





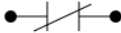
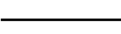
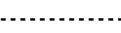






Smartrise Engineering Index

200610-003, NAV CANADA CAR 5, 07-08-2020

Device Lookup	
Device:	Location in drawings:
Battery Power	[2.15], [3.6]
Buffer Switch	[7.3]
Cabinet Light	[3.11]
Car Arrival Lantern	[9.90]
Car Call Buttons	[9.5]
Car Call Lamps	[9.4]
Car Call Security	[9.6]
Car Door Controls	[9.9]
Car Safeties	[7.4]
Car Top Inspection	[8.1], [10.4]
CN Network	[2.2], [7.1], [7.2], [8.5]
DC Power Supply	[3.2]
Enclosure Cooling	[3.9]
Final Limits	[7.3]
Fire Service (COP)	[9.7]
Fire Smoke Detectors	[2.7]
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In Car Inspection	[9.10], [9.80]
In Car Stop	[9.10]
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Pit Switch	[7.3]
Position Indicator (Car)	[10.1]
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Safety Relays	[2.3], [7.6]
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Soft Starter and Motor	[2.9], [4.1]
Telephone	[3.3], [7.1], [7.2], [10.2]
Transformer	[3.1]
Valves	[2.9], [4.2]

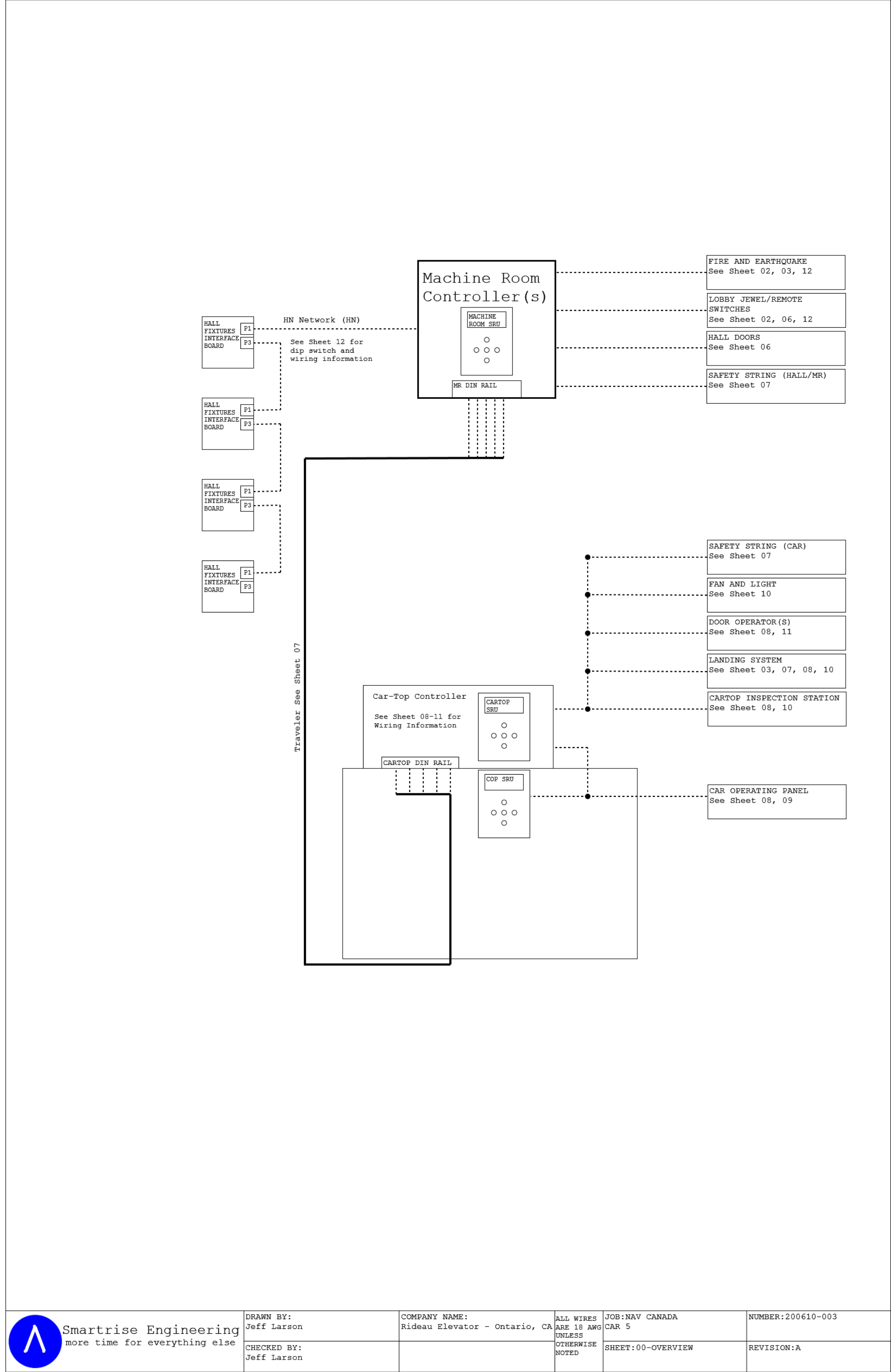
Sheet #	Description
0	Overview Page
1	Getting Started/ Construction
2	Machine Room I/O and Direct Connections
3	Machine Room Power
4	Motor and Drive
5	Brakes / Hydro Options
6	Hall and Hoistway Connections
7	Traveler and Safety String
8	CT Board IO and Direct Connections
9	COP Board IO and Direct Connections
10	Car Device Connections
11	Door Operator(s)
12	Hall Network Addressing and Configuration
13	Group Connections w/ Hall

Symbol:	Description:
	Coil
	Lamp
	Audible Device: (e.g. Buzzer/Chime)
	Toggle Switch
	Normally Open Push Button
	Contact: Normally Open (N.O.)
	Contact: Normally Closed (N.C.)
	Factory Connected Wire
	Field Connected Wire
	Terminal Block
	Recommended Terminal Block
	Off Page Connection
	Hoistway Bundle Connection (wire 14 shown)
MR [5xx] or [6xx]	Machine Room Board (MR Board)
CT [5xx] or [6xx]	Car Board 1 (Car-Top Board)
COP [5xx] or [6xx]	Car Board 2 (COP Board)
EXP [5xx] or [6xx]	Expansion SRU (EXP)
(device name)	Device Connection (e.g. "drive")
(r.coil) or (r.cont) (c.coil) or (c.cont)	Relay or Contactor Coil or Contact
Building	Building Connection

Notes:	Examples:
Distant connections are reference made to a connection that is shown on another page. The distant connection reference the sheet and section where the connection is made.	<div><div>EQRST</div><div></div><div>3.4</div></div> <p>EQRST is a switch where the connections are continued on Sheet 3, section 4, shown as:</p> <div><div>3.4</div></div>
	<div><div>DCL-R</div><div></div><div>8.3</div></div> <p>DCL-R is a field connection that's continued on sheet 8, section 3, shown as:</p> <div><div>8.3</div></div>
Contactors or Relay coils/contacts that are shown in a different section that the corresponding coil/contacts have a reference to the sheet and section where the coil/contacts are located.	<div><div>The M Contactor has more connections that are shown on sheet 7, section 6, Shown as:</div><div>7.6</div><div><div>M</div><div>CONTACTOR</div><div><div>L3</div><div>T3</div></div><div><div>L2</div><div>T2</div></div><div><div>L1</div><div>T1</div></div><div>7.6</div></div></div>

Traveler Cable Details: Minimum conductor counts (no Spares)	
Traveler, 14 awg	3
Traveler, 18 awg	14
Traveler, Shielded Pairs	2

