# BASE LOAD POWER HUB (BLPH)

## NETWORK CONNECTION DIAGRAM

## DOCUMENT NUMBER : 1724000594-IN-DG-00016

## SUPPLIER DOCUMENT NUMBER : E366772C00-ND

## DOCUMENT CLASS : 2

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CROSSWIND

ROSETTI MARINO

| REV. | DATE | DRN | CHKD | APPD | DESCRIPTION |
|---|---|---|---|---|---|
| | | | | | |
| 03 | 07/05/25 | SK | MP/AB | SC | ACCEPTED FOR CONSTRUCTION (AFC) |
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TITLE : BASE LOAD POWER HUB (BLPH)
NETWORK CONNECTION DIAGRAM
FRONT PAGE

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 1724000594-IN-DG-00016

SHEET 001

REV. 03

File Name : 1724000594-IN-DG-00016

F.to UNI A3: 420mmx297mm

# SUMMARY AND GENERAL NOTES

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## GENERAL NOTES

NOTES:

1. REFER EMCS CABINET DRAWING FOR DETAILED CONNECTIONS OF EMCS PROFINET, MODBUS TCP/IP, IEC 61850, AND SERVICE NETWORK.
2. FOR IP ADDRESS DETAILS REFER TO 1724000594-IN-RE-00043 - CYBER SECURITY SETTINGS.
3. MOUNTING OF FIREWALL FW009 WILL BE FINALIZED WITH CROSSWIND.
4. IN CCR, CONSOLE DESK SCOPE AND SIZING BY CROSSWIND.
5. FIREWALLS CAN BE USED FOR BOTH MODBUS PROTOCOL AND TIME SYCHRONIZING.

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SUMMARY AND GENERAL NOTES

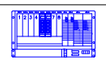
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

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# LEGEND AND ABBREVIATIONS

| SYMBOL | DESCRIPTION |
|---|---|
| | PCS/SIS/FGS VNET/IP BUS 1 |
| | PCS/SIS/FGS VNET/IP BUS 2 |
| | PIN NETWORK |
| | SERVICE NETWORK |
| | NTP CONNECTION |
| | OPC UA |
| | MODBUS TCP/IP – CCS |
| | IEC 61850 NETWORK |
| | PROFINET NETWORK FOR CCS & FOR EMCS |
| | FO PATCH CORDS (MULTI MODE) |
| | FO PATCH CORDS (SINGLE MODE) |
|  | SERVER |
|  | TIME SERVER |
|  | EMCS SERVER |
|  | FOPP |
|  | MANAGED SWITCH L2, 8 PORT GB, 2X SFP |
|  | MANAGED SWITCH L2, 24 PORT GB, 2X SFP |
|  | FIREWALL WITH 4X GE RJ45 PORTS |
|  | FIREWALL WITH 12X GE RJ45 PORTS |
|  | L2 SWITCH 24 PORT (Vnet/IP) |
|  | FIELD CONTROL STATION (FCS) |
|  | FIELD CONTROL STATION (FCS) |
|  | SAFETY CONTROL STATION (SCS) |
|  | ELECTRICAL MONITORING & CONTROL STATION (EMCS) |
|  | MANAGED SWITCH 16 PORT |
|  | WORKSTATION |
|  | PRINTER |

| ACRONYMS | DESCRIPTION |
|---|---|
| AVSVR | ANTI VIRUS SERVER |
| BCKSVR | BACKUP SERVER |
| CIP | COLLABORATIVE INFORMATION PORTAL |
| CIPO | COLLABORATIVE INFORMATION PORTAL |
| CIPOSVR | COLLABORATIVE INFORMATION PORTAL SERVER |
| CISVR | COLLABORATIVE INFORMATION SERVER |
| CNSW | CONTROL NETWORK SWITCH |
| CRPRT | COLOUR PRINTER |
| DCSVR | DOMAIN CONTROLLER SERVER |
| DMZSW | DE-MILITARIZED ZONE SWITCH |
| EWS | ENGINEERING WORK STATION |
| FCS | FIELD CONTROL STATION |
| FOPP | FIBER OPTIC PATCH PANEL |
| FW | FIREWALL |
| IAMSCLT | INSTRUMENT ASSET MANAGEMENT SYSTEM CLIENT |
| IAMSSVR | INSTRUMENT ASSET MANAGEMENT SYSTEM SERVER |
| L2 | LAYER 2 |
| NMSVR | NETWORK MANAGEMENT SERVER |
| NU | NODE UNIT |
| PIN | PLANT INFORMATION NETWORK |
| PINSW | PIN SWITCH |
| SCS | SAFETY CONTROL STATION |
| SERVFW | SERVER FIREWALL |
| SERVSW | SERVER SWITCH |
| SNSW | SAFETY NETWORK SWITCH |
| SVR | SERVER |
| SW | SWITCH |
| TMSVR | TIME SERVER |
| WSUSSVR | WINDOWS SECURITY UPDATE SERVICES SERVER |
| REWSSVR | REMOTE ENGINEERING WORKSTATION |

