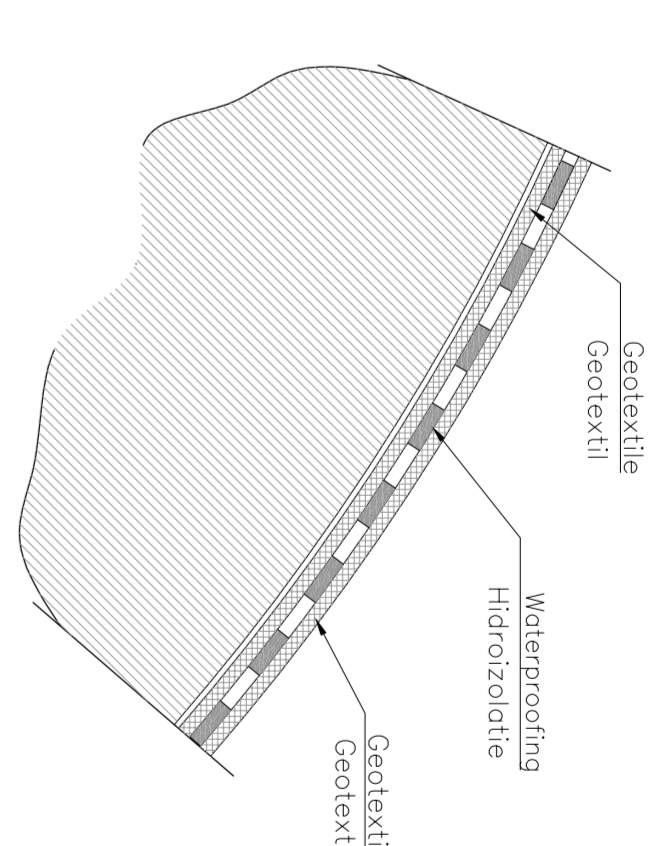
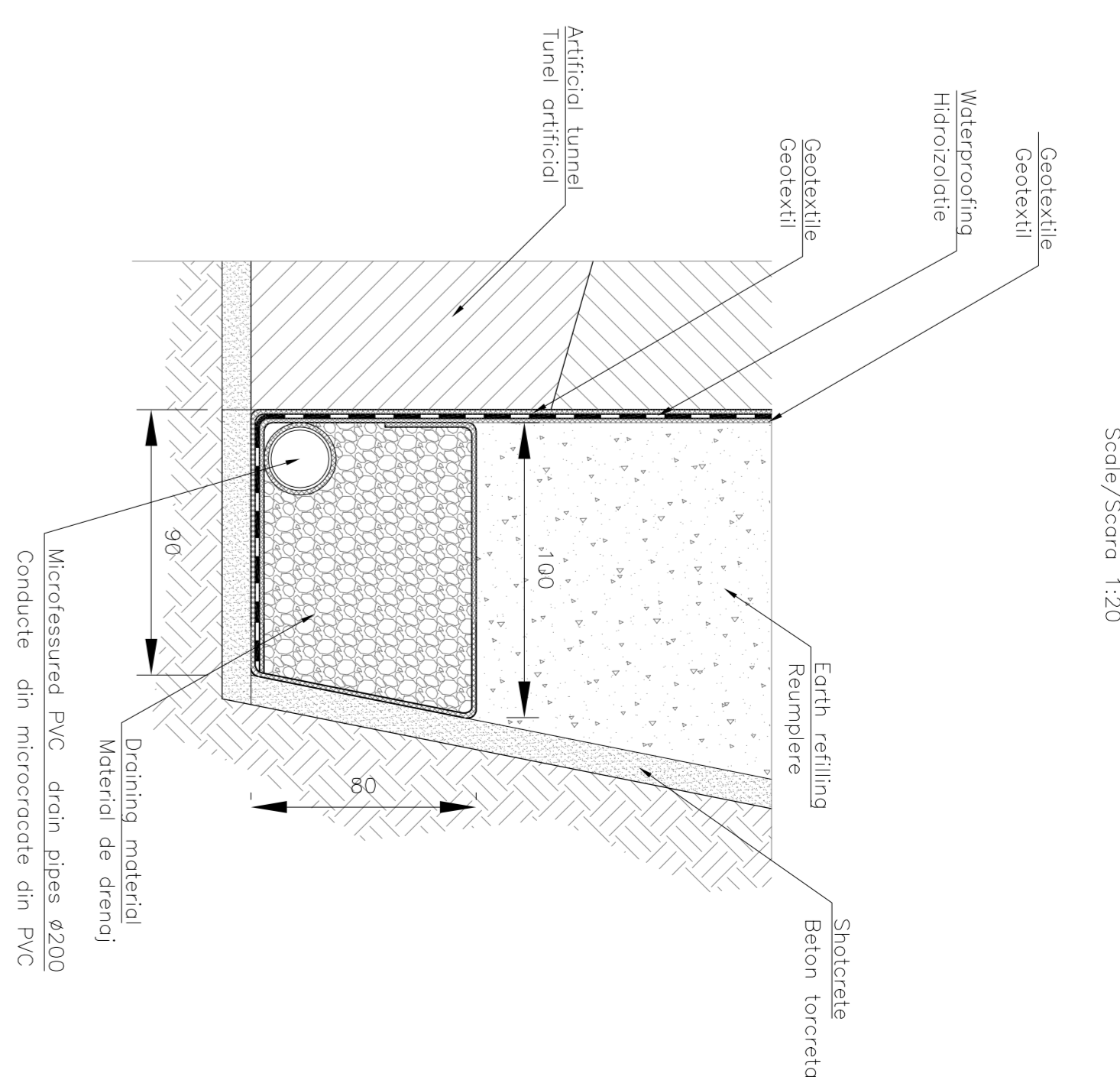


