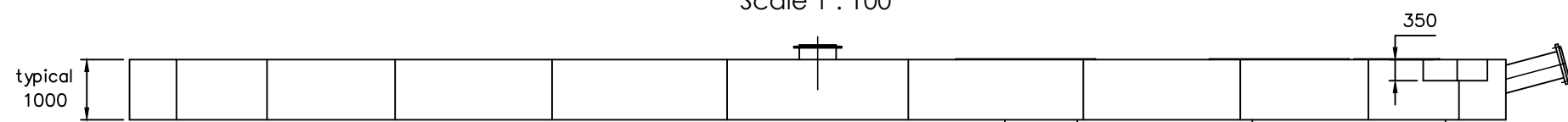
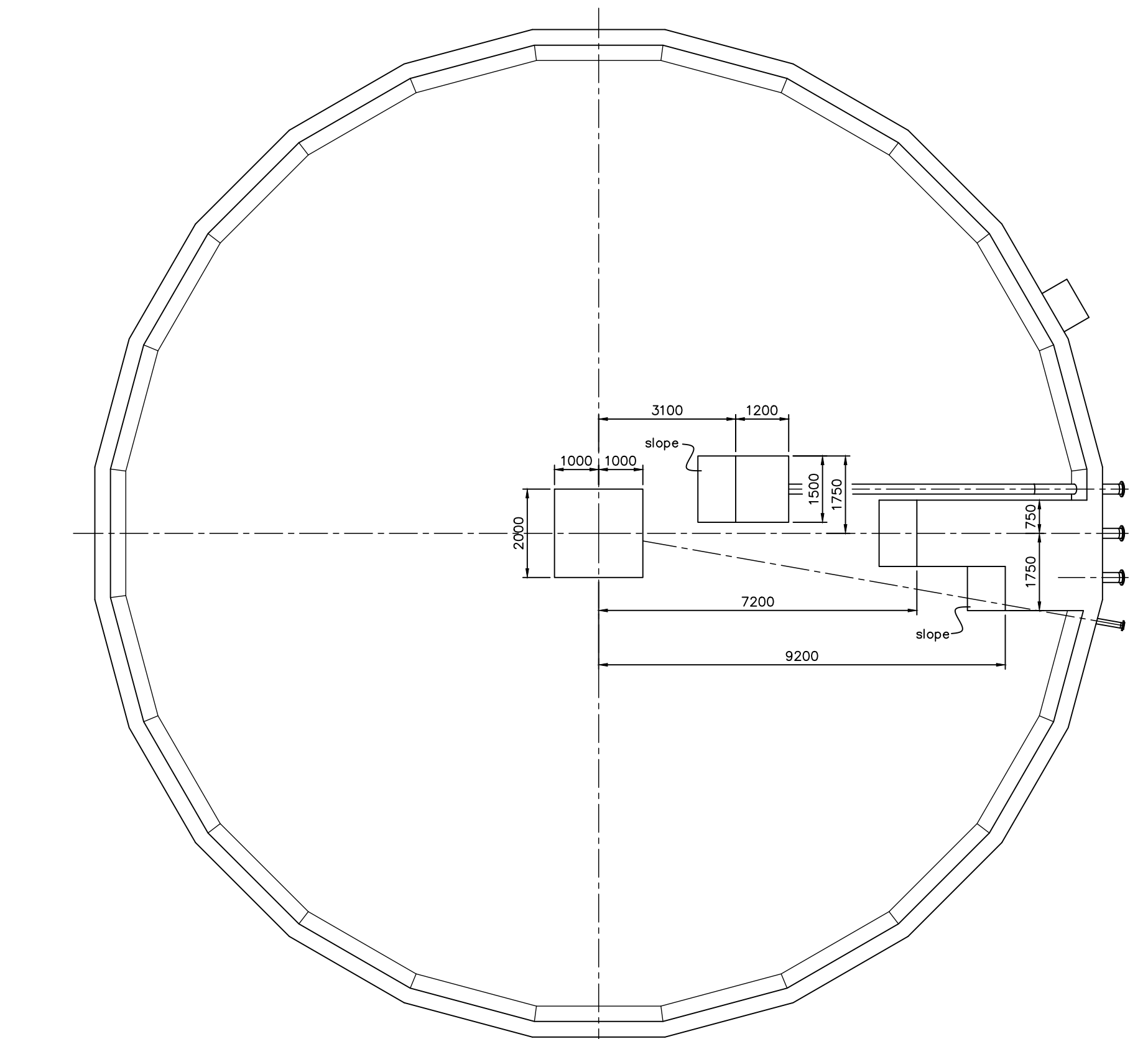


