

**masa**

Milestone to your success.

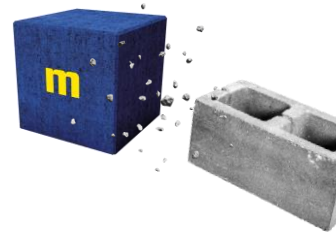


Installation Guide

---

# MB-Connect-Box

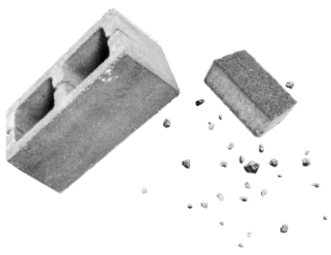
---

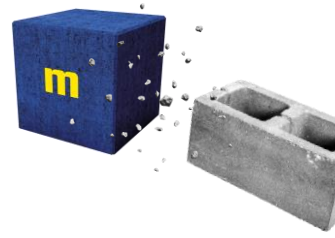


# Contents

---

|   |    |
|---|----|
| MB-Connect-Box.....   | 1  |
| 1. General Information.....                                     | 3  |
| 1.1 Required components.....                                    | 3  |
| 1.2 General connection diagram.....                             | 3  |
| 1.3 Launch.....   | 3  |
| 1.4 Network Overview.....                                       | 4  |
| 1.5 Description of the MB Connect Box LED status indicator..... | 5  |
| 2. Option with PC cabinet.....                                  | 5  |
| 3. Until approx. 2015.....                                      | 10 |
| 4. From around 2015.....  | 14 |
| 5. From around 2020.....  | 18 |





---

# 1. General Information

---

## 1.1 Required components

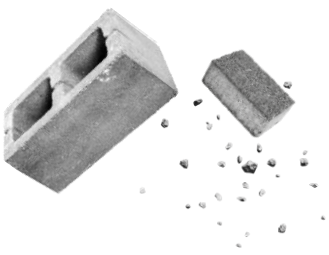
- MB Connect Box (replaces the Redbox)
- Existing LAN and WLAN cables (taken over from the Redbox)
- Power supply for the MB Connect Box

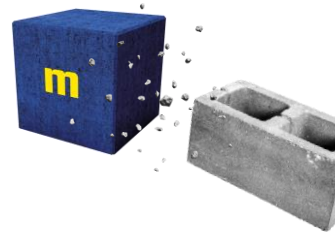
## 1.2 General connection diagram

1. Disconnect the LAN and WAN cables from the Redbox.
2. Plug these cables into the corresponding ports on the MB Connect Box:
3. LAN port · Connection to the internal network/switch
4. WAN port · Connection to the internet (via firewall)
5. Connect the MB Connect Box to the power supply.

## 1.3 Launch

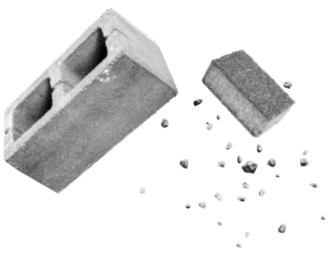
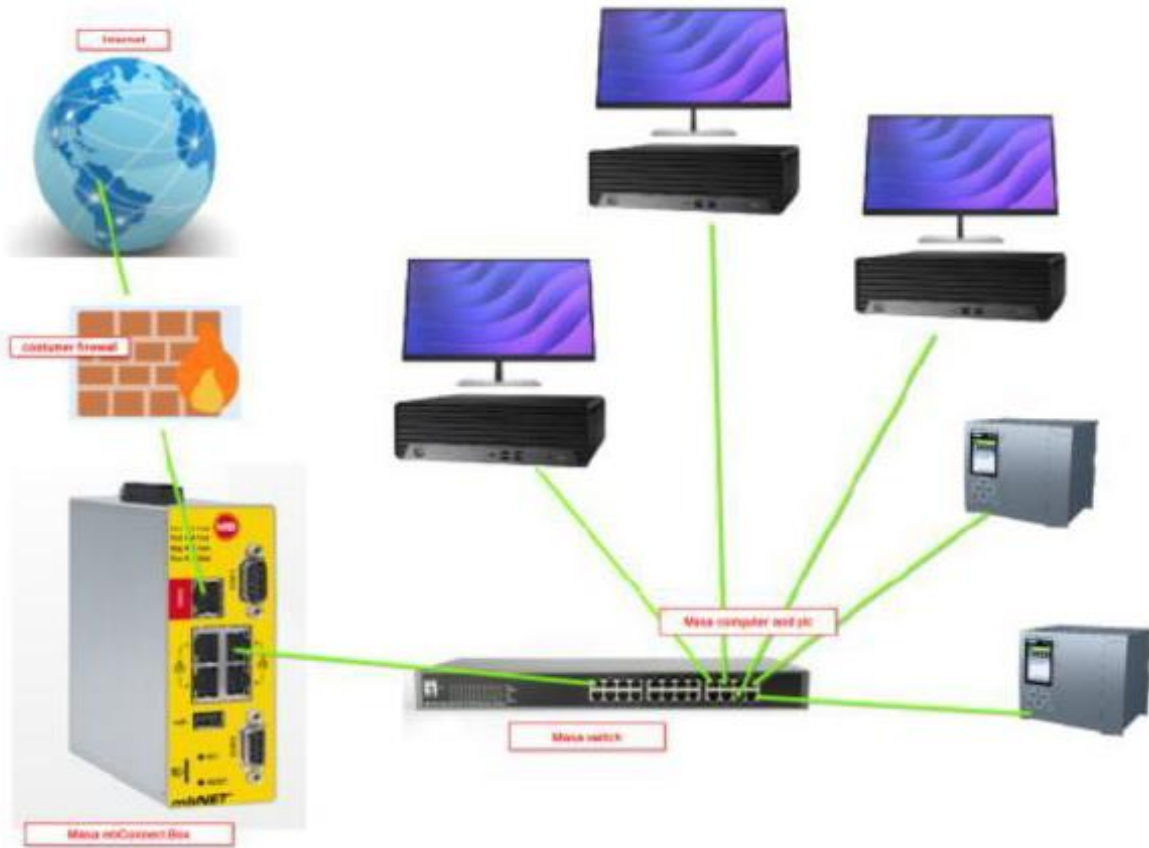
- Plug-and-play: The connection should be established automatically after connection.
- Check: Please call the hotline (02632 92 92 88) to test the connection.
- Firewall settings: The following ports must be enabled:
  - TCP 80 (HTTP)
  - TCP 443 (HTTPS)
  - TCP 1194 (OpenVPN)

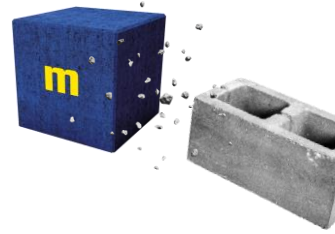




## 1.4 Network Overview

Assembly Instructions





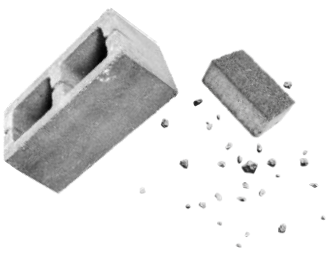
## 1.5 Description of the MB Connect Box LED status indicator

|             |        |         |  |
|-------------|--------|---------|--|
| <b>Rdy</b>  | Orange | Off     | Waiting for bootloader or signature successfully verified.   |
|             |        | On      | Checks signature, loads kernel   |
|             | Green  | Off     | Waiting for kernel   |
|             |        | Flashes | System loading rootFs  |
|             |        | On      | Boot process complete, the device is ready for use.  |
| <b>Con</b>  | Orange | Off     | No VPN connection started  |
|             |        | On      | Internet connection established + VPN connection starting  |
|             |        | Flashes | Flashing frequency 1.5 Hz: VPN connection established  |
|             | Green  | Off     | No internet connection   |
|             |        | Flashes | Blinking frequency 3 Hz: Internet connection is being established  |
|             |        | On      | Internet connection established.   |
| <b>Pwr</b>  | Green  | Off     | The power supply to the router is interrupted/the router is not connected to the power supply.   |
|             |        | On      | The power supply is connected to the terminal strip and switched on.   |
| <b>Stat</b> | Red    | Flashes | Memory error   |
|             |        | On      | Error found<br>The error type/status display can be viewed on the mbNET web GUI under <b>System &gt; Info &gt; "Last error message."</b> |
|             | Green  | On      | In conjunction with the mbCONNECT24 portal: connected to device.   |

