

ABBREVIATIONS

&	AND	F.B.	FLAT BAR	QT	QUARRY TILE
?	ANGLE	F.H.W.S.	FLAT HEAD WOOD SCREW	R.W.L.	RAIN WATER LEADER
⊙	AT	FL.	FLOOR	RWD.	REDWOOD
?	CENTERLINE	F.D.	FLOOR DRAIN	RGRTR	REGISTER
(E)	DIAMETER	F.J.	FLOOR JOISTS	REINF	REINFORCE
(N)	EXISTING	FLUOR.	FLUORESCING	REF	REFERENCE
⊥	NEW	FT.	FOOT OR FEET	REFG.	REFRIGERATOR
#	PERPENDICULAR	FTG.	FOOTING	REQ.	REQUIRED
	POUND	FAU.	FORCED AIR UNIT	RESIL.	RESILIENT
ABV.	ABOVE	FRAM'G	FOUNDATION	REDWOOD	REDWOOD
AB	ANCHOR BOLT	FLS./FS	FRAMING	REV	REVERSE
ACOUS.	ACOUSTICAL	FURR.	FLOORING	R.	RISER/ RADIUS
A.D.	AREA DRAIN	FUT.	FUTURE	RM.	ROOM
ADJ.	ADJUSTABLE			R.O.	ROUGH OPENING
AFF	ABOVE FINISH FLOOR	GALV.	GALVANIZED	S.N.D.	SANITARY NAPKIN
AGGR	AGGREGATE	G.I.	GALVANIZED IRON	S.N.R.	DISPENSER
AL./ALUM.	ALUMINUM	G.S.M.	GALVANIZED SHEET METAL	S.N.R.	SANITARY NAPKIN
APPROX.	APPROXIMATE	GA.	GALVE	SCHED.	SCHEDULE
ARCH.	ARCHITECT	GL.	GLASS	S.C.D.	SEAT COVER DISPENSER
ARCH'L	ARCHITECTURAL	G.B.	GRAB BAR	SECT.	SECTION
ASPH.	ASPHALT	GR.	GRADE	S.C.E.D.	SEE CIVIL ENGINEER
AWG.	AWNING	GND.	GROUND		DRAWINGS
		GFI.	GROUND FAULT INTERRUPTER	S.E.D.	SEE ELECTRICAL DRAWINGS
BM.	BEAM	GYP.	GYPSPUM	S.L.D.	SEE LANDSCAPE DRAWINGS
BITUM.	BITUMINOUS	GYP.BD.	GYPSPUM BOARD	S.M.D.	SEE MECHANICAL DRAWINGS
BLK.	BLOCK	H/C	HANDICAP	S.P.D.	SEE PLUMBING DRAWINGS
BLK.G.	BLOCKING	H.D.C.P.	HANDICAP/HANDICAPPED	S.S.D.	SEE STRUCTURAL DRAWINGS
BD.	BOARD	HDWE.	HARDWARE	S.S.X.	SERVICE SINK
BLT.	BOLT	HGT./HT.	HARDWOOD	SW.	SHEAR WALL
BOT.	BOTTOM	HGT.	HEIGHT	SHT.	SHOWER
BLDG.	BUILDING	H.C.	HOLLOW CORE	SHR.	SIMILAR
		H.M.	HOLLOW METAL	SH	SINGLE HUNG/SHELF
CAB.	CABINET	HORIZ.	HORIZONTAL	S.	SINK
C.O.	CASED OPENING	H.B.	HOSE BIB	SKYLT	SKYLIGHT
C.B.	CATCH BASIN	H.P.	HIGH POINT	SL.	SLIDING/ SLOPE
CPT	CARPET	HR.	HOUR	SD.	SMOKE DETECTOR
CAS	CASEMENT	H.V.A.C.	HEATING, VENTING & AIR CONDITIONING	S.D.	SOAP DISPENSER
CHLK.	CHAIN LINK	I.D.	INSIDE DIAMETER	S.C.	SOLID CORE
C.I.	CAST IRON	INT.	INTERIOR	S.	SOUTH
CLKG.	CAULKING	I.C.B.O.	INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS	SP	SPACE
C.J.	CEILING JOISTS	JAN.	JANITOR	SPEC.	SPECIFICATION
CLG.	CEILING	JT.	JOINT	SQ.	SQUARE
CEM.	CEMENT	K.D.	KILN DRIED	SQ.FT.	SQUARE FOOT
CTR.	CENTER	KIT.	KITCHEN	SQ.IN.	SQUARE INCH
CER.	CERAMIC TILE	LAB	LABORATORY	SST	STAINLESS STEEL
C.T.	CERAMIC TILE	LAM	LAMINATE	STD.	STANDARD
CLR.	CLOSET	LAV.	LAVATORY	STA.	STATION
CLO.	CONCRETE MASONRY UNIT	LT.	LIGHT	STL.	STEEL
CMU	CONCRETE MASONRY UNIT	LKR.	LOCKER	STOR.	STORAGE
COL.	COLUMN	MB	MACHINE BOLT	STR.	STRUCTURAL
CVT.	COMPOSITION VINYL TILE	MFR.	MANUFACTURER	STRUC	STRUCTURE
CONC/C.	CONNECTION	MFG	MANUFACTURING	SUSP	SUSPENDED
CONN.	CONSTRUCTION	MAX.	MAXIMUM	SYM.	SYMMETRICAL
CONST.	CONTINUOUS	MECH.	MECHANICAL	TEL.	TELEPHONE
CONT.	CORRIDOR	M.C.	MEDICINE CABINET	T.V.	TELEVISION
CORR.	CORNER GAURD	MEMB.	MEMBRANE	TEMP.	TEMPERED/TEMPORARY
CG	COUNTERSINK	MET.	METAL	TERR.	TERRAZZO
CTSK	DEPARTMENT	MH.	MAN HOLE	THK./TK	THICK
	DETAIL	MIN.	MINIMUM	TL	TILE
DEPT.	DOUGLAS FIR	MIR.	MIRROR	T.P.D.	TOILET PAPER DISPENSER
DET.	DRINKING FOUNTAIN	MISC.	MISCELLANEOUS	T.G.	TONGUE AND GROOVE
D.F.	MECHANICAL	M.O.	MASONRY OPENING	T.O.C.	TOP OF CURB
D.M.	DIMENSION	MOUNT.	MOUNTED	T.O.P.	TOP OF PAVEMENT
DISP.	DISPENSER	MUL.	MULLION	T.O.S.	TOP OF SUBFLOOR/SLAB
DR.	DOOR	N.	NORTH	T.O.SHTG.	TOP OF SHEATHING
D.O.	DOOR OPENING	NOM.	NOMINAL	T.O.P.	TOP OF PLATE
DBL	DOUBLE	N.I.C.	NOT IN CONTRACT	T.O.W.	TOP OF WALL/WINDOW
DH.	DOUBLE HUNG	N.T.S.	NOT TO SCALE	T.B.	TOWEL BAR
DN.	DOWN	NO or #	NUMBER	TREAD	TREAD
DS.	DOWN SPOUT	OBS.	OBSCURE	VCT	VINYL COMPOSITION TILE
D.S.P.	DRY STAND PIPE	O.F.E.	OWNER FURNISHED EQUIPMENT	W.	WEST/WAX
DWR.	DRAWER	OFF.	OFFICE	WCST	WAINSCOT
DWG'S	DRAWINGS	O.C.	ON CENTER	W.C.	WATER CLOSET
		OPNG.	OPENING	WH.	WATER HEATER
E.	EAST	OPP.	OPPOSITE	WP	WATERPROOF
E.A.	EACH	O.H.	OPPOSITE HAND	W.	WEIGHT
E.I.F.S.	EXTERIOR INSULATED FINISH SYSTEM	O.D.	OUTSIDE DIAMETER (dia)	W/O.	WITHOUT
		O/O.	OVER	WD.	WOOD
E.J.	EXPANSION JOINT	O.A.	OVERALL		
EP.	ELECTRICAL PANELBOARD	OH.	OVER HANG/OVERHEAD		
EL./ELEV	ELEVATION	PR	PAIR		
ELEV	ELEVATOR	PTD	PAINTED		
EMER.	EMERGENCY	PNL	PANEL		
ENCL.	ENCLOSURE	P.T.D.	PAPER TOWEL DISPENSER		
EQ.	EQUAL	P.T.D/R	PAPER TOWEL DISPENSER AND RECEPTACLE COMBO		
EQUPT.	EQUIPMENT	PTR.	PARTITION		
E.W.C.	ELECTRICAL WATER COOLER	PTN	PAPER TOWEL RECEPTACLE		
EXST.	EXISTING	P.D.	PLASTER		
EXP.	EXPANSION	PLAS.	PLASTIC LAMINATE		
EXPO.	EXPOSED	PL.	PLATE		
EXT.	EXTERIOR	PLUMB	PLUMBING		
		PLYWD/PLY	PLYWOOD		
F.C.	FACE OF CONCRETE	PT.	POINT/PRESSURE TREATED		
F.B.	FACE OF CONCRETE BLOCK	P.T.	POURED IN PLACE		
F.O.M.	FACE OF MULLION	P.F.P	PREFABRICATED		
F.D.	FLOOR DRAIN	P/L	PROPERTY LINE		
F.O.F.	FACE OF FINISH	PRCST.	PRE-CAST		
F.O.S.	FALSE FRONT/FINISH FLOOR				
F.F.	FINISH				
FN.	FINISH GRADE				
FG	FIRE ALARM				
F.A.	FIRE ALARM				
F.E.	FIRE EXTINGUISHER				
F.E.C.	FIRE EXTINGUISHER CAB.				
F.H.C.	FIRE HOSE CABINET				
FRF.	FIREPROOF				
FIX.	FIXED				
FLASH.	FLASHING				

GENERAL NOTES:

- THESE PLANS ARE FOR GENERAL CONSTRUCTION PURPOSES ONLY. THEY ARE NOT EXHAUSTIVELY DETAILED NOR FULLY SPECIFIED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY DIMENSIONS, CONDITIONS, MATERIALS, EQUIPMENT, SELECTIONS, AND TITLE 24 COMPLIANCE.
- THE CONTRACTOR SHALL VERIFY ALL SITE GRADES, EXISTING IMPROVEMENTS, PROPERTY LINES, EASEMENTS, SETBACKS, AND UTILITIES, AND REPORT WHERE DISCREPANCIES OCCUR.
- DO NOT SCALE THE DRAWINGS. DIMENSIONS ARE TO FACE OF FINISH AND ACTUAL DOOR OPENING WIDTH UNLESS OTHERWISE NOTED (U.O.N.). ALL DIMENSIONS NOTED "CLEAR" OR "CLR" ARE FOR EQUIPMENT CLEARANCES AND MUST BE STRICTLY MAINTAINED. ALL DIMENSIONS NOTED "VERIFY" OR V. I. F. ARE TO BE CHECKED BY CONTRACTOR PRIOR TO AND DURING CONSTRUCTION. DIMENSIONS TAKE PRECEDENCE OVER SCALE OF THE DRAWING; DO NOT SCALE DRAWINGS.
- MANUFACTURER'S MATERIALS, EQUIPMENT, ETC., SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND INSTRUCTIONS (U.O.N.). THE CONTRACTOR ACKNOWLEDGES THAT THE DRAFTER SHALL NOT SUPERVISE, DIRECT, OR HAVE CONTROL OVER THE WORK NOR SHALL THE DRAFTER HAVE ANY RESPONSIBILITY FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES SELECTED BY THE CONTRACTOR NOR THE CONTRACTOR'S SAFETY PRECAUTIONS OR PROGRAMS IN CONNECTION WITH THE WORK. THESE RIGHTS AND RESPONSIBILITIES ARE SOLELY THOSE OF THE CONTRACTOR IN ACCORDANCE WITH THESE CONTRACT DOCUMENTS.
- INSTALLATION INSTRUCTIONS FOR ALL LISTED EQUIPMENT SHALL BE PROVIDED TO THE FIELD INSPECTOR AT TIME OF INSPECTION.
- EXTERIOR WINDOWS AND DOORS SHALL MEET THE DESIGN PRESSURE RATING REQUIREMENTS OF CBC §1714.5.
- DOORS AND WINDOWS TO THE EXTERIOR SHALL BE FULLY WEATHER STRIPPED.
- LANDINGS SHALL NOT BE MORE THAN 7-3/4" LOWER THAN THRESHOLD AND MAINTAIN 1/4" INCH PER FOOT SLOPE AWAY FROM BUILDING FOR DRAINAGE.
- SLOPE ALL GRADES AWAY FROM NEW CONSTRUCTION AT 6" FOR EVERY 5'.
- ALL NEW CONSTRUCTION TO BLEND/MATCH EXISTING.
- ALL WOOD TO BE DOUGLAS FIR #2 OR BETTER, U.O.N.
- ALL CONCRETE TO BE 2,500 P.S.I. @ 28 DAYS U.O.N.
- PROVIDE FIRE DEPARTMENT ACCESS AT ALL TIMES DURING CONSTRUCTION.
- CONTRACTOR IS TO PROVIDE AND INSTALL ALL WORK SHOWN ON DRAWINGS, SUBJECT TO THE LIMITATIONS OF SCOPE OF THE BASE BID, LISTED ABOVE. THE CONTRACTOR SHALL PROVIDE MISCELLANEOUS FASTENERS, BLOCKING AND SEALANTS INCIDENTAL TO COMPLETE THE CONTRACTED WORK. THIS SHALL INCLUDE SUPPLYING AND INSTALLING NECESSARY BACKING INSIDE WALLS FOR THE INSTALLATION OF WALL HANGING ACCESSORIES WHERE INDICATED. ALL WORK SHALL BE INSTALLED AS SHOWN ON DRAWINGS, PLUMB, AND LEVEL, TRUE TO LINE AND SECURELY FASTENED OR ANCHORED.
- CONTRACTOR SHALL REVIEW ALL PLANS AND SPECIFICATIONS TO COORDINATE WITH EXISTING BUILDING CONDITIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BRING ANY FIELD OBSERVED CODE VIOLATIONS, OR INCORRECT EXISTING CONSTRUCTION INCLUDING APPARENT CONFLICTS BETWEEN THE EXISTING CONSTRUCTION AND THE CONTRACT DRAWINGS TO THE IMMEDIATE ATTENTION OF THE DESIGNER. DO NOT SCALE DRAWINGS, CONTACT DESIGNER FOR CLARIFICATION OF DIMENSIONS.
- CONTRACTOR SHALL MAKE EVERY REASONABLE EFFORT TO PROTECT THE POSSESSIONS OF THE OWNER THAT REMAIN IN OR ADJACENT TO THE WORK FROM LOSS OR DAMAGE. ANY PORTION OF THE PROPERTY DAMAGED BY THE CONTRACTOR OR SUBCONTRACTOR DURING THE COURSE OF THE WORK MUST BE REPAIRED AT NO ADDITIONAL COST TO THE OWNER. THE TERM "DAMAGES" SHALL INCLUDE, BUT NOT BE LIMITED TO ANY DAMAGE CAUSED BY CONTRACT OPERATION OR WORKERS DURING CONSTRUCTION TO THE OWNER'S RESIDENCE, FURNISHINGS, CLOTHING, FENCES, ADJOINING PROPERTIES OR TO PUBLIC SPACES.

