Setting up of the EU HOUSE

EUINFONET/SER/01/2023

Main Design for supply with works

SETTING UP OF THE EU HOUSE

04 MAIN DESIGN OF LOW VOLTAGE SYSTEMS

Belgrade, 08.12.2023

A project implemented by:

eptisa

4.2. TECHNICAL DOCUMENTATION

TECHNICAL DESCRIPTION OF LOW VOLTAGE SYSTEM

The subject of the project is the investment maintenance and furnishing of space in the building and gallery "Progres", 8-10 Zmaj Jovina Street, Belgrade

DESCRIPTION OF EXISTING STATE

The electric power supply of the subject building was carried out by an underground 1kV cable from the distribution substation 10/0.4kV to the cable connection cabinets (KPO) installed on the facade.

The measurement of consumed electrical energy in the object is carried out by a complete low-voltage measuring group with built-in measuring current transformers 800/5 A/A, which is installed in the substation.

In the part of the building, that is the subject of adaptation, lighting and general and technological socket cables are biried into the wall under the plaster and have been the same since the construction of the building. The rooms are equipped with fluorescent lamps.

Fire alarm system is performed using an addressable fire control panel and corresponding optical fire detectors.

NEWLY DESIGNED LOW VOLTAGE SYSTEM

On the basis of the submitted conceptual design, the existing installed and simultaneous power in the building will be increased by 100 kW of installed, or 80 kW of simultaneous power.

Based on the insight into the bills for the consumed energy, the approved one-time power of the facility is 470 kW. The simultaneously engaged power during the last 15 months did not exceed 240 kW. Based on the above, there is a possibility to add a new 100 kW of simultaneous power for the needs of heating and cooling the space, that is the subject of adaptation.

Since the general consumption in the rooms of the basement, ground floor and first floor does not increase, the existing power supply of the distribution cabinets on the ground floor and first floor is retained. The same applies to the power cables of priority consumers from the diesel electric generator.

From RO-5N/1 and RO-5E/1, consumers on the first floor are fed, and from RO-9N/1 and RO-9E/1, consumers on the ground floor and basement are fed.

The newly planned outdoor units of the VRF system on the terace of the 1st floor, with 100 kW of installed power, are powered from the newly designed cabinet RO-VRF, located nearby VRF units. The RO-VRF is powered from the LV board in the distribution substation with using the spare fuses. New PP00 4x120mm² + 1x70mm² cable is planned to be layed from TR substation to the RO-VRF. At the request of the owner of the space in question, it is planned to install control meters in order to measure

consumption in the part of the building that is subject to adaptation.

The cables that are used to power consumers in the building are of the N2XH type and are laid in the wall under the plaster or in the suspended ceiling.

The installation of lighting in the rooms is carried out by 1.5mm² cables with the required number of cores.

Proposed LED lamps are in accordance with the previously performed calculation, and meet the basic requirements in terms of energy efficiency, electromagnetic compatibility and degree of mechanical protection. The height of the light switches in the rooms is 1m from the floor (if possible, place them at the height of the door handle and on the side of the handle).

In the basement is planned remote lighting control via a touch screen on the stage, i.e. in the A/V cabin. By programming, multiple scenes are possible during events that take place in the business space.

Emergency lamps with 3W LED sources are installed on the evacuation routes and they are automatically switched on in the event of a power failure and have a 3-hour autonomy. They are not subject to reconstruction of internal installations.

The installation of sockets and outlets for powering technological consumers is carried out with a 2.5mm² cables, with the required number of cores. The installation height of the sockets in the rooms is 0.3 m from the floor.

DESIGN PROFESISONAL

IN RESPONSIBLE CHARGE

Radomir Ćalasan, M.Sc.E.E.

