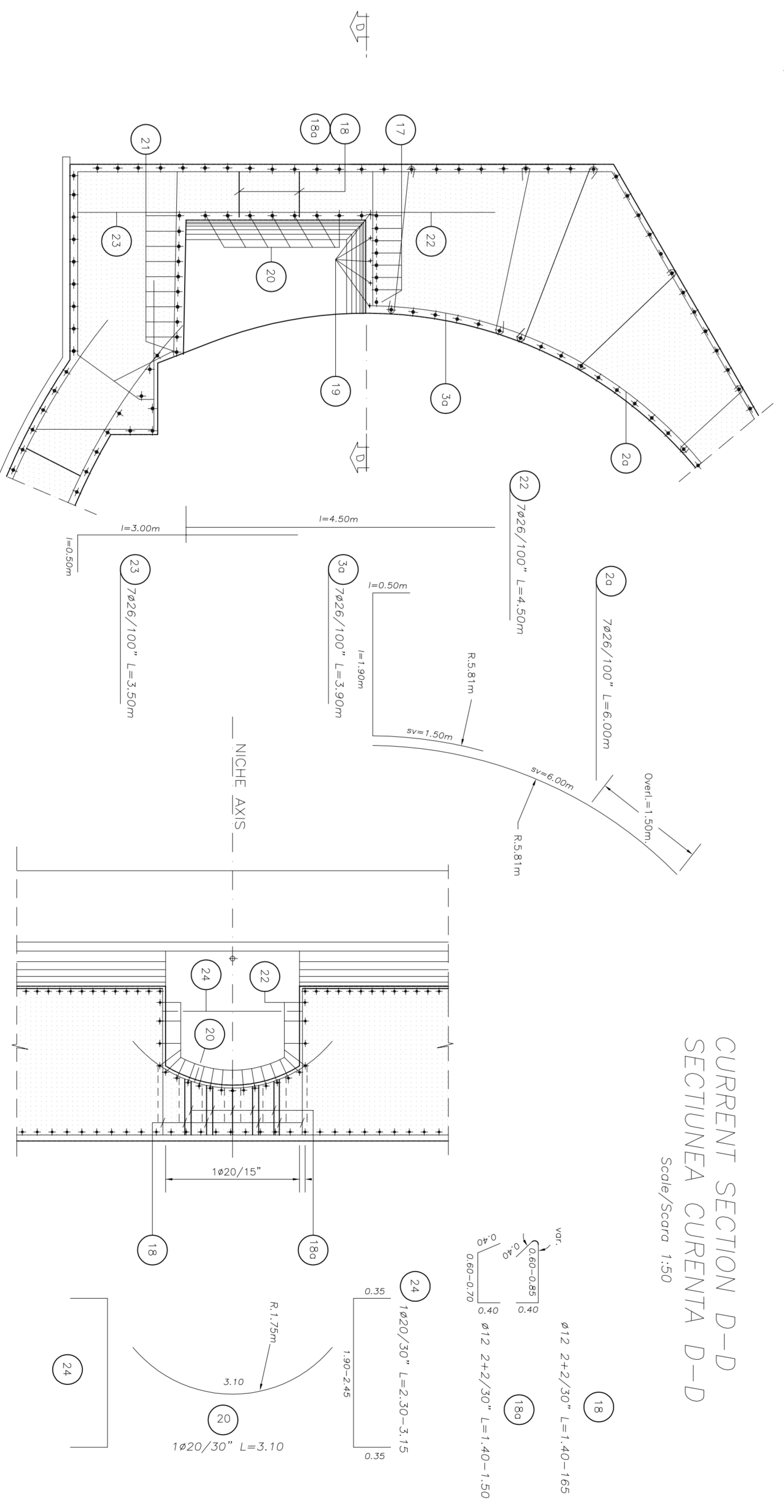
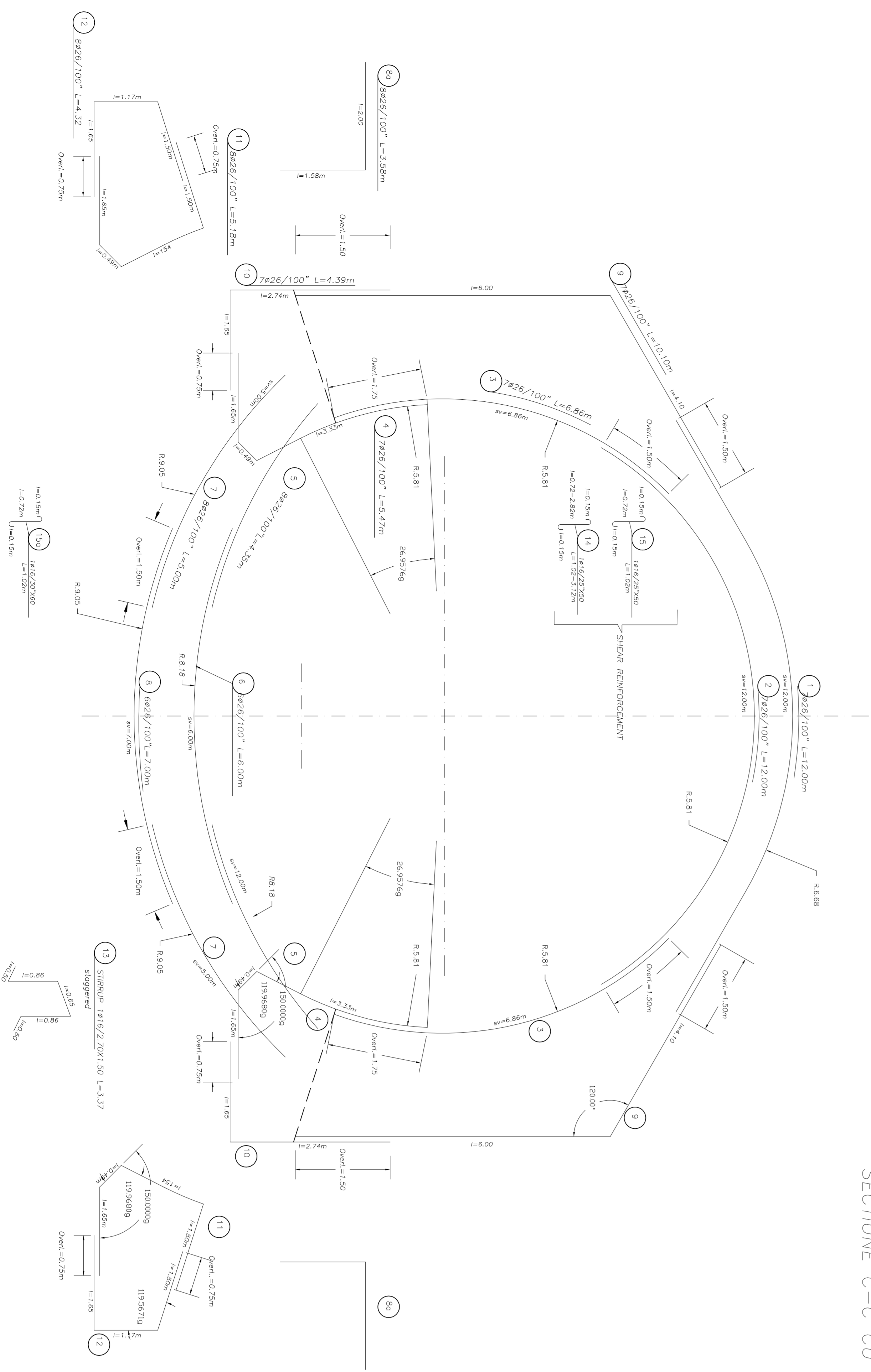


