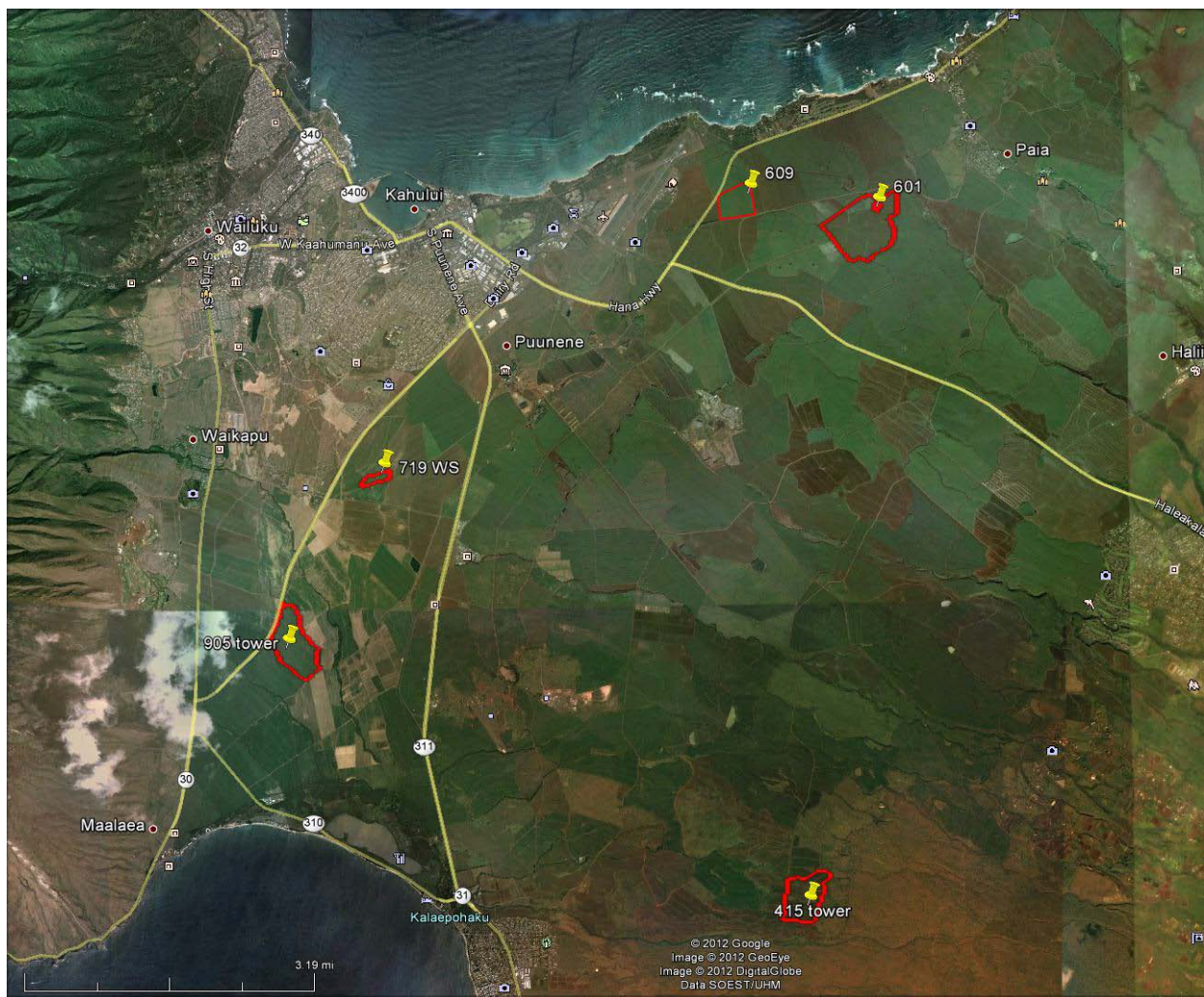


Attachment 10 – Area of Operations

A: Original submittal

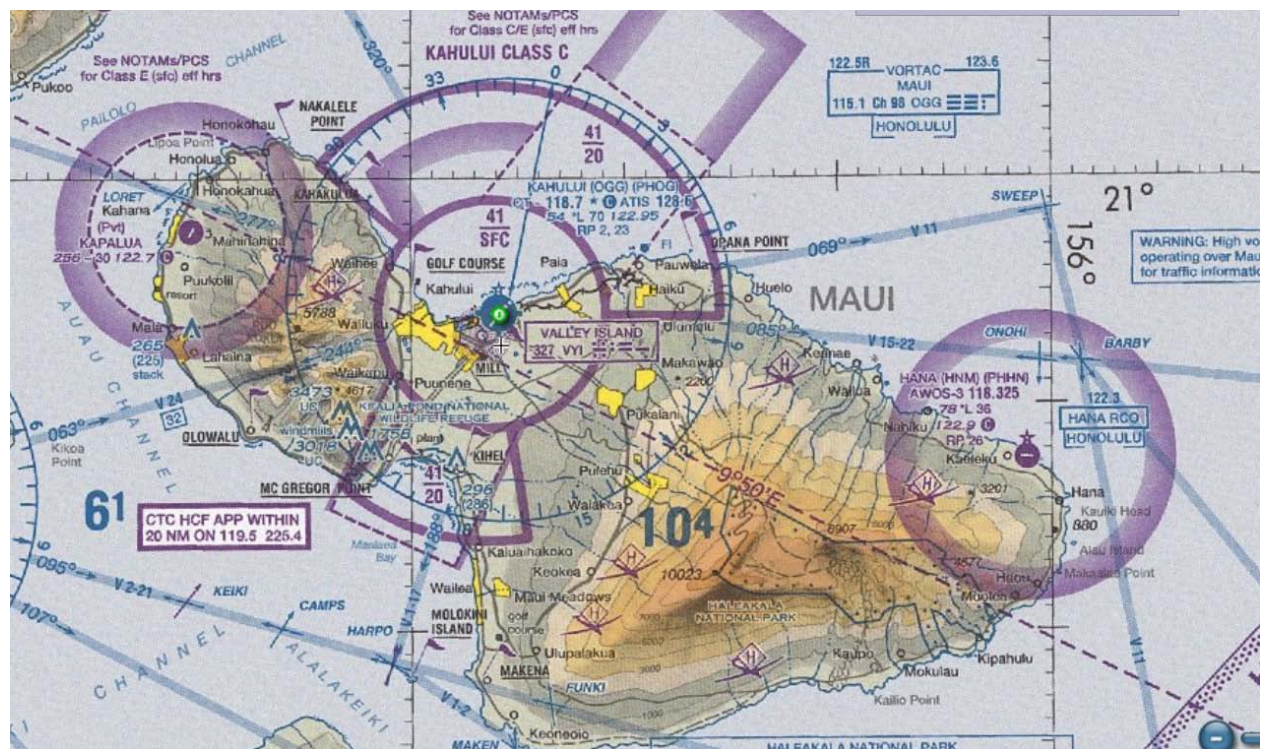
USDA-ARS will be conducting photography missions over a series of agricultural fields. The following images show the field and the related sectional. All operations will be confined to the fields outlined in the pictures.

- 1) Field Survey – The following image shows five fields that will be surveyed by the UAS. Location 609, 601 and 719 are within the Class C airspace. Location 905 and 415 will be under the Class C airspace.

