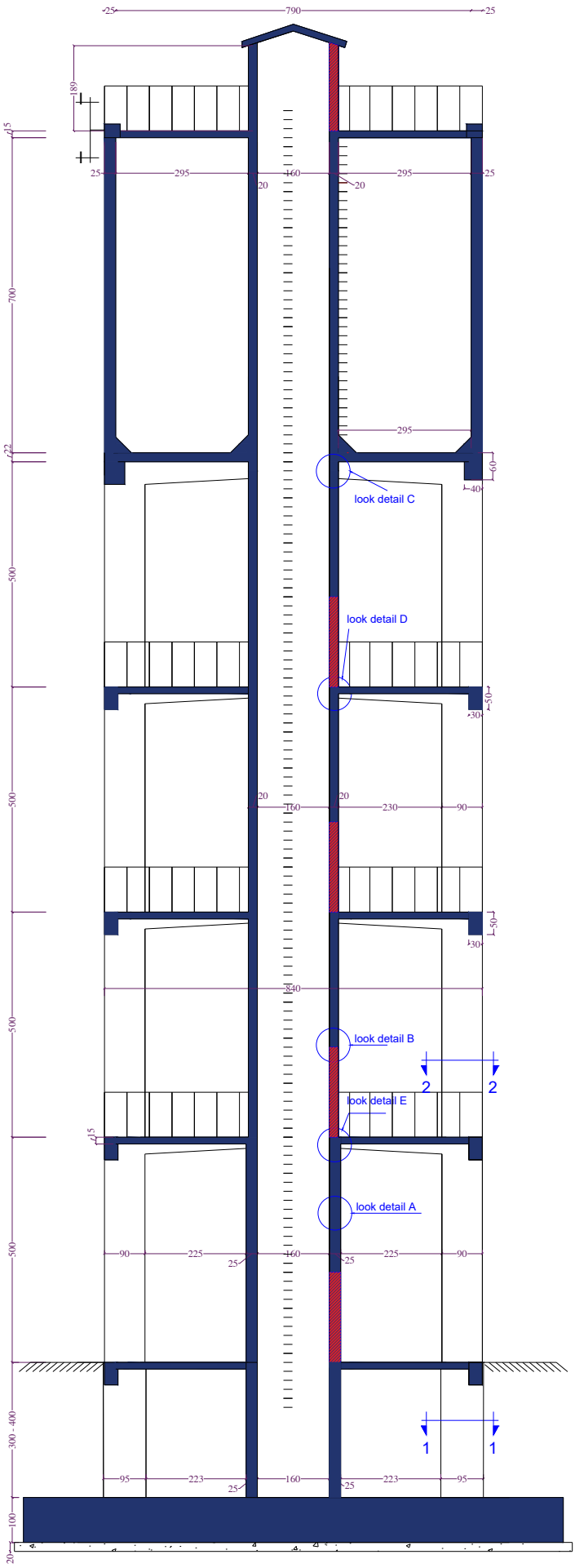
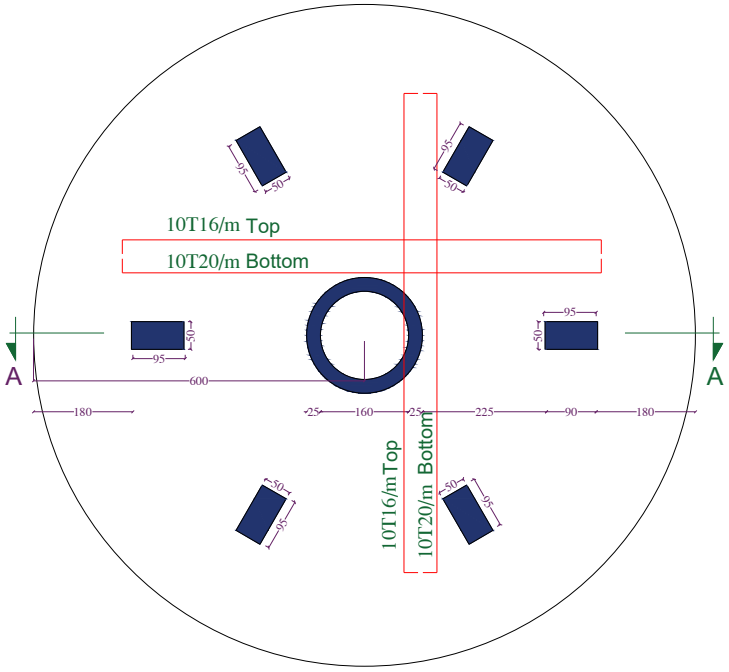
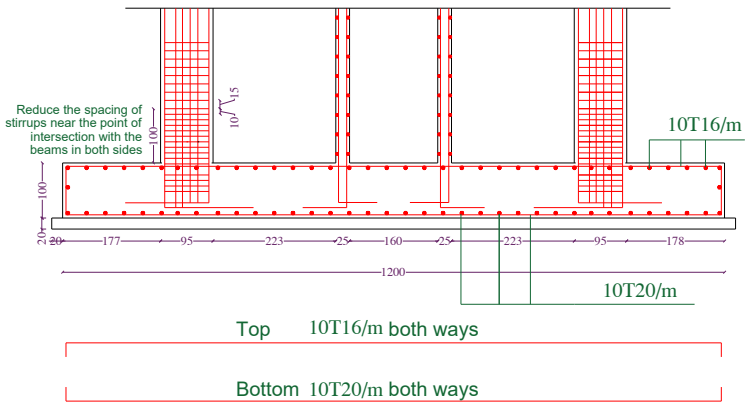


