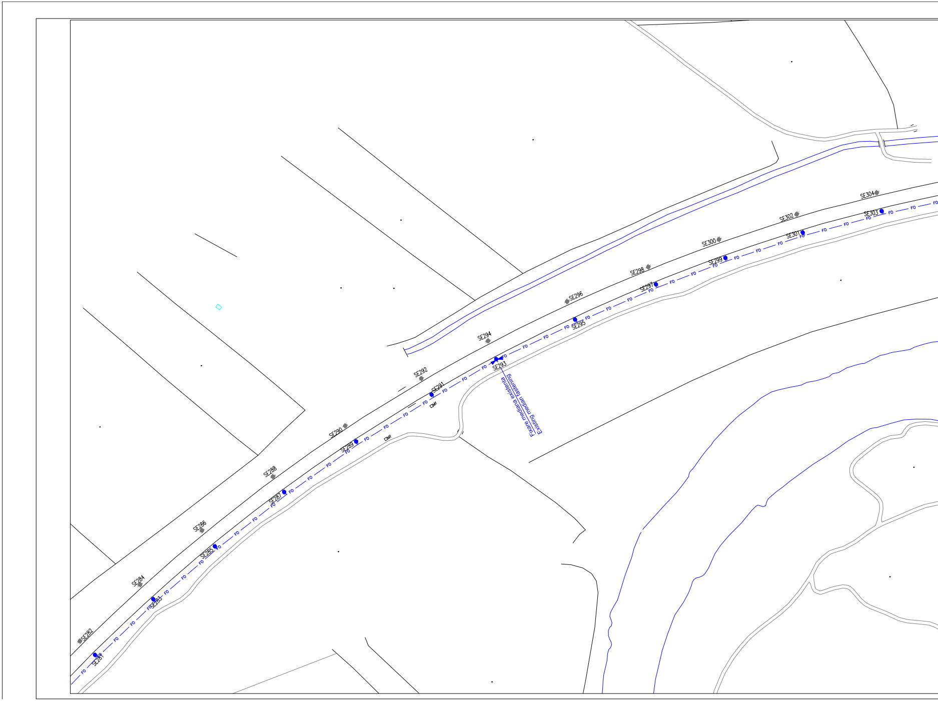

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SE282
SE283
SE284
SE285
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SE293
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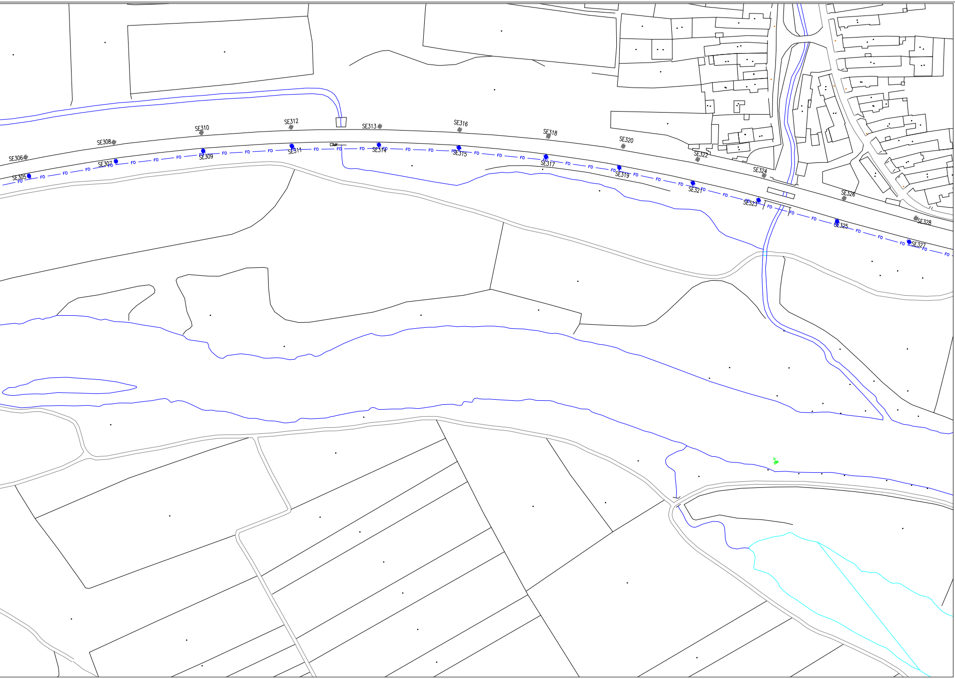
SE297
SE298
SE299
SE300
SE301
SE302
SE303
SE304
FO
Fixare mediana existenta
Existing median fastening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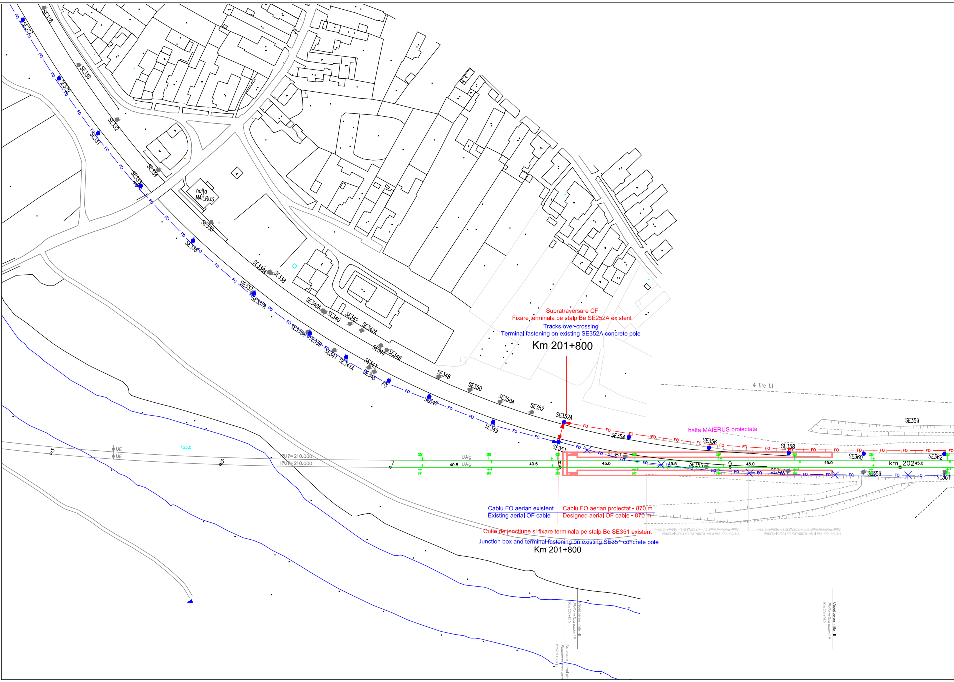
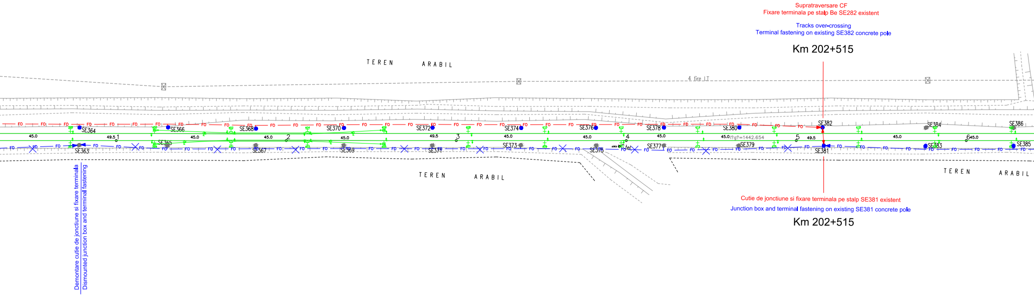
SE325
SE326
SE327
SE328
FO


Supratraversare CF
Fixare terminala pe stalp Be SE252A existent
Tracks over-crossing
Terminal fastening on existing SE352A concrete pole
Km 201+800
Cablu FO aerian existent
Existing aerial OF cable
Cablu FO aerian proiectat - 870 m
Designed aerial OF cable - 870 m
Cutie de jonctiune si fixare terminala pe stalp Be SE351 existent
Junction box and terminal fastening on existing SE351 concrete pole
Km 201+800
halta MAIERUS
halta MAIERUS proiectata
4 fire LT
km 202
SE327
SE328
SE329
SE330
SE331
SE332
SE333
SE334
SE335
SE336
SE337
SE337A
SE338
SE338A
SE339
SE339A
SE340
SE340A
SE341
SE341A
SE342
SE342A
SE343
SE344
SE345
SE346
SE347
SE348
SE349
SE350
SE350A
SE351
SE352
SE352A
SE353
SE354
SE355
SE356
SE357
SE358
SE359
SE360
SE361
SE362
FO
UE
UA
5
6
7
8
9
40.5
45.0
49.5
123.0
!?U?=210.000



