

Broughty Ferry Dune Management Plan

Project Update





Project Background / History

- Requirement to Manage Flood Risk under Flood Risk Management (Scotland) Act 2009
- Coastal Flood Study undertaken by Mott MacDonald that assessed Flood Risk within DCC 16Km Coastline
- Previous Scheme proposed in 2015 by DCC. Revisited and proposals have changed.
- Macleod Consulting commissioned to undertake Dune Management Plan. Reviewing all previous studies and proposed options.

Project Description

- Aim:
 - To ensure that the dunes continue to provide a natural flood protection to Broughty Ferry.
 - To put in place a dune management plan to protect the Dunes and the natural habitats within them.
 - Stabilise 680 m of the Dunes and reduce influence of erosion from wind and water.

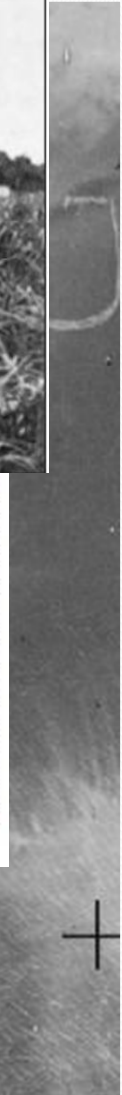


Dune Requirements?

New Report investigated the following:

1. Are the Dunes growing through accretion of sand?
2. What height of Dunes are required for flood protection?
3. What width of dunes are required for flood protection?
4. How can we best protect the Dunes from future erosion damage natural and Human.

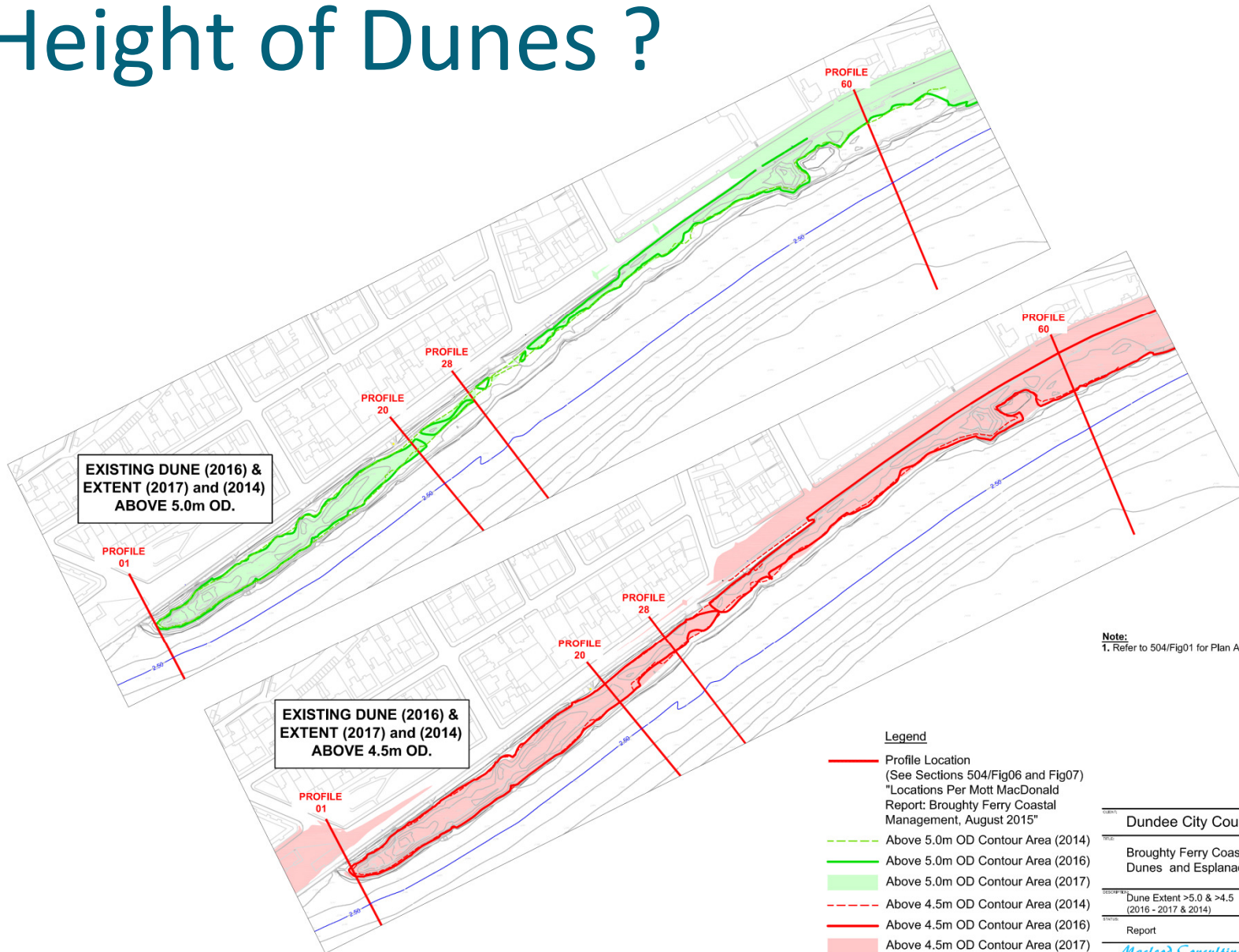
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Height of Dunes ?