longitudinal section in the tank
scale 1/50



Layout of the raft
scale 1/50

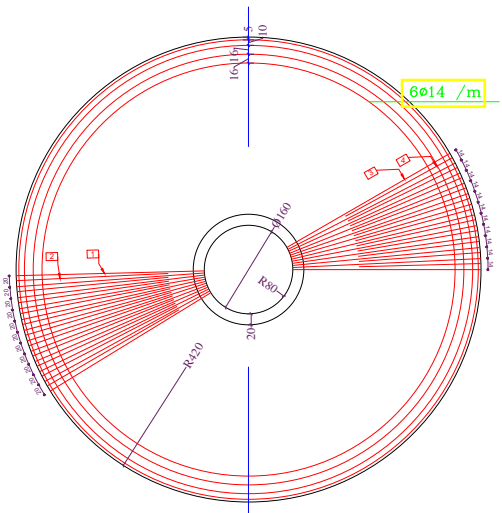


section A-A
scale 1/50

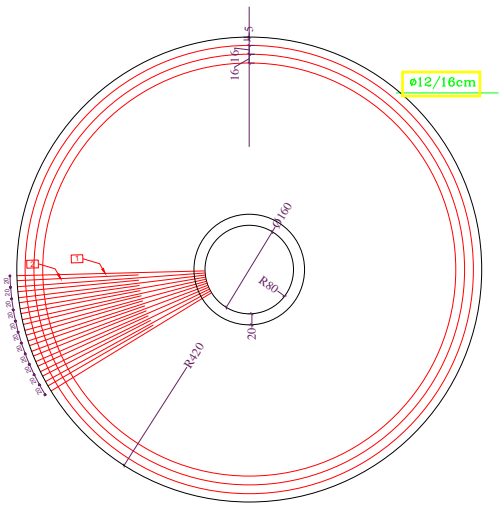
Remarks

- Inlet, outlet, and spillway pipes are installed based on the selected diameters during the casting process.
- Metal ladder is implemented inside the central concrete core.
- Ventilation openings are left within the central core wall during the casting process.
- External and internal waterproofing plaster is applied to the walls of the container.
- A 15cm thick solid slab is constructed at ground level, including natural surfaces and rest areas, reinforced with 7 x 12mm diameter bars per linear meter in both directions.
- The characteristic strength (yield stress) of deformed reinforcing steel is 4000 kg/cm² and it's symbol T.
- The characteristic strength (yield stress) of deformed reinforcing steel for stirrups is 3600 kg/cm² and it's symbol Ø.
- The characteristic compressive strength of concrete (15*30cm cylinders after 28 days) is 250 kg/cm²
- Fy = 4000 kg/cm²
- F'c = 250 kg/cm²
- If the soil bearing capacity is less than 2.5 kg/cm², special treatment of the foundations is required.

