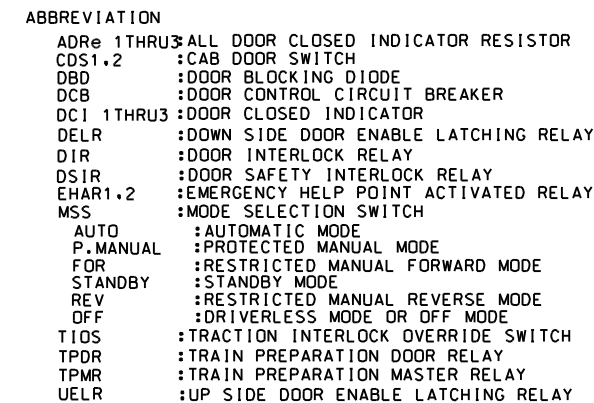


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NOTE.
1. WIRE NUMBERS ENCLOSED BY , INDICATE THAT YELLOW WIRE IS USED.

KCRC	WR	DT2	A	*	B901
KCRC	WR	DT1	A	*	B901
APPLIED CAR	CAR TYPE	GROUP	PCS/CAR	RS INC.	GROUP NO.

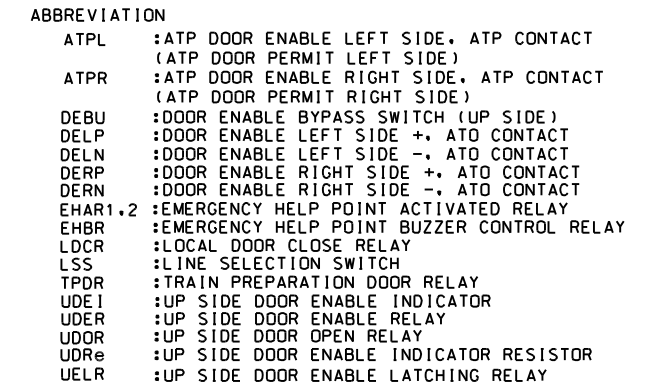
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DESIGNED BY	NIL
DRAWN BY	SRD
CHECKED BY	K. Y. CHEUNG
IN CHARGE	C. C. HON
DATE	26 JAN 2007



TITLE	SP1900 ELECTRIC MULTIPLE UNITS ELECTRICAL SCHEMATIC DOOR CONTROL CIRCUIT (1/6) DT1, DT2 CAR (WR ONLY)
-------	---

SCALE		NTS @ A1	
ORIGINATOR KS	ORIGINATOR REFERENCE 1-UB02659-1	ORG REF REV m	
DRAWING NUMBER SP1900AB/XB/RR/M5005			REV 0
RAILWAY WR	LOCATION PMC	STAGE Z	SHEET NO 1



KCRC WR	DT2	A	*	B901
KCRC WR	DT1	A	*	B901
APPLIED CAR	CAR TYPE	GROUP	PCS/CAR	RS DNG. CONT'D. IN.

DESIGNED BY	NIL
DRAWN BY	SRD
CHECKED BY	K. Y. CHEUNG
IN CHARGE	C. C. HON
DATE	26JAN2007

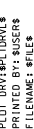


SCALE		NTS @ A1	
ORIGINATOR KS	ORIGINATOR REFERENCE 1-UB02659-2	ORIG REF REV D	
DRAWING NUMBER SP1900AB/XB/RR/M5006			REV 0
RAILWAY WR	LOCATION PMC	STAGE Z	SHEET NO 1

```

PLOT DRV:$PLIDRVLS
PRINTED BY: $USERS
FILENAME: $FILES

```



```

ATPL      :ATP DOOR ENABLE LEFT SIDE, ATP CONTACT
           (ATP DOOR PERMIT LEFT SIDE)
ATPR      :ATP DOOR ENABLE RIGHT SIDE, ATP CONTACT
           (ATP DOOR PERMIT RIGHT SIDE)
DDEI      :DOWN SIDE DOOR ENABLE INDICATOR
DDER      :DOWN SIDE DOOR ENABLE RELAY
DORR      :DOWN SIDE DOOR OPEN RELAY
DORr      :DOWN SIDE DOOR ENABLE INDICATOR RESISTOR
DEBD      :DOOR ENABLE BYPASS SWITCH (DOWN SIDE)
+DORL      :DOOR ENABLE LEFT SIDE +, ATP CONTACT
DELN      :DOOR ENABLE LEFT SIDE -, ATP CONTACT
DERP      :DOOR ENABLE RIGHT SIDE +, ATP CONTACT
DERN      :DOOR ENABLE RIGHT SIDE -, ATP CONTACT
DCLR      :DOWN SIDE DOOR ENABLE LATCHING RELAY
+DCLC      :LOCAL DOOR CLOSE RELAY
LSS       :LINE SELECTION SWITCH
TPDR      :TRAIN PREPARATION DOOR RELAY

```

1. WIRE NUMBERS ENCLOSED BY [] , INDICATE THAT YELLOW WIRE IS USED.

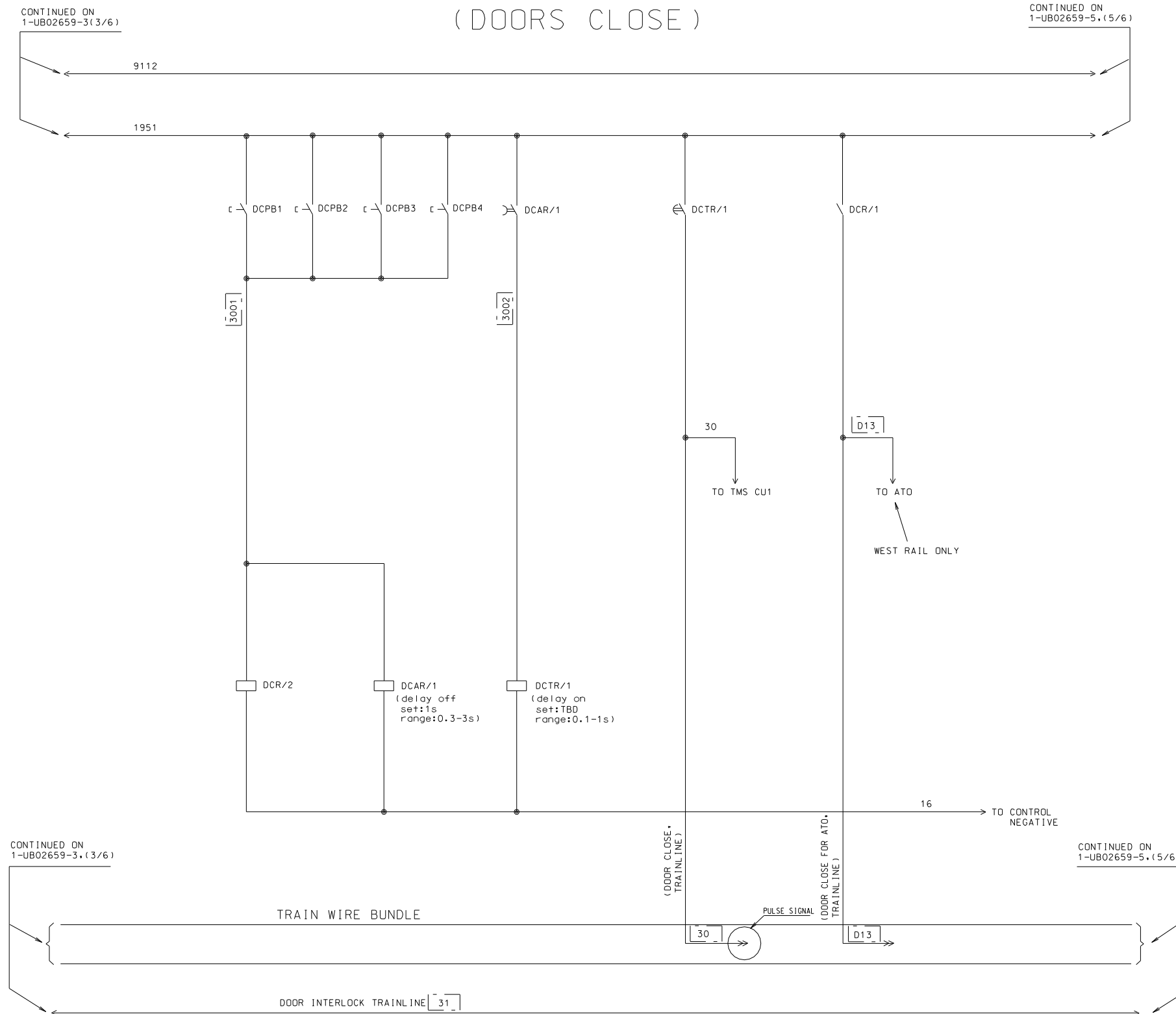
2. REGARDING WIRE NUMBERS AND CONTACT NAMES OF ATP AND ATO, WITHOUT []
INDICATE DT1 CAR, WITH [] INDICATE DT2 CAR.

