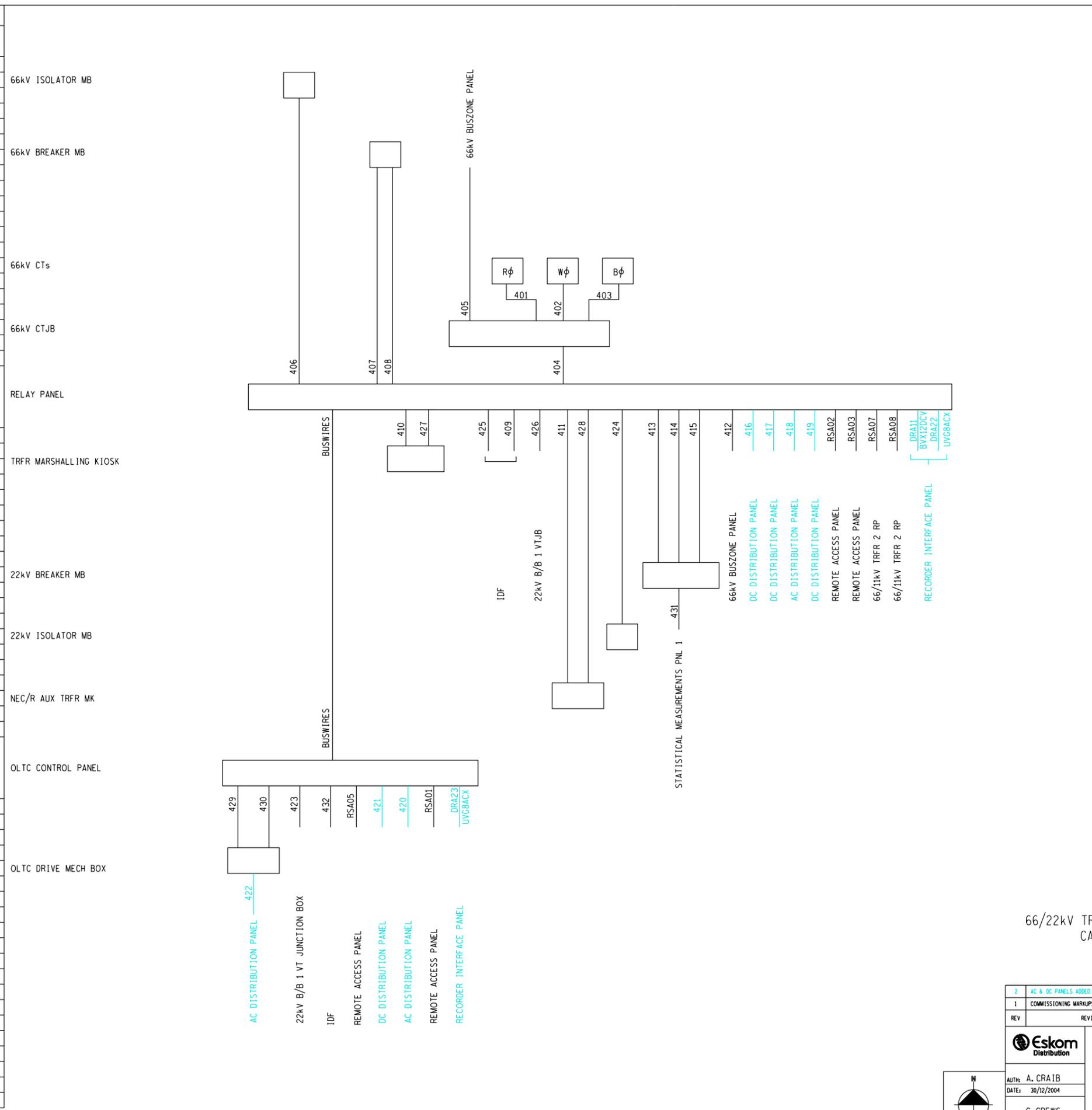




DRAWING REFERENCE NUMBERS	
	66/22kV TRFR 3 & 22kV FDR 1
ARRANGEMENT	
WIRING	
KEY	
CABLING	
ARRANGEMENT	66kV ISOLATOR MB
WIRING	
KEY	
CABLING	
ARRANGEMENT	66kV BREAKER MB
WIRING	D-DC-0133
KEY	
CABLING	
ARRANGEMENT	
WIRING	
KEY	
CABLING	
ARRANGEMENT	66kV CTs
WIRING	D-DC-0022
KEY	
CABLING	
ARRANGEMENT	
WIRING	
KEY	
CABLING	
ARRANGEMENT	66kV CTJB
WIRING	D-SR-102 SET 75 SHT 17
KEY	
CABLING	
ARRANGEMENT	
WIRING	
KEY	
CABLING	
ARRANGEMENT	RELAY PANEL
WIRING	D-SR-102 SET 75 SHT 1-17
KEY	
CABLING	
ARRANGEMENT	
WIRING	
KEY	
CABLING	
ARRANGEMENT	TRFR MARSHALLING KIOSK
WIRING	SERIAL NO. 302 8450
KEY	
CABLING	
ARRANGEMENT	
WIRING	
KEY	
CABLING	
ARRANGEMENT	22kV BREAKER MB
WIRING	D-DC-0133
KEY	
CABLING	
ARRANGEMENT	
WIRING	
KEY	
CABLING	
ARRANGEMENT	22kV ISOLATOR MB
WIRING	
KEY	
CABLING	
ARRANGEMENT	NEC/R AUX TRFR MK
WIRING	D-DC-0001
KEY	
CABLING	
ARRANGEMENT	
WIRING	
KEY	
CABLING	
ARRANGEMENT	OLTC CONTROL PANEL
WIRING	
KEY	
CABLING	
ARRANGEMENT	
WIRING	
KEY	
CABLING	
ARRANGEMENT	OLTC DRIVE MECH BOX
