



FOX ENGINEERING, INC., Civil Engineers

211 E STREET NW P.O. BOX 666
ARDMORE, OKLAHOMA 73402
PHONE 580-223-2319 FAX 580-223-2492
Email: foxengineering@sbcglobal.net

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Jason Murphy, CFM
Stormwater Program Manager
City of Norman
225 N. Webster
Norman, OK 73069

Re: No Rise Certification for Grimmert Property fence – near Imhoff Creek South of Boyd St.

Mr. Murphy,

The Grimmert family owns the lot at 1020 W. Boyd. Imhoff Creek runs through their property and there is a pedestrian walking trail adjacent to their south property line. The lot is approximately 3.4 ac MOL and Mr. Grimmert would like to build a wooden fence along a portion of his south boundary to prevent pedestrians from cutting through his property. The fence would also serve as an obstacle for dogs. The Grimmert's have an "invisible" (buried) electric fence for their dogs, but dogs not leashed on the pedestrian path often stray out onto their property.

The construction of the proposed fence lies within Zone AE of the FEMA flood map and the Base Flood Elevation (BFE) at the upstream side of the pedestrian bridge, and extending to the proposed fence, is 1146.00 MSL. I performed topography mapping of the area and got an OPUS solution for my base point to correlate the elevations.

The proposed fence style uses horizontal slats and the bottom slat will be placed at least 9.5" above the existing ground/sidewalk. Then the slats will alternate with gaps of 5-1/2" (refer to attached plan and profile sheet). The "fill" that will exist in the floodplain is the volume of the wooden posts and 2 slats between the ground and elevation 1146.00. I calculate that the (12) 4"x6" posts will occupy 4.56 CF, and the slats will be 4.58 CF of volume in the floodplain. A typical wheelbarrow is about 6 CF. Mr. Grimmert will need to excavate the 9.14 CF of soil from the floodplain on the south end of his property and move it out of the floodplain to offset the fence volume.

Construction of the fence according to the outline above, and have shown on attached plan and profile, will result in negligible rise of the BFE on this property and any adjacent properties. The gaps in the slats will allow water to pass, and the total length of the fence is only a small fraction of the total floodplain width so water would still pass around each end, as before the fence.

Sincerely,

Joe Howell, PE
Fox Engineering, Inc.

