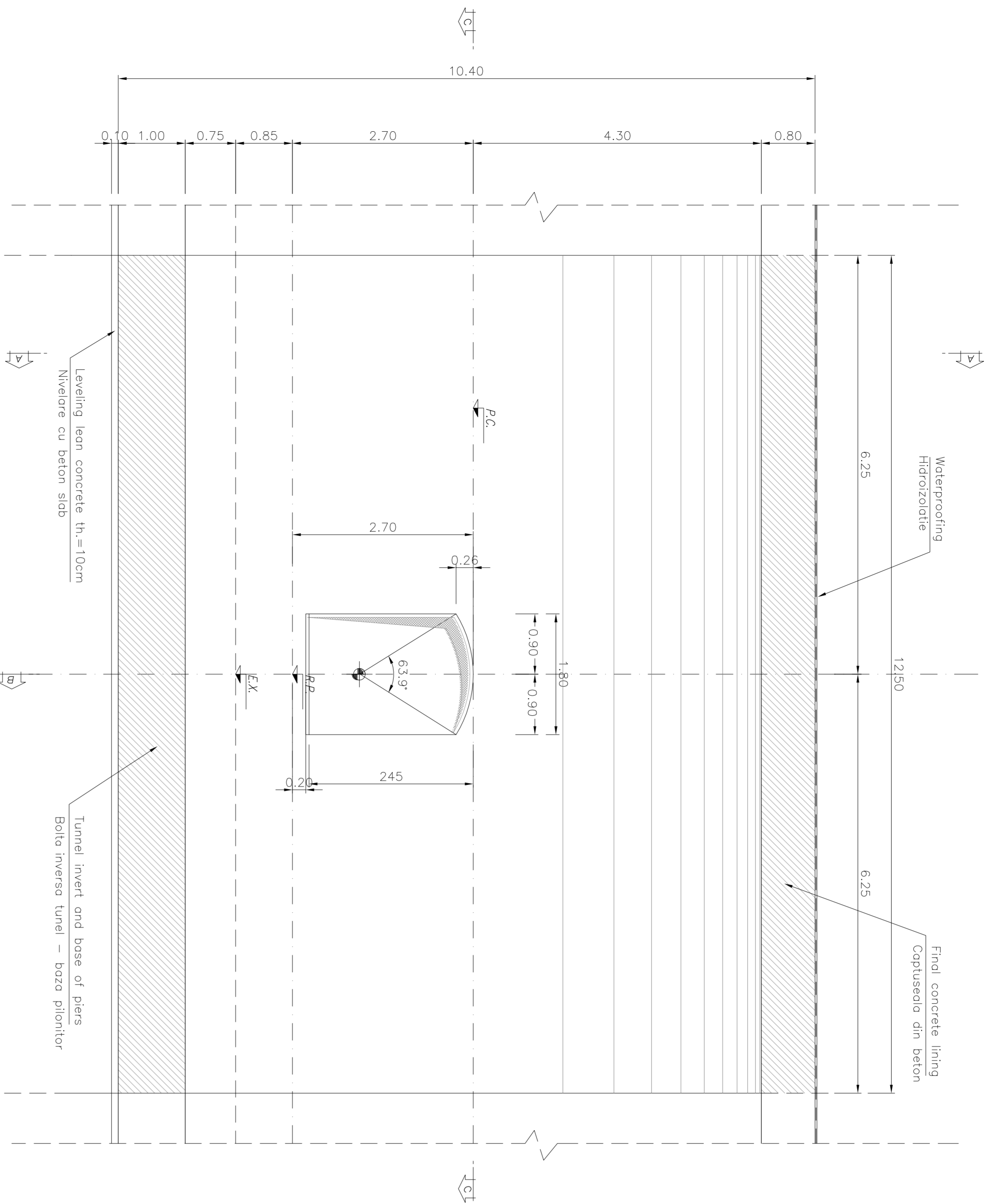