SECTION C-C WITH SHELTER STAFF NICHE SECTIONEA CURENTA CU NISE PENTRU ADAPOSTUL PERSONALULUI Scale/Scaia 1:50



STEELS TABLE

REFERENCE STEEL:

- BRCR (standard)

Legend measures:

Bending diameter R_b :

Bar < 400 -> $R_b = 6d$

Bar ≥ 400 -> $R_b = 6d$

Bar # 400 -> $R_b = 8d$

Bar # 400 -> $R_b = 8d$

MATERIAL TABLE

TUNNEL INVERT CONCRETE:

- Type C20
- $f_{ck} >= 20$ MPa
- $f_{ctk} >= 0.15$ MPa
- Modulus of Elasticity $E_c = 20000$ N/mm²
- Maximum strain at failure $\epsilon_{cu} = 0.01$
- Exposure class relating to environmental conditions XE2
- Class of concrete C 20
- ρ_{max} aggregate = 20 mm

TUNNEL LIMB CONCRETE:

- Type C15
- $f_{ck} >= 15$ MPa
- $f_{ctk} >= 0.15$ MPa
- Modulus of Elasticity $E_c = 15000$ N/mm²
- Maximum strain at failure $\epsilon_{cu} = 0.01$
- Exposure class relating to environmental conditions XE2
- Class of concrete C 15
- ρ_{max} aggregate = 20 mm

REFERENCE STEEL:

- BRCR, controlled by establishment

LETEL CONCRETE:

- Type C15
- $f_{ck} >= 15$ MPa
- Cement type CEM I/V

LEGEND

RP = REFERENCE PLANE

EX = EXCAVATIONS PLANE

PC = CENTER PLANE

Index	Data	Madness	Proposed	Approved	Accepted
A	Date	Madness/Modification	Proposed	Approved	Accepted
B	Date	Madness/Modification	Proposed	Approved	Accepted
C	Date	Madness/Modification	Proposed	Approved	Accepted

CLIENT / CLIENT

GOVERNUL ROMANIEI
ROMANIAN GOVERNMENT

PROIECT FINANAT DE UNIUNEA EUROPEANA
EUROPEAN UNION FINANCED PROJECT

CLIENT / CLIENT

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

CONSULTANT / CONSULTANT

SECTIA 10
OBERMEYER
JOHN - ROBERT SMITH

TECNIC
Civiling Engineers

CONSULTANT / SUBCONSULTANT

Approved	R. LUTZA	Date	Signature
Approved	C. GHIMBULI	Date	Signature
Approved	C. GHIMBULI	Date	Signature
Approved	C. GHIMBULI	Date	Signature
Approved	C. GHIMBULI	Date	Signature

SUBCONSULTANT / SUBCONSULTANT

Approved

Approved

Approved

Approved

Approved

Approved

Approved

Approved

Demnitate desen / Drawing Title :

ARHITA 1 TUNNEL

ARMATURA ANCHURA SIE

ARMATURA ANCHURA SIE

TUNEL ARTIFICIAL TERESTRU

CONDITII / Conditions System

Scara / Scale

vari / variants

COT

Nr./No

EA	A5	1	0	1	C	1	4	B	B	GA	0	7	0	0	0	7	0
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Proiect/Project
2004/RO/16/974/002
Faza / Phase:
P.N. / I.D.