WIRING	
KEY	
CABLING	



CABLE No.	DESIGNATION TYPE	66/22 TRFR 3	
		PREFIX	G
401	BVX12DCV	*	
402	BVX12DCV	*	
403	BVX12DCV	*	
404	BVX12DCV	*	
405	BVX4ECV	*	
406	BVX4ECV	*	
407	BVX19DCV	*	
408	BVX19DCV	*	
409	TPH50AX	*	
410	BVX19DCV	*	
411	BVX12DCV	*	
412	BVX4ECV	*	
413	BVX19DCV	*	
414	BVX19DCV	*	
415	BVX12DCV	*	
416	BVX2ECV	*	
417	BVX2ECV	*	
418	BVX2ECV	*	
419	BVX2ECV	*	
420	BVX2ECV	*	
421	BVX2ECV	*	
422	BVX4ECV	*	
423	BVX4ECV	*	
424	BVX4ECV	*	
425	TPH25AX	*	
426	BVX4ECV	*	
427	BVX12DCV	*	
428	BVX4ECV	*	
429	BVX19DCV	*	
430	BVX19DCV	*	
431	BVX4ECV	*	
432	TPH25AX	*	

NOTE:  
1. \* INDICATES CABLES USED

66/22kV TRFR 3 & 22kV FDR 1  
CABLE BLOCK

SHEET NO.	REFERENCE DRAWINGS
SHEET 7	66kV FDR 1 & 2 CAB BLOCK
SHEET 6	11kV BUSSECTION CABLE BLOCK
SHEET 5	11kV FEEDERS CABLE BLOCK
SHEET 4	AUX CABLE BLOCK
SHEET 3	AUX CABLE BLOCK
SHEET 2	66/22kV TRFR 3 & 22kV FDR 1
SHEET 1	66/11kV TRFRS CABLE BLOCK

2	AC & DC PANELS ADDED	WH	SBT	AMAC	04/03/2013
1	COMMISSIONING MARKUPS	MG	LLZ	LLZ	29/05/2005
REV	REVISION DESCRIPTION	BY	CHD	AUTH	DATE