EXISTING DUNE (2016) & EXTENT (2017) and (2014) ABOVE 5.0m OD.

EXISTING DUNE (2016) & EXTENT (2017) and (2014) ABOVE 4.5m OD.

Note:
1. Refer to 504/Fig01 for Plan Area Location

Legend

- Profile Location
(See Sections 504/Fig06 and Fig07)
"Locations Per Mott MacDonald Report: Broughty Ferry Coastal Management, August 2015"
- Above 5.0m OD Contour Area (2014)
- Above 5.0m OD Contour Area (2016)
- Above 5.0m OD Contour Area (2017)
- Above 4.5m OD Contour Area (2014)
- Above 4.5m OD Contour Area (2016)
- Above 4.5m OD Contour Area (2017)

Dundee City Council		DATE:	LMD
Broughty Ferry Coastal Protection Dunes and Esplanade		DATE:	AMCL
Dune Extent >5.0 & >4.5 (2016 - 2017 & 2014)		DATE:	AMCL
504/Fig04		DATE:	06/18
Report	1:2500 @ A3		
		<small>11 Castle Street, DUNDEE, DD1 3AA TEL: 01382 221999 FAX: 01382 203385 OFFICE@MACTECCONSULTING.CO.UK</small>	

Height of Dunes Proposed Action



Width of Dunes?

