nder every house is a foundation, and under most foundations are footings. Most of the time we take

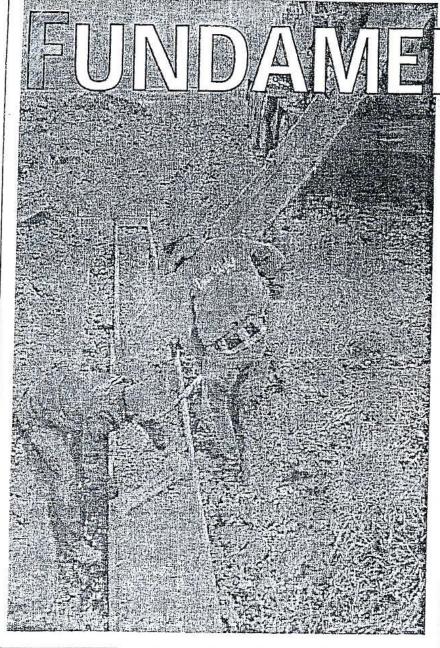
## by Brent Anderson, P.

footings for granted, and usually we can: For typical soils, a common 16- or 20-inch-wide footing can more than handle the relatively light weight of an ordinary house

On the other hand, if you build on soft clay soil or if there's a soft zone under part o your foundation, there can be trouble. A footing that performs well in good soil may not do so well in weak bearing conditions. We don't often see cutright failure, but it's not uncommon to see excessive ettlement when soil bearing capacity is low.

If the whole house settles slowly and evenly, some additional settlement is no big deal; but if settlement is uneven (differe itial settlement), there could be dan age. A frame house with wood siding and drywall interiors can proba-.. bly handle up to 1/2 inch of differential foundation movement, but even 1/4 inch of uneven settling is enough to cause cracks in masonry, tile, or plaster.

It's the unusual situations that cause the most trouble. When the feeting is laid out off-center so the wall misses its bearing, when you encounter a soft zone on site, or when the forting is undersized, the builder faces a ju Igment call. If you think there's a problem ahead, you know you should stop and



If you know your soil bearing capacity, following these practical guidelines will ensure strong footings