Hoistway Cable Details: Minimum conductor counts (no Spares)	
Hoistway, 18 awg	17
Hoistway, Cat-5 Package	1



Smartrise Engineering  
more time for everything else

DRAWN BY:  
Jeff Larson

CHECKED BY:  
Jeff Larson

COMPANY NAME:  
Rideau Elevator - Ontario, CA

ALL WIRES  
ARE 18 AWG  
UNLESS  
OTHERWISE  
NOTED

JOB:NAV CANADA  
CAR 5

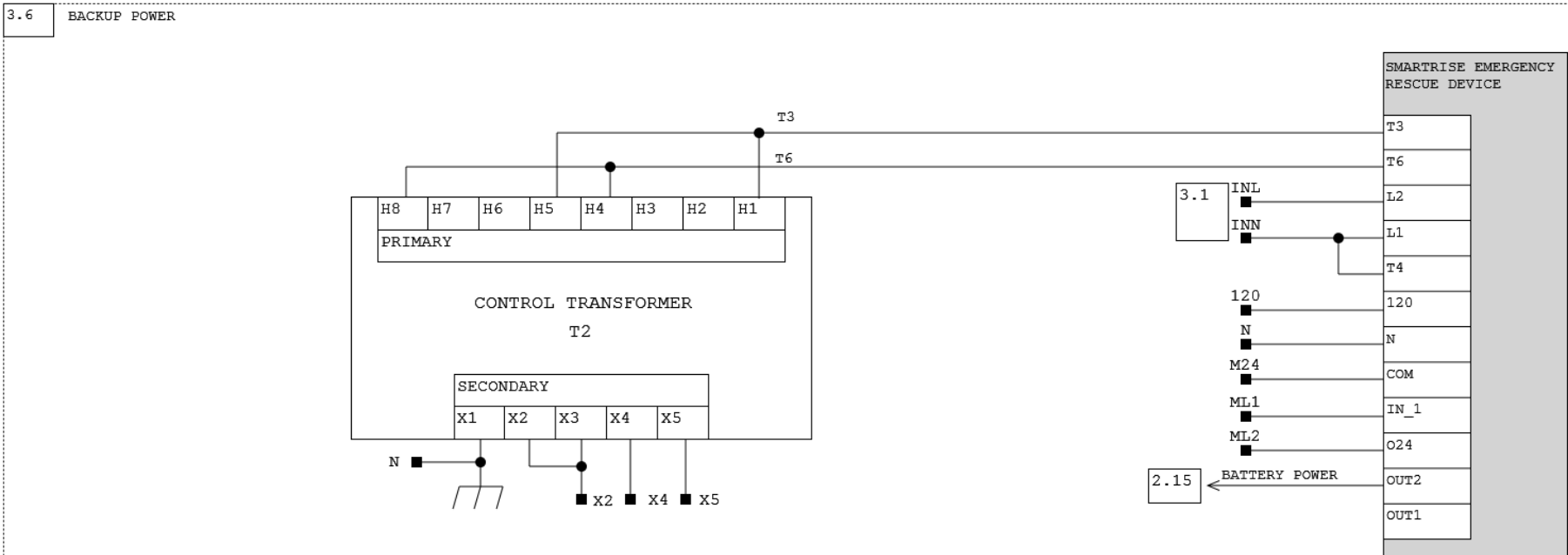
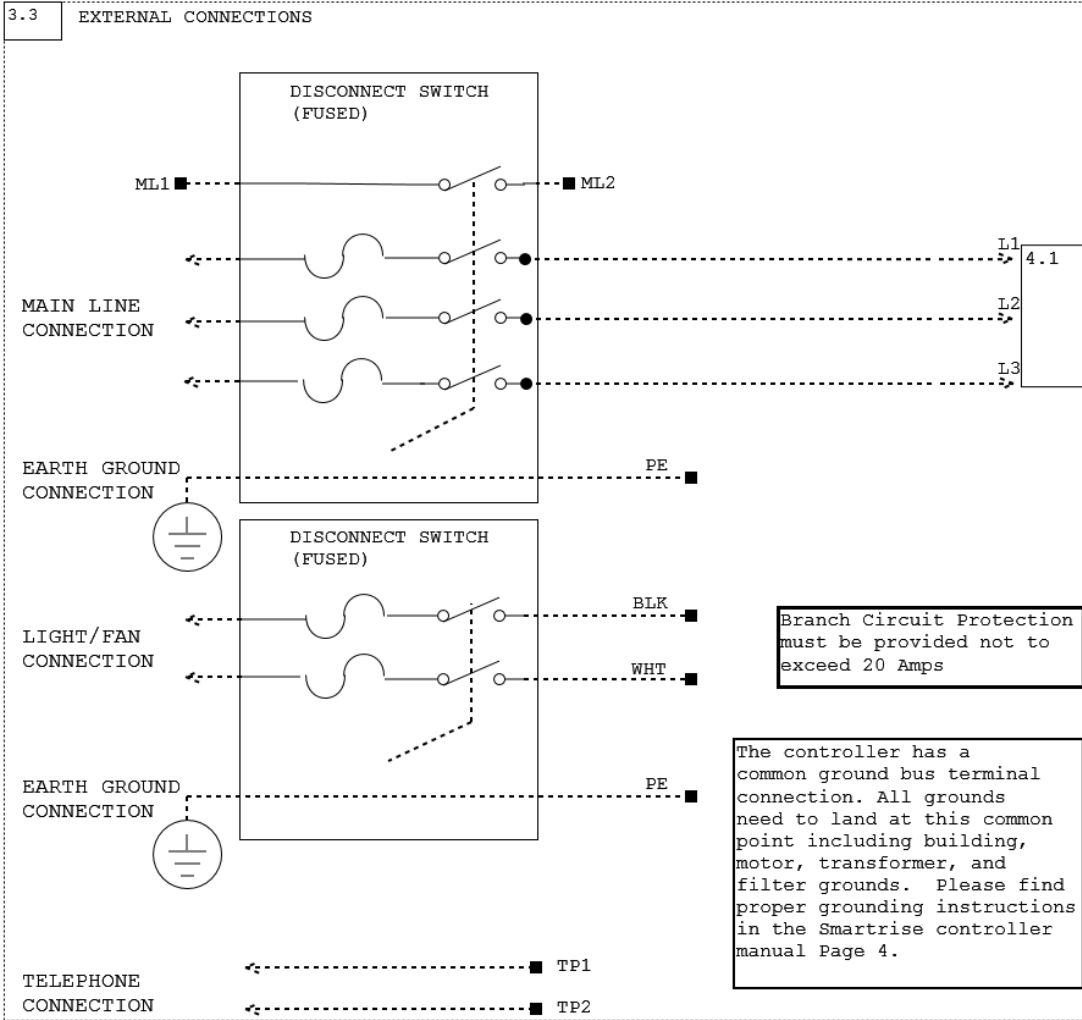
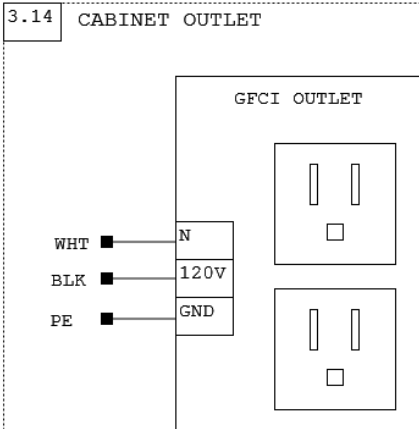
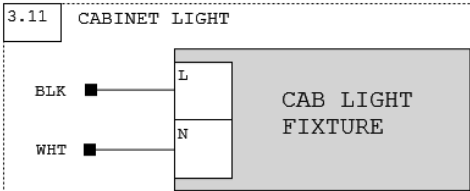
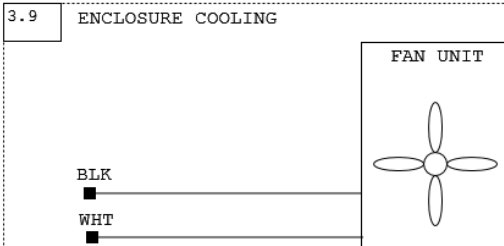
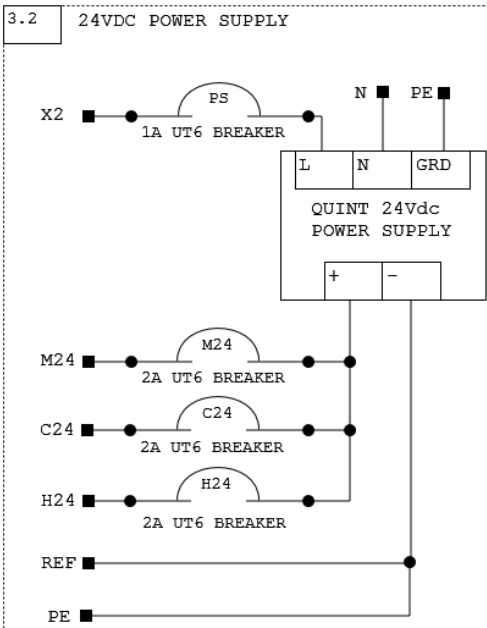
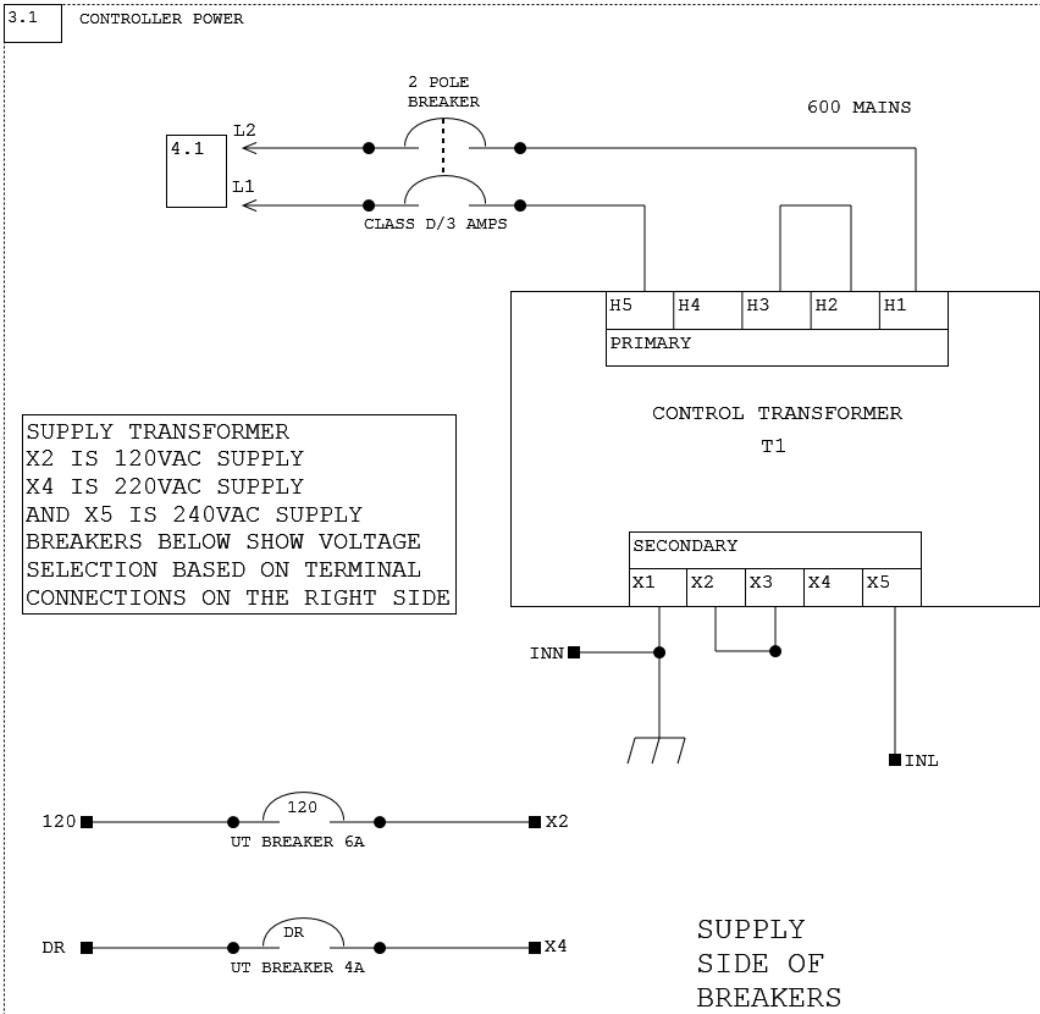
SHEET:00-OVERVIEW

