

Mobile surveillance tower

CT-2420



Parts Manual

Version 1.0

Manual part number MAN-2110

May 2026

Date	Version	Description
2026-05	1.0	First version

About the Manual

Customers should note that this manual is up to date at the time of issue but is not subject to automatic updates. Information contained in this manual may be modified or corrected without notice.

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Efficient management of your Ver-Mac equipment is possible with [Jamlogic](#).

Disclaimer

Failure to read and follow the instructions and procedures contained in this manual could result in failure of the equipment, damage and, serious injury.

The owner is responsible for the proper use and maintenance of the equipment.

Failure to properly maintain equipment can also void all guarantees.

Please work safely.

Documentation and Learning

More documentation and training are available on Ver-Mac's Web site in the [Product search](#) and [Learning Center](#) sections.

We value your opinion, please notify us of any error or omission found in our publications.



support@ver-mac.com



ver-mac.com> support

Warranty Statement

(Updated October 2023)

Our warranty applies to all equipment newly manufactured by Signalisation Ver-Mac Inc. subject to normal use for which the equipment and/or components were intended. Please find the complete warranty terms and conditions in the [Legal Mentions](#) section of our Web site.

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1 Introduction

This manual provides parts information for the CT-2420 model only, should you need to identify or replace any individual parts.

The specifications and maintenance instructions for the CT-2420 can be found in the Operation, Safety and Maintenance manual of this unit, which can be found through the [Product search](#) tool on Ver-Mac's Web site or opened by scanning the QR code located in the controller box.

1.1 Help and Support

All Ver-Mac units are identified by a serial number. Whenever you need to contact Ver-Mac Support for assistance or an inquiry, you need to provide this number. The serial number can be found on a sticker on your unit.

Our technical support team is at your service.

- Telephone: 1-888-488-7446 (SIGN)
- Email: support@ver-mac.com
- More information: [ver-mac.com> support](http://ver-mac.com>support)

When contacting support, please make sure to have the following:

- Be at the unit when contacting support.
- Make sure to bring a voltmeter.
- Have the serial number in hand.

1.2 Ordering Parts

- To make ordering a part easier, note the serial number or VIN of the equipment located on the CT-2420 frame.
- To order, phone Ver-Mac at 1-418-654-1303 or 1-888-488-7446 (SIGN).
- To order online, complete the Parts Order Request form at this address <https://www.ver-mac.com/en/contact/parts-order-request/>.

1.3 Return or Repairs

It is necessary to get a return merchandise authorization (RMA) number before any parts can be returned or sent for repair. This ensures that Ver-Mac has a record for the return and also that a shipping form is issued to you.

To have a part returned or repaired:

- 1 Note the serial number or VIN located on a sticker on the frame of your unit.
- 2 Phone Ver-Mac at 1-418-654-1303 or 1-888-488-7446 (SIGN).
- 3 Complete a RMA request on our web site at <https://www.ver-mac.com/en/contact/rma-parts-repair-request/>.

1.4 Troubleshooting

When contacting support please make sure to have the following:

- Be at the unit when contacting support.
- Make sure to bring a voltmeter.
- The serial number will be required for troubleshooting.

