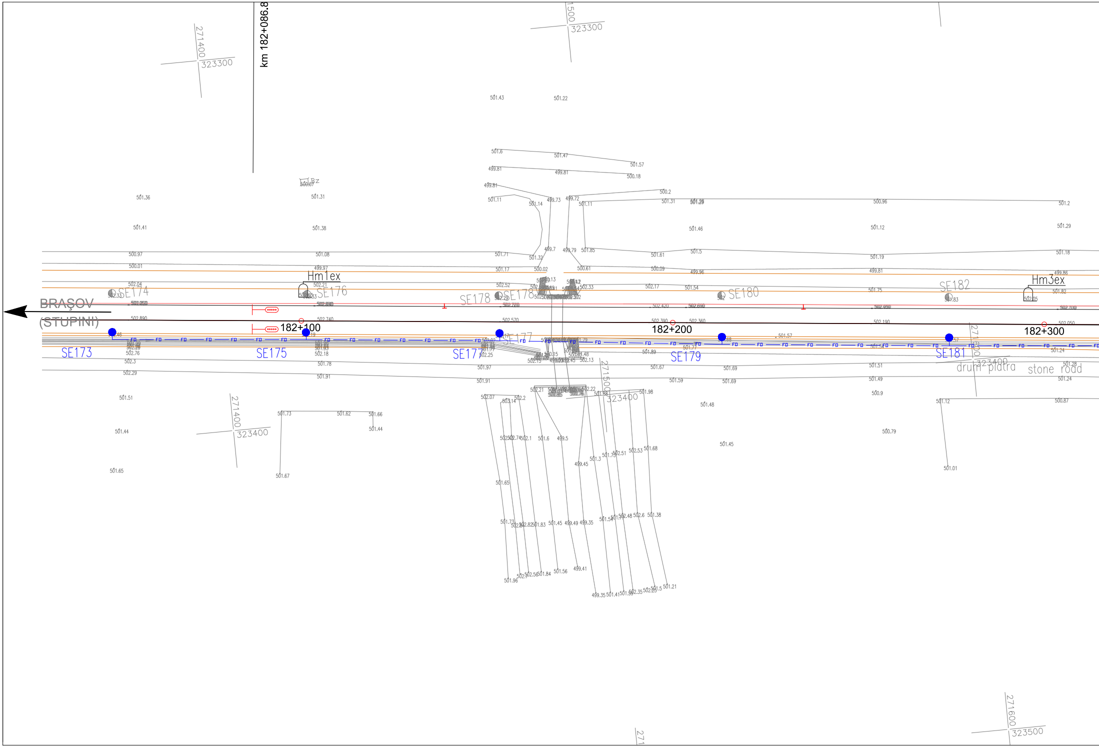
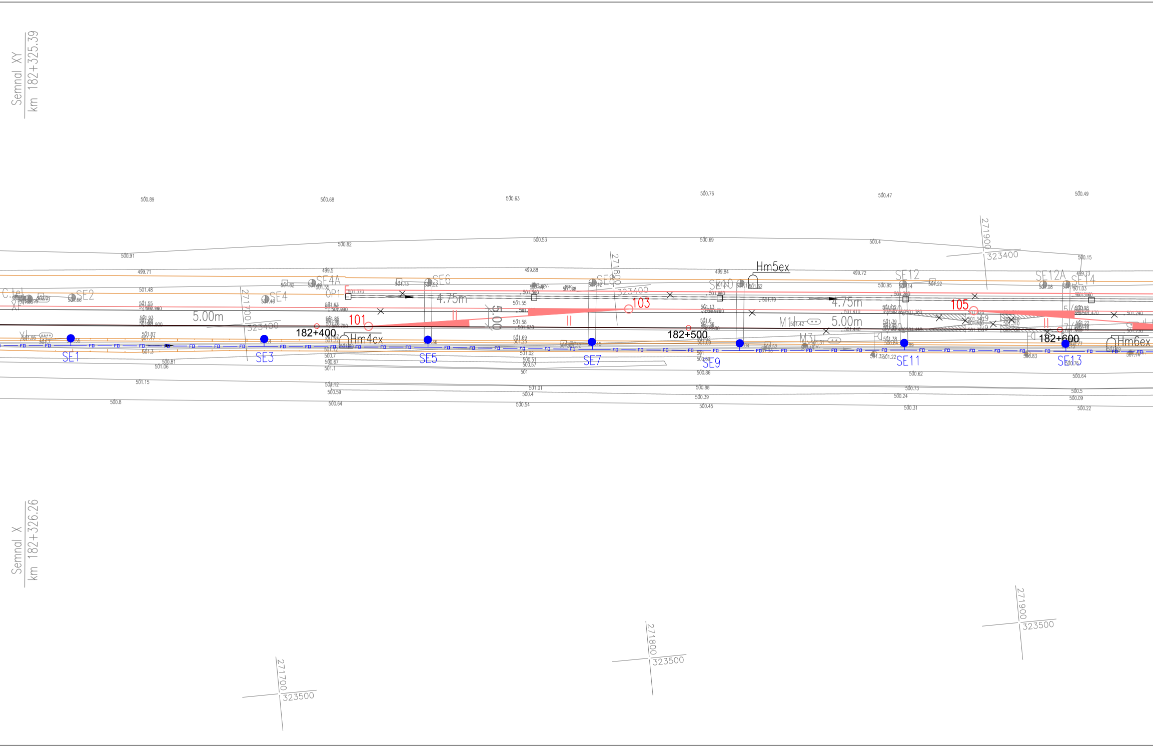
