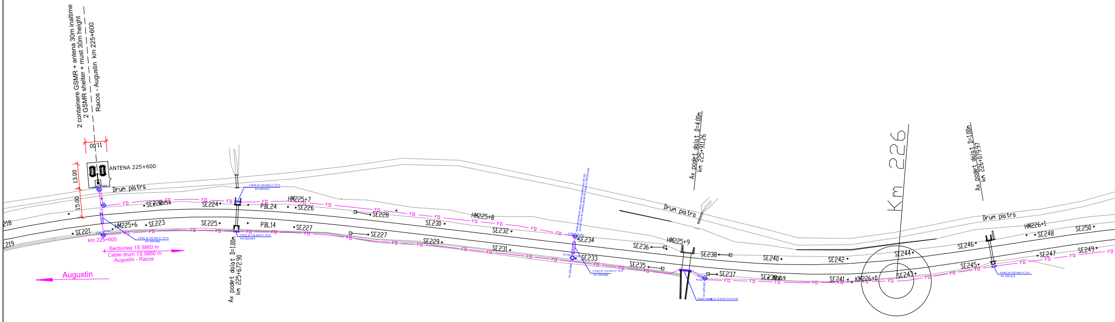
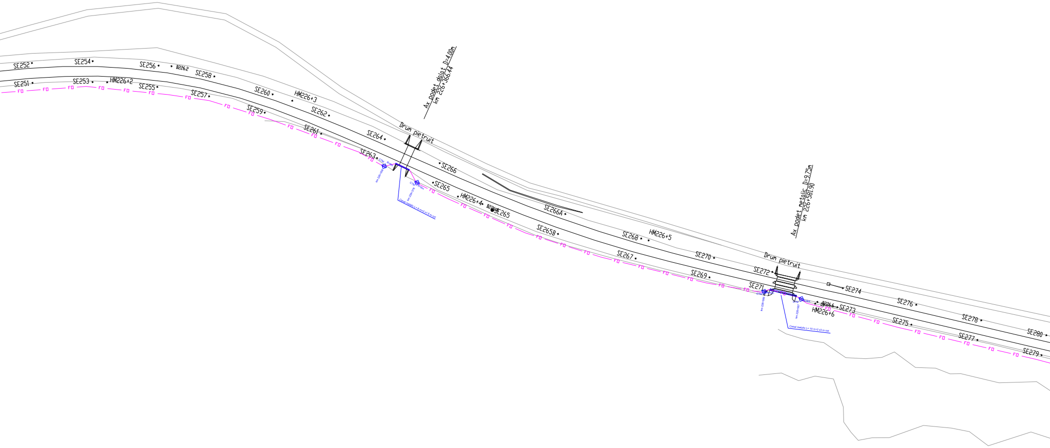
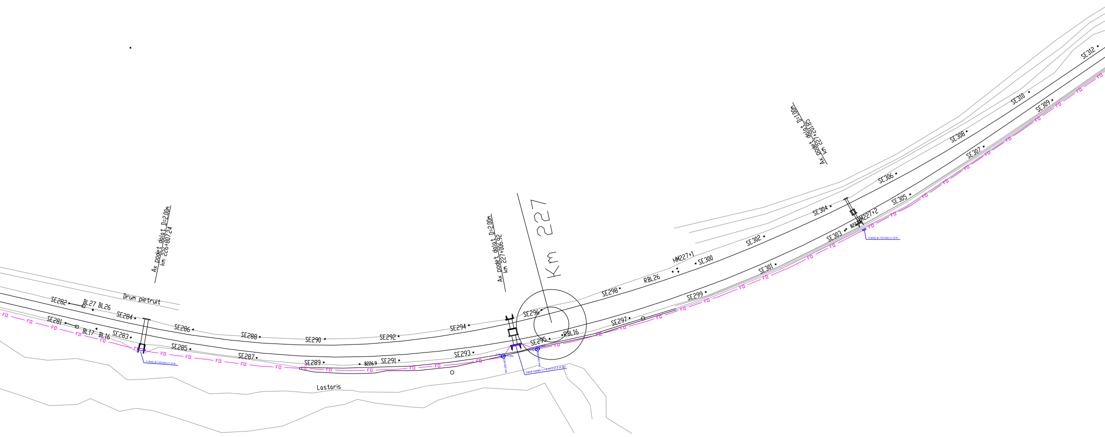