**Eskom Distribution**

AUTH: A. CRAIB  
DATE: 30/12/2004

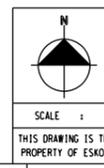
CHRD: G. CREWS  
DATE: 15/12/2004

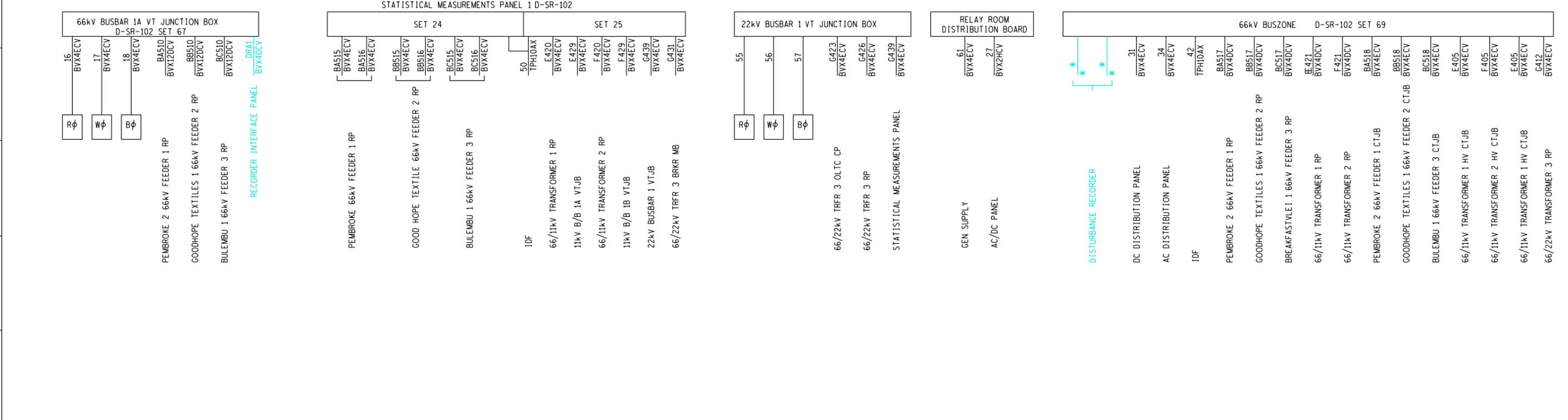
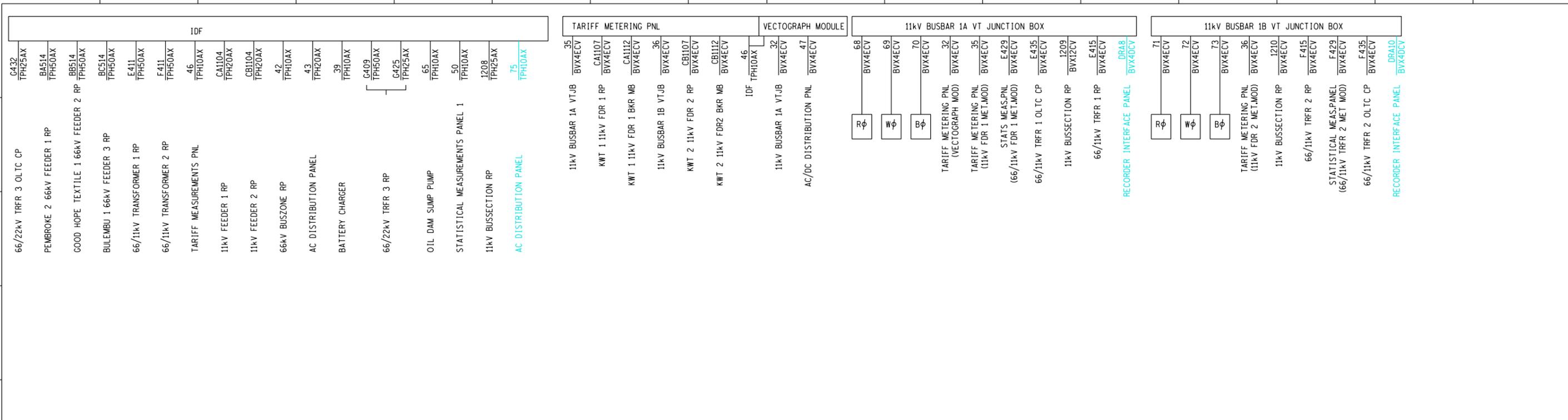
SCALE :  
THIS DRAWING IS THE PROPERTY OF ESKOM