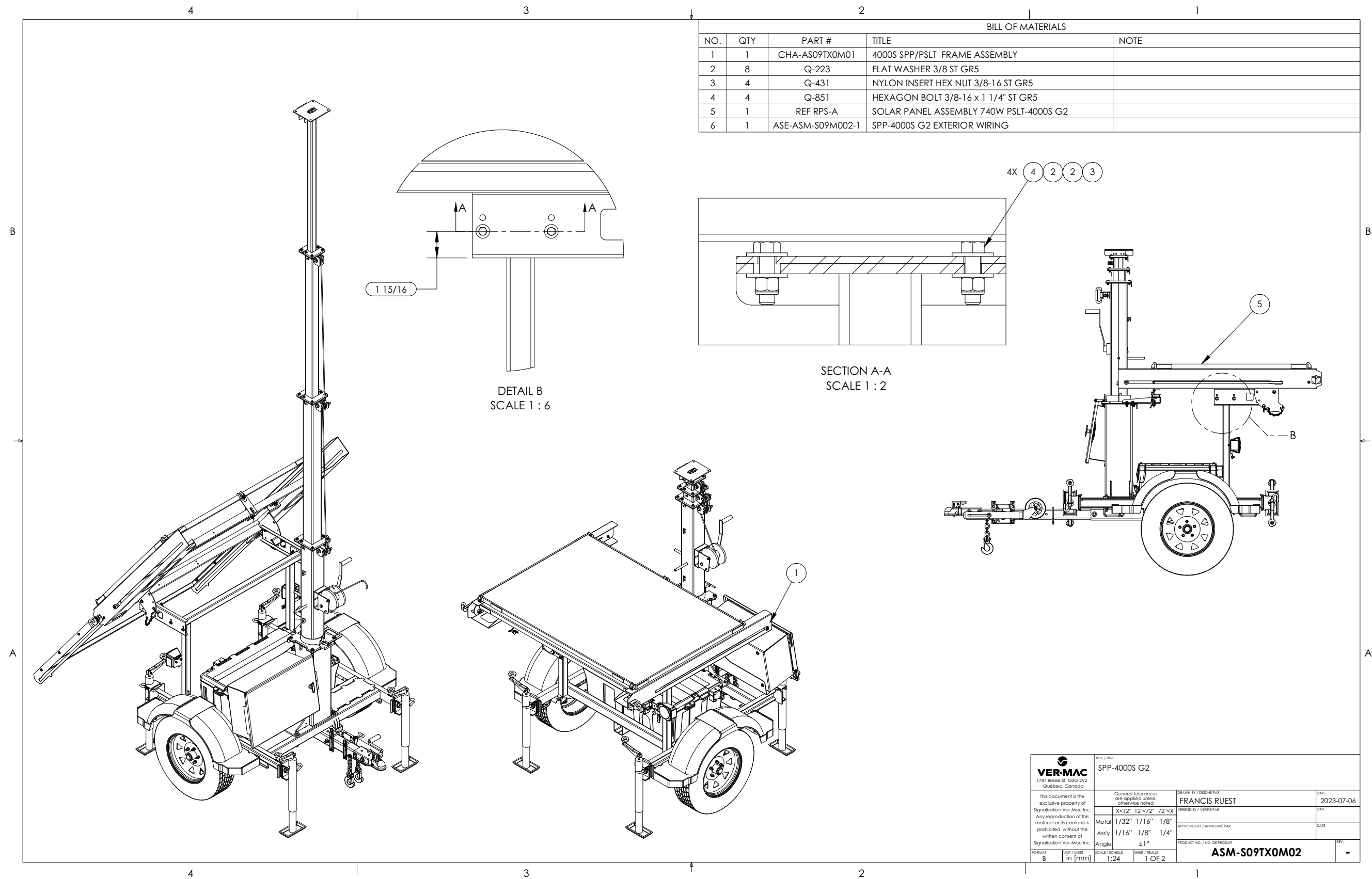




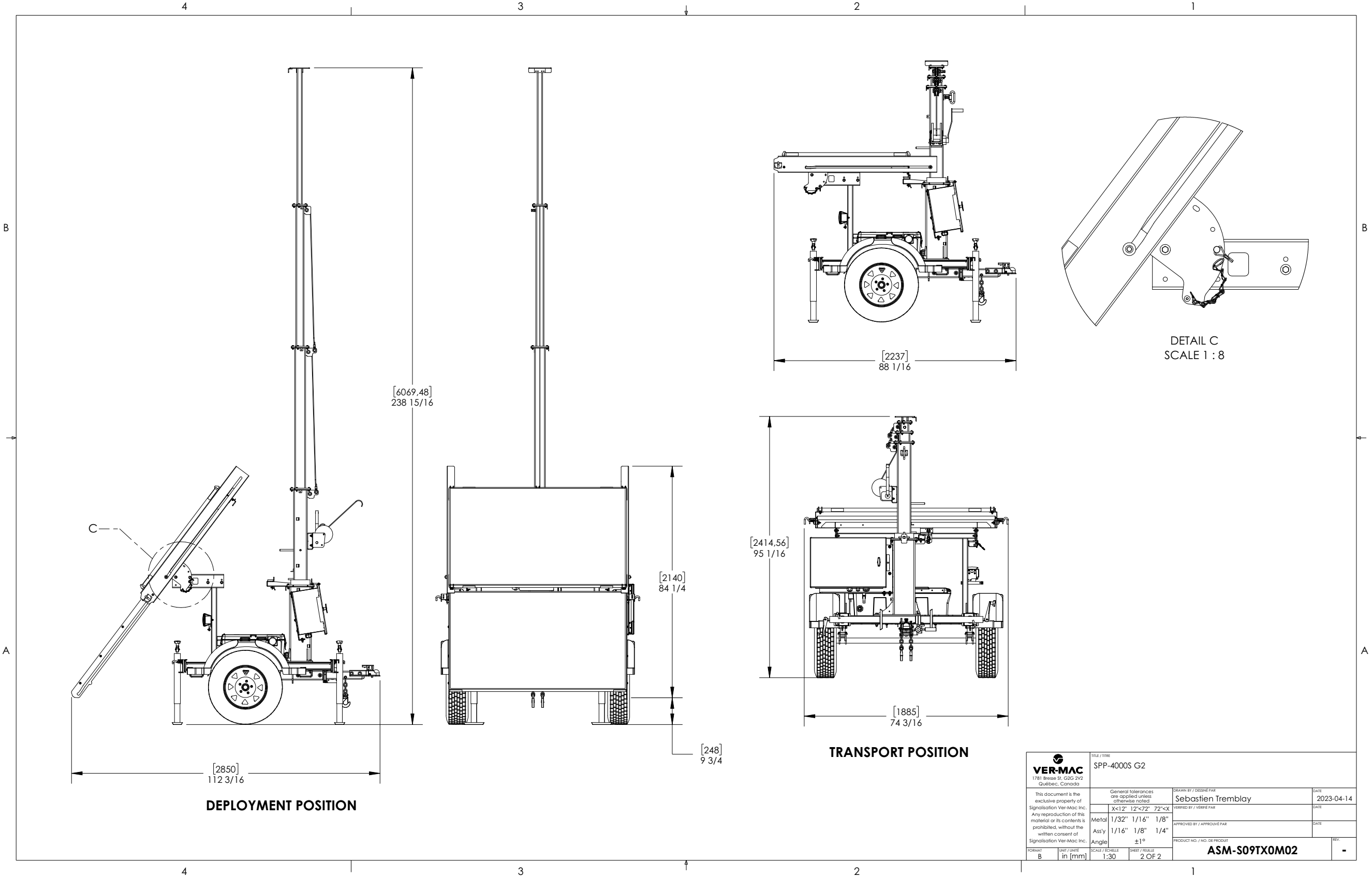
2 Mechanical Drawings

The drawings in this chapter provide reference information to replace parts, including exploded views of numbered parts as well as parts lists.

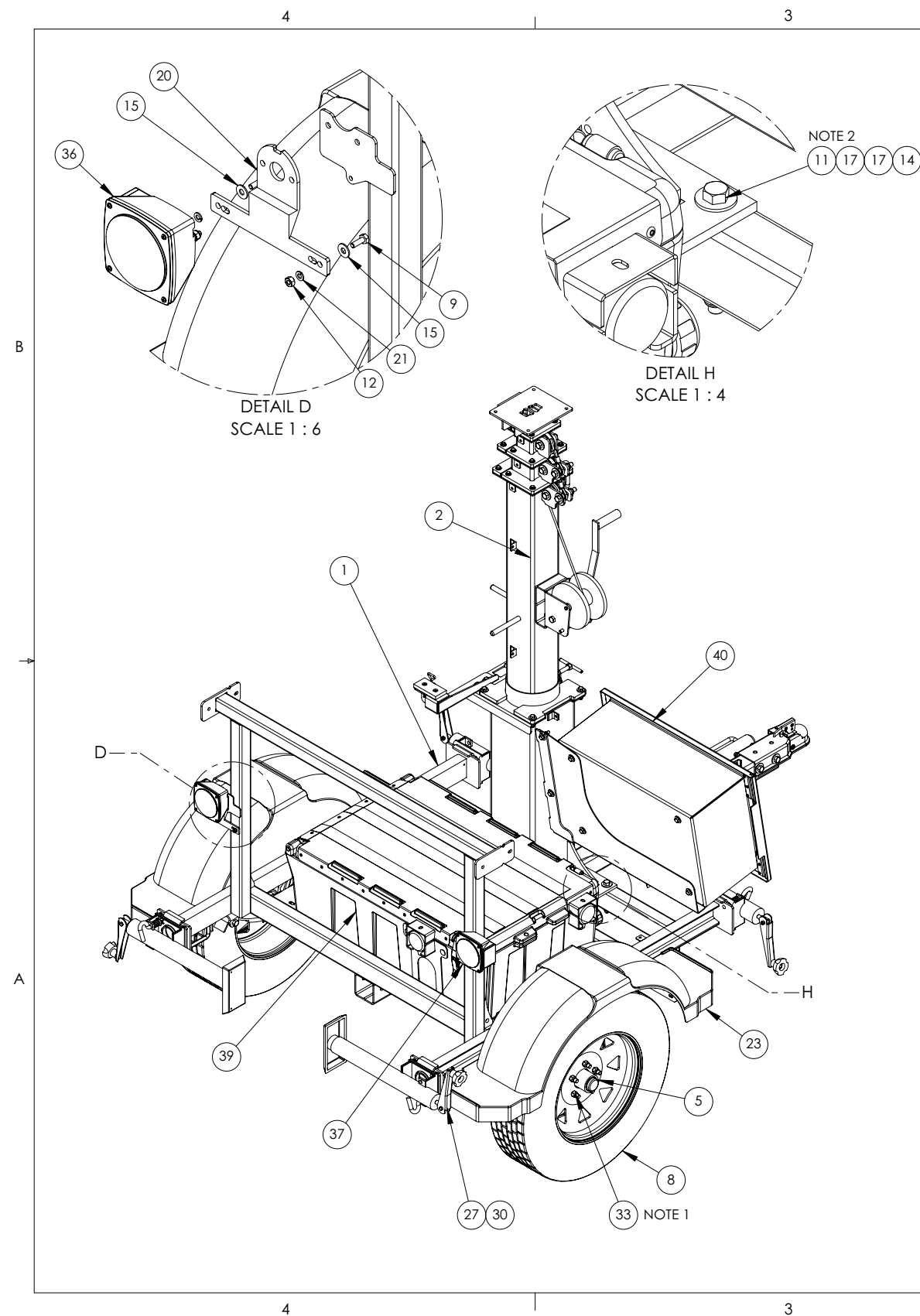
2.1 General Drawing (ASM-S09TX0M02)



