDER NORMAL CONDITIONS, AND FOR CONVENTIONAL BUILDINGS SUCH AS THE SUBJECT MATTER, REINFORCED CONCRETE DEVELOPS CRACKS. THE CRACKS ARE DUE TO INHERENT SHRINKAGE OF CONCRETE, CREEP, AND RESTRAINING EFFECTS OF WALLS AND OTHER STRUCTURAL ELEMENTS TO WHICH THE BEAMS/SLABS ARE TIED.

THE CRACKS ARE NORMALLY COSMETIC, AND THE SLAB MAINTAINS ITS SERVICEABILITY AND STRENGTH REQUIREMENTS. IT IS POSSIBLE THAT A NUMBER OF HAIRLINE CRACKS, WHICH WOULD NORMALLY BE SPREAD OVER A WIDE AREA, WILL INTEGRATE INTO A SINGLE CRACK WITH A WIDTH EXCEEDING 0.01 INCH. IT IS EMPHASIZED THAT, ALTHOUGH SPECIAL EFFORT IS MADE TO REDUCE THE POTENTIAL CAUSES AND NUMBER OF SUCH CRACKS, IT IS NOT PRACTICAL TO PROVIDE TOTAL ARTICULATION BETWEEN THE FLOOR SLAB SYSTEM AND ITS SUPPORTS, AND THEREBY ACHIEVE COMPLETE INHIBITION

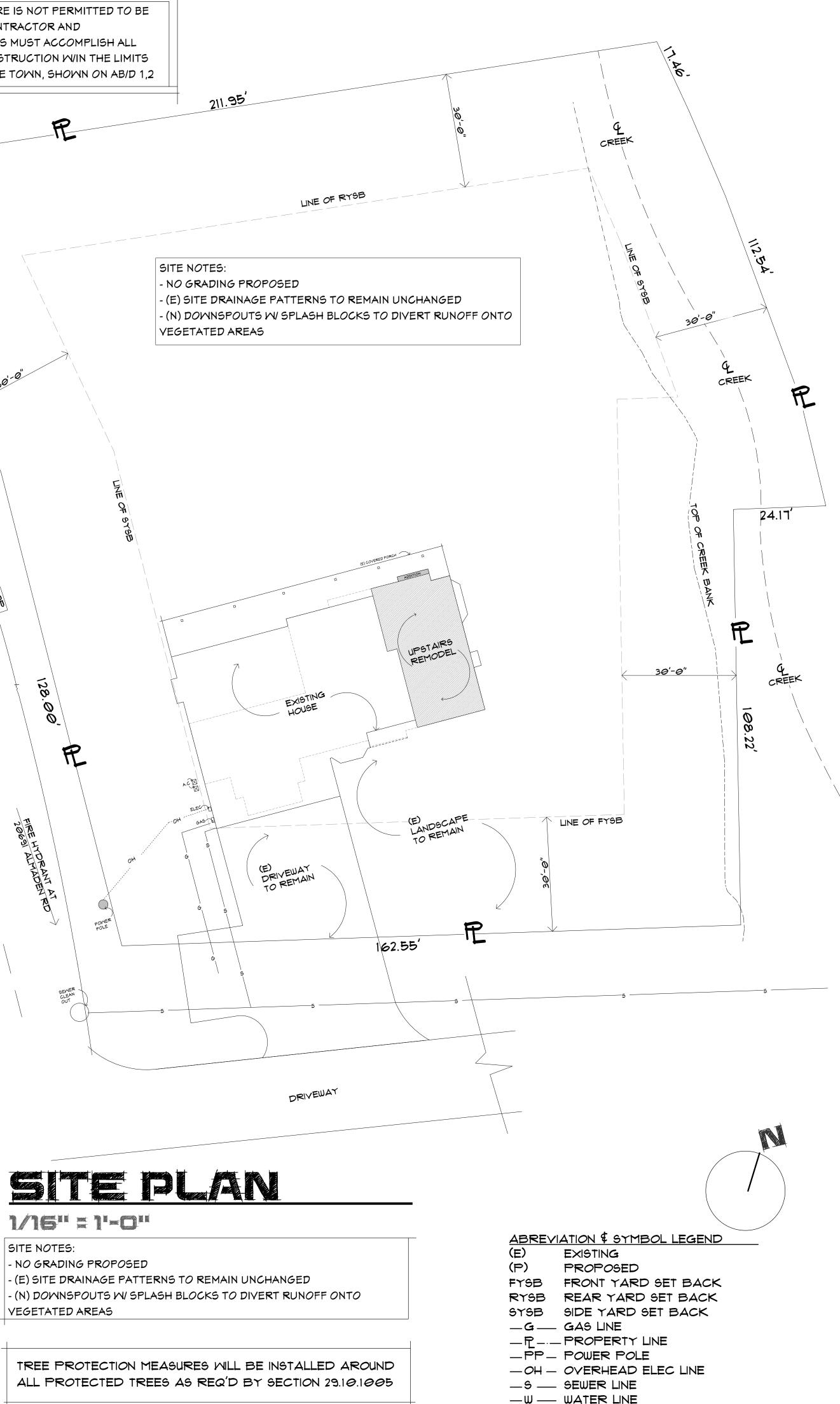
MOST SUCH CRACKS DEVELOP OVER THE FIRST TWO YEARS OF THE LIFE OF THE FLOOR SLAB SYSTEM. CRACKS THAT ARE WIDER THAN 0.01 INCH MAY NEED TO BE PRESSURE EPOXIED

THE OBJECT OF THE JOINTS PROVIDED IS TO ALLOW MOVEMENT. MOVEMENT DUE TO CREEP AND SHRINKAGE MAY NOT BE NOTICEABLE AT THE JOINTS UP TO TWO YEARS AFTER CONSTRUCTION BEYOND WHICH MOVEMENTS DUE TO VARIATION IN TEMPERATURE WILL PERSIST.

EXPANSION AND CONTRACTION THE EFFECTS OF NORMAL EXPANSIONS AND CONTRACTION CAN BE SEEN IN SUCH THINGS AS SMALL CRACKS IN THE FOUNDATION, DRYWALL, CEMENT, PLASTER, AND PAINT - ESPECIALLY WHERE MOLDINGS MEET AT MITERED CORNERS, WHERE TILE GROUT MEETS THE TUB OR SINK, ETC. SHRINKAGE OF WOOD IN YOUR HOME IS ALSO INEVITABLE. THIS WILL BE MOST NOTICEABLE DURING THE FIRST YEAR FOLLOWING COMPLETION OF THE CONSTRUCTION, BUT TYPICALLY CONTINUES INTO THE SECOND YEAR.

THESE CONSTRUCTION DOCUMENTS MAKE EVERY ATTEMPT TO MINIMIZE CRACKS CAUSED BY EXPANSION AND CONTRACTION.

THE (E) STRUCTURE IS NOT PERMITTED TO BE DEMOLISHED. CONTRACTOR AND SUBCONTRACTORS MUST ACCOMPLISH ALL ASPECTS OF CONSTRUCTION W/IN THE LIMITS PERMITTED BY THE TOWN, SHOWN ON AB/D 1,2



OWNERS

JOE & CHERYL DERMER 20530 ALMADEN RD, SAN JOSE, CA 95120 408-592-1619

PROJECT DESCRIPTION

A 818 SF REMODEL OF MASTER BEDROOM & LAUNDRY ROOM

SITE DATA

APN	742-05-013
ZONING	COUNTY
LOT SIZE	42688.8 SF

EXISTING HOUSE AREA

(E)LOWER FLOOR LEVEL	2378.0 SF
(E)UPPER FLOOR LEVEL	2335.9 SF
(E)TOTAL LIVING AREA:	4713.9 SF

ADDED LIVING	<u>10.0 SF</u>
(N)TOTAL LIVING AREA:	4723.9 51

(E) GARAGE	750.7 SF
REMODEL AREA	
MASTER BEDRM	759 SF
LAUNDRY AREA	<u>59 SF</u>
TOTAL	818 SF

APPLICABLE BUILDING CODES

ALL WORK SHALL COMPLY WITH THE CURRENTLY ADOPTED 2019 CRC, CMC, CPC, CEC, CAL-GREEN AS AMENDED BY THE STATE OF CALIFORNIA AND THE TOWN OF LOS GATOS

GENERAL CONTRACTOR NOTES

1 DUE DILLIGENCE: CONTRACTOR SHALL - VISIT SITE AND REVIEW ALL DRAWINGS. INCLUDE DEMOLITION AS REQUIRED TO COMPLETE THE NEW WORK INCLUDING ANY CONSTRUCTION, PLUMBING,

ELECTRICAL, MECHANICAL AND THE FINISH TRADES TO COMPLETE THE PROJECT. VERIFY WITH OWNER ANY ITEMS TO BE SALVAGED PRIOR TO START OF WORK.

/ERIFY WITH OWNER A LIST OF SPECIFICATIONS AS IN - CABINETS, DOORS, JAMBS, FINISHES, PAINTING, HARDWARE, FLOORS, FIXTURES, COUNTERTOPS, LIGHTING AND PLUMBING FIXTURES OR APPLIANCES.

BE RESPONSIBLE FOR VERIFICATION OF ALL JOB CONDITIONS, DIMENSIONS AND DETAILS AS SHOWN ON THE DRAWINGS ENSURE ALL ATTACHMENTS AND CONNECTIONS SHALL MEET OR EXCEED LOCAL AND/OR NATIONAL CODES AND IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND/OR SUB-CONTRACTORS TO VERIFY

2 SCOPE OF CONTRACT. THE SCOPE OF THIS CONTRACT IS TO INCLUDE ALL LABOR MATERIALS FOURMENT SCAFEOLDING AND HANDLING OF MATERIALS FOR PROPER SERVICE INCIDENTAL TO PERFORMING AND COMPLETING THE WORK OUTLINED IN THE DRAWINGS AND SPECIFICATIONS. THE CONTRACTOR SHALL O ON THE PLAN, NECESARY FOR THE PROPER COMPLETION OF THE WORK PER INTENT OF THE PL TO THE SUBCONTRACTORS THE JURISDICTION OF THIER TRADE AS IT APPLIES TO THIS JOB. ALL WORK PERSONS AND SUBCONTRACTORS SHALL BE SKILLED IN THEIR INDIVIDUAL TRADES. 3. EXISTING CONDITIONS: THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMITTING A PROPOSAL FOR THE WORK AND SHALL NOT START ANY WORK UNTIL

SATISFIED THAT THE ACTUAL SITE CONDITIONS ARE AS SET FORTH ON THE DRAWINGS, ONCE HAVING STARTED WORK, IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO MAKE WHATEVER ADJUSTMENTS, CORRECTIONS, OR REPAIRS AS REQUIRED TO COMPLETE THE PROJECT.

4. PERMITS & INSPECTIONS: THE OWNER SHALL PAY NET FOR ALL PERMITS AND FEES REQUIRED BY THE LOCAL AGENCY. THE CONTRACTOR SHALL SECURE AND VERIFY ALL INSPECTIONS WHEN REQUIRED AS PER LOCAL CITY AND /OR COUNTY REQUIREMENTS. INCLUDING ANY INSPECTIONS SPECIAL OR OTHERWISE THAT ARE REQUIRED BY THE BUILDING CODES PER LOCAL BUILDING DEPARTMENT. 5. CODES: ALL WORK UNDER THIS CONTRACT SHALL BE IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF ALL APPLICABLE CODES AND LOCAL ORDINANCES.

ALL PUBLIC AGENCIES HAVING JURISDICTION. INCLUDING THE LATEST UNIFORM BUILDING CODE. STATE, COUNTY AND LOCAL REQUIREMENTS. 6. INSURANCE, SAFETY AND WORKMANSHIP: THE CONTRACTOR SHALL CARRY HIS/HER OWN WORKMAN'S COMPENSATION AND LIABILITY INSURANCE AS REQUIRED. THE CONTRACTOR ALONE IS RESPONSIBLE FOR SITE SAFETY. ALL WORK SHALL BE DONE BY PERSONS SKILLED IN THEIR RESPECTIVE TRADES AND IN ACCORDANCE WITH THE BEST RECOGNIZED PRACTICE FOR EACH TRADE ALL WORKMANSHIP SHALL BE IN STRICT ACCORDANCE WITH THE MANUFACTURER'S DIRECTONS. WHERE APPLICABLE, WORKMANSHIP THAT DOES NOT COMPLY WITH THE OBVIOUS INTENT OF THE CONTRACT SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. 7. DIMENSIONS & DISCREPENCIES: THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, CONDITIONS AND ELEVATIONS AT THE JOB SITE AND BRING ANY DISCREPANCIES TO THE ARCHITECT'S ATTENTION VERIFY DIMENSIONED ARCHITECTURAL PLANS AS THEY RELATE TO THE STRUCTURAL DIMENSIONS CONTROLLED BY OR RELATING TO PLUMBING. ELECTRICAL AND MECHANICAL CONSTRUCTION, DO NOT SCALE STRUCTURAL DRAWINGS, VERIFY TYPE AND SIZE OF METAL WORK

AGAINST APPROPRIATE MEMBER SIZE BFORE ORDERING HARDWARE. VERIFY STRUCTURAL DIMENSIONS CONTROLLED BY OR RELATING TO PLUMBING, ELECTRICAL AND MECHANICAL CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE CONRACTOR TO NOTIFY THE OWNER, ARCHITECT AND ENGINEER OF ERRORS OR OMISSIONS ON THE PLANS, WHICH MIGHT AFFECT THE COMPLETION OF THE PROJECT. 8. PRECEDENCE & SUBSITITUTION: IN GENERAL, LARGER SCALE DETAILS SHALL TAKE PRECEDENCE OVER SMALLER SCALE DETAILS. IN CASE OF DISCREPENCIES

OR WHERE THE INTENT OF THE PLANS OR SPECIFICATIONS IS NOT CLEAR, REQUEST CLARIFICATION BEFORE PROCEEDING WITH THE WORK, WHERE A NAME BRAND OR MANUFACTURER'S PRODUCT IS SPECIFIED, IT IS USED AS A MEASURE OF THE QUALITY, UTILITY OR AS A STANDARD. PRODUCTS OF SIMILAR CONSTRUCTION AND/OR EQUAL VALUE CAN BE OFFERED FOR THE OWNER'S APPROVAL. 9. CHANGE ORDER: MAKE NO DEVIATION FROM THE PLANS OR SPECIFICANS WITHOUT NOTIFICATION TO THE OWNER, ARCHITECT AND ENGINEER. OBTAIN WRITTEN

AUTHORIZATION FOR CHANGES INVOLVING COST. PRIOR TO COMMENCING WITH ANY CHANGES 10: CLEAN UP: DURING EXECUTION OF THE WORK, THE JOB SITE SHALL BE KEPT CLEAN AT ALL TIMES. UPON COMPLETION, WINDOWS SHALL BE WASHED AND FLOORS SWEPT. ALL CONSTRUCTION DEBRIS SHALL BE REMOVED AND THE PROJECT SITE RAKED CLEAN AND LEVEL. ALL CLEANING OF CONCRETE, STUCCO AND PAINTING TOOLS, ETC TO BE DONE AT A PLACE DESIGNATED BY THE OWNER.

LETTERS, EVIDENCE, FORMS AND SCHEDULES

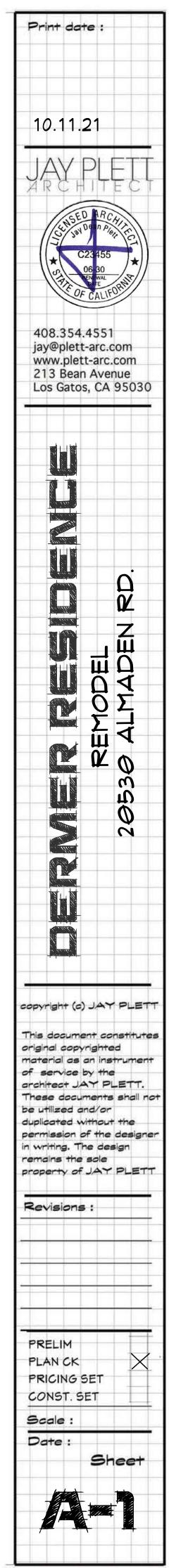
1. BUILDER MUST PROVIDE THE HOMEOWNER WITH A LUMINAIRE SCHEDULE (AS REQUIRED IN TITLE 24 CALIFORNIA CODE OF REGULATIONS, PART 1, §10-103(B)) THAT INCLUDES A LIST OF LAMPS INSTALLED IN THE LUMINARIES. 2. HERS VERIFICATION REQUIRED PER TITLE 24 ANALYSIS, SHEET T-1, PAGE 2. PROVIDE EVIDENCE OF THIRD PARTY VERIFICATION (HERS) TO PROJECT BUILDING INSPECTOR PRIOR TO FINAL INSPECTION

3. A COMPLETED CF2R-LTG-01-E FORM MUST BE PROVIDED TO THE CITY BUILDING INSPECTOR PRIOR TO FINAL INSPECTION. 4. PRIOR TO FINAL INSPECTION, A LETTER SIGNED BY THE GENERAL CONTRACTOR OR THE OWNER/BUILDER (FOR ANY OWNER/BUILDER PROJECTS) MUST BE PROVIDED TO THE TOWN OF LOS GATOS BUILDING OFFICIAL CERTIFYING THAT ALL ADHESIVES. SEALANTS, CAULKS, PAINTS. COATINGS, AEROSOL PAINTS, AEROSOL COATINGS, CARPET SYSTEMS (INCLUDING CARPETING, CUSHION AND ADHESIVE), RESILIENT FLOORING SYSTEMS, AND COMPOSITE WOOD PRODUCTS INSTALLED ON THIS PROJECT ARE WITHIN THE EMISSION LIMITS SPECIFIED IN CGBSC SECTION 4.504.

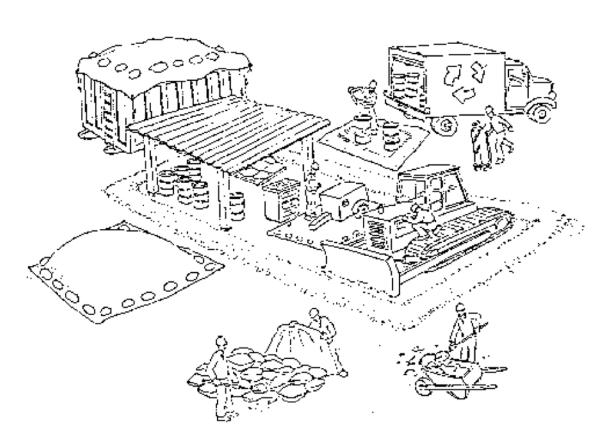
ALL ELECTRICAL, PLUMBING AND
MECHANICAL INSTALLATIONS SHALL BE
DESIGN BUILD BY THE SPECIFIC
SUBCONTRACTOR(S) AND SHALL IN ANY
CASE CONFORM TO THE LATEST EDITIONS
OF THE APPLICABLE CODES

VERIFY ALL FNSHES W/ INTERIOR DESIGNER
CONTACT # 451.385.5843

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO CONSTRUCTION -ANY DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT



Pollution Prevention — It's Part of the Plan



Materials storage & spill cleanup

Non-hazardous materials management

- ✓ Sand, dirt, and similar materials must be stored at least 10 feet from catch basins, and covered with a tarp during wet weather or when rain is forecast.
- ✓ Use (but don't overuse) reclaimed water for dust control as needed.
- ✓ Sweep streets and other paved areas daily. Do not wash down streets or work areas with water!
- ✓ Recycle all asphalt, concrete, and aggregate base material from demolition activities.
- ✓ Check dumpsters regularly for leaks and to make sure they don't overflow. Repair or replace leaking dumpsters promptly.

Hazardous materials management

- ✓ Label all hazardous materials and hazardous wastes (such as pesticides, paints, thinners, solvents, fuel, oil, and antifreeze) in accordance with city, state, and federal regulations.
- ✓ Store hazardous materials and wastes in secondary containment and cover them during wet weather.
- ✓ Follow manufacturer's application instructions for hazardous materials and be careful not to use more than necessary. Do not apply chemicals outdoors when rain is forecast within 24 hours.
- ✓ Be sure to arrange for appropriate disposal of all hazardous wastes.

Spill prevention and control

- ✓ Keep a stockpile of spill cleanup materials (rags, absorbents, etc.) available at the construction site at all times.
- ✓ When spills or leaks occur, contain them immediately and be particularly careful to prevent leaks and spills from reaching the gutter, street, or storm drain. Never wash spilled material into a gutter, street, storm drain, or creek!
- ✓ Report any hazardous materials spills immediately! Dial 911 or your local emergency response number.

Make sure your crews and subs do the job right!

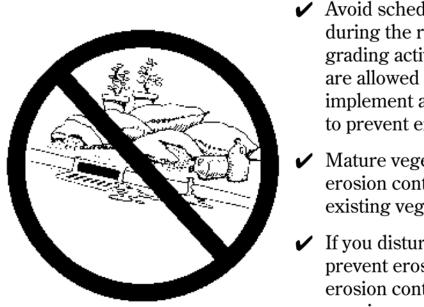
Runoff from streets and other paved areas is a major source of pollution in San Francisco Bay. Construction activities can directly affect the health of the Bay unless contractors and crews plan ahead to keep dirt, debris, and other construction waste away from storm drains and local creeks. Following these guidelines will ensure your compliance with local ordinance requirements.

Vehicle and equipment maintenance & cleaning

- ✓ Inspect vehicles and equipment for leaks frequently. Use drip pans to catch leaks until repairs are made; repair leaks promptly.
- ✓ Fuel and maintain vehicles on site only in a bermed area or over a drip pan that is big enough to prevent runoff.
- ✓ If you must clean vehicles or equipment on site, clean with water only in a bermed area that will not allow rinsewater to run into gutters, streets, storm drains, or creeks.
- ✓ Do not clean vehicles or equipment steam cleaning equipment, etc.

Earthwork & contaminated soils

- off the site.



A S M A A Bay Area Stormwater Management Agencies Association (BASMAA) 1-888-BAYWISE

Storm drain polluters may be liable for fines of up to \$10,000 per day!

on-site using soaps, solvents, degreasers,



✓ Keep excavated soil on the site where it is least likely to collect in the street. Transfer to dump trucks should take place on the site, not in the street.

✓ Use hay bales, silt fences, or other control measures to minimize the flow of silt

- ✓ Avoid scheduling earth moving activities during the rainy season if possible. If grading activities during wet weather are allowed in your permit, be sure to implement all control measures necessary to prevent erosion.
- Mature vegetation is the best form of erosion control. Minimize disturbance to existing vegetation whenever possible.
- If you disturb a slope during construction, prevent erosion by securing the soil with erosion control fabric, or seed with fastgrowing grasses as soon as possible. Place hay bales down-slope until soil is secure.

✓ If you suspect contamination (from site history, discoloration, odor, texture, abandoned underground tanks or pipes, or buried debris), call your local fire department for help in determining what testing should be done.

✓ Manage disposal of contaminated soil according to Fire Department instructions.

Dewatering operations

- ✓ Reuse water for dust control, irrigation, or another on-site purpose to the greatest extent possible.
- ✓ Be sure to call your city's storm drain inspector before discharging water to a street, gutter, or storm drain. Filtration or diversion through a basin, tank, or sediment trap may be required.
- ✓ In areas of known contamination, testing is required prior to reuse or discharge of groundwater. Consult with the city inspector to determine what testing to do and to interpret results. Contaminated groundwater must be treated or hauled off-site for proper disposal.

Saw cutting

- ✓ Always completely cover or barricade storm drain inlets when saw cutting. Use filter fabric, hay bales, sand bags, or fine gravel dams to keep slurry out of the storm drain system.
- ✓ Shovel, absorb, or vacuum saw-cut slurry and pick up all waste as soon as you are finished in one location or at the end of each work day (whichever is sooner!).
- ✓ If saw cut slurry enters a catch basin, clean it up immediately.

Paving/asphalt work

- ✓ Do not pave during wet weather or when rain is forecast.
- ✓ Always cover storm drain inlets and manholes when paving or applying seal coat, tack coat, slurry seal, or fog seal.
- ✓ Place drip pans or absorbent material under paving equipment when not in use.
- ✓ Protect gutters, ditches, and drainage courses with hay bales, sand bags, or earthen berms.

✓ Do not sweep or wash down excess sand from sand sealing into gutters, storm drains, or creeks. Collect sand and return it to the stockpile, or dispose of it as trash.

✓ Do not use water to wash down fresh asphalt concrete pavement.



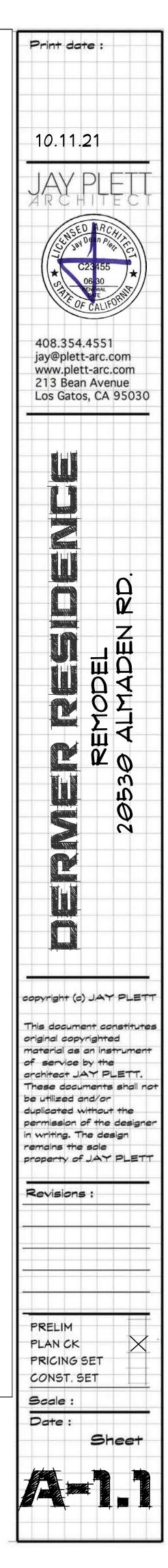


Concrete, grout, and mortar storage & waste disposal

- ✓ Be sure to store concrete, grout, and mortar under cover and away from drainage areas. These materials must never reach a storm drain.
- ✓ Wash out concrete equipment/trucks off-site or designate an on-site area for washing where water will flow onto dirt or into a temporary pit in a dirt area. Let the water seep into the soil and dispose of hardened concrete with trash.
 - ✓ Divert water from washing exposed aggregate concrete to a dirt area where it will not run into a gutter, street. or storm drain.
 - ✓ If a suitable dirt area is not available, collect the wash water and remove it for appropriate disposal off site.

Painting

- ✓ Never rinse paint brushes or materials in a gutter or street!
- ✓ Paint out excess water-based paint before rinsing brushes, rollers, or containers in a sink. If you can't use a sink, direct wash water to a dirt area and spade it in.
- ✓ Paint out excess oil-based paint before cleaning brushes in thinner.
- ✓ Filter paint thinners and solvents for reuse whenever possible. Dispose of oil-based paint sludge and unusable thinner as hazardous waste.