NTS @ A1			
ORIGINATOR REFERENCE	DWS REF REV		
1-UB02659-03	m		
NUMBER	REV		
00AB/XB/RR/M5007	0		
LOCATION	STAGE	SHEET NO	
PMC	Z	1	

FULL SIZE A1

DT1 , DT2 CAR
(DOORS CLOSE)


ABBREVIATION	
DCR	:DOOR CLOSE RELAY
DCAR	:DOOR CLOSE AUXILIARY TIMER RELAY
DCTR	:DOOR CLOSE TIMER RELAY
DCPB1-4	:DOOR CLOSE PUSHBUTTON



NOTE.
WIRE NUMBERS ENCLOSED BY [], INDICATE THAT YELLOW WIRE IS USED.

KCRC WR	DT2	A	*	B901
KCRC WR	DT1	A	*	B901
KCRC ER	DT2	A	*	B901
KCRC ER	DT1	A	*	B901
APPLIED CAR	CAR TYPE	GROUP	PCS/CAR	K5 DRG. CROSS NO.

[illegible]

DESIGNED BY NIL	 <div> KCR 九廣鐵路 </div>	<div>運輸部</div> <div>Transport Division</div>
DRAWN BY SRD		
CHECKED BY K. Y. CHEUNG		
IN CHARGE C. C. HON		
DATE 26 JAN 2007		

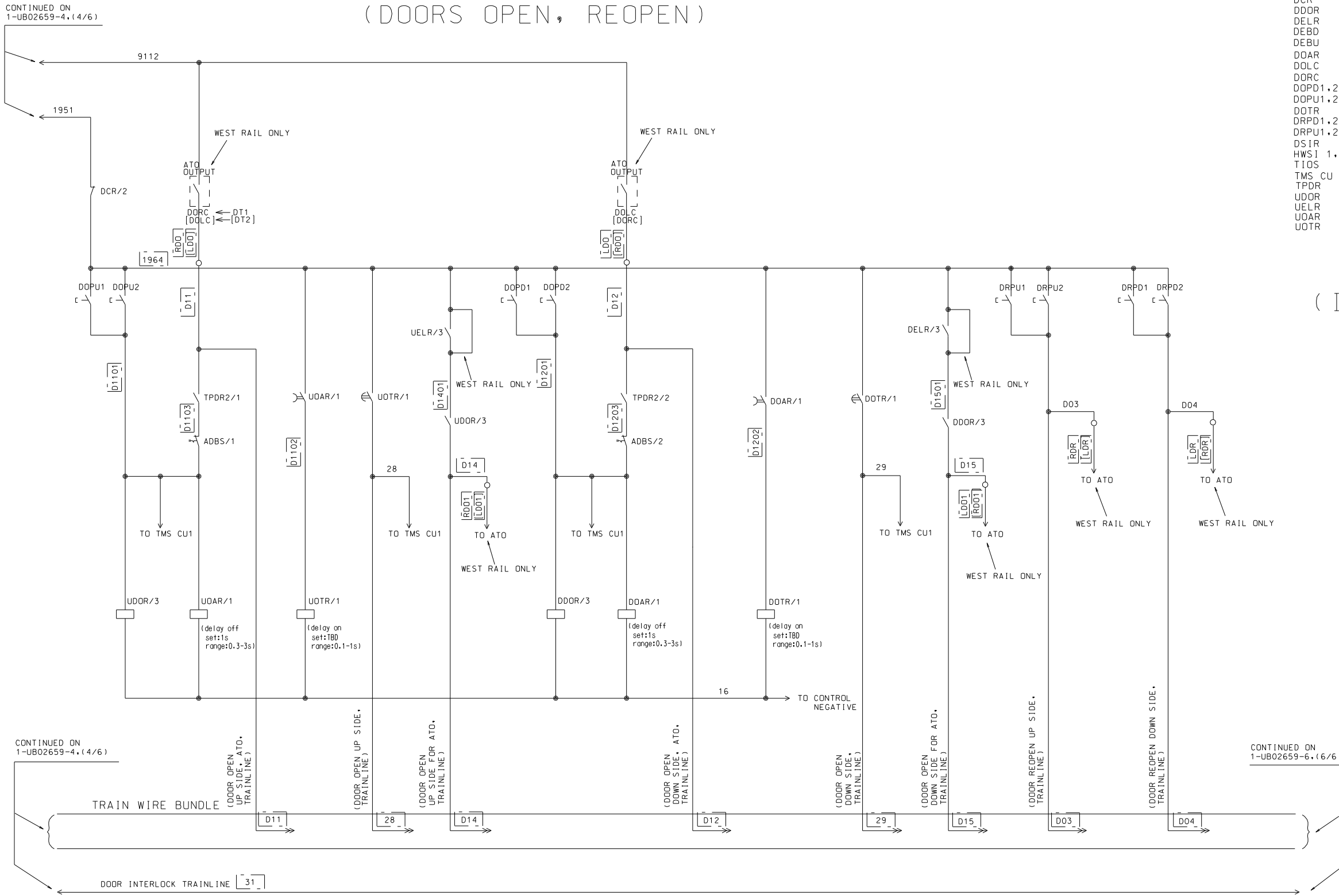
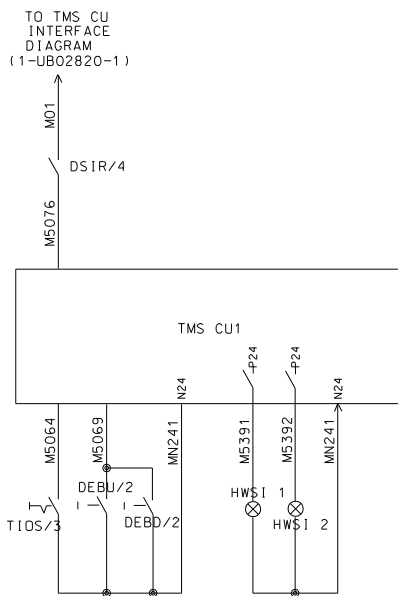
TITLE	SP1900 ELECTRIC MULTIPLE UNITS ELECTRICAL SCHEMATIC DOOR CONTROL CIRCUIT (4/6) DT1, DT2 CAR (WR ONLY)
-------	---

SCALE		NTS @ A1		DRG REF NO.
ORIGINATOR KS	ORIGINATOR REFERENCE 1-UB02659-04		DRG REF REV C	
DRAWING NUMBER SP1900AB/XB/RR/M5008			REV 0	
RAILWAY ER	LOCATION HTL	STAGE Z	SHEET NO 1	

DT1 , DT2 CAR
(DOORS OPEN, REOPEN)

- ABBREVIATION
- ADBS :AUTOMATIC DOOR BYPASS SWITCH
 - DCR :DOOR CLOSE RELAY
 - DDOR :DOWN SIDE DOOR OPEN RELAY
 - DELR :DOWN SIDE DOOR ENABLE LATCHING RELAY
 - DEBD :DOOR ENABLE BYPASS SWITCH (DOWN SIDE)
 - DEBU :DOOR ENABLE BYPASS SWITCH (UP SIDE)
 - DOAR :DOWN SIDE DOOR OPEN AUXILIARY TIMER RELAY
 - DOLC :DOOR OPEN LEFT SIDE COMMAND, ATO CONTACT
 - DORC :DOOR OPEN RIGHT SIDE COMMAND, ATO CONTACT
 - DOPD1,2 :DOOR OPEN PUSHBUTTON (DOWN SIDE)
 - DOPU1,2 :DOOR OPEN PUSHBUTTON (UP SIDE)
 - DOTR :DOWN SIDE DOOR OPEN TIMER RELAY
 - DRPD1,2 :DOOR REOPEN PUSHBUTTON (DOWN SIDE)
 - DRPU1,2 :DOOR REOPEN PUSHBUTTON (UP SIDE)
 - DSIR :DOOR SAFETY INTERLOCK RELAY
 - HWS1 1,2:HEAD WALL END SELECTION INDICATOR
 - TIOS :TRACTION INTERLOCK OVERRIDE SWITCH
 - TMS CU :TMS CENTRAL UNIT
 - TPDR :TRAIN PREPARATION DOOR RELAY
 - UDOR :UP SIDE DOOR OPEN RELAY
 - UELRL :UP SIDE DOOR ENABLE LATCHING RELAY
 - UOAR :UP SIDE DOOR OPEN AUXILIARY TIMER RELAY
 - UOTR :UP SIDE DOOR OPEN TIMER RELAY

(INTERFACE WITH TMS)



- NOTE.
1. WIRE NUMBERS ENCLOSED BY [] , INDICATE THAT YELLOW WIRE IS USED.
 2. REGARDING WIRE NUMBERS AND CONTACT NAMES OF ATO, WITHOUT [] INDICATE DT1 CAR, WITH [] INDICATE DT2 CAR.

KCRC	WR	DT2	A	*	B901
KCRC	WR	DT1	A	*	B901
KCRC	ER	DT2	A	*	B901
KCRC	ER	DT1	A	*	B901
APPLIED CAR		CAR TYPE	GROUP	PCS/CM	KS DWG. GROUP NO.