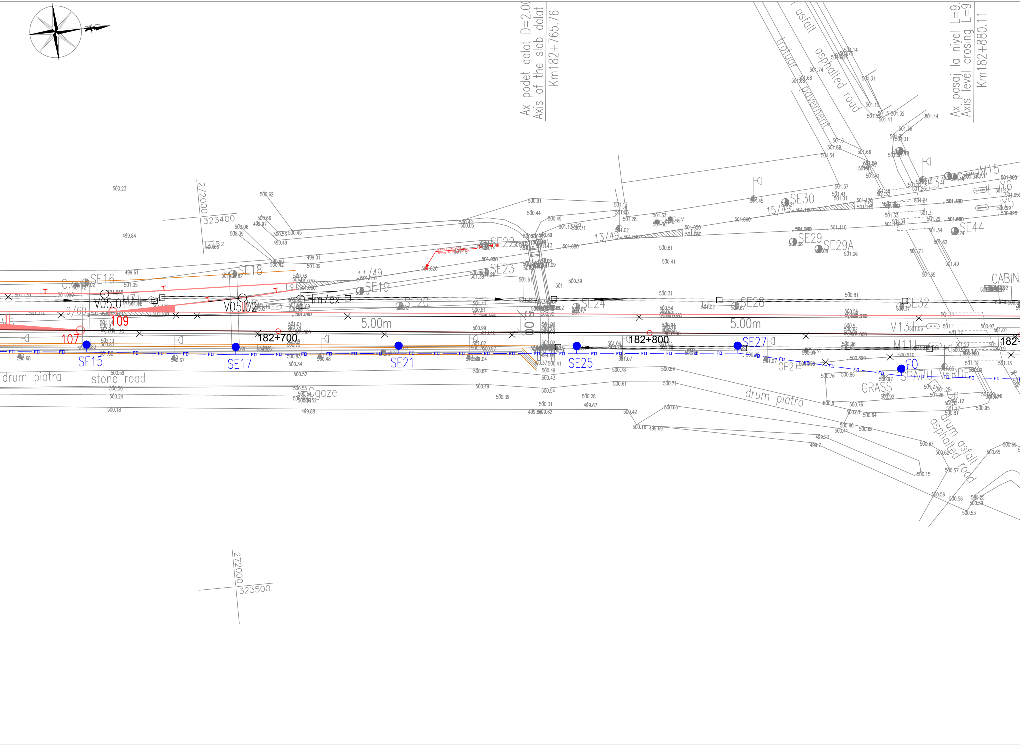
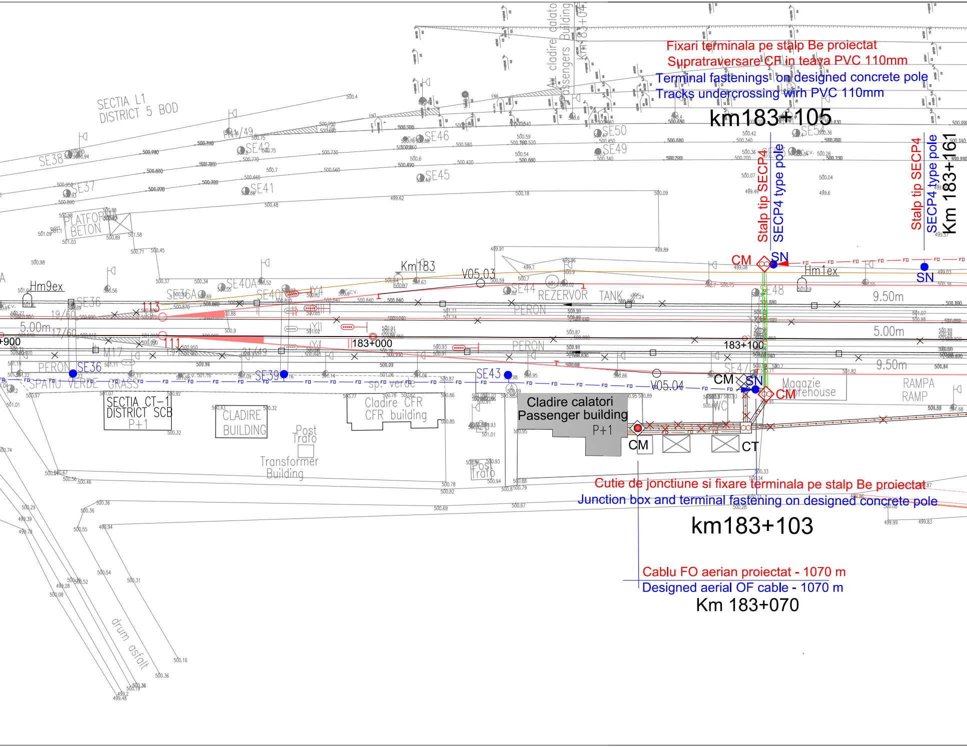