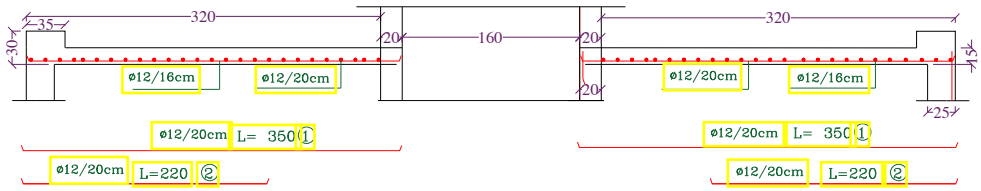
IDL-VFG-50252 - Elevated Water Tank Construction (Hiesh) - Appendix 4



reinforcement layout of tank floor
scale 1/50



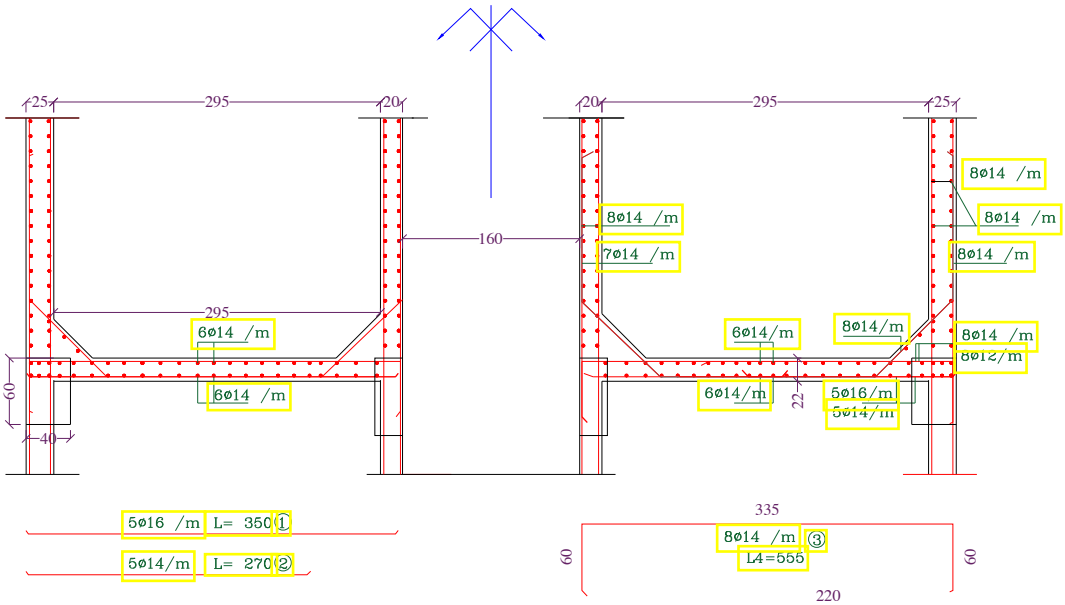
reinforcement layout of rest areas and tank roof
scale 1/50



longitudinal section in tank wall
scale 1/25

no. of rebars	rebar length cm	rebar diameter mm	ring #
1	780	ø14mm	1
1	890	ø14mm	2
2	550	ø14mm	3
2	610	ø14mm	4
2	660	ø14mm	5
2	710	ø14mm	6
2	770	ø14mm	7
2	820	ø14mm	8
2	880	ø14mm	9
2	930	ø14mm	10
2	990	ø14mm	11
2	1040	ø14mm	12
2	1100	ø14mm	13
3	800	ø14mm	14
3	840	ø14mm	15
3	870	ø14mm	16
3	910	ø14mm	17
3	950	ø14mm	18
3	980	ø14mm	19

