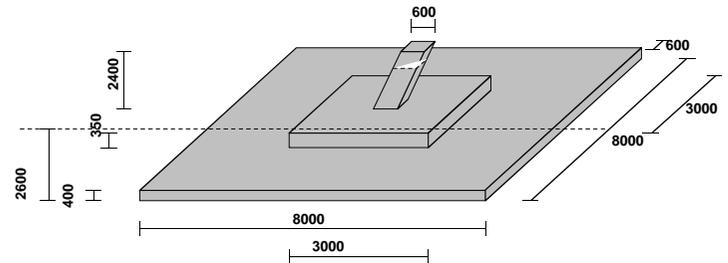


Plan View General Layout (dashed line = NGL)



Bar Mark	Bending Schedule Shape (not to scale)	Bending Schedule								
		Shape Code	No. of bars	Dia mm	Length mm	a mm	b mm	c mm	d mm	Spacing mm
1	Column bars a	34	8	Y16	3400	3100				250
2	Column stirrups a	60	11	R10	2200	500	500			320
3	Box Face Bars a b c d	53	22	Y16	5400	725	#VALUE!	2850	#####	260
4	Pad bars (top) a	35	68	Y16	8100	7850				230
5	Pad bars (bottom) a	35	68	Y16	8100	7850				230
6	Stools b a b c	83	81	R10	900	200	206	150		±1000

**Pricing Parameters**

Steel Weight (kg)	Concrete Volume (m <sup>3</sup> )	Formwork surface area (m <sup>2</sup> )	Excavation volume (m <sup>3</sup> )	Excavation surface area (m <sup>2</sup> )	Stub weight (kg)
1782.36	29.61	10.13	166.40	147.20	241.85

Quantities are based on dimensions of design drawings

NO Allowances have been made for material wastage or overbreak

**Design Loads (incl. load factor)**

Compression kN	Uplift kN	Transverse kN	Longitudinal kN	Moment kN-m
1791.60	1573.20	92.40	68.40	0.0

Note:

- 1 Reinforcing layout diagrams are not to scale.
- 2 All design data and Construction to Specification TRM5CAAC5 (TI240-47172520)
- 3 Concrete strength: 25 MPa minimum at 28 days.
- 4 Construction joint between column and the pad to be scabbled and painted with cement slurry or wet/dry epoxy.
- 5 Bottom end of tower stub is always in the centre of the pad in both the transverse and longitudinal directions
- 6 The Side and Plan Views are only schematic and not to scale.

Stub and column true angle (from vert)(maximum on diagonal line)

13.900 degrees

Min Cover required:

Pad:

75 mm

Column:

50 mm

Revision Description	Date	By	Rev No
<b>Column &amp; Pad Foundation (boxed version)</b> <b>518D Tower</b> <b>Type 4 Soil</b> <b>Eskom Standard Design</b>			



**Disclaimer:**  
While due care has been applied in the design of this foundation, the contractor is required to verify that this design is fit for purpose considering preferred construction methodologies, geotechnical and structural requirements required at the point of application.

Designed: S DUDHIA	Checked: W H COMBRINCK	Revision: Rev0	Date: 09-Sep-2015	Drawing No:
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