

ORIGIN and CAUSE - Sheetrock Cracks

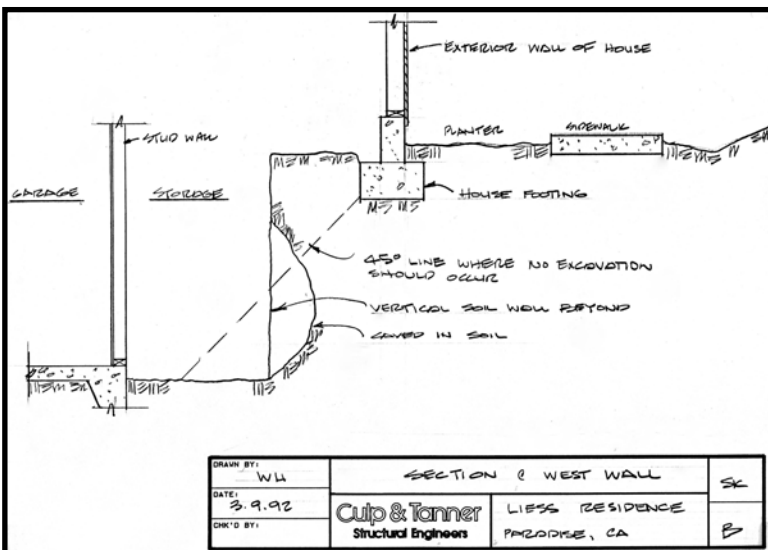


The garage on the lower level of this Paradise home was cut back into the hillside (left side of the photo).

The owner reported sheetrock cracks in the exterior wall and sloughing of the soils in the cut bank under the same wall.



On site measurements showed the bank was cut too low under the exterior wall footing (the bottom of the cut should not have been below a 45 degree dashed line down from the bottom of the footing). Rain water draining off the hill behind the house was seeping under the footing and eroding out the cut bank, causing the wall to settle and crack the interior sheetrock.



DRAWN BY: WU	SECTION @ WEST WALL		SK
DATE: 3.9.92	Culp & Tanner Structural Engineers	LIESS RESIDENCE	
CHK'D BY:		PARADISE, CA	B