

Closing the Fiber Gap on the Big Island

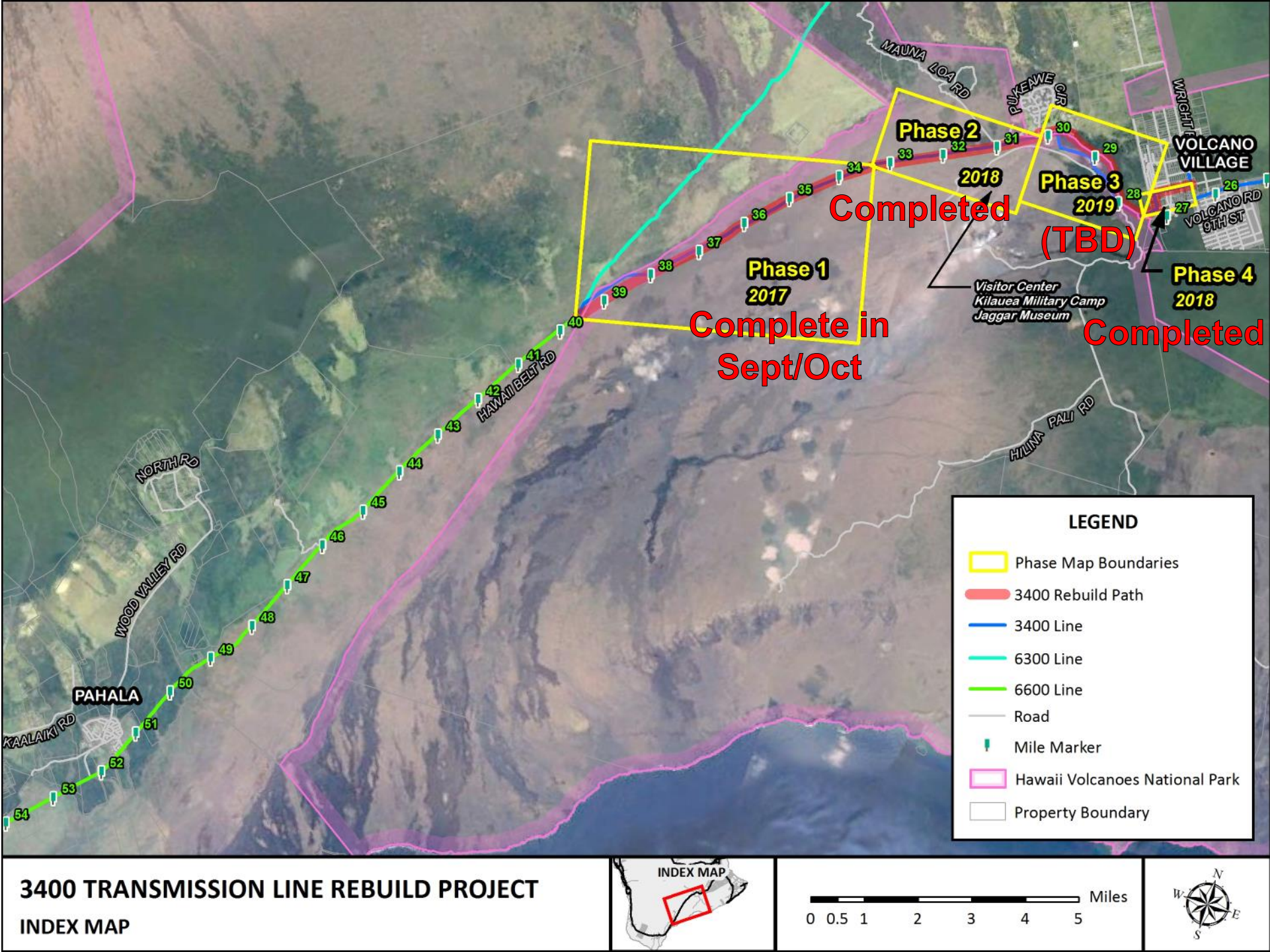
3400 34.5 kV Line Rebuild & Relocation

July 15, 2020 Briefing to Broadband Hui

(Update to the November 22, 2016 Broadband Council Briefing)