TEREN ARABIL
4 fire I.T
FO
SE364
SE366
SE368
SE370
SE372
SE374
SE376
SE378
SE380
SE382
SE384
SE386
45.0
49.5
1
2
3
4
5
6
l?g?=1442.654
SE363
SE365
SE367
SE369
SE371
SE373
SE375
SE377
SE379
SE381
SE383
SE385
tel.
TEREN ARABIL
TEREN ARABIL

Supratraversare CF
Fixare terminala pe stalp Be SE282 existent

Tracks over-crossing
Terminal fastening on existing SE382 concrete pole

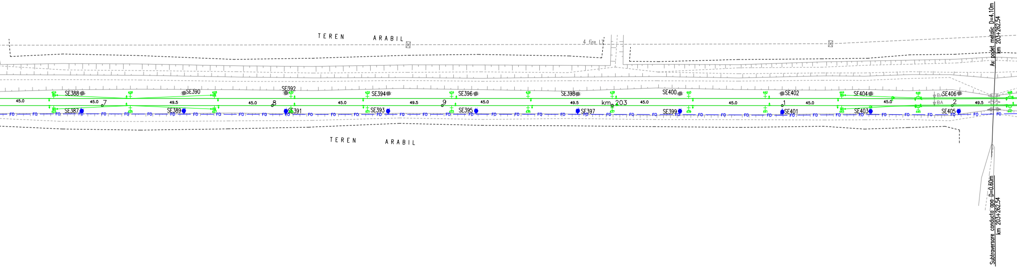
Km 202+515

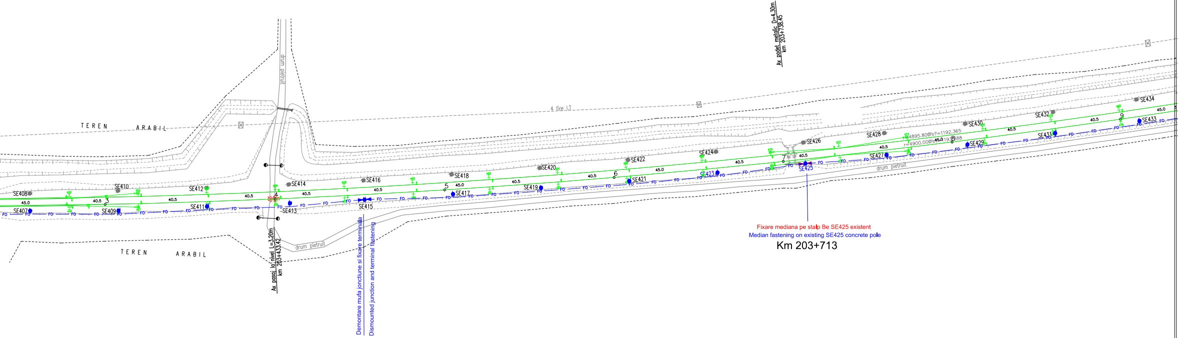
Cutie de jonctiune si fixare terminala pe stalp SE381 existent

Junction box and terminal fastening on existing SE381 concrete pole

Km 202+515

Demontare cutie de jonctiune si fixare terminala
Dismounted junction box and terminal fastening


TEREN ARABIL
4 fire LT
SE388
SE390
SE392
SE394
SE396
SE398
SE400
SE402
SE404
SE406
45.0
7
49.5
8
9
km 203
1
2
BA
SE387
SE389
SE391
SE393
SE395
SE397
SE399
SE401
SE403
SE405
FO
TEREN ARABIL
Ax podet metalic D=4.10m
km 203+262.54
Subtraversare conducta apa D=0.60m
km 203+262.54