ABBREVIATIONS:

& ANG	AND
	ANGLE
@	AT
CL	CENTERLINE
DIA	DIAMETER OR ROUND
AC	ASPHALT CONCRETE OR AIR CONDITIONER
ACOUST	ACOUSTICAL
ADA	DISABLED ACCESSIBLE
ADJ	ADJUSTABLE
AFF	
ALUM BLDG	ALUMINUM BUILDING
BLK	BLOCK OR BLOCKING
BUR	BUILT-UP ROOFING
CPT	CARPET
CG	CORNER GUARD
СН	CHANNEL STEEL
CLG	CEILING
CLR	CLEAR
CONC	CONCRETE
CONT	CONTINUOUS
DET DIM	DETAIL DIMENSION
DIM	DOWNSPOUT
(E)	EXISTING
EA	EACH
EL	ELEVATION
EMERG	EMERGENCY
EPB	ELECTRIC PANEL BOARD
EXT	EXTERIOR
FD	FLOOR DRAIN
FE	
FEC FIN	FIRE EXTINGUISHER CABINET FINISH
FIN FL	FLOOR
FOC	FACE OF CONCRETE
FOF	FACE OF FINISH
FOM	FACE OF MASONRY
FOS	FACE OF STUD
FTG	FOOTING
FURN	FURNACE
GA	GAUGE
GALV	GALVANIZED
GYP. BD.	GYPSUM BOARD DRY WALL
H/C HM	HANDICAPPED HOLLOM METAL
INCL	INCLUDING
INSUL	INSULATION
LAM	LAMINATE
LAV	LAVATORY
LP	LOW POINT OR PLASTIC LAMINATE
MANF	MANUFACTURER
MAX	MAXIMUM
MN	
MO MTL	MASONRY OPENING METAL
N/C	NOT IN CONTRACT
NTS	NOT TO SCALE
00	ON CENTER
OPNG	OPENING
OFING	
PL	PLATE
PL PLAS	
PL PLAS PLMD	PLATE PLASTER PLYWOOD
PL PLAS PLWD PTD	PLATE PLASTER PLYWOOD PAINTED
PL PLAS PLWD PTD PT	PLATE PLASTER PLYWOOD PAINTED POINT
PL PLAS PLWD PTD PT RB	PLATE PLASTER PLYWOOD PAINTED POINT RESILIENT BASE
PL PLAS PLWD PTD PT	PLATE PLASTER PLYWOOD PAINTED POINT
PL PLAS PLWD PTD PT RB RD	PLATE PLASTER PLYWOOD PAINTED POINT RESILIENT BASE ROOF DRAIN
PL PLAS PLWD PTD PT RB RD REF	PLATE PLASTER PLYWOOD PAINTED POINT RESILIENT BASE ROOF DRAIN REFRIGERATOR
PL PLAS PLWD PTD PT RB RD REF RENF	PLATE PLASTER PLYWOOD PAINTED POINT RESILIENT BASE ROOF DRAIN REFRIGERATOR REINFORCEMENT
PL PLAS PLWD PTD PT RB RD REF RENF RENF REQ RF RM	PLATE PLASTER PLYWOOD PAINTED POINT RESILIENT BASE ROOF DRAIN REFRIGERATOR REINFORCEMENT REQUIRED RESILIENT FLOORING ROOM
PL PLAS PLWD PTD PT RB RD REF RENF REQ RF RM RT	PLATE PLASTER PLYWOOD PAINTED POINT RESILIENT BASE ROOF DRAIN REFRIGERATOR REINFORCEMENT REQUIRED RESILIENT FLOORING ROOM RESILIENT TILE
PL PLAS PLWD PTD PT RB RD REF RENF RENF REQ RF RM RT RWD	PLATE PLASTER PLYWOOD PAINTED POINT RESILIENT BASE ROOF DRAIN REFRIGERATOR REINFORCEMENT REQUIRED RESILIENT FLOORING ROOM RESILIENT TILE REDWOOD
PL PLAS PLVD PTD PT RB RD REF RENF RENF REQ RF RM RT RVD RVIL	PLATE PLASTER PLYWOOD PAINTED POINT RESILIENT BASE ROOF DRAIN REFRIGERATOR REINFORCEMENT REQUIRED RESILIENT FLOORING ROOM RESILIENT TILE REDWOOD RAINWATER LEADER
PL PLAS PLVD PTD PT RB RD REF RENF REQ RF RM RT RVD RVL SC	PLATE PLASTER PLYWOOD PAINTED POINT RESILIENT BASE ROOF DRAIN REFRIGERATOR REINFORCEMENT REQUIRED RESILIENT FLOORING ROOM RESILIENT TILE REDVOOD RAINWATER LEADER SEALED CONCRETE
PL PLAS PLVD PTD PT RB RD REF RENF RENF REQ RF RM RT RVD RVIL	PLATE PLASTER PLYWOOD PAINTED POINT RESILIENT BASE ROOF DRAIN REFRIGERATOR REINFORCEMENT REQUIRED RESILIENT FLOORING ROOM RESILIENT TILE REDWOOD RAINWATER LEADER
PL PLAS PLVD PTD PT RB RD REF RENF REQ RF RM RT RVD RVL SC SD	PLATE PLASTER PLYWOOD PAINTED POINT RESILIENT BASE ROOF DRAIN REFRIGERATOR REINFORCEMENT REQUIRED RESILIENT FLOORING ROOM RESILIENT TILE REDWOOD RAINWATER LEADER SEALED CONCRETE STORM DRAIN
PL PLAS PLVD PTD PT RB RD REF RENF REQ RF RM RT RVD RVL SC SD SIM	PLATE PLASTER PLYWOOD PAINTED POINT RESILIENT BASE ROOF DRAIN REFRIGERATOR REINFORCEMENT REQUIRED RESILIENT FLOORING ROOM RESILIENT TILE REDWOOD RAINWATER LEADER SEALED CONCRETE STORM DRAIN SIMILAR
PL PLAS PLWD PTD PT RB RD REF RENF REQ RF RM RT RWL SC SD SIM SS	PLATE PLASTER PLYWOOD PAINTED POINT RESILIENT BASE ROOF DRAIN REFRIGERATOR REINFORCEMENT REQUIRED RESILIENT FLOORING ROOM RESILIENT TILE REDVOOD RAINWATER LEADER SEALED CONCRETE STORM DRAIN SIMILAR STAINLESS STEEL OR SANITARY SEVER
PL PLAS PLVD PTD PT RB RD REF RENF REQ RF RM RT RVD RVIL SC SD SIM SS STL STRUCT T	PLATE PLASTER PLYWOOD PAINTED POINT RESILIENT BASE ROOF DRAIN REFRIGERATOR REINFORCEMENT REQUIRED RESILIENT FLOORING ROOM RESILIENT TILE REDVOOD RAINWATER LEADER SEALED CONCRETE STORM DRAIN SIMILAR STAINLESS STEEL OR SANITARY SEVIER STEEL STRUCTURAL TREAD OR TILE
PL PLAS PLVD PTD PT RB RD REF RENF REQ RF RM RT RVD RVIL SC SD SIM SS STL STRUCT T T&B	PLATE PLASTER PLYWOOD PAINTED POINT RESILIENT BASE ROOF DRAIN REFRIGERATOR REINFORCEMENT REQUIRED RESILIENT FLOORING ROOM RESILIENT TILE REDWOOD RAINWATER LEADER SEALED CONCRETE STORM DRAIN SIMILAR STAINLESS STEEL OR SANITARY SEWER STEEL STRUCTURAL TREAD OR TILE TOP AND BOTTOM
PL PLAS PLVD PTD PT RB RD REF RENF REQ RF RM RT RVD RVUL SC SD SIM SS STL STRUCT T T&B T&B T&G	PLATE PLASTER PLYWOOD PAINTED POINT RESILIENT BASE ROOF DRAIN REFRIGERATOR REINFORCEMENT REQUIRED RESILIENT FLOORING ROOM RESILIENT TILE REDWOOD RAINWATER LEADER SEALED CONCRETE STORM DRAIN SIMILAR STAINLESS STEEL OR SANITARY SEWER STEEL STRUCTURAL TREAD OR TILE TOP AND BOTTOM TONGUE AND GROOVE
PL PLAS PLVD PTD PT RB RD REF RENF REQ RF RM RT RVD RVIL SC SD SIM SS STL STRUCT T T&B T&B T&G TOS	PLATE PLASTER PLYWOOD PAINTED POINT RESILIENT BASE ROOF DRAIN REFRIGERATOR REINFORCEMENT REQUIRED RESILIENT FLOORING ROOM RESILIENT TILE REDWOOD RAINWATER LEADER SEALED CONCRETE STORM DRAIN SIMILAR STAINLESS STEEL OR SANITARY SEWER STEEL STRUCTURAL TREAD OR TILE TOP AND BOTTOM TONGUE AND GROOVE TOP OF SLAB
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PL PLAS PLVD PTD PT RB RD REF RENF REQ RF RM RT RVD RVL SC SD SIM SS STL STRUCT T T&B SS STL STRUCT T T&B T&G TOS TS TYP UG UON VF VCT VW	PLATE PLASTER PLYWOOD PAINTED POINT RESILIENT BASE ROOF DRAIN REFRIGERATOR REINFORCEMENT REQUIRED RESILIENT FLOORING ROOM RESILIENT TILE REDWOOD RAINWATER LEADER SEALED CONCRETE STORM DRAIN SIMILAR STAINLESS STEEL OR SANITARY SEWER STEEL STRUCTURAL TREAD OR TILE TOP AND BOTTOM TONGUE AND GROOVE TOP OF SLAB TUBE SECTION TYPICAL UNDERGROUND UNLESS OTHERWISE NOTED VERIFY IN FIELD VINYL COMPOSITION TILE VINYL WALL COVERING
PL PLAS PLVD PTD PT RB RD REF REQ RF RM RT RVD RVL SC SD SIM SS STL STRUCT T T&B T&G TOS TS TYP UG UON VF VCT VV	PLATE PLASTER PLYWOOD PAINTED POINT RESILIENT BASE ROOF DRAIN REFRIGERATOR REINFORCEMENT REQUIRED RESILIENT FLOORING ROOM RESILIENT TILE REDWOOD RAINWATER LEADER SEALED CONCRETE STORM DRAIN SIMILAR STAINLESS STEEL OR SANITARY SEVIER STEEL STRUCTURAL TREAD OR TILE TOP AND BOTTOM TONGUE AND GROOVE TOP OF SLAB TUBE SECTION TYPICAL UNDERGROUND UNLESS OTHERWISE NOTED VERIFY IN FIELD VINYL COMPOSITION TILE VINYL WALL COVERING WITH
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PL PLAS PLWD PTD PT RB RD REF RENF REQ RF RM RT RWL SC SD SIM SS STL STRUCT T T&B SS STL STRUCT T T&B T&B T&G TOS TS TYP UG UON VF VCT VW W/ WH WP	PLATE PLASTER PLYVOOD PAINTED POINT RESILIENT BASE ROOF DRAIN REFRIGERATOR REINFORCEMENT REQUIRED RESILIENT FLOORING ROOM RESILIENT TILE REDWOOD RAINWATER LEADER SEALED CONCRETE STORM DRAIN SIMILAR STAINLESS STEEL OR SANITARY SEVIER STEEL STRUCTURAL TREAD OR TILE TOP AND BOTTOM TONGUE AND GROOVE TOP OF SLAB TUBE SECTION TYPICAL UNDERGROUND UNLESS OTHERWISE NOTED VERIFY IN FIELD VINYL COMPOSITION TILE VINYL WALL COVERING WITH WATER HEATER WATERPROOF
PL PLAS PLWD PTD PT RB RD REF REQ RF RM RT RWL SC SD SIM SS STL STRUCT T T&B T&G TOS TS TYP UG UON VF VCT VW WH	PLATE PLASTER PLYWOOD PAINTED POINT RESILIENT BASE ROOF DRAIN REFRIGERATOR REINFORCEMENT REQUIRED RESILIENT FLOORING ROOM RESILIENT TILE REDWOOD RAINWATER LEADER SEALED CONCRETE STORM DRAIN SIMILAR STAINLESS STEEL OR SANITARY SEVIER STEEL STRUCTURAL TREAD OR TILE TOP AND BOTTOM TONGUE AND GROOVE TOP OF SLAB TUBE SECTION TYPICAL UNDERGROUND UNLESS OTHERWISE NOTED VERIFY IN FIELD VINYL COMPOSITION TILE VINYL WALL COVERING WITH WATER HEATER

- 1. CONTRACTOR SHALL PROVIDE ALL WORK AND MATERIALS IN ACCORDANCE WITH CURRENT 2019 CALIFORNIA RESIDENTIAL BUILDING, MECHANICAL, PLUMBING, ELECTRICAL, ENERGY AND GREEN BUILDING STANDARDS CODES (I.E. 2018 IRC, 2018 IBC, 2018 UMC, 2018 UPC, AND 2017 NEC AS AMENDED BY THE STATE OF CALIFORNIA AND THE TOWN OF LOS GATOS).
- 2. IN THE EVENT CERTAIN FEATURES OF THE CONSTRUCTION ARE NOT FULLY SHOWN, THEIR CONSTRUCTION SHALL BE AS SHOWN FOR SIMILAR FEATURE, ORE REVIEW THE AREA IN QUESTION WITH THE DESIGN PROFESSIONAL PRIOR TO CONSTRUCTION.
- 3. VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION
- 4. UNLESS OTHERWISE SHOWN, EXCAVATION SHALL BE NEARLY AS POSSIBLE TO THE NEAT LINES REQUIRED BY THE SIZE AND SHAPE OF THE FOOTINGS.
- 5. ALL FOOTING DEPTHS SHOWN ARE MINIMUM. FOOTINGS SHALL BE FOUNDED OVER FIRM AND NATIVE SUBSOIL. INCREASE FOOTING DEPTHS AS REQUIRED AND AS NECESSARY TO MATCH EXISTING FOOTING DEPTH.
- 6. FOUNDATION VENTILATION SHALL COMPLY WITH THE CURRENT U.B.C. REQUIREMENTS (1) SQ. FT. OF VENT AREA FOR EACH 150 SQ. FT. OR UNDER FLOOR AREA.
- 7. PROVIDE GARAGE VENTILATION EQUAL TO 60 SQ. IN. PER VEHICLE WITHIN 6" OF THE SLAB.
- 8. PROVIDE DOUBLE JOISTS UNDER WALLS PARALLEL TO FLOOR JOISTS AND SOLID BLOCKING UNDER WALLS PERPENDICULAR TO FLOOR JOISTS.
- 9. NON-COMBUSTIBLE FIRE STOPS SHALL BE PROVIDED IN OPENINGS AROUND VENTS, PIPES, DUCTS, CHIMNEYS, FIREPLACES, AND SIMILAR OPENINGS AT FLOOR CEILING LEVELS PER 2019 CRC AND CBC REQUIREMENTS.
- 10. ALL JOINTS, PENETRATIONS, AND OTHER OPENINGS IN THE BUILDING ENVELOPE SHALL BE SEALED, CAULKED, GASKETED, OR WEATHER-STRIPPED TO LIMIT AIR LEAKAGE.
- 11. A POSITIVE GRADIENT OF 6" MIN. WITHIN 10'-0" (5% MIN. AND / OR 2% AT IMPERVIOUS SURFACES MUST BE PROVIDED AWAY FROM ALL FOUNDATIONS IN ORDER TO PROVIDE RAPID REMOVAL OF SURFACE WATER RUNOFF AWAY FROM THE FOUNDATION TO AN ADEQUATE DISCHARGE POINT. NO PONDING OF WATER SHOULD BE ALLOWED ON THE PAD OR ADJACENT TO THE FOUNDATIONS.
- 12. ADD A BEAD OF CAULKING AROUND THE INTERIOR OF THE SOLE PLATE AT ALL EXTERIOR WALLS. THE BEAD SHOULD BE APPLIED AT THE JOINT OF SUBFLOOR AND SOLE PLATE JUST PRIOR TO SHEETROCK INSTALLATION.
- 13. GARAGE AREAS SHALL HAVE ON-HOUR SEPARATION FROM ALL LIVING AREAS, ONE HOUR SEPARATION CONSTRUCTION SHALL EXTEND FROM THE BOTTOM OF THE MUDSILL TO THE BOTTOM OF THE ROOF SHEATHING WITH JOINTS TAPED AND SEALED (SEE PLANS FOR LOCATIONS).
- 14. ALL EXTERIOR DOORS SHALL BE 1-3/4" SOLID CORE AND WEATHER STRIPPED.

UPON COMPLETION, MATCH SURROUNDING SIMILAR SURFACES.

- 15. DOORS LEADING FROM THE HOUSE TO THE GARAGE SHALL BE 1-3/4" SOLID CORE 20-MINUTE RATED, TIGHT-FITTING, SELF-CLOSING WITH WEATHER STRIPPING AND BOTTOM SWEEP.
- 16. ATTIC VENTING SHALL BE PROVIDED PER CURRENT 2019 CRC AND CBC REQUIREMENTS.
- 17. PROVIDE SOUND INSULATION IN WALLS AROUND ALL BATHROOMS, LAUNDRY ROOMS AND BETWEEN COMMON WALLS OF BEDROOMS AND BETWEEN FLOORS.
- 18. ALL PATCHING, REPAIRING, AND REPLACING OF MATERIALS AND SURFACES CUT OR DAMAGED IN EXECUTION OF WORK SHALL BE DONE WITH IDENTICAL MATERIALS SO THAT SURFACE REPLACED WILL,
- 19. PLUMBING FIXTURES SHALL COMPLY WITH THE FOLLOWING CONSERVATION MEASURES:
- A. ALL WATER CLOSETS TO BE 1.28 GAL. MAXIMUM B. ALL SHOWER HEADS OR MULTIPLE SHOWER HEADS SERVING ONE SHOWER (COMBINED FLOW RATE OF ALL SHOWERHEADS AND/OR OTHER SHOWER OUTLETS CONTROLLED BY A SINGLE VALVE)- TO BE
- 1.8 GPM MAX AT 80 PSI PER CGBSC SECTION 4.303.1.3 LAVATORY FAUCETS TO BE 1.2 GPM AT 60 PSI (MIN. SHALL NOT BE LESS THAN 0.8 GPM AT 20 PSI) C.
- KITCHEN FAUCETS TO BE 1.8 GPM AT 60 PSI
- 20. ALL WINDOWS AT BATHTUBS AND / OR SHOWERS TO BE TEMPERED GLASS AS NOTED.
- 21. ALL GLAZING WITHIN 24" OF DOORS AND/ OR 18" OF FLOOR TO BE TEMPERED GLASS.
- 22. NO STORAGE (PLYWOOD, SUB-FLOORING, ETC.) ALLOWABLE AT ATTIC SPACES.
- 23. PROVIDE BACK-FLOW DEVICES AT ALL NEW HOSE BIBS.
- 24. SHOWERS AND TUB / SHOWER COMBINATIONS SHALL BE PROVIDED WITH INDIVIDUAL CONTROL VALVES OF THE PRESSURE BALANCE OR THERMOSTATIC MIXING VALVE TYPE.
- 25. WATER TREATMENT SYSTEMS SHALL BE EQUIPPED WITH AN AUTOMATIC SHUT-OFF TO PREVENT CONTINUOUS FLOW WHEN NOT IN USE.
- 26. ALL PLUMBING VENTS TO BE 10 FEET MIN. FROM OPERABLE SKYLIGHTS.
- 27. EXTERIOR WALL BOTTOM SILL PLATES SHALL BE PRESSURE TREATED OR EQ. AND SHALL BEAR / EXTEND 8" MINIMUM ABOVE FINISH GRADE.
- 28. WINDOWS LOCATED MORE THAN 72" ABOVE FINISHED GRADE SHALL HAVE THE LOWEST PART OF CLEAR OPENING OF THE WINDOW TO BE MINIMUM 24: ABOVE THE FLOOR IN WHICH IT SERVES.
- 29. GYPSUM BOARD APPLIED TO A CEILING WALL SHALL BE 1/2" WHEN FRAMING MEMBERS ARE 16" O.C. OR 5/8" WHEN FRAMING MEMBERS ARE 24" O.C. OR USE LABELED ½" SAG-RESISTANT GYPSUM CEILING BOARD.
- 30. SHOWER AREA WALLS SHALL BE FINISHED WITH A SMOOTH, HARD, NON-ABSORBENT SURFACE SUCH AS CERAMIC TILE TO A HEIGHT OF NOT LESS THAN 72" ABOVE THE DRAIN INLET. WATER-RESISTANT GYPSUM BOARD SHALL NOT BE INSTALLED OVER A VAPOR RETARDER IN A SHOWER OR TUB COMPARTMENT, CEMENT, FIBER-CEMENT, OR GLASS MAT GYPSUM BACKERS INSTALLED IN ACCORDANCE WITH THE MFG'S RECOMMENDATION SHALL BE USED AS BACKERS FOR WALL TILE IN TUB AND SHOWER AREAS AND WALL PANELS IN SHOWER AREA.
- 31. DOMESTIC DISHWASHING MACHINES CONNECTED TO A DISPOSER SHALL HAVE THE DISCHARGE INSTALLED AS HIGH AS POSSIBLE.
- 32. HOT WATER RECIRCULATION PUMPS: PROVIDE A HOT WATER DEMAND CONTROLLED RECIRCULATION PUMP FOR WATER HEATERS LOCATED MORE THAN 20 FEET FROM THE FURTHEST FIXTURE SERVED. A MANUAL CONTROL OR OCCUPANT SENSOR SWITHC SHALL OPERATE THE PUMP WITH AN AUTOMATIC TEMPERATURE SENSOR SHUT-OFF.
- 33. INSULATION MATERIAL, INCLUDING FACINGS SUCH AS VAPOR BARRIERS OR BREATHER PAPERS INSTALLED WITHIN FLOOR / CEILING OR ROOF / CEILING ASSEMBLIES, WALLS, CRAWL-SPACES OR ATTICS SHALL HAVE A FLAME SPREAD NOT TO EXCEED 25 AND A SMOKE DENSITY RATING OF 450 WHEN TESTED IN ACCORDANCE W / UBC STANDARD 8-1.

34. DIMENSIONS INDICATED ARE DIMENSIONS TO BE USED. DO NOT SCALE DRAWINGS.

35. PROVIDE FIRE BLOCKING AT LOCATIONS AS REQUIRED BY CRC SECTION R302.1 (1).

36. INSTALL AT LEAST ONE ENERGY STAR DISHWASHER AND CLOTHES WASHER WITH MAXIMUM WATER USAGE: STANDARD DISHWASHER = 4.25 GAL PER CYCLE. COMPACT DISHWASHER = 3.5 GAL PER CYCLE. CLOTHES WASHER = WATER FACTOR OF 6 GAL PER CUBIC FEET OF DRUM CAPACITY.

37: RENEWABLE SOURCE BUILDING PRODUCTS SUCH AS BAMBOO FLOORING SHALL BE USED WHERE APPLICABLE.

38. ALL 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 SIMILAR METHOD ACCEPTABLE TO THE ENFORCING AGENCY.

39. RECYCLE AND/OR SALVAGE FOR REUSE A MINIMUM OF 65% OF THE NON-HAZARDOUS 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

40. CONSTRUCTION WASTE GENERATED AT THE SITE I TO BE DIVERTED TO RECYCLE OR SALVAGE BY AT LEAST 65%.

41. MOISTURE CONTENT OF BUILDING MATERIALS USED IN WALL AND FLOOR FRAMING TO BE CHECKED BEFORE ENCLOSURE.

42. HVAC SYSTEM INSTALLERS TO BE TRAINED AND CERTIFIED IN THE PROPER INSTALLATION OF HVAC SYSTEMS

43. 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.

1. STEPS AT INTERIOR DOORS:

A. THE DROP OF THE FLOOR OR LANDING ON EACH SIDE OF THE DOOR SHALL NOT BE MORE THAN 1/2" FROM THE TOP OF THE THRESHOLD OF THE DOORWAY.

2. EXTERIOR DOOR NOTES

A. CONCRETE LANDINGS TO BE 36" X FULL WIDTH OF DOOR OPENING.

- B. PROVIDE WEATHER STRIPPING ALL AROUND DOORS. C. PROVIDE METAL THRESHOLDS .
- D. PROVIDE A MAXIMUM OF 7-1/2" DROP FROM TOP OF THRESHOLD TO LANDING AT IN-SWINGING EXTERIOR DOORS.

E. EXIT DOORS SHALL BE OPERABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE.

3. PLUMBING REQUIREMENTS

A. VERIFY / PROVIDE A BACKWATER VALVE ON DRAINAGE PIPING SERVING FIXTURES THAT HAVE FLOOD LEVEL RIMS LESS THAN 12" ABOVE THE NEXT UPSTREAM MANHOLE. B. CONTRACTOR TO PROVIDE PRESSURE ABSORBING DEVICES OR APPROVED MECHANICAL DEVICES LOCATED AS CLOSE AS POSSIBLE TO QUICK ACTING VALVES THAT WILL ABSORB HIGH PRESSURE RESULTING FROM THE QUICK CLOSING OF QUICK ACTING VALVES.

4. SHOWERS & SHOWER / TUB COMBINATIONS

A. SHOWER FLOORS: PROVIDE CERAMIC TILE OVER WATERPROOF MEMBRANE. B. WALLS: FINISH W/ SMOOTH, NON-ABSORBENT SURFACE SUCH AS CERAMIC TILE TO A HEIGHT OF NOT LESS THAN 72" ABOVE THE DRAIN INLET. WATER-RESISTANT GYPSUM BOARD SHALL NOT BE INSTALLED OVER A VAPOR RETARDER IN A SHOWER OR TUB COMPARTMENT. CEMENT, FIBER-CEMENT, OR GLASS MAT GYPSUM BACKERS INSTALLED IN ACCORDANCE W/ MFG RECOMMENDATIONS SHALL BE USED AS BACKERS FOR WALL TILE IN TUB AND SHOWER AREAS AND WALL PANELS IN SHOWER AREAS. C. PROVIDE TEMPERED GLASS ENCLOSURES AS SHOWN ON PLAN W/ 22" MIN. WIDE ACCESS DOORS.

D. MIN. SHOWER SIZE TO BE 1,024 SQ. IN. AND 30" DIA MIN. CLEAR TO THE CENTERLINE OF THE CURB.

5. SHOWER VALVES

A. SHOWERS AND TUB / SHOWER COMBINATIONS SHALL BE PROVIDED WITH INDIVIDUAL PRESSURE BALANCE OR THERMOSTATIC MIXING CONTROL VALVES. B. THE MAXIMUM MIXED WATER SETTING SHALL BE 120 DEGREES FAHRENHEIT.

C. WATER HEATER THERMOSTAT SHALL NOT BE CONSIDERED AS SUITABLE FOR MEETING THIS REQUIREMENT.

6. SAFETY GLAZING IN HAZARDOUS LOCATIONS

A. GLAZING IN EGRESS AND INGRESS DOORS B. GLAZING IN FIXED AND SLIDING PANEL DOORS OTHER THAN WARDROBE DOORS. C. GLAZING IN DOORS AND ENCLOSURES FOR HOT TUBS, WHIRLPOOLS, SAUNAS, STEAM

ROOMS, BATHTUBS AND SHOWERS. GLAZING IN WALL ENCLOSING THESE

COMPARTMENTS LESS THAN 60 INCHES ABOVE THE DRAIN INLET. D. GLAZING IN PANELS ADJACENT TO A DOOR WITHIN A 24-INCH ARC AND LESS THAN 60

INCHES ABOVE THE WALKING SURFACE. E. GLAZING IN PANELS MORE THAN 9 SQ. FT. THE BOTTOM LESS THAN 18" ABOVE THE

FLOOR, THE TOP GREATER THAN 36" ABOVE THE FLOOR, AND A WALKING SURFACE WITHIN 26" HORIZONTALLY OF THE PLANE.

7. EACH WATER CLOSET STOOL SHALL BE LOCATED IN A CLEAR SPACE NOT LESS THAN 30" IN WIDTH AND HAVE A CLEAR SPACE IN FRONT OF THE WATER CLOSET STOOL OF NOT LESS THAN 24".

8. DASHED LINES INDICATE REQUIRED W/C CLEARANCE.

9. PROVIDE 2 X & WOODEN BACKING IN ALL BATHROOM WALLS AT WATER CLOSET, SHOWER, AND BATHTUB LOCATED AT 34" FROM THE FLOOR TO THE CENTER OF THE BACKING SUITABLE FOR THE ADDITION OF GRAB BARS.

