

中華電力有限公司
CLP Power Hong Kong Limited

資產管理部
Asset Management Department

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11 December 2018

To: To Whom It May Concern

Our Ref L/0001/2018-11/AMD-AD

Dear Sirs/Madams,

Code of Practice 101 for Distribution Substation Design (COP101)
Update No. 2/2018 – Revision of COP101 Drawings

This letter serves to announce the revision of COP101 drawings as below:

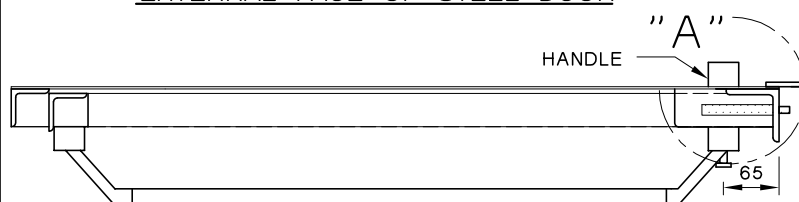
Document:	COP101 Version 14
Effective Date:	19 December 2018
Summary of Change:	<ol style="list-style-type: none"> 1. Revision of drawing - T-COP-10250-D-E33-0103-20-F-A (Detail 'F' revised) 2. Revision of drawing – T-COP-10250-D-E33-0103-22-A-A (Generally revised) 3. Revision of drawing – T-COP-10250-D-E33-0103-34-A-A (Standard lock added) 4. Revision of drawing – T-COP-10250-D-E33-0103-36-A-A (Handle added) 5. Revision of drawing – T-COP-10250-D-E33-0106-01-F-A (Additional power supply provision to AMI collector) 6. Revision of drawing - T-COP-10250-D-E33-0106-02-F-A (Additional power supply provision to AMI collector)

Yours sincerely,

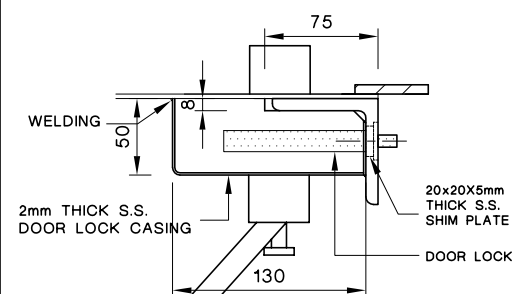


Ho Wai Ching
Asset Development Engineer

EXTERNAL FACE OF STEEL DOOR

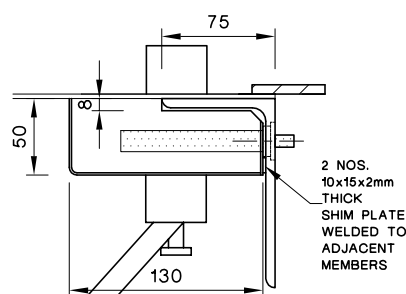


SECTION



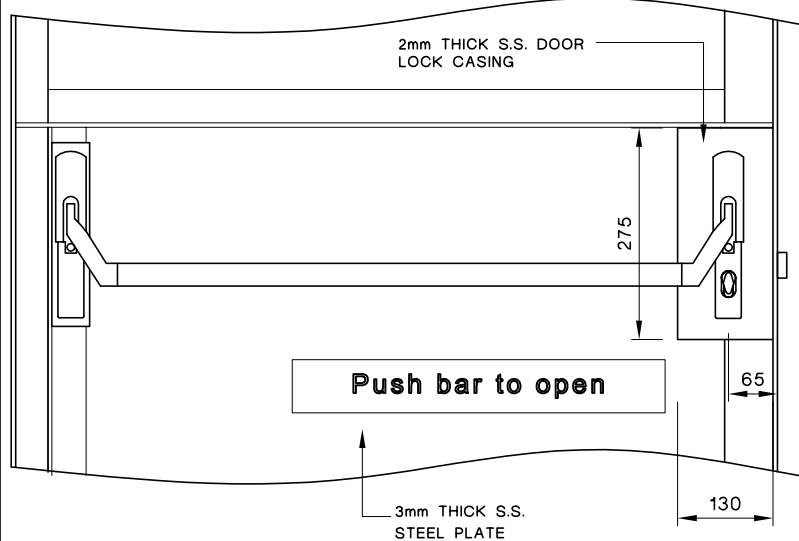
DETAIL "A"

