



0 50 100 200 Metres



- Proposal
- Environmental Impact
- Mitigation
- Enhancement / Opportunity

- Locations of Proposed Works
- Environmental Designations**
  - North York Moors National Park
  - SINC
  - Ancient Woodland
- BAP Habitats**
  - Maritime Cliffs and Slopes
  - Deciduous Woodland
- Registered Parks & Gardens**
- Conservation Areas
- HeritageCoast
- Material Assets and Critical Infrastructure**
  - Doctors Surgery
  - ★ Sandsend Cafe
  - A Road
  - ◆— Cleveland Trail
  - ▲ Beach Access
- Historic Environment**
  - Listed Buildings
    - Grade II
    - Defence of Britain Sites
    - Archaeological Event
    - Cultural Heritage Sites

Replacement of approx. 850m of concrete apron with a stepped concrete revetment.

SINC and BAP habitat will be damaged during the construction phase of the scheme. Temporary loss of beach area during construction.

Area of SINC and BAP habitat affected will need to be appropriately restored and monitored. Features known archaeological interest will need to be recorded along the existing revetment.

The provision of the stepped revetment will increase access onto the beach.

Continuation of defence for approximately 100m across Raithwaite Gill.

Permanent loss of foreshore at base of cliff. Permanent alteration of the local landscape / seascape character, and reduction in visual amenity value.

A landscape / seascape character assessment should be undertaken to identify the potential impacts to, in particular, the North Yorkshire and Cleveland Heritage coast and to identify suitable mitigation measures, where required.

Upper coastal slope to be re-graded to 22 - 24 degrees, resulting in the removal of approximately 22,000m<sup>3</sup> of material.

Loss of approx 1.9ha of SINC and BAP habitat.

A spring flower survey needs to be undertaken to identify the potential presence of orchids. If identified, plants will need to be relocated. Area to be appropriately re-seeded and monitored. An archaeological watching brief is to be undertaken during the re-grading of the slope.

The habitat in this area is of low biodiversity value due to instability of the slope. As such the slope stabilisation works and ecological restoration will enhance the SINC and BAP habitat.

If suitable, material excavated from the upper coastal slope is to be used to support the continuation of the defence across Raithwaite Gill. This will require the existing culver to be extended by approximately 40m.

Area to be appropriately re-seeded and monitored. A detailed investigation and recording of the known features of archaeological interest needs to be undertaken.

Loss of approx. 0.2ha of SINC and BAP habitat. Potential adverse effects to features of archaeological interest.

The placement of material in the Gill is considered to preserve in-situ the known archaeological features.

- NOTES**
1. All works are to be undertaken in accordance with best practice, in particular CIRIA report C584, and Environment Agency guidance.
  2. Construction to the upper coastal slope is to take place outside of the peak tourism period to reduce impacting on the area's important tourism economy and the A174.
  3. A Site Waste Management Plan needs to be produced prior to any works taking place.
  4. Breeding birds will need to be considered should any works commence within the breeding bird season (typically beginning of March to end of August).
  5. All works should be appropriately fenced off, with information and safety signs provided where required. Contact details should be presented should the public wish to raise any concerns or complaints.
  6. Working hours are restricted to:
    - Week days - daylight hours commencing no earlier than 08:00;
    - Saturday - 09:00 to 17:00; and,
    - Sunday - 10:00 to 16:00.
  7. An ecological restoration and monitoring strategy should be agreed with the County Ecologist and Natural England prior to any works taking place.
  8. An archaeological written statement and recording needs to be produced and agreed with the County Archaeologist prior to any works taking place.

Title:  
Indicative Landscape Plan:  
Sandsend

Project:  
Sandsend Road Coast  
Protection Scheme

Client:  
Scarborough Borough Council

Date:  
November 2011

Scale on A3:  
1:5,000

Figure:  
1

Drawn:  
TC

Checked:  
SR



Reproduced by permission of Ordnance Survey on behalf of HMSO. © Crown copyright and database right 2011. Ordnance Survey Licence number 100024267.

G:\95572\Technical\_Data\15\_GIS\Projects\Figures\ENV\_SEA\Sandsend\_ILP.mxd