

## Goleta Beach Emergency Repair / Protection Photographic Timeline

- Nov 2015: In preparation for anticipated El Nino storm season, the California Coastal Commission (CCC) issued an Emergency Coastal Development Permit (ECDP) to install and maintain a 2,400 foot sand berm through Memorial Day weekend 2016



*Berm at central beach area (Dec 18)*

- Jan through Feb: Central parkland had been eroded five to ten feet from the original lawn edge due to high tides and strong surf even though sand berm had been continually maintained. By Feb 19<sup>th</sup> Sand available for berm maintenance noted to be at extremely low levels due to high tides and strong surf.



*Central beach area (Feb 16)*

- First Week of Mar: Erosive gaps and sinkholes started to appear in the central park area due to high tides and strong surf



*Sinkholes and erosion aspect east (Mar 7)*



*Sinkholes and erosion aspect west (Mar 7)*





*Soil fill line (still 5 to 10 feet landward of land edge prior to Dec 2015)*



- Mar 9: California Coastal Commission (CCC) issued an emergency permit to repair sinkholes and erosive gaps and install temporary protections
- Mar 14: Contractor commenced repairs to erosive park area



*Soil backfill and vertical fabric filter layer install (Mar 14)*

- Mar 15: High tides and strong surf conditions were undercutting and removing the previous days work.





*Layer of filter fabric laid open (Mar 17)*





*Layer of filter fabric being filled with earth (Mar 31)*





*Layered and filled filter fabric cells (Mar 23)*



*Repaired area facing east (Mar 31)*





*Repaired area facing northwest (Mar 31)*





*Repaired lawn area facing east (Apr 25)*





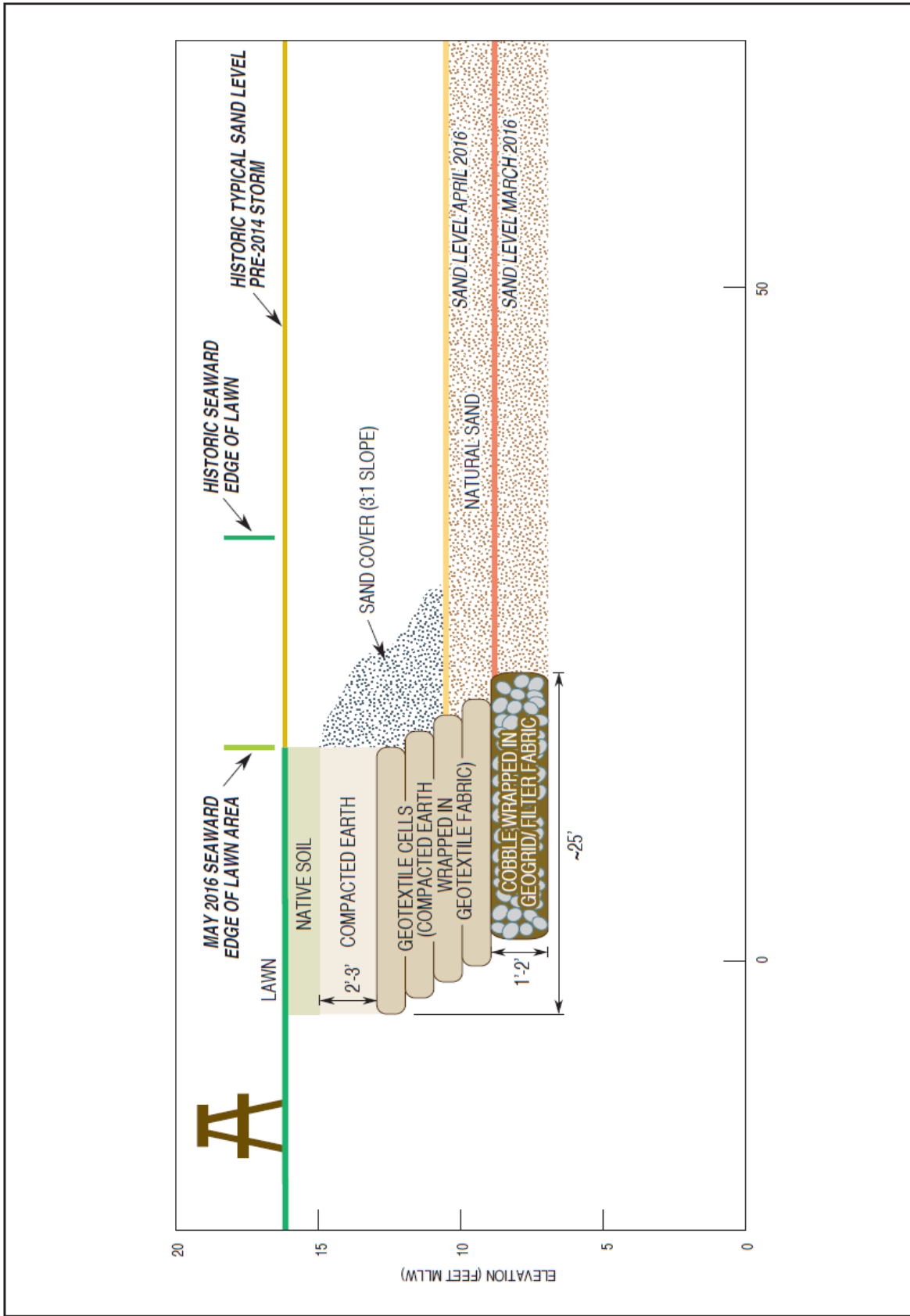
Repair area facing east from east end point of existing permitted revetment (under CDP 4-14-0687)





Repair area facing east from east end point of existing permitted revetment (under CDP 4-14-0687)





**Goleta Beach Park Emergency Restoration Project  
Geotextile Cell Conceptual Cross Section**