(NOTE: Detail for 70x70x8 Angle)

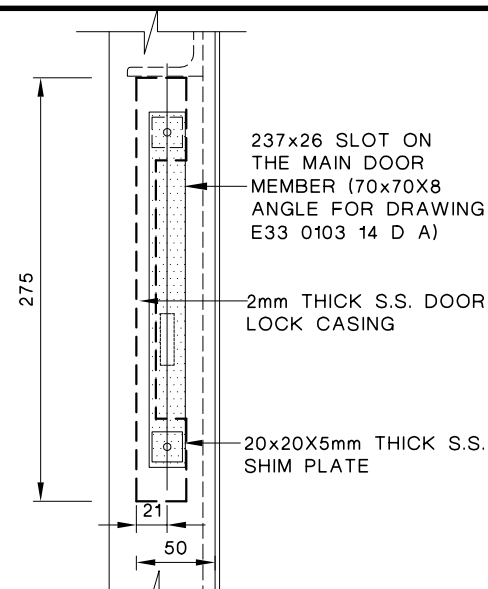


DETAIL "A"

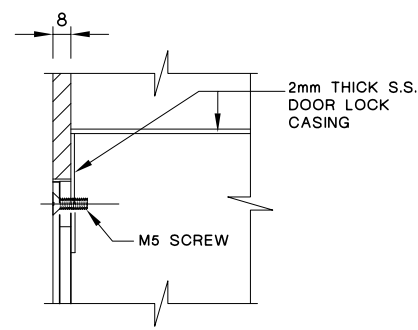
(NOTE: Detail for 125x75x6 Angle
Drawing E33 0103 20 F A)



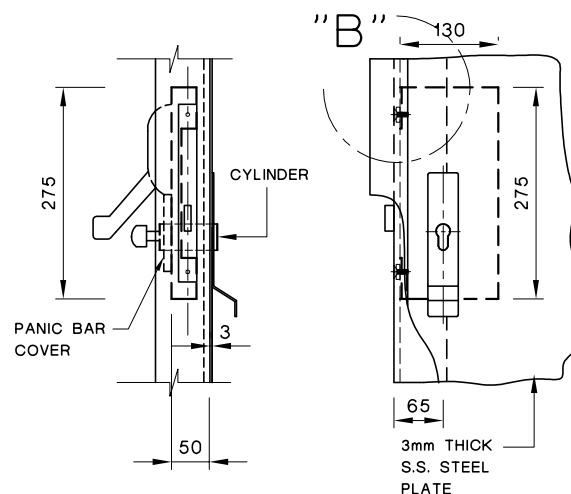
INSIDE FACE OF STEEL DOOR



INSTALLATION DETAIL FOR DOOR LOCK



DETAIL "B"



