

TYPE V SHEET FOR ONE-STORY RESIDENTIAL CONVENTIONAL LIGHT-FRAME WOOD CONSTRUCTION

THE PURPOSE OF THIS SHEET IS TO ASSIST OWNERS, BUILDERS AND OTHERS TO MEET THE GENERAL REQUIREMENTS AND SPECIFICATIONS PRESCRIBED IN SECTION 2308 OF THE CALIFORNIA BUILDING CODE (CBC) FOR A ONE-STORY BUILDING OR STRUCTURE OF CONVENTIONAL LIGHT-FRAME WOOD CONSTRUCTION. WHEN PORTIONS OF A BUILDING OR STRUCTURE OF OTHERWISE CONVENTIONAL CONSTRUCTION EXCEED THE LIMITS OF THIS SHEET, SECTION 2308 OF THE CBC OR OTHER LOCAL ORDINANCES, THESE PORTIONS AND THE SUPPORTING LOAD PATH SHALL BE DESIGNED BY A REGISTERED DESIGN PROFESSIONAL LICENSED IN THE STATE OF CALIFORNIA. THIS SHEET IS FOR INFORMATION AND REFERENCE ONLY AND IS NOT A SUBSTITUTE FOR ACCURATE CONSTRUCTION DOCUMENTS (I.E. DRAWING OR PLAN) PREPARED FOR EACH PROPOSED CONSTRUCTION PROJECT.

DRAWING SUBMITTAL REQUIREMENTS FOR ROOM ADDITIONS:

ALL PLANS FOR ROOM ADDITIONS SUBMITTED FOR PLAN CHECK SHALL BE LEGIBLE AND DRAWN IN BLACK INK. PLANS SHALL BE DRAWN ON PAPER A MINIMUM OF 18"x24" IN SIZE. THREE (3) COMPLETE SETS OF PLANS WILL BE REQUIRED FOR PLAN CHECK. EACH SHEET SHALL HAVE THE ADDRESS OF PROPOSED WORK, AND NAME & TELEPHONE NUMBER OF PROPERTY OWNER. ALL DRAWINGS MUST BE TO A COMMON SCALE. COMPLETENESS AND CLARITY OF THE DRAWINGS IS ESSENTIAL TO AVOID DELAYS IN THE ISSUANCE OF A PERMIT. PLANS SHALL INCLUDE THE FOLLOWING:

PLOT PLAN:

EACH PLOT PLAN SHALL CONTAIN THE FOLLOWING INFORMATION:

- PROPERTY OWNER'S NAME, ASSESSOR'S PARCEL NUMBER (APN) AND STREET ADDRESS
- NORTH ARROW DESIGNATION, PLAN SCALE: 1/8" = 1'-0", PROPERTY LINE DIMENSIONS
- STREETS, APPROACHES, DRIVEWAYS, SIDEWALKS, ALLEYS, EASEMENTS
- DIMENSION ALL BUILDINGS AND STRUCTURES (LABEL THEM AS EXISTING OR PROPOSED), INDICATE SETBACK DISTANCES
- LOCATION OF TOP OF SLOPE AND/OR BOTTOM OF SLOPE, INDICATE SLOPE SETBACK DISTANCES
- ACCESSORY STRUCTURES, DECKS, PATIO COVERS, POOLS, SPAS, RETAINING WALLS, FENCES, ETC.
- LOCATION AND SIZE OF EXISTING ELECTRIC SERVICE PANEL
- LOCATION OF EXISTING OVERHEAD ELECTRIC SERVICE CONDUCTORS (IF NONE, INDICATE NO OVERHEAD CONDUCTORS)

FLOOR PLAN:

EACH FLOOR PLAN SHALL CONTAIN THE FOLLOWING INFORMATION:

- PLAN SCALE: 1/4" = 1'-0"
- INTERIOR DIMENSION OF PROPOSED STRUCTURES AND ALL EXISTING ADJOINING ROOMS, SPECIFY USE OF ROOMS/AREAS
- LOCATION AND SIZE OF NEW AND EXISTING WINDOWS & DOORS
- LOCATION AND DESCRIPTION OF BRACED WALL PANELS
- LOCATION OF ELECTRICAL OUTLETS, SWITCHES, SMOKE DETECTORS, PLUMBING FIXTURES, HEATING & COOLING APPLIANCES

ROOF PLAN:

EACH ROOF PLAN SHALL CONTAIN THE FOLLOWING INFORMATION:

- PLAN SCALE: 1/4" = 1'-0"
- TYPE OF ROOFING MATERIAL TO BE INSTALLED, SLOPE OF ROOF PITCH
- LOCATION AND SIZE OF ROOF & EAVE VENTS
- LOCATION OF SKYLIGHTS (INDICATE IF OPENABLE)
- SIZE AND DIRECTION OF ROOF RAFTERS AND CEILING JOISTS, HEADER BEAM SIZES

ELEVATION VIEWS:

EACH ELEVATION VIEW SHALL CONTAIN THE FOLLOWING INFORMATION:

- PLAN SCALE: 1/4" = 1'-0"
- FRONT, REAR, SIDES, FINISHED SLOPES, AVERAGE GRADE, FINISHED FLOOR AND ROOF ELEVATIONS
- ROOF OVERHANGS, DECKS, PATIO COVERS, CHIMNEYS, EXTERIOR WALL FINISH, ROOFING MATERIAL
- LOCATION OF WINDOWS, DOORS, SKYLIGHTS, ETC.
- DIMENSION SHOWING HEIGHT FROM AVERAGE GRADE TO HIGHEST POINT OF STRUCTURE
- LOCATION OF ROOF & EAVE VENTS
- WINDOW SILL HEIGHT OF ANY SLEEPING ROOMS

CROSS SECTION:

EACH CROSS SECTION VIEW SHALL CONTAIN THE FOLLOWING INFORMATION:

- PLAN SCALE: 1/4" = 1'-0"
- FOOTING SIZE & DEPTH, FLOORING, BOTTOM PLATE AND ANCHORAGE
- WALL FRAMING SIZE & SPACING, INSULATION R-VALUE
- ROOF AND CEILING FRAMING, ROOF SHEATHING, ROOFING MATERIAL, ROOF PITCH, INSULATION R-VALUE
- SECTION THROUGH THE EXISTING STRUCTURE MAY BE REQUIRED TO DETAIL RELATIONSHIP WITH ATTACHMENT TO THE EXISTING STRUCTURE

FOUNDATION PLAN:

EACH FOUNDATION PLAN SHALL CONTAIN THE FOLLOWING INFORMATION:

- PLAN SCALE: 1/4" = 1'-0"
- CONTINUOUS FOOTINGS WITH LENGTH OF EACH SEGMENT
- ATTACHMENT OF NEW FOUNDATION TO THE EXISTING FOUNDATION
- FOUNDATIONS FOR ALL BEARING WALLS & BRACED WALLS

TITLE 24 ENERGY DOCUMENTATION:

THE PLANS SHALL CONTAIN THE FOLLOWING DEMONSTRATING COMPLIANCE WITH CALIFORNIA ENERGY STANDARDS:

- SUBMIT ENERGY CALCULATIONS FOR ALL NEW CONSTRUCTION AND ADDITIONS
- INCORPORATE COMPLIANCE FORMS CF-1R AND MF-1R INTO PLANS
- DESIGNER OR OWNER AND DOCUMENTATION AUTHOR SHALL WET SIGN COMPLIANCE FORMS

OTHER REQUIREMENTS:

ADDITIONAL INFORMATION MAY BE REQUIRED BY OTHER CITY OR COUNTY AGENCIES IN ORDER TO CONVEY NEEDED INFORMATION RELATIVE TO THE CONSTRUCTION OF YOUR PROJECT. PLEASE FEEL FREE TO CONTACT A BUILDING AND SAFETY PLAN CHECK ENGINEER AT (805) 583-6723 FOR ADDITIONAL ASSISTANCE WITH YOUR PROJECT HERE IN THE CITY OF SIMI VALLEY.