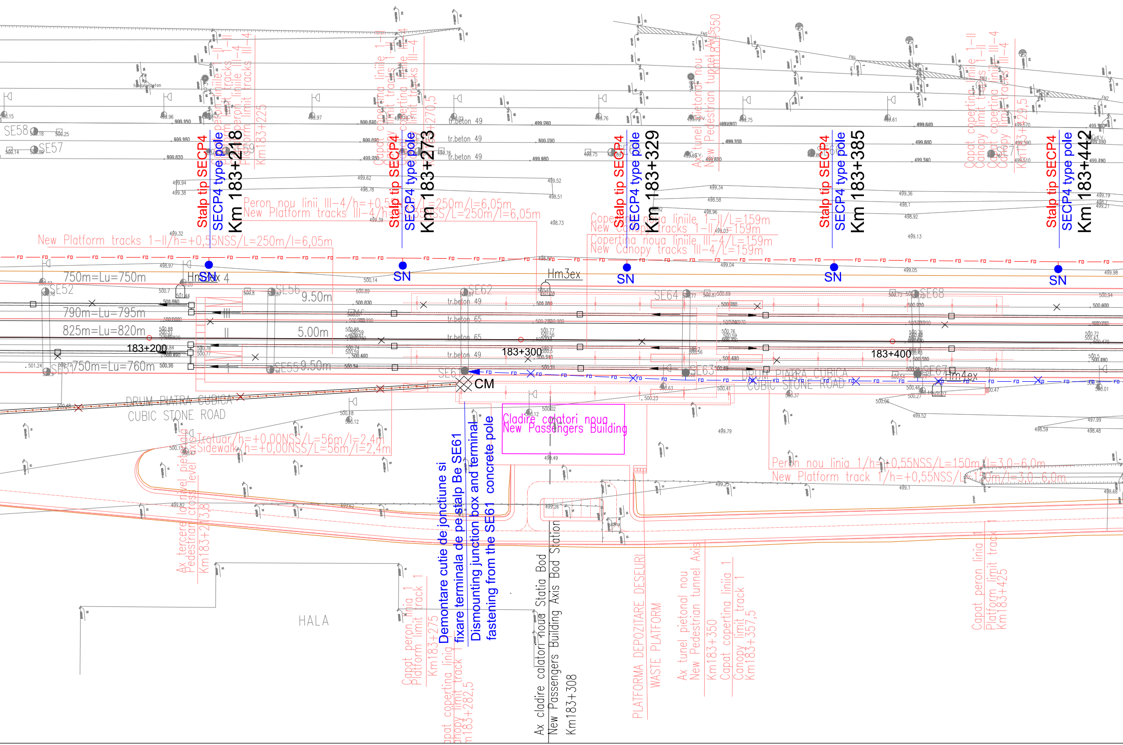
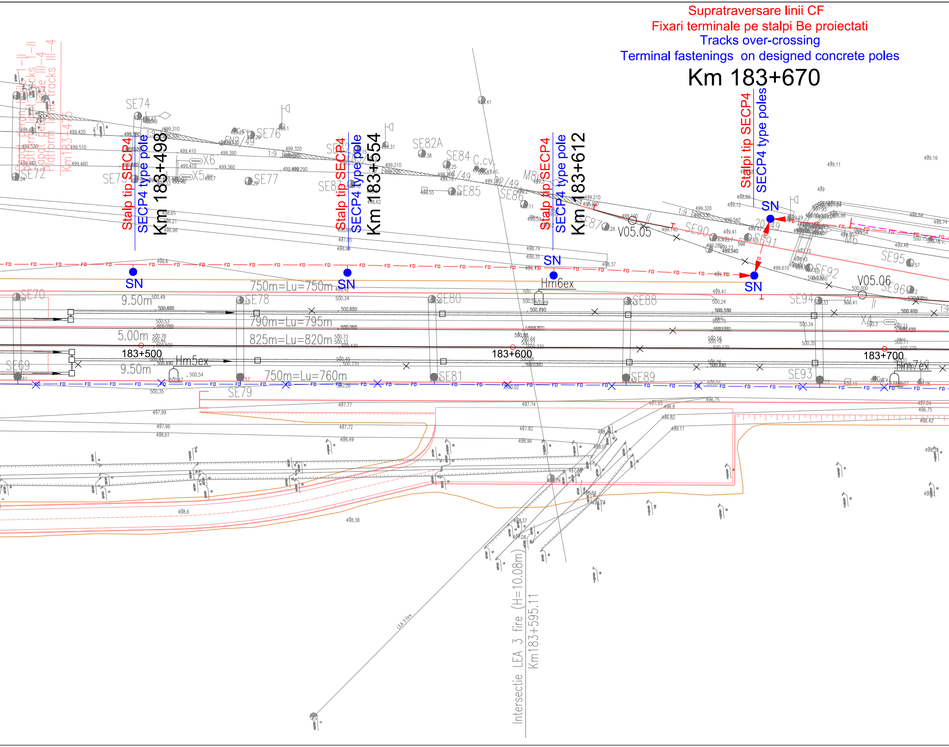

