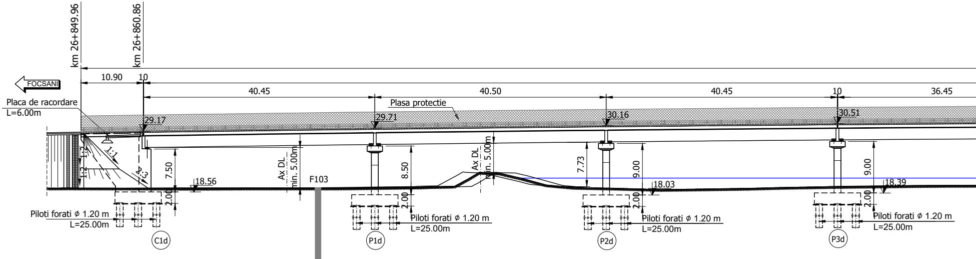
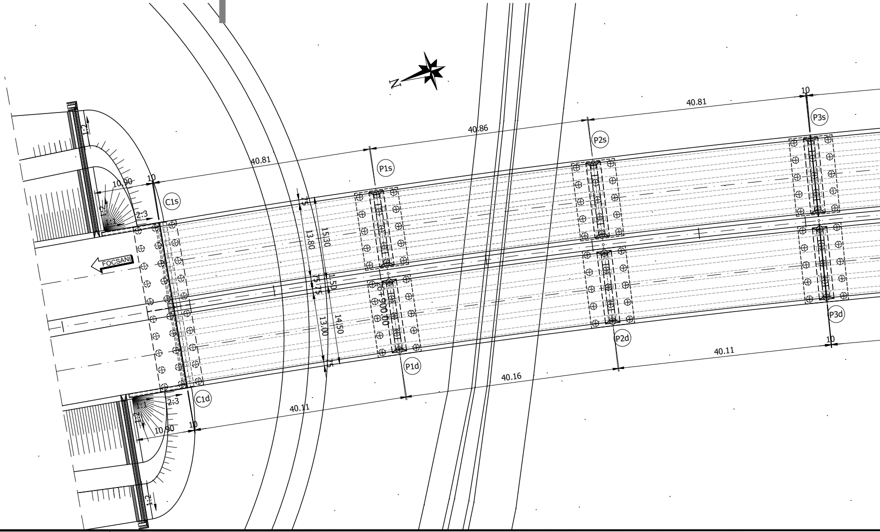
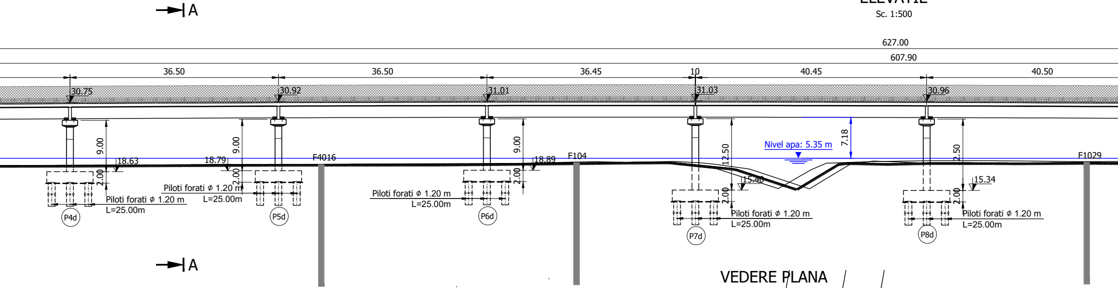

km 26+849.96
km 26+860.86
FOCSANI
10.90
10
40.45
40.50
40.45
10
36.45
Placa de racordare
L=6.00m
Plasa protectie
29.17
29.71
30.16
30.51
1:2
1:2
1:1
2:3
7.50
18.56
2.00
Ax DL
min. 5.00m
F103
8.50
2.00
Ax DL
min. 5.00m
7.73
9.00
18.03
2.00
9.00
18.39
2.00
Piloti forati ϕ 1.20 m
L=25.00m
Piloti forati ϕ 1.20 m
L=25.00m
Piloti forati ϕ 1.20 m
L=25.00m
Piloti forati ϕ 1.20 m
L=25.00m
C1d
P1d
P2d
P3d


