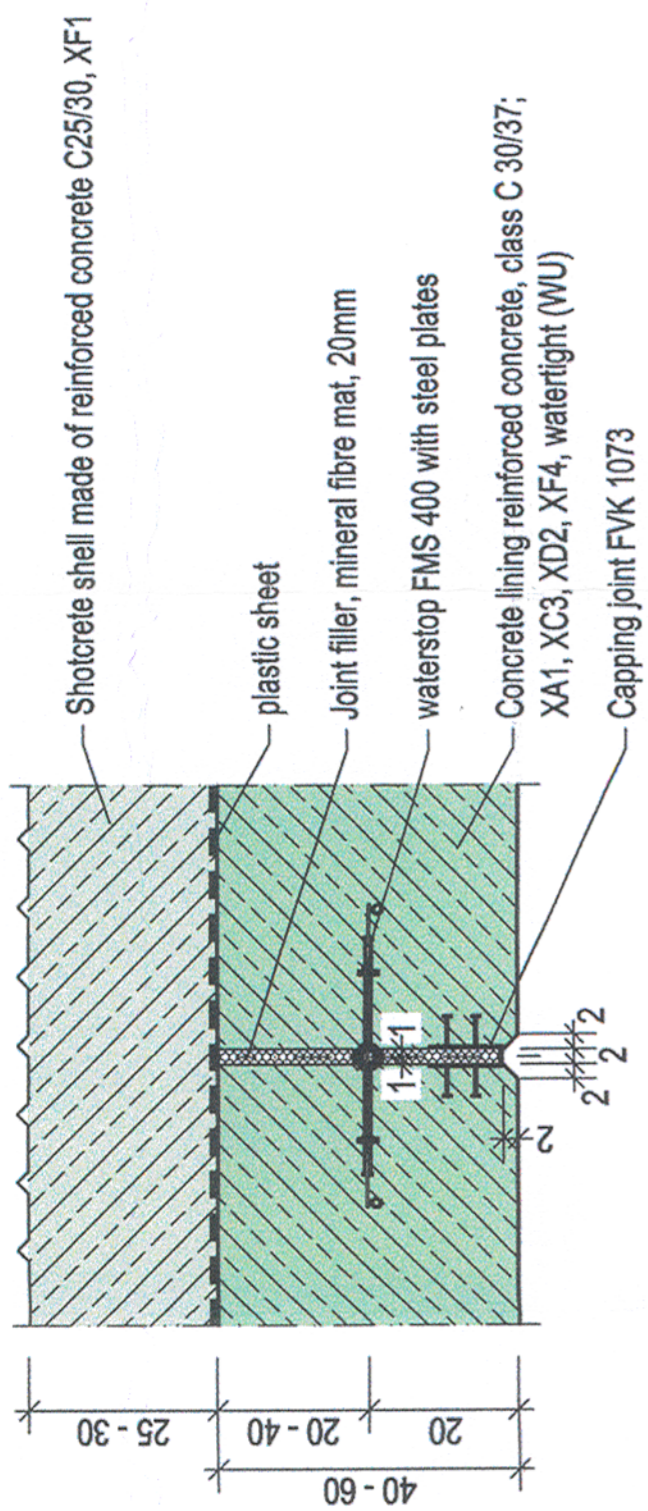
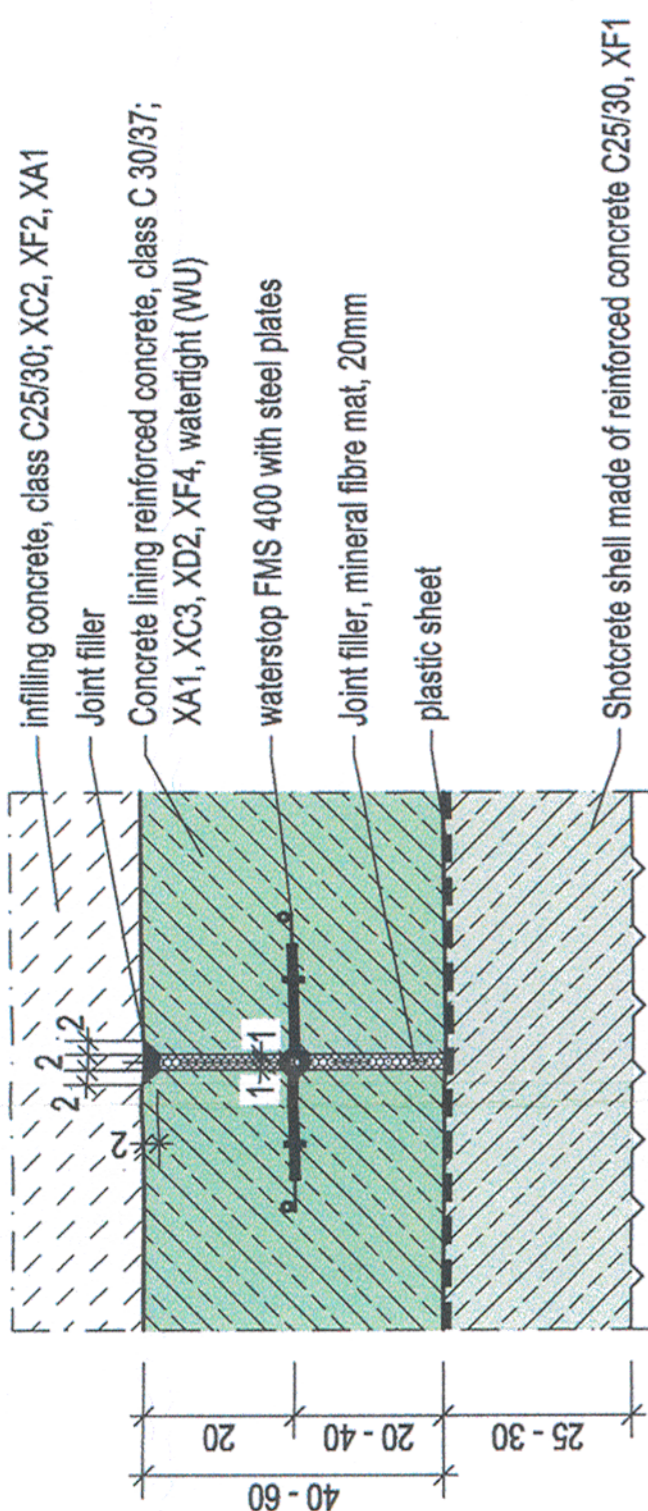