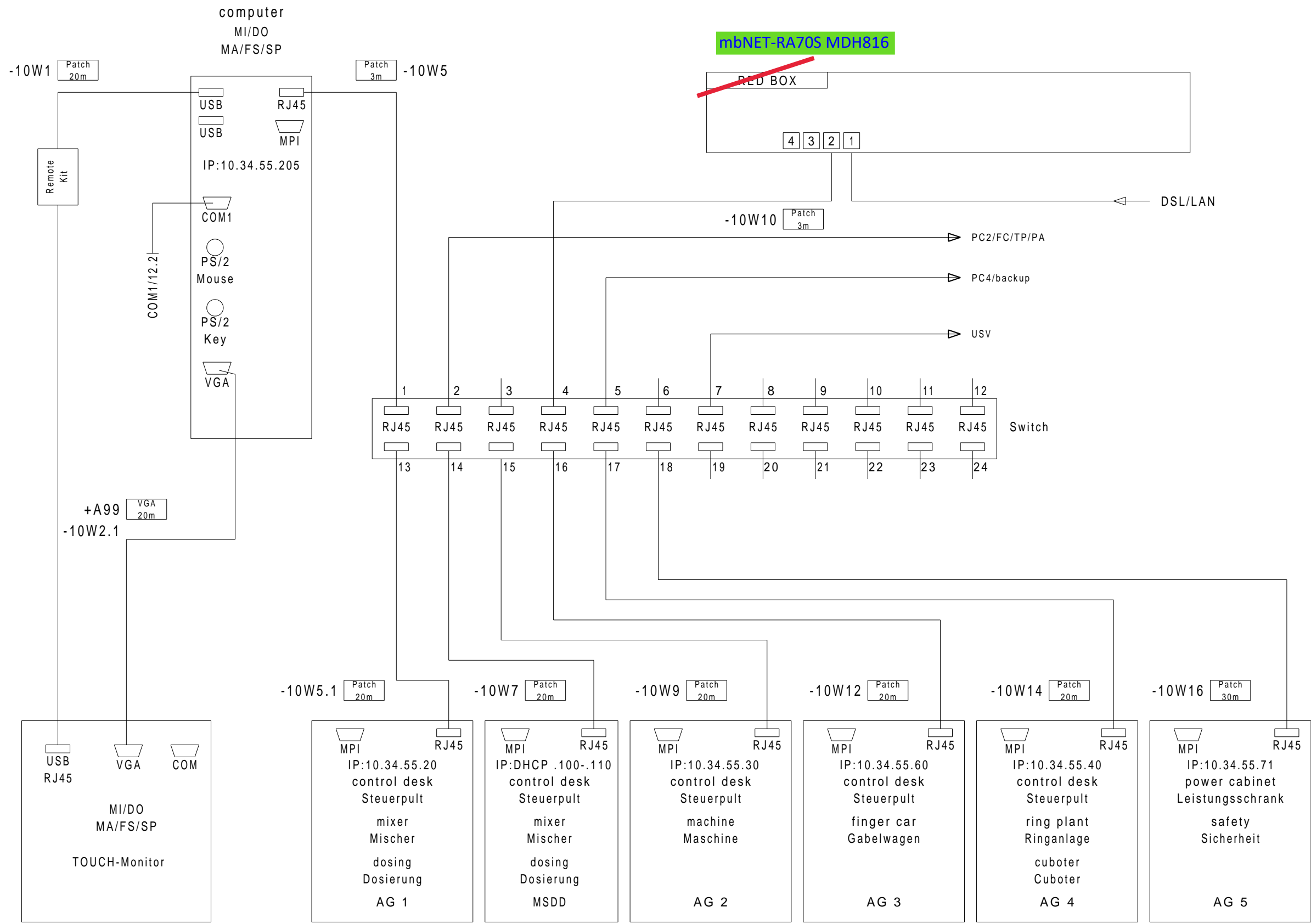
---

## 2. Option with PC cabinet

---







PDF

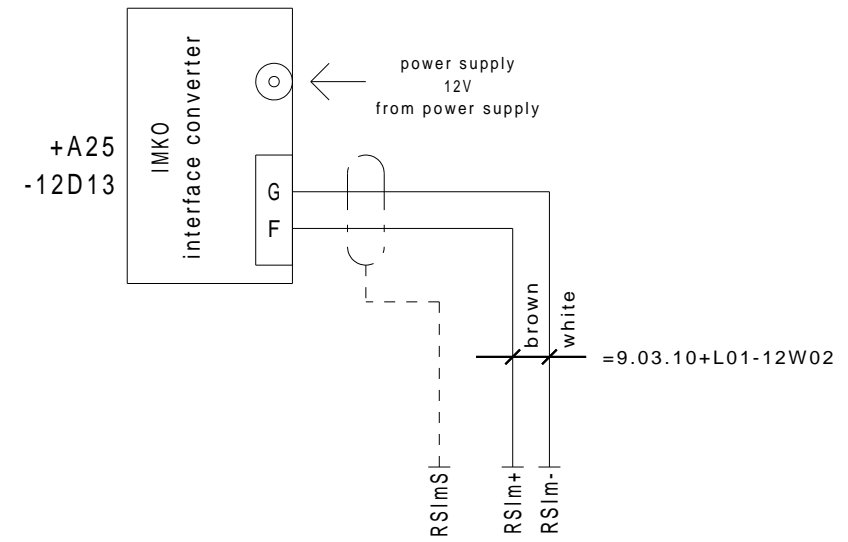
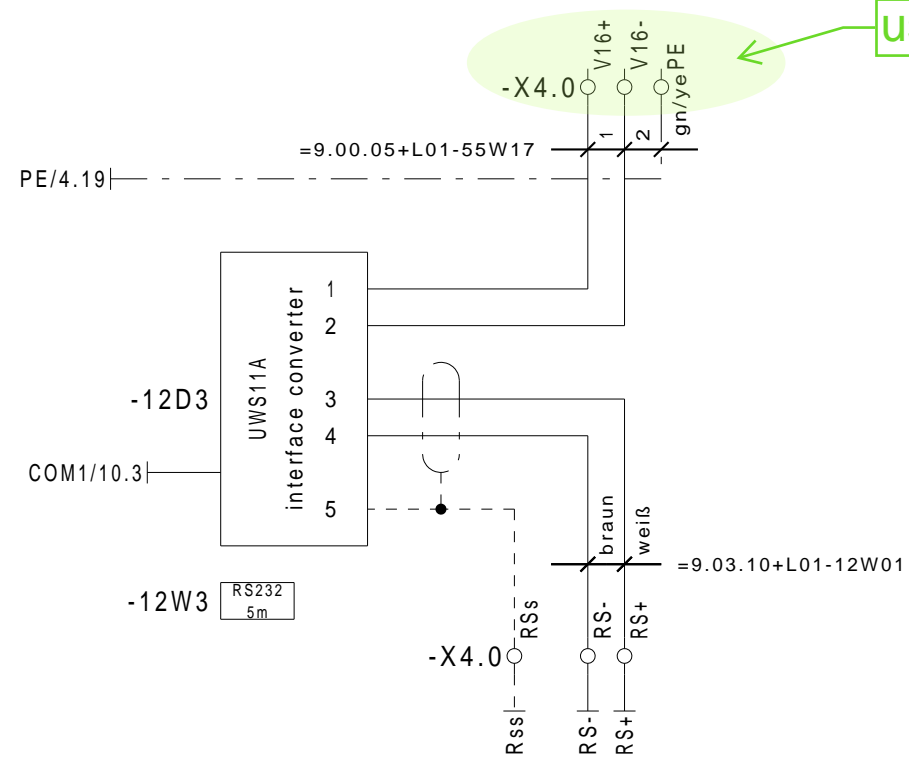
next page: 11

