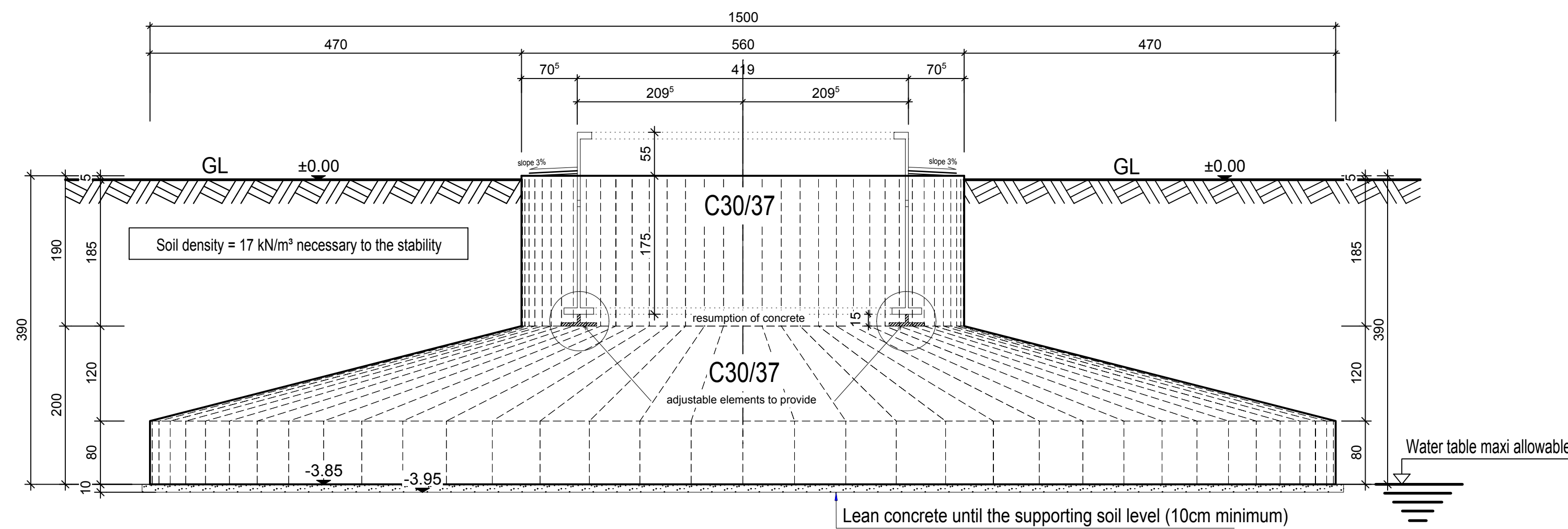


SECTION A-A

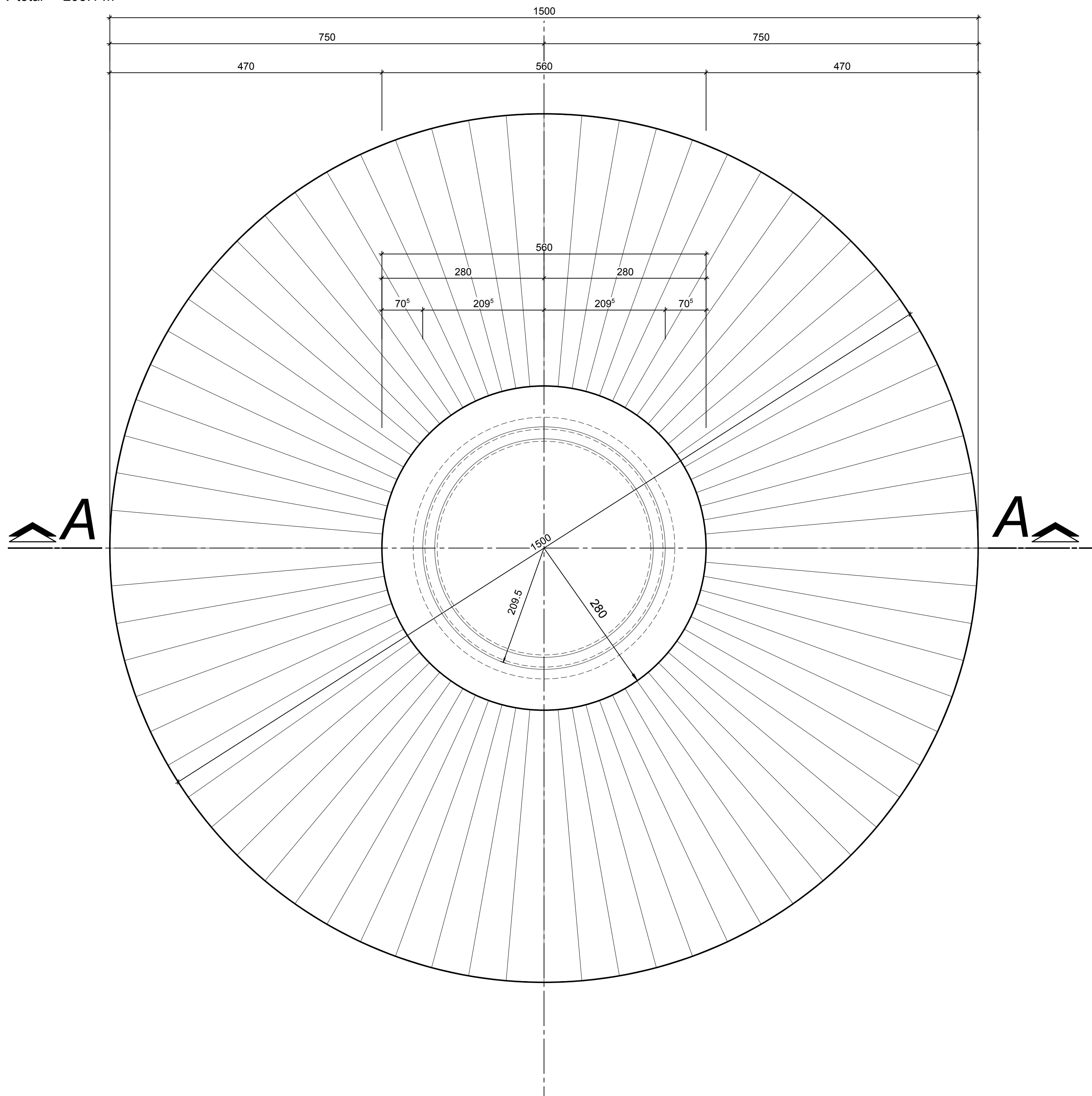
Scale : 1/50



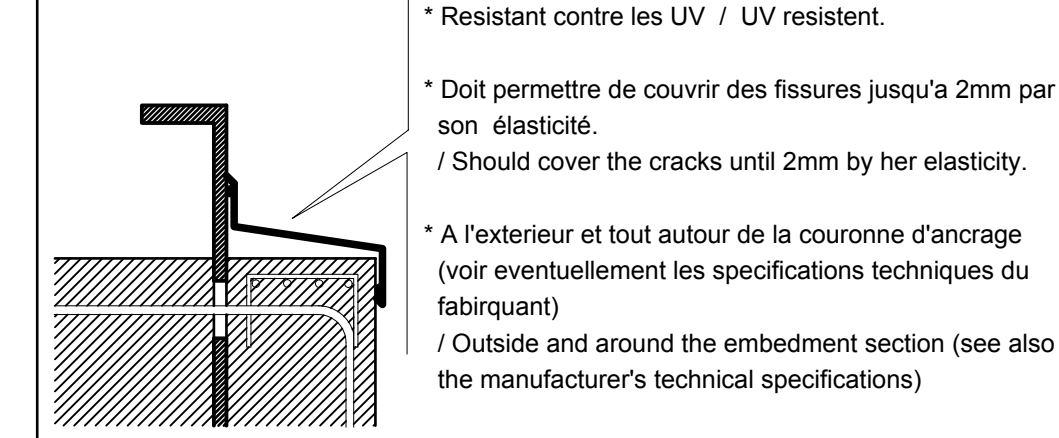
PLAN VIEW

Scale : 1/50

Vslab = 248.3 m³
Vpedestal = 46.8 m³
V total = 295.1 m³