4.4 DRAWINGS

List of drawings

Name of drawing	Drawing label	Drawing scale
Basement plan - lighting	02	1:50
Basement plan - power	03	1:50
Ground floor plan - lighting	04	1:50
Ground floor plan - power	05	1:50
First floor plan - lighting	06	1:50
First floor plan - power	07	1:50
First floor plan - VRF systems	08	1:50
Block diagram of low voltage system	09	
RT-9H/1 single line diagram	10	
RT-9E/1 single line diagram	11	
RT-5H/1 single line diagram	12	
RT-5E/1 single line diagram	13	
RO-VRF single line diagram	14	

Basement plan level -3.60

No.	Premises	Net area m2	finishing-floor	finishing-walls	finishing - ceiling
01	HALL	49.64	existing par□uet floor	dispersion paint	dispersion paint
02	MULTIHALL	163.10	existing par□uet floor	dispersion paint	dispersion paint
03	INTER: ICA: IN	14.45	new textile floor	dispersion paint	dispersion paint
04	AU: IO VI: EO	24.00	existing par□uet floor	dispersion paint	dispersion paint
05	STORA: E 1	38.00	existing floor	dispersion paint	dispersion paint
06	STORA: E 2	4.00	existing floor	dispersion paint	dispersion paint
07	KITCHEN	14.17	existing par□uet floor	dispersion paint	dispersion paint
08	TOILET 1	6.00	new ceramic tiles	ceramic tiles	dispersion paint
09	STAIRCASE	6.50	new ceramic tiles	dispersion paint	dispersion paint
10	TOILET 2	1.40	new ceramic tiles	ceramic tiles	dispersion paint
11	TOILET 3	1.40	new ceramic tiles	ceramic tiles	dispersion paint
TOTAL NET AREA		323.19 m2			

Gypsum Board 1x1.25cm — existing ceiling
tsz
Acoustic gypsum board perforated □2 x1.25cm
tsz
Waterproof Gypsum Board 2 x1.25cm
tsz

LIGHTING

S1	Line superstructure light 113/5/7cm, PD White 30 W,3000K (8 pcs.)
S2	Circular built-in lighting 15/21W IP20/54 (10 pcs.)
S3	Circular built-in lighting 6W IP54 (3 pcs.)
RL1	white spot, 3 phase system light 3000K, 24° 8 pcs + track 3m white 1 pc
RL2	zoom white spot 20W 3000K, 15-60° pcs 44 + track 50m white
RL3	led track 86W 3000K, white 3000x35x35mm (5 pcs)

AMG strukture d.o.o.
Preduzeće za projektovanje, inženjering i nadzor
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CLIENT: Delegation of the European Union to the Republic of Serbia Ul. Milentija Popovica 40, Novi Beograd	DESIGN TYPE: MAIN DESIGN
TITLE: Investment maintenance and furnishing of space in the building and gallery "Progres" 8-10 Zmaj Jovina Street, Belgrade	RESPONSIBLE DESIGNER: Radomir Ćalasan M.Sc.E.E. Licence No.350 3807 03
DESIGN TYPE 4 - LOW VOLTAGE SYSTEM DESIGN	DESIGNER ASSISTANTE: Zorica Zlatković M.Sc.E.E. Licence No.350 G589 08

DRAWING NAME:	Scale	Drawing No.	Date	Page No
BASEMENT PLAN - LIGHTING	1:50	124/23-A	12. 2023.	02

LEGEND:

- 1p power socket L+N+PE
- 1p power double socket L+N+PE
- 1p power socket L+N+PE, IP45
- 1p direct feeder
- 1p power socket L+N
- modular set 7M
- 24 M floor set box 4M, 24M
- LED strip driver
- 1 way switch, 1M
- blanking plate, 1M
- SOS taster, 2M

reinforced concrete
concrete
wall-Ytong building block
termo insulation
hydro isolation
eggshell foam
existing wall

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DESIGN TYPE 4 - LOW VOLTAGE SYSTEM DESIGN	DESIGNER ASSISTANTE: Zorica Zlatković M.Sc.E.E. Licence No.350 Q589 08

DRAWING NAME:	Scale	Drawing No.	Date	Page No
BASEMENT PLAN - POWER	1:50	124/23-A	12. 2023.	03

Ground Floor - ceiling and lighting plan

LIGHTING

S1	Round LED light, type Arena 154W 2700K (1 pcs)
S2	Recessed luminaire, type Downlight V200 Versenkte Abdeckung or simmilar (3 pcs)
S8	External superstructure light (3 pcs)
S4	LED strip I 870cm, 4000K, 9,6W/m 1120lm/mm
S5	Line superstructure light 113/5/7cm, PD White 30 W,3000K (8 pcs.)
S6	Lighting built in, 135x355mm, white, with lentils, 40 LED 35W 3000K 2878lm(12 pcs.)
S7	Spotlight Tak 31.1 W LED 3000K 12 pcs + trail Track Tracks Standard 3000m white (3 pcs.)