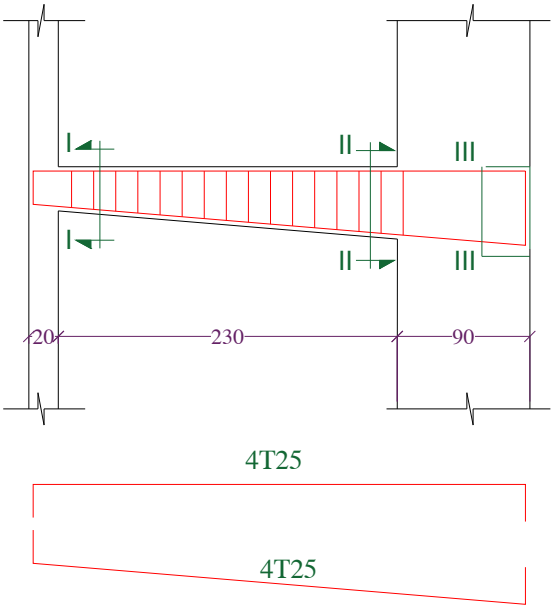
table of reinforcement of tank floor



longitudinal section in tank floor
scale 1/25

no. of rebars	rebar length cm	rebar diameter mm	ring #
1	780	ø12mm	1
1	890	ø12mm	2
2	550	ø12mm	3
2	610	ø12mm	4
2	660	ø12mm	5
2	710	ø12mm	6
2	770	ø12mm	7
2	820	ø12mm	8
2	880	ø12mm	9
2	930	ø12mm	10
2	990	ø12mm	11
2	1040	ø12mm	12
2	1100	ø12mm	13
3	800	ø12mm	14
3	840	ø12mm	15
3	870	ø12mm	16
3	910	ø12mm	17
3	950	ø12mm	18
3	980	ø12mm	19