PLUMBING NOTES:

- SHOWER HEADS SHALL HAVE A MAXIMUM FLOW RATE OF 1.8 GPM MEASURED AT 80 PSI AND MUST COMPLY WITH DIVISION 4.3 OF THE CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN) PER CPC SECTION 408.2.
- SHOWER TO BE PROVIDED WITH PRESSURE BALANCE OR THERMOSTATIC MIXING VALVE CONTROLS
- THE SIZE OF WATER CLOSETS TO BE MAXIMUM 1.28 GALLONS PER FLOW.
- FAUCETS AT LAVATORIES SHALL HAVE A MAXIMUM WATER SUPPLY FLOW RATE OF 1.2 GPM.
- KITCHEN SINK FAUCETS SHALL HAVE A MAXIMUM FLOW RATE OF 1.8 GPM.
- PROVIDE 1-1/2" DRAIN LINE MINIMUM FROM KITCHEN. CPC 420.3
- PROVIDE A LISTED AIR GAP FOR DISHWASHER. CPC 414.3
- PROVIDE A DEDICATED GAS LINE FROM THE METER TO THE APPLIANCE.
- PROVIDE NON-REMOVABLE BACKFLOW PREVENTION DEVICE ON ALL EXTERIOR HOSE BIBS.
- MINIMUM OF 1/4" PER FOOT (2%) SLOPE FOR ALL HORIZONTAL DRAINAGE PIPING.
- SEISMIC STRAPPING FOR HOT WATER HEATER REQUIRED PER CPC SECTION 508.2.
- THE HOT WATER HEATER TEMPERATURE/PRESSURE RELIEF VALVE SHALL HAVE ATTACHED TO IT A PIPE WHICH WILL RUN OUTSIDE THE BUILDING WITH THE END OF THE PIPE BETWEEN 6 & 24 INCHES ABOVE GRADE & POINTED DOWN
- ALL NEW GAS PIPING SHALL BE SIZED TO SUPPLY SUFFICIENT GAS TO THE APPLIANCES. THE GAS PIPING SHALL BE TESTED WITH 10 LBS. OF PRESSURE FOR A MINIMUM OF 15 MINUTES.
- HOT WATER PIPING 3/8" AND GREATER SERVING A KITCHEN SHALL BE INSULATED WITH MINIMUM 1" WALL THICKNESS INSULATION.
- ALL OVEN AND STOVE GAS VALVES SHALL BE READILY ACCESSIBLE AND BE WITHIN 3'-0" OF THE APPLIANCE. CONNECTORS MAY NOT BE CONCEALED OR PASS THROUGH ANY FLOOR, WALL PARTITION, CEILING, OR APPLIANCE HOUSING CABINET.
- A 2" ACCESSIBLE PLUMBING CLEANOUT UNDER THE SINK SHALL BE REQUIRED.
- AN AIR GAP ABOVE THE SINK RIM SHALL BE INSTALLED BETWEEN THE DISHWASHER DRAINPIPE AND THE GARBAGE DISPOSAL INLET.

MECHANICAL NOTES:

- PER CMC, SECTION 502.2.1, BACK DRAFT DAMPER ARE REQUIRED ON VENTILATION SYSTEMS EXHAUSTING TO THE EXTERIOR. POINT OF EXHAUST VENT MUST BE A MINIMUM OF 3'-0" FROM A PROPERTY LINE OR OPENINGS INTO THE BUILDINGS SUCH AS DOORS, WINDOWS, OPENING SKYLIGHTS, ATTIC VENTS.
- PROVIDE EXHAUST HOOD OVER RANGE/ COOKTOP, 100 CFM MINIMUM AND IT SHALL TERMINATE OUTSIDE.
- A VERTICAL MINIMUM CLEARANCE OF 30" IS REQUIRED ABOVE A RANGE TO COMBUSTIBLES MATERIALS, AND A MINIMUM VERTICAL CLEARANCE OF 24" ABOVE THE RANGE TO THE BUILT-IN MICROWAVE OVENS IS REQUIRED. NOTE: LARGER UNITS REQUIRE GREATER CLEARANCES, REFER TO MANUFACTURER REQUIREMENTS.

ELECTRICAL NOTES:

- ARC FAULT CIRCUIT INTERRUPTER (AFCI) REQUIRED FOR ALL NEW 120-VOLT, SINGLE-PHASE, 15 AND 20 AMPERE BRANCH CIRCUITS SUPPLYING OUTLETS INSTALLED IN KITCHENS, BATHROOMS, FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DENS, BEDROOMS, SUNROOMS, RECREATION ROOMS, CLOSETS, LAUNDRY ROOMS, GARAGE, HALLWAYS, OR SIMILAR ROOMS OR AREAS.
- PER CEC 406.12, PROVIDE TAMPER-RESISTANT RECEPTACLES IN AREAS SPECIFIED IN CEC 210.52, SPECIFICALLY ALL 125-VOLT, 15- AND 20-AMPERE RECEPTACLES IN AREAS SUCH AS KITCHENS, BATHROOMS, FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DENS, SUNROOMS, BEDROOMS, RECREATION ROOMS, LAUNDRY ROOMS, GARAGE, OR SIMILAR ROOMS OR AREAS OF A DWELLING UNIT.
- RECEPTACLES SHALL BE INSTALLED SUCH THAT NO POINT MEASURED HORIZONTALLY ALONG THE FLOOR LINE OF ANY WALL SPACE IS MORE THAN 6 FEET FROM A RECEPTACLE OUTLET. THIS ALLOWS FOR A MAXIMUM OF 12 FEET BETWEEN RECEPTACLES ON THE SAME WALL.
- SMOKE ALARM. WHEN A PERMIT IS REQUIRED FOR ALTERATIONS, REPAIRS OR ADDITIONS EXCEEDING \$1,000, EXISTING DWELLINGS THAT HAVE ATTACHED GARAGES OR FUEL BURNING APPLIANCES, SMOKE DETECTORS SHALL BE INSTALLED: (A) IN EACH SLEEPING ROOM, (B) OUTSIDE EACH SEPARATE SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE BEDROOMS, (C) ON EACH STORY OF THE DWELLING, INCLUDING BASEMENTS AND HABITABLE ATTICS BUT NOT INCLUDING CRAWL SPACES AND UNINHABITABLE ATTICS. NEW SMOKE ALARMS TO BE INTERCONNECTED. SMOKE ALARMS SHALL RECEIVE THEIR PRIMARY POWER FROM THE BUILDING WIRING PROVIDED THAT SUCH WIRING IS SERVED FROM A COMMERCIAL SOURCE AND SHALL BE EQUIPPED WITH A BATTERY BACKUP. SMOKE ALARMS WITH INTEGRAL STROBES THAT ARE NOT EQUIPPED WITH BATTERY BACKUP SHALL BE CONNECTED TO AN EMERGENCY ELECTRICAL SYSTEM. SMOKE ALARMS SHALL EMIT A SIGNAL WHEN THE BATTERIES ARE LOW. WIRING SHALL BE PERMANENT AND WITHOUT A DISCONNECTING SWITCH OTHER THAN AS REQUIRED FOR OVERCURRENT PROTECTION.
- CARBON MONOXIDE ALARM. WHEN A PERMIT IS REQUIRED FOR ALTERATIONS, REPAIRS OR ADDITIONS EXCEEDING \$1,000, EXISTING DWELLINGS THAT HAVE ATTACHED GARAGES OR FUEL BURNING APPLIANCES SHALL BE PROVIDED WITH A CARBON MONOXIDE ALARM IN THE FOLLOWING LOCATIONS: (A) OUTSIDE OF THE DWELLING UNIT SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE BEDROOM(S); (B) ON EVERY LEVEL OF A DWELLING UNIT INCLUDING BASEMENTS. CARBON MONOXIDE ALARMS SHALL RECEIVE THEIR PRIMARY POWER FROM THE BUILDING WIRING WHERE SUCH WIRING IS SERVED FROM A COMMERCIAL SOURCE AND, WHERE PRIMARY POWER IS INTERRUPTED, SHALL RECEIVE POWER FROM A BATTERY. WIRING SHALL BE PERMANENT AND WITHOUT A DISCONNECTING SWITCH OTHER THAN THOSE REQUIRED FOR OVERCURRENT PROTECTION. COMBINATION CARBON MONOXIDE AND SMOKE ALARMS SHALL BE PERMITTED TO BE USED IN LIEU OF CARBON MONOXIDE ALARMS.
- ANY SMOKE ALARM WITHIN 20 FEET OF A PERMANENTLY INSTALLED COOKING APPLIANCE SHALL BE THE IONIZATION OR PHOTOELECTRIC ALARM TYPE AND HAVE A MINIMUM SPACING OF 10 FEET AWAY.
- THE MINIMUM DISCONNECTION MEANS FOR A SINGLE FAMILY DWELLING IS 100 AMPERES, 3-WIRE.
- PROVIDE ADEQUATE GROUND TO ELECTRICAL SERVICE ENTRY PANEL. VERIFY OR PROVIDE BOND TO METAL GAS AND WATER PIPES.
- ELECTRICAL SUB PANELS SHALL NOT BE LOCATED IN THE VICINITY OF EASILY IGNITABLE MATERIALS SUCH AS CLOTHES CLOSETS.
- STAGGER NEW ELECTRICAL OUTLETS BY AT LEAST 24-INCHES ON THE OPPOSITE SIDE OF THE FIRE-WALL (GARAGE/ HOUSE WALL) PER BUILDING CODE SECTION 712.3.2.
- PROVIDE AND INSTALL RECEPTACLE OUTLETS AT HOUSE EXTERIOR WALLS THAT ARE GFCI PROTECTED, GASKETED-COVER TYPE FOR USE IN WET LOCATIONS.
- PROVIDE AT LEAST ONE GFCI OUTLET WITHIN 3 FEET OF EACH SINK IN THE BATHROOMS.
- AT LEAST ONE NEW LUMINAIRE IN EACH BATHROOM SHALL BE CONTROLLED BY A VACANCY SENOR.
- PER CEC, AT LEAST ONE 20-AMP BRANCH CIRCUIT SHALL BE PROVIDED TO SUPPLY THE BATHROOM RECEPTACLE OUTLETS. THIS CIRCUIT SHALL HAVE NO OTHER OUTLETS. BATHROOM LIGHTING CANNOT BE ON AN OUTLET CIRCUIT.
- UNDER CABINET LUMINAIRES SHALL BE SEPERATELY SWITCHED
- A MINIMUM OF (2) 20 AMP GFCI PROTECTED CIRCUITS SHALL SUPPLY ALL KITCHEN COUNTER TOP RECEPTACLES, CEC 210.11 (C)(2), & (C) (3).
- PROVIDE 20 AMP DEDICATED CIRCUITS FOR THE DISHWASHER, GARBAGE DISPOSAL, REFRIGERATOR, MICROWAVE AND RANGE
- RECEPTACLE OUTLETS SHALL BE LOCATED NO MORE THAN 20" ABOVE COUNTER TOP AND NO MORE THAN 12" BELOW IF COUNTER DOES NOT EXTEND MORE THAN 6" FROM BASE. PENINSULA COUNTERTOP SPACES 24" LONG OR GREATER AND SHORT DIMENSION 12" OR GREATER SHALL HAVE AT LEAST ONE RECEPTACLE.
- ALL KITCHEN RECEPTACLES SHALL BE GFCI PROTECTED. CEC 210(A) 5 & 6.
- THE KITCHEN COUNTERTOP WALLS SHALL BE NO MORE THAN 24" FROM A GFCI OUTLET. THIS DOES NOT APPLY TO ANY COUNTERTOP WALLS BEHIND SINKS, RANGES OR MOUNTED COOKTOPS.
- THE UNDERCOUNTER ELECTRICAL OUTLET SERVING THE DISHWASHER SHALL BE GFCI PROTECTED. MULTI-WIRE DUPLEX RECEPTACLES FOR GARBAGE DISPOSALS & DISHWASHERS REQUIRE A COMMON TRIP BREAKER IN THE SERVICE PANELS.
- THE MAXIMUM LENGTH FOR A GARBAGE DISPOSAL CORD IS 36" AND A DISHWASHER IS 48". ATTACHMENT PLUG AND RECEPTACLE SHALL BE ACCESSIBLE AND LABELED.
- ISLANDS OR PENINSULAS REQUIRE AT LEAST 1 RECEPTACLE. RECEPTACLES MAY NOT BE MORE THAN 12" BELOW THE COUNTER SURFACE OR BE BELOW A COUNTER THAT EXTENDS MORE THAN 6" BEYOND A CABINETS END.
- A MINIMUM OF 3'-0" CLEARANCE IS REQUIRED BETWEEN THE COUNTER FRONTS AND APPLIANCES, OR COUNTER FRONTS AND WALLS.
- DIMMERS OR VACANCY SENSORS ARE REQUIRED TO CONTROL ALL HIGH-EFFICACY LUMINAIRES, EXCEPT CLOSETS LESS THAN 70 SQ FT & HALLWAYS
- ALL NEW RECESSED LIGHTING SHALL COMPLY WITH THE REFERENCE JOINT APPENDIX JAB AND SHALL NOT CONTAIN SCREW BASE SOCKET. CA ENERGY SECTIONS 150.0 (K) 1 C.
- RECESSED LIGHTING FIXTURES TO BE LISTED FOR ZERO CLEARANCE INSULATION CONTACT (IC) IN ACCORDANCE W/ CEC 150(K)(L)(A).
- ALL PROPOSED LIGHTING TO BE HIGH EFFICACY IN ACCORDANCE WITH CEC 150, 0 (K)(L)(A)
- ALL NEW OUTDOOR LIGHTING, IF ANY, IS TO BE HIGH-EFFICACY, TO BE CONTROLLED BY AN ON/OFF SWITCH AND INCLUDE ONE OF THE FOLLOWING PER CA ENERGY CODE SECTION 150.0 (K) 3A.:
 - PHOTOCELL AND MOTION SENSOR
 - PHOTOCONTROL AND AUTOMATIC TIME SWITCH CONTROL
 - ASTRONOMICAL TIME CLOCK CONTROL.
 - ENERGY MANAGEMENT CONTROL SYSTEM

Revision History

	AS-BUILT
	PRELIMINARY DESIGN
	DESIGN
	PERMIT SET
1	PLAN REVIEW COMMENTS
2	PLAN REVIEW COMMENTS

REMODEL & ADDITION	OWNER:

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CODE & CONSTRUCTION NOTES

A0.2

INSPECTOR SIGNOFF

CHAPTER 3 GREEN BUILDING SECTION 301 GENERAL

301.1 SCOPE. Buildings shall be designed to include the green building measures specified as mandatory in the application checklists contained in this code.