2.2 General Drawing with Dimensions (ASM-S09TX0M02)



2.3 Trailer Frame (CHA-AS09TX0M01)

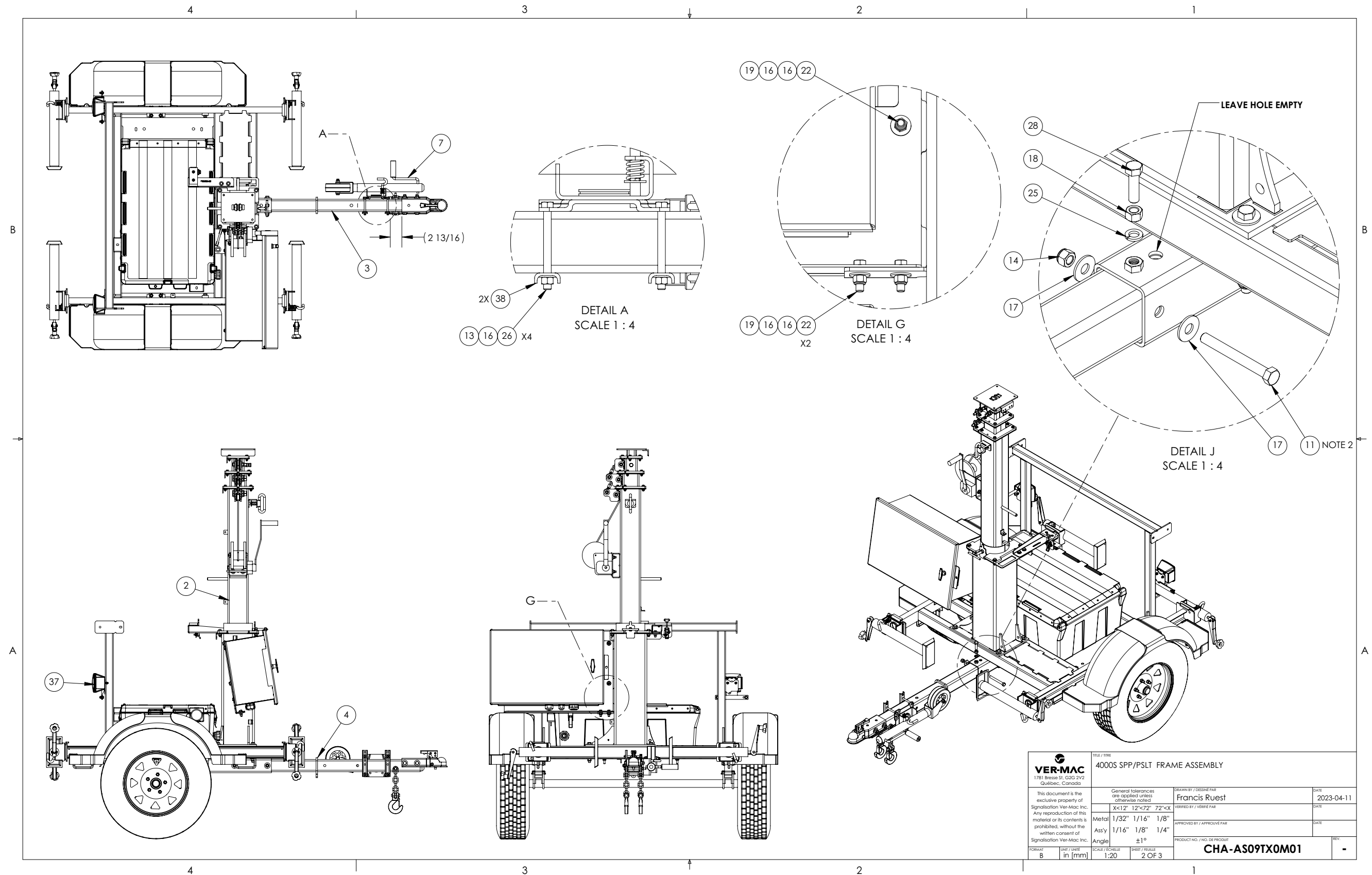


BILL OF MATERIALS				
NO.	QTY	PART #	TITLE	NOTE
1	1	CHA-SS09TX0M02	PSLT-4000S G2 WELDED FRAME ASS	
2	1	MAT-AS09T0M06	ASS. TELESCOPIC MAST PSLT-4000S	
3	1	CHA-PG06021	AFAD TONGUE ADJUSTABLE/RETRACTABLE	
4	1	CHA-PG06038	FRAME HARNESS COLLAR	
5	1	ASS-0252	AXLE 2200lb SPRING 2200lb 59"TR 48"FR STR OVER NB	
6	2	ASS-1064	CHAIN AND HOOK 5/16 PRE-CUT AT 40 3/8"	
7	1	ASS-10795	WHEEL JACK 1200 LBS - BOLT ON	
8	2	ASS-1292	RADIAL TIRE & RIM ST205-75R-15 6 PLY 5 HOLES	
9	2	Q-162	HEXAGON BOLT 1/4-20 x 3/4 ST GR5	
10	1	Q-183	HEXAGON BOLT 3/8-16 x 5" ST GR5	
11	6	Q-193	HEXAGON BOLT 1/2-13 x 4 1/2" ST GR5	
12	2	Q-433	HEX NUT 1/4-20 ST GR5	
13	4	Q-210	HEX NUT 3/8-16 ST GR5	
14	6	Q-211	NYLON INSERT HEX NUT 1/2-13 ST GR5	
15	2	Q-221	FLAT WASHER 1/4 ST GR5	
16	14	Q-223	FLAT WASHER 3/8 ST GR5	
17	12	Q-224	FLAT WASHER 1/2 ST GR5	
18	1	Q-407	HEX NUT 1/2-13 ST GR5	
19	4	Q-431	NYLON INSERT HEX NUT 3/8-16 ST GR5	
20	1	Q-684	LICENSE PLATE BRACKET	
21	2	Q-719	SPLIT LOCKWASHER 1/4 ST GR5	
22	3	Q-851	HEXAGON BOLT 3/8-16 x 1 1/4" ST GR5	
23	2	Q-913	PLASTIC FENDER	
24	2	Q-1050	SLEEVE BRONZE 9/16"ID x 11/16"OD X 1.75"	
25	1	Q-2045	SPLIT LOCKWASHER 1/2" ST GR5	
26	4	Q-9679	HEXAGON BOLT 3/8-16 x 4" ST GR5	
27	4	Q-9807	JACK 2,000 LBS 1/2 PIN CRANK ON TOP	
28	1	Q-9900	HEXAGON BOLT 1/2-13 x 1 3/4" ST GR5	
29	16	Q-9993	SCREW THREAD FORMING #14-10 X 3/4 ST	
30	4	Q-98071	RETAINING RING FOR 2000 LB JACK	
31	4	Z-4968	HINGE BOLT	
32	4	Z-4969	AXLE SUPPORT NUT	
33	10	Z-6230	WHEEL NUT 1/2	
34	1	REF ADA-A	COUPLER	
35	1	REF ASE-CHA	4000S G2 PLATFORM LIGHT HARNESS	
36	1	REF ASE-CHA	STOP AND LICENSE LIGHT	
37	1	REF ASE-CHA	STOP LIGHT	
38	2	REF ASS-10795	MOUNTING KIT (NUTS, BOLTS & BRACKETS) FOR ASS-10791	
39	1	REF BAT-B	BATT BOX INSTALLATION ON PLATEFROM G2 FOR 8 BATT	
40	1	REF BCT-A	SPP-4000S CONTROL BOX	

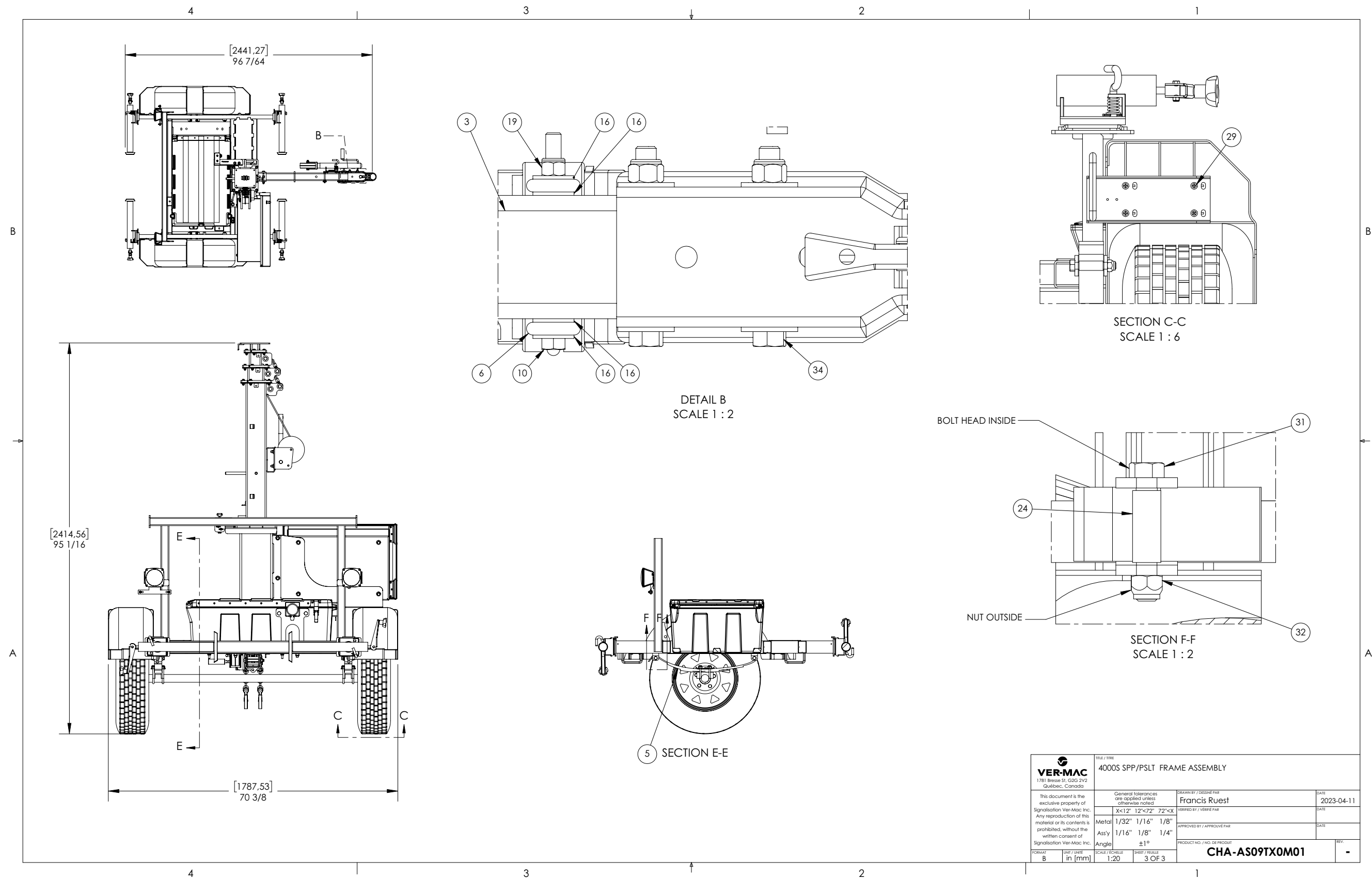
 VER-MAC 1781 Bresse St. Q2G 2V2 Québec, Canada		TITLE / TITRE 4000S SPP/PSLT FRAME ASSEMBLY		DATE 2023-04-11	
This document is the exclusive property of Signilation Ver-Mac Inc. Any reproduction of this material or its contents is prohibited, without the written consent of Signilation Ver-Mac Inc.		General tolerances are applied unless otherwise noted		DRAWN / DÉSSINÉ PAR Francis Rust	
		X<12° 12°<72° 72°<x		DATE	
Metal		1/32" 1/16" 1/8"		DATE	
Ass'y		1/16" 1/8" 1/4"		DATE	
		±1°		DATE	
PRODUCT NO. / NO. DU PRODUIT CHA-AS09TX0M01		REV.		-	
FORMAT 8	UNIT / UNITÉ (mm)	SCALE / ÉCHELLE 1:1	SHEET / FEUILLE 1 OF 3		

NOTE 1: TIGHTEN WHEEL NUTS (1/2 - 20 UNF), 90 FT-lbf (122 N.m.) TO 120 FT-lbf (163 N.m.)
NOTE 2: TIGHTEN POST & REMOVABLE TONGUE BOLTS (1/2-13 UNC) 64 FT-lbf (87 N.m.)