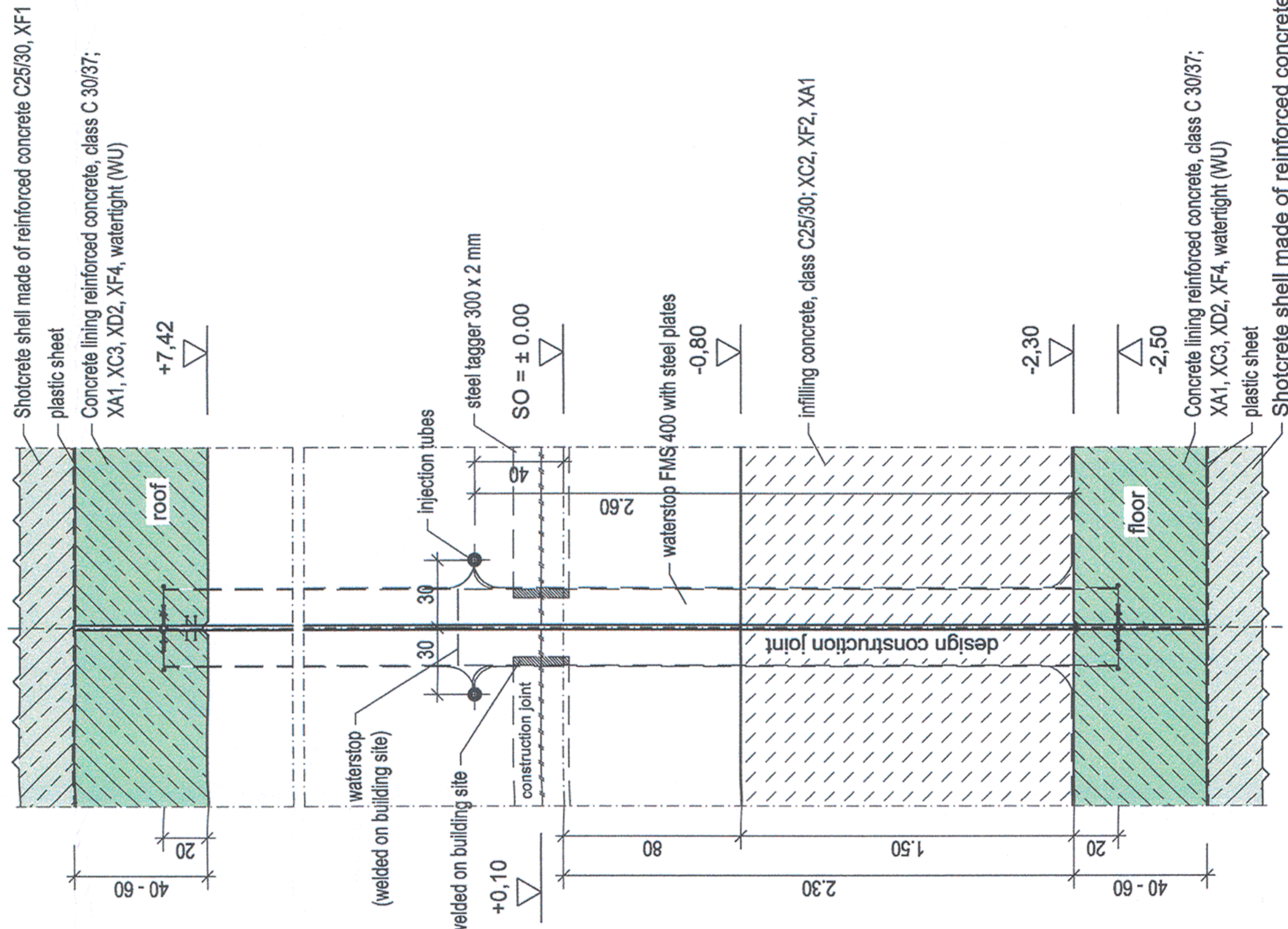
**Detail "A"**  
Design Construction joint roof,  
mining method  
M=1:10