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LEGEND AND ABBREVIATIONS

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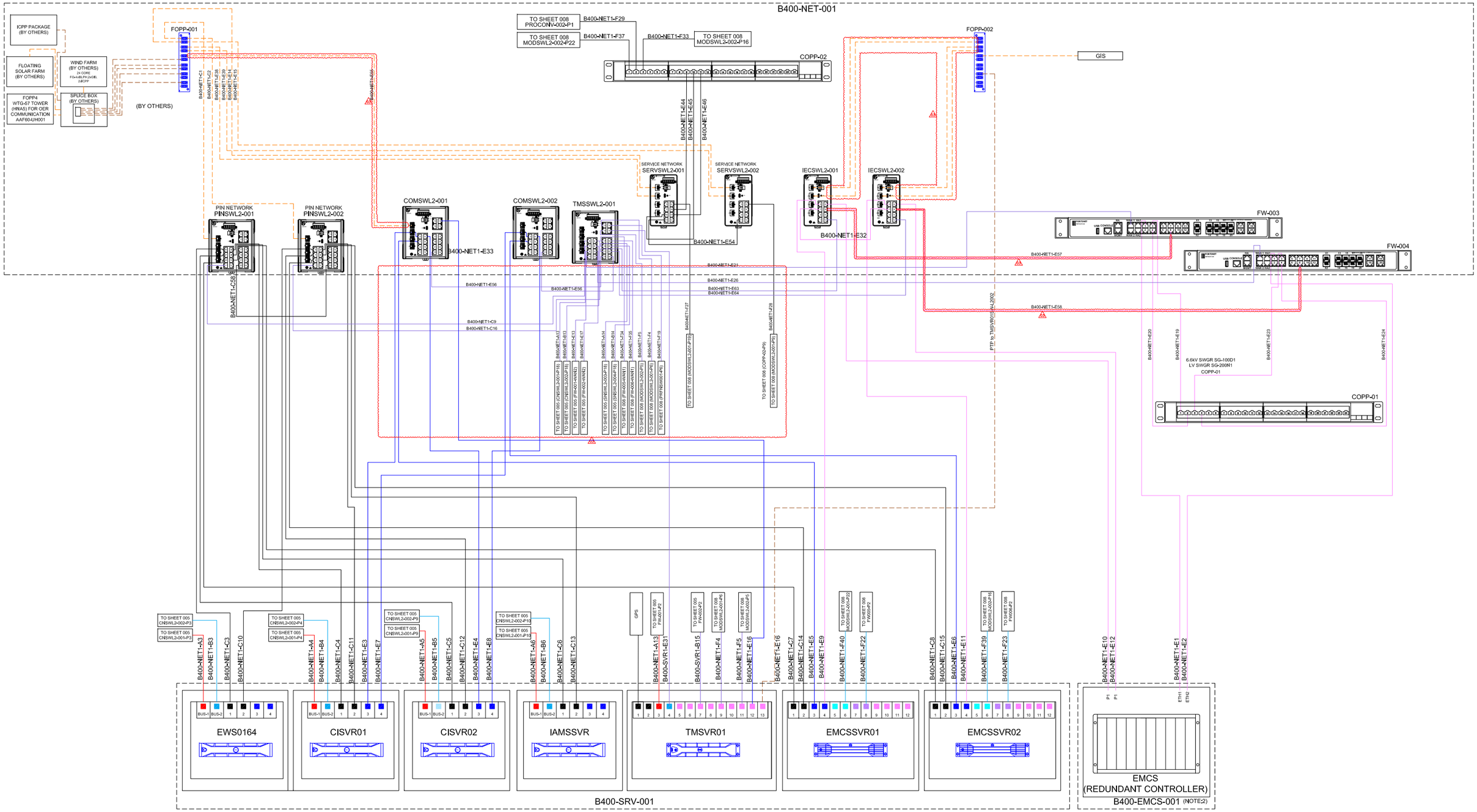
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# NETWORK CONNECTION DIAGRAM (1 of 2) - ITER AREA