**KING WILLIAMS TOWN**  
66/22kV TRFR 3 & 22kV FDR 1  
CABLE BLOCK DIAGRAM

D-SR-102

SET	SHEET	REVISION
	113	02
		2





SHEET 7	66kV FOR 1 & 2 CAB BLOCK
SHEET 6	11kV BUSSECTION CABLE BLOCK
SHEET 5	11kV FEEDERS CABLE BLOCK
SHEET 4	AUX CABLE BLOCK
SHEET 3	AUX CABLE BLOCK
SHEET 2	66/22kV TRFR 3 & 22kV FOR 1
SHEET 1	66/11kV TRFRS CABLE BLOCK
DRG NO.	REFERENCE DRAWINGS:

4	AC, DC & RECORDER PANEL ADDED	MH	SBT	AMAC	12/03/2013	
3	INDOOR SWITCHGEAR REPLACEMENT	BSA	BSA	AMAC	10/07/2007	
2	FEEDER NAME CHANGE	MG	LLZ	LLZ	29/05/2005	
1	TRFR 3 INSTALLED	LLZ	GHC	AMAC	15/11/2004	
REV	REVISION DESCRIPTION	BY	CHKD	AUTH	DATE	

AUTHORISED BY: S.TSHOBENI  
 DATE: 27/02/2002  
 CHECKED BY: S.TSHOBENI  
 DATE: 27/02/2002  
 DRAWN BY: JMB  
 DATE: 30/01/2002

**KING WILLIAMS TOWN S/S**  
**AUXILLIARIES CABLE BLOCK**

D-SR-102

SET	SHEET	REVISION
	113	03
		4

NOTE: TARIFF METERING CABLE BLOCK TO BE ADDED ON SITE.

