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Letter	Harness Base Part Number
ACB	Ancillary Bay
ACD	Ancillary Device Cluster
ACS	Ancillary Shunt Jumper
AT	A-Pillar Trim
B	Backbone
C	Center Console
CJFL	Chassis Jumper Front Left
CJFR	Chassis Jumper Front Right
CJRL	Chassis Jumper Rear Right
CJRR	Chassis Jumper Rear Right
CO	Cowl
CS	Cowl Speaker
D	Front Left Door
DC	Door Closures (Common)
DT	Front Left and Right Door Trim
E	Front Gate
F	Front Fascia
G	Rear Fascia
H	Megavac
J	IP (Instrument Panel)
JH	HVAC Dry Side
KT	Windshield Harness
L	FEM
ML	Side Assembly Left
MR	Side Assembly Right
MFJ	Roof Accessory Jumper
N	Front Drive Unit
P	Front Right Door
QL	Bed Left
QR	Bed Right
R	Rear Left Door
RT	Rear Left and Right Door Trim
RSJ	Rear Steer Jumper
S	Rear Right Door
SBW	Steer By Wire
T	Tailgate
UHP	Supermanifold
V	Cabin Floor
WL	Frunk Left
WR	Frunk Right
XT	Rear Drive Unit
Y	First Row Seat
YYSB	Second Row Seat

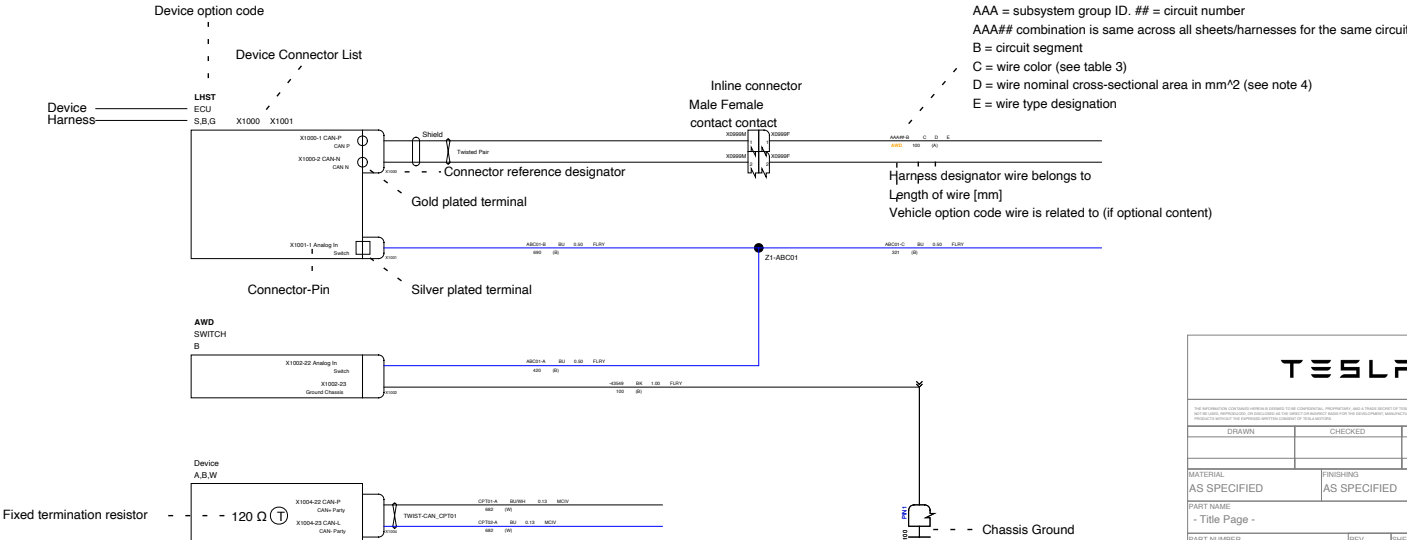
Table 1: Abbreviations			
FL	Front Left	FR	Front Right
RL	Rear Left	RR	Rear Right
LH	Left-Hand Side	RH	Right-Hand Side

Table 2: Wire Color Designators			
BK	Black	RD	Red
BN	Brown	TN	Tan
BU	Blue	VT	Violet (Purple)
GN	Green	WH	White
GY	Gray	YE	Yellow
OG	Orange	PK	Pink

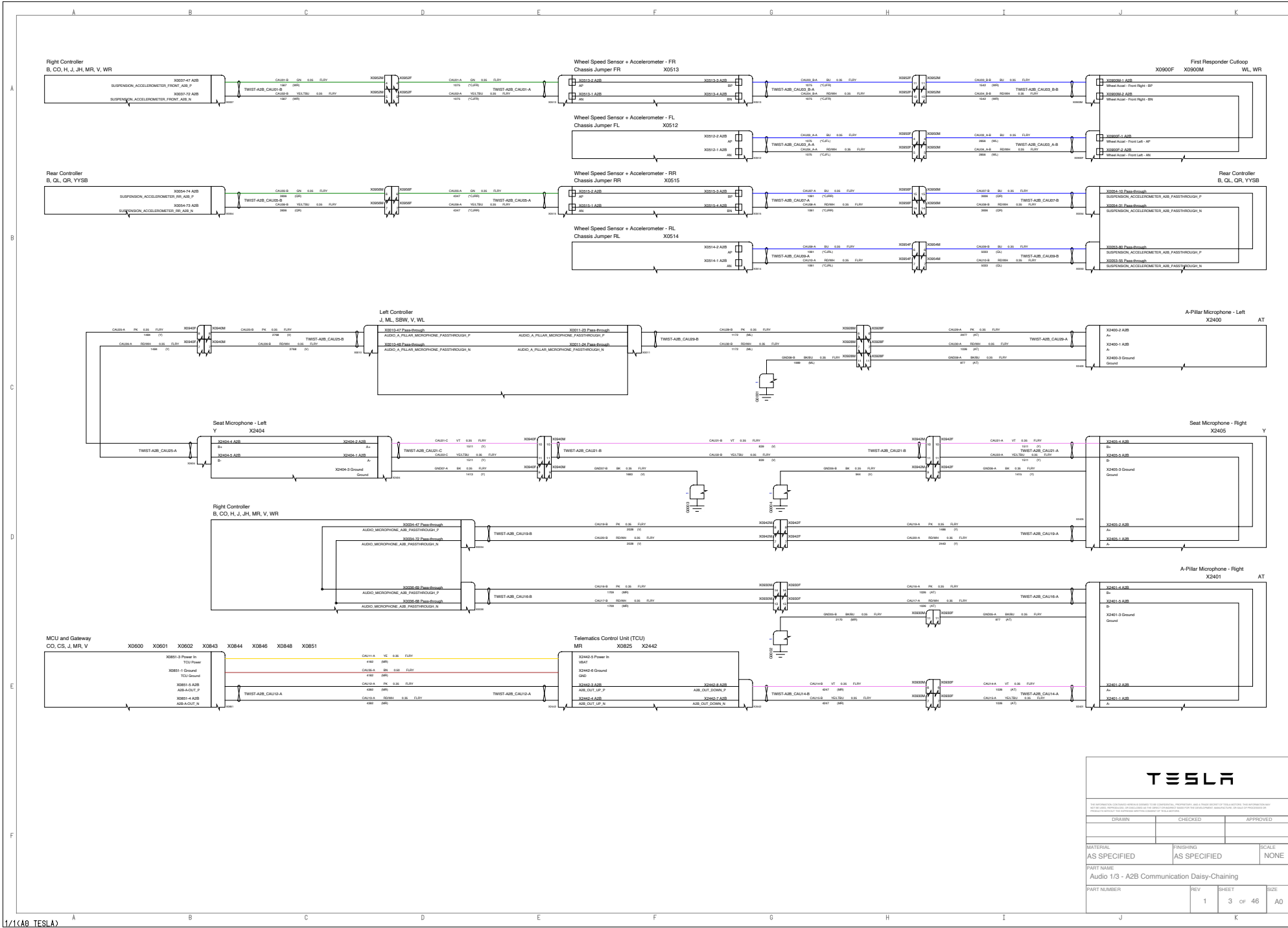
Table 3: Wire Type Designators	
FLRY	Thin wall 105C rated, regular stranded PVC insulated [FLRY-A]
FLRB	Thin wall 105C rated, bunched conductor PVC insulated [FLRY-B]
MCIV	Thin wall 105C rated, compressed conductor PVC (halogen free)
XR15	Thin wall 150C rated, cross-linked polyolefin, high flexible
FLXB	Thin wall 125C rated, cross-linked polyolefin, high flexible, halogen free
3TBL	Thick wall 105C rated, aluminum conductor PVC insulated
F91X	Thin wall 150C rated, cross-linked polyethylene, high flexible
ISOD	ISO compliant specialty harnessing

- General Notes:
- Switches [Relays] are shown in their inactive [de-energized] state.
 - Splices may be split across pages for visual clarity.
 - Some connectors are split across multiple pages for clarity.
There is no overall reference in this document for the signals routed to a specific connector.
 - Wire sizes are specified in mm² cross-sectional area (CSA) per SAE 1127/8
 - Wire Specification: 60V, thin-wall PVC (ISO type or equivalent).
Default wire type to be rated 60VDC/25VAC and -40C to 105C operating temperature.
See DIN 13602 or ISO 6722 for detailed specifications.
 - Unless otherwise specified at the device pins, terminal plating is to be Tin or Pre-Tin
- | TERMINAL PLATING |
|---|
| ☐ GOLD TERMINAL NECESSARY |
| ☐ SILVER PLATING NECESSARY |
- Inline connector gender specification is based on the terminal type.
Inline connectors with "M" suffix have male, tab or pin terminals
Inline connectors with "F" suffix have female, receptacle or socket terminals
 - Circuit prefixes indicate special conditions:
"++" No repinning, splicing, reworks, deviations, or manual continuity check
"+" Repairs may only be performed by Tesla certified technicians
"HV_" High Voltage Circuits

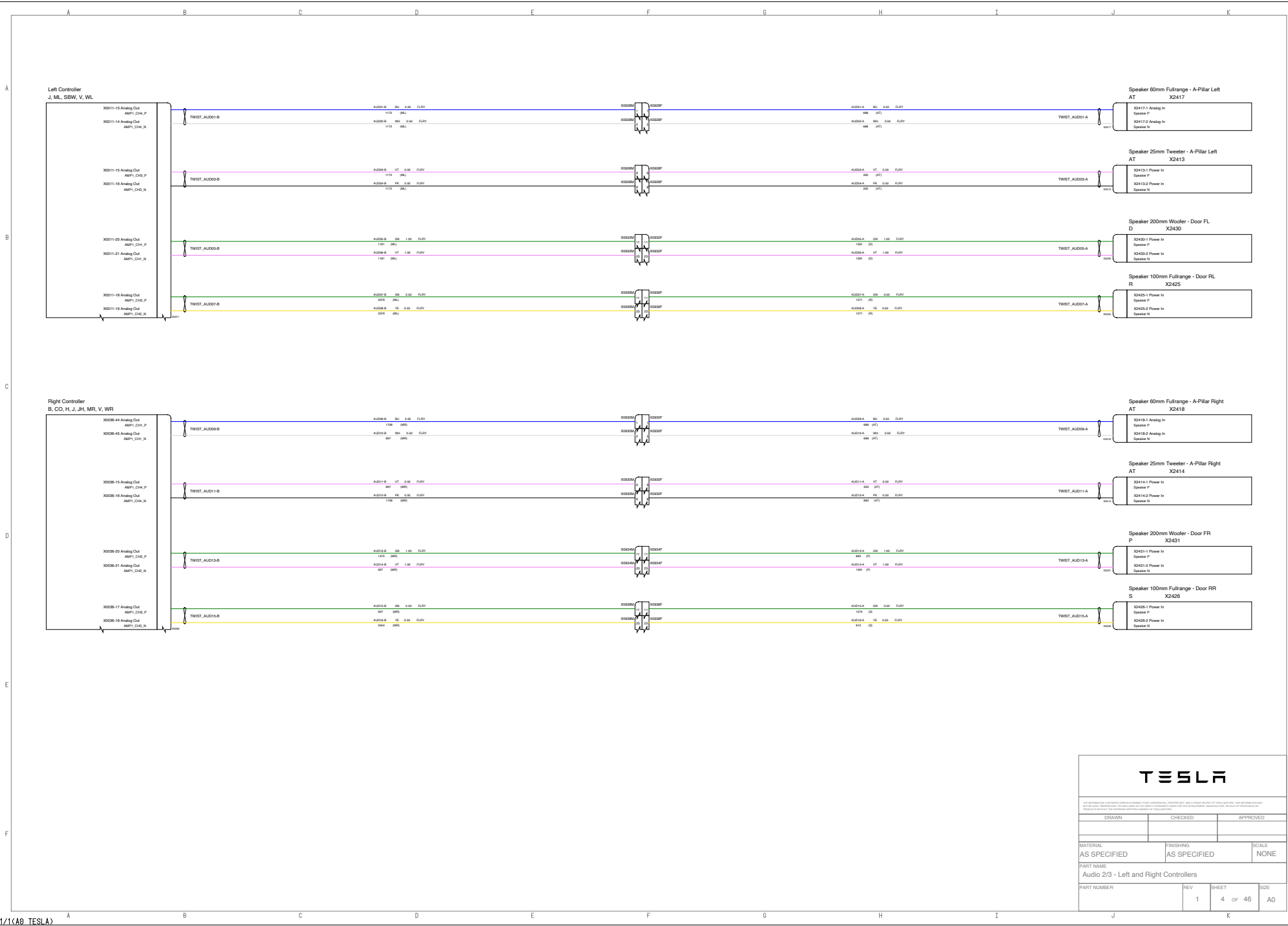
Table 5: Option Codes	
LHST	Left Hand Seat or Trim
RHST	Right Hand Seat or Trim
LCK	Locking Differential
TRI	Trimotor



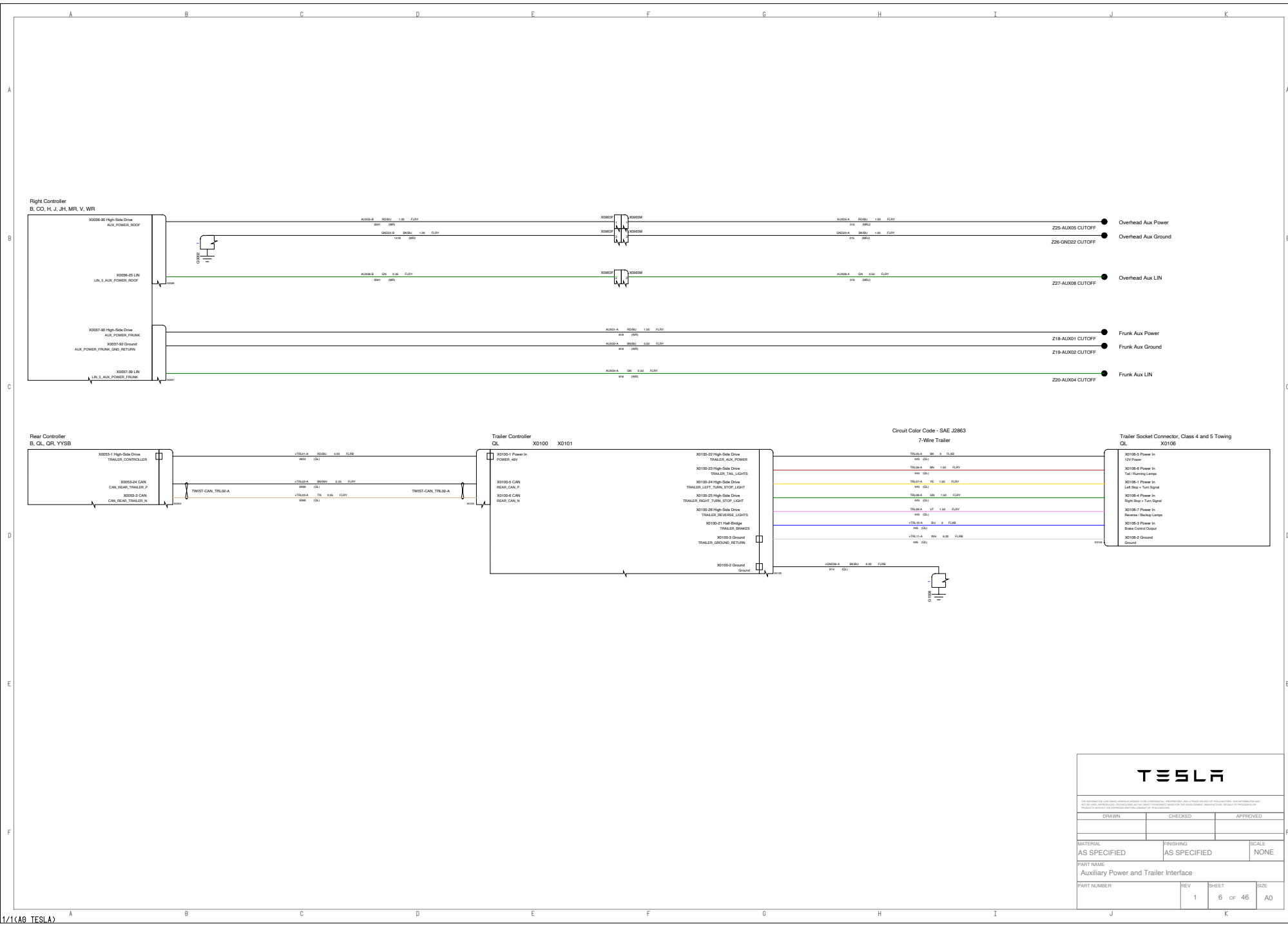
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PART NAME - Title Page -			
PART NUMBER	REV	SHEET	SIZE
	1	1 OF 46	A0