NUMBER:200610-003

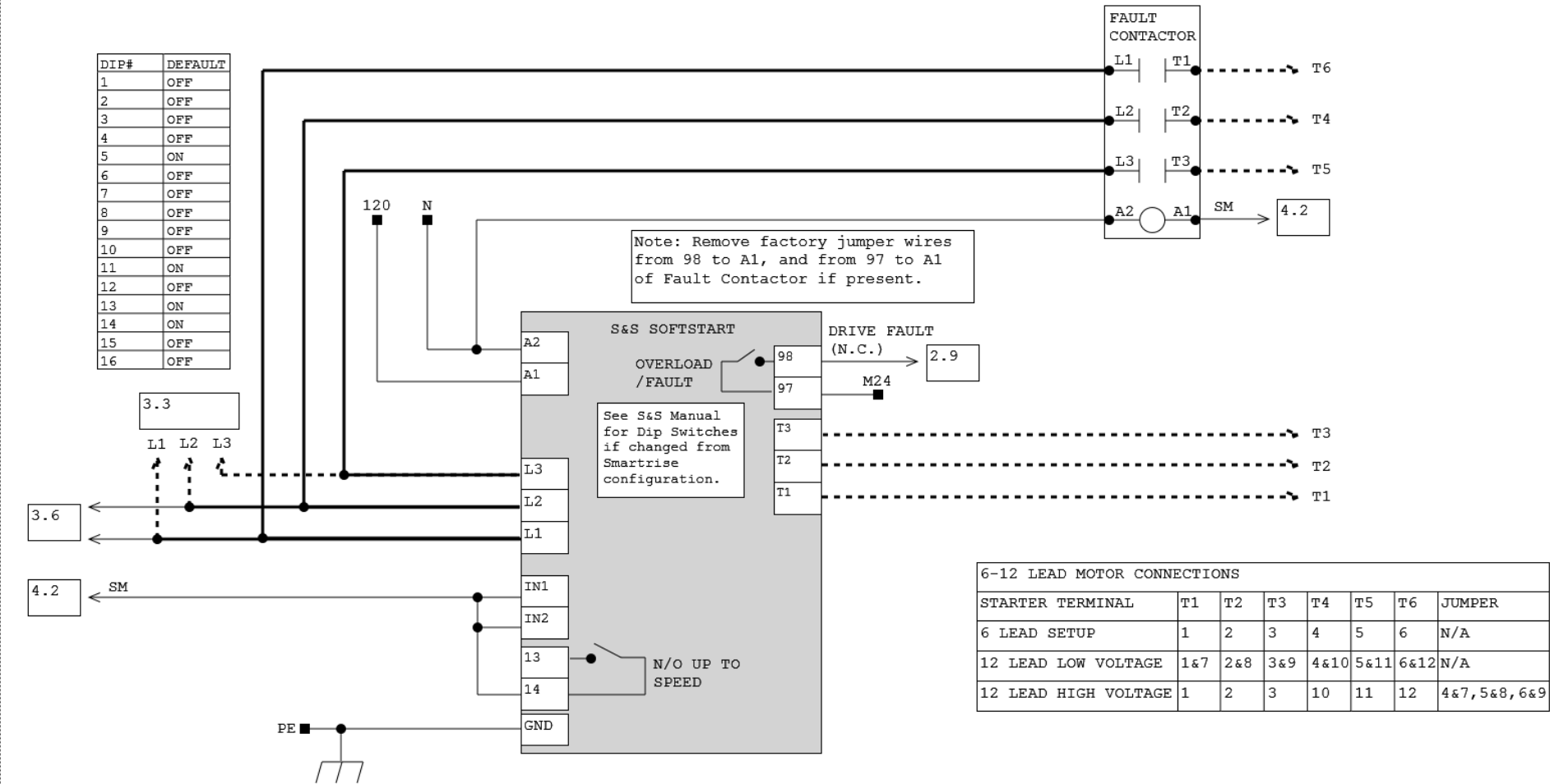
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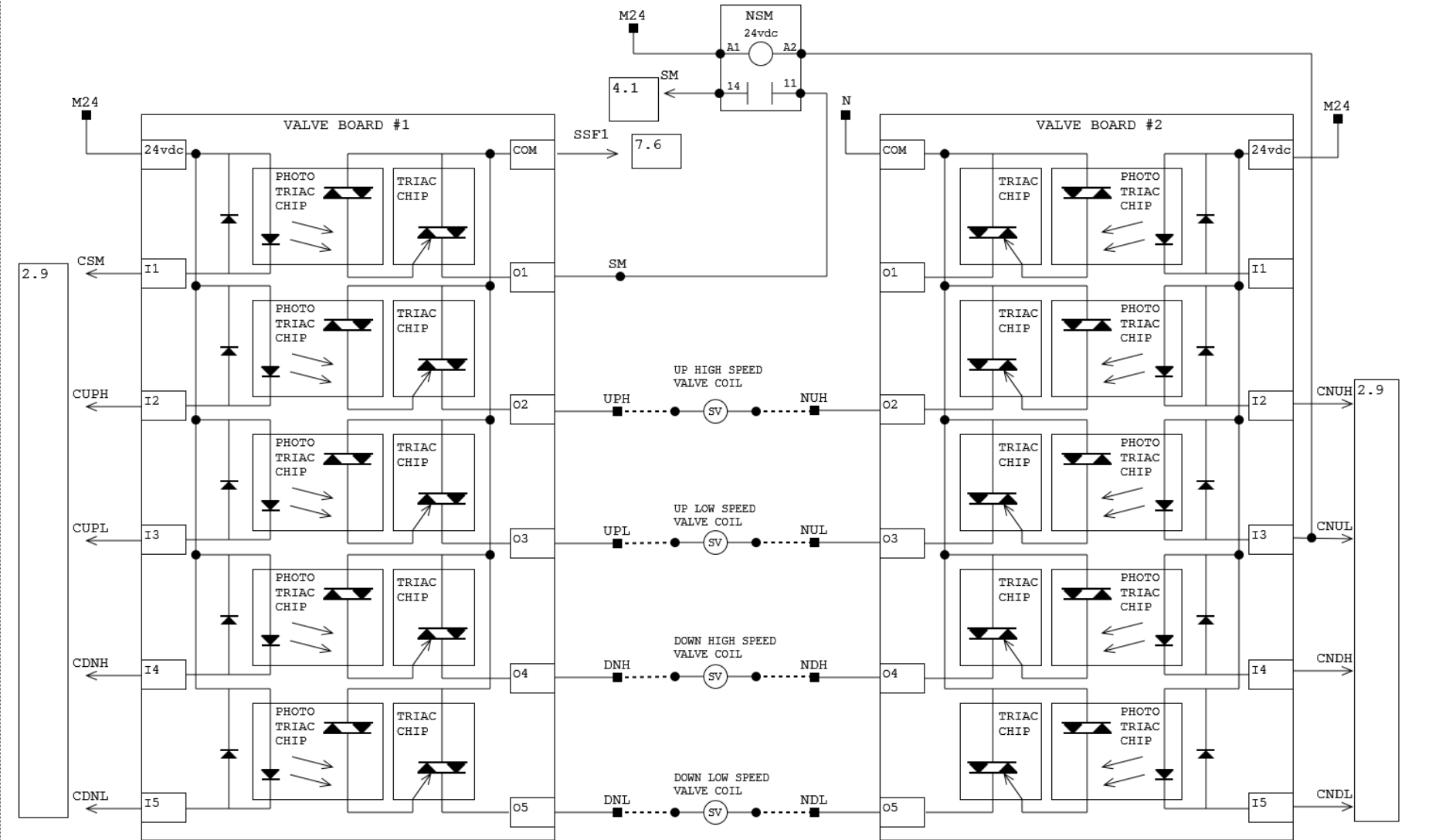




4.1 DRIVE AND MOTOR



4.2 Valve Relays



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more time for everything else