| revision | date        | name     | drawn by           | date     | name | plant overview |           |                              | plant    | project: pc - cabinet |
|----------|-------------|----------|--------------------|----------|------|----------------|-----------|------------------------------|----------|-----------------------|
| a        | Montage (a) | 16.03.11 | GLohrum            | 01.02.11 | td   |                |           |                              | PC       | layout: P-10.50.616   |
| b        |             |          | check              |          |      | order-no.:     | draw-no.: | The Modern Company           | location | quantity of pages: 21 |
| c        |             |          | template: Mu_PC_c2 |          |      | 201000102      | 3455      | for Concrete Products S.A.E. | L01      | page: 10              |
| d        |             |          |                    |          |      |                |           |                              |          |                       |



power supply  
Spannungsversorgung  
of  
vom  
safety cabinet  
Sicherheitsschrank

use for router



PDF

next page: 200

| revision           | date        | name     | drawn by | date     | name | plant overview  |            |           | plant                        | project: pc - cabinet                                   |
|--------------------|-------------|----------|----------|----------|------|---|------------|-----------|------------------------------|---|
| a                  | Montage (a) | 16.03.11 | GLohrum  | 01.02.11 | td   | Masa<br>Milestone to your success.<br>Masa-Straße 2<br>D-56626 Andernach<br>+49 (2632) 9292-0 | order-no.: | draw-no.: | The Modern Company           | location  |
| b                  |             |          |          |          |      |   | 201000102  | 3455      | for Concrete Products S.A.E. | L01   |
| c                  |             |          |          |          |      |   |            |           |                              |   |
| d                  |             |          |          |          |      |   |            |           |                              |   |
| template: Mu_PC_c2 |             |          |          |          |      |   |            |           |                              | layout: P-10.50.616<br>quantity of pages: 21   page: 12 |

Masa  
only

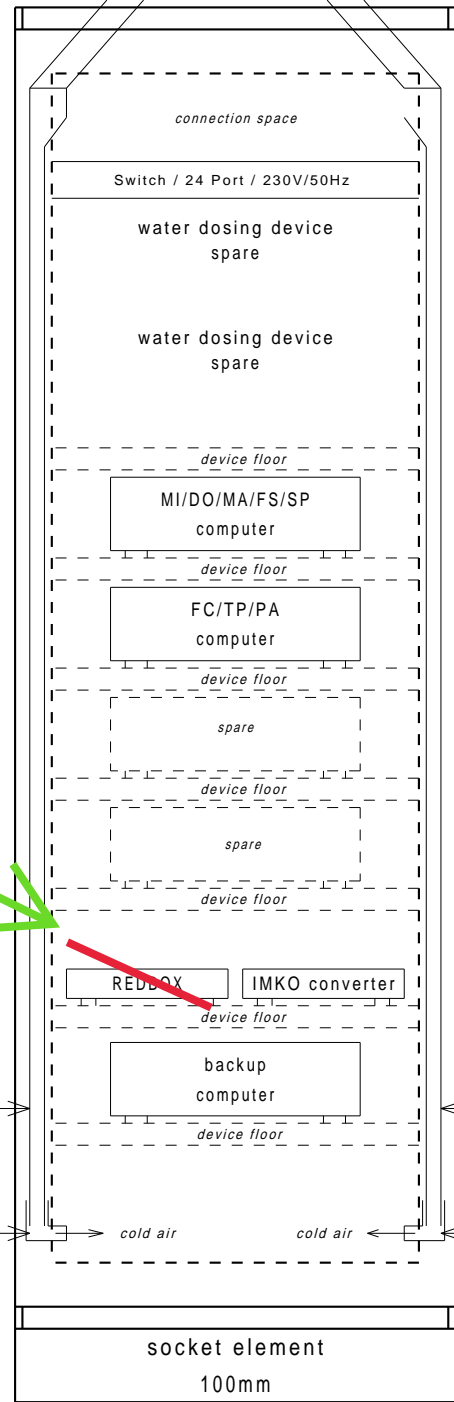
PC-Schrank mittels 16mm<sup>2</sup>-Leitung  
mit PE-Sammelschiene im Powertainer verbinden!

air-condition  
SK3383.100  
1000 WATT

plugs  
3286.880 -200D10.2

plugs  
3286.880 -200D10.3

24V DC supply from  
X4: V16+ & V16-



-200D5

air duct system  
3286.870

-200D5.1

baffle  
3286.990

air duct system  
3286.870 -200D10

baffle  
3286.990 -200D10.1

DK-TS8  
1800x600x600mm

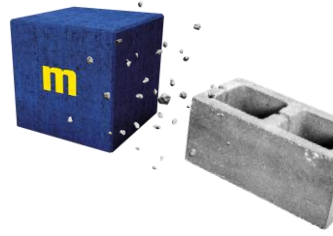
power cabinet door  
glass door

Socket 100mm

PDF

next page: 210

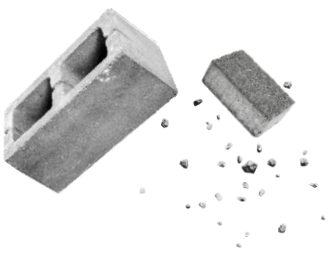
| revision | date        | name     | drawn by | date | name               | cabinet construction   |            |                              | plant              | project: pc - cabinet |                     |
|----------|-------------|----------|----------|------|--------------------|--|------------|------------------------------|--------------------|-----------------------|---------------------|
| a        | Montage (a) | 16.03.11 | GLohrum  | td   | 01.02.11           | <p>Masa-SträÙe 2<br/>D-56626 Andernach<br/>+49 (2632) 9292-0</p> | order-no.: | draw-no.:                    | The Modern Company | location              | layout: P-10.50.616 |
| b        |             |          |          |      | 201000102          |  | 3455       | for Concrete Products S.A.E. | L01                | quantity of pages: 21 | page: 200           |
| c        |             |          |          |      |                    |  |            |                              |                    |                       |                     |
| d        |             |          |          |      | template: Mu_PC_c2 |  |            |                              |                    |                       |                     |