TEREN ARABIL
TEREN ARABIL
drum pietruit
drum pietruit
drum pietruit
4 fire I.T.
Ax pasaj la nivel L=3.20m
km 203+433.42
Ax podet metalic D=4.30m
km 203+738.45
SE407
SE408
SE409
SE410
SE411
SE412
SE413
SE414
SE415
SE416
SE417
SE418
SE419
SE420
SE421
SE422
SE423
SE424
SE425
SE426
SE427
SE428
SE429
SE430
SE431
SE432
SE433
SE434
3
4
5
6
7
8
9
45.0
40.5
FO
r=4895.800
r=4900.000
1192.365

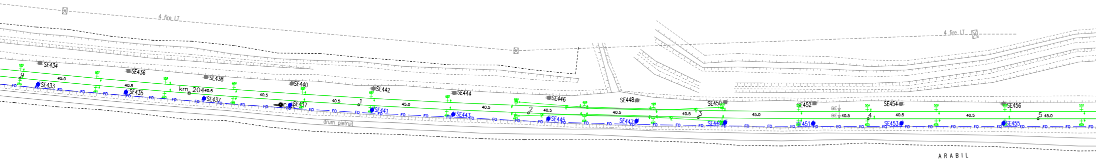
Demontare mufa jonctiune si fixare terminala

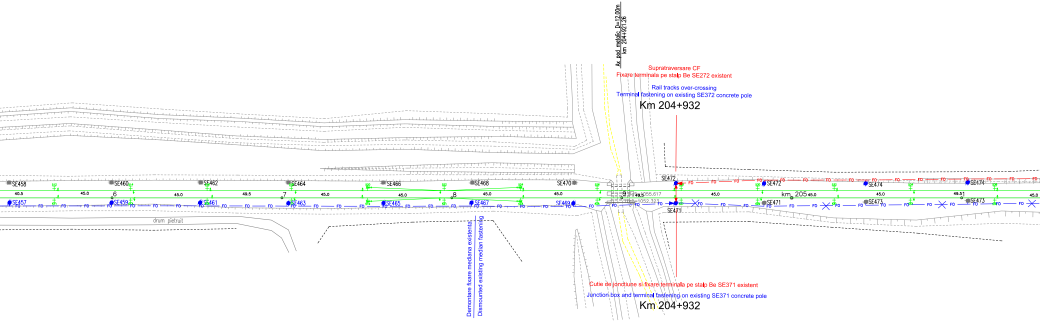
Dismounted junction and terminal fastening

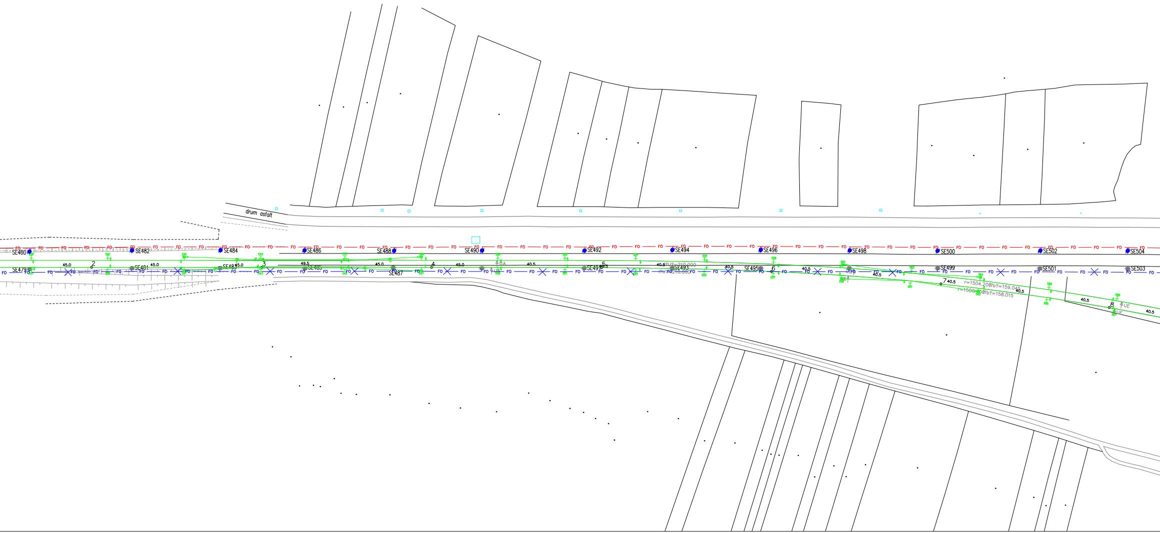
Fixare mediana pe stalp Be SE425 existent