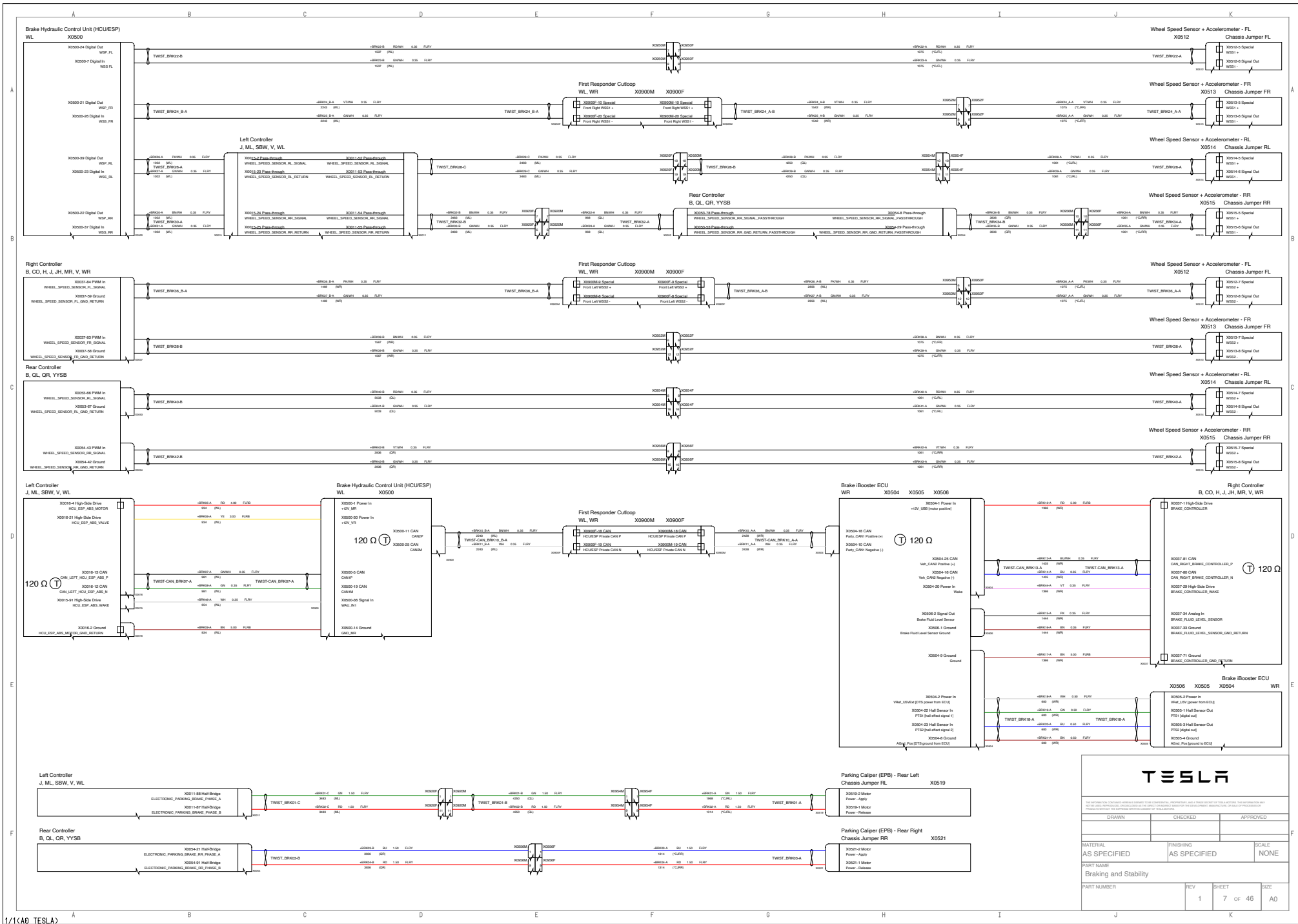


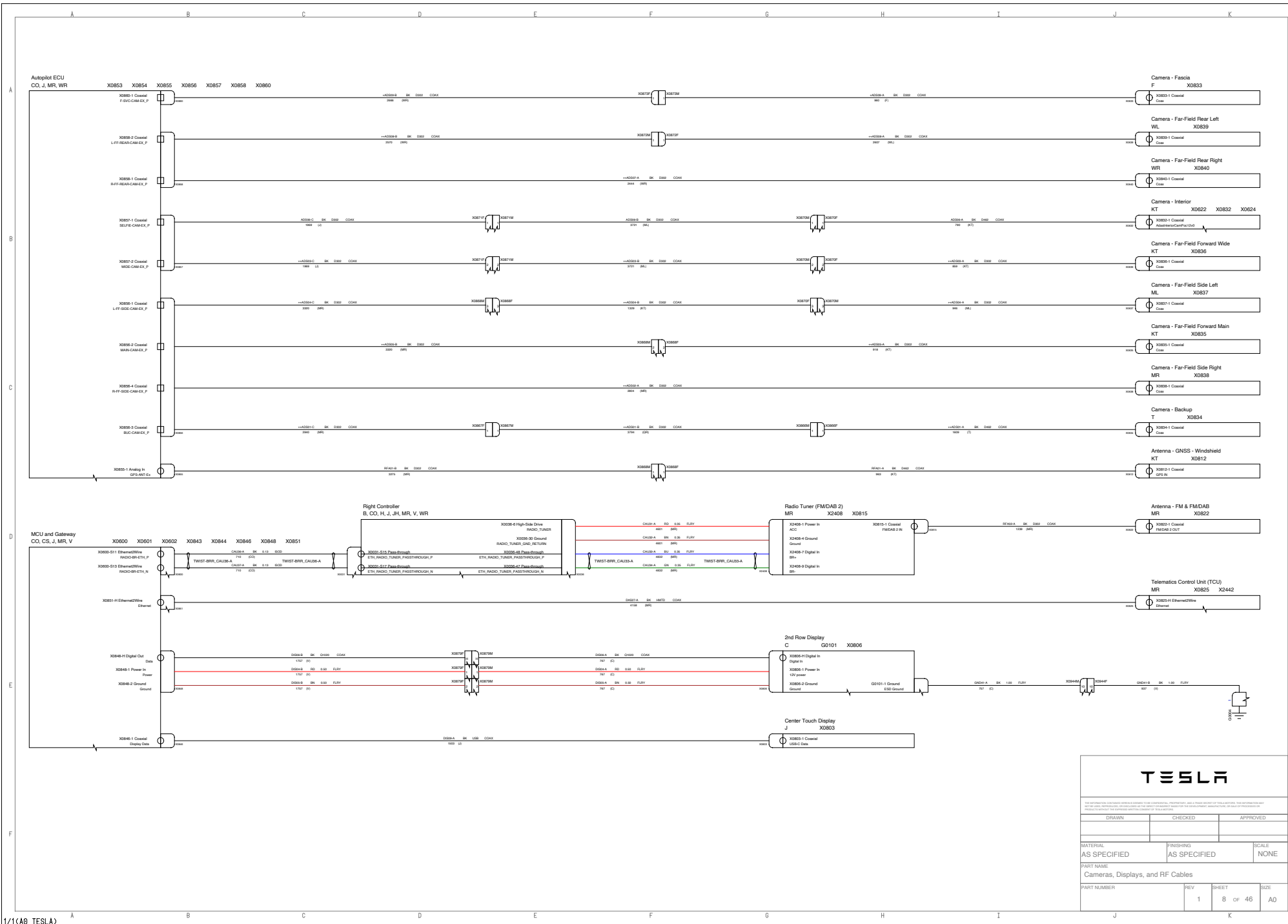
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PART NAME Audio 1/3 - A2B Communication Daisy-Chaining			
PART NUMBER	REV 1	SHEET 3 OF 46	SIZE A0



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DRAWN	CHECKED	APPROVED	
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PART NAME Audio 2/3 - Left and Right Controllers			
PART NUMBER	REV 1	SHEET 4 OF 46	SIZE A0

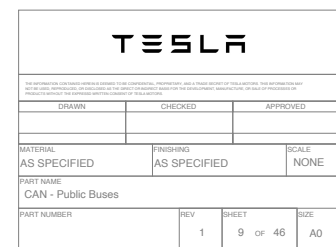


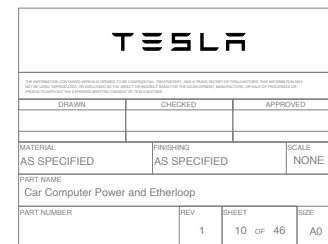


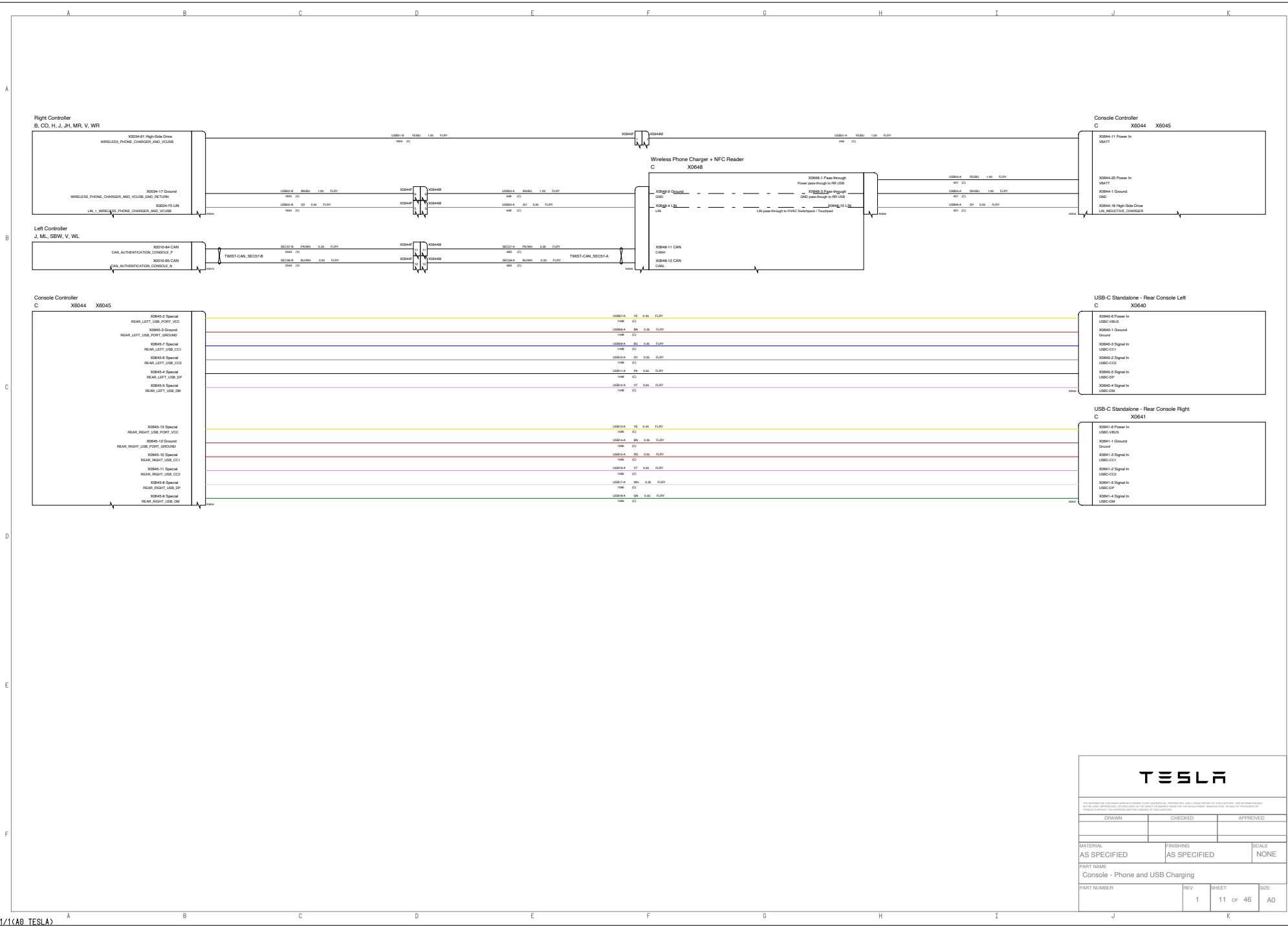


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MATERIAL AS SPECIFIED			FINISHING AS SPECIFIED	SCALE NONE
PART NAME Cameras, Displays, and RF Cables				
PART NUMBER		REV 1	SHEET 8 OF 46	SIZE A0







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MATERIAL FINISHING SCALE

AS SPECIFIED AS SPECIFIED NONE

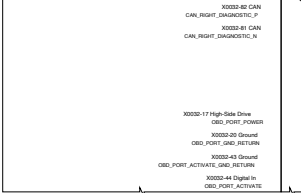
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Console - Phone and USB Charging

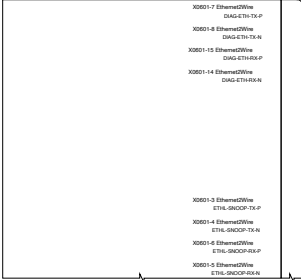
PART NUMBER REV SHEET SIZE

1 11 OF 46 A0

Right Controller
B, CO, H, J, JH, MR, V, WR



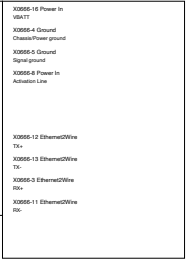
MCU and Gateway
CO, CS, J, MR, V



Diagnostic Port - Right CAN
J X0678



OBD (NA Only)
J X0668



Ethersnoop Diagnostic - RJ45
J X0675



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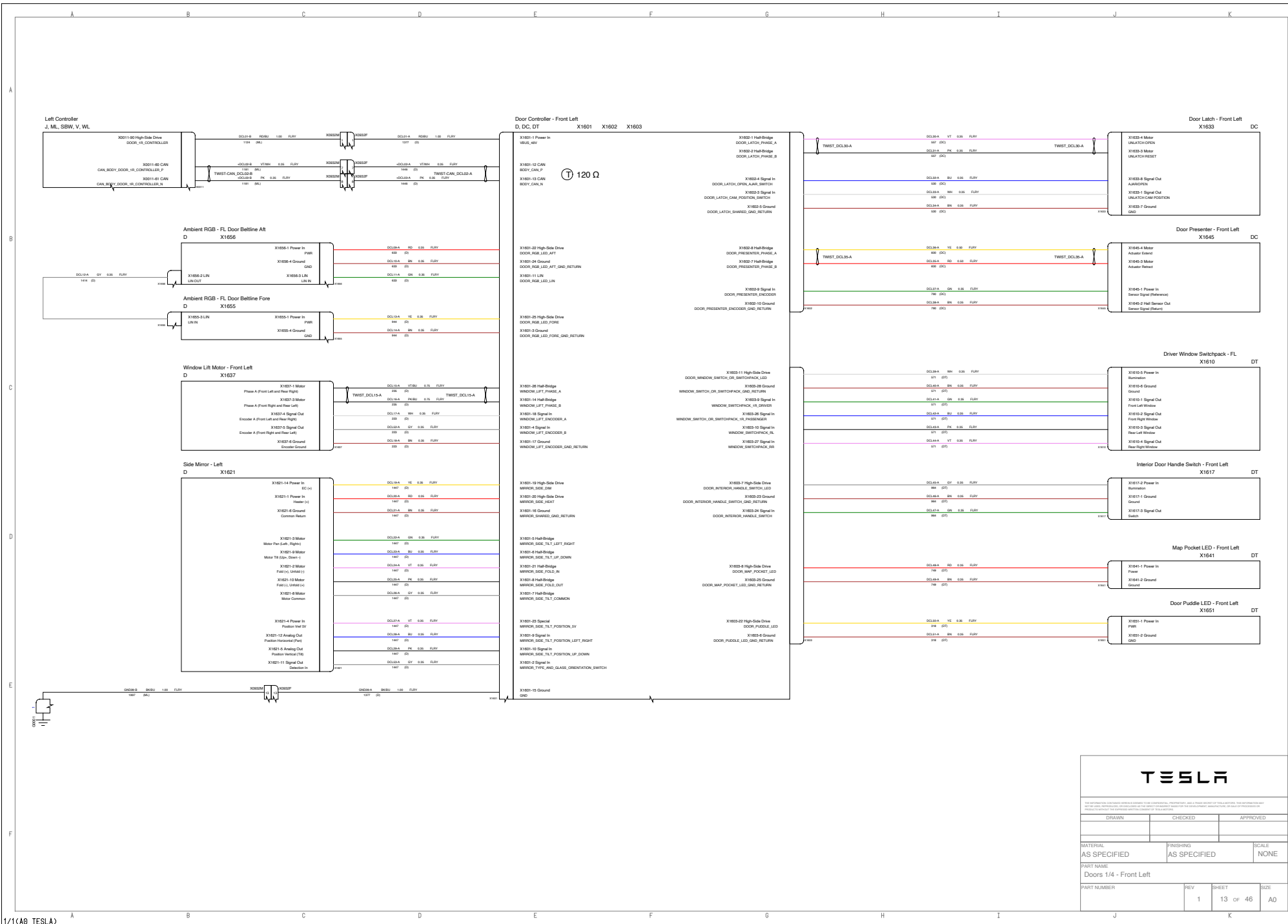
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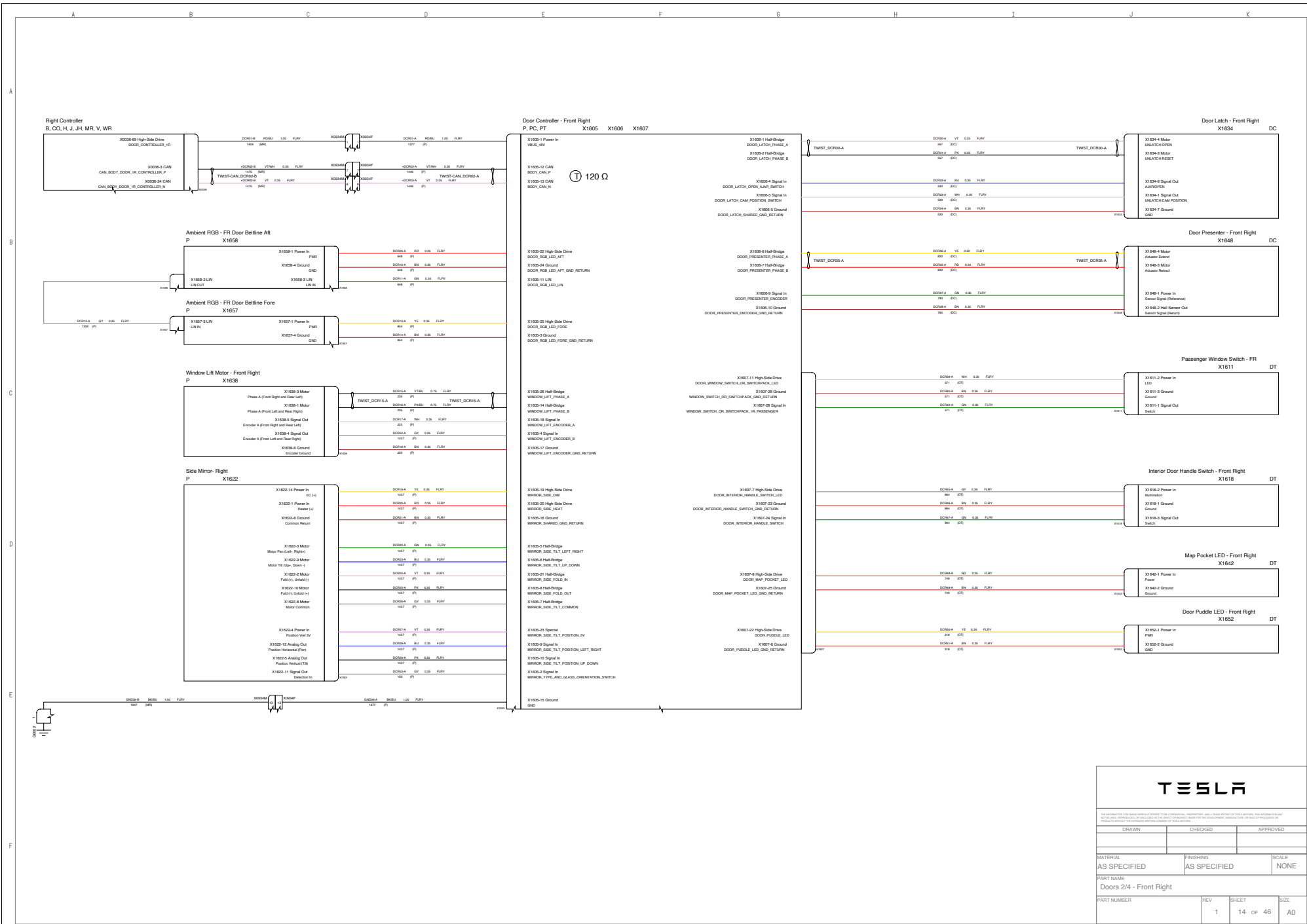
PART NUMBER REV SHEET SIZE