301.1.1 Additions and alterations. [HCD] The mandatory provisions of Chapter 4 shall be applied to additions or alterations of existing residential buildings where the addition or alteration increases the building's conditioned area, volume, or size.

Notes: On and after January 1, 2014, residential buildings undergoing permitted alterations, additions, or improvements shall replace noncompliant plumbing fixtures with water-conserving plumbing fixtures.

301.2 LOW-RISE AND HIGH-RISE RESIDENTIAL BUILDINGS. [HCD] The provisions of individual sections of CALGreen may apply to either low-rise residential buildings high-rise residential buildings, or both.

SECTION 302 MIXED OCCUPANCY BUILDINGS

302.1 MIXED OCCUPANCY BUILDINGS. In mixed occupancy buildings, each portion of a building shall comply with the specific green building measures applicable to each specific occupancy.

ABBREVIATION DEFINITIONS:

Table with 2 columns: Abbreviation and Definition. Includes HCD, BSC, DSA-SS, OSHPD, LR, HR, AA, N.

CHAPTER 4 RESIDENTIAL MANDATORY MEASURES DIVISION 4.1 PLANNING AND DESIGN

SECTION 4.102 DEFINITIONS

4.102.1 DEFINITIONS The following terms are defined in Chapter 2 (and are included here for reference)

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 water.

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.

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.

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.

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

4.106.3 GRADING AND PAVING. Construction plans shall indicate how the site grading or drainage system will manage all surface water flows to keep water from entering buildings.

- 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 drainage path.

4.106.4 Electric vehicle (EV) charging for new construction. New construction shall comply with Sections 4.106.4.1 and 4.106.4.2 to facilitate future installation and use of EV chargers.

Exceptions: On a case-by-case basis, where the local enforcing agency has determined EV charging and infrastructure are not feasible based upon one or more of the following conditions:

- 1. Where there is no commercial power supply.
2. Where there is evidence substantiating that meeting the requirements will alter the local utility infrastructure design requirements on the utility side of the meter so as to increase the utility side cost to the homeowner or developer by more than \$400.00 per unit.

4.106.4.1 New one- and two-family dwellings and townhouses with attached private garages. For each dwelling unit, install a listed raceway to accommodate a dedicated 208/240-volt branch circuit.

4.106.4.1.1 Identification. The service panel or subpanel circuit directory shall identify the overcurrent protective device space(s) reserved for future EV charging as "EV CAPABLE".

4.106.4.2 New multifamily dwellings. Where 17 or more multifamily dwelling units are constructed on a building site, 3 percent of the total number of parking spaces provided for all types of parking facilities, but in no case less than one, shall be electric vehicle charging stations (EV spaces) capable of supporting future EVSE.

Notes: Construction documents are intended to demonstrate the project's capability and capacity for facilitating future EV charging. There is no requirement for EV spaces to be constructed or available until EV chargers are installed for use.

4.106.4.2.1 Electric vehicle charging space (EV space) locations. Construction documents shall indicate the location of proposed EV spaces. At least one EV space shall be located in common use areas and available for use by all residents.

When EV chargers are installed, EV spaces required by Section 4.106.2.2, Item 3, shall comply with at least one of the following options:

- 1. The EV space shall be located adjacent to an accessible parking space meeting the requirements of the California Building Code, Chapter 11A, to allow use of the EV charger from the accessible parking space.
2. The EV space shall be located on an accessible route, as defined in the California Building Code, Chapter 2, to the building.

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4.106.4.2.2 Electric vehicle charging space (EV space) dimensions. The EV space shall be designed to comply with the following:

- 1. The minimum length of each EV space shall be 18 feet (5486 mm).
2. The minimum width of each EV space shall be 9 feet (2743 mm).
3. One in every 25 EV spaces, but not less than one EV space, shall have an 8-foot (2438 mm) wide minimum aisle. A 5-foot (1524 mm) wide minimum aisle shall be permitted provided the minimum width of the EV space is 12 feet (3658 mm).
a. Surface slope for the EV space and the aisle shall not exceed 1 unit vertical in 48 units horizontal (2.083 percent slope) in any direction.

4.106.4.2.3 Single EV space required. Install a listed raceway capable of accommodating a 208/240-volt dedicated branch circuit. The raceway shall not be less than trade size 1 (nominal 1-inch inside diameter).

4.106.4.2.4 Multiple EV spaces required. Construction documents shall indicate the raceway termination point and proposed location of future EV spaces and EV chargers.

4.106.4.2.5 Identification. The service panel or subpanel circuit directory shall identify the overcurrent protective device space(s) reserved for future EV charging purposes as "EV CAPABLE" in accordance with the California Electrical Code.

Notes:

- 1. The California Department of Transportation adopts and publishes the "California Manual on Uniform Traffic Control Devices (California MUTCD)" to provide uniform standards and specifications for all official traffic control devices in California.
2. See Vehicle Code Section 22511 for EV charging space signage in off-street parking facilities and for use of EV charging spaces.
3. The Governor's Office of Planning and Research (OPR) published a "Zero-Emission Vehicle Community Readiness Guidebook" which provides helpful information for local governments, residents and businesses.

DIVISION 4.2 ENERGY EFFICIENCY

4.201 GENERAL

4.201.1 SCOPE. For the purposes of mandatory energy efficiency standards in this code, the California Energy Commission will continue to adopt mandatory standards.

DIVISION 4.3 WATER EFFICIENCY AND CONSERVATION

4.303 INDOOR WATER USE

4.303.1 WATER CONSERVING PLUMBING FIXTURES AND FITTINGS. Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall comply with the following:

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 wall mounted urinals shall not exceed 0.125 gallons per flush. The effective flush volume of all other urinals shall not exceed 0.5 gallons per flush.

4.303.1.3 Showerheads.

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

4.303.1.3.2 Multiple showerheads serving one shower. When a shower is served by more than one showerhead, the combined flow rate of all the 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 only allow one shower outlet to be in operation at a time.

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

4.303.1.4 Faucets.

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

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

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

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

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

4.303.2 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 California Plumbing Code.

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

Table with 2 columns: Fixture Type and Flow Rate. Lists Shower Heads, Lavatory Faucets, Kitchen Faucets, Metering Faucets, Water Closet, and Urinals with their respective flow rates.

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4.304 OUTDOOR WATER USE

4.304.1 IRRIGATION CONTROLLERS. Automatic irrigation system controllers for landscaping provided by the builder and installed at the time of final inspection shall comply with the following:

- 1. Controllers shall be weather- or soil moisture-based controllers that automatically adjust irrigation in response to changes in plants' needs as weather conditions change.
2. Weather-based controllers without integral rain sensors or communication systems that account for local rainfall shall have a separate wired or wireless rain sensor which connects or communicates with the controller(s). Soil moisture-based controllers are not required to have rain sensor input.

Note: More information regarding irrigation controller function and specifications is available from the Irrigation Association.

DIVISION 4.4 MATERIAL CONSERVATION AND RESOURCE EFFICIENCY

4.406 ENHANCED DURABILITY AND REDUCED MAINTENANCE

4.406.1 RODENT PROOFING. Annular spaces around pipes, electric cables, conduits or other openings in sole/bottom plates at exterior walls shall be protected against the passage of rodents by closing such openings with cement mortar, concrete masonry or a similar method acceptable to the enforcing agency.

4.408 CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING

4.408.1 CONSTRUCTION WASTE MANAGEMENT. Recycle and/or salvage for reuse a minimum of 65 percent of the non-hazardous construction and demolition waste in accordance with either Section 4.408.2, 4.408.3 or 4.408.4, or meet a more stringent local construction and demolition waste management ordinance.

Exceptions:

- 1. Excavated soil and land-clearing debris.
2. Alternate waste reduction methods developed by working with local agencies if diversion or recycle facilities capable of compliance with this item do not exist or are not located reasonably close to the jobsite.
3. The enforcing agency may make exceptions to the requirements of this section when isolated jobsite are located in areas beyond the haul boundaries of the diversion facility.

4.408.2 CONSTRUCTION WASTE MANAGEMENT PLAN. Submit a construction waste management plan in conformance with Items 1 through 5. The construction waste management plan shall be updated as necessary and shall be available during construction for examination by the enforcing agency.

- 1. Identify the construction and demolition waste materials to be diverted from disposal by recycling, reuse on the project or salvage for future use or sale.
2. Specify if construction and demolition waste materials will be sorted on-site (source separated) or bulk mixed (single stream).
3. Identify diversion facilities where the construction and demolition waste material collected will be taken.
4. Identify construction methods employed to reduce the amount of construction and demolition waste generated.
5. Specify that the amount of construction and demolition waste materials diverted shall be calculated by weight or volume, but not by both.

4.408.3 WASTE MANAGEMENT COMPANY. Utilize a waste management company, approved by the enforcing agency, which can provide verifiable documentation that the percentage of construction and demolition waste material diverted from the landfill complies with Section 4.408.1.

Note: The owner or contractor may make the determination if the construction and demolition waste materials will be diverted by a waste management company.

4.408.4 WASTE STREAM REDUCTION ALTERNATIVE [LR]. Projects that generate a total combined weight of construction and demolition waste disposed of in landfills, which do not exceed 3.4 lbs./sq.ft. of the building area shall meet the minimum 65% construction waste reduction requirement in Section 4.408.1.

4.408.4.1 WASTE STREAM REDUCTION ALTERNATIVE. Projects that generate a total combined weight of construction and demolition waste disposed of in landfills, which do not exceed 2 lbs./sq.ft. of the building area, shall meet the minimum 65% construction waste reduction requirement in Section 4.408.1.

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

Notes:

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

4.410 BUILDING MAINTENANCE AND OPERATION

4.410.1 OPERATION AND MAINTENANCE MANUAL. At the time of final inspection, a manual, compact disc, web-based reference or other media acceptable to the enforcing agency which includes all of the following shall be placed in the 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 following:
a. Equipment and appliances, including water-saving devices and systems, HVAC systems, photovoltaic systems, electric vehicle chargers, water-heating systems and other major appliances and equipment.
b. Roof and yard drainage, including gutters and 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.
8. Information on required routine maintenance measures, including, but not limited to, caulking, painting, grading around the building, etc.
9. Information about state solar energy and incentive programs available.
10. A copy of all special inspectors verifications required by the enforcing agency or this [California Green Building Standards] code.

4.410.2 RECYCLING BY OCCUPANTS. Where 5 or more multifamily dwelling units are constructed on a building site, provide readily accessible area(s) that serves all buildings on the site and is identified for the depositing, storage and collection of non-hazardous materials for recycling, including (at a minimum) paper, corrugated cardboard, glass, plastics, organic waste, and metals, or meet a lawfully enacted local recycling ordinance, if more restrictive.

DIVISION 4.5 ENVIRONMENTAL QUALITY

SECTION 4.501 GENERAL

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

SECTION 4.502 DEFINITIONS

5.102.1 DEFINITIONS The following terms are defined in Chapter 2 (and are included here for reference)

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" does not include hardboard, structural plywood, structural panels, structural composite lumber, oriented strand board, glued laminated timber, prefabricated wood I-joists or finger-jointed lumber, all as specified in California Code of regulations (CCR), title 17, Section 93120.1.

DIRECT-VENT APPLIANCE. A fuel-burning appliance with a sealed combustion system that draws all air for combustion from the outside atmosphere and discharges all flue gases to the outside atmosphere.

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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 ROG).

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).

REACTIVE ORGANIC COMPOUND (ROC). Any compound that has the potential, once emitted, to contribute to ozone formation in the troposphere.

VOC. A volatile organic compound (VOC) broadly defined as a chemical 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 may contain oxygen, nitrogen and other elements. See CCR Title 17, Section 94508(a).

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 New Source Performance Standards (NSPS) emission limits as applicable, and shall have a permanent label indication they are certified to meet the emission limits.

4.504 POLLUTANT CONTROL

4.504.1 COVERING OF DUCT OPENINGS & PROTECTION OF MECHANICAL EQUIPMENT DURING CONSTRUCTION. At the time of rough installation, during storage on the construction site and until final start-up of the heating, cooling and ventilating equipment, all duct and other related air distribution component openings shall be covered with tape, plastic, sheet metal or other methods acceptable to the enforcing agency to reduce the amount of water, dust or debris which may enter 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, sealant and caulks used on the project shall meet the requirements of the following standards unless more stringent local or regional air pollution or air quality management district rules apply:

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

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

4.504.2.3 Aerosol Paints and Coatings. Aerosol paints and coatings shall meet the Product-weighted MIR Limits for ROC in Section 94522(a)(2) and other requirements, including prohibitions on use of certain toxic compounds and ozone depleting substances, in Sections 94522(b)(1) and (f)(1) of California Code of Regulations, Title 17 commencing with Section 94520; and in areas under the jurisdiction of the Bay Area Air Quality Management District additionally comply with the percent VOC by weight of product limits of Regulation 8, Rule 49.

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

- 1. Manufacturer's product specification.
2. Field verification of on-site product containers.

TABLE 4.504.1 - ADHESIVE VOC LIMIT_{1,2}

(Less Water and Less Exempt Compounds in Grams per Liter)

Table with 2 columns: Architectural Applications and Current VOC Limit. Lists various applications like Indoor Carpet Adhesives, Carpet Pad Adhesives, etc. with their corresponding VOC limits.

- 1. IF AN ADHESIVE IS USED TO BOND DISSIMILAR SUBSTRATES TOGETHER, THE ADHESIVE WITH THE HIGHEST VOC CONTENT SHALL BE ALLOWED.
2. FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THIS TABLE, SEE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1168.

