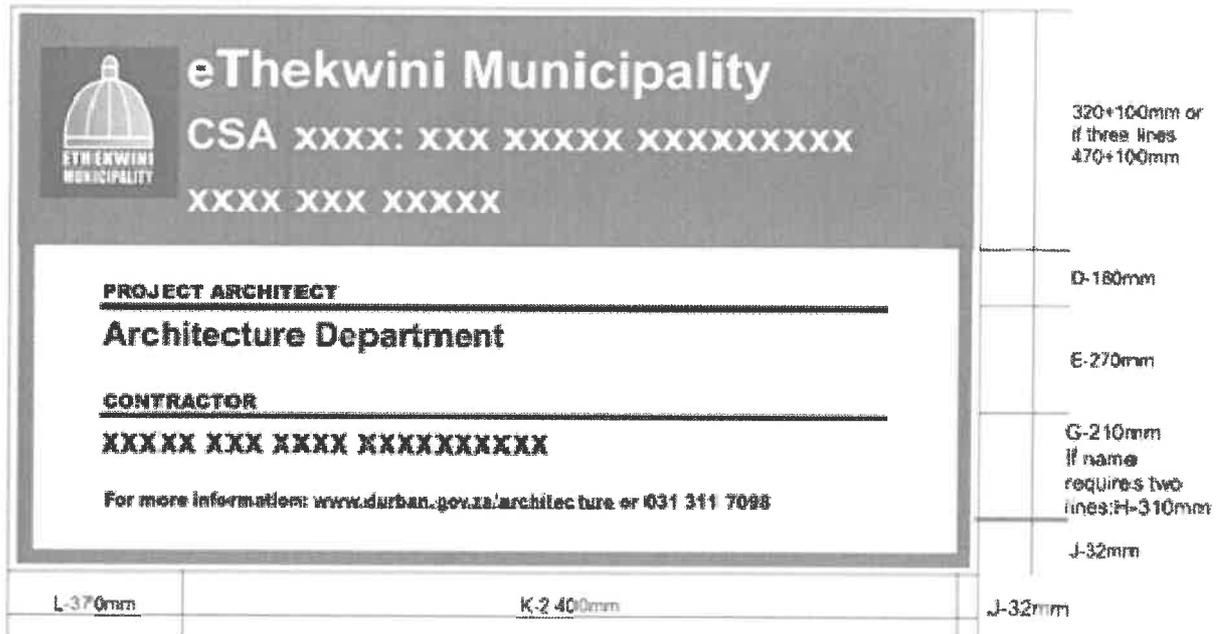
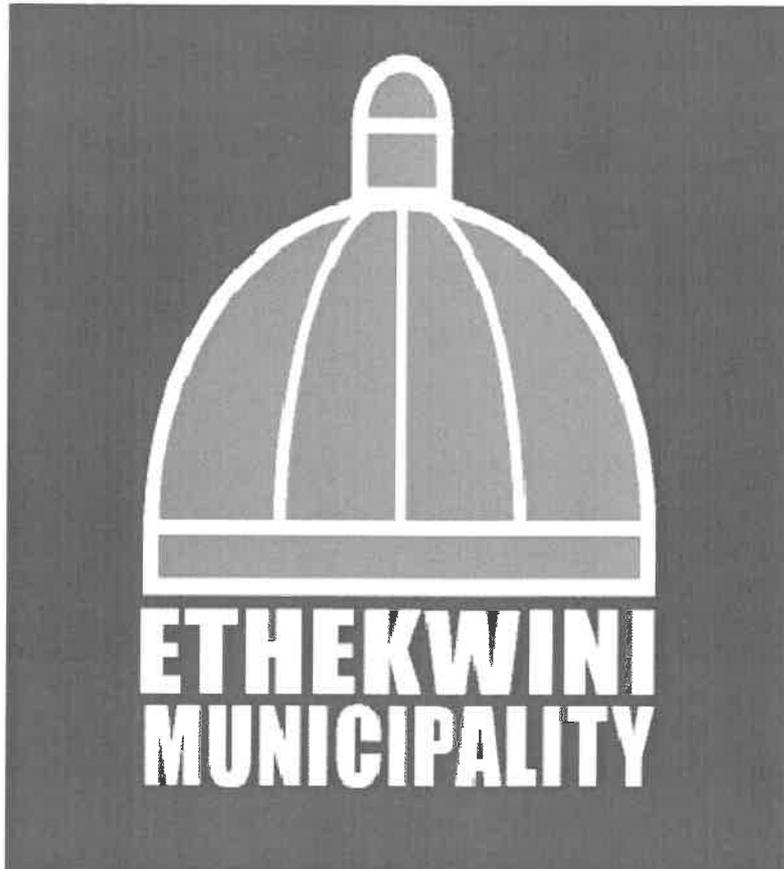


