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# Distribution Substation Manual (DSM)

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## **Section 6 - Miscellaneous**



July 2015

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Document title	Miscellaneous
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Revision History				
Edition/Revision Number	Issue Date	Description	Endorsed By	Approved By
First Edition	June 1997	Distribution Substations Manual (DSM) issued	NA	NA
Second Edition	February 2002	Revised from First Edition	Ed Wilcox	Robert Rogerson
Third Edition	March 2007	DSM split into 10 Sections – Introduction and Sections 1 to 9	Sandeep Magan	Robert Rogerson
Fourth Edition	December 2008 July 2010	Modified DSM 6-04. Added DSM 6-06, 6-07, 6-08. Modified DSM 6-06 sheet 1	Sandeep Magan	Robert Rogerson
Fifth Edition	July 2015	Drawing format amended to include revision information and reference to WADCM. Removed F34 plywood references.	Revana Boodhraj	Herman Du Plessis

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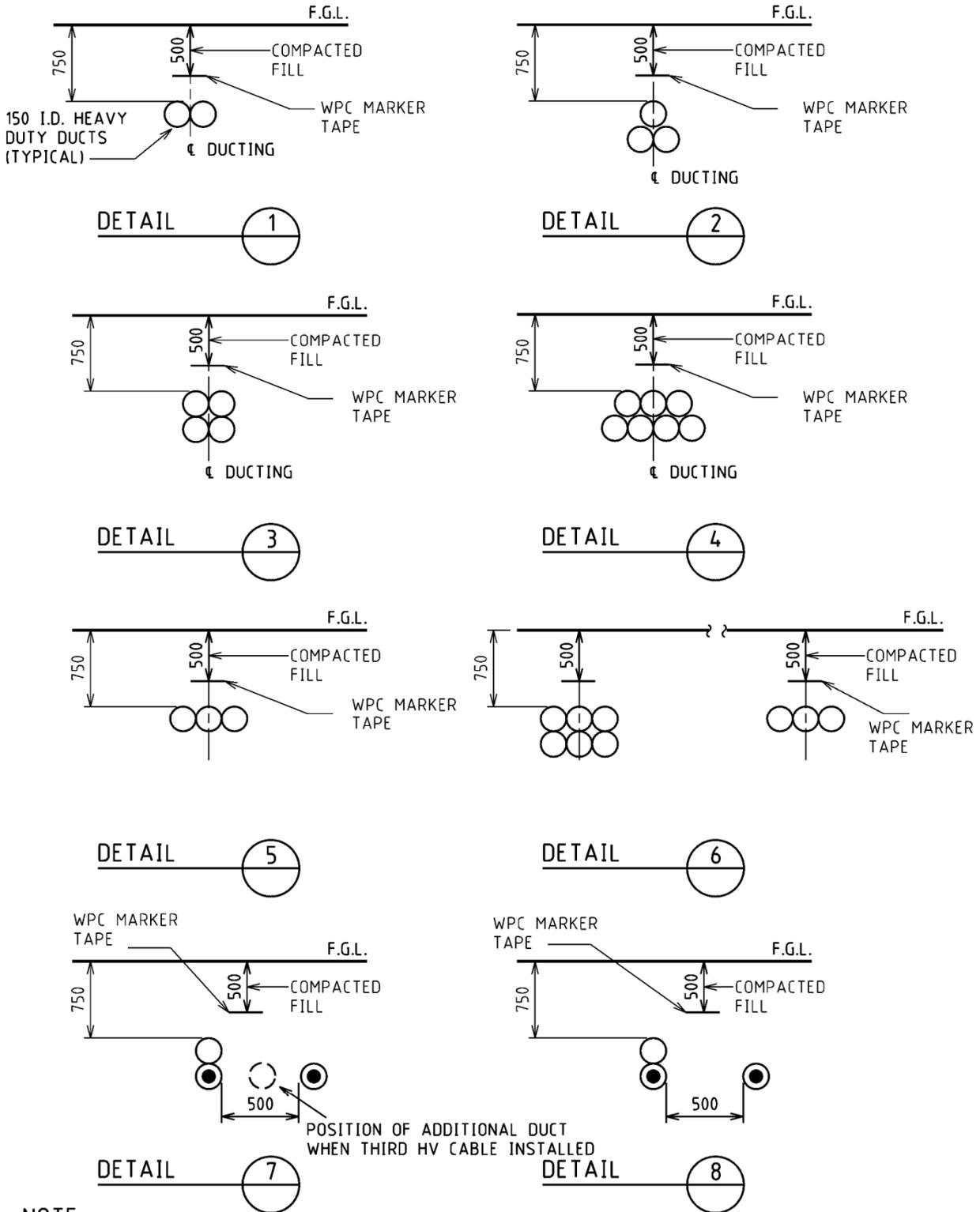
#### Fifth edition July 2015

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# 6 Miscellaneous

## Index Of Drawings

DRAWING NUMBER	DRAWING TITLE
DSM-6-01	Substation Ducting Cross Sections - Civil Requirements
DSM-6-02	Substation Exhaust Fans - Details
DSM-6-03	Substation Exhaust Fan Sub-Distribution Board For Indoor Substation - Schematic
DSM-6-04	Schneider RM6 Switchgear Indoor Installation – Installation Details
DSM-6-05	Transformer Lifting Details - Lifting Eyes And Monorail
DSM-6-06	Schneider RM6 Switchgear Earthing Connections
DSM-6-07	Schneider RM6 Switchgear Support Beam Fabrication Details
DSM-6-08	Schneider RM6 Switchgear Indoor Base Frame Fixing Details

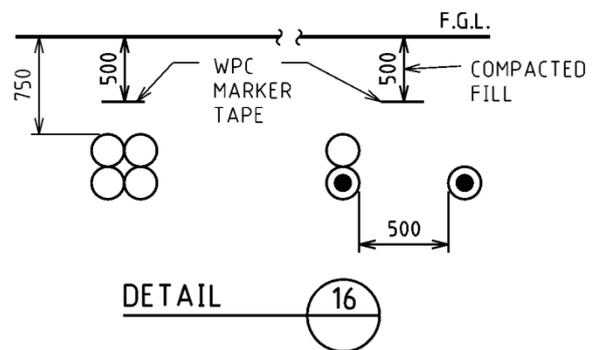
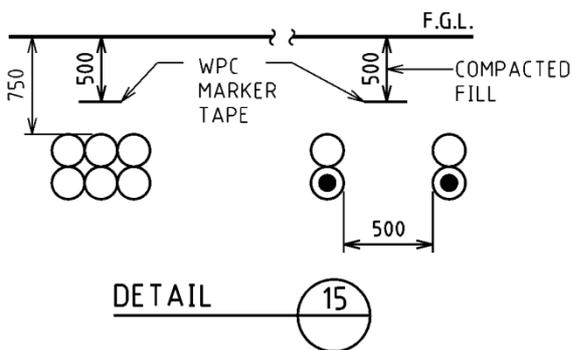
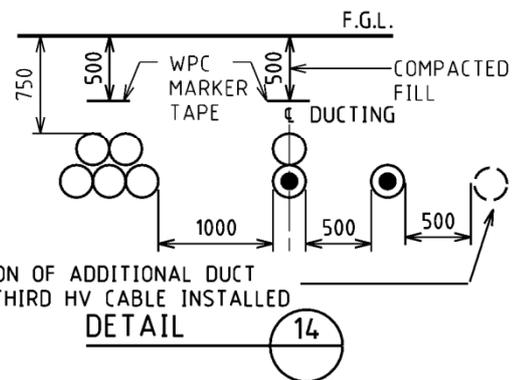
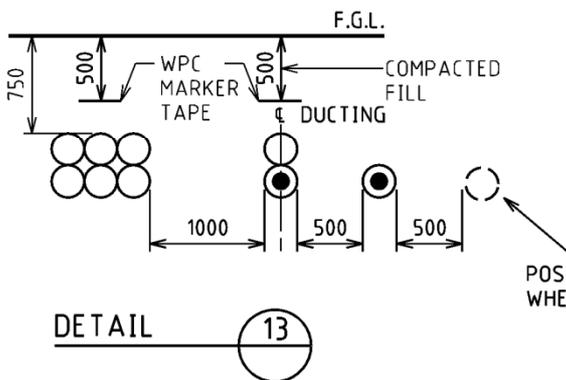
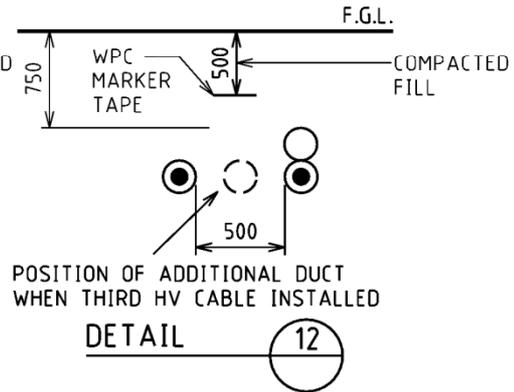
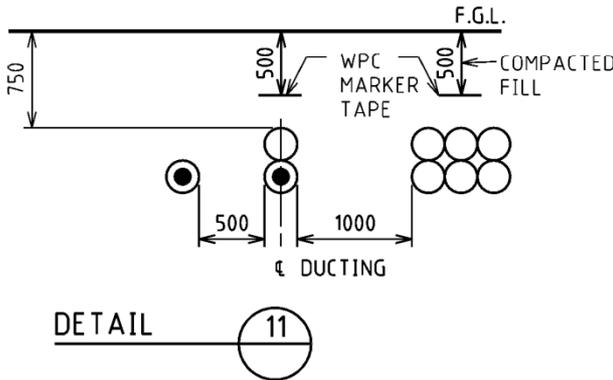
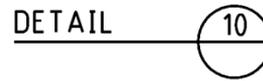
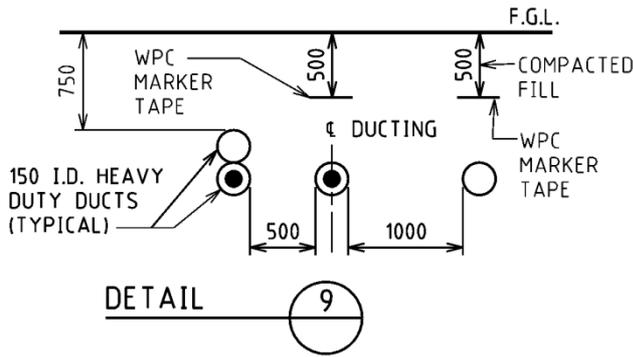


**NOTE:**

1. ALL CABLES TO BE ENCLOSED IN HEAVY-DUTY INSULATING CONDUIT AS PER AS/NZS 3000:2007 - (CLAUSE 3.11.3.1 (CATEGORY 'A' UNDERGROUND WIRING SYSTEMS))
2. DEPTH OF DUCTS FOR BOTH HV & LV UNDERGROUND CABLE TO BE 750mm FROM F.G.L. TO TOP OF DUCT.