km 182+086.8
BRAŞOV
(STUPINI)
182+100
182+200
182+300
SE173
SE174
SE175
SE176
SE177
SE178
SE179
SE180
SE181
SE182
Hm1ex
Hm3ex
drum piatra
stone road
271400
323300
271500
323400
271600
323500
501.43
501.22
501.6
501.47
501.57
499.81
500.18
501.36
501.31
501.41
501.38
501.46
501.12
501.29
500.96
501.2
500.97
501.08
501.71
501.19
501.18
500.01
499.97
501.17
500.02
500.61
500.09
499.96
499.81
502.04
502.21
502.52
502.17
501.54
501.75
501.82
502.890
502.740
502.570
502.390
502.360
502.190
502.050
502.76
502.3
502.29
502.18
501.78
501.91
501.97
501.67
501.69
501.59
501.51
501.49
500.9
501.24
501.28
501.51
501.44
501.65
501.73
501.62
501.66
501.44
501.67
501.48
501.45
500.79
501.12
500.87
501.01
499.45
499.41
501.21
501.38
501.96
499.35

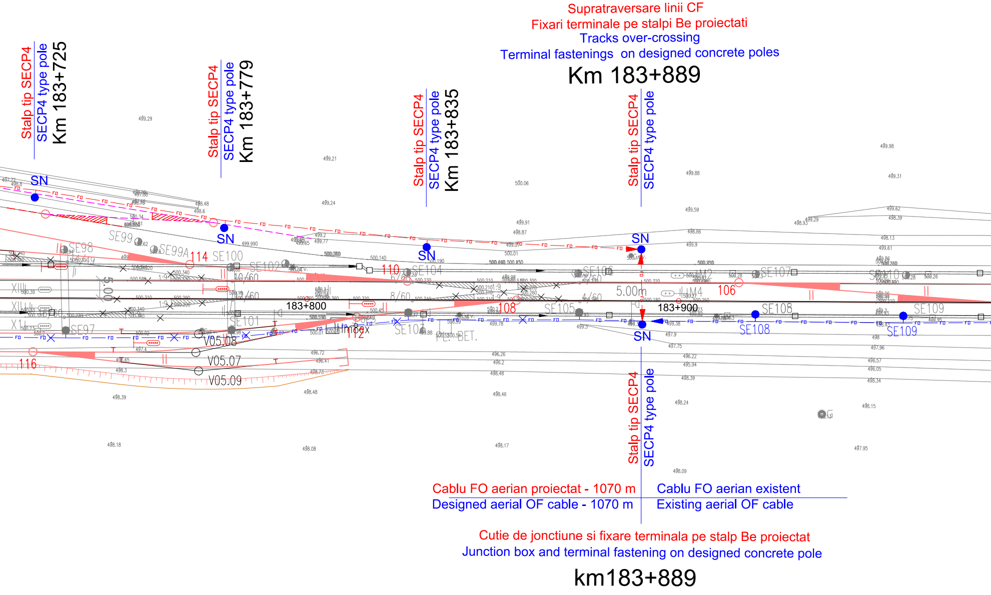

Semnal XY
km 182+325.39
Semnal X
km 182+326.26
SE1
SE2
SE3
SE4
SE4A
SE5
SE6
SE7
SE8
SE9
SE10
SE11
SE12
SE12A
SE13
SE14
OP1
M1
M3
182+400
182+500
182+600
Hm4ex
Hm5ex
Hm6ex
101
103
105
5.00m
4.75m
4.75m
5.00m
5.00
271700
323400
271800
323400
271900
323400
271700
323500
271800
323500
271900
323500
FO
500.89
500.68
500.63
500.76
500.47
500.49
500.91
500.82
500.53
500.69
500.4
500.15
499.71
499.5
499.88
499.84
499.72
501.48
501.55
501.58
501.69
501.87
501.3
500.81
501.06
501.15
500.8
500.7
500.67
501.1
501.12
500.59
500.64
501.02
500.51
500.57
501
501.01
500.4
500.54
500.86
500.88
500.39
500.45
500.62
500.73
500.24
500.31
500.64
500.5
500.09
500.22
500.83