PROJECT DATA:

PROJECT ADDRESS: _____

OWNER'S NAME: _____

CONTACT PHONE NUMBER: _____

ASSESSOR'S PARCEL NUMBER (APN): _____

STORIES: _____

HEIGHT: _____

TYPE OF CONSTRUCTION: _____

OCCUPANCY GROUP: _____

BUILDING FLOOR AREA:

RESIDENCE:
 EXISTING FLOOR AREA: _____ SQ. FT.

FLOOR AREA OF ADDITION: _____ SQ. FT.

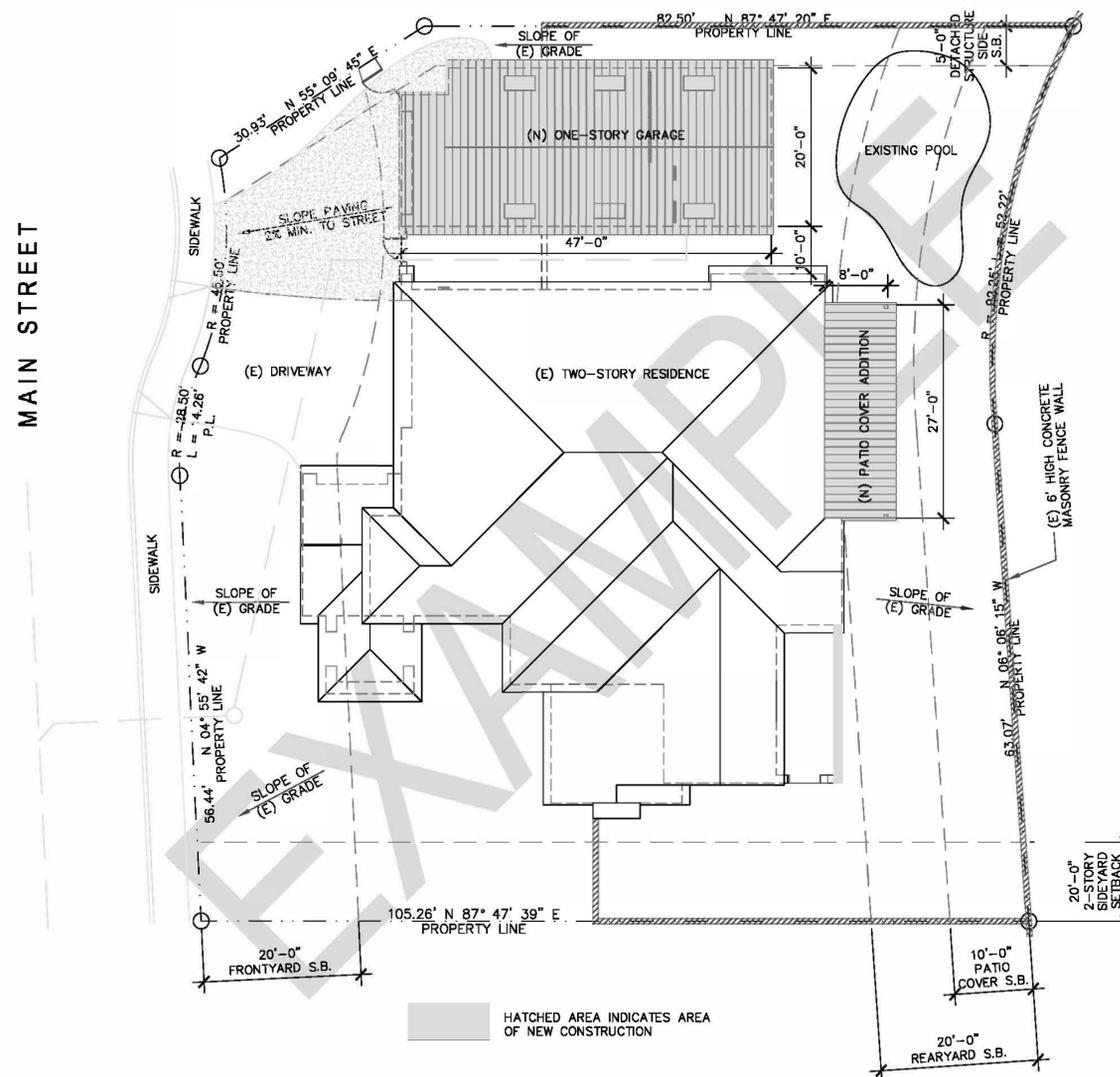
TOTAL FLOOR AREA: _____ SQ. FT.

GARAGE:
 EXISTING FLOOR AREA: _____ SQ. FT.

FLOOR AREA OF ADDITION: _____ SQ. FT.

TOTAL FLOOR AREA: _____ SQ. FT.

TOTAL BUILDING FLOOR AREA: _____ SQ. FT.

