24 May 2017 02:36:33 PM

SPECIFICATION AND STANDARDS:

DISTRIBUTION BOARDS

COMPLETE WITH FRAME, PLINTH, ARCHITRAVE, PANELS, LEVER LOCK DOORS, 30% SPARE CAPACITY, AS PER LAYOUT DRAWING, INSTALLATION OF 5x25mm SPARE CONDUITS TO ROOF SPACE.

DISTRIBUTION BOARDS SHALL BE MANUFACTURED BY SPECIALIST SWITCHBOARD MANUFACTURERS AND SHALL BE WIRED AND TESTED IN ACCORDANCE WITH SANS IEC 439-1 AND SANS 1473-1.
THE DISTRIBUTION BOARD DOORS SHALL BE HINGED AND SHALL HAVE LEVER LOCK LATCHES.

ALL DISTRIBUTION BOARDS SHALL BE PROTECTED AGAINST CORROSION BY BEING POWDER COATED AFTER MANUFACTURING AND BEFORE INSTALLATION.

BUSBARS SHALL BE INSTALLED WHERE THE MAIN CIRCUIT BREAKER CURRENT RATING EXCEEDS 60 A THREE PHASE, THE CURRENT DENSITY SHALL NOT EXCEED 1,4 A/mm² OF BUSBAR SECTION WHEN CARRYING DESIGN CURRENT.

EACH DISTRIBUTION BOARD SHALL BE LABELED WITH 15mm HIGH BLACK ENGRAVED TRAFOLYTE LABELS RIVETED ABOVE THE ACCESS DOOR.
EACH CIRCUIT BREAKER OR ISOLATOR SHALL BE LABELED WITH 5mm HIGH BLACK ENGRAVED TRAFOLYTE LABELS BELOW EACH BREAKER OR ISOLATOR. ALL MAIN SWITCHES SHALL BE LABELED WITH 5mm HIGH RED ENGRAVED TRAFOLYTE LABELS.

SWITCHING EQUIPMENT

SINGLE PHASE AND THREE PHASE CIRCUIT BREAKERS SHALL COMPLY WITH SANS 156.

SINGLE PHASE AND THREE PHASE ISOLATORS SHALL COMPLY WITH SANS 152.

SINGLE PHASE AND THREE PHASE EARTH LEAKAGE UNITS SHALL COMPLY WITH SANS 767.

CONTACTORS SHALL BE OF THE ELECTROMECHANICALLY OPERATED AIR - BREAK TYPE, UTILIZATION CATEGORY AC3 AND SHALL COMPLY WITH SANS IEC 60947-4-1

ALL CONTACTORS SHALL HAVE AT LEAST ONE AUXILIARY "NO" DRY CONTACT FOR MONITORING PURPOSES.

NOTE:

1) ALL WORK TO BE CARRIED OUT STRICTLY IN ACCORDANCE WITH THE APPLICABLE SANS REGULATIONS AND LOCAL AND MUNICIPAL REGULATIONS AND BY-LAWS.

2) NO PART OF THIS DRAWING MAY BE SCALED.

3) ALL DIMENSIONS AND LEVELS GIVEN MUST BE CHECKED BEFORE COMMENCING ANY WORK; ANY DISCREPANCIES MUST BE REPORTED TO THE ENGINEER WITHOUT DELAY.

4) THIS DRAWING IS ONLY FOR THE ELECTRICAL INSTALLATION PURPOSES.

5) REFER TO THE LEGEND FOR DETAILS OF ELECTRICAL EQUIPMENT.

6) ALL ELECTRICAL INSTALLATIONS SHALL COMPLY TO THE LATEST SANS SPECIFICATIONS.

7) THE SITE ENGINEER MUST ENSURE THAT WORK IS DONE FROM THE LATEST REVISION OF DRAWINGS.

