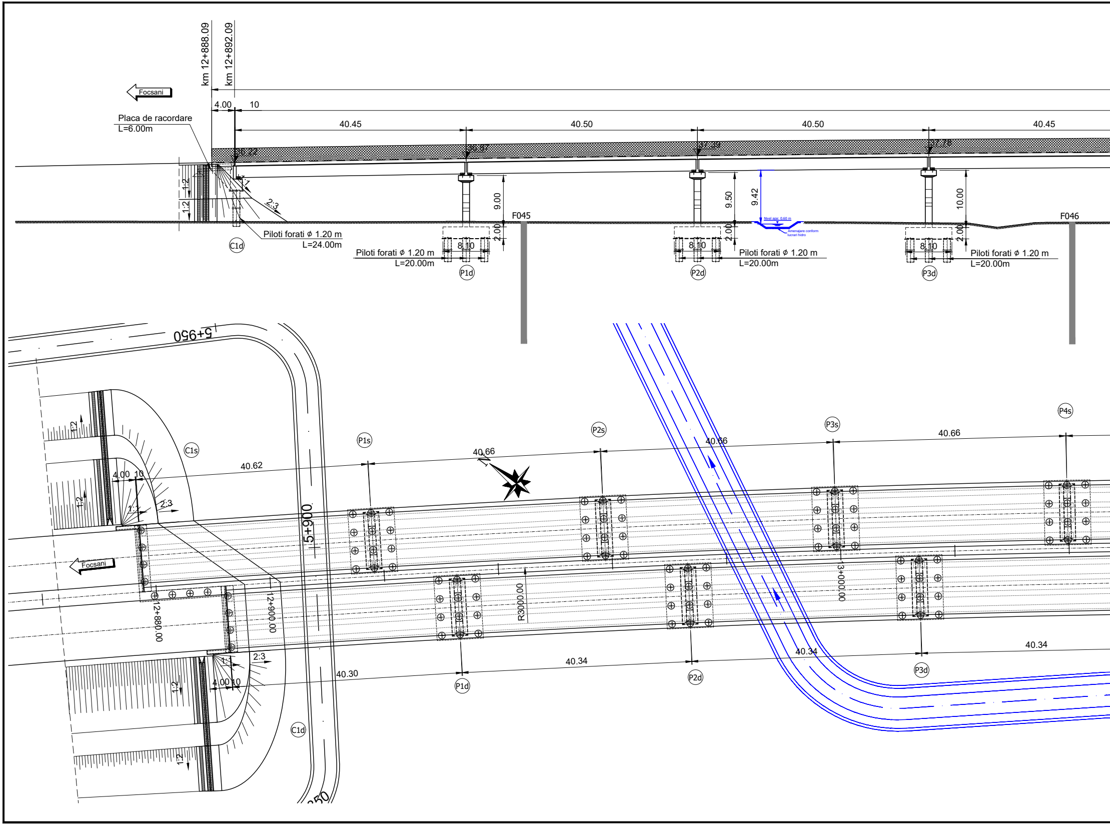
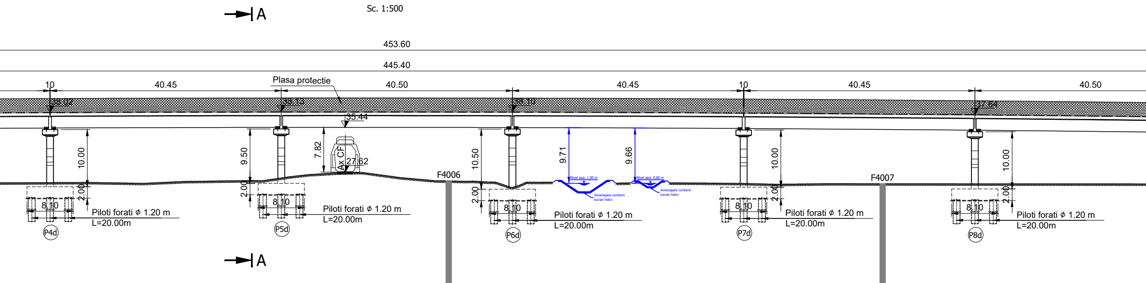