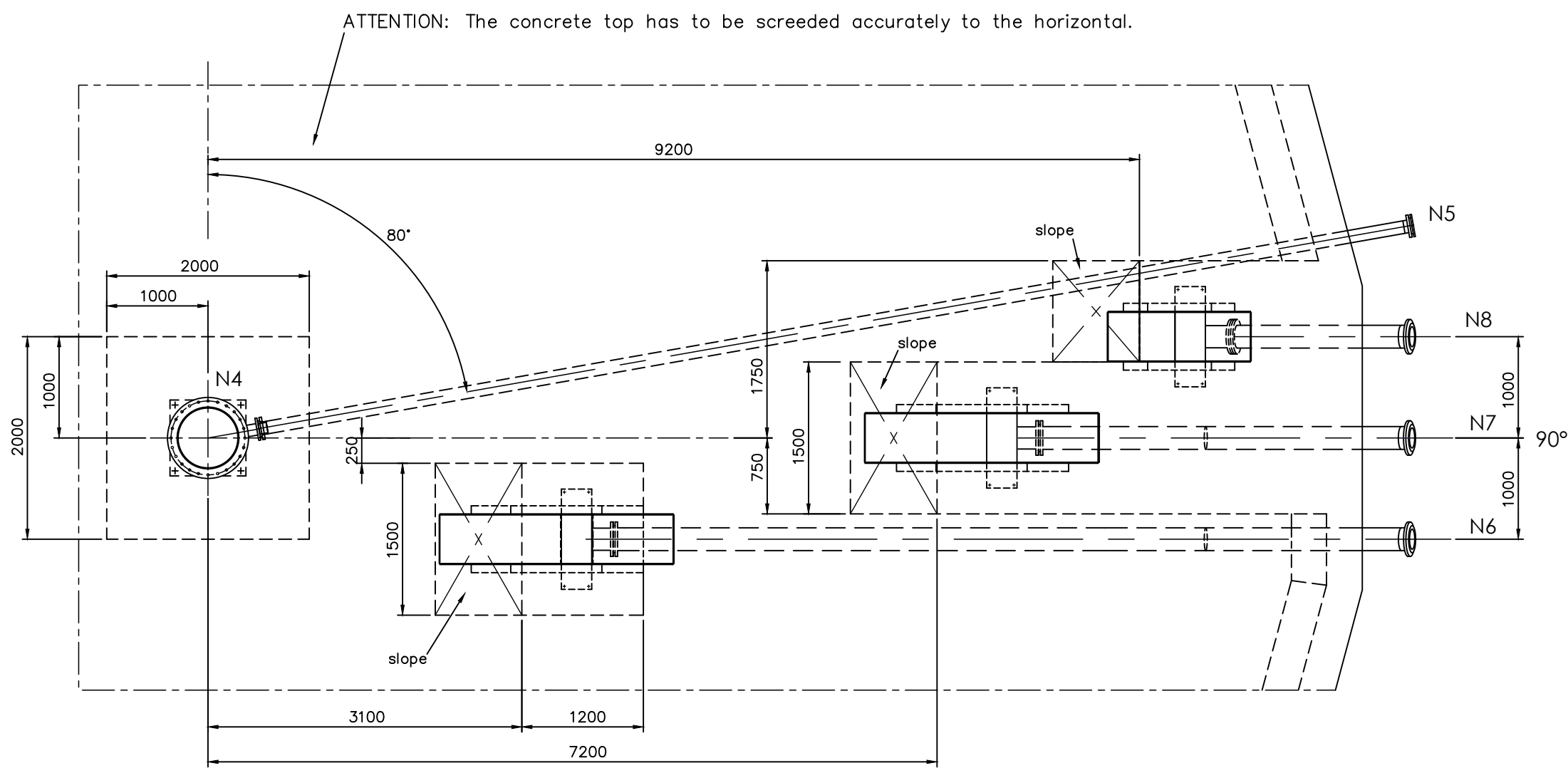
Top View  
Scale 1 : 100



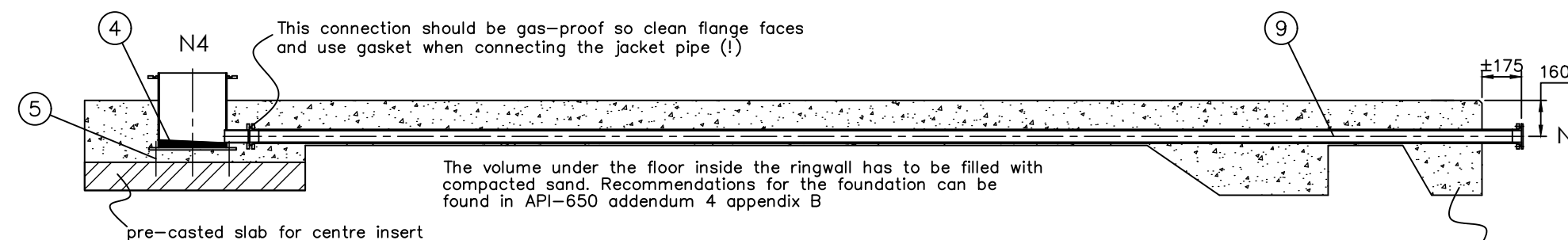
Side View  
Scale 1 : 100



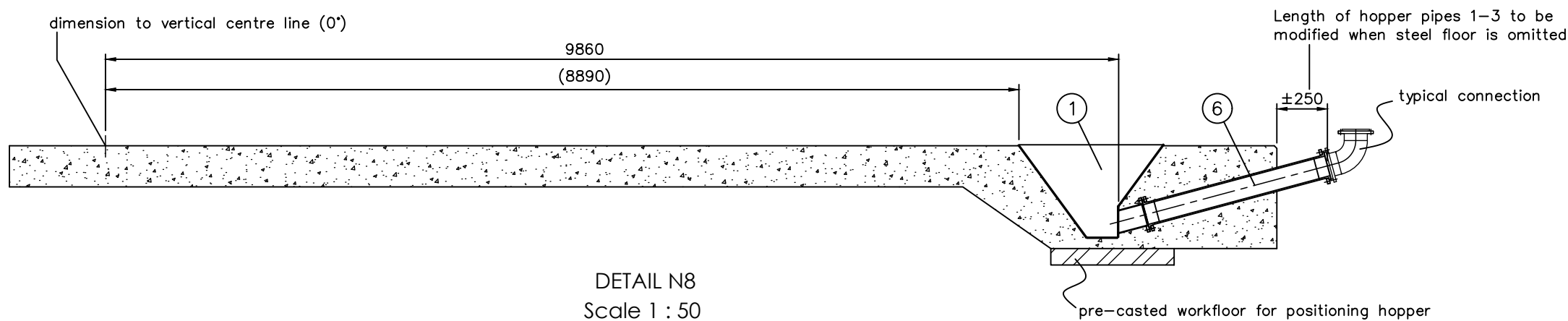
Bottom view  
Scale 1 : 100



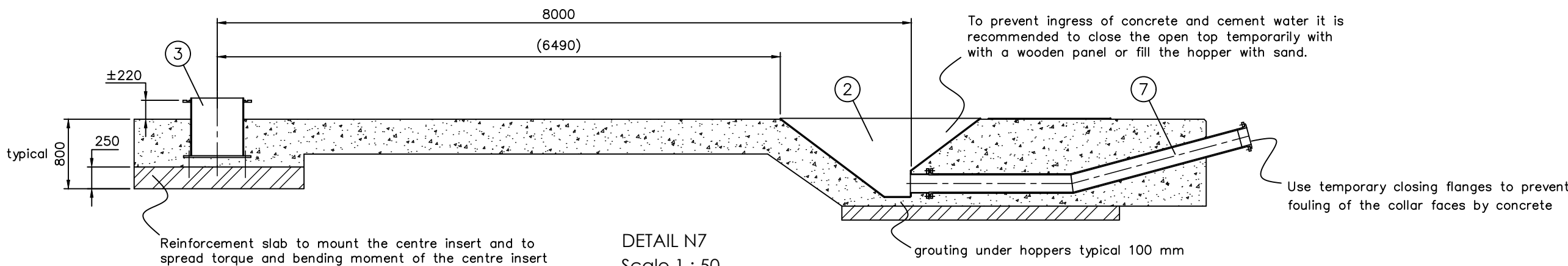
DETAIL N4-N8  
Scale 1 : 50



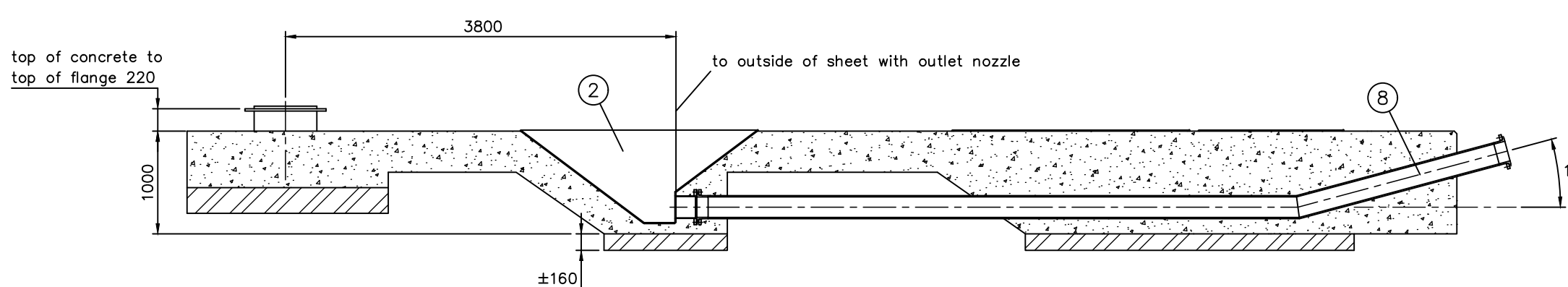
DETAIL N5  
Scale 1 : 50



DETAIL N8  
Scale 1 : 50



DETAIL N7  
Scale 1 : 50



DETAIL N6  
Scale 1 : 50

These details have to be modified by the civil engineer when a different type of foundation is required e.g. pile supports.

NO.	Size