1 12 OF 46 A0

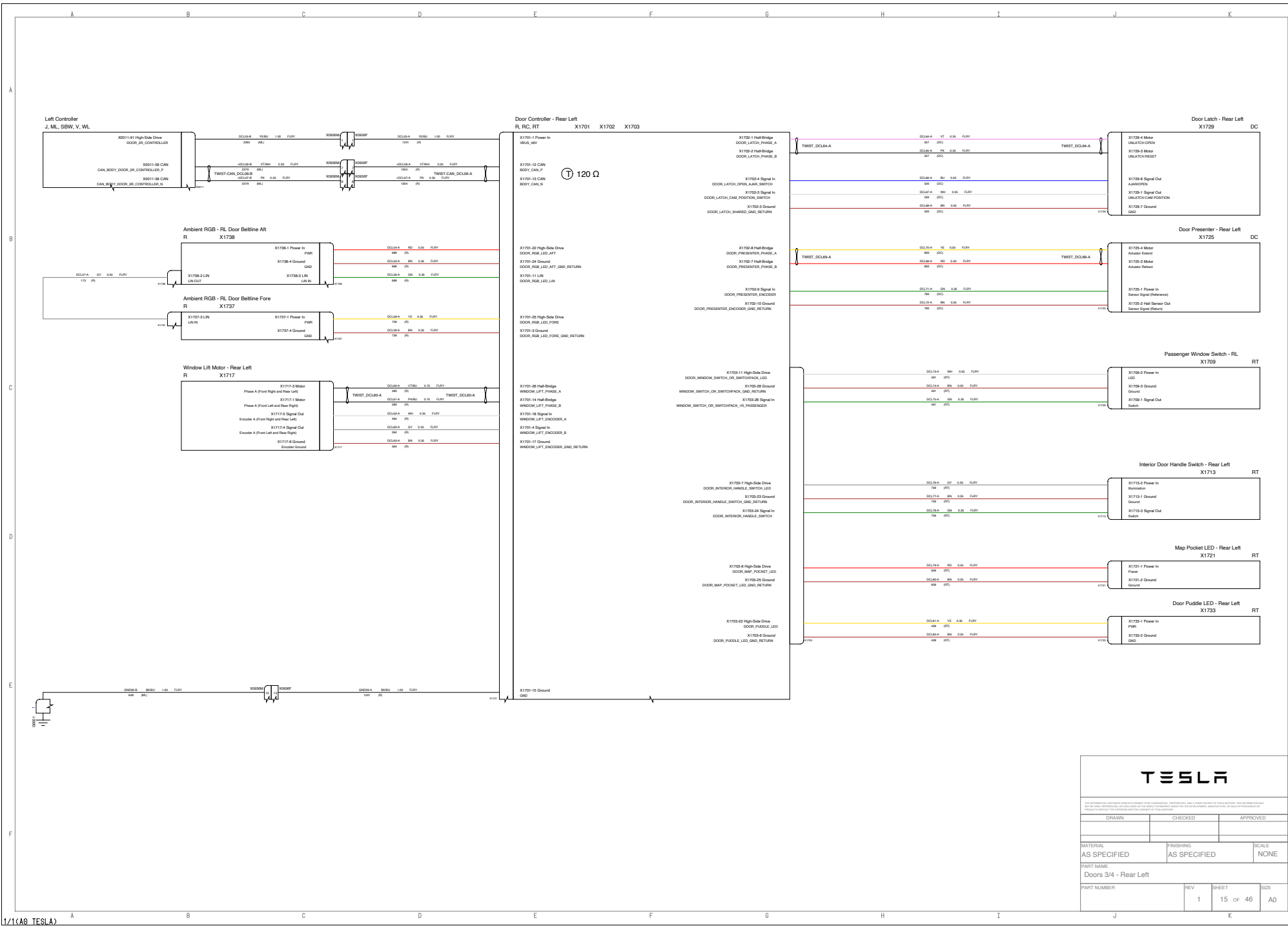


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AS SPECIFIED			AS SPECIFIED			NONE		
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Doors 1/4 - Front Left								
PART NUMBER			REV		SHEET		SIZE	
			1		13 OF 46		A0	



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MATERIAL AS SPECIFIED		FINISHING AS SPECIFIED	SCALE NONE
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PART NUMBER	REV	SHEET	SIZE
	1	14 OF 46	A0



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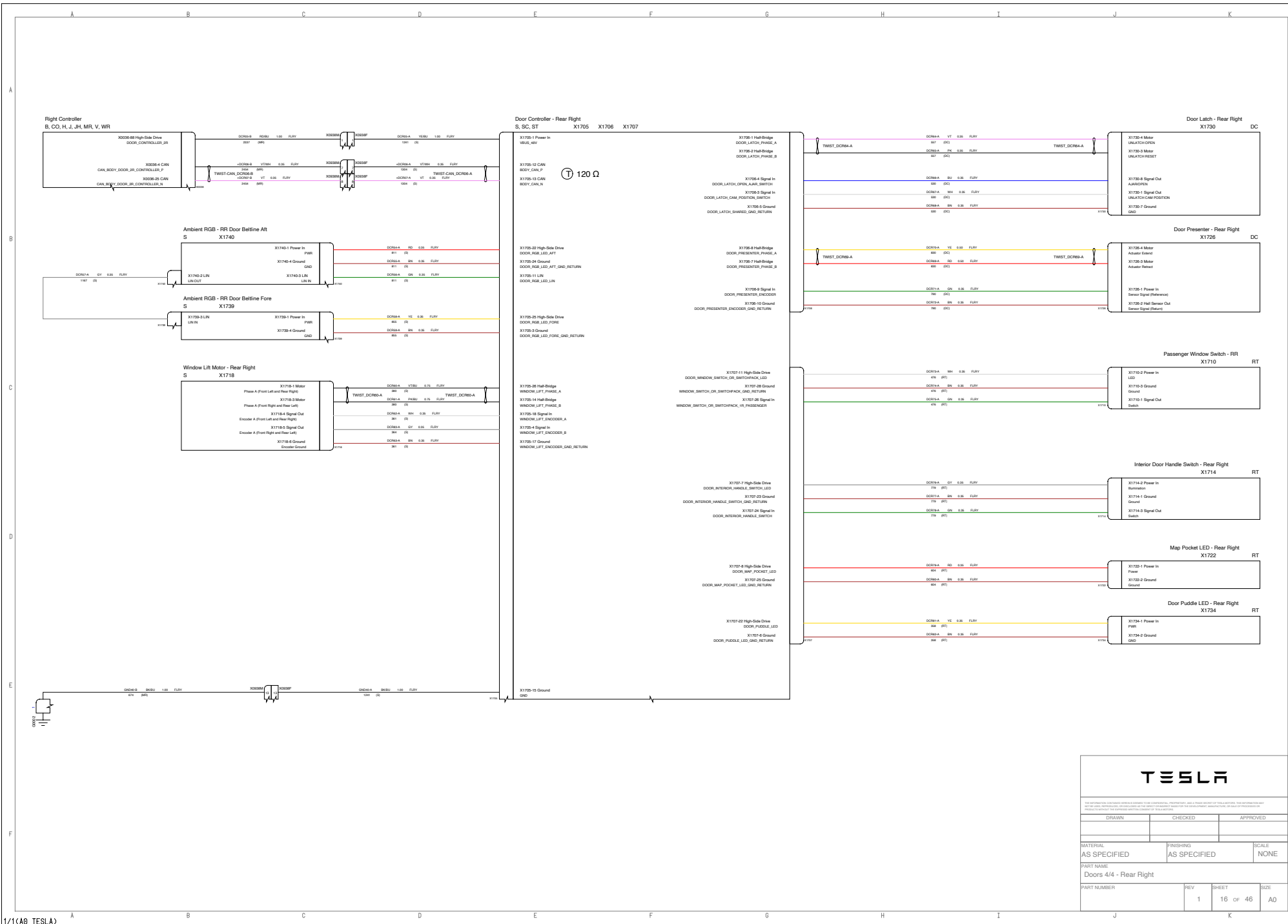
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MATERIAL: AS SPECIFIED FINISHING: AS SPECIFIED SCALE: NONE

PART NAME: Doors 3/4 - Rear Left

PART NUMBER: 1 REV: 15 OF 46 SHEET: A0



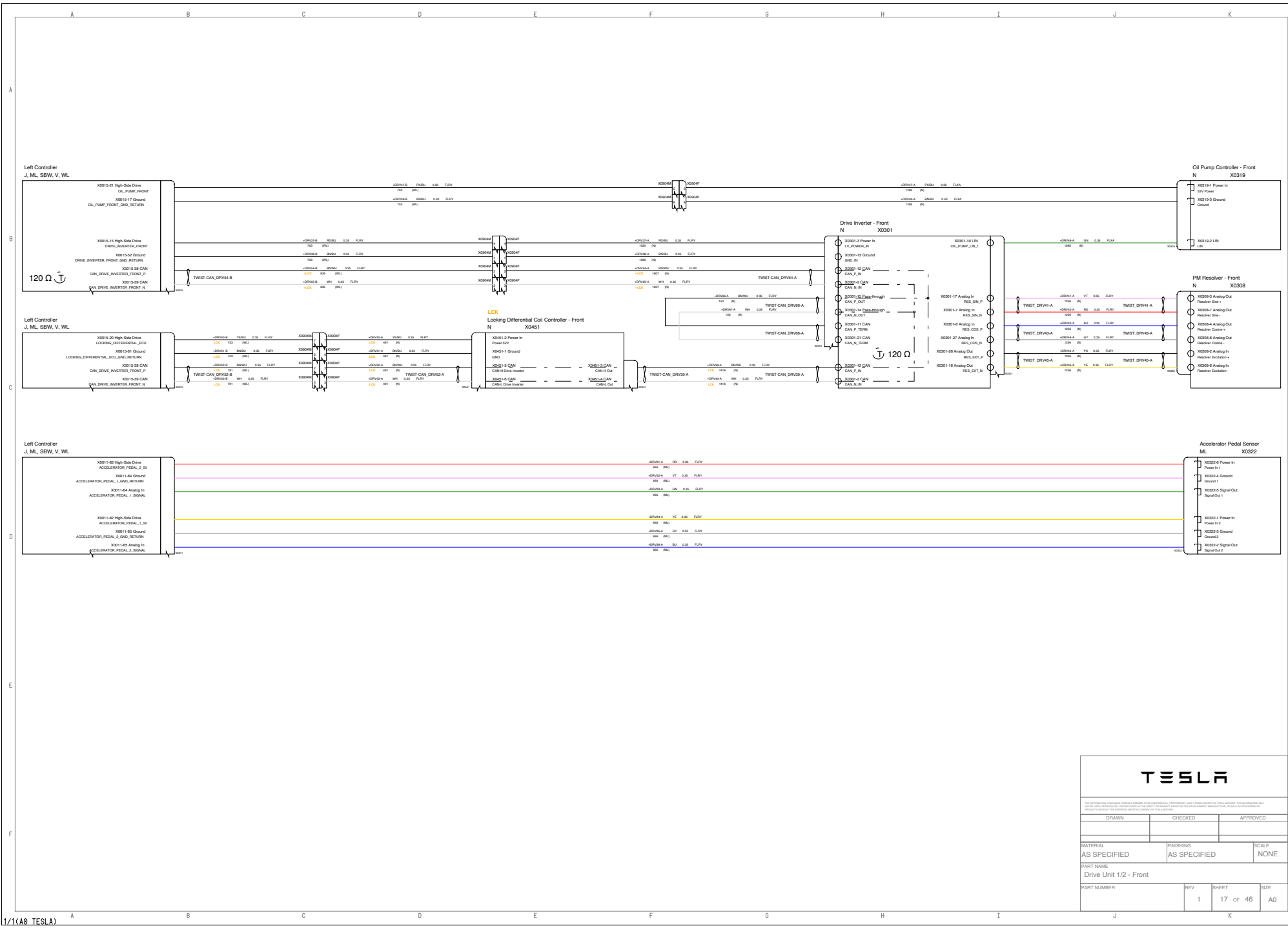
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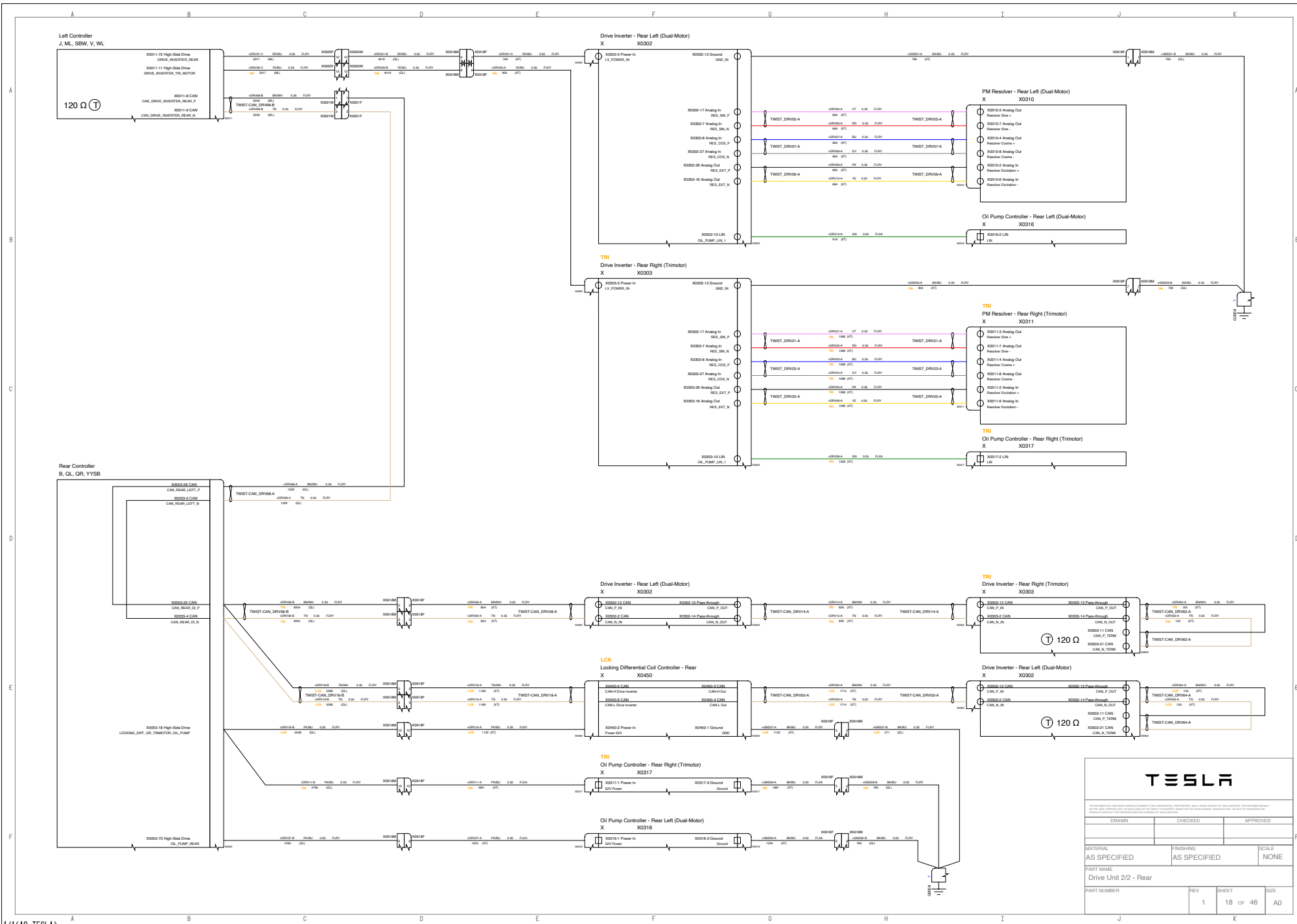
PART NAME: Doors 4/4 - Rear Right