*THIS DRAWING TO BE READ IN CONJUNCTION WITH THE WESTERN AUSTRALIAN DISTRIBUTION CONNECTIONS MANUAL*

				TITLE		DISTRIBUTION SUBSTATION MANUAL		westernpower	
				SUBSTATION DUCTING CROSS-SECTIONS CIVIL REQUIREMENTS		DRAWN JRR DATE 28-07-2014		ORG No	
						CHECKED YL SCALE NTS		DSM-6-01	
						APPROVED		REV D SHT 1/2	
						ERIC JONG			
REV No	DATE	DESCRIPTION	CHEK	APRO					
D	29 07 2014	FORMAT CHANGED	YL	EJ					
C	05 05 2008	ORIGINAL ISSUE							

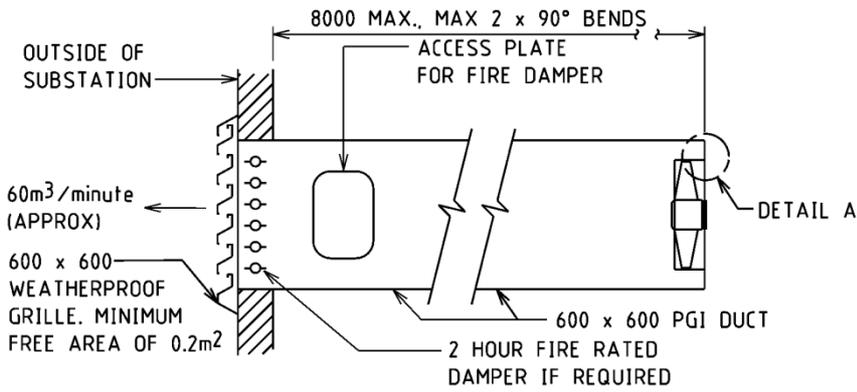


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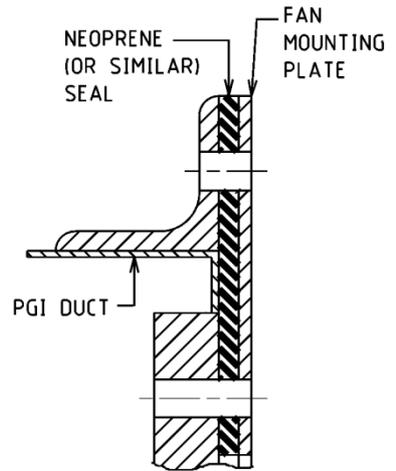
- ALL CABLES TO BE ENCLOSED IN HEAVY-DUTY INSULATING CONDUIT AS PER AS/NZS 3000:2007 - CLAUSE 3.11.3.1 (CATEGORY 'A' UNDERGROUND WIRING SYSTEMS)
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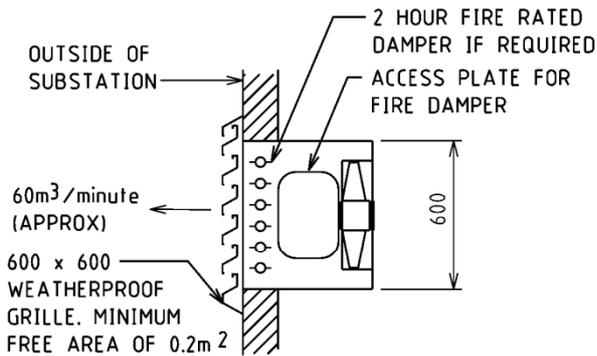
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				SUBSTATION DUCTING CROSS-SECTIONS CIVIL REQUIREMENTS		DRAWN JRR DATE 29-07-2014 DRG No			
						CHECKED YL SCALE NTS		DSM-6-01	
						APPROVED ERIC JONG DATE 30-07-2014		REV 0 SHT 2/2	
REV No	DATE	DESCRIPTION	CHEK	APRD					
D	30 07 2014	FORMAT CHANGED	YL	EJ					
C	05 05 2008	ORIGINAL ISSUE							



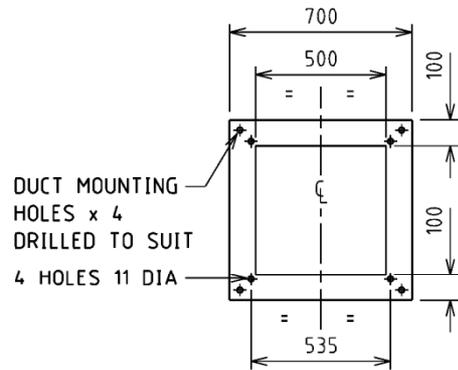
**TYPE 1 - END DUCT MOUNTED EXHAUST FAN**  
SIDE VIEW



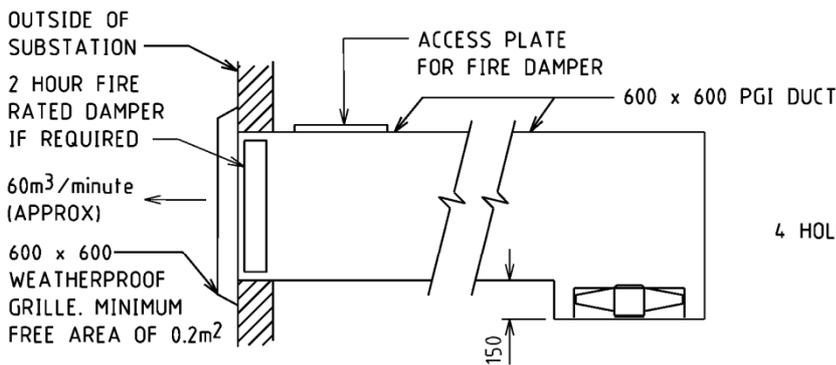
**DETAIL A**



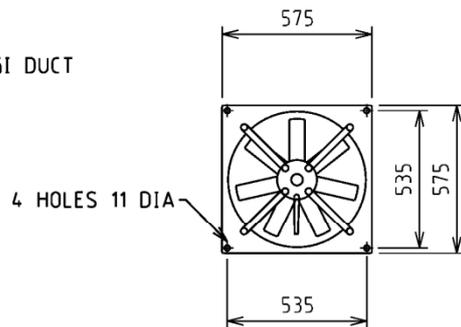
**TYPE 2 - WALL MOUNTED EXHAUST FAN**  
SIDE VIEW



**FAN MOUNTING PLATE**  
MATERIAL: MS PLATE



**TYPE 3 - SIDE DUCT MOUNTED EXHAUST FAN**  
PLAN VIEW



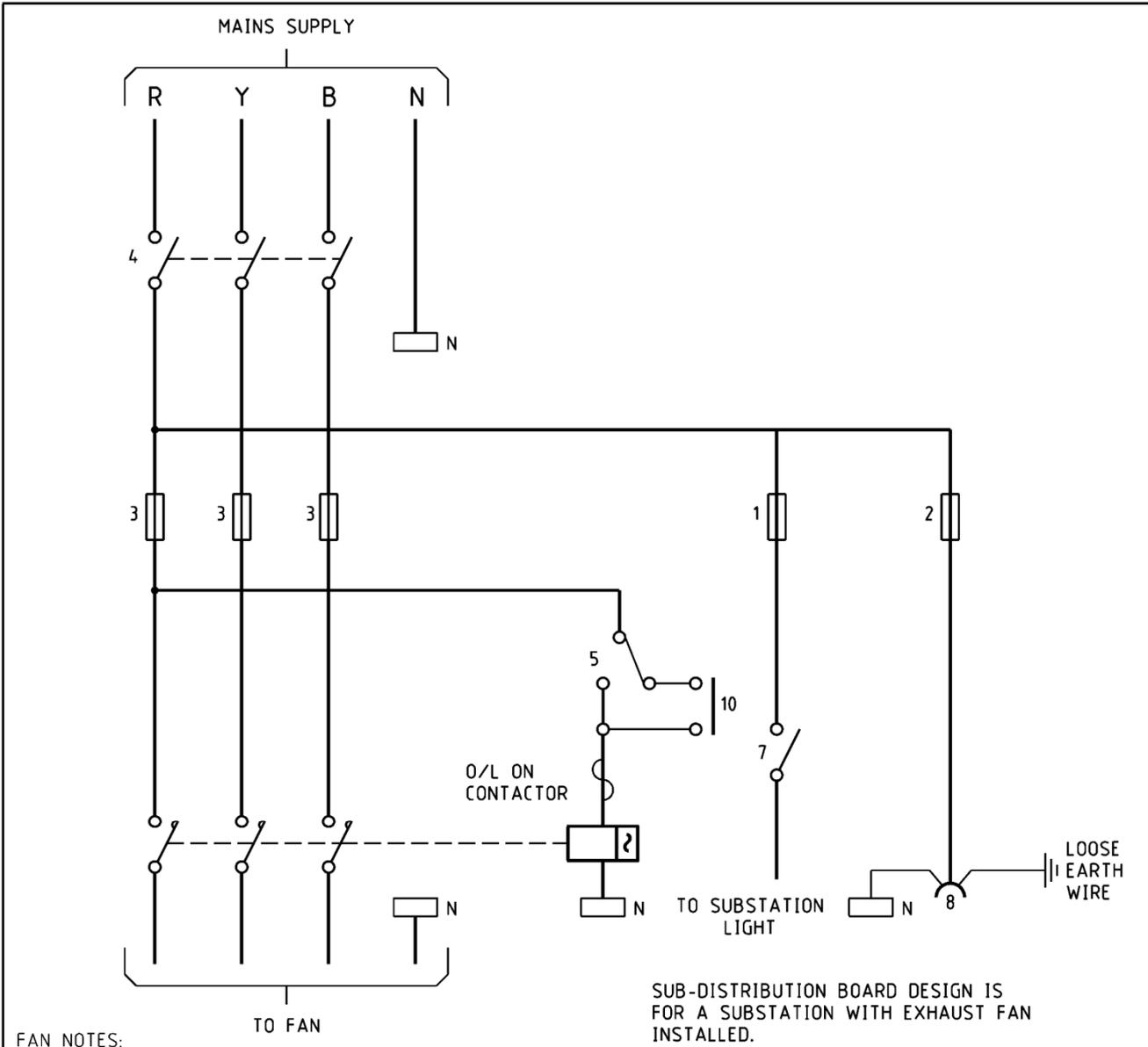
**FAN DETAILS**  
AXIAL FAN  
FLOW RATE 45m<sup>3</sup>/minute

THIS DRAWING TO BE READ IN CONJUNCTION WITH THE WESTERN AUSTRALIAN DISTRIBUTION CONNECTIONS MANUAL

REV No	DATE	DESCRIPTION	CHKD	APRD
B	30 07 2014	FORMAT CHANGED	YL	EJ
A	01 03 2008	ORIGINAL ISSUE		

**SUBSTATION EXHAUST FANS - DETAILS**

DRAWN JRR		DATE 29-07-2014	DRG No
CHECKED YL		SCALE NTS	DSM-6-02
APPROVED		ERIC JONG	REV B SHT 1/1



**FAN NOTES:**

FOR TRANSFORMERS UPTO AND INCLUDING 500kVA THE FAN MOTOR SHALL BE Y CONNECTED FOR LOW SPEED OPERATION. THE MAX. FLOW RATE WILL BE 45m<sup>3</sup> / MINUTE

FOR TRANSFORMERS ABOVE 500kVA, THE FAN MOTOR SHALL BE Δ CONNECTED FOR HIGH SPEED OPERATION.

