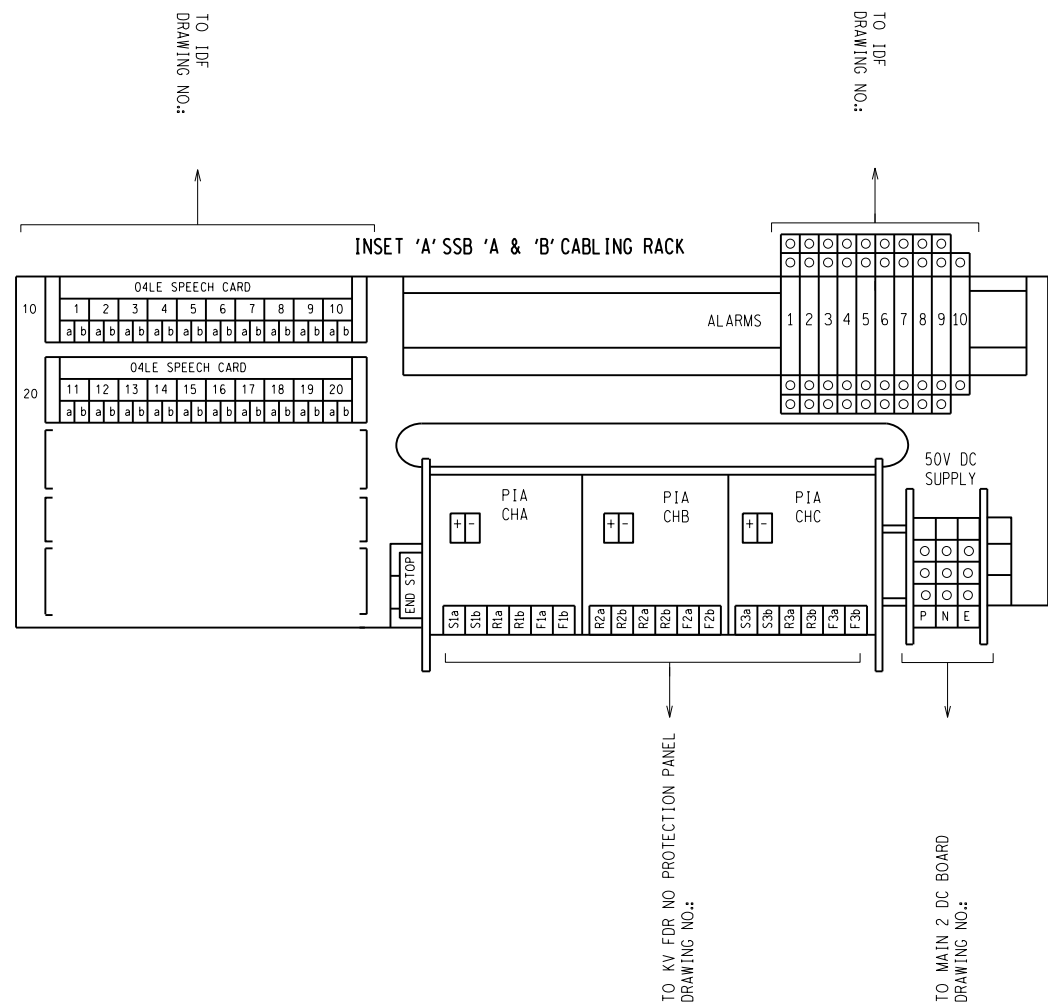



NOTE:

1. PLC CABINET MUST BE INSTALLED AS PER STANDARD FOR INSTALLATION OF A TELECOMMUNICATION EQUIPMENT CABINET



REV	REVISION TO MASTER	BY	CHKD	APP DATE

REV	REVISION DESCRIPTION				BY	CHKD	AUTH	DATE
PROJECT APPROVED	DESIGN APPROVED	 Eskom			Eskom Holdings SOC Ltd Reg No 2002/015527/30			
	T. GOSA1							
DATE	DATE: 11/09/2017	GENERAL POWER LINE CARRIER PANEL LAYOUT AND WIRING DIAGRAM						
PROJECT CHECKED	DESIGN CHECKED							
	M. TSHIKOSI							
DATE	DATE: 11/09/2017							
PROJECT DRAWN BY	DESIGN DRAWN BY	©						
	R. VILJOEN							
DATE	DATE: 18/07/2017							
SCALE								
					SHEET NUMBER	REVISION		
					1	0		