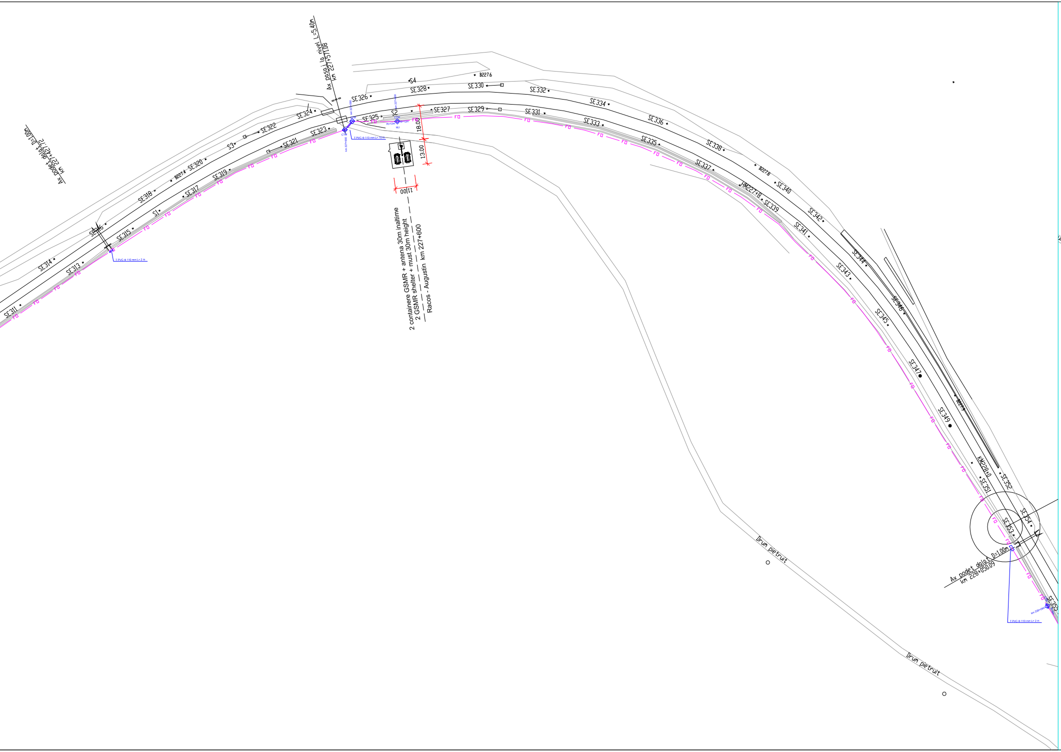
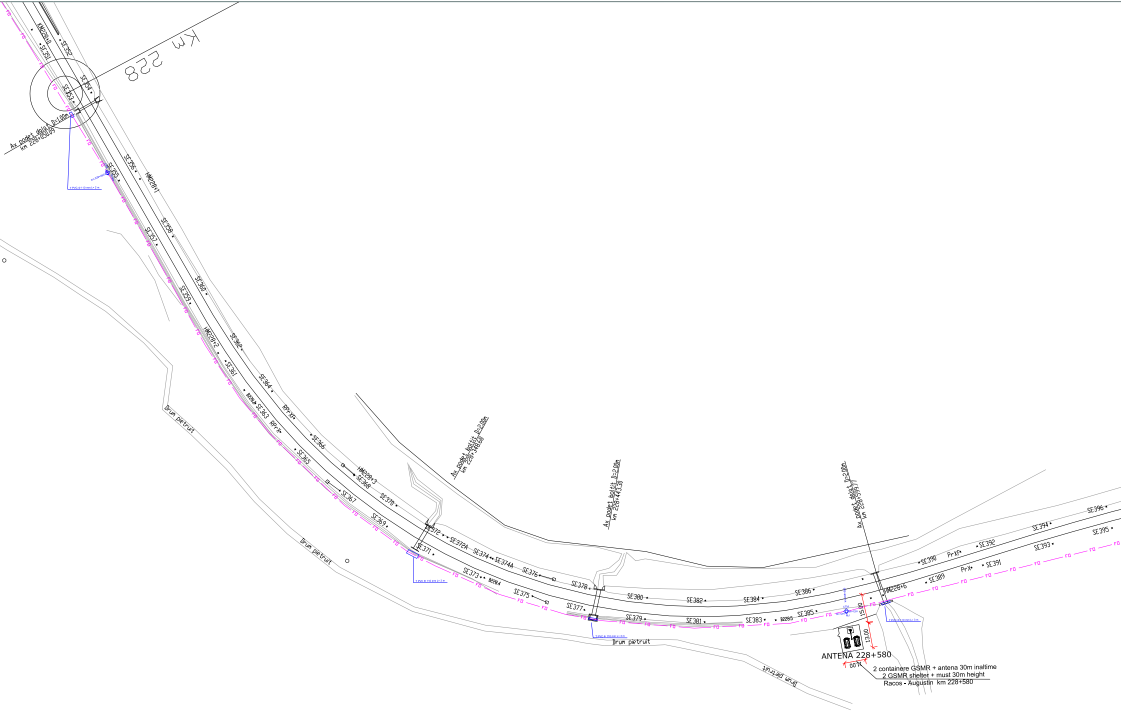
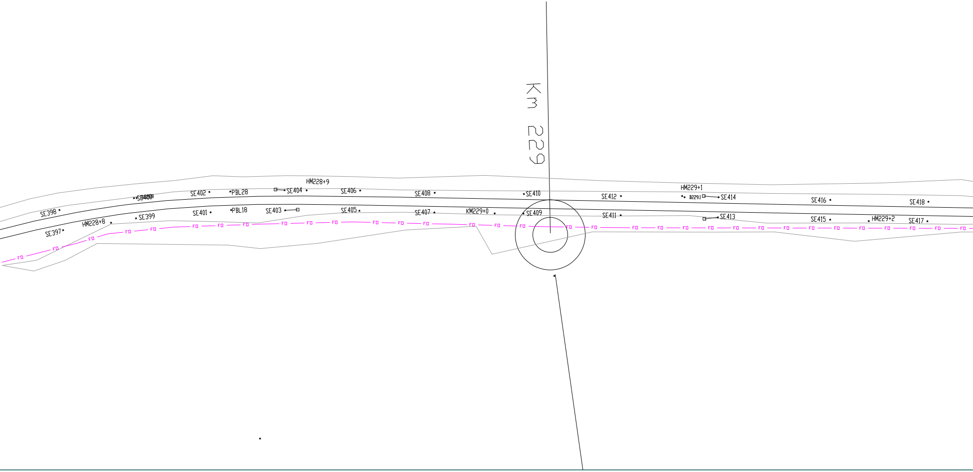