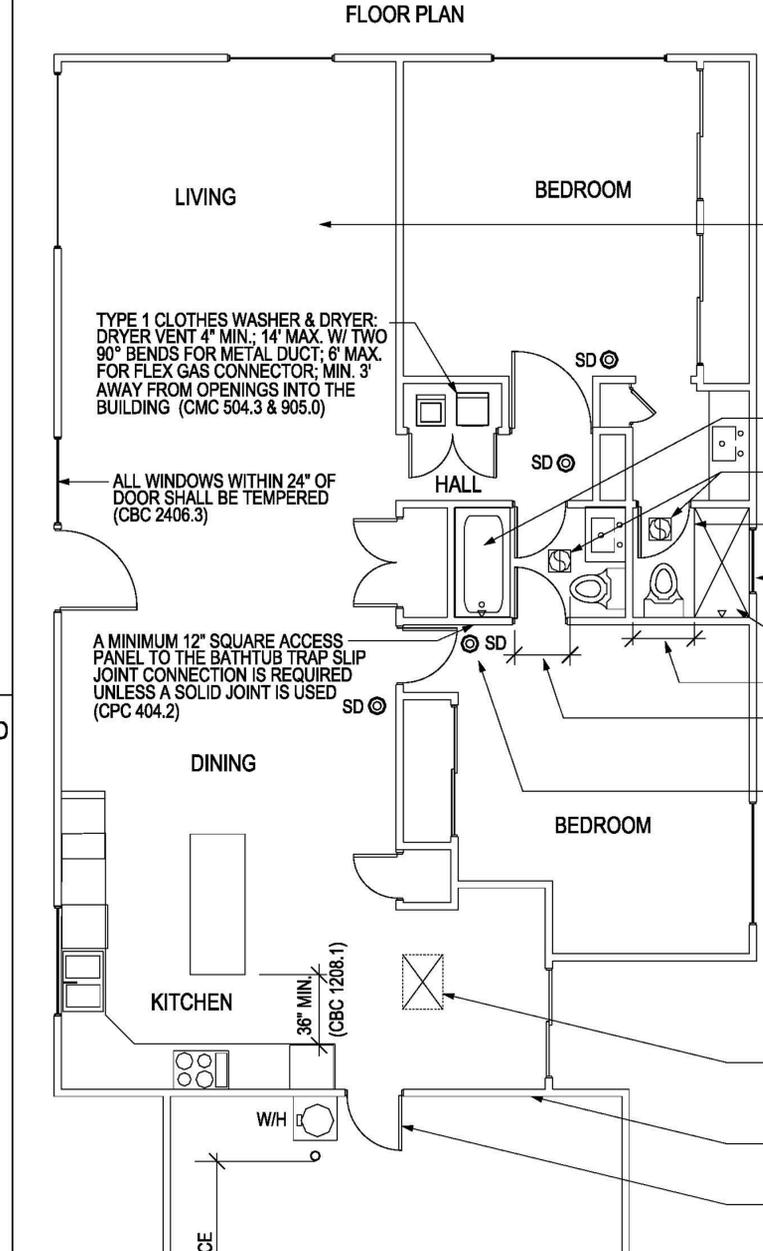
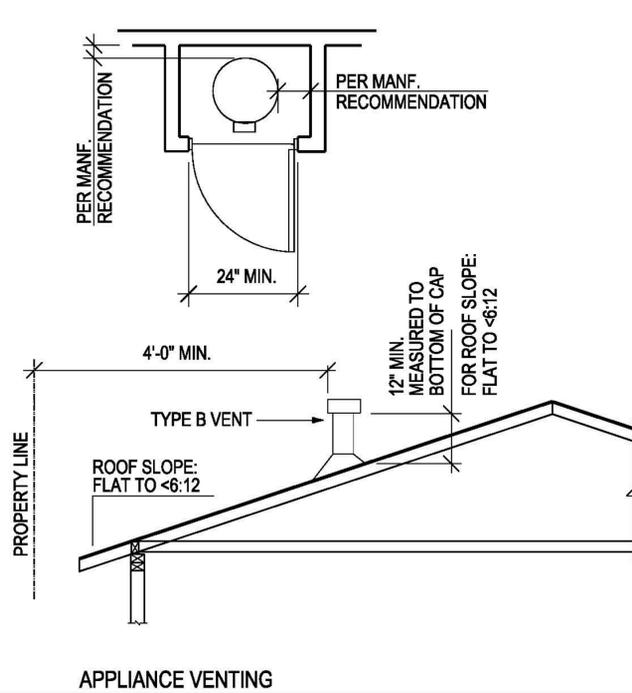
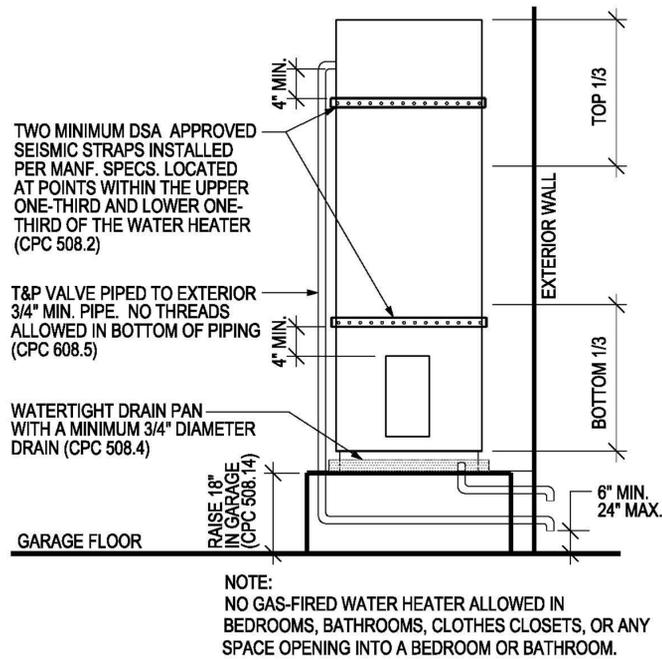


NORTH
A PLOT PLAN

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LIGHT: (CBC 1205.2/ 1205.3)
EVERY SPACE INTENDED FOR HUMAN OCCUPANCY SHALL BE PROVIDED WITH NATURAL LIGHT BY MEANS OF EXTERIOR GLAZED OPENINGS AT 8% OF THE FLOOR AREA.

VENTILATION: (CBC 1203.4)
NATURAL VENTILATION OF AN OCCUPIED SPACE SHALL BE THROUGH OPENINGS TO THE OUTDOORS AT 4% OF THE FLOOR AREA. ALL BATHROOMS SHALL BE MECHANICALLY VENTILATED IN ACCORDANCE WITH THE CALIFORNIA MECHANICAL CODE, CHAPTER 4.

MINIMUM ROOM DIMENSIONS: (CBC 1208.1/ 1208.2 / 1208.3)
AT LEAST ONE ROOM SHALL BE 120 SF. ALL OTHER HABITABLE AREAS SHALL BE 70 SF AND NOT BE LESS THAN 7'-0" IN ANY PLAN DIMENSION, EXCEPT KITCHEN MAY BE 50 SF AND HAVE A CLEAR PASSAGEWAY OF NOT LESS THAN 3'-0" MINIMUM. CEILING HEIGHT SHALL NOT BE LESS THAN 7'-6", EXCEPT BATHROOMS, KITCHENS, STORAGE ROOMS AND LAUNDRY ROOMS SHALL NOT BE LESS THAN 7'-0".

ALL SHOWER COMPARTMENT SHALL HAVE A MIN. SIZE OF 1,024 SQ. IN. AND CAPABLE OF ENCOMPASSING A 30" CIRCLE. (CPC 411.7)

ROOMS CONTAINING BATHTUBS, SHOWERS & SPAS SHALL HAVE AN EXHAUST FAN WITH A MINIMUM CAPACITY OF 50 CFM. (CBC 1203.4.2.1 & CMC 403.7)

SHOWER & TUB ENCLOSURES SHALL REQUIRE SAFETY GLAZING MATERIAL (I.E. TEMPERED GLASS). (CBC 2406.3)

WINDOWS AT SHOWERS & TUBS SHALL BE TEMPERED IF LESS THAN 60" ABOVE A STANDING SURFACE. (CBC 2406.3)

70" HIGH NON-ABSORBENT FINISH @ SHOWER WALL ABOVE THE DRAIN INLET. (CBC 1210.3)

30" MIN. CLEAR WIDTH FOR TOILET. (CPC 407.6)

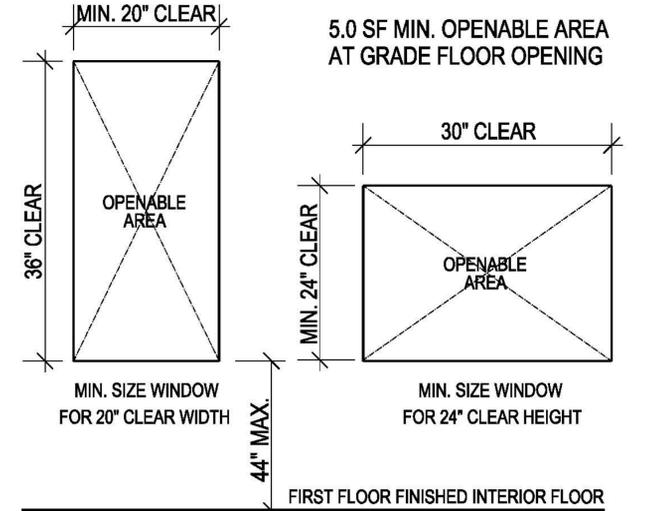
24" MIN. CLEAR IN FRONT OF TOILET. (CPC 407.6)