Revision History table with columns for revision number, description, and date. Shows AS-BUILT, PRELIMINARY DESIGN, DESIGN, PERMIT SET, PLAN REVIEW COMMENTS, and PLAN REVIEW COMMENTS.

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TABLE 4.504.2 - SEALANT VOC LIMIT (Less Water and Less Exempt Compounds in Grams per Liter)	
SEALANTS	CURRENT VOC LIMIT
ARCHITECTURAL	250
MARINE DECK	760
NONMEMBRANE ROOF	300
ROADWAY	250
SINGLE-PLY ROOF MEMBRANE	450
OTHER	420
SEALANT PRIMERS	
ARCHITECTURAL	
NON-POROUS	250
POROUS	775
MODIFIED BITUMINOUS	500
MARINE DECK	760
OTHER	750

TABLE 4.504.3 - VOC CONTENT LIMITS FOR ARCHITECTURAL COATINGS ₁	
GRAMS OF VOC PER LITER OF COATING, LESS WATER & LESS EXEMPT COMPOUNDS	
COATING CATEGORY	CURRENT VOC LIMIT
FLAT COATINGS	50
NON-FLAT COATINGS	100
NONFLAT-HIGH GLOSS COATINGS	150
SPECIALTY COATINGS	
ALUMINUM ROOF COATINGS	400
BASEMENT SPECIALTY COATINGS	400
BITUMINOUS ROOF COATINGS	50
BITUMINOUS ROOF PRIMERS	350
BOND BREAKERS	350
CONCRETE CURING COMPOUNDS	350
CONCRETE/MASONRY SEALERS	100
DRIVEWAY SEALERS	50
DRY FOG COATINGS	150
FAUX FINISHING COATINGS	350
FIRE RESISTIVE COATINGS	350
FLOOR COATINGS	100
FORM-RELEASE COMPOUNDS	250
GRAPHIC ARTS COATINGS (SIGN PAINTS)	500
HIGH TEMPERATURE COATINGS	420
INDUSTRIAL MAINTENANCE COATINGS	250
LOW SOLIDS COATINGS	120
MAGNESITE CEMENT COATINGS	450
MASTIC TEXTURE COATINGS	100
METALLIC PIGMENTED COATINGS	500
MULTICOLOR COATINGS	250
PRETREATMENT WASH PRIMERS	420
PRIMERS, SEALERS, & UNDERCOATERS	100
REACTIVE PENETRATING SEALERS	350
RECYCLED COATINGS	250
ROOF COATINGS	50
RUST PREVENTATIVE COATINGS	250
SHELLACS	
CLEAR	730
OPAQUE	550
SPECIALTY PRIMERS, SEALERS & UNDERCOATERS	100
STAINS	250
STONE CONSOLIDANTS	450
SWIMMING POOL COATINGS	340
TRAFFIC MARKING COATINGS	100
TUB & TILE REFINISH COATINGS	420
WATERPROOFING MEMBRANES	250
WOOD COATINGS	275
WOOD PRESERVATIVES	350
ZINC-RICH PRIMERS	340

- GRAMS OF VOC PER LITER OF COATING, INCLUDING WATER & EXEMPT COMPOUNDS
- THE SPECIFIED LIMITS REMAIN IN EFFECT UNLESS REVISED LIMITS ARE LISTED IN SUBSEQUENT COLUMNS IN THE TABLE
- VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, ARCHITECTURAL COATINGS SUGGESTED CONTROL MEASURE, FEB. 1, 2008. MORE INFORMATION IS AVAILABLE FROM THE AIR RESOURCES BOARD.

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TABLE 4.504.5 - FORMALDEHYDE LIMITS	
MAXIMUM FORMALDEHYDE EMISSIONS IN PARTS PER MILLION	
PRODUCT	CURRENT LIMIT
HARDWOOD PLYWOOD VENEER CORE	0.05
HARDWOOD PLYWOOD COMPOSITE CORE	0.05
PARTICLE BOARD	0.09
MEDIUM DENSITY FIBERBOARD	0.11
THIN MEDIUM DENSITY FIBERBOARD ₂	0.13

- VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIF. AIR RESOURCES BOARD, AIR TOXICS CONTROL MEASURE FOR COMPOSITE WOOD AS TESTED IN ACCORDANCE WITH ASTM E 1333. FOR ADDITIONAL INFORMATION, SEE CALIF. CODE OF REGULATIONS, TITLE 17, SECTIONS 93120 THROUGH 93120.12.
- THIN MEDIUM DENSITY FIBERBOARD HAS A MAXIMUM THICKNESS OF 5/16" (8 MM).

DIVISION 4.5 ENVIRONMENTAL QUALITY (continued)

4.504.3 CARPET SYSTEMS. All carpet installed in the building interior shall meet the testing and product requirements of at least one of the following:

- Carpet and Rug Institute's Green Label Plus Program.
- 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.
- Scientific Certifications Systems Indoor Advantage 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% of floor area receiving resilient flooring shall comply with one or more of the following:

- Products compliant with the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," in February 2010 (also known as Specification 01350), certified as a CHPS Low-Emitting Material in the Collaborative for High Performance Schools (CHPS) High Performance Products Database.
- Products certified under UL GREENGUARD Gold (formerly the Greenguard Children & Schools program).
- Certification under the Resilient Floor Covering Institute (RFCI) FloorScore program.
- 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).

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

4.504.5.1 Documentation. Verification of compliance with this section shall be provided as requested by the enforcing agency. Documentation shall include at least one of the following:

- Product certifications and specifications.
- Chain of custody certifications.
- Product labeled and invoiced as meeting the Composite Wood Products regulation (see CCR, Title 17, Section 93120, et seq.).
- Exterior grade products marked as meeting the PS-1 or PS-2 standards of the Engineered Wood Association, the Australian AS/NZS 2269, European 636 35 standards, and Canadian CSA 0121, CSA 0151, CSA 0153 and CSA 0325 standards.
- Other methods acceptable to the enforcing agency.

4.505 INTERIOR MOISTURE CONTROL

4.505.1 General. Buildings shall meet or exceed the provisions of the California Building Standards Code.

4.505.2 CONCRETE SLAB FOUNDATIONS. Concrete slab foundations required to have a vapor retarder by 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 installed in compliance with at least one of the following:

- A 4-inch (101.6 mm) thick base of 1/2 inch (12.7mm) or larger clean aggregate shall be provided with a vapor barrier in direct contact with concrete and a concrete mix design, which will address bleeding, shrinkage, and curling, shall be used. For additional information, see American Concrete Institute, ACI 302.2R-06.
- Other equivalent methods approved by the enforcing agency.
- A slab design specified by a licensed design professional.

4.505.3 MOISTURE CONTENT OF BUILDING MATERIALS. Building materials with visible signs of water damage shall not be installed. Wall and floor framing shall not be enclosed when the framing members exceed 19 percent moisture content. Moisture content shall be verified in compliance with the following:

- Moisture content shall be determined with either a probe-type or contact-type moisture meter. Equivalent moisture verification methods may be approved by the enforcing agency and shall satisfy requirements found in Section 101.8 of this code.
- Moisture readings shall be taken at a point 2 feet (610 mm) to 4 feet (1219 mm) from the grade stamped end of each piece verified.
- 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.

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.

4.506 INDOOR AIR QUALITY AND EXHAUST

4.506.1 Bathroom exhaust fans. Each bathroom shall be mechanically ventilated and shall comply with the following:

- Fans shall be ENERGY STAR compliant and be ducted to terminate outside the building.
- Unless functioning as a component of a whole house ventilation system, fans must be controlled by a humidity control.
 - Humidity controls shall be capable of adjustment between a relative humidity range less than or equal to 50% to a maximum of 80%. A humidity control may utilize manual or automatic means of adjustment.
 - A humidity control may be a separate component to the exhaust fan and is not required to be integral (i.e., built-in)

Notes:

- For the purposes of this section, a bathroom is a room which contains a bathtub, shower or tub/shower combination.
- Lighting integral to bathroom exhaust fans shall comply with the California Energy Code.

4.507 ENVIRONMENTAL COMFORT

4.507.2 HEATING AND AIR-CONDITIONING SYSTEM DESIGN. Heating and air conditioning systems shall be sized, designed and have their equipment selected using the following methods:

- The heat loss and heat gain is established according to ANSI/ACCA 2 Manual J - 2011 (Residential Load Calculation), ASHRAE handbooks or other equivalent design software or methods.
- Duct systems are sized according to ANSI/ACCA 1 Manual D - 2014 (Residential Duct Systems), ASHRAE handbooks or other equivalent design software or methods.
- Select heating and cooling equipment according to ANSI/ACCA 3 Manual S - 2014 (Residential Equipment Selection), or other equivalent design software or methods.

Exception: Use of alternate design temperatures necessary to ensure the system functions are edacceptable.

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CHAPTER 7 INSTALLER & SPECIAL INSPECTOR QUALIFICATIONS

702 QUALIFICATIONS

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

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

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

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

Notes:

- Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code.
- HERS raters are special inspectors certified by the California Energy Commission (CEC) to rate homes in California according to the Home Energy Rating System (HERS).

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

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

703 VERIFICATIONS

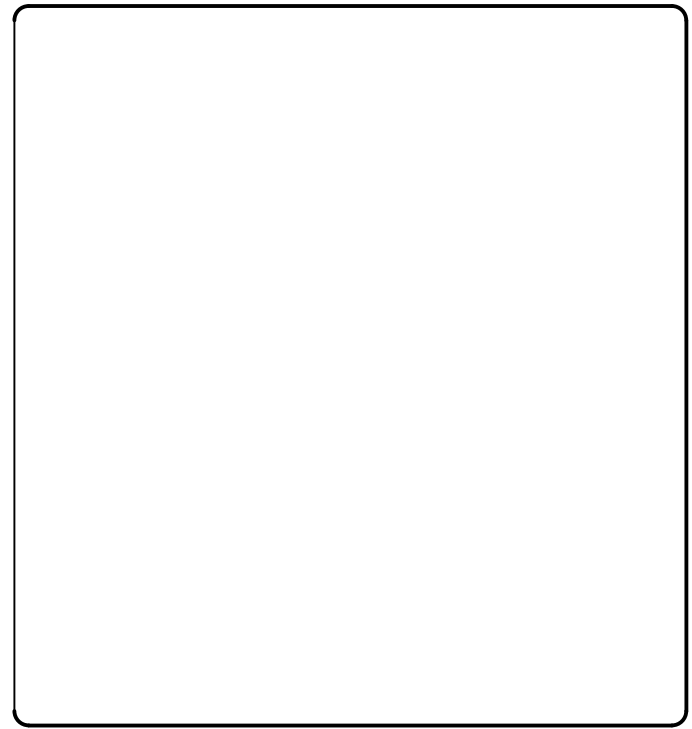
703.1 DOCUMENTATION. Documentation used to show compliance with this code shall include but is not limited to, construction documents, plans, specifications, builder or installer certification, inspection reports, or other methods acceptable to the enforcing agency which demonstrate substantial conformance.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

INSPECTOR SIGNOFF

INSPECTOR SIGNOFF

Revision History

	AS-BUILT
	PRELIMINARY DESIGN
	DESIGN
	PERMIT SET
1	PLAN REVIEW COMMENTS
2	PLAN REVIEW COMMENTS



REMODEL & ADDITION

OWNER:

Drawing By:

Chris Klimen

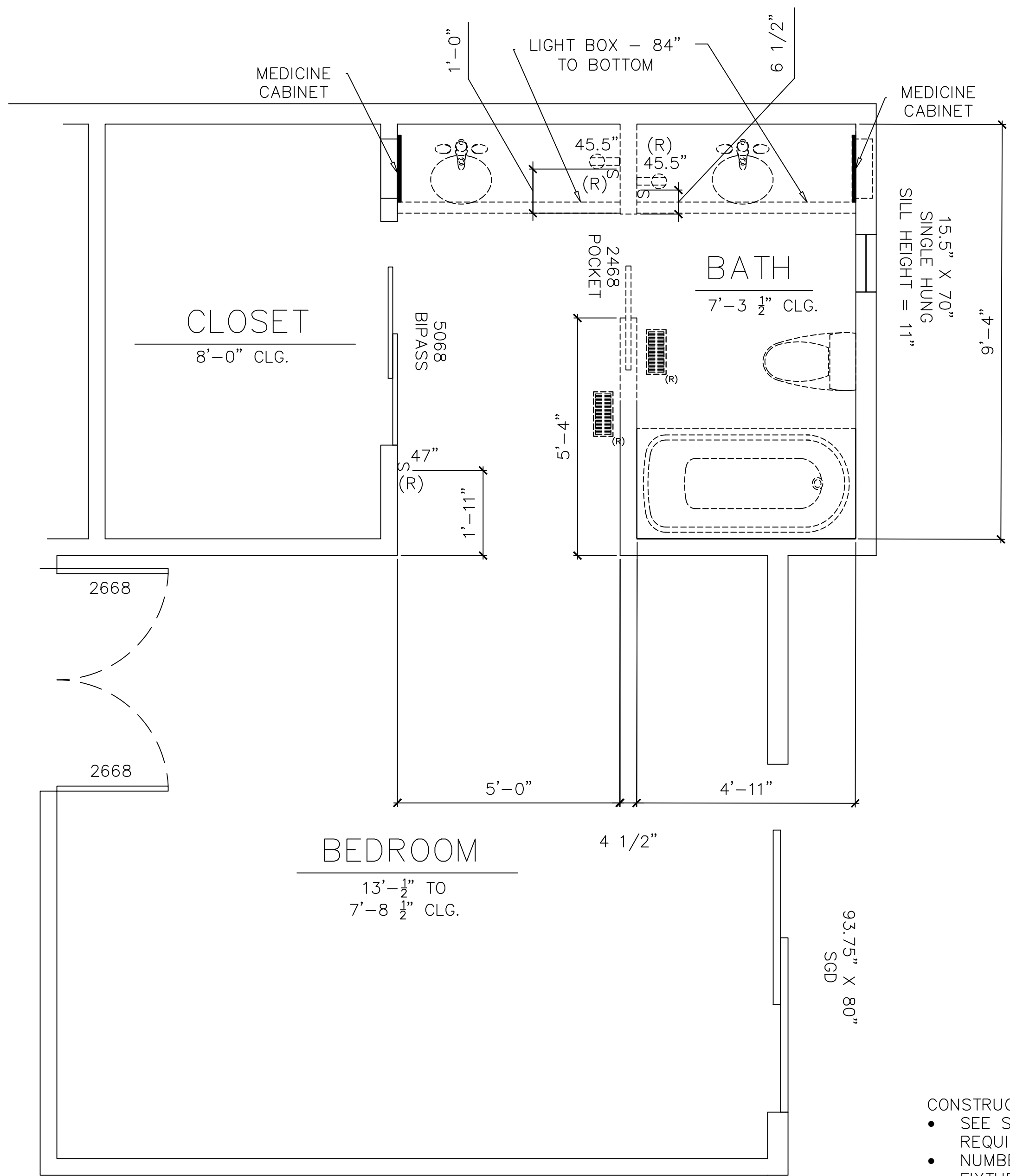
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CAL GREEN REQUIREMENTS PAGE 2