Median fastening on existing SE425 concrete pole

Km 203+713


4 fire LT
4 fire LT
SE434
SE436
SE438
SE440
SE442
SE444
SE446
SE448
SE450
SE452
SE454
SE456
SE433
SE435
SE437
SE437
SE441
SE443
SE445
SE447
SE449
SE451
SE453
SE455
km 204
C.el.
45.0
40.5
40.5
40.5
40.5
45.0
40.5
40.5
40.5
40.5
45.0
40.5
40.5
40.5
45.0
1
2
3
4
5
BE
BE
FO
drum pietruit
ARABIL


Ax pod metalic D=12.00m
km 204+921.26
Supratraversare CF
Fixare terminala pe stalp Be SE272 existent
Rail tracks over-crossing
Terminal fastening on existing SE372 concrete pole
Km 204+932
SE458
SE460
SE462
SE464
SE466
SE468
SE470
SE472
SE472
SE474
SE474
SE457
SE459
SE461
SE463
SE465
SE467
SE469
SE471
SE471
SE473
40.5
45.0
45.0
49.5
45.0
45.0
45.0
45.0
49.5
45.0
45.0
49.51
45.0
6
7
8
9
=1055.617
=1052.323
km 205
FO
drum pietruit
Demontare fixare mediana existenta
Dismounted existing median fastening
Cutie de jonctiune si fixare terminala pe stalp Be SE371 existent
Junction box and terminal fastening on existing SE371 concrete pole
Km 204+932


drum asfalt
FO
SE480
SE482
SE484
SE486
SE488
SE490
SE492
SE494
SE496
SE498
SE500
SE502
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SE481
SE483
SE485
SE487
SE491
SE493
SE495
SE499
SE501
SE503
2
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4
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49.5
40.5
UA
UE
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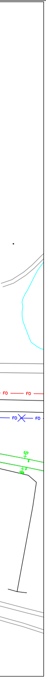
r=1500.000?b?=158.015



LEGENDA TELECOMUNICATII
TELECOMMUNICATIONS LEGEND:

— FO — FO —	Cablu cu fibre optice aerian existent Relocated existing aerial OF cable
—✕FO—✕FO—	Demontare cablu FO aerian existent Dismounted existing aerial OF cable
— FO — FO —	Cablu FO aerian proiectat Designed aerial OF cable
●	Stalp de beton existent care se pastreaza Existing concrete pole which preserved
●	Stalp de beton existen - demontat Dismounted existing concrete pole

DESCRIEREA LUCRĂRILOR

Cablul cu fibre optice existent instalat pe partea dreaptă a căii ferate este afectat în zonele unde se fac trecerile de la linia c.f. existentă la noile variante de traseu şi pe porţiunile unde linia c.f. proiectată este ripată lateral faţă de poziţia liniei existente iar stâlpii de beton existenţi trebuie demontaţi.

Lucrările de protejare a cablului cu fibre optice existent se vor realiza în 2 faze.

Faza 1 - Eliberarea amplasamentului fără întreruperea funcţionării cablului cu fibre optice existent

Inaintea începerii lucrărilor de construcţii trebuie executate următoarele lucrări:

a) Cablul cu fibre optice proiectat pe stâlpii de beton existenţi pe partea dreaptă a căii ferate între stâlpii SE47 (staţia Feldioara) şi SE41.

b) Inserarea unei bucăţi noi de cablu cu fibre optice pe partea stângă a căii ferate între stâlpii SE41 şi SE237.
Trecerile de pe o parte pe cealaltă a căii ferate se vor realiza prin supratraversarea liniilor c.f. între stâlpii SE41-SE42 şi SE238-SE237.
La capete cablul proiectat se va joncţiona cu cel existent.
Cablul proiectat va avea fixări mediane pe stâlpii SE92, SE138 şi SE188.

c) Intre stâlpii SE237 şi SE351 se va păstra cablul cu fibre optice instalat pe partea dreaptă a căii ferate pe stâlpii de beton existenţi.
Fixarea mediană de pe stâlpul SE293 se va menţine.