SMOKE DETECTORS: (CBC 907.2.10)
IN SINGLE FAMILY DWELLING UNITS, SMOKE DETECTORS ARE REQUIRED WHEN THE VALUATION OF AN ADDITION, ALTERATION, OR REPAIR WORK EXCEEDS \$1,000.00.
IN NEW CONSTRUCTION, 120V WITH BATTERY BACK-UP SMOKE DETECTORS ARE REQUIRED.
IN EXISTING CONSTRUCTION, BATTERY-OPERATED DETECTORS ARE PERMITTED.
LOCATE SMOKE DETECTORS IN BEDROOMS AND HALLWAYS OR ADJACENT ROOMS WITHIN THE IMMEDIATE VICINITY OF BEDROOM.
WHEN MORE THAN ONE ALARM IS REQUIRED WITHIN AN INDIVIDUAL DWELLING UNIT, THE SMOKE ALARMS SHALL BE INTERCONNECTED IN SUCH A MANNER THAT THE ACTIVATION OF ONE ALARM WILL ACTIVATE ALL OF THE ALARMS IN THE INDIVIDUAL UNIT.

20"x30" ATTIC ACCESS, OR 30"x30" IF FURNACE IS IN ATTIC AND EQUIPMENT WILL NOT PASS THROUGH 22"x30" ACCESS. MINIMUM HEADROOM IS 30". (CBC 1209.2)

WHERE GARAGES ARE ADJACENT TO THE RESIDENCE, THE WALL ON THE GARAGE SIDE SHALL BE PROTECTED WITH 1/2" TYPE "X" GYP. BD.

THE DOOR SHALL BE A SELF-CLOSING, SELF-LATCHING, TIGHT-FITTING 1-3/8" SOLID WOOD DOOR. (CBC 406.1.4)
NOTE: THE GARAGE SHALL NOT OPEN INTO A SLEEPING ROOM.

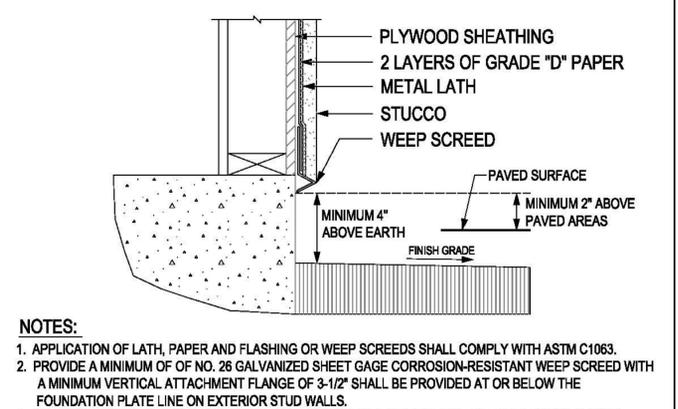
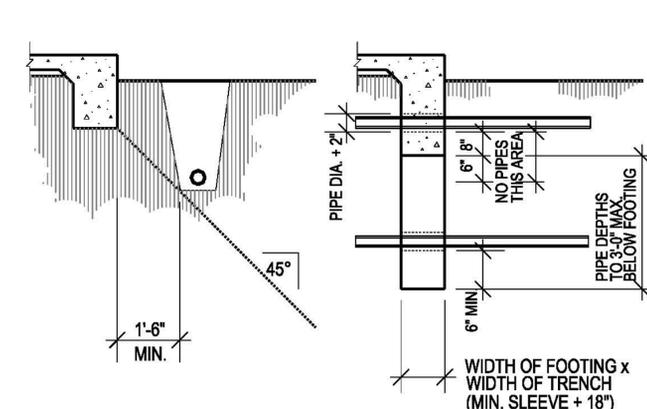


THE FOLLOWING WINDOW SIZES WILL BE THE MINIMUM ALLOWED FOR EGRESS UNLESS MANUFACTURER'S DATA IS SUPPLIED:

STANDARD 6'-8" HEADER HEIGHT	SINGLE CASEMENT:	SINGLE/DOUBLE HUNG:	SLIDER:
	2'-4" x 4'-0"	3'-0" x 5'-0"	4'-0" x 4'-0"
	2'-6" x 3'-6"	3'-0" x 5'-6"	5'-0" x 3'-6"
	3'-4" x 5'-0"	3'-4" x 5'-0"	6'-0" x 3'-0"
	4'-8" x 4'-0"	3'-8" x 5'-0"	SLIDER/FIXED COMBO:
	7'-0" x 4'-0"	4'-0" x 5'-0"	8'-0" x 4'-0"
			10'-0" x 4'-0"
			12'-0" x 3'-0"

SIZES SHOWN ARE TAKEN FROM DATA SUPPLIED BY WINDOW MANUFACTURERS, HOWEVER THESE ARE GENERAL DIMENSIONS. IT IS THE OWNER'S RESPONSIBILITY TO VERIFY THAT THE ACTUAL WINDOWS INSTALLED MEET THE MINIMUM EGRESS REQUIREMENTS.

AWNING, BAY WITH FIXED CENTER GLAZING, SINGLE FIXED COMBINATION WINDOW AND OTHER TYPES NOT MENTIONED ABOVE REQUIRE MANUFACTURER'S INFORMATION IF THEY ARE TO BE USED TO MEET EMERGENCY EGRESS REQUIREMENTS.



NOTES:

- APPLICATION OF LATH, PAPER AND FLASHING OR WEEP SCREEDS SHALL COMPLY WITH ASTM C1063.
- PROVIDE A MINIMUM OF OF NO. 26 GALVANIZED SHEET GAGE CORROSION-RESISTANT WEEP SCREED WITH A MINIMUM VERTICAL ATTACHMENT FLANGE OF 3-1/2" SHALL BE PROVIDED AT OR BELOW THE FOUNDATION PLATE LINE ON EXTERIOR STUD WALLS.
- THE WATER-RESISTIVE BARRIER TO THE EXTERIOR OF THE BUILDING AND THE EXTERIOR LATH SHALL COVER AND TERMINATE ON THE ATTACHMENT FLANGE OF THE WEEP SCREED.