PART NUMBER: 1 REV: 16 OF 46 SHEET: A0

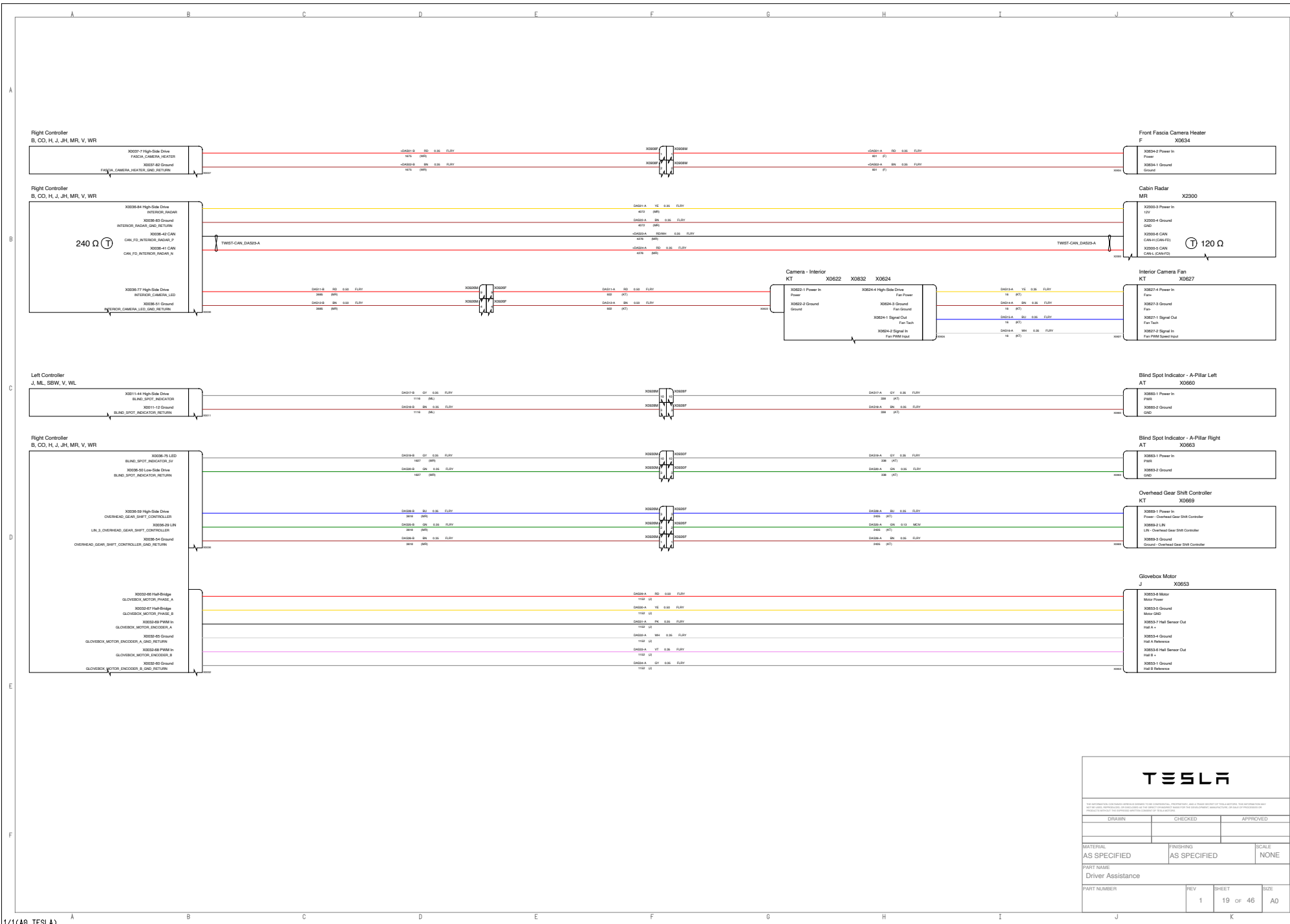


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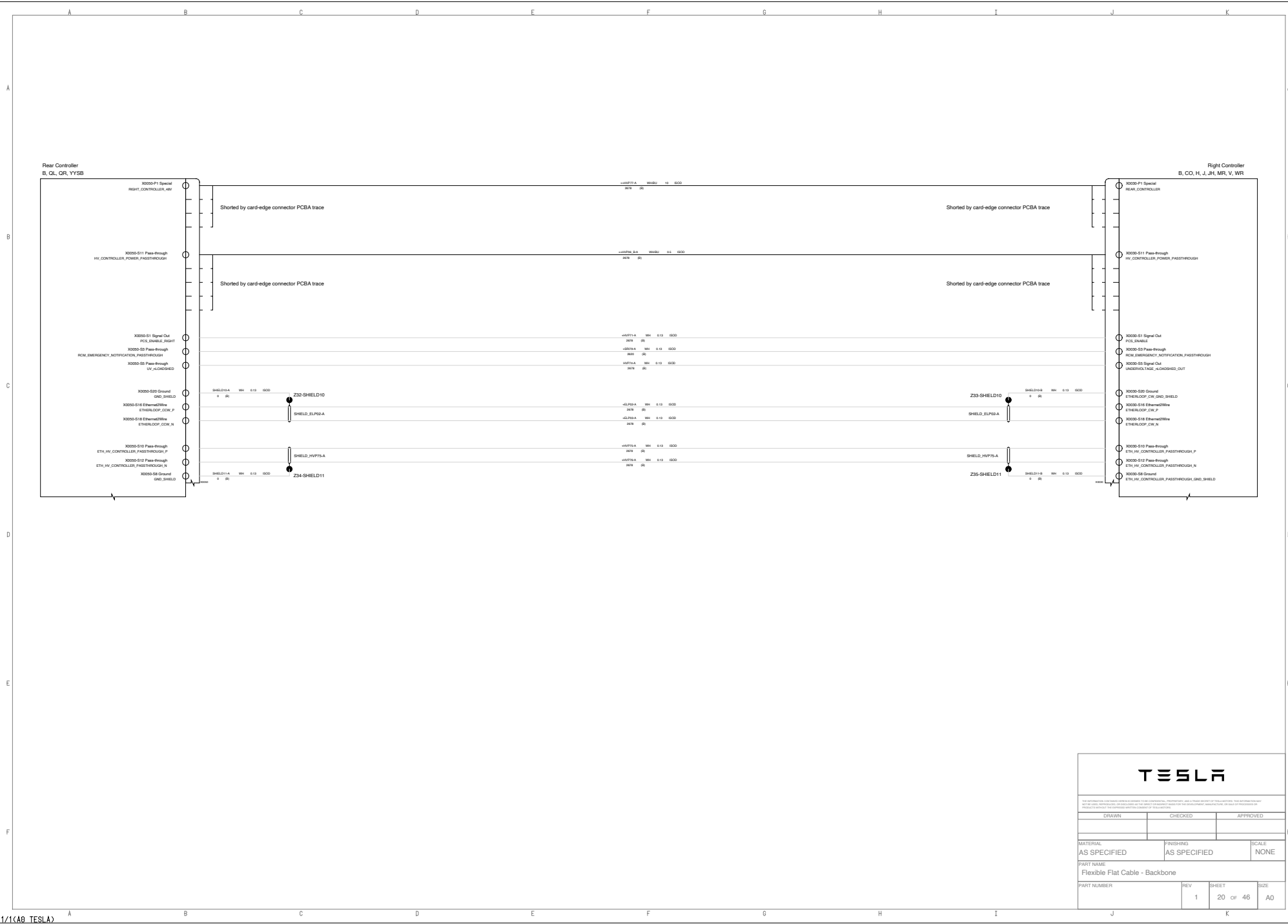
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SCALE			
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Drive Unit 1/2 - Front			
PART NUMBER			
REV			
1			
SHEET			
17 OF 46			
SIZE			
A0			



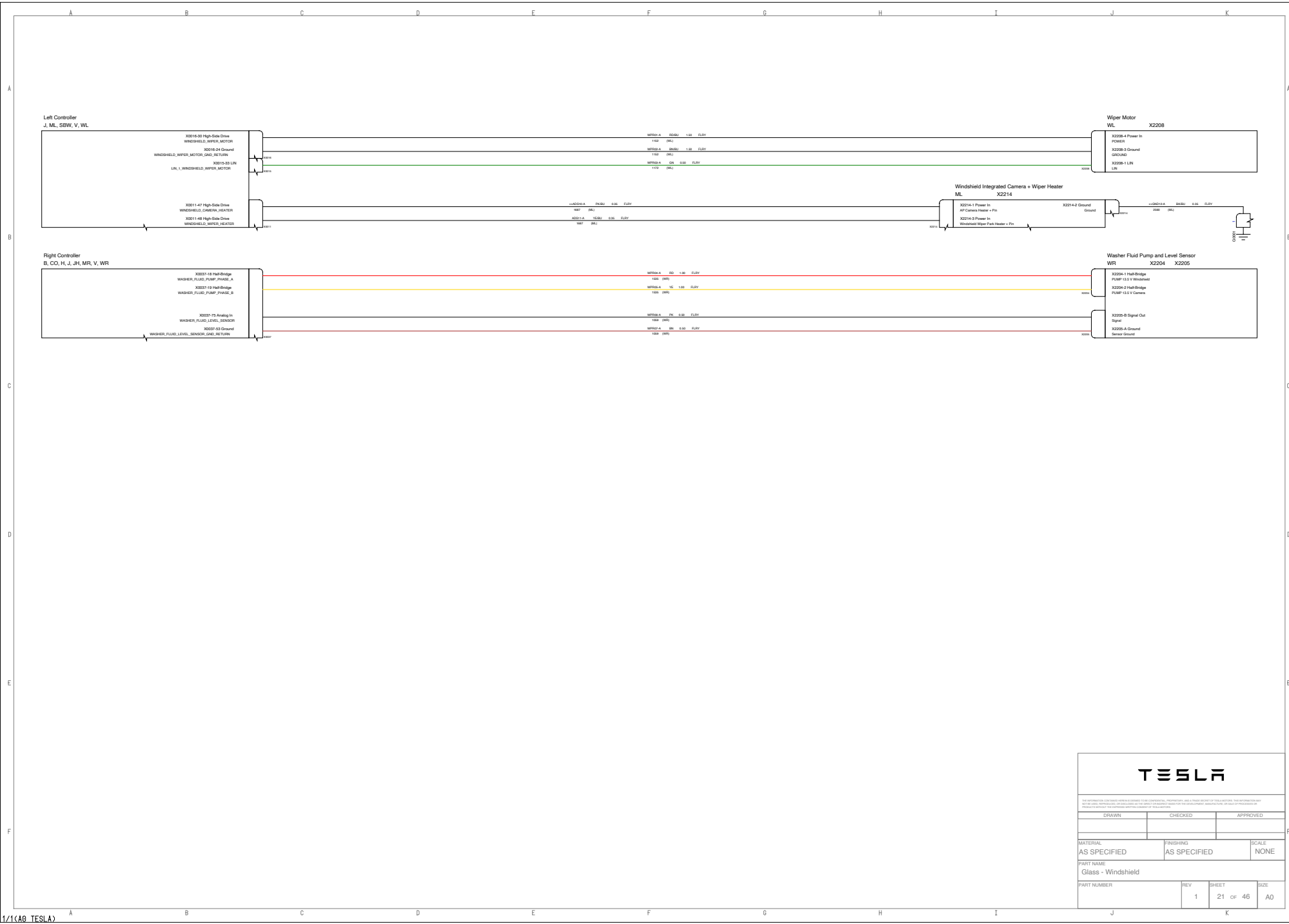
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PART NAME Drive Unit 2/2 - Rear			
PART NUMBER			
REV 1			
SHEET 18 OF 46			
SIZE A0			



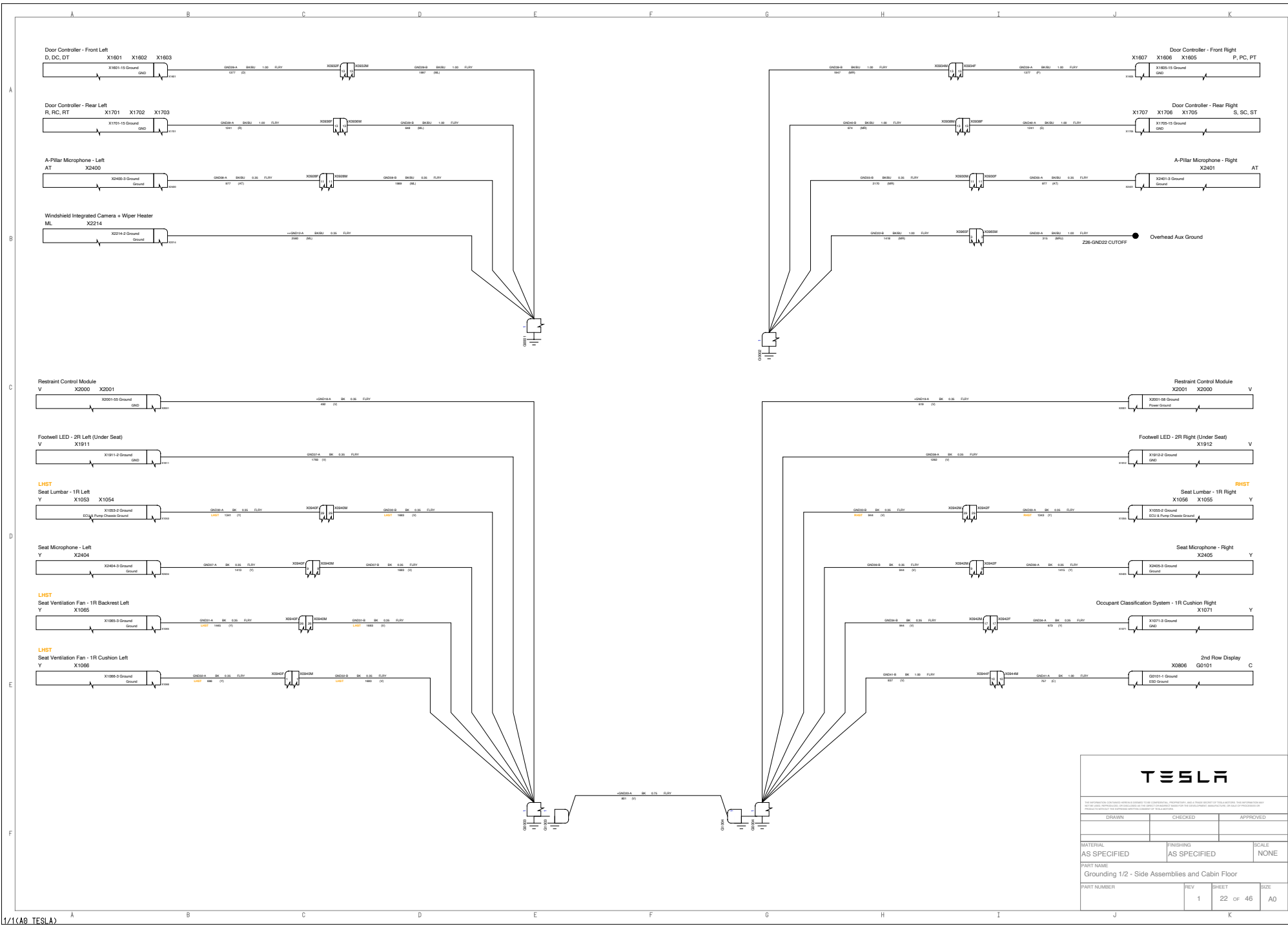
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DRAWN		CHECKED	APPROVED
MATERIAL AS SPECIFIED		FINISHING AS SPECIFIED	SCALE NONE
PART NAME Driver Assistance			
PART NUMBER		REV 1	SHEET 19 OF 46
		SIZE A0	



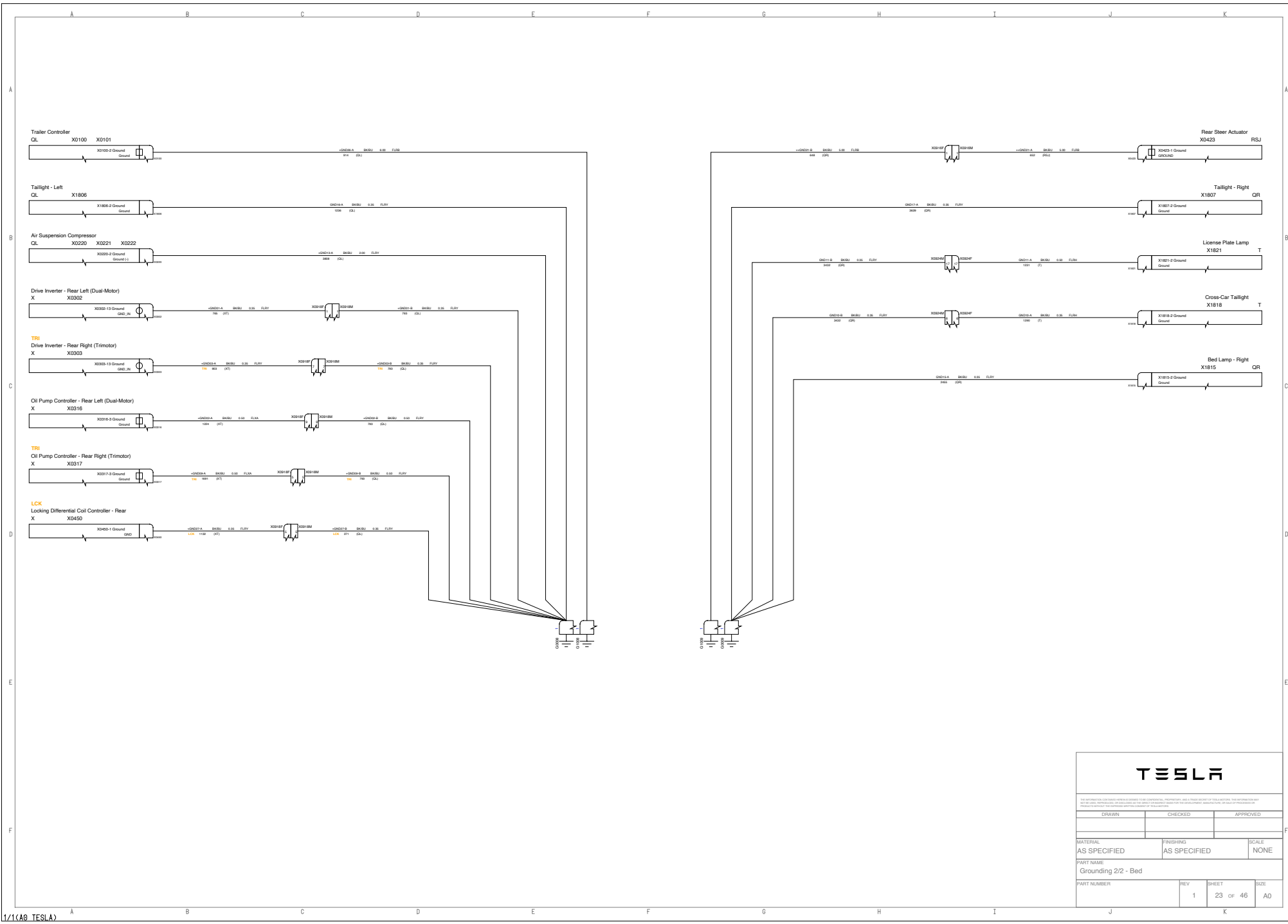
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DRAWN	CHECKED	APPROVED	
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PART NAME Flexible Flat Cable - Backbone			
PART NUMBER	REV 1	SHEET 20 OF 46	SIZE A0