DRAWN BY:  
Jeff Larson

CHECKED BY:  
Jeff Larson

COMPANY NAME:  
Rideau Elevator - Ontario, CA

ALL WIRES  
ARE 18 AWG  
UNLESS  
OTHERWISE  
NOTED

JOB:NAV CANADA  
CAR 5  
SHEET:04-MOTOR AND DRIVE  
CONNECTIONS

NUMBER:200610-003

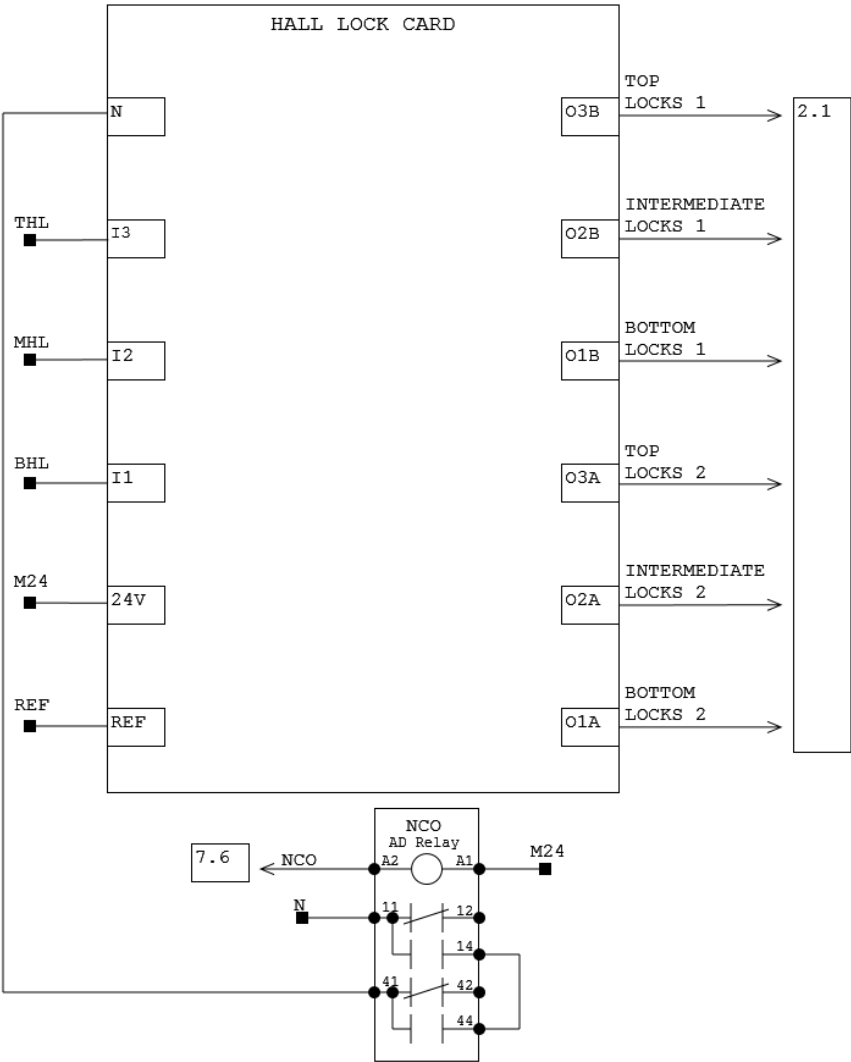
REVISION:A



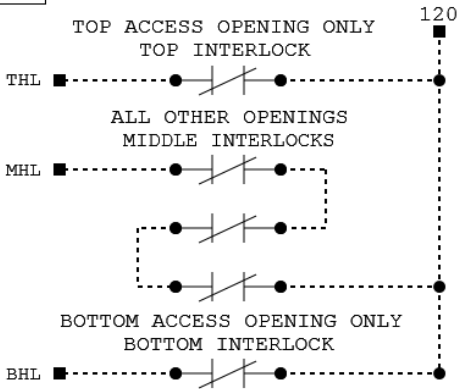
HYDRO NO OPTIONS



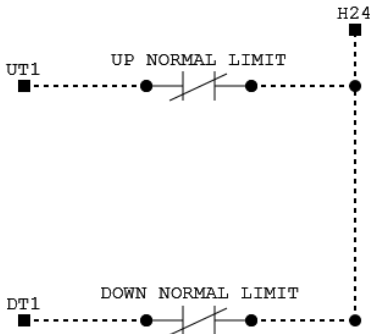
6.1 INTERLOCK RELAYS



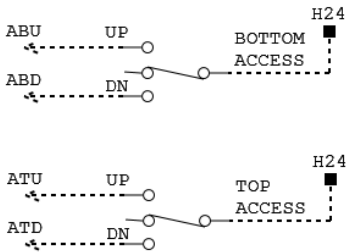
6.2 INTERLOCKS



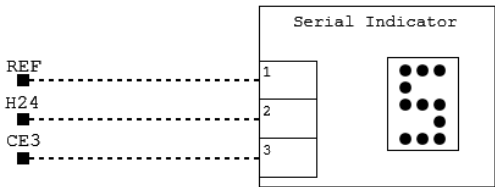
6.3 HOISTWAY SWITCHES

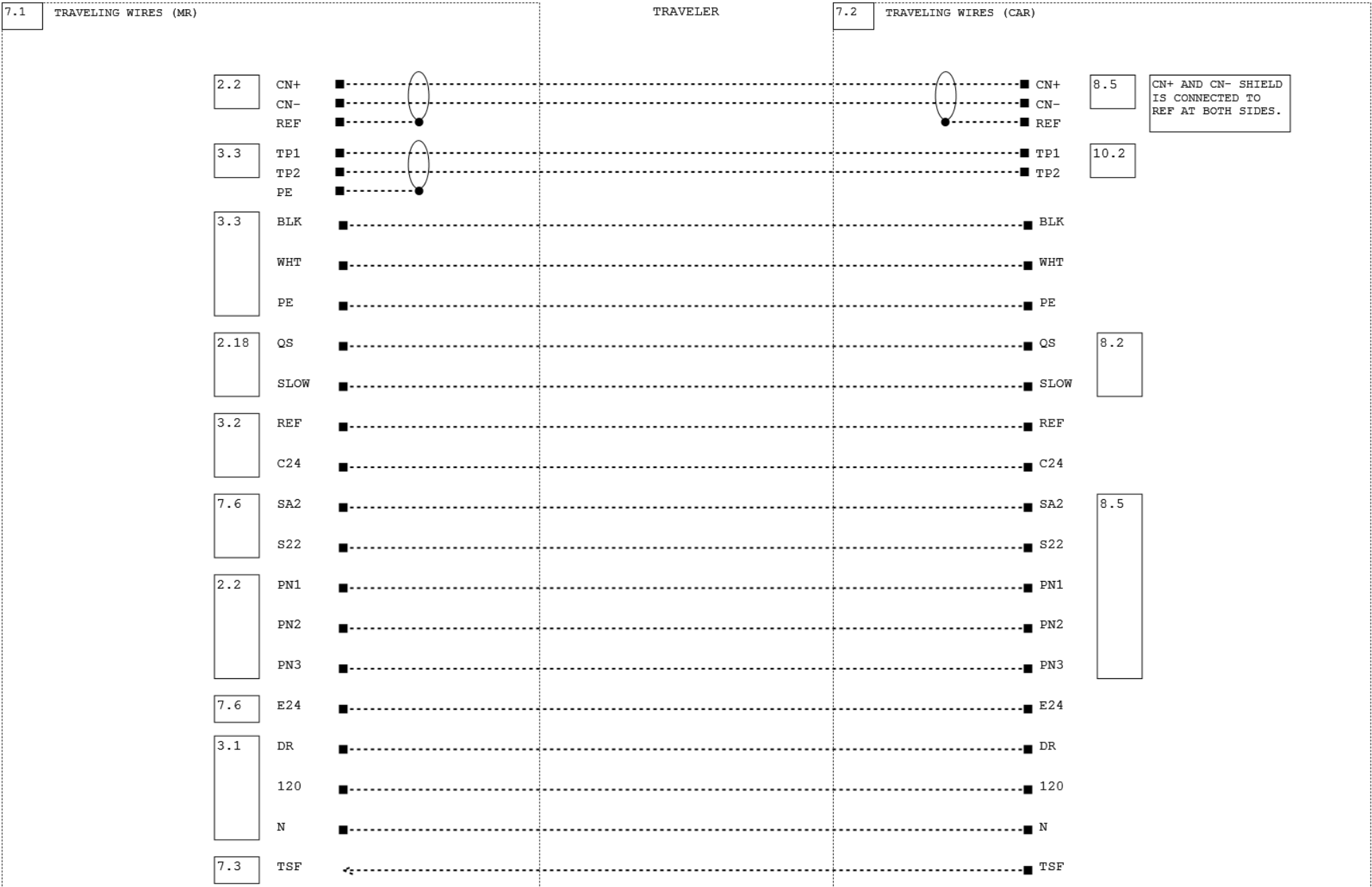