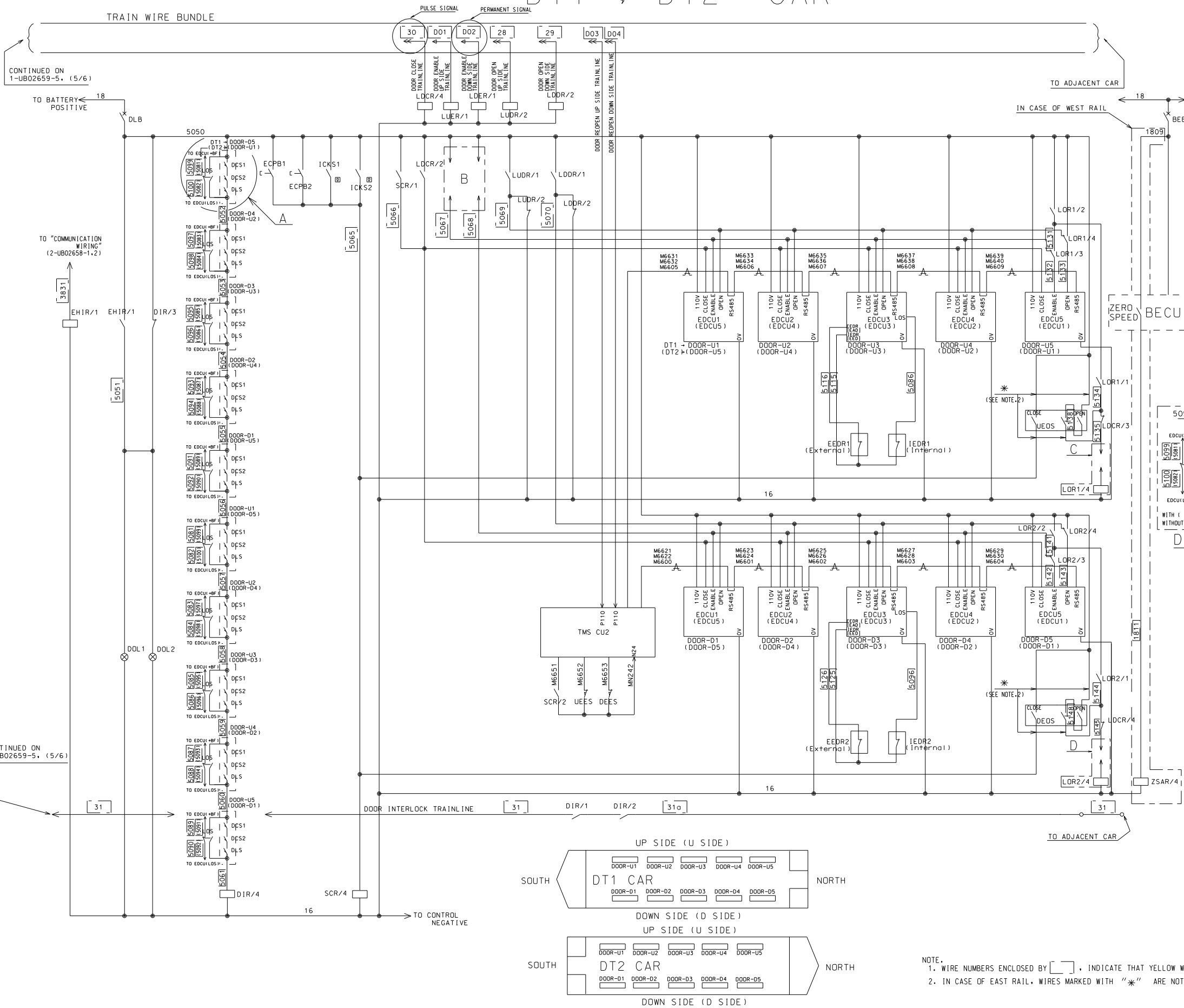
DESIGNED BY NIL	DATE 26JAN2007
DRAWN BY SRD	BY SUB
CHECKED BY K.Y.CHEUNG	APP APP
IN CHARGE C.C.HON	
DESCRIPTION	DESCRIPTION



TITLE
SP1900 ELECTRIC MULTIPLE UNITS
ELECTRICAL SCHEMATIC
DOOR CONTROL CIRCUIT (5/6)
DT1, DT2 CAR

SCALE NTS @ A1	ORIGINATOR KS	ORIGINATOR REFERENCE 1-UB02659-05	ORIG REF REV k
DRAWING NUMBER SP1900AB/XB/RR/M5009	RAILWAY ER	LOCATION HTL	STAGE Z
REV 0	SHEET NO 1		

DT1, DT2 CAR



ABBREVIATION

```

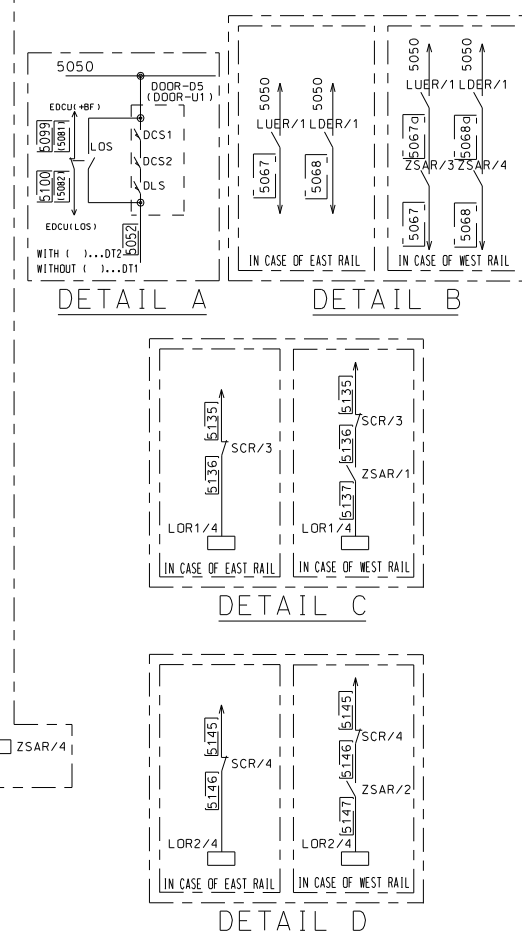
DECS1,2 : DOOR CLOSDER SWITCH
DEED : DEED (IEDR2) ACCESS DETECTION SWITCH
DEOS : DOWN SIDE EXTERNAL OPEN/CLOSE KEY SWITCH
DIR : DOOR INTERLOCK RELAY
DLR : DOOR LOCAL CONTROL RELAY
DLS : DOOR LOCAL SWITCH
DOLI,2 : DOOR OPEN LIGHT
ECPB1,2 : EXTERIOR STAFF CLOSE PUSHBUTTON
ELC : ELECTRONIC CONTROL UNIT
EEDR1,2 : EXTERIOR EMERGENCY DOOR RELEASE DEVICE
EHIR : EMERGENCY HELP POINT ACTIVATED INDICATION RELAY
IBE1,2 : INTERIOR STAFF CLOSE KEY SWITCH
IEDR1,2 : INTERIOR EMERGENCY DOOR RELEASE DEVICE
LDR : LOCAL DOWN SIDE DOOR RELAY
LDR : LOCAL DOWN SIDE ENABLE RELAY
LORI,2 : LOCAL OPEN RELAY
LOS : LOCK OUT SWITCH
LUOR : LOCAL UP SIDE DOOR RELAY
LUER : LOCAL UP SIDE ENABLE RELAY
SCR : STAFF CLOSE RELAY
TMS CU2 : TMS CENTRAL UNIT
DEED (IEDR1) : DEED (IEDR1) ACCESS DETECTION SWITCH
UEOS : UP SIDE EXTERNAL OPEN/CLOSE KEY SWITCH
ZSAR : ZERO SPEED AUXILIARY RELAY

```

EDCU CODING ON RS485 (P4 CONNECTOR)

EDCU1: shunt between NU1(p/n: 2) and strap1(p/n:1), w/n: DU11
EDCU2: shunt between NU2(p/n: 3) and strap1(p/n:1), w/n: DU22
shunt between NU3(p/n: 4) and strap2(p/n:6), w/n: DU22
EDCU3: shunt between NU2(p/n: 3) and strap1(p/n:1), w/n: DU31
shunt between NU4(p/n: 7) and strap2(p/n:6), w/n: DU32
EDCU4: shunt between NU2(p/n: 3) and strap1(p/n:1), w/n: DU41
EDCU5: shunt between NU3(p/n: 4) and strap1(p/n:1), w/n: DU51
shunt between NU4(p/n: 7) and strap2(p/n:6), w/n: DU52

TERMINATING CONNECTION ON RS485 (P5 CONNECTOR)
EDCU5: shunt between RDV11(p/n: 2) and RTV11(p/n:7), w/n: DU61
(DT1 ONLY)
EDCU1: shunt between RDV11(p/n: 2) and RTV11(p/n:7), w/n: DU61
(DT2 ONLY)



NOTE.

- NOTE.
1. WIRE NUMBERS ENCLOSED BY , INDICATE THAT YELLOW WIRE IS USED.
 2. IN CASE OF EAST RAIL, WIRES MARKED WITH "＊" ARE NOT CONNECTED TO UEOS, DEOS.