SIDE VIEW
OF DOOR LOCK

FRONT VIEW
OF DOOR LOCK

A	GENERALLY REVISED
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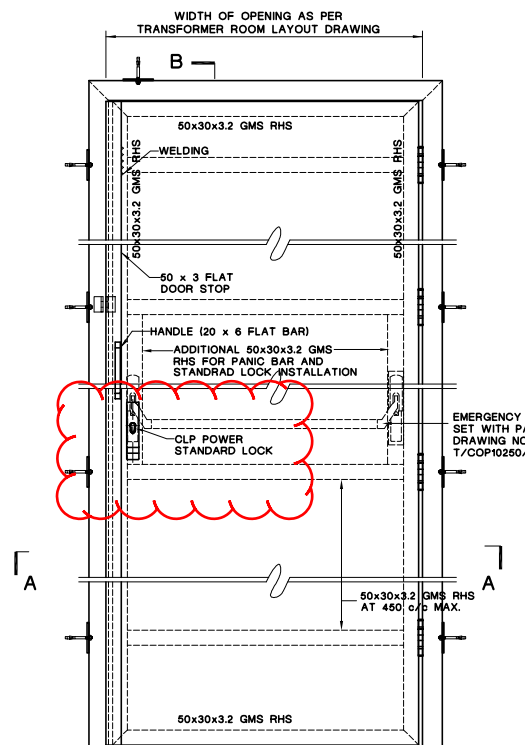
[illegible]

TITLE :

DRAWN: M. S. FONG	DATE: 13 Nov. 2018
CHECKED: M. S. FONG	APPROVED: GARY KWOK
SCALE: NTS	SHEET(S) IN SET: 1

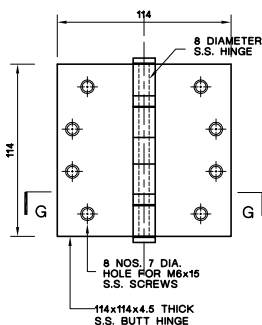
DETAILS OF EMERGENCY EXIT DEADLOCK SET WITH PANIC BAR

ASSET MANAGEMENT										DRG. NO.	T	C	O	P	1	0	2	5	0	D	E	3	3	0	1	0	3	2	2	A	A
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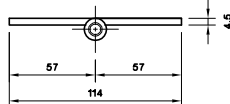


ELEVATION

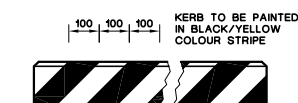
DETAIL OF S.S. BUTT HINGE



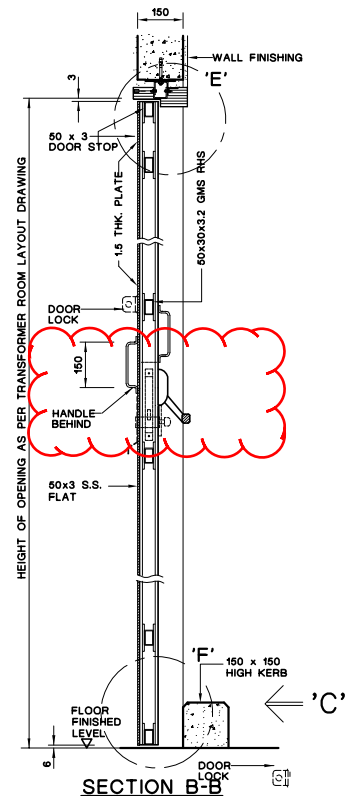
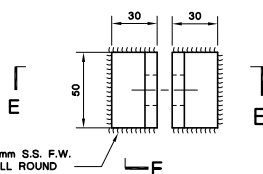
SECTION G-G