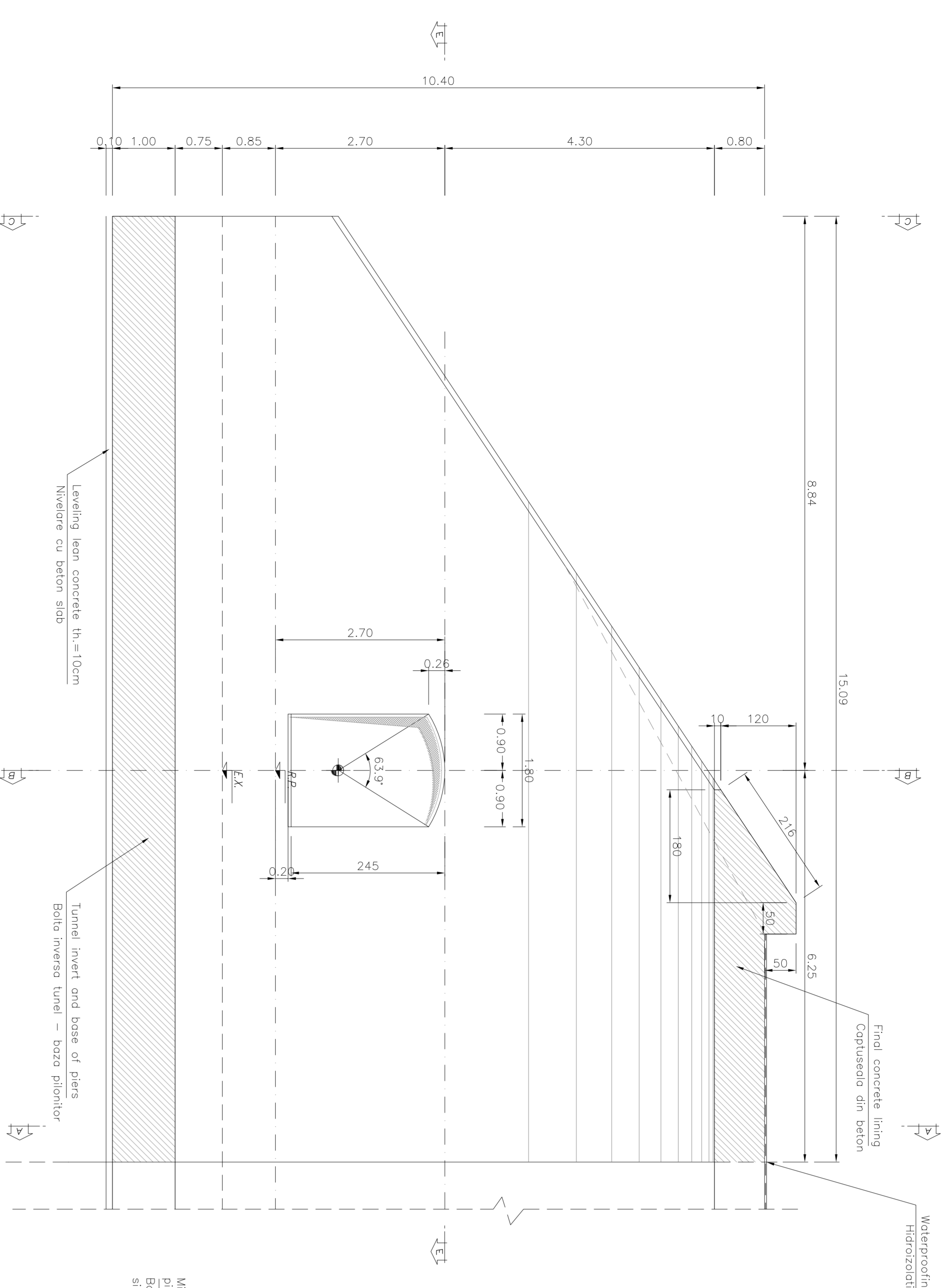
WATERPROOFING TUNNEL CROWN DETAIL
DETALIUL COROANA TUNELULUI HIDROIZOLATIEI
Scale/Scara 1:30