CABLE No's. 1-15 IS SPARE  
 HIGHEST AUXILIARY CABLE No. USED : 73

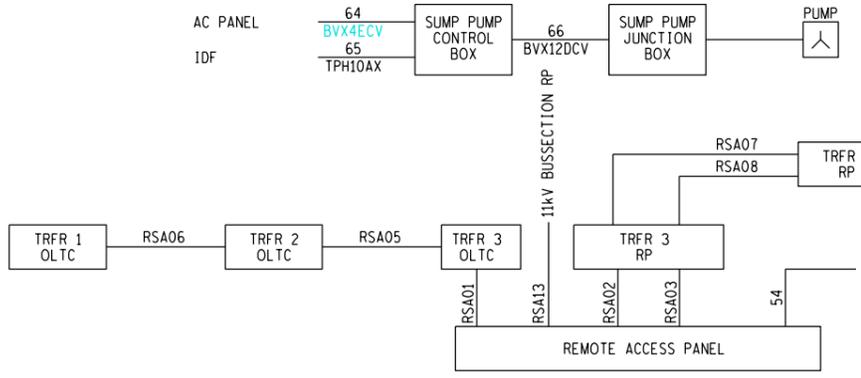
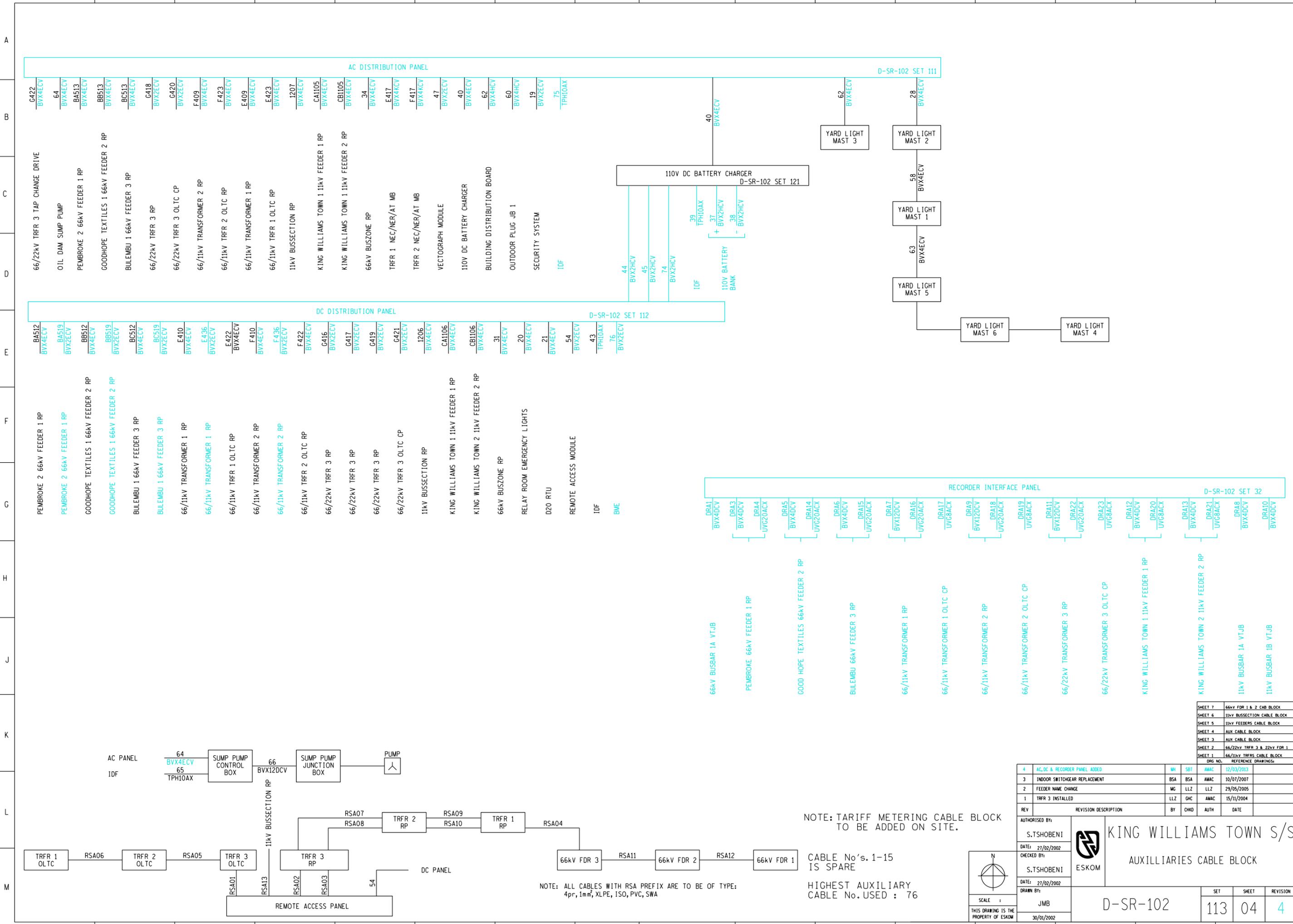
NOTE: ALL CABLES WITH RSA PREFIX ARE TO BE OF TYPE:  
 4pr, 1mm<sup>2</sup>, XLPE, ISO, PVC, SWA



SCALE : 1 : 1

THIS DRAWING IS THE PROPERTY OF ESKOM

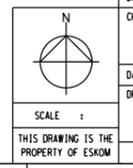
SIZE 0000TTE



NOTE: ALL CABLES WITH RSA PREFIX ARE TO BE OF TYPE:  
4pr, 1mm<sup>2</sup>, XLPE, ISO, PVC, SWA

NOTE: TARIFF METERING CABLE BLOCK TO BE ADDED ON SITE.

CABLE No's. 1-15 IS SPARE  
HIGHEST AUXILIARY CABLE No. USED : 76



REV	REVISION DESCRIPTION	BY	CHKD	AUTH	DATE
4	AC, DC & RECORDER PANEL ADDED	MS	SBT	AMAC	12/03/2013
3	INDOOR SWITCHGEAR REPLACEMENT	BSA	BSA	AMAC	10/07/2007
2	FEEDER NAME CHANGE	MG	LLZ	LLZ	29/05/2005
1	TRFR 3 INSTALLED	LLZ	GHC	AMAC	15/11/2004

AUTHORISED BY:		S.TSHOBENI	
DATE:	27/02/2002	CHECKED BY:	
S.TSHOBENI		S.TSHOBENI	
DATE:	27/02/2002	DRAWN BY:	
JMB		30/01/2002	