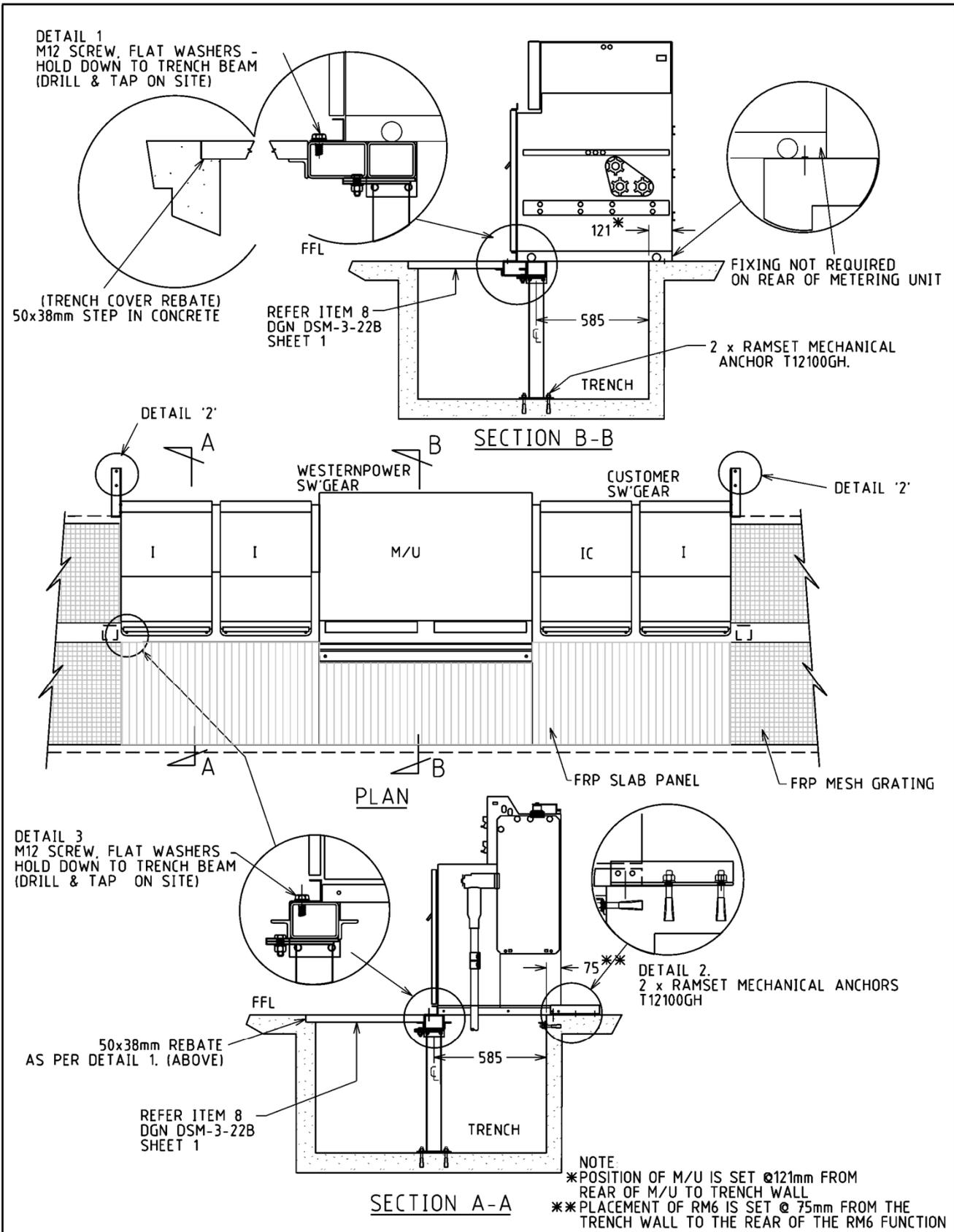
ELECTRICAL FAN LOADS :  
 Y LOW SPEED 230W / 0.4 AMPS  
 Δ HIGH SPEED 320W / 0.6 AMPS

FAN THERMOSTAT TO BE LOCATED DIRECTLY ABOVE THE TRANSFORMER AND SET AT 50° C

ITEM	QTY	DESCRIPTION
1	1	RED SPOT G.E.C RS 20 P FUSE HOLDER - LIGHTS
2	1	RED SPOT G.E.C RS 20 P FUSE HOLDER - POWER
3	3	RED SPOT G.E.C RS 20 P FUSE HOLDER -FAN
4	1	MAIN SWITCH - FEDERAL M335
5	1	AUTO/MANUAL SWITCH
6	1	CONTACTOR SIEMENS No.1
7	1	LIGHT SWITCH
8	1	G.P.O.
9	1	NEUTRAL BLOCK
10	1	THERMOSTAT
11	1	'ZIEHL-EBM' AXIAL FAN MODEL FC045-VDQ4C.3

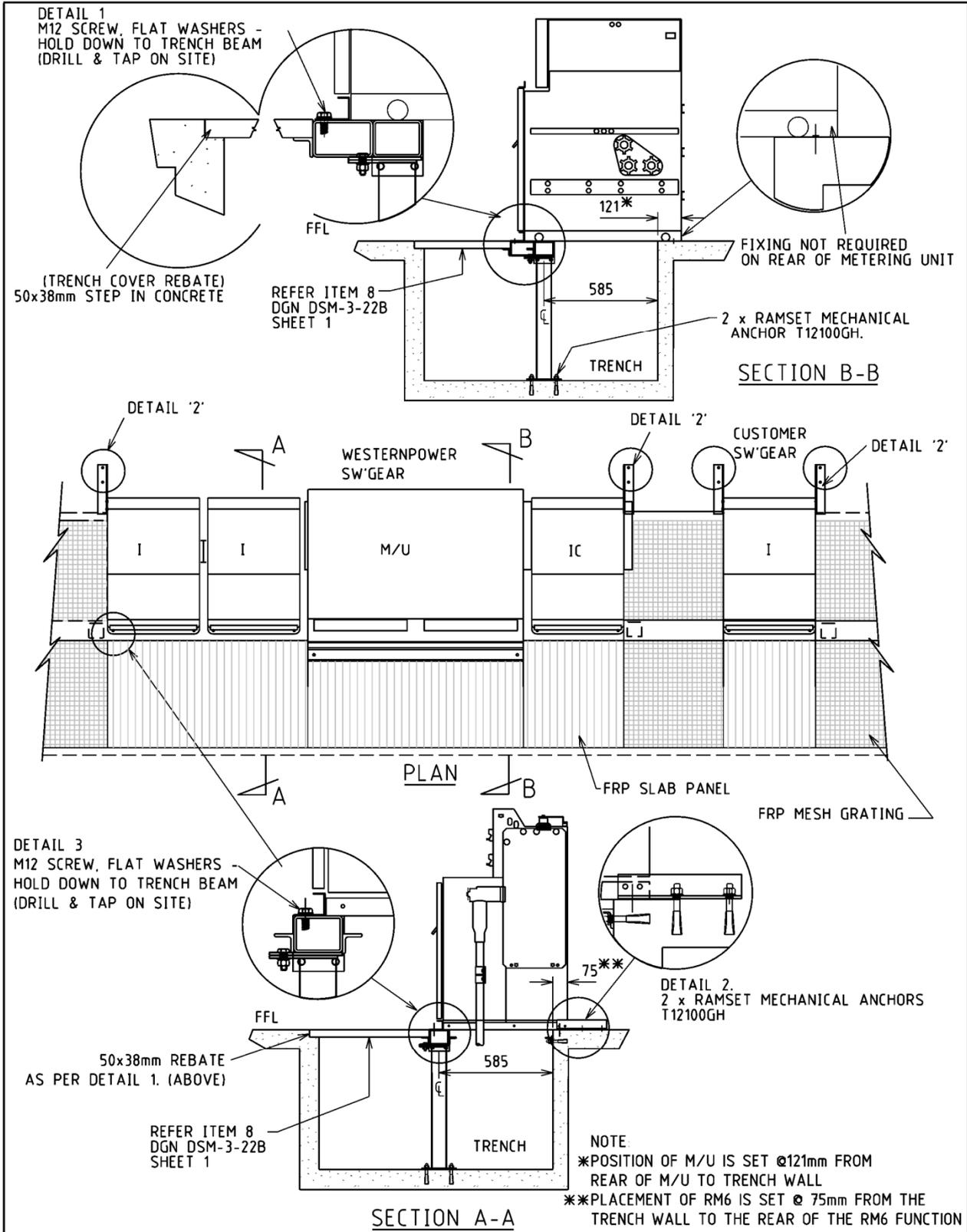
**THIS DRAWING TO BE READ IN CONJUNCTION WITH THE WESTERN AUSTRALIAN DISTRIBUTION CONNECTIONS MANUAL**

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B	30 07 2014	FORMAT CHANGED		YL	EJ	SUBSTATION EXHAUST FAN SUB-DISTRIBUTION BOARD FOR INDOOR SUBSTATION SCHEMATIC		DRAWN	JRR	DATE	29-07-2014	DRG No
A	01 03 1998	ORIGINAL ISSUE						CHECKED	YL	SCALE	NTS	DSM-6-03
								APPROVED	ERIC JONG		REV	B
								DATE		30-07-2014	SHT	1/1