2.4 Details of the Trailer Frame (CHA-AS09TX0M01)(Cont'd)



2.5 Trailer Frame with Dimensions (CHA-AS09TX0M01)

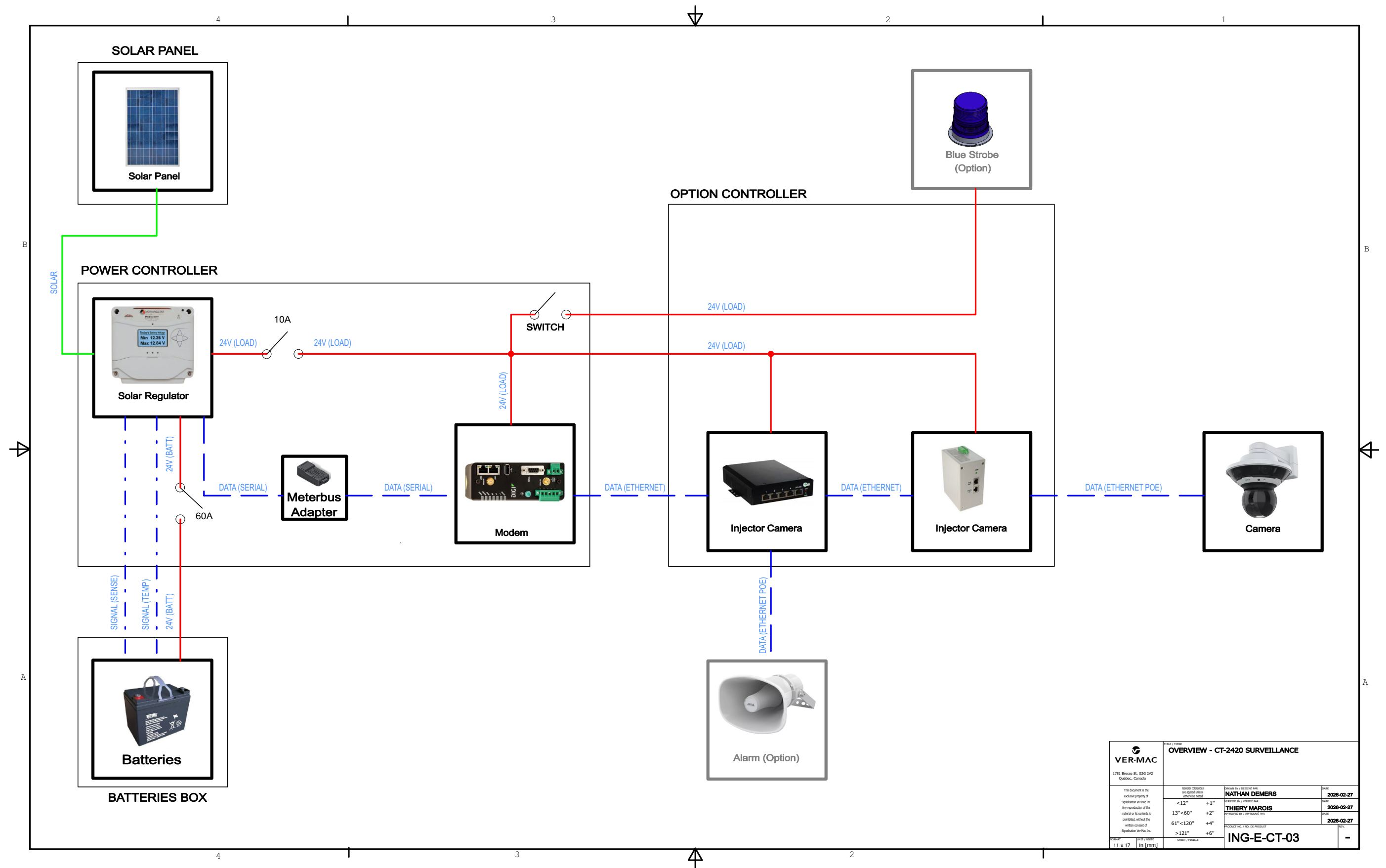




3 Electrical Drawings

The drawings in this chapter provide reference information to replace parts, including exploded views of numbered parts as well as parts lists.

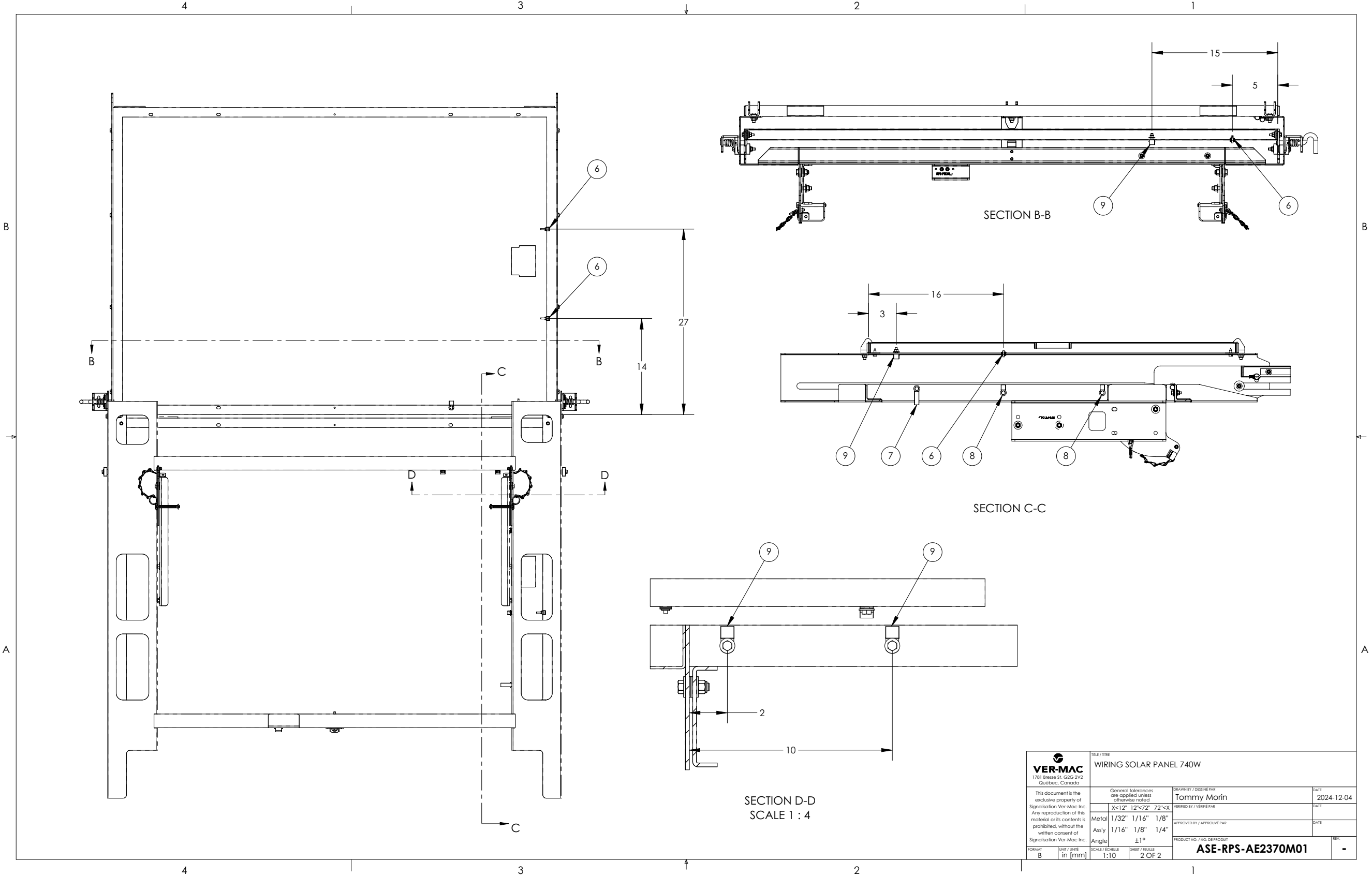
3.1 Electrical System Overview (ING-E-CT-03)



