



SYMBOLS LEGEND/LEGENDA SIMBOLURI

NI	ELECTRICAL PANEL, HW/ ELECTRIC PANEL = - Q.M (MAIN TRANSFORMER) - Q.MT (TRANSFORMER) - CAB (CABINET) - CAB (CABINET) - O.P (PROTECTOR) - O.P (ANTICONDUC) - O.SI (FURT. ANTICONDUC) - F.BG: (GENERAL CIRCUIT DI PAU)
—	PROTECTION CONDUCTOR MAIN EQUIPMENT/ LUM/PROTECTORA CONDUCTORULI
—	GROUND CONNECTION/ SOIL CONDUCTOR
—	BORDED SIMN A OSM IN COPPER BARE ROPE S=35MMQ/CHIMICIA MERSOPAT
—	NIH=0.05 M ROPE BARE S=35MMQ
—	GROUND COLLECTOR/SOIL COLLECTOR
—	PE/2 SOCKETS 230 V FOR FINE BRIDGE/PE/2 PROIE 230 V PERIUD POWPER
—	PROTECTOR ON TRIPPOD WITH CABLE REEL COIL (200 W) FOR EMERGENCY
—	LUMINARE (1000 W)/PROTECTOR PE TRENDDU CU ROLA BORNKA (200 W) PERIUD
—	LUMINARE DE URGENȚIA
—	ELECTRIC DOOR LOCK BRPSS/ROBOTECA ELECTRIC USA BRPSS
—	EQUIPMENT MANAGER SIGNALS RUDO GSM E/0R GSM-R
—	EQUIPMENT DE MANAGEMENT SIGNALS RUDO GSM E/0R GSM-R
—	BR-PASS FAN/VENTILATOR BRPSS
—	FIREPROOF DAMPER BRPSS/AUZATOR DE INCENDIULOR BRPSS

INDICATORS LEGEND OF GROUND CONNECTIONS

11	GROUND CONNECTION OF NEUTRAL WITH CABLE NI09-K YELLOW-GREEN S-35
12	MWO/MEZBLAZERKA NEUTRU A SOL CU CABLU NI09-K YELLOW-GREEN S-35
21	GROUND CONNECTION OF THE TRANSFORMER CHASSIS WITH CABLE NI09-K-YELLOW GREEN S-35 MWO/MEZBLAZERKA IN CORDO CARCASA U CABLU NI09-K-YELLOW GREEN S-35
22	GROUND CONNECTION OF THE BOX OR TRANSFORMER PROTECTION GRID WITH CABLE NI09-K-YELLOW-GREEN S-35 MWO/MEZBLAZERKA LA SOL A CABLA CURETA
31	GROUND CONNECTION OF THE PROTECTIVE PENNY ON TRANSFORMER U CABLU NI09-K-YELLOW-GREEN S-35 MWO/MEZBLAZERKA LA SOL A CABLA ECHIVAL U CABLU NI09-K-YELLOW-GREEN S-35
41	GROUND CONNECTION OF SCREEN CABLE WITH CABLE NI09-K-YELLOW-GREEN S-35 MWO/MEZBLAZERKA LA SOL A CABLU ECHIVAL U CABLU NI09-K-YELLOW-GREEN S-35
51	PROTECTIVE CONDUCTOR (PE) FOR USERS POWERED BY LV PANEL/PANANT DE PROIECTIE PERIUD UTILIZAREA ALIMENTAT DE-CABLU PE
61	GROUND CONNECTION OF PAU-COLLECTOR PANEL LV/MEZBLAZERKA LA SOL A BR-COLECTOR DE PANAUT LV
71	GROUND SIM/FAN/DAMP BRPSS
81	GROUND CONNECTION OF PANEL CHASSIS WITH CABLE NI09-K-YELLOW-GREEN S-35 MWO/MEZBLAZERKA IN CORDO CARCASA U CABLU NI09-K-YELLOW-GREEN S-35
91	GROUND CONNECTION OF THE OPERATOR PROTECTIONS WITH CABLE NI09-K-YELLOW-GREEN S-35 MWO/MEZBLAZERKA LA SOL A REZERVATOR DE SUPRINDERSINE CU CABLU NI09-K-YELLOW-GREEN S-35
101	GROUND CONDUCTOR TO MAIN COLLECTOR WITH CABLE NI09-K-YELLOW-GREEN S-35 MWO/MEZBLAZERKA LA SOL LA COLECTORUL PRINCIPAL CU CABLU NI09-K-YELLOW-GREEN S-35
111	PROTECTION CONDUCTOR TO LV PANELS OF TUNNEL/TUNEL/PROIECTIE AL PROIECTIA TABLOARU AT DE UTILIZATI LEA IN CALDERE
121	GROUND CONNECTION OF ELECTRONIC DEVICES WITH CABLE NI09-K-YELLOW-GREEN S-35 MWO/MEZBLAZERKA DISPOZITIVELE ELECTRONICE CU CABLU NI09-K-YELLOW-GREEN S-35

NOTE:

(*) COLLECTOR PLACED WITHIN THE PANEL/COLLECTOR ROZITA IN CABRUL

(1) EARTH CONNECTIONS TO THE OTHER EQUIPMENT INTERNAL TO THE PANEL/ LEZTORA ALE PANAUT

PERIUD ALE ECHIPAMENTU DIN INTERIORUL CABRUL

(2) EARTH CONNECTIONS TO THE TECHNICAL ROOM EQUIPMENT/LEZTORA PE PANAUT PERIUD EQUIPAMENTU CAMERI TEHNICU

(3) EARTH CONNECTION/ROZIE LEZTORA PE PANAUT

(4) EARTH COLLECTOR OR EQUIPMENTAL RING OF THE CABIN/COLLECTOR DE TEREN SUI RING SUBSTRANUL DE MANA

<p>CLIENT / CLIENT</p> <p>CFR C.N.C.F. - C.F.R. - S.A.</p>		<p>PROIECTANTII DE INGINERIA EUROPEANA EUROPEAN ENGINEERING CONSULTANTS</p> <p>CFR</p>																
<p>CONSULTANT / CONSULTANT</p> <p>Sasol Wilson OBERMAYER TECHNIC</p>		<p>PROIECT/PROIECT 2023/07/25/2023 P.171 / T.3</p>																
<p>Subcontractors / Subcontractors:</p> <table border="1"> <tr> <th>Name</th> <th>Date</th> <th>Signature</th> </tr> <tr> <td>Project manager</td> <td>R. Luzzo</td> <td>[Signature]</td> </tr> <tr> <td>Approved</td> <td>C. Gambelli</td> <td>[Signature]</td> </tr> <tr> <td>Technical expert</td> <td>C. Gambelli</td> <td>[Signature]</td> </tr> <tr> <td>Producer</td> <td>P. Amadio</td> <td>[Signature]</td> </tr> </table>				Name	Date	Signature	Project manager	R. Luzzo	[Signature]	Approved	C. Gambelli	[Signature]	Technical expert	C. Gambelli	[Signature]	Producer	P. Amadio	[Signature]
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Descrierea desenului / Drawing Title: TUNELUL UNELUI ORMEIS

Safety Tunnel Power supply system. Sistem de alimentare cu siguranță a tunelului

Scale / Scară: 1:107

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