2 containere GSMR + antena 30m inaltime
2 GSMR shelter + must 30m height
Racos - Augustin km 225+600
11.00
13.00
15.00
ANTENA 225+600
Drum piatra
SE218
SE219
SE220
SE221
SE222
SE223
SE224
SE225
SE226
SE227
SE228
SE229
SE230
SE231
SE232
SE233
SE234
SE235
SE236
SE237
SE238
SE239
SE240
SE241
SE242
SE243
SE244
SE245
SE246
SE247
SE248
SE249
SE250
HM225+6
HM225+7
HM225+8
HM225+9
HM226+1
KM226+0
PBL24
PBL14
FO
km 225+600
Sectiunea 1S 5860 m
Cable drum 1S 5860 m
Augustin - Racos
Augustin
T PVC Φ 110 mm L= 12 m
km 225+600
T PVC Φ 110 mm L= 12 m
km 225+673
CTM
R=6m
R=12m
Ax podet dalat D=1.00m
km 225+672.90
T PVC Φ 110 mm L= 12 m
km 225+850
Ax podet dalat D=4.00m
km 225+911.26
Canal metalic L= 6 m+2 x1.5 m cot
km 225+922
Km 226
Ax podet dalat D=1.00m
km 226+079.97
T PVC Φ 110 mm L= 2 m
km 226+673


