

EBHR: Emergency Brake Hold Relay  
 OSR: Speed Relay  
 WER: West rail Emergency Brake Relay  
 EEBR: East rail Emergency Brake Relay  
 EBCB: Emergency Brake Control Relay  
 DLSR: Driverless Relay  
 EBBB: Emergency Brake Bypass Switch  
 HCDR: Hostler Consist Detect Switch  
 BKB: Brake valve Breaker  
 RCB: Rescue Control Breaker  
 BCCB: Brake Control Circuit Breaker  
 VOB: VOBc Breaker  
 ATPS: ATP cutout Switch  
 ATPR: ATP Reverse switch

EBBR: Emergency Brake Hold Relay  
 BPPS: Brake Pipe Pressure Switch  
 BPPR: Brake Pipe Pressure Relay  
 MRRP: Main air Reservoir pipe Pressure Switch  
 MRP: Main air Reservoir pipe Pressure Relay  
 EBMV: Emergency Brake Magnetic Valve  
 RestS: Rescue Switch  
 ResS: Rescue Switch  
 RMMR: Restricted Manual Mode Relay  
 BCU: Brake Control Unit  
 BECU: Brake Electronic Control Unit  
 ReAR: Rescue mode Aux.Relay  
 ReMS: Rescue Mode Switch  
 BPMV: Brake Pipe Magnet Valve

LSS: LINE SELECTION SWITCH  
 RCB: RESCUE CONTROL CIRCUIT BREAKER  
 EBHR: DOOR CHIME RELAY



OPERATION DIVISION

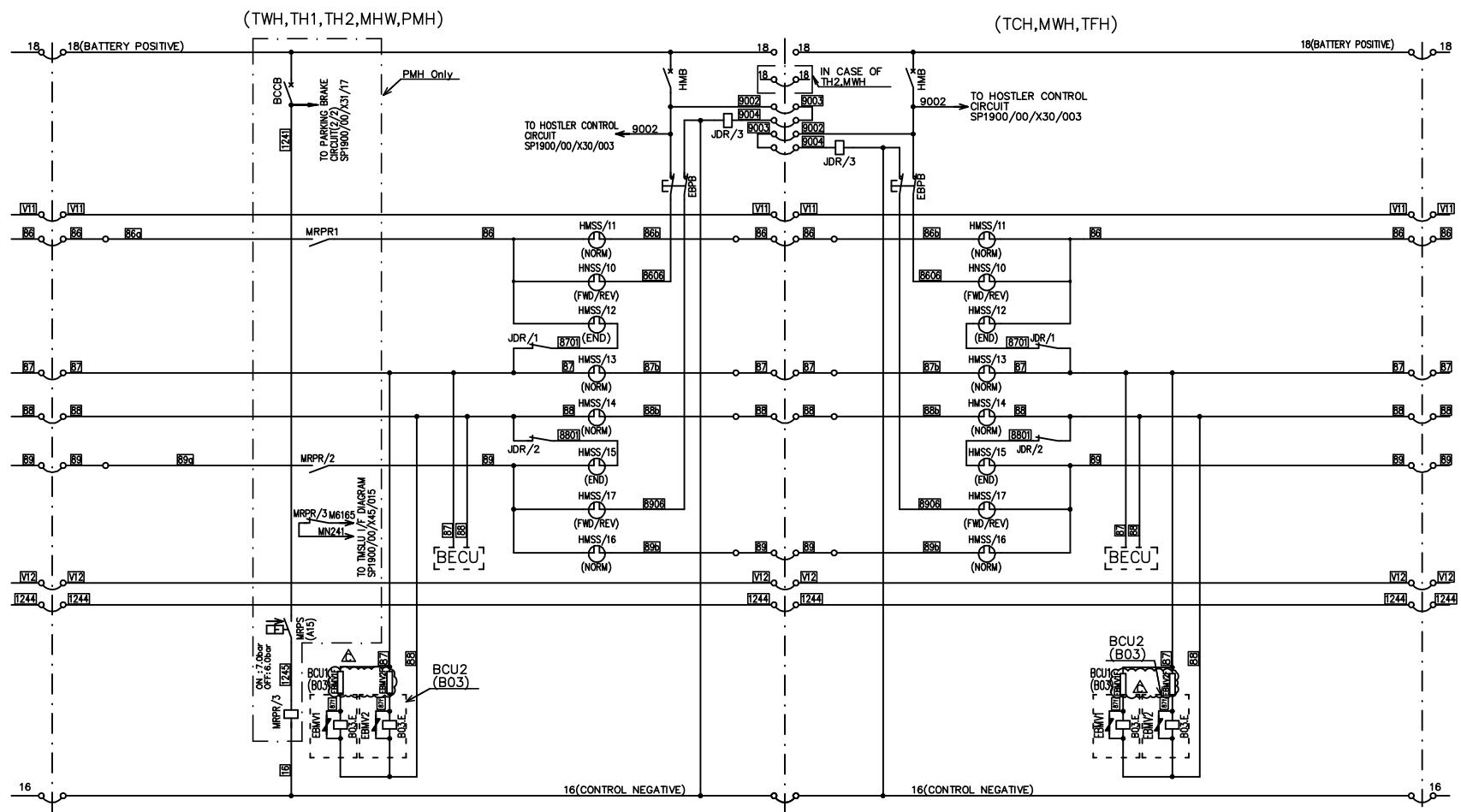
TECHNICAL & ENGINEERING SERVICES DEPARTMENT

TITLE  
SP1900 ELECTRIC MULTIPLE UNITS  
ELECTRICAL SCHEMATIC  
EB CIRCUIT (1/4)

REV	DESCRIPTION	BY	DATE	APPROVED	REV	DESCRIPTION	BY	DATE	APPROVED	SCALE	NTS	DRAWING NO.	REV.
E	ZML15280 FLEET IMPLEMENTATION OF FUSES TO THE EB CIRCUIT ON SP TRAINS	C CHAU	22/01/21	S WONG	----	DRAWN	R LAW						
D	ZML11972 PROVISION OF WARNING MESSAGE DURING BRAKE APPLICATION ON SP TRAIN	LIU HM	21/06/13	L WONG	CHECKED	DESIGNED	R LEUNG						
C	REDRAWN TO STANDARDISED TITLE BLOCK	R LAW	15AU012	L WONG	APPROVED	ORIGINATOR							
B	M485 MOD UPDATED	Y.S.	310C07	C.C.	DATE								
A	FIRST ISSUE	SRD	26JAN07	C.C.									

DRAWING SHEET NUMBER: 04\_372\_100345\_0001\_E.DWG  
 CONTRACTOR REFERENCE NO.: 2P705011-5700  
 KCRC REFERENCE NO.: SP1900AB/IF/BR/M500  
 CADD REF.: 04\_372\_100345\_0001\_E.DWG

E



EBMV: Emergency Brake Magnetic Valve

JDR : Jumper Detect Relay

MRPS: Mein air Reservoir pipe Pressure Switch

MRPR: Mein air Reservoir pipe Pressure

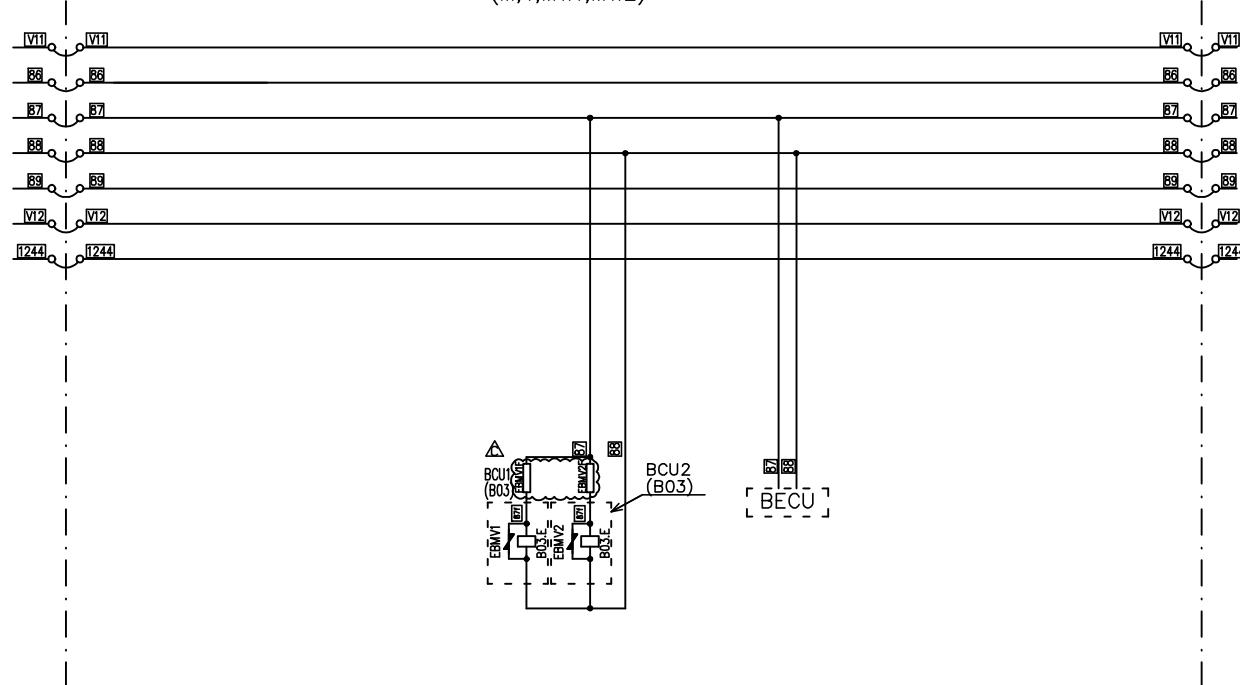
BCCB: Brake Cont

CIB: C/I Breaker

BCU:Brake Control Unit

REM:  SHOWS YELLOW CABLES

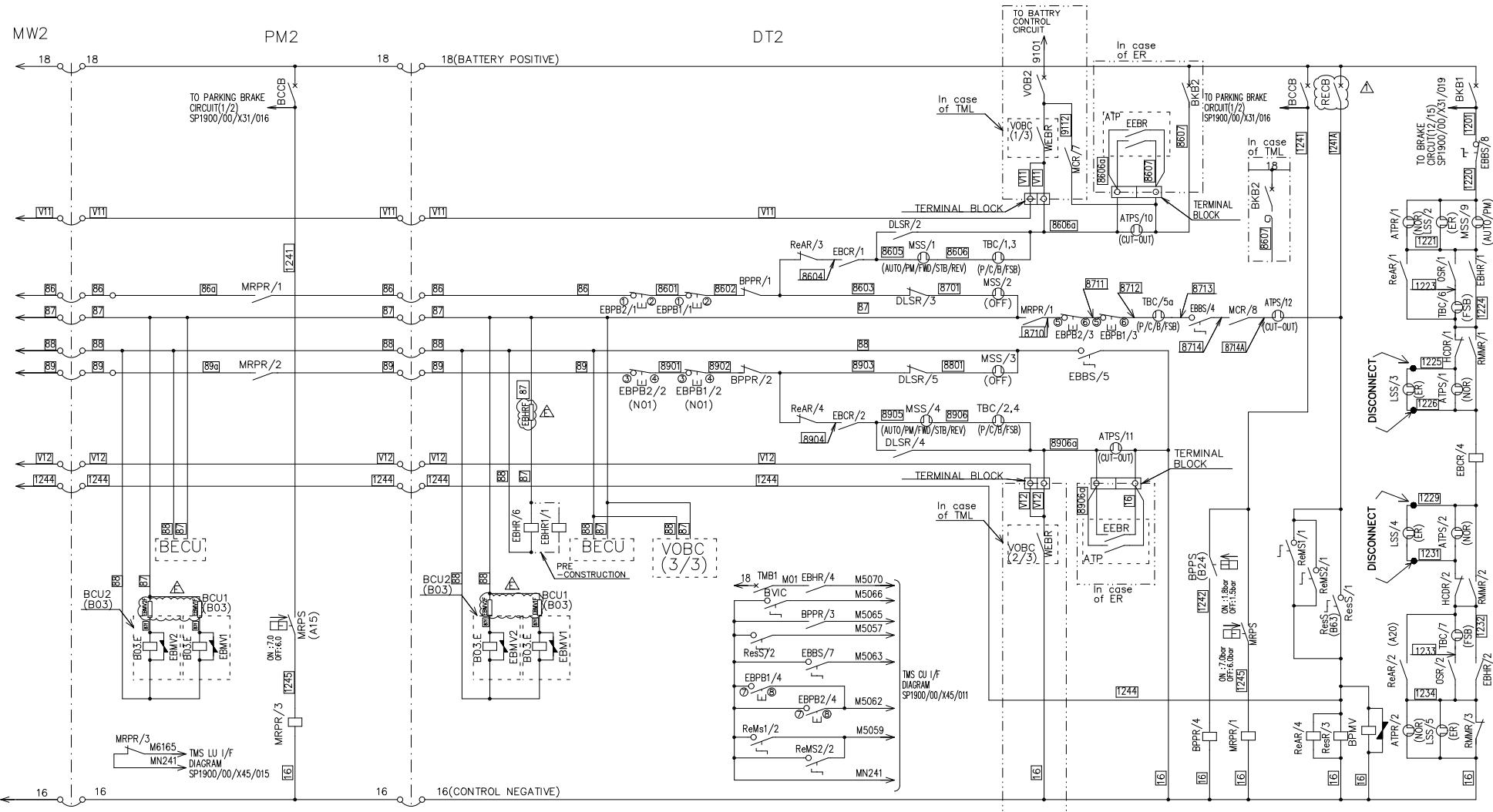
(M,T,MW1,MW2)



EBMV: Emergency Brake Magnetic Valve  
 CIB: C/I Breaker  
 BCU: Brake Control Unit  
 BECU: Brake Electronic Control Unit

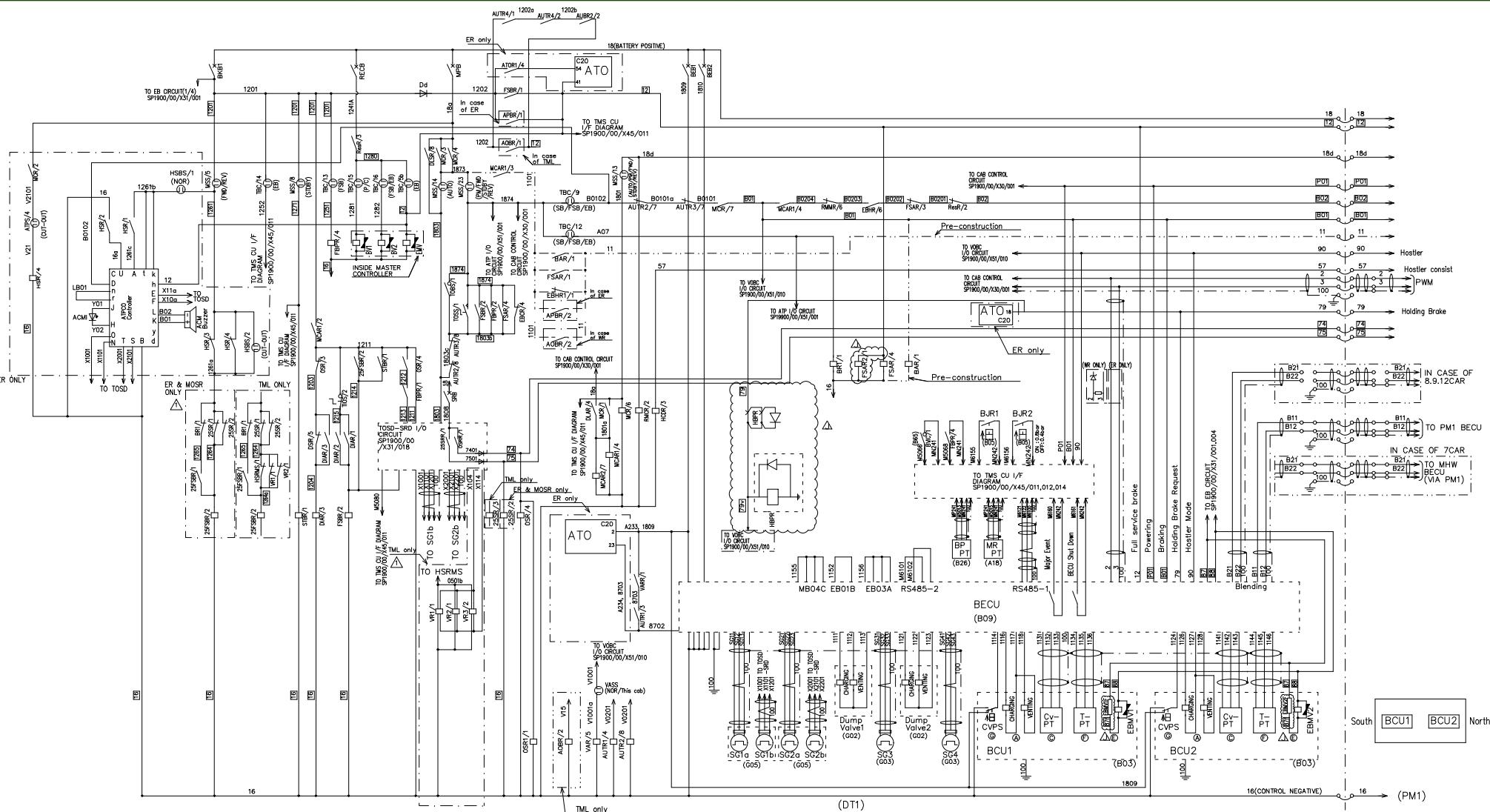
REM: [ ] SHOWS YELLOW CABLES

REV	DESCRIPTION	BY	DATE	APPROVED	REV	DESCRIPTION	BY	DATE	APPROVED	DRAWN		R LAW	MTR		CONTRACTOR REFERENCE NO.	KCRC REFERENCE NO.	TITLE		
										C	ZML15280 FLEET IMPLEMENTATION OF FUSES TO THE EB CIRCUIT ON SP TRAINS	C CHAU	23.01.25	S WONG	DESIGNED	-----	ORIGINATOR	OPERATION DIVISION	TECHNICAL & ENGINEERING SERVICES DEPARTMENT
										R LAW	15AUG12	L WONG		DRAFTING SHEET NUMBER: ALL DIMENSIONS SHALL BE SHOWN ON THE DRAWING. THIS DRAWING IS THE PROPERTY OF THE DRAWER / DESIGNER AND IS OWNED BY THE CONTRACTOR. UNauthorISSED COPIES OR REPRODUCTION OF THIS DRAWING / DOCUMENT IS FORBIDDEN BY LAW. REPRODUCTION OF THE DRAWING / DOCUMENT OR ANY PART THEREOF IS FORBIDDEN WITHOUT THE WRITTEN CONSENT OF THE MTR CORPORATION LIMITED.	2P7055175-5700	SP1900AB/F/RR/M5002	SP1900 ELECTRIC MULTIPLE UNITS ELECTRICAL SCHEMATIC EB CIRCUIT (3/4)		
	A FIRST ISSUE						SRD	26JUN07	C.C.						CADD REF.	004_372_100345_0003_C.dwg	SCALE NTS	DRAWING NO. OD4/372/100345/0003	REV. C



