

<b>Model</b>	<b>MWH 2000LTM-CEV</b>
Item No.	503-200-515
Nominal Heating Capacity (net) kW <sup>1</sup>	154.3
Heating Capacity Range (gross) kW <sup>2</sup>	14.2 ~ 219.9
Input Power kW <sup>1</sup>	46.5
COP <sup>1</sup>	3.32
Master Controller	Schneider M172
Slave Controllers	UC8 (x4)
Design HEX differential °C	15
Min./Nominal Water Flow rate <sup>1</sup> l/min.	20 / 217
Min./Max. Inlet Water temp. °C (Heating)	20 / 50
Min./Max. Operating Ambient Air temp. °C	- 10 / 45
Design Water Temperature (EWT/LWT) °C	30 / 45
Entering Water Pressure Drop kPa <sup>3</sup>	21
Min. Water Volume in sys. for Space Htg litres	150
Min. Water Volume in sys. for 100% F/A litres	300
Water Volume in unit litres	52
Heat Exchanger	Thermoshell® (x4)
Max. Operating Water Pressure kPa	1000 (145 psi)
Electronic Expansion Valves	12 (3 / sys.)
Refrigerant	R32
Refrigerant Charge kg	5.0 / sys.
Compressor type	Inverter scroll (x4)
Compressor oil type	POE-46 (NXG5020 or equivalent)
Power supply <sup>5</sup>	3 ph. 400 V ac 50 Hz + N + E
Running current <sup>1</sup> A/ph.	103
Max. Running Current A/ph.	121
RCD type recommendation	type B, 30mA, 3 pole
Water connections	2 1/2" flanged (x2)
Sound Power (SWL) <sup>4</sup> dB(A)	85
Sound Pressure Level @3m (SPL) dB(A)	69
Fan type	EC Axial 800 mm (x2)
External static pressure available of fans Pa	125
Pump type required	External, BLDC
Low ambient performance enhancement	EVI
Communication Options	BMS / Modbus / BACnet
Net weight (excl. water) kg	1546
Shipping weight kg	1596

<sup>1</sup> Rating conditions: 7/6 °C db/wb outdoor ambient; EWT 30°C; LWT 45°C; allowing for average defrost.

<sup>2</sup> Ranges at rating conditions: Min. speed [1 comp.] ~ max. 100% [4 comp.]

<sup>3</sup> Pressure drop at Water Flow rate and rating conditions above.

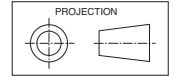
<sup>4</sup> Radiated. EN 12102-1:2017.

<sup>5</sup> Voltage range: 380–440V.

