ATTACHMENT NO. 22

ENGINEERING DESCRIPTION OF EXISTING STRUCTURES

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During the 2009 beach renourishment project, the 190-foot rock groin which was located north of FDEP monument R-38 was removed.

One 165-foot rock groin structure is within the proposed fill template in Lido Key located near R-38.4. The structure has been periodically buried and exposed by sand placement and natural beach processes. No adverse effects have been observed, and some benefit of sand retention in the immediate area is apparent from a review of past photography. Asbuilt drawings are not available but aerial photographs from 1998, 1999, 2000, 2001, 2005, 2012 and 2014 are provided with this attachment. The beach adjacent to the groins is being monitored annually. Based on the recent history, no change to the structure is warranted. The applicant proposes to leave the existing structure in place to be buried by the beach fill as previous projects have done.

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