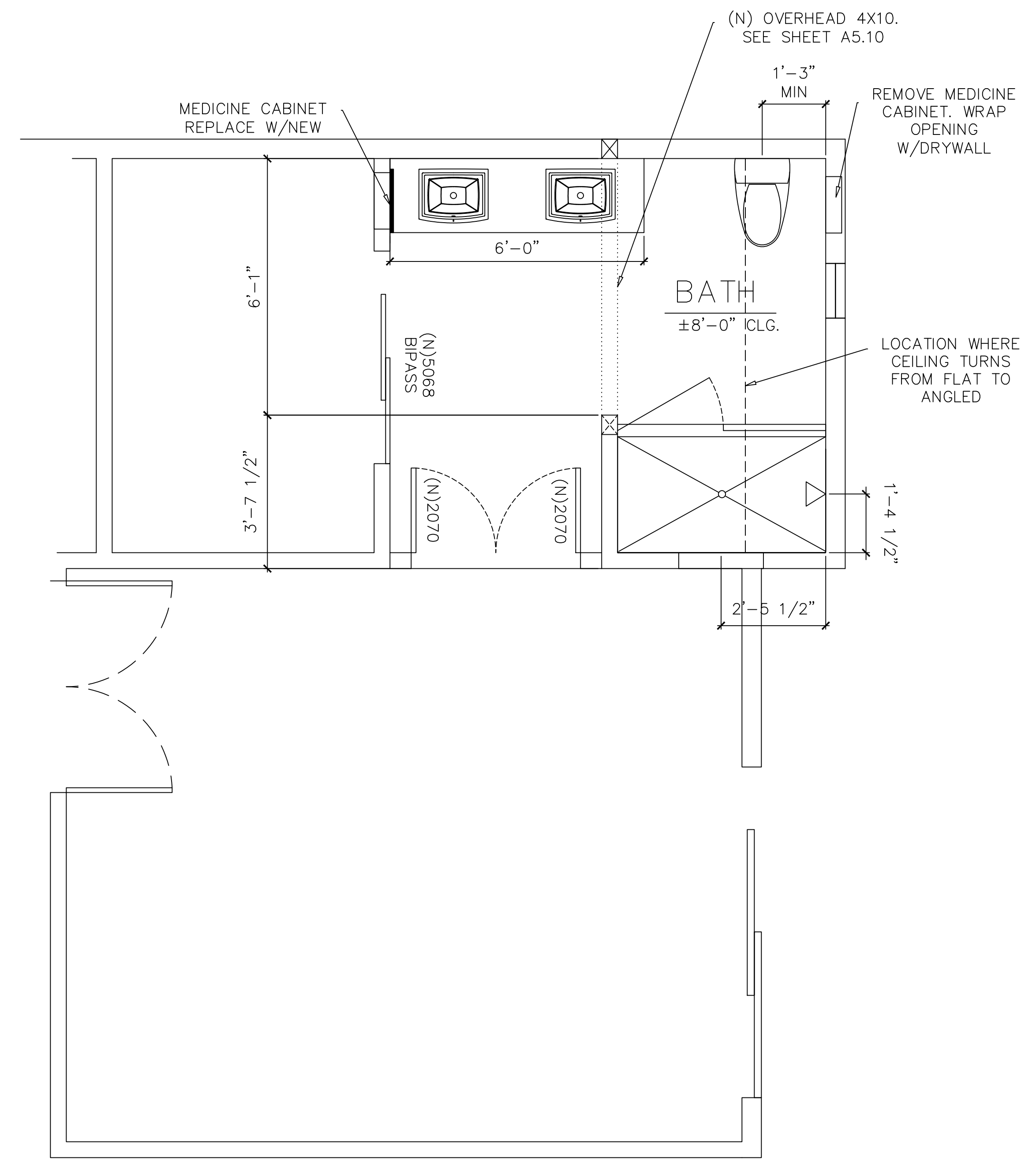
G1.1



(E) FLOOR PLAN & DEMO PLAN

TILE & MATERIALS -
 SHOWER SURROUND (ASSUMES AN 8' CEILING) - 101.5 SQ FT - INCLUDES 10% OVERAGE
 SHOWER PAN - 16 SQ FT - INCLUDES 10% OVERAGE
 BATHROOM FLOOR - 156 SQ FT - INCLUDES 10% OVERAGE (INCLUDES TILE UNDER VANITY & LINEN CABINET)
 BASE: 67 LF - INCLUDES 10% OVERAGE

- CONSTRUCTION NOTES:
- SEE SHEETS G1.0 & G1.1 FOR MANDATORY CAL GREEN REQUIREMENTS
 - NUMBERS NEXT TO ELECTRICAL FIXTURES REPRESENT FIXTURE ELEVATION TO CENTER FROM FLOOR
 - DASHED LINES REPRESENT ITEMS TO BE REMOVED
 - REMOVE VANITIES, BATHTUB, TOILET, LIGHTBOXES, CEILING IN BATHROOM, POCKET DOOR, AND PORTION OF WALL AS INDICATED
 - REMOVE CROWN MOLDING IN BATHROOM AREA
 - REMOVE MEDICINE CABINET IN BATHROOM AND WRAP OPENING WITH DRYWALL
 - REPLACE MEDICINE CABINET IN DRESSING AREA WITH NEW
 - RELOCATE PLUMBING AS NEEDED FOR NEW VANITY, TOILET, & SHOWER LOCATIONS
 - INSTALL SHOWER HEAD @ 7" FROM FINISHED FLOOR, MIXING VALVE @ 48" FROM FINISHED FLOOR AND PER DIMENSIONS SHOWN (CENTERED ON SHOWER)
 - INSTALL NEW 24"W X 14"T SHAMPOO NICHE @ 40" TO BOTTOM FROM FINISHED FLOOR AND PER DIMENSION SHOWN
 - INSTALL NEW FRAMING
 - RELOCATE HVAC REGISTERS AS NEEDED
 - INSTALL NEW VANITY, TOILET, AND SHOWER AS INDICATED
 - INSTALL NEW BACKLIT MIRROR. ROUGH IN ELECTRICAL AS NEEDED
 - RELOCATE GFCI RECEPTACLES AS INDICATED
 - RELOCATE CLOSET SWITCH AS INDICATED
 - INSTALL NEW SWITCHES FOR NEW RECESSED LIGHTING & EXHAUST FAN IN LOCATION SHOWN
 - INSTALL NEW RECESSED LIGHTING AS INDICATED
 - INSTALL NEW CEILING FAN AS INDICATED. FOLLOW CAL GREEN REQUIREMENTS AS FOUND ON SHEET G1.1, SECTION 4.506.1
 - INSTALL NEW TILE FLOORING TO BATHROOM, CLOSET, & DRESSING AREA
 - INSTALL NEW TILE TO SHOWER PAN & SHOWER SURROUND. INSTALL TILE IN SURROUND UP TO CEILING
 - INSTALL NEW DOUBLE-DOORS AS INDICATED
 - INSTALL NEW BIPASS CLOSET DOORS

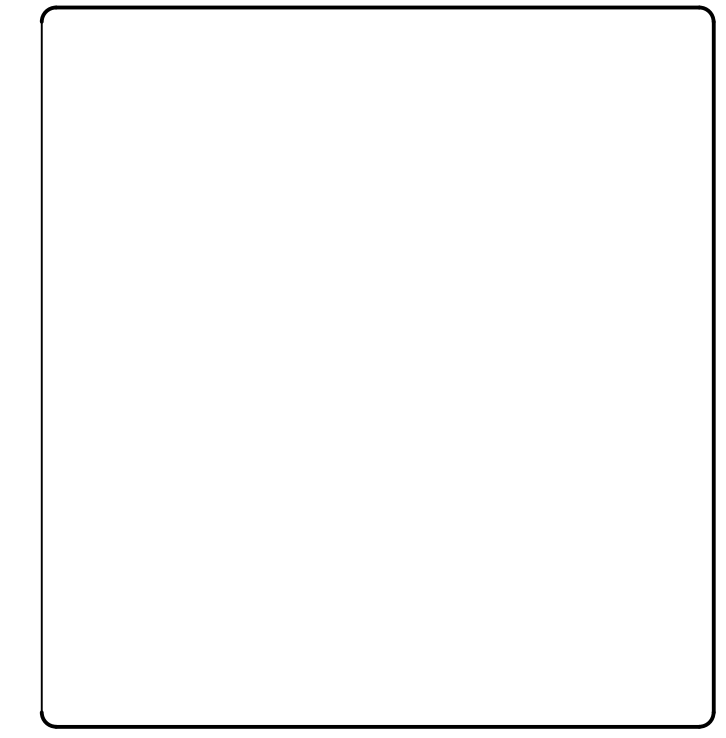


(N) FLOOR PLAN

- 4" LED RECESSED LIGHT
- △ SHOWER HEAD
- (E) = EXISTING
- (N) = NEW
- (R) = RELOCATE
- ⊗ EXHAUST FAN
- ⊙ SURFACE MOUNTED LIGHT FIXTURE

FLOOR PLANS
 SCALE: 1/2" = 1'-0"

Revision History	
	AS-BUILT
	PRELIMINARY DESIGN
	DESIGN
	PERMIT SET
①	PLAN REVIEW COMMENTS
②	PLAN REVIEW COMMENTS



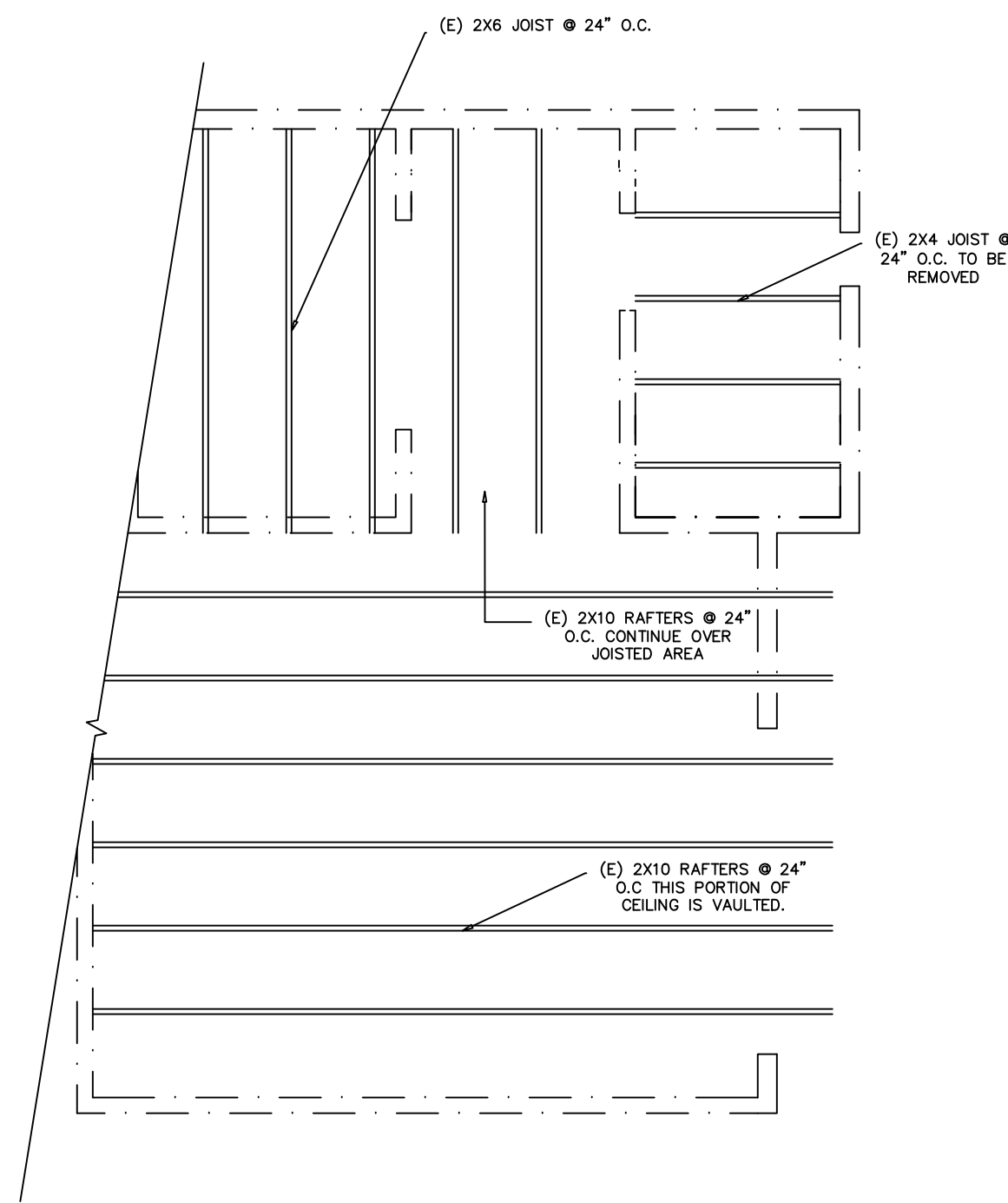
REMODEL & ADDITION	OWNER:
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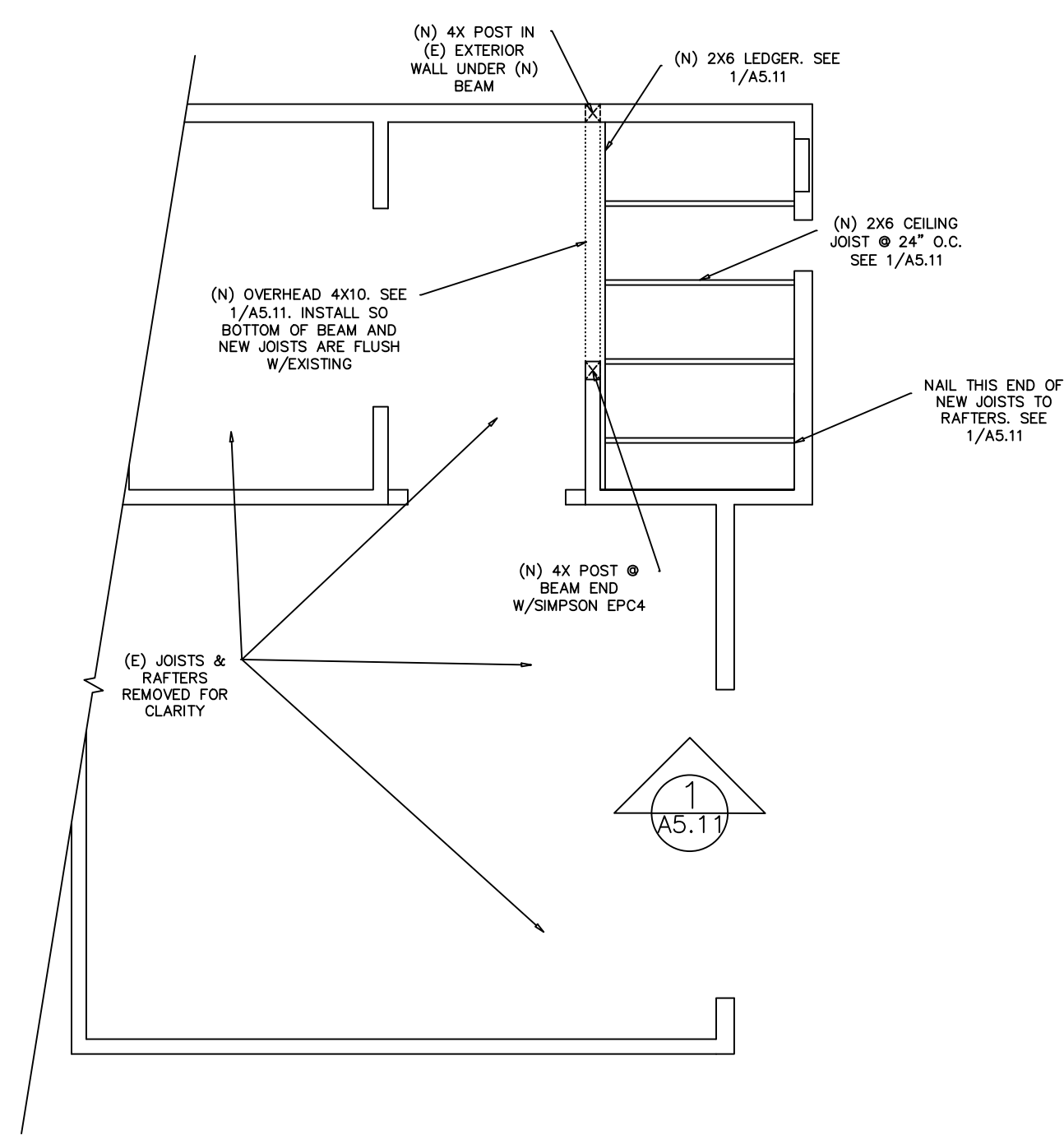
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FLOOR PLANS

