



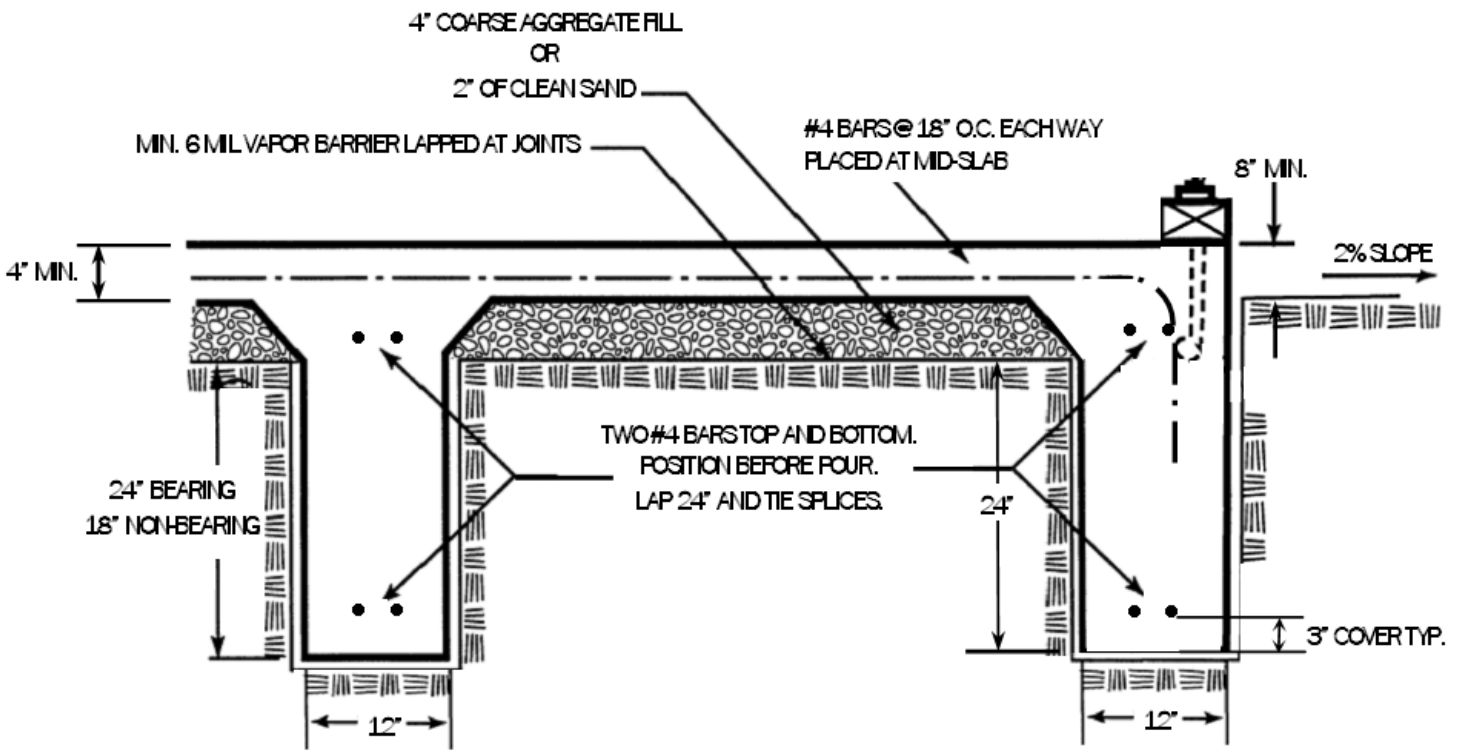
County of San Diego, Planning & Development Services
EXPANSIVE SOIL FOUNDATION DESIGN
BUILDING DIVISION

The design shown is authorized to be used for single-story structures at locations where moderately expansive soil conditions exist. Use of the design may be denied by the Building Official when site conditions indicate that use of the design may not be adequate to safeguard against structural damage. The design is not applicable to all sites. In instances where an unusual soil problem exists, the applicant will be required to retain a California-licensed civil or structural engineer to provide a soils report with foundation design recommendations. The design may not supersede any more restrictive foundation design for the site prepared by a California-licensed civil or structural engineer.