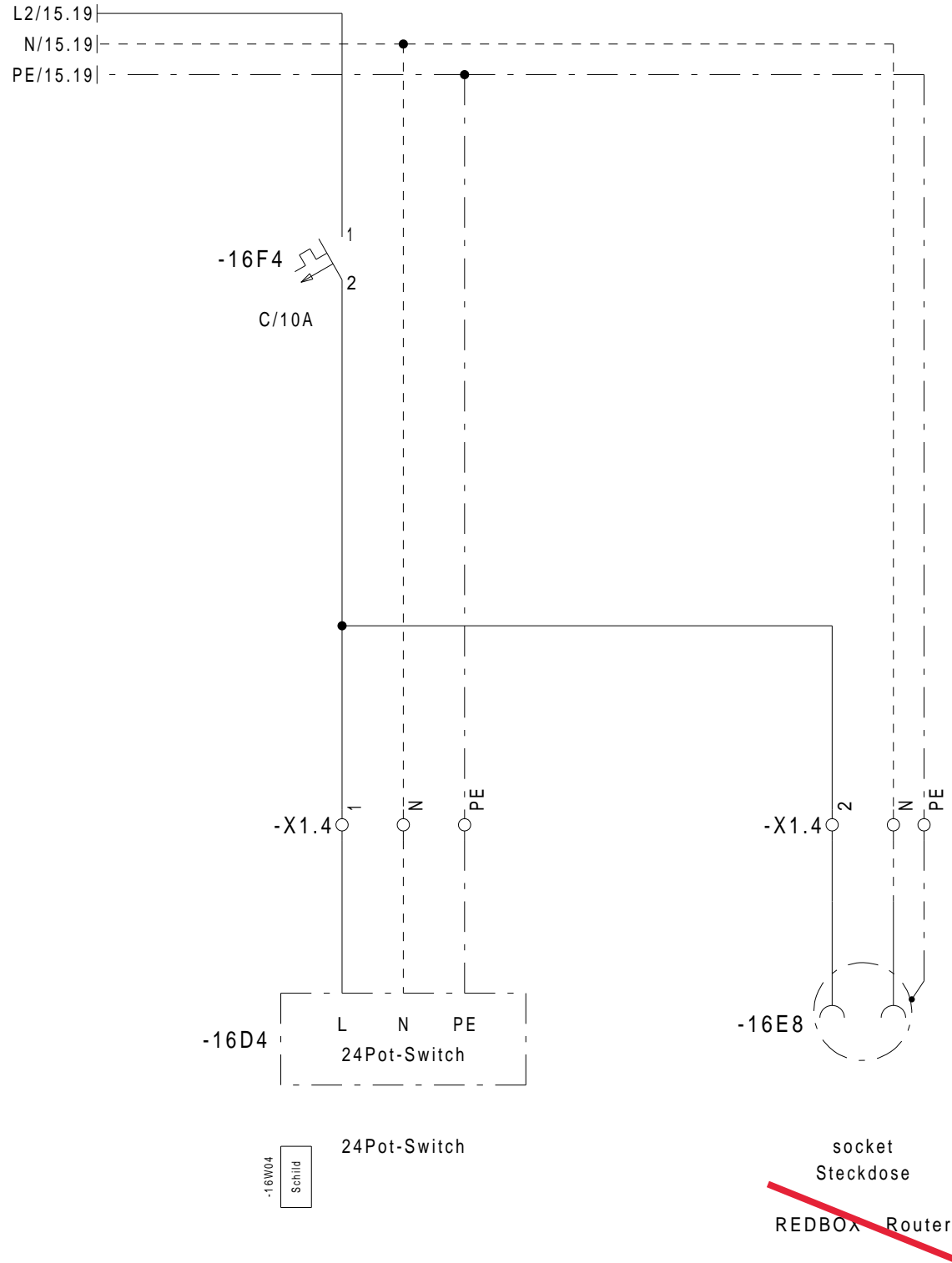


---

## 3. Until approx. 2015

---



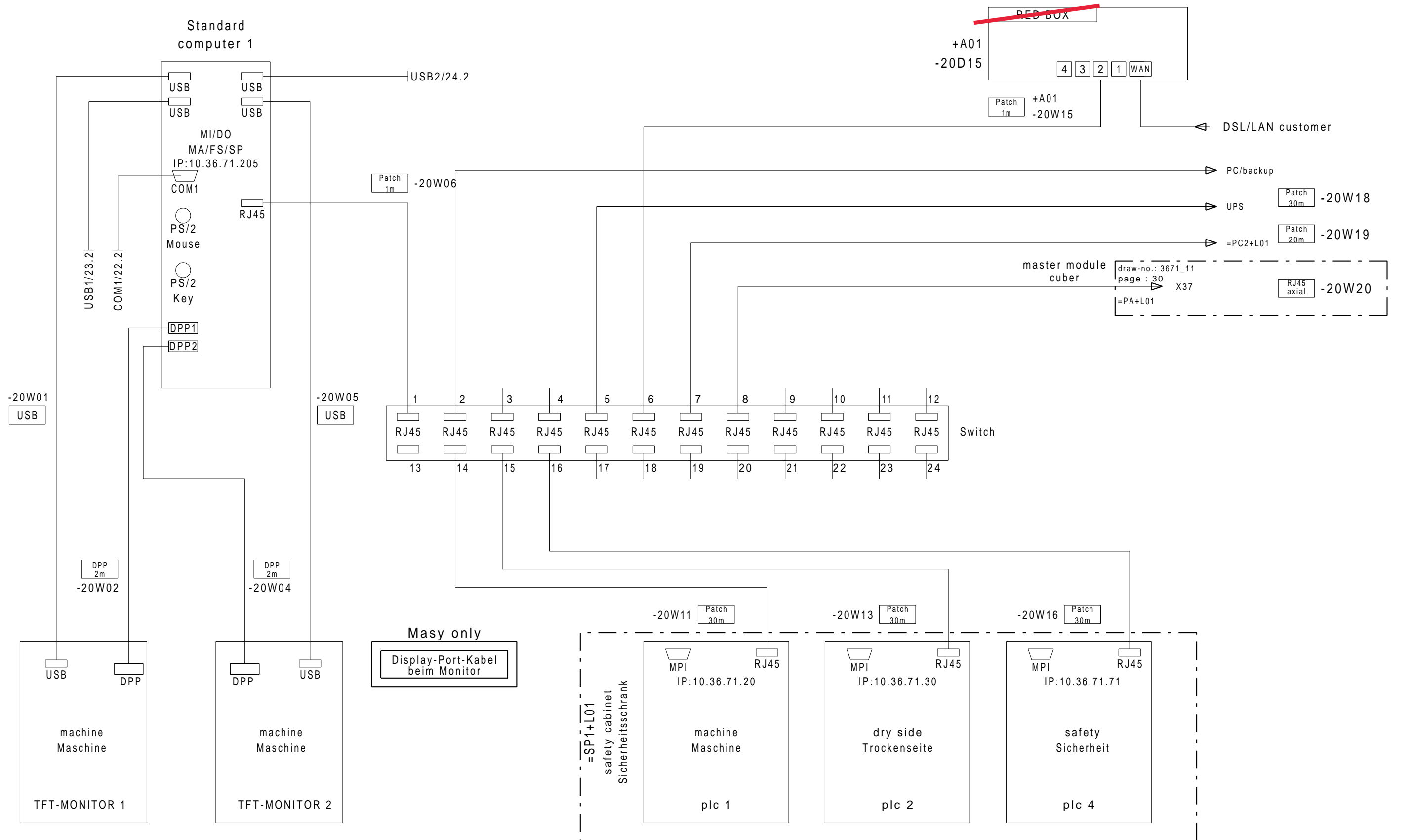


| revision | date | name | date | name      | power supply |  |  | plant    | project: control desk MD       |  |
|----------|------|------|------|-----------|--------------|--|--|----------|--------------------------------|--|
| a        |      |      |      |           |              |  |  | PC1      | layout:                        |  |
| b        |      |      |      |           |              |  |  | location | quantity of pages: 86 page: 16 |  |
| c        |      |      |      | check     |              |  |  | L01      |                                |  |
| d        |      |      |      | template: |              |  |  |          |                                |  |

**masa**  
Milestone to your success.  
Masa-Straße 2  
D-56626 Andernach  
+49 (2632) 9292-0



mbNET-RA70S MDH816



next page: 21

| revision | date | name | date      | name |
|----------|------|------|-----------|------|
| a        |      |      |           |      |
| b        |      |      |           |      |
| c        |      |      | check     |      |
| d        |      |      | template: |      |