REM1: ABB Refer to EB CIRCUIT (1/4)  
REM2: [ ] SHOWS YELLOW CABLES

REV	DESCRIPTION	BY	DATE	APPROVED	REV	DESCRIPTION	BY	DATE	APPROVED	DRAWN	R LAW	MTR OPERATION DIVISION	TECHNICAL & ENGINEERING SERVICES DEPARTMENT	TITLE
										DESIGNED	CHECKED			
F	ZML15280 FLEET IMPLEMENTATION OF FUSES TO THE EB CIRCUIT ON SP TRAINS	C CHAU	23/01/25	S WONG	-----	R LAW	-----	-----	-----	-----	-----	-----	-----	SP1900 ELECTRIC MULTIPLE UNITS
D	ZML6957 PROVISION OF SPEED LIMIT IN ATP CUTOUT MODE ON EAL SP1900 TRAINS	LIU HM	21/06/13	L WONG	APPROVED	R LEUNG	-----	-----	-----	-----	-----	-----	-----	ELECTRICAL SCHEMATIC
C	REDRAWN TO STANDARDISED TITLE BLOCK	R LAW	15AUG12	L WONG	-----	-----	-----	-----	-----	-----	-----	-----	-----	EB CIRCUIT (4/4)
B	M485 MOD UPDATED	Y.S.	31/07/07	C.C.	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
A	FIRST ISSUE	S RD	26/06/07	C.C.	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
DRAWING REF. 04_372_100345_0004										2D7055012-5700	SP1900AB/I/F/BR/M503	-----	-----	-----
CADD REF. 04_372_100345_0004										-----	-----	-----	-----	-----



OSR1:0km/h Speed Relay  
 OSR1:0km/h Speed Relay  
 25SFR:25km/h over Full Service Brake Relay  
 25RM:25km/h Speed Relay  
 ACOS: ATP Cut Out Switch  
 ACER: ATO Brake Relay  
 ACER: ATO Brake Relay  
 AUTR: AUTOMATIC DECELERATION RELAY  
 BAR: Brake Auto Release  
 BCPS: Brake Cylinder Pressure Switch  
 ACM : ATP CUTOUT MODE INDICATOR  
 ACMB : ATP CUTOUT MODE BUZZER  
 ATPCO : ATP CUTOUT MODE CONTROLLER  
 HSBS : High Speed Mode By-pass Switch  
 HSR : High Speed Mode Relay

BCU: Brake Control Unit  
 BEB: BECU Breaker  
 BECU: Brake Electronic Control Unit  
 BES: Bypass Emergency brake Switch  
 DLAR: Driver Less mode Aux. Relay  
 BPPT: Brake Pipe Pressure Transducer  
 BVC: Brake Pipe Venting Isolation Controller  
 BR:Braking Relay  
 BKB: Brake Valve Breaker  
 AUBR: Auto Brake Relay  
 VAAR: VOBG Active Aux. Relay  
 VASS: VOBG Active Selector Switch

DIAR:Door safety Interlock Aux. Relay  
DLSR:Driver LeSS mode Relay  
DSIR:Door Safety Interlock Relay  
EBCR:Emergency brake Control Relay  
EBHR:Emergency brake Hold Relay  
FBPR:Full service Position Relay  
FSAR:Full Service Aux. Relay  
FSBR:Full Service Brake Relay  
HCSR:Hostler Consist Detect Relay  
HBPR:Holding Brake Repeater Relay

LSS:Line Selection Switch  
MCA:Master Controller Aux. Relay  
MCR:Master Controller Relay  
MPB:Master controller Power Breaker  
MPT:Master pressure Reserve pressure Transducer  
MSD:Mode Selector Switch  
RMR:Rear Master Controller reverse Relay  
RCB:Break Rescuer Breaker  
SG:Speed Generator  
SRE:lost SRd Breaker

STBR: STandBy mode Relay  
TBC: Traction Brake Controller  
TIOS: Traction Interlock Override Switch  
TOSS: Train Operator Safety device Switch  
VAR: Vorb Active Relay  
VR1,2,3: HSRM Velocity Relay  
Resk: Rescue Relay  
BV1: Charging MV  
BV2: Discharging MV  
EMV: Emergency Brake mV

ReAR:Rescue mode Aux.Relay  
REM1:  SHOWS YELLOW CABLES

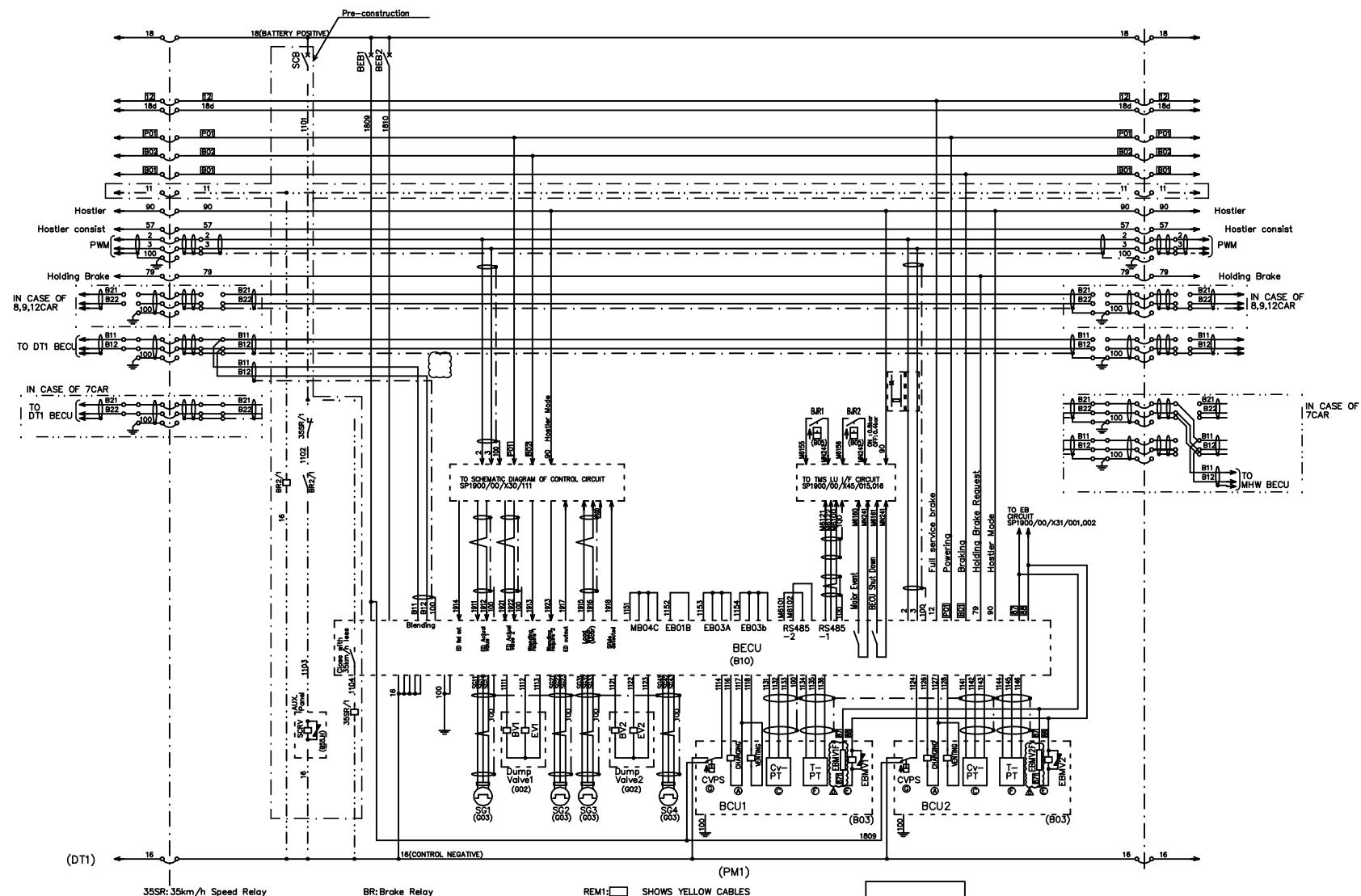
J	ZML15281 FLEET IMPLEMENTATION OF PURES TO THE EB CIRCUIT ON SP TRAINS, ZML15281 FLEET REVISION OF PURES TO THE AVAILABLE 8V/16V EB CIRCUIT AND IMPLEMENTATION OF PARALLEL CONTACT TO THE CAB, YAL13306 REPEATER RELAY CIRCUIT	C CHAU	27/01/25 S VONG
I	REVISED AS PER EBCD ALU0059 - PRODUCE BRAKE JAW INDICATOR ON SP1900 & SP1950 TRAINS	LIU HM	25/01/16 F NGAI
H	REVISED PTC FOR SP1900 & SP1950 TRAINS TO ADDITION OF WARNING MESSAGE DURING EMERGENCY BREAK APPLICATION IN SP1900 TRAINS	LIU HM	25/01/16 F NGAI
REV.	DESCRIPTION	BY	DATE APPROVED



OPERATIONS DIVISION      TECHNICAL & ENGINEERING SERVICES DEPARTMENT

**SP1900 ELECTRIC MULTIPLE UNITS  
ELECTRICAL SCHEMATIC  
BRAKE CIRCUIT (1/15)**

SCALE NTS DRAWING NO. 0D4/372/100345/0005

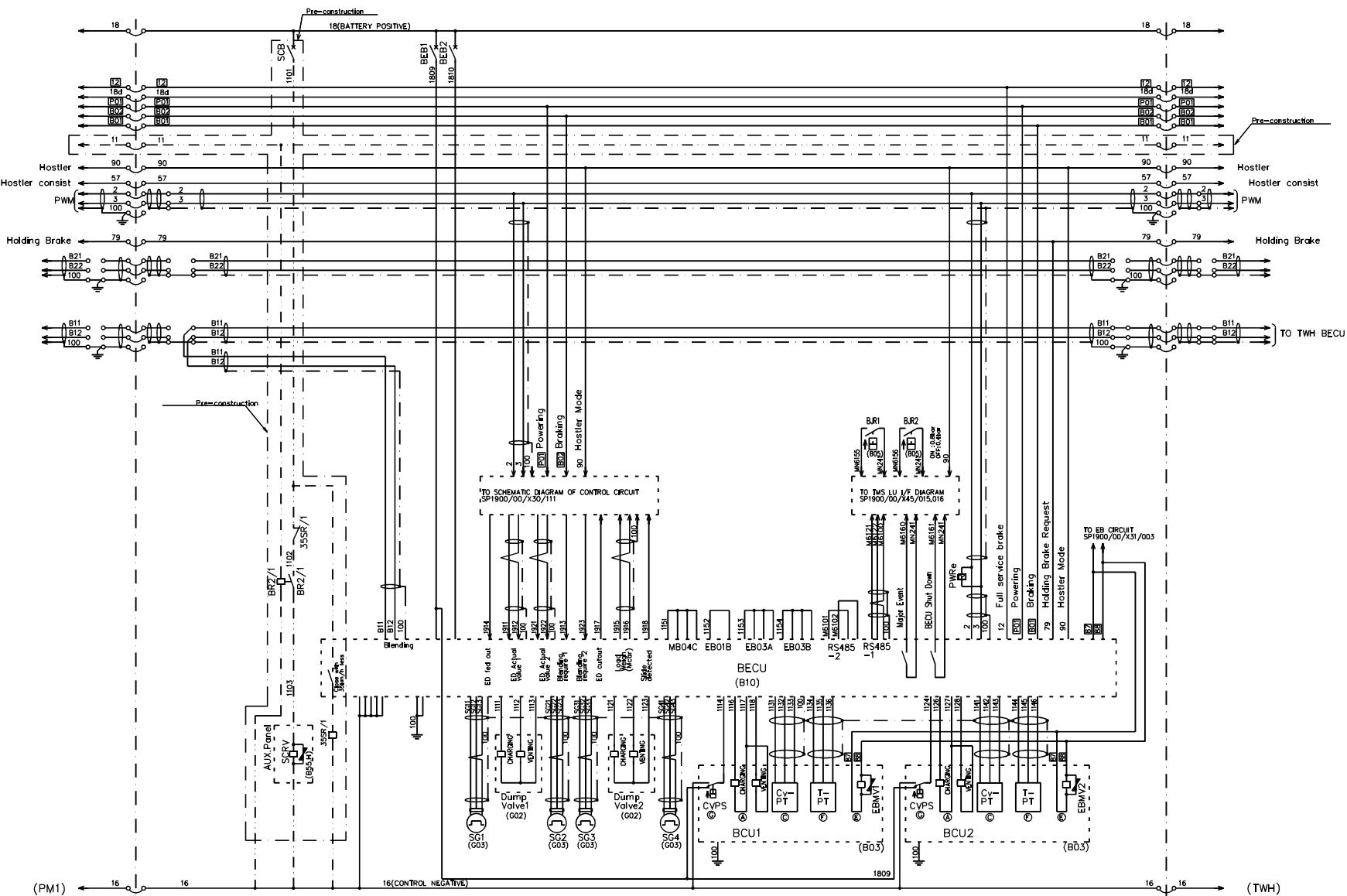


**35SR:** 35km/h Speed Relay  
**BCPS:** Brake Cylinder Pressure Switch  
**BCU:** Brake Control Unit  
**BEB:** BEcu Breaker  
**BECU:** Brake Electronic Control Unit

BR: Brake Relay  
SCB: SCRubber brake Breaker  
SCRV: SCRubber magnet Valve  
SG: Speed Generator

REM1:  SHOWS YELLOW CABLES  
REM2: REFER TO TA26078 /22 FOR REGUL L/E

South BCU1 BCU2 North



C REVISED AS PER EDOC ZML1039 - PROVIDE BRAKE JAM INDICATOR ON SP1900 & SP1950 TRANS LU HM 25.01.16 F NG4  
 B REDRAWN TO STANDARDISED TITLE BLOCK R LAW 15AU02 L WONG  
 A FIRST ISSUE SPD 26AN07 C.C.

DRAWN R LAW  
 DESIGNED ---  
 CHECKED R LEUNG  
 APPROVED L WONG  
 DATE 15AU02  
 SCB: SCRubber brake Breaker  
 SCR: SCRubber magnet Valve  
 SG: Speed Generator  
 REMI: SHOWS YELLOW CABLES  
 REM2: REFER TO TA26078/22 FOR BECU 1/F

**MTR**

OPERATION DIVISION

TECHNICAL & ENGINEERING  
SERVICES DEPARTMENT

CONTRACTOR REFERENCE NO.

IP718466-5700

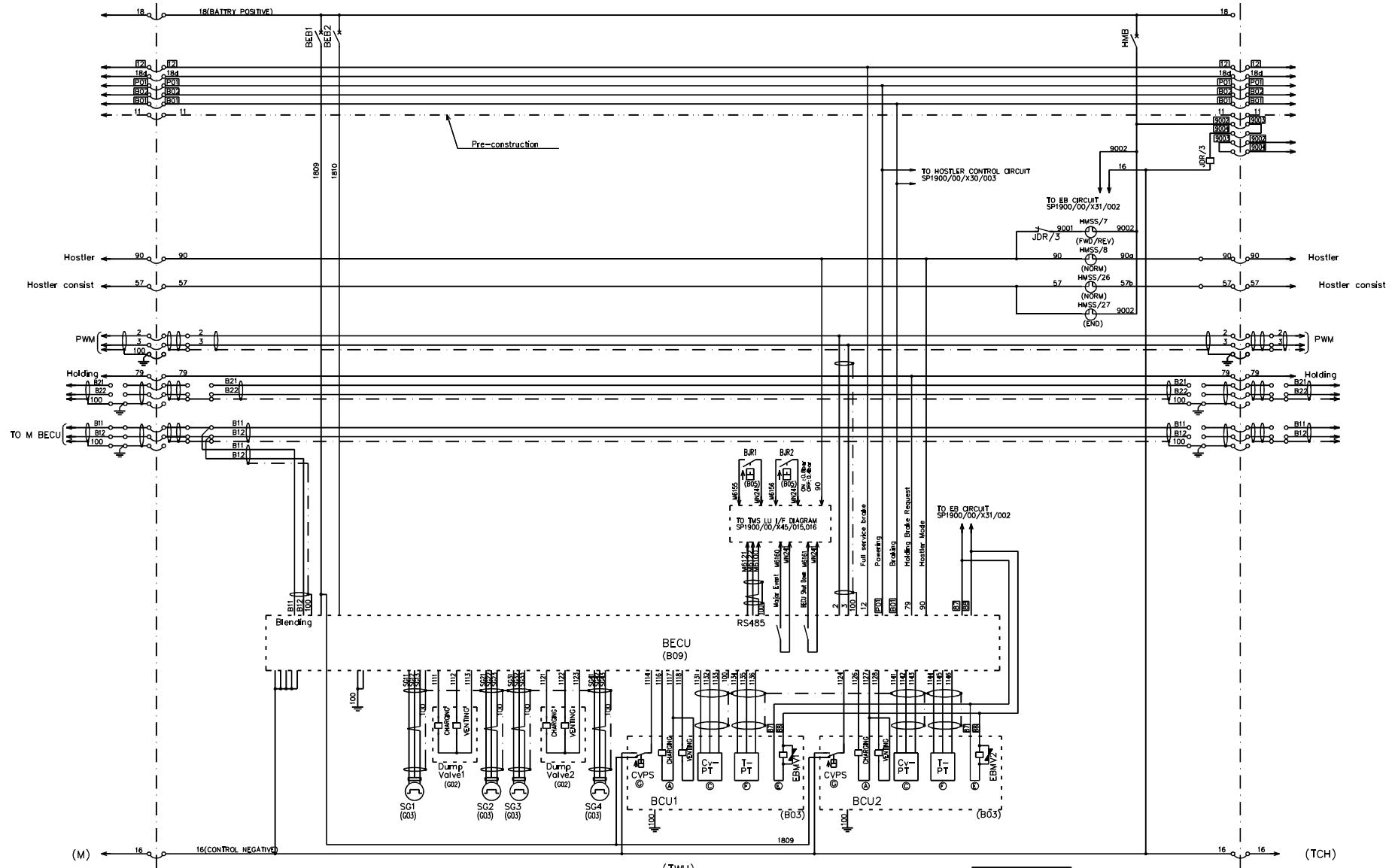
KORC REFERENCE NO.