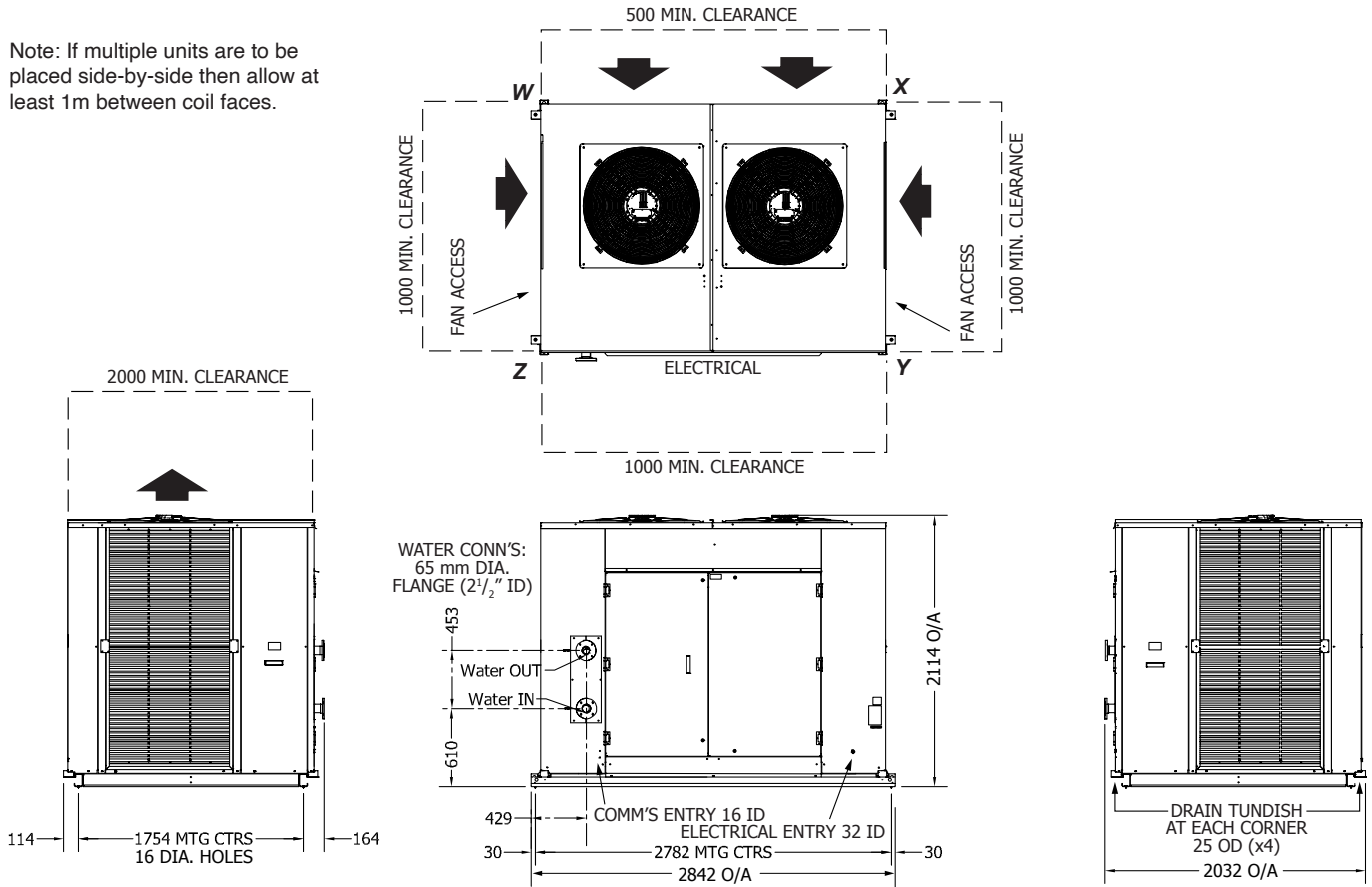
**MWH 2000LTM**

POINT LOADS (kg)			
W	X	Y	Z
223	363	387	573

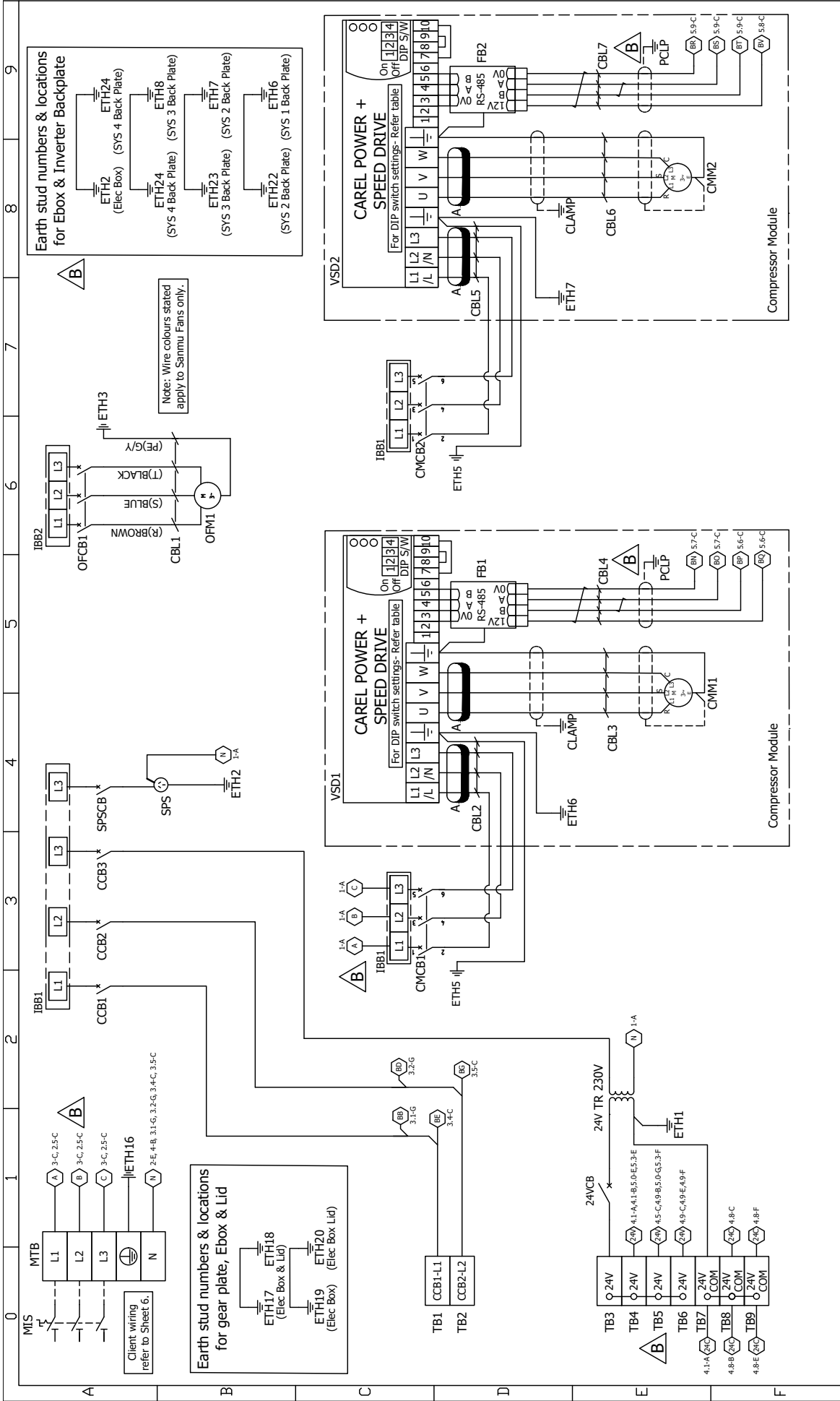
Note: If multiple units are to be placed side-by-side then allow at least 1m between coil faces.



Not to Scale



**NOTE**  
Specifications are subject to change without notice due to the manufacturer's ongoing research and development programme.