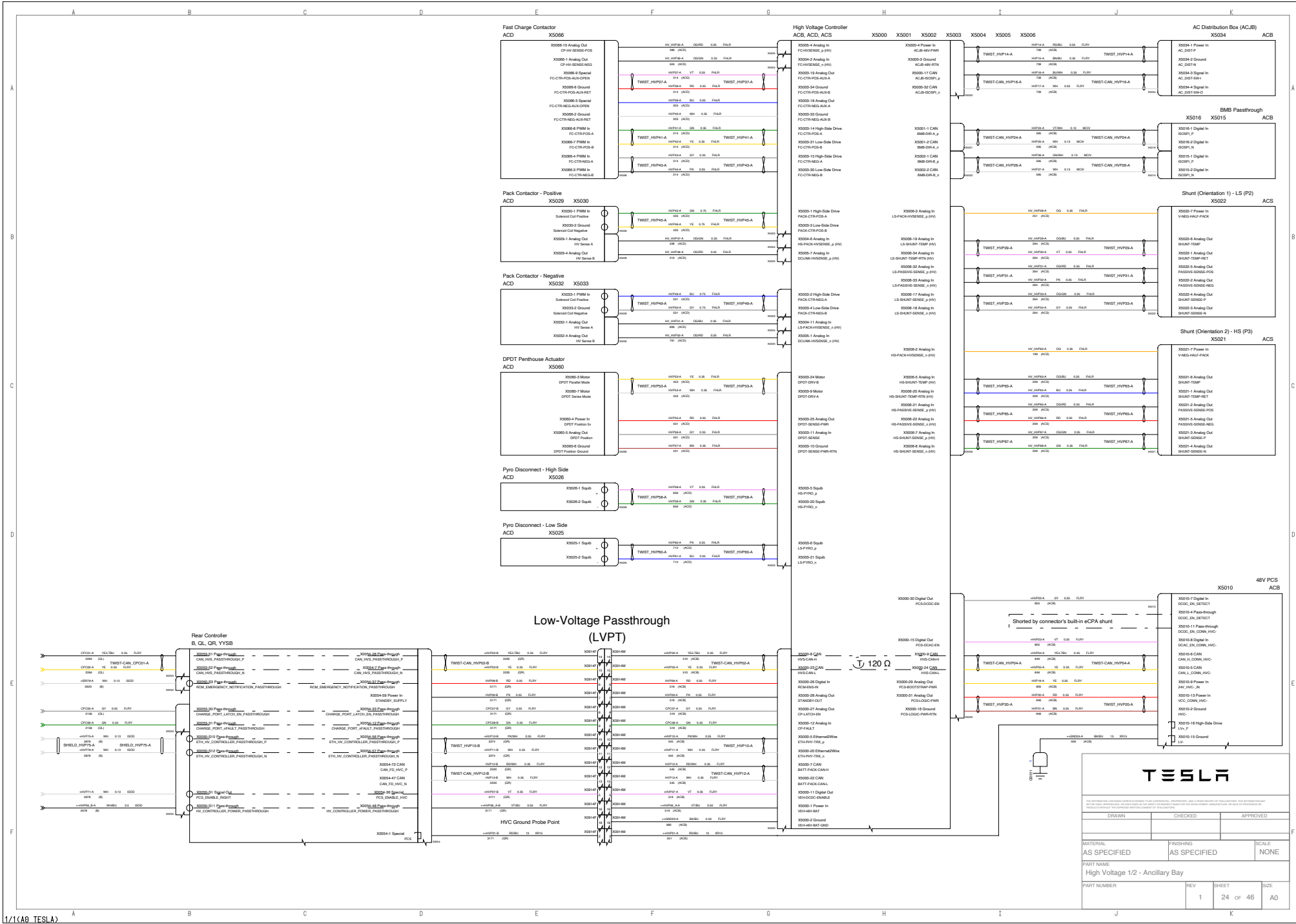
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PART NAME Glass - Windshield			
PART NUMBER	REV 1	SHEET 21 OF 46	SIZE A0

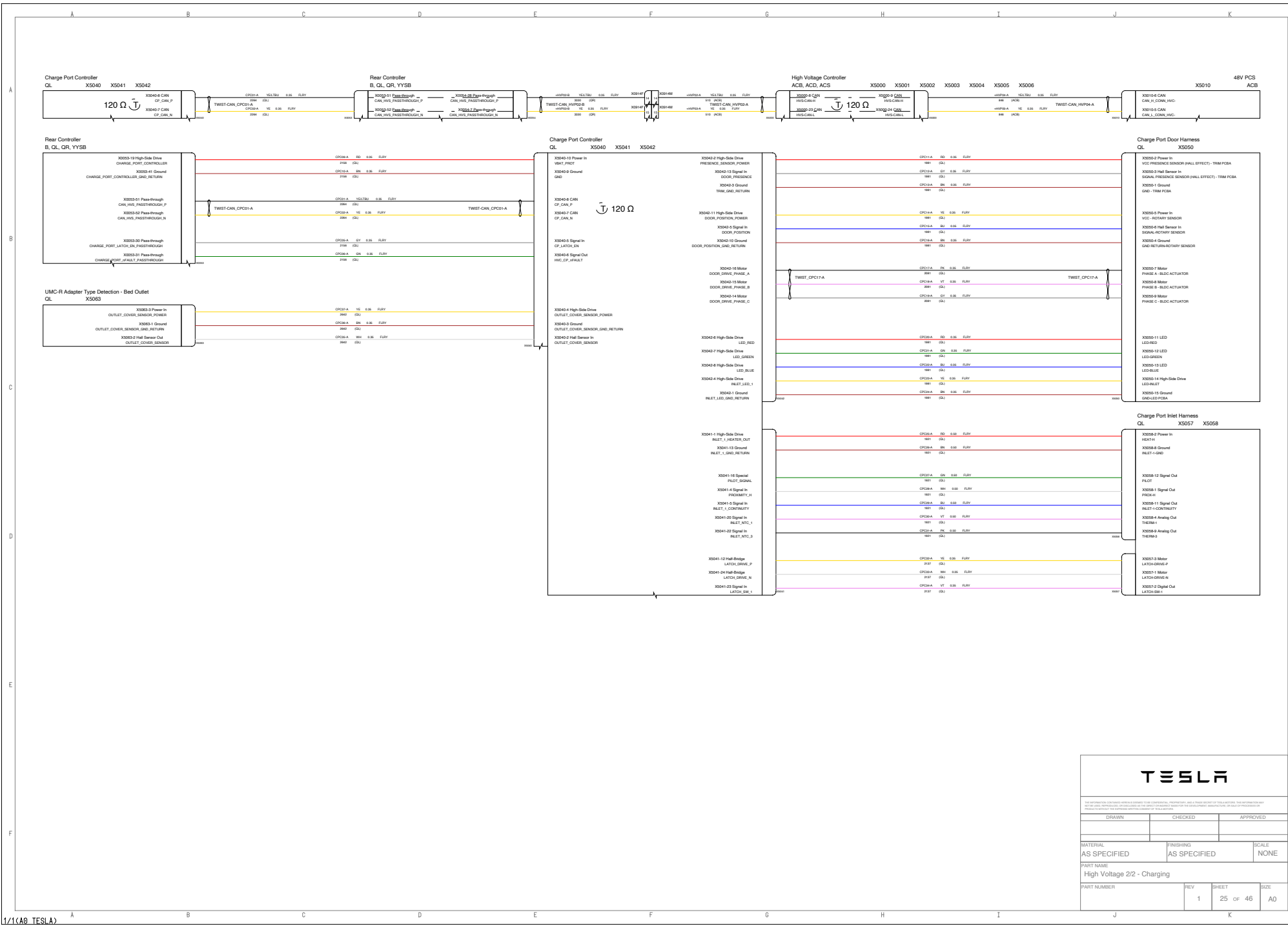


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DRAWN	CHECKED	APPROVED
MATERIAL AS SPECIFIED	FINISHING AS SPECIFIED	SCALE NONE
PART NAME Grounding 1/2 - Side Assemblies and Cabin Floor		
PART NUMBER	REV 1	SHEET 22 OF 46
		SIZE A0



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DRAWN	CHECKED	APPROVED	
MATERIAL AS SPECIFIED		FINISHING AS SPECIFIED	SCALE NONE
PART NAME Grounding 2/2 - Bed			
PART NUMBER	REV 1	SHEET 23 OF 46	SIZE A0





Left Controller
J, ML, SBW, V, WL

X2015-02 Serial
FRUNK_ACCESS_POST
X2015-18 Ground
FRUNK_ACCESS_POST_GND_RETURN

X2015-8 Analog In
FRUNK_EXTENDER_SWITCH
X2015-51 Ground
FRUNK_EXTENDER_SWITCH_GND_RETURN

X2015-68 High-Side Drive
FRUNK_EMERGENCY_RELEASE_SWITCH_LED
X2015-76 Ground
FRUNK_EMERGENCY_RELEASE_SWITCH_GND_RETURN
X2015-3 Analog In
FRUNK_EMERGENCY_RELEASE_SWITCH

X2015-7 Analog In
FRUNK_LATCH_SWITCH_PANEL
X2015-6 Analog In
FRUNK_LATCH_SWITCH_PANEL_PANEL_OPEN
X2015-5 Analog In
FRUNK_LATCH_SWITCH_ALARM_1
X2015-18 Analog In
FRUNK_LATCH_SWITCH_ALARM_2
X2015-76 Ground
FRUNK_LATCH_SWITCH_GND_RETURN

X2015-44 Half-Bridge
FRUNK_LATCH_PHASE_A
X2015-45 Half-Bridge
FRUNK_LATCH_PHASE_B
X2015-4 Digital In
FRUNK_LATCH_HOME_SWITCH
X2015-27 Ground
FRUNK_LATCH_HOME_SWITCH_GND_RETURN

X2015-80 Half-Bridge
FRUNK_STRUT_PHASE_A
X2015-81 Half-Bridge
FRUNK_STRUT_PHASE_B

X2015-41 High-Side Drive
FRUNK_STRUT_ENCODER_SW
X2015-44 PWM In
FRUNK_STRUT_ENCODER_A
X2015-45 PWM In
FRUNK_STRUT_ENCODER_B
X2015-76 Ground
FRUNK_STRUT_ENCODER_GND_RETURN

Right Controller
B, CO, H, J, JH, MRL, V, WR

X2027-43 Half-Bridge
FRUNK_STRUT_PHASE_B
X2027-44 Half-Bridge
FRUNK_STRUT_PHASE_A

X2027-51 High-Side Drive
FRUNK_STRUT_SW
X2027-49 PWM In
FRUNK_STRUT_ENCODER_A
X2027-46 PWM In
FRUNK_STRUT_ENCODER_B
X2027-57 Ground
FRUNK_STRUT_ENCODER_GND_RETURN

L7730-A BU 0.35 FLRY
1491 (M1)

L7730-A BN 0.35 FLRY
1491 (M1)

L7730-A BY 0.35 FLRY
1474 (M1)

L7730-A BN 0.35 FLRY
1474 (M1)

L7731-A VC 0.35 FLRY
1490 (M1)

L7730-A BN 0.35 FLRY
1490 (M1)

L7730-A BU 0.35 FLRY
1490 (M1)

L7730-A RD 0.35 FLRY
1491 (M1)

L7731-A VT 0.35 FLRY
1491 (M1)

L7730-A VC 0.35 FLRY
1491 (M1)

L7730-A BU 0.35 FLRY
1491 (M1)

L7731-A BN 0.35 FLRY
1491 (M1)

L7730-A RD 0.35 FLRY
1740 (M1)

L7730-A VC 0.35 FLRY
1740 (M1)

L7731-A WH 0.35 FLRY
1499 (M1)

L7730-A BN 0.35 FLRY
1499 (M1)

L7730-A RD00 0.35 FLRY
1508 (M1)

L7731-A VSD1 0.35 FLRY
1508 (M1)

L7730-A WH 0.35 FLRY
863 (M1)

L7730-A BU 0.35 FLRY
863 (M1)

L7730-A VSD1 0.35 FLRY
863 (M1)

L7730-A WH 0.35 FLRY
863 (M1)

L7730-A BU 0.35 FLRY
863 (M1)

L7730-A VT 0.35 FLRY
863 (M1)

L7731-A BN 0.35 FLRY
863 (M1)

Frunk Access Post
WL X2147 X2148

X2147-1 Power In
Power
X2148-1 Ground
Ground

Exterior Power Frunk Button
L X2144

X2144-2 Signal Out
Status Normally Open
X2144-1 Ground
Switch Ground

Frunk Internal LED / Emergency Release Switch
WL X2138

X2138-3 Power In
Illumination
X2138-2 Ground
GND
X2138-1 Signal Out
REL SW

Frunk Latch - Switch
WL X2135

X2135-1 Signal Out
FANEL SWITCH
X2135-3 Signal Out
FANEL SWITCH FANEL OPEN
X2135-5 Analog Out
ALARM SWITCH IN
X2135-6 Analog Out
ALARM SWITCH IN
X2135-4 Ground
GND/ALD

Frunk Latch - Clamping Actuator
WL X2132

X2132-3 Motor
Motor Clock +
X2132-4 Motor
Motor Release +
X2132-2 Signal Out
Home Switch
X2132-1 Ground
Switch Ground

Frunk Power Strut - Left
WL X2104

X2104-1 Motor
Motor Power Open/Extension
X2104-3 Motor
Motor Power Close/Retract
X2104-2 Power In
Half Sensor Power Supply
X2104-5 Signal Out
Half Signal Output IN
X2104-4 Signal Out
Half Signal Output IN
X2104-6 Ground
Half Sensor Ground

Frunk Power Strut - Right
WR X2105

X2105-1 Motor
Motor Power Open/Extension
X2105-3 Motor
Motor Power Close/Retract
X2105-2 Power In
Half Sensor Power Supply
X2105-5 Signal Out
Half Signal Output IN
X2105-4 Signal Out
Half Signal Output IN
X2105-6 Ground
Half Sensor Ground

TESLA

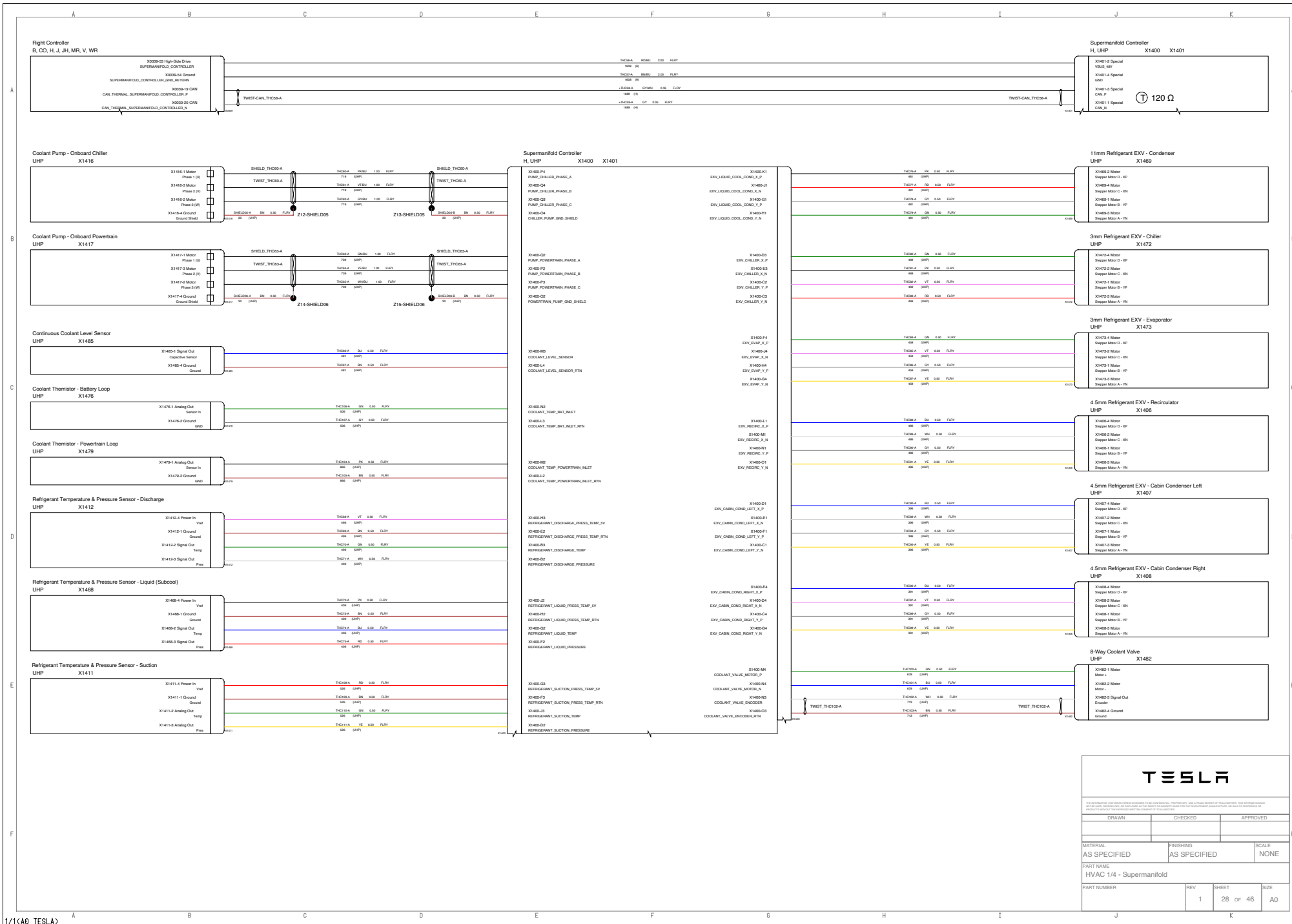
Product without the company name is void of the warranty