SE252
SE254
SE256
B226.2
SE258
SE251
SE253
HM226+2
SE255
SE257
SE259
SE260
HM226+3
SE262
SE261
SE264
SE263
Ax podet dalat D=4.00m
km 226+366.44
Drum pietruit
CTM
R=6m
km 226+358
CTM
R=6m
km 226+376
Canal metalic L= 6 m+2 x1.5 m cot
SE266
SE265
HM226+4
B2264
SE265
SE266A
SE265B
SE268
HM226+5
SE267
SE270
SE269
Ax podet metalic D=9.75m
km 226+581.90
Drum pietruit
SE272
SE271
CTM
km 226+566
CTM
km 226+587
Canal metalic L= 10 m+2 x3 m cot
SE274
B226.6
SE273
HM226+6
SE276
SE275
SE278
SE277
SE280
SE279
FO


Ax podet dalat D=2.00m
km 226+807.24
Ax podet dalat D=2.00m
km 227+006.92
Km 227
Ax podet dalat D=1.00m
km 227+201.85
Drum pietruit
Lastaris
SE281
SE282
BL27
BL26
BL17
BL16
SE283
SE284
SE285
SE286
SE287
SE288
SE289
SE290
SE291
SE292
SE293
SE294
SE295
SE296
RBL16
SE297
SE298
RBL26
HM227+1
SE299
SE300
SE301
SE302
SE303
SE304
SE305
SE306
HM227+2
SE307
SE308
SE309
SE310
SE312
B226.9
FO
T PVC Φ 110 mm L= 2 m
Canal metalic L= 4 m+2 x1.5 m dot.
R=6m


Ax podet dalat D=1.00m
km 227+427.72
Ax pasaj la nivel L=5.40m
km 227+571.08
2 containere GSMR + antena 30m inaltime
2 GSMR shelter + must 30m height
Racos - Augustin km 227+600
18.00
13.00
11.00
T.PVC Φ 110 mm L= 10 m
T.PVC Φ 110 mm L= 2 m
km 227+580
km 227+600
CTM
MJ
R=12m
B227.4
B227.6
B227.8
B227.9
HM227+8
KM228+0
S1
S2
S3
S4
SE311
SE313
SE314
SE315
SE316
SE317
SE318
SE319
SE320
SE321
SE322
SE323
SE324
SE325
SE326
SE327
SE328
SE329
SE330
SE331
SE332
SE333
SE334
SE335
SE336
SE337
SE338
SE339
SE340
SE341
SE342
SE343
SE344
SE345
SE346
SE347
SE349
SE351
SE352
SE353
SE354
SE355
FO
Drum pietruit
Drum pietruit
Ax podet dalat D=1.00m
km 228+050.09
km 228+090


