



FOUNDATION CONCRETE AND DESIGN

1. Foundation design is based on Table 18-1-A of the 1997 Uniform Building Code. Foundation design assumes no special soil conditions (or rock) exist at the site per footnote 1, 1997 UBC Table 18-1-a.
2. Assumed allowable vertical download on soil below spread footing is 1,500 pounds per square foot at a depth of 12 inches below natural ground surface; plus a 1/3rd increase for wind and seismic loads.
3. Lateral resistance is offered by a passive resistance (EFP) of 100 pcf plus a 1/3rd increase for wind and seismic loads combined with a lateral sliding coefficient of 0.30 between concrete and soil.
4. Lateral and overturning forces are resisted by a force couple acting on the building structure and the supporting foundations.
5. Concrete shall have an ultimate compressive strength of at least 2,500 psi at 28 days and shall contain 6.5 sacks of cement per cubic yard, minimum. An air entraining agent shall be used which shall result in a minimum of 5% and a maximum of 7% entrained air at time of concrete placement. Cement shall conform to ASTM C-150, Type II, low alkali cement. The ratio of water to cement (W/C) shall not exceed 0.50 by weight. Concrete aggregates shall conform to ASTM C33.
6. Reinforcing bars shall conform to ASTM A615 - Grade 60 minimum. Provide 3" minimum clearance at all sides unless noted otherwise ("UNO") on plans.
7. Structural footing excavations shall be cleaned of all loose material prior to placing concrete. A representative of the local building authority and the Owner shall observe all foundation excavations before rebar or concrete placement. Foundations shall bear against firm, dry, undisturbed natural ground or rock.
8. Where welding of reinforcing steel is required, such welding shall conform with AWS D12.1 using proper low-hydrogen electrodes. Tack welding of or to rebar is strictly prohibited.
9. Reinforcing steel shall be fabricated according to the "Manual of Standard Practice for Reinforced Concrete Construction" of the Concrete Reinforcing Steel Institute, latest edition.
10. Concrete and soil are considered to weigh 150 and 90 pounds per cubic foot for design purposes, respectively.
11. Backfill and tamp soil tightly around continuous and isolated footings.

REV	DESCRIPTION	DATE	BY	DWN	NJY	DATE	6/1/07
				CHKD		DATE	
				APVD		DATE	



TITLE: SUGGESTED SLAB FOUNDATION
 JOB: STANDARD MODEL E SHELTER

DATE: 6/1/07
 SCALE: NONE

DWG NO: C1-E
 SHEET: 1 OF 1
 SIZE: B

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