STRUCTURAL & MATERIAL SPECIFICATIONS

DESIGN LOADS

DEAD LOAD	LIVE LOAD	USE (LB./ SQUARE FOOT)
10	20	ATTICS ACCESSIBLE BY SCUTTLE OR MEANS OTHER THAN STAIR; CLEAR HEIGHT PERMITS LIMITED STORAGE OF HOUSEHOLD ITEMS
20	20	(SNOW) ROOF
10	10	ALL OTHER ATTIC SPACES, NO STORAGE, ROOF SLOPE 3:12 MAX
10	40	EXTERIOR DECKS
	16.4	WIND PRESSURE: BUILDINGS UP TO 30 FT AT 90 MPH.
	90 MPH	WIND SPEED
	1500 PSF	MINIMUM SOIL BEARING PRESSURE

ALLOWABLE DEFLECTIONS H = HEIGHT L = LENGTH

- L/180 RAFTERS HAVING SLOPES GREATER THAN 3/12 WITH NO FINISHED CEILING ATTACHED **TO RAFTERS**
- H/180 INTERIOR WALLS AND PARTITIONS





CONCRETE



ALL CONTINUOUS FOOTINGS ARE TO BE 24" X 10" WITH (2) #5 BARS CONTINUOUS UNLESS OTHERWISE NOTED.

CONCRETE SLABS TO BE 4" THICK, OVER 6 MIL VAPOR BARRIER, OVER 4" MINIMUM WASHED GRAVEL (3/4" MINIMUM DIAMETER) WITH 6 X 6 X10/10 WELDED WIRE FABRIC (WWF) OR #4 BARS AT 24" O.C. EACH WAY UNLESS OTHERWISE NOTED. CONTROL JOINTS TO BE PROVIDED AT 10'-0" O.C. MAXIMUM AND 1" DEEP. SLOPE BASEMENT SLABS TO FLOOR DRAINS. SLOPE GARAGE SLABS 1/8" PER FOOT MINIMUM AND 1/4" PER FOOT MAXIMUM TOWARDS GARAGE DOORS.

BEAM POCKETS TO BE SET TO MATCH DEPTH OF STEEL, TO BE 1" WIDER THAN THE BEAM FLANGES, AND TO HAVE A MINIMUM OF 6" BEAM BEARING AREA INTO THE WIDTH OF THE CONCRETE WALL

OPENINGS IN CONCRETE WALLS TO HAVE (2) #4 BARS VERTICAL AT EACH SIDE OF OPENING, FULL HEIGHT OF THE CONCRETE POUR. CONCRETE LINTELS TO HAVE (2) #4 BARS DIRECTLY ABOVE THE OPENINGS AND EXTEND 30" PAST OPENING (UNLESS OTHERWISE NOTED). (2) #4 BARS AT TOP OF WALL

WOOD

WALL STUDS TO BE STUD GRADE SO. YELLOW PINE or SPF. ALL OTHER LUMBER TO BE SOUTHERN YELLOW PINE OR SPF #1 MIN. MICRO-LAM MEMBERS TO HAVE AN FB = 2800PSI: E = 2,000,000 PSI. PRESSURE TREATED LUMBER TO BE AWPA, WATERBORNE (CCA) TREATED YELLOW PINE, GRADE 2 FOR ABOVE GROUND USE. ALL CONSTRUCTION GRADE WOOD IN CONTACT WITH CONCRETE OR WITHIN 8" OF GRADE TO BE PRESSURE TREATED. ALL BOTTOM PLATES FOR WOOD WALLS RESTING ON CONCRETE TO BE PRESSURE TREATED. ALL STRUCTURAL LUMBER EXPOSED TO EXTERIOR TO BE PRESSURE TREATED OR APPROVED SPECIES. PLYWOOD TO BE APA PANEL SPECIFICATIONS RATED FOR SPECIES, PANEL GRADE, SPAN RATING, THICKNESS, EXPOSURE CLASSIFICATION, AND MILL LUMBER. PLYWOOD SHALL BE GAPPED AS PER APA RECOMENDATIONS ON WALL, FLOOR AND ROOF SHEATING. USE CLIPS AT ALL FREE EDGES. **TYPICAL** HEADER SIZE AT THE FRAME OPENING TO BE (2)2X10 UNLESS OTHERWISE NOTED. ALL DOUBLE 2X HEADERS TO BE FASTENED TOGETHER AT THE TOP AND BOTTOM INTO EACH ADJACENT MEMBER WITH (MINIMUM) 2 ROWS OF 16D NAILS AT 12" O.C., UNLESS OTHERWISE NOTED. FOR HEADERS GREATER THAN TWO MEMBERS WIDE, CONTACT DESIGNER FOR FASTENING, UNLESS NOTED ON PLAN. LAMINATED VENEER LUMBER (LVL) BEAMS TO BE FASTENED TOGETHER PER MANUFACTURERS SPECIFICATIONS. ALL TJI'S AND LVL BEAMS TO BE INSTALLED, BRACED, JOIST HUNG, ETC., ACCORDING TO MANUFACTURERS' SPECIFICATIONS. BEARING STIFFENERS TO BE ADDED TO ENDS OF ALL T.J.I.'S. FIRESTOPPING OF TWO INCH NOMINAL LUMBER SHALL BE PROVIDED TO FORM AN EFFECTIVE FIRE BARRIER BETWEEN ALL CONCEALED DRAFT OPENINGS, BOTH VERTICAL AND HORIZONTAL BRIDGING IN FLOOR JOISTS TO BE FABRICATED METAL BRIDGING (SECURED AT BOTH ENDS), OR SOLID BRIDGING OFFSET AND END NAILED. SOLID BRIDGING TO BE MADE OF 2X MATERIAL OF ONE SIZE SMALLER THAN FLOOR JOIST DEPTH. ALIGN BOTTOM CHORDS OF SOLID BRIDGING AND BOTTOM OF FLOOR JOISTS. BRIDGING SHALL NEVER TOUCH BOTTOM OF FLOOR SHEATHING. SET BRIDGING AT 6'0" O.C.MAXIMUM, UNLESS OTHERWISE

NOTED.





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