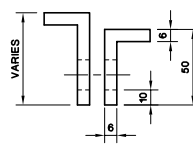
VIEW C



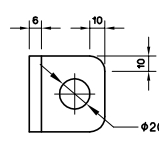
DETAIL OF DOOR LOCK



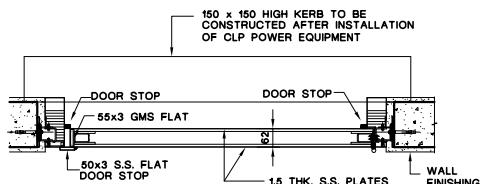
SECTION B-B



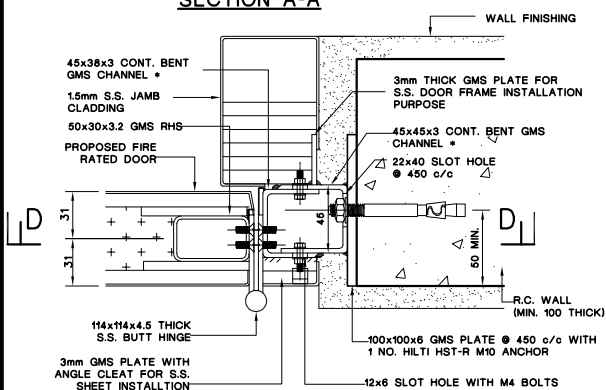
SECTION E-E



SECTION F-F



SECTION A-A

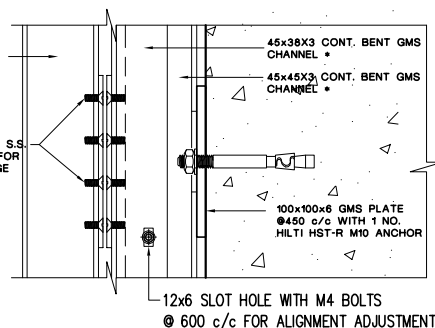


DOOR JAMB/FRAME FIXING DETAIL

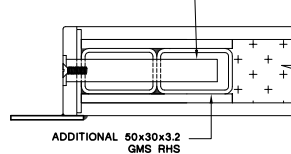
NOTES: 1. * DENOTES SIZE OF STEEL CHANNEL TO SUIT THE EXACT DIMENSION OF S.S. BUTT HINGE SCREW POSITION.
2. S.S. JAMB CLADDING SUPPORTING DETAIL SHALL BE DESIGNED BY THE CONTRACTOR.

NOTES:

- ALL CONNECTIONS FOR STAINLESS AND G.M.S. STEEL WORKS SHALL BE 3mm S.S. FILLET WELD, OR 3mm FILLET WELDED FOR G.M.S. ALL ROUND.
- ALL STEEL WORKS TO BE GRADE 316L STAINLESS STEEL OR EQUIVALENT.
- ALL STEEL WORKS MUST BE BONDED TO THE EARTHING TERMINAL AT THE DISTRIBUTION BOARD WITH COPPER CONDUCTOR NOT LESS THAN 6mm.
- ALL DIMENSIONS ARE IN mm.
- ALL DIMENSIONS, CONSTRUCTION DETAILS AND MEMBER SIZES SHOWN ARE INDICATIVE ONLY. THE DEVELOPER/CONTRACTOR IS RESPONSIBLE TO DESIGN FIRE RATED DOOR WITH DUE CONSIDERATION OF THE STRUCTURAL AND FIRE PERFORMANCE REQUIREMENTS UNDER RELATED REGULATIONS AND ENSURE THAT THE REQUIRED FIRE RESISTANCE RATING CAN BE ACHIEVED WITH FIRE CERTIFICATE AVAILABLE FOR CLPP APPROVAL.