SP1900AB/f/f/RR/V006

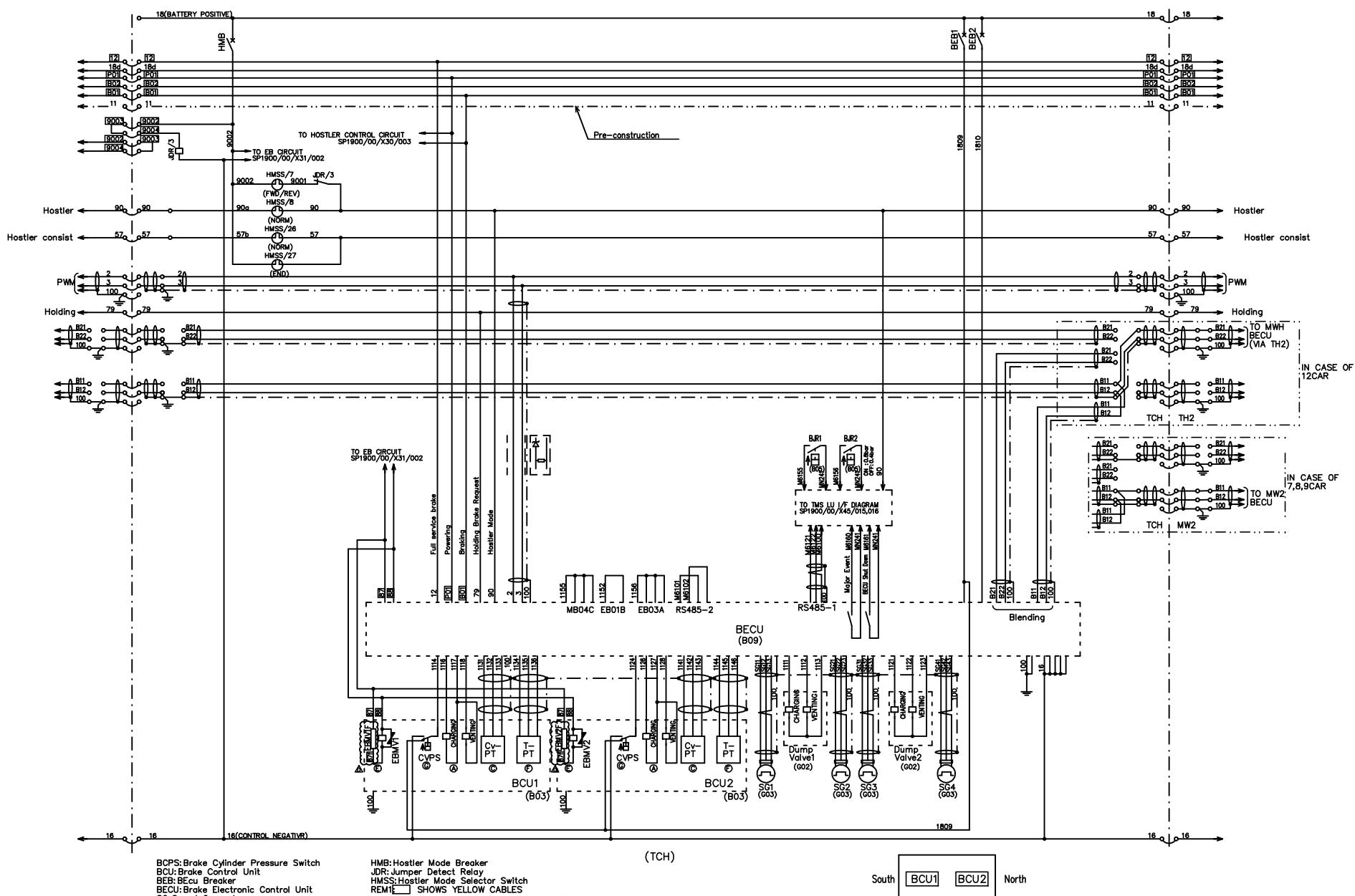
CADD REF. 004\_372\_100345\_0007\_C.dwg

**SP1900 ELECTRIC MULTIPLE UNITS  
ELECTRICAL SCHEMATIC  
BRAKE CIRCUIT (3/15)**

SCALE NTS DRAWING NO. OD4/372/100345/0007 REV. C



REV	DESCRIPTION	BY	DATE	APPROVED	REV	DESCRIPTION	BY	DATE	APPROVED	MTR	OPERATION DIVISION	TECHNICAL & ENGINEERING SERVICES DEPARTMENT	TITLE									
										DRAWN	R LAW	DESIGNED	---									
C	REVISED AS PER EDIC ZWL1039 - PROVIDE BRAKE JAM INDICATOR ON SP1900 & SP1950 TRANS LU MM 25.01.16 F NO4									CHERED	R LEUNG	APPROVED	L WONG	OPERATION DIVISION	TECHNICAL & ENGINEERING SERVICES DEPARTMENT	SP1900 ELECTRIC MULTIPLE UNITS ELECTRICAL SCHEMATIC BRAKE CIRCUIT (4/15)						
B	REDRAWN TO STANDARDISED TITLE BLOCK					R LAW 15AU02 L WONG				DON'T FORGE DRAWINGS. ALL DIMENSIONS SHALL BE IN MILLIMETRES. UNLESS OTHERWISE SPECIFIED. NOTES: 1. THIS DRAWING IS THE PROPERTY OF THE CONTRACTOR. 2. THIS DRAWING IS NOT TO BE COPIED OR DISSEMINATED EXCEPT BY CONTRACTOR'S EXPRESS WRITTEN CONSENT. 3. THIS DRAWING IS THE PROPERTY OF THE CONTRACTOR. 4. THIS DRAWING IS THE PROPERTY OF THE CONTRACTOR. 5. THIS DRAWING IS THE PROPERTY OF THE CONTRACTOR.									CONTRACTOR REFERENCE NO. IP718467-5700	KORC REFERENCE NO. SP1900AB/f/f/RR/M007	SCALE NTS DRAWING NO. OD4/372/100345/0008	REV. C
A	FIRST ISSUE	SPD	26JAN07	C.C.		REMI SHOWS YELLOW CABLES				CADD REF. 004_372_100345_0008_C.dwg												



BCPS: Brake Cylinder Pressure Switch  
BCU: Brake Control Unit  
BEB: BEcu Breaker  
BECU: Brake Electronic Control Unit  
SG: Speed Generator

HMB: Hostler Mode Breaker  
JDR: Jumper Detect Relay  
HMSS: Hostler Mode Selector Switch  
REM1  SHOWS YELLOW CABLES  
REM2: REFER TO TA26078/24 FOR BECU 1/P

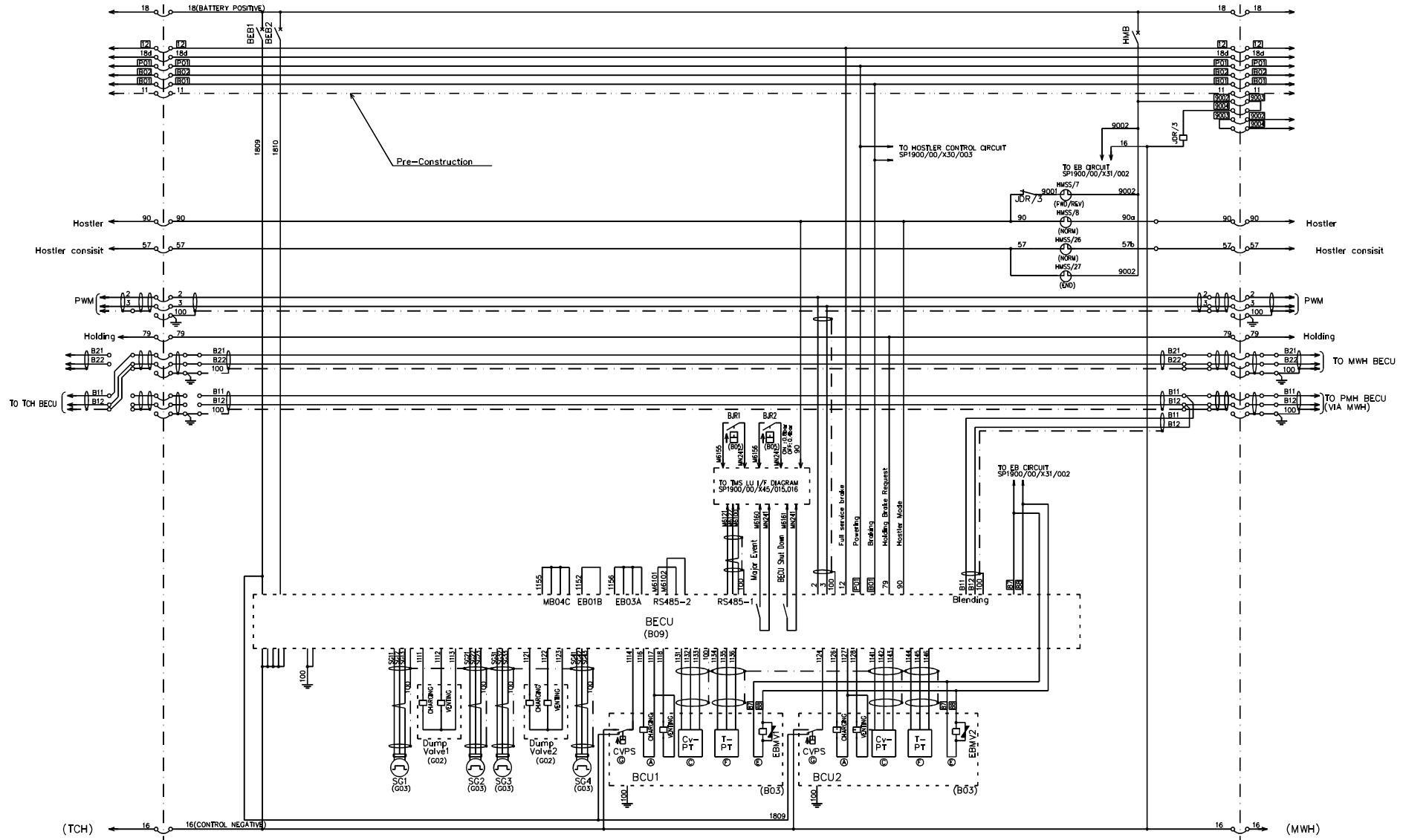
(TCH)



**ORIGINATOR**

TECHNICAL & ENGINEERING  
SERVICES DEPARTMENT

**SP1900 ELECTRIC MULTIPLE UNITS**  
**ELECTRICAL SCHEMATIC**  
**BRAKE CIRCUIT (5/15)**

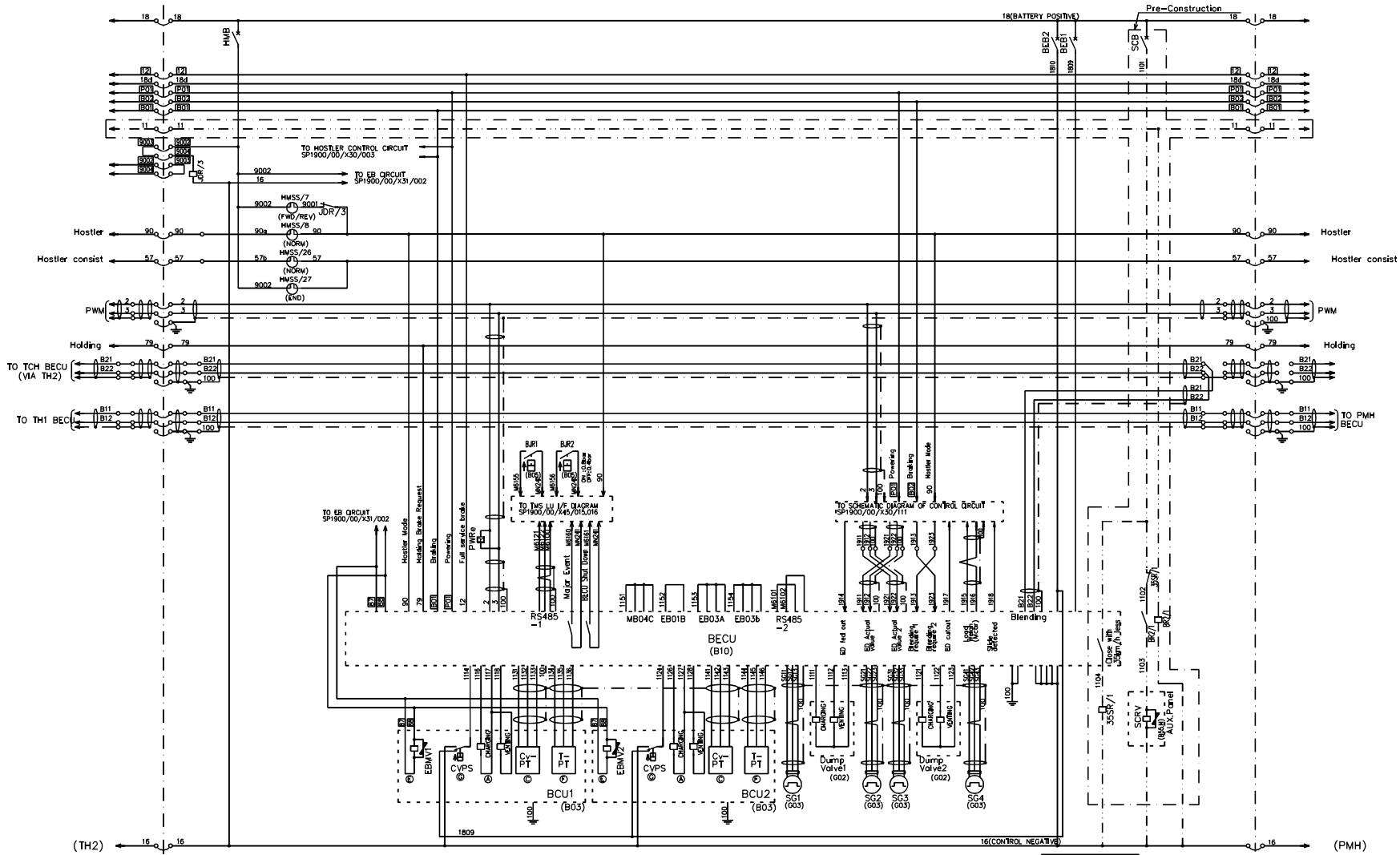


BCPS: Brake Cylinder Pressure Switch  
 BECU: Brake Electronic Control Unit  
 BEB: BECU Breaker  
 BECU: Brake Electronic Control Unit  
 SG: Speed Generator  
 HMB: Hostler Mode Breaker

JDR: Jumper Detect Relay  
 HMSS: Hostler Mode Selector Switch  
 REM1: SHOWS YELLOW CABLES  
 REM2: REFER TO TA26078/24 FOR BECU I/F

South **BCU1** **BCU2** North

REV	DESCRIPTION	BY	DATE	APPROVED	REV	DESCRIPTION	BY	DATE	APPROVED	MTR		TITLE
										DRAWN	R LAW	
C	REVISED AS PER EDOC ZM10599 - PROVIDE BRAKE JAM INDICATOR ON SP1900 & SP1950 TRANS LU HM	25/01/16	F NG4	---	---	REMOVED	R LAW	15AU02	L WONG	DESIGNED	---	SP1900 ELECTRIC MULTIPLE UNITS
B	REDRAWN TO STANDARDISED TITLE BLOCK					REMOVED				CHERISHED	R LEUNG	ELECTRICAL SCHEMATIC
A	FIRST ISSUE					REMOVED	SPD	26AN07	C.C	APPROVED	L WONG	BRAKE CIRCUIT (6/15)
						REMOVED				DATE	15AU012	
						REMOVED				CONTRACTOR REFERENCE NO.	IP718469-5700	
						REMOVED				KORC REFERENCE NO.	SP1900AB/ff/RR/V009	
						REMOVED				CADD REF.	004_372_100345_0010_C.dwg	
						REMOVED				SCALE	NTS	DRAWING NO.
						REMOVED					004/372/100345/0010	REV. C



35SR: 35km/h Speed Relay  
BCPS: Brake Cylinder Pressure Switch  
BCU: Brake Control Unit  
BEB: BEcu Breaker

