

- NOTES:**
1. ABUS CABLE, APC SUPPLIED, IS BELDEN 8108 - 8 PAIR, 24 AWG, W/SHIELD. CABLE SHALL BE TERMINATED WITH AMP HDP-20 DB15F-M CONN. SEE NOTE 5.
 2. PBUS CABLE, APC SUPPLIED, IS BELDEN 8112 - 12 PAIR, 24 AWG, W/SHIELD. CABLE SHALL BE TERMINATED WITH AMP HDP-20 DB25M-M. SEE NOTE 5.
 3. CONTROL CABLE, CONTRACTOR SUPPLIED MUTICONDUCTOR CABLE. CONDUCTOR WIRE TO BE 14-18 AWG STRANDED 600V MINIMUM RATED, SHIELDED (OPTIONAL). REFER TO CABLE SCHEDULE FOR NUMBER OF CONDUCTORS.
 4. APC WILL SUPPLY FABRICATED MULTI-CONDUCTOR CABLES UPON REQUEST. ALLOW TWO WEEK MINIMUM FOR ASSEMBLY. CONTRACTOR SHALL SUPPLY REQUIRED LENGTHS.
-CONDUIT FOR ABUS IS - 2.00"
-CONDUIT FOR PBUS IS - 2.50"
 5. DRAWING DEPICTS ELECTRICAL WIRING AND IS NOT REPRESENTATIVE OF THE PHYSICAL LAYOUT. PLEASE REFER TO MECHANICAL/ELECTRICAL DRAWINGS FOR PHYSICAL LAYOUT.
 6. CONTROL HARNESS WITH CONNECTOR. Q7 CABINET TO BE PLACED TO THE LEFT OF Q8 UNLESS NOTED.
 7. REDUNDANT CABLE CONDUIT SHALL BE ROUTED IN SEPARATE CONDUIT BANKS IF POSSIBLE.
 8. FOR FUSE CONTACTS OR INDIVIDUAL STRING BREAKERS OF QUANTITY LESS THAN 4, PUT A JUMPER FOR UNUSED FUSE/BREAKER CONTACTS. 52a FUSE CONTACT OR INDIVIDUAL STRING BREAKER 52a CONNECTED TO X186 TERMINALS. CONTACTS MAY BE WIRED IN SERIES IF NOT ENOUGH INPUTS EXIST.
 9. INTERNAL WIRING HAS BEEN OMITTED. REFER TO EQUIPMENT INTERNAL WIRING SCHEMATIC FOR INTERNAL WIRING CONNECTIONS, DWG 1MWO0.E.O.S-TW.
 10. EXTERNAL EPO CIRCUIT IS CUSTOMER PROVIDED. SEPARATE 52B CONTACTS ARE NEEDED PER CONNECTION PLANE BOARD (OP0957).

LEGEND:

—————	ABUS CABLE - SUPPLIED BY APC (SEE NOTE 1)
—————	PBUS CABLE - SUPPLIED BY APC (SEE NOTE 2)
- - - - -	CONTROL CABLES - SUPPLIED BY OTHER (SEE NOTE 3)
—————	TERMINATOR/JUMPER

CABLE	SOURCE/DEST	SECTION	DEVICE	TYPE
A1	DCD-Q7	CONTROL	OP4512B	1pr18
B	EBS/OUT-SWBD			6c14
C	IN-SWBD/OUT-SWBD			12c14
B1	UPS/OUT-SWBD			1pr18
E1	DCD-Q7	CONTROL	OP4512B	A-BUS
F	EBS/OUT-SWBD			A-BUS
F1	UPS/OUT-SWBD			A-BUS
G	UPS/EBS			P-BUS
H	UPS/EBS			P-BUS

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TITLE:	SYMMETRA MW CONTROL WIRING DIAGRAM 480V, 3Ø, 1xSYMF w/ EBS (800-1600kW) UPS EBS SWITCHBOARD	DWG NO:	1MWO0.E.O.S.F4-WD	REV:	4
PROJECT:	STD SUBMITTAL DRAWINGS SHEET 1 OF 3	DRAWN:	C KRISHNA / S CUNHA	27-APR-12	PROJ ANGLE N/A
		ENGINEER:	M DESHPANDE	27-APR-12	
		APPROVED:	B SHERIDAN	27-APR-12	