N
FOCSANI
1:2
10.90
10
C1s
2:3
1:2
40.81
40.86
40.81
10
P1s
P2s
P3s
75
15.30
13.80
1.50
75
75
13.00
14.50
75
26+900.00
P3d
P2d
P1d
10
40.11
40.16
C1d
2:3
1:2
10.90
10
40.11
1:2

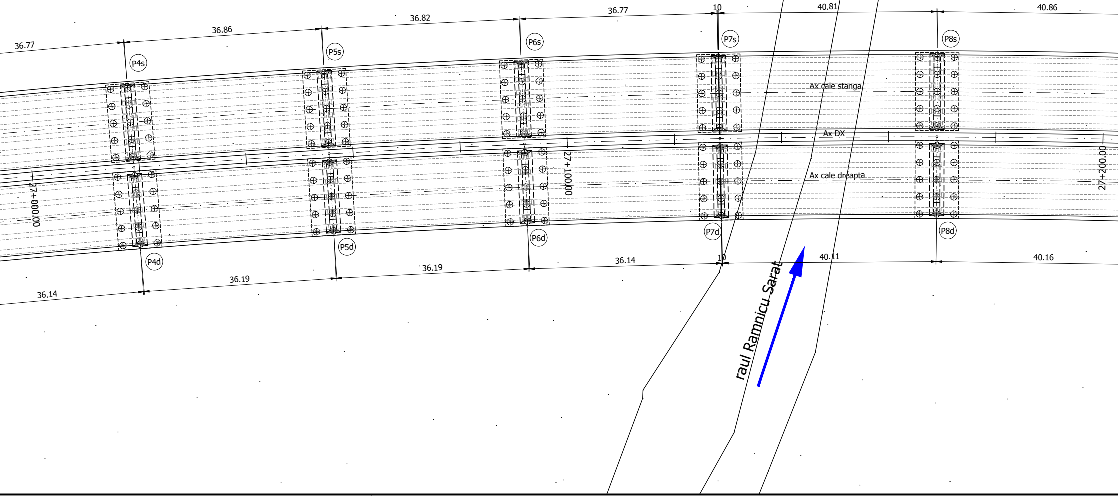
ELEVATIE

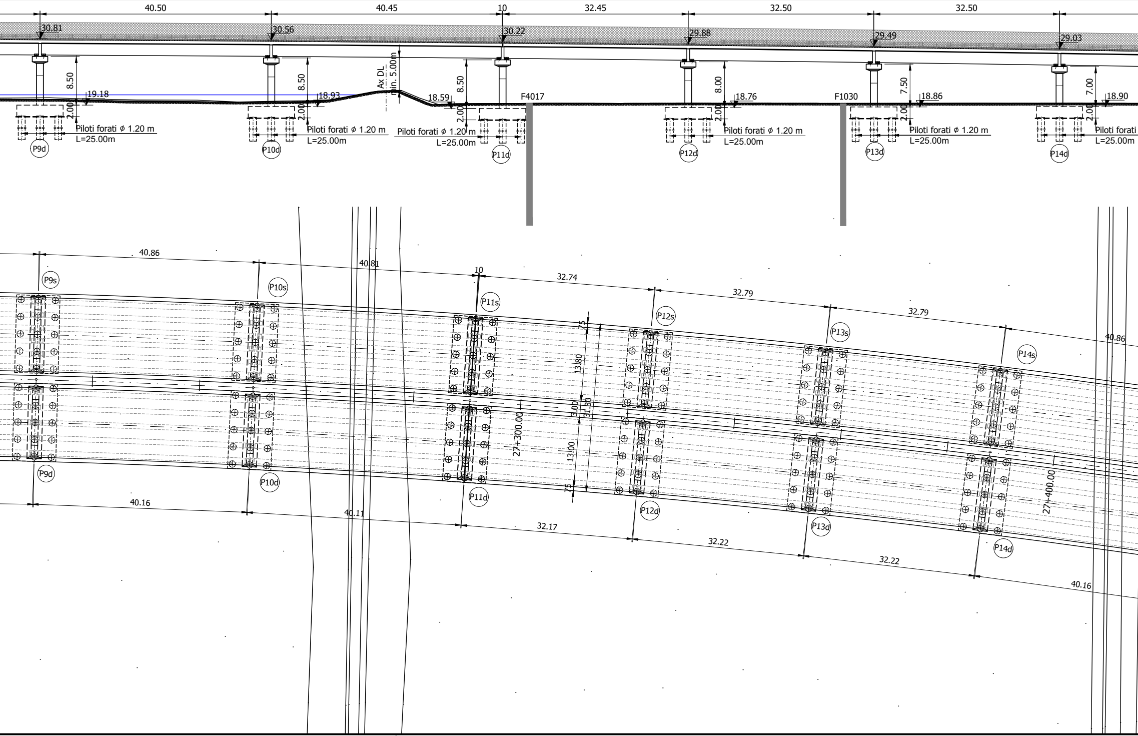
Sc. 1:500

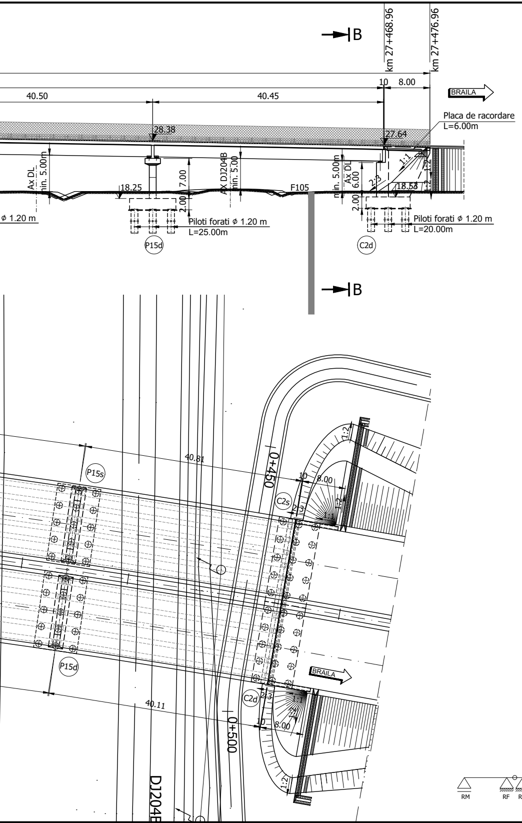

A
A
627.00
607.90
36.50
36.50
36.45
10
40.45
40.50
30.75
30.92
31.01
31.03
30.96
9.00
9.00
9.00
12.50
2.50
7.18
Nivel apa: 5.35 m
18.63
18.79
18.89
15.40
15.34
2.00
2.00
2.00
2.00
2.00
F4016
F104
F1029
Piloti forati ⌀ 1.20 m
L=25.00m
Piloti forati ⌀ 1.20 m
L=25.00m
Piloti forati ⌀ 1.20 m
L=25.00m
Piloti forati ⌀ 1.20 m
L=25.00m
Piloti forati ⌀ 1.20 m
L=25.00m
P4d
P5d
P6d
P7d
P8d

VEDERE PLANA

Sc. 1:500


36.77
36.86
36.82
36.77
10
40.81
40.86
P4s
P5s
P6s
P7s
P8s
Ax cale stanga
Ax DX
Ax cale dreapta
27+000.00
27+100.00
27+200.00
P4d
P5d
P6d
P7d
P8d
36.14
36.19
36.19
36.14
10
40.11
40.16
raul Ramnicu Sarat


40.50
40.45
10
32.45
32.50
32.50
30.81
30.56
30.22
29.88
29.49
29.03
8.50
8.50
8.50
8.00
7.50
7.00
19.18
18.93
18.59
18.76
18.86
18.90
Ax DL
min. 5.00m
2.00
Piloti forati ϕ 1.20 m
L=25.00m
F4017
F1030
P9d
P10d
P11d
P12d
P13d
P14d
40.86
40.81
10
32.74
32.79
32.79
40.86
P9s
P10s
P11s
P12s
P13s
P14s
75
13.80
3.00
31.30
13.00
75
27+300.00
27+400.00
40.16
40.11
32.17
32.22
32.22
40.16