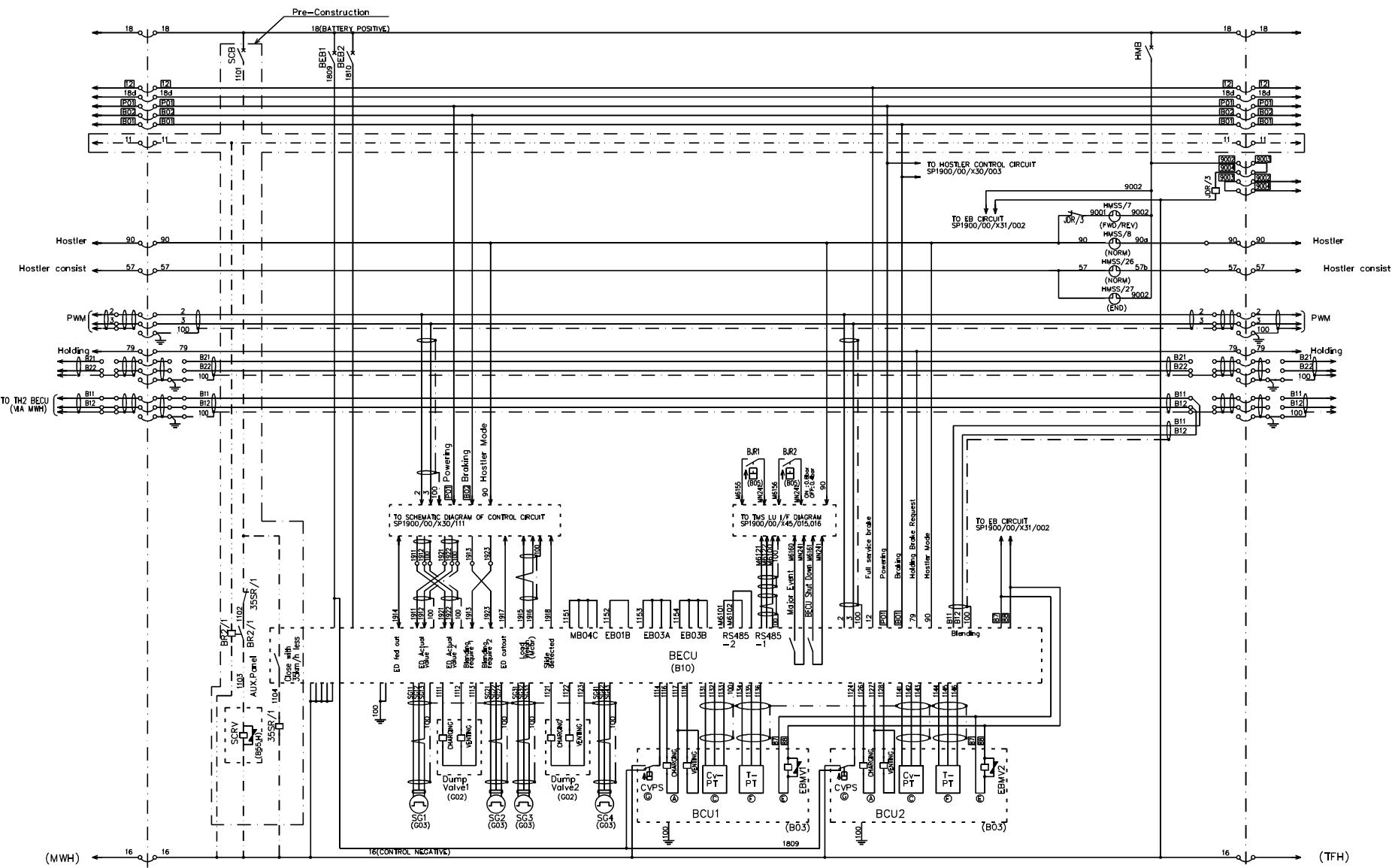
BECU: Brake Electronic Control Unit  
EMHR: Emergency brake Hold aux. Rela  
HMB: Hostler Mode Breaker  
HMSS: Hostler Mode Selector Switch

JDR: Jumper Detect Relay  
SCB: SCrubber brake Breaker  
SCRV: SCRubber magnet Valve  
SG: Speed Generator

REM1:  SHOWS YELLOW CABLES  
REM2: REFER TO TA26078/22 FOR BECU I/P

South BCU1 BCU2 Nor

								DRAWN DESIGNED ---	R LAW R LEUNG APPROVED L WONG 15AUG12	<b>MTR</b> ORIGINATOR <b>OPERATION DIVISION</b>	TECHNICAL & ENGINEERING SERVICES DEPARTMENT	SP1900 ELECTRIC MULTIPLE UNITS ELECTRICAL SCHEMATIC BRAKE CIRCUIT (7/15)	
C	REVISED AS PER EDOC ZWL10939 - PROVIDE BRAKE JAM INDICATOR ON SP1900 & SP1950 TRANS	LU MM	25/01/16	F NGM				DO NOT SCALE DRAWINGS. ALL DIMENSIONS SHALL BE IN MILLIMETRES. THIS DRAWING IS THE PROPERTY OF THE CONTRACTOR. IT IS TO BE RETURNED TO THE CONTRACTOR IN THE CONTRACTOR'S OWN TIME. THIS DRAWING IS THE PROPERTY OF THE CONTRACTOR AND IS TO BE KEPT AS A CONFIDENTIAL DOCUMENT. NO PARTS OF THIS DRAWING ARE TO BE COPIED OR REPRODUCED, EXCEPT WITH THE WRITTEN CONSENT OF THE CONTRACTOR.	CONTRACTOR REFERENCE NO. IP718470-5/200	WORKS REFERENCE NO. SP1900AB/X6/RR/W5010	SCALE NTS	DRAWING NO. OD4/372/100345/0011	REV. C
B	REDRAWN TO STANDARDISED TITLE BLOCK	R LAW	15AUG12	L WONG									
A	FIRST ISSUE	SPD	26JAN07	C.C.									
REV	DESCRIPTION	BY	DATE APPROVED	REV	DESCRIPTION	BY	DATE APPROVED		CADD REF. 004_372_100345_0011_C.dwg				



35SR: 35km/h Speed Relay  
BCPS: Brake Cylinder Pressure Switch  
BCU: Brake Control Unit  
BEB: BEcu Breaker  
BECU: Brake Electronic Control Unit  
BR: Brake Relay

HMB: Hostler Mode Breaker  
HMSS: Hostler Mode Selector Switch  
JDR: Jumper Detect Relay  
SCB: SCRubber brake Breaker  
SCRV: SCRubber magnet Valve  
SG: Speed Generator

REM1:  SHOWS YELLOW CABLES  
REM2: REFER TO TA26078/22 FOR BECU I/F

(PMH) South BCU1 BCU2 North

	DRAWN
	DESIGNED
	CHECKED
	APPROVED
REMARKS	DATE



## **OPERATION DIVISION**

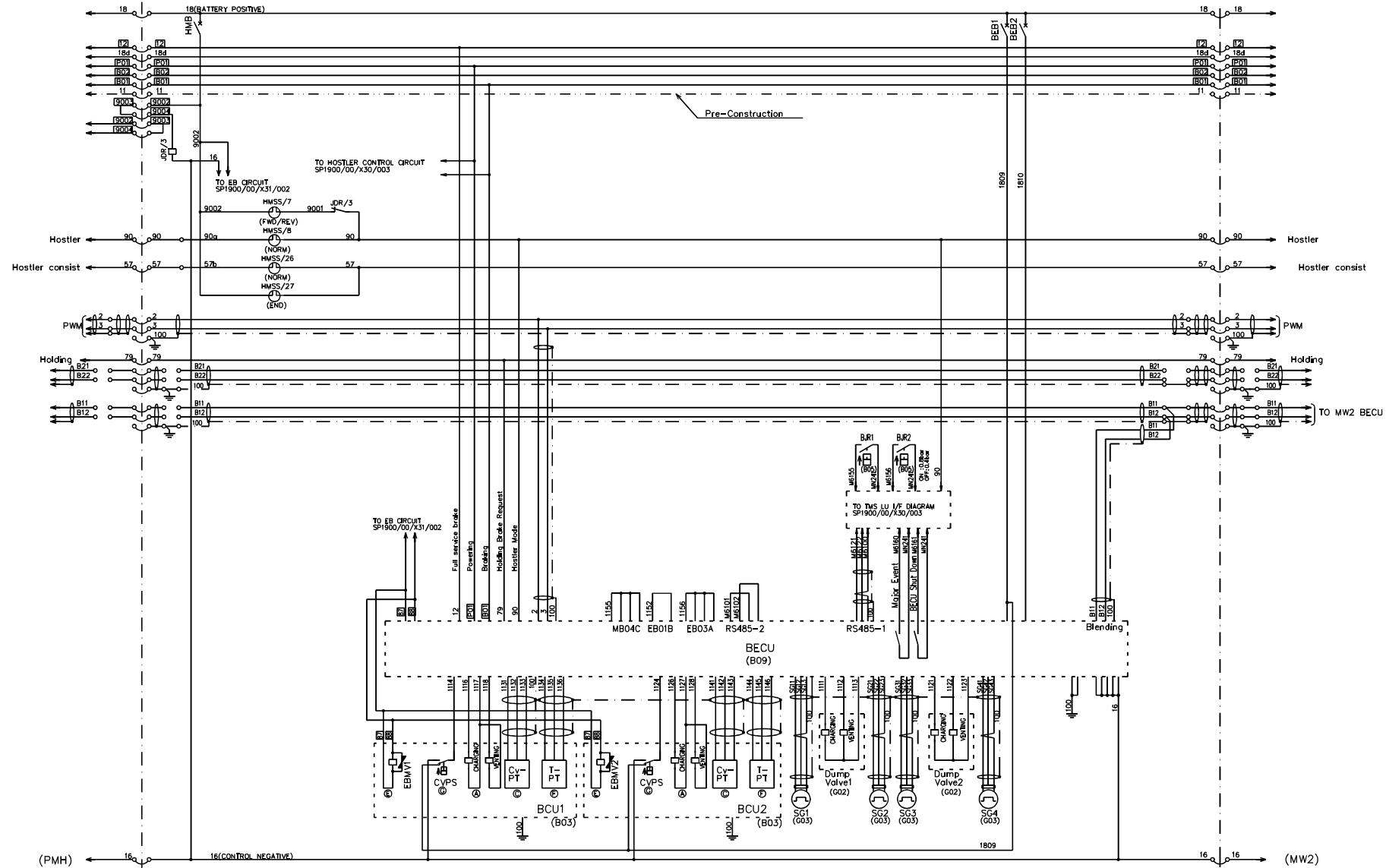
TECHNICAL & ENGINEERING  
SERVICES DEPARTMENT

15AUG12

SERVICES DEPARTMENT

LE SP1900 ELECTRIC MULTIPLE UNITS  
ELECTRICAL SCHEMATIC  
BRAKE CIRCUIT (8/15)

EV.



BCPS: Brake Cylinder Pressure Switch  
BCEU: Brake Electronic Control Unit  
BBE: Brake Control Unit  
BEU: Brake Electronic Unit  
BEU: Brake Electronic Control Unit  
REMI: REMOTE INDICATOR  
REM2: REFER TO TA26078/24 FOR BECU I/F  
SG: Speed Generator

HMB: Hostler Mode Breaker  
JDR: Jam Detector Relay  
HMSS: Hostler Mode Selector Switch  
REMI: REMOTE INDICATOR  
REMI: SHOWS YELLOW CABLES  
REMI: REFER TO TA26078/24 FOR BECU I/F

(TFH)

South BCU1 BCU2 North

DRAWN R LAW  
DESIGNED ---  
CHERED R LEUNG  
APPROVED L WONG  
DATE 15AUG12

**MTR**  
OPERATION DIVISION

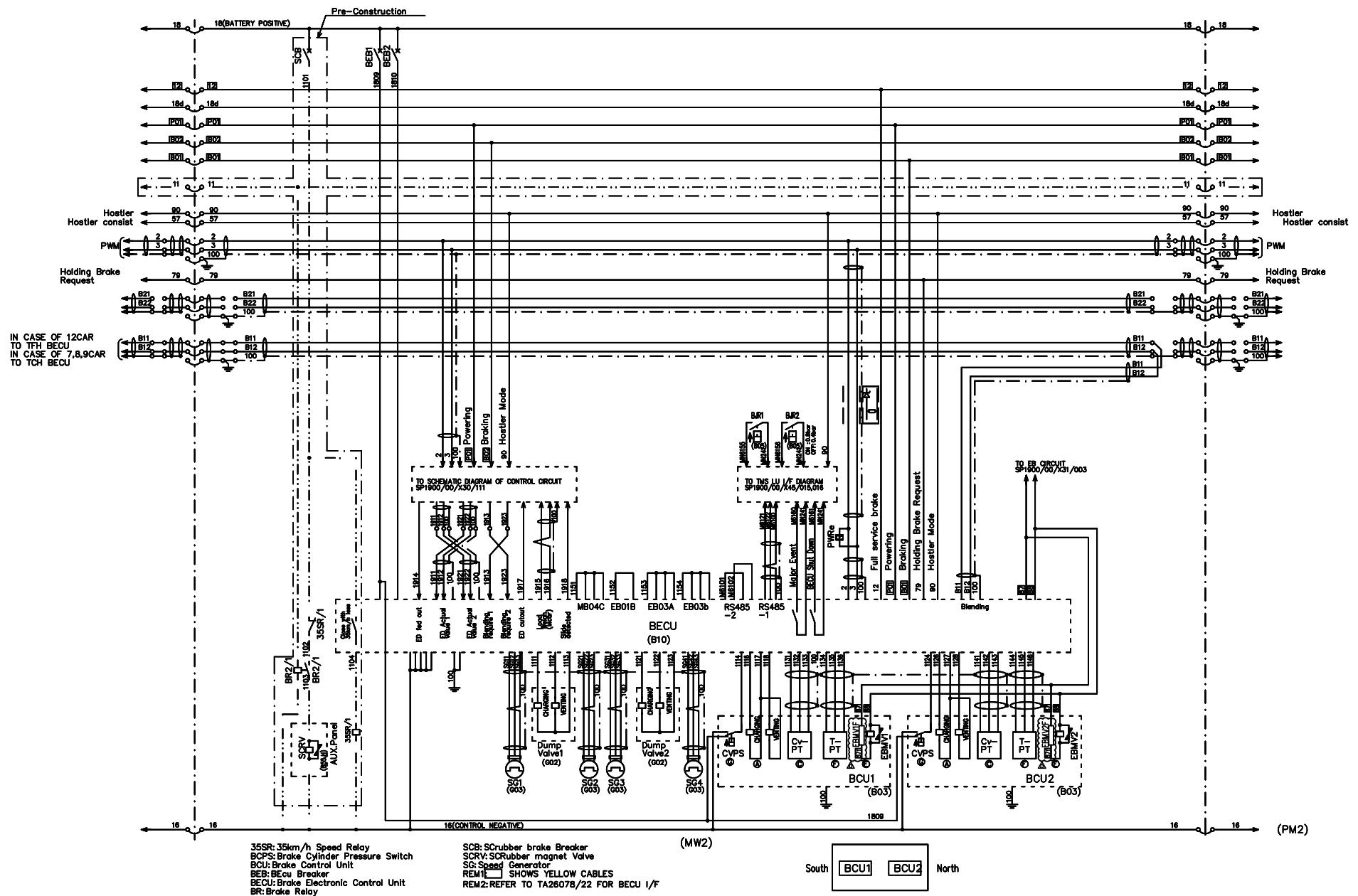
TECHNICAL & ENGINEERING  
SERVICES DEPARTMENT

SP1900 ELECTRIC MULTIPLE UNITS  
ELECTRICAL SCHEMATIC  
BRAKE CIRCUIT (9/15)

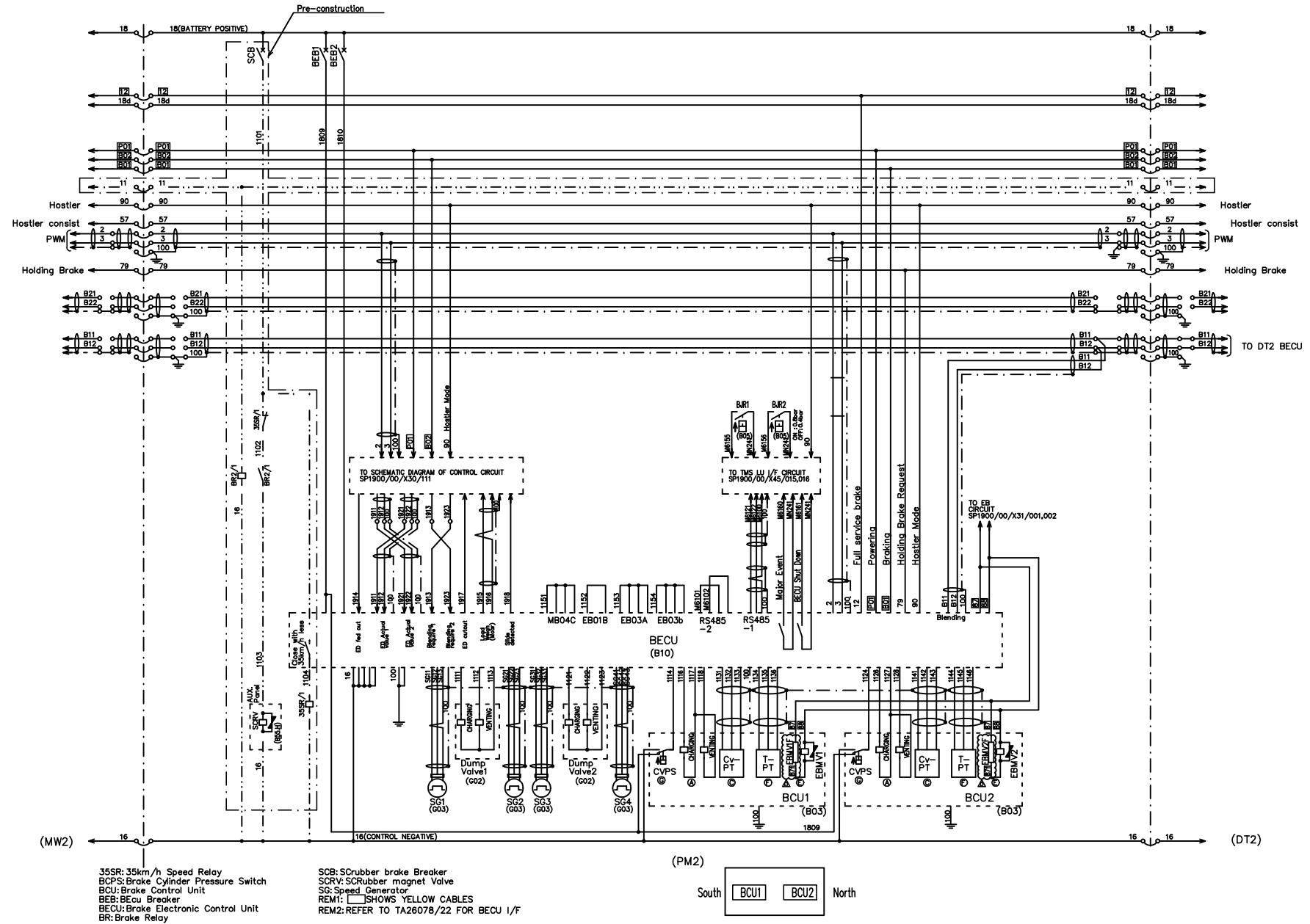
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SCALE NTS DRAWING NO. OD4/372/100345/0013 REV. C