**masa**  
Milestone to your success.  
Masa-Straße 2  
D-56626 Andernach  
+49 (2632) 9292-0

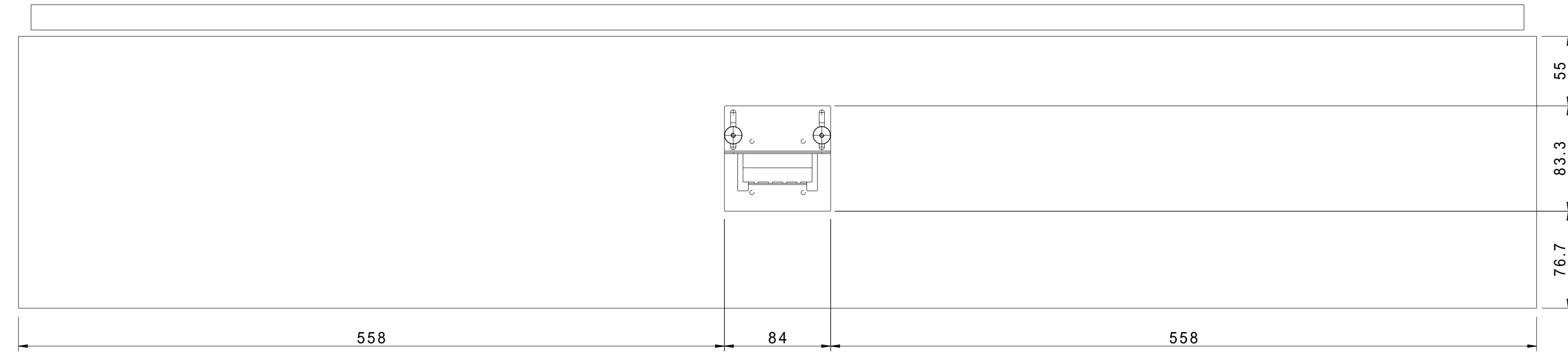


plant overview

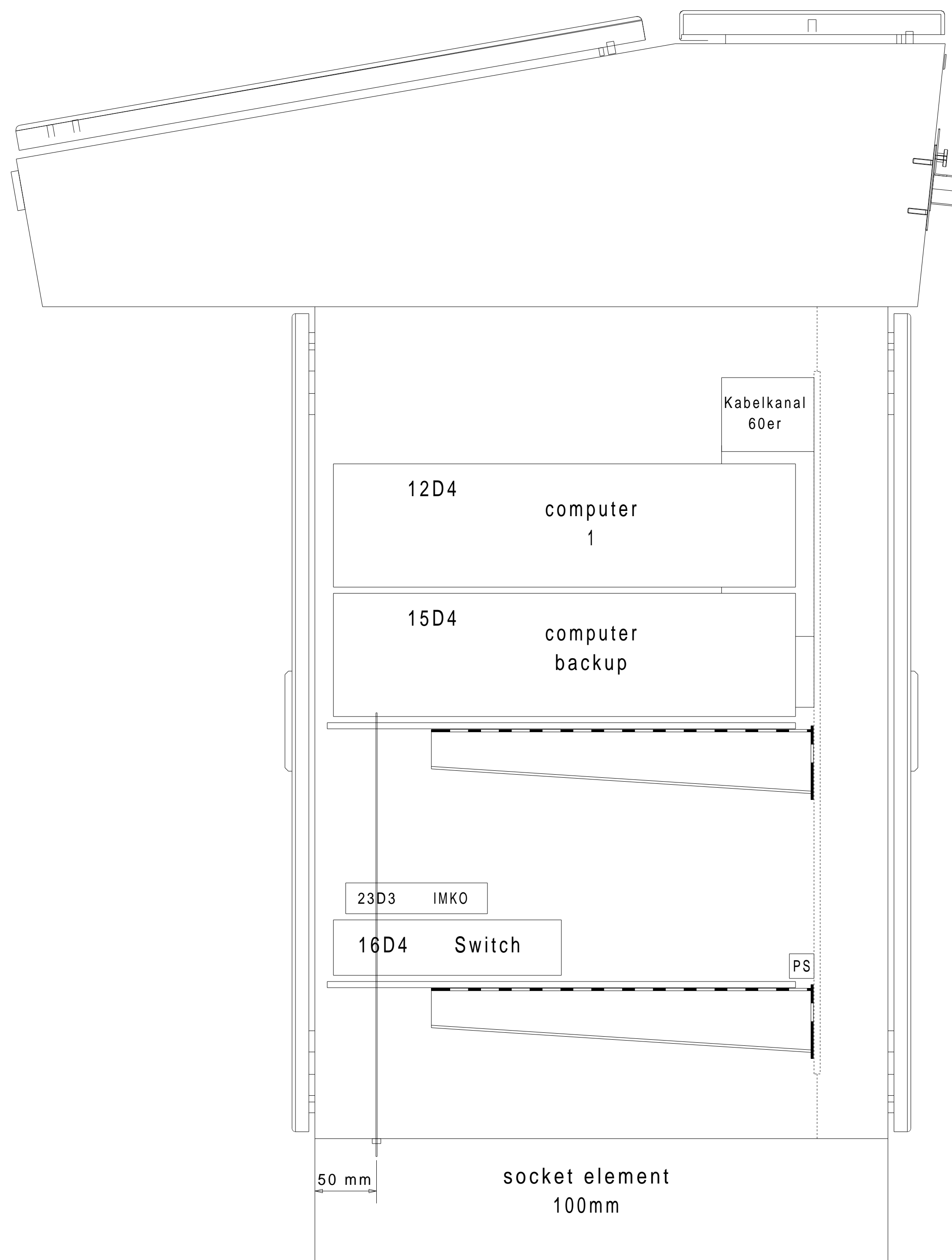
plant  
PC1  
location  
L01

project: control desk MD  