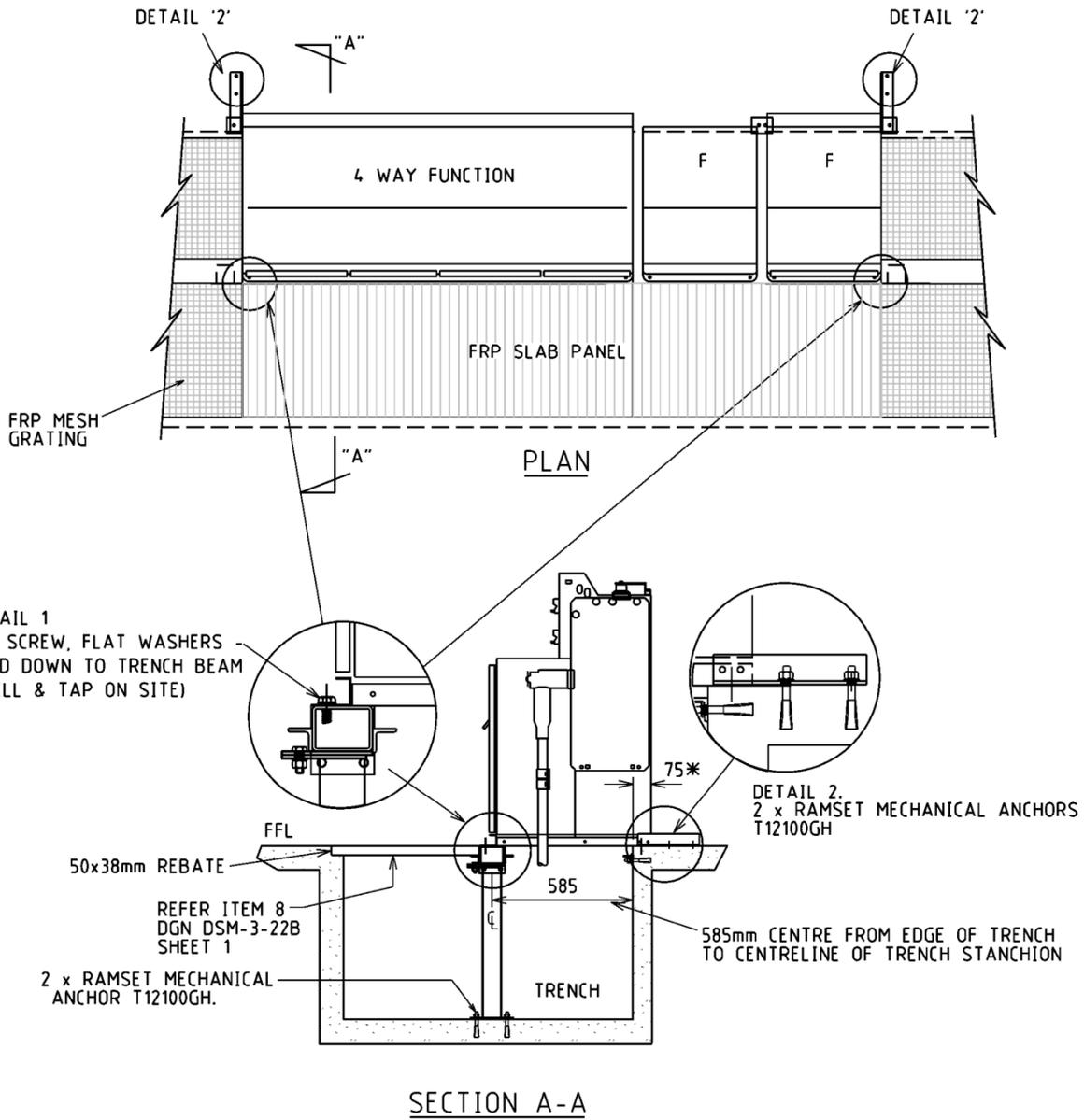
DRG DSM6-07 SHEET 1 FOR SWITCHGEAR SUPPORTS, BEAMS AND FABRICATION DETAILS

				TITLE		DISTRIBUTION SUBSTATION MANUAL		westernpower			
				SCHNEIDER RM6 INDOOR METERING DIRECT BUS CONNECTION TRENCH SUPPORTS AND INSTALLATION DETAILS							
B		31 03 15		FORMAT CHANGED AND TRENCH COVER REBATE REVISED				YL		EJ	
A		20 11 08		ORIGINAL ISSUE						DSM-6-04	
R No		DATE		DESCRIPTION				CHD		APRD	
								APPROVED		ERIC JONG	
								REV		B	
								SHT		1/3	



DRG DSM6-07 SHEET 2 FOR SWITCHGEAR SUPPORTS, BEAMS AND FABRICATION DETAILS

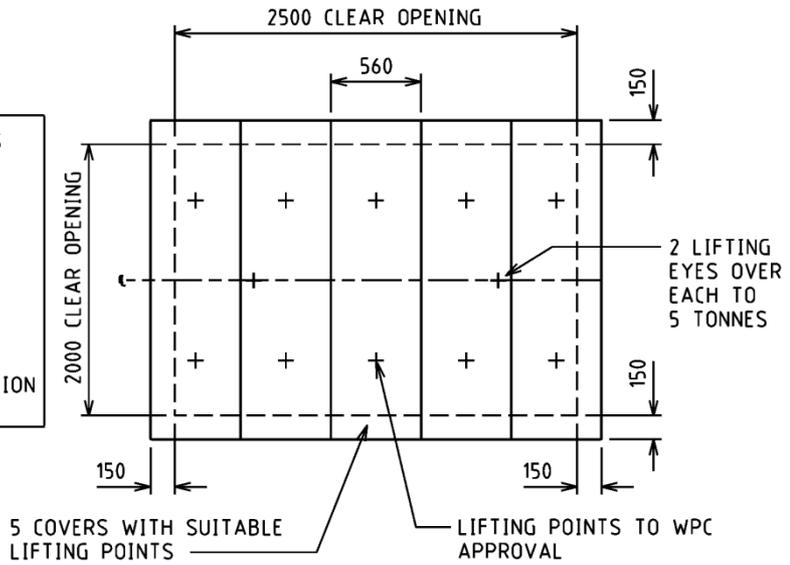
				TITLE SCHNEIDER RM6 INDOOR METERING CABLE CONNECTION TRENCH SUPPORTS AND INSTALLATION DETAILS				DISTRIBUTION SUBSTATION MANUAL		westernpower	
B	31 03 15	FORMAT CHANGED AND TRENCH COVER REBATE REVISED	YL	EJ	DRAWN	JRR	DATE	21-07-2014	DRG No	DSM-6-04	
A	20 11 08	ORIGINAL ISSUE			CHECKED	YL	SCALE	NTS	APPROVED	ERIC JONG	REV B SHT 2/3
R No	DATE	DESCRIPTION	CHD	APRD							



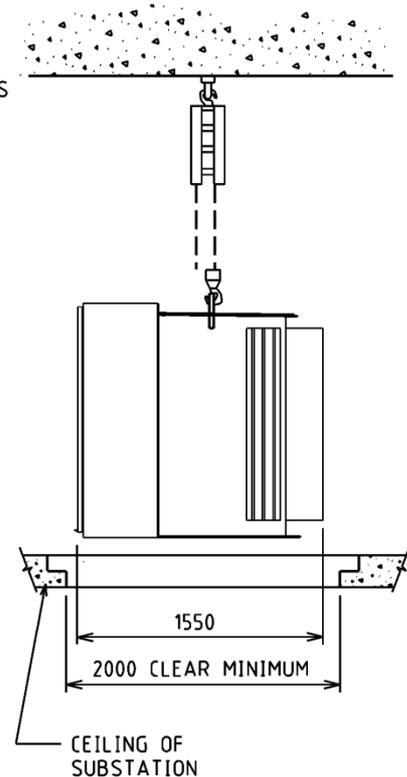
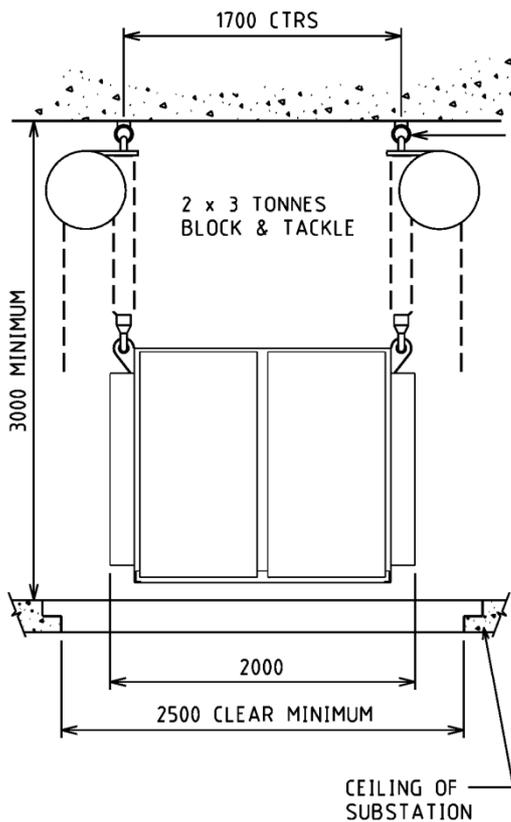
NOTE:  
 \* PLACEMENT OF RM6 IS 75mm FROM THE TRENCH WALL TO THE REAR OF THE RM6 FUNCTION  
 DRG DSM6-07 SHEET 3 FOR SWITCHGEAR SUPPORTS, BEAMS AND FABRICATION DETAILS

				TITLE		DISTRIBUTION SUBSTATION MANUAL		westernpower	
				SCHNEIDER RM6 INDOOR SWITCHGEAR ONLY TRENCH SUPPORTS AND INSTALLATION DETAILS		DRAWN JRR DATE 21-07-2016		DRG No	
						CHECKED YL SCALE NTS		DSM-6-04	
						APPROVED		REV B SHT 3/3	
						ERIC JONG			
B	31 03 15	FORMAT CHANGED AND TRENCH COVER REBATE REVISED	YL	EJ					
A	20 11 08	ORIGINAL ISSUE							
R No	DATE	DESCRIPTION	CHD	APRD					

- PROCEDURE TO INSTALL TRANSFORMERS**
1. REMOVE HATCH COVER
  2. PLACE MS CHANNEL OVER OPENING
  3. ROLL TRANSFORMER ONTO CHANNELS
  4. LIFT TRANSFORMER WITH 2 x 3 TONNES BLOCK & TACKLE UNITS
  5. REMOVE CHANNELS
  6. LOWER TRANSFORMER INTO SUBSTATION