SYSTEM 3 & 4 ON NEXT PAGE

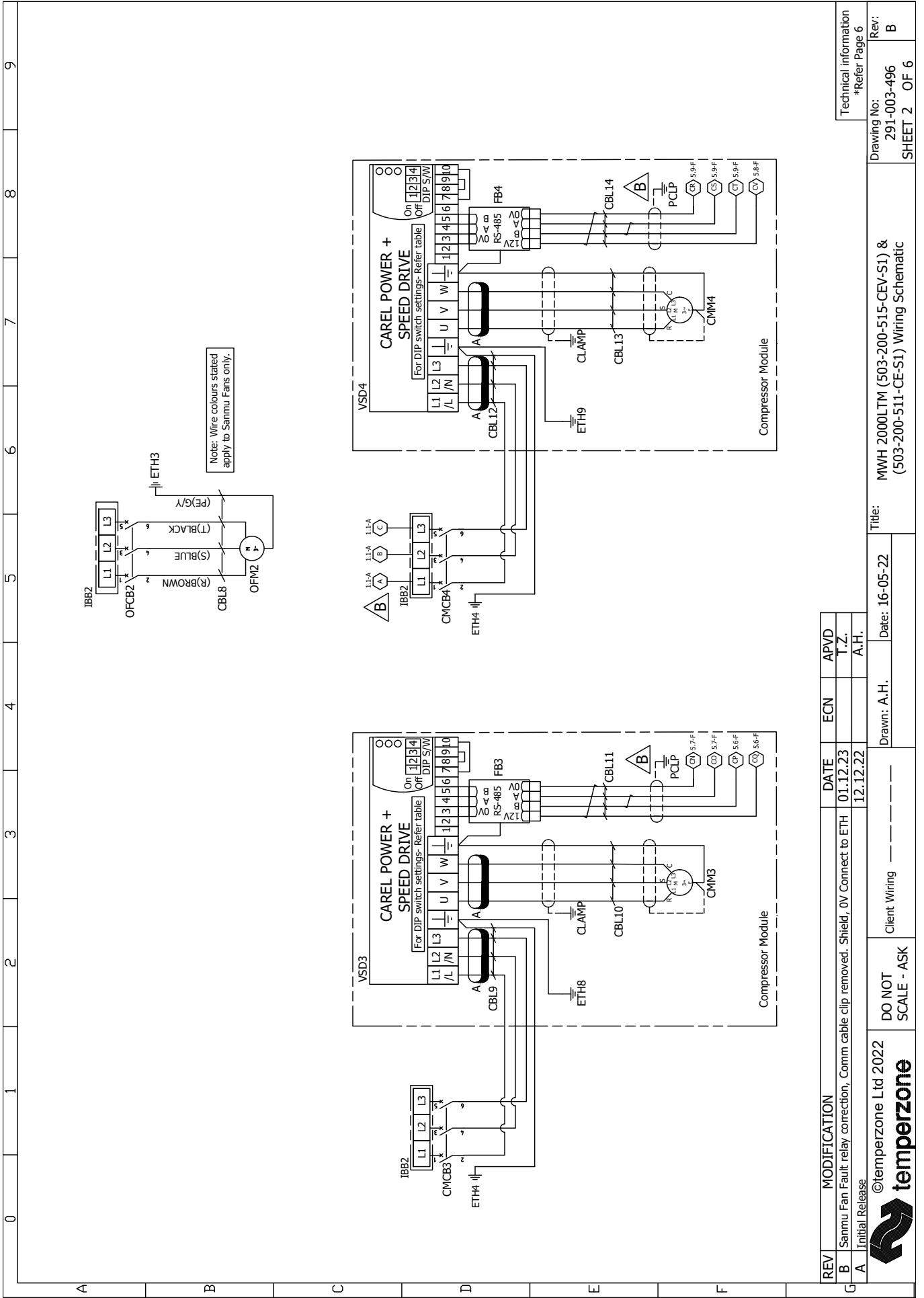
REV	MODIFICATION	DATE	ECN	APVD
B	Sanmu Fan Fault relay correction, Comm cable clip removed, Shield, 0V Connect to ETH	01.12.23		T.Z.
A	Initial Release	12.12.22		A.H.

Title: MWH 2000LTM (503-200-515-CEV-S1) & (503-200-511-CE-S1) Wiring Schematic Drawn: A.H. Date: 16-05-22	Technical information *Refer Page 6
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Client Wiring DO NOT SCALE - ASK	Drawing No: 291-003-496 SHEET 1 OF 6
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REV	MODIFICATION	DATE	ECN	APVD
B	Sannu Fan Fault relay correction, Comm cable clip removed. Shield, 0V Connect to ETH	01.12.23		T.Z.
A	Initial Release	12.12.22		A.H.