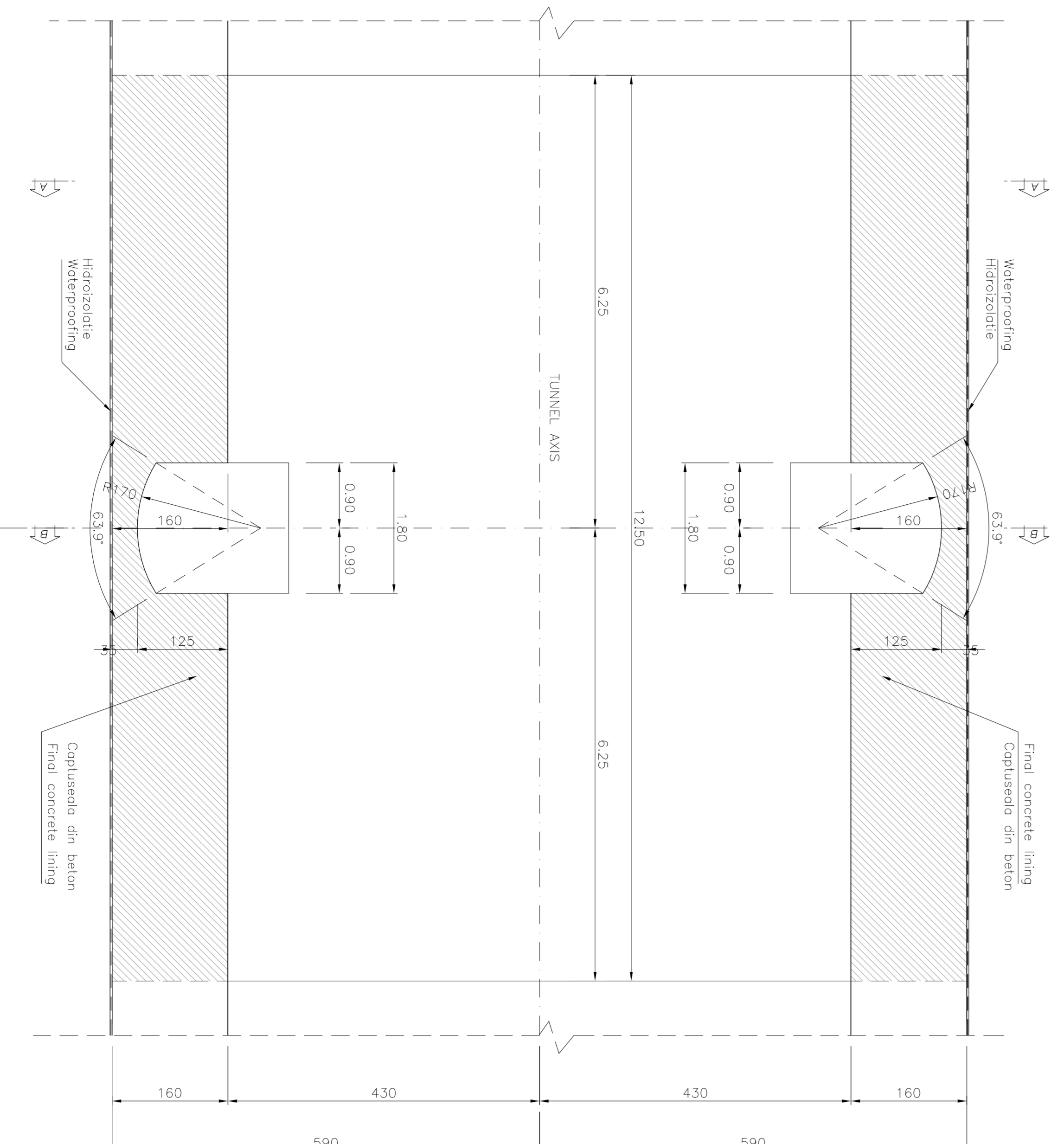