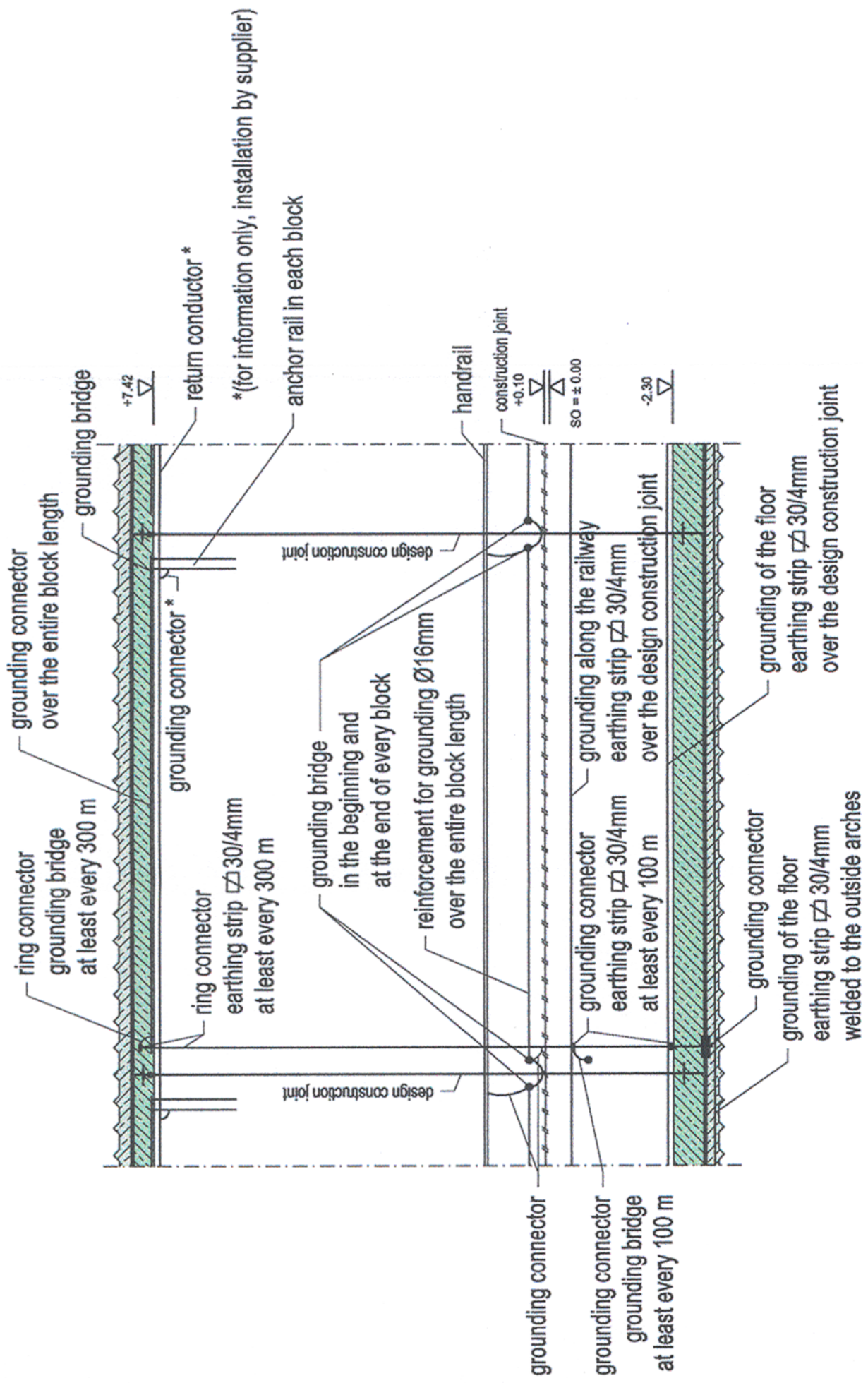
**Detail "B"**  
Design Construction joint floor,  
mining method  
M=1:10



