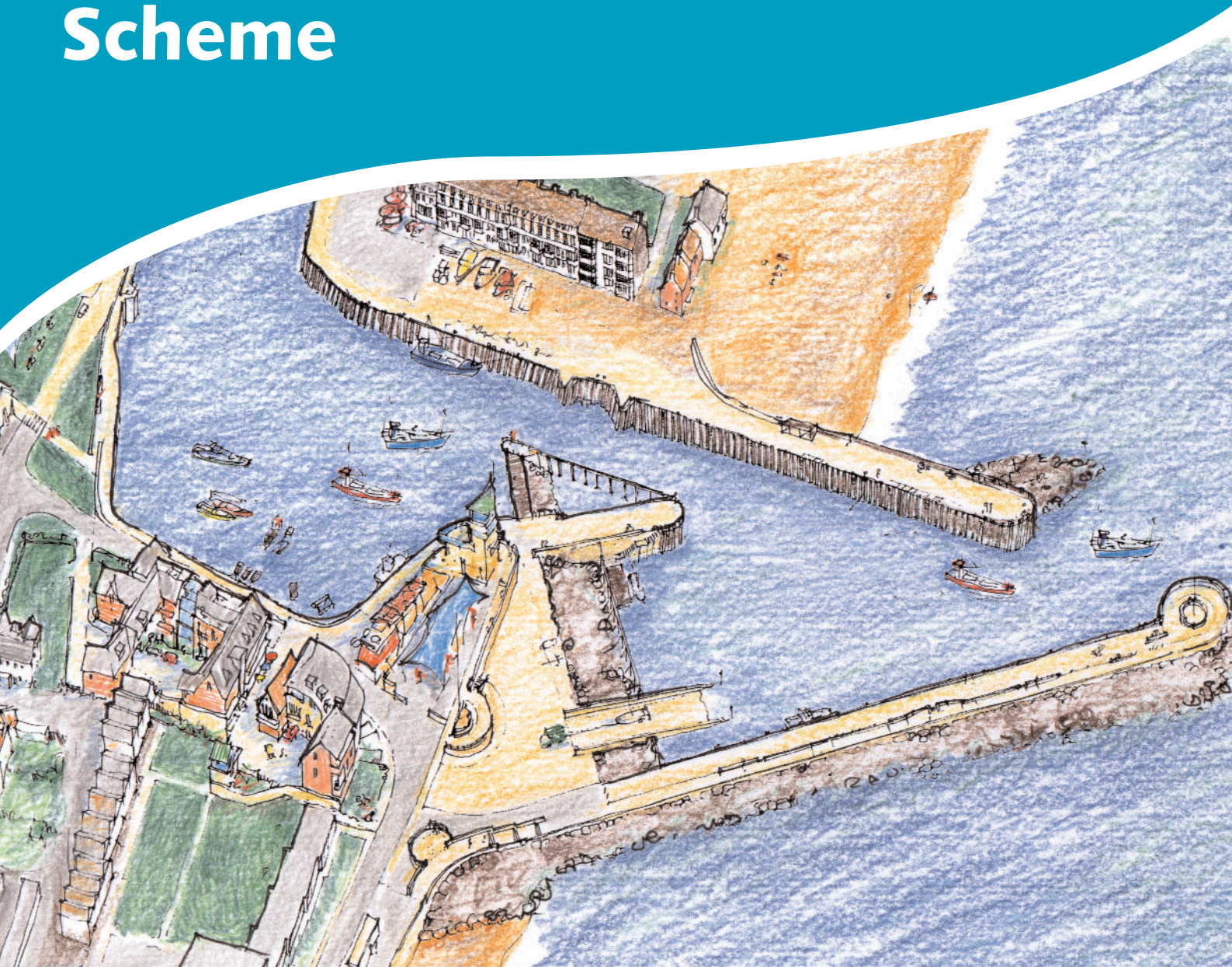


working together to achieve success

West Bay Coastal Defence and Harbour Improvements Scheme



The £14 million coastal defence and harbour improvements scheme is planned for completion in spring 2004.

Aims and objectives of the scheme

- To provide long term sustainable flood protection for 510 homes, 55 commercial properties and a leisure complex with 350 static caravans.
- To improve the harbour to enable vessels to navigate the entrance in all but the most severe storm conditions.
- To maintain the character of the existing harbour while almost doubling its size.
- To provide maximum amenity value for both residents and visitors to West Bay.
- To provide seating and viewing areas along the entire 250m length of the new replacement West Pier.
- To provide a new slipway area.
- Closures of West Beach are planned to take place outside the main summer season.
- At least one pier will always be open.
- Vantage points have been set up so the public can watch the works in safety.
- Road crossings have been provided to guide pedestrians away from the construction site entrance.
- Delivery of materials has been organised to ensure the minimum of disruption.
- A public information office has been opened to provide a personal point of contact for any concerns or enquiries.