KCRC	WR	DT2	A	*	B90
KCRC	WR	DT1	A	*	B90
KCRC	ER	DT2	A	*	B90
KCRC	ER	DT1	A	*	B90
APPLIED CAR	CAR TYPE	GROUP	PCS/CAR	K5 DRG GROUP A	

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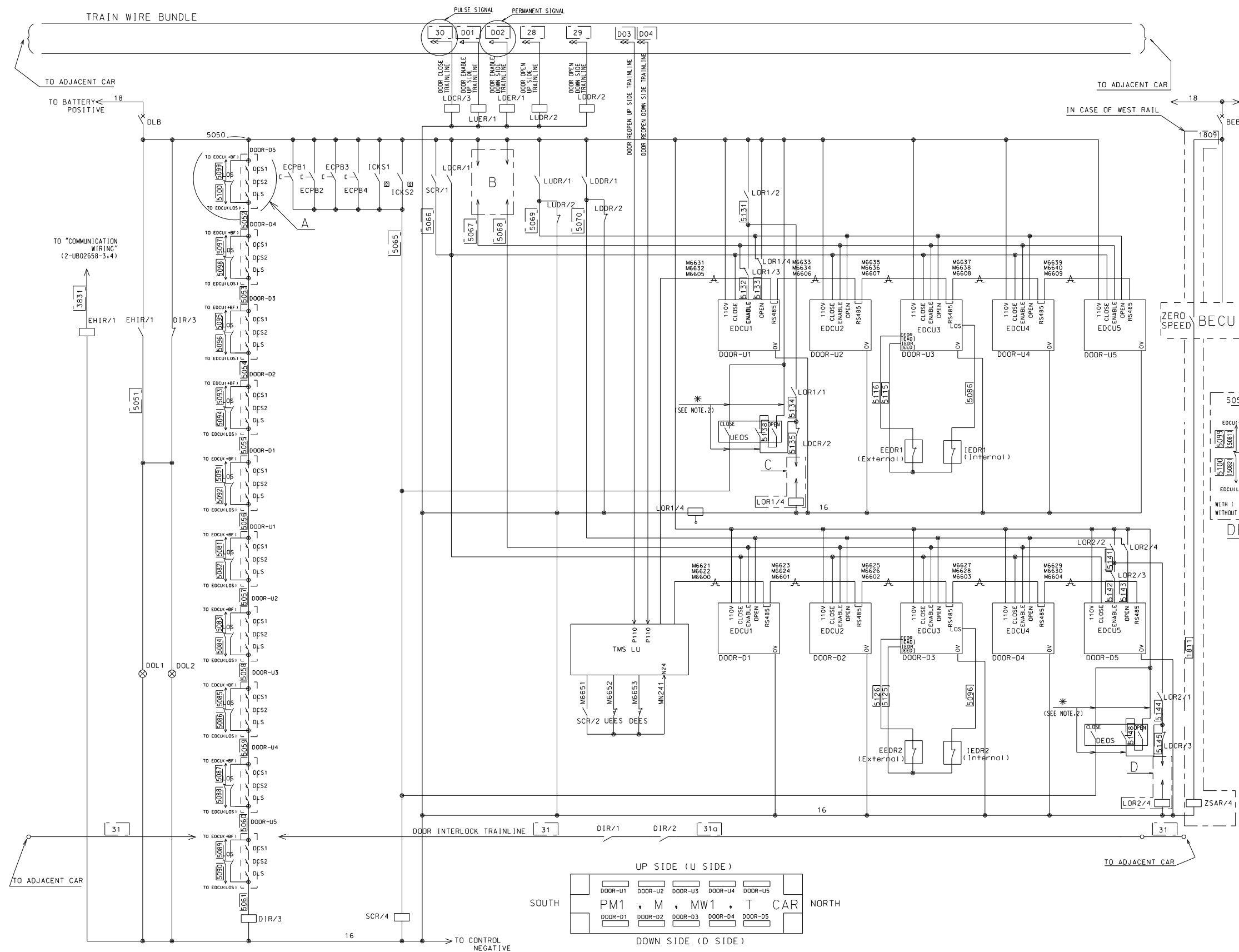
DESIGNED BY	NIL
DRAWN BY	SRD
CHECKED BY	K. Y. CHEUNG
IN CHARGE	C. C. HON
DATE	26 JUN 2007



TITLE	SP1900 ELECTRIC MULTIPLE UNITS ELECTRICAL SCHEMATIC DOOR CONTROL CIRCUIT (6/6) DT1, DT2 CAR
-------	--

SCALE		NTS @ A1		ORC REF
ORIGINATOR KS	ORIGINATOR REFERENCE 1-UB02659-06			h
DRAWING NUMBER SP1900AB/XB/RR/M5010			REV 0	
RAILWAY ER	LOCATION HTL	STAGE Z	SHEET NO 1	

PM1, M, MW1, T CAR



ABBREVIATION

```

DCS1,2      :DOOR CLOSED SWITCH
DEES        :DEED (IEDR2) ACCESS DETECTION SWITCH
DEOS        :DOWN SIDE EXTERNAL OPEN/CLOSE KEY SWITCH
DIR         :DOOR INTERLOCK RELAY
DLR         :DOOR LOCAL CONTROL CIRCUIT BREAKER
DLB         :DOOR LOCKED SWITCH
DOL1,2     :DOOR OPEN LIGHT
EDCP1THRU4 :EXTERIOR OPEN CLOSE PUSHBUTTON
EDCU        :ELECTRONIC DOOR CONTROL UNIT
EEDR1,2     :EXTERIOR EMERGENCY DOOR RELEASE DEVICE
EHIR        :EMERGENCY HELP POINT ACTIVATED INDICATION RELAY
ICKS1,2     :INTERIOR STAFF CLOSE KEY SWITCH
IEDR1,2     :INTERIOR EMERGENCY DOOR RELEASE DEVICE
LDCR        :LOCAL DOOR CLOSE RELAY
LDCR        :LOCAL DOWN SIDE DOOR RELAY
LDR         :LOCAL DOWN SIDE ENABLE RELAY
LOR1,2     :LOCAL OPEN RELAY
LOS         :LOCK OUT SWITCH
LUDR        :LOCAL UP SIDE DOOR RELAY
LUER        :LOCAL UP SIDE ENABLE RELAY
SSR         :STAFF CLOSE RELAY
TMS LU      :TMS LOCAL UNIT
UEES        :UEED (IEDR1) ACCESS DETECTION SWITCH
UEOS        :UP SIDE EXTERNAL OPEN/CLOSE KEY SWITCH
ZSAR        :ZERO SPEED AUXILIARY RELAY

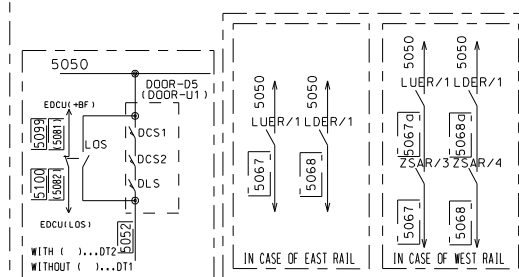
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EDCU CODING ON RS485 (P4 CONNECTOR)

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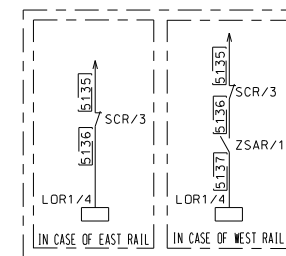
EDCU1: shunt between NU1(p/n: 2) and strap1(p/n:1), w/n: DU11
EDCU2: shunt between NU2(p/n: 3) and strap1(p/n:1), w/n: DU12
      shunt between NU2(p/n: 4) and strap2(p/n:6), w/n: DU22
EDCU3: shunt between NU3(p/n: 3) and strap1(p/n:1), w/n: DU31
      shunt between NU4(p/n: 7) and strap2(p/n:6), w/n: DU32
EDCU4: shunt between NU2(p/n: 3) and strap1(p/n:1), w/n: DU41
EDCU5: shunt between NU3(p/n: 4) and strap1(p/n:1), w/n: DU51
      shunt between NU4(p/n: 7) and strap2(p/n:6), w/n: DU52
TERMINATING CONNECTION ON RS485 (P5 CONNECTOR)
EDCU5: shunt between RDV11(p/n: 2) and RTV11(p/n:7), w/n: DU6

```

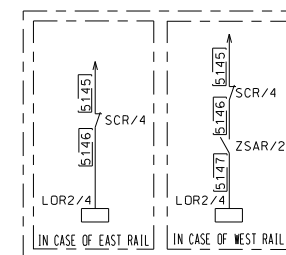


DETAIL A

DETAIL B



DETAIL C



DETAIL D

NOTE.

- NOTE:
1. WIRE NUMBERS ENCLOSED BY , INDICATE THAT YELLOW WIRE IS USED.
 2. IN CASE OF EAST RAIL, WIRES MARKED WITH "*" ARE NOT CONNECTED TO UEDS, DEOS.

KCRC	WR	PM1	A	*	B901
KCRC	ER	M	A	*	B901
KCRC	ER	PM1	A	*	B901
APPLIED CAR	CAR TYPE	GROUP	PCS/CAR	KS DWG. GROUP No.	