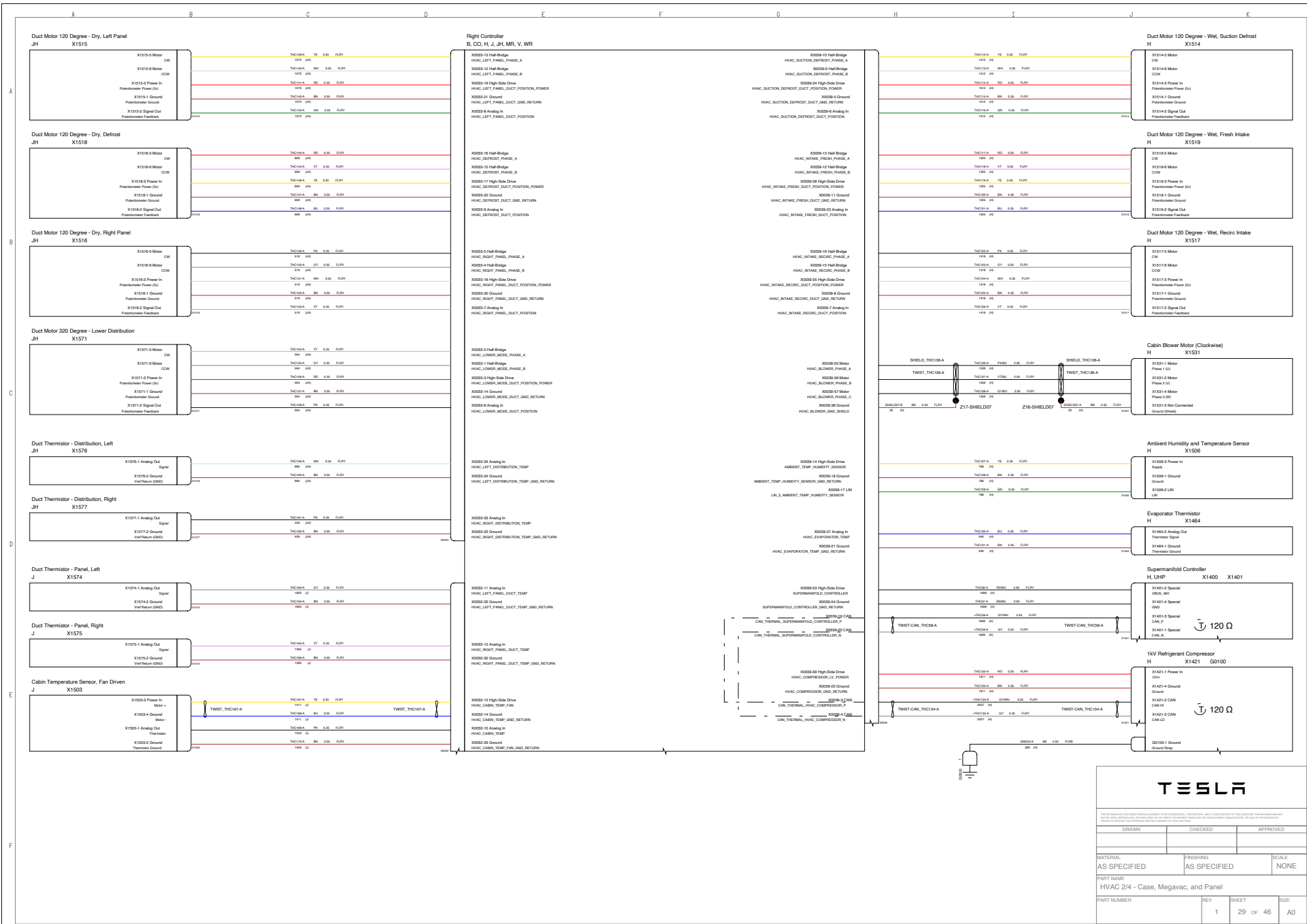
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PART NAME Hoods and Tailgate 1/2 - Front					
PART NUMBER		REV 1	SHEET 26 OF 46		SIZE A0



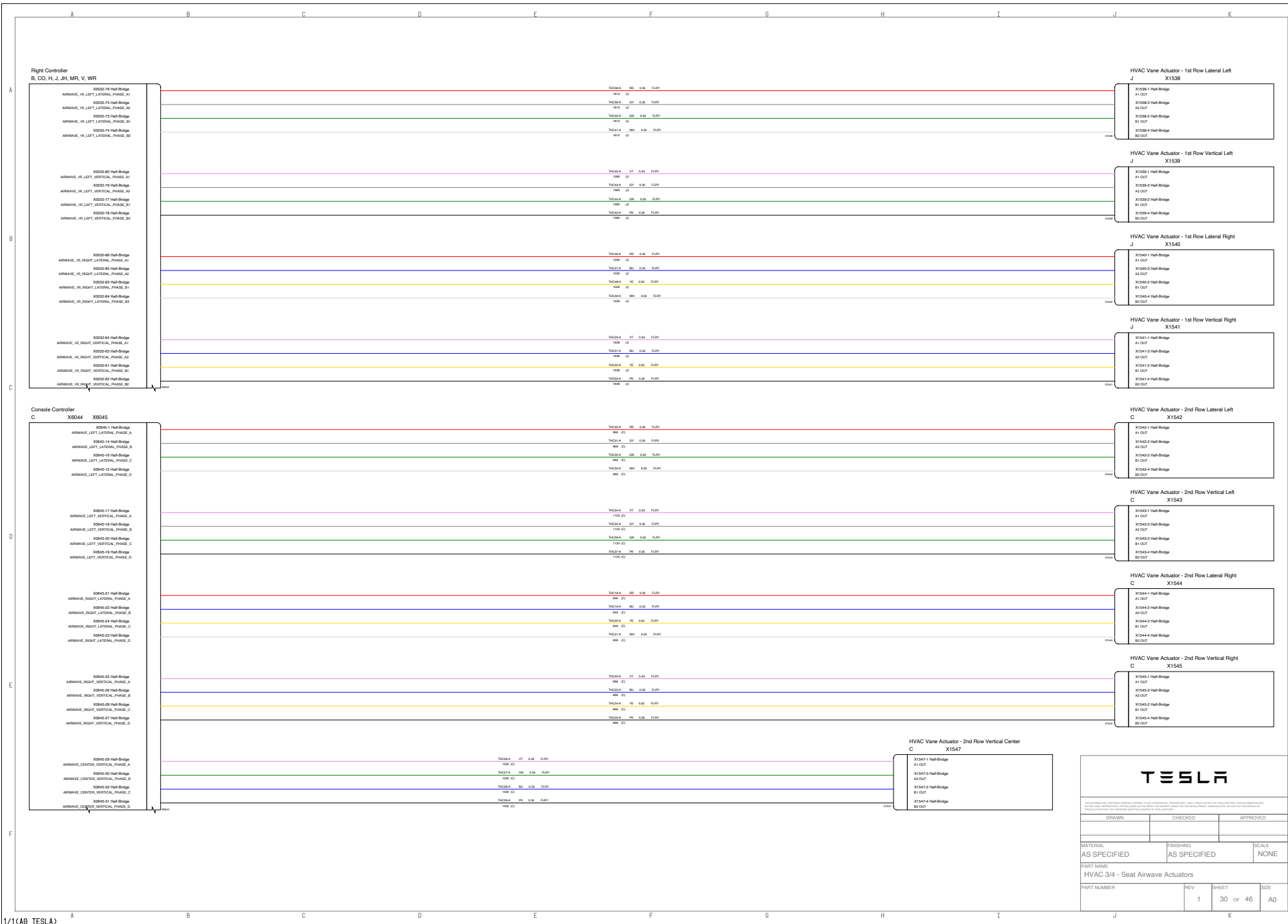
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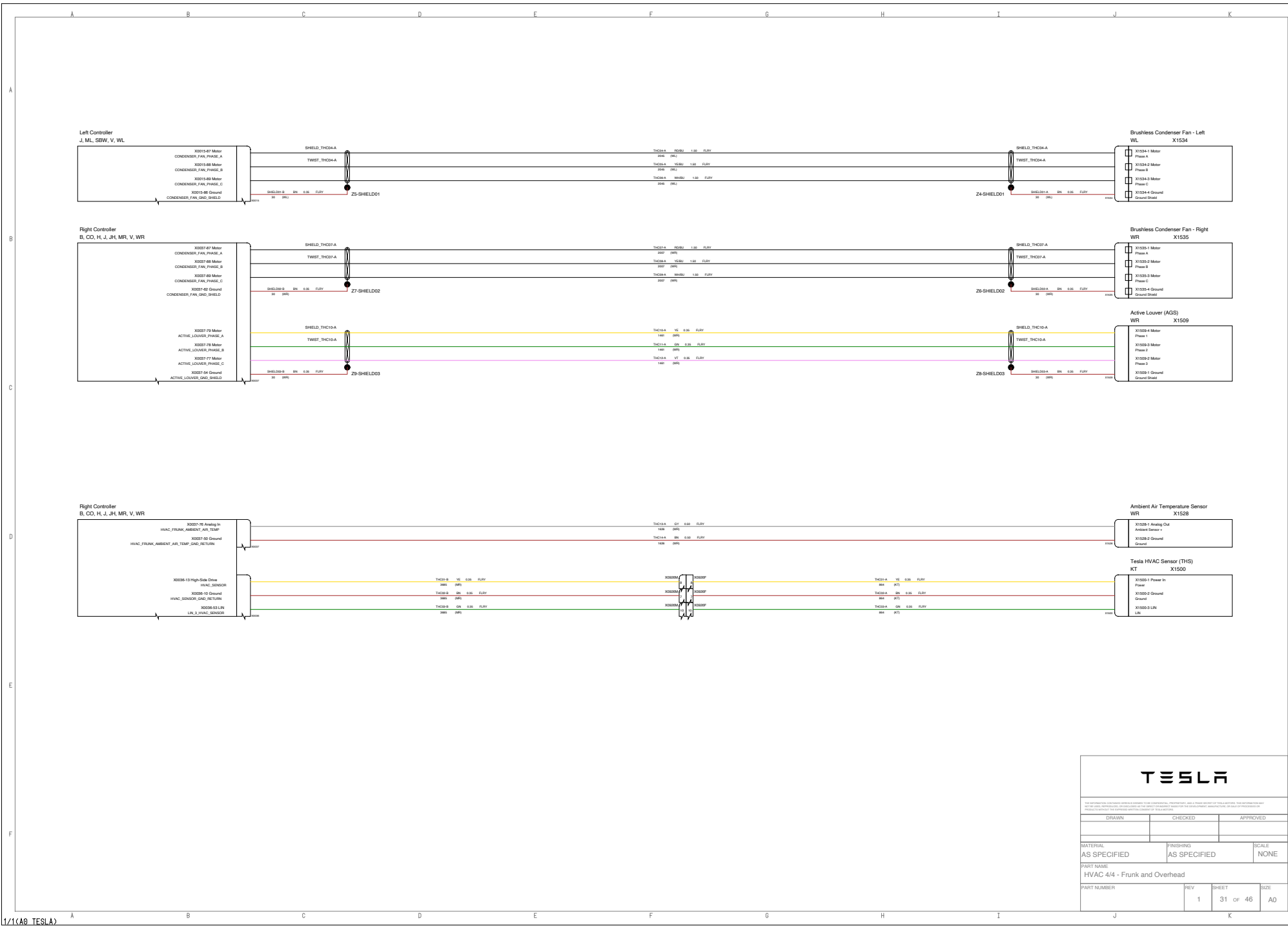
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DRAWN				CHECKED				APPROVED					
MATERIAL						FINISHING						SCALE	
AS SPECIFIED						AS SPECIFIED						NONE	
PART NAME													
Hoods and Tailgate 2/2 - Rear													
PART NUMBER				REV		SHEET				SIZE			
				1		27 OF 46				A0			





TESLA			
DRAWN			
CHECKED			
APPROVED			
MATERIAL AS SPECIFIED		FINISHING AS SPECIFIED	
SCALE NONE		SCALE NONE	
PART NAME HVAC 2/4 - Case, Megavac, and Panel			
PART NUMBER		REV 1	SHEET 29 OF 46
SIZE A0			





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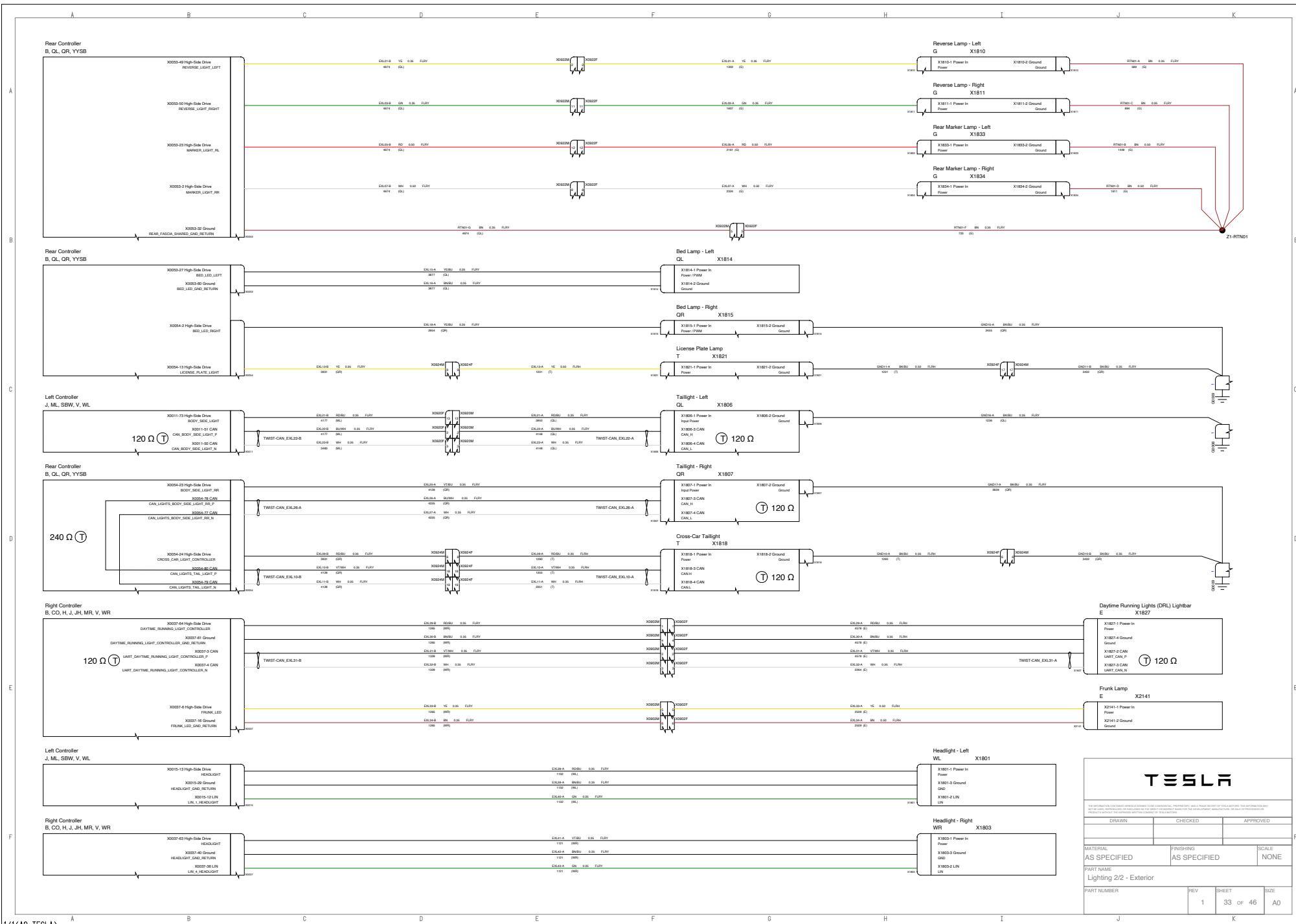
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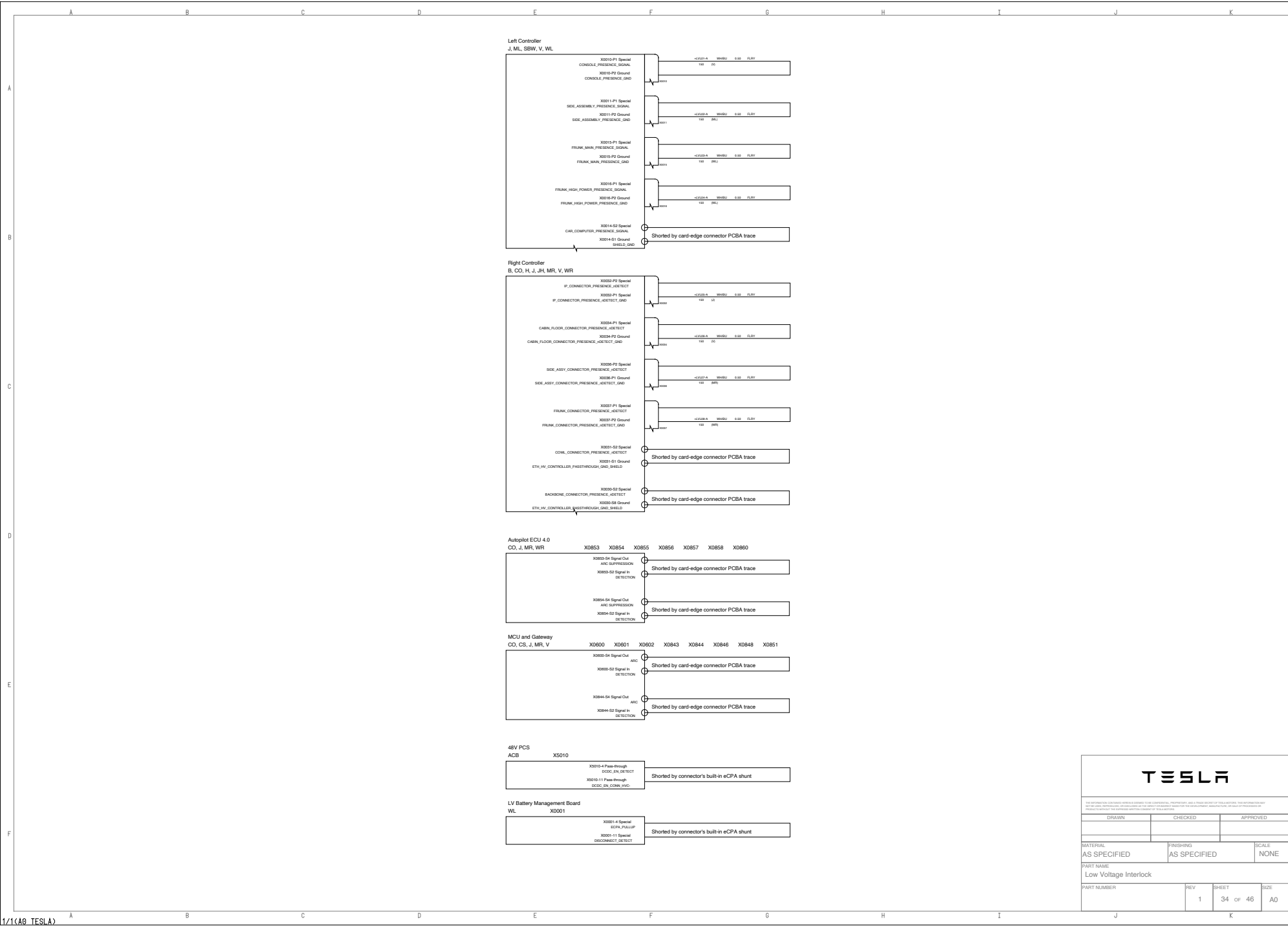
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AS SPECIFIED AS SPECIFIED NONE