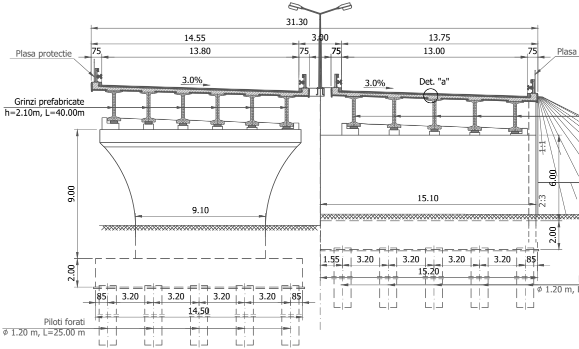

B
km 27+468.96
km 27+476.96
10
8.00
40.50
40.45
BRAILA
Placa de racordare
L=6.00m
28.38
27.64
Ax DL
min. 5.00m
7.00
Ax DJ204B
min. 5.00
min. 5.00m
Ax DL
6.00
1:1
1:2
2:3
18.25
2.00
F105
18.58
2.00
ϕ 1.20 m
Piloti forati ϕ 1.20 m
L=25.00m
Piloti forati ϕ 1.20 m
L=20.00m
P15d
C2d
B
40.81
P15s
0+450
10
8.00
1:2
C2s
2:3
1:2
P15d
BRAILA
40.11
C2d
2:3
10
8.00
0+500
2:1
1:2
DJ204B

SECTIUNE TRANSVERSALA A-A

Sc. 1:200

SECTIUNE TRANSVERSALA B-B

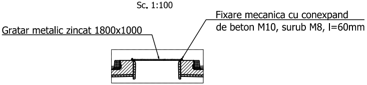
Sc. 1:200


31.30
14.55
3.00
13.75
Plasa protectie
75
13.80
75
75
13.00
75
Plasa
3.0%
3.0%
Det. "a"
Grinzi prefabricate
h=2.10m, L=40.00m
9.00
9.10
2.00
85
3.20
3.20
3.20
3.20
85
14.50
Piloti forati
ϕ 1.20 m, L=25.00 m
15.10
1:1
6.00
2:3
2.00
1.55
3.20
3.20
3.20
3.20
85
15.20
ϕ 1.20 m,

NOTA:
Intre structurile juxtapuse se vor monta plase de protectie orizontale, conform detaliului alaturat, pe toata lungimea suprastructurii (golului dintre tabliere)
Protectia anticoroziva a gratarului metalic se va face prin galvanizare profunda executata la cald

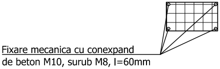
SECTIUNE TRANSVERSALA GRATAR PROTECTIE

Sc. 1:100

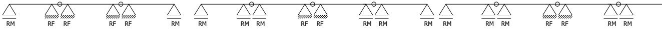

Fixare mecanica cu conexpand
de beton M10, surub M8, l=60mm
Gratar metalic zincat 1800x1000