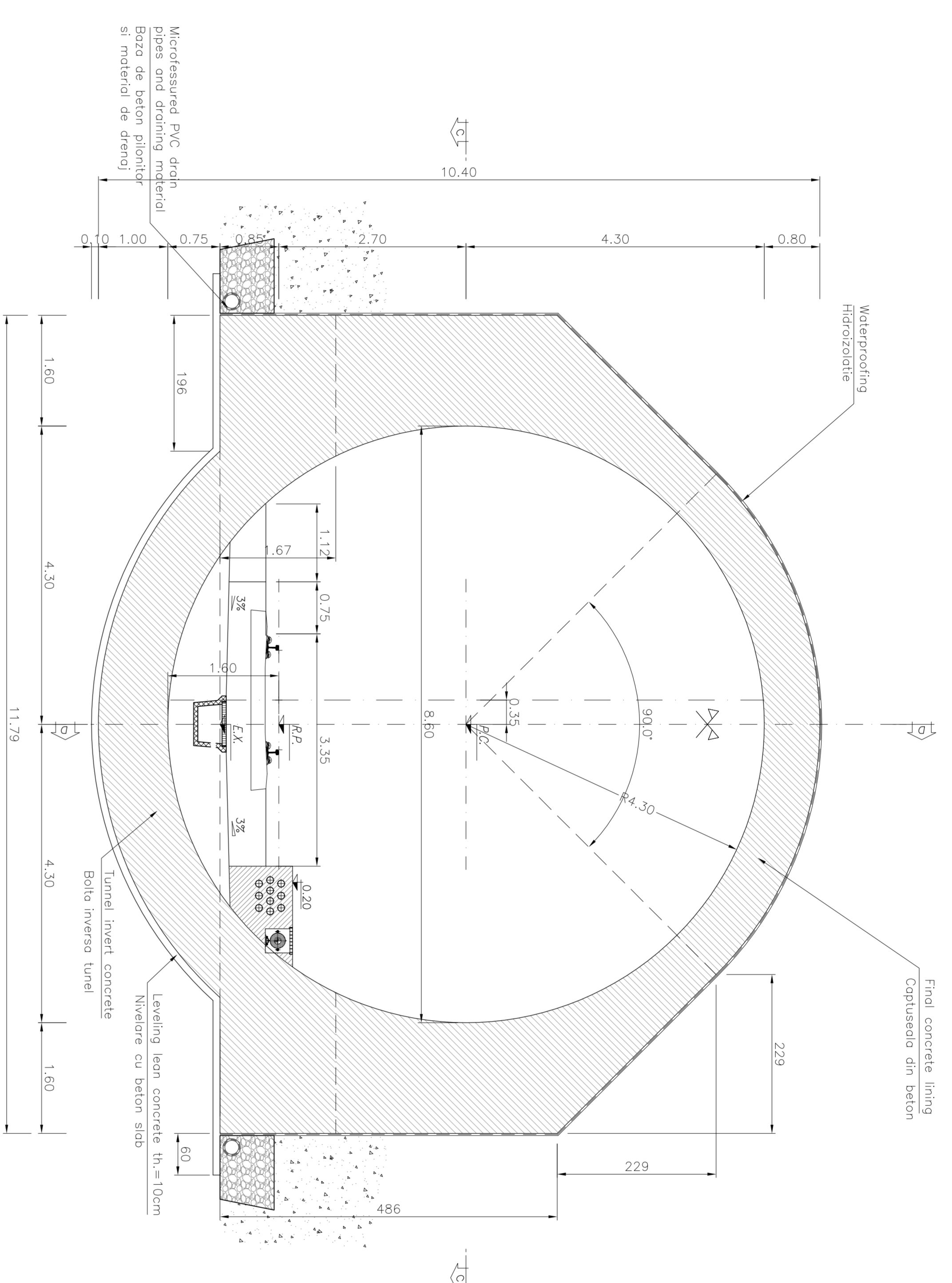
SECTION D-D
Scale/Scara 1:50



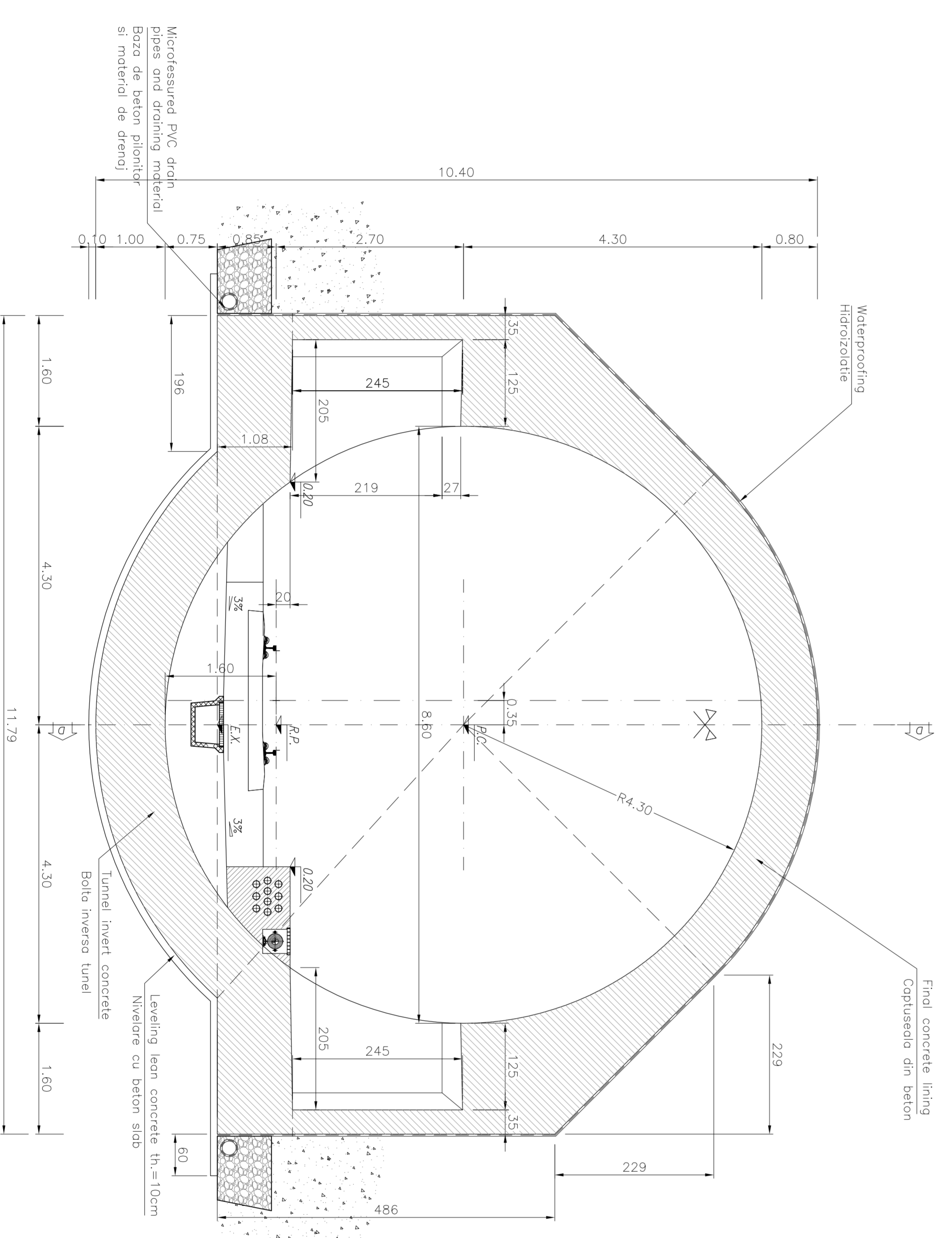
