### VNKP - North Kaanapali (North Black Point)

**Survey Dates**
- 9/6/95
- 2/19/96
- 8/13/96
- 1/9/97
- 7/7/97
- 1/13/98
- 6/11/98
- 7/8/98
- 1/13/99
- 6/28/99

#### VNKP1-1

<table>
<thead>
<tr>
<th>Date</th>
<th>RP</th>
<th>PK Details</th>
<th>Bearing</th>
<th>Targets</th>
</tr>
</thead>
<tbody>
<tr>
<td>9/6/95</td>
<td>RP1</td>
<td>PK nail on flag on N side of path</td>
<td>BRP</td>
<td>BRP</td>
</tr>
<tr>
<td>9/6/95</td>
<td>RP2*</td>
<td>PK nail in 3rd crack</td>
<td>FRP</td>
<td>FRP</td>
</tr>
<tr>
<td>1/9/97</td>
<td>RP2a</td>
<td>PK nail in crack near bathroom</td>
<td>*brpnew/rp2a</td>
<td>BRP</td>
</tr>
<tr>
<td>5/1/00</td>
<td>RP6</td>
<td>PK in 3rd tree mauka of beach on south side</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>5/1/00</td>
<td>RP7</td>
<td>PK in 2nd tree mauka of beach on north side</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>5/1/00</td>
<td>RP8</td>
<td>PK in palm tree closest to beach on south side</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

#### VNKP1-2

<table>
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<tr>
<th>Date</th>
<th>RP</th>
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<th>Targets</th>
</tr>
</thead>
<tbody>
<tr>
<td>2/19/96</td>
<td>RP3**</td>
<td>PK nail in &quot;V&quot; of kiawe tree</td>
<td>-</td>
<td>-</td>
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</tbody>
</table>

#### VNKP1-3

<table>
<thead>
<tr>
<th>Date</th>
<th>RP</th>
<th>PK Details</th>
<th>Bearing</th>
<th>Targets</th>
</tr>
</thead>
<tbody>
<tr>
<td>2/19/96</td>
<td>RP4</td>
<td>Top/center of 12th square fence post</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>2/19/96</td>
<td>RP5**</td>
<td>PK nail in &quot;L&quot; of kiawe tree</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

#### GPS Positions
- **LL8C**: Longitude: -156.691910, Latitude: 20.936769, Elevation: 4.412
- **NKP2**: Longitude: -156.692520, Latitude: 20.936659, Elevation: 3.344

**Primary GPS for elevation control**
- **GPS1, FRP1, NKP2** = 3.344

**Primary reference point**
- Line 1: RP2/FRP = 3.344
- Line 2: RP3/FRP = 4.154
- Line 3: RP5/FRP = 3.762

### Notes
- Cement path was removed. VNKP1-1 was moved 2 meters to the north and new RP's (#6-8) were established.
- ~56 cm discrepancy between GPS surveyed points and EDM surveyed points. Potential problem.

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**LOCATION:**
- Heading E on Route 30. Right onto Puukoli'i Road at "Kaanapali Resort" sign. Follow drive to right; enter Ali'i Kahekili Nui-ahumanu Beach Park

**LINE-UP:**
- Seaward of RP?
- Base of fence?

**Horiz. Ref.**
- N/NE peak of roof of pavilion

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**NOTES:**
- 7/7/97 GPS Survey. GPS1 = LL8C. GPS2 = RP2 = NKP2
- 5/1/00 Cement path was removed. VNKP1-1 was moved 2 meters to the north and new RP's (#6-8) were established.