layout:  
quantity of pages: 86 page: 20

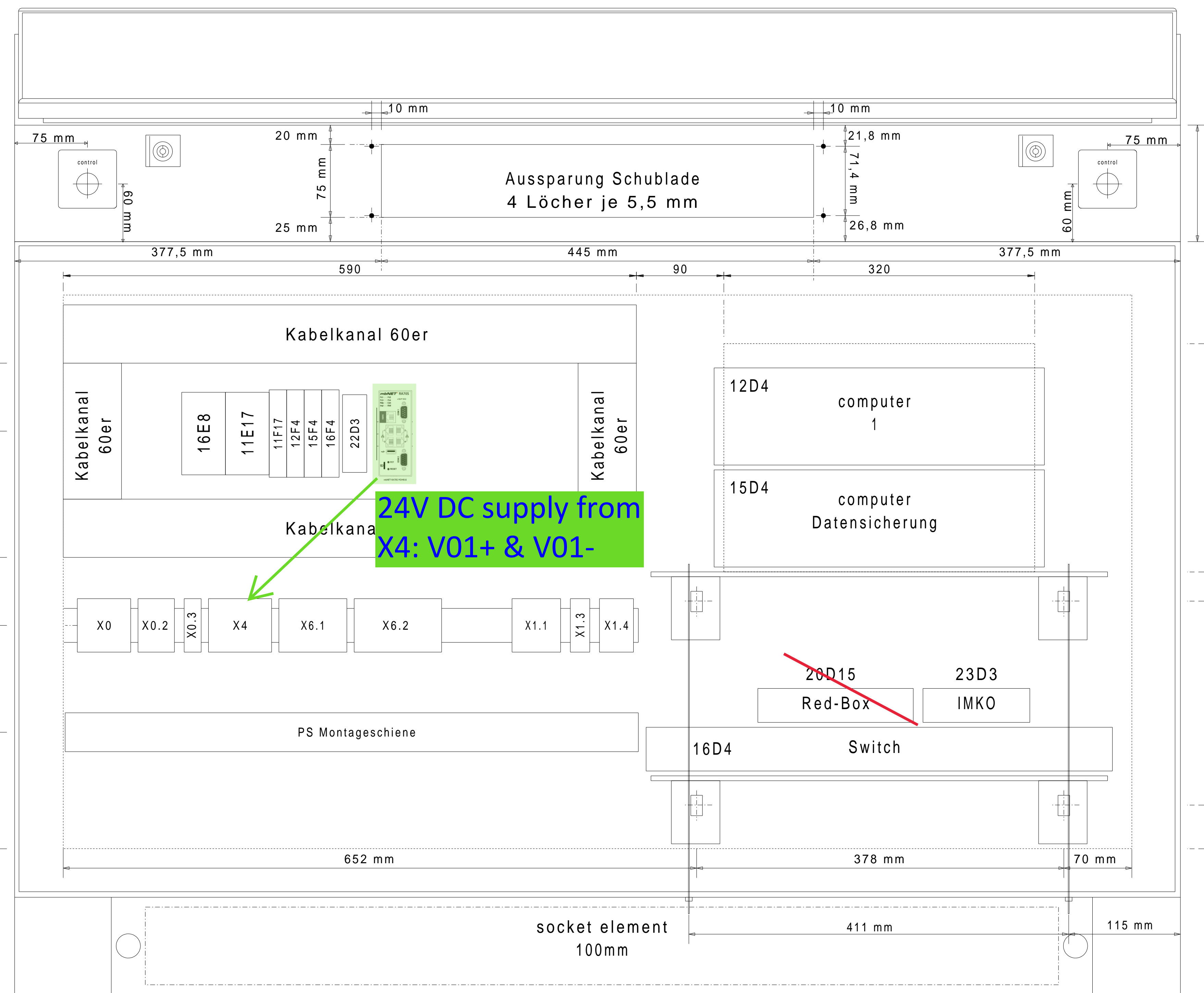
Rückansicht Pult



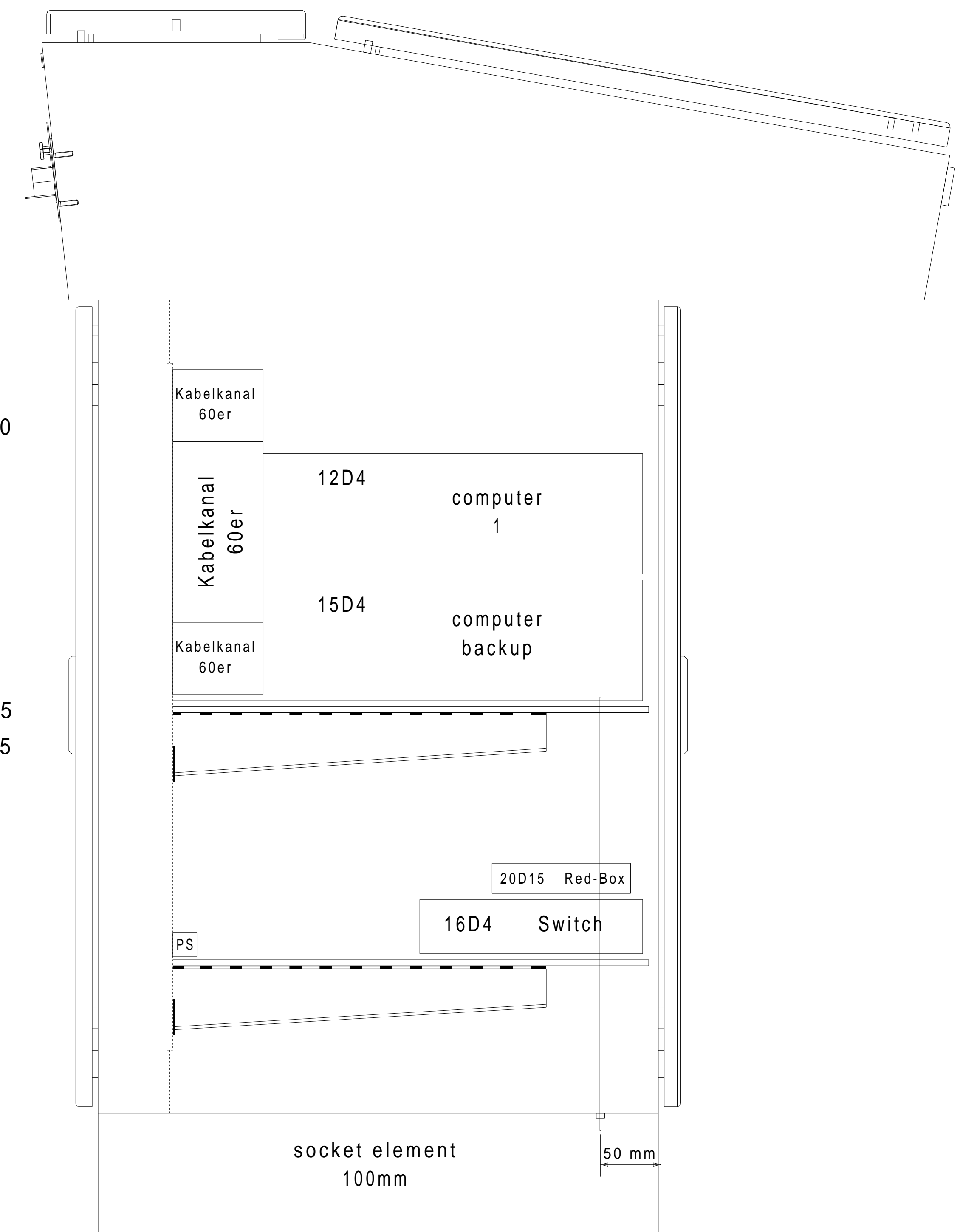
sideview (right)



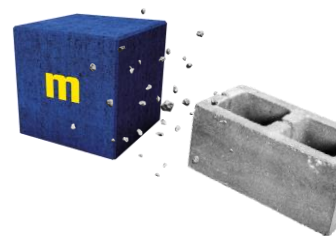
front view



sideview (left)



