

# *HAWAII INSPECTION GROUP*

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Aloha John,

We have scanned the designated area of concrete floor at 123 Main Street, in Kahului, Hawaii, and the following is our findings.

## **SCOPE**

To scan the designated areas of concrete floor for the purpose of identifying approximate locations of anomalies consistent with structural steel and/or conduit piping prior to core drilling a 2 - 3" hole in the floor for the installation of electrical conduit.

## **METHOD**

We used a GSSI Structure Scan Mini radar scanner at settings congruent with the estimated concrete thickness, and mapped the areas with chalk on the installed carpeting to illustrate where any anomalies were detected within the concrete. It should be noted that parallel structure detections closer than 3.75" from any right-angle vertical surface cannot be made due to the radar antennae location inside the scanning unit. We attempt to interpret our detections in good faith to locate any anomalies within the scanned areas, but cannot guarantee a lack of detection(s), nor the exact location of those detections, as these are limited to the capabilities of the technology used, and can be influenced by conditions beyond our control.

## **OBSERVATIONS**

We found several anomalies running North-South in the concrete floor area that appeared consistent with structural steel (rebar, etc.), and these were detected at the following distances from the installed sheetrock wall at the East side of the scanned area, and at the following depths listed:

2 ½" from the sheetrock wall, @ approximately 2 1/8" deep from the surface of the installed carpeting on the floor in the area.

6 ½" from the sheetrock wall, @ approximately 2 1/8" deep from the surface of the installed carpeting on the floor in the area.

13" from the sheetrock wall, @ approximately 2 1/8" deep from the surface of the installed carpeting on the floor in the area.

19" from the sheetrock wall, @ approximately 2 1/8" deep from the surface of the installed carpeting on the floor in the area.

Locations of these detections were marked on the carpeting with chalk.

### **PHOTO 1 – North/South detections**



We also found several anomalies running East-West in the concrete floor area that appeared consistent with structural steel (rebar, etc.), and these were detected at the following distances from the exterior concrete wall at the North side of the scanned area, and at the following depths listed:

4" from the concrete wall, @ approximately 2 ¾" deep from the surface of the installed carpeting on the floor in the area.

7 ½" from the concrete wall, @ approximately 2 ¾" deep from the surface of the installed carpeting on the floor in the area.

12 ½" from the concrete wall, @ approximately 2 3/8" deep from the surface of the installed carpeting on the floor in the area. This anomaly appeared to end at a point of approximately 6 ½" from the sheetrock wall on the East side of the scanned area. (also see photo 1)

18 ¾" from the concrete wall, @ approximately 3 1/8" deep from the surface of the installed carpeting on the floor in the area.

Locations of these detections were marked on the carpeting with chalk.

## **PHOTO 2 – East/West detections**



## **CONCLUSIONS**

It is our professional opinion that there were anomalies detected within the scanned areas that appeared consistent with structural steel rebar and possible electrical conduit. We estimate our detections to be within +/- 1".

## **RECOMMENDATIONS**

We recommend that any coring of the concrete material in the designated area be conducted in areas other than marked, and taking into account that we estimate our detections to be within +/- 1". If metal is suspected in the area to be cored, it is recommended that the area be chip-hammered to verify type and location prior to coring.

Please let us know if you have any questions regarding this reporting, or if we can be of further assistance to you.

Bud Stanton, member  
Elite Inspections & Consulting, LLC for  
Hawaii Inspection Group, Inc.