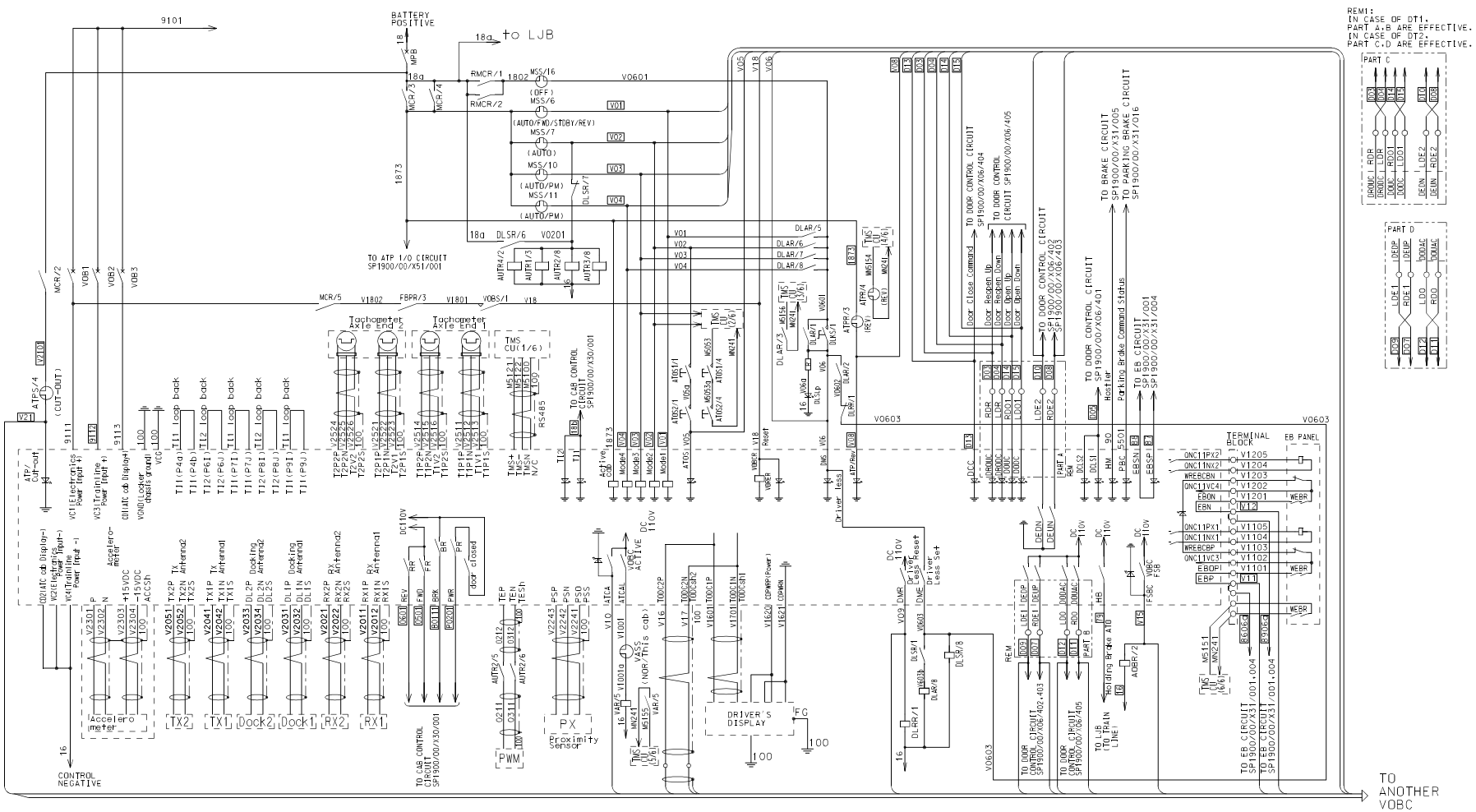

ATPS:ATP cut out Switch
AOBR:AtO Brake Relay
ATPR:ATP Reverse function
ATOS:ATO Start Switch
AUTR:AuTo mode Relay
DLAR:Driver Less mode Aux. Relay
DLKS:Driver Less mode Key Switch
DLRP:Driver Less mode Reset Relay
DLSLp:Driver LeSs mode Lamp

DLSR:Driver LeSs mode Relay
FBPR:Full service Brake Position Relay
MCR:Master Controller Relay
MPB:Master controller Power Breaker
MSS:Mode Selector Switch
RMCR:Rear cab Master Controller reverse Relay
VAR:Vobc Active Relay
VOB:VObc Breaker
VOBS:VOBc reset Switch
VASS:VOBc Active Selector Switch

REM2: ☐ SHOWS YELLOW CABLES.
REM3: THIS DRAWING IS BASED ON WEST RAIL SYSYTEM.
THE RELAYS, AUTR1/4, AUTR2/8, VAR/5 ARE USED IN ER-ATO SYSTEM.

KCRC ER	DT2	A	◆	B901
KCRC ER	DT1	A	◆	B901
APPLIED CAR	CAR TYPE	GROUP	KS/CAR	EL DWG. PART No.