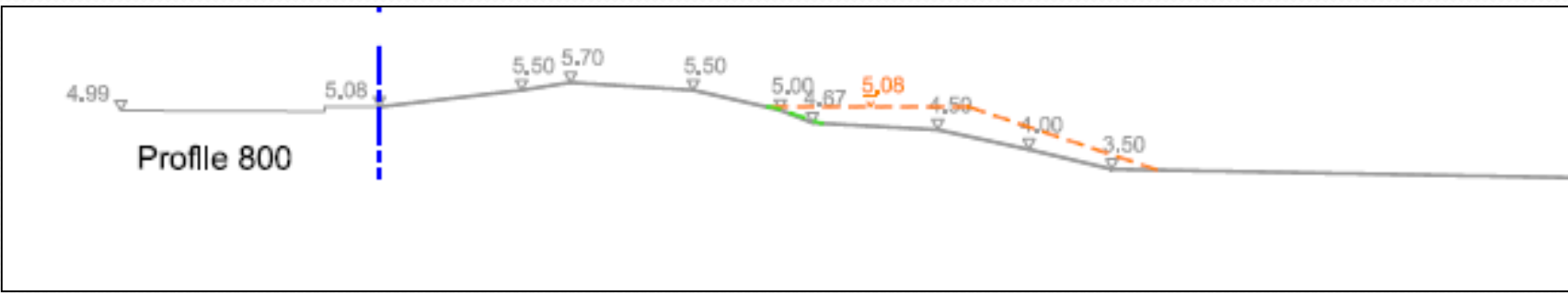
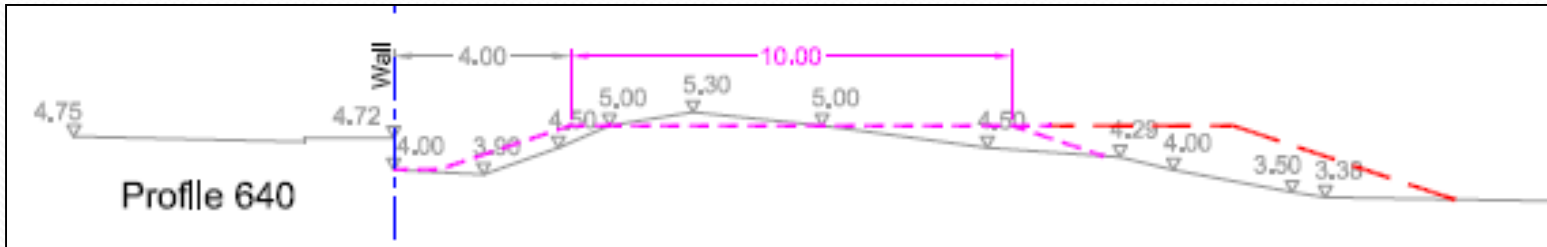
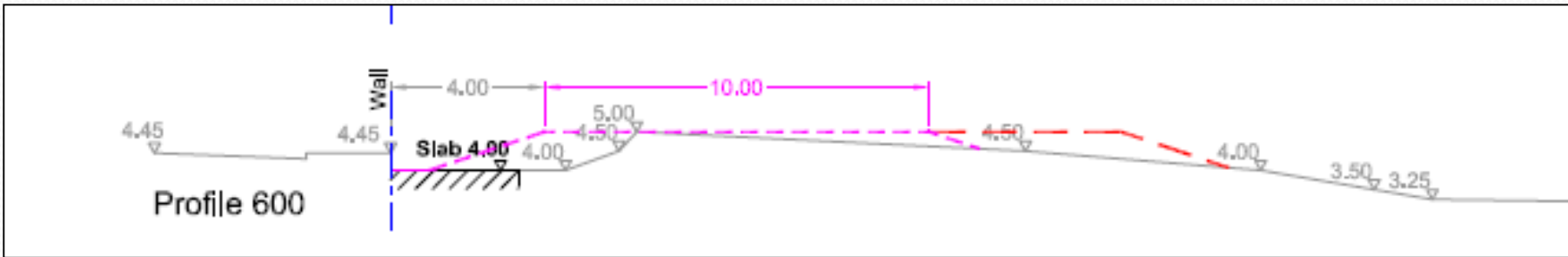
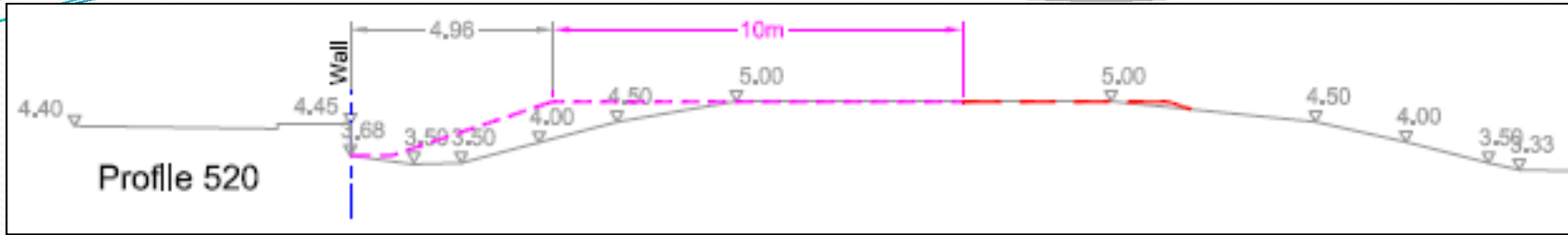






Width of Dunes





Dune Protection



Dune Protection - Access



Dune Protection – Access





Summary Dune Management

1. Import Sand to achieve Height of 5.0m AOD.
2. Import Sand to widen areas at rear of Dunes.
3. Install fencing and create access paths.
4. Install box fencing and start process of growing at front of Dunes.
5. Put in place planting regime to stabilise dunes through vegetation growth.



Programme

1. Conclude Habitat Regulation Assessment with Scottish Natural Heritage.
2. Confirm Planning Requirements with DCC Planning department.
3. Fencing works to start Feb 2019
4. Area of Increased Height start March 2019.
5. Area of works to Rear of Dunes October 2019.
6. Ongoing maintenance of Dunes from March 2019

Questions?