10. TRIM-LESS WINDOWS TO BE FLUSH W/ FLOOR AND ANGLED TO BE FLUSH W/ BOTTOM OF SLOPED CEILING.

11. INDICATES 30" DIA. REQUIRED SHOWER CLEARANCE.

- 1. CONTRACTOR SHALL PROVIDE ALL WORK AND MATERIALS IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL CODES.
- 1. ALL PLUMBING FIXTURES AND FITTINGS SHALL MEET THE STANDARDS REFERENCED IN 2. CONTRACTOR SHALL FIELD INSPECT JOB SITE PRIOR TO COMMENCEMENT OF WORK AND TABLE 1701.1 OF THE 2019 CALIFORNIA PLUMBING CODE SHALL ADHERE TO ALL RULES GOVERNING CONSTRUCTION, SAFETY, BUILDING ACCESS, WASTE MANAGEMENT AND THE USE OF FACILITIES AS SET BY THE BUILDING OWNER, BUILDING DEPARTMENT, FIRE 1. CONTRACTOR TO PROVIDE DOCUMENTATION PRIOR TO THE FIRST INSPECTION DEPARTMENT STATE AUTHORITIES. CONFIRMING COMPLIANCE TO THE WASTE MANAGEMENT PLAN PROVIDED AND APPROVED BY THE APPROPRIATE AGENCIES.
- 3. IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
- 4. ALL MECHANICAL, ELECTRICAL, PLUMBING, WORK AND ENGINEERING IS DESIGNATED TO BE "DESIGN BUILD" AND IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND HIS ASSIGNED DESIGN BUILD SUB-CONTRACTORS. THEY ARE THEREBY IN SOLE CHARGE OF DESIGN ENGINEERING, PERMITS, FEES, CALCULATIONS, REPORTS, DRAWINGS, ETC. REQUIRED BY LOCAL AND ALL OTHER GOVERNING AGENCIES FOR THE WORK SO DESIGNATED.
- FRAMING 5. PRIOR TO ENCLOSING THE WALL AND FLOOR FRAMING, CONFIRMATION MUST BE 5. THE CONTRACTOR AND ALL SUB-CONTRACTORS AGREES TO DEFEND, INDEMNIFY AND HOLD PROVIDED TO THE BUILDING INSPECTOR SHOWING THE FRAMING MEMBERS DO NOT DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN EXCEED 19% MOISTURE CONTENT. CONNECTION WITH THE PERFORMANCE OF ALL WORK ON THIS PROJECT EXCEPTING ENERGY LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE DESIGN PROFESSIONAL.
- 6. CONTRACTOR SHALL NOTIFY DESIGN PROFESSIONAL OF ANY DISCREPANCIES ENCOUNTERED ON THE DRAWINGS. SUCH DISCREPANCIES SHALL BE RESOLVED TO THE SATISFACTION OF THE DESIGN PROFESSIONAL PRIOR TO THE START OF THE AFFECTED WORK.
- 8. FOR ADDITIONAL INFORMATION SEE MANDATORY MEASURES SHEET G1.0. 7. CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL SUB-CONTRACTORS TO ENSURE A ADDRESS TIMELY COMPLETION OF THE JOB. NO ALLOWANCE SHALL BE MADE FOR INCREASED COSTS 9. THE BUILDING ADDRESS SHALL COMPLY WITH CRC SECTION R319. INCURRED DUE TO LACK OF PROPER COORDINATION.
- 8. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL RUBBISH AND WASTE MATERIALS ON A REGULAR BASIS AND SHALL EXERCISE STRICT CONTROL OVER JOB CLEANING TO PREVENT ANY DIRT, DEBRIS OR DUST FROM AFFECTING IN ANY WAY THE FINISHED AREAS IN OR OUTSIDE JOB SITE. THE BUILDING REFUSE FACILITIES SHALL NOT BE USED FOR THIS PURPOSE.
- 9. GENERAL AND ALL SUB-CONTRACTORS ARE RESPONSIBLE FOR INSPECTING THE PREMISES DURING ANY BIDDING/CONTRACT NEGOTIATIONS TO ASCERTAIN EXISTING CONDITIONS WHICH MIGHT AFFECT THE COST OR SCHEDULE OF CONSTRUCTION. DISCREPANCIES AND/ OR CONFLICTS SHALL BE REPORTED TO THE OWNER AND THE DESIGN PROFESSIONAL BEFORE SUBMITTING BIDS OR CONCLUSION OF ANY CONTRACT NEGOTIATIONS.
- 10. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING LOCATION OF ALL UTILITIES PRIOR TO EXCAVATION AND/OR DEMOLITION.
- 11. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO PROPERTY OR CONSTRUCTION RESULTING FROM WORK OF CONTRACTOR AND/OR SUB-CONTRACTORS, AND SHALL REPAIR ALL SUCH DAMAGE TO ORIGINAL CONDITION AT NO ADDITIONAL COST.
- 12. GENERAL CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR EXECUTION OF WORK IN ACCORDANCE WITH CONSTRUCTION DOCUMENTS. BIDDING ON DOCUMENTS IS CONSIDERED ACCEPTANCE OF ALL NOTES AND INFORMATION HEREIN.
- 13. THE CONSTRUCTION DOCUMENTS ARE PROVIDED TO ILLUSTRATE THE DESIGN AND GENERAL TYPE OF CONSTRUCTION DESIRED TO IMPLY THE FINEST QUALITY OF CONSTRUCTION, MATERIAL AND/OR WORKMANSHIP THROUGHOUT, THE GENERAL CONTRACTOR, IN ASSUMING RESPONSIBILITY FOR THE WORK INDICATED, SHALL COMPLY WITH THE SPIRIT AS WELL AS THE LETTER IN WHICH THEY WERE WRITTEN.
- 14. THE GENERAL CONTRACTOR SHALL MAINTAIN A CURRENT AND COMPLETE SET OF CONSTRUCTION DOCUMENTS ON THE JOB SITE DURING ALL PHASES OF CONSTRUCTION FOR USE OF ALL TRADES, SHALL PROVIDE ALL SUBCONTRACTORS WITH CURRENT CONSTRUCTION DOCUMENTS AS REQUIRED.
- 15. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL EXISTING CABINETS, APPLIANCES, FIXTURES AND FLOOR COVERINGS AS NOTED IN THE SPECIFICATIONS OR CONSTRUCTION DOCUMENTS. EXCEPT WHERE NOTED OTHERWISE, ALL ITEMS REMOVED FROM BUILDING SHALL BECOME THE PROPERTY OF THE CONTRACTOR. IT BECOMES THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO REMOVE THESE ITEMS FROM THE JOB SITE AND DISPOSE OF THEM PROPERLY.
- 16. ALL WORK LISTED, SHOWN OR IMPLIED ON ANY CONSTRUCTION DOCUMENTS SHALL BE SUPPLIED AND INSTALLED BY GENERAL CONTRACTOR EXCEPT WHERE NOTED OTHERWISE. THE GENERAL CONTRACTOR SHALL CLOSELY COORDINATE HIS WORK WITH THAT OF OTHER CONTRACTORS OR VENDORS TO ASSURE THAT ALL SCHEDULES ARE MET AND THAT ALL WORK IS DONE IN CONFORMANCE WITH MANUFACTURER'S REQUIREMENTS.
- 17. THE GENERAL CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AS REQUESTED FOR FABRICATED ITEMS TO THE DESIGN PROFESSIONAL FOR APPROVAL PRIOR TO INSTALLATION.
- 18. GENERAL CONTRACTOR AND ALL SUBCONTRACTORS SHALL CONFINE OPERATIONS TO AREAS AND TIMES OF OPERATION PERMITTED BY LAW, ORDINANCES, PERMITS AND THE CONTRACT DOCUMENTS AND SHALL NOT UNREASONABLY ENCUMBER THE SITE WITH ANY MATERIAL AND/OR EQUIPMENT.
- 19. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING THE JOB SITE AT THE COMPLETION OF THE WORK. CLEANING SHALL INCLUDE WINDOWS, FLOORING/CARPET, CABINETRY, WALLS AND CEILINGS.
- 20. ALL MATERIALS STORED ON THE SITE SHALL BE PROPERLY STACKED AND PROTECTED TO PREVENT DAMAGE AND/OR DETERIORATION UNTIL USE. FAILURE TO PROTECT MATERIALS MAY BE CAUSE FOR REJECTION OF WORK.
- 21. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL DEBRIS FROM THE PREMISES.

PROJECT REQUIREMENTS

- PLUMBING
- DOCUMENTATION 2. AT FINAL INSPECTION, A MANUAL, COMPACT DISC, WEB-BASED REFERENCE OR OTHER ACCEPTABLE MEDIA INCLUDING ALL ITEMS 1 THROUGH 10 OF SECON4.410 OF THE CALIF. GREEN RESIDENTIAL MANDATORY MEASURES.
- MECHANICAL 3. ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEETMETAL, OR OTHER ACCEPTABLE METHODS AT THE TIME OF ROUGH INSTALLATION OR DURING STORAGE ON THE CONSTRUCTION SITE AND
- UNTIL FINAL STARTUP OF THE HEATING AND COOLING EQUIPT 4. ALL HEATING AND AIR CONDITIONING SYSTEMS SHALL BE DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF CGBSC SECTION 4.507.2
- 6. A COMPLETED CF2R-LTG-01-E FORM MUST BE PROVIDED TO THE TOWN BUILDING INSPECTOR PRIOR TO FINAL INSPECTION.
- CAL-GREEN 7. ALL ADHESIVES, SEALANTS, CAULKS, PAINTS, COATINGS, AND AEROSOL PAINT CONTAINERS MUST REMAIN ON THE SITE FOR FIELD VERIFICATION BY THE BUILDING INSPECTOR.

SPECIFICATIONS

- 1. ALL GAS ONLY METAL FIREBOXES TO BE AS MANUFACTURE3D BY "HEAT-N-GLO" MODEL *6000 CL UL APPROVED ANSI Z21.88b-2008 CSA 2.33a-2008 OR EQUAL. CONTRACTOR TO PRESENT BUILDING INSPECTION W/ MANUFACTURER INSTALLATION INSTRUCTIONS FOR VERIFICATION.
- 2. ALL SKYLIGHTS TO BE FIXED AND PAN-FLASHED AS MANUFACTURED BY "VELLUX". SKYLIGHTS TO BE FLAT-GLASS W/ ANODIZED FRAMES UNLESS NOTED OTHERWISE. WDMA HALLMARK CERTIFIED 426-H-669 AND ICC APPROVED PER ICC-ES LEGACY REPORT NER-216. ALL SKYLIGHTS TO BE TESTED AND APPROVED, BEARING A LABEL INDICATION COMPLIANCE WITH THE REQUIREMENTS OF AAMA/WDMA/CSA 101/1.S.2/A440. ADDITIONALLY, CERTIFICATION LABELS SHALL BE PROVIDED UPON INSPECTION.

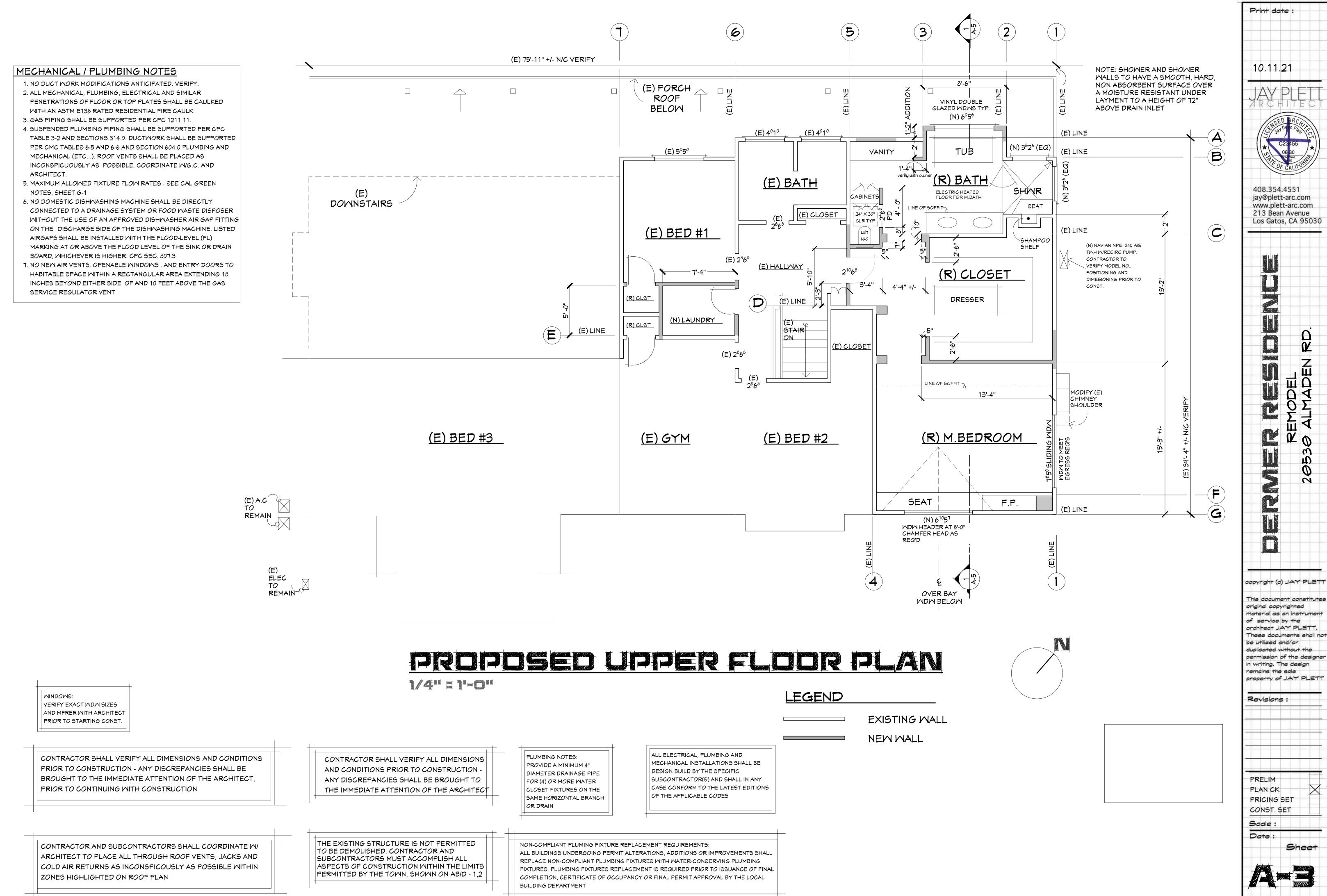
SPECIAL INSPECTIONS

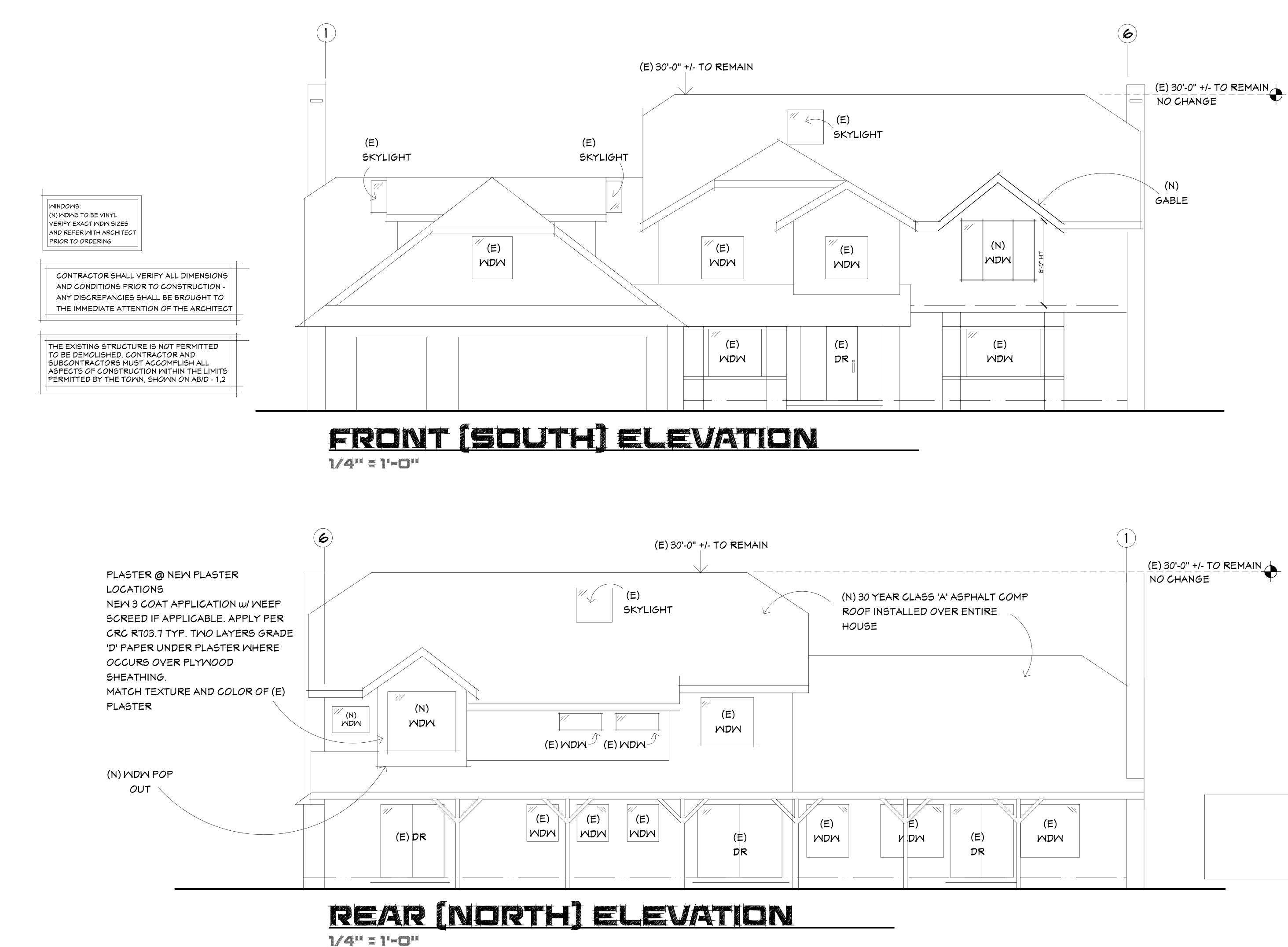
- 1. PER SECTION 1705 OF THE 2019 CBC, SPECIAL INSPECTION ARE REQUIRED FOR SHEARWALLS WITH A NAILING SCHEDULE OF 4" 0.C OR LESS. THE SPECIAL INSPECTION MAY BE PERFORMED BY THE ENGINEER OF RECORD.
- 2. STRUCTURAL OBSERVATION BY THE ENGINEER IS REQUIRED FOR EPOXY INSTALL AT HOLD DOWNS AND FOUNDATION DOWELS.

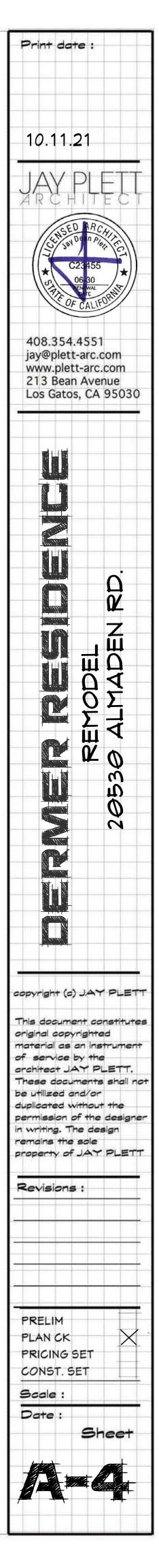
NON-COMPLIANT PLUMBING FIXTURE REPLACEMENT REQUIREMENTS

ALL BUILDINGS UNDERGOING PERMIT ALTERATIONS, ADDITIONS, OR IMPROVEMENTS SHALL REPLACE NON -COMPLIANT PLUMBING FIXTURES WITH WATER-CONSERVING PLUMBING FIXTURES. PLUMBING FIXTURE REPLACEMENT IS REQUIRED PRIOR TO ISSUANCE OF FINAL COMPLETION, CERTIFICATE OF OCCUPANCY, OR FINAL PERMIT APPROVAL BY THE LOCAL BUILDING DEPARTMENT.

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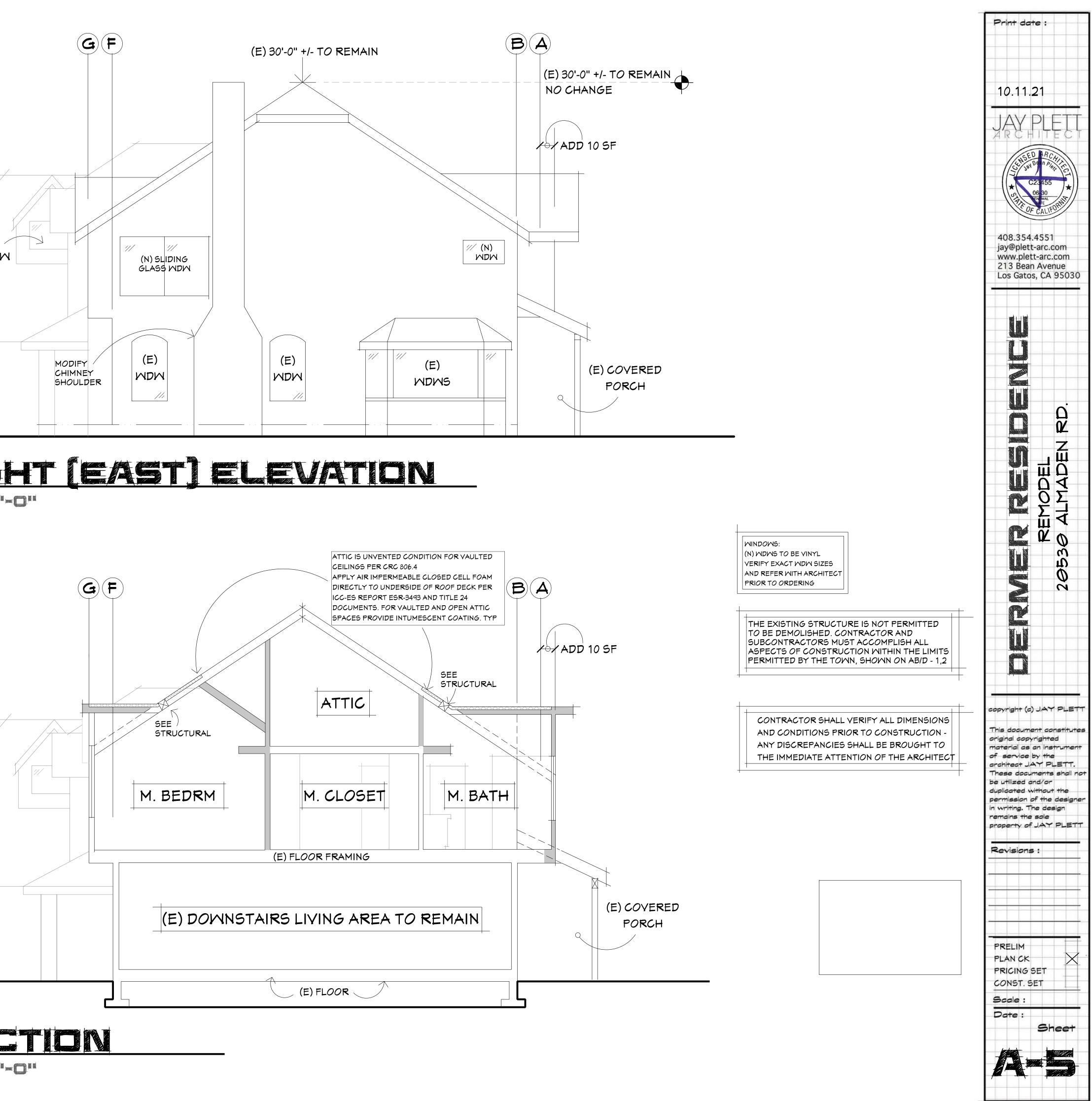