**Detail "C"**  
attachment for injection and vent tubes of waterstop  
mining method  
M=1:20



**View**  
electrical grounding  
M=1:100



|  |  |   |   |  |
|--|--|---|---|--|
| <br>European Investment Bank   | <br>MINISTERUL TRANSPORTURILOR<br>BENEFICIAR / BENEFICIARY:  | <br>PÖYRY<br>COMPANIA NAȚIONALĂ DE CĂI FERATE "CFR" SA  | Referat / Expertiza<br>Report / Expertise |  |
|  |  |   | Cerința<br>Requirement                    |  |
| Aprobat / Approved<br>Verificat / Checked<br>Aprobat / Approved<br>Verificat / Checked<br>Aprobat / Approved<br>Verificat / Checked<br>Aprobat / Approved<br>Verificat / Checked | Sef de echipa / Team leader<br>Expert Cheie / Key Expert<br>Adjunct Sef de echipa / Deputy Team leader<br>Inginer / Engineer | C. Teodorescu<br>M. Diegmann<br>J. Werfling<br>T. Urban | 06/2013<br>06/2013<br>06/2013<br>06/2013  | Semnatura<br>Signature<br>06/2013<br>06/2013<br>06/2013<br>06/2013 |
| Denumire desen / Drawing name:<br>TUNNEL, DETAILS - ELECTRICAL GROUNDING   |  |   | Nr / No<br>TUD 1                          |  |
| Scara / Scale<br>1:20 / 1:10   |  |   | Cod desen / Drawing Code<br>TUD 1         |  |

"Reabilitarea liniei c.f. Frontiera - Curtici - Simeria, parte componentă a coridorului IV Pan - European pentru calea ferată cu viteză maximă de 160 km/h"  
 "Rehabilitation of the Railway Line Border - Curtici - Simeria, component Part of the IV Pan - European Corridor for the Trains Circulation with maximum speed of 160 km/h"  
 Section 2 : km 814-Gurasada

Proiect 9j  
 35311.1