REV	DESCRIPTION	BY	DATE	APPROVED	REV	DESCRIPTION	BY	DATE	APPROVED
C	REVISED AS PER EDOC ZM1059 - PROVIDE BRAKE JAM INDICATOR ON SP1900 & SP1950 TRANS LIU HM 26.01.16 F NG4	R LAW	15AUG12	L WONG		DO NOT SCALE DRAWINGS. ALL DIMENSIONS SHALL BE SHOWN ON THE DRAWING. UNLESS OTHERWISE STATED, DIMENSIONS ARE IN MILLIMETRES. COORDINATES ARE IN MILLIMETRES FROM THE TOP EDGE OF THE DRAWING. COORDINATES OF ANY PART ARE DETERMINED BY THE CENTER LINE OF THAT PART. COORDINATES OF ANY POINT ARE DETERMINED BY THE NEAREST MILLIMETRE MARKS ON THE APPROPRIATE COORDINATE LINES. COORDINATES ARE IN MILLIMETRES FROM THE TOP EDGE OF THE DRAWING. COORDINATES OF ANY PART ARE DETERMINED BY THE CENTER LINE OF THAT PART. COORDINATES OF ANY POINT ARE DETERMINED BY THE NEAREST MILLIMETRE MARKS ON THE APPROPRIATE COORDINATE LINES.	R LAW	15AUG12	L WONG
B	REDRAWN TO STANDARDISED TITLE BLOCK	R LAW	15AUG12	L WONG					
A	FIRST ISSUE	SPD	26JAN07	C.C.					
					CADD REF.	004_372_100345_0013_C.dwg			



REV	DESCRIPTION	BY	DATE	APPROVED	REV	DESCRIPTION	BY	DATE	APPROVED
D	ZML15260 FLEET IMPLEMENTATION OF FUSES TO THE EB CIRCUIT ON SP TRAINS	C CHAU	31.03.25	S WONG	R LAW	<b>MTR</b>	DRAWN	R LAW	DESIGNED
C	REVISED AS PER EDOC ZML10939 - PROVIDE BRAKE JAM INDICATOR ON SP1900 & SP1950 TRAINS	J HUANG	26.01.16	F NGW	CHECKED	ORIGINATOR	DESIGNED	---	---
B	REDRAWN TO STANDARDISED TITLE BLOCK	R LAW	15AUG12	L WONG	APPROVED	OPERATION DIVISION	REVIEWED	REVIEWED	REVIEWED
A	FIRST ISSUE	SRD	26JUN07	C.C.	DATE	TECHNICAL & ENGINEERING SERVICES DEPARTMENT	REvised	REvised	REvised
						CONTRACTOR REFERENCE NO.	1P719080-5700	KORC REFERENCE NO.	SP1900AB/IF/RR/M5013
						CADD REF.	004_372_100345_0014.dwg	SCALE	NTS
						DRAWING NO.	004/372/100345/0014	REV.	D



3SSR: 35km/h Speed Relay  
BOPPS: Brake Cylinder Pressure Switch  
BCU: Brake Control Unit  
BEB: BECU Breaker  
RECU: Brake Electronic Control Unit  
BR: Brake Relay

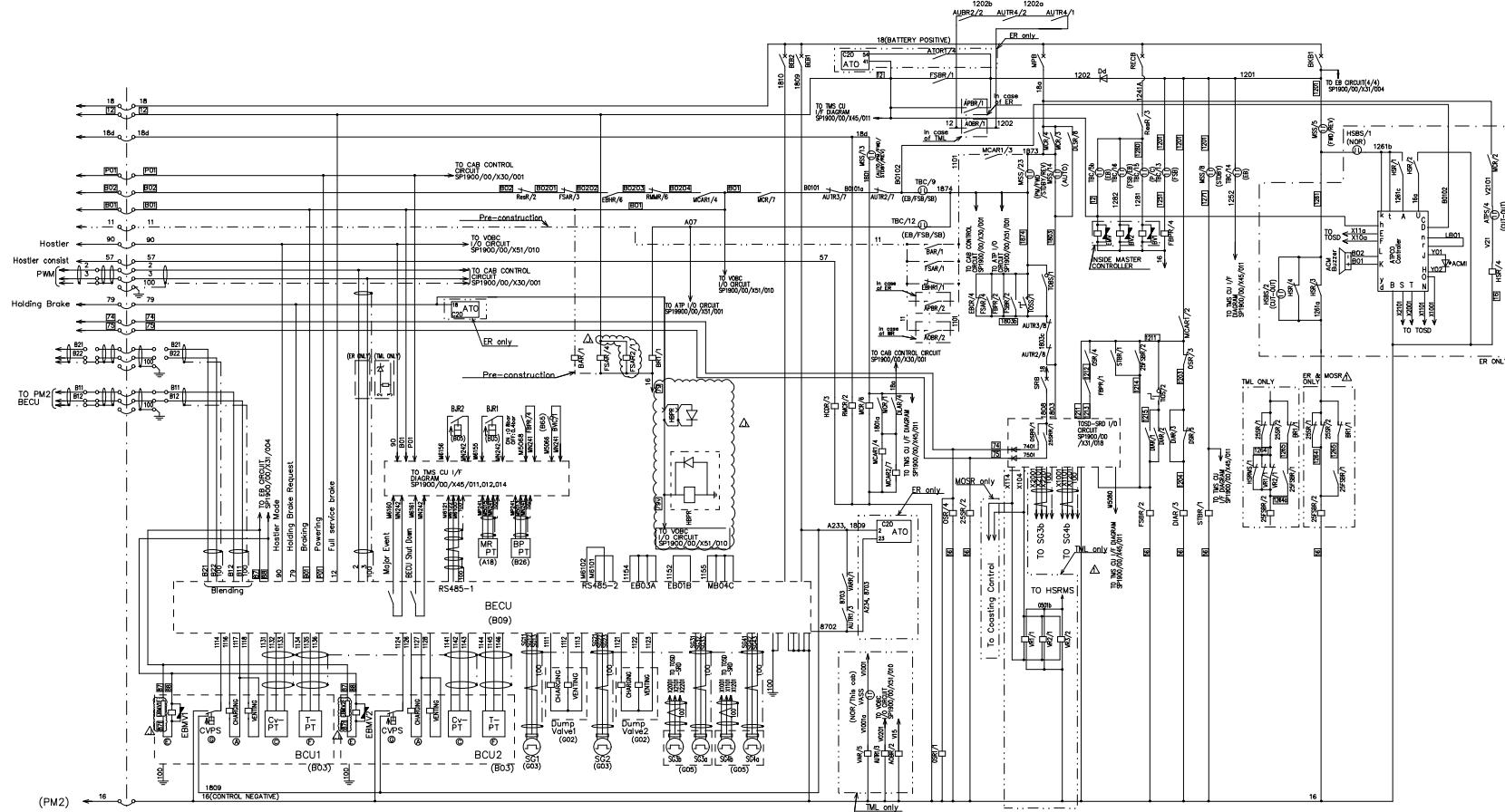
SCB: Scrubber brake Breaker  
SG: Scrubber brake Magnet Valve  
SG: Speed Generator  
REM1: SHOWS YELLOW CABLES  
REM2: REFER TO TA26078/22 FOR BECU I/F

REV	DESCRIPTION	BY	DATE	APPROVED	REV	DESCRIPTION	BY	DATE	APPROVED
D	ZML15280 FLEET IMPLEMENTATION OF FUSES TO THE EB CIRCUIT ON SP TRAINS	C CHAU	31.03.25	S WONG					
C	REVISED AS PER EDOC ZML10939 - PROVIDE BRAKE JAM INDICATOR ON SP1900 & SP1950 TRANSJU		26.01.16	F NGW					
B	REDRAWN TO STANDARDISED TITLE BLOCK	R LAW	15AU12	L NGNG					
A	FIRST ISSUE	SRD	26AU07	C.C.					

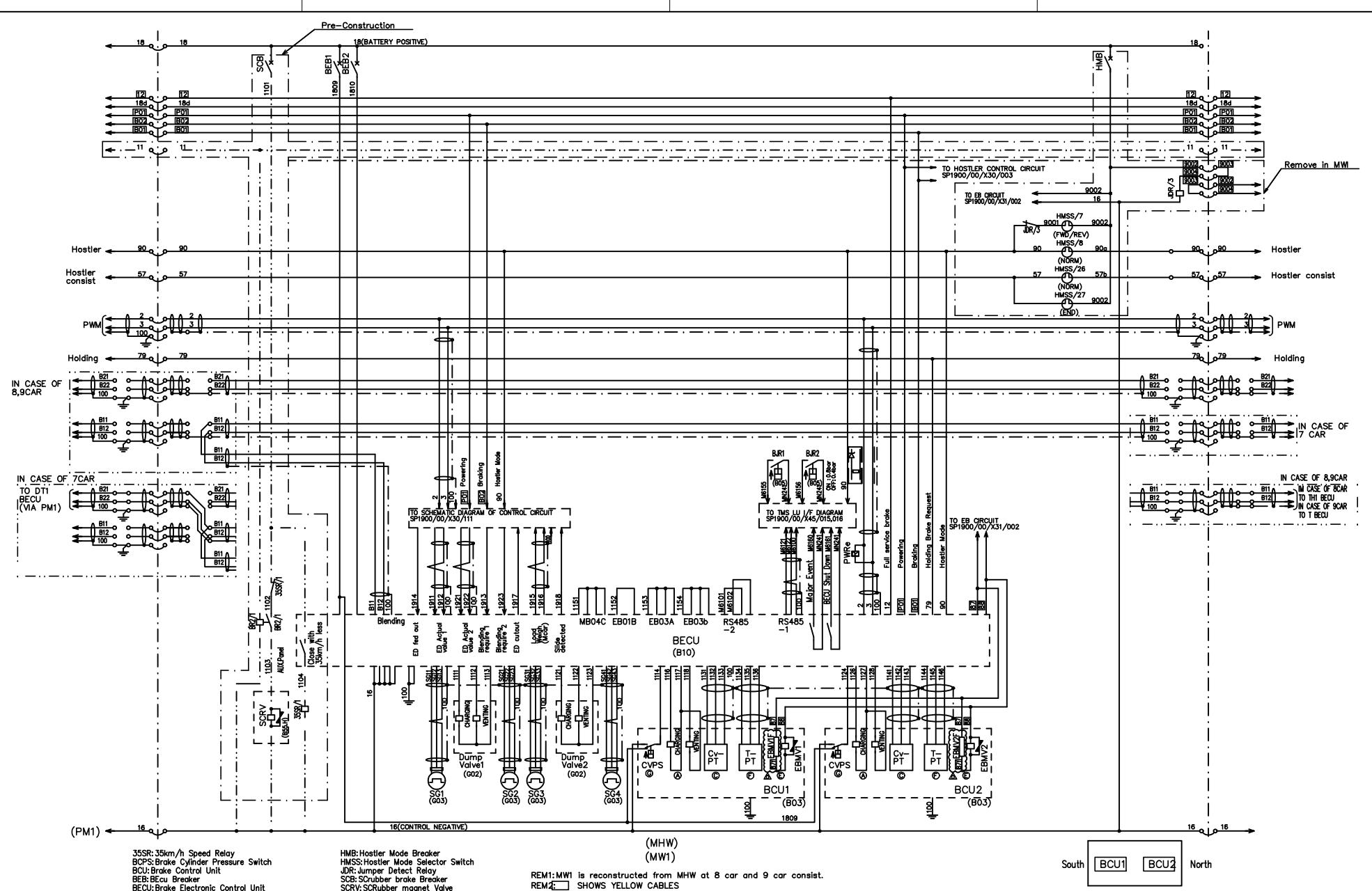
**TITLE**  
**SP1900 ELECTRIC MULTIPLE UNITS**  
**ELECTRICAL SCHEMATIC**  
**BRAKE CIRCUIT (11/15)**

**CONTRACTOR REFERENCE NO.** 1P719702-5700      **KORC REFERENCE NO.** SP1900AB/IF/RR/M5014

**CADD REF.** 004\_372\_100345\_0015.dwg      **SCALE** NTS      **DRAWING NO.** 004/372/100345/0015      **REV.** D



				G ZML1059 MODIFICATION ON VBR INTERFACE CIRCUIT OF SP1900 & SP1950 TRANS	LJU HM N00231 F NAG DRAWN R LAW		MTR	OPERATION DIVISION	TECHNICAL & ENGINEERING SERVICES DEPARTMENT	TITLE			
J	ZML15280 FLEET IMPLEMENTATION OF FUSES TO THE EB CIRCUIT ON SP TRANS, ZML15281 FLEET INSTALLATION OF FUSE TO THE AUXILIARY SET TRIP CIRCUIT AND IMPLEMENTATION OF PARALLEL CONTACT TO THE CAN, VAL13356 REPEATER RELAY CIRCUIT	C CHAU 27.01.25 S WING	F ZML1060 WRL SP1950 & MCL SP1950 AUTR2 RELAY REDUNDANCY CIRCUIT	LJU HM N00231 F NAG DESIGNED —			ORIGINATOR			SP1900 ELECTRIC MULTIPLE UNITS			
I	REVISED AS PER EDC ZM1038 - PROVE BRAKE JAW INDICATOR ON SP1900 & SP1950 TRANS	UU HM 25.01.16 F NGAI	E ZML8957 POWER FEED LOCATION ON DRIVER VOLTAGE SYSTEM (DVS) AND RESERVE APPLICATION VALUES	LJU HM 131113 F NAG CHECKED R LEWIS						ELECTRICAL SCHEMATIC			
H	REVISED AS PER EDC ZM10172 - PROVISION OF WARNING MESSAGE DURING EMERGENCY STOP OPERATION IN SP1900 TRANS	UU HM 25.01.16 F NGAI	D ZML8957 PROVISION OF SPEED LIMIT IN ATP CUTOUT MODE ON EAL SP1900 TRANS	LJU HM 25.06.13 L NONG APPROVED R LEWIS						BRAKE CIRCUIT (12/15)			
REV	DESCRIPTION	BY DATE APPROVED REV	C HEDMANN TO STANDARDIZED TITLE BLOCK	R LAM 15A0527 DATE 15A052			CONTRACTOR REFERENCE NO.	IP719703-5700	KRC REFERENCE NO.	SP1900AB/XF/RR/N5015			
					DO NOT SCALE DRAWING. ALL DIMENSIONS SHALL BE BASED ON THIS DRAWING. THIS DRAWING IS THE PROPERTY OF THE DRAWER / CONTRACTOR OR ITS SUBCONTRACTOR. REPRODUCTION OF THIS DRAWING / DOCUMENT IS NOT PERMITTED WITHOUT THE WRITTEN CONSENT OF THE DRAWER / CONTRACTOR OR ITS SUBCONTRACTOR.		CADD REF.	04_372_100345_0016_J.DWG	SCALE	NTS	DRAWING NO.	OD4/372/100345/0016	REV. J



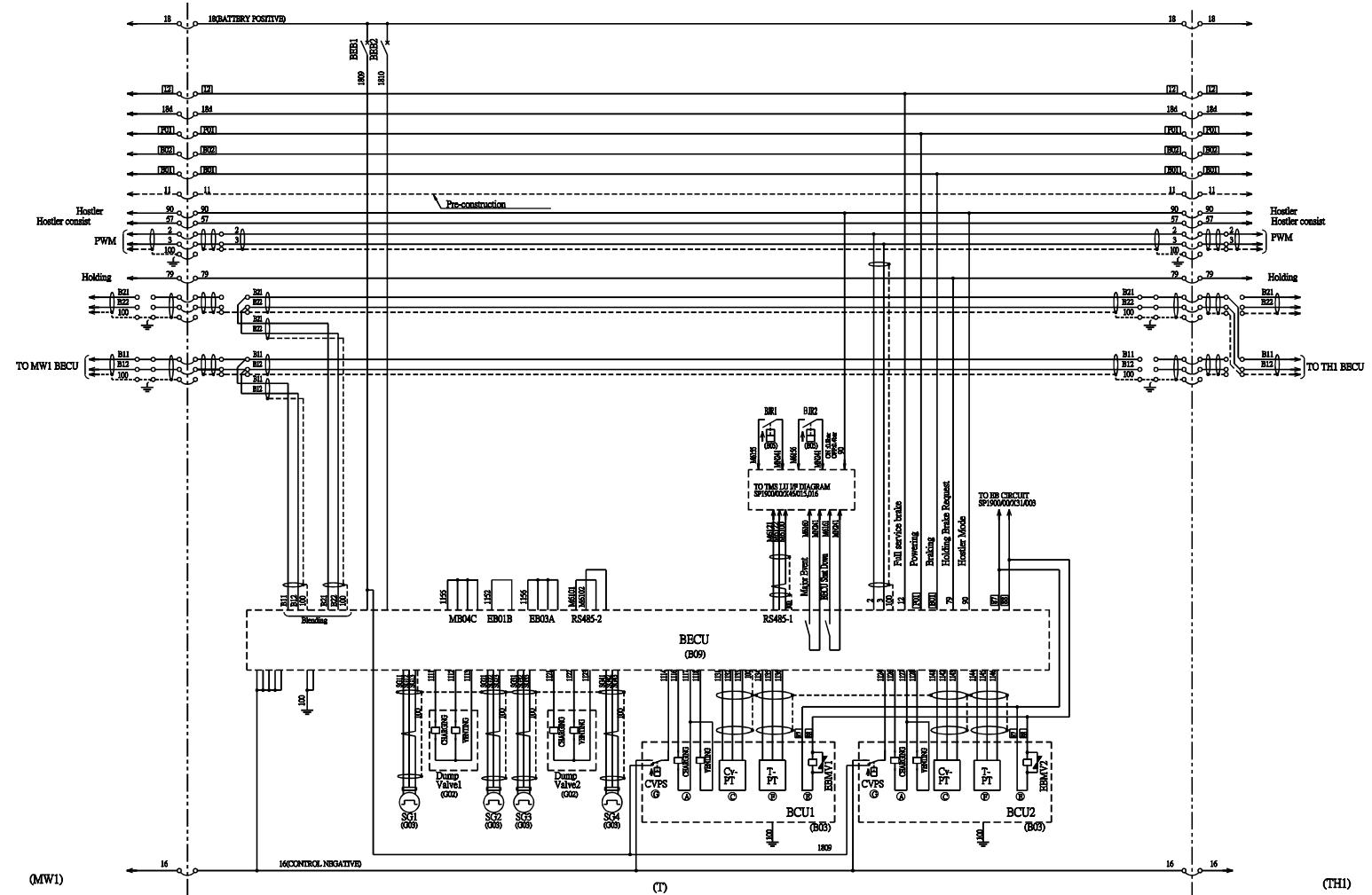
35SR: 35km/h Speed Relay  
BCPS: Brake Cylinder Pressure Switch  
BCU: Brake Control Unit  
BEB: BEcu Breaker  
BECU: Brake Electronic Control Unit  
BR: Brake Relay