- NOTES:**
- Permanently installed luminaires in kitchens shall be high efficacy luminaires. Up to 50% of the total rated wattage of permanently installed luminaires in kitchens may be luminaires that are not high efficacy luminaires, provided that these luminaires are controlled by switches separate from those controlling the high efficacy luminaires. The wattage of high efficacy luminaires shall be the total nominal rated wattage of the installed high efficacy lamp(s). (Part 6, Chapter 7, Section 150(k)2)
 - Permanently installed lighting in bathroom, garages, laundry rooms and utility rooms shall be high efficacy luminaires or a manual-on occupant sensor must control it. (Part 6, Chapter 7, Section 150(k)3)
 - Permanently installed light other than in kitchens, bathrooms, garages, laundry rooms and utility rooms (except closets less than 70 sq. ft.) shall be high efficacy or a dimmer must control it. (Part 6, Chapter 7, Section 150(k)4)
 - Outdoor lighting attached to a building must be high efficacy, or controlled by a motion sensor with integral photocontrol. Motion sensors used in conjunction with outdoor lighting luminaires should have the capability of turning the lights on automatically. (Part 6, Section 150(k)6)
 - Water closets shall have an average consumption of not more than 1.6 gallons of water per flush. Shower heads shall be designed and installed so that they will not exceed a water supply flow rate of 2.5 gallons per minute measured at 80 psi. Faucets shall be designed and manufactured so that they will not exceed a water supply flow rate of 2.2 gallons per minute measured at 60 psi. (CPC 402)
 - Top of chimney must extend a minimum of 2' above any part of the building within 10'. An approved spark arrester is required for the chimney. (CMC 802.5.2.1)

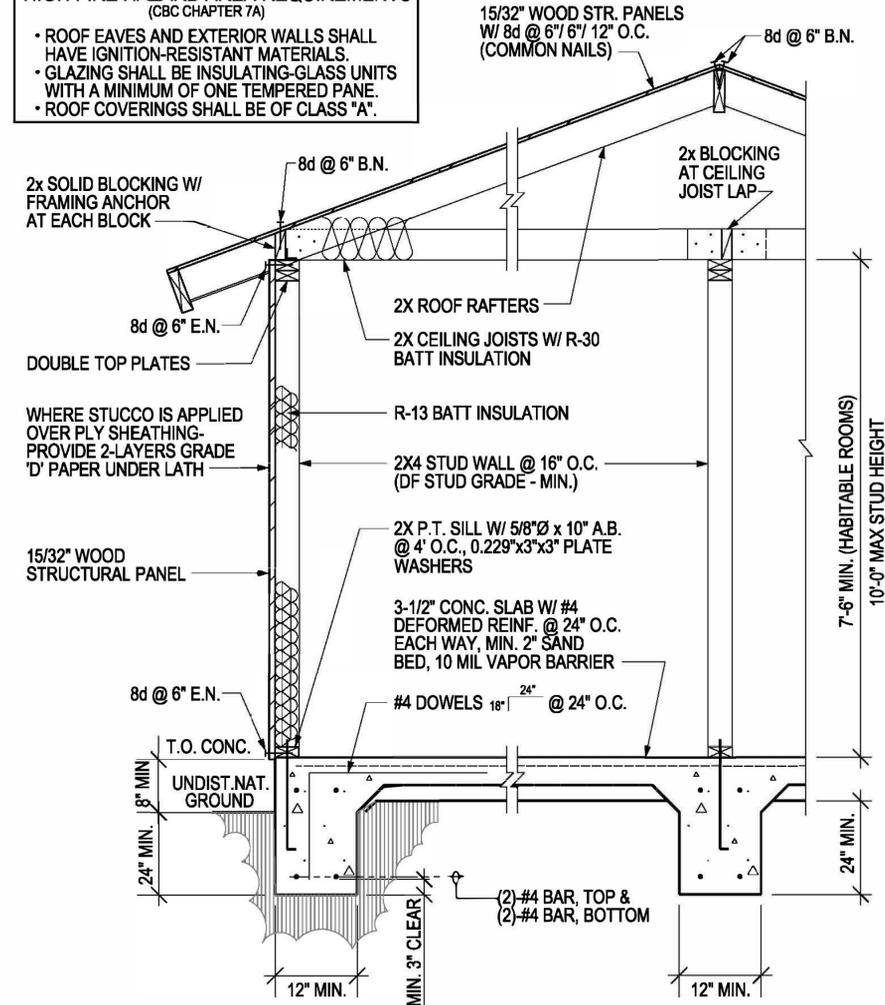
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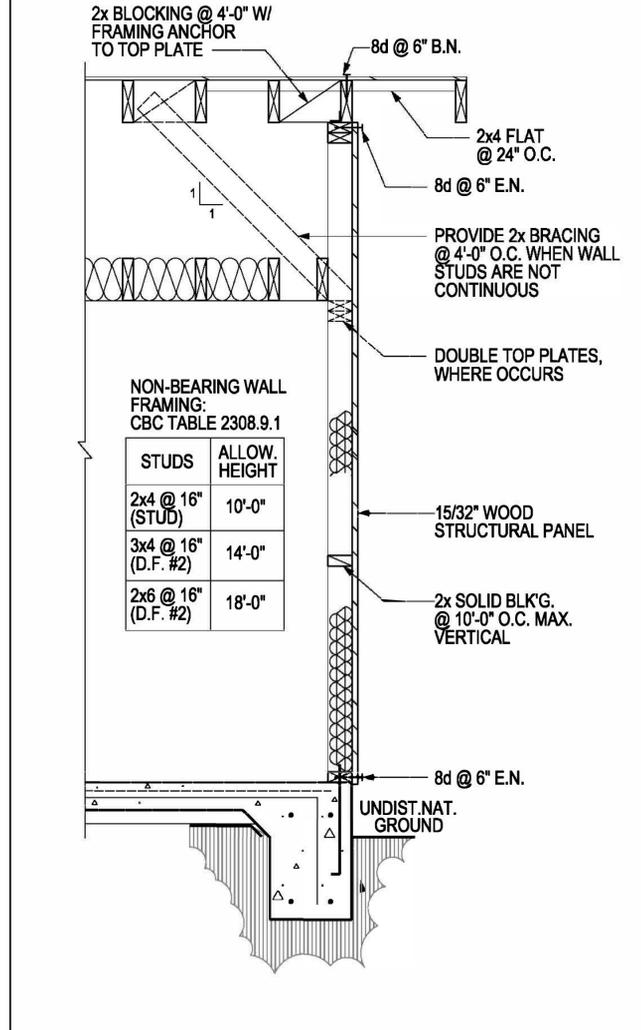
HIGH FIRE HAZARD AREA REQUIREMENTS
 (CBC CHAPTER 7A)

- ROOF EAVES AND EXTERIOR WALLS SHALL HAVE IGNITION-RESISTANT MATERIALS.
- GLAZING SHALL BE INSULATING-GLASS UNITS WITH A MINIMUM OF ONE TEMPERED PANE.
- ROOF COVERINGS SHALL BE OF CLASS 'A'.