4 Phases



Project Benefits

- ◆ **Improved reliability** for ~5,500 customers served by line (Kilauea Military Camp/Volcano, Wright Road, Royal Hawaiian Estates, Orchid Isle, Mountain View, Kurtistown).
- ◆ **Address safety concerns** with current pole line location.
 - Original line from 1950's
 - Terrain is unsafe with may deep crack and crevices with limited or no access roads to poles.
- ◆ **Enable telecom fiber loop around the island** by strengthening pole lines (Phase 1 & 2)
 - Currently a gap in the Southern loop.
 - September 2013 - Issue with fiber in Waikoloa caused a 20 hour telecommunication outage from Waikoloa to Pahala, County sent out police and fire department to patrol areas to ensure public health and safety.
 - Communication loop can be completed with Phase 1 and Phase 2; completion of Phase 3 would provide improvement in reliability



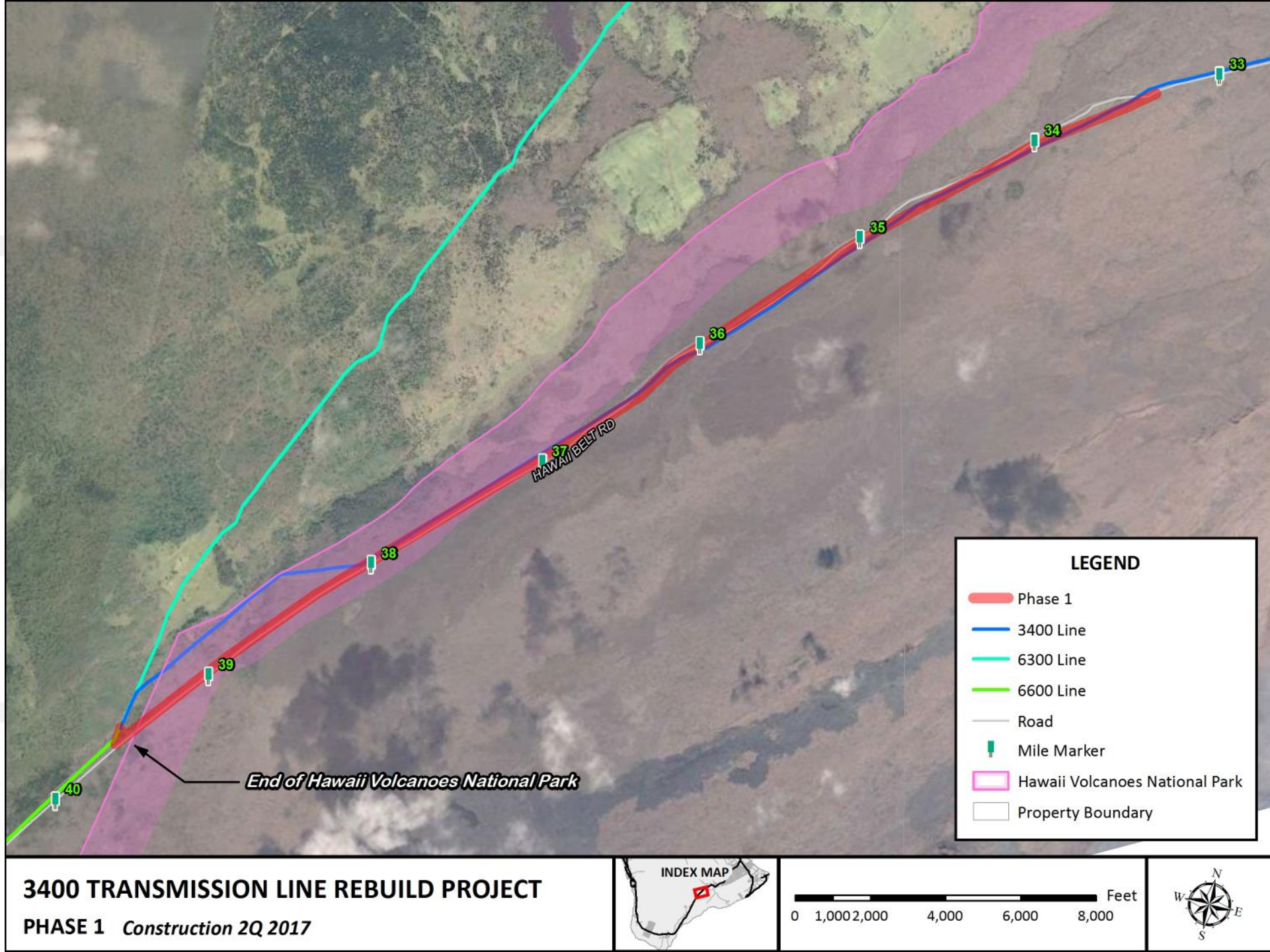
Project Update

- ◆ HELCO and Hawaii Volcanoes National Park (HVNP) filed their respective Environmental Assessments (EA). EA Approval received and HVNP processed HELCO's special use permit needed to begin Phase 1 & 2 construction and secure rights-of-way permits.
- ◆ 3 of the 4 phases will be completed by end of 2020. Completion of Phase 1 in 20202 should enable carriers to close the gap
- ◆ Phase 3 will take longer due to land issues, permitting and approvals.