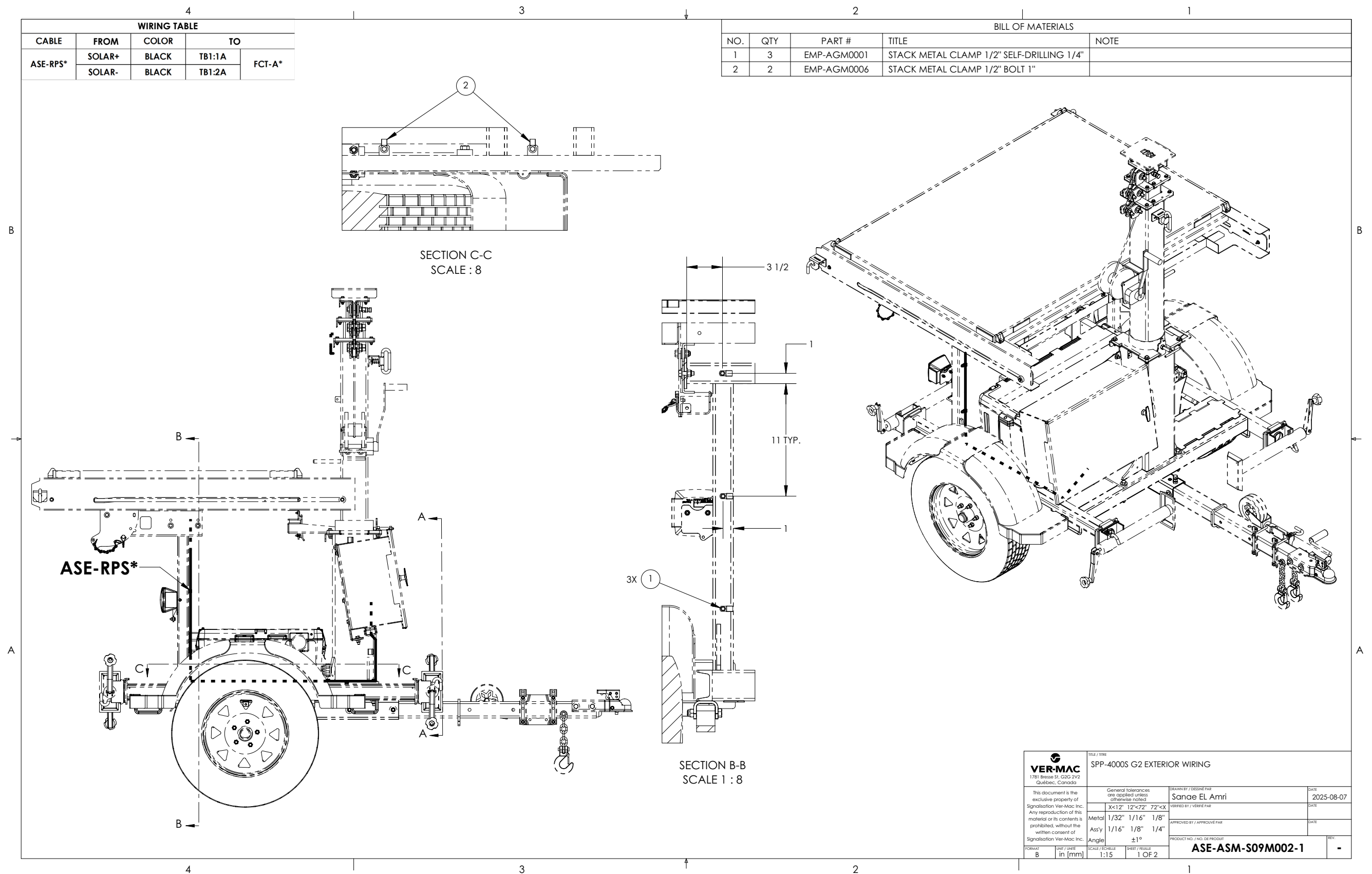
3.2 Solar Panel Wiring (ASE-RPS-AE2370M01)

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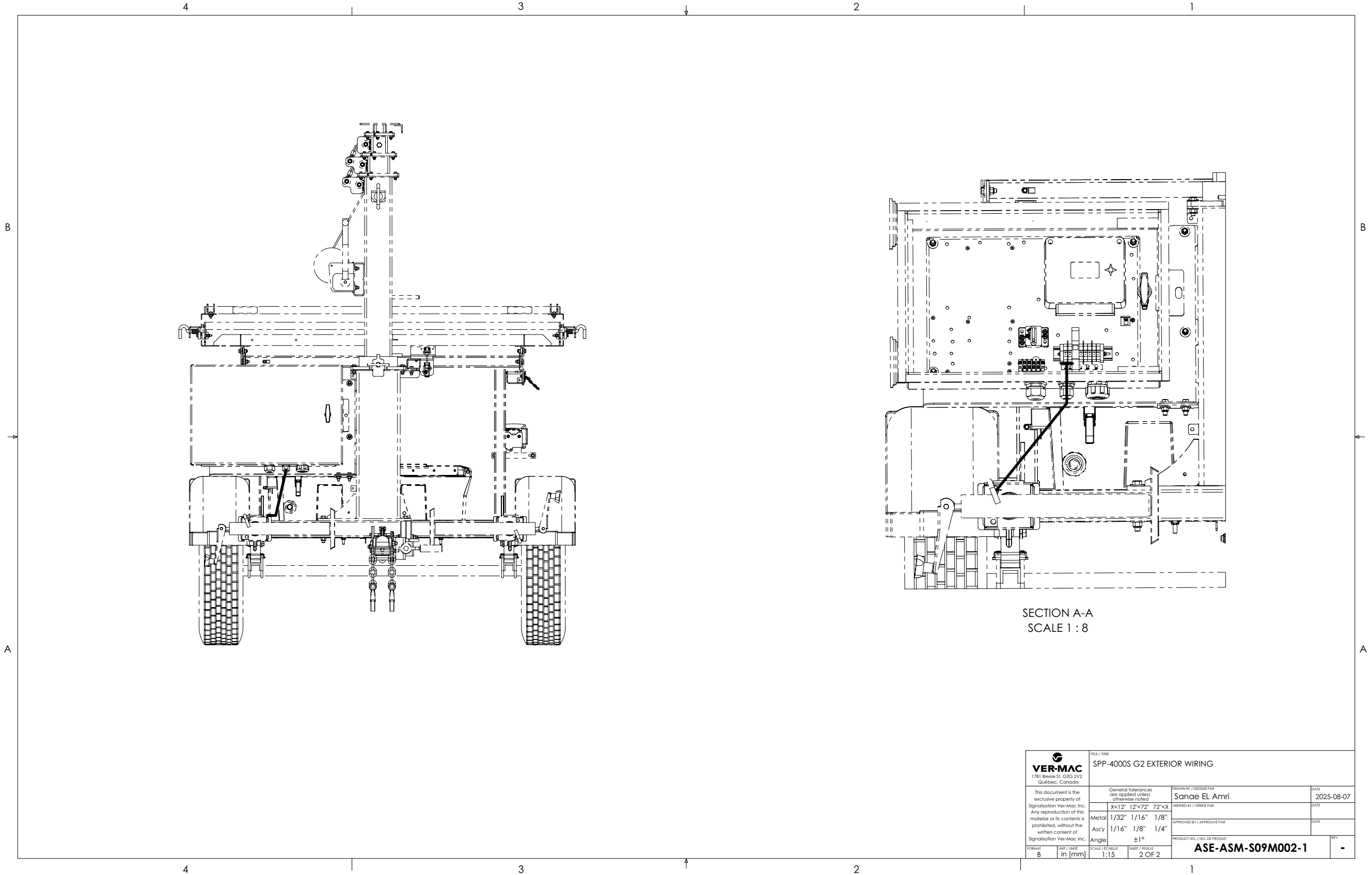
3.3 Solar Panel Wiring (ASE-RPS-AE2370M01) (Cont'd)