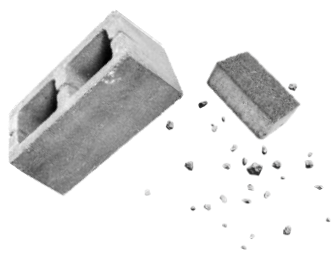
24V DC supply from X4: V01+ & V01-



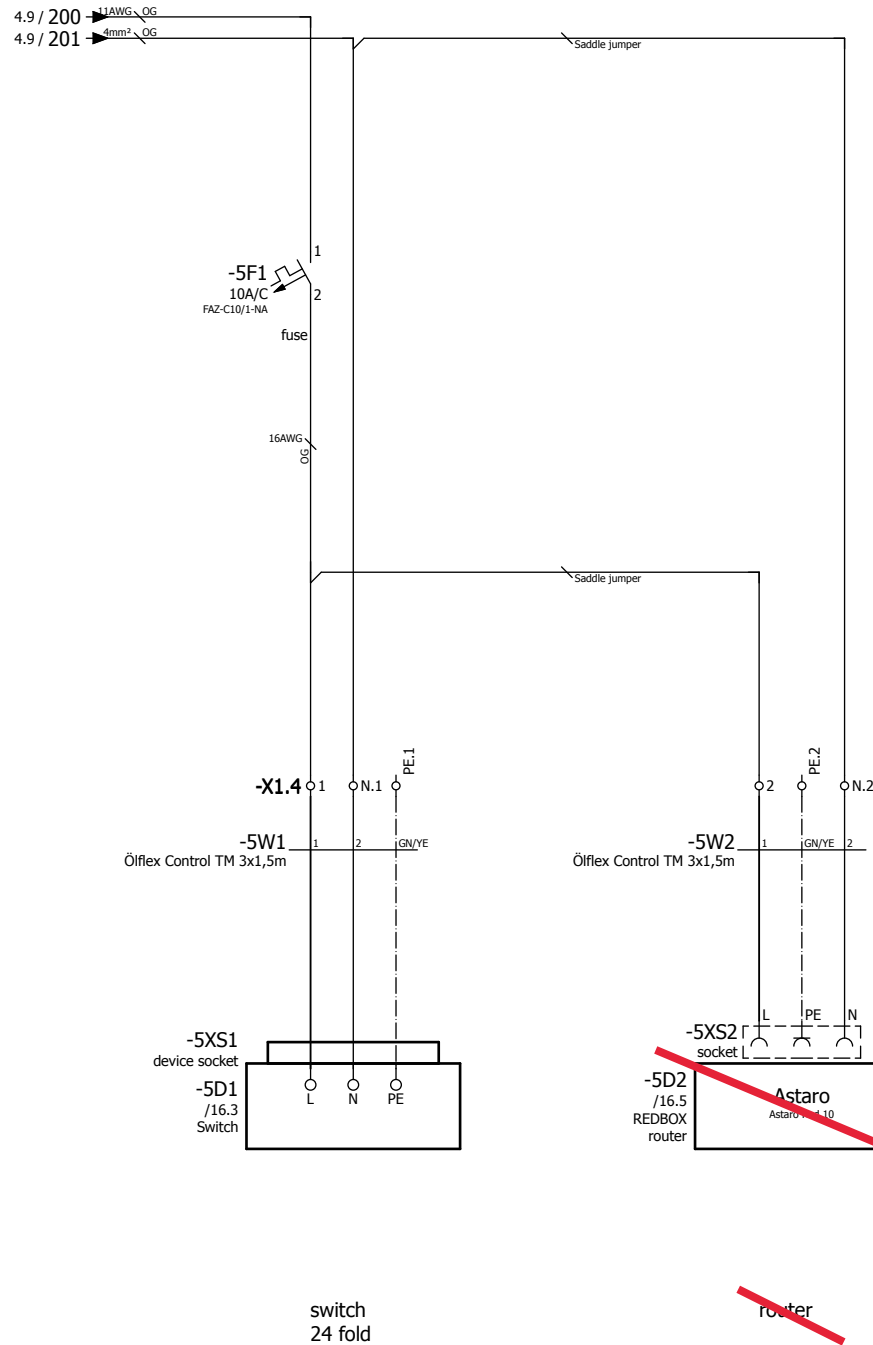
---

## 4. From around 2015

---





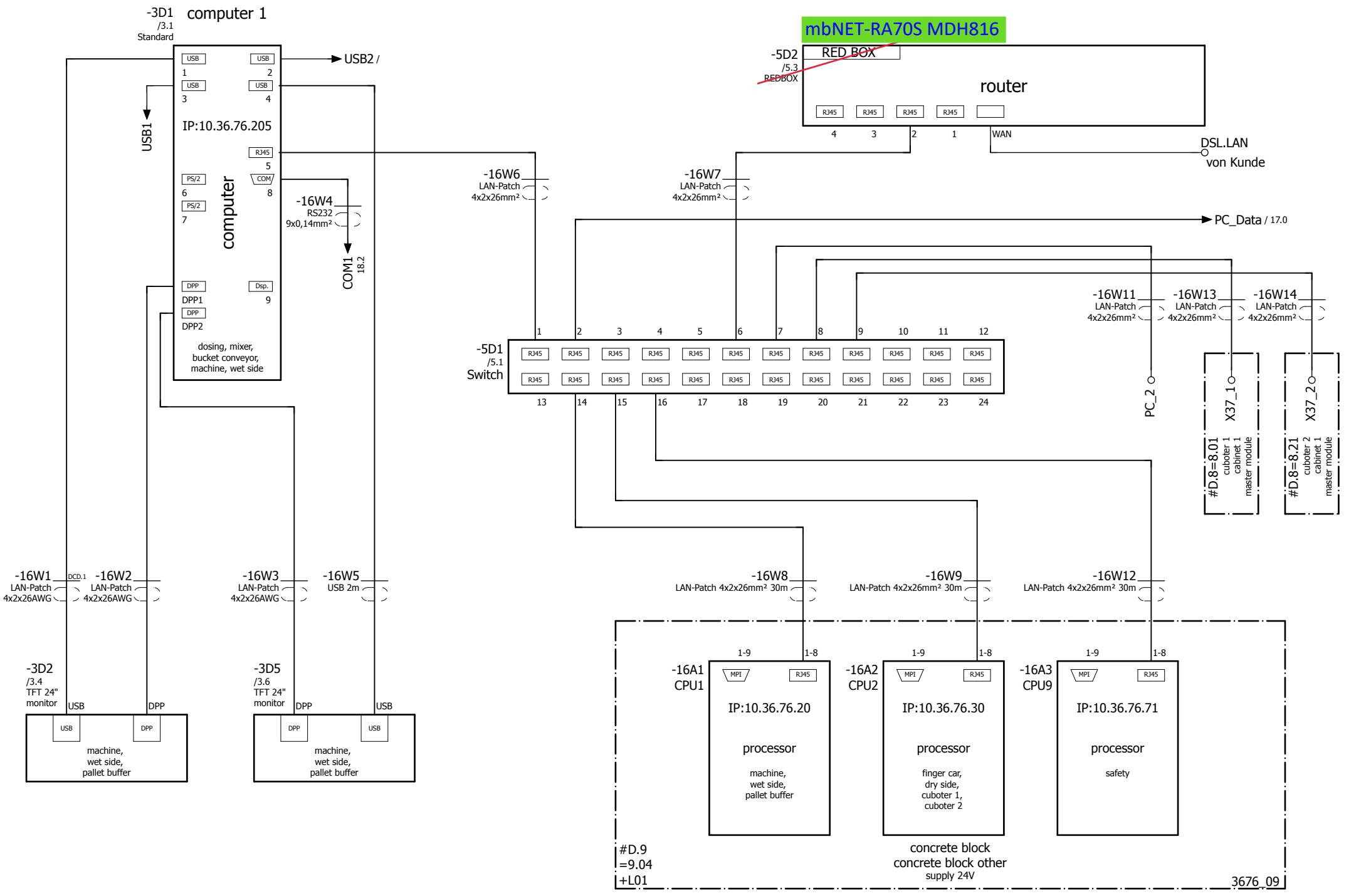


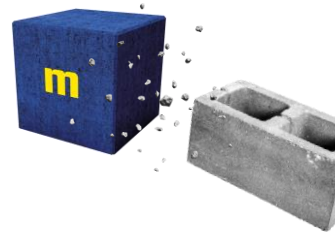
|          |      |      |      |        |       |             |
|----------|------|------|------|--------|-------|-------------|
| revision | date | Name | date | editor | appr. | Replaced by |
|          |      |      |      |        |       |             |

**masa**  
 Milestone to your success.  
 Masa Straße 2  
 D-56626 Andernach  
 +49 (2632) 9292 - 0

feed in  
 power supply switch

|              |  |              |
|--------------|--|--------------|
| Steuerpult-1 |  | =SUP         |
| cabinet 1    |  | +L01         |
|              |  | page 5       |
|              |  | from 18 page |