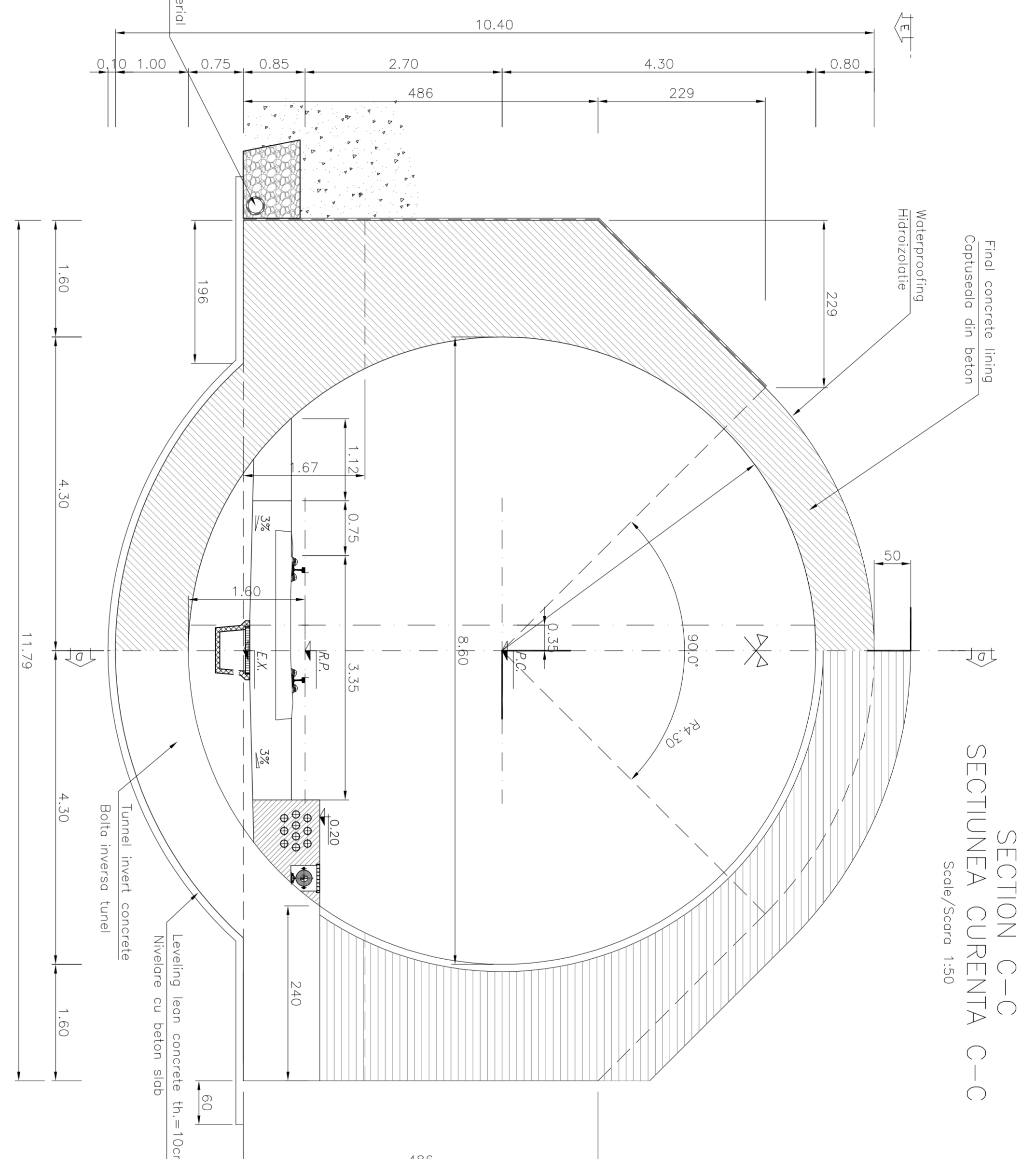
WATERPROOFING PIER DETAIL
DETALIUL PILONILOR HIDROIZOLATIEI
Scale/Scara 1:30