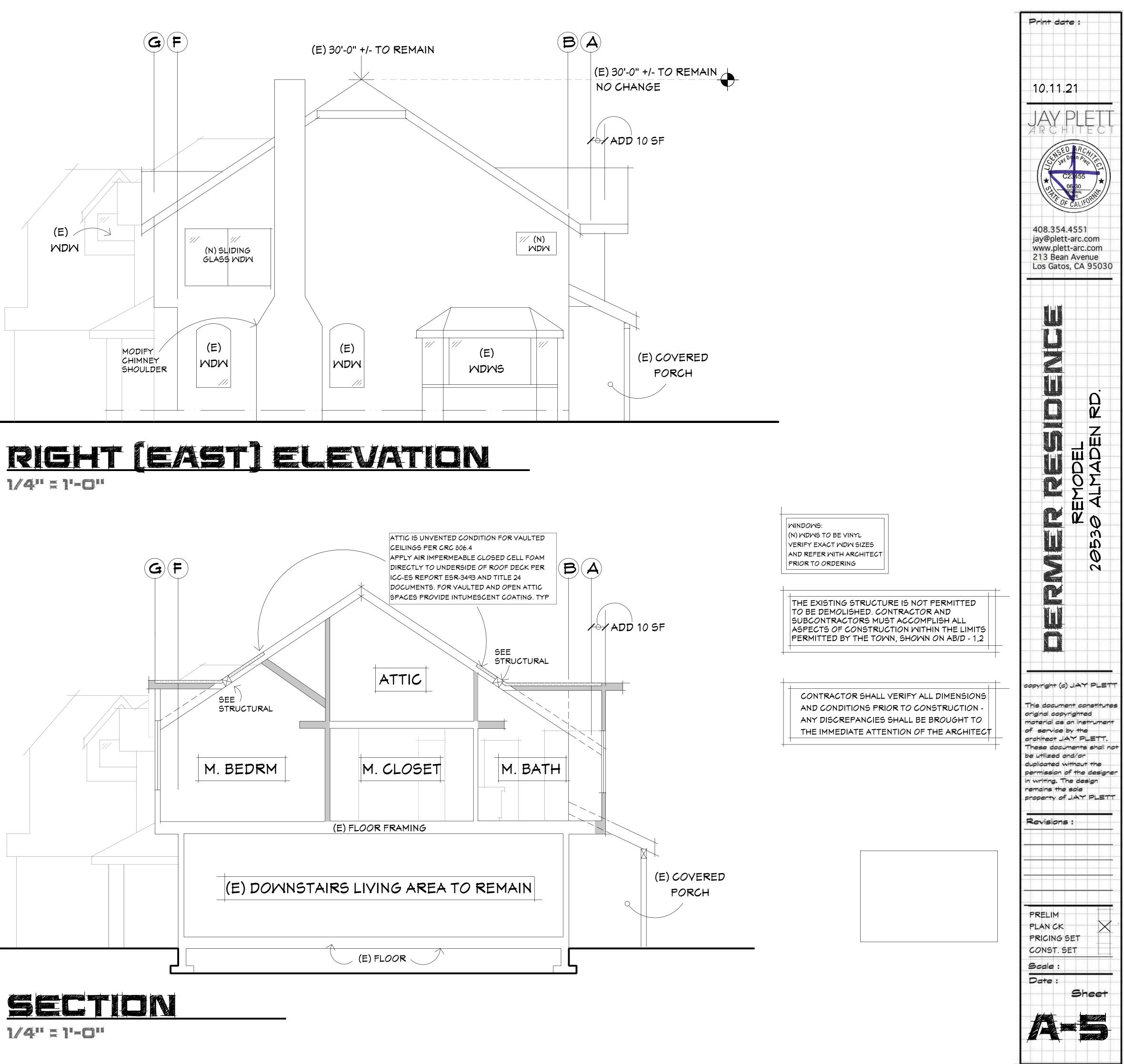


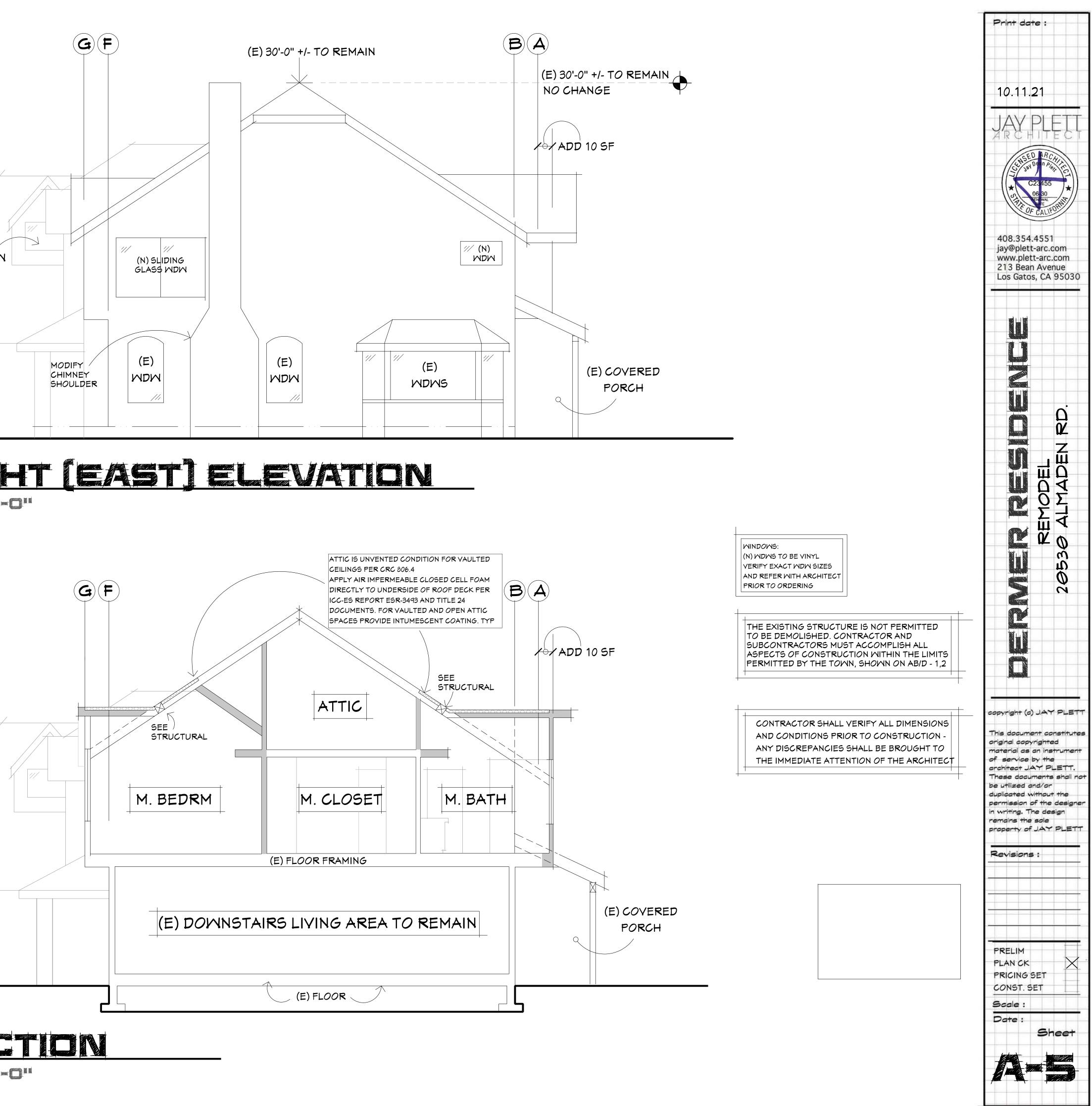
(E) MDM







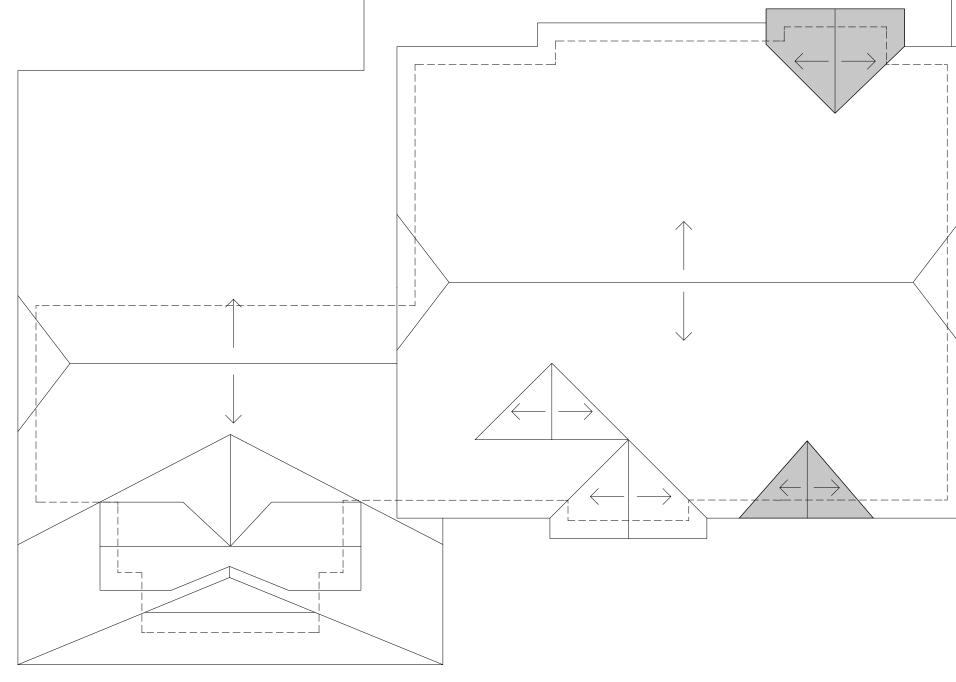


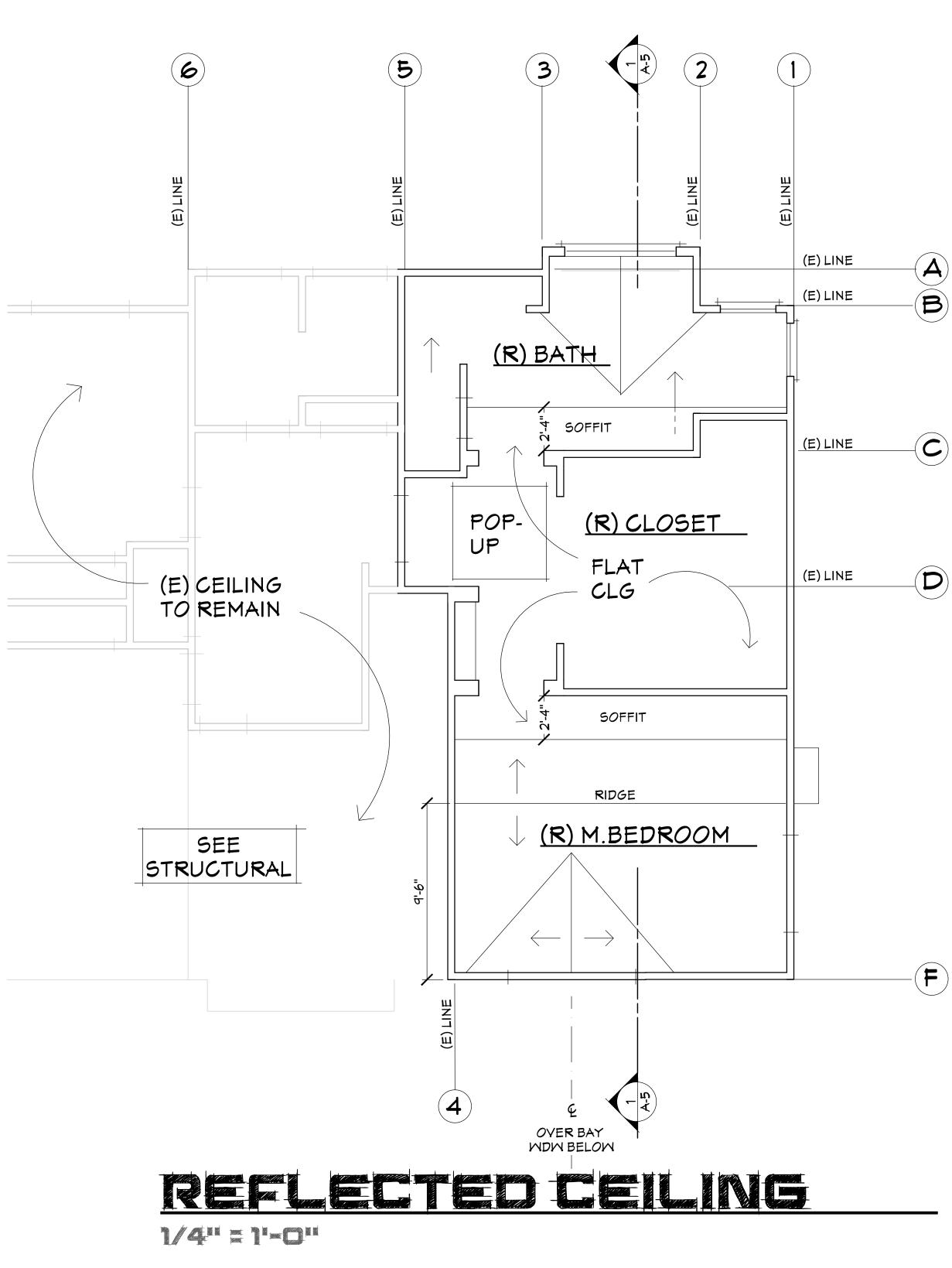


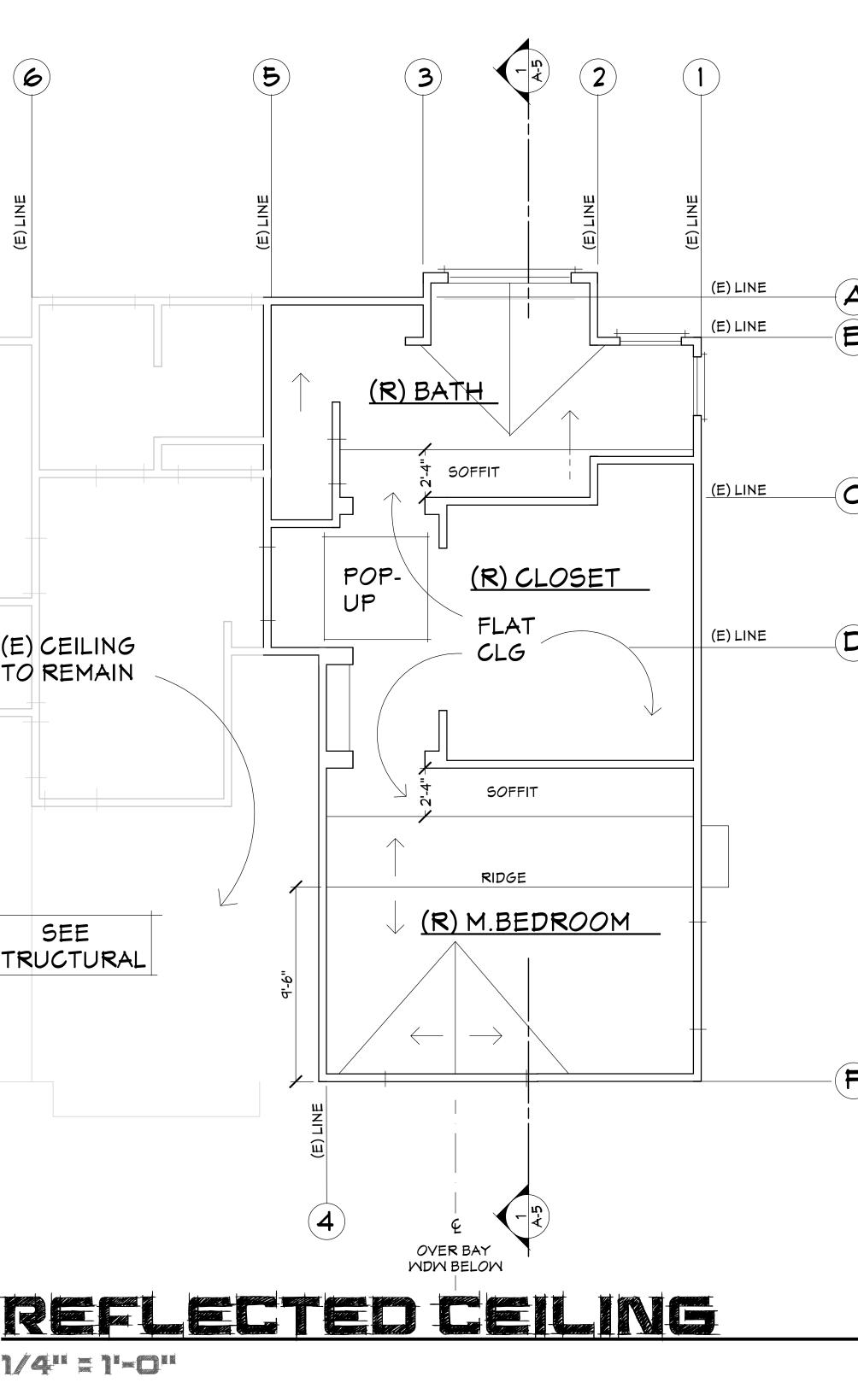
CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO CONSTRUCTION -ANY DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT

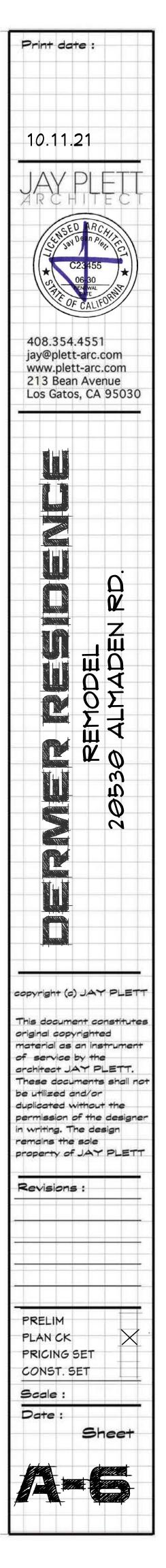
THE EXISTING STRUCTURE IS NOT PERMITTED TO BE DEMOLISHED. CONTRACTOR AND SUBCONTRACTORS MUST ACCOMPLISH ALL ASPECTS OF CONSTRUCTION WITHIN THE LIMITS PERMITTED BY THE TOWN, SHOWN ON AB/D - 1,2

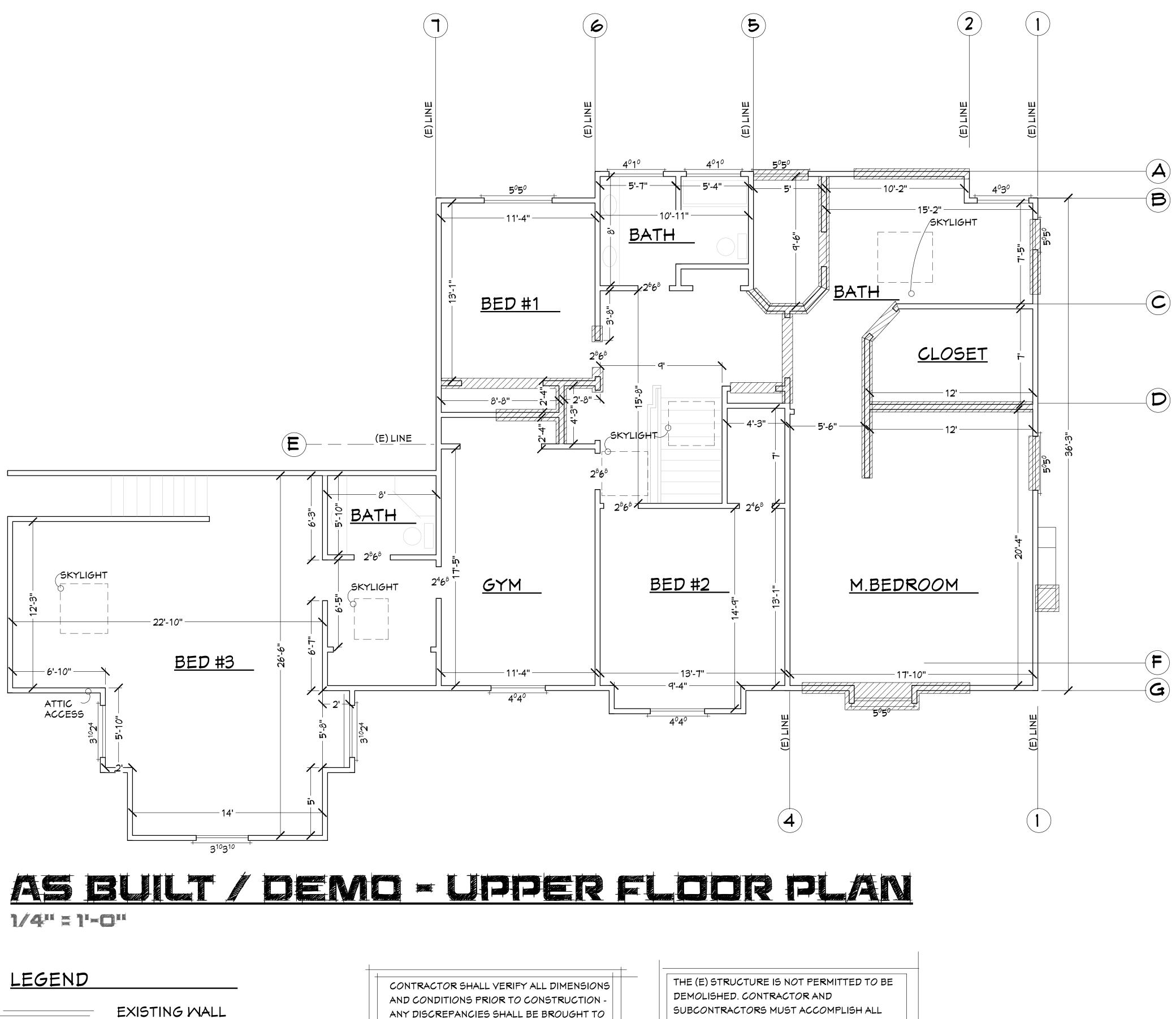










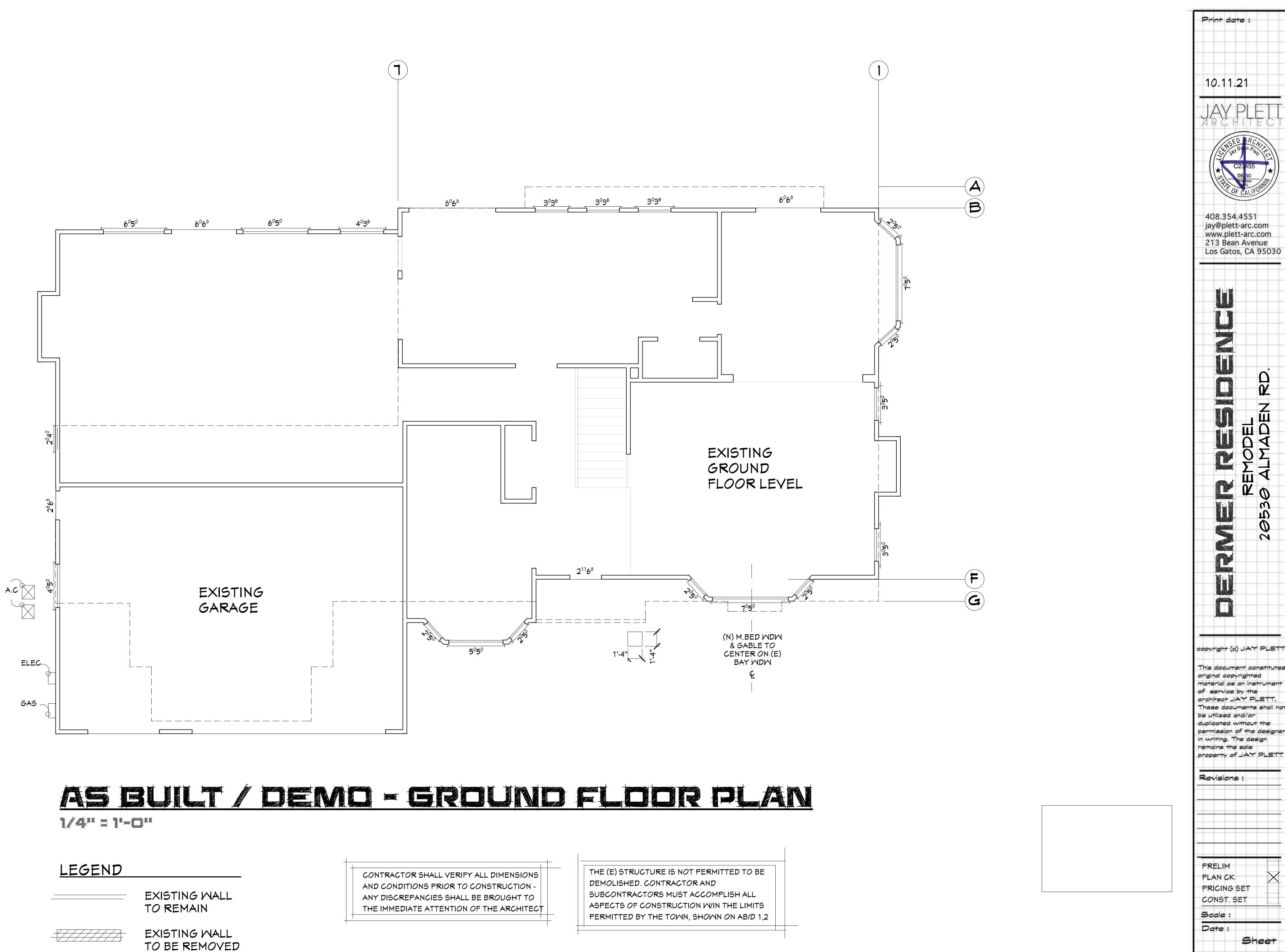


EXISTING WALL TO BE REMOVED

TO REMAIN

ANY DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT ASPECTS OF CONSTRUCTION W/IN THE LIMITS PERMITTED BY THE TOWN, SHOWN ON AB/D 1,2

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AB/D=2

ELECTRICAL SYMBOL LEGEND

	HEIGHT TO CENTER OF OUTLET (12" UNO NOTED)	
₽ _{GFI}	W/GROUND FAULT INTERCEPTOR	
¢ _{₩P}	WATER PROOF	
¢	W/ONE SWITCHABLE OUTLET	
X	RECESSED EXHAUST FAN W/VENT T <i>O O</i> UTSIDE W/ BUILT IN LIGHT FIXTURE AND HEAT	
\bigcirc	LIGHT FIXTURE	
\triangleright	MALL SCONCE	
	UNDER CABINET TASK LIGHTING	
0	RECESSED CAN LIGHT	
$\bigcirc \rightarrow$	RECESSED DIRECTIONAL LIGHT	
U	JUNCTION BOX	
Ş	WALL SWITCH	
Ş 3	3 MAY	
Ş4	4 WAY OR GREATER	
SD CD	SMOKE / CARBON MONOXIDE DETECTOR	

PLAN WITH OWNER PRIOR TO CONSTRUCTION

SHALL DO WALK THROUGH OF ELECTRICAL

CONTRACTOR AND SUBCONTRACTORS SHALL COORDINATE WITH ARCHITECT TO PLACE ALL THROUGH ROOF VENTS, JACKS AND COLD AIR RETURNS AS INCONSPICOUSLY AS POSSIBLE WITHIN ZONES HIGHLIGHTED ON ROOF PLAN

ALL EXTERIOR LIGHT FIXTURES WILL MEET THE REQ'TS OF TOWN CODE SEC. 29.10.09015 TO BE DOWNWARD DIRECTED AND SHIELDED

FOR BATHROOM EXHAUST FANS, PROVIDE 50 CFM INTERMITTENT AIRFLOW MIN. OR 20CFM FOR CONTINUOUSLY OPERATING FANS. PER CEC SEC 150(0) AND ASHRAE 62.2-2016 TABLE 5.1 AND 5.2

ELECTRICAL NOTES:

1. TWO 20-AMP SMALL APPLIANCE BRANCH CIRCUITS ARE REQUIRED FOR THE KITCHEN AND ARE LIMITED TO SUPPLYING WALL AND COUNTER SPACE OUTLETS FOR THE KITCHN, PANTRY, BREAKFAST ROOM, DINING ROOM, OR SIMILAR AREAS. NOTE: THESE CIRCTUIS CANNOT SERVE OUTSIDE PLUGS, RANGE HOOD, DISPOSALS, DISHWASHERS OR MICROWAVES - ONLY THE REQUIRED COUTERTOP/WALL OUTLETS, INCLUDING THE REFRIGERATOR. PER CEC 210.11(C)(1) & 210.52(B)

(E) A.C

REMAIN

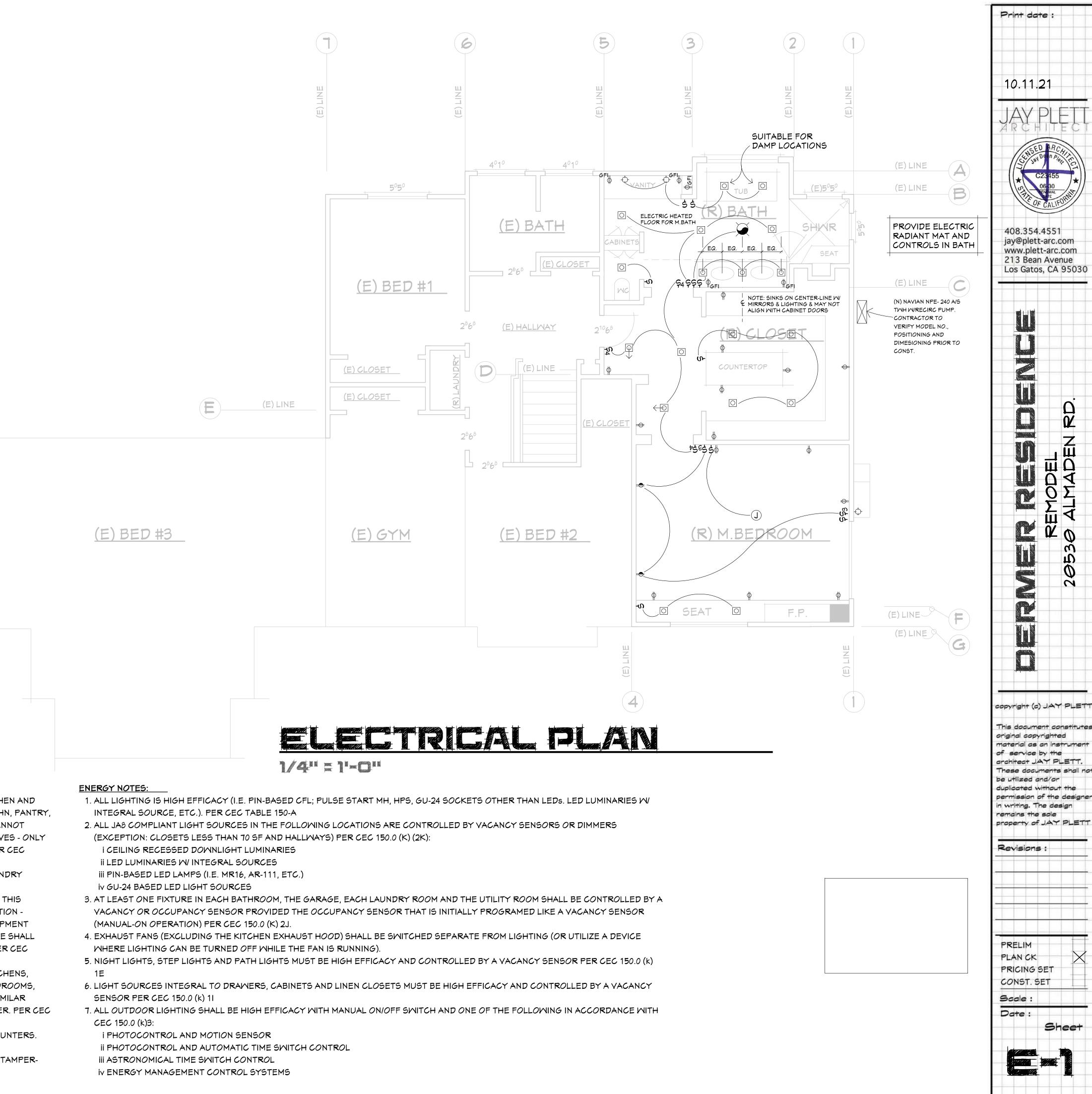
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ELEC TO

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ТO

- 2. A DEDICATED 20-AMP BRANCH CIRCUIT SHALL BE PROVIDED TO SUPPLY THE LAUNDRY RECEPTICLE OUTLET. PER CEC210.11(C)(2) & 210.52(F)
- 3. A DEDICATED 20-AMP CIRCUIT IS REQUIRED TO SERVE THE BATHROOM OUTLETS. THIS CIRCUIT CANNOT SUPPLY ANY OTHER RECEPTICLES, LIGHTS, FANS, ETC. (EXCEPTION -WHERE THE CIRCUIT SUPPLIES A SINGLE BATHROOM, OUTLETS FOR OTHER EQUIPMENT WITHIN THE SAME BATHROOM SHALL BE PERMITTED TO BE SUPPLIED.) IN NO CASE SHALL THE RECEPTICLE BE LOCATED MORE THAN 12" BELOW THE TOP OF THE BASIN. PER CEC 210.11 (C)(3) & 210.52
- 4. ALL BRANCH CIRCUITS THAT SUPPLY OUTLETS INSTALLED IN DWELLING UNIT KITCHENS, FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DENS, BEDROOMS, SUNROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS, LAUNDRY AREAS, OR SIMILAR ROOMS OR AREAS SHALL BE PROTECTED BY AN ARC-FAULT CIRCUIT INTERRUPTER. PER CEC 210.12.
- 5. THERE SHALL BE MINIMUM ONE RECEPTICLE OUTLET AT THE KITCHEN ISLAND COUNTERS. PER CEC 210.52(C)(2).
- 6. ALL 15-AMP AND 20-AMP DWELLING UNIT RECEPTICLE OUTLETS SHALL BE LISTED TAMPER-RESISTANT RECEPTICLES. PER CEC ARTICLE 406.12



CALIFORNIA GREEN BUILDING STANDARDS - RESIDENTIAL MANDATORY MEASURES

Division 4.1 – PLANNING AND DESIGN

SECTION 4.101 GENERAL

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

SECTION 4.102 DEFINITIONS

4.102.1 Definitions. The following words and terms shall, for the purposes of this chapter and as used elsewhere in this code, have the meanings shown herein.