REV	DESCRIPTION	BY	DATE	APPROVED
D	ZML10659 MODIFICATION ON VOBC INTERFACE CIRCUIT OF SP1900 & SP1950 TRAINS	LIU HM	16DEC13	F NAGI
C	ZML10060 WRL SP1900 & MOL SP1950 AUTR2 REDUNDANCY CIRCUIT	LIU HM	10DEC13	F NAGI
B	REDRAWN TO STANDARDISED TITLE BLOCK	H CHAN	14JAN13	L WONG
A	FIRST ISSUE	SRD	26JAN07	C.C.

DRAWN	
DESIGNED	---
CHECKED	R LEUNG
APPROVED	L WONG
DATE	21JAN13

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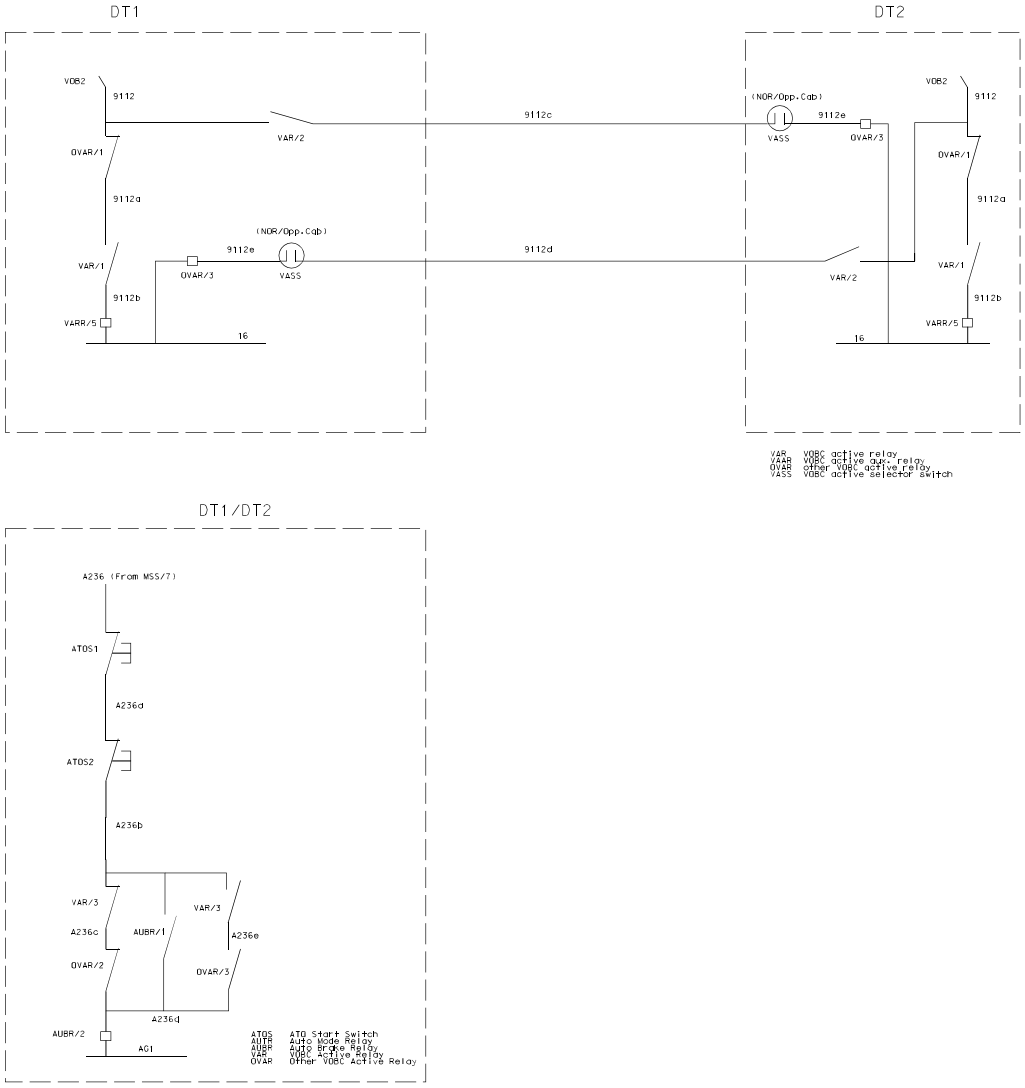
CONTRACTOR REFERENCE NO. 2P705042-5700
KCRC REFERENCE NO. SP1900AB/XM/RR/H5002
CADD REF. OD4_372_100366_0003_D.DGN

TITLE
SP1900 ELECTRIC MULTIPLE UNITS
ELECTRICAL SCHEMATIC
VOBC I/O CIRCUIT

SCALE NTS
DRAWING NO. OD4/372/100366/0003
REV. D



REV	DESCRIPTION	BY	DATE	APPROVED
A	ZML10659 MODIFICATION ON VOBC INTERFACE CIRCUIT OF SP1900 & SP1950 TRAINS	LIU HM	16DEC13	F NAGI

DRAWN	LIU HM
DESIGNED	
CHECKED	
APPROVED	FRANKIE NAGI
DATE	16DEC13

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CONTRACTOR REFERENCE NO.

KCRC REFERENCE NO.

CADD REF. OD4_372_100566_0001_A.dgn

TITLE

ELECTRICAL SCHEMATIC
VOBC INTERFACE CONTROL CIRCUIT

SCALE NTS

DRAWING NO. OD4/372/100566/0001

REV. A