Km 228
KM228+0
SE351
SE352
SE353
SE354
Ax podet dalat D=1.00m
km 228+050.09
T PVC Φ 110 mm L= 2 m
km 228+050
SE355
SE356
HM228+1
SE357
SE358
SE359
SE360
HM228+2
SE361
SE362
B228.2
SE363
SE364
RPrXF
RPrX
SE365
SE366
HM228+3
SE367
SE368
SE369
SE370
SE371
SE372
SE372A
SE373
B228.4
SE374
SE374A
SE375
SE376
SE377
SE378
SE379
SE380
SE381
SE382
SE383
B228.5
SE384
SE385
SE386
HM228+6
SE389
SE390
PrXF
PrX
SE391
SE392
SE393
SE394
SE395
SE396
FO
Drum pietruit
Drum pietruit
Drum pietruit
Drum pietruit
Ax podet boltit D=2.00m
km 228+348.68
Ax podet boltit D=2.00m
km 228+443.30
Ax podet dalat D=2.00m
km 228+599.77
T PVC Φ 110 mm L= 3 m
T PVC Φ 110 mm L= 3 m
T PVC Φ 110 mm L= 3 m
km 228+580
CTM
MJ
R=12m
R=12m
15.00
13.00
11.00
ANTENA 228+580
2 containere GSMR + antena 30m inaltime
2 GSMR shelter + must 30m height
Racos - Augustin km 228+580