FRENCH DRAIN. A trench, hole or other depressed area loosely filled with rock, gravel, fragments of brick or similar pervious material used to collect or channel drainage or runoff

WATTLES. Wattles are used to reduce sediment in runoff. . Wattles are often constructed of natural plant materials such as hay, straw or similar material shaped in the form of tubes and placed on a downflow slope. Wattles are also used for perimeter and inlet controls.

SECTION 4.106 SITE DEVELOPMENT

4.106.1 General. Preservation and use of available natural resources shall be accomplished through evaluation and careful planning to minimize negative effects on the site and adjacent areas. Preservation of slopes, management of storm water drainage and erosion controls shall comply with this section.

4.106.2 Storm water drainage and retention during construction. Projects which disturb less than one acre of soil and are not part of a larger common plan of development which in total disturbs one acre or more, shall manage storm water drainage during construction. In order to manage storm water drainage during construction, one or more of the following measures shall be implemented to prevent flooding of adjacent property, prevent erosion and retain soil runoff on the site.

- 1. Retention basins of sufficient size shall be utilized to retain storm water on the site.
- 2. Where storm water is conveyed to a public drainage system, collection point, gutter or similar disposal method, water shall be filtered by use of a barrier system, wattle or other method approved by the enforcing agency.
- 3. Compliance with a lawfully enacted storm water management ordinance.

4.106.3 Surface drainage. The site shall be planned and developed to keep surface water from entering buildings. Construction plans shall indicate how the site grading or drainage system will manage surface water flows. Examples of methods to manage surface water include, but are not limited to, the following:

- 1. Swales
- 2. Water collection and disposal systems
- 3. French drains
- 4. Water retention gardens
- 5. Other water measures which keep surface water away from buildings and aid in groundwater recharge

EXCEPTION : ADDITIONS AND ALTERATIONS NOT ALTERING THE PRAINAGE PATH

Division 4.2 – ENERGY EFFICIENCY

SECTION 4.201 GENERAL

4.201.1 Scope. The Department of Housing and Community Development does not regulate mandatory energy efficiency standards in residential buildings. For the purposes of mandatory energy efficiency standards in this code, the California Energy Commission will continue to adopt mandatory building standards.

Note: It is the intent of this code to encourage buildings to achieve exemplary performance in the area of energy efficiency. For the purposes of energy efficiency standards, the California Energy Commission believes specifically, a green building should achieve at least a 15 percent reduction n energy usage when compared to the State's mandatory energy efficiency standards. The Department of Housing and Community Development's mandatory green building standards for residential buildings do not require compliance with levels of minimum energy efficiency beyond those required by the California Energy Commission. Division 4.3 - WATER EFFICIENCY AND CONSERVATION

SECTION 4.301 GENERAL

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

SECTION 4.302 DEFINITIONS

4.302.1 Definitions. Reserved.

SECTION 4.303 INDOOR WATER USE

4.303.1 Water conserving plumbing fixtures and fittings. Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall comply with the following:

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

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

4.303.1.2 Urinals. The effective flush volume of urinals shall not exceed 0.5 gallons per flush.

4.303.1.3 Showerheads

4.303.1.3.1 Single showerhead. Showerheads shall have a maximum flow rate of not more than 2.0 gallons per minute at 80 psi. Showerheads shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Showerheads.

4.303.1.3.2 Multiple showerheads serving one shower. When a shower is served by more than one showerhead, the combined flow rate of all showerheads and/or other shower outlets controlled by a single valve shall not exceed 2.0 gallons per minute at 80 psi, or the shower shall be designed to allow only one shower outlet to be in operation at a time.

Note: A hand-held shower shall be considered a showerhead 4.303.1.4 Faucets.

4.303.1.4.1 Residential lavatory faucets. The maximum flow rate of residential lavatory faucets shall not exceed 1.2 gallons per minute at 60 psi. The minimum flow rate of residential lavatory faucets shall not be less than 0.8 gallons per minute at 20 psi

4.303.1.4.2 Lavatory faucets in common and public use areas. The maximum flow rate of lavatory faucets installed in common and public use areas (outside of dwellings or sleeping units) in residential buildings shall not exceed 0.5 gallons per minute at 60 psi.

4.303.1.4.3 Metering faucets. Metering faucets when installed in residential buildings shall not deliver more than 0.25 gallons per cycle.

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

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

4.303.2 Standards for plumbing fixtures and fittings Plumbing fixtures and fittings shall be installed in accordance with the California Plumbing Code, and shall meet the applicable standards referenced in Table 1701.1 of the 2016 California Plumbing Code

OUTDOOR WATER USE

Landscape area equal to or greater than 500 square feet

- To comply with one of the following options:
- the current CA Dept. Water Resources Model Water Efficient Landscape Ordinance (MWELO)
- B. Projects with an aggregate landscape area less Than 2,500 square feet may comply with the MWELO's Appendix D Prescriptive Compliance

Division 4.4 - MATERIAL CONSERVATION AND **RESOURCE EFFICIENCY**

SECTION 4.401 GENERAL

4.401.1 Scope. The provisions of this chapter shall outline means of achieving material conservation and resource efficiency through protection of buildings from exterior moisture: construction waste diversion; employment of techniques to reduce pollution through recycling of materials; and building commissioning or testing, adjusting and balancing.

SECTION 4.402 DEFINITIONS

4.402.1 Definitions. The following words and terms shall, for the purposes of this chapter and as used elsewhere in this code. have the meanings shown herein.

> SECTION 4.403 FOUNDATION SYSTEMS (Reserved)

SECTION 4.404 **EFFICIENT FRAMING TECHNIQUES** Reserved

SECTION 4.405

MATERIAL SOURCES (Reserved)

SECTION 4.406 ENHANCED DURABILITY AND REDUCED MAINTENANCE

4-A66.1 ROPENT: 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.

SECTION 4.407

WATER RESISTANCE AND MOISTURE MANAGEMENT (Reserved)

SECTION 4.408 CONSTRUCTION WASTE REDUCTION. DISPOSAL AND RECYCLING

4.408.1 Construction waste reduction of at least 65% Recycle and/or salvage for reuse a minimum of 65% of the nonhazardous construction and demolition debris, or meet a local construction and demolition waste management ordinance, whichever is more stringent.

Exceptions:

- 1. Excavated soil and land-clearing debris.
- 2. Alternate waste reduction methods developed by working with local agencies if diversion or recycle facilities capable of compliance with this item do not exist or are not located reasonably close to the

4.408.2 Construction waste management plan. Where a local jurisdiction does not have a construction and demolition waste management ordinance, a construction waste management plan shall be submitted for approval to the enforcing agency that:

- 1. Identifies the materials to be diverted from disposal by recycling, reuse on the project or salvage for future use or
- 2. Specifies if materials will be sorted on-site or mixed for transportation to a diversion facility.
- 3. Identifies the diversion facility where the material collected will be taken.
- 4. Identifies construction methods employed to reduce the amount of waste generated.
- 5. Specifies that the amount of materials diverted shall be calculated by weight or volume, but not by both.

SECTION 4.304

4.304.1 Residential development with an aggregate

- A. Local water efficient landscape ordinance or
- Whichever is more stringent, or
- Option

SECTION 4.305 WATER REUSE SYSTEMS

(Reserved)

4.408.2.1 Documentation. Documentation shall be pro-- vided to the enforcing agency which demonstrates compliance with Section 4.408.2, Items 1 through 5. The waste management plan shall be updated as necessary and shall be accessible during construction for examination by the enforcing agency.

4.408.2.2 Isolated jobsites. The enforcing agency may make exceptions to the requirements of this section when jobsites are located in areas beyond the haul boundaries of the diversion facility.

Notes:

- 1. Sample forms found in Chapter 8 may be used to assist in documenting compliance with the waste management plan.
- 2. Mixed construction and demolition debris (C&D) processors can be located at the California Department of Resources Recycling and Recovery (CalRecycle).

4.408.4 Waste stream reduction alternative (LR). Projects that generate a total combined weight of construction and demolition waste disposed of in landfills, which do not exceed four (4) lbs/sq. ft. of the building area shall meet the minimum

50 percent construction waste reduction requirement in Section 4,408.1 4.408 4.1 Waste stream reduction alternative. Projects

that generate a total combined weight of construction and demolition waste disposed in landfills, which do not exceed two (2) pounds per square foot of the building area shall meet the minimum 50 percent construction waste requirement in Section 4.408.1

4.408.5 Documentation. Documentation shall be provided to the enforcing agency which demonstrates compliance with Section 4.408.2 Items 1 through 5. Section 4.408.3 or 4.408.4

- 1. Sample forms found in: "A guide to the California Green Building Standards Code (Residential)" located at www.hch.ca.gov?CALGREEN.html may be used to assist in documenting compliance with this section
- 2. Mixed construction and demolition debris (C&D) processors can be located at the California Department of Resources Recycling and Recovery

SECTION 4.409 LIFE CYCLE ASSESSMENT Reserved

SECTION 4.410

BUILDING MAINTENANCE AND OPERATION 4.410.1 Operation and maintenance manual. At the time of final inspection, a manual, compact disc, web-based reference

- or other media acceptable to the enforcing agency which includes all of the following shall be placed in the building: 1. Directions to the owner or occupant that the manual
- shall remain with the building throughout the life cycle of the structure. 2. Operation and maintenance instructions for the follow-
- a. Equipment and appliances, including water-saving devices and systems, HVAC systems, water-heating systems and other major appliances and equi
- ment. b. Roof and yard drainage, including gutters and downspouts.
- c. Space conditioning systems, including condensers and air filters.

d. Landscape irrigation systems.

- e. Water reuse systems.
- 3. Information from local utility, water and waste recovery providers on methods to further reduce resource consumption, including recycle programs and locations.
- 4. Public transportation and/or carpool options available in the area.
- 5. Educational material on the positive impacts of an interior relative humidity between 30-60 percent and what methods an occupant may use to maintain the relative humidity level in that range.
- 6. Information about water-conserving landscape and irrigation design and controllers which conserve water.
- 7. Instructions for maintaining gutters and downspouts and the importance of diverting water at least 5 feet away from the foundation.
- Information on required routine maintenance measures, including, but not limited to, caulking, painting,
- grading around the building, etc. 9. Information about state solar energy and incentive programs available.
- 10. A copy of all special inspection verifications required
- by the enforcing agency or this code.

Division 4.5 - ENVIRONMENTAL QUALITY

SECTION 4.501 GENERAL

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

SECTION 4.502 DEFINITIONS

4.502.1 Definitions. The following words and terms shall, for the purposes of this chapter and as used elsewhere in this code, have the meanings shown herein.

AGRIFIBER PRODUCTS. Agrifiber products include wheatboard, strawboard, panel substrates and door cores, not including furniture, fixtures and equipment (FF&E) not considered base building elements.

COMPOSITE WOOD PRODUCTS. Composite wood products include hardwood plywood, particleboard and medium density fiberboard. Composite wood products do not include hardboard, structural plywood, structural panels, structural composite lumber, oriented strand board, glued laminated timber as specified in "Structural Glued Laminated Timber" (ANSI A190.1-2002) or prefabricated wood I-joists.

MAXIMUM INCREMENTAL REACTIVITY (MIR). The maximum change in weight of ozone formed by adding a compound to the "base reactive organic gas (ROG) mixture" per weight of compound added, expressed to hundredths of a gram (g O3/g ROC).

Note: MIR values for individual compounds and hydrocarbon solvents are specified in CCR, Title 17, Sections 94700 and 94701.

MOISTURE CONTENT. The weight of the water in wood expressed in percentage of the weight of the oven-dry wood.

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

Note: PWMIR is calculated according to equations found in CCR, Title 17, Section 94521(a). REACTIVE ORGANIC COMPOUND (ROC). Any com-

pound that has the potential, once emitted, to contribute to ozone formation in the troposphere. VOC. A volatile organic compound broadly defined as a chem-

ical compound based on carbon chains or rings with vapor pressures greater than 0.1 millimeters of mercury at room temperature. These compounds typically contain hydrogen and nay contain oxygen, nitrogen and other elements. See CCR Title 17, Section 94508(a).

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

SECTION 4.503 FIREPLACES

4.503.1 General. Any installed gas fireplace shall be a direct-vent sealed-combustion type. Any installed woodstove or pellet stove shall comply with U.S. EPA Phase II emission limits where applicable. Woodstoves, pellet stoves and fireplaces shall also comply with applicable local ordinances.

SECTION 4.504 POLLUTANT CONTROL

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

4.504.2 Finish material pollutant control. Finish materials shall comply with this section. 4.504.2.1 Adhesives, sealants and caulks. Adhesives,

sealants and caulks used on the project shall meet the requirements of the following standards unless more strin-

- gent local or regional air pollution or air quality management district rules apply: 1. Adhesives, adhesive bonding primers, adhesive primers, sealants, sealant primers, and caulks shall comply
- with local or regional air pollution control or air quality management district rules where applicable or SCAOMD Rule 1168 VOC limits, as shown in Table 4.504.1 or 4.504.2, as applicable. Such products also shall comply with the Rule 1168 prohibition on the use of certain toxic compounds (chloroform, ethylene dichloride, methylene chloride, perchloroethylene and trichloroethylene), except for aerosol products, as specified in Subsection 2 below.
- 2. Aerosol adhesives, and smaller unit sizes of adhesives and sealant or caulking compounds (in units of product, less packaging, which do not weigh more than 1 pound and do not consist of more than 16 fluid ounces) shall comply with statewide VOC standards and other requirements, including prohibitions on use of certain toxic compounds, of California Code of Regulations, Title 17, commencing with Section 94507.

4.504.2.2 Paints and coatings. Architectural paints and coatings shall comply with VOC limits in Table 1 of the ARB Architectural Suggested Control Measure, as shown in Table 4.504.3, unless more stringent local limits apply. The VOC content limit for coatings that do not meet the definitions for the specialty coatings categories listed in Table 4.504.3 shall be determined by classifying the coating as a Flat, Nonflat or Nonflat-High Gloss coating, based on its gloss, as defined in subsections 4.21, 4.36, and 4.37 of the 2007 California Air Resources Board, Suggested Control Measure, and the corresponding Flat, Nonflat or Nonflat-High Gloss VOC limit in Table 4.504.3 shall

4.504.2.3 Aerosol paints and coatings. Aerosol paints and coatings shall meet the Product-Weighted MIR Limits for ROC in Section 94522(a)(3) and other requirements, including prohibitions on use of certain toxic compounds and ozone depleting substances, in Sections 94522(c)(2) and (d)(2) of California Code of Regulations, Title 17, commencing with Section 94520; and in areas under the jurisdiction of the Bay Area Air Quality Management District additionally comply with the percent VOC by weight of product limits of Regulation 8, Rule 49.

4.504.2.4 Verification. Verification of compliance with this section shall be provided at the request of the enforcing agency. Documentation may include, but is not limited to, the following:

1. Manufacturer's product specification.

2. Field verification of on-site product containers. I If an admemory went to hand dicermilar embetratas mosthes the adhesing 4.504.3 Carpet systems. All carpet installed in the building interior shall meet the testing and product requirements of one of the following:

- 1. Carpet and Rug Institute's Green Label Plus Program.
- 2. California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.1, February 2010 (also known as Specification 01350.)
- . NSF/ANSI 140 at the Gold level.
- 4. Scientific Certifications Systems Indoor Advantage¹⁷ Gold 4.504.3.1 Carpet cushion. All carpet cushion installed in
- the building interior shall meet the requirements of the Carpet and Rug Institute's Green Label program.

4.504.3.2 Carpet adhesive. All carpet adhesive shall meet the requirements of Table 4.504.1.

4.504.4 Resilient flooring systems. Where resilient flooring is installed, at least 80 percent of floor area receiving resilient flooring shall comply with one or more of the following:

- 1. VOC emission limits defined in the Collaborative for High Performance Schools (CHPS) High Performance
- Products Database. 2. Products compliant with CHPS criteria certified under the Greenguard Children & Schools program.
- 3. Certification under the Resilient Floor Covering Institute (RFCI) FloorScore program.
- 4. Meet the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers." Version 1.1, February

2010 (also known as Specification 01350).

ARCHITECTURAL APPLICATIONS	CURRENT VOC LIMIT		
ndoor carpet adhesives	50		
Carpet pad adhesives	50		
Dutdoor carpet adhesives	150		
Wood flooring adhesive	100		
Rubber floor adhesives	60		
Subfloor adhesives	50		
Ceramic tile adhesives	65		
VCT and asphalt tile adhesives	50		
Drywall and panel adhesives	50		
Cove base adhesives	50		
Multipurpose construction adhesives	70		
Structural glazing adhesives	100		
Single-ply roof membrane adhesives	250		
Other adhesives not specifically listed	50		
SPECIALTY APPLICATIONS			
PVC welding	510		
CPVC welding	490		
ABS welding	325		
Plastic cement welding	250		
Adhesive primer for plastic	550		
Contact adhesive	80		
Special purpose contact adhesive	2.50		
Structural wood member adhesive			
Top and trim adhesive 250			
SUBSTRATE SPECIFIC APPLICATIONS			
Metal to metal	30		
Plastic foams	50 :		
Porous material (except wood)	50		
Wood	30		
Fiberglass	80		

TABLE 4.504. ADHESIVE VOC LIMIT^{1,2}

1. If an adhesive is used to bond dissimilar substrates together, the adhesive with the highest VOC content shall be allowed. For additional information regarding methods to measure the VOC content specified in this table, see South Coast Air Quality Management District Rule 1168.

TABLE 4.504.2 SEALANT VOC LIMIT

SEALANTS	CURRENT VOC LIMIT	
Architectural	250	
Marine deck	760	
Nonmembrane roof	300	
Roadway	250	
Single-ply roof membrane	450	
Other	420	
SEALANT PRIMERS		
Architectural Nonporous Porous	250 775	
Modified bituminous	500	
Marine deck	760	
Other	750	

TABLE 4.504.3 VOC CONTENT LIMITS FOR ARCHITECTURAL COATINGS^{2,3} Grams of VOC per Liter of Coating,

COATING CATEGORY	EFFECTIVE	EFFECTIVE
Flat coatings	50	
Nonflat coatings	100	1
Nonflat-high gloss coatings	150	
Specialty Coatings		
Aluminum roof coatings	400	1
Basement specialty coatings	400	
Bituminous roof coatings	50	
Bituminous roof primers	350	
Bond breakers	350	
Concrete curing compounds	350	
Concrete/masonry sealers	100	
Driveway sealers	50	1
Dry fog coatings	150	
Faux finishing coatings	350	
Fire resistive coatings	350	1
Floor coatings	100	
Form-release compounds	250	
Graphic arts coatings (sign paints)	. 500	1000
High temperature coatings	420	
Industrial maintenance coatings	250	-
Low solids coatings'	120	1 1 1 1 1 1 1 1
Magnesite cement coatings	450	
Mastic texture coatings	100	-
Metallic pigmented coatings	500	
Multicolor coatings	250	
Pretreatment wash primers	420	
Primers, sealers, and undercoaters	100	
Reactive penetrating sealers	350	-
Recycled coatings	250	-
Roof coatings	50	
Rust preventative coatings	400	250
Shellacs	100	
Clear	730	2 2
Opaque	550	-
Specialty primers, sealers and undercoaters	350	100
Staint	250	
Stone consolidants	450	-
Swimming pool coatings	340	
Traffic marking coatings	100	
Tub and tile refinish coatings	420	
Waterproofing membranes	- 250	
Wood coatings	275	
Wood preservatives Zinc-rich primers	350	

1. Grams of VOC per liter of coating, including water and including exempt 2. The specified limits remain in effect unless revised limits are listed in subse-

quent columns in the table. 8. Values in this table are derived from those specified by the California Air Resources Board, Architectural Contings Suggested Control Measure, February 1, 2008. More information is available from the Air Resources

4.504.5 Composite wood products. Hardwood plywood, particleboard and medium density fiberboard composite wood products used on the interior or exterior of the building shall meet the requirements for formaldehyde as specified in ARB's Air Toxics Control Measure for Composite Wood (17 CCR 93120 et seq.), by or before the dates specified in those sections, as shown in Table 4.504.5.

TABLE 4.504.5

PRODUCT	CURRENT LIMIT
Hardwood plywood veneer core	0.05
Hardwood plywood composite core	0.05
Particleboard	0.09
Medium density fiberboard	0.11
Thin medium density fiberboard ²	0.13

2. Thin medium density fiberboard has a maximum thickness of 1/1 inch (8 mm).

SECTION 4.505 INTERIOR MOISTURE CONTROL

sions of the California Building Standards Code.

4.505.2 Concrete slab foundations. Concrete slab foundations required to have a vapor retarder by the California Building Code, Chapter 19 or concrete slab-on-ground floors required to have a vapor retarder by the California Residential Code, Chapter 5, shall also comply with this section. 4.505.2.1 Capillary break. A capillary break shall be

- 302.2R-06.

- 4.505.3 Moisture content of building materials. Building
- Section 101.8 of this code.
- each piece to be verified.

Insulation products which are visibly wet or have a high moisture content shall be replaced or allowed to dry prior to enclosure in wall or floor cavities. Wet-applied insulation products shall follow the manufacturers' drying recommendations prior to enclosure.

SECTION 4.506 INDOOR AIR QUALITY AND EXHAUST

4.506.1 Bathroom exhaust fans. Mechanical exhaust fans which exhaust directly from bathrooms shall comply with the following:

- to terminate outside the building.

combination.

ware or methods.

4.505.1 General. Buildings shall meet or exceed the provi-

installed in compliance with at least one of the following: 1. A 4-inch-thick (101.6 mm) base of 1/, inch (12.7 mm) or larger clean aggregate shall be provided with a vapor retarder in direct contact with concrete and a concrete mix design, which will address bleeding, shrinkage, and curling, shall be used. For additional information, see American Concrete Institute, ACI

2. Other equivalent methods approved by the enforcing

3. A slab design specified by a licensed design profes-

materials with visible signs of water damage shall not be installed. Wall and floor framing shall not be enclosed when the framing members exceed 19-percent moisture content. Moisture content shall be verified in compliance with the following: 1. Moisture content shall be determined with either a probe-type or contact-type moisture meter. Equivalent moisture verification methods may be approved by the enforcing agency and shall satisfy requirements found in

2. Moisture readings shall be taken at a point 2 feet (610 mm) to 4 feet (1219 mm) from the grade stamped end of

3. At least three random moisture readings shall be performed on wall and floor framing with documentation acceptable to the enforcing agency provided at the time of approval to enclose the wall and floor framing.

1. Fans shall be ENERGY STAR compliant and be ducted

2. Unless functioning as a component of a whole house ventilation system, fans must be controlled by a. humidistat which shall be readily accessible.

Humidistat controls shall be capable of adjustment between a relative humidity range of 50 to 80 percent.

Note: For the purposes of this section, a bathroom is a room which contains a bathtub, shower or tub/shower

SECTION 4 507 ENVIRONMENTAL COMFORT

4.507.1 Openings. Whole house exhaust fans shall have ins lated louvers or covers which close when the fan is off. Covers or louvers shall have a minimum insulation value of P. 4.2-4.507.2 Heating and air-conditioning system design. Heat

ing and air-conditioning systems shall be sized, designed and have their equipment selected using the following methods: 1. The heat loss and heat gain is established according to ACCA Manual J. ASHRAE handbooks or other equivalent design software or methods.

2. Duct systems are sized according to ACCA 29-D Manual D, ASHRAE handbooks or other equivalent design software or methods. 3. Select heating and cooling equipment according to

ACCA 36-S Manual S or other equivalent design soft-Exception: Use of alternate design temperatures necessary

to ensure the systems function are acceptable.

SECTION 4.508 OUTDOOR AIR QUALITY (Reserved)

SECTION 301 GENERAL

301.1 Scope. Buildings shall be designed to include the green building measures specified as mandatory in the application checklists contained in this code. Voluntary green building measures are also included in the application checklists and may be included in the design and construction of structures covered by this code, but are not required unless adopted by a city, county, or city and county as specified in Section 101.7. 301.1.1 Additions and alterations. [HCD] The manda-

tory provisions of Chapter 4 shall be applied to additions or alterations of existing residential buildings where the addition or alteration increases the building's conditioned area, volume, or size. The requirements shall apply only to and/or within the specific area of the addition or alteration.

Note: On and after January 1, 2014, residential buildings undergoing permitted alterations, additions or improvements shall replace noncompliant plumbing fixtures with water-conserving plumbing fixtures. Plumbing fixture replacement is required prior to issuance of a certificate of final completion, certificate of occupancy or final permit approval by the local building department. See Civil Code Section 1101.1, et seq., for the definition of a noncompliant plumbing fixture, types of residential buildings affected and other important enactment dates.

resic	dential	ma	ndatory
			standard

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Revisions:

Sheet

GI.C

STRUCTURAL SPECIFICATIONS

SHEATHING

ALL SHEATHING SHALL CONFORM TO U.S. PRODUCT STANDARD PS 1, AMERICAN PLYWOOD ASSOCIATION. EACH SHEET SHALL BE STAMPED WITH THE PS AND/OR APA GRADEMARK.

ROOF SHEATHING

- SHALL BE MINIMUM 1/2" OSB OR 3 PLY INTERIOR TYPE RATED SHEATHING, C-D GRADE WITH EXTERIOR GLUE (CDX-EXPOSURE 1), SPAN RATING 32/16, SPECIES GROUP 2 OR BETTER.
- WALL SHEATHING

- SHALL BE MINIMUM 1/2" OSB OR 3 PLY INTERIOR TYPE RATED SHEATHING, C-D GRADE WITH EXTERIOR GLUE (CDX-EXPOSURE 1), SPAN RATING 24/0, SPECIES GROUP 2 OR BETTER.