DC DISCONNECT

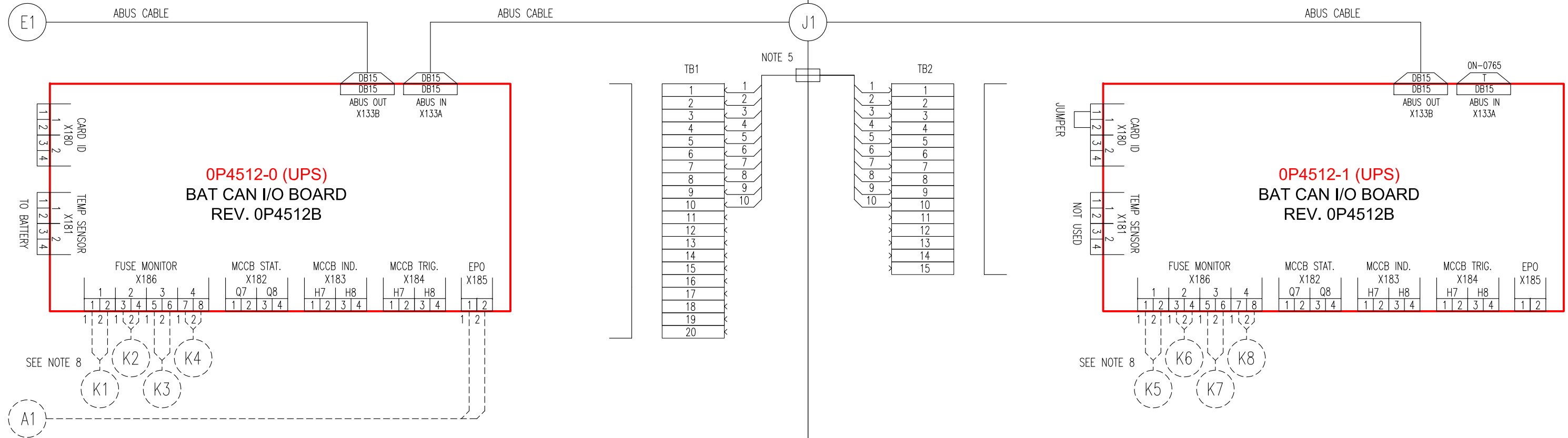
DCD-Q7

CABLE	DEST	SECTION	DEVICE	TYPE
A1	UPS-A	CONTROL	OP0957	1pr18
E1	UPS-A	CONTROL	OP0957	A-BUS
J1	DCD-Q8	CONTROL	OP4512B	A-BUS
K1	BAT CAB 1A		BREAKER	2C14
K2	BAT CAB 1B		BREAKER	2C14
K3	BAT CAB 1C		BREAKER	2C14
K4	BAT CAB 1D		BREAKER	2C14

DC DISCONNECT

DCD-Q8

CABLE	DEST	SECTION	DEVICE	TYPE
J1	DCD-Q7	CONTROL	OP4512B	A-BUS
K5	BAT CAB 2A		BREAKER	2C14
K6	BAT CAB 2B		BREAKER	2C14
K7	BAT CAB 2C		BREAKER	2C14
K8	BAT CAB 2D		BREAKER	2C14



LEGEND:

- ABUS CABLE – SUPPLIED BY APC (SEE NOTE 1 & 3)
- CONTROL CABLES – SUPPLIED BY OTHER (SEE NOTE 2)
- TERMINATOR/JUMPER

NOTES - SEE SHEET 1

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TITLE: SYMMETRA MW CONTROL WIRING DIAGRAM 480V, 3Ø, 1xSYMF w/ EBS (800-1600kW) UPS EBS SWITCHBOARD