PLAN OF HATCH COVER

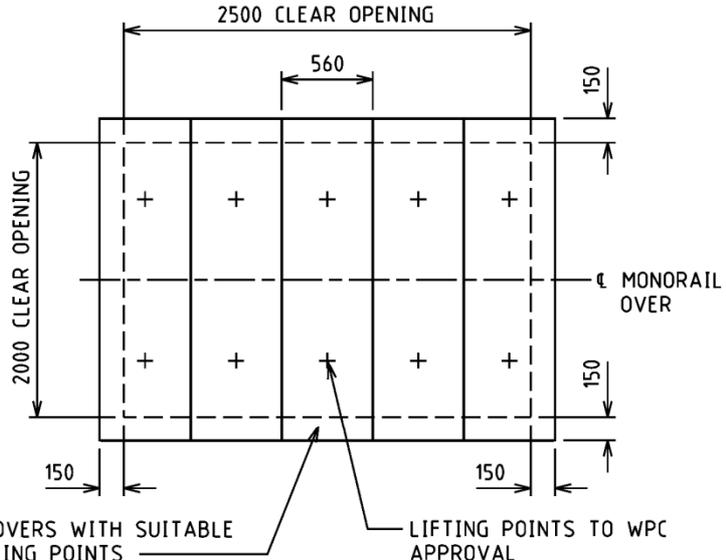


NOTES:-

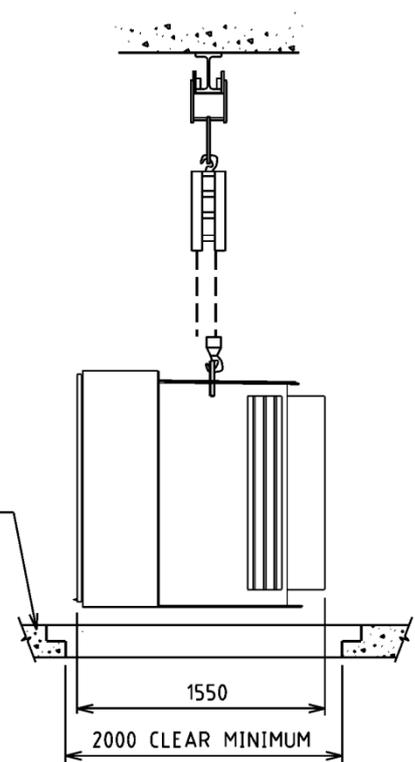
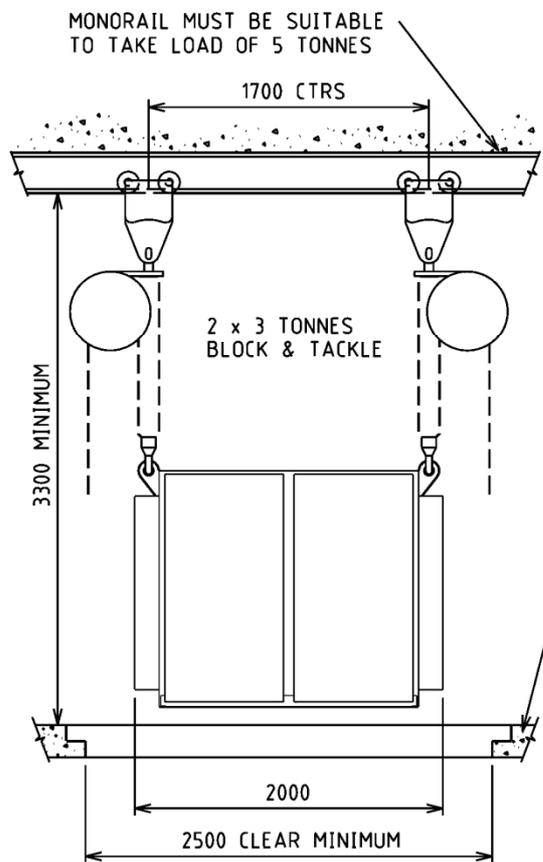
1. WEIGHT OF TRANSFORMER - 5 TONNES (1000kVA).
2. THE FLOOR OVER WHICH THE TRANSFORMER IS TO BE TRANSPORTED IS TO BE CAPABLE OF SAFELY SUPPORTING THE TRANSFORMER

				TITLE		DISTRIBUTION SUBSTATION MANUAL		westernpower	
				TRANSFORMER LIFTING DETAILS					
				LIFTING EYES					
REV No	DATE	DESCRIPTION	CHEK	APRD	DRAWN	JRR	DATE	29-07-2014	DRG No
B	30 07 2014	FORMAT CHANGED	YL	EJ	CHECKED	YL	SCALE	NTS	DSM-6-05
A	01 06 1997	ORIGINAL ISSUE			APPROVED	ERIC JONG	DATE	30-07-2014	REV B
									SHT 1/2

- PROCEDURE TO INSTALL TRANSFORMERS**
1. REMOVE HATCH COVER
  2. PLACE MS CHANNEL OVER OPENING
  3. ROLL TRANSFORMER ONTO CHANNELS
  4. LIFT TRANSFORMER WITH 2 x 3 TONNES BLOCK & TACKLE UNITS
  5. REMOVE CHANNELS
  6. LOWER TRANSFORMER INTO SUBSTATION



**PLAN OF HATCH COVER**

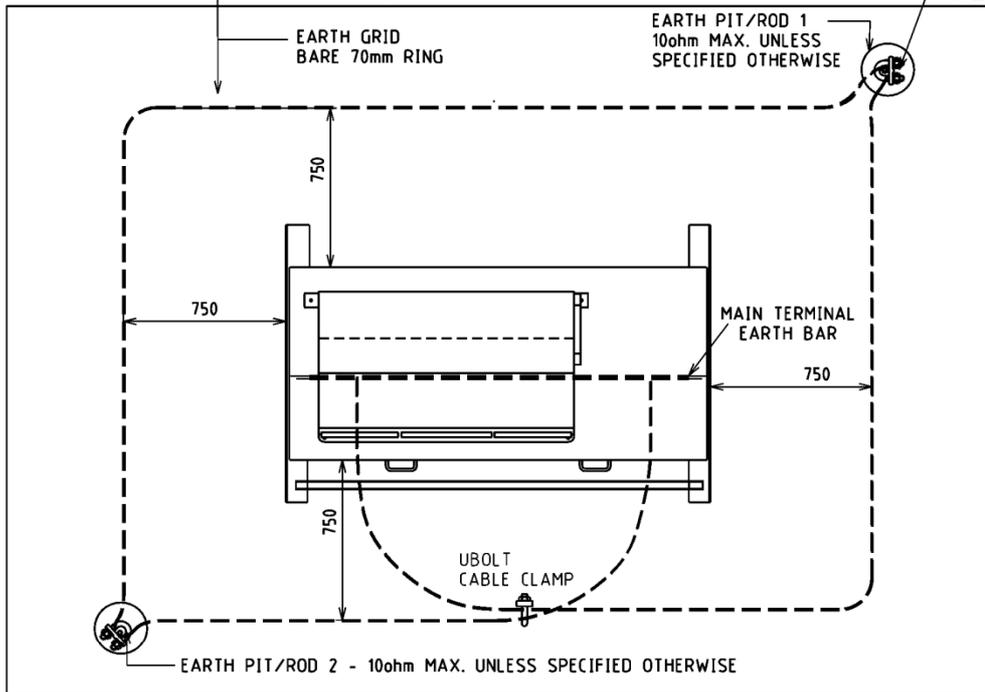
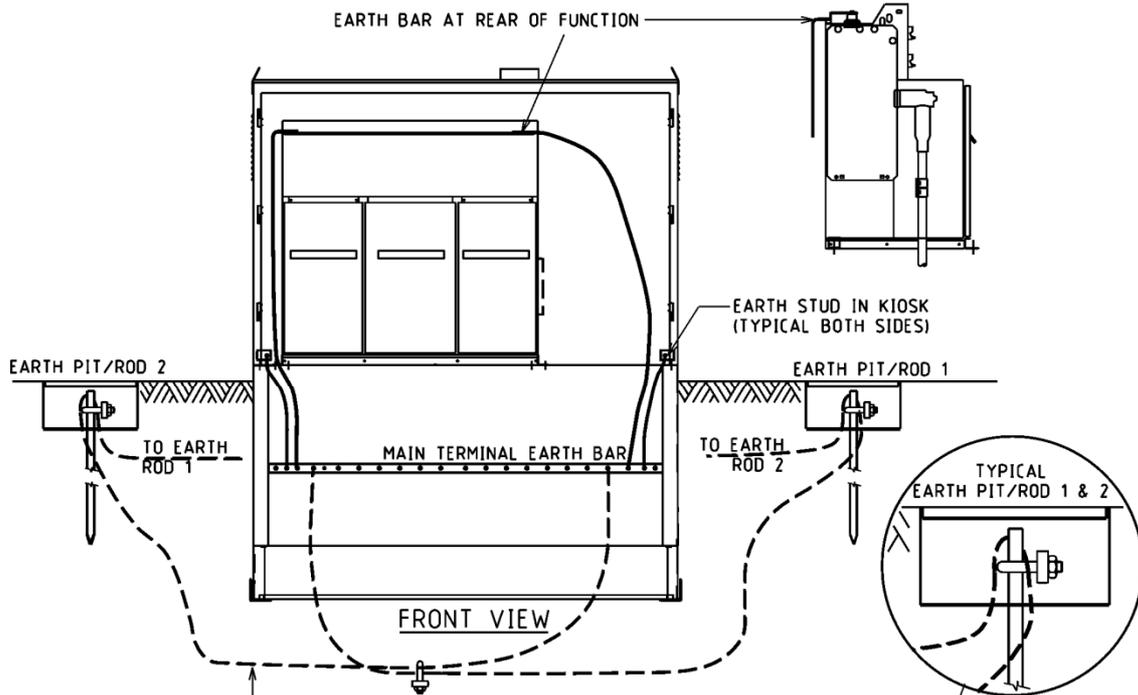


**NOTES:-**

1. WEIGHT OF TRANSFORMER - 5 TONNES (1000kVA).
2. THE FLOOR OVER WHICH THE TRANSFORMER IS TO BE TRANSPORTED IS TO BE CAPABLE OF SAFELY SUPPORTING THE TRANSFORMER
3. MONORAILS FOR TRANSFORMER LIFTING SHOULD BE 152 OR 200mm WIDE TO SUIT GIRDER TROLLEYS OF THESE SIZES
4. IT IS THE RESPONSIBILITY OF THE CUSTOMER TO PROVIDE THE MONORAIL & ENGAGE A STRUCTURAL ENGINEER TO ENSURE THE CORRECT DESIGN & CONSTRUCTION OF THE MONORAIL SUPPORT & FLOOR.

**THIS DRAWING TO BE READ IN CONJUNCTION WITH THE WESTERN AUSTRALIAN DISTRIBUTION CONNECTIONS MANUAL**

				TITLE		DISTRIBUTION SUBSTATION MANUAL		westernpower	
				TRANSFORMER LIFTING DETAILS MONORAIL		DRAWN JRR DATE 29-07-2014		DRG No	
						CHECKED YL SCALE NTS		DSM-6-05	
						APPROVED ERIC JONG DATE 30-07-2014		REV B SHT 2/2	
REV No	DATE	DESCRIPTION	CHEK	APRO					
B	30 07 2014	FORMAT CHANGED	YL	EJ					
A	01 06 1997	ORIGINAL ISSUE							