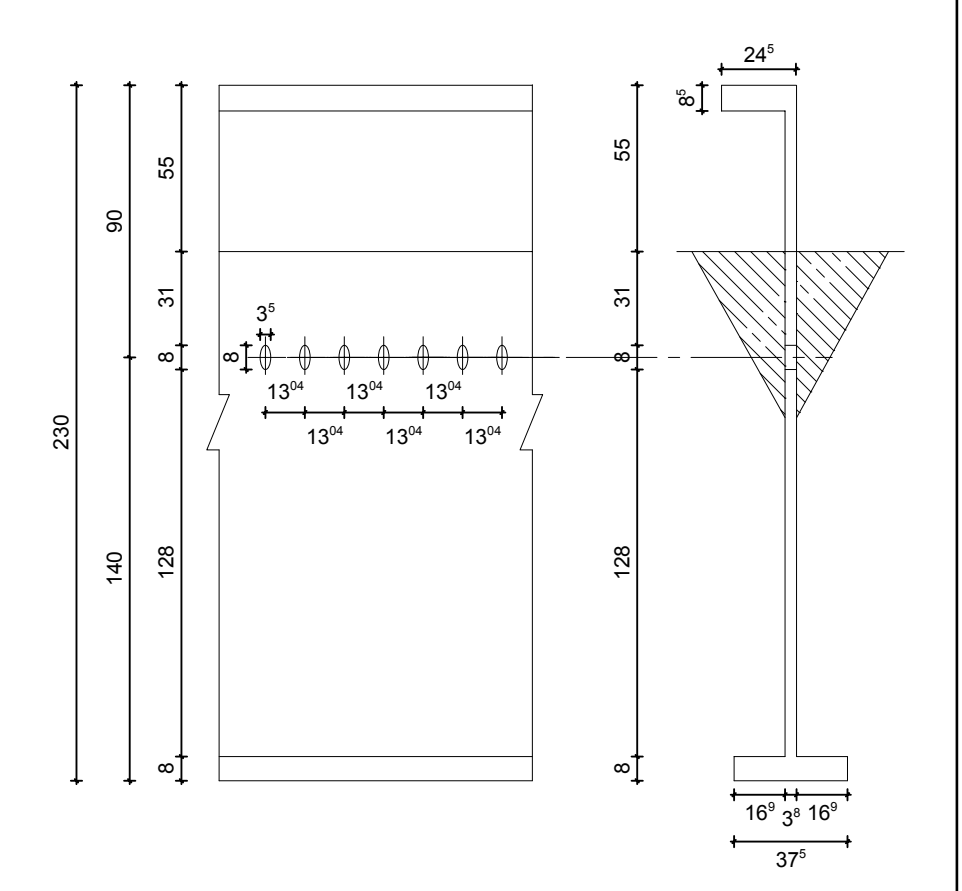
Détail schématique de couverture / Detail of the protection (Socle / Pedestal)



- * Résistant contre les UV / UV resistant.
- * Doit permettre de couvrir des fissures jusqu'à 2mm par son élasticité. / Should cover the cracks until 2mm by her elasticity.
- * A l'extérieur et tout autour de la couronne d'ancrage (voir éventuellement les spécifications techniques du fabricant) / Outside and around the embedment section (see also the manufacturer's technical specifications)