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TITLE: Investment maintenance and furnishing of space in the building and gallery "Progres" 8-10 Zmaj Jovina Street, Belgrade	RESPONSIBLE DESIGNER: Radomir Čalasan M.Sc.E.E. Licence No.350 3807 03
DESIGN TYPE: 4 - LOW VOLTAGE SYSTEM DESIGN	DESIGNER ASSISTANTE: Zorica Zlatković M.Sc.E.E. Licence No.350 G589 08

DRAWING NAME:	Scale	Drawing No.	Date	Page No.
GROUND FLOOR PLAN - LIGHTING	1:50	124/23-A	12. 2023.	04

FURNITURE S: ECIFICATION		
N:	FURNITURE	N:
R1	[illegible]	3
R3	[illegible]	3
R:	[illegible]	[illegible]
S1	[illegible]	3
F	[illegible]	3
SS	[illegible]	3
[illegible]	[illegible]	1
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	1

Ground Floor solution 1

LEGEND:

- 1p power socket L+N+PE
- 1p power double socket L+N+PE
- 1p power socket L+N+PE, IP45
- 1p direct feeder
- 1p power socket L+N
- modular set 7M
- 12 M floor set box, 12M
- LED strip driver
- 1 way switch, 1M
- blanking plate, 1M
- SOS taster, 2M

No.	Premises	Net area m2	finishing-floor	finishing-walls	finishing - ceiling
01	ALERI	232.05	existing floor - stone	stone/disp.paint	dispersion paint
02	STAIRCASE	40.45	existing floor - stone	stone/disp.paint	dispersion paint
TOTAL NET AREA		272.50 m2			

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CLIENT:
Delegation of the European Union to the Republic of Serbia
Ul. Milentija Popovica 40, Novi Beograd

DESIGN TYPE:
MAIN DESIGN

TITLE:
Investment maintenance and furnishing of space in the building and gallery "Progres" 8-10 Zmaj Jovina Street, Belgrade

RESPONSIBLE DESIGNER:
Radomir Ćalasan BSc El.
Licence No.350 3807 03

DESIGN TYPE
4 - LOW VOLTAGE SYSTEM DESIGN

DESIGNER ASSISTANTE:
Zorica Zlatković BSc El.
Licence No.350 G589 08

DRAWING NAME:	Scale	Drawing No.	Date	Page No
GROUND FLOOR PLAN - POWER	1:50	124/23-A	12. 2023.	05

I Floor - ceiling and lighting plan

No.	Premises	Net area m2	finishing-floor	finishing-walls	finishing - ceiling
01	ENTRANCE	19.40	new textile floor	dispersion paint	dispersion paint
02	CORRI: OR	15.96	new textile floor	dispersion paint	dispersion paint
03	CONF: ROOM	77.50	new textile floor	dispersion paint	dispersion paint
04	OFFICE 1	31.80	new textile floor	dispersion paint	dispersion paint
05	OFFICE 2	24.60	new textile floor	dispersion paint	dispersion paint
06	O: EN S: ACE	195.10	new textile floor	dispersion paint	dispersion paint
07	STORA: E 1	4.26	new textile floor	dispersion paint	dispersion paint
08	STORA: E 2	4.60	new textile floor	dispersion paint	dispersion paint
09	STORA: E 3	6.43	new textile floor	dispersion paint	dispersion paint
10	TRCER ROOM	232.05	existing floor - stone	dispersion paint	dispersion paint
02	STAIRCASE	40.62	existing floor - stone	dispersion paint	dispersion paint
TOTAL NET AREA		692.50 m2			

LIGHTING

S9	Line superstructure, hang, light 113/5/7cm, PD White 60 W, 4000K (20 pcs.)
S10	Line superstructure, hang, light 225/5/7cm, PD White 60 W, 4000K (10 pcs.)
S2	Circular built-in lighting 15/21W IP20/54 (12 pcs.)
S11	superstructur panele light White 18 W, 4000K (4 pcs.)