FLOOR SHEATHING

– SHALL BE MINIMUM 3/4" OSB OR 4 PLY INTERIOR TYPE RATED SHEATHING, C-D GRADE WITH EXTERIOR GLUE (CDX-EXPOSURE 1), SPAN RATING 48/24, SPECIES GROUP 2 OR BETTER. ALL SHEATHING PERMANENTLY EXPOSED TO WEATHER SHALL BE EXTERIOR TYPE SHEATHING VS. INTERIOR TYPE

SHEATHING AS REFERENCED ABOVE.

ALL UNBLOCKED SHEATHING EDGES SHALL BE TONGUE-AND-GROOVE OR SUPPORTED WITH CLEATS OR CLIPS. FRAMING

DOUGLAS FIR COAST REGION. CONFORMING TO WEST COAST LUMBER INSPECTION BUREAU STANDARD GRADING AND DRESSING RULE NO. 17 AS AMENDED TO DATE.

- 1. 2x, 3x, PLATES, JOISTS, AND PURLINS NO.2 (900F-b), PARA. 123-a.
- 2. 4x, PURLINS, LEDGERS, AND BEAMS, NO.1 (1000F-b), PARA. 123-b.
- 3. 6x BEAMS, DENSE NO.1 (1550F-b), PARA. 130-bb.
- 4x4 POSTS, NO.1 (1500F-c), PARA. 124-b. 4.
- 4x6 POSTS, NO.1 (1500F-c), PARA. 123-b. 5.
- 6x6 AND LARGER POSTS, DENSE NO.1 (1200F-c), PARA. 131-bb. 6.
- 7. 2x4, 3x4, STUDS BLOCKING, CONSTRUCTION GRADE, (1000F-b), PARA. 122-b.
- 8. 2x6 OR LARGER STUDS AND BLOCKING NO.1 (1000F-b), PARA. 123-b.
- FOUNDATION PLATES: SBX/DOT OR ZINC BORATE PRESSURE TREATED DOUGLAS FIR. 9.

ALL FRAMING LUMBER 6" OR LARGER IN THE LEAST DIMENSION SHALL BE F.O.H.C.

PARALLAMS / MICROLLAMS / TJI'S

PARALLAMS, MICROLLAMS AND TJI'S SHALL BE MANUFACTURED BY WEYERHAEUSER. PARALLAM AND MICROLLAM CONSTRUCTION SHALL BE IN ACCORDANCE WITH ICBO REPORT ESR-1387.

LIGHT GAGE METAL CONNECTORS

ALL LIGHT GAGE METAL CONNECTORS SHALL BE SIMPSON COMPANY STRONG TIE CONNECTORS, UNLESS NOTED OTHERWISE ON THE DRAWINGS.

CONCRETE

ALL CONCRETE SHALL HAVE PROPERTIES AS LISTED BELOW. MAXIMUM WATER-CEMENT RATIO, BY WEIGHT SHALL BE AS FOLLOWS:

	W/O FLY ASH	W/ UP TO 15% FLY ASH
5000 PSI CONCRETE AT 28 DAYS	.48	0.43
4000 PSI CONCRETE AT 28 DAYS	.55	0.5
3500 PSI CONCRETE AT 28 DAYS	.55	0.5
3000 PSI CONCRETE AT 28 DAYS	.55	0.5
2500 PSI CONCRETE AT 28 DAYS	.55	0.5
2000 PSI CONCRETE AT 28 DAYS	.67	0.60

APPROXIMATELY 3 OUNCES PER SACK OF CEMENT OF POZZOLITH 300R OR APPROVED EQUAL SHALL BE USED AS A WATER DISPERSING ADDITIVE. AT CONTRACTOR'S OPTION, AN AIR ENTRAINING AGENT CONFORMING TO THE LATEST REVISION OF ASTM SPECIFICATION C 260 MAY BE ADDED TO THE CONCRETE TO PROVIDE SPECIFIED AMOUNTS OF ENTRAINED AIR.

CONCRETE ELEMENT	MIN. 28 DAY COMPRESSIVE STRENGTH	MAX. SIZE AGGREGATE (INCHES)	MAX. SLUMP	TOTAL AIR CONTENT
FOOTINGS	*3000	3/4	4	%
SLAB ON GRADE	*3000	3/4	4	4%±1.5%
YARD CONCRETE, WALKS, AND CURBS	2000	3/4	4	

*2500 PSI USED FOR DESIGN, NO SPECIAL INSPECTION REQUIRED

REINFORCING STEEL

BARS FOR REINFORCING SHALL BE GRADE 60 DEFORMED BARS CONFORMING TO ASTM A-615 INCLUDING SUPPLEMENT S1. LAP SPLICES SHALL BE IN ACCORDANCE WITH ACI 318 UNLESS NOTED OTHERWISE ON THE PLANS.

SLAB MEMBRANE – 15 MIL. POLYETHYLENE FILM.

NON-SHRINK GROUT

NON-SHRINK GROUT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 5000 PSI AND SHALL BE AS MANUFACTURED BY SAKRETE OR APPROVED EQUAL.

ADHESIVE ANCHORING FOR CONCRETE

EPOXY ADHESIVE SHALL BE HILTI HIT-RE 500-V3 ADHESIVE ICC REPORT ESR-3814 OR SIMPSON SET-XP EPOXY ADHESIVE ICC REPORT ESR-2508. THE PROPORTIONS SHALL BE AS RECOMMENDED BY THE MANUFACTURER FOR THE CONDITION AND USE. PREPARATION OF CONCRETE INCLUDING DRILLING OF HOLES FOR ANCHORS AS WELL AS EPOXY ANCHOR INSTALLATION SHALL BE AS RECOMMENDED BY THE MANUFACTURER.

STRUCTURAL STEEL AND MISCELLANEOUS IRON

ALL STRUCTURAL STEEL AND MISCELLANEOUS IRON SHALL RECEIVE SHOP PRIME COAT.

- INDIVIDUAL SPECIFICATIONS ARE AS FOLLOWS. 1.) <u>WIDE FLANGE</u> – ASTM A992, Fy=50 ksi
 - 2.) HOLLOW STRUCTURAL STEEL AND TUBE STEEL ASTM A500, GRADE B, Fy = 46ksi 3.) <u>MISCELLANEOUS IRON</u> – ASTM A36M Fy = 36ksi

MACHINE BOLTS. ANCHOR BOLTS AND STUDS ASTM A307

THREADED RODS ASTM F1554 GRADE A36

WELDING

ALL WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS PER AWS "STANDARD QUALIFICATION PROCEDURE" TO PERFORM THE TYPE OF WORK REQUIRED. ALL WELDING SHALL BE IN ACCORDANCE WITH AWS WELDING CODE. ARC WELDING ELECTRODES SHALL BE E70 SERIES. WELDING SHALL BE INSPECTED AS REQUIRED BY THE CALIFORNIA BUILDING CODE.

SHOP DRAWINGS FOR THE ENGINEERS REVIEW WILL BE REQUIRED AS FOLLOWS:

MIX DESIGNS; REINFORCING STEEL;

STRUCTURAL STEEL AND MISCELLANEOUS METALS: DRAWINGS HAVE BEEN REVIEWED BY THE ENGINEER.

CONSTRUCTION LIABILITY

CONSTRUCTION CONTRACTOR AND HIS SUBCONTRACTORS AGREE THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR AND HIS SUBCONTRACTORS WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR AND HIS SUBCONTRACTORS FURTHER AGREE TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPT LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL.

EXISTING CONDITIONS

THE CONTRACTOR OR SUBCONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING OF THE ENGINEER IMMEDIATELY.

CONTRACTOR SHALL SUBMIT THREE SETS OF PRINTS FOR REVIEW. FABRICATION SHALL NOT PROCEED UNTIL SHOP

CONSTRUCTION AND OR ORDERING MATERIAL, ANY DISCREPANCIES DISCOVERED SHALL BE BROUGHT TO THE ATTENTION

SPECIAL INSPECTIONS

THE OWNER SHALL EMPLOY A SPECIAL INSPECTOR DURING CONSTRUCTION ON THE FOLLOWING TYPES OF WORK: CONCRETE (FOR PIER ONLY)

- DURING THE TAKING OF TEST SPECIMENS AND PLACING OF ALL REINFORCED CONCRETE AND PNEUMATICALLY _ PLACED CONCRETE.
 - EXCEPTIONS:
 - 1. CONCRETE FOR FOUNDATIONS FOR STUD BEARING WALLS (EXCLUDING PIERS AND CAISSONS).
 - 2. CONCRETE FOR FOUNDATIONS WITH fc EQUAL TO 2500 PSI OR LESS.
 - 3. CONCRETE FOR SLABS ON GRADE.
- 4. SITE CONCRETE FULLY-SUPPORTED ON EARTH.
- **REINFORCING STEEL (FOR PIER ONLY)**

- PERIODICALLY, DURING THE PLACING OF REINFORCING STEEL FOR ALL CONCRETE REQUIRED TO HAVE SPECIAL INSPECTION.

WELDING

- DUCTILE MOMENT-RESISTING STEEL FRAMES. AS REQUIRED BY THE APPLICABLE SECTION OF THE 2013 C.B.C. - ALL STRUCTURAL WELDING, INCLUDING WELDING OF REINFORCING STEEL.
 - EXCEPTIONS:
 - 1. WELDING DONE IN A FABRICATOR'S SHOP, APPROVED BY THE CITY BUILDING OFFICIAL.
 - 2. SINGLE PASS FILLET WELDS MAY HAVE PERIODIC INSPECTION PER C.B.C. NOTED OTHERWISE UNLESS ON THE CONTRACT DRAWINGS.

ADHESIVE ANCHORS

DURING ALL ADHESIVE ANCHORING INSTALLATIONS.

SPECIAL INSPECTOR

THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE HIS COMPETENCE, TO THE _ SATISFACTION OF THE BUILDING OFFICIAL, FOR INSPECTION OF A PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION.

DUTIES AND RESPONSIBILITIES OF THE SPECIAL INSPECTOR

- THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK ASSIGNED FOR CONFORMANCE WITH THE APPLICABLE _ DESIGN DRAWINGS AND SPECIFICATIONS.
- THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, THE ENGINEER OR ARCHITECT OF RECORD, AND OTHER DESIGNATED PERSONS. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, THEN, IF UNCORRECTED, THE PROPER DESIGN AUTHORITY AND TO THE BUILDING OFFICIAL.
- THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL SIGNED REPORT STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS, TO THE BEST OF HIS KNOWLEDGE, IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS AND THE APPLICABLE WORKMANSHIP PROVISION OF THIS CODE.

RISK CATEGORY = II I = 1.0 Ss = 2.355g Si = 0.881g SITE CLASS D Fo = 1.2 Fv = 1.7 Sws = 2.826g Swin = 1.50g Sos = 1.884g Son = 0.80g R = 6.5 SDC = E Vuero = 0.290 W Vaso = 0.203 W WIND: SPEED SPEED = 110 MPH EXPOSURE = B I = 1.0 DEAD LIVE ROOF LOAD (NON-VAULTED) 14.0 PSF 20.0 PSF CEILING LOAD 10.0 PSF 2nd FLOOR LOAD 17.0 PSF 40.0 PSF 2nd FLOOR LOAD 11.0 PSF 40.0 PSF	ISMIC FORCE-RESISTANCE SYST - LIGHT FRAME WALLS SHEATHE FOR SHEAR RESISTANCE		RUCTURAL PANELS
Ss = 2.355g S1 = 0.881g SITE CLASS = D Fa = 1.2 Fv = 1.7 Sws = 2.826g Swit = 1.50g Sos = 1.884g Soi = 0.80g R = 6.5 SDC = E Viero = 0.290 W Vaso = 0.203 W WIND:			
S1 = 0.881g SITE CLASS = D Fa = 1.2 Fv = 1.7 Sws = 2.826g Swit = 1.50g Sos = 1.884g Soi = 0.80g R = 6.5 SDC = E Vuero = 0.290 W Vaso = 0.203 W WIND:			
SITE CLASS = D F_a = 1.2 F_v = 1.7 Sws = 2.826g Swin = 1.50g Sos = 1.884g Soi = 0.80g R = 6.5 SDC = E Vurro = 0.290 W Vaso = 0.203 W WIND:			
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CEILING LOAD 10.0 PSF 10.0 PSF 2nd FLOOR LOAD 17.0 PSF 40.0 PSF			
2nd FLOOR LOAD 17.0 PSF 40.0 PSF			
FOUNDATION BEARING PRESSURE PER 2019 CBC TABLE 1806.2			TABLE 1806.2
1500 PSF DEAD + LIVE LOADS	1500 PSF DEAD + LIVE	LUADS	

Work Point

Weight

BREVIATIONS		BLE OF CONTENTS	
Anchor bolt	SHEET	CONTENT	
At Aluminum	S0.0	STRUCTURAL SPECIFICATIONS	
Architect or Architectual Block		ABBREVIATIONS LEGEND SYMBOLS LEGEND	
Blocking Boundary Nailing par Schodule /Plan		TABLE OF CONTENTS	DUQUETTE
Boundary Nailing per Schedule/Plan Between	S0.1	NAILING SCHEDULE & STANDARD DETAILS	ENGINEERING
Channel Cantilevered	S0.2	SHEARWALL SCHEDULE &	
Centerline		WOOD SHEARWALL DETAILS	1171 HOMESTEAD ROAD, SUITE 275
Construction Joint or Cold Joint Complete Joint Penetration	S1.0	FOUNDATION PLAN	SANTA CLARA, CALIFORNIA 95050
Clear Column	S1.1	SECOND FLOOR / LOW ROOF / (N) BALCONY FRAMING PLAN	MAIN LINE: 408.615.9200 WEBSITE: www.duquette-eng.con
Collector	S1.2	CEILING FRAMING PLAN	
Concrete Connection	S1.3	UPPER ROOF FRAMING PLAN	
Continuous	S2.0	FOUNDATION & FRAMING DETAILS	
Concrete Masonry Unit Double	02.0	TOURDATION & TRAMING DETAILS	
Douglas Fir Diameter			
Drawing(s)			ED PROFESSIONA
Existing Each			P. DUQUER
Edge Fastening			
Elevation Embedment	S	YMBOLS LEGEND	() [™] ([™] EXP. 3-31-2023 [™]) [™]
Edge Nail per Shearwall Schedule Faual			*
Equal Exterior	SYMBOL	DESCRIPTION	STRUC THE OF CALIFORNIE
Each Way Foundation			OF CALIF
Finish Floor		-Detail No.	
Floor Field Nailing per Schedule	S2.1	-Sheet Location	
Free of Heart Center Full Penetration			
Framing	▲	-View Direction	
Footing Gage (Gauge)		- Section/Elevation No.	
Galvanized		-Section/Elevation No. -Sheet Location	OR PLAN CHECK
Galvanized Iron Glulam Beam			
Holdown Header		-Sheathed Face of Wall (Shaded)	
Hanger		-Shear Wall Type per Schedule,	
Horizontal High Strength Bolt(s)	6.0	See Detail 1 S0.2	RELEASED
Hollow Structural Section		-Shear Wall Length (FEET)	
Height Interior			
Intermediate Moment Resisting Frames Pounds			10-26-21
Laminated Strand Lumber		-Sheathed Face of Wall (Shaded)	
Laminated Veneer Lumber Long Leg Horizontal		-Shear Wall Type per Schedule,	0
Long Leg Vertical		See Detail (I) S0.2	
Maximum Machine Bolt(s)	6.0 P_	-Pier Length (FEET)	
Miscellaneous Channel Mechanical		_Indicates Force—Transfer Shear Wall,	
Manufacturer		See Detail 9	
Minimum New		30.2	
Not To Scale			nce load
Over On Center		-Plate Fastening Type per Schedule,	enc 512
Ordinary Moment Resisting Frame Outside Face		See Detail 1 S0.2	
Opposite Hand			ier Resic Remodel Almader Jose, CA
Oriented Strand Board Plate		.	en R
Plywood	HD	-Etc Indicates Pre-Manufactured Proprietary Hardware by Simpson	l ne Jos A Sol
Partial Joint Penetration Partial Penetration		Strong—Tie Inc. Model Number enclosed within Box.	Derm 20530 San J
Parallel Strand Lumber Pressure Treated Douglas Fir			Ñ G D
Pressure Treated Douglas Fir Reinforcing or Reinforcement		-Indicates Degree of Slopp	
Require or Required Redwood	1/4 SLOPE	-Indicates Degree of Slope	
See Architectural Drawings		-Indicates Sloped Beam, Slab,	
Section Sheet		or Deck. Arrowhead indicates direction.	5
Similar Sill Nail			PROJECT
Special Moment Resisting Frame	6'-0"±	-Indicates estimated dimension.	
Specifications Square		For Exact Dimension see Architect	mer ∍ 30
Stainless Steel			yl Dermei Architect venue A551
Standard Pipe Extra Strong Pipe	G	Indicates 2x with strut from roof to wall below or from ceiling	
Double Extra Strong Pipe		to roof above	d Cher / Plett Bean / atos, (
Staggered Standard			IONS Joe and 213 B Los Gat
Stiffener Steel		-Indicates Field Weld, Shop Weld when not shown.	Loe C/o
Top and Bottom		,	
Tongue and Groove Toe Nail	1/4	≺TYP.—— Weld Notes	
Top of Concrete or Top of Curb		- Weld Type	RAL SPECIF TIONS LEG LEGEND CONTENTS
Top of Plywood Top of Steel		-Weld Size -Weld all sides	IRAL SPEC ATIONS LE S LEGEND JP SPD SPD
Tube Steel Typical		Refer to AISC, Latest Edition,	
Unless Noted Otherwise		for All Weld Types & Symbols	
Vertical Verify In Field	_	Paviaian Number	SHEFT CONTENT SHEFT CONTENT STRUCTURAL SPECIFICATIONS ABBREVIATIONS LEGEND SYMBOLS LEGEND SYMBOLS LEGEND SYMBOLS LEGEND TABLE OF CONTENTS DESIGNED BY: JP DESIGNED BY: JP DESIGNED BY: JP DESIGNED BY: JP DESIGNED BY: SPD CHECKED BY: SPD CONTENT CON
With		-Revision Number	RIEL ORA OF STEEL
Without			

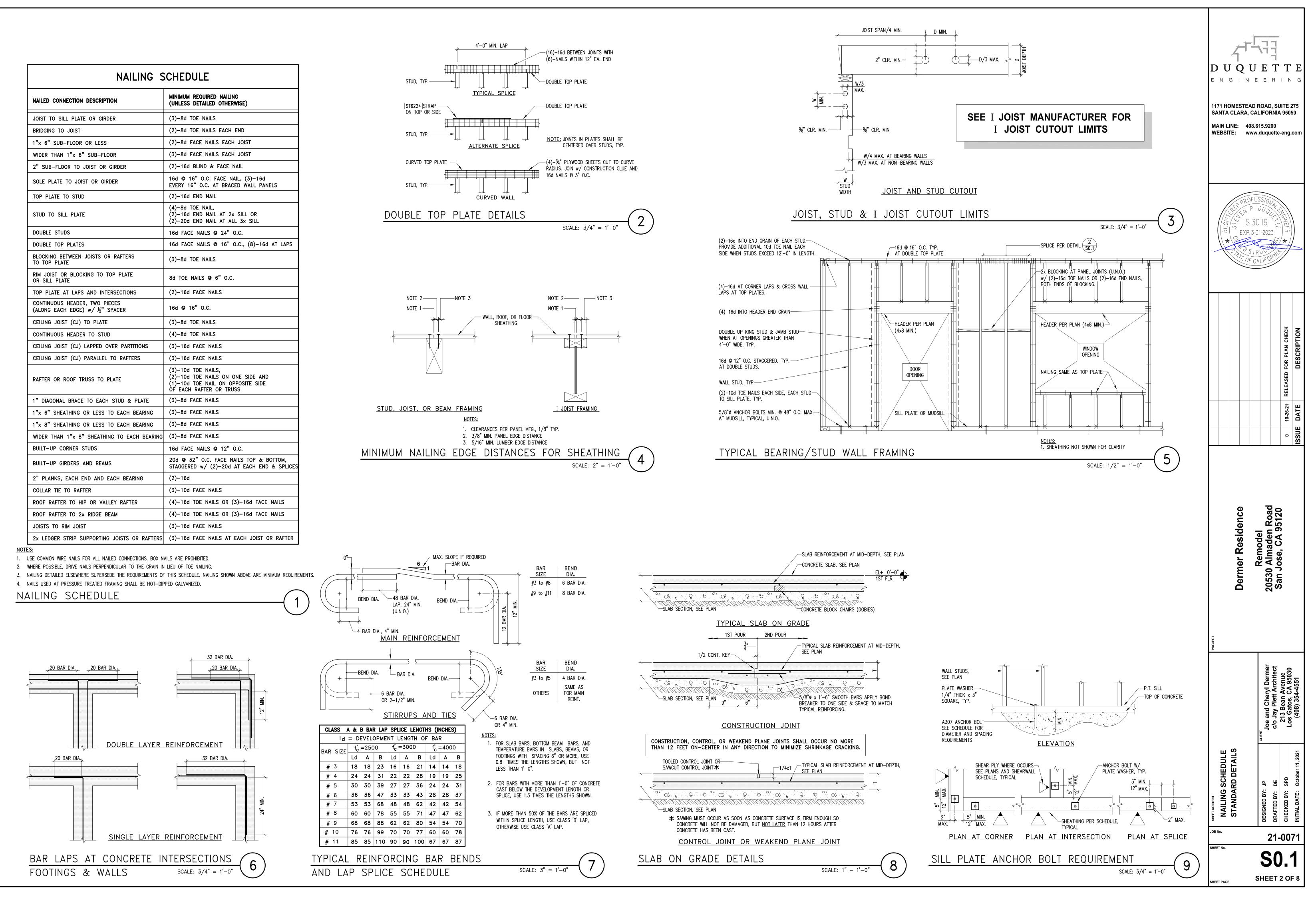
-Affected Region due to Current Revision.

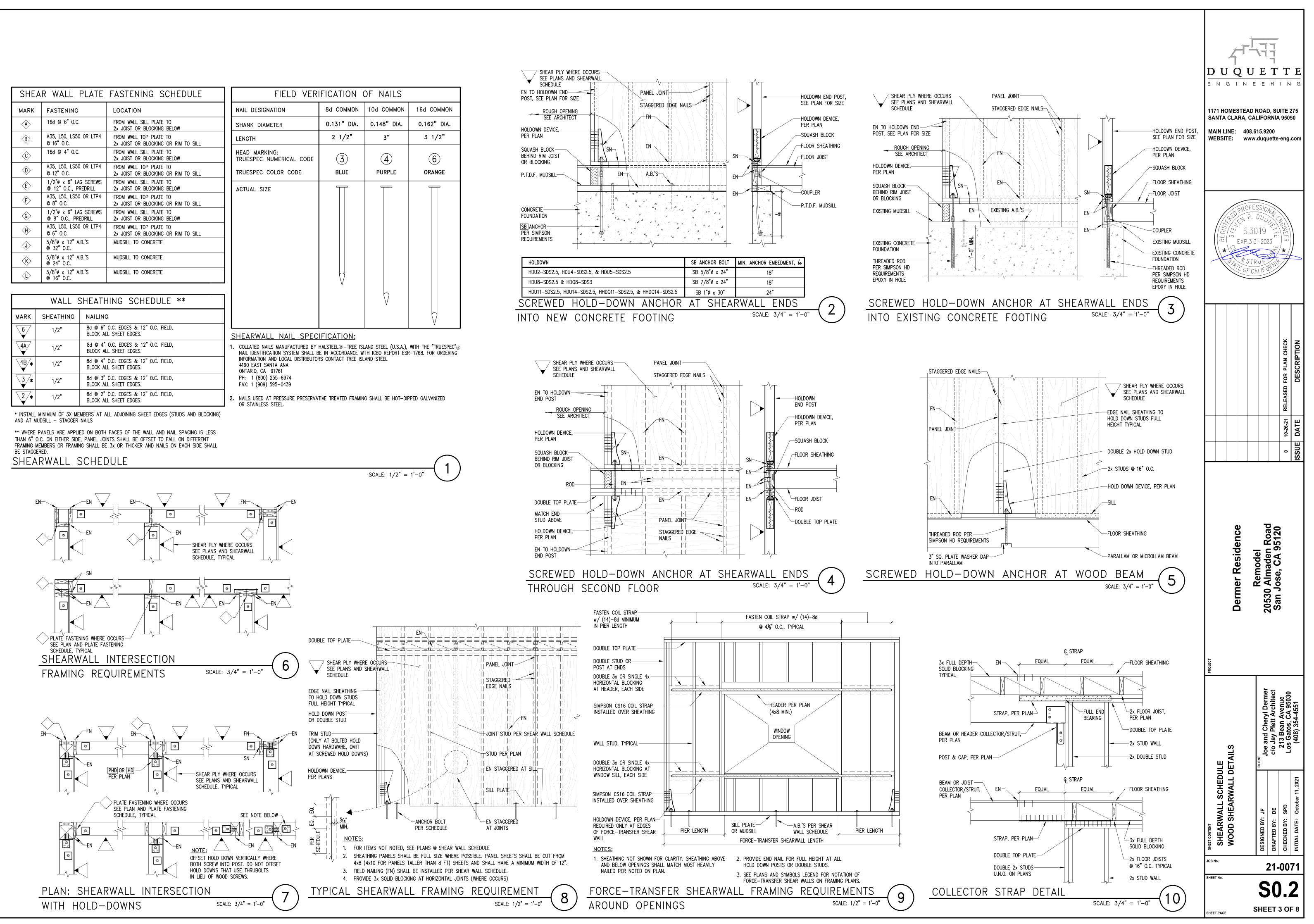
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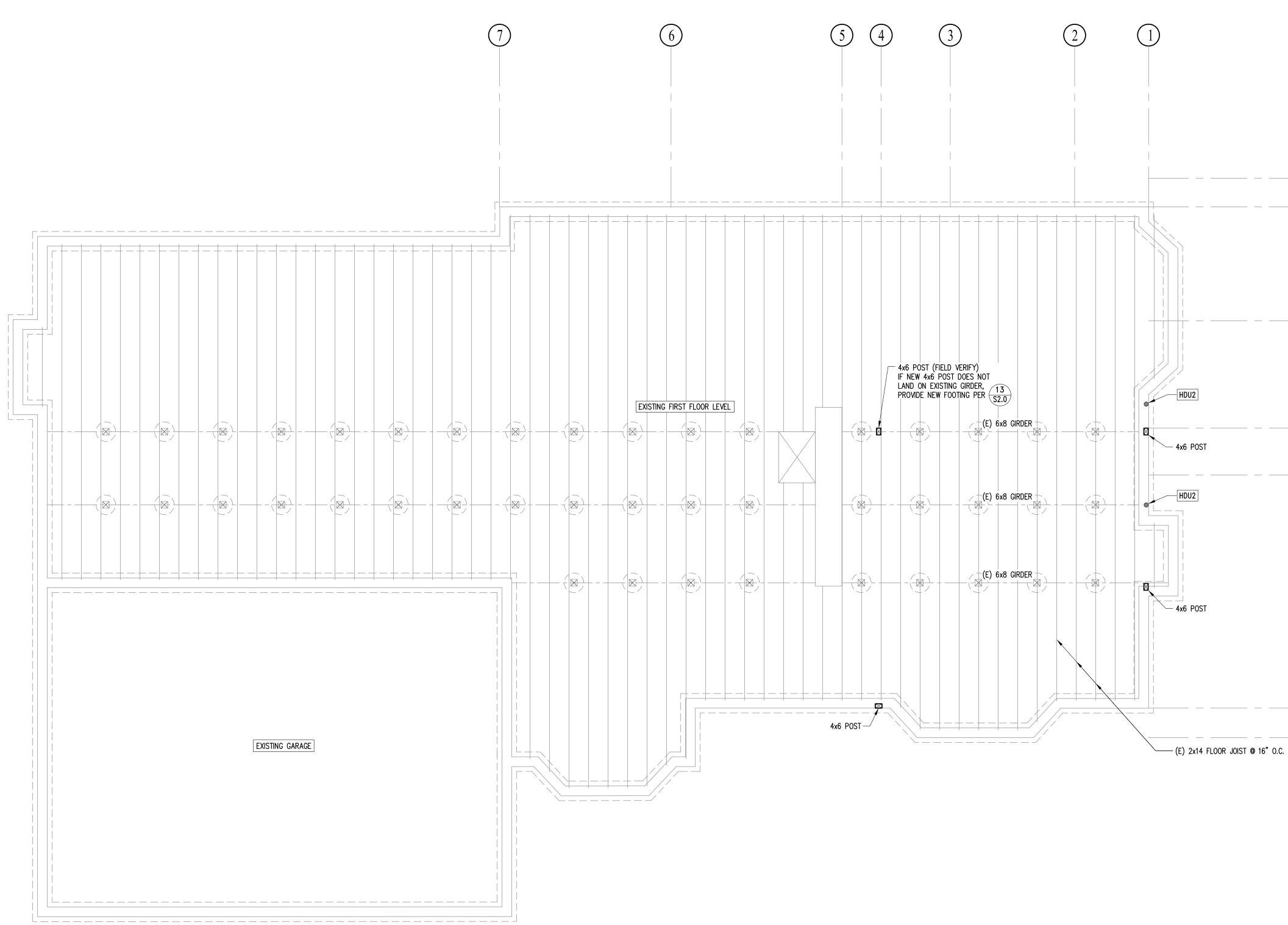
WALL SHEATHING SCHEDULE **				
MARK	SHEATHING	NAILING		
6	1/2"	8d @ 6" O.C. EDGES & 12" O.C. FIELD, BLOCK ALL SHEET EDGES.		
4A	1/2"	8d @ 4" O.C. EDGES & 12" O.C. FIELD, BLOCK ALL SHEET EDGES.		
48/ *	1/2"	8d @ 4" O.C. EDGES & 12" O.C. FIELD, BLOCK ALL SHEET EDGES.		
3*	1/2"	8d @ 3" O.C. EDGES & 12" O.C. FIELD, BLOCK ALL SHEET EDGES.		
2/*	1/2"	8d @ 2" O.C. EDGES & 12" O.C. FIELD, BLOCK ALL SHEET EDGES.		