Ax podet dalat D=2.0
Axis of the slab dalat
Km182+765.76
Ax pasaj la nivel L=9.
Axis level crosing L=9
Km182+880.11
asfalt
asphalted road
trotuar
pavement
272000
323400
272000
323500
SE15
SE16
SE17
SE18
SE19
SE20
SE21
SE22
SE23
SE24
SE25
SE27
SE28
SE29
SE29A
SE30
SE32
SE34
SE44
V05.01
V05.02
107
109
9/60
11/49
13/49
15/49
1:9
Hm7ex
182+700
182+800
182+
5.00m
5.00m
5.00
drum piatra
stone road
drum piatra
C.gaze
OP2
FO
SPATIU VERDE
GRASS
M11
M13
M15
CABIN
drum asfalt
asphalted road
500.23
499.84
500.62
500.91
500.44
500.39
500.49
500.18
500.53


Fixari terminala pe stalp Be proiectat
Supratraversare CF in teava PVC 110mm
Terminal fastenings on designed concrete pole
Tracks undercrossing wirh PVC 110mm
km183+105
Stalp tip SECP4
SECP4 type pole
Stalp tip SECP4
SECP4 type pole
Km 183+161
SECTIA L1
DISTRICT 5 BOD
SE38
SE37
SE41
SE42
SE45
SE46
SE49
SE50
SE54
PLATFORMA
BETON
Km183
V05.03
CM
SN
SN
Hm1ex
Hm9ex
SE36A
SE40A
SE40
SE44
REZERVOR
TANK
PERON
113
111
19/60
17/60
5.00m
9.50m
5.00m
9.50m
+900
183+000
183+100
PERON
M17
SE36
SE39
SE43
SE47
PERON
SPATIU VERDE
GRASS
Sp. verde
V05.04
CM
SN
CM
Magazie
Warehouse
RAMPA
RAMP
SECTIA CT-1
DISTRICT SCB
P+1
CLADIRE
BUILDING
Cladire CFR
CFR building
Post
Trafo
Transformer
Building
Post
Trafo
WC
Cladire calatori
Passenger building
P+1
CM
CT
Cutie de jonctiune si fixare terminala pe stalp Be proiectat
Junction box and terminal fastening on designed concrete pole
km183+103
Cablu FO aerian proiectat - 1070 m
Designed aerial OF cable - 1070 m
Km 183+070
drum asfalt


Stalp tip SECP4
SECP4 type pole
Km 183+218
Stalp tip SECP4
SECP4 type pole
Km 183+273
Stalp tip SECP4
SECP4 type pole
Km 183+329
Stalp tip SECP4
SECP4 type pole
Km 183+385
Stalp tip SECP4
SECP4 type pole
Km 183+442
SN
SN
SN
SN
SN
Capat peron liniile 1-II
Platform limit tracks 1-II
Capat peron liniile III-4
Platform limit tracks III-4
Km183+225
Capat copertina liniile 1-II
Canopy limit tracks 1-II
Capat copertina liniile III-4
Canopy limit tracks III-4
Km183+270,5
Ax tunel pietonal nou
New Pedestrian tunnel Axis
Km183+350
Capat copertina liniile 1-II
Canopy limit tracks 1-II
Capat copertina liniile III-4
Canopy limit tracks III-4
Km183+429,5
Peron nou linii III-4/h=+0,55NSS/L=250m/l=6,05m
New Platform tracks III-4/h=+0,55NSS/L=250m/l=6,05m
New Platform tracks 1-II/h=+0,55NSS/L=250m/l=6,05m
Copertina noua liniile 1-II/L=159m
New Canopy tracks 1-II/L=159m
Copertina noua liniile III-4/L=159m
New Canopy tracks III-4/L=159m
SE58
SE57
SE52
SE53
SE55
SE56
SE61
SE62
SE63
SE64
SE67
SE68
tr.beton 49
tr.beton 65
750m=Lu=750m
790m=Lu=795m
825m=Lu=820m
750m=Lu=760m
9.50m
5.00m
9.50m
183+200
183+300
183+400
Hm3ex
Hm4ex
CM
FO
DRUM PIATRA CUBICA
CUBIC STONE ROAD
Cladire calatori noua
New Passengers Building
Trotuar/h=+0,00NSS/L=56m/l=2,4m
Sidewalk/h=+0,00NSS/L=56m/l=2,4m
Ax trecere la nivel pietonala
Pedestrian level cross axis
Km183+213,8
Demontare cutie de jonctiune si fixare terminala de pe stalp Be SE61
Dismounting junction box and terminal fastening from the SE61 concrete pole
Capat peron linia 1
Platform limit track 1
Km183+275
Capat copertina linia 1
Canopy limit track 1
Km183+282,5
Ax cladire calatori noua Statia Bod
New Passengers Building Axis Bod Station
Km183+308
PLATFORMA DEPOZITARE DESEURI
WASTE PLATFORM
Ax tunel pietonal nou
New Pedestrian tunnel Axis
Km183+350
Capat copertina linia 1
Canopy limit track 1
Km183+357,5
Peron nou linia 1/h=+0,55NSS/L=150m/l=3,0-6,0m
New Platform track 1/h=+0,55NSS/L=150m/l=3,0-6,0m
Capat peron linia 1
Platform limit track 1
Km183+425
HALA