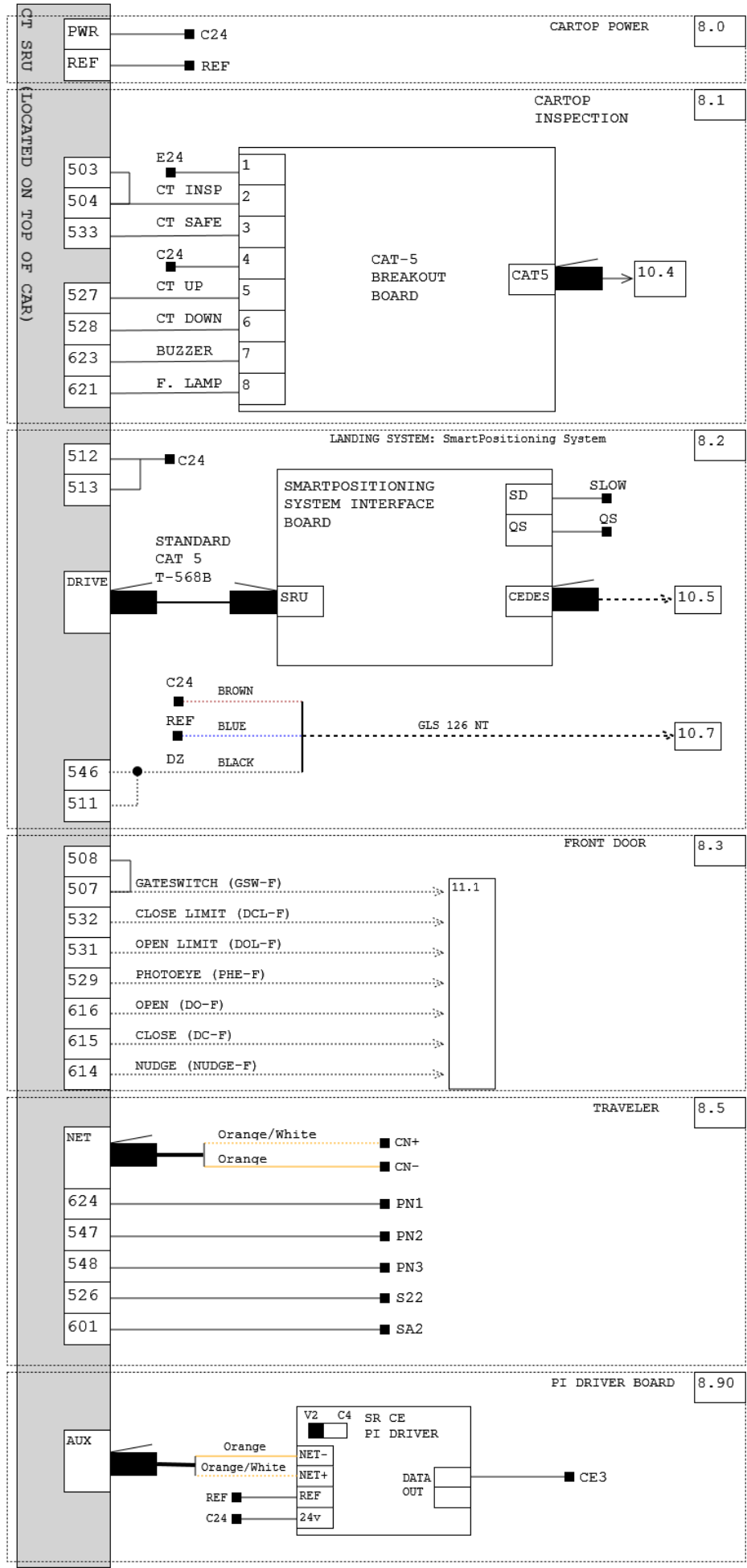
6.5 ACCESS SWITCHES

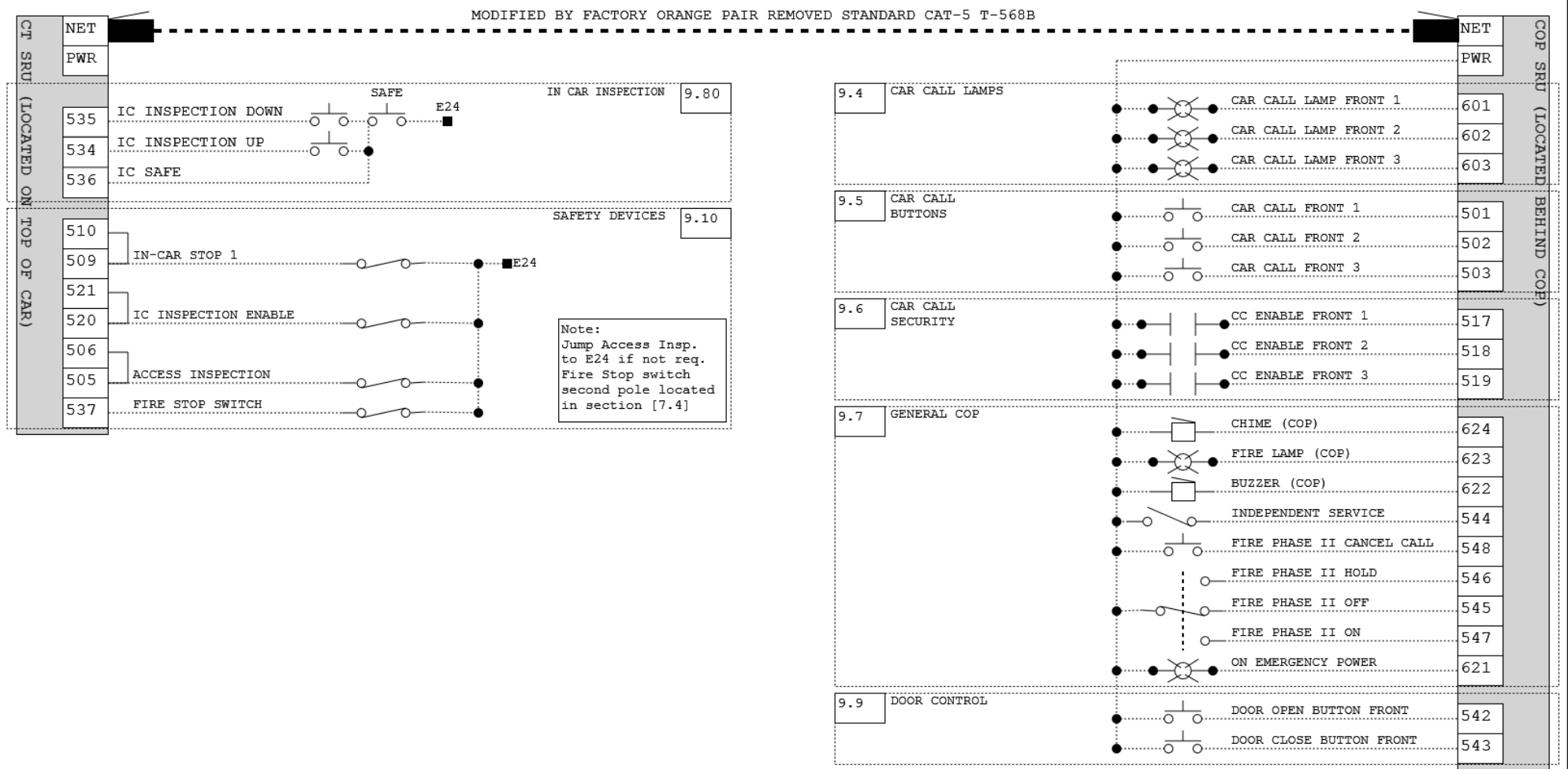


6.4 SERIAL INDICATORS (I.E. LANTERNS, PI)









MODIFIED BY FACTORY ORANGE PAIR REMOVED STANDARD CAT-5 T-568B

NET

PWR

9.4

CAR CALL LAMPS

CAR CALL LAMP FRONT 1

601

CAR CALL LAMP FRONT 2

602

CAR CALL LAMP FRONT 3

603

9.5

CAR CALL  
BUTTONS

CAR CALL FRONT 1

501

CAR CALL FRONT 2

502

CAR CALL FRONT 3

503

9.6

CAR CALL  
SECURITY

CC ENABLE FRONT 1

517

CC ENABLE FRONT 2

518

CC ENABLE FRONT 3

519

9.7

GENERAL COP

CHIME (COP)

624

FIRE LAMP (COP)

623

BUZZER (COP)