km 12+888.09
km 12+892.09
Focsani
4.00
10
Placa de racordare
L=6.00m
40.45
40.50
40.50
40.45
36.22
36.87
37.39
37.78
1:2
1:2
2:3
1:1
9.00
9.50
9.42
10.00
2.00
2.00
2.00
Nivel apa: 0.60 m
Amenajare conform lucrari hidro
F045
F046
Piloti forati ϕ 1.20 m
L=24.00m
Piloti forati ϕ 1.20 m
L=20.00m
Piloti forati ϕ 1.20 m
L=20.00m
Piloti forati ϕ 1.20 m
L=20.00m
8.10
8.10
8.10
C1d
P1d
P2d
P3d
5+950
5+900
250
C1s
P1s
P2s
P3s
P4s
N
40.62
40.66
40.66
40.66
4.00
10
1:2
1:2
1:1
2:3
Focsani
12+880.00
12+900.00
R3000.00
13+000.00
40.30
40.34
40.34
40.34
4.00
10
1:1
2:3
1:2
1:2
P1d
P2d
P3d
C1d

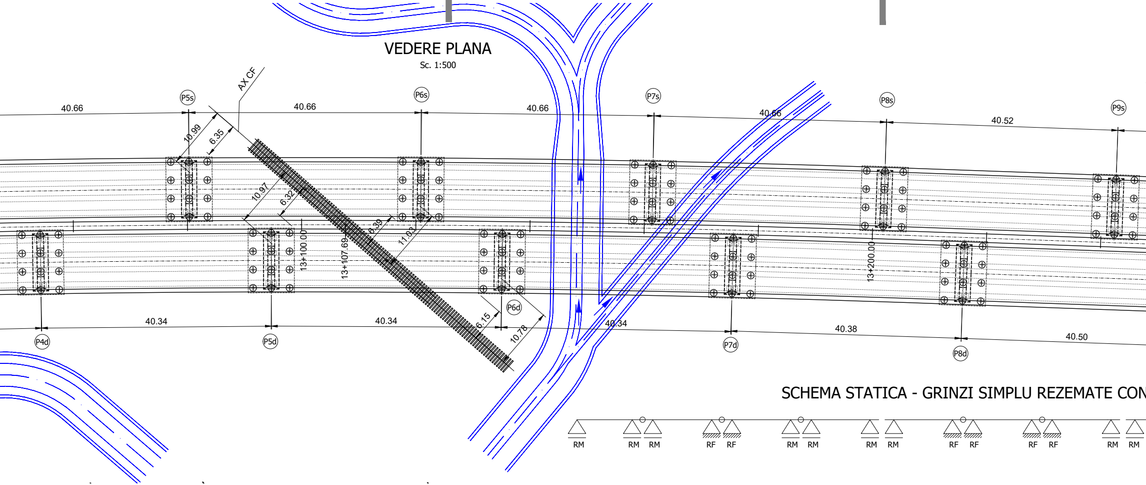
ELEVATIE

Sc. 1:500

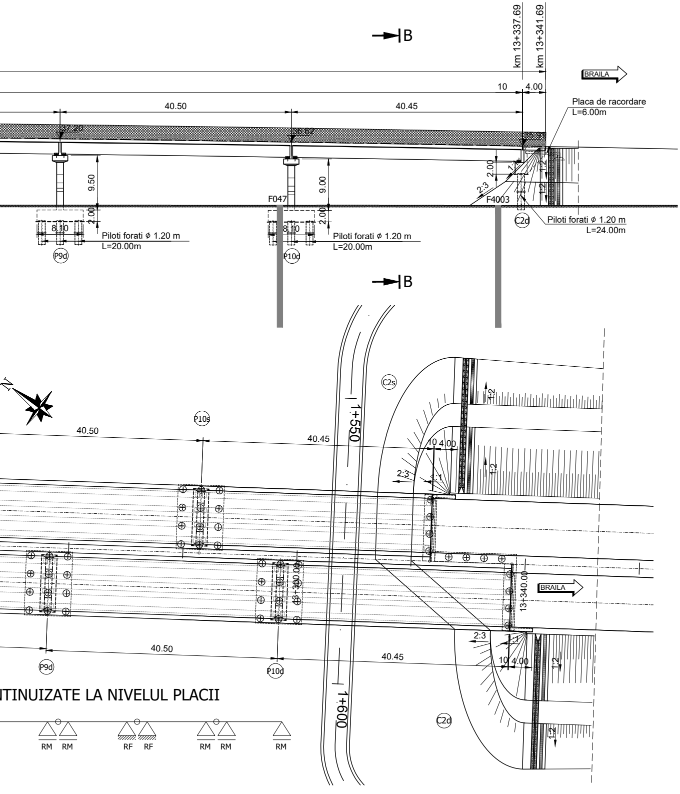

A
453.60
445.40
10
40.45
Plasa protectie
40.50
40.45
10
40.45
40.50
38.02
38.13
35.44
38.10
37.64
10.00
9.50
7.82
Ax CF
27.62
10.50
9.71
9.66
10.00
10.00
2.00
8.10
Piloti forati ϕ 1.20 m
L=20.00m
P4d
P5d
P6d
P7d
P8d
F4006
F4007
Nivel apa: 1.50 m
Nivel apa: 0.60 m
Amenajare conform lucrari hidro
A