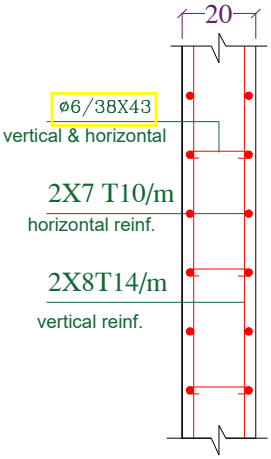
table of reinforcement of tank roof



longitudinal section of the radial beam

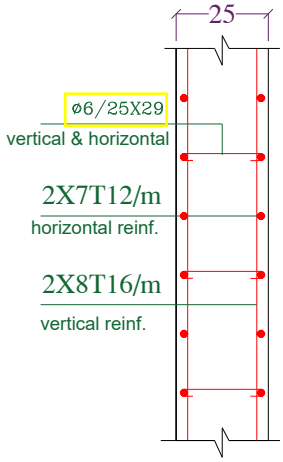
section A-A

scale 1/25



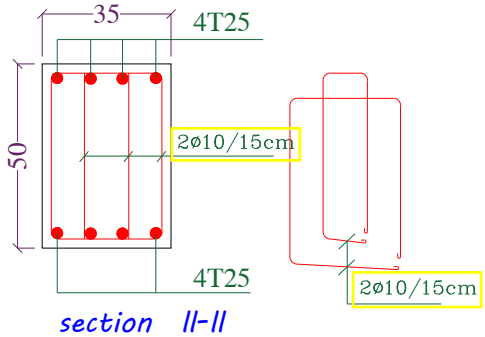
Detail B

scale 1/10



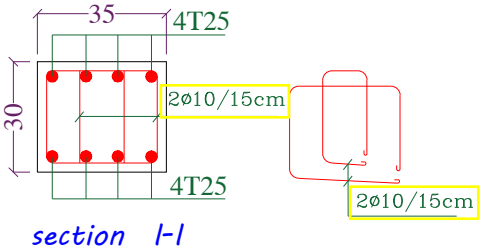
Detail A

scale 1/10



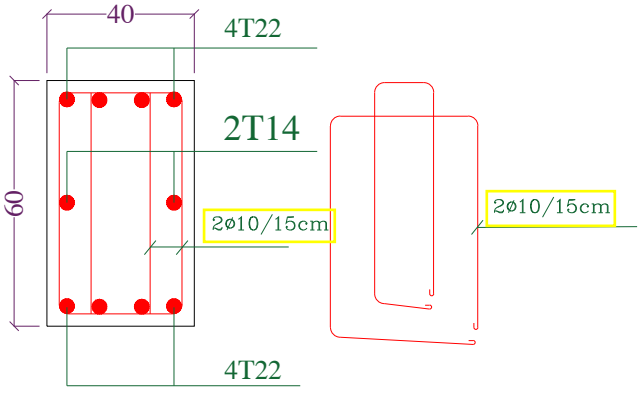
section II-II

scale 1/10



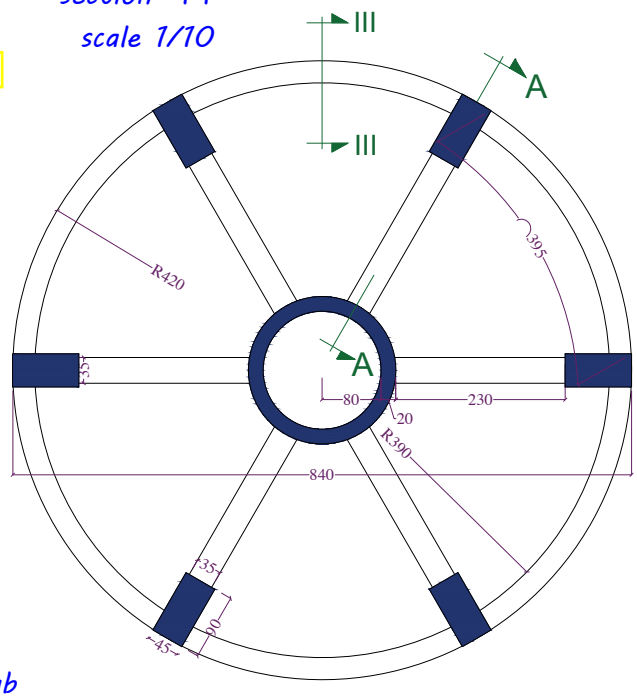
section I-I

scale 1/10



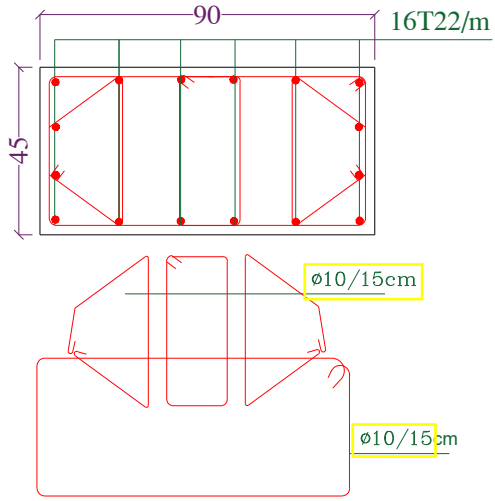
Longitudinal section of the ring beam under the slab