PART NAME: []
HVAC 4/4 - Frunk and Overhead

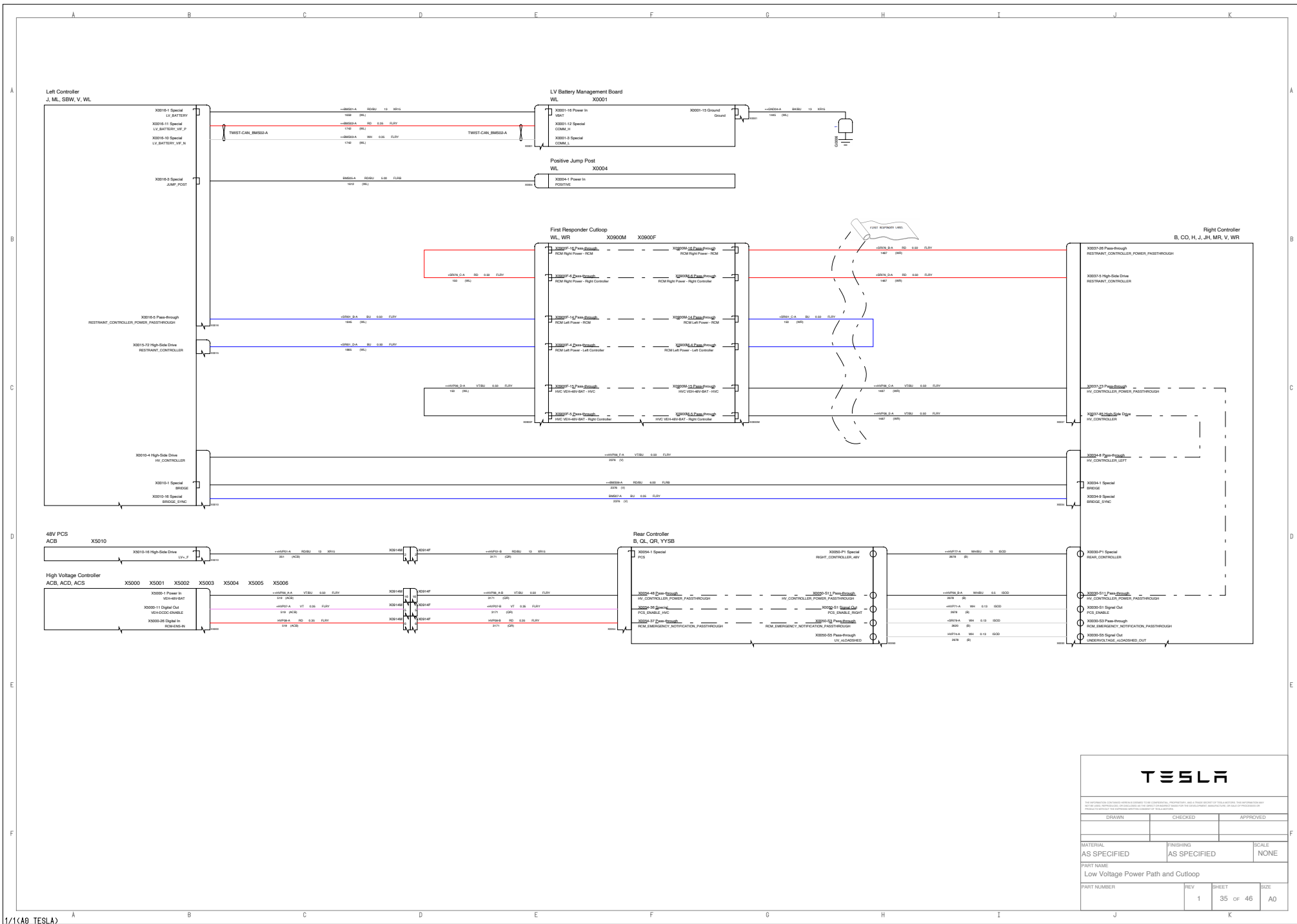
PART NUMBER: [] REV: [] SHEET: [] SIZE: []
1 31 OF 46 A0

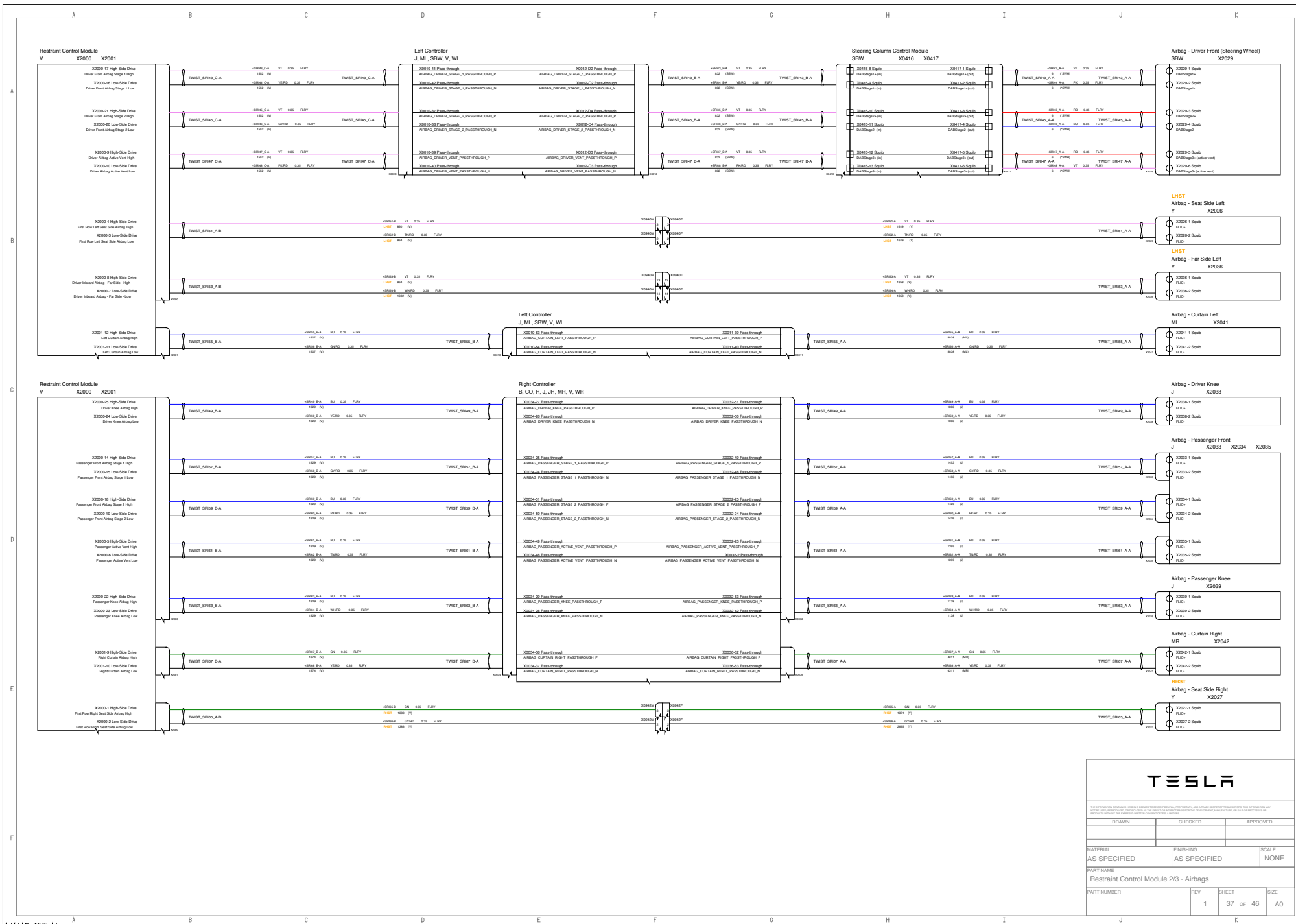


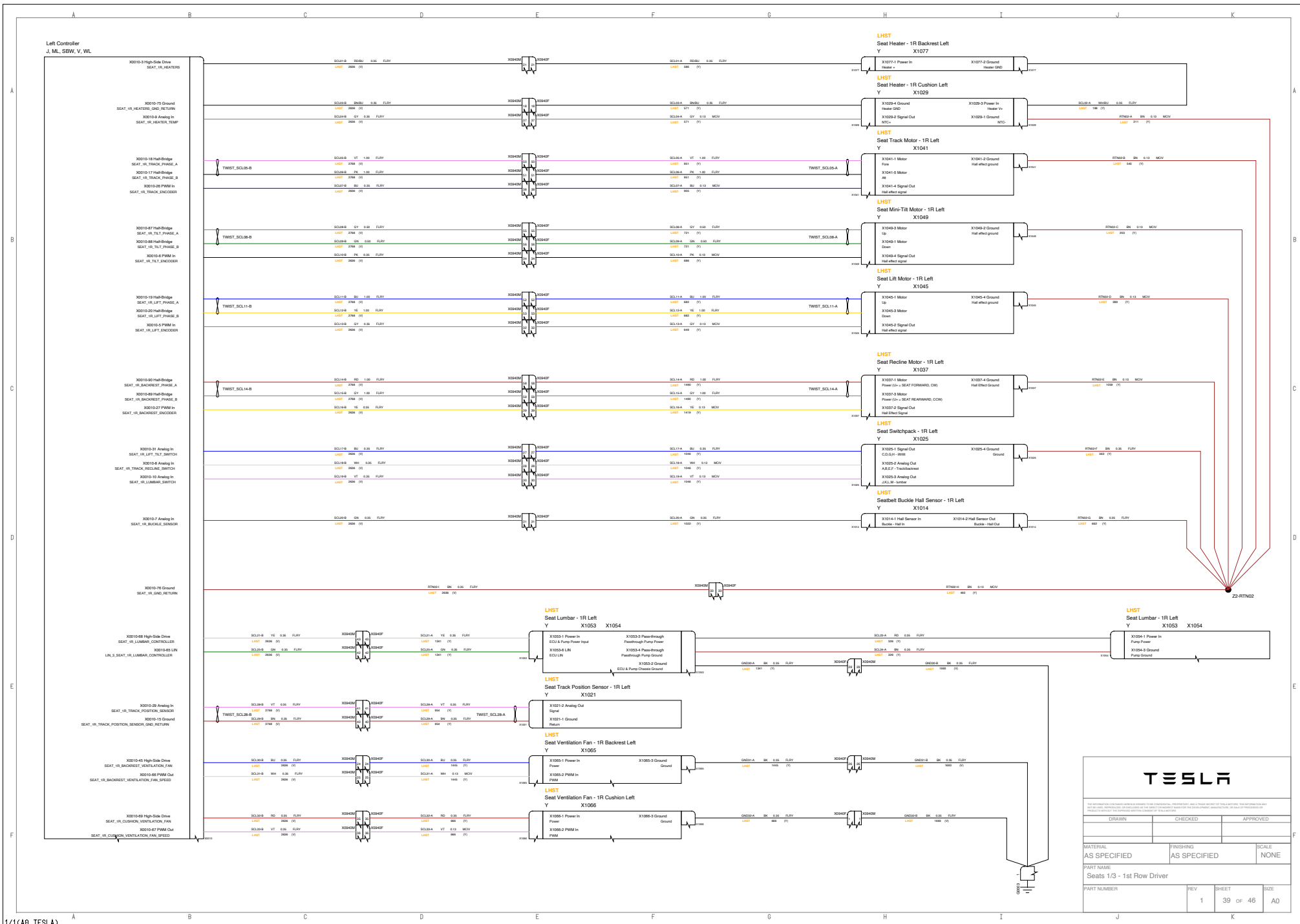


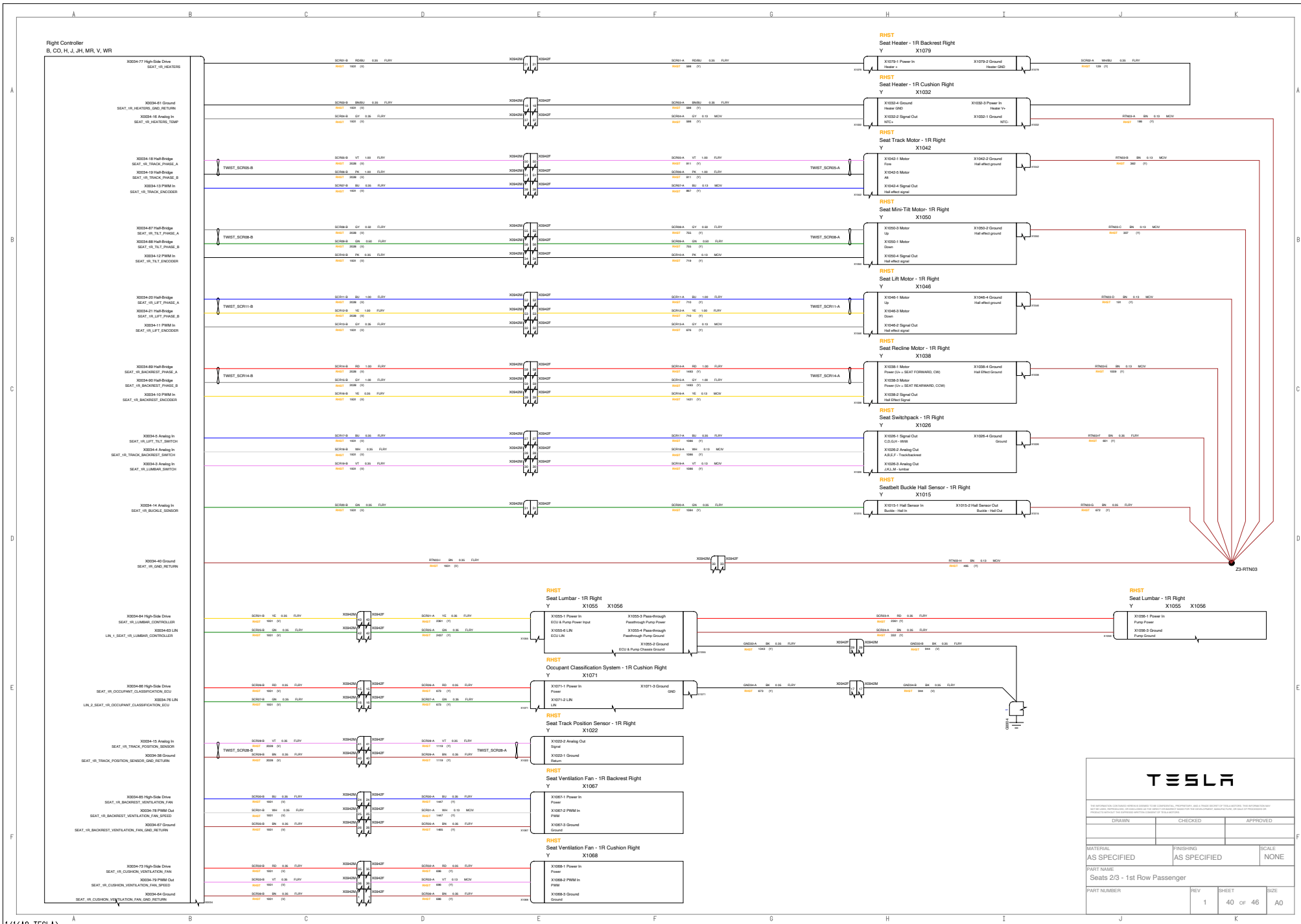


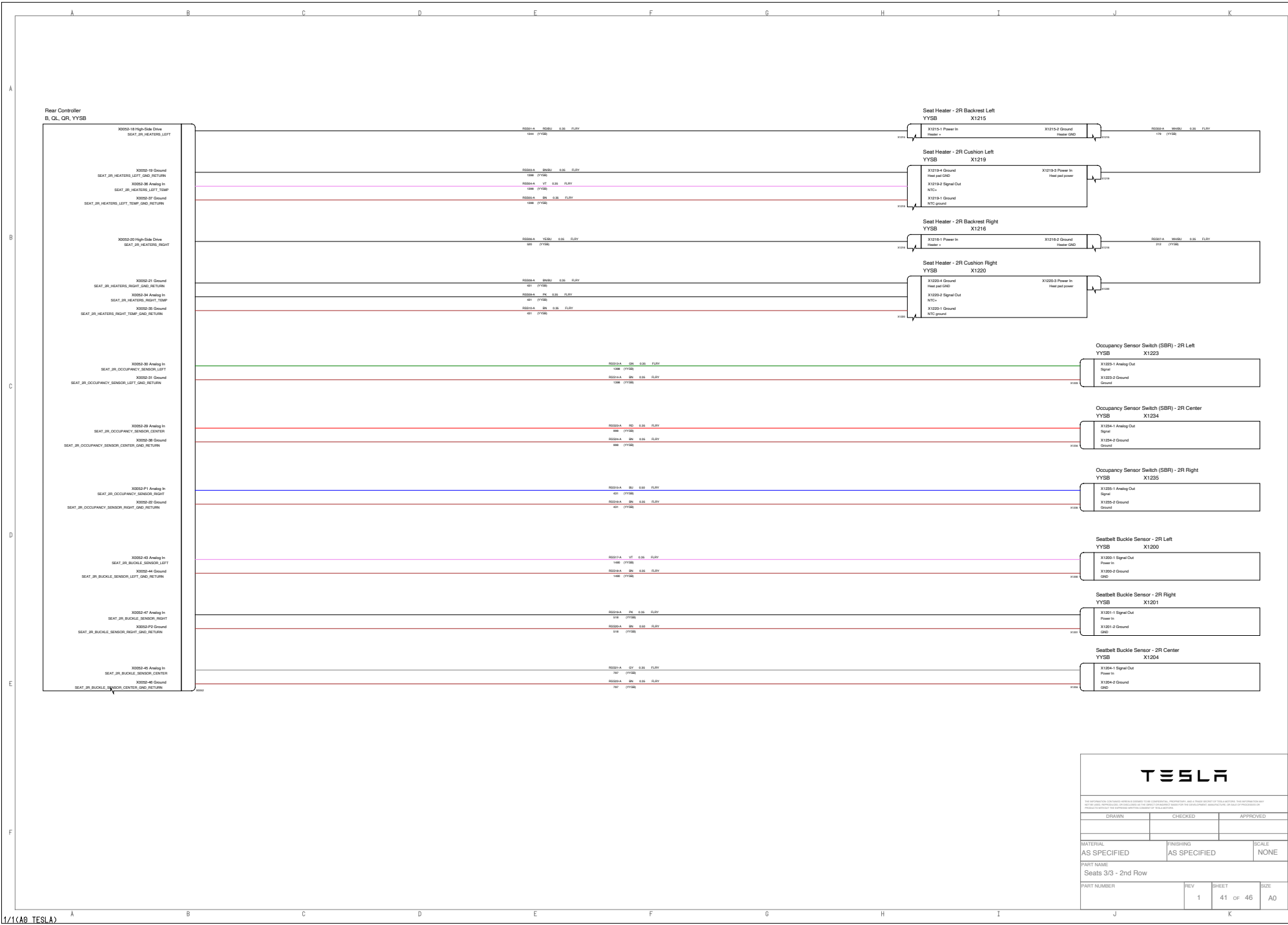
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DRAWN	CHECKED	APPROVED	
MATERIAL AS SPECIFIED		FINISHING AS SPECIFIED	SCALE NONE
PART NAME Low Voltage Interlock			
PART NUMBER	REV 1	SHEET 34 OF 46	SIZE A0



