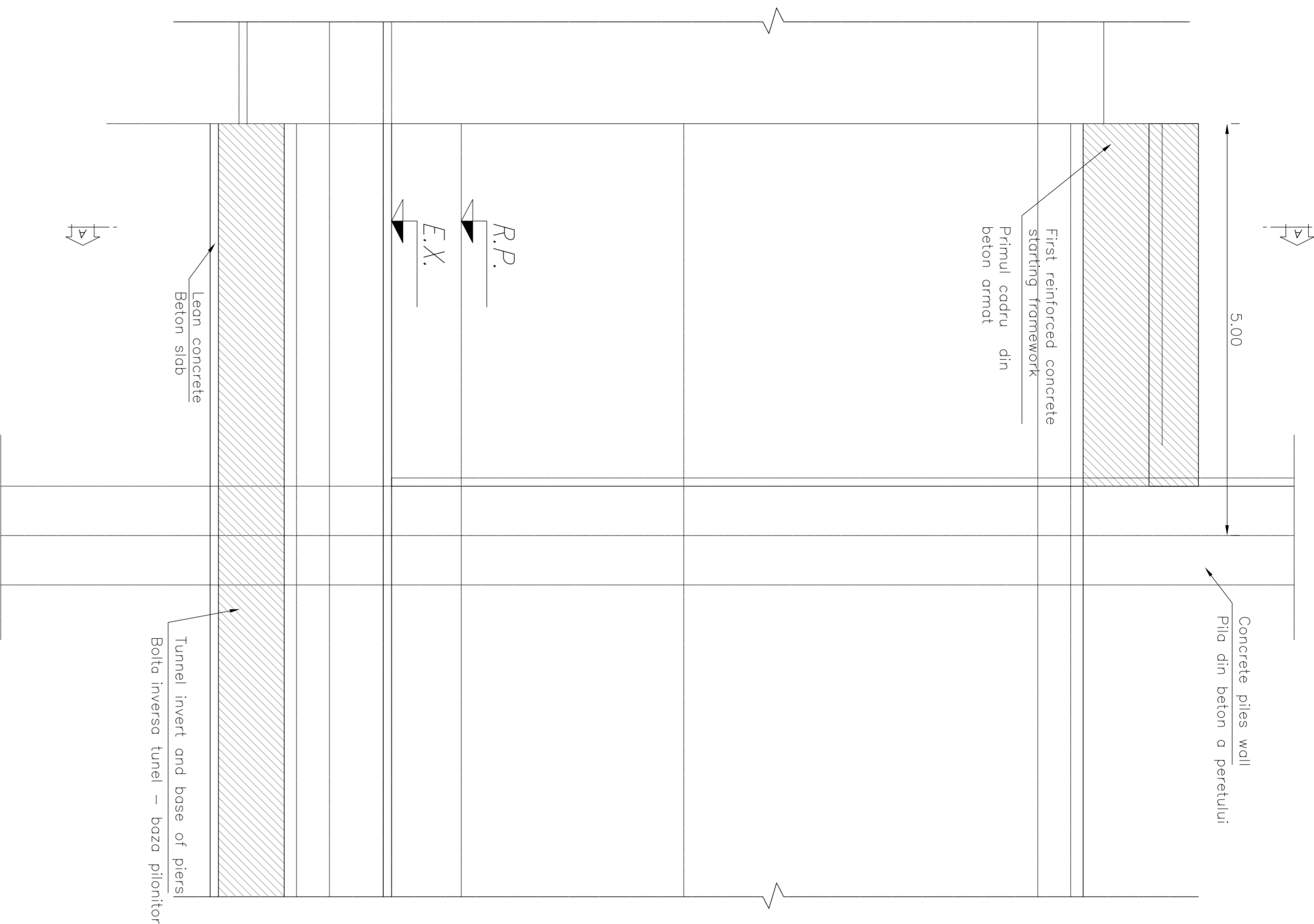


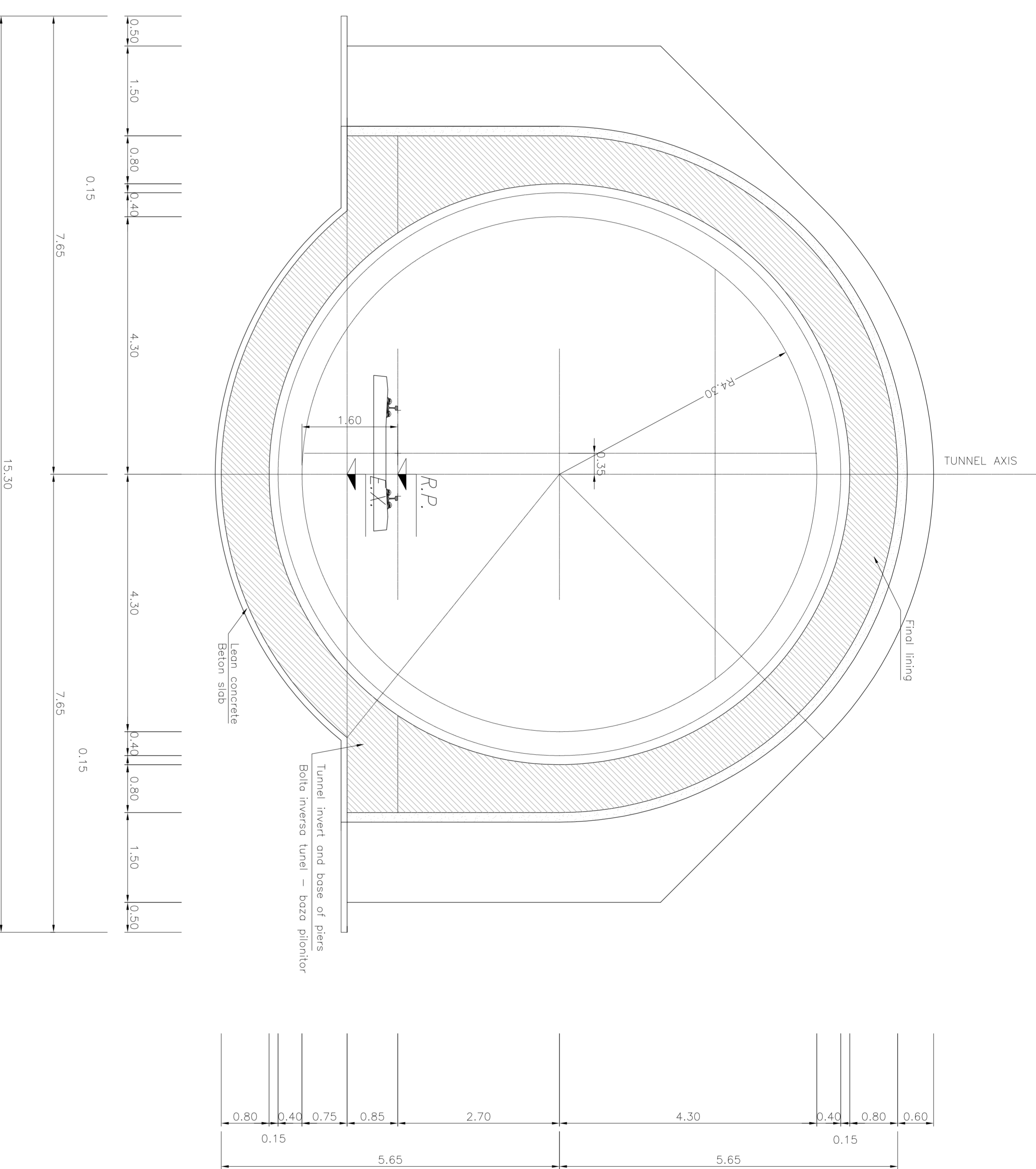
LONGITUDINAL SECTION  
SECTIUNEA LONGITUDINALA

Scale/Scale 1:50



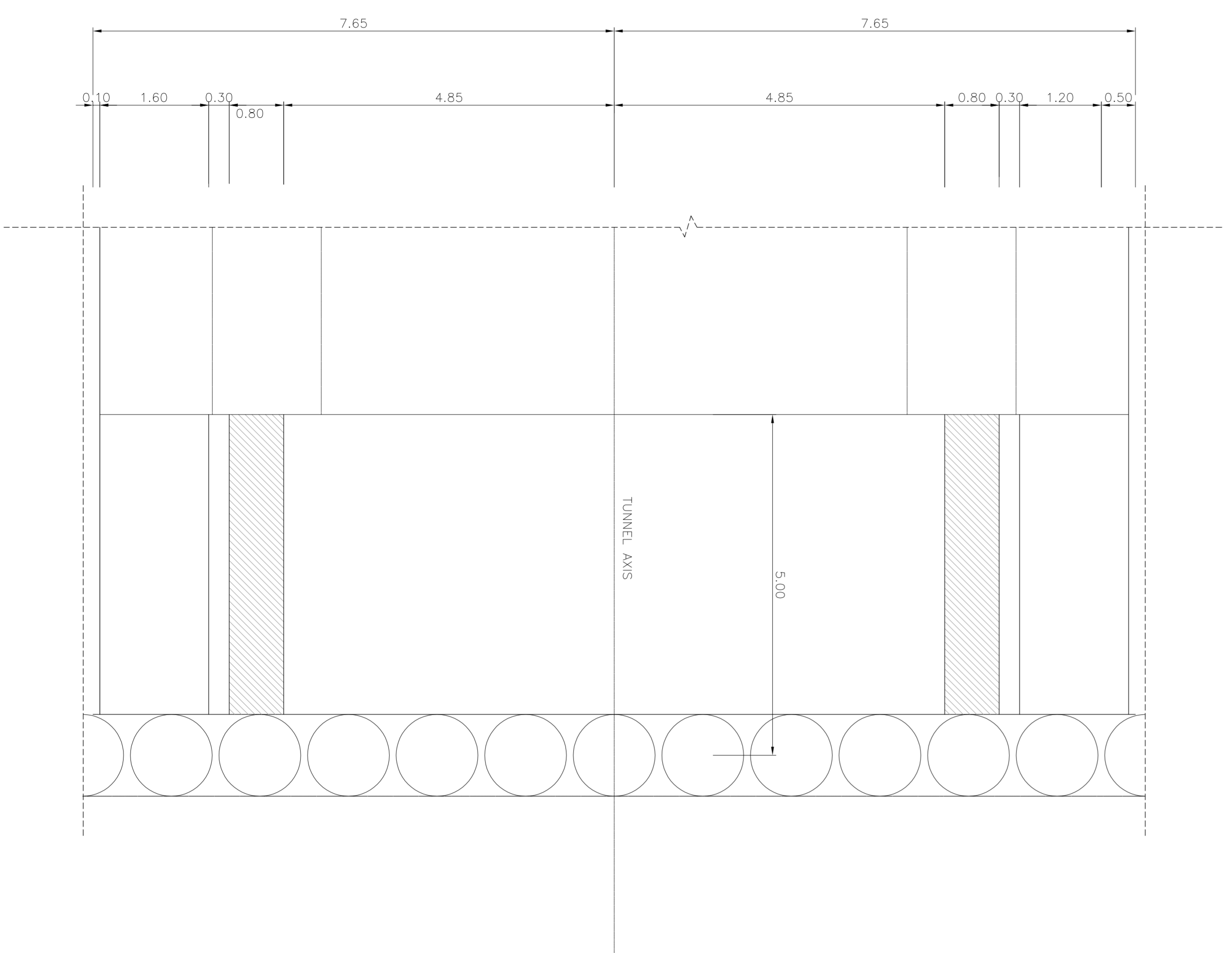
SECTION A-A  
SECTIUNEA CURENTA A-A

Scale/Scale 1:50



PLAN

Scale/Scale 1:50



MATERIAL TABLE	
<b>TUNNEL INVERT CONCRETE</b>	
-	Type C20 MPa
-	Water/cement ratio <math>< 0.50</math>
-	Minimum structural Class S3/S4
-	Exposure class related to environmental conditions: W2
-	Cement type CEM III/V
-	Class of concrete content C1 0.20
-	max aggregate = 32 mm
<b>TUNNEL CROWN CONCRETE</b>	
-	Type C1
-	ick 2-30 MPa
-	Water/cement ratio <math>< 0.50</math>
-	Minimum structural Class S4/S5
-	Exposure class related to environmental conditions: W2
-	Cement type CEM I
-	Class of concrete content C1 0.20
-	max aggregate = 32 mm
<b>REINFORCING STEEL</b>	
Reinforce provided by establishment	
- Reinforce	
<b>LEAN CONCRETE</b>	
-	Type C1
-	ick 2-30 MPa