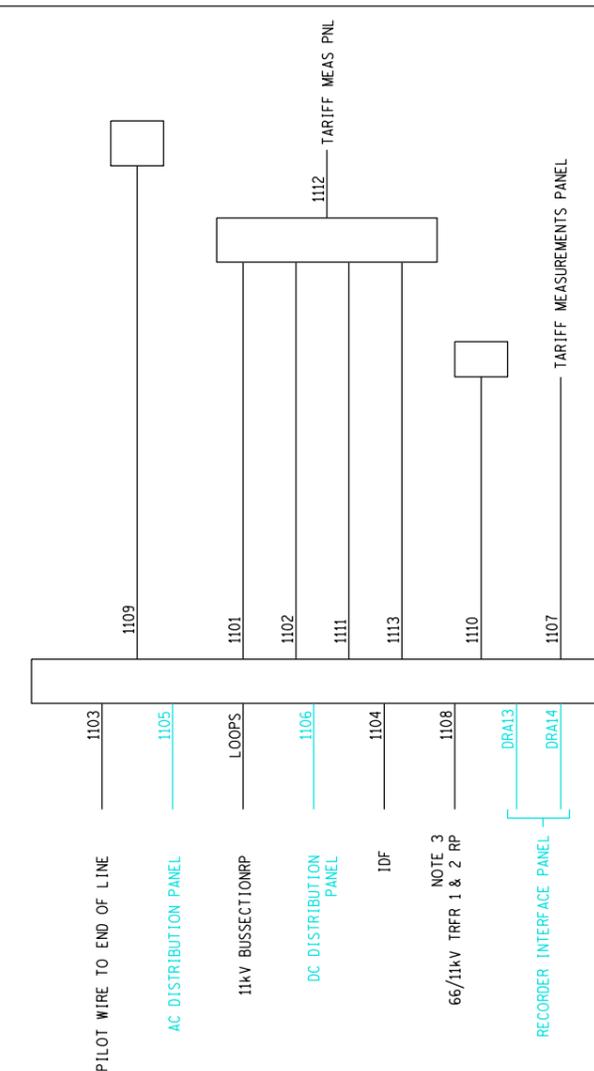
KING WILLIAMS TOWN S/S		AUXILLIARIES CABLE BLOCK	
D-SR-102		SET	SHEET
		113	04
		REVISION	4

SHEET 7	66kV FOR 1 & 2 CAB BLOCK
SHEET 6	11kV BUSSECTION CABLE BLOCK
SHEET 5	11kV FEEDERS CABLE BLOCK
SHEET 4	AUX CABLE BLOCK
SHEET 3	AUX CABLE BLOCK
SHEET 2	66/22kV TRFR 3 & 22kV FOR 1
SHEET 1	66/11kV TRFRS CABLE BLOCK

DRG NO.	REFERENCE DRAWINGS:
---------	---------------------

DRAWING REFERENCE NUMBERS	
ARRANGEMENT	11kV FDR 1 & 2
WIRING	
KEY	
CABLING	
ARRANGEMENT	914329D3,D1
WIRING	
KEY	
CABLING	
ARRANGEMENT	D-DC-0040
WIRING	
KEY	
CABLING	
ARRANGEMENT	D-SR-102 SETS 101/102 SHT 0-1
WIRING	
KEY	D-SR-102 SETS 101/102/ SHT 2-6
CABLING	D-SR-102 SETS 101/102 SHT 7
ARRANGEMENT	
WIRING	
KEY	
CABLING	
ARRANGEMENT	
WIRING	
KEY	
CABLING	
ARRANGEMENT	
WIRING	
KEY	
CABLING	
ARRANGEMENT	
WIRING	
KEY	
CABLING	
ARRANGEMENT	
WIRING	
KEY	
CABLING	
ARRANGEMENT	
WIRING	
KEY	
CABLING	
ARRANGEMENT	
WIRING	
KEY	
CABLING	

11kV BUSBAR ISOLATOR  
 11kV BREAKER MB  
 11kV LINE ISOLATOR  
 PROTECTION RELAY PANEL



CABLE No.	DESIGNATION PREFIX TYPE	11kV FDR 1	11kV FDR 2
		CA	CB
1101	BVX19DCV	*	*
1102	BVX12DCV	*	*
1103	BVX4ECV	*	*
1104	TPH2OAX	*	*
1105	BVX4ECV	*	*
1106	BVX4ECV	*	*
1107	BVX4ECV	*	*
1108	BVX4ECV	*	*
1109	BVX4ECV	*	*
1110	BVX4ECV	*	*
1111	BVX12DCV	*	*
1112	BVX4ECV	*	*
1113	BVX4ECV	*	*