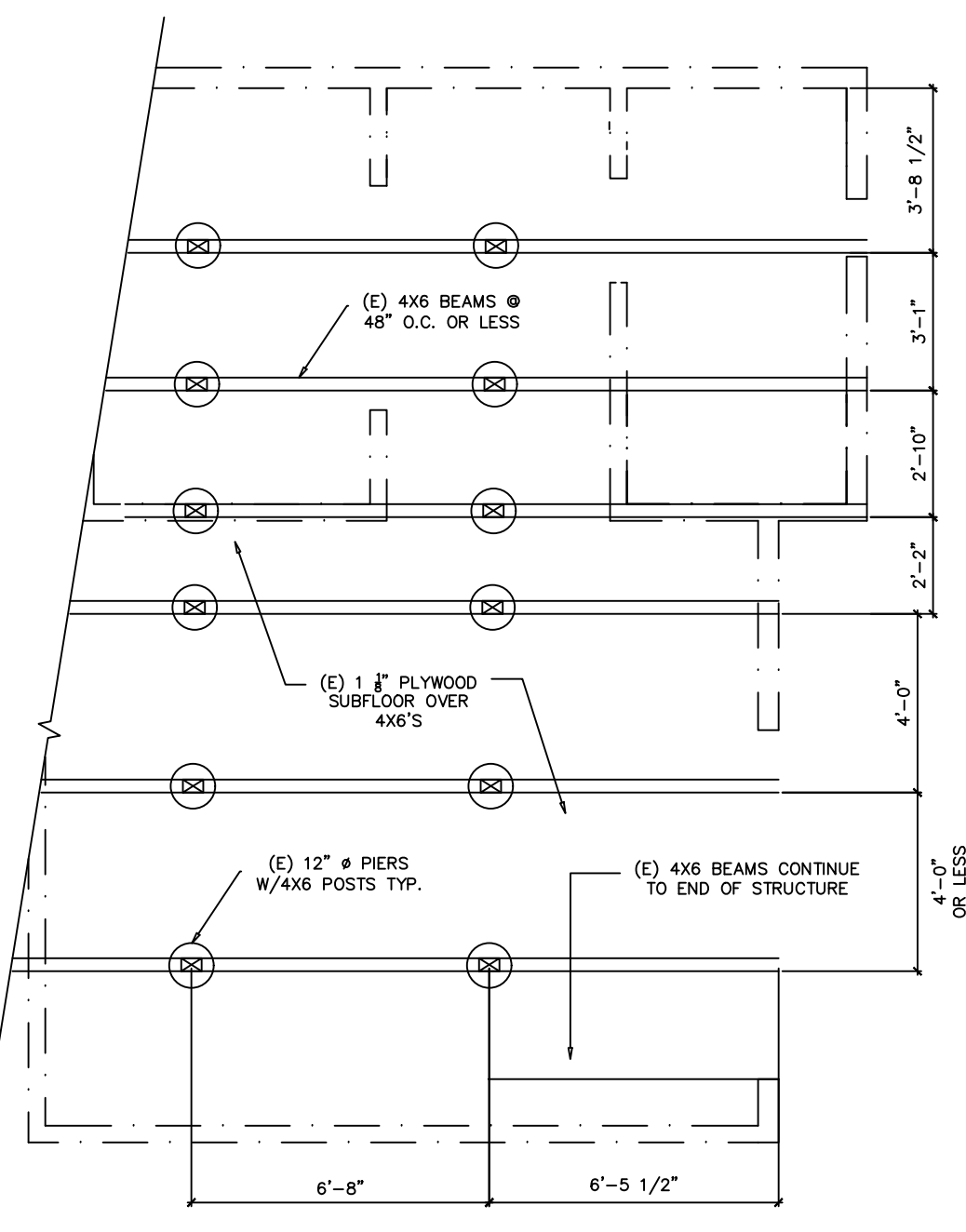
A1.10



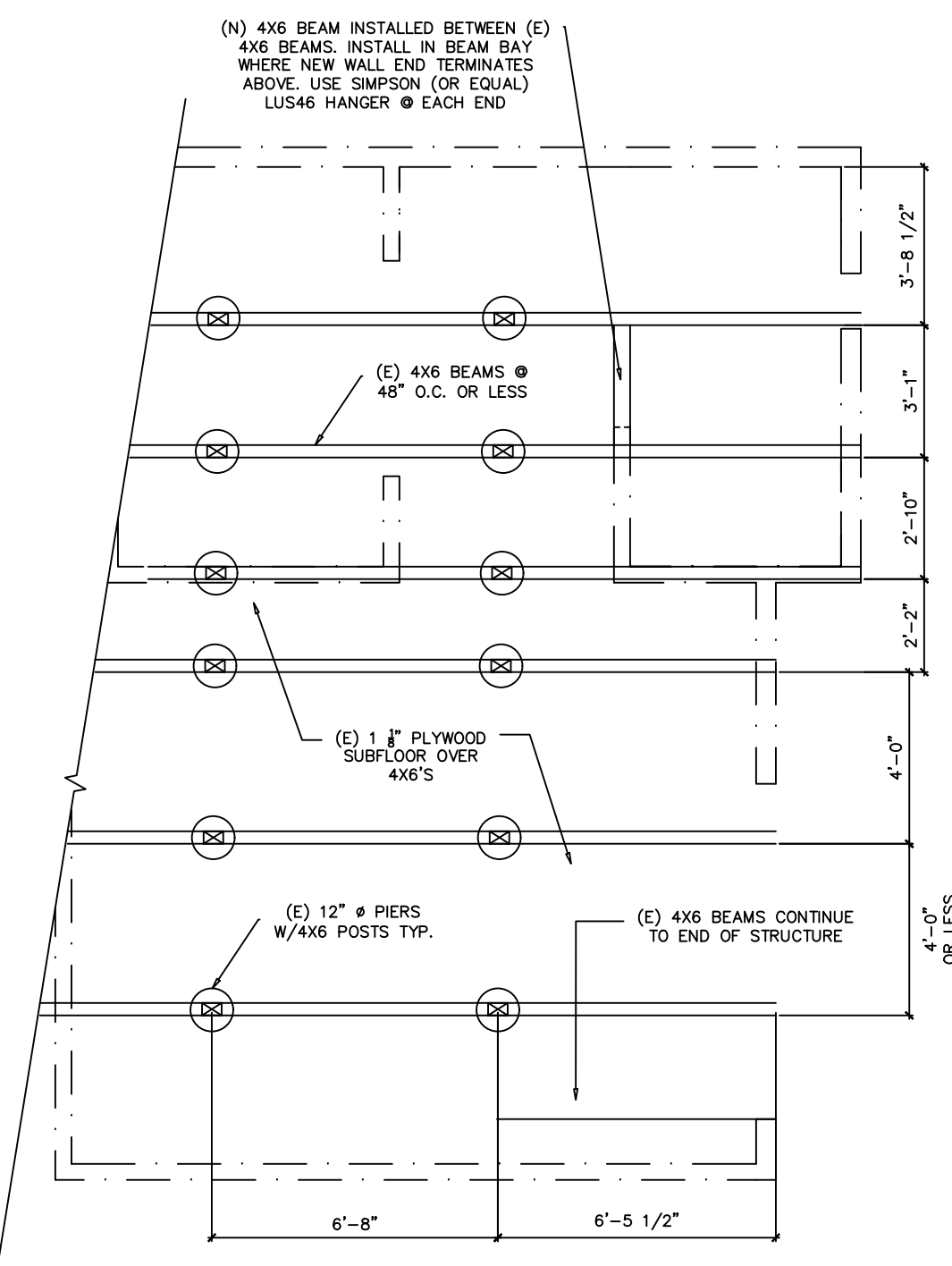
(E) CEILING FRAMING
SCALE: 1/4"=1'-0"



(N) CEILING FRAMING
SCALE: 1/4"=1'-0"



(E) FLOOR FRAMING
SCALE: 1/4"=1'-0"



(N) FLOOR FRAMING
SCALE: 1/4"=1'-0"