SECTION D-D



TYPICAL DETAIL FOR STANDARD LOCK

A STANDARD LOCK ADDED



REVS.	18.10.18													
INITIAL	A	B	C	D	E	F	G	H	J	K	L			

TITLE :
FOR FIRE RATED DOOR WITH INSULATION
TYPICAL DETAILS OF SINGLE LEAF LAMINATED
STEEL DOOR

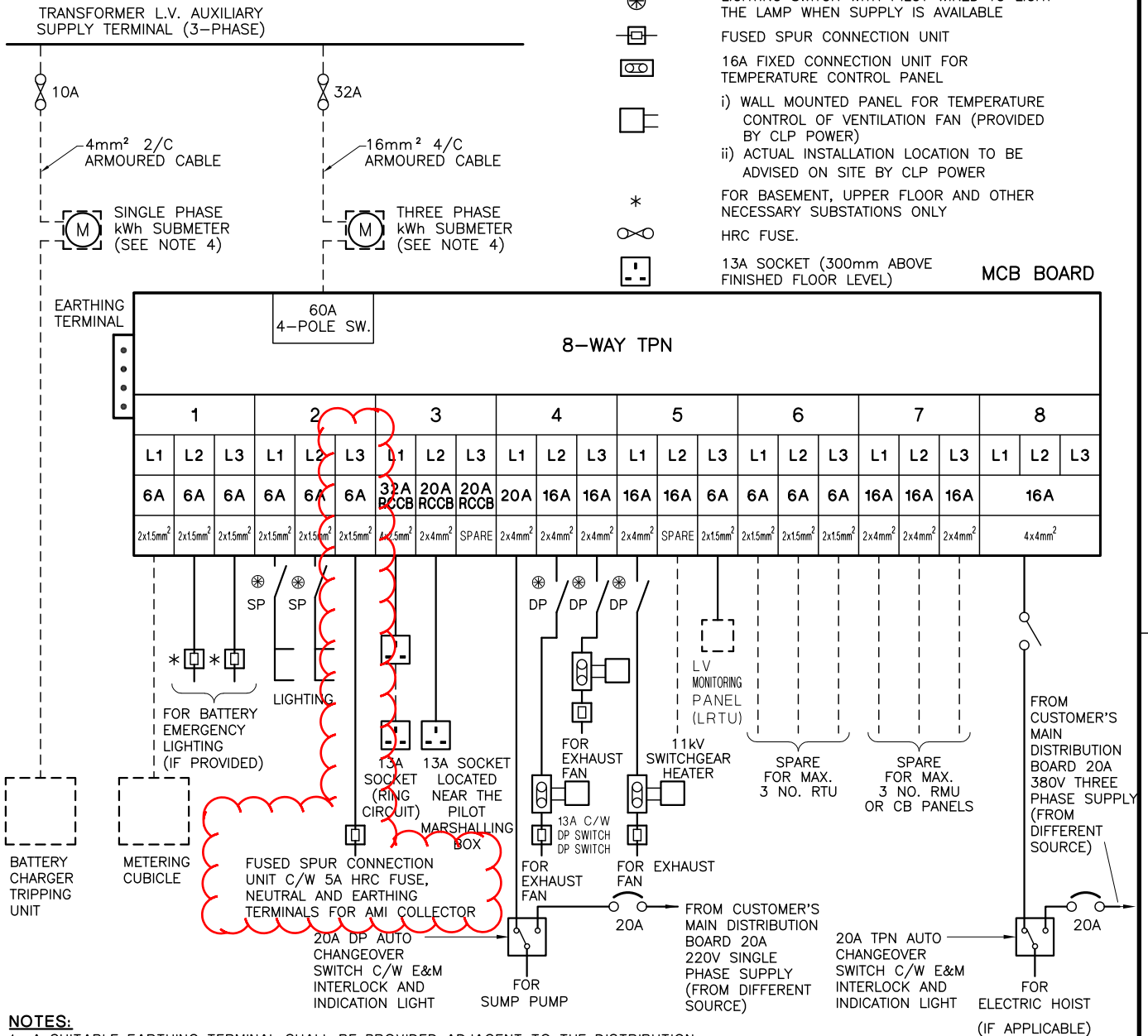
DRAWN: FONG, MING SUM	DATE: 01-03-2016
CHECKED: FONG, MING SUM	APPROVED: GARY KWOK
SCALE: AS SHOWN	SHEET(S) IN SET:

ASSET MANAGEMENT DRG. NO. T C O P 1 0 2 5 0 D E 3 3 0 1 0 3 3 4 A A

LEGEND:

- TO BE INSTALLED BY CLP POWER
- TO BE INSTALLED BY CUSTOMER IN GALVANISED IRON (G.I.) CONDUIT SYSTEM
- ⊗ LIGHTING SWITCH WITH PILOT WIRED TO LIGHT THE LAMP WHEN SUPPLY IS AVAILABLE
- ⊞ FUSED SPUR CONNECTION UNIT
- ⊞ 16A FIXED CONNECTION UNIT FOR TEMPERATURE CONTROL PANEL
- i) WALL MOUNTED PANEL FOR TEMPERATURE CONTROL OF VENTILATION FAN (PROVIDED BY CLP POWER)
- ii) ACTUAL INSTALLATION LOCATION TO BE ADVISED ON SITE BY CLP POWER
- * FOR BASEMENT, UPPER FLOOR AND OTHER NECESSARY SUBSTATIONS ONLY
- ⊞ HRC FUSE.
- ⊞ 13A SOCKET (300mm ABOVE FINISHED FLOOR LEVEL)

