

**From:** [Soriano, Natasha A](#)  
**To:** [Laura Mau](#); [Brian Takeda](#); [James Yamamoto](#); [Stacy Armstrong](#)  
**Cc:** [Smith, Donald L](#)  
**Subject:** FW: Queen Ka'ahumanu Hwy Ph 2 MOA Stipulation 15 Terrain Model - Digital Model Review  
**Date:** Friday, April 20, 2018 9:01:13 AM

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FYI

**From:** Gmirkin, Richard [mailto:rick\_gmirkin@nps.gov]  
**Sent:** Thursday, March 29, 2018 11:08 AM  
**To:** Soriano, Natasha A <natasha.a.soriano@hawaii.gov>  
**Cc:** Aric Arakaki <aric\_arakaki@nps.gov>; Mandy Johnson <amanda\_johnson@nps.gov>  
**Subject:** Queen Ka'ahumanu Hwy Ph 2 MOA Stipulation 15 Terrain Model - Digital Model Review

Aloha Natasha,

Please excuse the delay on providing comments on the Digital Model. Below are some general comments and questions:

Without context, it is difficult to ascertain the purpose of this map. It would have been beneficial for all reviewers to have a narrative that explains what is the desired outcome by the NHO participants that requested this MOA stipulation. My understanding is that it is to be a physical 3D model and digital version intended to depict the physical and cultural landscape of Kekaha highlighting the transportation system in prehistoric/historic times. I believe the purpose(s) and format need to be further clarified as well as a clear intent of what information is being portrayed. This will help guide what should be included on this map and how we review.

What are the sources for trail location information? There are several trail sections that appear to have come from older maps that may not have been correct.

Is the map intended to be of a particular time or will there be some way to differentiate between ancient foot trails, historically modified trails to accommodate horse and mule, and kingdom built trails? Will this show the evolution of the transportation system from ancient to historic times? This is not clear, again because there are no narrative guidelines describing the NHOs desire. The current draft is a mix of ancient and historic trails and the modern Queen Kaahumanu Hwy. There needs to be a way to distinguish between the different types of trails.

Trail networks within an ahupua'a and the overall region serve a specific function. Currently the map only depicts a minimal representation of actual trails, habitation areas, farming zones (Kona Field System), coastal settlements and other natural resources gathering zones. If there is a reason for some being shown and not others then it should be clear why.

Please allow for more input from NHO signatories on this stipulation so that the desired product is delivered. For the next round of reviews, please provide a narrative that provides clear purpose for the map so that all reviewing are on the same page.

Mahalo for your consideration

Rick

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