SECTION C-C
Scale/Scara 1:50



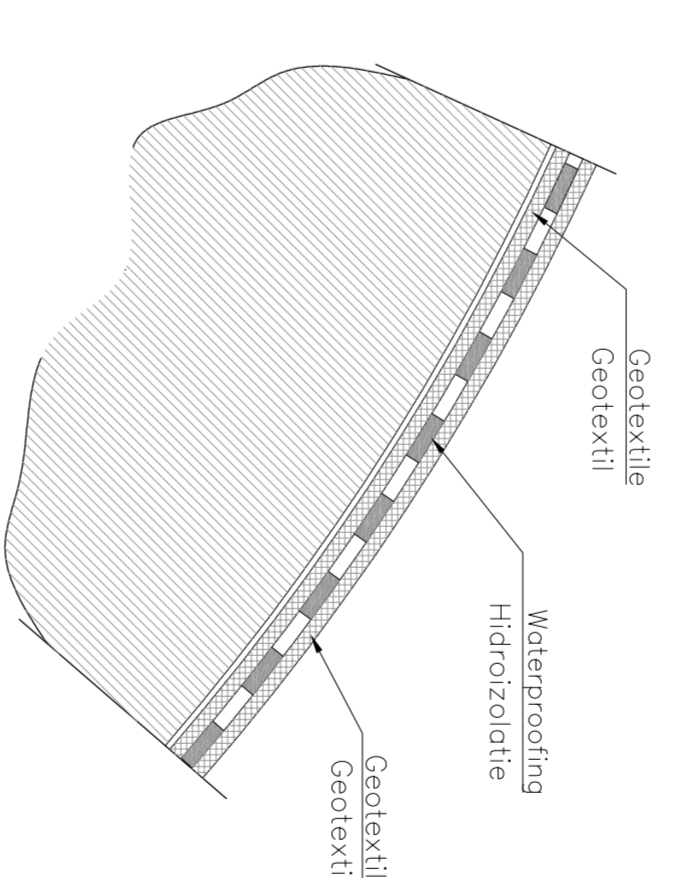
SECTION A-A
Scale/Scara 1:50