SCALE		NTS @ A1	
ORIGINATOR KS	ORIGINATOR REFERENCE 1-UB02660	ORD REF j	REV
DRAWING NUMBER SP1900AB/XB/RR/M5011			0
RAILWAY ER	LOCATION HTL	STAGE Z	SHEET NO 1

FULL SIZE A1

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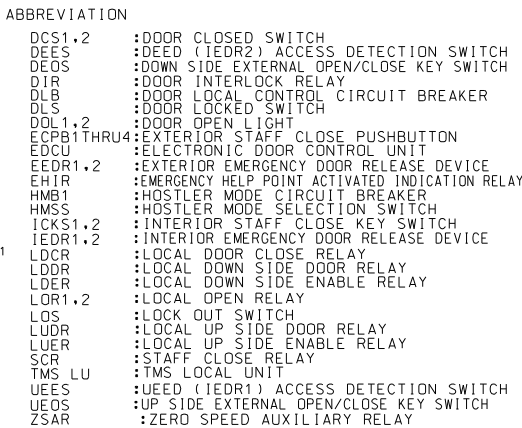
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DESIGNED BY
NIL
DRAWN BY
SRD
CHECKED BY
K.Y.CHEUNG
IN CHARGE
C.C.HON
DATE
26JAN2007

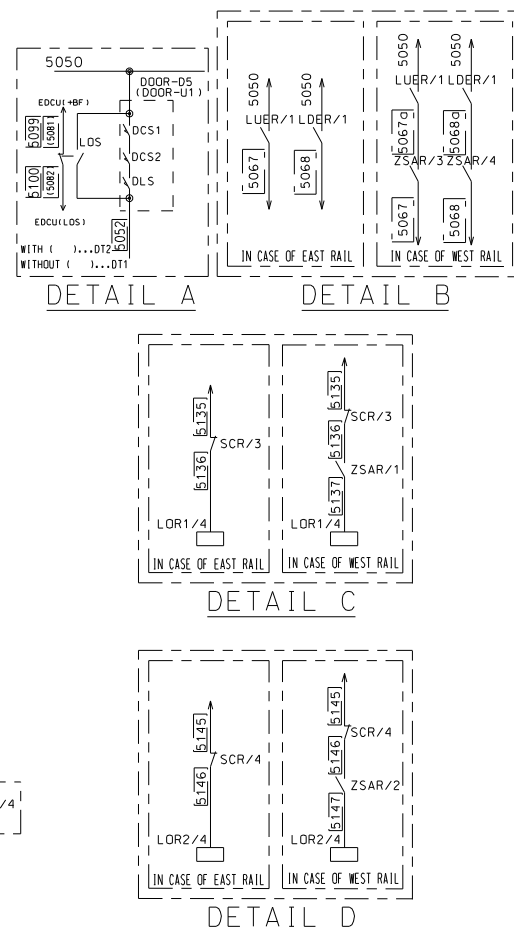


TITLE	SP1900 ELECTRIC MULTIPLE UNITS ELECTRICAL SCHEMATIC DOOR CONTROL CIRCUIT PM1, M CAR
-------	--

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```
EDCU CODING ON RS485 (P4 CONNECTOR)
EDCU1: shunt between NU1(p/n: 2) and strap1(p/n:1), w/n: DU11
EDCU2: shunt between NU2(p/n: 3) and strap1(p/n:1), w/n: DU2
      shunt between NU3(p/n: 4) and strap2(p/n:6), w/n: DU22
EDCU3: shunt between NU2(p/n: 3) and strap1(p/n:1), w/n: DU31
      shunt between NU4(p/n: 7) and strap2(p/n:6), w/n: DU32
EDCU4: shunt between NU2(p/n: 3) and strap1(p/n:1), w/n: DU41
EDCU5: shunt between NU3(p/n: 4) and strap1(p/n:1), w/n: DU51
      shunt between NU4(p/n: 7) and strap2(p/n:6), w/n: DU52
TERMINATING CONNECTION ON RS485 (P5 CONNECTOR)
EDCU5: shunt between RDV11(p/n: 2) and RTV11(p/n:7), w/n: DU61
```



NOTE.

1. WIRE NUMBERS ENCLOSED BY , INDICATE THAT YELLOW WIRE IS USED.
2. IN CASE OF EAST RAIL, WIRES MARKED WITH "＊" ARE NOT CONNECTED TO UEOS, DEOS.

KCRC WR	MHW	A	*	B901
KCRC ER	TWH	A	*	B901
APPLIED CAR	CAR TYPE	GROUP	PCS/CAR	KS DMC. GROUP No.

[illegible]

DESIGNED BY	NIL
DRAWN BY	SRD
CHECKED BY	K. Y. CHEUNG
IN CHARGE	C. C. HON
DATE	26JAN2007

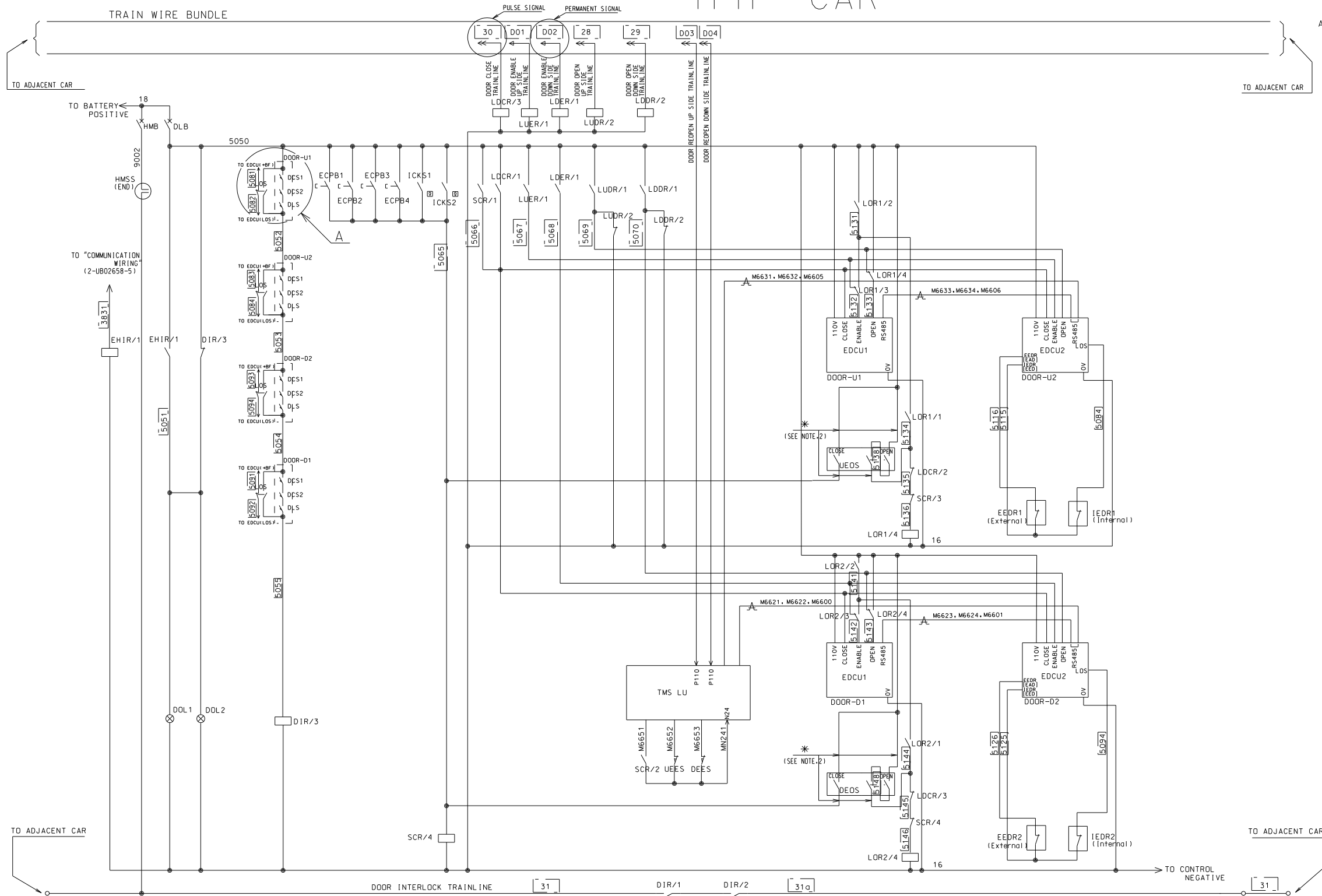


TITLE
SP1900 ELECTRIC MULTIPLE UNITS ELECTRICAL SCHEMATIC DOOR CONTROL CIRCUIT MHW, TWH CAR

SCALE			
NTS @ A1			
ORIGINATOR KS	ORIGINATOR REFERENCE 1-UB02661		ORIG REF REV K
DRAWING NUMBER SP1900AB/XB/RR/M5012			REV 0
RAILWAY ER	LOCATION HTL	STAGE Z	SHEET NO 1

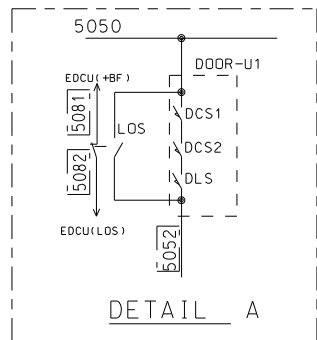
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TFH CAR

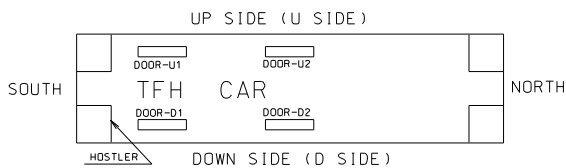


- ABBREVIATION
- DCS1,2 : DOOR CLOSED SWITCH
 - DEES : DEED (IEDR2) ACCESS DETECTION SWITCH
 - DEOS : DOWN SIDE EXTERNAL OPEN/CLOSE KEY SWITCH
 - DIR : DOOR INTERLOCK RELAY
 - DLB : DOOR LOCAL CONTROL CIRCUIT BREAKER
 - DLS : DOOR LOCKED SWITCH
 - DOL1,2 : DOOR OPEN LIGHT
 - ECPB1-4 : EXTERIOR STAFF CLOSE PUSHBUTTON
 - EDCU : ELECTRONIC DOOR CONTROL UNIT
 - EEDR1,2 : EXTERIOR EMERGENCY DOOR RELEASE DEVICE
 - EHIR : EMERGENCY HELP POINT ACTIVATED INDICATION RELAY
 - HMB1 : HOSTLER MODE CIRCUIT BREAKER
 - HMSS : HOSTLER MODE SELECTION SWITCH
 - ICKS1,2 : INTERIOR STAFF CLOSE KEY SWITCH
 - IEDR1,2 : INTERIOR EMERGENCY DOOR RELEASE DEVICE
 - LDCR : LOCAL DOWN SIDE DOOR RELAY
 - LDDR : LOCAL DOWN SIDE DOOR RELAY
 - LDER : LOCAL DOWN SIDE ENABLE RELAY
 - LOR1,2 : LOCAL OPEN RELAY
 - LOS : LOCK OUT SWITCH
 - LUDR : LOCAL UP SIDE DOOR RELAY
 - LUER : LOCAL UP SIDE ENABLE RELAY
 - SCR : STAFF CLOSE RELAY
 - TMS LU : TMS LOCAL UNIT
 - UEES : UEED (IEDR1) ACCESS DETECTION SWITCH
 - UEOS : UP SIDE EXTERNAL OPEN/CLOSE KEY SWITCH

EDCU CODING ON RS485 (P4 CONNECTOR)
EDCU1: shunt between NU1(p/n: 2) and strap1(p/n:1), w/n: DU11