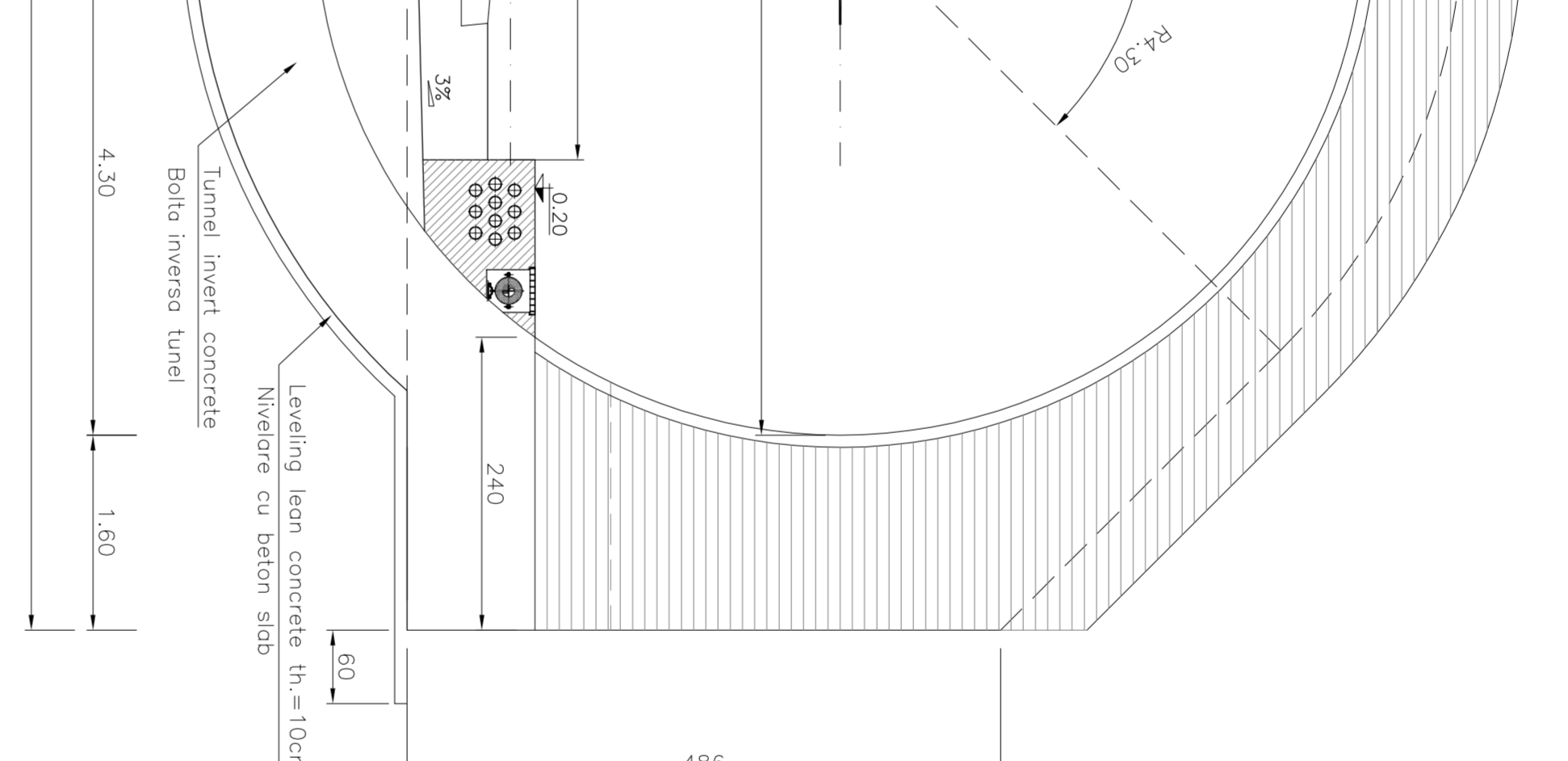
SECTION D-D
SECTIUNEA CURENTA D-D
Scale/Scara 1:50



