

1. ALL DIMENSIONS NOTED TO FACE OF STUD.
2. ALL EXTERIOR WALLS TO BE 2x6 STUDS, WITH EXTERIOR FACE OF STUD FLUSH WITH EXTERIOR FACE OF CONCRETE FOUNDATION WALL. (SEE FOOTING DETAIL ON SHEET 1a).
3. ALL INTERIOR WALLS TO BE 2x4 STUDS (UNLESS NOTED OTHERWISE), WITH WALLS CENTERED ON INTERIOR CONCRETE FOUNDATION WALLS, AS DIMENSIONED.
4. FOUNDATION WALLS SHOWN IN GREEN LINES FOR REFERENCE.
5. 5FT. WDW./DR. OPENINGS OR LESS TO BE (3) 2x10 HEADERS WITH 1/2" PLYWOOD BTWN., WDW./DR. OPENINGS OVER 5FT. TO BE (3) 2x12 HEADERS WITH 1/2" PLYWOOD BTWN.
5. ALL FLOOR, WALL, AND ROOF SHEATHING SHALL BE ATTACHED WITH 8d NAILS AT 6 INCH SPACING ON PANEL PERIMETER UNLESS NOTED.
7. STRUCTURAL SUPPORTS UNDER STEEL BEAMS TO BE 3.5 INCH STD. PIPE 4 INCH OUTSIDE DIAMETER, WITH 1/2 INCH BY 6.5 INCH BY 6.5 INCH BASEPLATE. POSITION BASE PLATE ON MASONRY WALL WITH 1 INCH GROUT BED.
8. STRUCTURAL SUPPORTS UNDER WOOD HEADERS TO BE 3.5 INCH BY 3.5 INCH PSL POST. POST CROSS-SECTION TO BE CONTINUOUS THROUGH FLOOR FRAMING CONSTRUCTION OR SOLID VERTICAL BLOCKING TO BE INSTALLED WITHIN FLOOR CONSTRUCTION. ATTACH BASE OF STUDS WITH SIMPSON HHDD11-SDS2.5 HOLDOWN INTO SOLID GROUTED MASONRY FOUNDATION WALL.
9. STEEL BEAMS TO BE 50ksi Fy; STEEL PIPE 35ksi Fy; BASEPLATES 36ksi Fy; STRUCTURAL SAWN LUMBER TO BE SPRUCE-PINE-FIR No.1/No.2; LVL BEAMS TO BE 2600psi Fb MIN., 285psi Fv MIN., 2.0 E MIN.
10. STRUCTURAL CONCRETE SLABS TO BE NORMAL WEIGHT CONCRETE (145 PSF, 3,000psi fc MIN.); STRUCTURAL CONCRETE FOUNDATIONS TO BE NORMAL WEIGHT CONCRETE (145 PSF, 3,000psi fc MIN.).
11. DESIGN STRESSES: W SHAPES Fy= 50ksi; PIPES Fy= 35ksi; ANCHOR RODS Fy= 55ksi; STUDS Fu= 65ksi; SLABS Fy= 4ksi.
12. ALL WALL FRAMING AROUND COLUMNS, INCLUDING SHEATHING, SHALL BE COMPLETED PRIOR TO CONCRETE PLACEMENT.

W12x35 (12.5in. DEPTH, 6.5in. WIDTH); 45.6in3 Sx, 285in4 I  
W16x26 (15.75in. DEPTH, 5.5in. WIDTH); 38.4in3 Sx, 301in4 I

**FLOOR UNIFORM LOAD**  
40PSF R. LIVE LOAD + 10PSF R. DEAD LOAD  
0.056k/ft x 12.5ft, 1/2 SPANS = 0.825k/ft  
0.625k/ft x 23.5ft. BEAM SPAN x 23.5ft. BEAM SPAN / 16 = 21.57in3 Sx

**MAX. DEFLECTION (L/480)**  
0.625k/ft x 23.5ft. SPAN / 3 x 23.5ft. SPAN x 23.5ft. SPAN / 32,222 = 251.73in4



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