EDCU2: shunt between NU2(p/n: 3) and strap1(p/n:1), w/n: DU21
shunt between NU3(p/n: 4) and strap2(p/n:6), w/n: DU22
TERMINATING CONNECTION ON RS485 (P5 CONNECTOR)
EDCU1: shunt between RDV11(p/n: 2) and RTV11(p/n:7), w/n: DU61



NOTE.
1. WIRE NUMBERS ENCLOSED BY [], INDICATE THAT YELLOW WIRE IS USED.
2. IN CASE OF EAST RAIL, WIRES MARKED WITH "*" ARE NOT CONNECTED TO UEOS, DEOS.



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PRINTED BY: SUSERS\$
FILENAME: \$FILES\$

REV	DATE	BY	SUB	APP	DESCRIPTION	REV	DATE	BY	SUB	APP	DESCRIPTION
1	26JAN07	SRD	K.Y.	C.C.	FIRST ISSUE						

DESIGNED BY
NIL
DRAWN BY
SRD
CHECKED BY
K.Y. CHEUNG
IN CHARGE
C.C. HON
DATE
26JAN2007



TITLE
SP1900 ELECTRIC MULTIPLE UNITS
ELECTRICAL SCHEMATIC
DOOR CONTROL CIRCUIT
TFH CAR

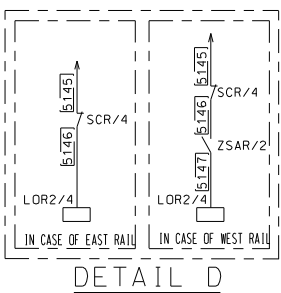
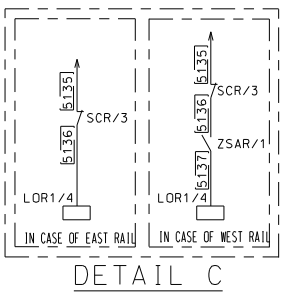
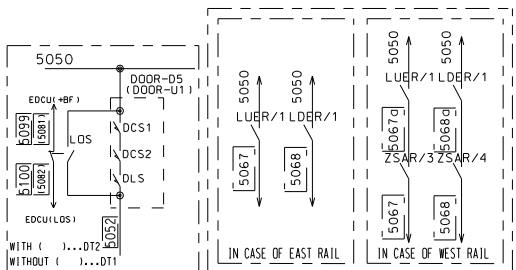
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KCRC	ER	TFH	A	* B901
ORIGINATOR	ORIGINATOR REFERENCE	ORG REF REV		
KS	1-UB02663	i		
DRAWING NUMBER		REV		
SP1900AB/XB/RR/M5014		0		
RAILWAY	LOCATION	STAGE	SHEET NO	
ER	HTL	Z	1	

PM2 , MW2 CAR

- ABBREVIATION
- DCS1,2 : DOOR CLOSED SWITCH
 - DEES : DEED (IEDR2) ACCESS DETECTION SWITCH
 - DEOS : DOWN SIDE EXTERNAL OPEN/CLOSE KEY SWITCH
 - DIR : DOOR INTERLOCK RELAY
 - DLS : DOOR LOCAL CONTROL CIRCUIT BREAKER
 - DLS2 : DOOR LOCKED SWITCH
 - DOL1,2 : DOOR OPEN LIGHT
 - ECPB1THRU4 : EXTERIOR STAFF CLOSE PUSHBUTTON
 - EDCU : ELECTRONIC DOOR CONTROL UNIT
 - IEDR1,2 : EXTERIOR EMERGENCY DOOR RELEASE DEVICE
 - IEDR2 : EMERGENCY HELP POINT ACTIVATED INDICATION RELAY
 - ICKS1,2 : INTERIOR STAFF CLOSE KEY SWITCH
 - IEDR1,2 : INTERIOR EMERGENCY DOOR RELEASE DEVICE
 - LDCR : LOCAL DOOR CLOSE RELAY
 - LDDR : LOCAL DOWN SIDE DOOR RELAY
 - LDER : LOCAL DOWN SIDE ENABLE RELAY
 - LOR1,2 : LOCAL OPEN RELAY
 - LOS : LOCK OUT SWITCH
 - LUR : LOCAL UP SIDE DOOR RELAY
 - LUR : LOCAL UP SIDE ENABLE RELAY
 - SCR : STAFF CLOSE RELAY
 - TMS LU : TMS LOCAL UNIT
 - UEES : UEED (IEDR1) ACCESS DETECTION SWITCH
 - UEOS : UP SIDE EXTERNAL OPEN/CLOSE KEY SWITCH
 - ZSAR : ZERO SPEED AUXILIARY RELAY

EDCU CODING ON RS485 (P4 CONNECTOR)

EDCU1: shunt between NU1(p/n: 2) and strap1(p/n:1), w/n: DU11
EDCU2: shunt between NU2(p/n: 3) and strap1(p/n:1), w/n: DU21
EDCU3: shunt between NU3(p/n: 4) and strap2(p/n:6), w/n: DU22
EDCU4: shunt between NU4(p/n: 7) and strap1(p/n:1), w/n: DU31
EDCU5: shunt between NU2(p/n: 3) and strap2(p/n:6), w/n: DU32
EDCU4: shunt between NU2(p/n: 3) and strap1(p/n:1), w/n: DU41
EDCU5: shunt between NU3(p/n: 4) and strap1(p/n:1), w/n: DU51
EDCU1: shunt between NU4(p/n: 7) and strap2(p/n:6), w/n: DU52
TERMINATING CONNECTION ON RS485 (P5 CONNECTOR)
EDCU1: shunt between RDV1(p/n: 2) and RTV1(p/n:7), w/n: DU61



- NOTE.
- WIRE NUMBERS ENCLOSED BY [], INDICATE THAT YELLOW WIRE IS USED.
 - IN CASE OF EAST RAIL, WIRES MARKED WITH "*" ARE NOT CONNECTED TO UEOS, DEOS.

KCRC	WR	PM2	A	*	B901
KCRC	WR	MW2	A	*	B901
KCRC	ER	PM2	A	*	B901
KCRC	ER	MW2	A	*	B901
APPLIED CAR	CAR TYPE	GROUP	PCS/CAR	KS DWG. GROUP NO.	

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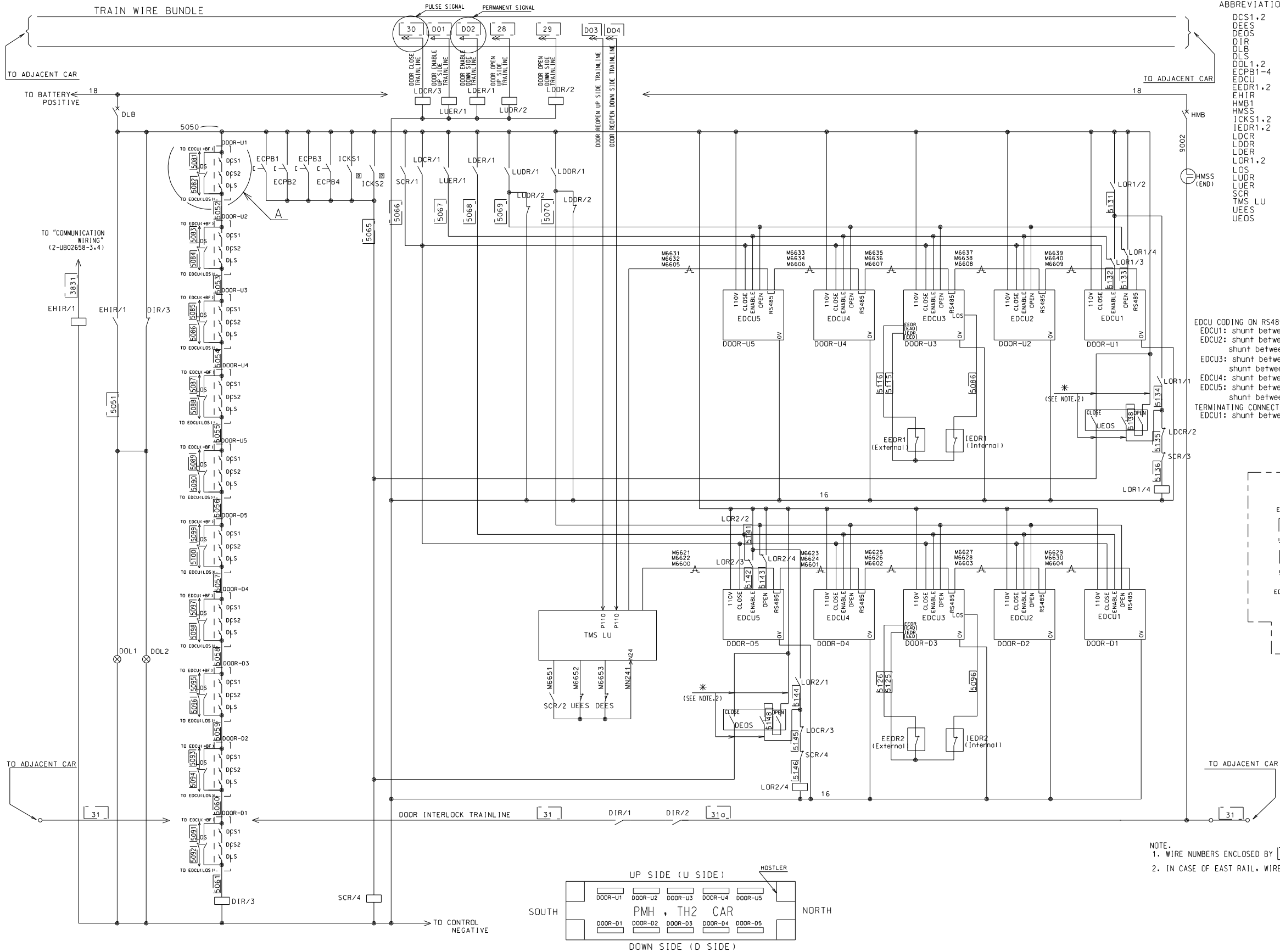


TITLE

SP1900 ELECTRIC MULTIPLE UNITS
ELECTRICAL SCHEMATIC
DOOR CONTROL CIRCUIT