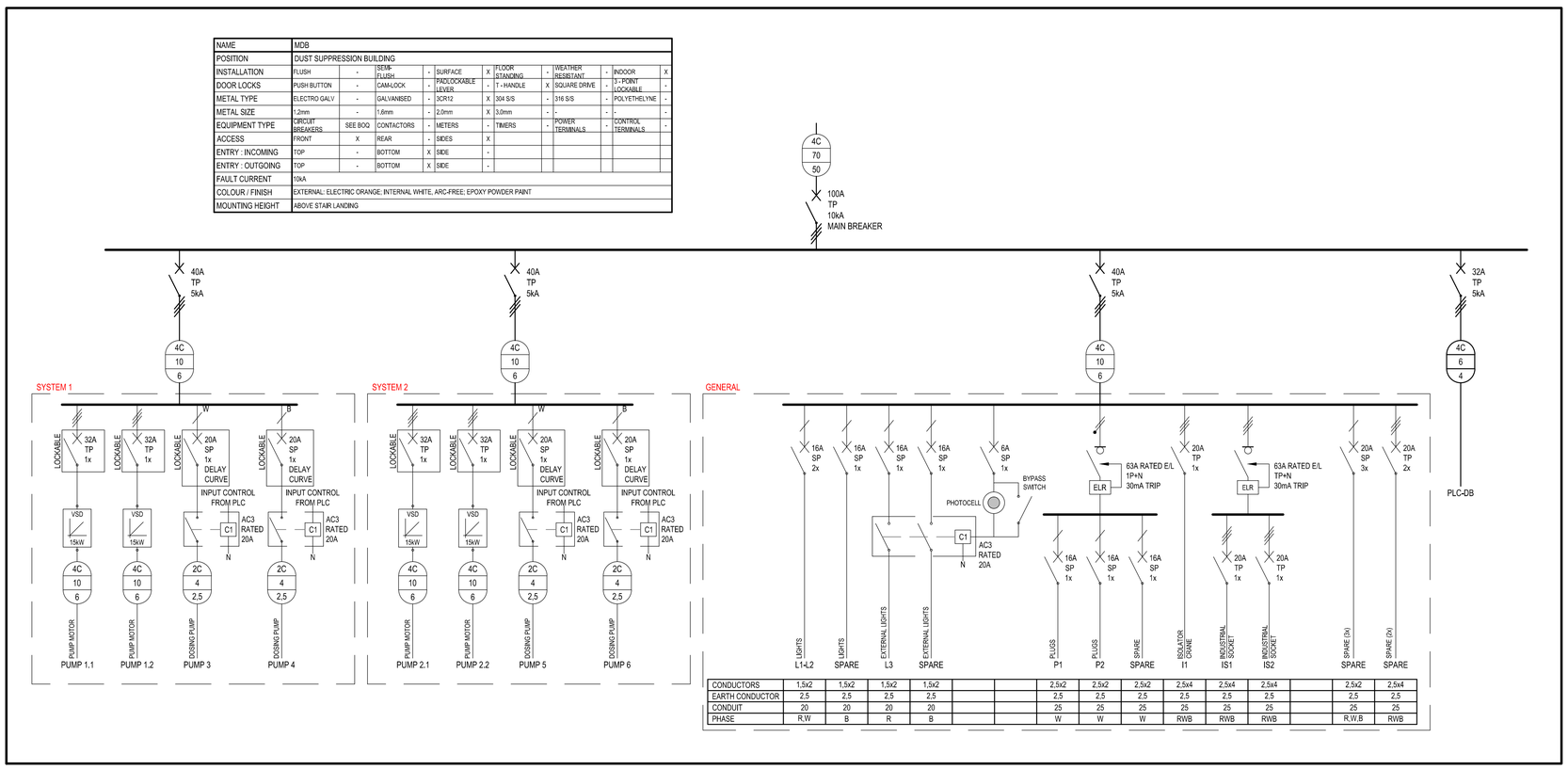
8) ALL HEIGHTS ARE GIVEN ABOVE FINAL FLOOR LEVEL.

