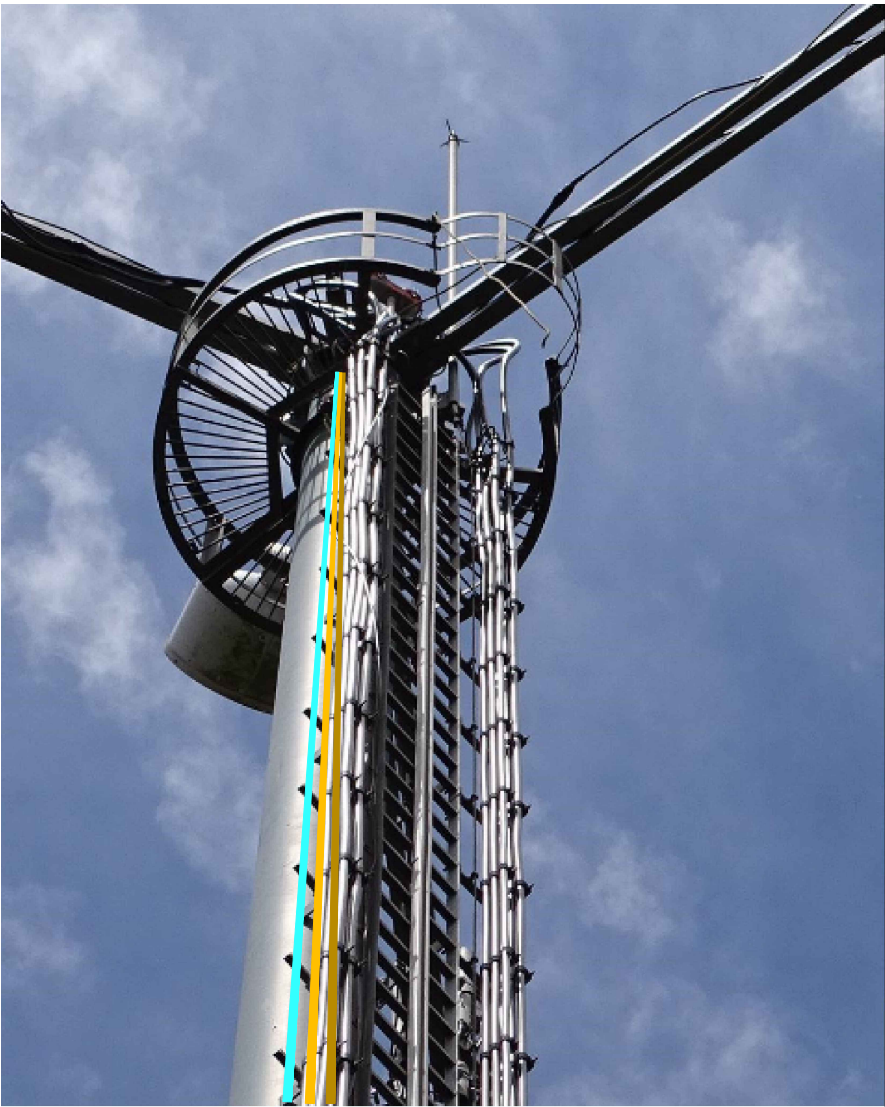
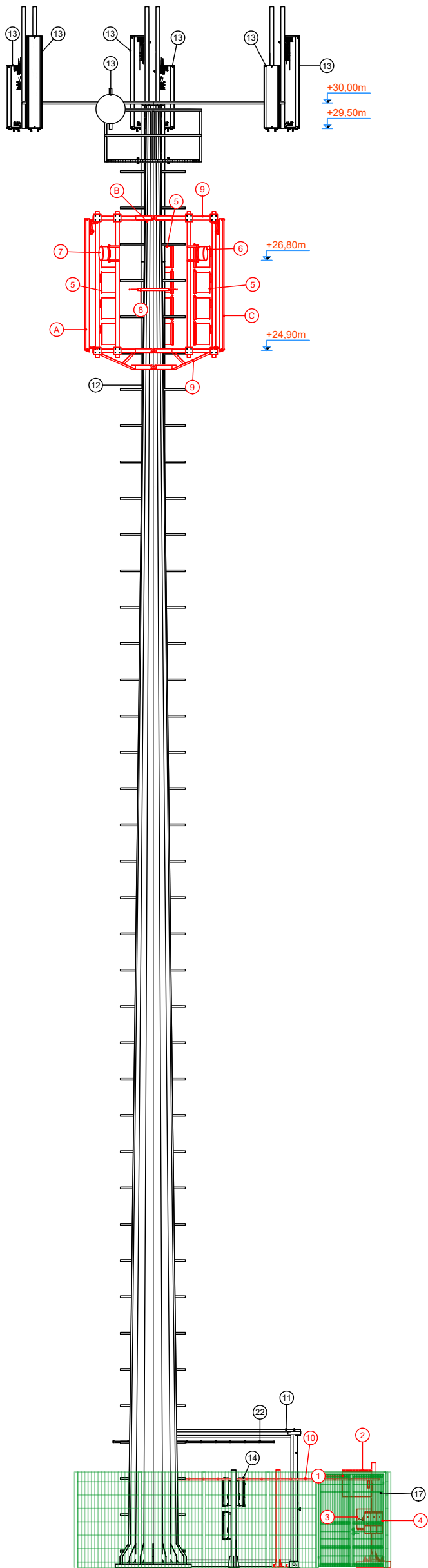