VEDERE PLANA

Sc. 1:500


AX CF
P5s
P6s
P7s
P8s
P9s
40.66
40.66
40.66
40.66
40.52
10.99
6.35
10.97
6.32
6.39
11.03
13+100.00
13+107.69
13+200.00
6.15
10.78
P6d
40.34
40.34
40.34
40.38
40.50
P4d
P5d
P7d
P8d
RM
RF

SCHEMA STATICA - GRINZI SIMPLU REZEMATE CON

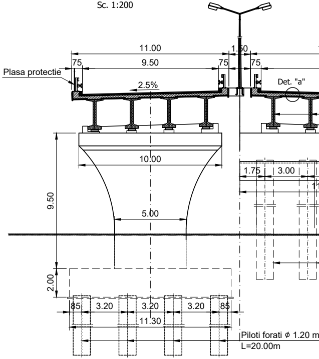

B
B
km 13+337.69
km 13+341.69
BRAILA
10
4.00
40.50
40.45
Placa de racordare
L=6.00m
37.20
36.62
35.97
9.50
9.00
2.00
2.00
2.00
1:1
1:2
1:2
2:3
F047
F4003
8.10
8.10
Piloti forati ϕ 1.20 m
L=20.00m
Piloti forati ϕ 1.20 m
L=20.00m
Piloti forati ϕ 1.20 m
L=24.00m
P9d
P10d
C2d
N
C2s
P10s
40.50
40.45
1+550
10
4.00
2:3
1:1
1:2
1:2
13+300.00
13+340.00
BRAILA
2:3
1:1
10
4.00
1:2
1:2
40.50
40.45
P9d
P10d
1+600
C2d
RM
RM
RF
RF
RM
RM
RM

...TINUIZATE LA NIVELUL PLACII

SECTIUNE TRANSVERSALA A-A

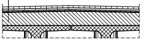
Sc. 1:200

SECTIUNE


11.00
1.50
75
9.50
75
75
Plasa protectie
2.5%
Det. "a"
10.00
1.75
3.00
9.50
5.00
2.00
85
3.20
3.20
3.20
85
11.30
Piloti forati ϕ 1.20 m
L=20.00m

DETALIU "a"

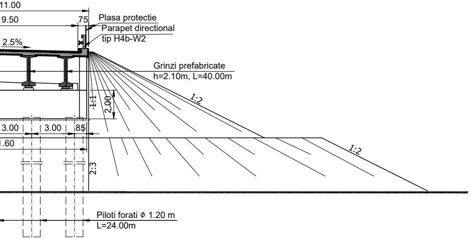
Mixtura asfaltica stabilizata MAS16 - 4 cm
Beton asfaltic pentru poduri BAP16 - 4 cm
Protectie hidroizolatie BA8 - 3 cm
Hidroizolatie
Placa de suprabetonare C35/45

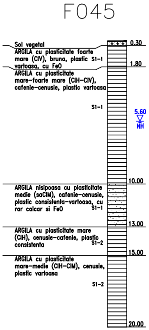


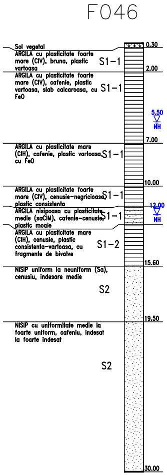
Convoi de calcul: LM1, LM2, conf. SR EN 1991-2/2005
Categoria de importanta: "B"
Exigente de verificare: A4, B2, D
Parametri seismici: a_g=0.35g, Tc=1.00s conf. cod P100/1-2013, SR EN 1998-2/2006