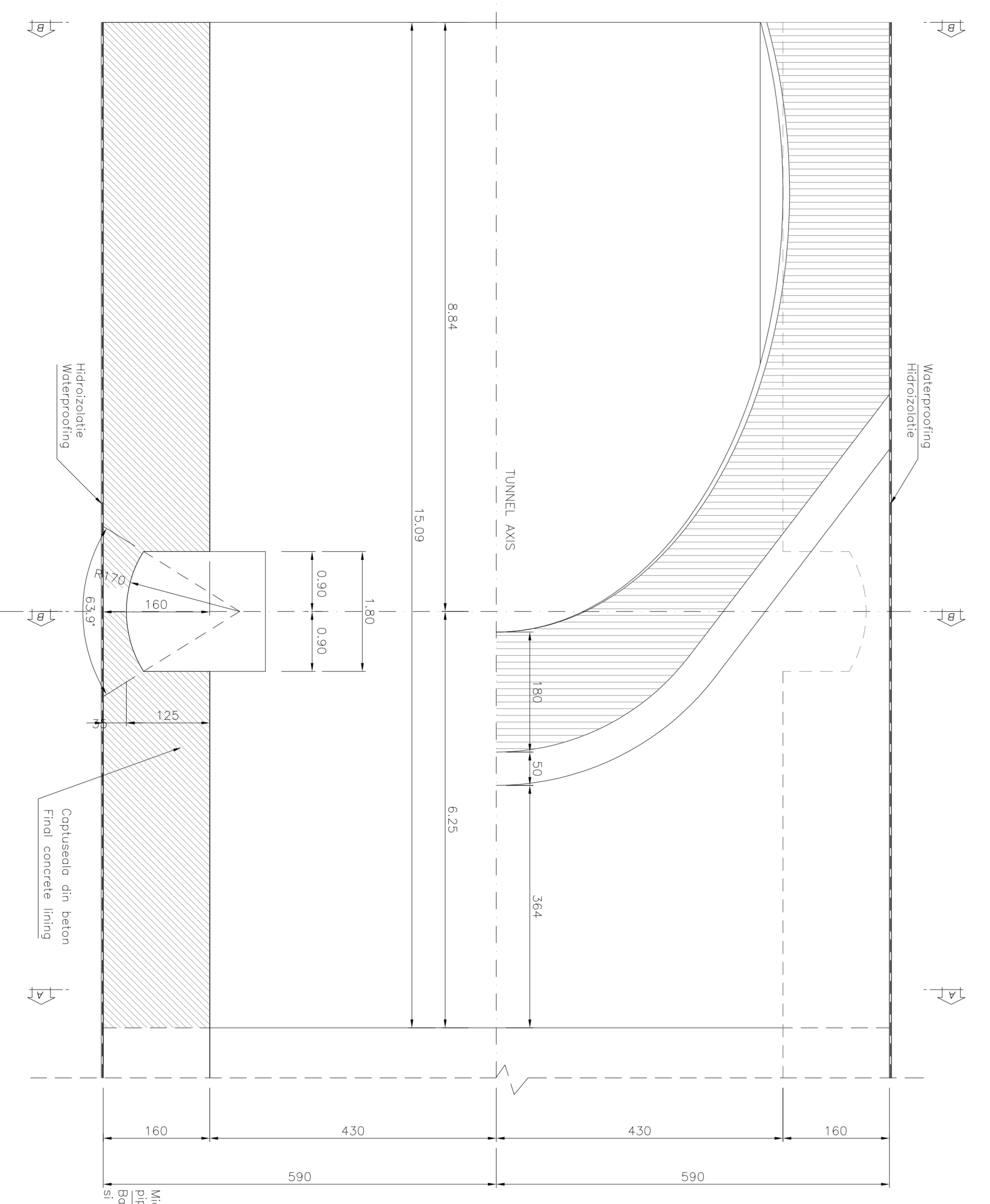
SECTION A-A
SECTIUNEA CURENTA A-A
Scale/Scara 1:50