scale 1/10

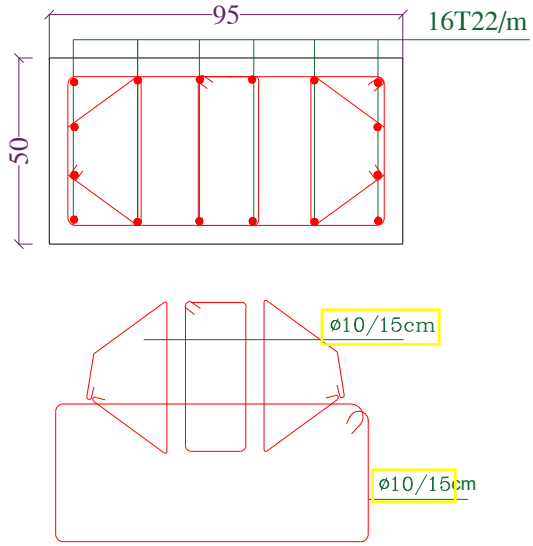


layout of ring and radial beams

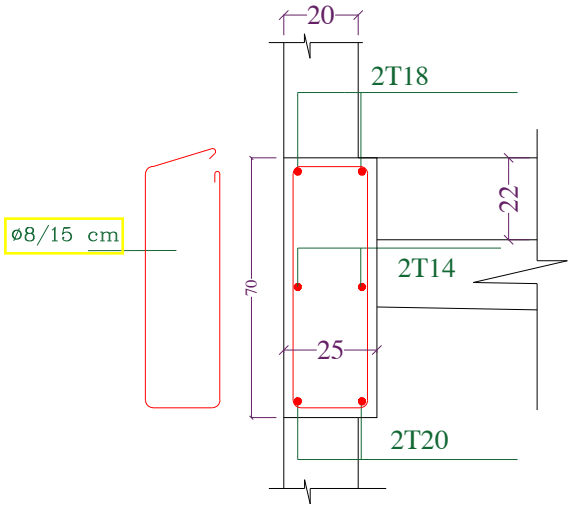
scale 1/50



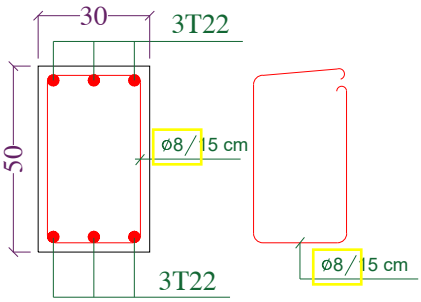
section 2-2
scale 1/10



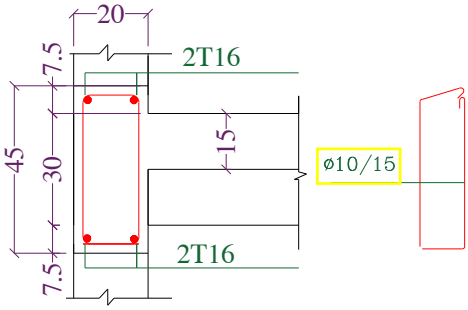
section 1-1
scale 1/10



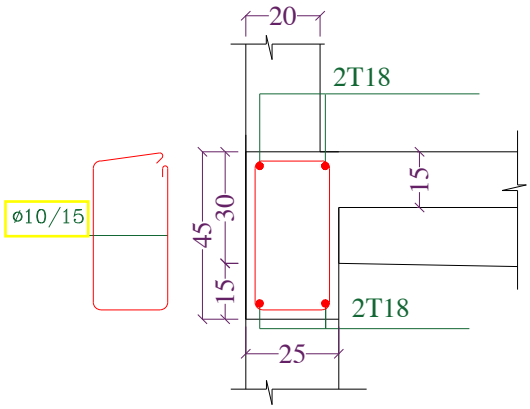
Detail C
connection of radial beam and central core
scale 1/10



Section in ring bream
section III-III
scale 1/10



Detail D
connection of radial beam and central core
scale 1/10



Detail E
connection of radial beam and central core
scale 1/10

Note: Core and slab reinforcement are not shown.

HEISH HIGH TANK

location
35.550020°
36.641675°

Legend

- Heish northern water station
- High tank 300m3

High tank

Heish northern water station

Falafel Restaurant

N

100 m