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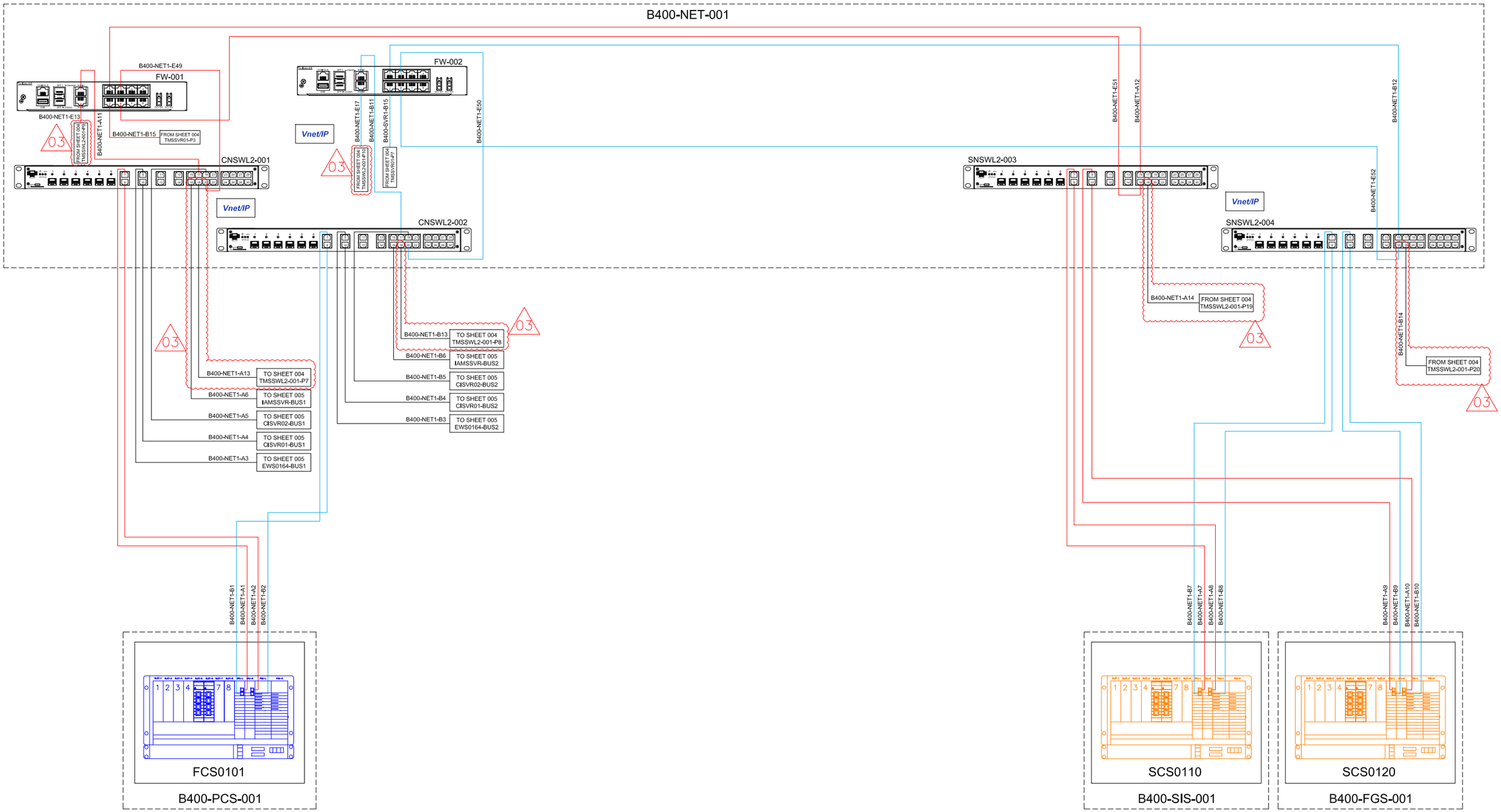
SHEET 004