DO NOT SCALE - ASK

Client Wiring

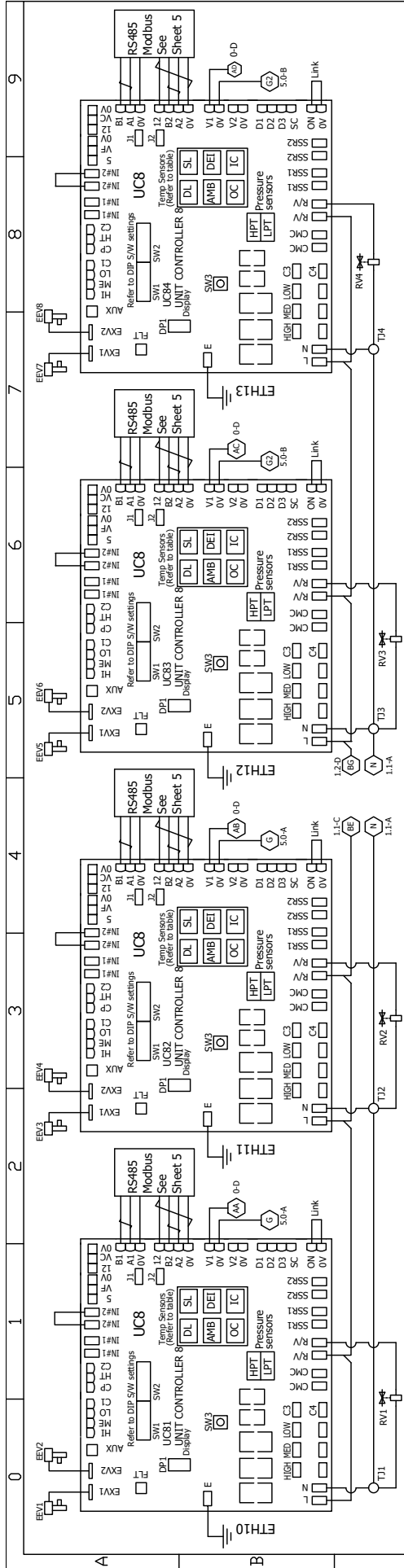
Drawn: A.H. Date: 16-05-22



Title: MWH 2000LTM (503-200-515-CEV-S1) & (503-200-511-CE-S1) Wiring Schematic

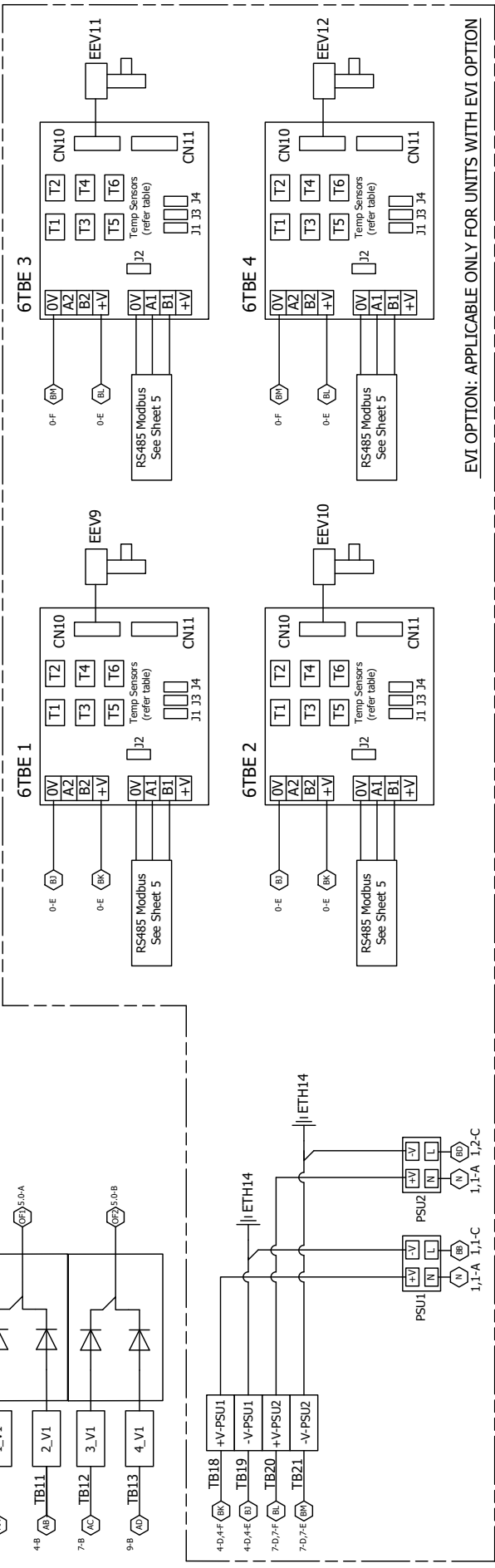
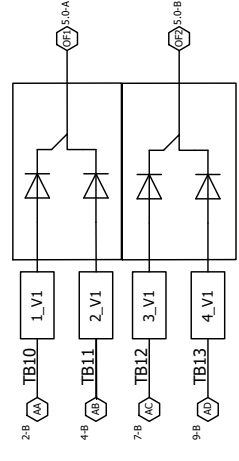
Drawing No: 291-003-496  
 SHEET 2 OF 6