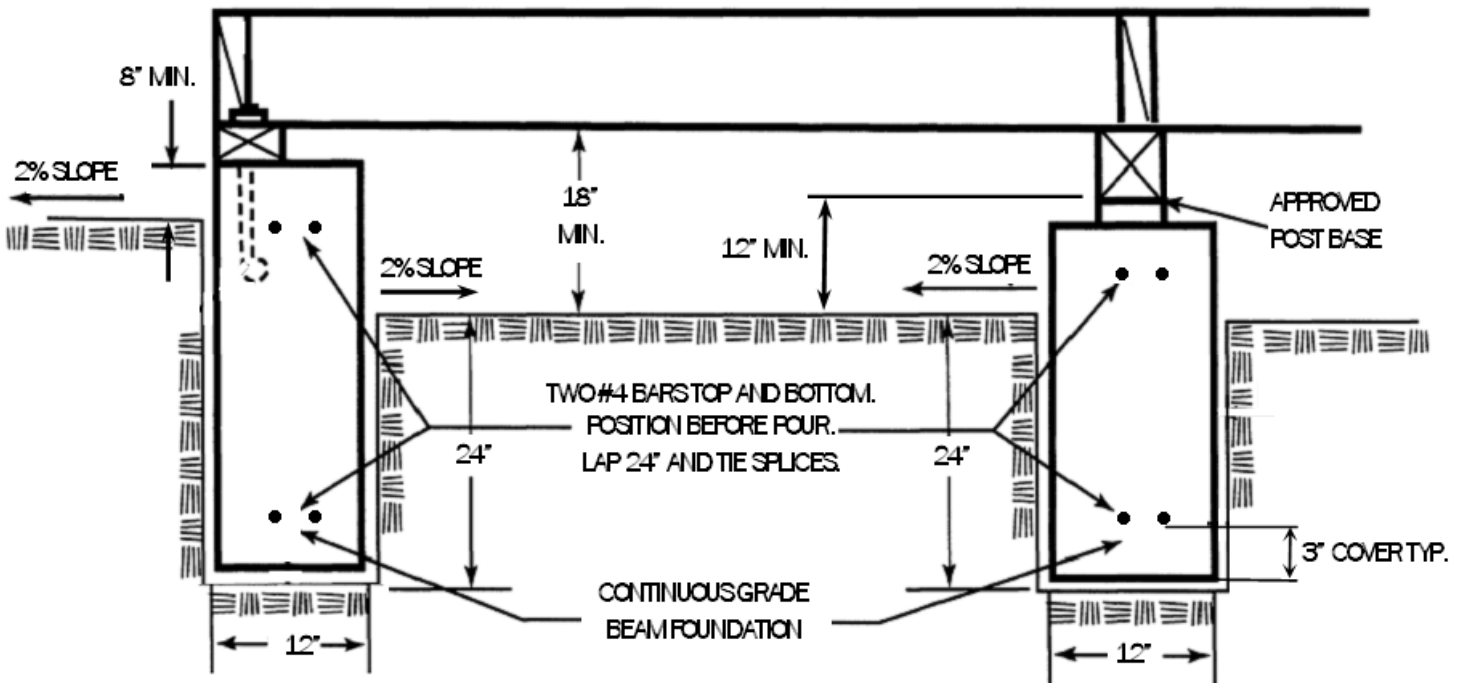
Building footings shall comply with the following requirements:

1. All work must comply with the 2016 *California Building Code* and/or 2016 *California Residential Code*, as applicable.
2. Minimum footing depth below natural and finish grade shall be 24 inches.
3. Slab on grade and footings must be a monolithic pour.
4. All exterior walls and interior bearing walls shall be supported on continuous footings.
5. Footings shall be reinforced with four #4 continuous steel bars. Two bars shall be placed within 4 inches of the bottom of the footings and two bars within 4 inches of the top of footings.
6. Slabs on grade shall have a minimum thickness of 4 inches reinforced with #4 bars spaced at intervals not exceeding 18 inches each way. Slabs shall have a minimum underlayment of 4 inches of coarse aggregate or 2 inches of clean sand. A 6 mil minimum moisture barrier is required beneath the slab underlayment and shall be properly lapped at joints.
7. Soil shall be pre-saturated to a depth of 18" prior to pouring foundations.
8. Drainage adjacent to footings shall be directed away from footings by sloping finish grade a minimum of 2% for a distance of 5 feet.

Construction shall be in compliance with these requirements and details 1 and 2. Construction in accordance with these requirements does not prevent the building inspector from requiring a soils report at any time based on site conditions.



① SINGLE STORY SLAB ON GRADE FOUNDATION



② SINGLE STORY RAISED FLOOR FOUNDATION