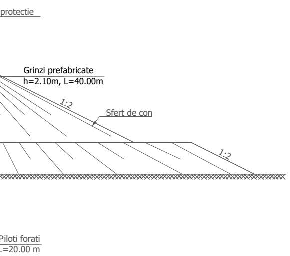
DETALIU FIXARE GRATARE DE PROTECTIE

Sc. 1:100

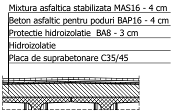

Fixare mecanica cu conexpand
de beton M10, surub M8, l=60mm

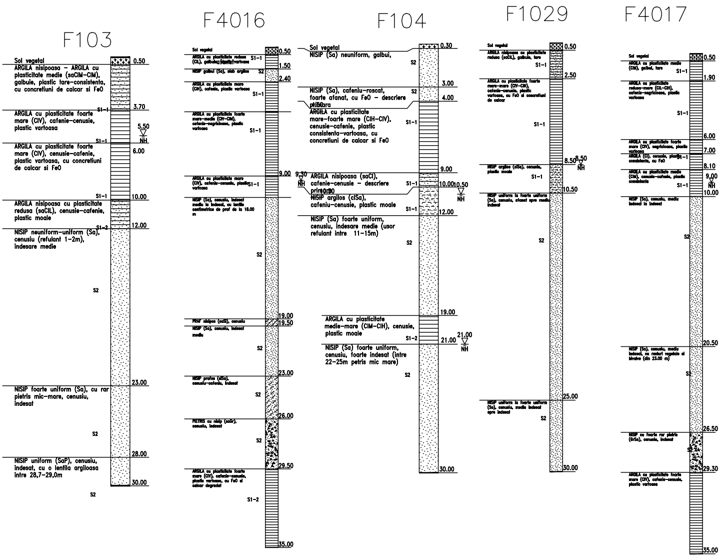
SCHEMA STATICA - GRINZI SIMPLU REZEMATE CONTINU


RM
RF RF
RF RF
RM
RM
RM RM
RF RF
RM RM
RM RM
RM RM
RF RF
RM RM


protectie
Grinzi prefabricate
h=2.10m, L=40.00m
1:2
Sfert de con
1:2
Piloti forati
L=20.00 m

DETALIU "a"


Mixtura asfaltica stabilizata MAS16 - 4 cm
Beton asfaltic pentru poduri BAP16 - 4 cm
Protectie hidroizolatie BA8 - 3 cm
Hidroizolatie
Placa de suprabetonare C35/45


F103
Sol vegetal
0.50
ARGILA nisipoasa – ARGILA cu plasticitate medie (saCIM–CIM), galbuie, plastic tare–consistenta, cu concretiuni de calcar si FeO
S1–1
3.70
ARGILA cu plasticitate foarte mare (CIV), cafenie–cenusie, plastic vartoasa
S1–1
5.50
NH
ARGILA cu plasticitate foarte mare (CIV), cenusie–cafenie, plastic vartoasa, cu concretiuni de calcar si FeO
6.00
S1–1
10.00
ARGILA nisipoasa cu plasticitate redusa (saCIL), cenusie–cafenie, plastic moale
S1–2
12.00
NISIP neuniform–uniform (Sa), cenusiu (refulant 1–2m), indesare medie
S2
23.00
NISIP foarte uniform (Sa), cu rar pietris mic–mare, cenusiu, indesat
S2
28.00
NISIP uniform (SaP), cenusiu, indesat, cu o lentila argiloasa intre 28,7–29,0m
30.00
S2
F4016
Sol vegetal
0.50
ARGILA cu plasticitate redusa (CIL), galbuie, plastic vartoasa
S1–1
1.50
NISIP galbui (Sa), slab argilos
S2
2.40
ARGILA cu plasticitate mare (CIH), cafenie, plastic vartoasa
S1–1
ARGILA cu plasticitate foarte mare–medie (CIV–CIM), cafenie–negricioasa, plastic vartoasa
S1–1
9.00
ARGILA cu plasticitate mare (CIV), cafeniu–cenusiu, plastic vartoasa
S1–1
NISIP (Sa), cenusiu, indesat mediu la indesat, cu lentile centimetrice de praf de la 18.00 m
S2
19.00
PRAF nisipos (saSi), cenusiu
19.50
NISIP (Sa), cenusiu, indesat mediu
S2
23.00
NISIP prafos (siSa), cenusiu–cafeniu, indesat
S2
26.00
PIETRIS cu nisip (saGr), cenusiu, indesat
S2
29.50
ARGILA cu plasticitate foarte mare (CIV), cafeniu–cenusie, plastic vartoasa, cu FeO si calcar degradat
S1–2
35.00
F104
Sol vegetal
0.30
NISIP (Sa) neuniform, galbui,
S2
3.00
NISIP (Sa), cafeniu–roscat, foarte afanat, cu FeO – descriere prima
S2
4.00
4.50
ARGILA cu plasticitate mare–foarte mare (CIH–CIV), cenusie–cafenie, plastic consistenta–vartoasa, cu concretiuni de calcar si FeO
S1–1
9.00
9.30
NH
ARGILA nisipoasa (saCI), cafenie–cenusie – descriere prima
S1–1
10.00
10.50
NH
NISIP argilos (clSa), cafeniu–cenusie, plastic moale
S1–1
12.00
NISIP (Sa) foarte uniform, cenusiu, indesare medie (usor refulant intre 11–15m)
S2
19.00
ARGILA cu plasticitate medie–mare (CIM–CIH), cenusie, plastic moale
S1–2
21.00
21.00
NH
NISIP (Sa) foarte uniform, cenusiu, foarte indesat (intre 22–25m pietris mic mare)
S2
30.00
F1029
Sol vegetal
0.50
ARGILA nisipoasa cu plasticitate redusa (saCIL), galbuie, tare
S1–1
2.50
ARGILA cu plasticitate foarte mare–mare (CIV–CIH), cafenie–cenusie, plastic vartoasa, cu FeO si concretiuni de calcar
S1–1
8.50
8.50
NH
NISIP argilos (clSa), cenusiu, plastic moale
S1–1
10.50
NISIP uniform la foarte uniform (Sa), cenusiu, afanat spre mediu indesat
S2
25.00
NISIP uniform la foarte uniform (Sa), cenusiu, mediu indesat spre indesat
S2
30.00
F4017
Sol vegetal
0.50
ARGILA cu plasticitate medie (CIM), galbui, tare
S1–1
1.90
ARGILA cu plasticitate redusa–mare (CIL–CIH), cafenie–negricioasa, plastic vartoasa
S1–1
6.00
ARGILA cu plasticitate foarte mare (CIV), negricioasa, plastic vartoasa
7.00
ARGILA (CI), cenusie, plastic consistenta, cu FeO
S1–1
8.10
ARGILA cu plasticitate medie (CIM), cenusie–cafenie, plastic consistenta
S1–1
9.00
NH
10.00
NISIP (Sa), cenusiu, mediu indesat la indesat
S2
20.50
NISIP (Sa), cenusiu, mediu indesat, cu resturi vegetale si bivalve (din 23.00 m)
S2
26.50
NISIP cu foarte rar pietris (GrSa), cenusiu, indesat
S2
29.30
ARGILA cu plasticitate foarte mare (CIV), cafenie–cenusie, plastic vartoasa
35.00