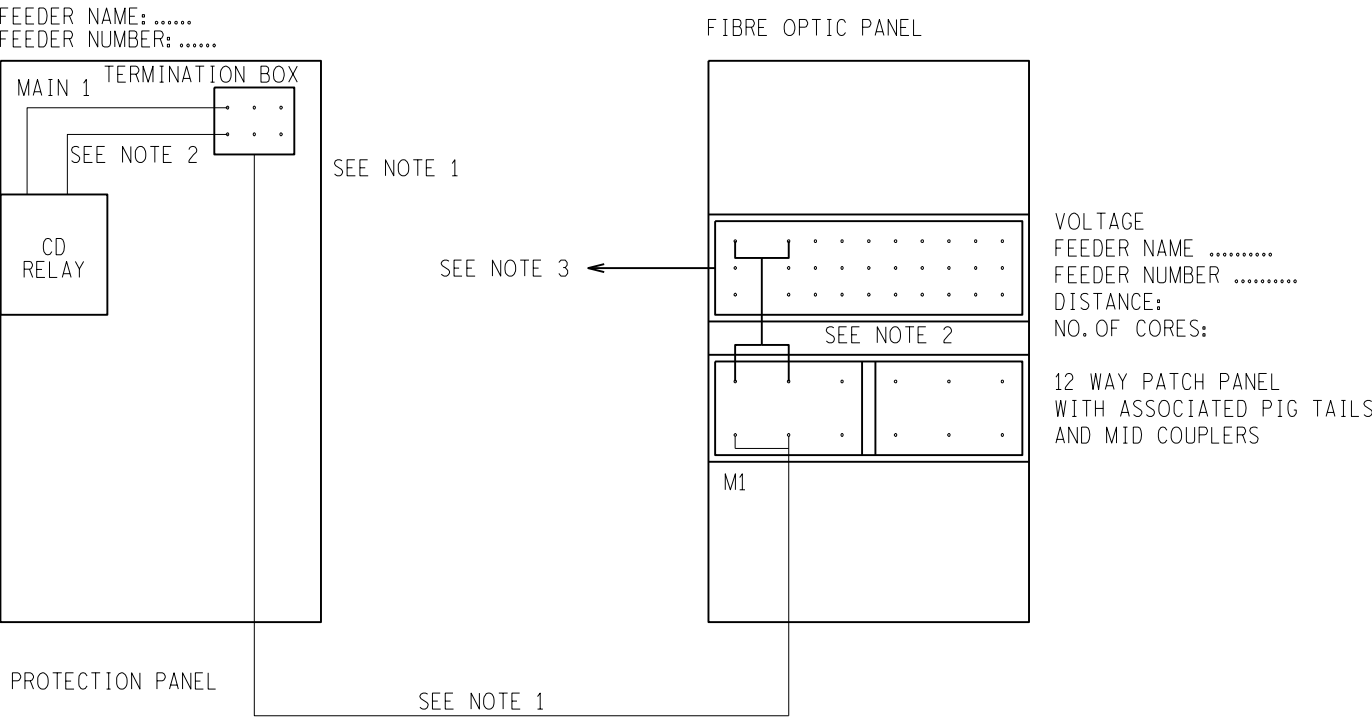
H

1. PLC/CUR DIFF/NSD570
2. LINE TRAP POSITION TO BE COMPILED BASED ON THE SUBSTATION & LINE PHASING DIAGRAM

REV	REVISION DESCRIPTION			BY	CHKD	AUTH	DATE
PROJECT APPROVED		DESIGN APPROVED		 Eskom		Eskom Holdings SOC Ltd Reg No 2002/015527/30	
		T. GOSAI					
DATE		DATE 11/09/2017					
PROJECT CHECKED		DESIGN CHECKED		© SINGLE LINE DIAGRAM			
		M. TSHIKOSI					
DATE		DATE 11/09/2017					
PROJECT DRAWN BY		DESIGN DRAWN BY					
		R. VILJOEN					
DATE		DATE 18/07/2017					
SCALE							
				SHEET NUMBER		REVISION	
				2		0	