HMB: Hostler Mode Breaker  
HMSS: Hostler Mode Selector Switch  
JDR: Jumper Detect Relay  
SCB: SCRubber brake Breaker  
SCRV: SCRubber magnet Valve  
SG: Speed Generator

REM1: MW1 is reconstructed from MHW at 8 car and 9 car consist.  
REM2:  SHOWS YELLOW CABLES  
REM3: REFER TO TA26078/22 FOR BECU I/F

South      BCU1      BCU2

BRI: Brake Ready			SG: Speed Generator			REMS: REFER TO TA2607/6/22 FOR BECU / F															
							DRAWN	R LAW	 MTR ORIGINATOR	OPERATION DIVISION	TECHNICAL & ENGINEERING SERVICES DEPARTMENT	TITLE: SP1900 ELECTRIC MULTIPLE UNITS ELECTRICAL SCHEMATIC BRAKE CIRCUIT (13/15)									
							DESIGNED	---													
							CHECKED	R LEUNG													
							APPROVED	L WONG													
							DATE	15AUG12													
							R LAW	15AUG12													
D ZML15280 FLEET IMPLEMENTATION OF FUSES TO THE EB CIRCUIT ON SP TRAINS			C CHAU 31.03.25 S WONG APPROVED L WONG DATE 15AUG12			CONTRACTOR REFERENCE NO. 1P719704-5700 KRC REFERENCE NO. SP1900AB/XF/RR/MS016															
C REVISED AS PER EDOC ZML10939 - PROVIDE BRAKE JAM INDICATOR ON SP1900 & SP1950 TRAINS			L WONG 26.01.25 F NICH			CADD REF. OD4_372_100345_0017_D.dwg															
B REDRAWN TO STANDARDISED TITLE BLOCK			R LAW 15AUG12 L WONG			SCALE NTS DRAWING NO. OD4/372/100345/0017 REV. D															
A FIRST ISSUE			SRD 26JUN07 C.C.																		
REV	DESCRIPTION		BY	DATE	APPROVED	REV	DESCRIPTION		BY	DATE	APPROVED										

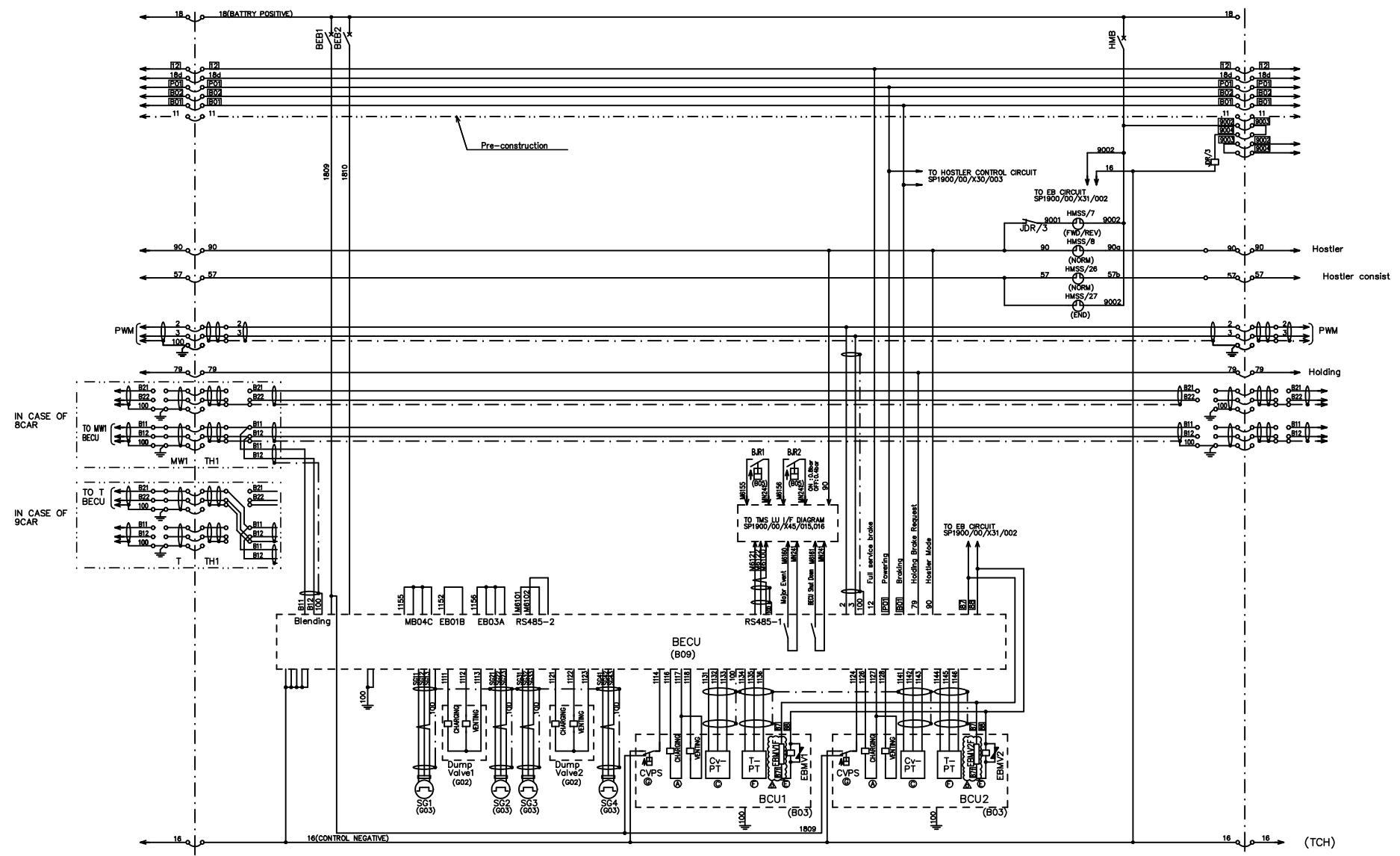


BCPS:Brake Cylinder Pressure Switch  
BCU:Brake Control Unit  
BEB:BEcu Breaker  
BBCU:Brake Electronic Control Unit  
SG:Speed Generator

REM1:  SHOWS YELLOW CABLES  
REM2: REFER TO TA26078/24 FOR BBCU I/F

South      BCU1      BCU2      North

								DRAWN DESIGNED ---	R LAW R LEUNG APPROVED L WONG 15AUG12	<b>MTR</b> ORIGINATOR <b>OPERATION DIVISION</b>	TECHNICAL & ENGINEERING SERVICES DEPARTMENT	SP1900 ELECTRIC MULTIPLE UNITS ELECTRICAL SCHEMATIC BRAKE CIRCUIT (14/15)	
C REVISED AS PER EDOC ZML10939 - PROVIDE BRAKE JAM INDICATOR ON SP1900 & SP1950 TRAINS									LU HM 26.01.16 F NGA	90 MM SCALE DRAWINGS. ALL DIMENSIONS SHALL BE IN MILLIMETRES. UNLESS OTHERWISE STATED, DIMENSIONS ARE IN MILLIMETRES. UNLESS OTHERWISE STATED, ANGLES ARE IN DEGREES. UNLESS OTHERWISE STATED, MATERIALS SHALL BE AS PER THE CORRESPONDING ISSUE OF THE NOTES TO DRAWINGS. UNLESS OTHERWISE STATED, ALL PARTS SHALL BE MANUFACTURED IN ACCORDANCE WITH THE NOTES TO DRAWINGS. UNLESS OTHERWISE STATED, ALL PARTS SHALL BE MANUFACTURED IN ACCORDANCE WITH THE NOTES TO DRAWINGS. UNLESS OTHERWISE STATED, ALL PARTS SHALL BE MANUFACTURED IN ACCORDANCE WITH THE NOTES TO DRAWINGS.	CONTRACTOR REFERENCE NO. IP719453-5700	KRC REFERENCE NO. SP1900AB/XF/RH/M5017	
B REDRAWN TO STANDARDISED TITLE BLOCK									R LAW 15AUG12 L WONG				
A FIRST ISSUE									SPO 26AUG07 C.C.				
REV	DESCRIPTION	BY	DATE	APPROVED	REV	DESCRIPTION	BY	DATE	APPROVED	CADD REF	NTS	DRAWING NO.	REV.
										004_372_100345_0018_C.dwg	OD4/372/100345/0018		C

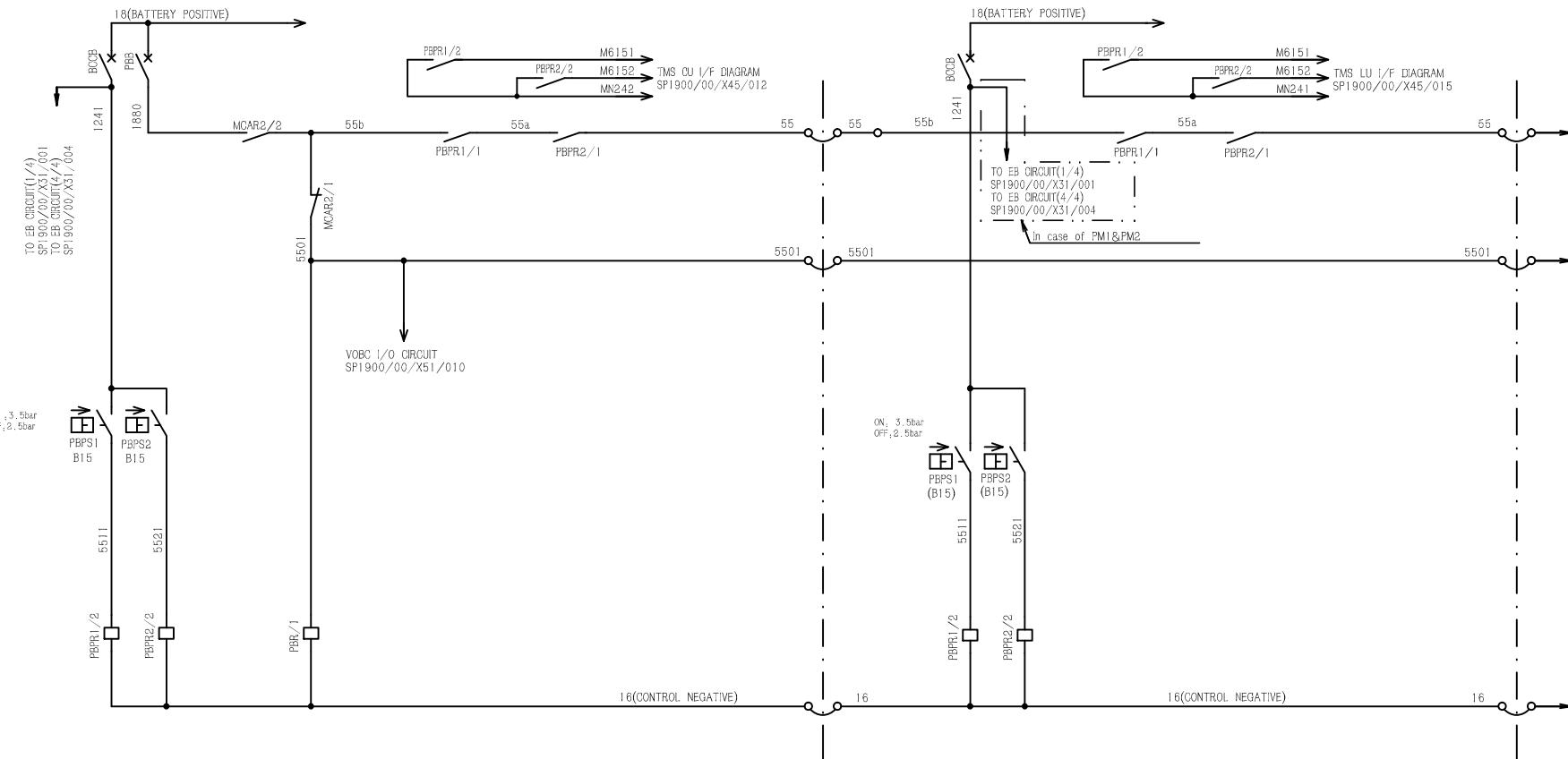


BCPS: Brake Cylinder Pressure Switch  
BCU: Brake Control Unit  
BEB: BEcu Breaker  
BECU: Brake Electronic Control Unit  
SG: Speed Generator  
HMB: Hostler Mode Breaker

JDR: Jumper Detect Relay  
HMSS: Hostler Mode Selector Switch  
REM1:  SHOWS YELLOW CABLES  
REM2: REFER TO TA26078/24 FOR BECU I/F

(TH1)

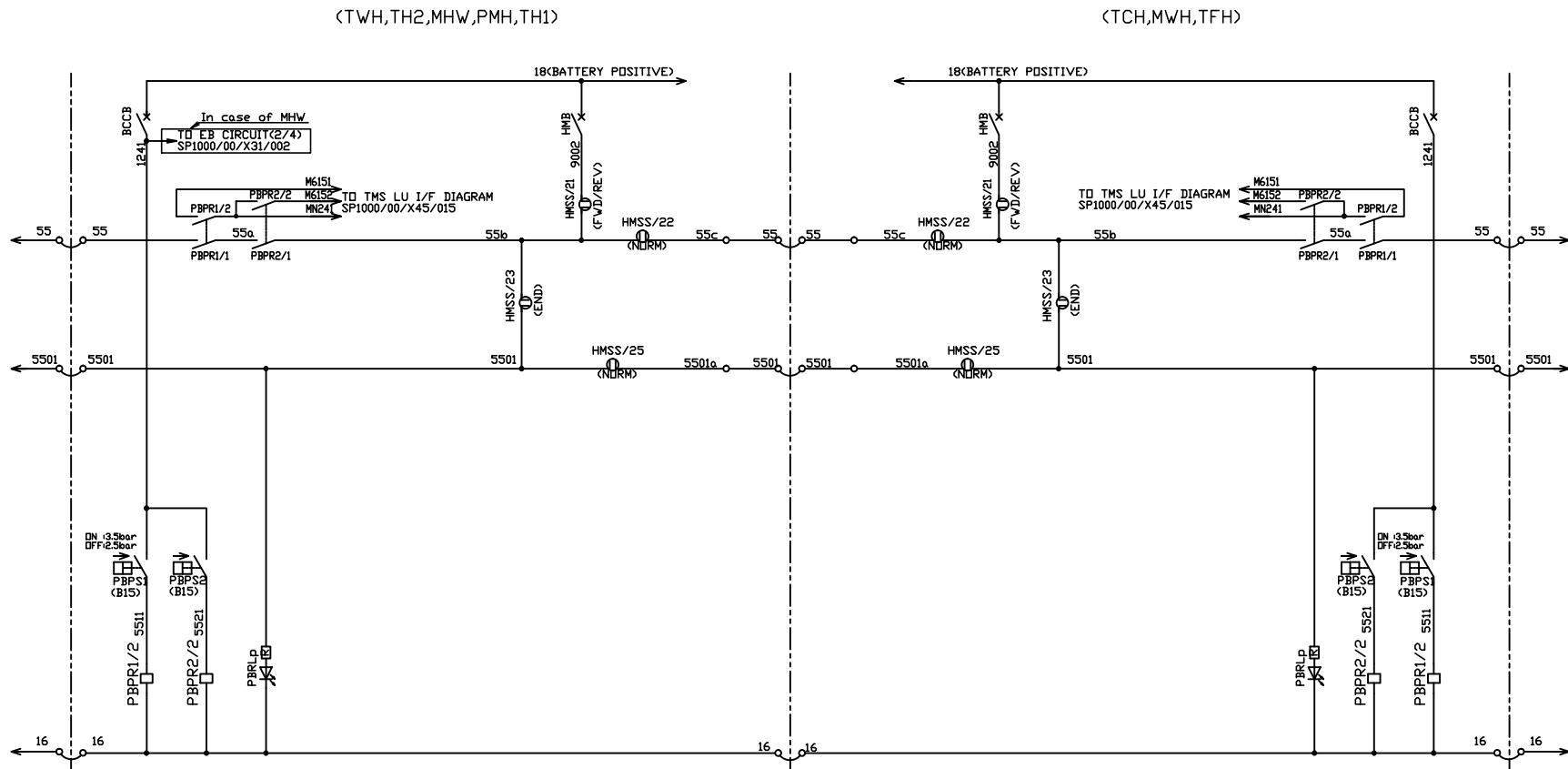
South      BCU1      BCU2      North



MCAR,Master Controller Auxiliary Relay  
PBPS,Parking Brake Pressure Switch  
PBPR,Parking Brake Pressure Relay  
PBR,Parking Brake Relay  
BCCB,Brake Control Circuit Breaker  
PBB,Parking Brake Breaker