MATERIALE

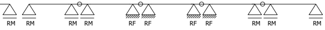
1. Beton cf. CP 012/2007

Element constructiv	Beton	Clasa de expunere	Tasare	A/C	Ciment	Armatura
Beton egalizare	C8/10	XF1	-	-	-	-
Pereu	C25/30	XC4;XF2	S4	0.500	300	-
Piloti	C20/25	XC2	S4	0.60	375	B500SC/BST500SC
Radier	C30/37	XC4;XF2;XD1	S3	0.55	300	B500SC/BST500SC
Elevatii	C30/37	XC4;XF2;XD1	S3	0.55	300	B500SC/BST500SC
	C35/45	XC4;XF2;XD3	S3	0.50	320	B500SC/BST500SC
Placi racordare / Grinda rezemare	C20/25	XC2	S4	0.60	260	B500SC/BST500SC
Grinda prefabricata post-tensionata	C45/55	XC4;XD1;XF2	S4	0.40	320	B500SC/BST500SC
Grinda prefabricata pretensionata	C50/60	XC4;XD1;XF2	S4	0.40	320	B500SC/BST500SC
Placa suprabetonare / Borduri	C35/45	XC4;XF4;XD3	S3	0.50	340	B500SC/BST500SC
Predale prefabricate	C35/45	XC4;XD1;XF4	S4	0.50	340	B500SC/BST500SC
Prefabricat grinda parapet	C35/45	XC4;XD3;XF4	S4	0.45	340	B500SC/BST500SC