622

INDEPENDENT SERVICE

544

FIRE PHASE II CANCEL CALL

548

FIRE PHASE II HOLD

546

FIRE PHASE II OFF

545

FIRE PHASE II ON

547

ON EMERGENCY POWER

621

9.9

DOOR CONTROL

DOOR OPEN BUTTON FRONT

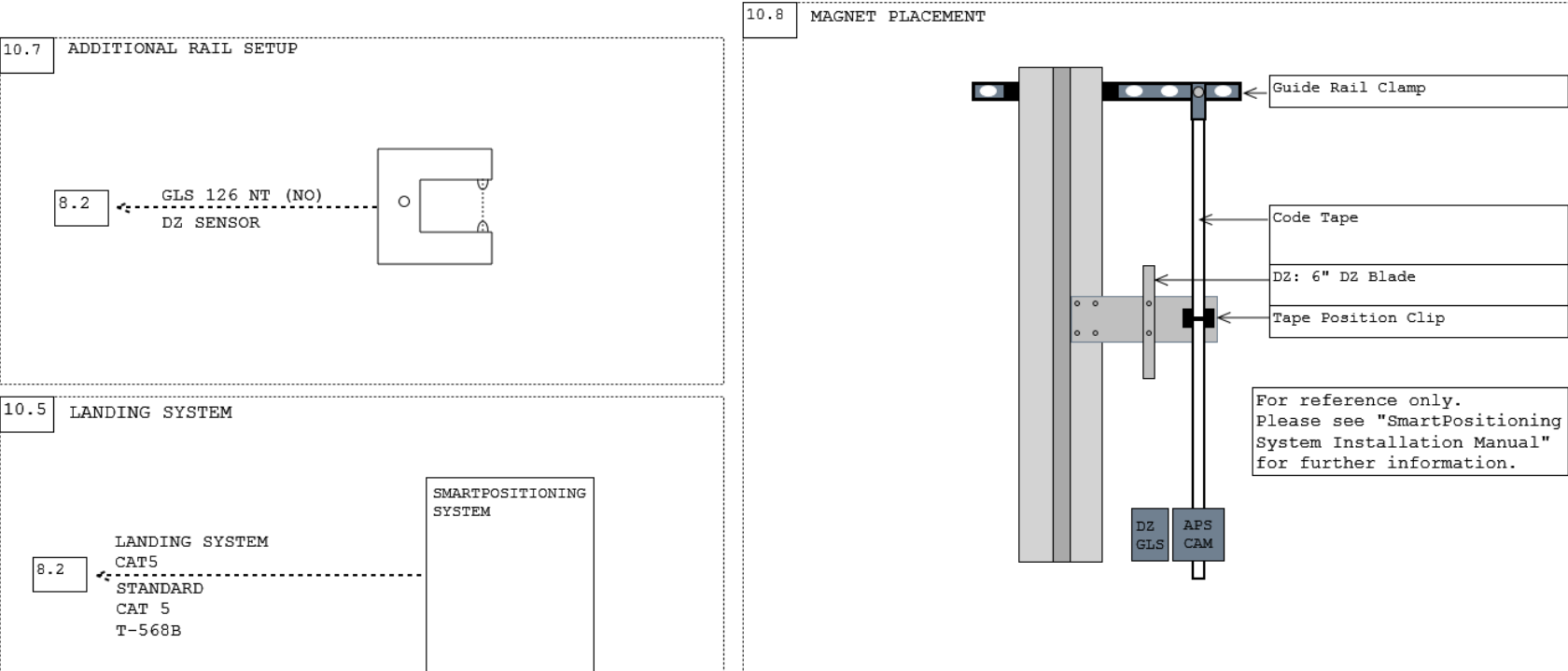
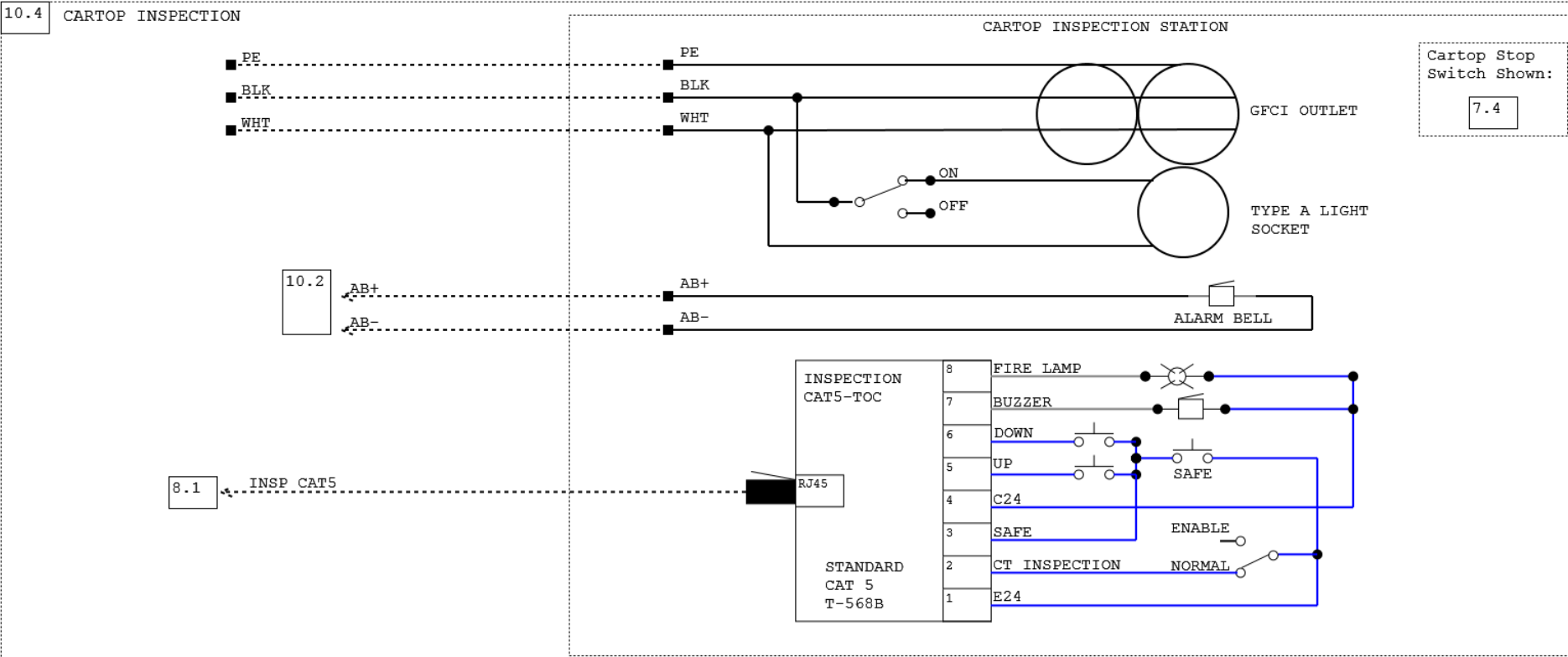
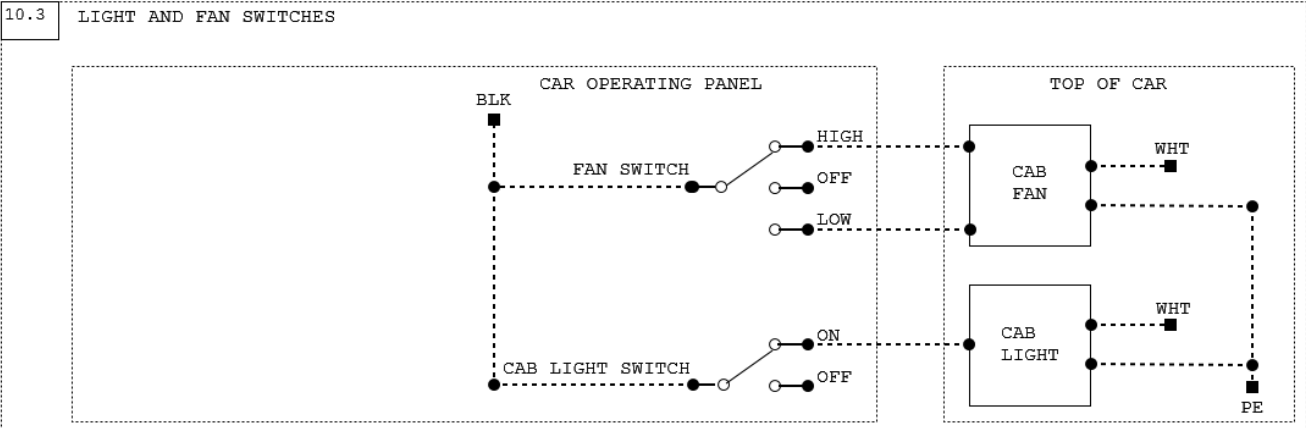
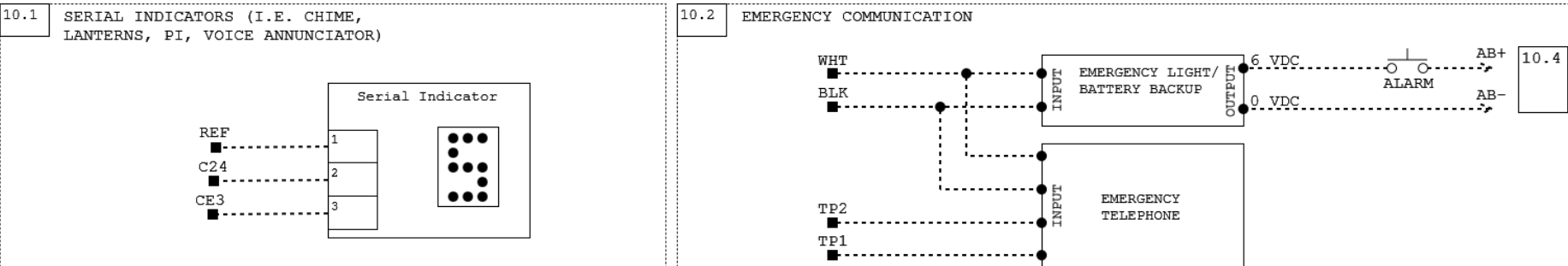
542