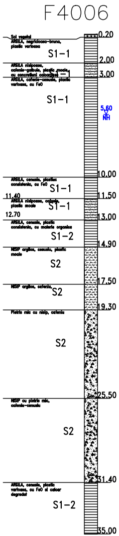
TRANSVERSALA B-B

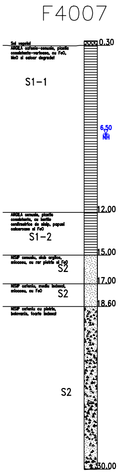
Sc. 1:200

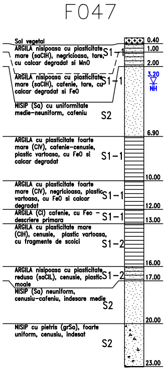

11.00
9.50
75
Plasa protectie
Parapet directional
tip H4b-W2
2.5%
Grinzi prefabricate
h=2.10m, L=40.00m
1:2
1:1
2.00
3.00
3.00
85
1.60
1:2
2:3
Piloti forati Φ 1.20 m
L=24.00m


F045
Sol vegetal
0.30
ARGILA cu plasticitate foarte mare (CIV), bruna, plastic vartoasa, cu FeO
S1-1
1.80
ARGILA cu plasticitate mare-foarte mare (CIH-CIV), cafenie-cenusie, plastic vartoasa
S1-1
5.60
NH
10.00
ARGILA nisipoasa cu plasticitate medie (saCIM), cafenie-cenusie, plastic consistenta-vartoasa, cu rar calcar si FeO
S1-1
13.00
ARGILA cu plasticitate mare (CIH), cenusie-cafenie, plastic consistenta
S1-2
15.00
ARGILA cu plasticitate mare-medie (CIH-CIM), cenusie, plastic vartoasa
S1-2
20.00


F046
Sol vegetal
0.30
ARGILA cu plasticitate foarte mare (CIV), bruna, plastic vartoasa
S1-1
2.00
ARGILA cu plasticitate foarte mare (CIV), cafenie, plastic vartoasa, slab calcaroasa, cu FeO
S1-1
5.50
NH
7.00
ARGILA cu plasticitate mare (CIH), cafenie, plastic vartoasa, cu FeO
S1-1
10.00
ARGILA cu plasticitate foarte mare (CIV), cenusie-negricioasa, plastic consistenta
S1-1
12.00
NH
ARGILA nisipoasa cu plasticitate medie (saCIM), cafenie-cenusie, plastic moale
S1-1
ARGILA cu plasticitate mare (CIH), cenusie, plastic consistenta-vartoasa, cu fragmente de bivalve
S1-2
15.60
NISIP uniform la neuniform (Sa), cenusiu, indesare medie
S2
19.50
NISIP cu uniformitate medie la foarte uniform, cafeniu, indesat la foarte indesat
S2
30.00


F4006
Sol vegetal
0.20
ARGILA, negricioasa-bruna, plastic vartoasa
S1-1
2.00
ARGILA nisipoasa, cafenie-galbuie, plastic moale, cu concretiuni calcaroase
S1-1
3.00
ARGILA, cafenie-cenusie, plastic vartoasa, cu FeO
S1-1
5.60
NH
10.00
ARGILA, cenusie, plastic consistenta, cu FeO
S1-1
11.40
11.50
ARGILA nisipoasa, cafenie, plastic moale
S1-1
12.70
13.00
ARGILA, cenusie, plastic consistenta, cu materie organica
S1-2
14.90
NISIP argilos, cenusiu, plastic moale
S2
17.50
NISIP argilos, cafeniu,
S2
19.30
Pietris mic cu nisip, cafeniu
S2
25.50
NISIP cu pietris mic, cafeniu-cenusiu
S2
31.40
ARGILA, cenusie, plastic vartoasa, cu FeO si calcar degradat
S1-2
35.00

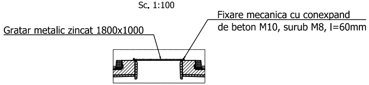

F4007
Sol vegetal
0.30
ARGILA cafenie-cenusie, plastic consistenta-vartoasa, cu FeO, MnO si calcar degradat
S1-1
6.50
NH
12.00
ARGILA cenusie, plastic consistenta, cu lentile centimetrice de nisip, papusi calcaroase si FeO
S1-2
15.00
NISIP cenusiu, slab argilos, micaceu, cu rar pietris si FeO
S2
17.00
NISIP cafeniu, mediu indesat, micaceu, cu FeO
S2
18.60
NISIP cafeniu cu pietris, bolovanis, foarte indesat
S2
30.00