MCB BOARD



NOTES:

- A SUITABLE EARTHING TERMINAL SHALL BE PROVIDED ADJACENT TO THE DISTRIBUTION BOARD FOR CONNECTING ALL EXPOSED CONDUCTIVE PARTS VIA APPROPRIATE PROTECTIVE CONDUCTORS.
- ALL EXTRANEOUS CONDUCTIVE PARTS SUCH AS STEEL DOOR FRAME, EXHAUST DUCT, LOUVRE AND PIPEWORK OF FIRE SERVICES INSTALLATION ETC., SHALL ALSO BE CONNECTED TO THE EARTHING TERMINAL WITH A COPPER CONDUCTOR NOT LESS THAN 6mm².
- FOR MULTI TRANSFORMER SUBSTATIONS, ADDITIONAL 13A FUSED SPUR FOR EXHAUST FAN(S) SHALL BE CONNECTED ON SEPARATE FINAL CIRCUIT.
- kWh SUBMETERS WILL BE INSTALLED ADJACENT TO MCB BOARD IF THE SUBSTATION SUPPLY IS METERED AT 11kV.
- LIGHTING SWITCH AND 13A SOCKET TO BE POSITIONED AT 1350mm AND 300mm FROM FLOOR LEVEL RESPECTIVELY.
- MCB UNIT SHALL COMPLY TO BS EN60898 TYPE C AND BREAKING CAPACITY NOT LESS THAN 10kA.
- MCB BOARD WITH DUSTPROOF DOOR AND COMPLIES TO IEC60439/BS5486
- RCCB SENSITIVITY 30mA
- PHASE IDENTIFICATION & COLOUR CODE OF WIRING CABLES SHALL COMPLY TO THE COLOUR CODE REQUIREMENTS OF EMSD WITH EFFECTIVE FROM 1 JULY 2007
- FUSED SPUR UNIT FOR AMI COLLECTOR TO BE POSITION AT 1350mm FROM FLOOR LEVEL AND NEXT TO THE MCB DISTRIBUTION BOARD.

F	POWER SUPPLY TO AMI COLLECTOR UPDATED
E	POWER SUPPLY TO ELECTRIC HOIST, EXHAUST FAN UPDATED.
D	MAIN SW. RATING & 13A SOCKET RING CIRCUIT REVISED
C	PHASE IDENTIFICATION UPDATED
B	LRTU ADDED
A	CIRCUIT REVISIONS

CLP 中電

REV.	13.09.04	21.12.05	09.08.07	12.10.09	18.03.14	18.10.18						
INITIAL	A	B	C	D	E	F	G	H	J	K	L	
	K.C.C.	K.C.C.	K.C.C.	K.C.C.	H.T.YU	H.T.YU						

TITLE :

LV SCHEMATIC DIAGRAM FOR DISTRIBUTION SUBSTATION (WITH TRANSFORMER AND 11kV SWITCHGEAR)

DRAWN: S. C. TO DATE: 23-07-2002
 CHECKED: K. C. CHENG APPROVED: W. C. HO
 SCALE: N. T. S. SHEET(S) IN SET:

ASSET MANAGEMENT

DRG. NO. T C O P 1 0 2 5 0 D E 3 3 0 1 0 6 0 1 F A

LEGEND:

NORMAL SUPPLY TO BE INSTALLED BY CLP POWER

STANDBY SUPPLY TO BE INSTALLED BY CUSTOMER IN GALVANISED IRON (G.I.) CONDUIT SYSTEM



LIGHTING SWITCH WITH PILOT WIRED TO LIGHT THE LAMP WHEN SUPPLY IS AVAILABLE



FUSED SPUR CONNECTION UNIT



16A FIXED CONNECTION UNIT FOR TEMPERATURE CONTROL PANEL



i) WALL MOUNTED PANEL FOR TEMPERATURE CONTROL OF VENTILATION FAN (PROVIDED BY CLP POWER)

ii) ACTUAL INSTALLATION LOCATION TO BE ADVISED ON SITE BY CLP POWER



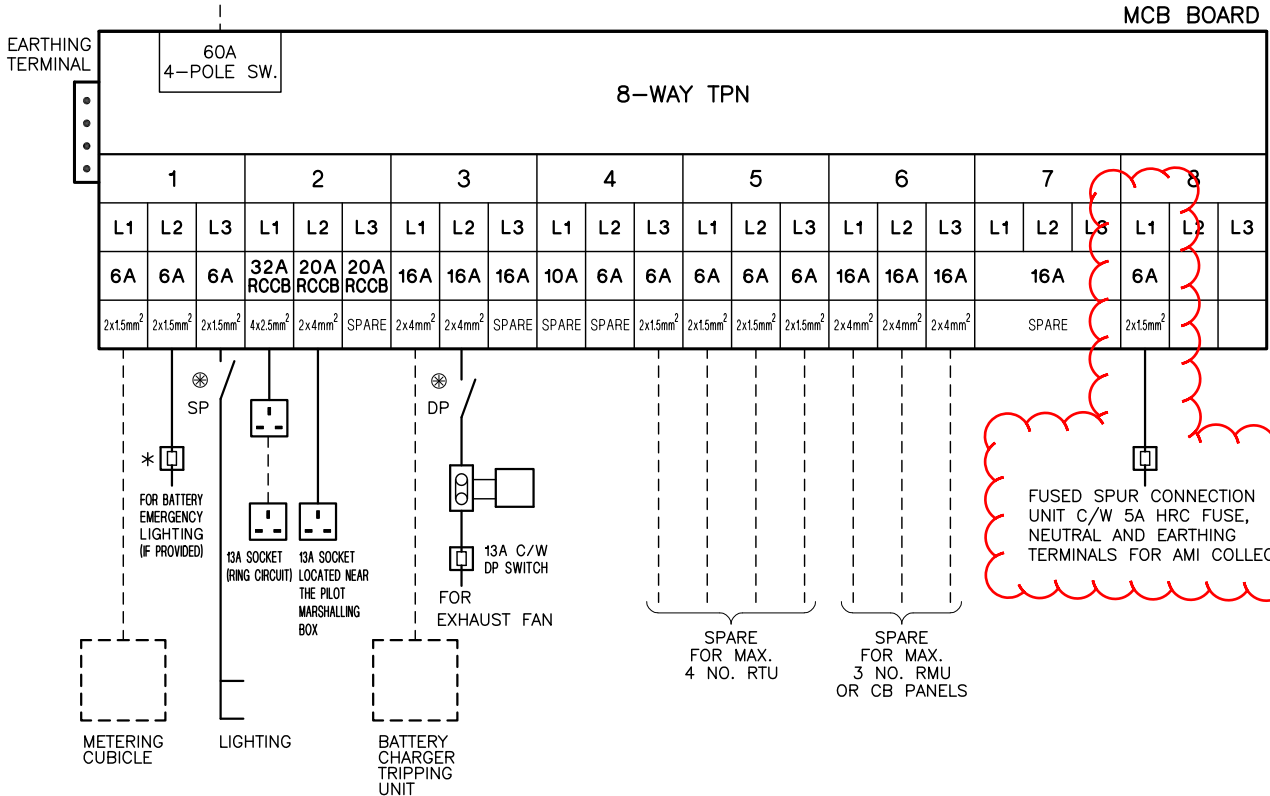
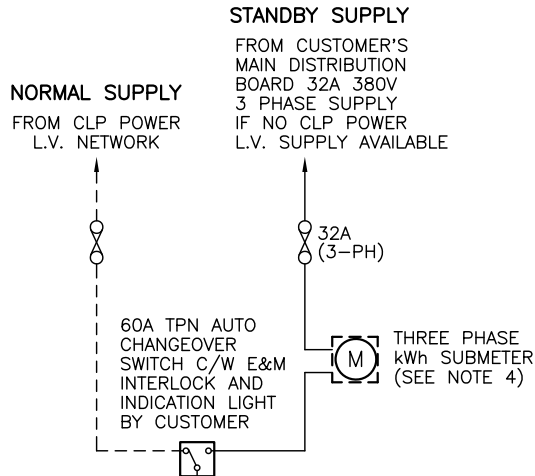
FOR BASEMENT, UPPER FLOOR AND OTHER NECESSARY SUBSTATIONS ONLY