2019 CALIFORNIA BUILDING CODE							
TABLE 2304.10.1 FASTENING SCHEDULE							
CONNECTION	FASTENING _{a,m}	LOCATION	CONNECTION	FASTENING _{a,m}	LOCATION		
1. JOIST TO SILL OR GIRDER	3-8d COMMON (2 1/2"x0.131") 3-3"x0.131" NAILS 3-3" 14 GAGE STAPLES	TOENAIL	20. 1" DIAGONAL BRACE TO EACH STUD AND PLATE	2-8d COMMON (2 1/2"x0.131") 2-3"x0.131" NAILS 3-3" 14 GAGE STAPLES	FACE NAIL		
2. BRIDGING TO JOIST	2-8d COMMON (2 1/2"x0.131") 2-3"x0.131" NAILS 2-3" 14 GAGE STAPLES	TOENAIL EACH END	21. 1"x8" SHEATHING TO EACH BEARING	3-8d COMMON (2 1/2"x0.131")	FACE NAIL		
3. 1"x6" SUBFLOOR OR LESS TO EACH JOIST	2-8d COMMON (2 1/2"x0.131")	FACE NAIL	22. WIDER THAN 1"x8" SHEATHING TO EACH BEARING	3-8d COMMON (2 1/2"x0.131")	FACE NAIL		
4. WIDER THAN 1"x6" SUBFLOOR TO EA. JOIST	3-8d COMMON (2 1/2"x0.131")	FACE NAIL	23. BUILT-UP CORNER STUDS	16d COMMON (3 1/2"x0.162") 3"x0.131" NAILS 3" 14 GAGE STAPLES	24" O.C. 16" O.C. 16" O.C.		
5. 2" SUBFLOOR TO JOIST OR GIRDER	2-16d COMMON (3 1/2"x0.162")	BLIND AND FACE NAIL	24. BUILT-UP GIRDER AND BEAMS	20d COMMON (4"x0.192") 32" O.C. 3"x0.131" NAIL AT 24" O.C. 3" 14 GAGE STAPLE AT 24" O.C.	FACE NAIL AT 16d STAGGERED ON OPPOSITE SIDES		
6. SOLE PLATE TO JOIST OR BLOCKING	16d (3 1/2"x0.135") AT 16" O.C. 3"x0.131" NAILS AT 8" O.C. 3" 14 GAGE STAPLES AT 12" O.C.	TYPICAL FACE NAIL	25. 2" PLANKS	16d COMMON (3 1/2"x0.162")	FACE NAIL AT ENDS AND AT EACH SPLICE		
SOLE PLATE TO JOIST OR BLOCKING AT BRACED WALL PANEL	3"-16d (3 1/2"x0.135") AT 16" O.C. 4-3"x0.131" NAILS AT 16" O.C. 4-3" 14 GAGE STAPLES AT 16" O.C.	BRACED WALL PANELS			AT EACH BEARING		
7. TOP PLATE TO STUD	2-16d COMMON (3 1/2"x0.162") 3"x0.131" NAILS 3-3" 14 GAGE STAPLES	END NAIL	26. COLLAR TIE TO RAFTER	3-10d COMMON (3"x0.148") 4-3"x0.131" NAILS 4-3" 14 GAGE STAPLES	FACE NAIL		
8. STUD TO SOLE PLATE	4-8d COMMON (2 1/2"x0.131") 4-3"x0.131" NAILS 3-3" 14 GAGE STAPLES	TOENAIL	27. JACK RAFTER TO HIP	3-10d COMMON (3"x0.148") 4-3"x0.131" NAILS 4-3" 14 GAGE STAPLES	TOENAIL		
	2-16d COMMON (3 1/2"x0.162") 3-3"x0.131" 3-3" 14 GAGE STAPLES	END NAIL			FACE NAIL		
9. DOUBLE STUDS	16d (3 1/2"x0.135") AT 24" O.C. 3"x0.131" NAIL AT 8" O.C. 3" 14 GAGE STAPLE AT 8" O.C.	FACE NAIL	28. ROOF RAFTER TO 2-BY RIDGE BEAM	2-16d COMMON (3 1/2"x0.162") 3-3"x0.131" NAILS 3-3" 14 GAGE STAPLES	TOENAIL		
10. DOUBLE TOP PLATES	16d (3 1/2"x0.135") AT 16" O.C. 3"x0.131" NAIL AT 12" O.C. 3" 14 GAGE STAPLE AT 12" O.C.	TYPICAL FACE NAIL	29. JOIST TO BAND JOIST	3-16d COMMON (3 1/2"x0.162") 4-3"x0.131" NAILS 4-3" 14 GAGE STAPLES	FACE NAIL		
DOUBLE TOP PLATES	8-16d COMMON (3 1/2"x0.162") 12-3"x0.131" NAILS 12-3" 14 GAGE STAPLES	LAP SPLICE PER SIDE			FACE NAIL		
11. BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE	3-8d COMMON (2 1/2"x0.131") 3-3"x0.131" NAILS 3-3" 14 GAGE STAPLES	TOENAIL	30. LEDGER STRIP	3-16d COMMON (3 1/2"x0.162") 4-3"x0.131" NAILS 4-3" 14 GAGE STAPLES	FACE NAIL		
12. RIM JOIST TO TOP PLATE	8d (2 1/2"x0.131") AT 6" O.C. 3"x0.131" NAIL AT 6" O.C. 3" 14 GAGE STAPLE AT 6" O.C.	TOENAIL	31. WOOD STRUCTURAL PANELS AND PARTICLEBOARD _b SUBFLOOR, ROOF AND WALL SHEATHING (TO FRAMING)	1/2" AND LESS 6d _d 2 3/8"x0.113" NAIL _e 1 3/4" 16 GAGE _e			
13. TOP PLATES, LAPS AND INTERSECTIONS	2-16d COMMON (3 1/2"x0.162") 3-3"x0.131" NAILS 3-3" 14 GAGE STAPLES	FACE NAIL				1 3/8" TO 3/4"	8d _d OR 6d _e 2 3/8"x0.113" NAIL _e 2" 16 GAGE _e
14. CONTINUOUS HEADER, TWO PIECES	16d COMMON (3 1/2"x0.162")	16" O.C. ALONG EDGE				3/8" TO 1" 1 1/8" TO 1 1/4"	8d _e 10d _e OR 8d _e
15. CEILING JOISTS TO PLATE	3-8d COMMON (2 1/2"x0.131") 5-3"x0.131" NAILS 5-3" 14 GAGE STAPLES	TOENAIL	32. PANEL SIDING (TO FRAMING)	1/2" OR LESS 6d _d 8d _d			
16. CONTINUOUS HEADER TO STUD	4-8d COMMON (2 1/2"x0.131")	TOENAIL				33. FIBERBOARD SHEATHING _g	1/2"
17. CEILING JOISTS, LAPS OVER PARTITIONS (SEE SECTION 2308.10.4.1, TABLE 2308.10.4.1)	3-16d COMMON (3 1/2"x0.162") MINIMUM, TABLE 2308.10.4.1 4-3"x0.131" NAILS 4-3" 14 GAGE STAPLES	FACE NAIL	3/8" AND LESS 3/8" TO 1" 1 1/8" TO 1 1/4"	8d _e 10d _e OR 8d _e			
18. CEILING JOISTS TO PARALLEL RAFTERS (SEE SECTION 2308.10.4.1, TABLE 2308.10.4.1)	3-16d COMMON (3 1/2"x0.162") MINIMUM, TABLE 2308.10.4.1 4-3"x0.131" NAILS 4-3" 14 GAGE STAPLES	FACE NAIL	34. INTERIOR PANELING	1/2" 3/8"	4d _i 6d _i		
19. RAFTERS TO PLATE (SEE SECTION 2308.10.1, TABLE 2308.10.1)	3-8d COMMON (2 1/2"x0.131") 3-3"x0.131" NAILS 3-3" 14 GAGE STAPLES	TOENAIL					

Revision History	
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▲	PLAN REVIEW COMMENTS

REMODEL & ADDITION

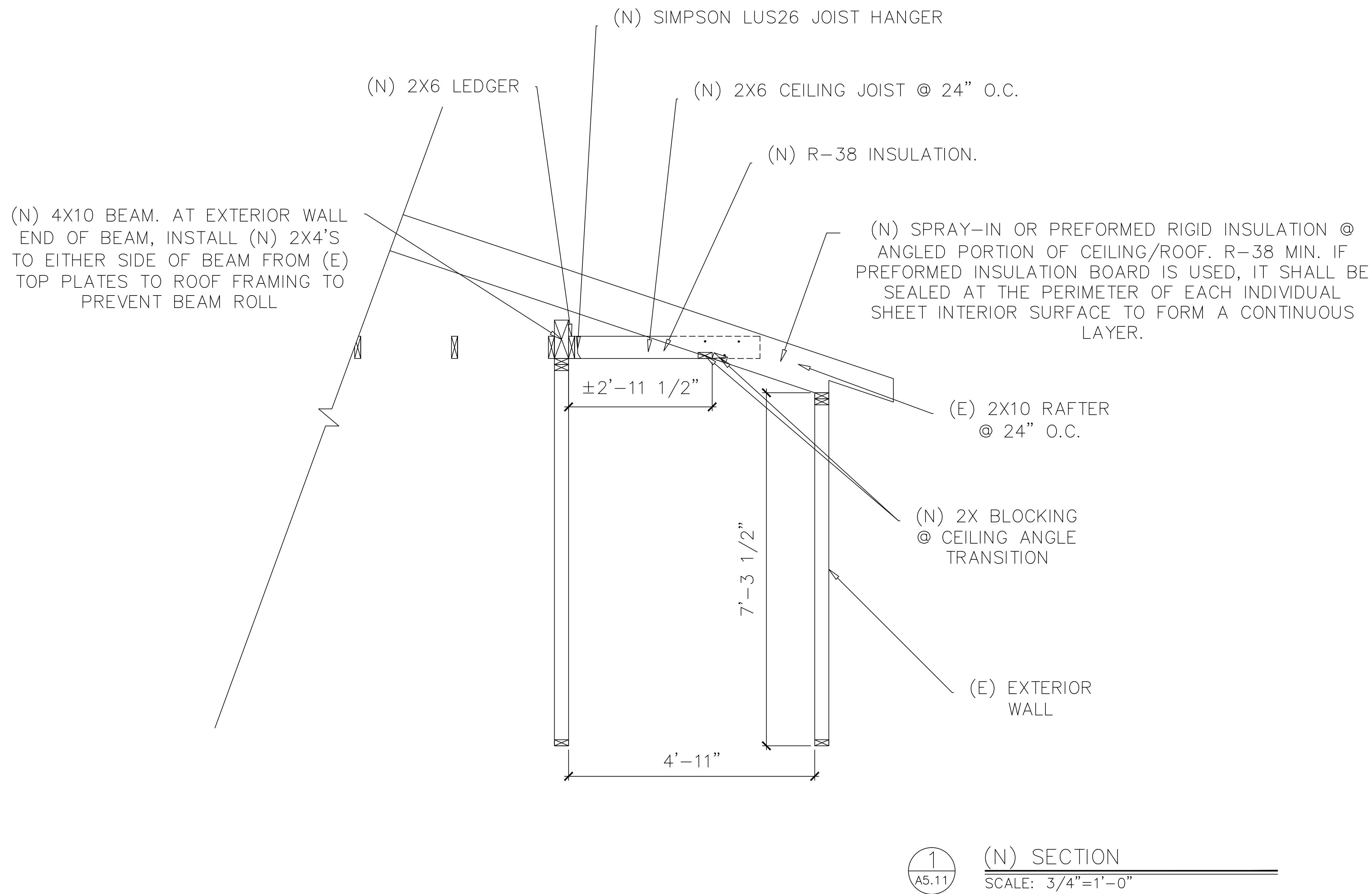
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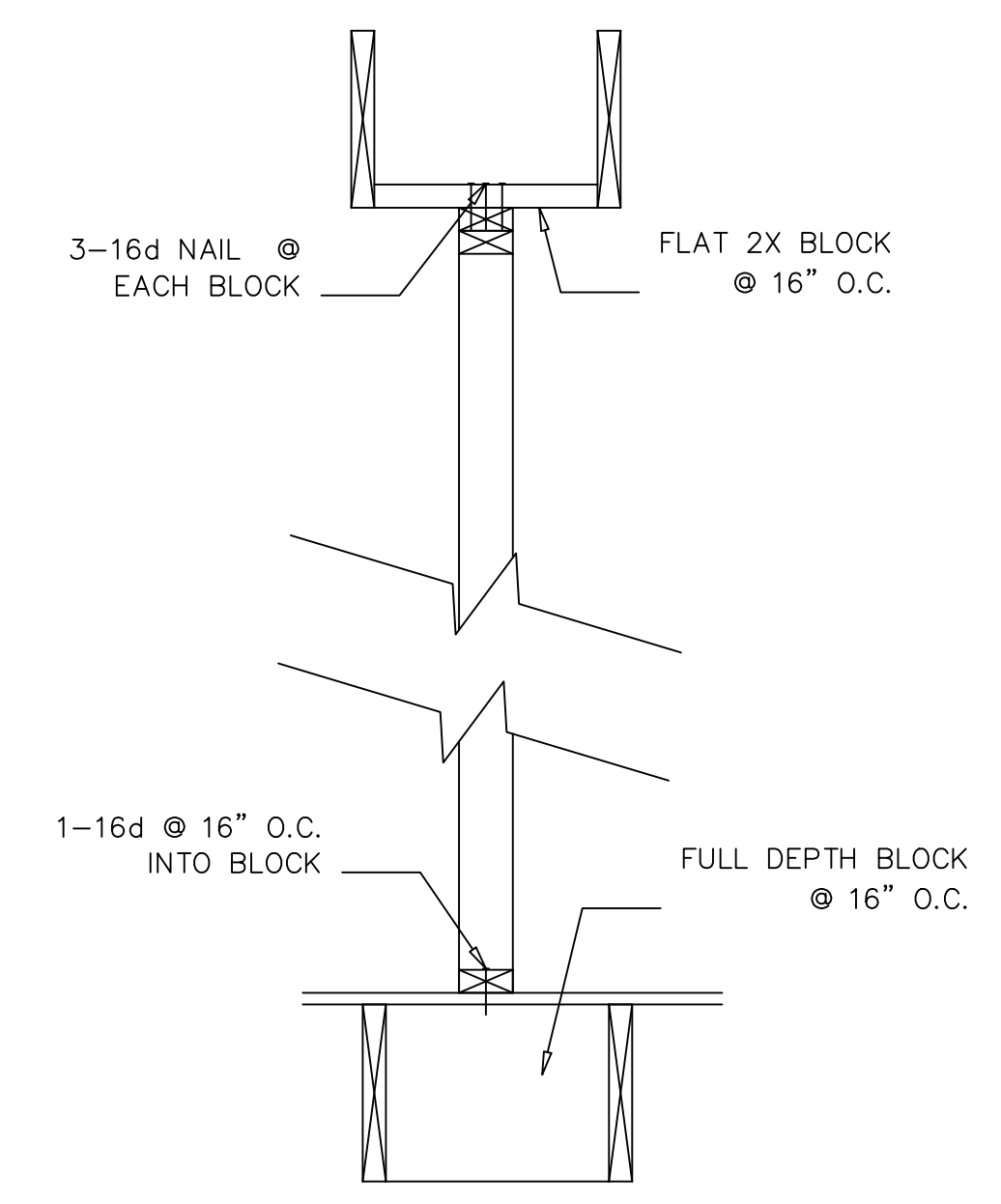
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DETAILS

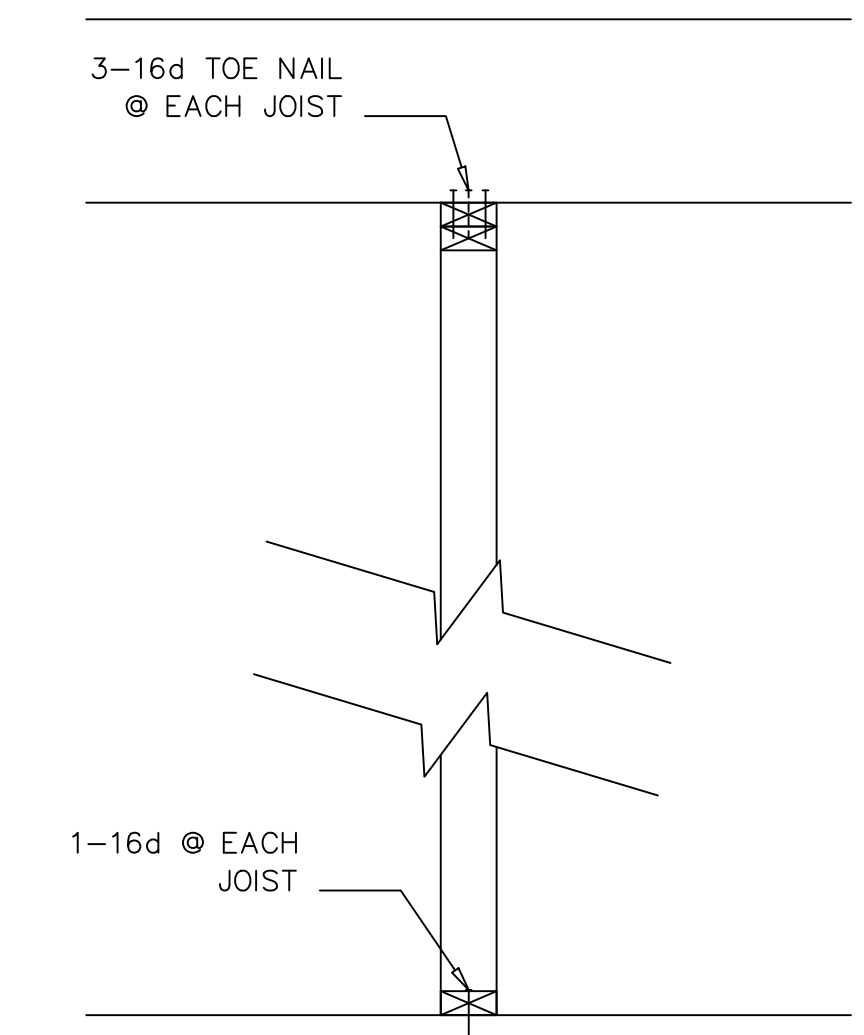
A5.10



1 (N) SECTION
SCALE: 3/4"=1'-0"