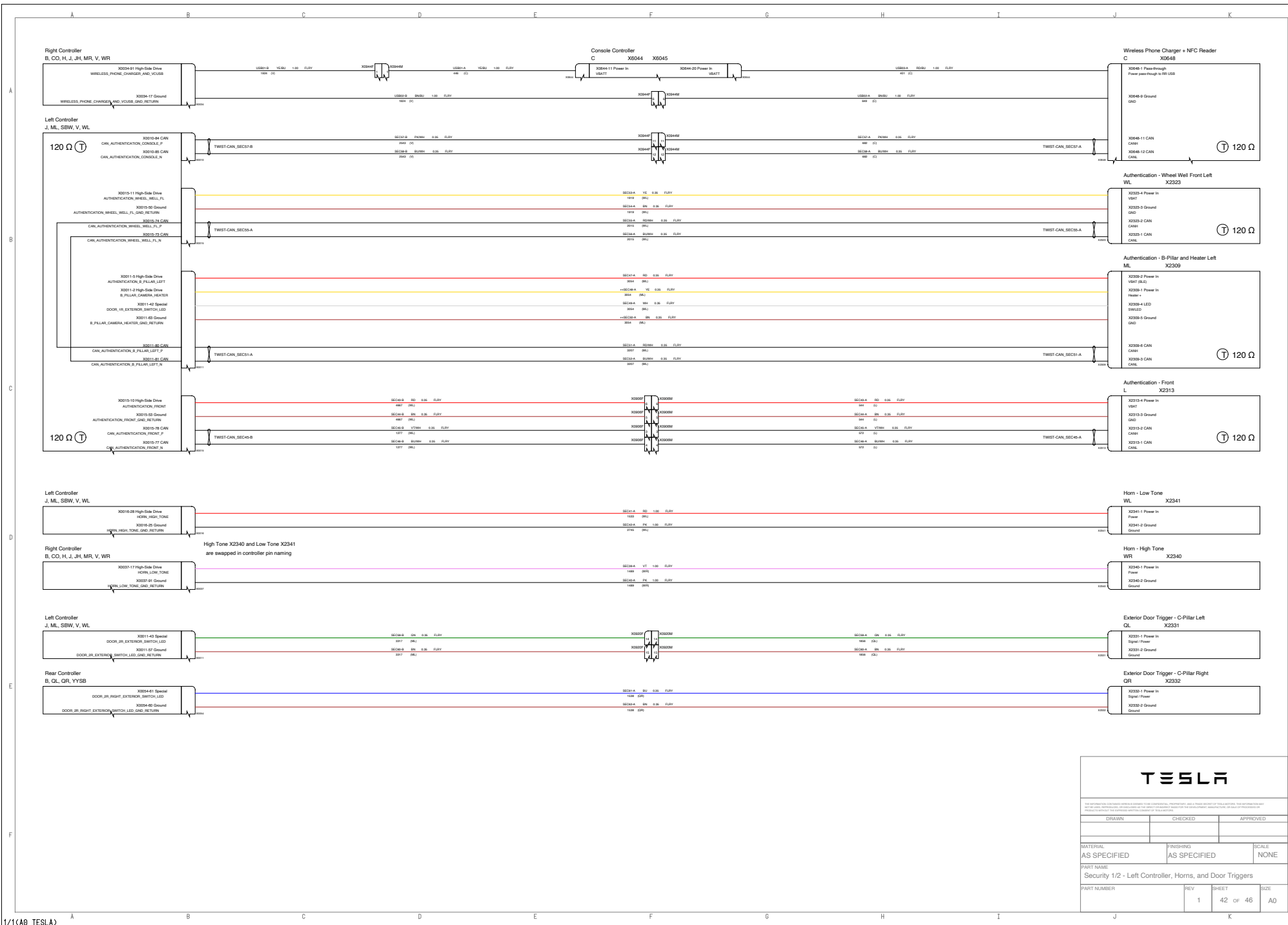








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DRAWN	CHECKED	APPROVED	
MATERIAL AS SPECIFIED	FINISHING AS SPECIFIED	SCALE NONE	
PART NAME Seats 3/3 - 2nd Row			
PART NUMBER	REV 1	SHEET 41 OF 46	SIZE A0



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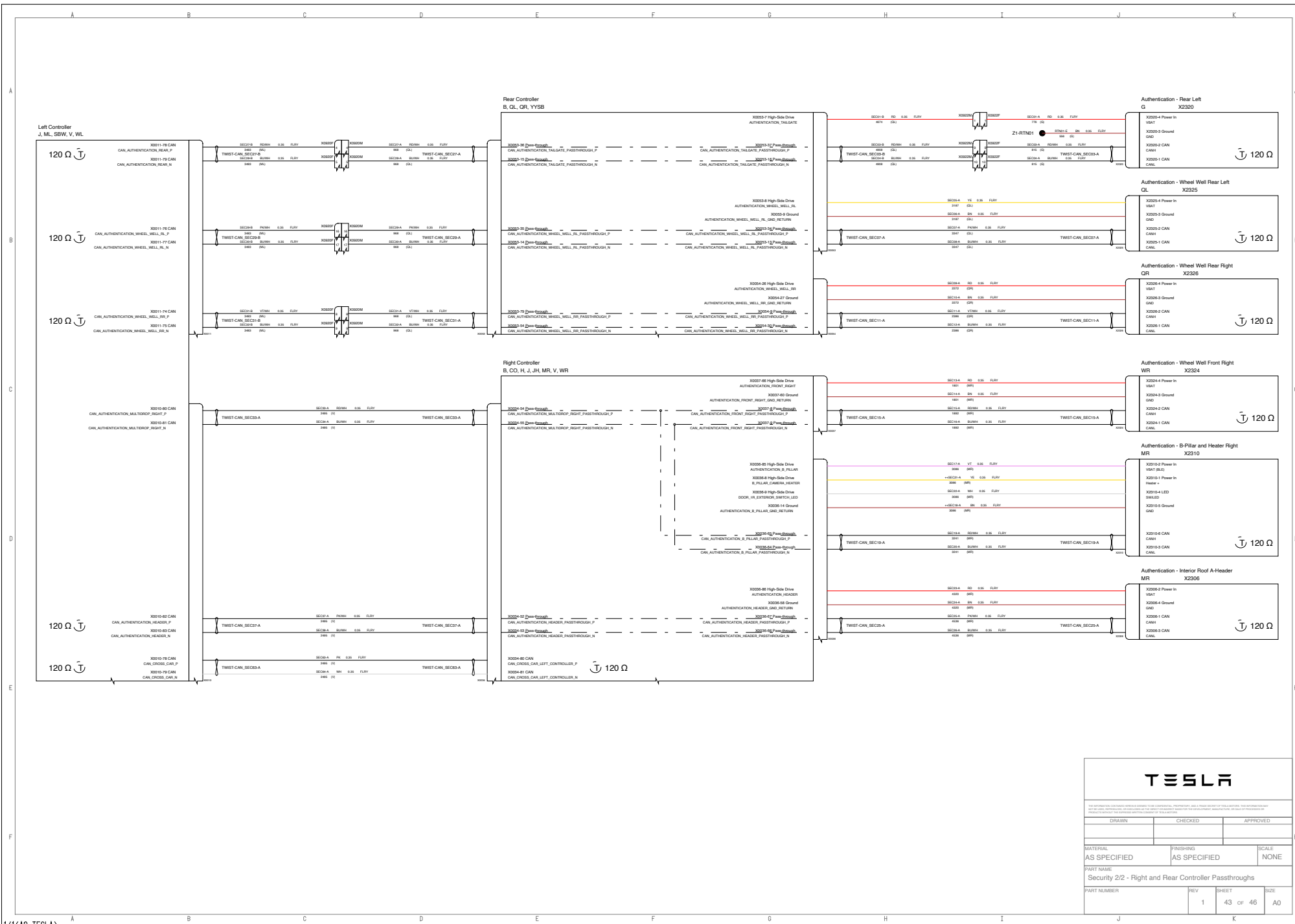
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DRAWN	CHECKED	APPROVED

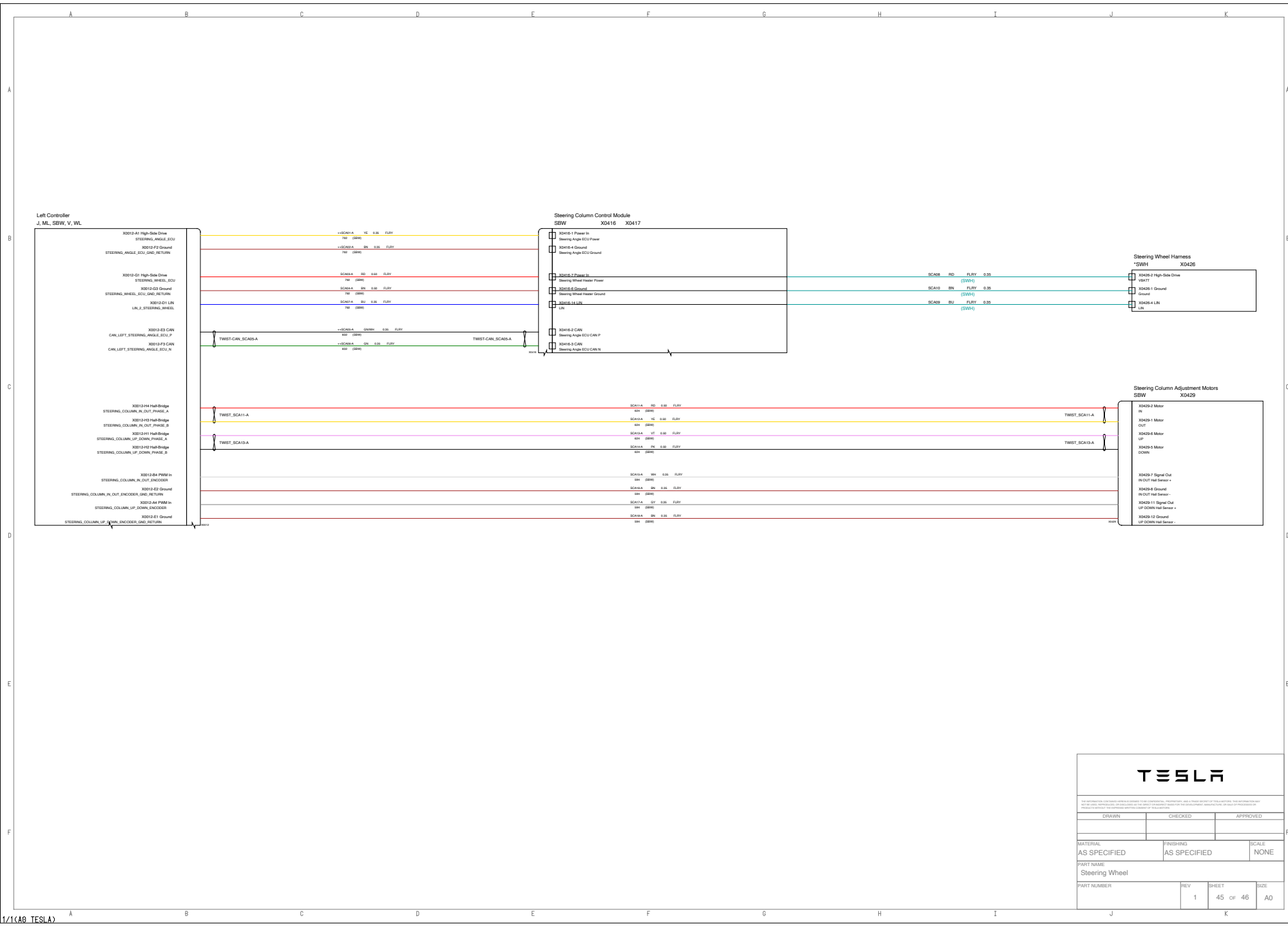
MATERIAL AS SPECIFIED	FINISHING AS SPECIFIED	SCALE NONE

PART NAME
Security 1/2 - Left Controller, Horns, and Door Triggers

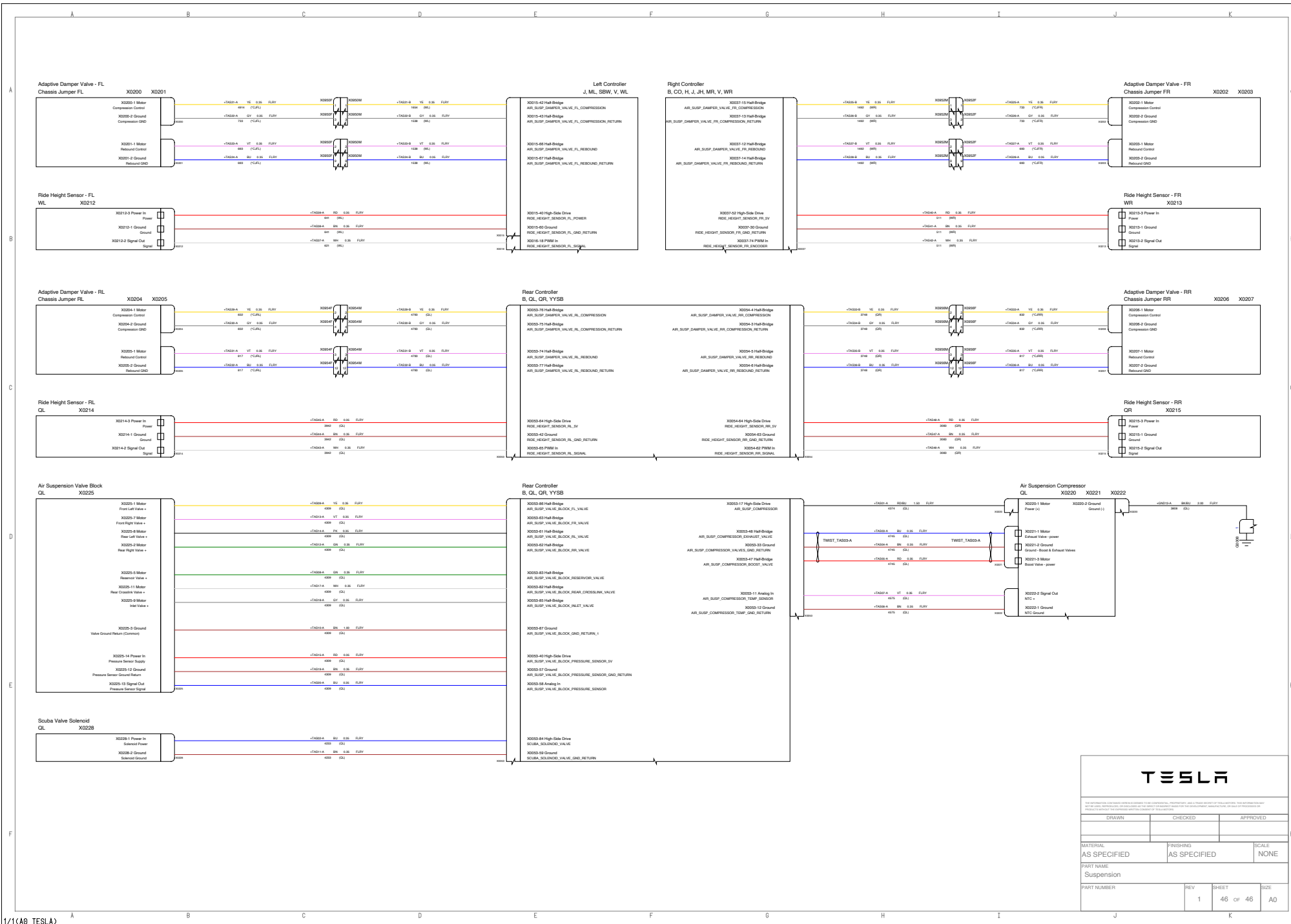
PART NUMBER	REV	SHEET	SIZE
	1	42 OF 46	A0



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DRAWN	CHECKED	APPROVED	
MATERIAL AS SPECIFIED		FINISHING AS SPECIFIED	SCALE NONE
PART NAME Security 2/2 - Right and Rear Controller Passthroughs			
PART NUMBER	REV	SHEET	SIZE
	1	43 OF 46	A0



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DRAWN	CHECKED	APPROVED	
MATERIAL AS SPECIFIED		FINISHING AS SPECIFIED	SCALE NONE
PART NAME Steering Wheel			
PART NUMBER	REV 1	SHEET 45 OF 46	SIZE A0



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DRAWN			CHECKED			APPROVED		
MATERIAL			FINISHING			SCALE		
AS SPECIFIED			AS SPECIFIED			NONE		
PART NAME								
Suspension								
PART NUMBER			REV	SHEET	SIZE			
			1	46 OF 46	A0			