Phase 1:
~ 50%
Complete

Full
Completion in
Sept/Oct 2020



3400 TRANSMISSION LINE REBUILD PROJECT
PHASE 1 Construction 2Q 2017

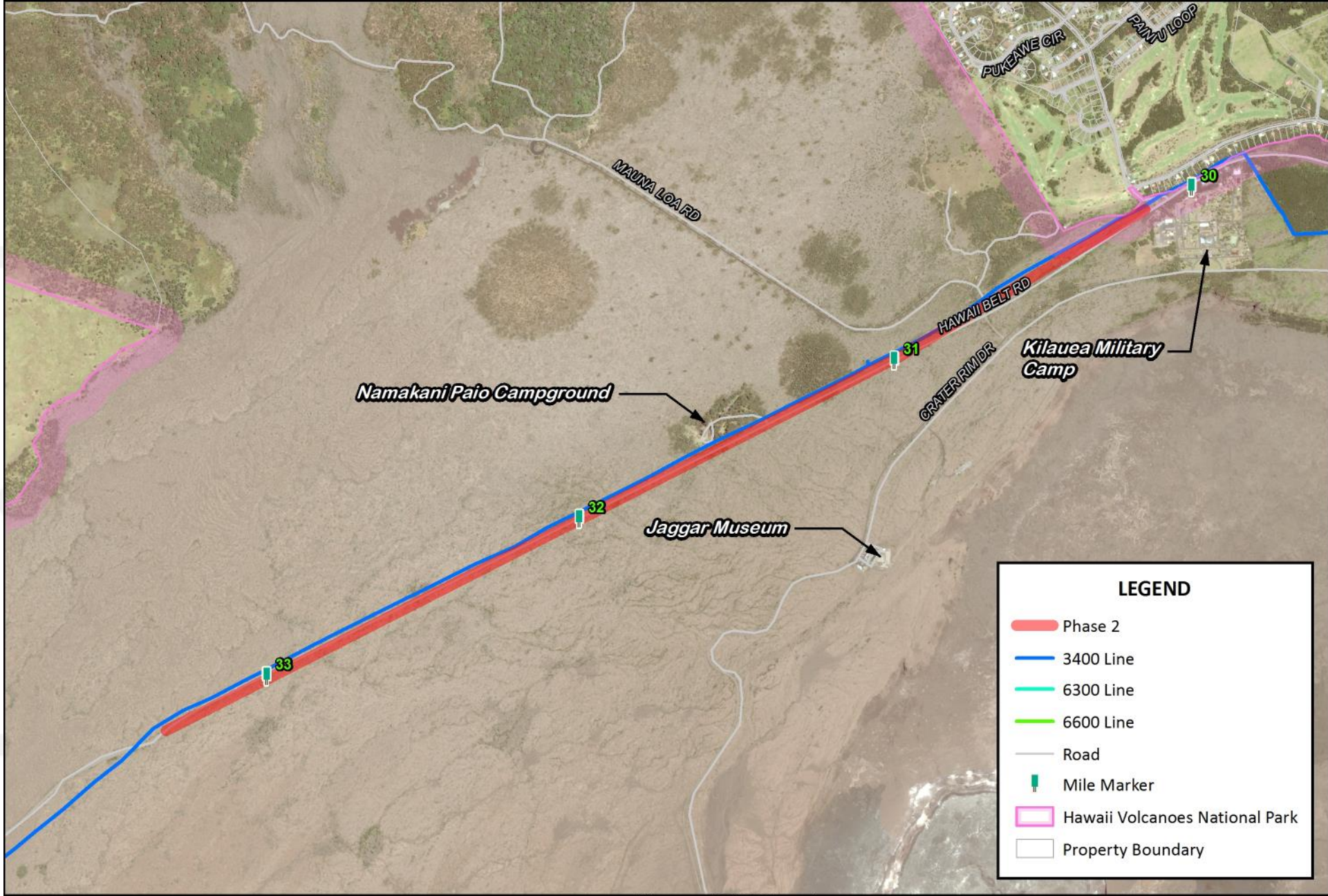


0 1,000 2,000 4,000 6,000 8,000 Feet

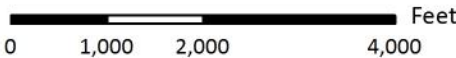