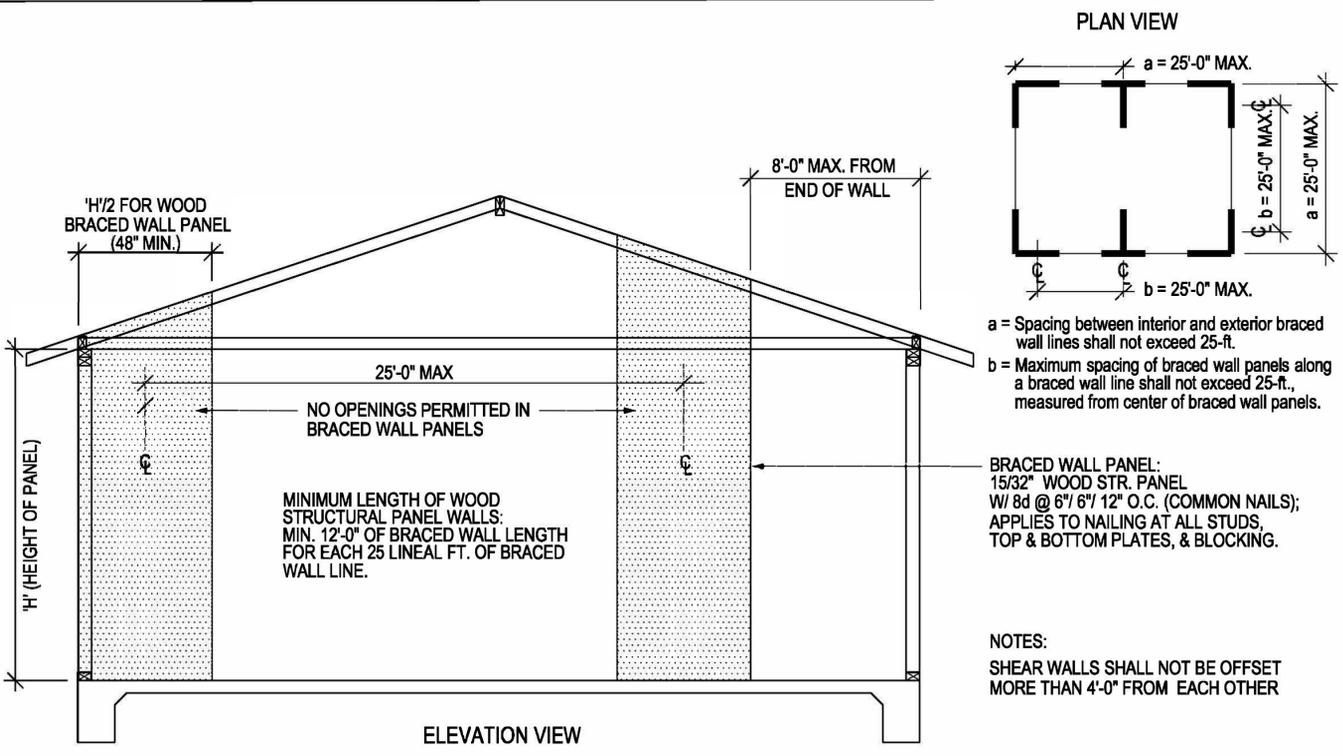


BUILDING SECTION: SLAB-ON-GRADE CONSTRUCTION

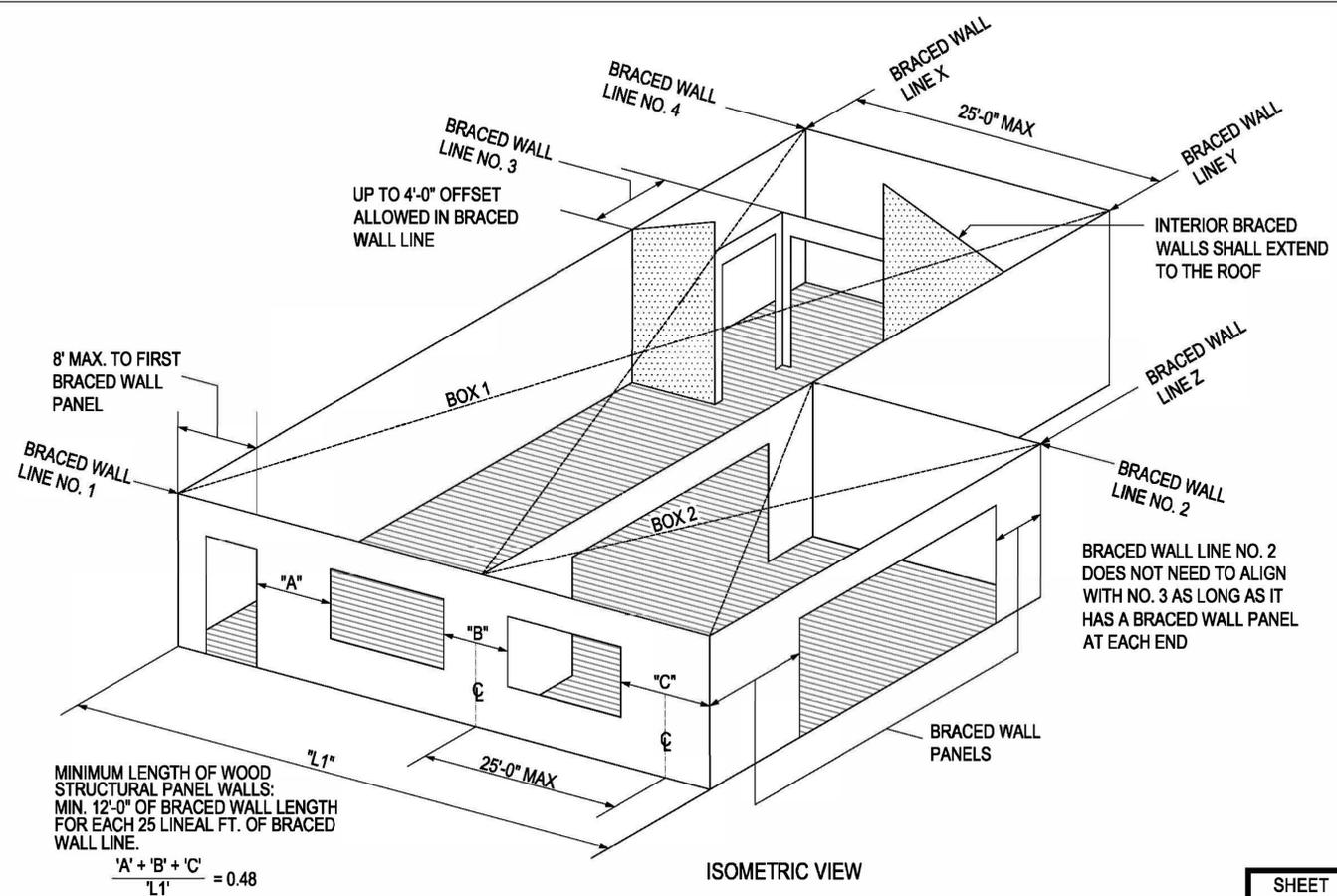
- NOTES:
1. Project shall comply with the 2007 California Building, Energy, Mechanical, Electrical and Plumbing Codes.
 2. Foundation dimensions shown herein do account for expansive soils. Foundation requirements may be reduced when justified by a geotechnical report.
 3. Minimum compressive concrete strength shall be 2,500 psi.
 4. Bearing walls and braced wall panels require continuous footings.
 5. All foundation plates or sills and sleepers on a concrete or masonry slab, which are in direct contact with earth, and sills that rest on concrete or masonry foundations shall be pressure treated (P.T.) wood. Fasteners in preservative treated wood or fire retardant treated wood shall be of hot dipped zinc coated galvanized steel or stainless steel.
 6. 5/8" diameter anchor bolts (A.B.) x 10" (embedded 7") and spaced maximum 4' with 0.229" x 3" x 3" plate washers, minimum 2 anchor bolts per piece, located not more than 12" or less than 7 bolt diameters from each end of the piece.
 7. Footings on or adjacent to slopes shall meet the requirements of CBC 1805.3.
 8. Stucco shall be provided with a corrosion-resistant weep screed a minimum of 4" above earth or 2" above paved area.
 9. Minimum 6" clearance between wood siding and earth on the exterior unless siding, sheathing and wall framing are of naturally durable or preservative-treated wood per CBC 2304.11.2.6.
 10. All bolt holes shall be drilled 1/32" to 1/16" oversized. Bolts shall not be forcibly driven.
 11. Where interior walls are shear walls, wall framing and sheathing shall extend to the roof sheathing.
 12. Roof diaphragm nailing to be inspected before covering. Strength axis of wood structural panel shall be perpendicular to supports.
 13. Enclosed attics and enclosed rafter spaces shall have cross ventilation for each separate space. A minimum of 1" shall be provided between the insulation and the roof sheathing. The net free ventilating area shall not be less than 1/150 of the area being ventilated, with 50% of the required ventilating area provided by ventilators located in the upper portion of the attic space to be ventilated at least 3' above eave or cornice vents with the balance of the required ventilation provided by eave or cornice vents. The minimum net free ventilating area may be 1/300 of the space ventilated, provided a vapor retarder having a transmission rate not exceeding 1-perm in accordance with ASTM E96 with the vent locations as specified above. (CBC 1203) Exterior ventilation openings into the attic space shall be covered with corrosion-resistant wire mesh with the least dimension not exceeding 1/8". (CBC 1203.2.1)
 14. Eaves shall not project more than 12" where openings are not permitted and shall not project more than 1/3 the distance from assumed vertical plane located where protected openings are required as per CBC 704.2 and 704.8.
 15. Eave construction shall be of 1-hr construction, heavy timber construction, or approved fire retardant treated wood, when located where openings are not permitted or where opening protection is required as specified by CBC 704.3.2 and Table 704.8.
 17. For single family dwellings, duplexes, and their accessory buildings, maximum wall openings not to exceed 25% of wall area when within 5' of property line. Openings not allowed when less than 3' to property line. 1-hr wall required when within 5' of property line.
 18. Except for single family dwellings, duplexes, and their accessory buildings, maximum area of exterior wall openings shall comply with CBC 704.8 and Table 704.8. The fire resistance rating of exterior walls shall comply with the provisions of CBC 704.5.