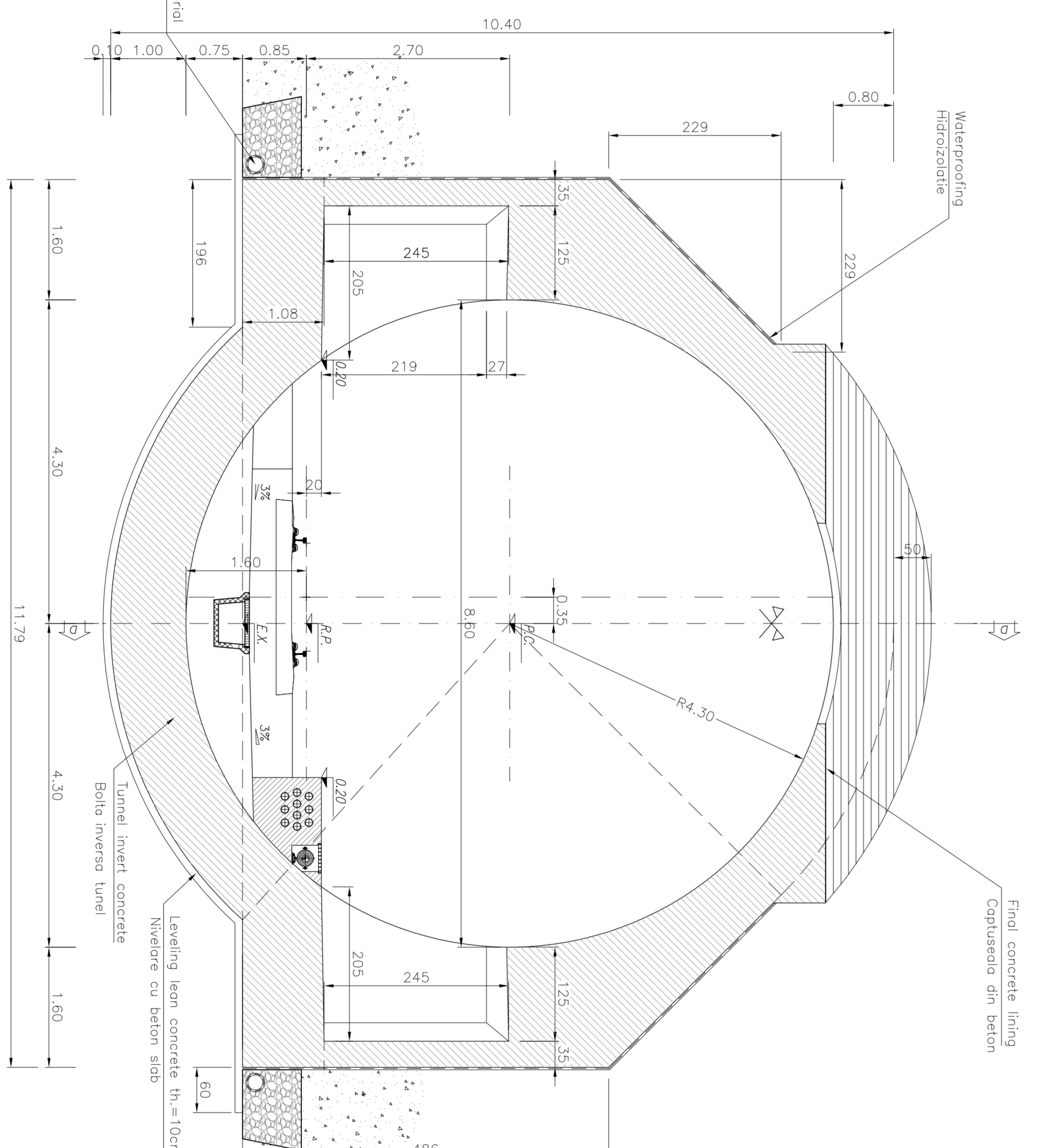
SECTION C-C
SECTIUNEA CURENTA C-C
Scale/Scara 1:50



