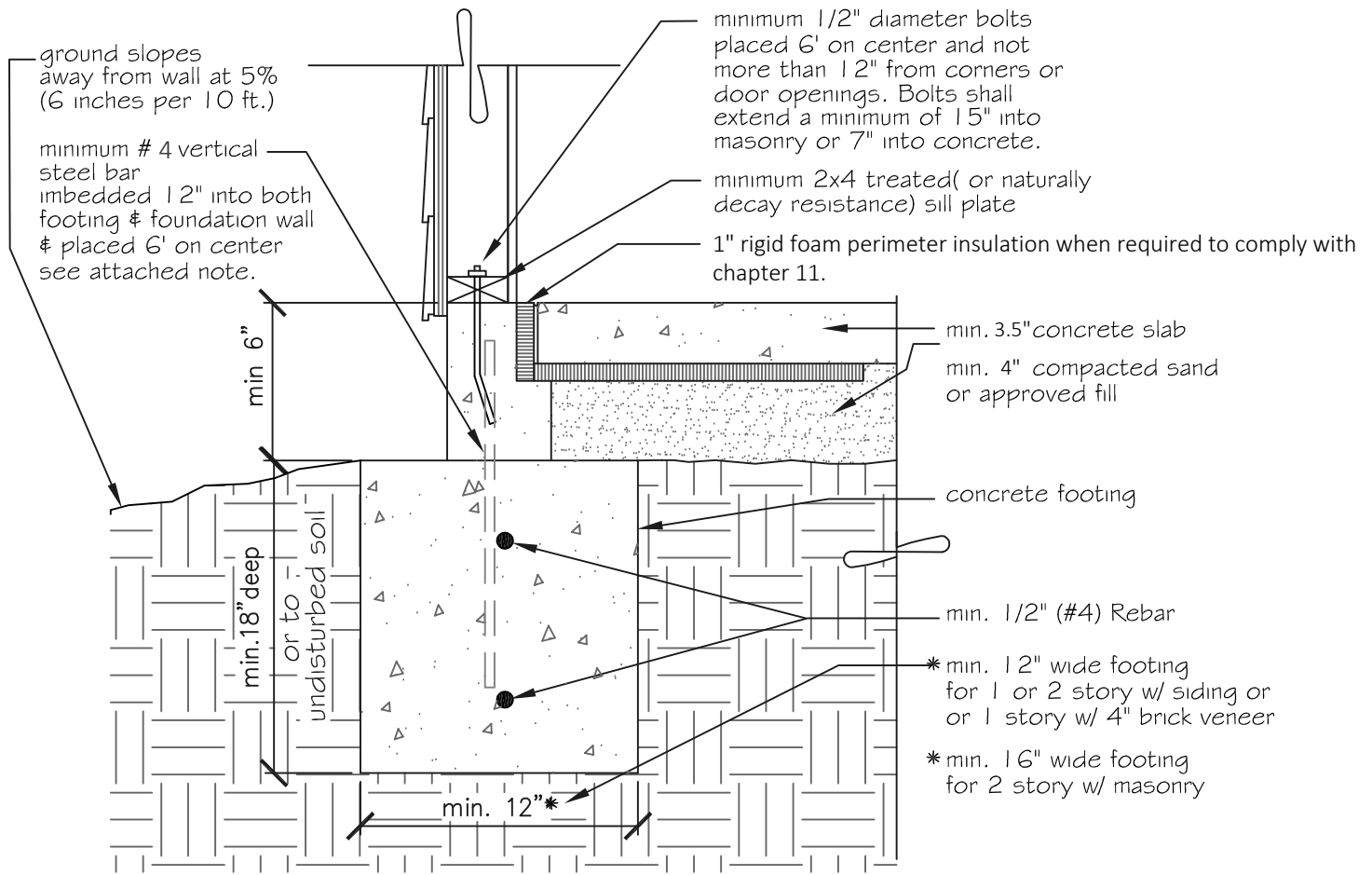


2018 International Residential Code, Prescriptive Foundation Detail



A Minimum Footing Detail
n.t.s. Prescriptive Foundation Detail

General Foundation Notes:

Foundation tie-in for additions requires a min. 1/2" dia. X 20" long rebar epoxy anchored @ 30" o.c.; drill and set into existing slab a minimum 6 inches.

Foundation construction shall be capable of accommodating all loads and of transmitting the resulting loads to the supporting soil. Fill soils that support footings and foundations shall be designed, installed and tested in accordance with accepted engineering practice per 2018 IRC, Section 401.2.

Where lot lines, slopes or other physical barriers prohibit 6 inches of fall within 10 feet, drains, or swales shall be provided to ensure drainage away from the structure per 2018 IRC, section R401.3.

Concrete shall have a minimum specified compressive strength as shown in 2018 IRC, Table 402.2. A minimum compressive strength of 2,500 PSI (at 28 days) is required for foundations, basement slabs and interior slabs on grade (except garage floor slabs). Porches, carport slabs, steps and vertical foundation walls exposed to the weather, and garage floor slabs require a min. compressive strength of 3,000 PSI (@28 days).

Per O.U.B.C.C. Amendments to the 2018 IRC, Concrete foundation walls or slabs, if placed directly to the footing, are to be attached to its footing with a minimum #4 vertical steel bar imbedded a minimum 12" into both the footing and the foundation wall and placed 6' o.c. and at every corner (see detail).

Foundation walls shall extend at least 6 inches above the finished grade adjacent to the foundation at all points, per 2018 IRC, section 404.1.6. Where masonry veneer is used, foundation walls shall extend a minimum 4 inches above the finished grade. The area within the foundation wall shall be clear of vegetation, top soil and foreign material removed, per 2018 IRC section 506.2.

Fill material shall be free of vegetation and foreign material. The fill shall be compacted to assure uniform support of the slab, and except where approved, the fill depths shall not exceed 24 inches for clean sand or gravel and 8 inches for earth, per 2018 IRC, section 506.2.1.