The views of the local community have been very important in creating the scheme, and extensive public consultation has been carried out:

- On the basic concept.
- On the appearance of the new structures and facilities.
- On future plans for West Bay.



The works will give defence against storm conditions.

Working together to achieve success

- During the construction process, everything is being done to ensure that West Bay operates as close to normal as possible.
- The harbour and esplanade will remain open throughout the construction period.



This aerial photograph shows the new rock groyne at West Beach. (Photograph by Riverside Pictures)

The scheme



Rock armour is delivered by sea

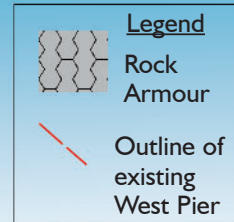
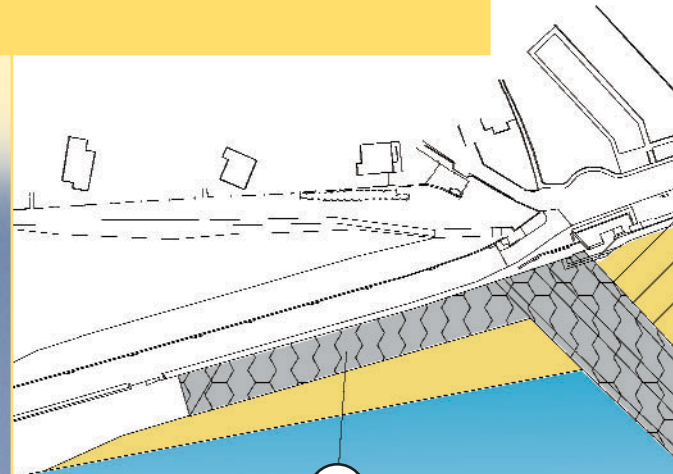
Visit the Salt House

The Salt House Information Centre includes photographs, documents and images charting West Bay's ongoing battle against the sea. It also includes an exhibition showing details of the scheme. Staff are on hand to talk to people about the work and address any concerns that they might have.

Call on 01308 421517 or email engineers@westdorset-dc.gov.uk and let us know your comments.

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6

Constuction of rock armour toe protection to the existing West Cliff Sea Wall.



Work starts on the new West Pier

Construction of a timber
slipway with rock armour
protection.

4

Construction of a slipway area
100m wide slipway using
material from the demolished
West Pier.

2

St. John's
Church

Harbour

Quay

Car Park

The Mound

3

Demolition of the existing
West Pier.

5

Strengthening of the
existing East Pier and
construction of a rock
armour extension.

8

Beach replenishment to
West Beach.

7

Construction of a rock
armour groyne.

1

Construction of a 230m length
replacement West Pier with
rock armour protection on the
seaward face.

Elements of the Scheme

- New West Pier
- Slipway area
- Demolition/remedial works
West Pier
- Harbour Master's Jetty
- East Pier strengthening
- West Cliff Sea Wall
- West Beach Groyne
- West Beach replenishment



West Bay

West Bay is situated at the Western end of the picturesque Chesil Beach. East Beach is designated as a Site of Special Scientific Interest while West Dorset's Jurassic Coast is England's first natural World Heritage Site. The harbour entrance is recognised as one of the most dangerous in the country and on average can only be entered on 200 days a year making it extremely limiting for commercial and leisure craft.