REV. 03

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F.to UNI A3: 420mmx297mm

# NETWORK CONNECTION DIAGRAM (2 of 2) - ITER AREA




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NETWORK CONNECTION DIAGRAM (2 of 2) – ITER AREA

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

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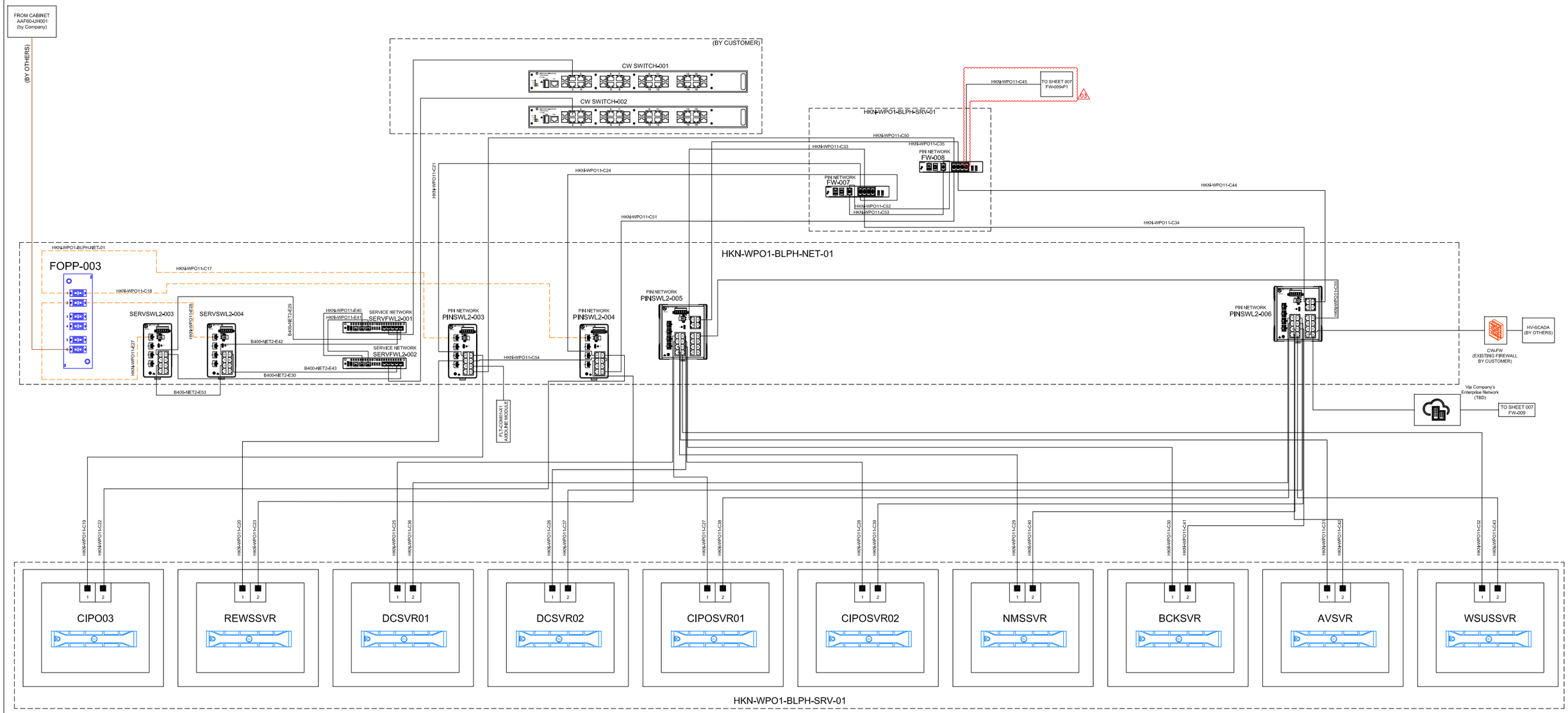
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REV. 03