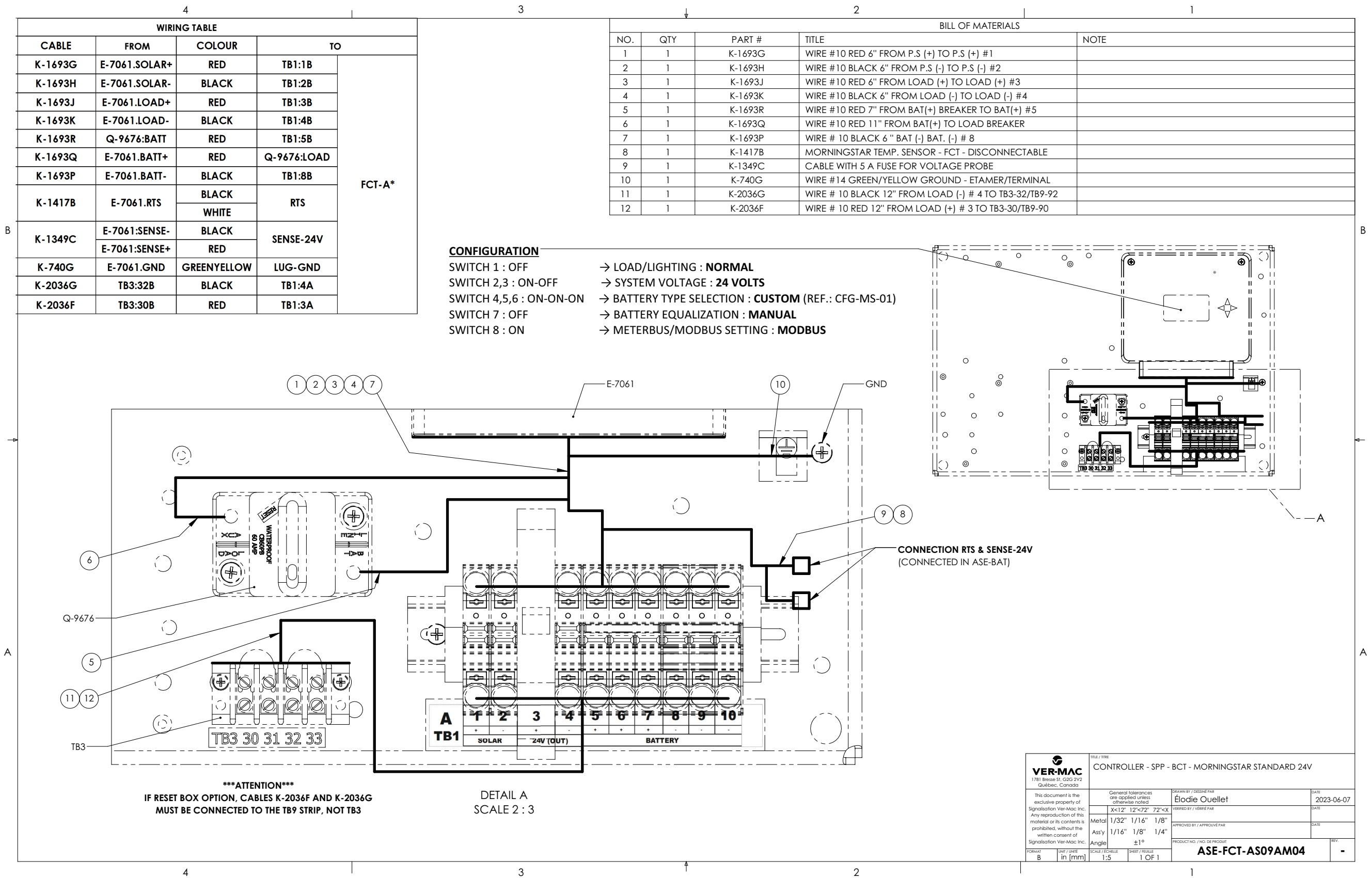
3.4 Exterior Wiring (ASE-ASM-S09M002-1)



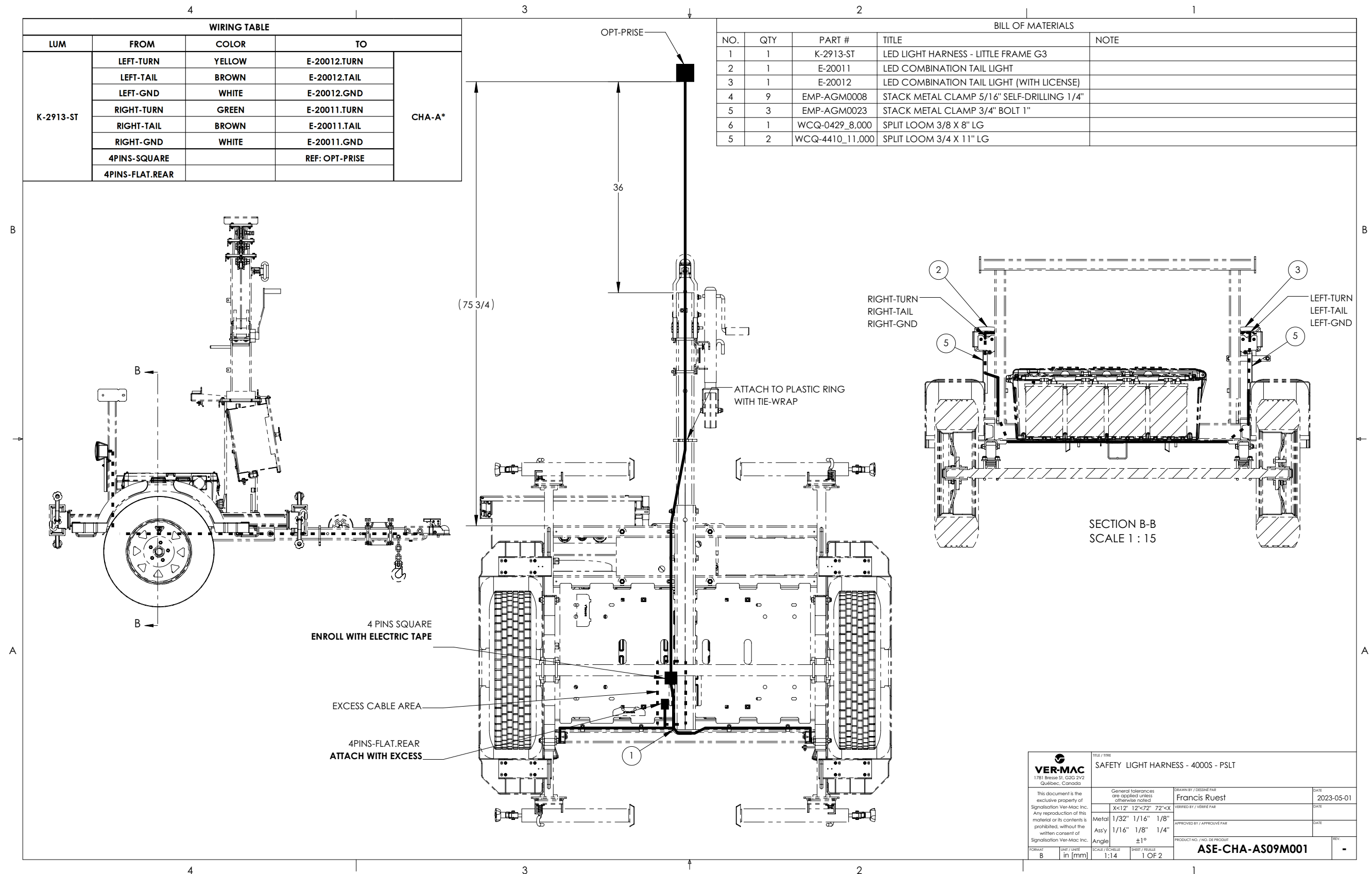
3.5 Exterior Wiring (ASE-ASM-S09M002-1) (Cont'd)



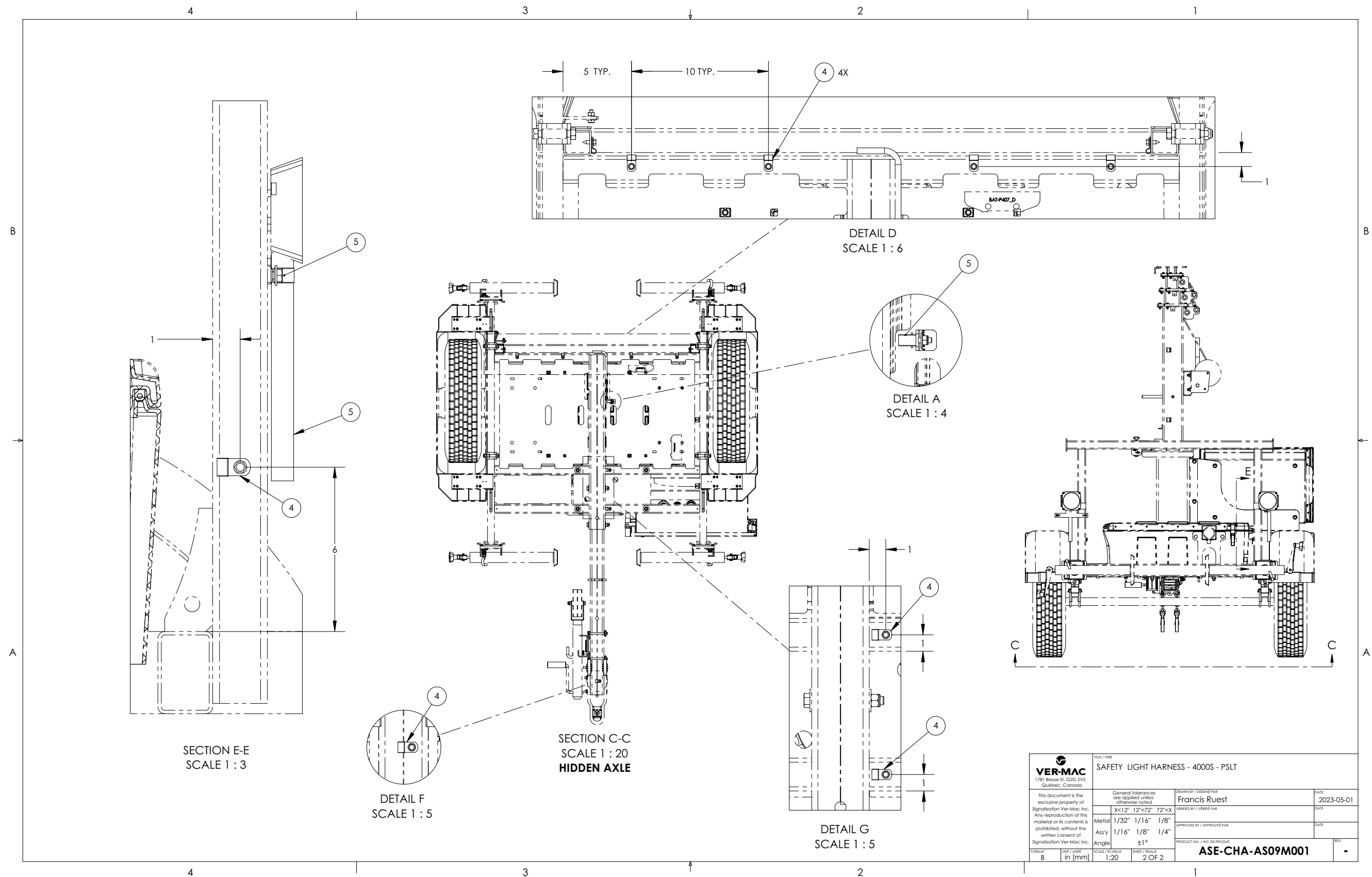
3.6 Controller (ASE-FCT-AS09AM04)