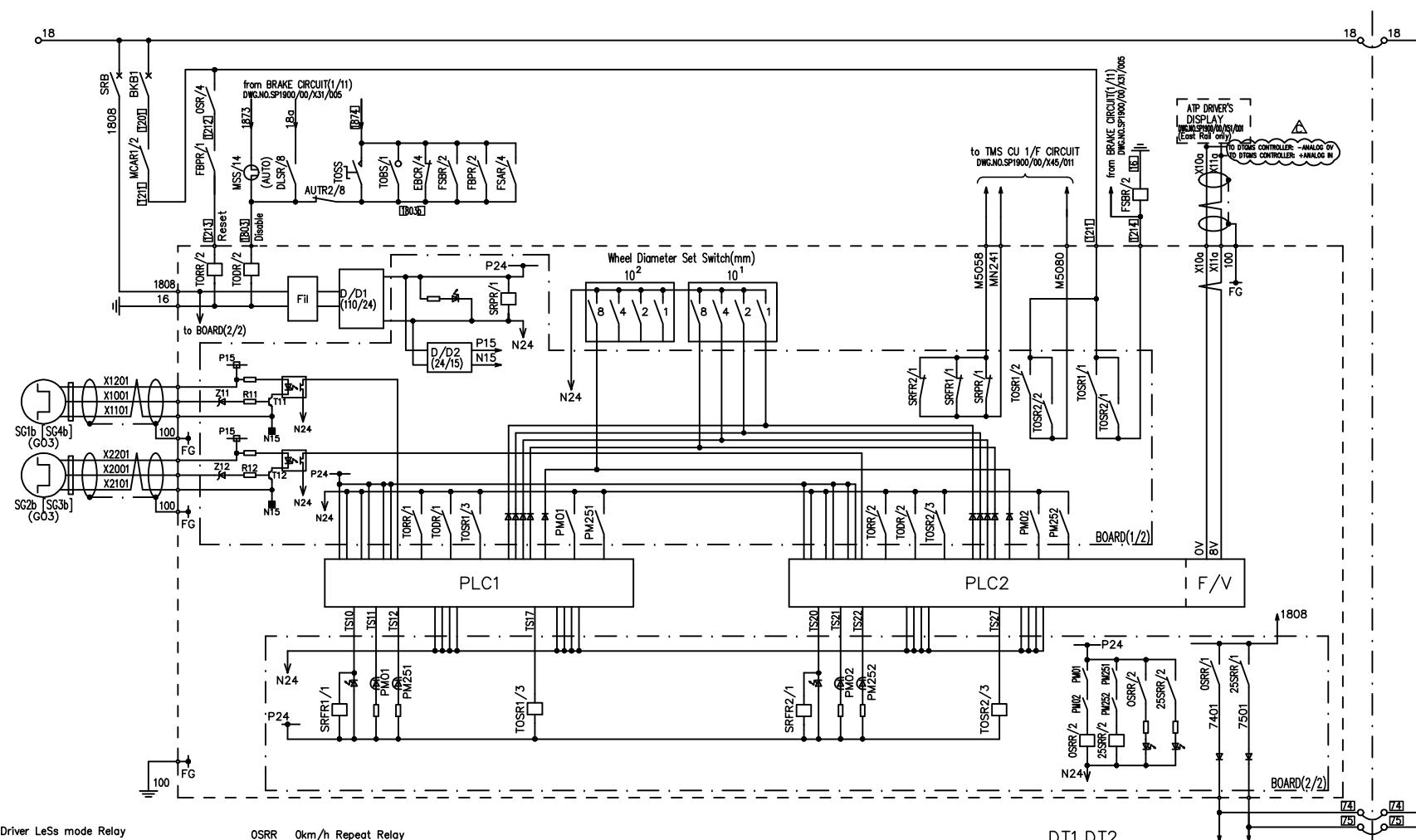
				B	REDRAWN TO STANDARDISED TITLE BLOCK	R LAW	03JAN13 L WONG
				A	FIRST ISSUE	SRD	26JAN07 C.C.

DRAWN	R LAW	 MTR	ORIGINATOR	TITLE
DESIGNED	----			
CHECKED	R LEUNG	OPERATION DIVISION		ELECTRICAL SCHEMATIC
APPROVED	L WONG	TECHNICAL & ENGINEERING SERVICES DEPARTMENT		PARKING BRAKE CIRCUIT (1/2)
DATE	03JAN13			
CONTRACTOR REFERENCE NO. 2P705197-5700			KCRC REFERENCE NO. SP1900AB/XF/RR/M5019	SCALE
CADD REF. 004_372_100345_0020.B.dwg			NTS	DRAWING NO. OD4/372/100345/0020
				REV. B



PBPS:Parking Brake Puresure Switch  
PBPR:Parking Brake Pressure Relay  
HMSS:Hostler Mode Selector Switch  
BCCB:Brake Control Circuit Breaker  
HMB:Hostler Mode Breaker  
PBRLL:Parking Brake Release Lamp

							DRAWN	R LAW	 MTR	TITLE	SP1900 ELECTRIC MULTIPLE UNITS ELECTRICAL SCHEMATIC PARKING BRAKE CIRCUIT (2/2)	
							DESIGNED	-----	ORIGINATOR			
							CHECKED	R LEUNG	OPERATION DIVISION	TECHNICAL & ENGINEERING SERVICES DEPARTMENT		
							APPROVED	L WONG	DATE	03JAN13		
							B REDRAWN TO STANDARDISED TITLE BLOCK	R LAW	QW113	L WONG	DO NOT SCALE DRAWINGS. ALL DIMENSIONS SHALL BE IN MILLIMETRES. THIS DRAWING IS THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE AGREED IN WRITING. ANY COPIES MADE MUST BE APPROVED BY THE CONTRACTOR. THIS DRAWING IS THE PROPERTY OF THE CONTRACTOR AND IS FOR INTERNAL USE ONLY. IT MAY NOT BE COPIED OR DISSEMINATED WITHOUT THE CONTRACTOR'S PRIOR WRITTEN CONSENT. IT IS FOR THE CONTRACTOR'S USE ONLY.	
							A FIRST ISSUE	YNC	180U211	L WONG	CONTRACTOR REFERENCE NO. 30.761.012 ISSUE 04 KRC REFERENCE NO. SP1900AB/XF/RR/M5020	
REV	DESCRIPTION	BY	DATE	APPROVED	REV	DESCRIPTION	BY	DATE	APPROVED	CADD REF:	OD4_372_100345_0021_B.dwg	SCALE NTS DRAWING NO. OD4/372/100345/0021 REV. B



DLSR  
 EBPR  
 FBPR  
 FSBR  
 MCA1  
 MCR  
 STBR  
 SRPR  
 SRR  
 TODR  
 TORR  
 TOSR  
 ReAR

tosd-SRD Power on Relay  
 tosd-SRD Fault Relay  
 T OSD Disable Relay  
 T OSD Reset Relay  
 T OSD Relay  
 Rescue mode Aux. Relay

OSRR  
 25SRR  
 BKB  
 SRB  
 MSS  
 TOSS  
 TOBS  
 SG

0km/h Repeat Relay  
 25km/h Repeat Relay  
 Brake valve Braker  
 tosd-SRD Braker  
 Mode Selector Switch  
 T OSD Switch  
 T OSD Bypass Switch  
 Signal Generator

REM1: [ ] SHOWS YELLOW CABLE.  
 REM2: [ ] OF SG NUMBERING SHOWS DT2.

DRAWN R LAW  
 DESIGNED —  
 CHECKED R LEUNG  
 ORIGINATOR  
 APPROVED L WONG  
 DATE 10JAN13

**MTR**  
 OPERATION DIVISION

TECHNICAL & ENGINEERING  
 SERVICES DEPARTMENT

CONTRACTOR REFERENCE NO. 2P705199-5700  
 KCRC REFERENCE NO. SP1900AB/IF/RR/M5021

CADD REF. 004\_372\_100345\_0022\_C.dwg

TITLE SP1900 ELECTRIC MULTIPLE UNITS  
 ELECTRIC SCHEMATIC  
 TOSD-SRD I/O CIRCUIT

SCALE NTS DRAWING NO. OD4/372/100345/0022 REV. C

REV	DESCRIPTION	BY	DATE	APPROVED	REV	DESCRIPTION	BY	DATE	APPROVED
C	YML16527 TRIAL IMPLEMENTATION OF RIDE COMFORT AND TRACK CONDITION MONITORING SYSTEM ON A MOL SP TRAIN	C CHAU	04/02/25	S WONG					
B	REDRAWN TO STANDARDISED TITLE BLOCK	R LAW	03JAN13	L WONG					
A	FIRST ISSUE	YNC	18AUG11	L WONG					

## ABBREVIATIONS

ABBREVIATIONS

- C2B: Comp. Control Breaker
- MCAR: Master Controller Aux. Relay
- CMB: Compressor Breaker
- AMB: Aux. comp. Motor Breaker
- CMAR: Comp. Motor Aux. Relay
- CMGV: Comp. Motor Governor
- CMK: Comp. Motor contactor
- CPB: Compressor Motor Breaker
- CM: Comp. Motor
- ACM: Aux. Comp. Motor
- ACMGV: Aux. Comp. Motor Governor
- ACMK: Aux. Comp. Motor Contactator

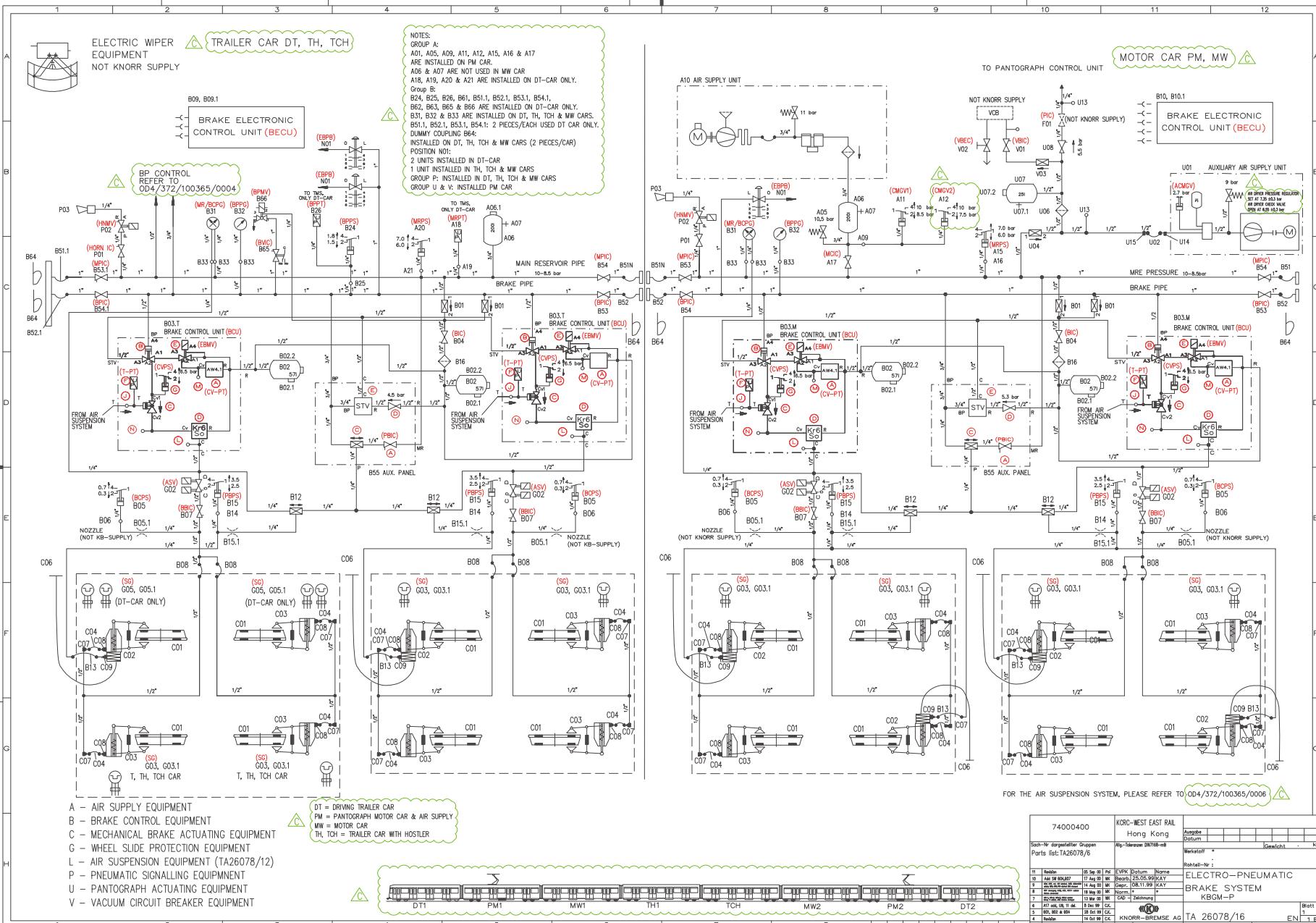
#### PRESSURE GOVERNOR SETTINGS

CMGV1 (A11): ON with under 8.5 bar  
OFF with upper 10 bar

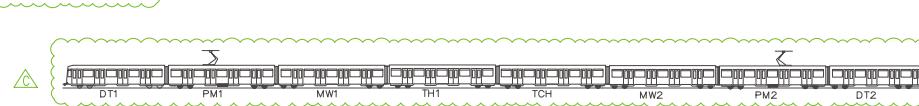
CMGV2 (A12): ON with under 7.5 bar  
OFF with upper 10 bar

ACMGV: ON with under 2.7 bar  
OFF via air dryer integrated  
pressure regulator set at 7.35 bar

					DRAWN	RASON LAW	 MTR ORIGINATOR	TITLE			
					DESIGNED	IKK					
					CHECKED	KENNY CHAU					
					APPROVED	SAM WONG/WING WONG					
					DATE	14/MAR/2025	OPERATION DIVISION		TECHNICAL & ENGINEERING SERVICES DEPARTMENT		
C DELETED PMH CAR CIRCUIT FOR 8-CAR CONVERSION, PRESSURE GOVERNOR SETTINGS REVIEWED AS PER EDC ZWL18208 R. LAW 14 MAR 25 SP1900											
B REDRAWN TO STANDARDISED TITLE BLOCK T CHAN 10 JAN 13 L. WONG											
A FIRST ISSUE SRD 26 JAN 07 C.C.											
REV	DESCRIPTION	BY	DATE APPROVED	REV	DESCRIPTION	BY	DATE APPROVED	CADD REF.	SCALE NTS (A1) DRAWING NO. REV. C		
								OD4_372_100365_0001_C.dwg	OD4/372/100365/0001		



A - AIR SUPPLY EQUIPMENT  
 B - BRAKE CONTROL EQUIPMENT  
 C - MECHANICAL BRAKE ACTUATING EQUIPMENT  
 G - WHEEL SLIDE PROTECTION EQUIPMENT  
 L - AIR SUSPENSION EQUIPMENT (TA26078/12)  
 P - PNEUMATIC SIGNALLING EQUIPMENT  
 U - PANTOGRAPH ACTUATING EQUIPMENT  
 V - VACUUM CIRCUIT BREAKER EQUIPMENT



74000400		KORC-WEST EAST RAIL	Ausgabe	Gewicht
Seite-Nr.	dargestellter Gruppen	Abg.-Nummer 88168-08	Datum	Name
Parts Edt:	TA26078/6			
11	Reihen	(5 Sep 00)	Pd	EWPK
10	AM 3K REIHE	17 Aug 00	Wk	Bearb. 25.05.99 KAY
9	AM 3K REIHE	17 Aug 00	Wk	25.11.99 KAY
8	AM 3K REIHE	18 Sep 00	Wk	Norm. 25.11.99
7	2x AM 3K REIHE	18 Sep 00	Wk	25.11.99
6	2x AM 3K REIHE	18 Sep 00	Wk	25.11.99
5	2x AM 3K REIHE	28 Oct 00	Wk	25.11.99
4	Reihen	14 Oct 00	CA	ELECTRO-PNEUMATIC
				BRAKE SYSTEM
				KBGM-P
				TA 26078/16
				KNORR-BREMSE AG
				Rev. 1.0

REV	DESCRIPTION	BY	DATE	APPROVED	REV	DESCRIPTION	BY	DATE	APPROVED
C	UPDATED FOR 8-CAR CONVERSION, ABBREVIATIONS ADDED & REVISED ITEM A12 PRESSURE SETTING AS PER EDC. 2M1900B	R. LAW	14 MAR 25	W. WONG		DRAWN	RASON LAW		
B	REDRAWN TO STANDARDISED TITLE BLOCK	T. CHAN	11 JAN 13	L. WONG		DESIGNED	KNORR-BREMSE		
A	FIRST ISSUE	SRO	26 JUN 07	C.C.		CHECKED	DICK CHOW		
						APPROVED	WING WONG		
DO NOT SCALE DRAWINGS. ALL DIMENSIONS SHALL BE IN MILLIMETRES. DRAWINGS ARE THE PROPERTY OF THE COMPANY LIMITED 2000 (REPRINTED BY THE COMPANY LIMITED 2000 LTD, 2000) AND ARE THE PROPERTY OF THE COMPANY LIMITED OF HONG KONG, WHICH OWNED BY THE COMPANY LIMITED 2000 LTD. NO PARTS OF THIS DRAWING MAY BE COPIED OR REPRODUCED, IN WHOLE OR IN PART, WITHOUT THE WRITTEN CONSENT OF THE OWNER OF THE DRAWING.									
CONTRACTOR REFERENCE NO. 2P705234-5510					KORC REFERENCE NO. SP1900AB/XF/RR/N7000				
CADD REF. OD4_372_100365_0002_C.dwg					TITLE SP1900 ELECTRIC MULTIPLE UNITS PNEUMATIC SCHEMATIC AIR PIPING OF BRAKE SYSTEM (1/3)				
					SCALE NTS (A1)				
					DRAWING NO. OD4/372/100365/0002				
					REV. C				