NOTE:  
 1. \* INDICATES CABLES USED.  
 2. ALL CABLES WITH RSA PREFIX ARE TO BE OF TYPE:  
 4pr, 1sq mm, XLPE, ISO, PVC, SWA  
 3. CABLE CA1108 WILL BE GOING TO TRFR 1  
 & CABLE CB1108 WILL BE GOING TO TRFR 2

SHEET NO.	REFERENCE DRAWINGS
SHEET 7	66kV FDR 1 & 2 CAB BLOCK
SHEET 6	11kV BUSSECTION CABLE BLOCK
SHEET 5	11kV FEEDERS CABLE BLOCK
SHEET 4	AUX CABLE BLOCK
SHEET 3	AUX CABLE BLOCK
SHEET 2	66/22kV TRFR 3 & 22kV FDR 1
SHEET 1	66/11kV TRFRS CABLE BLOCK

1	RECORDER INTERFACE PANEL ADDED	MH	SBT	AMAC	04/03/2013
REV	REVISION DESCRIPTION	BY	CHKD	AUTH	DATE

**Eskom** Distribution

**KING WILLIAMS TOWN S/S**  
 11kV FEEDERS  
 CABLE BLOCK DIAGRAM

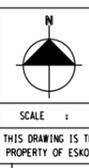
Auth: A. CRAIB  
 DATE: 15/04/2007

CHRD: BSA  
 DATE: 30/03/2007

DRAWN: BSA  
 DATE: 15/03/2007

D-SR-102

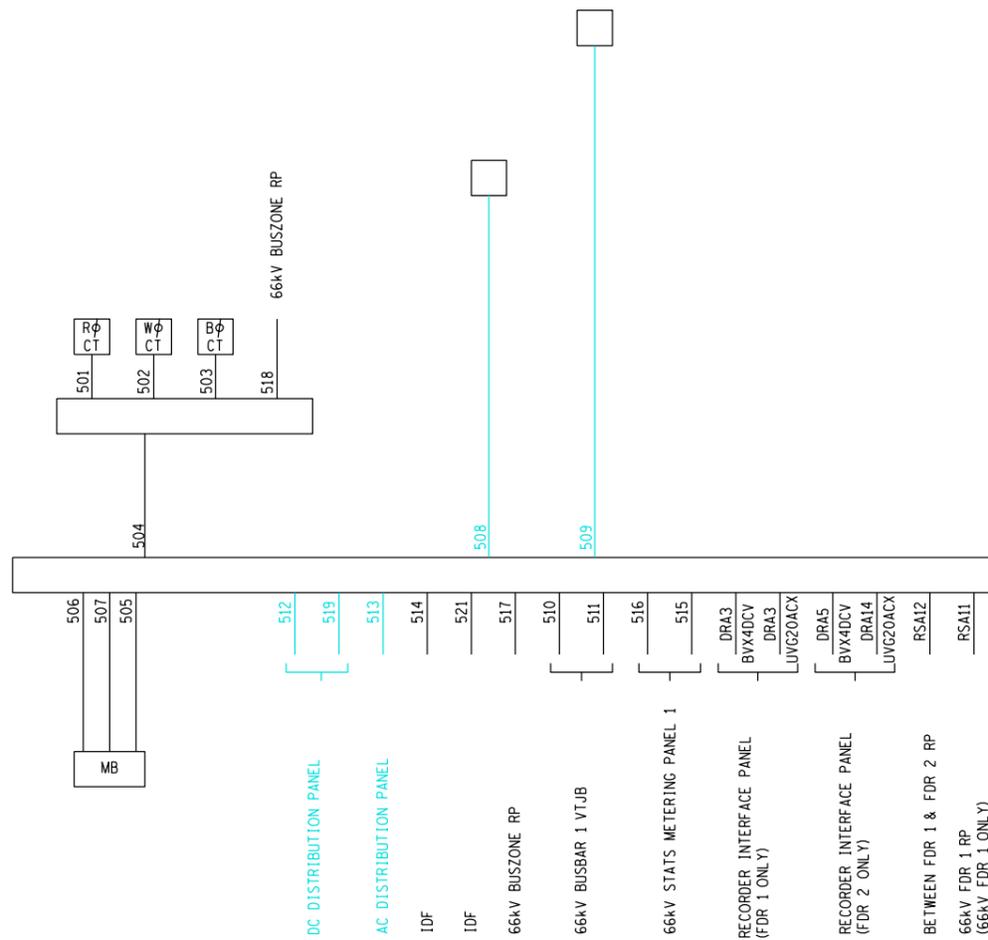
SET	SHEET	REVISION
113	05	1



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DRAWING REFERENCE NUMBERS		FEEDER 1	FEEDER 2	
WIRING				
KEY				
CABLING				
WIRING	D-DC-0040 SHT 2 REV 4	D-DC-0040 SHT 2 REV 4		66kV LINE ISOLATOR MB
KEY				
CABLING				
WIRING				
KEY				
CABLING				
WIRING	D-DC-0040 SHT 2 REV 4	D-DC-0040 SHT 2 REV 4		66kV B/B 1A ISOLATOR MB
KEY				
CABLING				
WIRING				
KEY				
CABLING				
WIRING	D-DC-0022 SHT 3 REV 2	D-DC-0023 SHT 3 REV 2		66kV CTs
KEY				
CABLING				
WIRING				
KEY				
CABLING				
WIRING				
KEY				
CABLING	D-SR-102 SET 61 SHT 22	D-SR-102 SET 62 SHT 22		CT JB
