

Section 19 Flooding

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Ludden Lane is an existing 14- to 18-foot-wide gravel road that will be upgraded to accommodate construction of the Canton Mountain Wind Project (Project). Approximately 934 linear feet of existing portions of Ludden Lane are located within a Federal Emergency Management Agency (FEMA) mapped 100-year floodplain. This floodplain is associated with adjacent Ludden and Fletcher Brooks, which are described in more detail in Section 7 and Attachment 7-1 of this application. Figure 19-1 also shows the existing 100-year floodplain in relation to Ludden Lane and the proposed Project.

Project engineers have designed the upgrades to the access road within this 100-year floodplain area to ensure no net loss of flood storage capacity by carefully designing the grading plan so there is no net loss of flood storage capacity as the result of the Project. The volume calculations show 260 cubic yards of cut and 159 cubic yard of fill resulting on a small net cut of 101 cubic yards which positively affects the floodplain in that area. In addition, Canton Mountain Wind, LLC is replacing existing damaged and underperforming culverts and existing bridges along Ludden Lane as part of the Project. This will facilitate cross drainage under the road to better utilize flood storage capacity east of Ludden Lane following construction.



Figure 19-1 Canton Mountain Wind Project Proximity to FEMA 100-Year Flood Zones