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TITLE: Investment maintenance and furnishing of space in the building and gallery "Progres" 8-10 Zmaj Jovina Street, Belgrade	RESPONSIBLE DESIGNER: Radomir Čalasan M.Sc.E.E. Licence No.350 3807 03
DESIGN TYPE 4 - LOW VOLTAGE SYSTEM DESIGN	DESIGNER ASSISTANTE: Zorica Zlatković M.Sc.E.E. Licence No.350 G589 08

DRAWING NAME:	Scale	Drawing No.	Date	Page No
FIRST FLOOR PLAN - LIGHTING	1:50	124/23-A	12. 2023.	09

I Floor

FURNITURE SPECIFICATION		
No.	FURNITURE	No.
R1	[illegible]	22
R2	[illegible]	1
R3	[illegible]	[illegible]
R4	[illegible]	2
S1	[illegible]	22
[illegible]	[illegible]	[illegible]
S2	[illegible]	2
S3	[illegible]	2
F	[illegible]	22
O1	[illegible]	[illegible]
SS	[illegible]	[illegible]
[illegible]	[illegible]	1
[illegible]	[illegible]	3

LEGEND:

- 1p power socket L+N+PE
- 1p power double socket L+N+PE
- 1p power socket L+N+PE, IP45
- 1p direct feeder
- 1p power socket L+N
- modular set 7M
- 12M floor set box, 12M
- LED strip driver
- 1 way switch, 1M
- blanking plate, 1M
- SOS taster, 2M

No.	Premises	Net area m2	finishing-floor	finishing-walls	finishing - ceiling
01	ENTRANCE	19.40	new textile floor	dispersion paint	dispersion paint
02	CORRI: OR	15.96	new textile floor	dispersion paint	dispersion paint
03	CONF: ROOM	77.50	new textile floor	dispersion paint	dispersion paint
04	OFFICE 1	31.80	new textile floor	dispersion paint	dispersion paint
05	OFFICE 2	24.60	new textile floor	dispersion paint	dispersion paint
06	O: EN S: ACE	195.10	new textile floor	dispersion paint	dispersion paint
07	STORA: E 1	4.26	new textile floor	dispersion paint	dispersion paint
08	STORA: E 2	4.60	new textile floor	dispersion paint	dispersion paint
09	STORA: E 3	Net area m2	new textile floor	dispersion paint	dispersion paint
10	TOILET ROOM	232.06	existing floor - stone	dispersion paint	dispersion paint
12	STAIRCASE	40.62	existing floor - stone	dispersion paint	dispersion paint
TOTAL NET AREA		398.58 m2			

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CLIENT:
Delegation of the European Union to the Republic of Serbia
Ul. Milentija Popovica 40, Novi Beograd

DESIGN TYPE:
MAIN DESIGN

TITLE:
Investment maintenance and furnishing of space in the building and gallery "Progres" 8-10 Zmaj Jovina Street, Belgrade

RESPONSIBLE DESIGNER:
Radomir Ćalasan M.Sc.E.E.
Licence No.350 3807 03

DESIGN TYPE
4 - LOW VOLTAGE SYSTEM DESIGN

DESIGNER ASSISTANTE:
Zorica Zlatković M.Sc.E.E.
Licence No.350 G589 08

DRAWING NAME:	Scale	Drawing No.	Date	Page No
FIRST FLOOR PLAN - POWER	1:50	124/23-A	12. 2023.	07

VRF SYSTEMS

AMG strukture d.o.o.
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DESIGN TYPE 4 - LOW VOLTAGE SYSTEM DESIGN	DESIGNER ASSISTANTE: Zorica Zlatković M.Sc.E.E. Licence No.350 G589 08