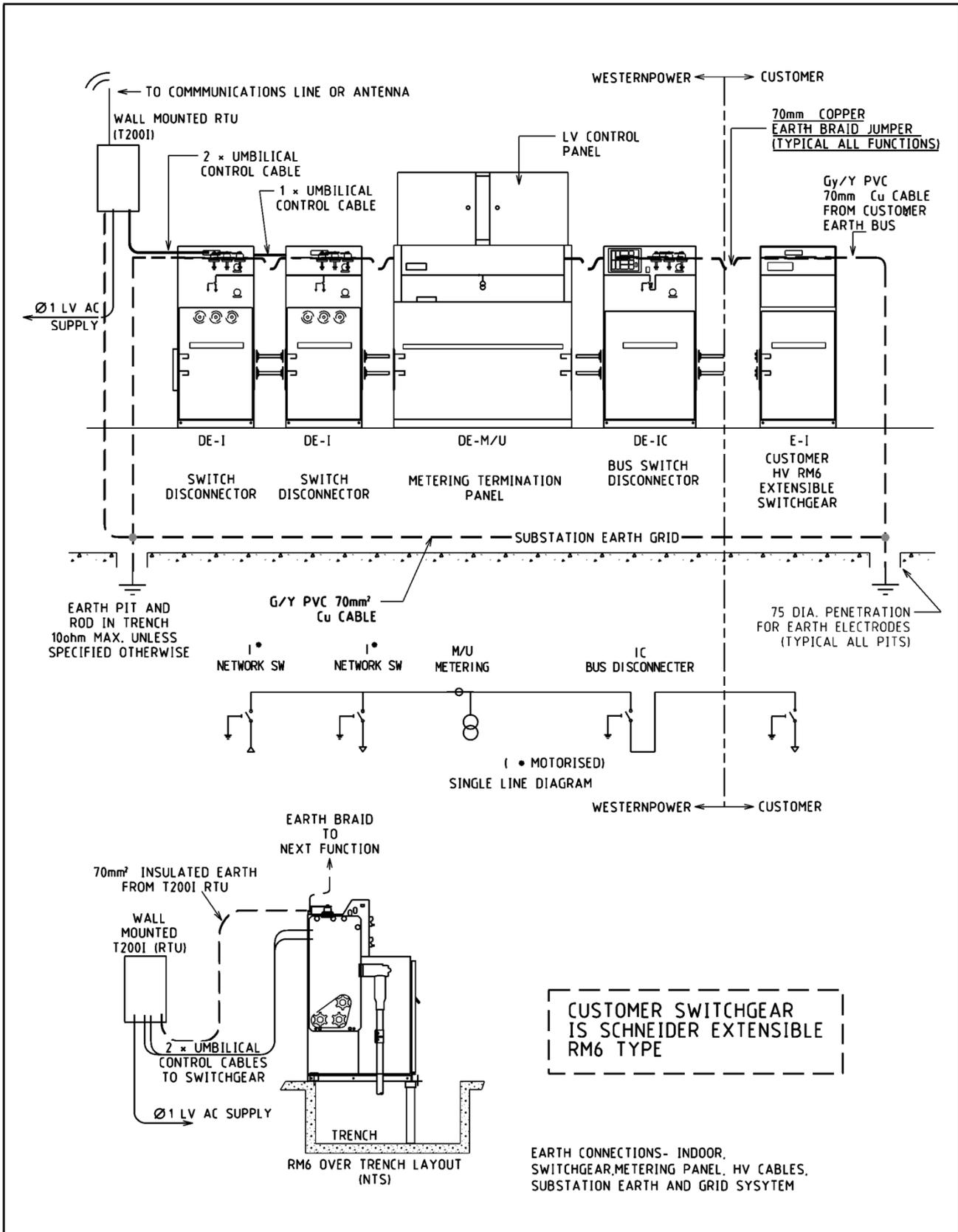
PLAN VIEW OF KIOSK

LEGEND:  
 EARTHING BARE: - - - -  
 Gn/Y 70mm PVC: ————

NOTE:  
 INSTALL RING AROUND KIOSK AT 750mm AT DEPTH OF 150mm SINGLE CONTINUOUS GRADING RING TO BE LOOPED AND CONNECTED TO EARTH RODS TERMINATING ON EARTH BAR AT BOTH ENDS

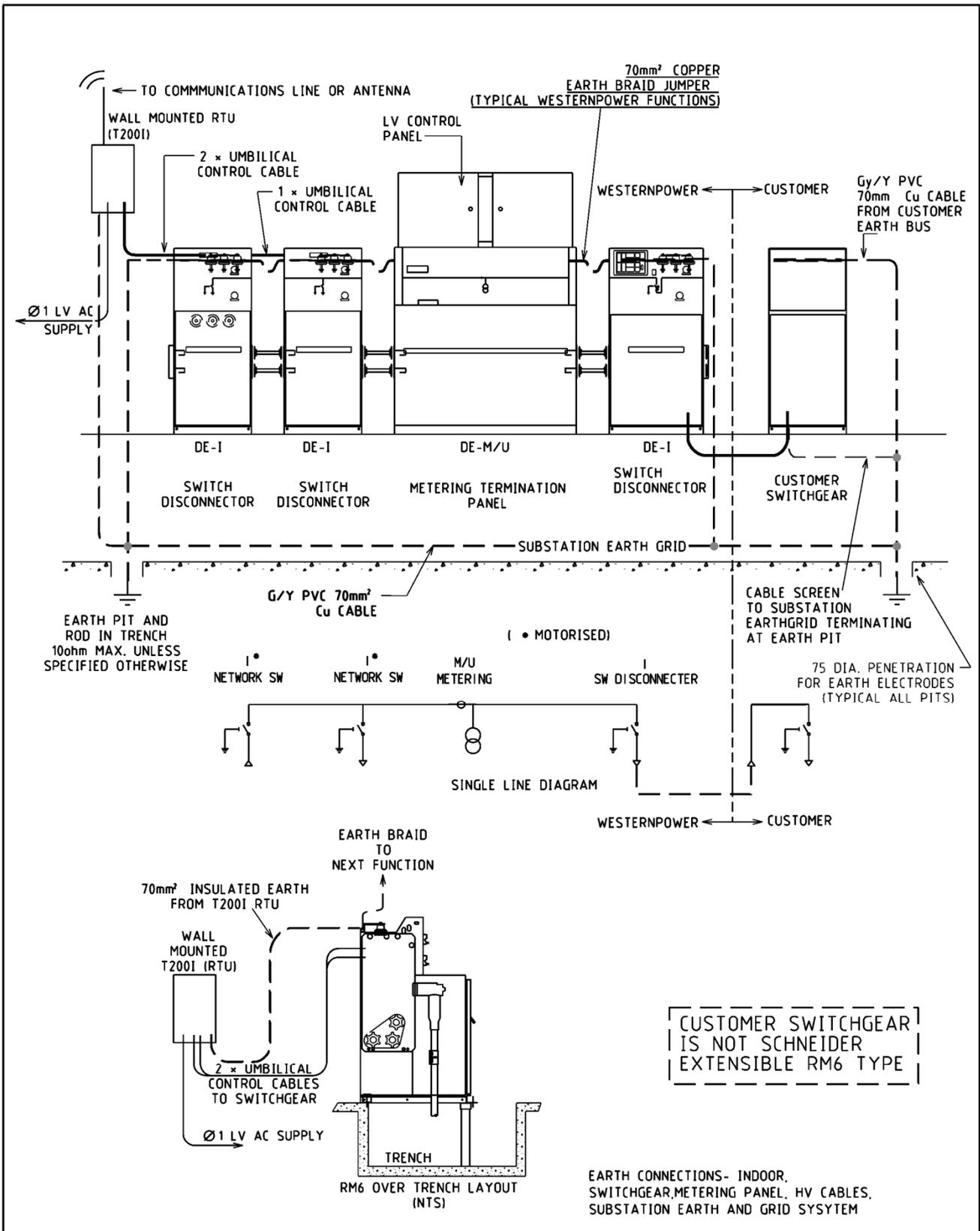
THIS DRAWING TO BE READ IN CONJUNCTION WITH THE WESTERN AUSTRALIAN DISTRIBUTION CONNECTIONS MANUAL

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						CHECKED YL SCALE NTS		DSM-6-06	
						APPROVED		REV C SHT 1/3	
						ERIC JONG		DATE 30-07-2014	
REV No	DATE	DESCRIPTION	CHD	APRD					
C	30 07 2014	FORMAT CHANGED		YL E.J					
B	20 11 2008	ORIGINAL ISSUE							



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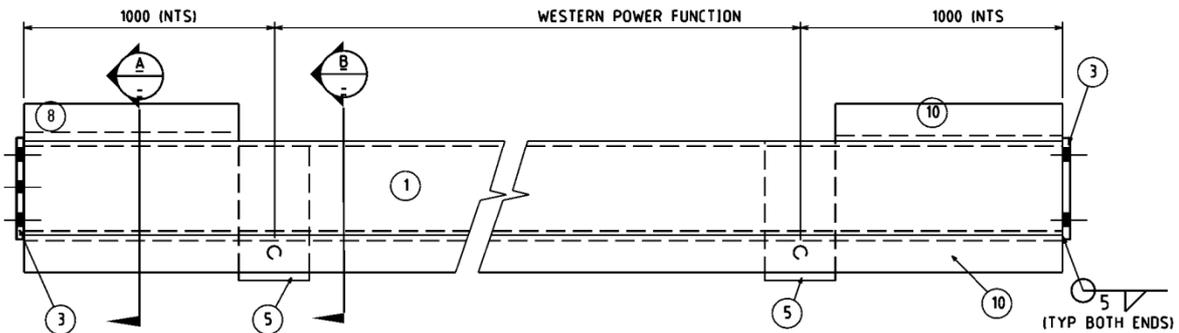
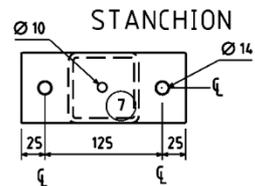
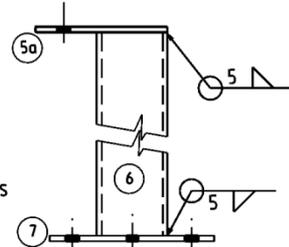
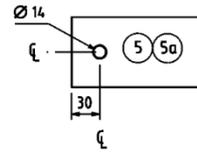
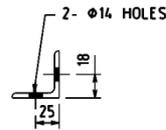
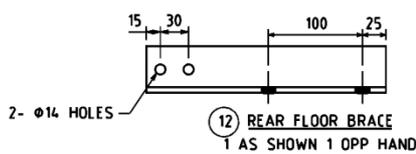
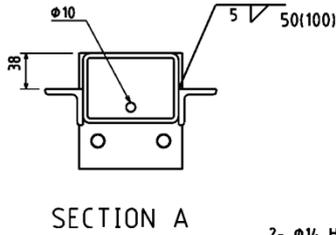
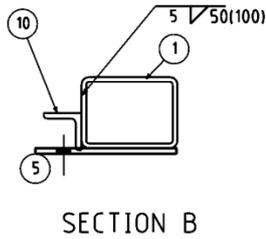
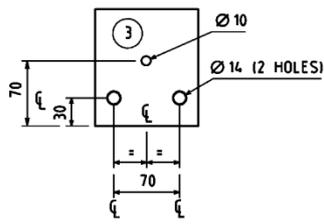
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						CHECKED YL SCALE NTS		DSM-6-06	
						APPROVED		REV B SHT 2/3	
						ERIC JONG DATE 30-07-2014			
REV No	DATE	DESCRIPTION	CHEK	APRD					
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A	13 11 2008	ORIGINAL ISSUE							