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**Phase 2:
Completed**



3400 TRANSMISSION LINE REBUILD PROJECT
PHASE 2 Construction 2018



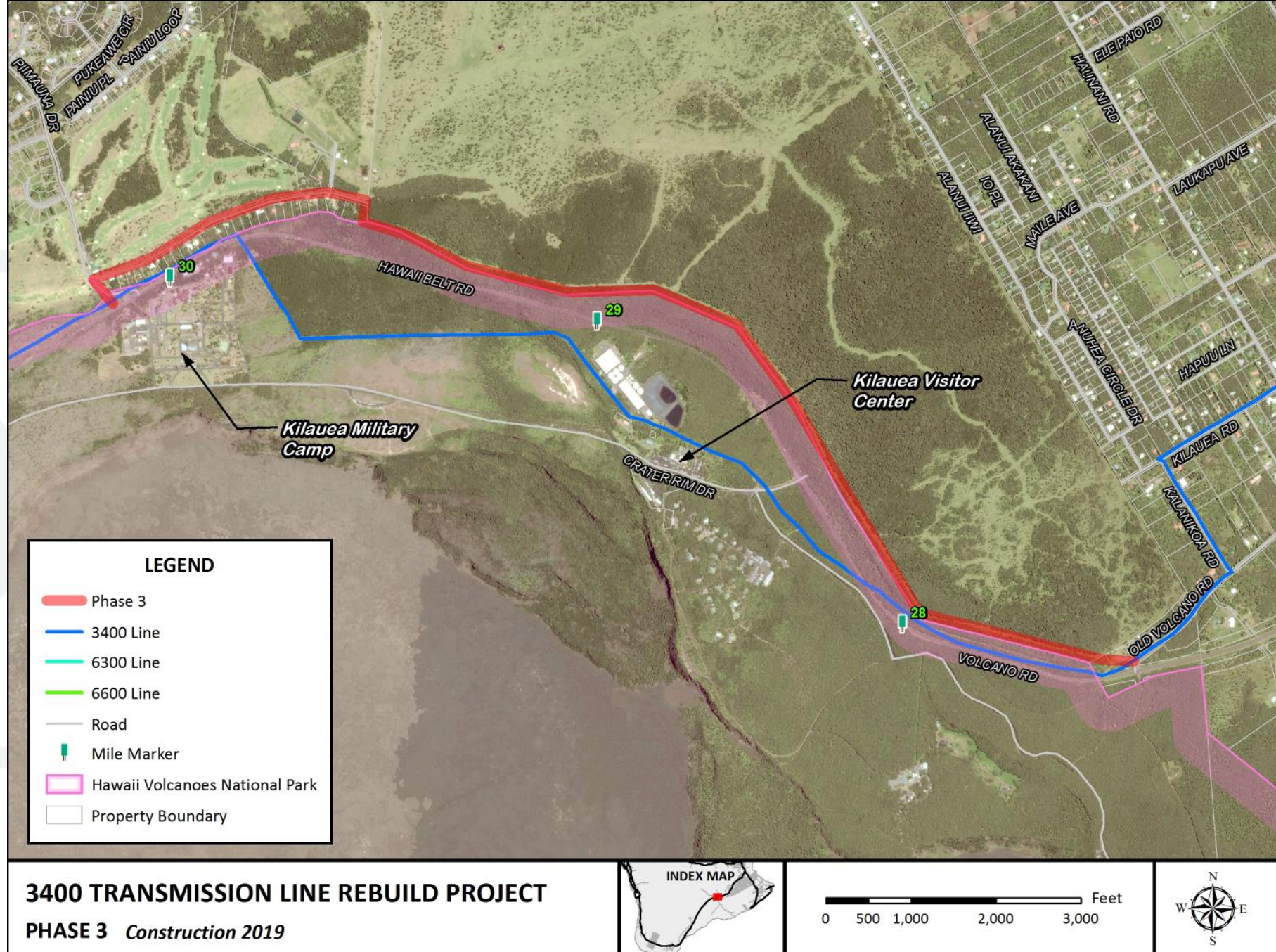
Phase 3: (TBD)

Discussions with KSBE
for use of land adjacent
to HVNP on the North
side of highway.