Détail de la couronne / Embedment detail

Echelle / Scale: 1/25



MATERIALS

Reinforcement: fe E 500
Bending radius : 6Ø mini (except contrary indication on drawings)
Protection layer: c = 5,0 cm
Classification of exposition: Pedestal: XC4 - XF3 (XF1 possible when horizontal surface of the pedestal is protected).
Slab: XC4 - XF1.
Concrete: following plan - (respect of the standard NF EN 206-1 (P18-305))

Basic obligations

Resistance class: concrete C30/37 (pedestal)
concrete C30/37 (slab)

Additional obligations

The concrete should come from a NF BPE certified concrete factory. Before the first casting, the enterprise should give the exact composition of the concrete (adapted to the present project) to the control office. The concrete should have a controlled shrinking and emission of hydration heat (the enterprise will provide a quality management plan). The enterprise will use the adequate methode of vibration corresponding to the volume of concrete to be realized. The surface of the foundation (beside the pedestal) will be smoothed.

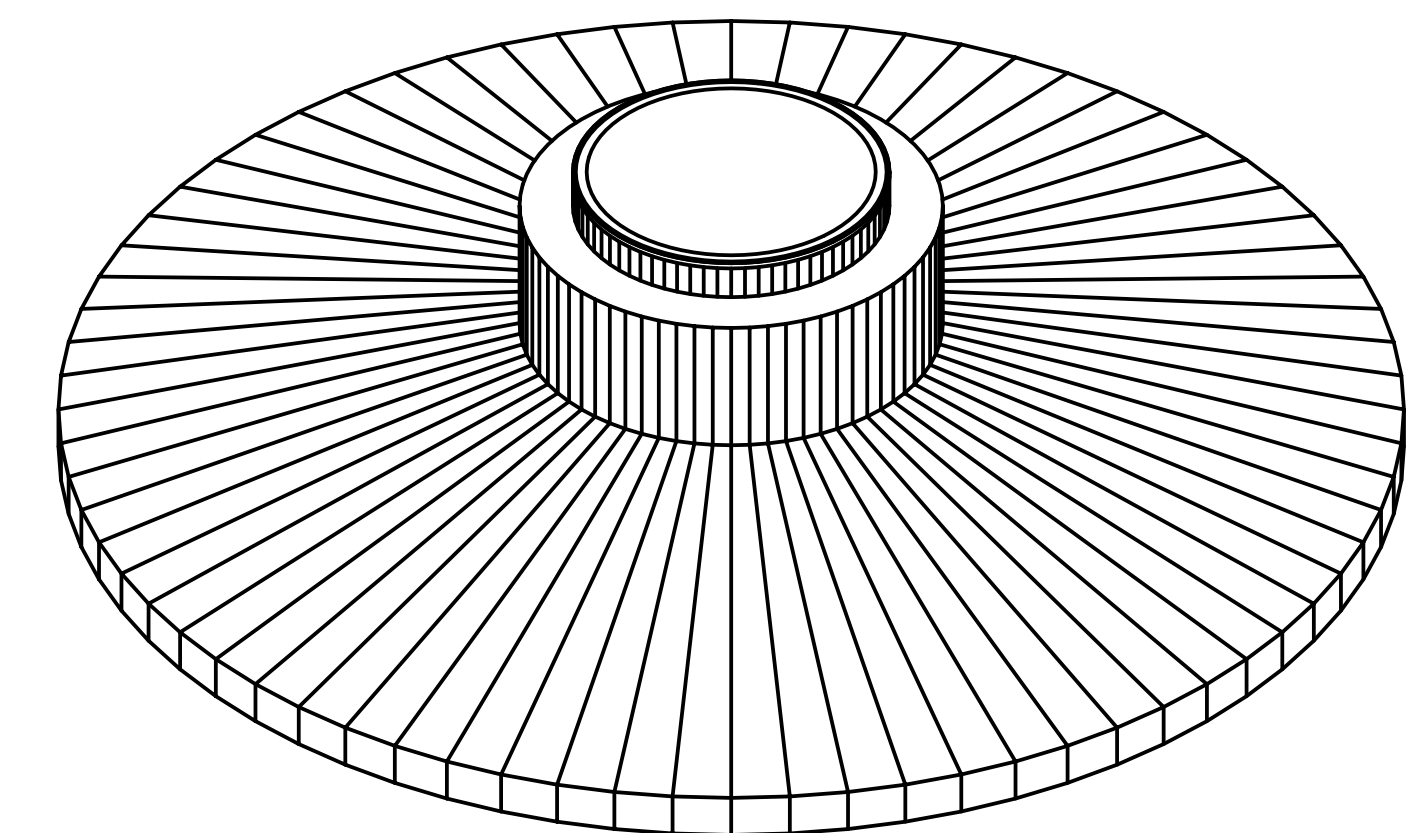
"Resumption of concrete" : (between slab and pedestal) The smooth surface of the concrete at the pedestal zone (in the resumption of concreting area) must be changed into a rough one. These areas should be treated to have a brush-coated surface.