HRC FUSE.



13A SOCKET (300mm ABOVE FINISHED FLOOR LEVEL)



NOTES:

1. A SUITABLE EARTHING TERMINAL SHALL BE PROVIDED ADJACENT TO THE DISTRIBUTION BOARD FOR CONNECTING ALL EXPOSED CONDUCTIVE PARTS VIA APPROPRIATE PROTECTIVE CONDUCTORS.
2. ALL EXTRANEIOUS CONDUCTIVE PARTS SUCH AS STEEL DOOR FRAME, EXHAUST DUCT, LOUVRE AND PIPEWORK OF FIRE SERVICES INSTALLATION ETC., SHALL ALSO BE CONNECTED TO THE EARTHING TERMINAL WITH A COPPER CONDUCTOR NOT LESS THAN 6mm².
3. LIGHTING SWITCH AND 13A SOCKET TO BE POSITIONED AT 1350mm AND 300mm FROM FLOOR LEVEL RESPECTIVELY.
4. kWh SUBMETERS WILL BE INSTALLED ADJACENT TO MCB BOARD.
5. MCB UNIT SHALL COMPLY TO BS EN60898 TYPE C AND BREAKING CAPACITY NOT LESS THAN 10kA.
6. MCB BOARD WITH DUSTPROOF DOOR COMPLIES TO IEC60439/BS5486.
7. RCCB SENSITIVITY 30mA
8. PHASE IDENTIFICATION & COLOUR CODE OF WIRING CABLES SHALL COMPLY TO THE COLOUR CODE REQUIREMENTS OF EMSD WITH EFFECTIVE FROM 1 JUL 2007.
9. FUSED SPUR UNIT FOR AMI COLLECTOR TO BE POSITION AT 1350mm FROM FLOOR LEVEL AND NEXT TO THE MCB DISTRIBUTION BOARD.

F	POWER SUPPLY TO AMI COLLECTOR UPDATED
E	DETAIL OF CHANGEOVER FACILITY UPDATED.
D	CHANGEOVER FACILITY ADDED
C	MAIN SW. RATING & 13A SOCKET RING CIRCUIT REVISED
B	PHASE IDENTIFICATION UPDATED
A	LEGEND DESCRIPTION CHANGE



REVS.	13.09.04	09.08.07	12.10.09	26.03.12	18.03.14	18.10.18					
INITIAL	A	B	C	D	E	F	G	H	J	K	L
	K.C.C.	K.C.C.	K.C.C.	K.C.C.	H.T.YU	H.T.YU					

TITLE :

LV SCHEMATIC DIAGRAM FOR 11kV SWITCHROOM

DRAWN:	S. C. TO	DATE:	23-07-2002
CHECKED:	K. C. CHENG	APPROVED:	W. C. HO
SCALE:	N. T. S.	SHEET(S) IN SET:	

ASSET MANAGEMENT

DRG. NO. T C O P 1 0 2 5 0 D E 3 3 0 1 0 6 0 2 F A