d) Inserarea unei bucăţi noi de cablu cu fibre optice pe partea stângă a căii ferate între SE351 şi SE381.
Trecerile de pe o parte pe cealaltă a căii ferate se vor realiza prin supratraversarea liniilor c.f. între stâlpii SE351-SE352 şi SE382-SE381.
La capete cablul proiectat se va joncţiona cu cel existent.

e) Intre stâlpii SE381 şi SE471 se va păstra cablul cu fibre optice existent instalat pe partea dreaptă a căii ferate pe stâlpii de beton existenţi.
Se va realiza o fixare mediană pe stâlpul SE425, iar fixările existente se vor demonta.

f) Inserarea unei bucăţi noi de cablu cu fibre optice pe partea stângă a căii ferate între SE471 şi staţia Apaţa, deoarece cablul existent este afectat de construcţia noilor linii c.f. din staţie.
Trecerea de pe de pe o parte pe cealaltă a căii ferate se va realiza prin supratraversarea liniilor c.f. între stâlpii SE471-SE472.
Joncţionarea cablului proiectat de cel existent se va face pe stâlpul SE471.

g) După preluarea comunicaţiilor pe noile cabluri cu fibre optice, cablul existent se va demonta.

DESCRIPTION OF THE WORKS

The existing fiber optic cable is installed on the right side of the railway tracks and it is affected in the areas where will be made the passing from the existing to the new railway routes and on the sections where the designed rail track is shifting laterally given to the existing position of the existing track and where the existing concrete poles must be dismounted.

The protection works of the existing fiber optic cable will be performed in 2 phases.

1st Phase - Setting free the works site without interruption of the existing fiber optic cable operation

Before the beginning of the construction works of the new rail tracks it must be performed the following works:

a) The designed fiber optic cable on the existing concrete poles on the right side of the railway tracks between the SE47 (Feldioara station) and SE41 poles.

b) Insertion of one new fiber optic cable on the left side of the railway tracks between the SE41 and SE237 poles.
The passing from one to another side of the railway tracks will be performed by over-crossings of tracks between SE41-SE42 and SE238-SE237 poles.
At the ends the designed cable will be jointed with the existing one.
The designed cable will have median fastenings on SE92, SE138 and SE188 poles.

c) Between the SE237 and SE351 poles it will be retained the existing fiber optic cable installed on the right side of tracks on the existing concrete poles.
The median fastening on the SE293 pole will remain.

d) Insertion of one new fiber optic cable on the left side of the railway tracks between the SE351 and SE381 poles.
The passing from one to another side of the railway tracks will be performed by over-crossings of tracks between SE351-SE352 and SE382-SE381 poles.
At the ends the designed cable will be jointed with the existing one.

e) Between the SE381 and SE471 poles it will be retained the existing fiber optic cable installed on the right side of tracks on the existing concrete poles.
It will performed a median fastening on the SE425 pole and the existing fastenings will be dismounted.

f) Insertion of one new fiber optic cable on the left side of the railway tracks between the SE471 pole and Apaţa station because the existing cable is affected by the construction of the new tracks in the station.
The passing from one to another side of the railway tracks will be performed by over-crossings of tracks between SE471-SE472 poles.
The junction of the designed cable with the existing one will be made on the SE471 pole.

g) After taking over the communications on the new fibre optic cables, 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

CLIENT / CLIENT

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

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		
Aprobat Approved	Coordonator Secţiune 1 Section 1 Coordinator	C. Gambelli		
Verificat Checked	Expert Verificator Checking Expert	Pino Amodio		

SUBCONTRACTANT / SUBCONTRACTOR

AREX COMPANY

Aprobat Approved	Responsabil Subcontractant Subcontractor Responsible	A.Stanciu - Dinulescu	06.2011	
Întocmit Elaborated	Proiectant Designer	Gabriela Trifan	06.2011	Trifan

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 - Faza1
Plan de situatie - int.Feldioara - Apata; Feldioara- Apata section - Layout Plan
Relocation and protection of existing OF cable - 1st Phase

Codificare / Codification System	Scara / Scale 1:1000	LOT / LOT	Nr. / No 02 / 05

E A 5 1 | 0 1 | C | 0 8 | L 7 | T C | 0 4 | 1 | 1 | 0 0 1 | 1