Technical information  
 \*Refer Page 6



Note: Refer to the schematic to the right for the 3-way and 5-way Terminal Junction connections

OUTDOOR FAN CONTROL SIGNALS



EVI OPTION: APPLICABLE ONLY FOR UNITS WITH EVI OPTION

REV	MODIFICATION	DATE	ECN	APVD
B	Sanmu Fan Relay correction, Comm cable clip removed, Shield, 0V Connect to ETH	01.12.23	T.Z.	
A	Initial Release	12.12.22	A.H.	

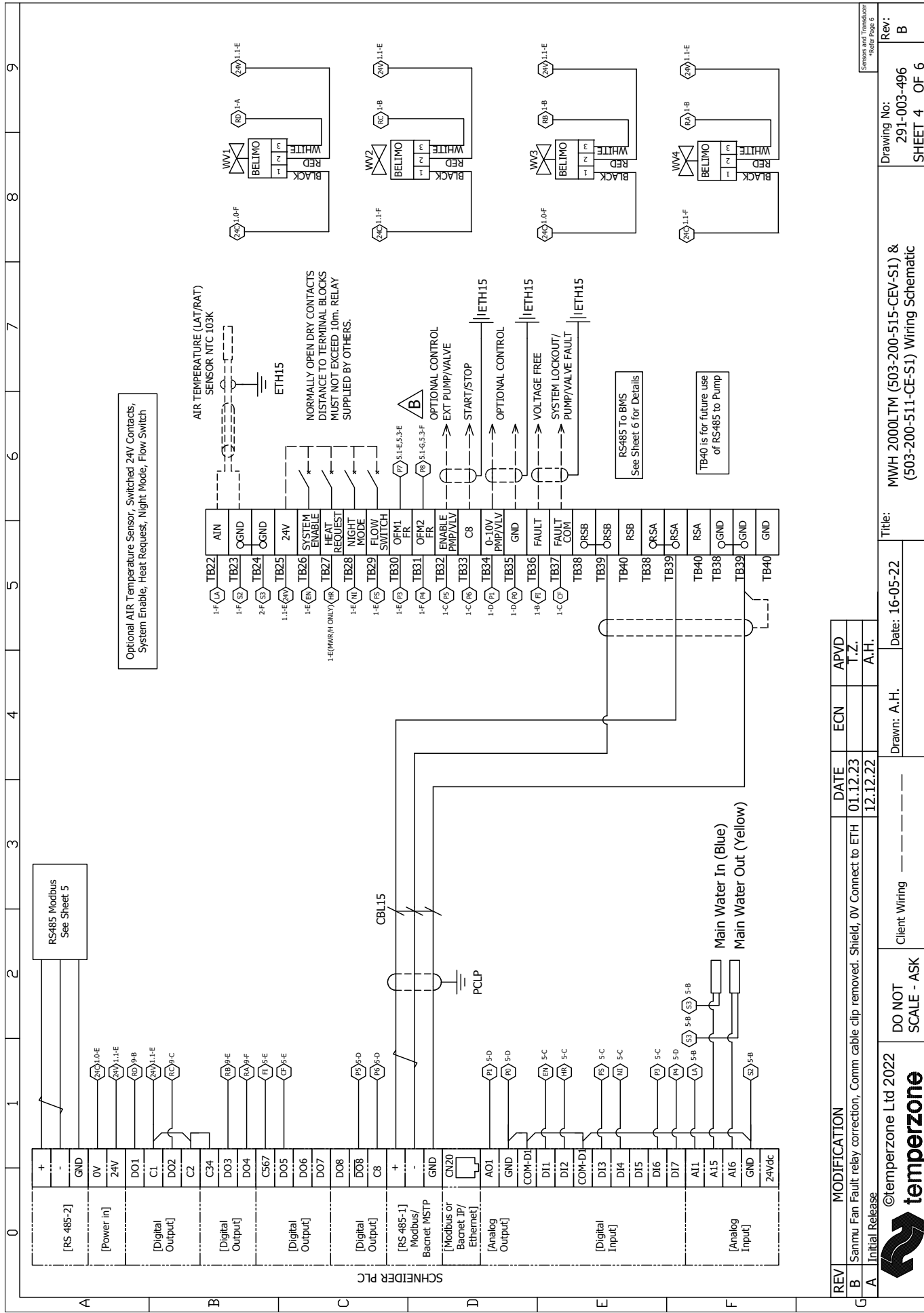
  

DO NOT SCALE - ASK	Client Wiring	Date: 16-05-22	Drawn: A.H.
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Drawing No: 291-003-496	Rev: B
SHEET 3	OF 6

Source and Transducer Refer Page 6



REV	MODIFICATION	DATE	ECN	APVD
B	Sanmur Fan Fault relay correction, Comm cable clip removed. Shield, 0V connect to ETH	01.12.23		T.Z.
A	Initial Release	12.12.22		A.H.