F047
Sol vegetal
0.40
ARGILA nisipoasa cu plasticitate mare (saCIH), negricioasa, tare, cu calcar degradat si MnO
S1-1
1.00
2.00
ARGILA nisipoasa cu plasticitate mare (saCIH), cafenie, tare, cu calcar degradat si FeO
S1-1
3.20
NH
NISIP (Sa) cu uniformitate medie-neuniform, cafeniu
S2
6.90
ARGILA cu plasticitate foarte mare (CIV), cafenie-cenusie, plastic vartoasa, cu FeO si calcar degradat
S1-1
10.00
ARGILA cu plasticitate foarte mare (CIV), negricioasa, plastic vartoasa, cu FeO si calcar degradat
S1-1
12.00
ARGILA (CI) cafenie, cu Feo - descriere primara
S1-1
13.00
ARGILA cu plasticitate mare (CIH), cenusie, plastic vartoasa, cu fragmente de scoici
S1-2
16.00
ARGILA nisipoasa cu plasticitate redusa (saCIL), cenusie, plastic moale
S1-2
17.00
NISIP (Sa) neuniform, cenusiu-cafeniu, indesare medie
S2
20.00
NISIP cu pietris (grSa), foarte uniform, cenusiu, indesat
S2
23.00

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

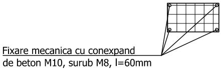
SECTIUNE TRANSVERSALA GRATAR PROTECTIE

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

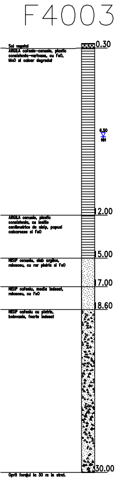
MATERIALE

1. Beton cf. CP 012/2007

Element constructiv	Beton	Clasa de expuner
Beton egalizare	C8/10	XF1
Pereu	C25/30	XC4;XF2
Piloti	C20/25	XC2
Radier	C30/37	XC4;XF2;XD1
Elevatii	C30/37	XC4;XF2;XD1
	C35/45	XC4;XF2;XD3
Placi racordare / Grinda rezemare	C20/25	XC2
Grinda prefabricata post-tensionata	C45/55	XC4;XD1;XF2
Grinda prefabricata pretensionata	C50/60	XC4;XD1;XF2
Placa suprabetonare / Borduri	C35/45	XC4;XF4;XD3
Predale prefabricate	C35/45	XC4;XD1;XF4
Prefabricat grinda parapet	C35/45	XC4;XD3;XF4

2. Otel

Armatura moale	
Armatura pretensionata	
Otel tablier metalic	S355NL /


F4003
Sol vegetal
ARGILA cafenie-cenusie, plastic consistenta-vartoasa, cu FeO, MnO si calcar degradat
0.30
6.50
NH
12.00
ARGILA cenusie, plastic consistenta, cu lentile centimetrice de nisip, papusi calcaroase si FeO
15.00
NISIP cenusiu, slab argilos, micaceu, cu rar pietris si FeO
17.00
NISIP cafeniu, mediu indesat, micaceu, cu FeO
18.60
NISIP cafeniu cu pietris, bolovanis, foarte indesat
30.00
Oprit forajul la 30 m in strat.

re	Tasare	A/C	Ciment	Armatura
	-	-	-	-
	S4	0.500	300	-
	S4	0.60	375	B500SC/BST500SC
	S3	0.55	300	B500SC/BST500SC
	S3	0.55	300	B500SC/BST500SC
	S3	0.50	320	B500SC/BST500SC
	S4	0.60	260	B500SC/BST500SC
	S4	0.40	320	B500SC/BST500SC
	S4	0.40	320	B500SC/BST500SC
	S3	0.50	340	B500SC/BST500SC
	S4	0.50	340	B500SC/BST500SC
	S4	0.45	340	B500SC/BST500SC

B500SC/BST500SC
TBP Y1860S7
S355J2+N, echivalent OL52EP

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

UNIUNEA EUROPEANA

GUVERNUL ROMANIEI

Instrumente Structurale 2014-2020

POIM

AMPLASAMENT

BENEFICIAR

MINISTERUL TRANSPORTURILOR SI INFRASTRUCTURII

COMPANIA NAȚIONALĂ DE ADMINISTRARE A INFRASTRUCTURII RUTIERE

CNAIR

PROIECTANT GENERAL

acciona

SUBPROIECTANT

INVESTITIA

ELABORARE STUDIU DE FEZABILITATE SI 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

Pasaj pe DX peste CF
km 12+888 (km CF 60+900)
DISPOZITIE GENERALA

Cod: FB-SF-L1-STR-ST9-DG-001 | Rev. 03