Supratraversare linii CF
Fixari terminale pe stalpi Be proiectati
Tracks over-crossing
Terminal fastenings on designed concrete poles
Km 183+670
Stalpi tip SECP4
SECP4 type poles
Stalp tip SECP4
SECP4 type pole
Km 183+498
Stalp tip SECP4
SECP4 type pole
Km 183+554
Stalp tip SECP4
SECP4 type pole
Km 183+612
SN
SN
SN
SN
SN
SN
SE74
SE76
SE77
SE72
SE73
SE82A
SE84
SE85
SE86
SE87
SE90
SE91
SE92
SE95
SE96
SE70
SE78
SE80
SE88
SE94
SE69
SE79
SE81
SE89
SE93
X6
X5
X4
V05.05
V05.06
M6
Hm5ex
Hm6ex
Hm7ex
750m=Lu=750m
790m=Lu=795m
825m=Lu=820m
750m=Lu=760m
9.50m
5.00m
9.50m
183+500
183+600
183+700
Km183+4
LEA 3 fire
Intersectie LEA 3 fire (H=10.08m)
Km183+595.11



Supratraversare linii CF
Fixari terminale pe stalpi Be proiectati
Tracks over-crossing
Terminal fastenings on designed concrete poles
Km 183+889

Stalp tip SECP4
SECP4 type pole
Km 183+725

Stalp tip SECP4
SECP4 type pole
Km 183+779

Stalp tip SECP4
SECP4 type pole
Km 183+835

Stalp tip SECP4
SECP4 type pole

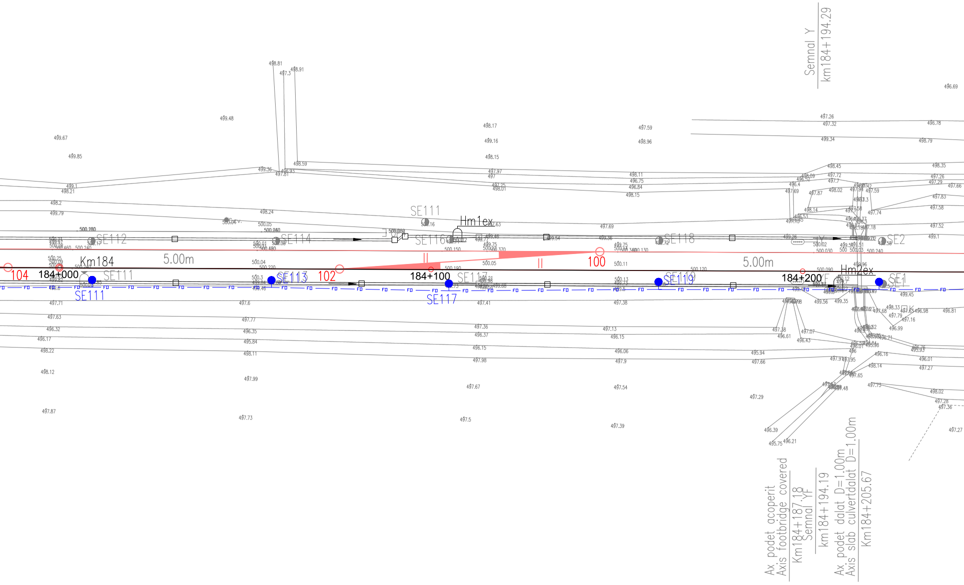
Stalp tip SECP4
SECP4 type pole

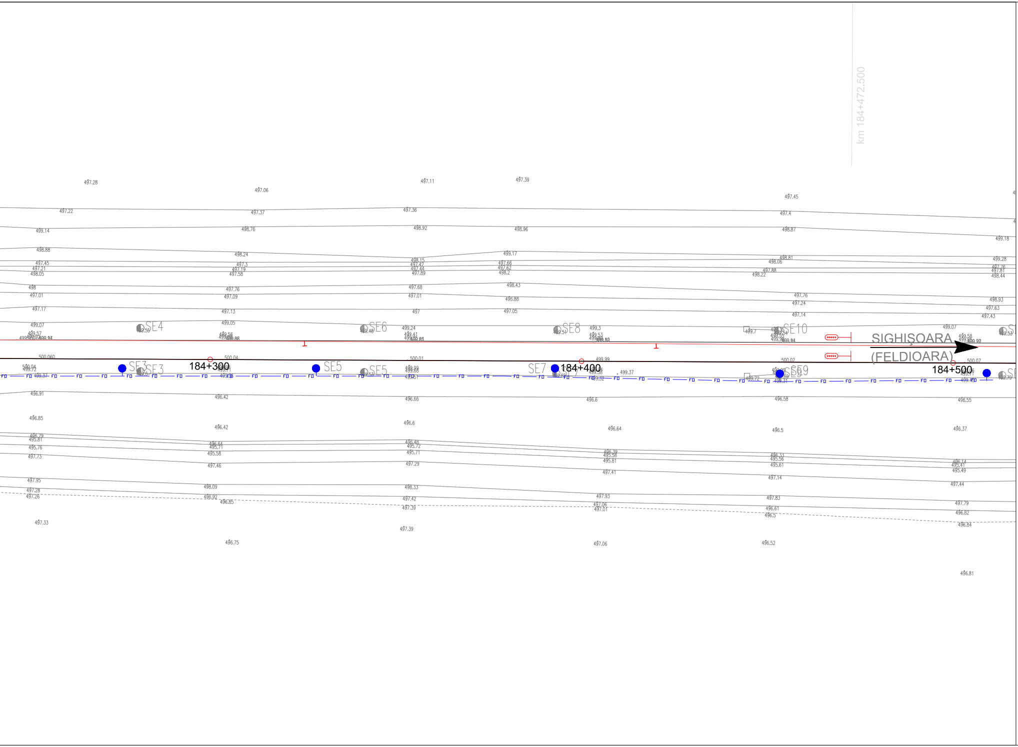
Cablu FO aerian proiectat - 1070 m
Designed aerial OF cable - 1070 m

Cablu FO aerian existent
Existing aerial OF cable

Cutie de jonctiune si fixare terminala pe stalp Be proiectat
Junction box and terminal fastening on designed concrete pole
km183+889

SN
SN
SN
SN
SN
SE97
SE98
SE99
SE99A
SE100
SE101
SE102
SE103
SE104
SE105
SE106
SE107
SE108
SE108
SE109
SE109
SE110
114
110
108
106
112
116
183+800
183+900
5.00m
V05.08
V05.07
V05.09
XIII
XII
XI
10/60
8/60
4/60
HM4
HM2
FO
PL. BET.


Semnal Y
km184+194.29
SE111
Hm1ex
SE112
SE114
SE116
SE118
SE2
Km184
5.00m
5.00m
104
184+000
SE111
SE111
SE113
102
184+100
SE117
SE117
100
SE119
184+200
Hm2ex
SE1
Ax. podet acoperit
Axis footbridge covered
Km184+187.18
Semnal YF
km184+194.19
Ax. podet dalat D=1.00m
Axis slab culvertdalat D=1.00m
Km184+205.67
FO


km 184+472.500