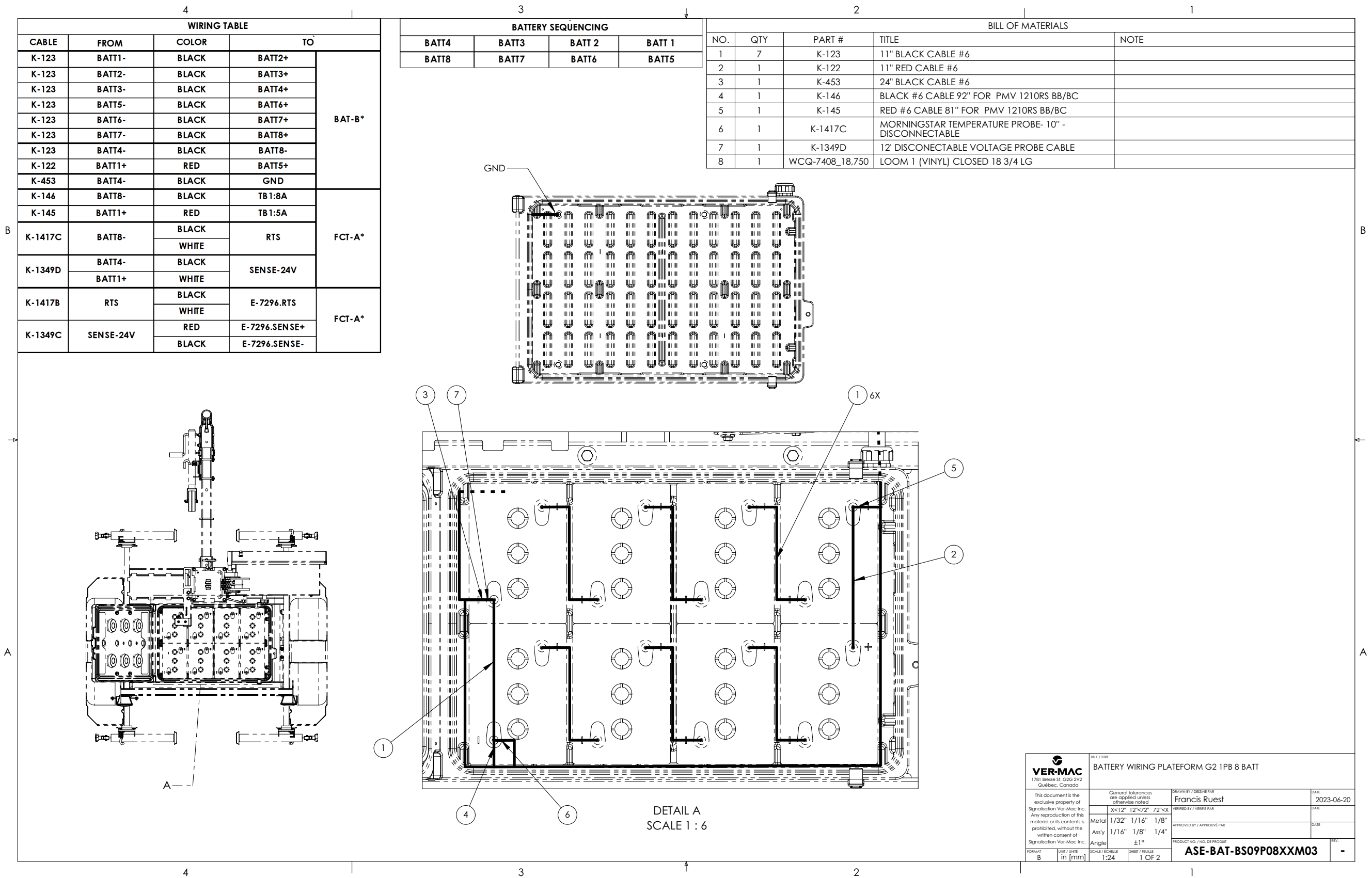
3.7 Safety Light Wiring (ASE-CHA-AS09M001)



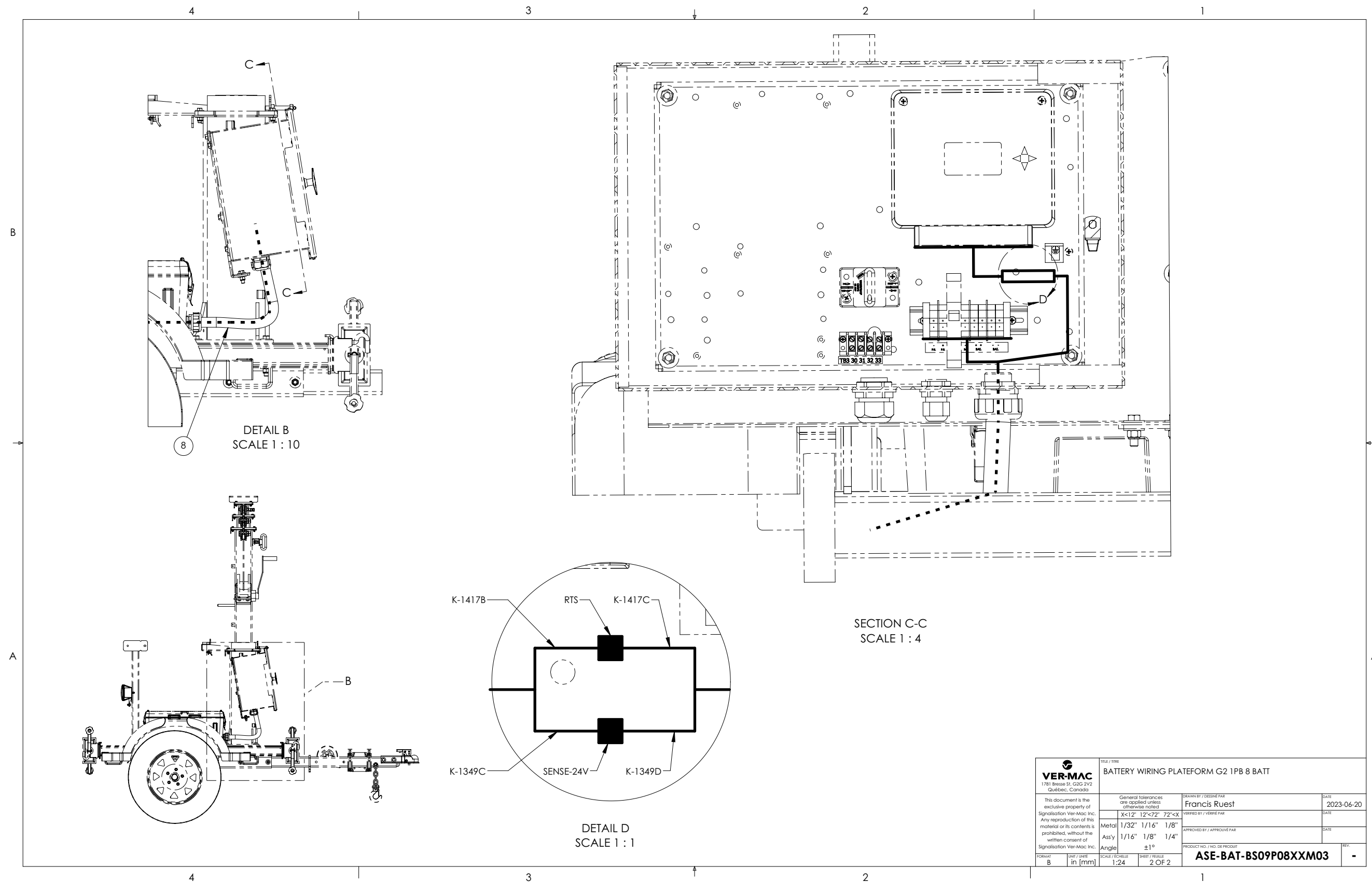
3.8 Safety Light Wiring (ASE-CHA-AS09M001) (Cont'd)