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Client Wiring

DO NOT SCALE - ASK

Date: 16-05-22

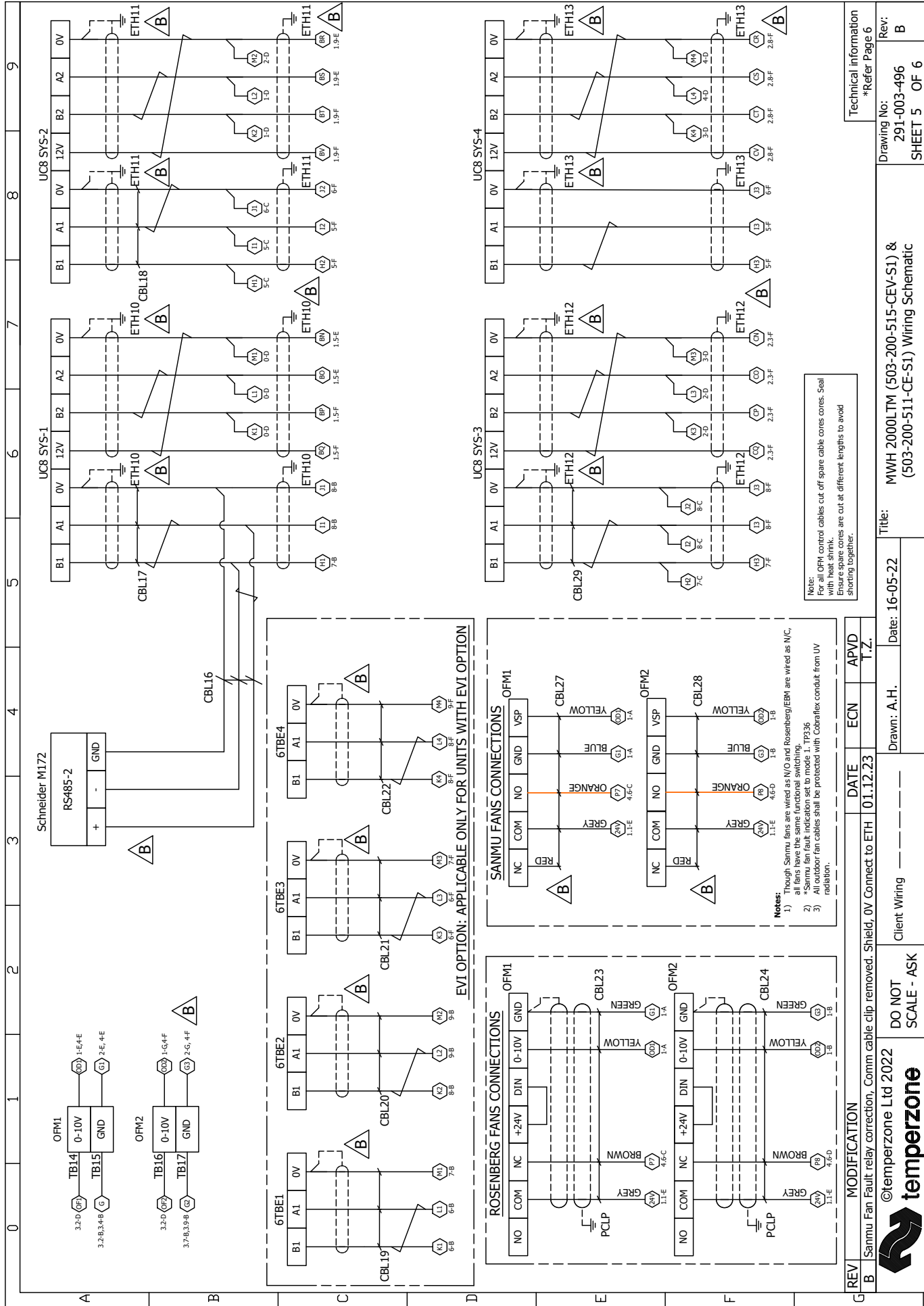
Drawn: A.H.

Title: MWH 2000LTM (503-200-515-CEV-S1) & (503-200-511-CE-S1) Wiring Schematic

Drawing No: 291-003-496  
 SHEET 4 OF 6

Rev: B

Sensors and Transducers  
 Refer Page 6



Note:  
For all OPH control cables cut off spare cable cores. Seal with heat shrink.  
Where spare cores are cut at different lengths to avoid sharing together.

Technical information  
\*Refer Page 6

Rev: B

Drawing No: 291-003-496  
SHEET 5 OF 6

Title: MWH 2000LTM (503-200-515-CEV-S1) & (503-200-511-CE-S1) Wiring Schematic

Date: 16-05-22

Drawn: A.H.

Client Wiring

DO NOT SCALE - ASK

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REV	MODIFICATION	DATE	ECN	APVD
B	Sanmu Fan Fault relay correction, Comm cable clip removed, Shield, 0V Connect to ETH	01.12.23		T.Z.

EVI OPTION: APPLICABLE ONLY FOR UNITS WITH EVI OPTION

**Notes:**  
1) Though Sanmu fans are wired as N/O and Rosenberg/EBM are wired as N/C, all fans are connected to mode 1 - TP236.  
2) A Simms box fault indicates set to mode 1 - TP236.  
3) All outdoor fan cables shall be protected with Cobanflex conduit from UV radiation.