The foundation will be realized according to the actual norms and rules. It's recommended to assure the protection of the excavation's bottom by immediately casting lean concrete after the excavation works. A temporary protection of the excavation will be necessary. The foundation will be built on a homogeneous soil. All puddles will be cleaned and be replaced by concrete.

NOTES

- The foundation base level has to be conformed with the soil report (lastest version). In any case, the foundation won't be undertaken without a verification by geotechnical engineers or by the controlling office. These verifications must be reported and are necessary for each gravity-base foundation.
- The lean concrete must reach the supporting soil level which offers an adequate bearing capacity.
- Considered water table: -2.20 m/TN.
- The foundation loads are applied by VVVV for the wind turbine: VVVV 2MW hh 80m
Document number: 12345678
Document number of embedment section: n°12345678
- The given spacers are indicative and are of the contractors responsibility.
- Caution: for the execution of this project, the VVVV's technical specifications must be strictly respected.
- The electrical pipes: The reinforcement may not be cut in favour of the pipes without the reinforcement according to the principle which is presented at drawings reinforcement. Minimal distance between the electrical pipe axes: 4xØ.
Pipes maximal diameter: 160mm.
- In any case, the foundation won't be undertaken without a verification of the reinforcement by the controlling office. These verifications must be reported, and are necessary for each periode of casting.
- The slab casting will be undertaken obligatory at dry weather and on a dry excavation surface.
- The position of the reinforcements N° (3) (inside) and N° (16) (outside) are mandatory, otherwise the embedment section can't be mounted.
- The recovering of the circular reinforcement has to be alternated. (see detail 1; positions (2), (4) to (7), (9) and (11) to (14) at the drawing 0000_023; positions (110) to (169) at the drawing 0000_021; positions (210) to (255) and (171) at the drawing 0000_022).
- The recovering of the circular reinforcement around of the pedestal has crosses (attention: the embedment shouldn't be touched). Those bars will be placed after the disposition of the embedment.
- The numbering of groups doesn't mean the chronological of the reinforcements placing.
- Protection against men fall: security covers in the attending steel bars have to be planned.
- The position n°(1) in the reinforcements drawing of pedestal has to placed at the same level and parallel to the position n°(100).
- The reinforcements which cross the embedment shouldn't touch it.
- Length in centimeter (cm) and level in meter (m)

PERSPECTIVE



Wind farm of ABCD
Location: FRANCE
Gravity-base foundation
type VVVV 2.0MW HH 80m

N° Affaire	Phase	Zone	N° drawing	Version
0000	PEO	-	020	-

FOUNDATIONS E1 to E18

FORMWORK DRAWING

date	Drawn by	Checked by	Modifications
18.02.10	BT	NDSIAM	1st delivery

Echelle (s) / Scale : 1/50

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