PM2, MW2 CAR

SCALE		NTS @ A1	
ORIGINATOR KS	ORIGINATOR REFERENCE 1-UB03757	ORG REF REV d	
DRAWING NUMBER SP1900AB/XB/RR/M5015		REV 0	
RAILWAY ER	LOCATION HTL	STAGE Z	SHEET NO 1

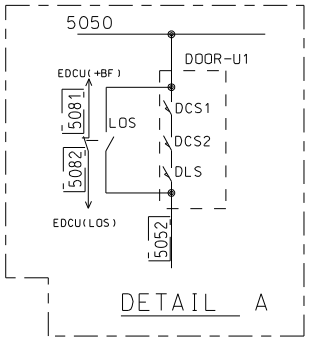
PMH , TH2 CAR



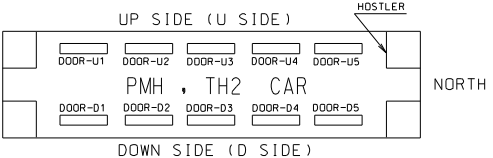
- ABBREVIATION
- DCS1,2 : DOOR CLOSED SWITCH
 - DEES : DEED (IEDR2) ACCESS DETECTION SWITCH
 - DEOS : DOWN SIDE EXTERNAL OPEN/CLOSE KEY SWITCH
 - DIR : DOOR INTERLOCK RELAY
 - DLB : DOOR LOCAL CONTROL CIRCUIT BREAKER
 - DLS : DOOR LOCKED SWITCH
 - DOL : DOOR OPEN LIGHT
 - ECPB1,2 : EXTERIOR STAFF CLOSE PUSHBUTTON
 - EDCU : ELECTRONIC DOOR CONTROL UNIT
 - EEDR1,2 : EXTERIOR EMERGENCY DOOR RELEASE DEVICE
 - EHIR : EMERGENCY HELP POINT ACTIVATED INDICATION RELAY
 - HMB1 : HOSTLER MODE CIRCUIT BREAKER
 - HMS : HOSTLER MODE SELECTION SWITCH
 - ICKS1,2 : INTERIOR STAFF CLOSE KEY SWITCH
 - IEDR1,2 : INTERIOR EMERGENCY DOOR RELEASE DEVICE
 - LDCR : LOCAL DOOR CLOSE RELAY
 - LDDR : LOCAL DOWN SIDE DOOR RELAY
 - LDER : LOCAL DOWN SIDE ENABLE RELAY
 - LOR1,2 : LOCAL OPEN RELAY
 - LOS : LOCK OUT SWITCH
 - LUDR : LOCAL UP SIDE DOOR RELAY
 - LUER : LOCAL UP SIDE ENABLE RELAY
 - SCR : STAFF CLOSE RELAY
 - TMS LU : TMS LOCAL UNIT
 - UEDR : UEDD (IEDR1) ACCESS DETECTION SWITCH
 - UEOS : UP SIDE EXTERNAL OPEN/CLOSE KEY SWITCH

EDCU CODING ON RS485 (P4 CONNECTOR)

EDCU1: shunt between NU1(p/n: 2) and strap1(p/n:1), w/n: DU11
EDCU2: shunt between NU2(p/n: 3) and strap1(p/n:1), w/n: DU21
shunt between NU3(p/n: 4) and strap2(p/n:6), w/n: DU22
EDCU3: shunt between NU2(p/n: 3) and strap1(p/n:1), w/n: DU31
shunt between NU4(p/n: 7) and strap2(p/n:6), w/n: DU32
EDCU4: shunt between NU2(p/n: 3) and strap1(p/n:1), w/n: DU41
EDCU5: shunt between NU3(p/n: 4) and strap1(p/n:1), w/n: DU51
shunt between NU4(p/n: 7) and strap2(p/n:6), w/n: DU52
TERMINATING CONNECTION ON RS485 (P5 CONNECTOR)
EDCU1: shunt between RDV11(p/n: 2) and RTV11(p/n:7), w/n: DU61



- NOTE.
1. WIRE NUMBERS ENCLOSED BY [], INDICATE THAT YELLOW WIRE IS USED.
 2. IN CASE OF EAST RAIL, WIRES MARKED WITH "*" ARE NOT CONNECTED TO UEOS, DEOS.



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DESIGNED BY
DRAWN BY
CHECKED BY
IN CHARGE
DATE

DESIGNED BY
DRAWN BY
CHECKED BY
IN CHARGE
DATE



TITLE
SP1900 ELECTRIC MULTIPLE UNITS
ELECTRICAL SCHEMATIC
DOOR CONTROL CIRCUIT
PMH, TH2 CAR

KCRC ER TH2	A	*	B901
KCRC ER PMH	A	*	B901
APPLIED CAR	CAR TYPE	GROUP	PCS/CAR
KS DMC	GROUP	NO.	
ORIGINATOR	ORIGINATOR REFERENCE	ORIG REF	REV
KS	1-UB03758	d	
DRAWING NUMBER			
SP1900AB/XB/RR/M5016			0
RAILWAY	LOCATION	STAGE	SHEET NO
ER	HTL	Z	1

FULL SIZE A1

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NOTE.

1. WIRE NUMBERS ENCLOSED BY , INDICATE THAT YELLOW WIRE IS USED.
2. MODIFIED DOOR CONTROL CIRCUITS FOR ER-ATO ARE SHOWN AT DRG NO. UB04280-1²-3.
REGARDING NO CHANGED DOOR CONTROL CIRCUIT, THE SAME DRAWING THAT ARE
DRG NO. UB02659-2,3,6 ARE ADAPTED.

SCALE		NTS @ A1	
ORIGINATOR KS	ORIGINATOR REFERENCE 1-UB04280-01	ORG REF REV FIELD	
DRAWING NUMBER SP1900AB/XB/RR/M5017		REV 0	
RAILWAY ER	LOCATION HTL	STAGE Z	SHEET NO 1

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$USRF$
PLOT DRV:$PLTDRVL$
PRINTED BY:$USER$
$DATE$ $TIME$
FILENAME:$FILE$
```