DRAWING NAME:	Scale	Drawing No.	Date	Page No.
FIRST FLOOR PLAN - VRF SYSTEMS	1:50	124/23-A	12. 2023.	08

AMG strukture d.o.o.
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DESIGN TYPE 4 - LOW VOLTAGE SYSTEM DESIGN	DESIGNER ASSISTANTE: Zorica Zlatković M.Sc.E.E. Licence No.350 G589 08

DRAWING NAME:	Scale	Drawing No.	Date	Page No.
BLOCK DIAGRAM OF LOW VOLTAGE SYSTEM	---	124/23-A	12. 2023.	09

consumer		from 9H			sockets	sockets	advertising	sockets	sockets	sockets	emergency	reserve	reserve	reserve
L1 [W]	6100				500				500		100	---		
L2 [W]	6500					500							---	
L3 [W]	6100						100	500		500				---
L1,2,3 [W]	1000													
Pi [W]	19 700													
kj	0.5													
Pj [W]	9850													
Ij [A]	14.98													

ground floor

Designer	Client	Design No	Design proff.in resp. charge	Date
AMG strukture d.o.o. Preduzeće za projektovanje, inženjering i nadzor Ul. Marka Tajčevića br. 12a, Beograd	Delegacija Evropske unije u Republici Srbiji Ul. Milentija Popovića 40, Novi Beograd	124/23-A	Radomir Ćalasan, M.Sc.E.E.	12. 2023.
	Title Investment maintenance and furnishing of space in the building and gallery "Progres", 8-10 Zmaj Jovina Street, Belgrade	Drawing name RT-9H/1 single line diagram		Drawing No 10

consumer	sockets	displays	sockets	sockets	sockets	sockets	sockets	displays	projectors	AV cabin	AV cabin	sockets	sockets	refrig.case
L1 W	500			500			500			500				
L2 W		500			500			500			500			2000
L3 W			500			500			500			500	500	
L1,2,3 W														

basement

Designer	Client		Design No	Design proff.in resp. charge	Date
AMG strukture d.o.o. Preduzeće za projektovanje, inženjering i nadzor Ul. Marka Tajčevića br. 12a, Beograd	Delegacija Evropske unije u Republici Srbiji Ul. Milentija Popovića 40, Novi Beograd		124/23-A	Radomir Ćalasan, M.Sc.E.E.	12. 2023.
	Title Investment maintenance and furnishing of space in the building and gallery "Progres", 8-10 Zmaj Jovina Street, Belgrade		Drawing name RT-9H/1 single line diagram		Drawing No 10

consumer	coff.mach.	water heater	fenomat	water heater	fan coil	platform	reserve	reserve	reserve	reserve	reserve	reserve
L1 W		2000				1000	---			---		
L2 W				2000				---			---	
L3 W			2000		500				---			---
L1,2,3 W	1000											

basement

Designer	Client		Design No	Design proff.in resp. charge	Date
AMG strukture d.o.o. Preduzeće za projektovanje, inženjering i nadzor Ul. Marka Tajčevića br. 12a, Beograd	Delegacija Evropske unije u Republici Srbiji Ul. Milentija Popovića 40, Novi Beograd		124/23-A	Radomir Ćalasan, M.Sc.E.E.	12. 2023.
	Title Investment maintenance and furnishing of space in the building and gallery "Progres", 8-10 Zmaj Jovina Street, Belgrade		Drawing name RT-9H/1 single line diagram		Drawing No 10

consumer		from 9E		light	light	door	light	light	rack	rack	reserve	reserve	reserve	reserve	reserve
L1 [W]	1300			300						1000	---			---	
L2 [W]	1300				300		500	500				---			---
L3 [W]	1300					300			1000				---		
L1,2,3 [W]	---														