ANNEXURE 1

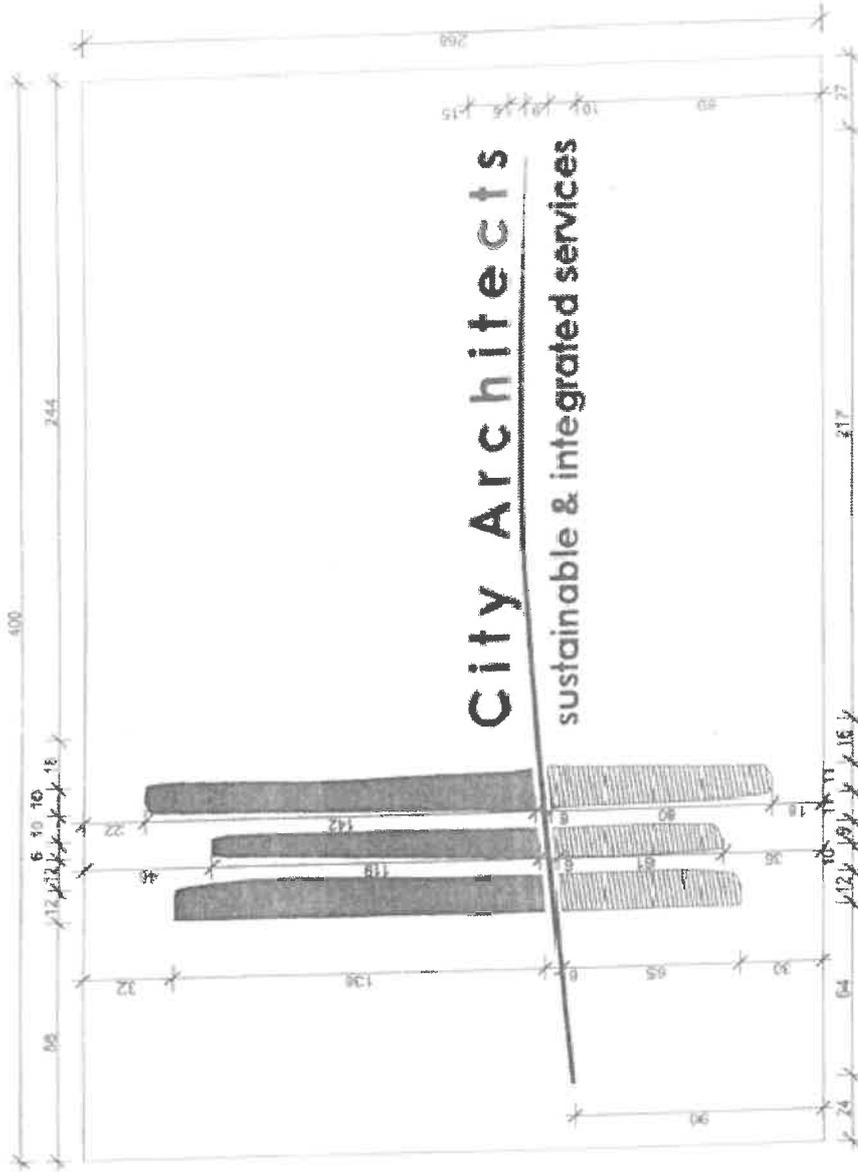
1. SITE NOTICE BOARD



2. ETHEKWINI MUNICIPALITY LOGO



3. CITY ARCHITECTS LOGO



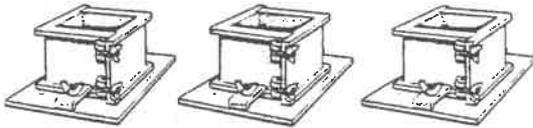
ANNEXURE 2

CONCRETE TEST CUBE INFORMATION

How to make 150mm cubes

(In accordance with SABS Method 861-3:1994)

Note: Three cubes are needed for each test. If they are to be tested at 7 days and at 28 days, you will



need 6 cubes - 3 for each test.

Materials and Tools

- 1 A sample of the concrete (about half a wheelbarrow full).
- 2 A wheelbarrow and a shovel.
- 3 A scoop.
- 4 3 cube moulds for each test.
- 5 A steel tamping rod, 16mm in diameter by 600mm long (± 2 mm) with one end rounded.
- 6 A steel float.
- 7 Pieces of writing paper (absorbent paper) for labels.
- 8 A ballpoint pen or, preferably, a soft pencil.
- 9 Mould release oil.
- 10 Grease.

How to make the cubes:

- 1 Check that: -
 - the moulds are clean and do not have dust or dirt on them
 - the joint faces have been greased
 - they are assembled in the right way
 - there are no small gaps at the joint faces
 - all the joint faces are square
 - the bolts are tight
- 2 Smear release oil very thinly on the inside faces of the moulds.
- 3 Place the moulds on a firm, level surface.
- 4 Mix the concrete well in the wheelbarrow.

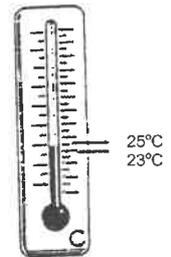
Note: The delivery of concrete cubes for testing will be taken as an acknowledgment by the Contractor that the cubes have been

- Made in accordance with SABS Method 861-3:1994.
- Correctly labelled.

- 5 Fill the moulds with concrete in 50mm layers.
- 6 Tamp each layer at least 45 times with the tamping rod to get the air bubbles out.
- 7 the last layer should more than fill the mould. After tamping the last layer, trowel the top of the concrete so that it is level with the top of the mould.
- 8 Write the following on a label for each cube:-
 - the Contract number
 - the cube batch reference number
 - the date when the cube is made
- 9 Gently press the label onto the top of the Cube
- 10 Cover the cube - preferably with a damp cloth or otherwise with a sheet of plastic - and store it in the shade, away from wind and where it will not be disturbed.
- 11 If the weather is cold, make and store the cube indoors.

The next day

- 1 Loosen all the bolts on the mould.
- 2 Gently loosen the sides of the mould n remove them.
- 3 It is a good idea to write the information on the label on the cube with a lumber crayon.
- 4 Put the cubes into water. The temperature of the water should be 22°C - 25°C.
- 5 Leave the cubes covered with water until they are taken to the testing laboratory.
- 6 Clean the moulds and assemble them again.
- 7 Take the cubes to the testing laboratory together with the completed test sheet 24 hours before they are to be tested.



Queries about concrete cube tests and results can be made with: -

Allen Peterson (T: 311-7858)

eThekwini Municipality
Central Operational Entity
City Engineer's Unit
Roads Department