File Name : 1724000594-IN-DG-00016

F.to UNI A3: 420mmx297mm

# NETWORK CONNECTION DIAGRAM - OER AREA




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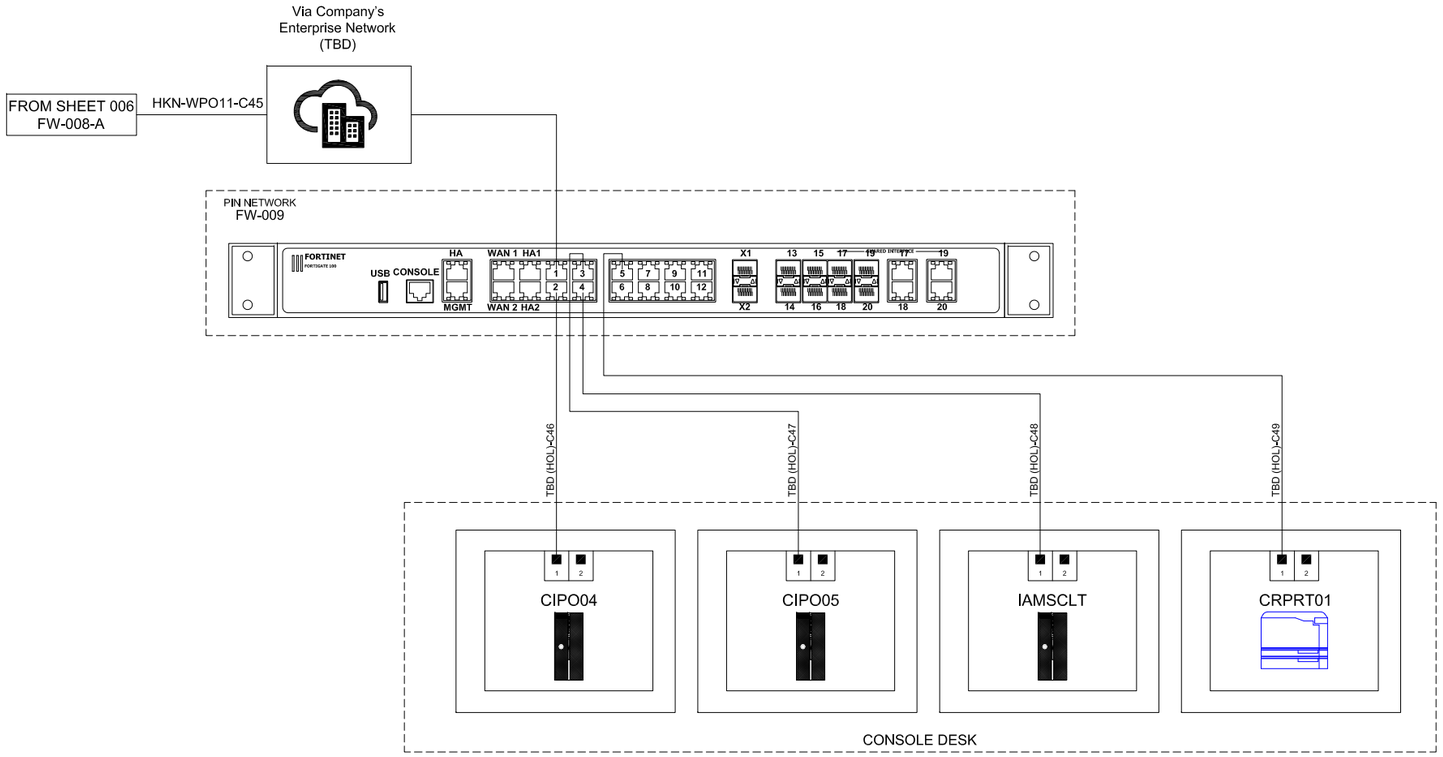
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REV. 03