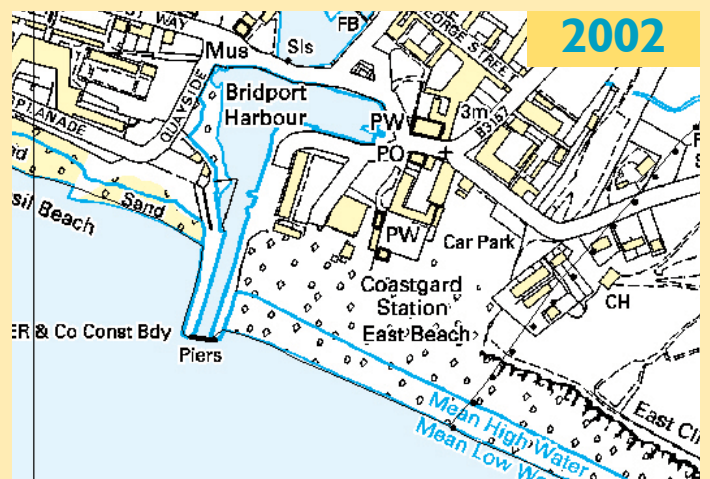
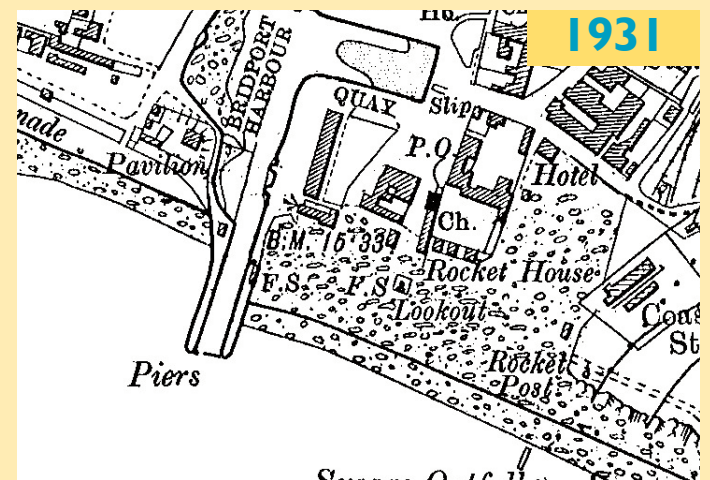
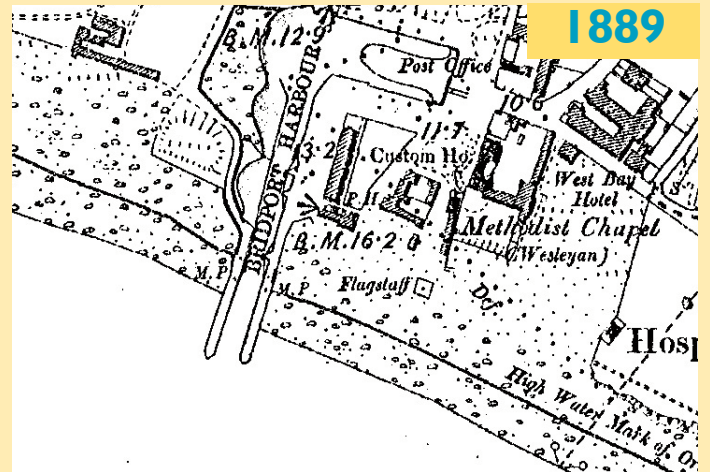
Industry

In 1740 two piers were constructed to provide a passageway through the beach so that trading vessels could moor on the river and development of the harbour followed. Shipbuilding flourished during the late 18th and early 19th centuries but declined following devastating floods of 1824. However, West Bay continued to trade as a commercial port, mainly off loading timber and fertilizer, right up until 1976. Although it still operates today as a working fishing harbour the area is a popular destination for holidaymakers.

Saving West Bay from the sea

West Bay's historic piers and sea defences have suffered major and sustained damage over the past 50 years and are in urgent need of repair to prevent flooding and protect properties from the sea. The £14 million coastal defence scheme being promoted by the district council in partnership with the Environment Agency will see the West Pier demolished and rebuilt on a new alignment, rock armour installed to protect the sea wall plus replenishment of the beach. The East Pier will also be strengthened and extended.

West Bay through the ages



These maps from 1889, 1931 and 2002 show how the coastline of West Bay has changed during the years.

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(left) Extensive flooding in 1974 caused widespread damage and forced the evacuation of local people and holidaymakers. (Photograph by Peter and Mary Payne)



Working together to achieve success

West Dorset District Council has drawn up the specification for the works and the outline design in association with the Environment Agency and Posford Haskoning. Testing of the scheme has been carried out at Hydraulics Research Wallingford.

Costain Ltd is undertaking the works including the detailed design in association with Gifford & Partners.

The cost of the £14 million scheme is funded through several sources:

DEFRA Flood defence	32.63 %
DEFRA Coast protection grant	13.98 %
West Dorset District Council capital budget	3 %
West Dorset District Council revenue budget	34.11 %
Environment Agency revenue budget	13.28 %
DEFRA Fishing harbours grant	3 %
	<hr/>
	100 %

(DEFRA: Department for the Environment, Food, and Rural Affairs)

<u>Shopping List</u>	<u>Tonnes</u>
Rock armour (primary & secondary)	98,500
Fill material to rock structures	1,500
Fill material to structures	20,000
Aggregate for use in precast concrete products	160
Beach replenishment in materials	28,000
Aggregate for use in ready mixed concrete	250
Surfacing materials	250
Masonry	30
Steel sheet piling	3000
Total	<hr/> 151,690



Gifford



ENVIRONMENT
AGENCY

DEFRA



HR Wallingford



ROYAL HASKONING

POSFORD HASKONING

