

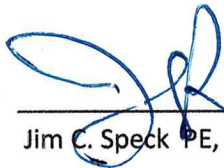


8500 Bethel Road
Shawnee, OK 74804

FLOODPLAIN ANALYSIS
For PROPOSED DECK
LOT 5, BLOCK 6, VINEYARD PH II
(3105 MILLBURY ROAD)

The owner of Lot 5, Block 6, Vineyard Ph II (3105 Millbury) is attempting to construct a deck on the rear of the existing residential dwelling. The area of construction is currently in the 0.1% Special Flood Hazard Area (SFHA). The deck along with a masonry fireplace will be located just below the Base Flood Elevation (BFE). The deck will also have a pergola but the pergola will be above the BFE. The BFE for Rock Creek taken from the City of Norman's Flood Insurance Study (FIS) for Cross Section G (which crossed the lot) is 1034.5. While the deck will be below the BFE, there would be no hydraulic impedence of floodwaters due to the existence of multiple residential fences extending both sides of deck that would alleviate any flow thru the area of the structure. The floodwater will be caused by backwater from Rock Creek. The only impact will be the displacement of the floodwater due to the actual volume of the structural materials.

The volume of the structural materials were calculated and shown on the attached drawing. To offset this impact, soil will be removed from the SFHA adjacent to the existing deck to provide compensatory storage for the floodwaters. As a result, there will be no impact on floodwater and, more importantly the BFE, due to this construction.


Jim C. Speck PE, PLS, CFedS