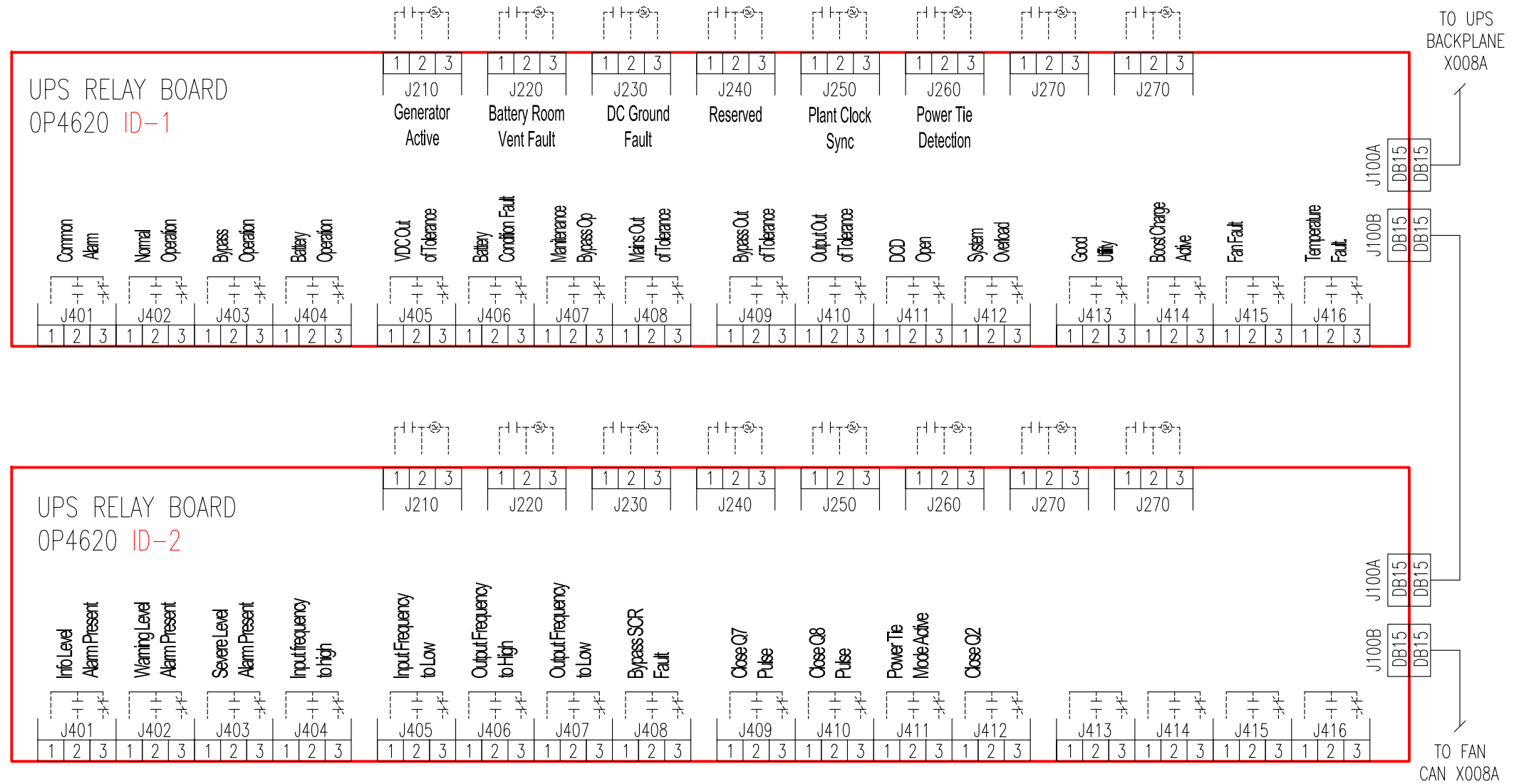
DWG NO: 1MWO0.E.O.S.F4-WD
 DRAWN: C KRISHNA / S CUNHA 27-APR-12
 ENGINEER: M DESHPANDE 27-APR-12
 APPROVED: B SHERIDAN 27-APR-12

REV. 4
 PROJ ANGLE N/A

PROJECT: STD SUBMITTAL DRAWINGS SHEET 2 OF 3

UPS (OPTIONAL RELAY CARDS)

CONTROL SECTION



The relay board can accept wetted input on pins 2 and 3, the voltage range has to be min. 12Vac/dc and max. 42.2Vac/60Vdc.

LEGEND:

- ABUS CABLE – SUPPLIED BY APC (SEE NOTE 1 & 3)
- CONTROL CABLES – SUPPLIED BY OTHER (SEE NOTE 2)
- TERMINATOR/JUMPER

NOTES - SEE SHEET 1

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TITLE: SYMMETRA MW CONTROL WIRING DIAGRAM 480V, 3Ø, 1xSYMF w/ EBS (800-1600kW) UPS EBS SWITCHBOARD
PROJECT: STD SUBMITTAL DRAWINGS SHEET 3 OF 3

DWG NO: 1MW00.E.O.S.F4-WD
DRAWN: C KRISHNA / S CUNHA 27-APR-12
ENGINEER: M DESHPANDE 27-APR-12
APPROVED: B SHERIDAN 27-APR-12

REV. 1
PROJ ANGLE N/A