Roundabout Sculpture

Arrows denotes 25mm fall across the exposed top concrete surface of the foundation

3000

1000

1000

1733

Edge of Foundation

Edge of Sculpture Baseplates

Circular flat area to be formed for mounting of the sculpture baseplates.

top view of concrete foundtion, plinth and sculpture
Concrete foundation shaped as a hexagon
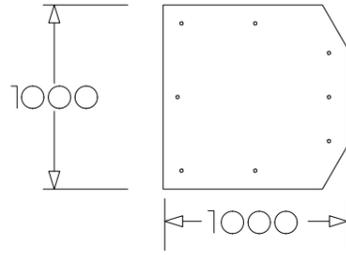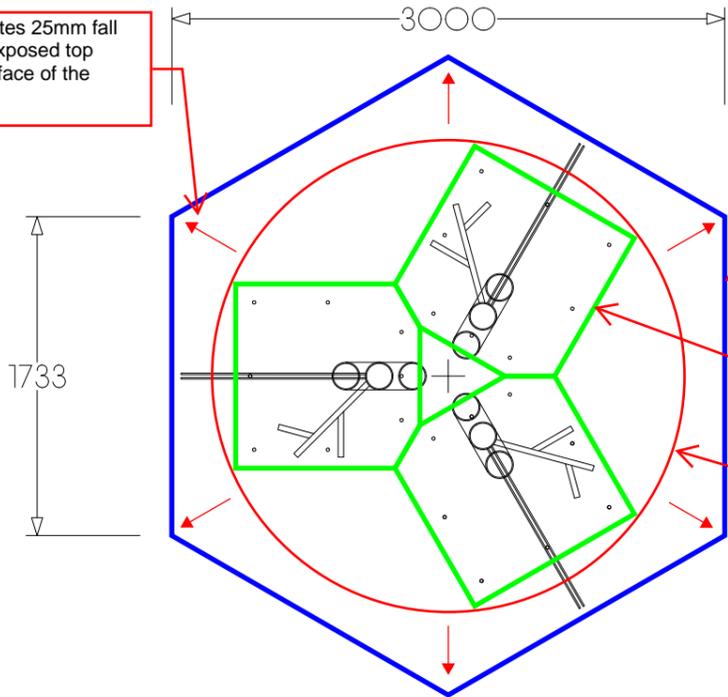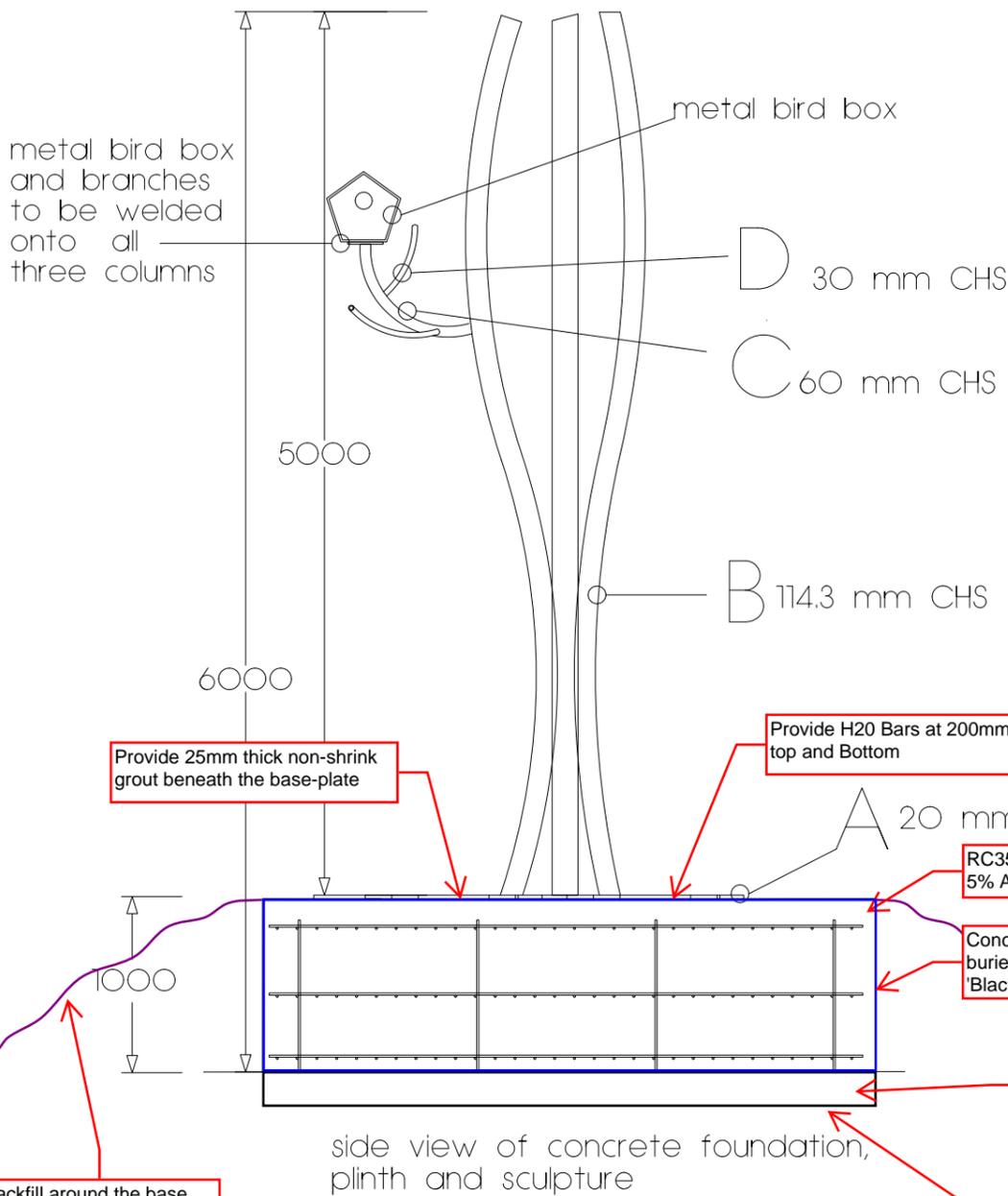
Approx Weight Calculation