ANTENNA	
A	Install the AOC4518R21v06 antenna on the interface to be installed Sector 1 - Azimuth: 0° - HBA: 24.90m
B	Install the AOC4518R21v06 antenna on the interface to be installed Sector 2 - Azimuth: 120° - HBA: 24.90m
C	Install the AOC4518R21v06 antenna on the interface to be installed Sector 3 - Azimuth: 240° - HBA: 24.90m

LABEL	
①	Technical cabinet to install on Existing UPN 120 beams
②	Installation of switchboard
③	Installation of Cellnex switchboard
④	Installation of 5x OPM50M
⑤	Installation of 4x RRUs per sector
⑥	Installation of MW1 Ø300 (Az: To be Define HBA:26.80m)
⑦	Installation of MW2 Ø300 (Az: To be Define HBA:26.80m)
⑧	Installation of Security ring
⑨	Installation of Work Platform (Bottom/top)
⑩	Installation of cable path
⑪	Existing technical container
⑫	Metal Tower - 30 meters
⑬	Existing MEO Antenna
⑭	Existing RRU's
⑮	QGBT/QDC Cabinet
⑯	PT Telecom Pole
⑰	Site access
⑱	Existing APM30
⑲	Existing Rack
⑳	Existing BTS 3900
㉑	Existing Rectifier Ascom
㉒	Existing Cable path

NEW EQUIPMENTS - DIGI PORTUGAL									
Sector Number	Antenna number	Antenna type	Azimut	Height (m) (*)	Number of RRUs	Jumpers length (maximum 12m)	Feeder type	FO/DC lenght (m)	MW cable lenght (m)
S1	RF1	AOC4518R21v06	0	24,9	4	3 / 3 / 3 / 3	/ / /	40	-
S2	RF2	AOC4518R21v06	120	24,9	4	3 / 3 / 3 / 3	/ / /	40	-
S3	RF3	AOC4518R21v06	240	24,9	4	3 / 3 / 3 / 3	/ / /	40	-
-	MW1	Ø0.3m	To be define	26,8	-	-	-	-	40
-	MW2	Ø0.3m	To be define	26,8	-	-	-	-	40

\* Height from ground level to the bottom of the RF antenna, respectively the center of the MW antenna