Km 229
HM228+9
HM228+8
HM229+1
HM229+2
KM229+0
B229.1
PBL28
PBL18
SE397
SE398
SE399
SE400
SE401
SE402
SE403
SE404
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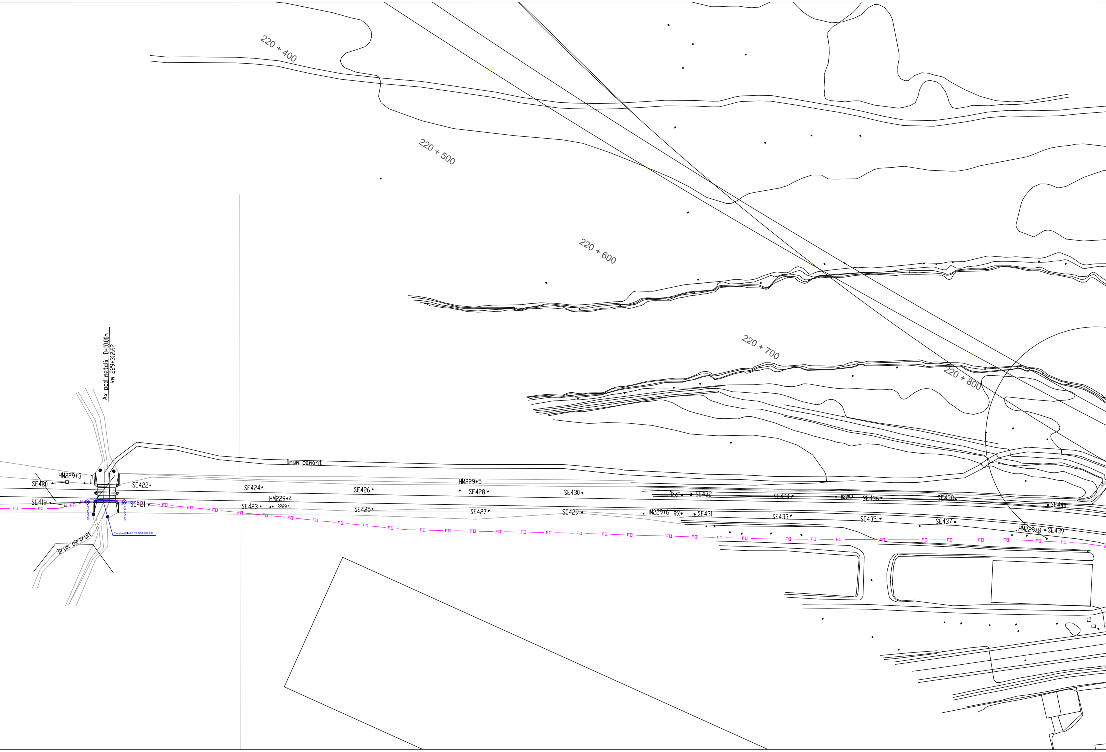
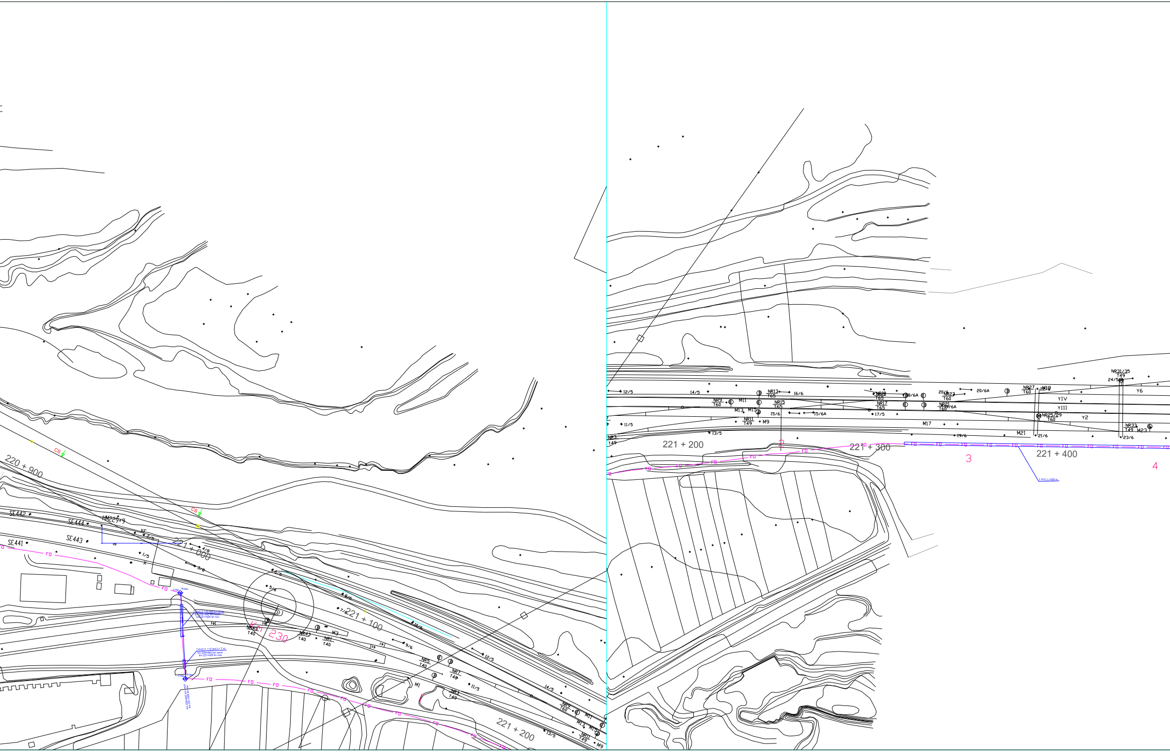
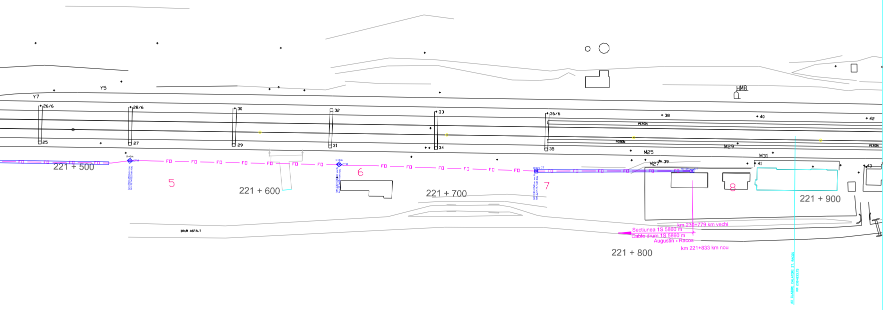
SE415
SE416
SE417
SE418
FO


