### MAKENA BEACH Survey Dates

<table>
<thead>
<tr>
<th>Date</th>
<th>MAKENA BEACH VMAK</th>
<th>Survey Dates</th>
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<tbody>
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<td>1/2/95</td>
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<td>1/2/95</td>
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<td>1/2/95</td>
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<td>6/29/1999</td>
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#### Date 1st used:
- 1/2/95
- 9/3/95
- 2/17/96
- 8/10/96
- 1/7/97
- 7/8/97
- 1/15/98
- 7/7/98
- 1/11/99
- 6/29/99

#### Description:
- **RP#1**: PK nail in "V" of tree across road
- **RP#2**: PK nail on LNDWD curb of median
- **RP#3**: PK, tilted top/center of wood post
- **RP#4**: PK on post, N end of NO PKG sign
- **RP#5**: PK nail on basalt boulder
- **RP#6**: PK on low basalt rock border on dune
- **RP#7**: PK nail on flag, S side of palm
- **RP#8**: Center of survey BM on basalt boulder

#### GPS:
- **MAK1**: Online backbeach GPS1 (1/2/95)
- **MAK2**: Online makai on beach GPS2 (1/2/95)
- **GPS1**: GPS Position Longitude Latitude Elevation (meters above local tidal datum)
  - MAK1: -156.442368 20.646976 7.614
  - MAK2: -156.442383 20.648304 2.138

#### Notes:
- Primary GPS for elevation control: GPS1, MAK1, RP6 (7/97) = 7.614
- Primary reference point: RP6/BRP = 7.614

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**Heading S on Wailea Alanui Rd/ Makena Alanui Rd, turn R onto Makena Rd. pass public boat ramp. Unload at turnaround at end of street, then park across from Keawali church at public restrooms**

**Kiawe tree across road (RP1) and wooden post at beach access (RP3)**

**FRP palm (RP7) and tall stadia rod on BRP (RP6) on low rock border**

**Seaward corner of restroom south of line**

**PK nail on orange flag in apex of "Y" kiawe tree across Makena Rd from beach access**

**PK nail on orange flag on landward yellow curb at S end of median defining beach access turn-around**

**PK nail on orange flag on tilted top/center of wooden post on S/LNDWD side of break in metal cable "fence"**

**PK nail on tilted top/center of wooden post at N end of large brown "NO PKG/Loading Zone Only" sign at beach access turnaround**

**PK nail flush with low basalt rock border. Nail is 6" from landwd edge of border and 7 paces E of fencepost tied to water spigot**

**PK nail on flag at 1 m in S/LNDWD-ish side of 2nd palm from N end of vegetated dune area. Palm curves SWD.**

**Center of "Seibu Hawaii Survey Marker" on rock 11m LNDWD of dead log/snag and 18m SWD of "PUBLIC...RIGHT of WAY" sign**

*Primary GPS for elevation control; GPS1, MAK1, RP6 (7/97) = 7.614
**Primary reference point; RP6/BRP = 7.614