Wiring Label

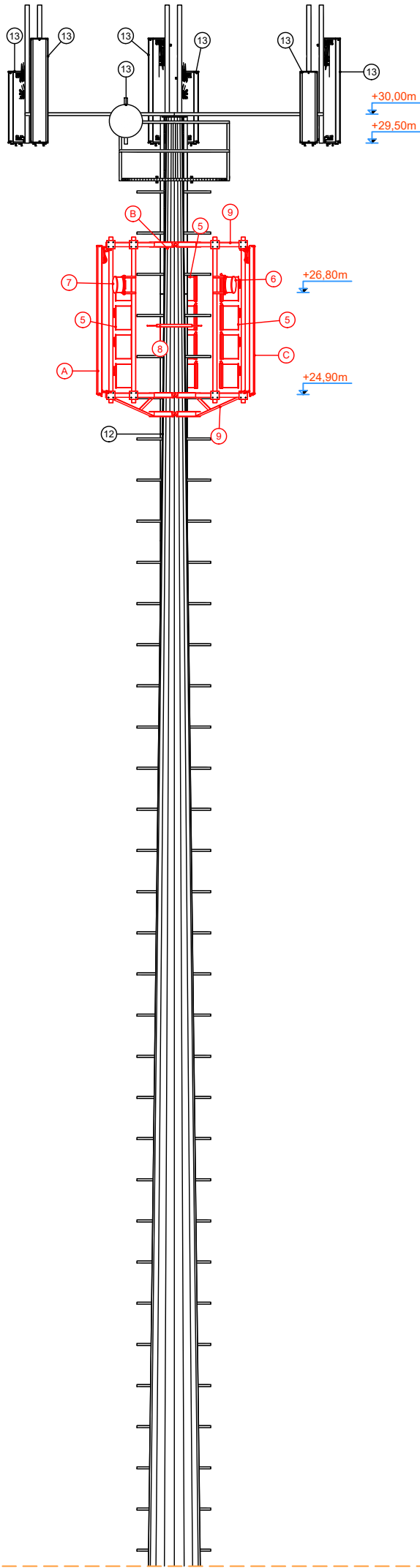
DC power supply cables

Transmission FO cables (Baseband - RRU)