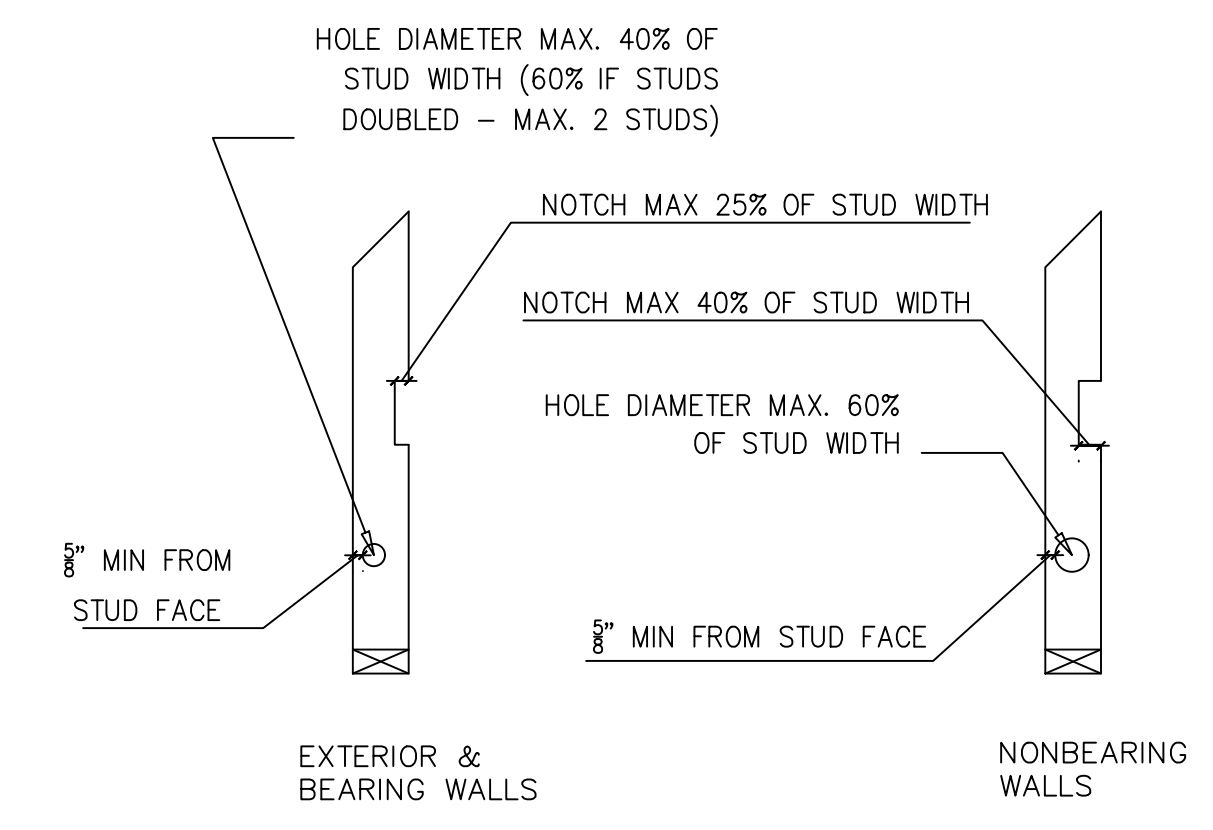
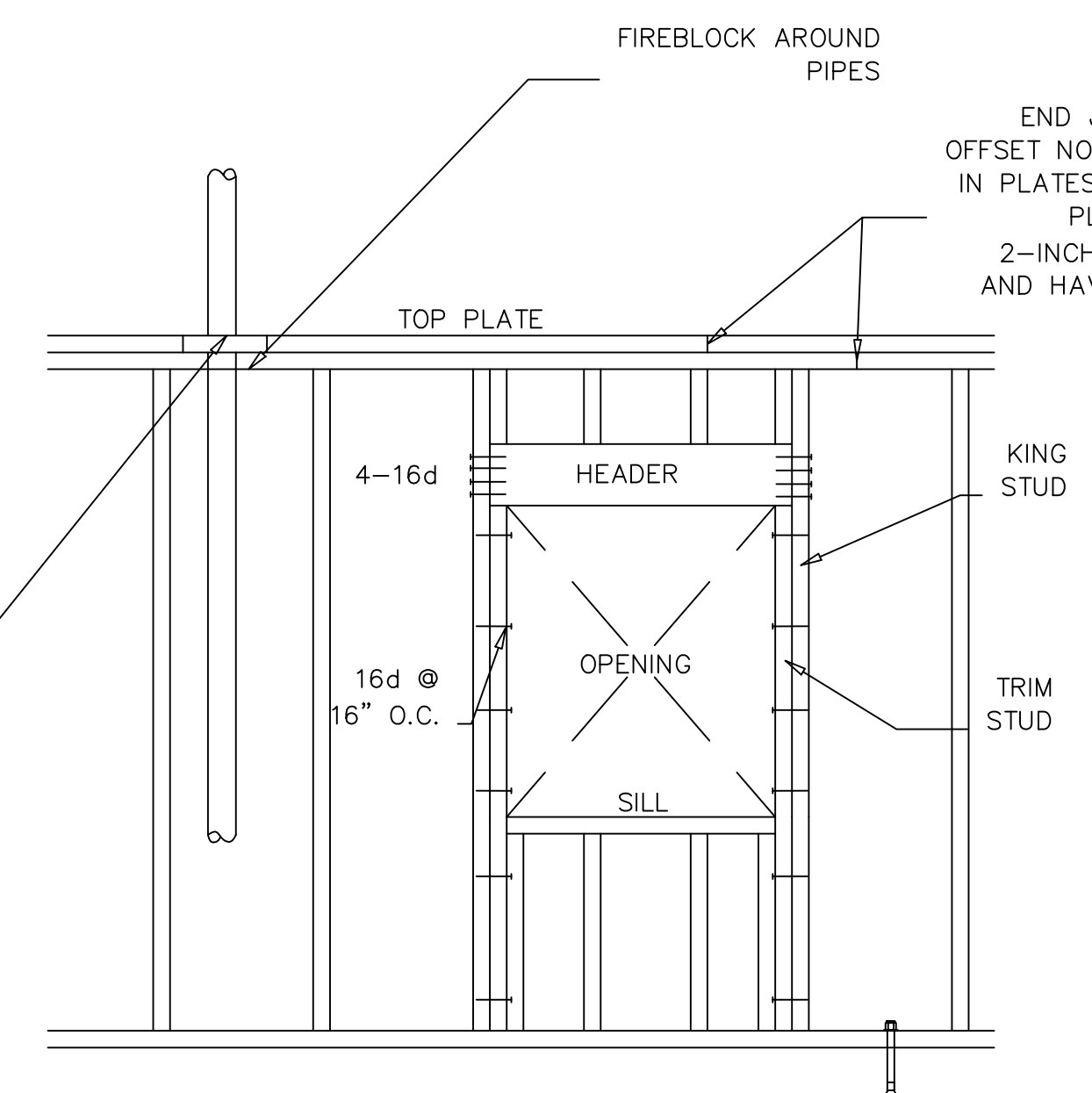
WALL FRAMING PARALLEL TO JOIST



WALL FRAMING PERPENDICULAR TO JOIST

WHEN PIPING OR DUCTWORK IS PLACED IN OR PARTLY IN AN EXTERIOR WALL OR INTERIOR LOAD-BEARING WALL, NECESSITATING CUTTING, DRILLING OR NOTCHING OF THE TOP PLATE BY MORE THAN 50 PERCENT OF ITS WIDTH, A GALVANIZED METAL TIE NOT LESS THAN 0.054 INCH THICK (16 GA) AND 1 1/2 INCHES WIDE SHALL BE FASTENED ACROSS AND TO THE PLATE AT EACH SIDE OF THE OPENING WITH NOT LESS THAN EIGHT 10D (0.148 INCH DIAMETER) NAILS HAVING A MINIMUM LENGTH OF 1 1/2 INCHES AT EACH SIDE OR EQUIVALENT. THE METAL TIE MUST EXTEND A MINIMUM OF 6 INCHES PAST THE OPENING.

EXCEPTION: WHEN THE ENTIRE SIDE OF THE WALL WITH THE NOTCH OR CUT IS COVERED BY WOOD STRUCTURAL PANEL SHEATHING.



BORING & NOTCHING OF STUDS

Revision History	
	AS-BUILT
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	DESIGN
	PERMIT SET
▲	PLAN REVIEW COMMENTS
▲	PLAN REVIEW COMMENTS

REMODEL & ADDITION

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EMAIL: KLIMEN@ATT.NET DATE: 00/00/00

DETAILS

2 FRAMING DETAILS
A5.11 NOT TO SCALE

A5.11

ELECTRICAL NOTES:

- SEE SHEETS G1.0 & G1.1 FOR MANDATORY CAL GREEN REQUIREMENTS
- NUMBERS NEXT TO ELECTRICAL FIXTURES REPRESENT FIXTURE ELEVATION TO CENTER FROM FLOOR
- INSTALL NEW BACKLIT MIRROR. ROUGH IN ELECTRICAL AS NEEDED
- RELOCATE GFCI RECEPTACLES AS INDICATED
- RELOCATE CLOSET SWITCH AS INDICATED
- INSTALL NEW SWITCHES FOR NEW RECESSED LIGHTING & EXHAUST FAN IN LOCATION SHOWN
- INSTALL NEW RECESSED LIGHTING AS INDICATED
- INSTALL NEW CEILING FAN AS INDICATED. FOLLOW CAL GREEN REQUIREMENTS AS FOUND ON SHEET G1.1, SECTION 4.506.1

○ 4" LED RECESSED LIGHT

△ SHOWER HEAD

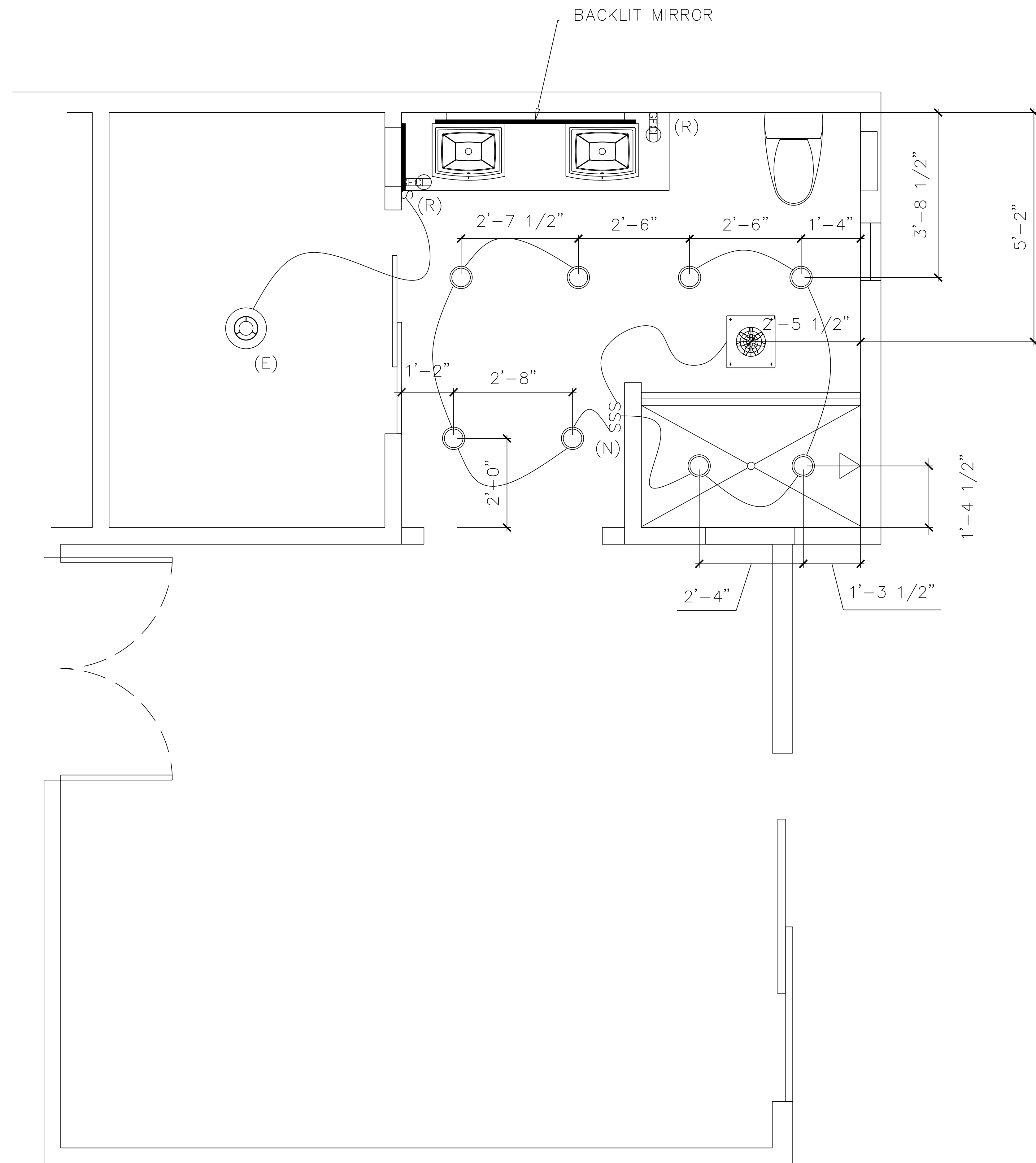
(E) = EXISTING

(N) = NEW

(R) = RELOCATE

⊞ EXHAUST FAN

⊙ SURFACE MOUNTED LIGHT FIXTURE



Revision History

	AS-BUILT
	PRELIMINARY DESIGN
	DESIGN
	PERMIT SET
①	PLAN REVIEW COMMENTS
②	PLAN REVIEW COMMENTS

REMODEL & ADDITION

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**ELECTRICAL
PLAN**

(N) ELECTRICAL PLAN

SCALE: 3/4"=1'-0"

E1.10