**MTR**

ORIGINATOR

OPERATION DIVISION

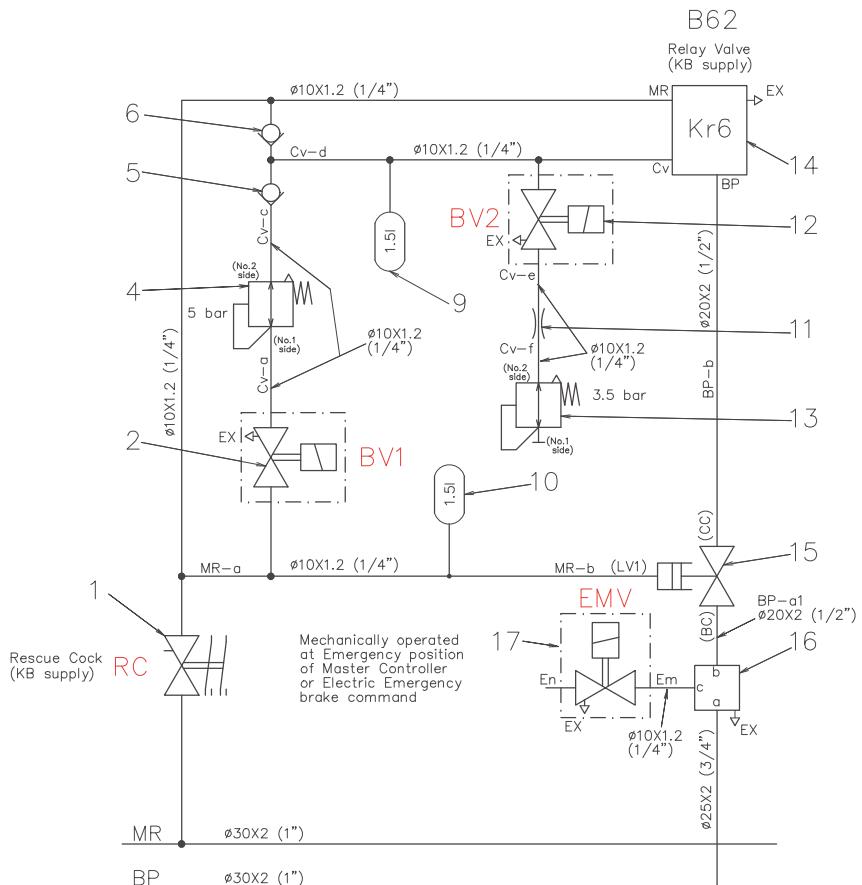
TECHNICAL & ENGINEERING SERVICES DEPARTMENT

ABBREVIATION	REF. NO.	DESCRIPTION	DRG.NO.	MATERIAL	PCS /SET	WEIGHT EACH TOTAL	REMARKS	REV. MARK
	562	Relay Valve With Bracket	B53848			I 75236(UPPER)		
	BCJ001	Bracket KR	C22318			I 73490(UPPER)		
	BCJ002	Relay Valve KR-6				I 79199(UPPER)		
RC	563	Isolating Cock 1/2" With Switch & Vent	A88493/A			I 43291/G(UNDER)		
	564	Dummy Coupling	A60153			I 25652(UNDER)		
	J01	Wheel Mounted Brake Disc	C87169/5			II 42225/5A(UNDER)		
	J02	Brake Caliper Unit	C82859			II 32439/30124(UNDER)		
	J02.1	Brake Pad KRS 400NZ 200RS-P Left	C56035/35442			C56035/(UNDER)		
	J02.2	Brake Pad KRS 400NZ 200RS-P Right	C56036/35442			C56036/(UNDER)		
	J03	Brake Caliper Unit	C82857			II 32437/24L(UNDER)		
	J03.1	Brake Pad KRS400NZ 200 KRS-P Left	C56035/35442			C56035/(UNDER)		
	J03.2	Brake Pad KRS400NZ 200 KRS-P Right	C56036/35442			C56036/(UNDER)		
	J04	Hose Connection	C86407			II 44729/04516NN(UNDER)		
	J06	Remote Control	C67000			II 32245/135(UNDER)		
	J07	Socket VZ-DN16	C53816			II 14818/9(UNDER)		
	J08	Socket VEZ-DN16	B61439			II 14260/3(UNDER)		
	J09	Socket VEZ-DN8	B61439			II 14260/5(UNDER)		
		Blank						
ASV	J02	Dump Valve, For Pipe Mounting	B96113			II 17941/15024(UNDER)		
	J02.1	Plug With Cable	B66097/B			J 82796/15008(UNDER)		
SG	J03	Speed Sensor (Obsolete)	N56943			II 45666/130(UNDER)		
	J03	Speed Sensor (New Type)	N62885			STN01454/145005A(UNDER)		
	J03.1	Plug Socket	N56572			II 44441(UNDER)		
	J03.1	Plug Socket (New Type)	N57781			STN29829(UNDER)		
SG	J05	Speed Sensor (Obsolete)	N56944			II 45663/130(UNDER)		
	J05	Speed Sensor (New Type)	N62902			STN01455/147005G(UNDER)		
	J05.1	Plug Socket	N56572			II 44441(UNDER)		
	J05.1	Plug Socket (New Type)	N57781			STN29829(UNDER)		
EBPB	J01	Emergency Application Valve	C62103			II 30238/4(UNDER)		
HORN IC	J01	Isolating Cock 1/2" With Vent	A63024			I 25658(UNDER)		
HNMV	J02	Magnet Valve	B68463			I 82555/110(UNDER)		
	J02.1	Socket	N63221F			STN33642/F007(UNDER)		
	J03	Microphone	B94584			I 15686(UNDER)		
	J03.1	Auxiliary Air Supply System LP115	8.115.1.003.002			8.115.1.401.751.9(UNDER)		
	J02	Hose Connection, 0.5m	8.000.0.939.701.5			8.000.0.939.701.5(UNDER)		
		Blank						
	J04	Check Valve	A59143/..			I 25352(UNDER)		
	J06	Air Filter	B92961			I 19966(UNDER)		
	J07	Air Reservoir	C74497			II 38284/025(UNDER)		
	J07.1	Drain Cock	A66272			II 42097(UNDER)		
	J07.2	Screw Plug	C80765			C54610/4(UNDER)		
	J08	Pressure Reducing Valve	A88608			I 43364/500(UNDER)		
	J09	Test Fitting	B41736			I 68943(UNDER)		
	J14	Connection Between LP115 and Pipe	C55553/7					
	J15	Double-end Union	B56833			I 57121/1009(UNDER)		
VBIC	J01	Isolating Cock With Vent	C54346			II 15317(UPPER)		
VBEC	J02	Drain Cock	A66272			I 34901(UPPER)		
	J03	Check Valve	A59143/..			I 25352(UPPER)		
	J04	Test Fitting	B59959			I 79633(UPPER)		
	J51.1	Brake Pipe Coupling	A96123			I 75443/800(UNDER)		
	J52.1	Brake Pipe Coupling	B40670			I 75422/650(UNDER)		
MPIC	J53.1	Straight End Cock (Right)	B93571			I 14430(UNDER)		
BPIC	J54.1	Straight End Cock (Left)	B93572			I 14431(UNDER)		
	J54.1	Brake Pipe Coupling With Valve	A96123			I 75443/620(UNDER)		
BVIC	J65	Isolating Cock (Obsolete)	B66940			I 75940/012(UNDER)		
	J66	Isolating Cock (New Type)	B66940			I 77940/002(UNDER)		
BPMV	J66.1	Magnet Valve	B76627/1			I 86708/110(UNDER)		
	J66.1	Socket	N63221F			STN33642/F007(UNDER)		

ABBREVIATION	REF. NO.	DESCRIPTION	DRG.NO.	MATERIAL	PCS /SET	WEIGHT EACH TOTAL	REMARKS	REV. MARK
	A01	Air Supply Unit SL	C83093				II 42831(UNDER)	
	A05	Safety Valve, 10.5 bar	C73994				II 38273/7105(UNDER)	
	A06	Air Reservoir	C74497				II 38284/200(UNDER)	
	A06.1	Screw Plug	C80765				C54610/1(UNDER)	
	A07	Drain Cock	A66272				I 42346(UNDER)	
	A09	Test Fitting	B41736				I 68943(UNDER)	
CMGV1	A11	Pressure Governor	B72425				J 8649/10085(UNDER)	
CMGV2	A12	Pressure Governor	B72425				I 8649/10075(UNDER)	
MRPS	A15	Pressure Governor	C59648				II 18610/0760(UNDER)	
	A16	Test Fitting	B41736				I 68943(UNDER)	
MCIC	A17	Isolating Cock 1/2" With Vent	A64303				I 26630(UNDER)	
MRPT	A18	Pressure Transducer	B71189/C				I 84042/CS(UNDER)	
	A18.1	Bracket	B63934				I 80595(UNDER)	
	A19	Test Fitting	B41736				I 68943(UNDER)	
MRPS	A20	Pressure Governor	C59648				II 18610/0780(UNDER)	
	A21	Test Fitting	B41736				I 68943(UNDER)	
	A21.1	Check Valve	A59143/..				I 25352(UNDER)	
	A22	Air Reservoir	C74497				II 38284/057(UNDER)	
	A22.1	Screw Plug	C80765				C54610/5(UNDER)	
	A22.2	Screw Plug	C80765				C54610/4(UNDER)	
BCU	B03-M	Brake Control Unit	C88195				II 43739/0110A(UNDER)	
BCU	B03-T	Brake Control Unit	C88195				II 43739/0110B(UNDER)	
BIC	B04	Isolating Cock With Exhaust	C72128				I 23151/14(UPPER)	
BCPS	B05	Pressure Governor	C59648				II 18610/00804(UNDER)	
	B06	Test Fitting	B41736				I 68943(UNDER)	
BBIC	B07	Isolating Cock With Exhaust	C72128				I 23151/5(UNDER)	
	B08	Hose Connection	C86470				II 44729/07216NN(UNDER)	
	B09	Brake Control KBGM-P	T26078/25				STN29129(UNDER)	
	B09.1	Set of Connectors KBGM-P					STN29128(UNDER)	
EBCU	B10	Brake Control KBGM-P	T26078/21				STN28957(UNDER)	
	B10.1	Set of Connectors KBGM-P					STN28956(UNDER)	
	B12	Two Way Valve	A39751				I 15658(UNDER)	
	B13	Hose Connection	C86470				II 44729/0631NN(UNDER)	
	B14	Test Fitting	B41736				I 68943(UNDER)	
PBPS	B15	Pressure Governor	C59648				II 18610/03525(UNDER)	
	B16	Air Filter	A31357				I 11775(UNDER)	
	B17	Check Valve	A33007				I 12546(UNDER)	
BPPS	B18	Pressure Governor	C59648				II 18610/01815(UNDER)	
	B19	Test Fitting	B41736				I 68943(UNDER)	
BPPT	B20	Pressure Transducer	B71189/C				I 84042/CS(UNDER)	
	B20.1	Bracket	B63934				I 80595(UNDER)	
MR/BCPG	B31	Double Pressure Gauge	B70411				I 83563(UPPER)	
BPPG	B32	Pressure Gauge	C62440				II 30512(UPPER)	
	B33	Test Fitting	B41736				I 68943(UNDER)	
	B52	Brake Pipe Coupling	B40670				I 75422/620(UNDER)	
MRIC/BPIC	B53	Angle Cock Right	A83821				I 41081(UNDER)	
MRIC/BPIC	B54	Angle Cock Left	A78972				I 35875(UNDER)	
	B55-M	Auditory Control Unit ZGE-60A	C84326/A				II 43594/0110A(UNDER)	
	B55-T	Auditory Control Unit ZGE-60B	C84326/B				II 43594/0110B(UNDER)	
	B05.1	Nozzle					Ø1.0	
	B08.1	Socket VZ-DN16	C53816				II 14818/9(UNDER)	
	B13.1	Socket VZ-DN10-1/4"					II 14818/10(UNDER)	
	B15.1	Nozzle					Ø1.0	

NOTE UNDER: UNDER FLOOR EQUIPMENT  
UPPER: UPPER FLOOR EQUIPMENT

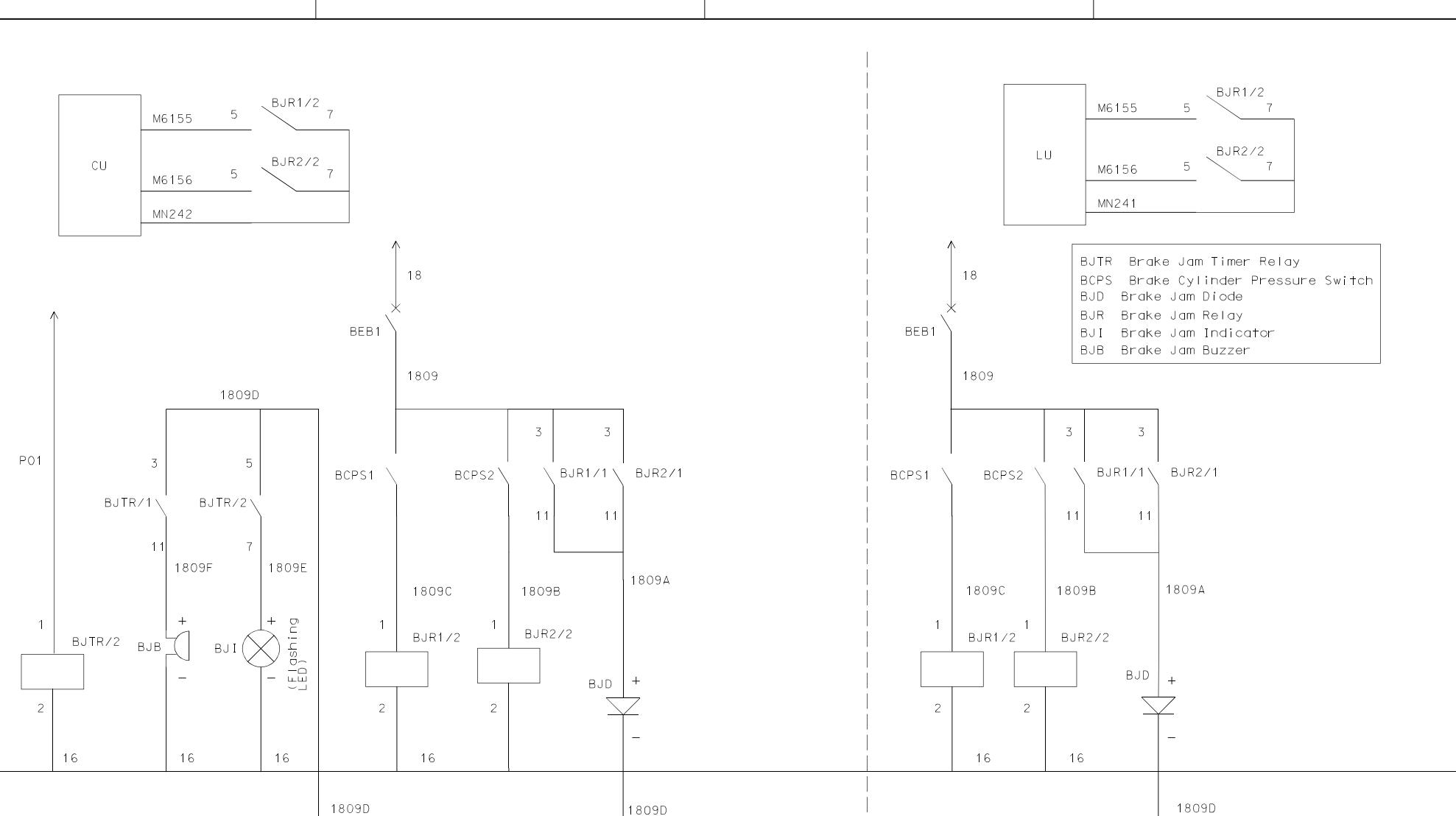
<b>MTR</b>		ORIGINATOR
OPERATION DIVISION		TECHNICAL & ENGINEERING SERVICES DEPARTMENT
CONTRACTOR REFERENCE NO.	1P719701-5700	KRC REFERENCE NO.
		SP1900AB/XFR/R/N7001
CADD REF.	0D4_372_100365_0003.C.dwg	
SCALE	NTS (A1)	DRAWING NO.
	0D4/372/100365/0003	
REV	C	



ITEM	DESCRIPTION	VENDOR/PART NO.	MATERIAL	QTY. /SET	WEIGHT		REMARKS	REV.
					WT./PC	WT.TOTAL		
1	RESCUE COCK (RC)	A88493/A					(CAB)	△
2	CHARGING MV (BV1)						(Master Controller)	
3								
4	REDUCING VALVE (5 bar)	2033783-91					(Under floor)	
5	CHECK VALVE (1)	2033034-91					(Under floor)	
6	CHECK VALVE (2)	2033034-91					(CAB)	
7								
8								
9	CHAMBER 1.5 Litre						(Under floor)	
10	CHAMBER 1.5 Litre						(Under floor)	
11	CHOKE (2)						(Under floor)	
12	DISCHARGING MV (BV2)						(Master Controller)	△
13	REDUCING VALVE (3.5 bar)	2033783-91					(Under floor)	
14	RELAY VALVE	B53848					(CAB)	
15	SHUT OUT VALVE	20-33721-01					(Under floor)	
16	D-TYPE DUMP VALVE	20-21404-92					(Under floor)	
17	EMERGENCY MV (EMV)						(Master Controller)	

Remarks: "CAB", "Master Controller" and "Under floor" means the location of the installation.

					DRAWN DESIGNED CHECKED APPROVED DATE	RASON LAW --- DICK CHOW WING WONG 14/MAR/2025	 MTR ORIGINATOR	OPERATION DIVISION	TECHNICAL & ENGINEERING SERVICES DEPARTMENT	TITLE			
	C ABBREVIATIONS ADDED, REVISED TYPO ERROR	R. LAW	14 MAR 25	N. WONG						SP1900 ELECTRIC MULTIPLE UNITS PNEUMATIC SCHEMATIC AIR PIPING OF BRAKE SYSTEM (3/3)			
	B REDRAWN TO STANDARDISED TITLE BLOCK	T. CHAN	14 JAN 13	L. WONG									
	A FIRST ISSUE	SRD	26 JAN 07	C.C.									
REV	DESCRIPTION	BY	DATE	APPROVED	REV	DESCRIPTION	BY	DATE	APPROVED	NTS (A1)	DRAWING NO.	0D4/372/100365/0004	REV. C



DT CAR

INTERMEDIATE CARS

REV.	DESCRIPTION	REV.	DATE	APPROVED	REV.	DATE	CHECKED	REV.	DATE	DESIGNED	REV.	DATE	CS-CADD		MTR OPERATOR	CONTRACTOR REF.	CADD REF.	SCALE	NTS	DRAWING NO.	REV.	
													AMC	CS-CADD								
<b>A ZML10339 PROVIDE BRAKE JAM INDICATOR ON SP1900 &amp; SP1950 TRAINS</b>																						
	DESCRIPTION	REV.	DATE	APPROVED	REV.	DATE	CHECKED	REV.	DATE	DESIGNED	REV.	DATE	AMC	CS-CADD	MTR OPERATOR	CONTRACTOR REF.	CADD REF.	SCALE	NTS	DRAWING NO.	REV.	