SECTION E-E
SECTIUNEA CURENTA E-E
Scale/Scara 1:50



SECTION WITH SHELTER STAFF NICHES B-B
SECTIUNEA CU NISE PENTRU ADAPOSTUL PERSONALULUI B-B
Scale/Scara 1:50



NOTE:
The integrity of the concrete structures of the artificial and natural tunnels have to be maintained in case of fire (4.2.2.3 fire protection requirements for structure IS) (Technical Specification for Interoperability).

NOTE:
Integrate structure de beton a tunelului artificial si natural, trebuie sa ramana integra in caz de incendiu (4.2.2.3 cerinta de protectie la foc pentru structura SI) (Specificatii tehnice pentru interoperabilitate).

NOTE:
Handrail shall be installed approximately 1 m above walking protruding a shade to a safe zone (4.2.2.3 escape walkways IS).

NOTE:
Bari de mână trebuie să fie instalate aproximativ la 1 m deasupra cavității de protecție obținută în cazul unui incendiu (4.2.2.3 cerințe de protecție la incendiu) (4.2.2.3 cerințe de protecție la incendiu).

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 IS).

NOTE:
Semnale de evacuare trebuie să fie instalate pe pereții laterali la o distanță maximă între semnale de evacuare de 50m (4.2.2.9 Escape Signage IS).

MATERIAL TABLE

TUNNEL INVERT CONCRETE:	
Type C2	
100 > 30 MPa	
Exposure class: XF4	
Exposure class related to environmental conditions: XA2	
Class of chloride content: C 0.20	
φ max aggregate = 32 mm	
φ max aggregate = 32 mm	
TUNNEL CROWN CONCRETE:	
Type C1	
100 > 30 MPa	
Water/cement ratio: 0.23	
Exposure class: XF4	
Exposure class related to environmental conditions: XA2	
Class of chloride content: C 0.20	
φ max aggregate = 32 mm	
REFERENCE SHEET:	
– Precast, covered by establishment	
LEAN CONCRETE:	
Type I/1	
100 > 17 MPa	
Cement type CEM I/V	

LEGEND

RP = REFERENCE PLANE
EX = EXCAVATIONS PLANE
PC = CENTER PLANE

CLIENT / CLIENT

CFR
CN.C.F. "C.F.R." S.A.

GOVERNUL ROMÂNIEI
ROMANIAN GOVERNMENT

PROIECT FINANȚAT DE UNIUNEA EUROPEANĂ
EUROPEAN UNION FINANCED PROJECT

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SUBCONSULTANT / SUBCONSULTANT

PROIECT/PROJECT
2044/RO/16/974/002
FAZA / PHASE:
P.I.N., I.D.

ORNAMENTS TUNNEL

Configura / Configuration System
E | A | 5 | 1 | 0 | 1 | C | 1 | 0 | B | B | G | A | 0 | 2 | 0 | 0 | 0 | 0 | 7 | 0