SIGHIŞOARA
(FELDIOARA)
184+300
184+400
184+500
SE3
SE4
SE5
SE6
SE7
SE8
SE9
SE10
FO
497.28
497.06
497.11
497.39
497.45
497.22
497.37
497.36
497.4
499.14
498.76
498.92
498.96
498.87
499.18
498.88
498.24
499.17
498.81
499.28
497.45
497.21
498.05
498.43
497.76
497.01
497.09
497.68
498.88
497.24
497.14
497.17
497.13
497
497.05
499.07
499.05
499.24
499.3
500.060
500.04
500.01
499.99
500.02
500.07
499.37
496.91
496.42
496.66
496.6
496.58
496.55
496.85
496.64
496.5
496.37
495.76
497.73
497.46
497.29
497.41
497.14
497.44
497.95
498.09
498.33
497.93
497.83
497.79
497.33
496.75
497.39
497.06
496.52
496.81

LEGENDA TELECOMUNICATII
TELECOMMUNICATIONS LEGEND:

— FO — FO —	Cablu cu fibre optice aerian existent Existing aerial fibre optic cable
✕FO — FO✕	Cablu cu fibre optice aerian existent - demontat Dismounted existing aerial fibre optic cable
— FO —	Cablu cu fibre optice subteran proiectat Designed underground fibre optic cable
✕FO — FO✕	Cablu cu fibre optice subteran existent - demontat Dismounted existing underground fibre optic cable
— FO —	Cablu cu fibre optice aerian proiectat Designed aerial fibre optic cable
CT □	Camera de tragere existenta / Existing manhole
CM ◇	Camereta de beton existenta / Existing concrete handhole
CM ◇	Camereta de beton proiectata / Designed concrete handhole
◈	Cutie de jonctiune instalata in camereta Junction box installed in handhole
═	Canalizatie telefonica cu tevi PVC Telephone conduit with PVC pipes
═	Subtraversare c.f. cu teava PVC Rail tracks under-crossing with PVC pipe
SN ●	Stalp de beton proiectat pentru sustinerea cablului FO Designed concrete pole for supporting the OF cable
●	Stalp de beton existent care se pastreaza Preserved existing concrete pole
●	Stalp de beton existen - demontat Dismounted existing concrete pole

DESCRIEREA LUCRĂRILOR

Lucrările de mutare şi protejare a cablului cu fibre optice existent se vor desfăşura în două faze.