-	Cement type CEM III/V

**NOTE:**  
- The integrity of the concrete structures of the artificial and natural tunnels have to maintained in case of fire (4.2.2.3 fire protection requirements for structure ISI technical Specification for interoperability).

**NOTE:**  
- Instructia structuri de beton a tunelului artificial si natural, trebuie sa ramana integrala in caz de incendiu (4.2.2.3 cerintele de protectie la foc pentru structuri SI Specificatii tehnice pentru interoperabilitate).

**NOTE:**  
- Handrail shall be installed approximately of 1 m above roadway providing a route to a safe area ( 4.2.2.7, Escape walkways IS1).

**NOTE:**  
- Bara de mana trebuie sa fie instalata aproximativ la 1 m deasupra caili de evacuare oferind un traseu intr-o zona sigura (4.2.2.7 cerintele tehnice SI).

**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 IS1).

**NOTE:**  
- Semnele de evacuare trebuie sa fie instalate pe peretii laterali la o distanta maxima intre semne de evacuare de 50m (4.2.2.9 Escapage Signage SI1).

LEGEND

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

Index	Code	Description	Project Manager	Approved Consultant	Approved Client
A	DATA	Modificarea proiectului	R. Lutz	C. Gimbelli	CFR
B					
C					
D					

**CLIENT / CLIENT**

**CFR**  
C.N.C.F. "C.F.R." S.A.

**CONSULTANT / CONSULTANT**

**OBBERMEYER**  
Consulting Engineers

**SUBCONSULTANT / SUBCONSULTANT**

**TECNIC**

**HOMOROD TUNNEL**

Reabilitarea liniei de cale ferata Buzov - Simleu, partea componenta a conditiilor IV Part European, linie Buzov - Simleu, componenta Part of the IV Part European Corridor for the links direction with maximum speed of 160 km/h. Station 1 Buzov - Simleu

Proiect/Project  
2024/03/07/25/030  
Faza 1 Proiect  
F.1.11.1.1.D1

Prima segment - cofraj de constructie  
Faza 1 Proiect

Confidence / Confidant System  
variati varians LOT Nr. /No