WIRING				
KEY				
CABLING				
ARRANGEMENT	D-SR-102 SET 61 SHT 1	D-SR-102 SET 62 SHT 1		RELAY PANEL
KEY	SHT 4-16	SHT 4-16		
CABLING	SHT 17-19	SHT 17-19		
ARRANGEMENT				
WIRING				
KEY				
CABLING				
ARRANGEMENT				
WIRING	D-DC-0032	D-DC-0032		BREAKER MB
KEY				
CABLING				



CABLE DESIGNATION No.	PREFIX TYPE	FDR 1	FDR 2
		BA	BB
501	BVX12DCV	*	*
502	BVX12DCV	*	*
503	BVX12DCV	*	*
504	BVX12DCV	*	*
505	BVX2ECV	*	*
506	BVX19DCV	*	*
507	BVX19DCV	*	*
508	BVX12DCV	*	*
509	BVX12DCV	*	*
510	BVX12DCV	*	*
511			
512	BVX4ECV	*	*
513	BVX2ECV	*	*
514	TPH10AX	*	*
515	BVX4ECV	*	*
516	BVX4ECV	*	*
517	BVX4DCV	*	*
518	BVX4ECV	*	*
519	BVX2ECV	*	*
520			
521	TPH50AX	*	*

- NOTE :
- \* DENOTES CABLES USED.
  - ALL CABLES WITH RSA PREFIX TO BE OF TYPE: 4Pr, 1mm<sup>2</sup>, XLPE, ISO, PVC, SWA
  - X21 CABLE TO BE MYLAR CABLE SUPPLIED BY ESKOM EDFS

SHEET 7	66kV FDR 1 & 2 CAB BLOCK
SHEET 6	11kV BUSSECTION CABLE BLOCK
SHEET 5	11kV FEEDERS CABLE BLOCK
SHEET 4	AUX CABLE BLOCK
SHEET 3	AUX CABLE BLOCK
SHEET 2	66/22kV TRFR 3 & 22kV FDR 1
SHEET 1	66/11kV TRFRS CABLE BLOCK
DRG NO.	REFERENCE DRAWINGS:

REV	REVISION DESCRIPTION	BY	CHKD	AUTH	DATE	PROJECT NO.

**KING WILLIAMS TOWN SUBSTATION**  
66kV FEEDER 1 & 2  
CABLE BLOCK DIAGRAM

SCALE N.T.S.  
 THIS DRAWING IS THE PROPERTY OF ESKOM

AUTH: A.CRAIB  
DATE: 01/11/2012

CHKD: M.HLOMA  
DATE: 01/11/2012

DRWN: N.SISHUBA  
DATE: 29/10/2012

D-SR-102

SET	SHEET	REVISION
113	07	0