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				TITLE		DISTRIBUTION SUBSTATION MANUAL		westernpower	
				SCHNEIDER INDOOR SWITCHGEAR EQUIPMENT EARTH ARRANGEMENT (CABLE CONNECTION) INSTALLATION DETAILS		DRAWN JRR		DRG No	
						CHECKED YL		SCALE NTS	
						APPROVED		DATE 29-07-2014	
						ERIC JONG		REV B	
						DATE 30-07-2014		SHT 3/3	
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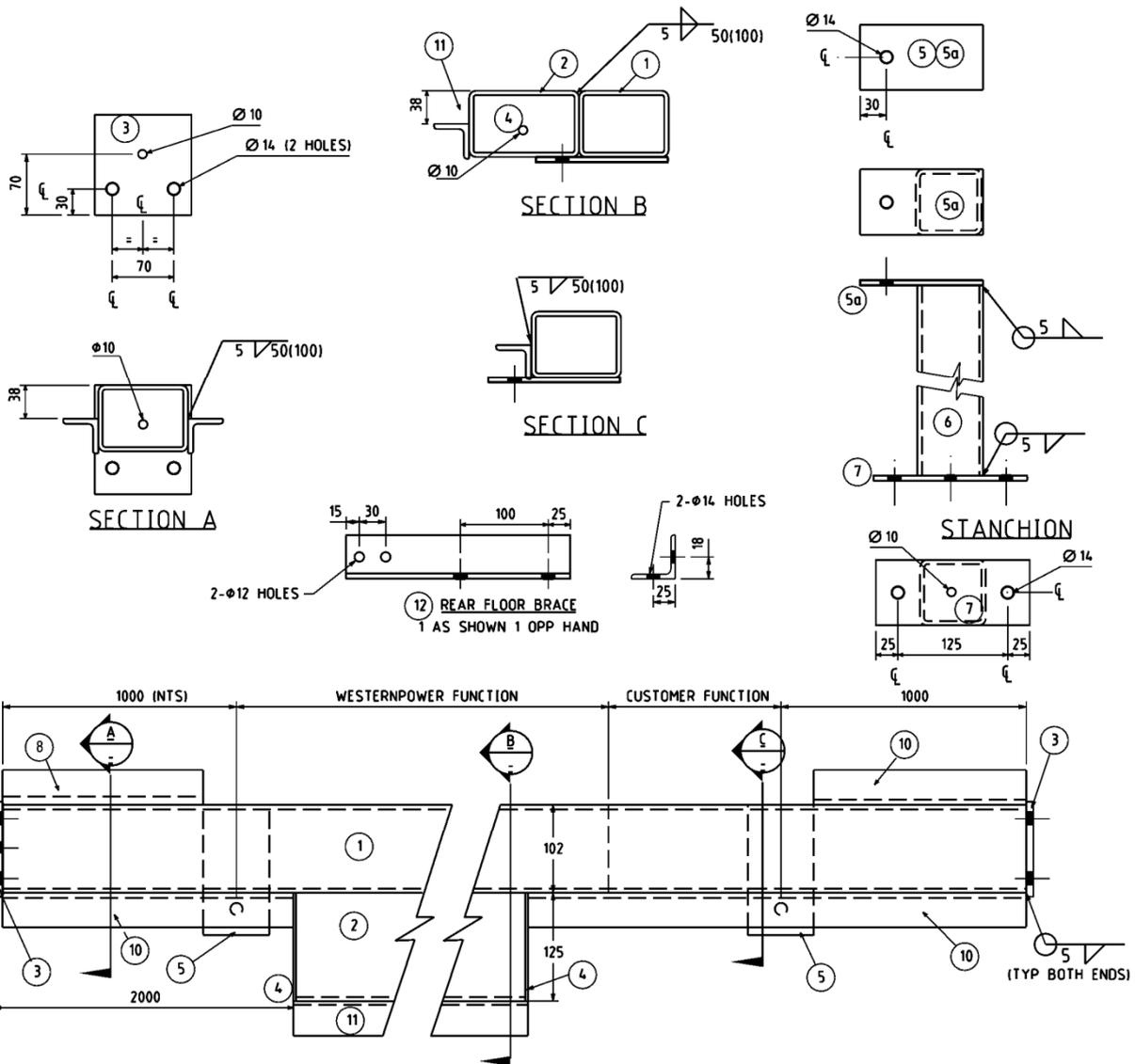


REF	QUANT	MATERIALS	REMARKS
<b>BEAM</b>			
1	1	102x76 x5 RHS x LENGTH DEPENDENT OF SWITCHROOM TRENCH	
2			
3	2	110x6 MS PL. x 125 LG. (BEAM END PLATES)	
4			
5	REMARKS	75x6 MS PL. 150 LG. (APPLIES TO NUMBER OF STANCHIONS)	SPACED 1000 FROM EACH END OF BEAM AND THEN @ 1000 CENTRES
<b>STANCHIONS (EACH)</b>			
5a	1	75x6 MS PL. 140 LG.	
6	1	75x5 SHS 1106 LG.	
7	1	75x6 MS PL. 175 LG.	
<b>ANGLE FLOOR SUPPORTS</b>			
8	1	50x5 E.A. 1000 - BETWEEN TRENCH WALL AND FUNCTION	LENGTH MAY VARY ON REQUIREMENTS
10	2	50x5 E.A. x LENGTH AS REQUIRED TO TRENCH WALLS	
11			
<b>REAR FLOOR BRACE</b>			
12	REMARKS	50x5 E.A. 245 LG.	2 REQUIRED EACH FUNCTION

REFERENCE DRAWINGS:  
 DSM-6-04 SHEET 2 FOR SWITCHGEAR FIXING DETAILS  
 DSM-3-21 SHEETS 1 TO 4 FOR SUBSTATION ROOM DETAILS

NOTES:  
 ALL WELDED CONSTRUCTION WITH 5mm FILLET WELDS  
 LONG LENGTHS STITCH WELD 50 (100)  
 10 dia. HOLES FOR EXPANSION ON H.D.G.  
 REMOVE ALL BURRS AND SHARP EDGES  
 H.D. GALV AFTER CONSTRUCTION TO AS/NZS 4680

				TITLE		DISTRIBUTION SUBSTATION MANUAL		westernpower	
				SCHNEIDER RM6 INDOOR SWITCHGEAR SUPPORTS AND FABRICATION DETAILS					
D	31 03 15	FORMAT CHANGED AND TRENCH COVER REBATE REVISED	YL	EJ	DRAWN	JRR	DATE	21-07-2014	DRG No
C	20 11 08	ORIGINAL ISSUE			CHECKED	YL	SCALE	NTS	DSM-6-07
R No	DATE	DESCRIPTION	CHD	APRD	APPROVED	ERIC JONG		REV	SHT
								D	2/3



REF	QUANT	MATERIALS	REMARKS
<b>BEAM</b>			
1	1	102x76 x5 RHS x LENGTH DEPENDENT OF SWITCHROOM TRENCH	
2	1	125x76 x5 RHS x 1170 LG (FLOOR PLATE FOR METERING UNIT).	
3	2	110x6 MS PL. x 125 LG. (BEAM END PLATES)	
4	2	75x2 MS PL. 125 LG. (BLANKING PLATES)	
5	REMARKS	75x6 MS PL. 150 LG. (APPLIES TO NUMBER OF STANCHIONS)	SPACED 1000 FROM EACH END OF BEAM AND THEN @ 1000 CENTRES
<b>STANCHIONS (EACH)</b>			
5a	1	75x6 MS PL. 140 LG.	
6	1	75x5 SHS 1106 LG.	
7	1	75x6 MS PL. 175 LG.	
<b>ANGLE FLOOR SUPPORTS</b>			
8	1	50x5 E.A. 1000 - BETWEEN TRENCH WALL AND FUNCTION	LENGTH MAY VARY ON REQUIREMENTS
9			
10	2	50x5 E.A. x VARIABLE LENGTH FROM FUNCTIONS TO TRENCH WALL	
11	1	50x5 E.A. x 1170 LG.	
<b>REAR FLOOR BRACE</b>			
12	REMARKS	50x5 E.A. 245 LG.	2 REQUIRED EACH FUNCTION

REFERENCE DRAWINGS:  
 DSM-6-04 SHEET 3 FOR SWITCHGEAR FIXING DETAILS  
 DSM-3-22A SHEET 1-3 FOR SWITCH ROOM DETAILS

NOTES:  
 ALL WELDED CONSTRUCTION WITH 5mm FILLET WELDS  
 LONG LENGTHS STITCH WELD 50 (100)  
 10 dia. HOLES FOR EXPANSION ON H.D.G.  
 REMOVE ALL BURRS AND SHARP EDGES  
 H.D. GALV AFTER CONSTRUCTION TO AS/NZS 4680

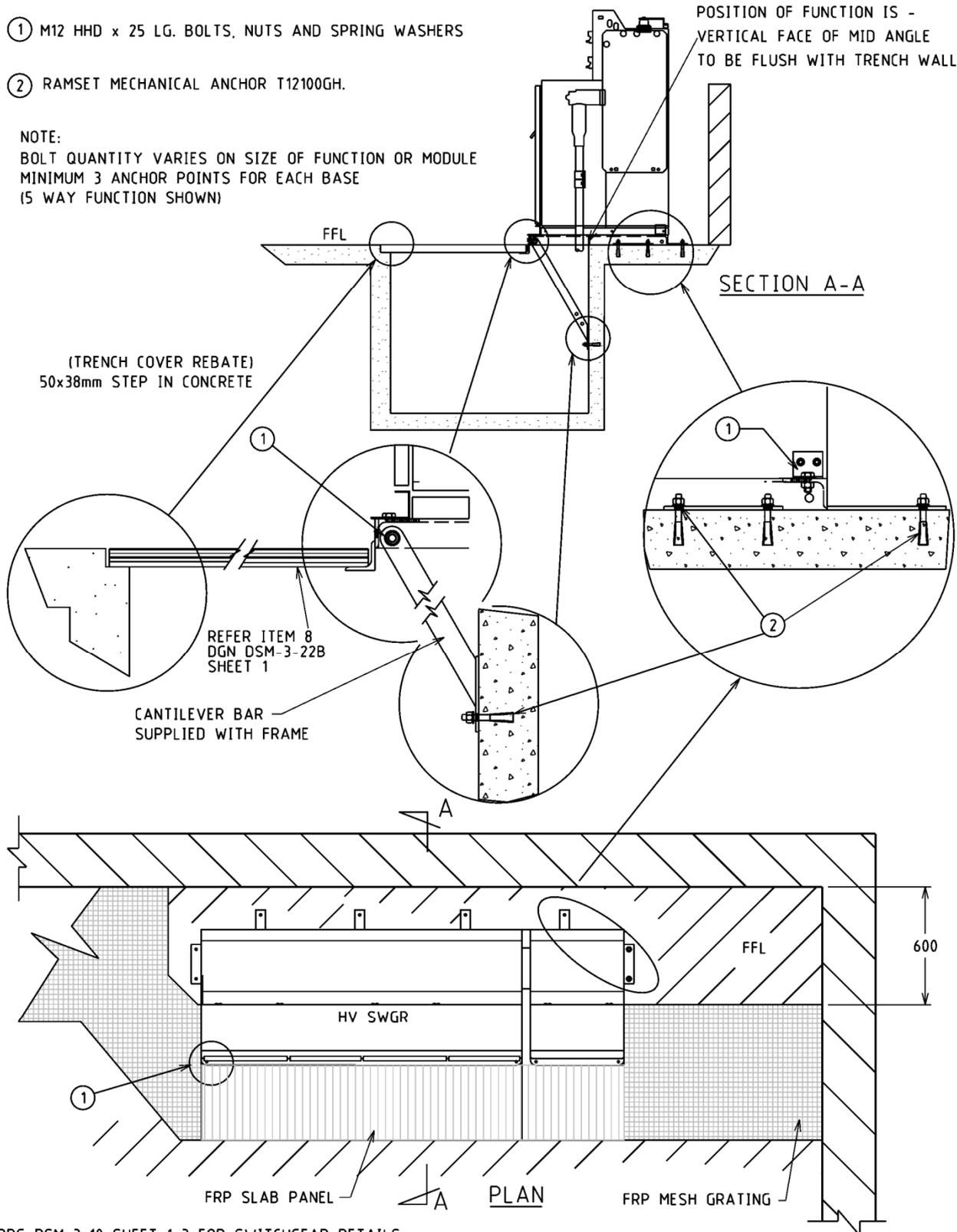
E 31 03 15		FORMAT CHANGED AND TRENCH COVER REBATE REVISED	YL	EJ	TITLE <b>SCHNEIDER RM6                  INDOOR BUS CONNECTION                  SWITCHGEAR SUPPORTS AND                  FABRICATION DETAILS</b>	DISTRIBUTION SUBSTATION MANUAL 	DRAWN	JRR	DATE	21-07-2014	DRG No		
D 16 10 08		ORIGINAL ISSUE					CHECKED	YL	SCALE	NTS			DSM-6-07
R No	DATE	DESCRIPTION	CHD	APRD			APPROVED					ERIC JONG	REV E

① M12 HHD x 25 LG. BOLTS, NUTS AND SPRING WASHERS

② RAMSET MECHANICAL ANCHOR T12100GH.

