

Section 19 Flooding

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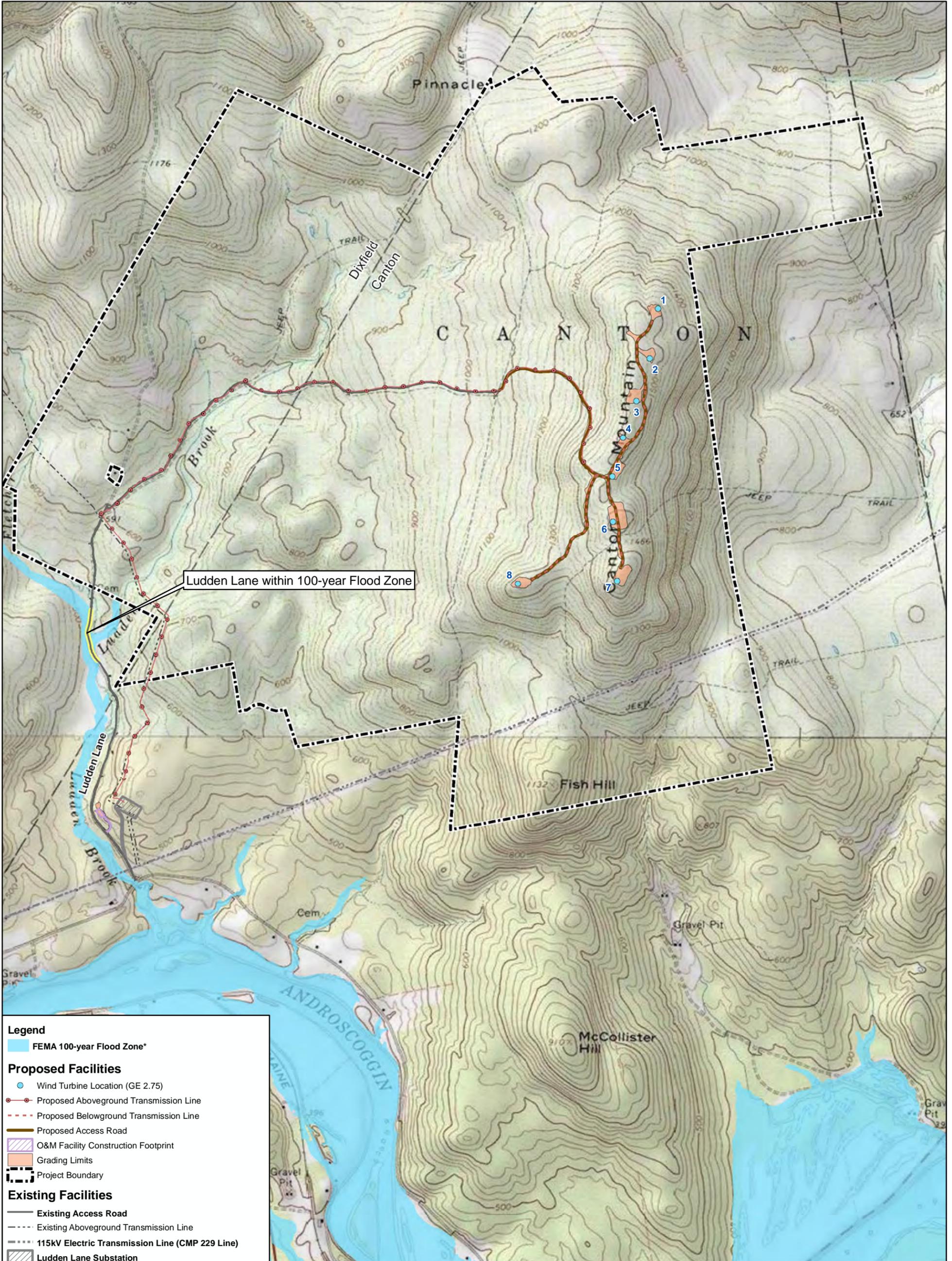
FIGURE

Figure 19-1 Canton Mountain Wind Project Proximity to FEMA 100-Year Flood Zones19-2

19.0 FLOODING

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. 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.



- Legend**
- FEMA 100-year Flood Zone*
- Proposed Facilities**
- Wind Turbine Location (GE 2.75)
 - Proposed Aboveground Transmission Line
 - Proposed Belowground Transmission Line
 - Proposed Access Road
 - O&M Facility Construction Footprint
 - Grading Limits
 - Project Boundary
- Existing Facilities**
- Existing Access Road
 - Existing Aboveground Transmission Line
 - 115kV Electric Transmission Line (CMP 229 Line)
 - Ludden Lane Substation

* An area designated as within a "Special Flood Hazard Area" (or SFHA) on a Flood Insurance Rate Map. This is an area inundated by 100-year flooding for which Base Flood Elevations or velocity may have been determined. No distinctions are made between the different flood hazard zones that may be included within the SFHA. These may include Zones A, AE, AO, AH, A99, AR, V, or VE. In this particular area, only Zones A and AE are present.

SOURCE: Federal Emergency Management Agency (FEMA)

0 0.25 0.5 Miles



Figure 19-1
Proximity to FEMA 100-Year Flood Zones

Canton Mountain Wind Project
Canton and Dixfield, Maine

December 2011

