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Scott Carver

Sydney Opera House

Eastern Sea Wall
Sandstone Plugging Specification Note

NSW GOVERNMENT
Planning

Issued under the Environmental Planning and Assessment Act 1979

Approved Section 75W Modification Application

No. MOD 1 granted on the 10/10/11

In respect to MP 09_0122

Signed.....

Sheet No. 3 of 3

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SECTION SP-040—SANDSTONE CLADDING - Capping of existing Outlet to Stone Wall

1 GENERAL

A. This work section describes the method for removal and plugging of an existing stormwater outlet to an existing sandstone sea wall, on the eastern side of the Sydney Opera House forecourt. The outlet is redundant as a result of a revised stormwater reticulation network that includes a new opening to the wall.

B. The location of the subject outlet is as identified in the Civil Engineering drawings.

C. This work section shall be read in conjunction with applicable Statutory Approvals and all Head Contract works associated with the Bennelong Drain Project.

2 STANDARDS

General
Comply with current edition of the Standards and Codes, including

AS 3600	Concrete structures
AS 1316	Masonry Cement
AS3972	Portland Cement
AS1672.1	Lime

Stonework:

BS 5390	Code of practice for stone masonry.
BS 8298	Design and installation of natural stone cladding and lining.

Statutory Authorities, permits and approvals:
Make all necessary applications and obtain all necessary approvals from relevant Statutory Authorities. Submit copies of all applications, approvals and any related correspondence.

4 STORMWATER DRAIN CAPPING

The Contractor shall cap and plug the existing stormwater drain upstream of the outlet to the sea wall, where the drain interfaces with the existing network; in order to ensure water is not permitted to enter the drainage pipe.

The Contractor is to trim back the pipework where it penetrates the sandstone wall to a minimum depth of 300mm to facilitate the installation of a stone indent and ensure the indent is mortared to adjoining sandstone and not the PVC pipe.

The Contractor is to install a concrete plug within the pipe of min. 300mm back from the wall and for a depth of minimum 200mm.

5 MATERIALS

A. Sandstone Indent

The Contractor shall source sandstone to match the existing sandstone to the wall. It shall be matched for colour, texture and tone; and shall be of comparable hardness and porosity.

The stone shall be cored to a diameter to match the existing hole and then fixed in place with mortar as outlined below. The same mortar mix shall be used for pointing of the stone upon complete.

Dimensions:
The circular stone indent shall be minimum 300mm deep. Diameter to match existing hole.

Finish:
The finished stone face shall be finished prior to insertion, to match the existing wall.

B. Mortar

Mortar shall comply with AS3700

Mortar mix shall be 1:1:6 cement, lime, sand mortar.
Ready mixed mortar shall not be used.
Material shall be mixed thoroughly and free from lumps.

C. Cement for Mortar

Cement shall comply with AS3972

D. Sand for Mortar

Sand for mortar shall be fine aggregate with a low clay content and free from efflorescing salts, selected for colour and grading.

Sand shall be well graded from 2mm maximum.
Sand shall be thoroughly washed to remove all contaminants and shall be guaranteed not to contain an efflorescing salts.

E. Water

Water shall be clean and free from any deleterious material

6 SAMPLES

A sample piece of the sourced sandstone for the indent piece is to be provide to the Principal for approval prior to cutting of the stone.

7 INSPECTION

Give sufficient notice (not less than 48 hours) so that the following may be inspected:

- Stone indent in place prior to pointing
- Completed works

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