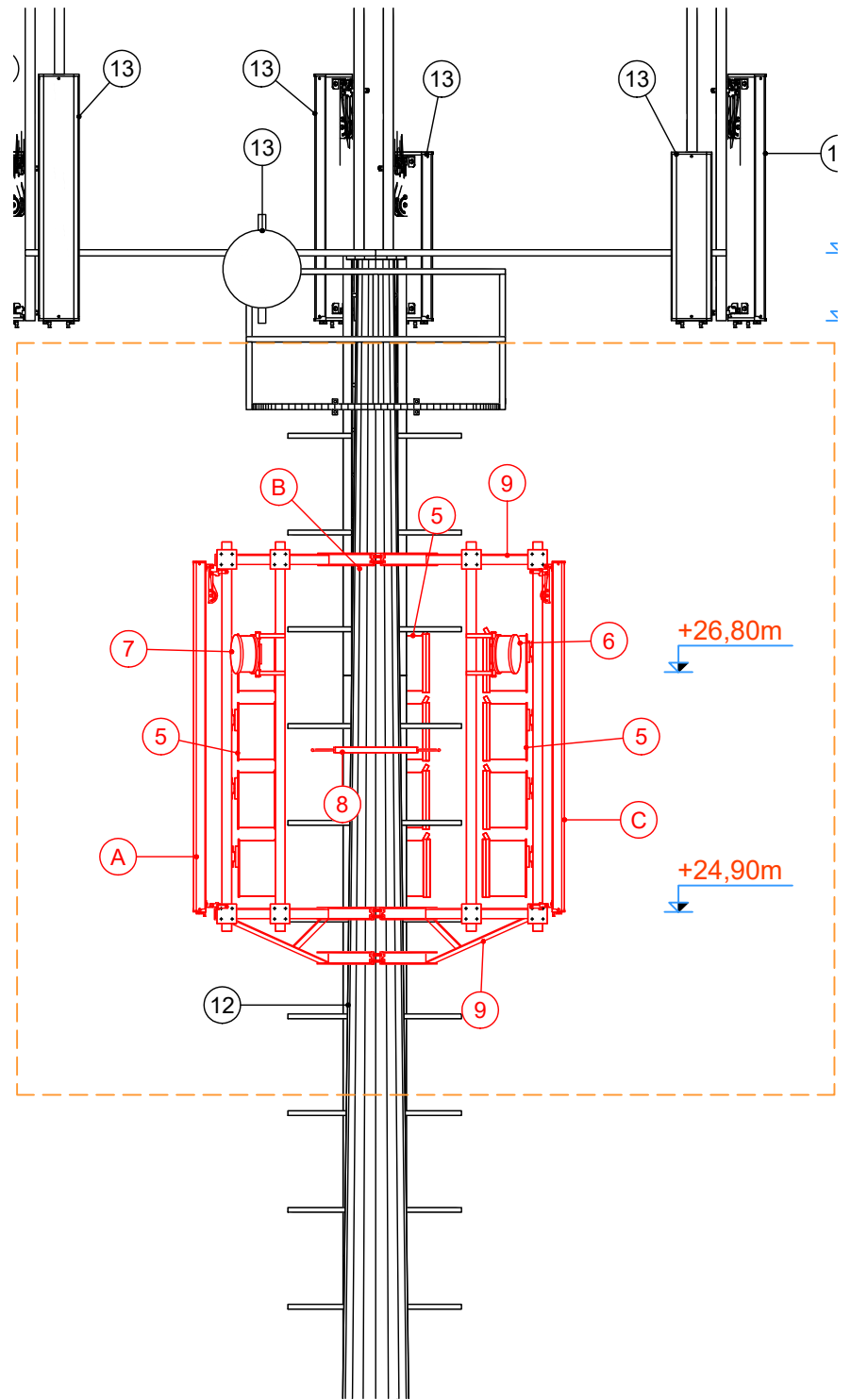
MW's connection cables

ANTENNA	
A	Install the AOC4518R21v06 antenna on the interface to be installed Sector 1 - Azimuth: 0° - HBA: 24.90m
B	Install the AOC4518R21v06 antenna on the interface to be installed Sector 2 - Azimuth: 120° - HBA: 24.90m
C	Install the AOC4518R21v06 antenna on the interface to be installed Sector 3 - Azimuth: 240° - HBA: 24.90m

LABEL	
1	Technical cabinet to install on Existing UPN 120 beams
2	Installation of switchboard
3	Installation of Cellnex switchboard
4	Installation of 5x OPM50M
5	Installation of 4x RRUs per sector
6	Installation of MW1 Ø300 (Az: To be Define HBA:26.80m)
7	Installation of MW2 Ø300 (Az: To be Define HBA:26.80m)
8	Installation of Security ring
9	Installation of Work Platform (Bottom/top)
10	Installation of cable path
11	Existing technical container
12	Metal Tower - 30 meters
13	Existing MEO Antenna
14	Existing RRU's
15	QGBT/QDC Cabinet
16	PT Telecom Pole
17	Site access
18	Existing APM30
19	Existing Rack
20	Existing BTS 3900
21	Existing Rectifier Ascom
22	Existing Cable path



Detail A  
Scale: 1/100

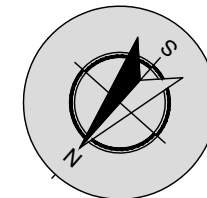


Elevation Plan  
Scale: 1/50

Wiring Label	
<span style="color: cyan;">—</span>	DC power supply cables
<span style="color: yellow;">—</span>	Transmission FO cables (Baseband - RRU)
<span style="color: brown;">—</span>	MW's connection cables

ANTENNA	
<b>(A)</b>	Install the AOC4518R21v06 antenna on the interface to be installed Sector 1 - Azimuth: 0° - HBA: 24.90m
<b>(B)</b>	Install the AOC4518R21v06 antenna on the interface to be installed Sector 2 - Azimuth: 120° - HBA: 24.90m
<b>(C)</b>	Install the AOC4518R21v06 antenna on the interface to be installed Sector 3 - Azimuth: 240° - HBA: 24.90m

LABEL	
<b>(1)</b>	Technical cabinet to install on Existing UPN 120 beams
<b>(2)</b>	Installation of switchboard
<b>(3)</b>	Installation of Cellnex switchboard
<b>(4)</b>	Installation of 5x OPM50M
<b>(5)</b>	Installation of 4x RRUs per sector
<b>(6)</b>	Installation of MW1 Ø300 (Az: To be Define HBA:26.80m)
<b>(7)</b>	Installation of MW2 Ø300 (Az: To be Define HBA:26.80m)
<b>(8)</b>	Installation of Security ring
<b>(9)</b>	Installation of Work Platform (Bottom/top)
<b>(10)</b>	Installation of cable path
<b>(11)</b>	Existing technical container
<b>(12)</b>	Metal Tower - 30 meters
<b>(13)</b>	Existing MEO Antenna
<b>(14)</b>	Existing RRU's
<b>(15)</b>	QGBT/QDC Cabinet
<b>(16)</b>	PT Telecom Pole
<b>(17)</b>	Site access
<b>(18)</b>	Existing APM30
<b>(19)</b>	Existing Rack
<b>(20)</b>	Existing BTS 3900
<b>(21)</b>	Existing Rectifier Ascom
<b>(22)</b>	Existing Cable path