WALL SECTION: GABLE END WALL



STANDARD BRACED WALL PANELS (CBC 2308.12.4)

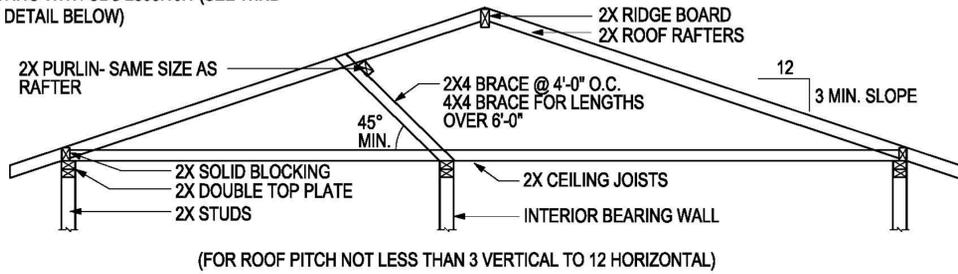


BASIC COMPONENTS OF THE LATERAL BRACING SYSTEM

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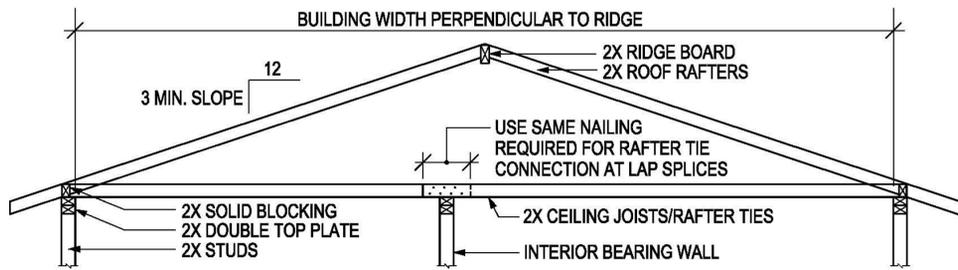
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NOTE: PROVIDE WIND UPLIFT ANCHORAGE COMPLYING WITH CBC 2308.10.1 (SEE WIND UPLIFT DETAIL BELOW)



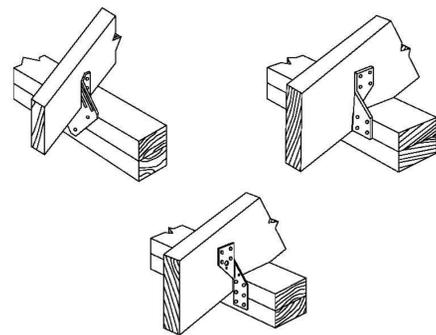
PURLINS (CBC 2308.10.5)

NOTE: PROVIDE WIND UPLIFT ANCHORAGE COMPLYING WITH CBC 2308.10.1 (SEE WIND UPLIFT DETAIL BELOW)



RAFTER TIE CONNECTION (CBC Table 2308.10.4.1)				
Minimum number of 16d Common Nails at Rafter Tie Connection				
Roof Slope	Tie Spacing	Roof Span		
		20'	28'	36'
3 : 12	16"	7	10	13
	24"	11	15	19
4 : 12	16"	5	7	8
	24"	7	10	12
5 : 12	16"	4	5	7
	24"	6	8	10

RAFTER TIES (CBC 2308.10.4.1)

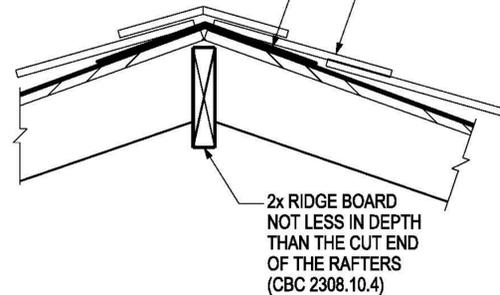


ROOF ASSEMBLIES SHALL HAVE RAFTER TIES TO THE WALL BELOW. THE RAFTER TO WALL CONNECTION SHALL COMPLY WITH TABLES 2304.9.1 AND 2308.10.1. (MINIMUM 18 GA. MANUFACTURED HURRICANE TIES AT EACH RAFTER RECOMMENDED)

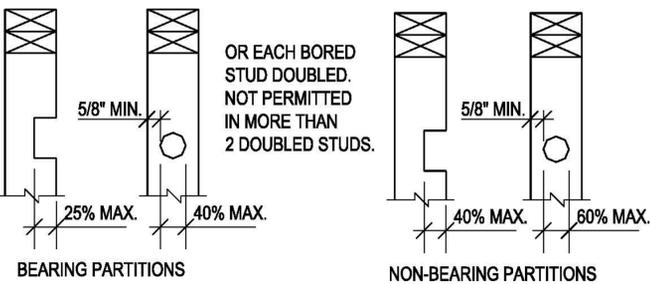
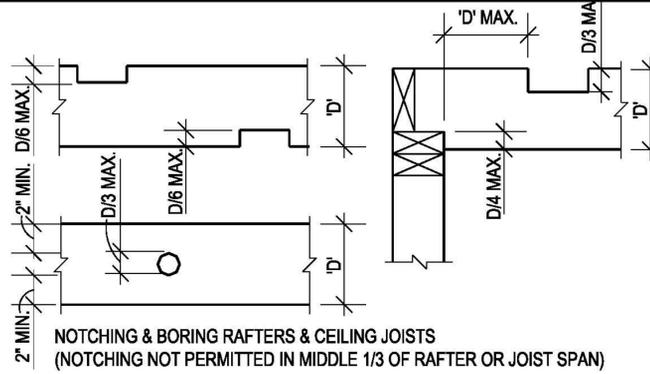
WIND UPLIFT (CBC 2308.10.1)

4:12 MIN. SLOPE W/ 1-LAYER TYPE 15 FELT
 2:12 TO 4:12 MIN. SLOPE WITH SELF-SEALING OR HAND-SEALED COMP. SHINGLES W/ 2-LAYERS TYPE 15 FELT

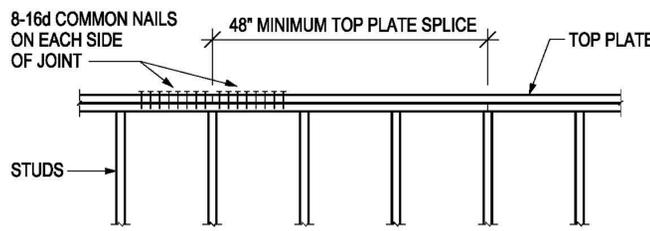
18 GA. STRAP @ 48" O.C.