DOOR CLOSE BUTION FRONT

543

COP SRU (LOCATED BEHIND COP)

JUMPERS AND DIP SWITCHES				9.99
COP BOARD				
DIP A			DIP B	
# SWITCH USE:			# SWITCH STATE:	
1			1 OFF	
2			2 OFF	
3			3 OFF	
4			4 ON	
5			5 OFF	
6 POP UP BLOCKER			6 OFF	
7			7 OFF	
8			8 ON	



11.1 Front Door  
(See Section [3.1] for DR Voltage selection)

8.3

DR  
N

DCL-F (CT:532)

DOL-F (CT:531)

DO-F (CT:616)

DC-F (CT:615)

NDG-F (CT:614)

PHE-F (CT:529)

GSW-F (CT:507)

C24

E24

L1  
L2

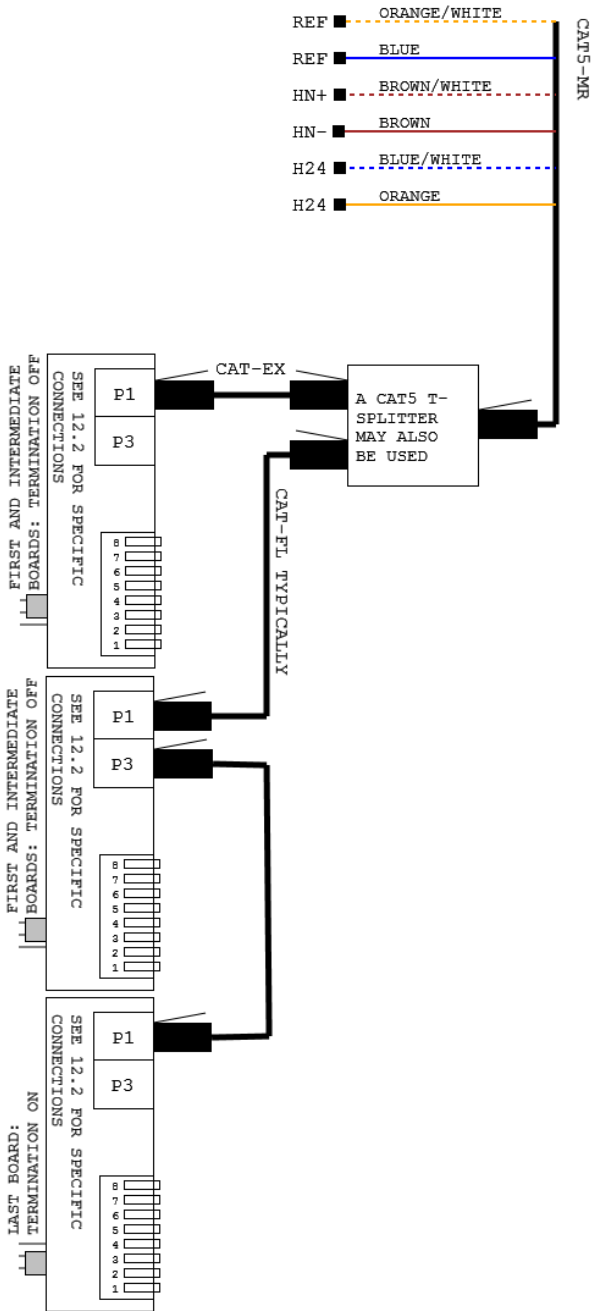
MOVFR II

Front Door Operator

DPM (NO)  
DPM (COM)  
DCL (NC)  
DCL (COM)  
DOL (NC)  
DOL (COM)  
OPEN  
CLOSE  
NUDGE  
COM  
REOPEN (NC)  
REOPEN (COM)  
GS  
GS1

Note: Remove OPEN,  
CLOSE, and NUDGE  
relay jumpers.

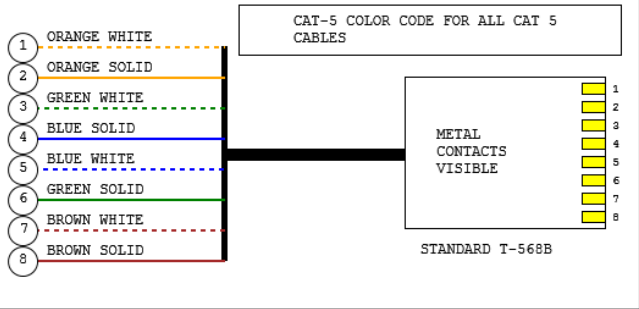
If not using a GAL Certified Light  
Curtain module (See MOVFR manual)  
Connect Normally Closed contact in  
series with "REOPEN (NC)"



NOTES

THE ORDER THAT THE BOARDS ARE CONNECTED IS NOT IMPORTANT. P1 AND P3 ALLOW DAISY-CHAINING. SEE 12.2 FOR HALL BOARD CONFIGURATIONS

SMARTRISE-SUPPLIED CAT5 CABLES		
PART	LENGTH (FT)	TYPICAL USE
CAT-MR	25	MACHINE ROOM TO HOISTWAY, FRONT TO REAR RISER
CAT-FL	15	FLOOR TO FLOOR, HALL CALL TO HALL LANTERN
CAT-EX	5	SPLITTER TO HALL CALL
CAT-BX	1	HALL CALL TO FIRE RECALL BOARD OR ACCESS BOARD



HN Hall Network DIP Switch Settings												
Landing	Front	Rear	PI	Type	Hall Board DIP Switch (X denotes switch is on)							
					1	2	3	4	5	6	7	8
1	x		1	Hall Calls								
2	x		2	Hall Calls	x							
3	x		3	Hall Calls		x						
1	x		1	Hall Lantern						x		
2	x		2	Hall Lantern	x					x		
3	x		3	Hall Lantern		x				x		
				Fire Recall							x	