SIZE  
GROOTTE A2L

IMPEDANCE & CURRENT DIFFERENTIAL ARRANGEMENT



LINE TRAP DETAILS	MAKE:	INDUCTANCE (mH)	CURRENT (A)
	FAULT CURRENT (kA):	BLOCKING BAND (kHz):	CREEPAGE (mm/kV):
	S/N:		
LME DETAILS	MAKE:	TYPE:	BLOCKING RANGE (kHz):
	S/N:		
CARRIER DETAILS	MAKE:	SIGNALING VOLTAGE:	OUTPUT POWER (W):
	DATA (YES/NO):	VOICE (YES/NO):	S/N:

\* NOTE TO BE COMPLETED ON SITE WHEN COMMISSIONING

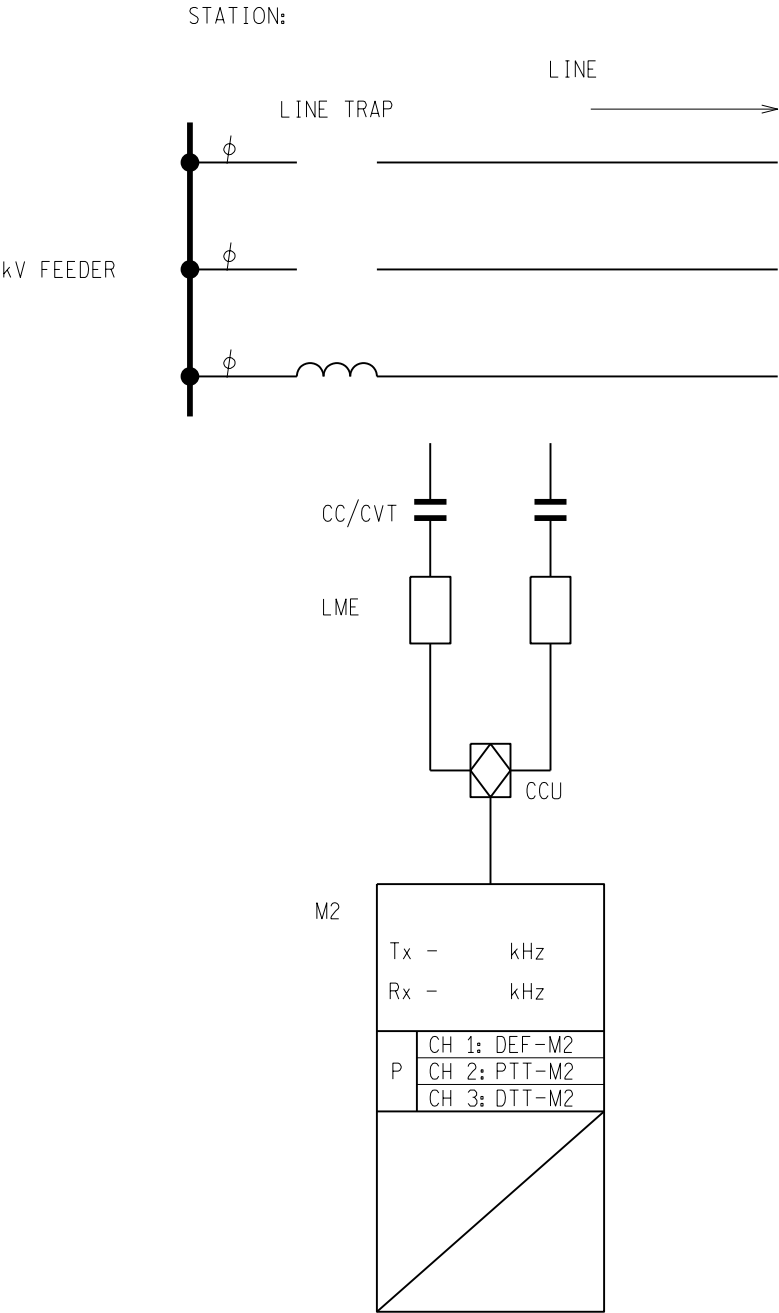
NOTES:


- RUNS IN THE CABLE TRENCH  
THE BEND RADIUS MUST BE NO LESS THAN 30mm  
- PIN HDPE OPTEX OR CLASS TUBING MUST BE USED  
- 8/12 CORE DUCT CABLE MUST BE USED  
ONLY 6 CORES ARE TERMINATED
- THE PATCH LEADS ARE USED BETWEEN THE RELAY  
AND THE TERMINATION BOX, AND BETWEEN PATCH PANELS
- FIBRE TO THE DISTANT END

LEGEND:

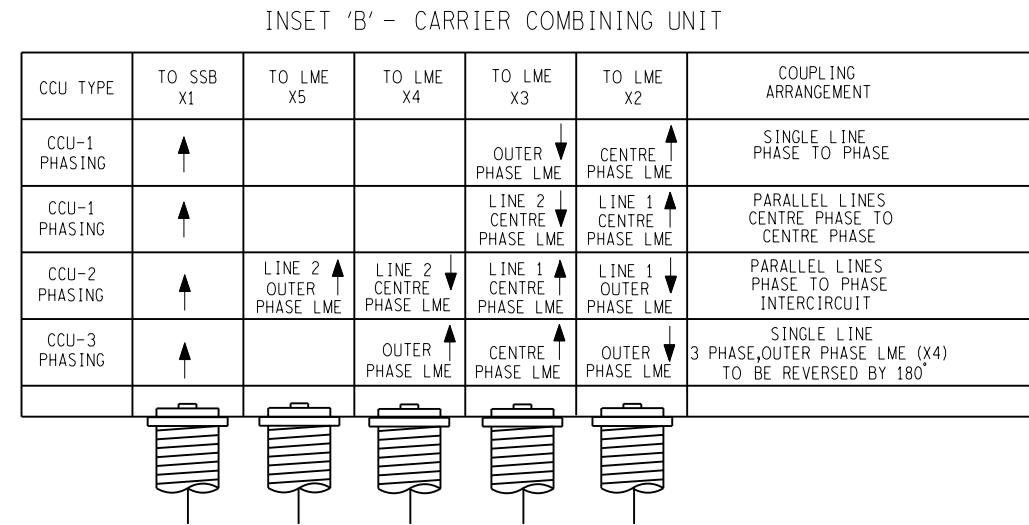
$\phi$  - PHASE  
 $\sim$  - LINE TRAP

LME - LINE MATCHING EQUIPMENT  
CC - COUPLING CAPACITOR  
CCU - CARRIER COMBINING UNIT  
CVT - CURRENT VOLTAGE TRANSFORMER



REV	REVISION TO MASTER		BY	CHKD	APP	DATE		
REV	REVISION DESCRIPTION		BY	CHKD	AUTH	DATE		
PROJECT APPROVED		DESIGN APPROVED	 Eskom		Eskom Holdings SOC Ltd Reg No 2002/015527/30			
DATE	DATE	11/09/2017						
PROJECT CHECKED		DESIGN CHECKED	TELEPROTECTION ARRANGEMENT					
		M. TSHIKOSI						
DATE	DATE	11/09/2017						
PROJECT DRAWN BY		DESIGN DRAWN BY	©					
		R. VILJOEN						
DATE	DATE	18/07/2017		SHEET NUMBER		REVISION		
SCALE					3	0		





INSET 'C'

COLOUR CODING OF THE TVH 25 AX CABLE  
SHOWING THE FUNTIONS ON THE CABLE PAIRS

PAIR No	SUB UNIT BLUE	FUNCTION
1	a BLUE	AF1-IN
	b WHITE	
2	a ORANGE	AF1-OUT
	b WHITE	
3	a GREEN	E-WIRE
	b WHITE	
4	a BROWN	M-WIRE
	b WHITE	
5	a GREY	LOCAL TRANSIT
	b WHITE	
6	a BLUE	PAX BLOCKING
	b RED	
7	a ORANGE	SPARE
	b RED	
8	a GREEN	PAX 2 WIRE
	b RED	
9	a BROWN	SPARE
	b RED	
10	a GREY	SUBSCRIBER
	b RED	

INSET 'D'

COLOUR CODING OF THE TVH 10 AX CABLE  
SHOWING THE FUNTIONS ON THE CABLE PAIRS

PAIR No	SUB UNIT BLUE	ALARM
1	a BLUE NC	HARDWARE ALARM
	b WHITE C	
2	a ORANGE NO	LINK ALARM
	b WHITE NC	
3	a GREEN C	LINK ALARM
	b WHITE NO	
4	a BROWN NC	CABINET ALARM
	b WHITE C	
5	a GREY NO	EARTH SPARE
	b WHITE	
6	a BLUE	SPARE
	b RED	
7	a ORANGE	SPARE
	b RED	
8	a GREEN	SPARE
	b RED	
9	a BROWN	SPARE
	b RED	
10	a GREY	SPARE
	b RED	

- [illegible]