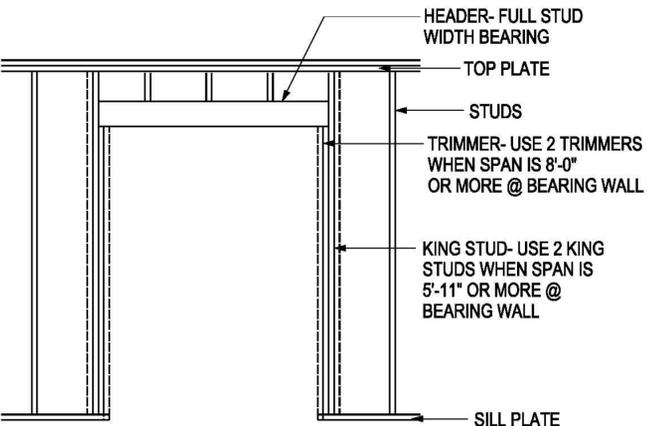
ROOF SLOPE - COMPOSITION SHINGLES (CBC 1507.2)



NOTCHING & BORING:
 WALL STUDS (CBC 2308.9.10 / 2308.9.11)
 RAFTERS/CEILING JOISTS (CBC 2308.10.4.2)



TOP PLATE SPLICE (CBC 2308.9.2.1)



HEADER/ LINTEL (CBC 2308.9.5.1)

ALLOWABLE SPANS FOR DF #2 ROOF RAFTERS (DF-LARCH)

Max. Roof Covering Load: 6 psf (Asph. Shingles)
 Dead Load, Including Roof Covering: 20 psf
 Live Load: 20 psf
 L/A = 240
 CBC TABLE 2308.10.3(2)

RAFTER SIZE	SPACING	ALLOWABLE SPAN
2x6	24"	10'-2"
	16"	12'-5"
	12"	14'-4"
2x8	24"	12'-10"
	16"	15'-9"
	12"	18'-2"
2x10	24"	15'-8"
	16"	19'-3"
	12"	22'-3"
2x12	24"	18'-3"
	16"	22'-4"
	12"	25'-9"

ALLOWABLE SPANS FOR DF #2 CEILING JOIST (DF-LARCH)

Dead Load: 5 psf
 Live Load: 10 psf
 L/A = 240
 CBC TABLE 2308.10.2(2)

JOIST SIZE	SPACING	ALLOWABLE SPAN
2x4	24"	9'-10"
	16"	11'-3"
	12"	12'-5"
2x6	24"	14'-10"
	16"	17'-8"
	12"	19'-6"
2x8	24"	18'-9"
	16"	23'-0"
	12"	25'-8"
2x10	24"	22'-11"
	16"	26'-0"
	12"	26'-0"

ALLOWABLE SPANS FOR DF #1 & BETTER HEADERS (DF-LARCH)
 Maximum span of tributary load: 20'-0"

BEAM SIZE	ALLOWABLE SPAN
4x4	Up to 4'-0"
4x6	4'-1" to 6'-0"
4x8	6'-1" to 8'-0"
4x10	8'-1" to 10'-0"
4x12	10'-1" to 12'-0"

ALLOWABLE SPANS AND LOADS FOR WOOD STRUCTURAL PANEL SHEATHING AND SINGLE-FLOOR GRADES CONTINUOUS OVER TWO OR MORE SPANS WITH STRENGTH AXIS PERPENDICULAR TO SUPPORTS
 NOTE: APPLIES TO PANELS 24" OR WIDER

PANEL SPAN RATING Roof/Floor Span	SHEATHING GRADES PANEL THICKNESS (inches)	ROOF				FLOOR MAX. SPAN (inches) Panel edges with tongue & groove joints or with blocking.
		MAXIMUM SPAN (inches)		LOADS (psf)		
		EDGE SUPPORT	NO EDGE SUPPORT	TOTAL DEAD LOAD	TOTAL LIVE LOAD	
24/0	3/8, 7/16, 1/2	24	20	40	30	
24/16	7/16, 1/2	24	24	50	40	16
32/16	15/32, 1/2, 5/8	32	28	40	30	16
40/20	19/32, 5/8, 3/4, 7/8	40	32	40	30	20
48/24	23/32, 3/4, 7/8	48	36	45	35	24

NAILING SCHEDULE (CBC TABLE 2304.9.1)

CONNECTION	FASTENINGS		LOCATION
	COMMON NAILS	SINKER NAILS	
JOIST TO SILL OR GIRDER	3-8d	3-12d	toenail
BRIDGING TO JOIST	2-8d	2-12d	toenail each end
SOLE PLATE TO JOIST OR BLOCKING	16d @ 16" O.C. 3-16d @ 16" O.C.	12d @ 8" O.C. 4-12d @ 16" O.C.	typical face nail at braced wall panels
TOP PLATE TO STUD	2-16d	3-12d	end nail
STUD TO SOLE PLATE	4-8d 2-16d	4-12d 3-12d	toenail end nail
DOUBLE STUDS	16d @ 24" O.C.	12d @ 8" O.C.	face nail
DOUBLE TOP PLATES	16d @ 16" O.C. 8-16d	12d @ 12" O.C. 12-12d	typical face nail lap splice (at each side of joint)
BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE	3-8d	3-12d	toenail
RIM JOIST TO TOP PLATE	8d @ 6" O.C.	12d @ 6" O.C.	toenail
TOP PLATES, LAPS AND INTERSECTIONS	2-16d	3-12d	face nail
CEILING JOISTS TO PLATE	3-8d	5-12d	toenail
CONTINUOUS HEADER TO STUD	4-8d	-	toenail
CEILING JOISTS, LAPS OVER PARTITIONS	3-16d minimum	4-12d minimum	face nail
CEILING JOISTS TO PARALLEL RAFTERS	3-16d minimum	4-12d minimum	face nail
RAFTER TO PLATE	3-8d	3-12d	toenail
BUILT-UP CORNER STUDS	16d @ 24" O.C.	12d @ 16" O.C.	24" O.C.
2" PLANKS	16d	-	at each bearing
COLLAR TIE TO RAFTER	3-10d	4-12d	face nail
ROOF RAFTER TO 2x RIDGE BOARD	2-16d 2-16d	3-12d 3-12d	toe nail face nail
JOIST TO BAND JOIST	3-16d	4-12d	face nail