PH:	1 (800)	255–6974		
FAX:	1 (909)	595-0439		





SHEA	R WALL PLATE	FASTENING SCHEDULE
MARK	FASTENING	LOCATION
Â	16d @ 6" O.C.	FROM WALL SILL PLATE TO 2x JOIST OR BLOCKING BELOW
B	A35, L50, LS50 OR LTP4 @ 16" O.C.	FROM WALL TOP PLATE TO 2x JOIST OR BLOCKING OR RIM TO SILL
Ċ>	16d @ 4" O.C.	FROM WALL SILL PLATE TO 2x JOIST OR BLOCKING BELOW
Ô	A35, L50, LS50 OR LTP4 @ 12" O.C.	FROM WALL TOP PLATE TO 2x JOIST OR BLOCKING OR RIM TO SILL
E	1/2"ø x 6" LAG SCREWS @ 12" O.C., PREDRILL	FROM WALL SILL PLATE TO 2x JOIST OR BLOCKING BELOW
F	A35, L50, LS50 OR LTP4 @ 8" O.C.	FROM WALL TOP PLATE TO 2x JOIST OR BLOCKING OR RIM TO SILL
(C)	1/2"ø x 6" LAG SCREWS @ 8" O.C., PREDRILL	FROM WALL SILL PLATE TO 2x JOIST OR BLOCKING BELOW
(H)	A35, L50, LS50 OR LTP4 @ 6" O.C.	FROM WALL TOP PLATE TO 2x JOIST OR BLOCKING OR RIM TO SILL
$\langle \mathbf{j} \rangle$	5/8"ø x 12" A.B.'S @ 32" O.C.	MUDSILL TO CONCRETE
< K >	5/8"ø x 12" A.B.'S @ 24" O.C.	MUDSILL TO CONCRETE
$\langle l \rangle$	5/8"ø x 12" A.B.'S @ 16" O.C.	MUDSILL TO CONCRETE



FOUNDATION PLAN

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

SEE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS, ELEVATIONS AND WALL LAYOUT. DO NOT SCALE THE STRUCTURAL DRAWINGS.

FOUNDATION NOTES :

1. INDICATES EXISTING FOUNDATION

AREA OF NOT LESS THAN 1/150 OF THE UNDER-FLOOR AREA PER CBC SECTION 1203.3 OPENINGS SHALL BE PROTECTED BY MESH WITH 1/4" MAXIMUM OPENING.

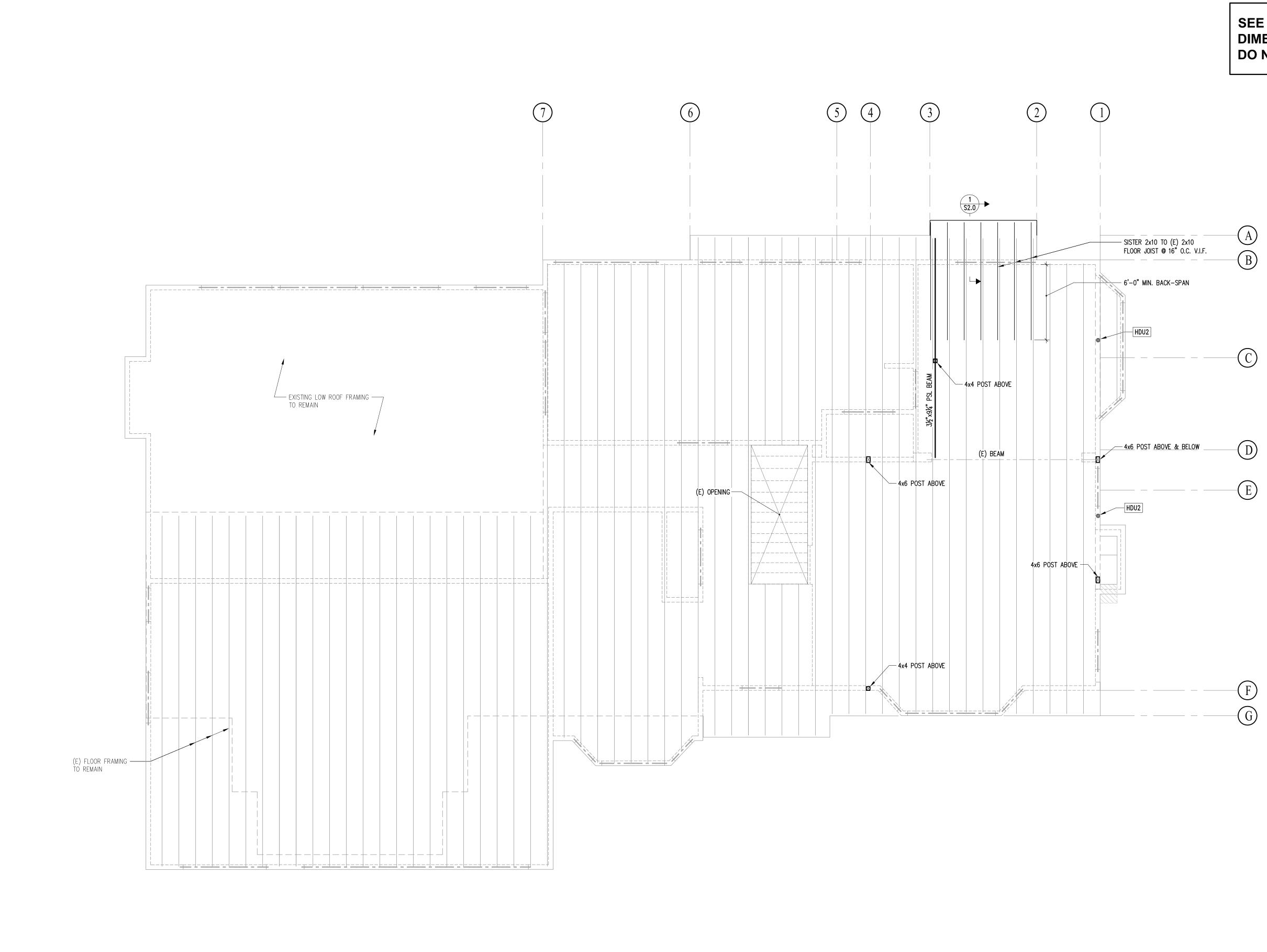
3. HDU5 INDICATES HOLDOWNS AT FOUNDATION. LOCATE ALL HOLDOWNS AT A DOUBLE CORNER STUD OR THE OPENING KING AND CRIPPLE STUD. SEE DETAIL 2 AND 3 FOR TYPICAL HOLDOWN AT FOUNDATION

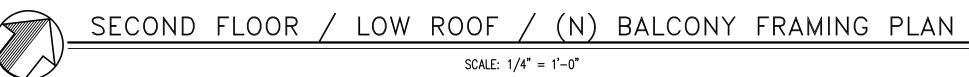
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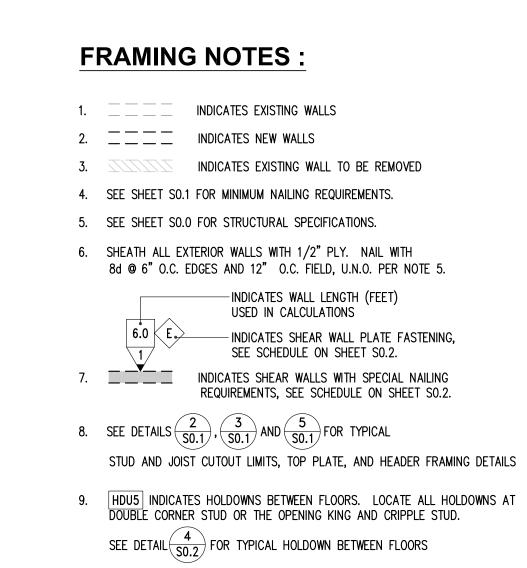
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				0 10-26-21	SSUE DATE
PROJECT	Dermer Residence		San Jose CA 95120		
		clent . Ioe and Chervl Dermer	c/o Jay Plett Architect	213 Bean Avenue Los Gatos. CA 95030	(408) 354-4551
SHEET CONTENT FOUNDATION PLAN		DESIGNED BY: JP	DRAFTED BY: DE	CHECKED BY: SPD	INITIAL DATE: October 11, 2021
JOB No. SHEET No.			21-		
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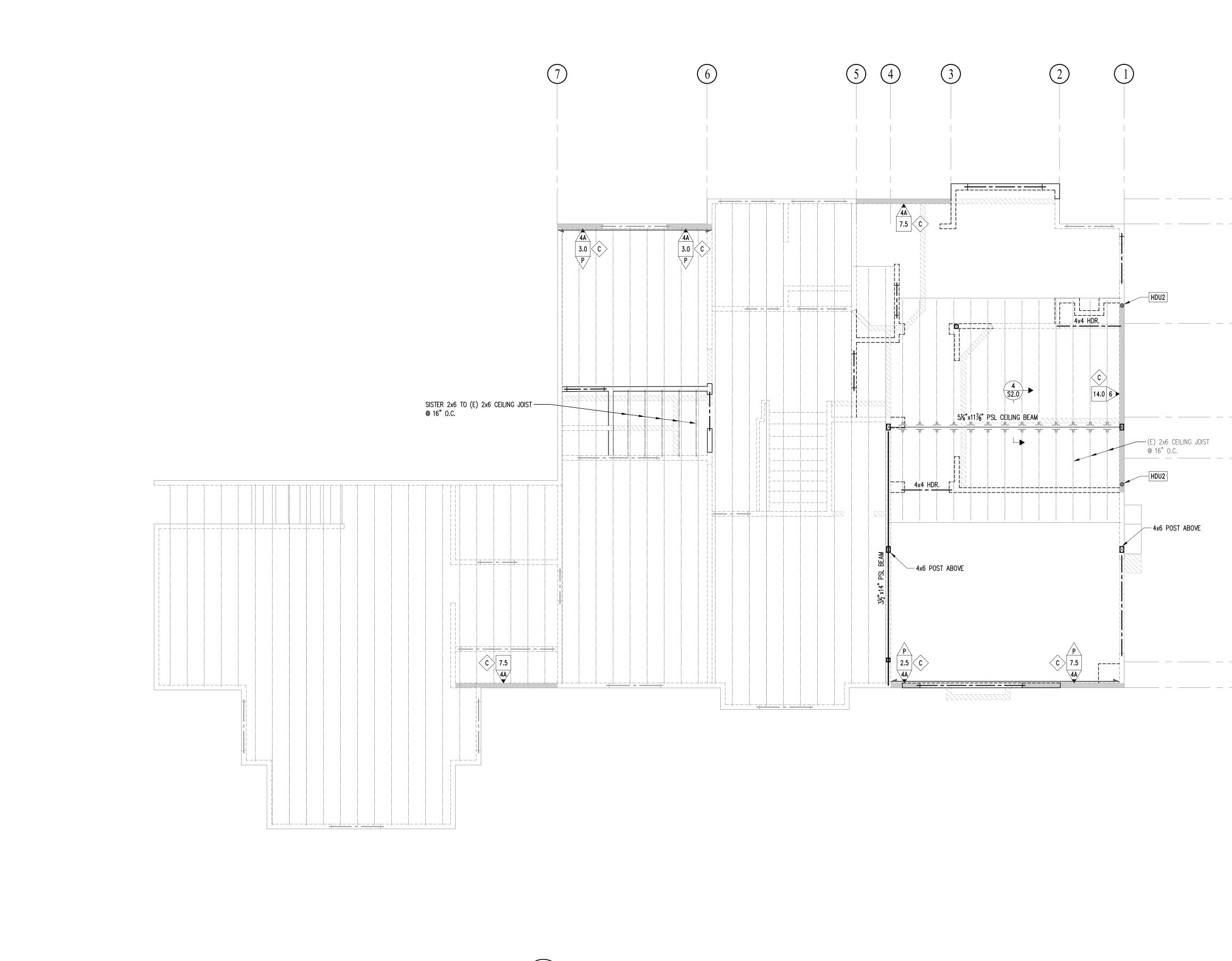


SEE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS, ELEVATIONS AND WALL LAYOUT. DO NOT SCALE THE STRUCTURAL DRAWINGS.



10. LSTA21 INDICATES SIMPSON COLLECTOR STRAP SEE 9 TYP. U.N.O.

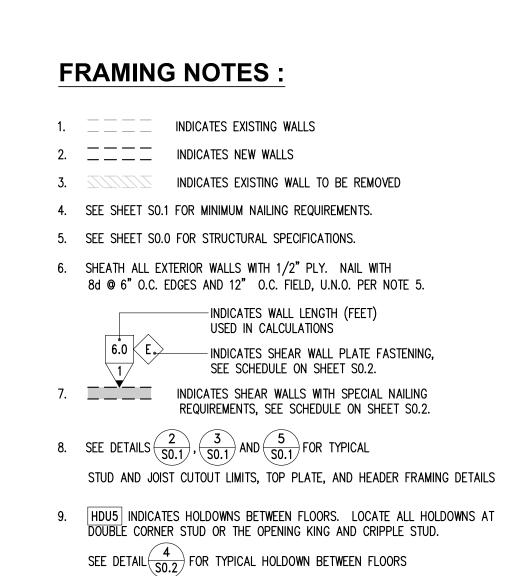
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PROJECT	Dermer Residence		Cemodel	San Jose CA 95120		
V ROOF /	G PLAN		CLIENT Joe and Chervl Dermer	c/o Jay Plett Architect	213 Bean Avenue Los Gatos. CA 95030	(408) 354-4551
OR / LOM	(N) BALCONY FRAMING PLAN		DESIGNED BY: JP	DRAFTED BY: DE	CHECKED BY: SPD	INITIAL DATE: October 11, 2021
SHEET CONTENT SECOND FLOOR / LOW ROOF /	(N) BALC		DESIGNI	DRAF1	CHEC	INITIAL
SECOND FLOO • N TEEHS • N TEEHS	(N) BALC			21-		



CEILING FRAMING PLAN

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

SEE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS, ELEVATIONS AND WALL LAYOUT. DO NOT SCALE THE STRUCTURAL DRAWINGS.



-(A)

(B)

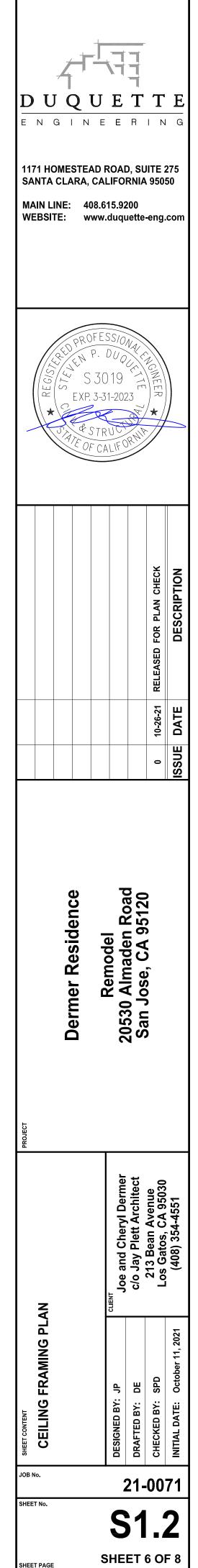
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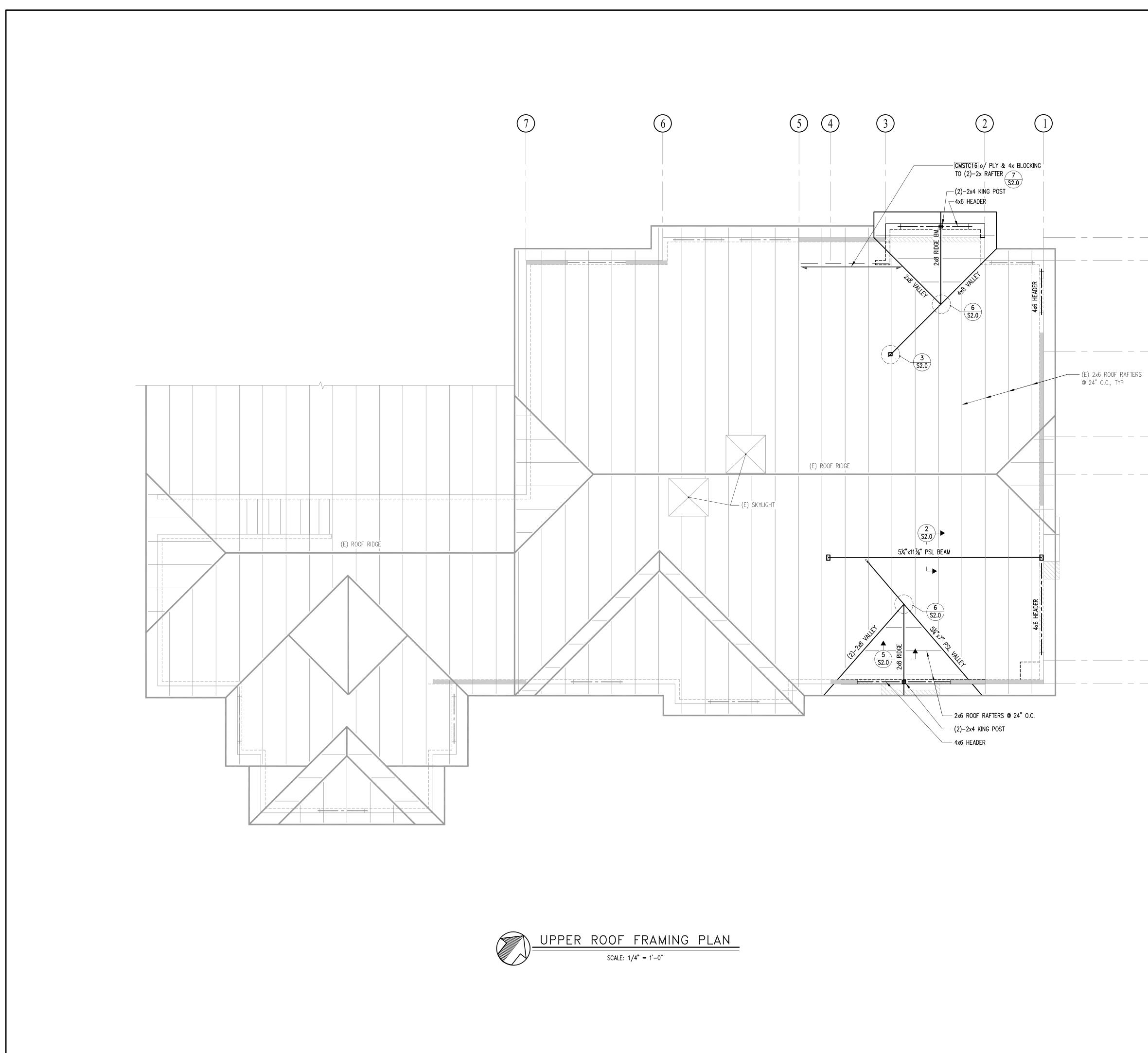
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10. LSTA21 INDICATES SIMPSON COLLECTOR STRAP SEE 9 TYP. U.N.O.





SEE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS, ELEVATIONS AND WALL LAYOUT. DO NOT SCALE THE STRUCTURAL DRAWINGS.

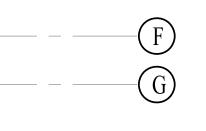




- 2. 3. INDICATES EXISTING WALL TO BE REMOVED
- 4. SEE SHEET SO.1 FOR MINIMUM NAILING REQUIREMENTS.
- 5. SEE SHEET SO.0 FOR STRUCTURAL SPECIFICATIONS.
- SHEATH ALL EXTERIOR WALLS WITH 1/2" PLY. NAIL WITH
 8d @ 6" O.C. EDGES AND 12" O.C. FIELD, U.N.O. PER NOTE 5.

— INDICATES WALL LENGTH (FEET) USED IN CALCULATIONS 6.0 E INDICATES SHEAR WALL PLATE FASTENING, SEE SCHEDULE ON SHEET S0.2. 1

- 7. THE INDICATES SHEAR WALLS WITH SPECIAL NAILING REQUIREMENTS, SEE SCHEDULE ON SHEET SO.2.
- 8. SEE DETAILS $\begin{pmatrix} 2 \\ S0.1 \end{pmatrix}$, $\begin{pmatrix} 3 \\ S0.1 \end{pmatrix}$ AND $\begin{pmatrix} 5 \\ S0.1 \end{pmatrix}$ FOR TYPICAL STUD AND JOIST CUTOUT LIMITS, TOP PLATE, AND HEADER FRAMING DETAILS
- 9. HDU5 INDICATES HOLDOWNS BETWEEN FLOORS. LOCATE ALL HOLDOWNS AT DOUBLE CORNER STUD OR THE OPENING KING AND CRIPPLE STUD. SEE DETAIL 4 FOR TYPICAL HOLDOWN BETWEEN FLOORS
- 10. LSTA21 INDICATES SIMPSON COLLECTOR STRAP SEE 9 TYP. U.N.O.

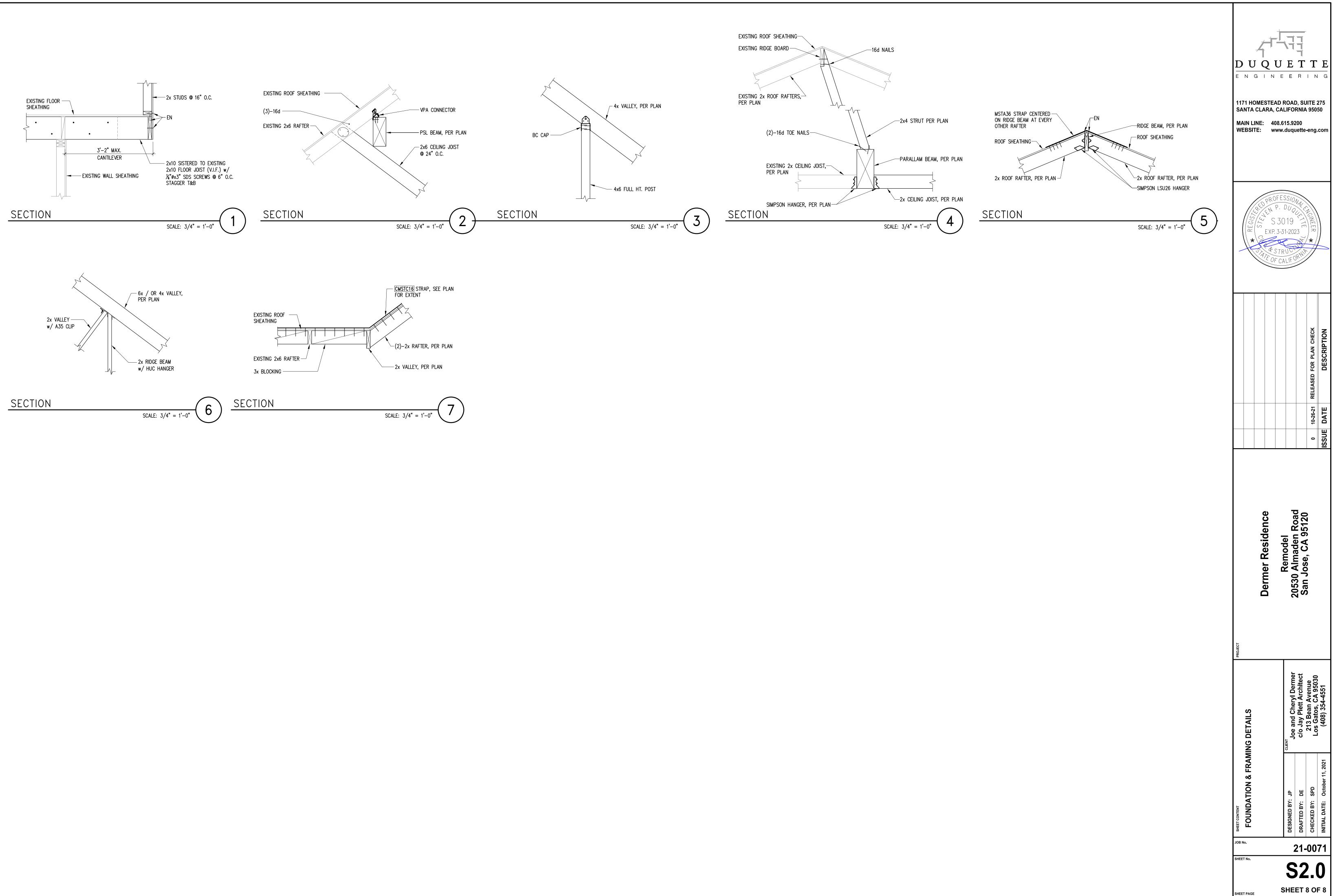


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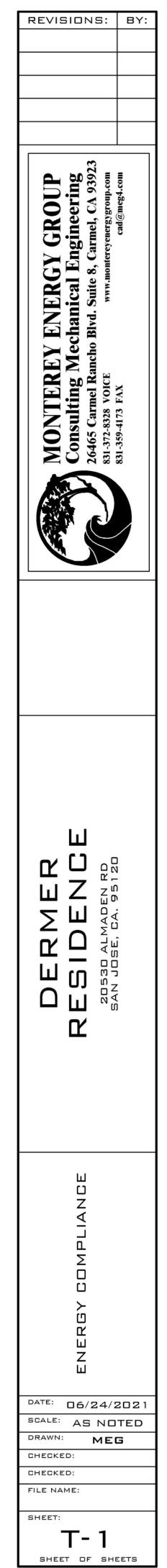
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	Dermer Residence	20530 Almaden Road	
		CLIENT Joe and Cheryl Dermer c/o Jay Plett Architect	213 Bean Avenue Los Gatos, CA 95030 2021 (408) 354-4551
SHEET CONTENT OUPPER ROOF FRAM		DESIGNED BY: JP DRAFTED BY: DE	
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CA Building Energy Efficiency Standards - 2019 Residential Compliance Report Version: 2019.1.300 Report Generated: 2021-06-24 09:10:20 Schema Version: rev 20200901	01 Zone Name Existing House		FAU + A/C1	10	0	9	DHW Sys 1	N/A