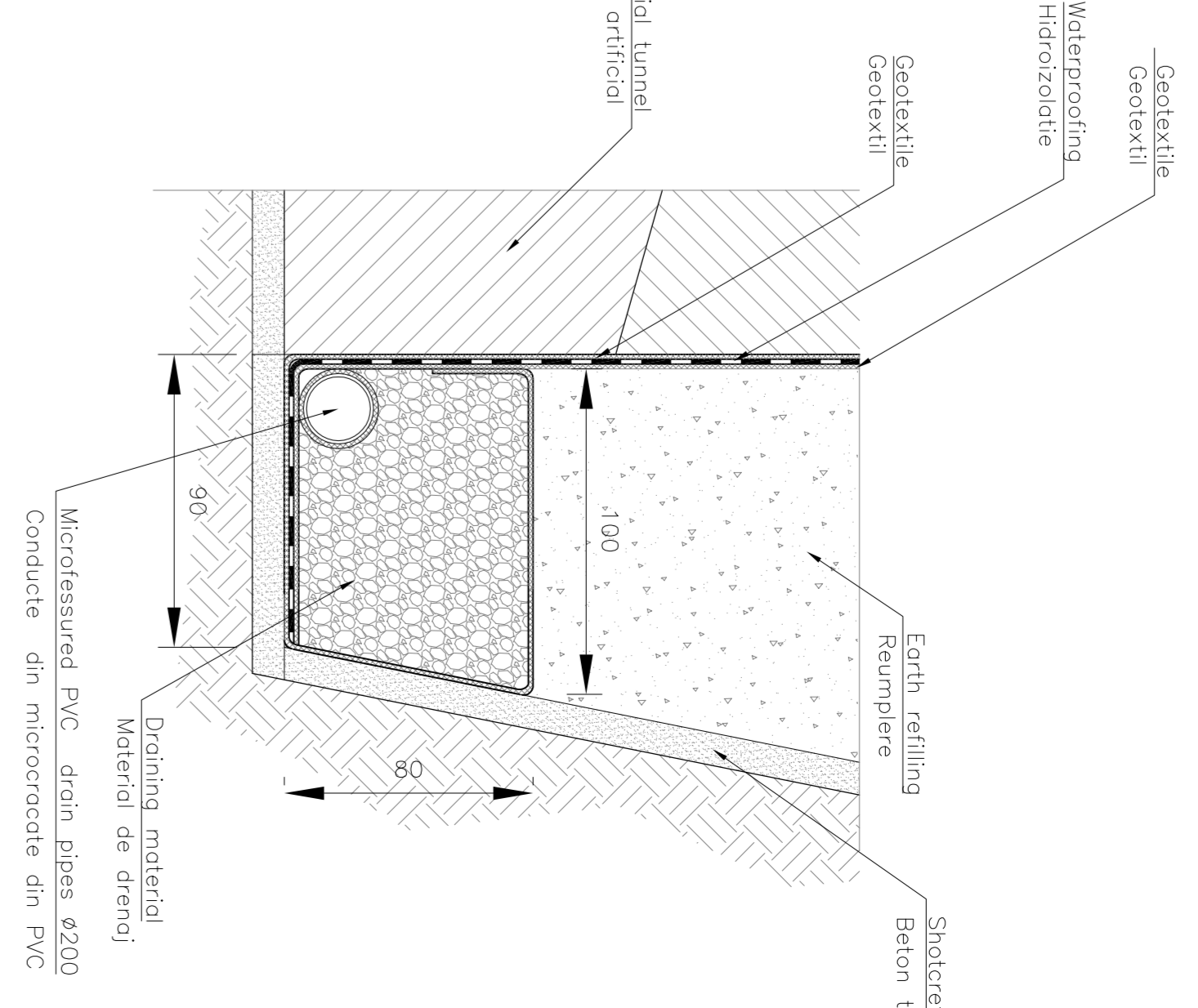
SECTION WITH SHELTER STAFF NICHE B-B
Scale/Scara 1:50