9) AC MECHANICAL POINTS TO BE CONFIRMED BY THE MECHANICAL CONTRACTOR ON SITE.

10) ALL DISTRIBUTION BOARDS TO HAVE 30% SPARE CAPACITY FOR FUTURE ADDITIONS.

11) THE DESIGN ON THE DRAWING IS COPYRIGHT PROTECTED AND REMAINS THE PROPERTY OF THE ENGINEER.

NAME	MDB																
POSITION	DUST SUPPRESSION BUILDING																
INSTALLATION	FLUSH	-	SEMI-FLUSH	-	SURFACE	X	FLOOR STANDING	-	WEATHER RESISTANT	-	INDOOR	X					
DOOR LOCKS	PUSH BUTTON	-	CAM-LOCK	-	PADLOCKABLE LEVER	-	T - HANDLE	X	SQUARE DRIVE	-	3 - POINT LOCKABLE	-					
METAL TYPE	ELECTRO GALV	-	GALVANISED	-	3CR12	X	304 S/S	-	316 S/S	-	POLYETHELYNE	-					
METAL SIZE	1.2mm	-	1.6mm	-	2.0mm	X	3.0mm	-	-	-	-	-					
EQUIPMENT TYPE	CIRCUIT BREAKERS	SEE BOQ	CONTACTORS	-	METERS	-	TIMERS	-	POWER TERMINALS	-	CONTROL TERMINALS	-					
ACCESS	FRONT	X	REAR	-	SIDES	X											
ENTRY : INCOMING	TOP	-	BOTTOM	X	SIDE	-											
ENTRY : OUTGOING	TOP	-	BOTTOM	X	SIDE	-											
FAULT CURRENT	10kA																
COLOUR / FINISH	EXTERNAL: ELECTRIC ORANGE; INTERNAL WHITE, ARC-FREE; EPOXY POWDER PAINT																
MOUNTING HEIGHT	ABOVE STAIR LANDING																



CONDUCTORS	1,5x2	1,5x2	1,5x2	1,5x2			2,5x2	2,5x2	2,5x2	2,5x4	2,5x4	2,5x4		2,5x2	2,5x4
EARTH CONDUCTOR	2,5	2,5	2,5	2,5			2,5	2,5	2,5	2,5	2,5	2,5		2,5	2,5
CONDUIT	20	20	20	20			25	25	25	25	25	25		25	25
PHASE	R,W	B	R	B			W	W	W	RWB	RWB	RWB		R,W,B	RWB

0 10 50 100

NOTES / LEGEND

FOR TENDER PURPOSES

APPROVED BY TRANSNET RME

TRANSNET REPRESENTATIVE | REG. NO. | DATE

APPROVED BY TRANSNET PORT TERMINAL

TRANSNET REPRESENTATIVE | REG. NO. | DATE

AMENDMENTS CODE

A,B,C.../ : BEFORE TENDER
T0 / : TENDER DRAWING
0,1,2.../ : AFTER TENDER
2 / : AS BUILT

/A : BY CLIENT
/B : BY ARCHITECT
/C : BY MECHANICAL OR ELECTRICAL
/D : BY BVi
/E : BY OTHER ( )

DATE	INITIAL	No./CODE	REVISION DESCRIPTION
19/05/2017	W.B	0/D	FOR TENDER PURPOSES

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CLIENT

TRANSNET

PROJECT

TRANSNET ORE TERMINAL
DUST SUPPRESSION UNITS
BUILDING

DRAWING TITLE

PLANT BUILDING FOR NEW DUST SUPPRESSION UNIT:
SINGLE LINE DIAGRAMS

APPROVED BY BVi

ENGINEER/TECHNOLOGIST | 20080282 REG. NO. | 24/05/2017 DATE

SCALE	AS SHOWN	DRAWN	WB
DESIGNED	WB	CHECKED	GH

PLAN NUMBER	REVISION NO.	DATE SAVED
32887.00-312-01	0	24 May 2017

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