220 + 400
220 + 500
220 + 600
220 + 700
220 + 800
Ax pod metalic D=10,00m
km 229+312.62
Drum pamant
HM229+3
SE420
SE419
SE421
SE422
CTM
km 229+300
km 229+330
Canal metalic L= 12 m+2 x3m cot
Drum pietruit
SE423
HM229+4
B229.4
SE424
SE425
SE426
HM229+5
SE427
SE428
SE429
SE430
HM229+6
RX
SE431
RX
SE432
SE433
SE434
B229.7
SE435
SE436
SE437
SE438
HM229+8
SE439
SE440
FO


220 + 900
CS
CS
SE442
SE444
HM229+9
SE443
SE441
XF
2/5
221 + 000
4/8
1/5
3/8
FO
CTM
R=6m
T PVC F 110 mm L= 17 m
km 228+942 km vechi
km 221+000 km nou
T PVC F 110 mm L= 7 m
km 228+942 km vechi
km 221+000 km nou
CTM
R=6m
km 228+942 km vechi
km 221+000 km nou
6/6
5/6
8/6
7/6
221 + 100
10/6
Km 230
NR45
T40
NR43
T40
M3
NR1
T40
9/6
12/5
NR5
T40
NR7
T40
M1
11/5
NR3
T49
14/5
NR9
T60
M11
M13
M15
NR11
T49
M9
13/5
221 + 200
12/5
14/5
NR13
T65
16/6
NR15
T65
15/6
15/6A
11/5
NR19
T65
18/6A
NR17
T65
17/5
20/6
NR23
T60
20/6A
NR21
T60
19/6A
NR27
T60
M19
22/6
YIV
YIII
Y2
Y6
NR25/29
T60
M17
M21
21/6
19/6
NR31/35
T49
24/5
NR33
T49
M23
23/6
2
221 + 300
3
221 + 400
4
T PVC L=200 m


Y7
Y5
26/6
28/6
30
32
33
36/6
38
40
42
25
27
29
31
34
35
HM8
PERON
PERON
PERON
M25
M27
M29
M31
39
41
43
FO
R=6m
CTM
CT
221 + 500
221 + 600
221 + 700
221 + 800
221 + 900
5
6
7
8
DRUM ASFALT
km 230+779 km vechi
Sectiunea 1S 5860 m
Cable drum 1S 5860 m
Augustin - Racos
km 221+833 km nou
AX CLADIRE CALATORI ST. RACOS
KM 230+833.75

LEGENDA
LEGEND

CTM ◇	Camereta cu mufa de jonctiune Handhole with junction box
CTM ◇	Camereta cu rezerva Handhole with cable reserve
CT ▢	Camera de tragere cu mufa de jonctiune Manhole with junction box
CT ▢	Camera de tragere cu rezerva Manhole with cable reserve
CTS ☐	Camera de tragere speciala pentru subtraversare Special manhhole for undercrossing
— FO —	Cablu cu fibre optice subteran Underground optical fiber cable
—▭—	Teava PVC Φ 110 mm / canal metalic PVC pipe Φ 110 mm / metallic chanel

NOTA:

Inchiderea inelului de fibra optica pentru racordarea celor 3 BTS, se va face pe cablul cu fibre optice aerian existent

NOTE:

The fiber optical ring on which will be connected the 3 BTS will be closed on existing aerial fiber optic cable.

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		
Întocmit Elaborated	Proiectant Designer	Gabriela Trifan	02.2012	Trifan

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

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

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

Denumire desen / Drawing Title :

Interval - AUGUSTIN - RACOS - Section
CABLU CU FIBRE OPTICE DE RACORD LA BTS
Plan de situatie
FIBER OPTICAL CABLE FOR CONNECTIG BTS
Layout Plan

Codificare / Codification System	Scara / Scale 1:1000	LOT / LOT	Nr. / No 01 / 01

E A 5 1 0 1 E 1 0 L 7 S E 0 3 9 7 0 0 1 1