NOTE:  
BOLT QUANTITY VARIES ON SIZE OF FUNCTION OR MODULE  
MINIMUM 3 ANCHOR POINTS FOR EACH BASE  
(5 WAY FUNCTION SHOWN)

POSITION OF FUNCTION IS -  
VERTICAL FACE OF MID ANGLE  
TO BE FLUSH WITH TRENCH WALL



DRG DSM-3-10 SHEET 1-3 FOR SWITCHGEAR DETAILS

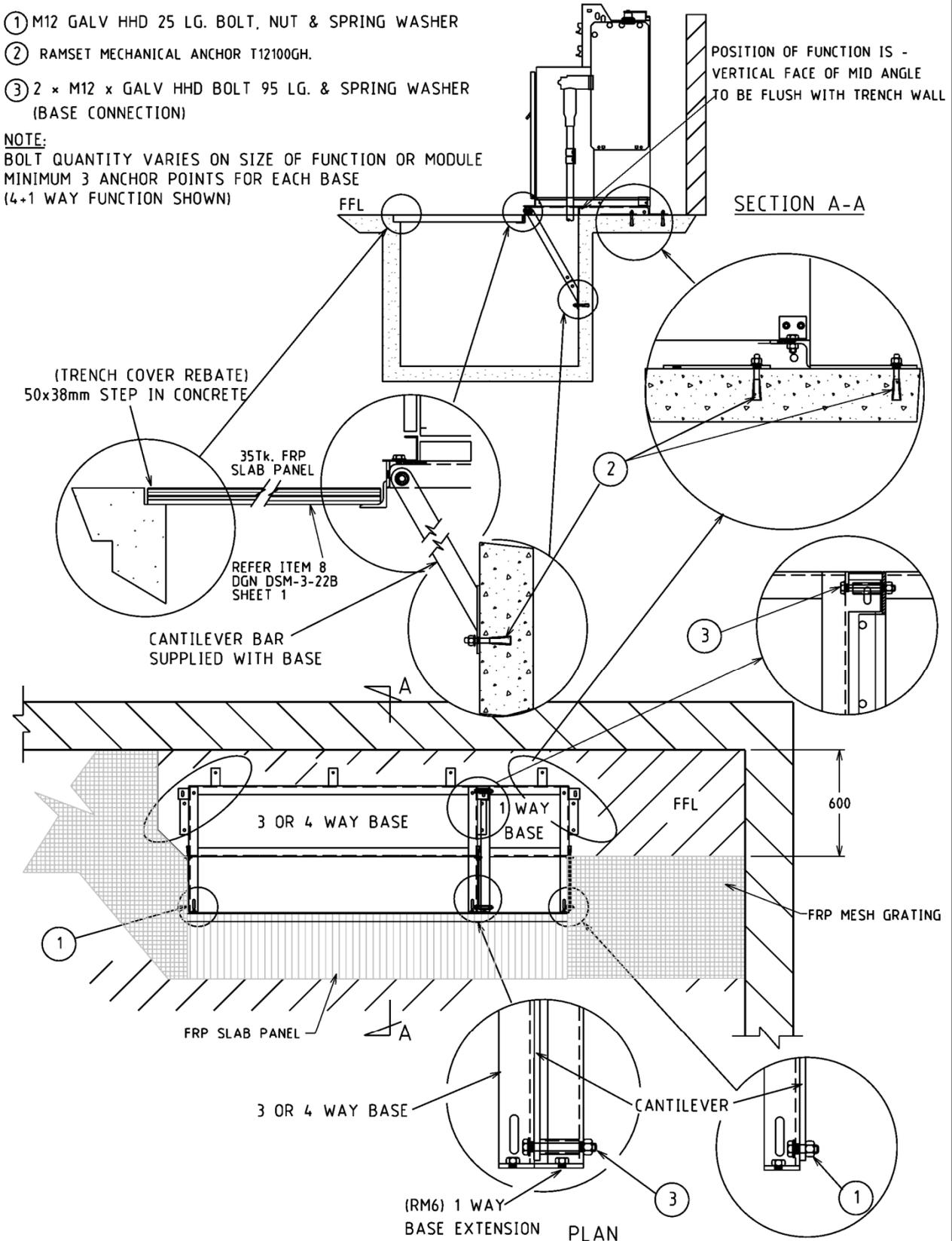
R. No	DATE	DESCRIPTION	CHD	APRD
B	31 03 15	FORMAT CHANGED AND TRENCH COVER REBATE REVISED	YL	EJ
A	19 11 08	ORIGINAL ISSUE		

TITLE	
SCHNEIDER SWITCHGEAR 3, 4 & 5 WAY FIXING DETAILS INSTALLATION DETAILS	

DISTRIBUTION SUBSTATION MANUAL				westernpower	
DRAWN	JRR	DATE	21-07-2016	DRG No	
CHECKED	YL	SCALE	NTS	DSM-6-08	
APPROVED				REV	SHT
				B	1/2

- ① M12 GALV HHD 25 LG. BOLT, NUT & SPRING WASHER
- ② RAMSET MECHANICAL ANCHOR T12100GH.
- ③ 2 × M12 × GALV HHD BOLT 95 LG. & SPRING WASHER (BASE CONNECTION)

**NOTE:**  
 BOLT QUANTITY VARIES ON SIZE OF FUNCTION OR MODULE  
 MINIMUM 3 ANCHOR POINTS FOR EACH BASE  
 (4+1 WAY FUNCTION SHOWN)

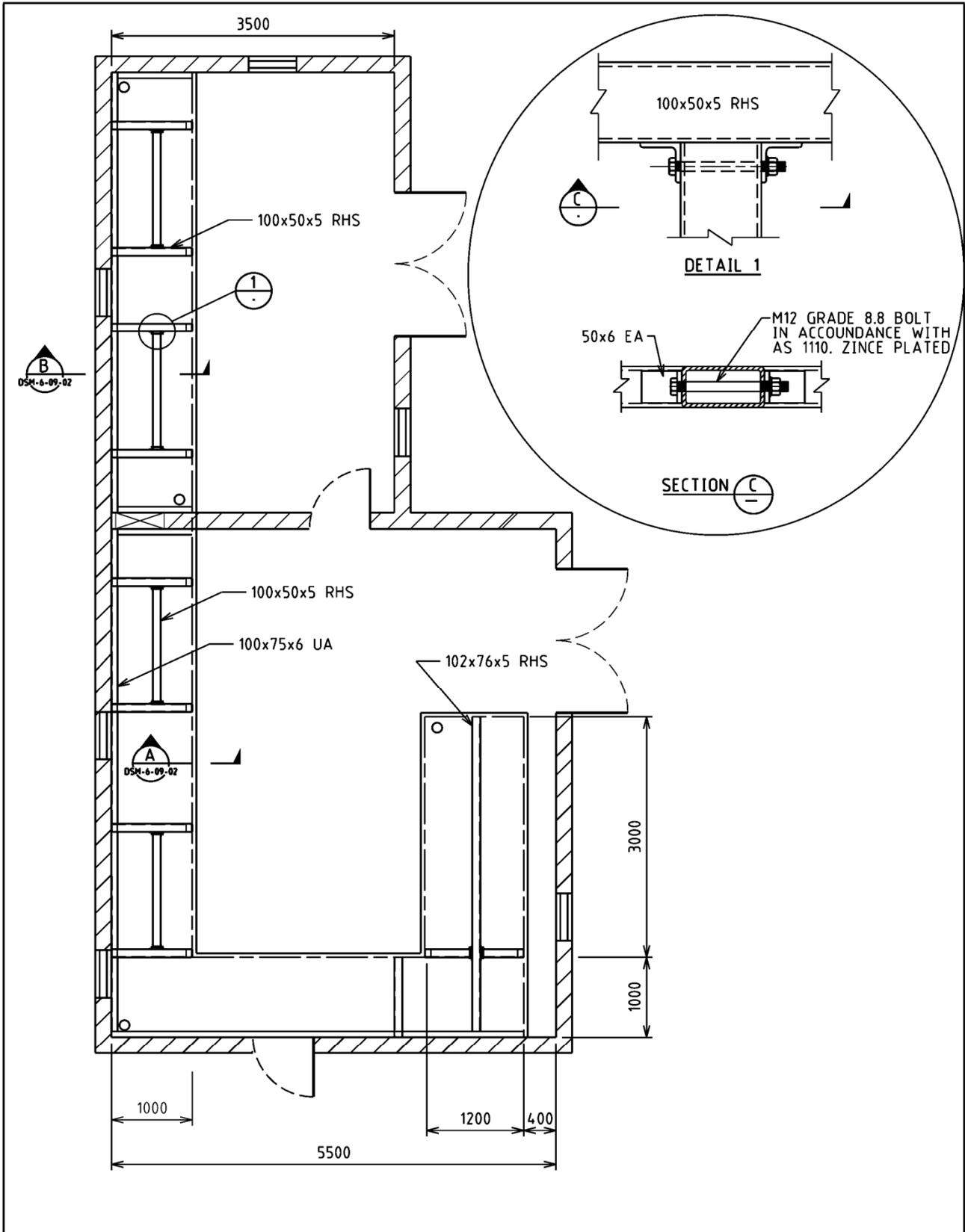


DRG DSM-3-20 SHEET 1-3 FOR SWITCHGEAR DETAILS

R. No	DATE	DESCRIPTION	CHKD	APRD
B	31 03 15	FORMAT CHANGED AND TRENCH COVER REBATE REVISED	YL	EJ
A	19 11 08	ORIGINAL ISSUE		

TITLE  
**SCHNEIDER SWITCHGEAR  
 3 & 4 WAY WITH 1 WAY EXTENSION  
 FIXING DETAILS**

DRAWN JRR		DATE 21-07-2014		DRG No	
CHECKED YL		SCALE NTS		DSM-6-08	
APPROVED		ERIC JONG		REV B	SHT 2/2



THIS DRAWING TO BE READ IN CONJUNCTION WITH THE WESTERN AUSTRALIAN DISTRIBUTION CONNECTIONS MANUAL

				TITLE		DISTRIBUTION SUBSTATION MANUAL		westernpower	
				INDOOR SUBSTATION LAYOUT TYPICAL TRENCH COVER LAYOUT (RETROFIT INSTALLATION)		DRAWN JRR DATE 21-07-2014		DRG No	
						CHECKED YL SCALE NTS		DSM-6-09	
						APPROVED		REV B SHY 1/2	
						ERIC JONG			
B	31 03 15	FORMAT CHANGED		YL	EJ				
A	21 07 14	ORIGINAL ISSUE							
R No	DATE	DESCRIPTION		CHD	APRD				