[illegible]

DESIGNED BY
NIL
DRAWN BY
SRD
CHECKED BY
K.Y.CHEUNG
IN CHARGE
C.C.HON
DATE
26JAN2007

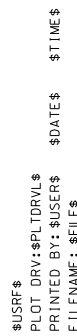


TITLE	SP1900 ELECTRIC MULTIPLE UNITS ELECTRICAL SCHEMATIC DOOR CONTROL CIRCUIT (1/3) DT1, DT2 CAR (ER ONLY)
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NOTE.

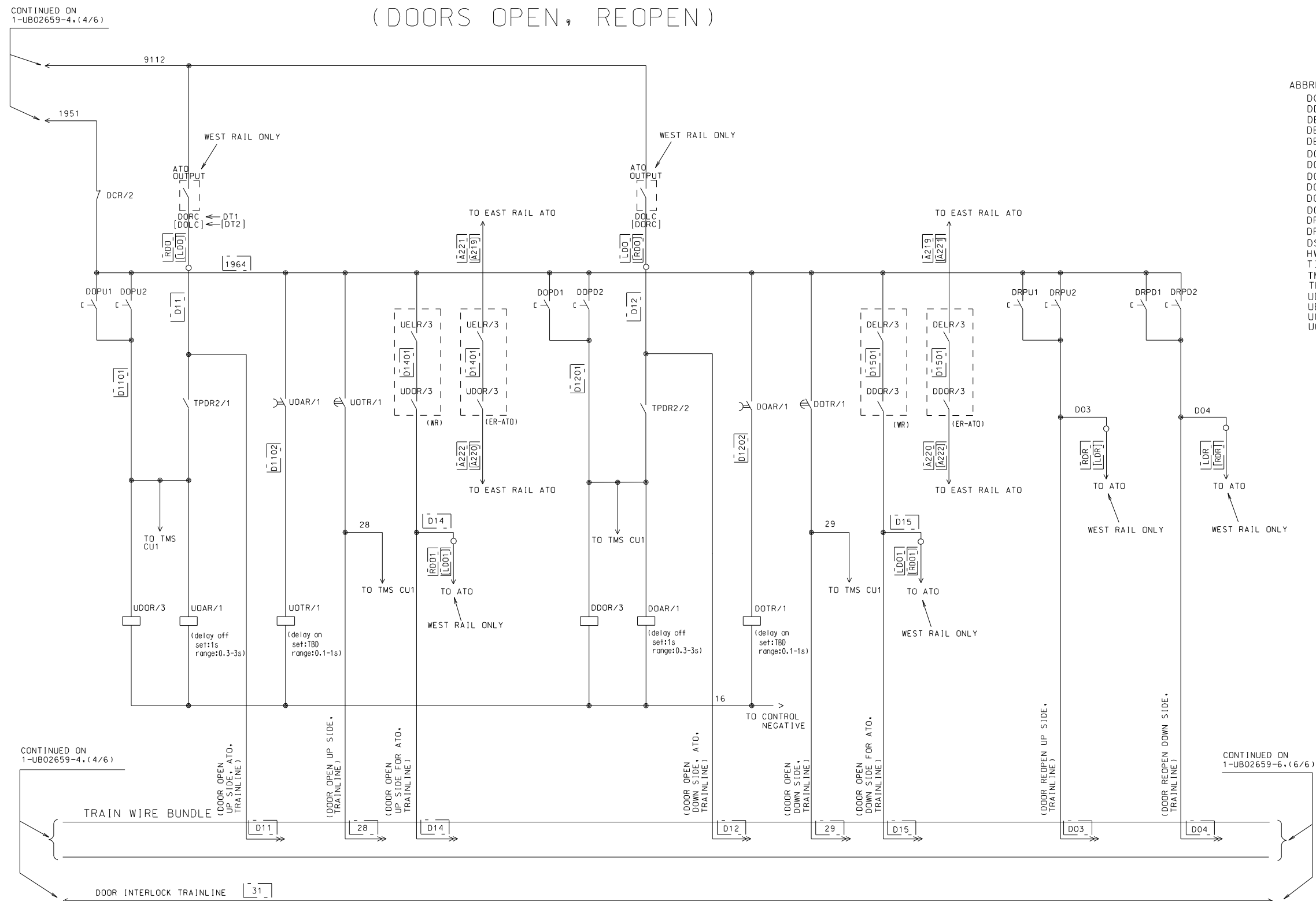
1. WIRE NUMBERS ENCLOSED BY , INDICATE THAT YELLOW WIRE IS USED.
2. MODIFIED DOOR CONTROL CIRCUITS FOR ER-ATO ARE SHOWN AT DRG NO. UBO4280-1'3.
REGARDING NO CHANGED DOOR CONTROL CIRCUIT, THE SAME DRGNG THAT ARE
DRG NO. UBO2659-2,3,6 ARE ADAPTED.



DESIGNED BY NIL	 KCR 九廣鐵路	運輸部 Transport Division
DRAWN BY SRD		
CHECKED BY K. Y. CHEUNG		
IN CHARGE C. C. HON		
DATE 26 JAN 2007		

FULL SIZE A1

DT1 , DT2 CAR
(DOORS OPEN , REOPEN)



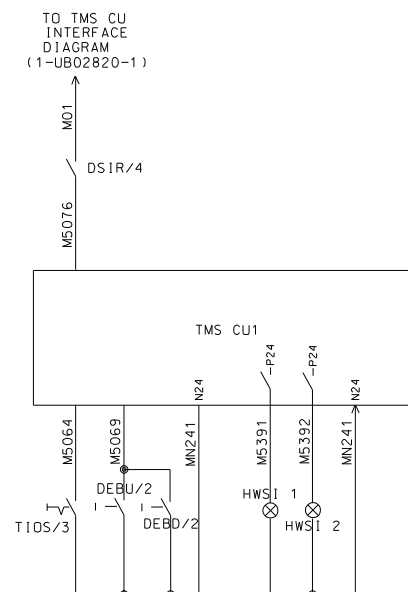
ABBREVIATION

```

DCR      :DOOR CLOSE RELAY
DDOR     :DOWN SIDE DOOR OPEN RELAY
DELR     :DOWN SIDE DOOR ENABLE LATCHING RELAY
DEBD     :DOOR ENABLE BYPASS SWITCH (DOWN SIDE)
DEBU     :DOOR ENABLE BYPASS SWITCH (UP SIDE)
DOAR     :DOWN SIDE DOOR OPEN AUXILIARY TIMER RELAY
DOLC     :DOOR OPEN LEFT SIDE COMMAND, ATO CONTACT
DORC     :DOOR OPEN RIGHT SIDE COMMAND, ATO CONTACT
DOPD1,2  :DOOR OPEN PUSHBUTTON (DOWN SIDE)
DOPU1,2  :DOOR OPEN PUSHBUTTON (UP SIDE)
DOTR     :DOWN SIDE DOOR OPEN TIMER RELAY
DRPD1,2  :DOOR REOPEN PUSHBUTTON (DOWN SIDE)
DRPU1,2  :DOOR REOPEN PUSHBUTTON (UP SIDE)
DSIR     :DOOR SAFETY INTERLOCK RELAY
HWSI 1,2 :HEAD WALL END SELECTION INDICATOR
TIOS     :TRACTION INTERLOCK OVERRIDE SWITCH
TMS CU   :TMS CENTRAL UNIT
TPDR     :TRAIN PREPARATION DOOR RELAY
UDOR     :UP SIDE DOOR OPEN RELAY
UELRL    :UP SIDE DOOR ENABLE LATCHING RELAY
UOAR     :UP SIDE DOOR OPEN AUXILIARY TIMER RELAY
UOTR     :UP SIDE DOOR OPEN TIMER RELAY

```

(INTERFACE WITH TMS)



NOTE.

1. WIRE NUMBERS ENCLOSED BY [] , INDICATE THAT YELLOW WIRE IS USED.
2. REGARDING WIRE NUMBERS AND CONTACT NAMES OF ATO, WITHOUT [] INDICATE DT1 CAR, WITH [] INDICATE DT2 CAR.
3. MODIFIED DOOR CONTROL CIRCUITS FOR ER-ATO ARE SHOWN AT DRG NO. UB04280-1³. REGARDING NO CHANGED DOOR CONTROL CIRCUIT, THE SAME DRGNG THAT ARE DRG NO. UB02659-2,3,6 ARE ADAPTED.

KCRC	ER	DT2	A	*	B90
KCRC	ER	DT1	A	*	B90
APPLIED CAR	CAR TYPE	GROUP	PCS/CAR		KS DMC GROUP N

\$USRF\$
PLOT DRV:\$PLTDRL\$
PRINTED BY:\$USER\$ \$DATE\$ \$TIME\$
FILE NAME:\$FILE\$

[illegible]

DESIGNED BY
NIL
DRAWN BY
SRD
CHECKED BY
K.Y.CHEUNG
IN CHARGE
C.C.HON
DATE
26JAN2007



TITLE	SP1900 ELECTRIC MULTIPLE UNITS ELECTRICAL SCHEMATIC DOOR CONTROL CIRCUIT (3/3) DT1, DT2 CAR (ER ONLY)
-------	---

SCALE		NTS @ A1		GROUP NO.
ORIGINATOR KS	ORIGINATOR REFERENCE 1-UB04280-03		ORIG REF REVISION	
DRAWING NUMBER SP1900AB/XB/RR/M5019			REV 0	
RAILWAY ER	LOCATION HTL	STAGE Z	SHEET NO 1	