N4	ø600
N5	DN100
N6	DN200
N7	DN200
N8	DN200

NO.	QTY.	Description
1	1	Hopper 1
2	2	Hopper 2
3	1	Centre insert
4	1	Grouting inside centre insert
5	1	Fixation anchors hoppers & center insert
6	1	Sludge pipe hopper 1 HDPE
7	1	Sludge pipe hopper 2 HDPE
8	1	Sludge pipe hopper 3 HDPE
9	1	Jacket pipe hydraulic HDPE

#### PARAMETERS TANK:

Diameter: ø 22 m ,– HOLD  
Wall height: 17.6 m <– HOLD  
Angle roof: 1::5 (11,3 °) <– HOLD  
Content level normal working conditions: 16.6 m  
Content level max: 17.4 m (elevation overflow connection)  
Density content: 1060 kg/m<sup>3</sup>  
Mass empty tank: approximately 150 ton (1.5 MN)  
Location: Wijster Drenthe Netherlands

#### DESIGN PARAMETERS:

Design standard: EN14015 <– HOLD for bolted tanks  
Internal pressure tank: 50 mbar  
Internal negative pressure tank: 5 mbar  
Basic wind speed: ? m/s <– HOLD  
Wind shape factor tank: according to design standard  
Wind friction factor roof/handrills: acc. to design standard  
Snow load factors: to be determined (HOLD)  
Seismic parameters: HOLD  
Seismic parameters: ground type: HOLD  
Live load roof: to be determined (HOLD)

