

Works Completed during the last week.

Week 218: Monday 25th January to Friday 29th January 2010.

- With neap tides, work returned to the beach this week with the construction of the two groynes at the revetment pedestrian step locations.
- Already installed are the groyne sheet piles and timber pile posts along with the diamond rotary drilling of the post sockets through the revetment so work was concentrated on the timber element of the groynes and finishing the posts. The short posts through the revetment are fixed using a galvanised adaptor bolted to both the revetment and the timber post. A timber waler is placed between the timber piles and steel sheet piles previously driven into the beach and bolted to connect the two together to act a single element. Treated planks are then bolted to the posts to form the completed groyne.



Revetment groyne post being installed.



Timber waling connecting groyne post to steel sheet piles.

- On the promenade work continued on the pouring of the in situ exposed aggregate concrete pavement slab with a total of 6 pours being carried out at the northern end of the works.
- Concrete expands and contracts with changes in temperature with joints in the concrete slab being required to facilitate this movement. The layout of these joints requires careful planning to avoid the concrete cracking uncontrollably with random undesirable patterns. In order to force the concrete to crack and form a joint in a desired location a saw cut approximately 20mm deep is cut into the slab within a day or two of the concrete being poured. This provides a weak line in the concrete and when contracting will force the slab to crack to full depth of pavement and form a joint in this location. As the pavement has been progressing these saw cuts have been carried out to form a uniform pattern to the pavement slab. In order to facilitate expansion, a compressible filler is placed next to the formed edge of a completed slab prior to its neighbour being cast. For every formed expansion joint there are 3 'induced' contraction joints approximately 5 metres apart. As the slab progresses the joints are sealed at the surface with a flexible sealant.



Groyne boarding being bolted to posts..



Promenade pavement slab being poured.

Further information about the scheme
can be viewed at
www.wyrebc.gov.uk
www.cleveleys-seawall.co.uk

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