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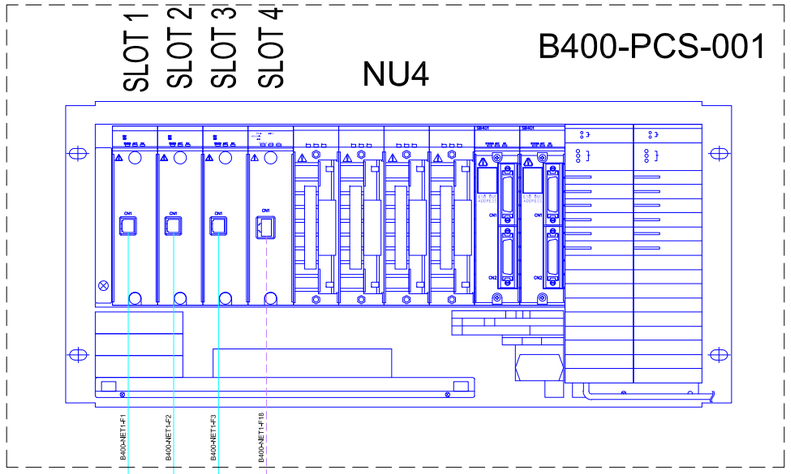
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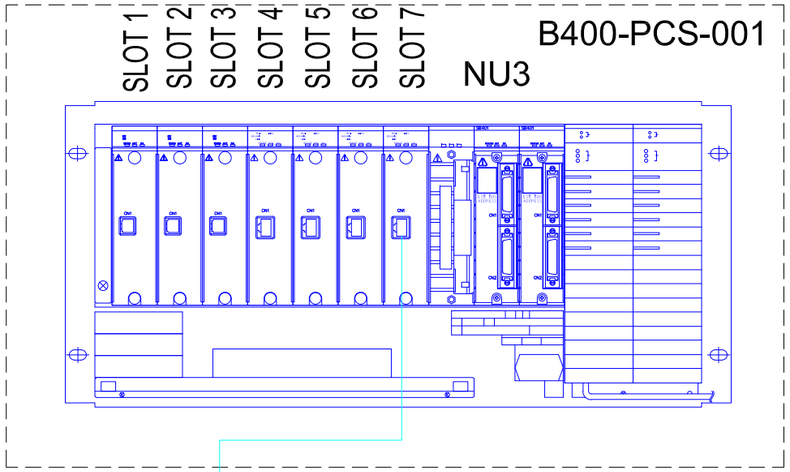
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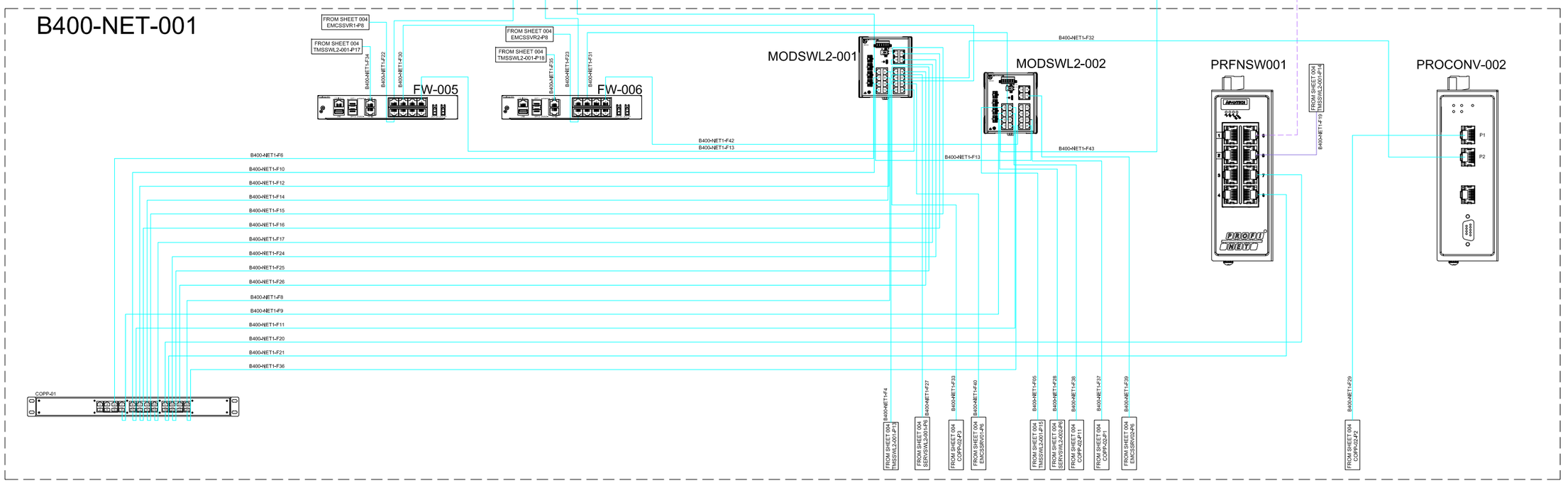
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# THIRD PARTY SYSTEM INTERFACE




03

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