WATERPROOFING TUNNEL CROWN DETAIL
DETALIUl COROANA TUNELULUI HIDROIZOLATIEI
Scale/Scara 1:20



WATERPROOFING PIER DETAIL
DETALIUl PLONILOR HIDROIZOLATIEI
Scale/Scara 1:20



MATERIAL TABLE

TUNNEL INVERT CONCRETE	
- Type C2	Water/cement ratio 0.250
- $16\phi\ 3\text{--}20$ MPa	Exposure class related to environmental conditions: X2
- $10\phi\ 3\text{--}20$ MPa	Exposure class related to environmental conditions: X2
- Minimum structural class S3/S4	Concrete type C24 / IV
- Exposure class related to environmental conditions: X2	Concrete type C24 / IV
- Class of chloride content: Cl 0.20	Concrete type C24 / IV
- ϕ max aggregate = 32 mm	Concrete type C24 / IV
TUNNEL CROWN CONCRETE	
- Type C1	Water/cement ratio 0.250
- $16\phi\ 3\text{--}20$ MPa	Exposure class related to environmental conditions: X2
- $10\phi\ 3\text{--}20$ MPa	Exposure class related to environmental conditions: X2
- Minimum structural class S3/S4	Concrete type C24 / IV
- Exposure class related to environmental conditions: X2	Concrete type C24 / IV
- Class of chloride content: Cl 0.20	Concrete type C24 / IV
- ϕ max aggregate = 32 mm	Concrete type C24 / IV
REINFORCING STEEL	
- B450C certified by establishment	
- Not used	
LEAK CONCRETE	
- Type 1	
- Type 1	
- Cement type EM IV	

LEGEND

RP = REFERENCE PLANE
EX = EXCAVATIONS PLANE
PC = CENTERS PLANE

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CLIENT / CLIENT	
C.N.C.F. "C.F.R." - S.A.	
CONSULTANT / CONSULTANT	
SUBCONSULTANT / SUBCONSULTANT	

NOTE:
- Horizontal shafts are installed approximately at 1 m above roadway providing a route to a safe area (4.2.2.1, Escape Wayways ISY).

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NOTE:
- Escape signs shall be installed on the side walls at a maximum distance between escape signs of 50m (4.2.2.9 Escape Signage ISY).

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