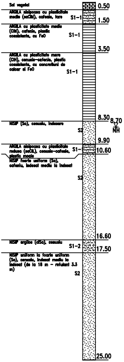
2. Otel

Armatura moale	B500SC/BST500SC
Armatura pretensionata	TBP Y1860S7
Otel tablier metalic	S355NL / S355J2+N, echivalent OL52EP

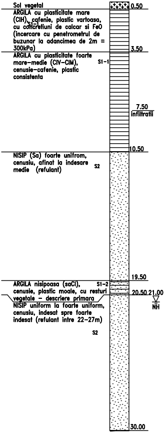
UIZATE LA NIVELUL PLACII


RM
RM
RM
RM
RF
RF
RF
RF
RM
RM
RM

F1030


Sol vegetal
0.50
ARGILA nisipoasa cu plasticitate medie (saClM), cafenie, tare
S1-1
1.50
ARGILA cu plasticitate medie (ClM), cafenie, plastic consistenta, cu FeO
S1-1
3.50
ARGILA cu plasticitate mare (ClH), cenusie-cafenie, plastic consistenta, cu concretiuni de calcar si FeO
S1-1
8.30
8.70
NH
NISIP (Sa), cenusiu, indesare
S2
9.90
ARGILA nisipoasa cu plasticitate redusa (saClL), cenusie-cafenie, plastic moale
S1-
10.60
NISIP foarte uniform (Sa), cafeniu, indesat mediu la indesat
S2
16.60
NISIP argilos (clSa), cenusiu
S1-2
17.50
NISIP uniform la foarte uniform (Sa), cenusiu, indesat mediu la indesat (de la 18 m - refulant 3.3 m)
S2
25.00

F105


Sol vegetal
0.50
ARGILA cu plasticitate mare (ClH), cafenie, plastic vartoasa, cu concretiuni de calcar si FeO (incercare cu penetrometrul de buzunar la adancimea de 2m = 300kPa)
S1-1
3.50
ARGILA cu plasticitate foarte mare-medie (ClV-ClM), cenusie-cafenie, plastic consistenta
S1-1
7.50
infiltratii
10.50
NISIP (Sa) foarte unifrom, cenusiu, afinat la indesare medie (refulant)
S2
19.50
ARGILA nisipoasa (saCl), cenusie, plastic moale, cu resturi vegetale - descriere primara
S1-2
20.50
21.00
NH
NISIP uniform la foarte uniform, cenusiu, indesat spre foarte indesat (refulant intre 22-27m)
S2
30.00

Convoi de calcul: LM1, LM2, conf. SR EN 1991-2/2005
Categoria de importanta: "B"
Exigente de verificare: A4, B2, D
Parametri seismici: a_g=0.40g, Tc=1.00s conf. cod P100/1-2013, SR EN 1998-2/2006

PROIECT CO-FINANTAT DE UNIUNEA EUROPEANA PRIN PROGRAMUL OPERATIONAL INFRASTRUCTURA MARE

UNIUNEA EUROPEANA

GUVERNUL ROMANIEI

Instrumente Structurale 2014-2020

POIM

AMPLASAMENT

GALATI
BRAILA

BENEFICIAR

MINISTERUL TRANSPORTURILOR SI INFRASTRUCTURII

COMPANIA NAȚIONALĂ DE ADMINISTRARE A INFRASTRUCTURII RUTIERE

CNAIR

PROIECTANT GENERAL

acciona

SUBPROIECTANT

INVESTITIA

ELABORARE STUDIU DE FEZABILITATE ȘI PROIECT TEHNIC DE EXECUȚIE PENTRU OBIECTIVUL DRUM EXPRES FOCSANI - BRĂILA

FAZA DE PROIECTARE

Studiu de Fezabilitate

Coordonator de proiect	Proiectat
ing. José Carlos RUBIO MATILLA	ing. VELEA Cornel
	Verificat ing. Dragos - Florin VULPESCU

Proiect nr:
92/37074/19.06.2020

Scara: 1:500 / 1:200

Data: IANUARIE 2024

Pod pe DX peste raul Ramnicu Sarat, DJ204B si DJ204D relocat km 26+850
DISPOZITIE GENERALA

Cod: FB-SF-L1-STR-ST20-DG-001 Rev. 03