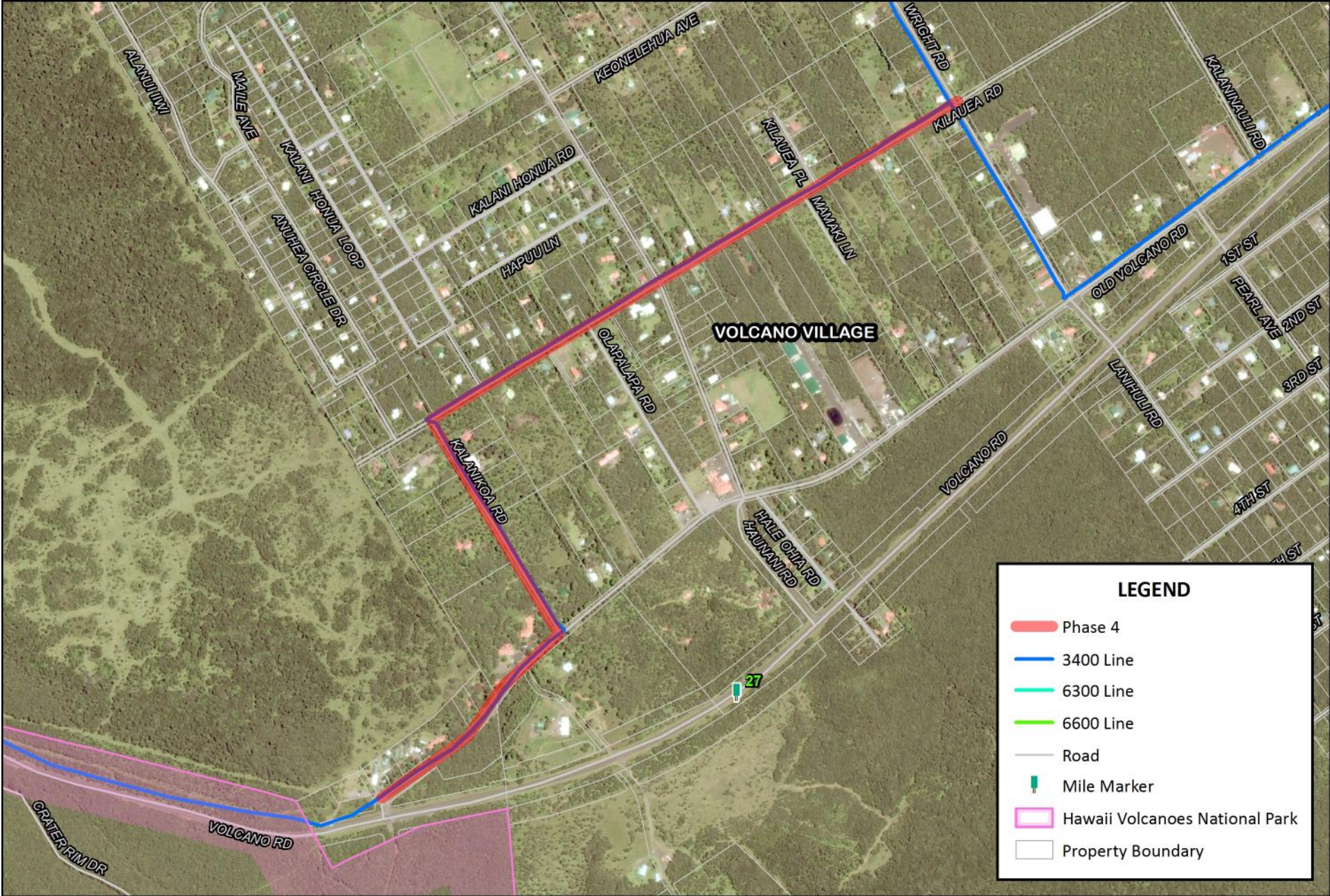
Will require an EA

May require a Habitat
Conservation Plan &
other permits

Will require PUC
approval



Phase 4:
Completed



3400 TRANSMISSION LINE REBUILD PROJECT
PHASE 4 Construction 2018