

**HIGHER TECHNICAL INSTITUTE
CIVIL ENGINEERING DEPARTMENT**

DIPLOMA PROJECT

DESIGN OF A WATER TOWER IN CONCRETE

**BY
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C/929**

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CIVIL ENGINEERING DEPARTMENT**

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NO C/929

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OBJECTIVES

- 1.To decide the geometry of the water tower
- 2.To estimate wind loading
- 3.To analyze and design the Tower
- 4.To produce construction drawings and connection details

TERMS AND CONDITIONS

- 1.Heigth of tower 20m
- 2.Capacity of tank to be 150m^3 (30,000 gal)
- 3.Soil bearing capacity 200 KN/m^2
- 4.High yield steel throughout ($f_y = 460\text{ N/mm}^2$)

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Costas K Costantinou.