Pi [W]	3900
kj	1
Pj [W]	3900
Ij [A]	5.93

ground floor | basement

Designer	Client		Design No	Design proff.in resp. charge	Date
AMG strukture d.o.o. Preduzeće za projektovanje, inženjering i nadzor Ul. Marka Tajčevića br. 12a, Beograd	Delegacija Evropske unije u Republici Srbiji Ul. Milentija Popovića 40, Novi Beograd		124/23-A	Radomir Ćalasan, M.Sc.E.E.	12. 2023.
	Title Investment maintenance and furnishing of space in the building and gallery "Progres", 8-10 Zmaj Jovina Street, Belgrade		Drawing name RT-9E/1 single line diagram		Drawing No 11

consumer		from subst.		sockets	sockets	sockets	sockets	sockets	sockets	sockets	sockets	sockets	sockets	sockets	fan coil
L1 W	2600									500					500
L2 W	2500			500	500			500			500		500		
L3 W	3000					500	500		500			500		500	
L1,2,3 W	5000														
Pi W	13 100														
kj	0.5														
Pj W	6550														
Ij A	9.96														

1st floor

Designer	Client	Design No	Design proff.in resp. charge	Date
AMG strukture d.o.o. Preduzeće za projektovanje, inženjering i nadzor Ul. Marka Tajčevića br. 12a, Beograd	Delegacija Evropske unije u Republici Srbiji Ul. Milentija Popovića 40, Novi Beograd	124/23-A	Radomir Ćalasan, M.Sc.E.E.	12. 2023.
	Title Investment maintenance and furnishing of space in the building and gallery "Progres", 8-10 Zmaj Jovina Street, Belgrade	Drawing name RT-5H/1 single line diagram		Drawing No 12

consumer	sockets	hot plate	coff.mach.	display	fan coil	fan coil	duct heater	reserve	reserve	reserve	reserve	reserve	reserve
L1 W		2000		100				---			---		
L2 W					500				---			---	
L3 W	500					500				---			---
L1,2,3 W			1000				4000						

1st floor

Designer	Client		Design No	Design proff.in resp. charge	Date
AMG strukture d.o.o. Preduzeće za projektovanje, inženjering i nadzor Ul. Marka Tajčevića br. 12a, Beograd	Delegacija Evropske unije u Republici Srbiji Ul. Milentija Popovića 40, Novi Beograd		124/23-A	Radomir Ćalasan, M.Sc.E.E.	12. 2023.
	Title Investment maintenance and furnishing of space in the building and gallery "Progres", 8-10 Zmaj Jovina Street, Belgrade		Drawing name RT-5H/1 single line diagram		Drawing No 12

consumer		from 2E		light	light	rack	reserve	reserve	reserve	reserve	reserve	reserve
L1 W	500			500			---			---		
L2 W	500				500			---			---	
L3 W	1000					1000			---			---
L1,2,3 W	---											

Pi W	2000
kj	1
Pj W	2000
Ij A	3.04

1st floor

Designer AMG strukture d.o.o. Preduzeće za projektovanje, inženjering i nadzor Ul. Marka Tajčevića br. 12a, Beograd	Client Delegacija Evropske unije u Republici Srbiji Ul. Milentija Popovića 40, Novi Beograd	Design No 124/23-A	**Design proff.in resp. charge** Radomir Ćalasan, M.Sc.E.E.	Date 12. 2023.
	Title Investment maintenance and furnishing of space in the building and gallery "Progres", 8-10 Zmaj Jovina Street, Belgrade	Drawing name RT-5E/1 single line diagram		Drawing No 13

Pi (kW)	102
kj	0.98
Pj (kW)	100
Ij (A)	180.63

Designer AMG strukture d.o.o. Preduzeće za projektovanje, inženjering i nadzor Ul. Marka Tajčevića br. 12a, Beograd	Client Delegacija Evropske unije u Republici Srbiji Ul. Milentija Popovića 40, Novi Beograd	Design No 124/23-A	**Design proff.in resp. charge** Radomir Ćalasan, M.Sc.E.E.	Date 12. 2023.
	Title Investment maintenance and furnishing of space in the building and gallery "Progres", 8-10 Zmaj Jovina Street, Belgrade	Drawing name RO-VRF single line diagram		Drawing No 14