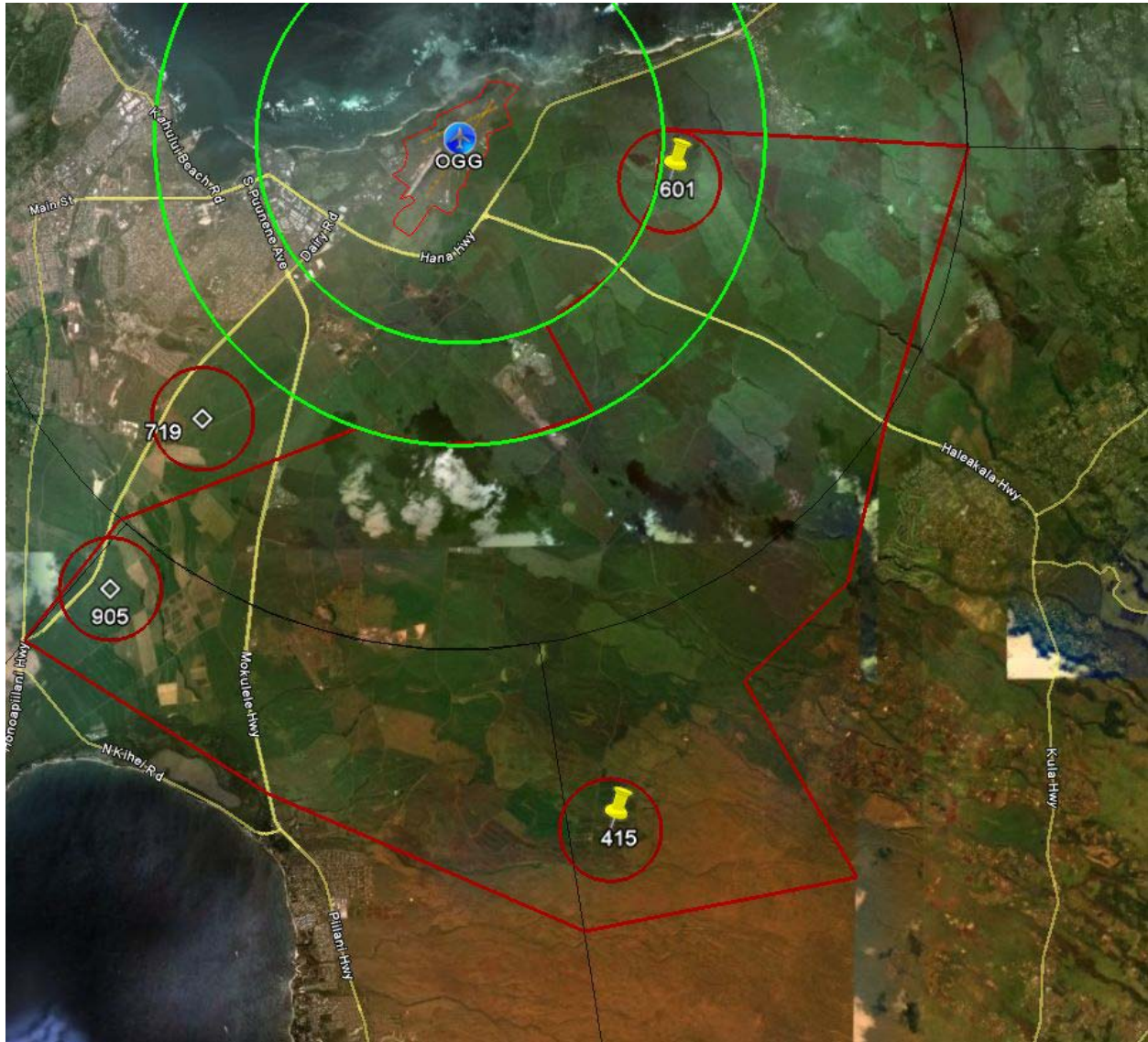


- 2) Canal Survey – The picture below depicts the entire farm area. Within the farm are a series of canals that require routine surveillance to detect leaks, blockages and other structural issues. Part of this farm is within the Class C airspace and part of it is under the Class C airspace.





B: Revised Area of Operations based on Byron Chew's map (with notes)(8/23/2012)



- 1). Area 609 east of the airport is not feasible.
- 2). Area 601 ops will be allowed only within the confines of the defined area and restricted to 0600 - 0900 time frame.
- 3). If Area 719 UAS operations set off TCAS (Traffic Collision Avoidance System) alerts in overflying traffic, then Kahului ATCT (Air Traffic Control Tower) will need to restrict or cancel UAS operations at this location.
- 4). Reference the OPAREA: With the exception of a portion of Area 601, there will be no UAS operations

allowed within 2 miles east of the airport and within 3 miles from SE to the SW.

5). UAS operations will not be allowed during runway 20 & 23 operations (south flow) because of controller workload.

6). UAS operations will not be allowed when special or unusual air operations are being conducted --- for example, Green Harvest ops.

7). Notifications:

- Advance 24 hour notification to the Maui Tower of UAS operation. Give location and launch time.
- Call Tower by phone 15 minutes before launch for approval and transponder code. Verify launch time, location and duration.
- Call Maui Tower on frequency 118.7 prior to takeoff.
- If the UAS is operating before the Tower opens (1600Z), notify the Tower on frequency 118.7 when Tower opens.
- Advise Tower when Operations are completed.

8). Per FAA Notice JO 7210.766 (Unmanned Aircraft Operations in the National Airspace System (NAS)) para 8a, a signed Letter of Agreement between the USDA and Maui ATCT detailing approved separation procedures between manned and unmanned aircraft when operating within Maui's Class C airspace will be a requirement of the approved COA.

Map adding Field 917 as a substitute for Field 601