#### LOADS ON SLAB:

Mass tank and content nominal: 6840 ton (68.4 MN)  
Mass tank and content maximal: 7160 ton (71.6 MN)  
Wind shear load: HOLD  
Wind overturning moment: HOLD  
Seismic shear load: HOLD  
Seismic overturning moment: HOLD

#### LOADS ON CENTRE INSERT:

Vertical load water pressure on square plate: 10 ton (100 kN)  
Torque: 5 tonm (50 kNm)  
Bending moment worst case: 4 tonm (40 kNm)

#### LOADS ON HOPPERS:

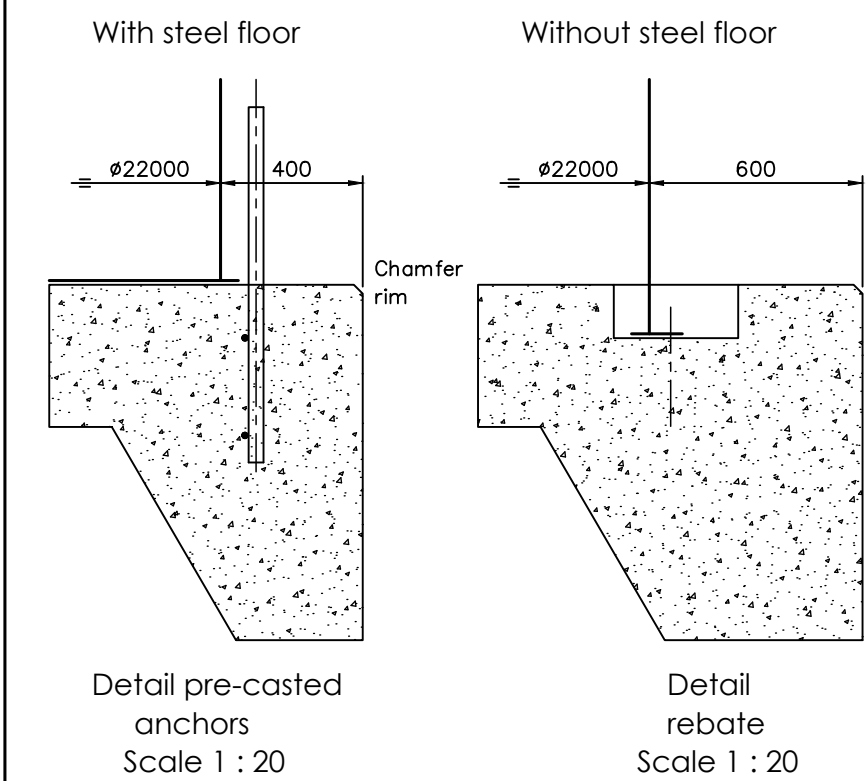
Vertical water load hopper 1: 12 ton (120 kN)  
Floating uplift during casting concrete: approx. 0.4 ton (4 kN)  
Vertical water load hopper 2: 19.5 ton (19.5 kN)  
Floating uplift during casting concrete: approx. 0.2 ton (2 kN)  
Uplift load is floating force minus dead weight

#### ANCHORS TANK:

The slab is provided with typical 24 anchor saddles.  
Anchor rods minimal M30  
More anchors with smaller diameter is also possible  
Proposal is to cast the anchor rods directly in the slab  
Final make to be decided by tank builder and civil contractor.

#### REMARKS:

This design covers the basic engineering requirements.  
Detailed design of the foundation structure by civil engineers is required prior to the manufacturing thereof. For example application of piles, soil stabilisation, windload, etc.  
It is civil manufacturer's and contractor's responsibility to ensure that total design is conform all applicable codes and national statutory regulations, and to obtain all necessary approvals from statutory authorities



–	–	TJO	N.A.	26–11–2019
Rev. nr:	Rev. description:	Drawn:	Check:	Date:
Project: Green Create - Wijster W2V				
Description: CBD 22x17.6 m concrete slab with inserts				
Final	Sign	Date	Project nr.: –	
Drawn.	TJO	26–11–2019	Client: Green Create	
Chkd.	–	–	Drawing status: For quotation	
Appd.	–	–	Drawing ID: –	
Projection: ①		Units: mm	Scale: 1=100	Form: A1 841x594

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