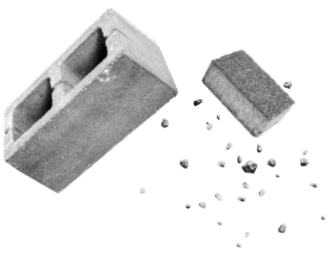


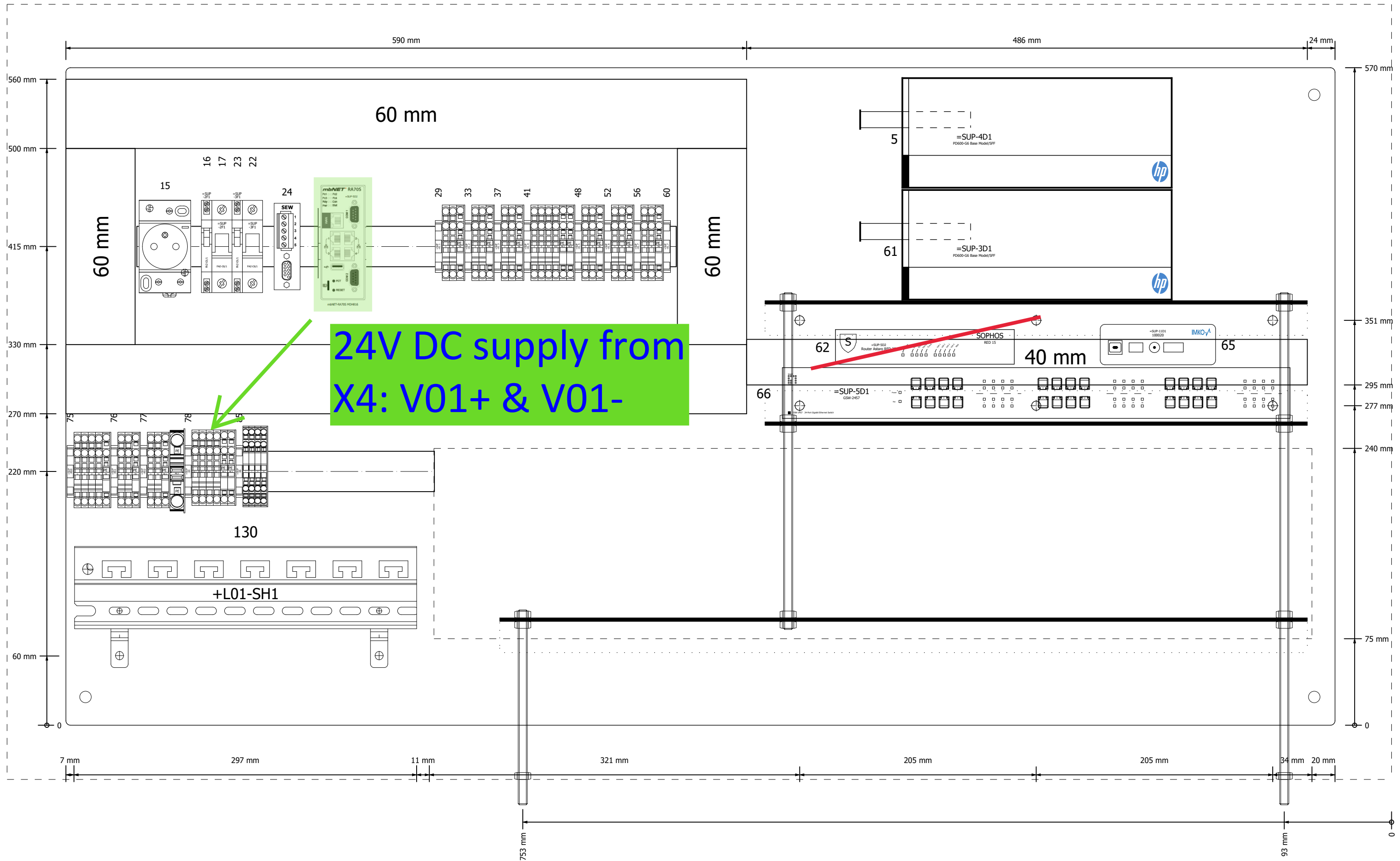


---

## 5. From around 2020

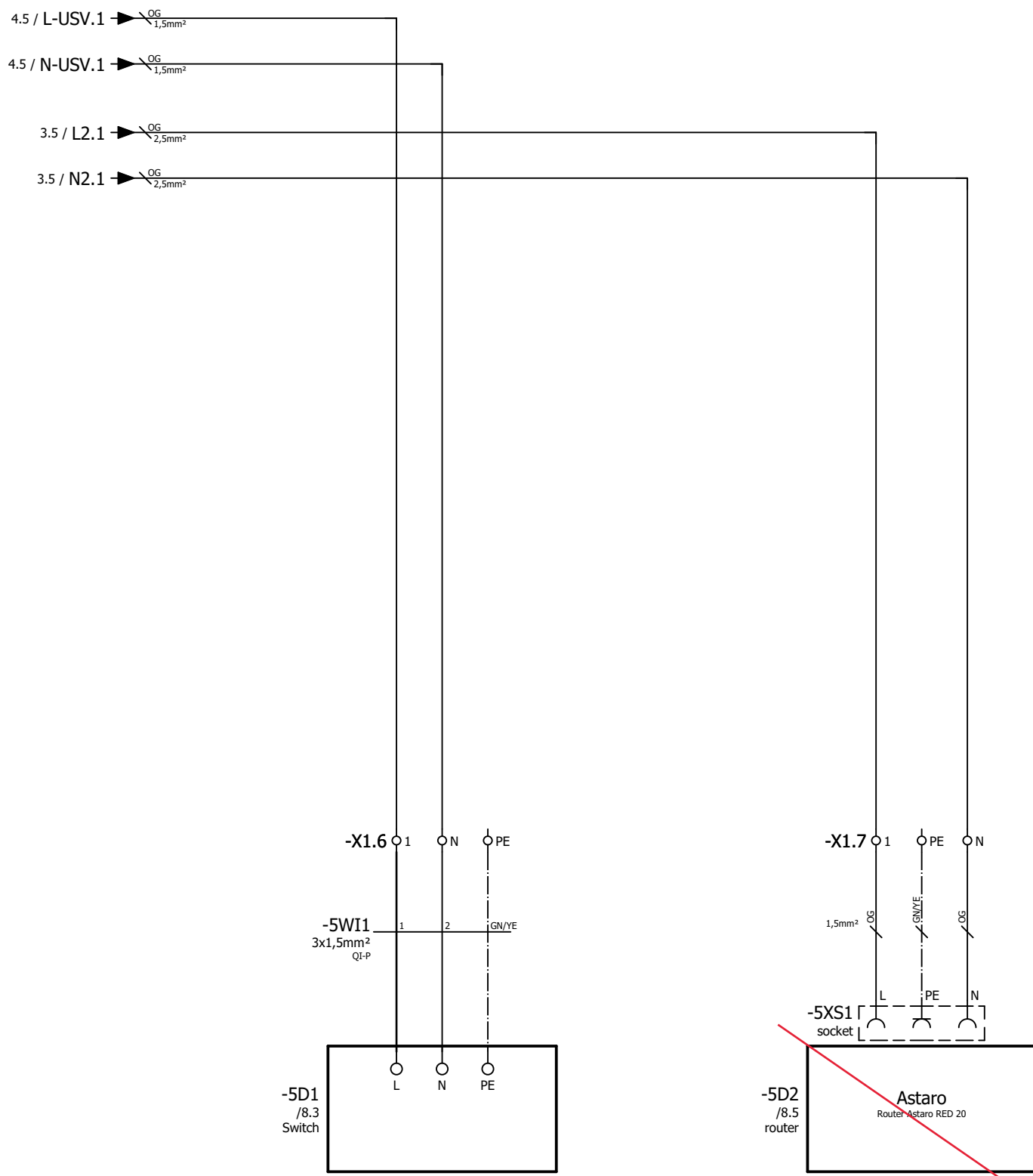
---





6

7a



Switch  
24 fold

~~router~~

