RESIDENTIAL PIER REQUIREMENTS

ENGINEERING REQUIRED:
SLOPED BUILDING SITES (SLOPE>10%) OR PIERS 18" DIAMETER OR LARGER MUST BE DESIGNED BY A REGISTERED ENGINEER

MINIMUM CONCRETE STRENGTH:
(CBC 1808.2.23.2 EXC. 1) COMPRESSIVE STRENGTH NOT LESS THAN 2500 PSI (f'c)

MINIMUM PIER REINFORCEMENT FOR SEISMIC DESIGN:
CATEGORY D OR E: (CBC1810.1.2.2)

LONGITUDINAL REINFORCEMENT (As= 0.005Ag)
4.0#4 for 12" AND 14" DIAMETER PIERS
4.0#5 OR 5.0#4 .F.OR 16" DIAMETER PIERS

TRANSVERSE REINFORCEMENT (ps or Ash)
#3 SPIRAL @ 3" PITCH OR
#3 HOOP @ 3" O.C. SPACING

PIER DEPTH:
(CBC 1808.2.2) PER SOIL INVESTIGATION (UNLESS SUFFICIENT DESIGN DATA IS AVAILABLE). BUILDING ADDITIONS: MATCH EXISTING

ALLOWABLE FRICTIONAL RESISTANCE:
(CBC 1808.2.8.4) NOT TO EXCEED 1/6 OF THE BEARING VALUE OF THE SOIL AT MINIMUM DEPTH PER TABLE 1804.2, MAXIMUM OF 500 PSF. GREATER VALUES MAY BE ALLOWED BY THE BUILDING OFFICIAL WHEN RECOMMENDED BY A SOIL INVESTIGATION OR LOAD TEST

CLEARANCE REQUIRED:
PROVIDE 2 1/2" MIN. CLR. CONCRETE COVER FOR UNCASED SHAFTS (CBC 1810.2.5)

SPECIAL INSPECTION REQUIREMENTS: (CBC1704.9)
SPECIAL INSPECTOR / SOIL ENGINEER SHALL:
PER TABLE 1704.9:
- OBSERVE PIER DRILLING AND MAINTAIN ACCURATE RECORDS
- VERIFY PIER LOCATIONS, DIAMETER AND DEPTH
PER TABLE 1704.4:
- INSPECT REINFORCING STEEL
- TAKE SAMPLES AND PERFORM TESTS
- INSPECT PLACEMENT BY TREMIE OR FUNNEL HOPPER (CBC1810.1.3)
PROVIDE A REPORT INDICATING WORK IS IN CONFORMANCE WITH APPROVED PLANS