

## ENGINEERING THAT WORKS FOR YOU

### PORTS, HARBOURS & SEA DEFENCES TOWN WALL COAST PROTECTION SCHEME

Contract	Value	Location
20 Weeks	£500,00	Hartlepool

#### Client

**Hartlepool Borough Council**

Civic Centre

Hartlepool

TS24 8AY

#### Engineer:

**Hartlepool Borough Council**

Engineering Consultancy

Bryan Hanson House

Hanson Square

Hartlepool

TS24 7BT



### Project Description:

The Town Wall is a length of coast protection and flood defence structure located parallel to the Port Authority (PD Teesport) Navigable Channel on the inner approaches to Victoria Harbour.

The wall was originally built in the 1300's and has the designation of Scheduled Ancient Monument (SAM).

Recent lowering of the foreshore in front of the wall has led to concerns over the long term stability of the defences.

The Town Wall structure was determined as being at increasing risk of overtopping and failure due to wave action during storm events. The design solutions provided were severely constrained by the Scheduled Ancient Monument Status of the Town Wall Structure.

The first stage of the works completed by Seymour Civil Engineering was split into 2 elements:

#### Element 1

Reinstatement / rebuild of 3 x 40m long groyne structures in insitu concrete.

#### Element 2

Provision of approximately 180m of new insitu concrete toe protection to the existing Town Wall structure.

The works were all within the range of tidal water. A method of working was devised to allow safe working during periods of low tides.

Monitoring of the sea and weather conditions was maintained to ensure that heavy seas did not adversely affect or delay timely completion of the project.