A   20 mm plate   157 kg/m2

B   114.3 x 5 mm CHS   13.5 KG/M

C   60.3 X4 mm CHS   5.55 kg/m

D   33.7 X 3.2 mm CHS   2.41 kg/m

E   4 mm plate   31.4 kg/m

Weight of One Part
A   1 no at 157 kgs =   157 kgs
B   1 no. at 5m long = 13.5 x 5 = 67.5 kgs
C   1 m long = 2.41 kgs
D   total length 1 m long = 5.55 kgs
E   bird box 0.5 of a squarem = 15.7 kgs
F   combinded weight of plate = 376.8 kgs

Each Leaf   624.96 kgs
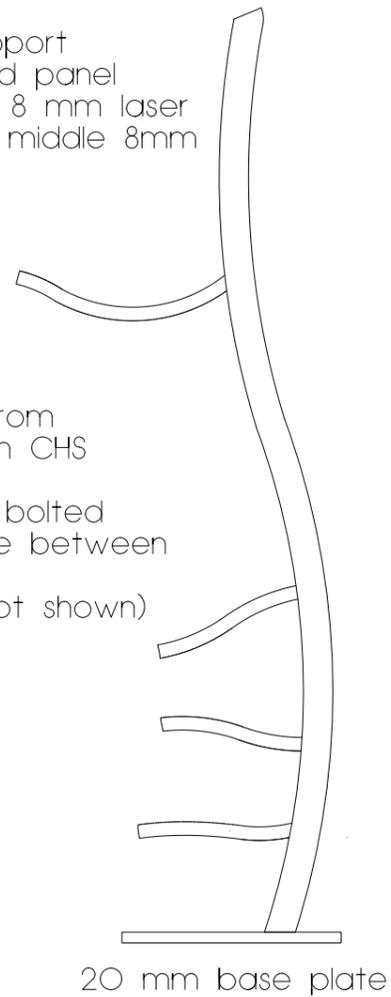
Total for 3 parts = 3 x 624.96 =   1874.88 kgs

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metal bird box and branches to be welded onto all three columns

metal bird box

welded arms support a doubled skinned panel from 2 layers of 8 mm laser cut plate with a middle 8mm spacer.

D 30 mm CHS

C 60 mm CHS

B 114.3 mm CHS

arms from 60 mm CHS

panels bolted in place between arms (lugs not shown)

5000

6000

Provide 25mm thick non-shrink grout beneath the base-plate

Provide H20 Bars at 200mm ctrs top and Bottom

A 20 mm plate

RC35 Concrete Base with 5% Air Entrainment

Concrete faces to be buried to be coated with 'Black Jack' Waterproofing

150mm Type 1 Sub-base

20 mm base plate

structure of one unit

1000

Backfill around the base with 6N material as required. Landscaping and topsoil by others.

side view of concrete foundation, plinth and sculpture

Minimum safe bearing pressure required 60kN/m2.
To be confirmed by others and that the ground is non-frost susceptible below the Type 1 Sub-base.

Weight Calculation   090525 rev2