Faza 1 - se execută înainte de începerea lucrărilor de construcţii pentru eliberarea amplasamentului prin:

- modificarea introducerii cablului cu fibre optice din direcţia Stupini în clădirea staţiei CF prin execuţia unei canalizaţii cu ţevi PVC, precum şi a unei noi racordări la traseul principal prin plantarea unui stâlp tip SECP4 şi instalarea unei camerete la baza acestuia.
- instalarea aeriană a unui nou cablu cu fibre optice pe partea stângă a liniei CF între clădirea existentă şi km 183+889, folosind stâlpi noi de beton (tip 10001 în aliniament şi tip SECP4 la supratraversari, la colţuri şi la stâlpii finali).
- de la clădirea staţiei cablul va subtraversa liniile c.f. la km 183+105, respectiv va supratraversa liniile c.f. la km 183+670 la km 183+889
- pe stâlpul proiectat pe partea dreaptă de la km 183+889, cablul proiectat se joncţionează de cablul existent.

După preluarea comunicaţiilor pe traseul modificat cablul cu fibre optice existent se va demonta.

DESCRIPTION OF THE WORKS

The relocation and the protection of the fiber optical cable will be made in 2 phases.

1st Phase - it will be performed before the starting of the construction works to set free the site, by:

- changing the existing introduction of the optical fiber cable from Stupini direction in the station building making a telephone conduit with PVC pipes and also a new coupling to main trace of the cable using a pole type SECP4 and a handhole near it.
- installation of a new aerial fiber optical cable on the left side of the railway tracks between the existing station building and km 183+889, using new concrete poles (type 10001 in alignment and type SECP4 at over-crossings, at corners and at the final poles).
- from the station building the cable will under-cross the rail tracks at km 183+105, respective it will over-cross the rail tracks at km 183+670 and at km 183+889
- pe stâlpul proiectat pe partea dreaptă de la km 183+889, cablul proiectat se joncţionează de cablul existent.
- On the designed pole from the right side of tracks at km 183+889, the designed cable will be jointed with the existing aerial cable.

After the taking over the communications on the new optical fiber cable, the existing cable will be dismounted.

D					
C					
B					
A					
Indice Index	Data Date	Modificare Modification/Revision	Proiectant Designer	Aprobat Consultant Approved Consultant	Aprobat CFR Approved CFR

GUVERNUL ROMANIEI
ROMANIAN GOVERNMENT

PROIECT FINANŢAT DE UNIUNEA EUROPEANĂ
EUROPEAN UNION FINANCED PROJECT

C.N.C.F. "C.F.R." - S.A.

CLIENT / CLIENT

ITALFERR
GRUPPO FERROVIE DELLO STATO
Joint Venture leader

Scott Wilson

OBERMEYER
PLANEN + BERATEN GmbH

TECNIC
Consulting Engineers

CONSULTANT / CONSULTANT

			Data Date	Semnătură Signature
Aprobat Approved	Şef proiect Project manager	R. Liuzza	01.2012	
Aprobat Approved	Coordonator Secţiune 1 Section 1 Coordinator	C. Gambelli	01.2012	
Verificat Checked	Expert Verificator Checking Expert	Pino Amodio	01.2012	

SUBCONTRACTANT / SUBCONTRACTOR

AREX COMPANY

Aprobat Approved	Responsabil Subcontractant Subcontractor Responsible	A.Stanciu - Dinulescu	01.2012	
Întocmit Elaborated	Proiectant Designer	Stefania Archip	01.2012	

Reabilitarea liniei de cale ferata Brasov - Simeria, parte componentă a coridorului IV Pan European, pentru circulaţia trenurilor cu viteza maximă de 160 km/h,
Tronsonul : Brasov - Sighisoara
Rehabilitation of the railway line Brasov - Simeria, component Part of the IV Pan-European Corridor, for the trains circulation with maximum speed of 160 km/h,
Section : Brasov - Sighisoara

Proiect/Project
2004/RO/16/P/PA/003

Faza / Phase:
P.Th. / T.D.

Denumire desen / Drawing Title :

Mutarea si protejarea cablului FO existent - Faza 1
Plan de situatie - Statia Bod; Bod Station - Lyaout Plan
Relocation and protection of existing OF cable - 1st Phase

Codificare / Codification System	Scara / Scale 1:500	LOT / LOT	Nr. / No 01 / 02

E A 5 1   0 1   C   0 5   L 8   T C   0 2   1   1   0 0 1   1