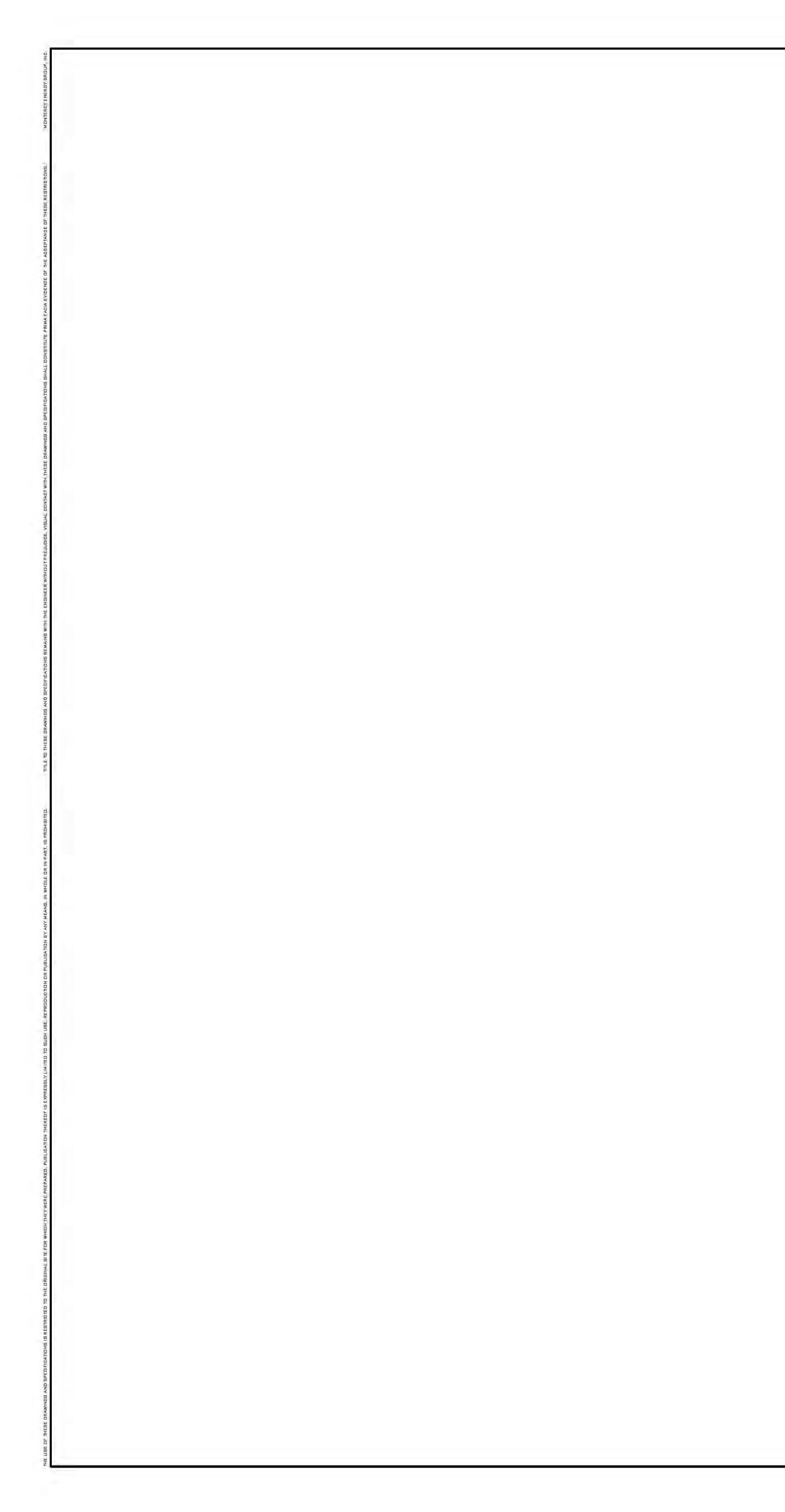
ect Name: D	COMPLIANCE Dermer Residen								2021-06-24T(7 Dermer E+A		:00		IR-PRF-01E age 3 of 11)	CERTIFICATE OF CO Project Name: Derr Calculation Descrip	mer Residence	nalvsie			Calculation Date/Ti Input File Name: 21				CF1R-PRF-01 (Page 5 of 11
	-	4 Analysis				in p	ut rile iva	ame. 21-377	/ Definer L+A	TA.IIDU13X				FENESTRATION / GLA		101355			input rile Name. 21		AIIDUIJA		
QUE SURFACE						00								01	02	03	04 05	06 07	08 09 10	11 12	13	14 15	16
01 Name	02 Zone	03 Constructio		nuth (05 Orientation	06 Gross Area (ft	2) Wind	07 dow and Area (ft2)	08 Tilt (deg)	09 Wall Excep		tus Verifie	11 fied Existing ondition	Name	Туре	Surface C	Drientation Azimuth	Width Height (ft) (ft)	Mult. Area (ft ²) U-facto	or U-factor Source SHG	iC SHGC Source	Exterior Shading Status	Verified Existing Condition
FWall/E	Existing House	R-13 Wall	13	39	Front	1034.9	2	206.7	90	none	e Exist	ting	No	RG/N	Window	RWall/E	Right 49		1 52.5 0.39	NFRC 0.2	8 NFRC	Bug Screen New	n/a
_Wall/E	Existing House	R-13 Wall	22	29	Left	657.8	1	16.9	90	none	e Exist	ting	No	BG	Window	BWall	Back 319		1 33 0.39	NFRC 0.2	8 NFRC	Bug Screen New	n/a
	Existing House	R-13 Wall		19	Back	1273.6	_	280.6	90	none	e Exist	~	No	Skylight/E	Skylight	Attic/E	0		1 31.4 1.3	Table 0.7 110.6-A	3 Table 110.6-E	None Existing	g No
	Existing House	R-13 Wall		19	Right	789	_	155.2	90	none			No							110.0-A	110.0-0		
LWall BWall	Addition Only Addition Only	R-15 Wall R-15 Wall		29 19	Left Back	9.4 34	_	33	90	none			n/a n/a	OPAQUE DOORS									
3Wall2	Addition Only	R-15 Wall		19	Back	34	_	0	90	none			n/a	01		02		03	04		05		06
RWall	Addition Only	R-15 Wall	4	9	Right	9.4		0	90	none	e Ne	ew 🛛	n/a	Name		Side of Build		Area (ft ²)	U-factor		Status		ting Condition
tion Wall/E	Existing House>>Gara ge	R-13 Wall1	. n,	/a	n/a	404.3		20	n/a		Exist	ting	No	Door/E		Partition Wa	III/E	20	0.5		Existing		10
ttic/E 2	Existing House	R-19 Attic	n	/a	n/a	2251.6		n/a	n/a		Exist	ting	No	01	02	03	04	05	06	07	08	09	10
Attic/A	Existing House	R-38 Attic	n,	/a	n/a	735		n/a	n/a		Alte	ered	No					Edge Insul.	Edge Insul.				
Attic	Addition Only	R-38 Attic			n/a	10	_	n/a	n/a		Ne		n/a	Name	Zone	Area (ft ²)) Perimeter (ft)	R-value and Depth		arpeted Fraction	Heated	Status	erified Existing Condition
Attic2/E ed Floor X/E	Garage Existing House	R-0 Garage A R-13 Floor N Crawlspace	lo n	/a /a	n/a n/a	224 113		n/a n/a	n/a n/a		Exist		No	Slab-on- Grade2/E	Garage	751	65.5	none	0	0%	No	Existing	No
sed Floor X	Addition Only	R-30 Floor N Crawlspace	lo n	/a	n/a	10		n/a	n/a		Ne	ew	n/a	OPAQUE SURFACE CO	ONSTRUCTIONS		I					<u> </u>	
sed Floor/E	Existing House	R-13 Floor	l n	/a	n/a	2378	,	n/a	n/a		Exist	ting	No	01		2	03	04	05	06	07	08	
	Existing House	Crawlspace R-13 Floor N Crawlspace	lo n	/a	n/a	527		n/a	n/a		Exist	ting	No	Construction Nam	e Surfac	е Туре	Construction Type	Framing	Total Cavity R-value	Interior / Exterior Continuous R-value	U-factor	Assembly Lay	vers
Wall2/E	Garage	R-0 Garage V		39	Front	291.8		0	90	none	e Exist	ting	No							n-value	\vdash	Inside Finish: Gypsu	um Board
Wall2/E Wall2/E	Garage Garage	R-0 Garage V R-0 Garage V		29	Left Right	205.5 92.3		0	90 90	none	e Exist	ting	No	R-0 Garage Wall	Exterio	r Walls	Wood Framed Wall	2x4 @ 16 in. O. C.	. R-0	None / None	0.361	Cavity / Frame: no in Exterior Finish: 3 Co	nsul. / 2x4
	sy Linclency Stan	dards - 2019 Resid	dential Compl	liance		Report Versi Schema Vers				Repo	ort Generated: 20	021-06-24 09:1	:10:20	Registration Number	fficiency Standard	ls - 2019 Resid	ential Compliance		/ersion: 2019.1.300 Version: rev 20200901		Repo	t Generated: 2021-06-24	09:10:20
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Construction Name Surface Type Construction Type Framing Total Cavity R-value Interior / Exterior Continuous R-value U-factor Assembly Layers R-13 Floor Crawispace Floors Over Crawispace Wood Framed Floor 2x6 @ 16 in. O. C. R-13 None / None D.052 Floor Surface: Carpeted Floor Deck: Wood Siding/Sheatting/Acking Cavity / Frame: R-13 / 2x6 R-0 Garage Attic Cellings (below attic) Wood Framed Celling 2x4 @ 24 in. O. C. R-0 None / None D.481 Cavity / Frame: no insul. / 2x4 Inside Finish: Gypsum Board R-19 Attic Cellings (below attic) Wood Framed Celling 2x4 @ 24 in. O. C. R-19 None / None 0.049 Over Celling Joits: R-9.9 insul. Cavity / Frame: R-9.1 / 2x4 Inside Finish: Gypsum Board R-38 Attic Cellings (below attic) Wood Framed Celling 2x4 @ 24 in. O. C. R-38 None / None 0.049 Over Celling Joits: R-9.3 insul. Cavity / Frame: R-9.1 / 2x4 Inside Finish: Gypsum Board R-33 Attic Cellings (below attic) Wood Framed Floor 2x6 @ 16 in. O. C. R-38 None / None 0.025 Cerling Joits: R-9.3 insul. Cavity / Frame: R-13 / 2x6 R-33 Floor No Craw/space1 Exterior Floors <t< th=""><th>alculation Description</th><th>RUCTIONS</th><th>1</th><th></th><th></th><th>-377 Dermer E+A+/</th><th></th><th></th></t<>	alculation Description	RUCTIONS	1			-377 Dermer E+A+/		
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Autic Centing	8-0 Garage Attic	Ceilings (below		2x4 @ 24 in. O. C.	B-0	None / None	0.481	Cavity / Frame: no insul. / 2x4
R-38 Attic Ceilings (below attic) Wood Framed Ceiling 2x4 @ 24 in. O. C. R-38 None / None 0.025 Over Ceiling Joists: R-28.9 insul. Cavity / Frame: R-9.1 / 2x4 Inside Finish: Gypsum Board R-13 Floor No Crawlspace1 Exterior Floors Wood Framed Floor 2x6 @ 16 in. O. C. R-13 None / None 0.064 Floor Surface: Carpeted Floor Deck: Wood Siding/Sheathing/decking Cavity / Frame: R-13 / 2x6 R-30 Floor No Crawlspace Exterior Floors Wood Framed Floor 2x10 @ 16 in. O. C. R-30 None / None 0.064 Floor Surface: Carpeted Floor Deck: Wood Siding/Sheathing/decking Cavity / Frame: R-13 / 2x6 R-31 Floor No Crawlspace Exterior Floors Wood Framed Floor 2x10 @ 16 in. O. C. R-30 None / None 0.034 Floor Surface: Carpeted Floor Deck: Wood	11 11 11 11 11 11 11 11 11 11 11 11 11	Ceilings (below	Wood Framed	121322-1000 TRC-510410		1		Over Ceiling Joists: R-9.9 insul. Cavity / Frame: R-9.1 / 2x4
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R-13 Floor No Crawlspace Interior Floors Wood Framed Floor 2x6 @ 16 in. O. C. R-13 None / None 0.06 Floor Surface: Carpeted Floor Deck: Wood Siding/sheathing/decking Cavity / Frame: R-13 / 2x6 Ceiling Below Finish: Gypsum Board registration Number: Registration Date/Time: HERS Provider: A Building Energy Efficiency Standards - 2019 Residential Compliance Report Version: 2019.1.300 Report Generated: 2021-06-24 09:10:20		Exterior Floors	Wood Framed Floor	2x10 @ 16 in. O. C.	R-30	None / None	0.034	Floor Surface: Carpeted Floor Deck: Wood Siding/sheathing/decking
egistration Number: Registration Date/Time: HERS Provider: A Building Energy Efficiency Standards - 2019 Residential Compliance Report Version: 2019.1.300 Report Generated: 2021-06-24 09:10:20		Interior Floors	Wood Framed Floor	2x6 @ 16 in. O. C.	R-13	None / None	0.06	Floor Surface: Carpeted Floor Deck: Wood Siding/sheathing/decking Cavity / Frame: R-13 / 2x6

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LDING ENVELOPE - H	HERS VERIFIC	ATION	1		02		-	-	03		1		04	
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TER HEATING SYSTEM	15-20	1	2.0	ì.	10		1 53			È 697	T			1
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NOTE: Low-rise n used. Review the (Original 08/2019)	esidential buildings subject to the Energy Standards must comply with all applicable mandatory measures, regardless of the compliance approach respective section for more information. "Exceptions may apply.
Building Envelop	
§ 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
§ 110.6(a)5:	when tested per NFRC-400, ASTM E283 or AAMA/WDMA/CSA 101/I.S.2/A440-2011.* Labeling. Fenestration products and exterior doors must have a label meeting the requirements of Section 10-111(a).
	Field fabricated exterior doors and fenestration products must use U-factors and solar heat gain coefficient (SHGC) values from Tables
§ 110.6(b): § 110.7:	110.6-A, 110.6-B, or JA4.5 for exterior doors. They must be caulked and/or weather stripped." 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 stripped.
§ 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(g):	Insulation Requirements for Heated Slab Floors. Heated slab floors must be insulated per the requirements of Section 110.8(g).
§ 110.B(i):	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 CF1R.
§ 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):	Ceiling and Rafter Roof Insulation. Minimum R-22 insulation in wood-frame ceiling; or the weighted average U-factor must not exceed 0.043. Minimum R-19 or weighted average U-factor of 0.054 or less in a rafter roof alteration. 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 continuous 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, (R-19 in 2x6 or U-factor of 0.074 or less). Opaque non-framed assemblies must have an overall assembly U-factor not exceeding 0.102, equivalent to an installed value of R-13 in a wood framed assembly. Masonry walls must meet Table 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 withour facings no greater than 0.3%; 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 of unvented crawl space must be covered with a Class I or Class II vapor retarder. This requirement also applies to controlled ventilation crawl space for buildings complying with the exception to § 150.0(d). 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
§ 150.0(g)2:	insulation in all exterior walls, vented attics, and unvented attics with air-permeable insulation. Fenestration Products. Fenestration, including skylights, separating conditioned space from unconditioned space or outdoors must have a
§ 150.0(q):	maximum U-factor of 0.58; or the weighted average U-factor of all fenestration must not exceed 0.58.*
a second de la de la de la de la de	rative Gas Appliances, and Gas Log Measures:
§ 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 tight-fitting 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 Condition	ing, Water Heating, and Plumbing System Measures:
§ 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 Energy Commission.*
§ 110.2(a):	HVAC Efficiency. Equipment must meet the applicable efficiency requirements in Table 110.2-A through Table 110.2-K."
§ 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)4:	Water Heating Recirculation Loops Serving Multiple Dwelling Units. Water heating recirculation loops serving multiple dwelling units must meet the air release valve, backflow prevention, pump priming, pump isolation valve, and recirculation loop connection requirements of § 110.3(c)4.
§ 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.
§ 110.5:	Pilot Lights. Continuously burning pilot lights are prohibited for natural gas: fan-type central furnaces; household cooking appliances (appli- ances without an electrical supply voltage connection with pilot lights that consume less than 150 Btu/hr are exempt); 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 SMACNA 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 5 feet from the outlet of any dryer vent.
§ 150.0(h)3B:	Liquid Line Drier. 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(j)1:	Storage Tank Insulation. Unfired hot water tanks, such as storage tanks and backup storage tanks for solar water-heating systems, must have a minimum of R-12 external insulation or R-16 internal insulation where the internal insulation R-value is indicated on the exterior of the tank.
§ 150.0(j)2A:	Water Piping, Solar Water-heating System Piping, and Space Conditioning System Line Insulation. All domestic hot water piping must be insulated as specified in Section 609,11 of the California Plumbing Code. In addition, the following piping conditions must have a minimum insulation wall thickness of 1 inch or a minimum insulation R-value of 7.7: the first 5 feet of cold water piping with a nominal diameter equal to or greater than 3/4 inch and less than 1 inch; all hot water piping with a nominal diameter less than 3/4 inch that is; associated with a domestic hot water recirculation system, from the heating source to storage tank or between tanks, buried below grade, and from the heating source to kitchen fixtures.*
§ 150.0(j)3;	Insulation Protection. Piping insulation must be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind as required by Section 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-crushable 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 include all of the following: A dedicated 125 volt, 20 amp electrical receptacle that is connected to the electric panel with a 120/240 volt 3 conductor, 10 AWG copper branch circuit, within 3 feet from the water heater without obstruction. Both ends of the unused conductor must be labeled with the word "spare" and be electrically isolated. Have a reserved single pole circuit breaker space in the electrical panel adjacent to the circuit breaker for the branch circuit and labeled with the words "Future 240V Use"; a Category III or IV vent, or a Type B vent with straight pipe between the outside termination and the space where the water heater is installed; a condensate drain that is no more than 2 inches higher than the base of the water heater, and allows natural draining without pump assistance; and a gas supply line with a capacity of at least 200,000 Btu per hour.
§ 150.0(n/2: § 150.0(n)3:	Recirculating Loops. Recirculating loops serving multiple dwelling units must meet the requirements of § 110.3(c)5. 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	Measures:
§ 110.8(d)3:	Ducts. Insulation installed on an existing space-conditioning duct must comply with California Mechanical Code (CMC) Section 604.0. 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 the requirements of the CMC Section 601.0, 602.0, 603.0, 604.0, 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 a minimum installed level of R-6.0 or a minimum installed level of R-4.2 when ducts are entirely in conditioned space as confirmed through field verification and diagnostic testing (RA3.1.4.3.8). Portions of the duct system completely exposed and surrounded by directly conditioned space are not required to be insulated. Connections of metal ducts and inner core of flexible ducts must be mechanically fastened. Openings must be sealed with mastic, tape, or other duct-closure system that meets the applicable requirements of UL 181, UL 181A, or UL 181B or aerosol sealant that meets the requirements of UL 723. If mastic or tape is used to seal openings greater than % inch, the combination of mastic and either mesh or tape must be used. Building cavities, support platforms for air handlers, 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 must not be compressed to cause reductions in the cross-sectional area."
§ 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, sunlight, moisture, equipment maintanance, and wind. Insulation exposer to weather must be suitable for outdoor service. For example, protected by aluminum, sheet metal, painted carvas, or plastic cover. Cellular foam insulation must be protected as above or painted with a coating that is water retardant and provides shielding from solar radiation.
§ 150.0(m)10:	Porous Inner Core Flex Duct. Porous inner core flex ducts must have a non-porous layer 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 § 150.0(m)11 and Reference Residential Appendix RA3.
§ 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 2 inch depth or can be 1 inch if sized per Equation 150.0-A. Pressure drop and labeling must meet the requirements in §150.0(m)12. Filters must be accessible for regular service.*
§ 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 ≤ 0.45 watts per CFM for gas fumace 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 ≤ 0.62 watts per CFM. Field verification testing is required in accordance with Reference Residential Appendix RA3.3.*

	2019 Low-Rise Residential Mandatory Measures Summary	
Requirements for	or 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)1.	
§ 150.0(o)1C:	Single Family Detached Dwelling Units. 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 provided at rates determined by ASHRAE 52.2 Sections 4.1.1 and 4.1.2 and as specified in § 150.0(a)1C.	
§ 150.0(o)1E:	Multifamily Attached Dwelling Units. Multifamily attached dwelling units must have mechanical ventilation airflow provided at rates in accordance with Equation 150.0-B and must be either a balanced system or continuous supply or continuous exhaust system. If a balanced system is not used, all units in the building must use the same system type and the dwelling-unit envelope leakage must be ≤ 0.3 CFM at 50 Pa (0.2 inch water) per square foot of dwelling unit envelope surface area and verified in accordance with Reference Residential Appendix RA3.8.	
§ 150.0(o)1F:	Multifamily Building Central Ventilation Systems. Central ventilation systems that serve multiple dwelling units must be balanced to provide ventilation airflow for each dwelling unit served at a rate equal to or greater than the rate specified by Equation 150.0-B. All unit airflows must be within 20% of the unit with the lowest airflow rate as it relates to the individual unit's minimum required airflow rate needed for compliance.	UP 1ing 19392
§ 150.0(o)1G: § 150.0(o)2:	Kitchen Range Hoods. Kitchen range hoods must be rated for sound in accordance with Section 7.2 of ASHRAE 62.2. Field Verification and Diagnostic Testing. Dwelling unit ventilation airflow must be verified in accordance with Reference Residential Appendix RA3.7. Kitchen range hoods must be verified in accordance with Reference Residential Appendix RA3.7.4.3 to confirm it is rated by HVI to comply with the airflow rates and sound requirements as specified in Section 5 and 7.2 of ASHRAE 62.2.	RGY GROUP cal Engineering oute 8, Carmel, CA 9399 www.montereyenergygroup.com cad@meg4.com
Pool and Spa S	stems and Equipment Measures:	
§ 110.4(a):	Certification by Manufacturers. Any pool or spa heating system or equipment must be certified to have all of the following: a thermal efficiency that complies with the Appliance Efficiency Regulations; 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.*	A EV w.monte
§ 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.	A Suite
§ 110.4(b)2:	Covers. Outdoor pools or spas that have a heat pump or gas heater must have a cover. Directional Inlets and Time Switches for Pools. Pools must have directional inlets that adequately mix the pool water, and a time switch that	
§ 110.4(b)3:	will allow all pumps to be set or programmed to run only during off-peak electric demand periods.	ENBlyd
§ 110.5: § 150.0(p):	Pilot Light. Natural gas pool and spa heaters must not have a continuously burning pilot light. Pool Systems and Equipment Installation. Residential pool systems or equipment must meet the specified requirements for pump sizing, flow methods of the production of	EV EN Mechar ancho Blvd.
Lighting Measu	rate, piping, filters, and valves."	
§ 110.9:	Lighting Controls and Components. All lighting control devices and systems, ballasts, and luminaires must meet the applicable requirements of § 110.9."	NTER ulting armel Ra 228 VOICE 228 VOICE 228 VOICE
§ 150.0(k)1A:	Luminaire Efficacy. All installed luminaires must meet the requirements in Table 150.0-A.	
§ 150.0(k)1B:	Blank Electrical Boxes. The number of electrical boxes that are more than 5 feet above the finished floor and do not contain a luminaire or other device must be no greater than the number of bedrooms. These electrical boxes must be served by a dimmer, vacancy sensor control, or fan speed control.	MON Consu 26465 C3 831-372-832 831-359-417
§ 150.0(k)1C:	Recessed Downlight Luminaires in Ceilings. Luminaires recessed into ceilings must meet all of the requirements for: insulation contact (IC) labeling; air leakage: sealing; maintenance; and socket and light source as described in § 150.0(k)1C.	
§ 150.0(k)1D:	Electronic Ballasts for Fluorescent Lamps. Ballasts for fluorescent lamps rated 13 watts or greater must be electronic and must have an output frequency no less than 20 kHz.	
§ 150.0(k)1E:	Night Lights, Step Lights, and Path Lights. Night lights, step lights and path lights are not required to comply with Table 150.0-A or be controlled by vacancy sensors provided they are rated to consume no more than 5 watts of power and emit no more than 150 lumens.	
§ 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).*	
§ 150.0(k)1G:	Screw based luminaires. Screw based luminaires must contain lamps that comply with Reference Joint Appendix JA8. ²	
§ 150.0(k)1H:	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)11:	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 be controlled by vacancy sensors provided that they are rated to consume no more than 5 watts of power, emit no	
§ 150.0(k)2A:	more than 150 lumens, and are equipped with controls that automatically turn the lighting off when the drawer, cabinet or linen closet is closed. Interior Switches and Controls. All forward phase cut dimmers used with LED light sources must comply with NEMA SSL 7A.	
§ 150.0(k)2B:	Interior Switches and Controls. Exhaust fans must be controlled separately from lighting systems."	
§ 150.0(k)2C:	Interior Switches and Controls. Lighting must have readily accessible wall-mounted controls that allow the lighting to be manually turned ON and OFF.*	
§ 150.0(k)2D:	Interior Switches and Controls. Controls and equipment must be installed in accordance with manufacturer's instructions. Interior Switches and Controls. Controls must not bypass a dimmer, occupant sensor, or vacancy sensor function if the control is installed to	
§ 150.0(k)2E:	comply with § 150.0(k).	
§ 150.0(k)2F:	Interior Switches and Controls. Lighting controls must comply with the applicable requirements of § 110.9.	
§ 150.0(k)2F:	Interior Switches and Controls. Lighting controls must comply with the applicable requirements of § 110.9.	
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\$ 150.0(k)2G: \$ 150.0(k)2H: \$ 150.0(k)2H: \$ 150.0(k)2I: \$ 150.0(k)2J: \$ 150.0(k)2J: \$ 150.0(k)2J:	Interior Switches and Controls. Lighting controls must comply with the applicable requirements of § 110.9. 2019 Low-Rise Residential Mandatory Measures Summary Interior Switches and Controls. An energy management control system (EMCS) may be used to comply with control requirements if it: provides functionality of the specified control according to § 110.9, meets the Installation Certificate requirements of § 130.4; meets the EMCS requirements of § 130.4; meets the EMCS requirements of § 130.0; and meets all other requirements in § 150.0; if it provides functionality of a dimmer according to § 110.9, and complex with all other applicable requirements in § 150.0; if it provides the functionality of a dimmer according to § 110.9, and complex with all other applicable requirements in § 150.0; if it provides the functionality of a dimmer according to § 110.9, and complex with all other applicable requirements in § 150.0; if it provides the functionality of a dimmer according to § 110.9, and complex with all other applicable requirements in § 150.0; if it provides the functionality of a dimmer according to § 110.9, and complex with all other applicable requirements in § 150.0; if it provides the functionality of a dimmer according to § 110.9, and complex with all other applicable requirements in § 150.0; if it provides the functionality of a dimmer according to § 110.9, and complex with all other applicable requirements in § 150.0; if it is initially configured to manual-on operation using the manual control required under Section 150.0; if it must be initially configured to manual-on operation using the manual control required under Section 150.0; if it of the set ontrols. Under cabinet lighting must be controled separately from caling-installed lighting systems. Residential Outdoor Lighting. For single-family residential buildings, outdoor lighting permanently mounted to a residential building, or to other buildings on the same tot, must meet the requirement in terms § 150.0; (k)34 (ON and OFF Switch) and th	DEN DEN E
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