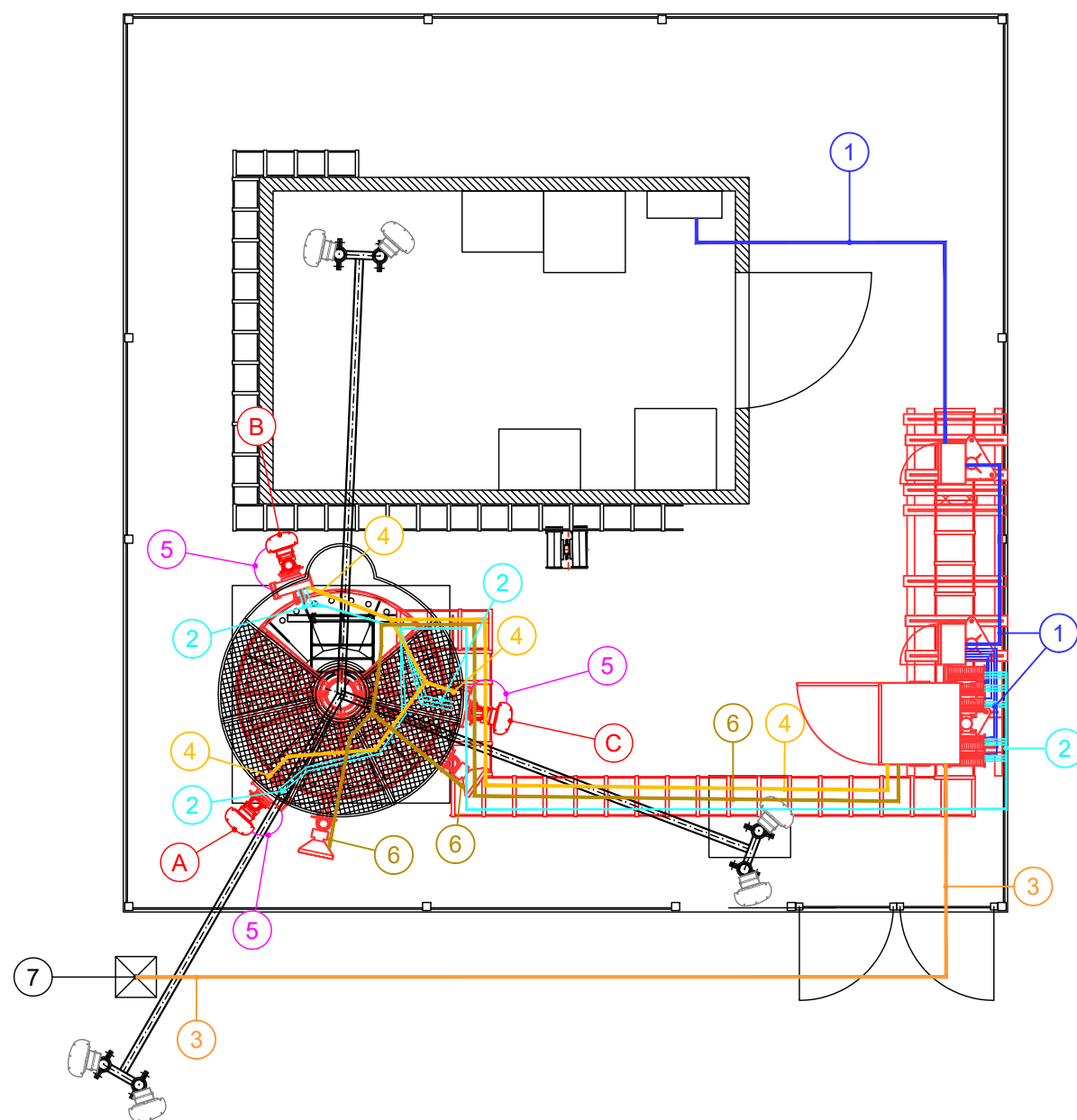


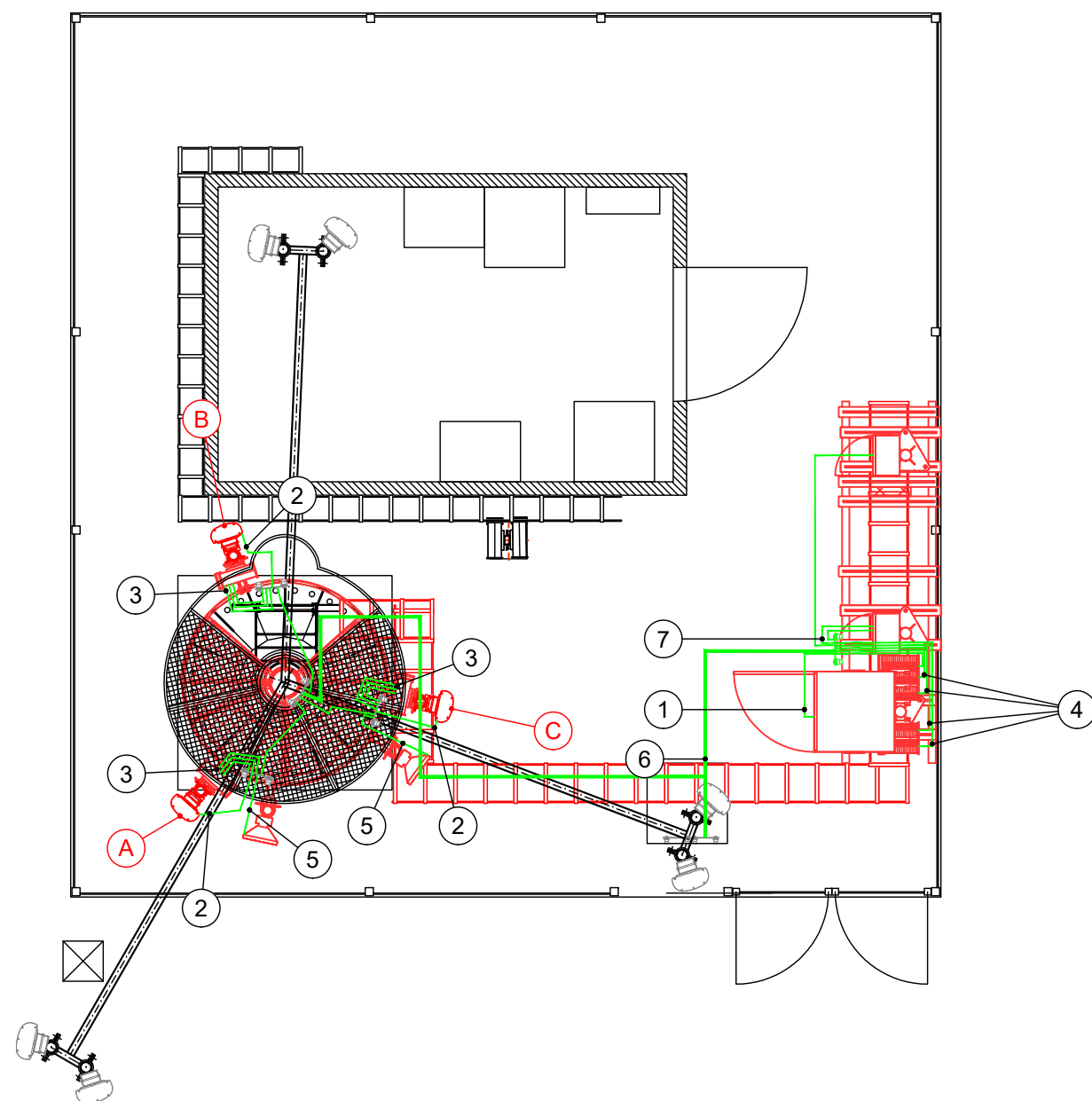
## ANTENNA

- A** Install the AOC4518R21v06 antenna on the interface to be installed  
Sector 1 - Azimuth: 0° - HBA: 24.90m
- B** Install the AOC4518R21v06 antenna on the interface to be installed  
Sector 2 - Azimuth: 120° - HBA: 24.90m
- C** Install the AOC4518R21v06 antenna on the interface to be installed  
Sector 3 - Azimuth: 240° - HBA: 24.90m

## LABEL

①	AC power supply cables
②	DC power supply cables
③	Transmission fiber cables (Distribution Point)
④	Transmission fiber cables (Baseband - RRU)
⑤	3 x 4 jumpers 1/2" - RRUs to antenna
⑥	MW's connection cables
⑦	Telecommunications Pole





## ANTENNA

- (A) Install the AOC4518R21v06 antenna on the interface to be installed  
Sector 1 - Azimuth: 0° - HBA: 24.90m
- (B) Install the AOC4518R21v06 antenna on the interface to be installed  
Sector 2 - Azimuth: 120° - HBA: 24.90m
- (C) Install the AOC4518R21v06 antenna on the interface to be installed  
Sector 3 - Azimuth: 240° - HBA: 24.90m

## LABEL

①	Equipment ground connection
②	Antenna ground connection
③	RRU ground connection
④	OPM50M ground connection
⑤	MW ground connection
⑥	Connection from new ground buses to Existing ground bus
⑦	Ground bus to install