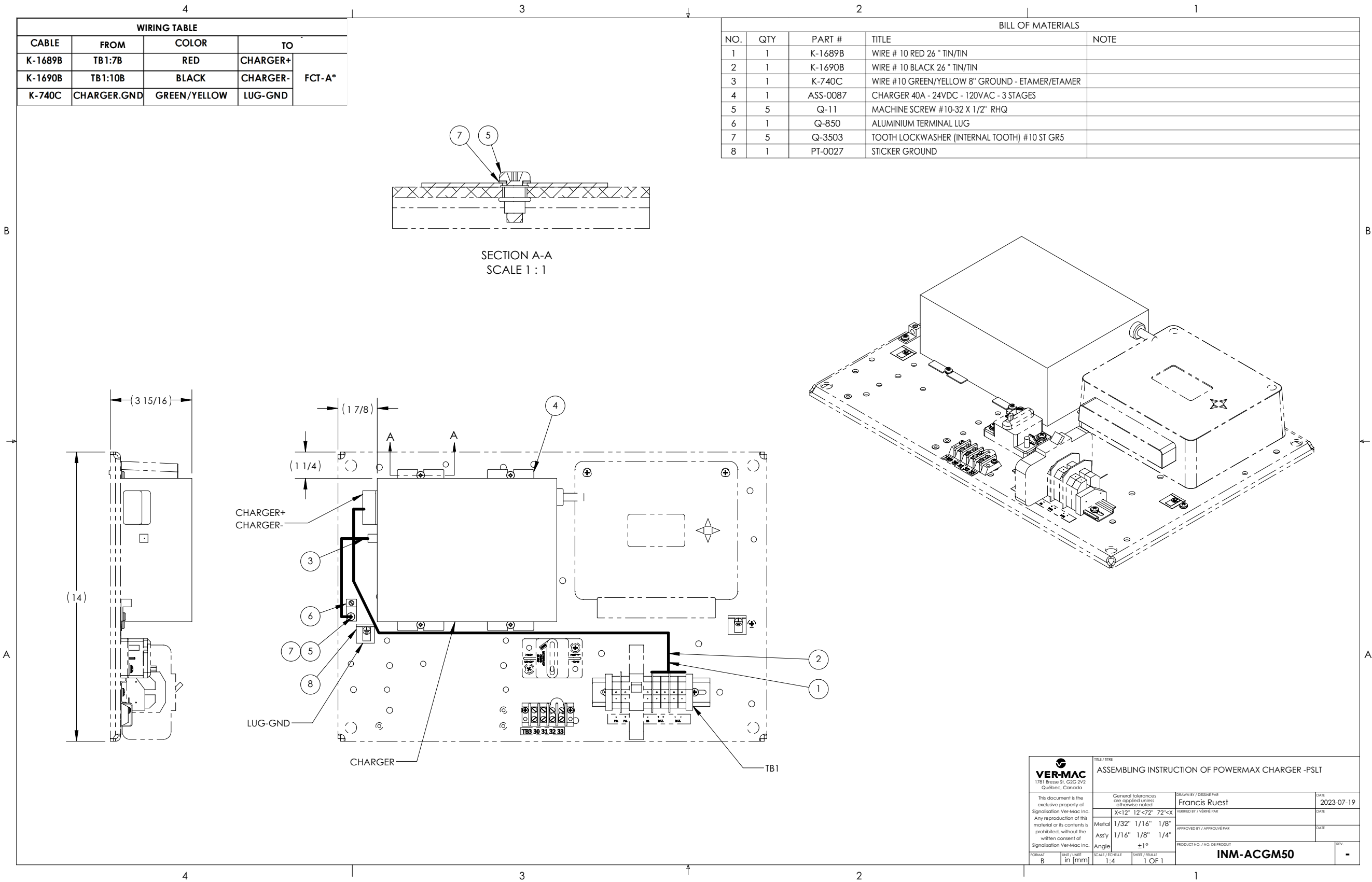
3.9 Battery Wiring (ASE-BAT-BS09P08XXM03)



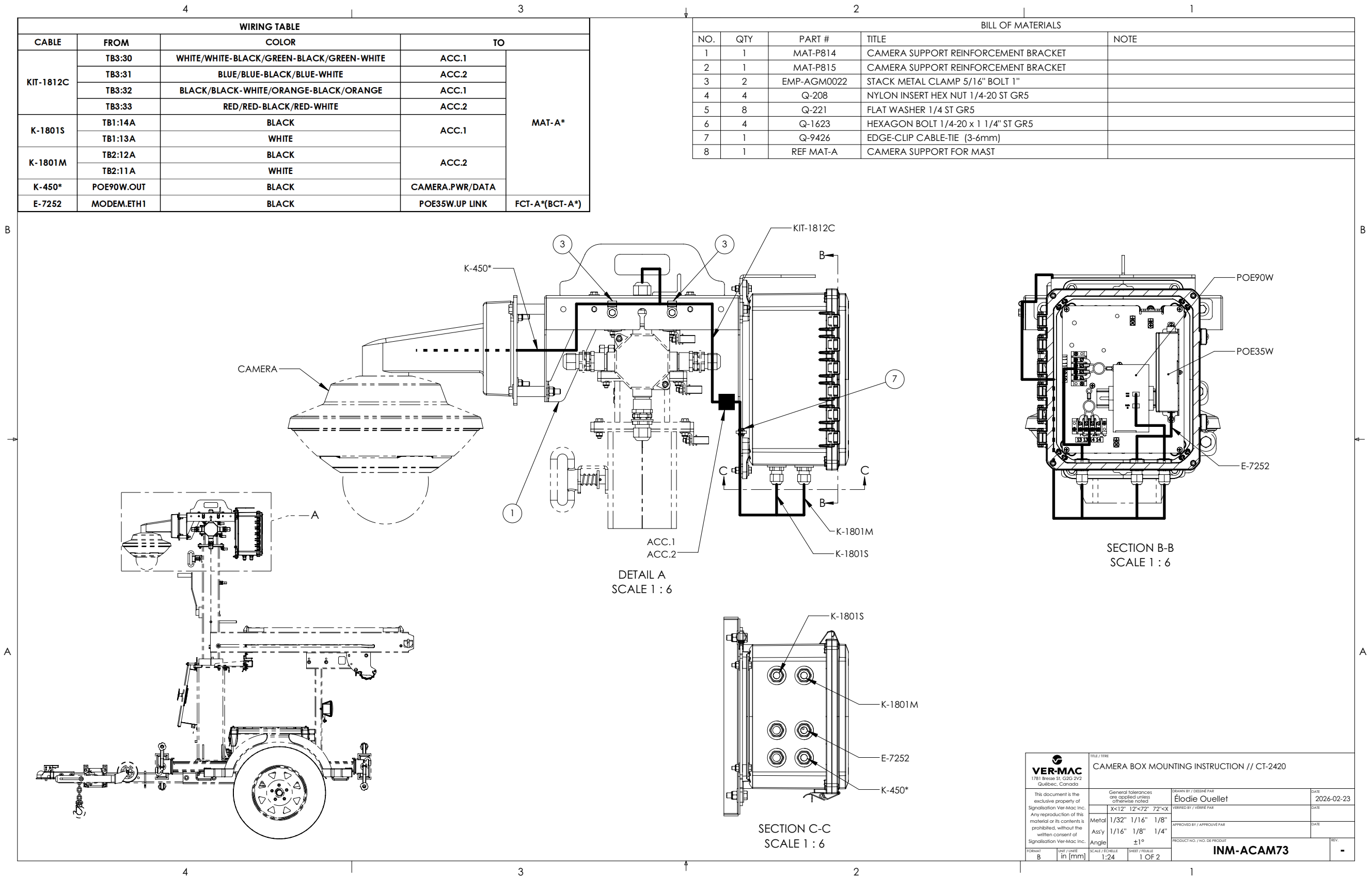
3.10 Battery Wiring (ASE-BAT-BS09P08XXM03) (Cont'd)



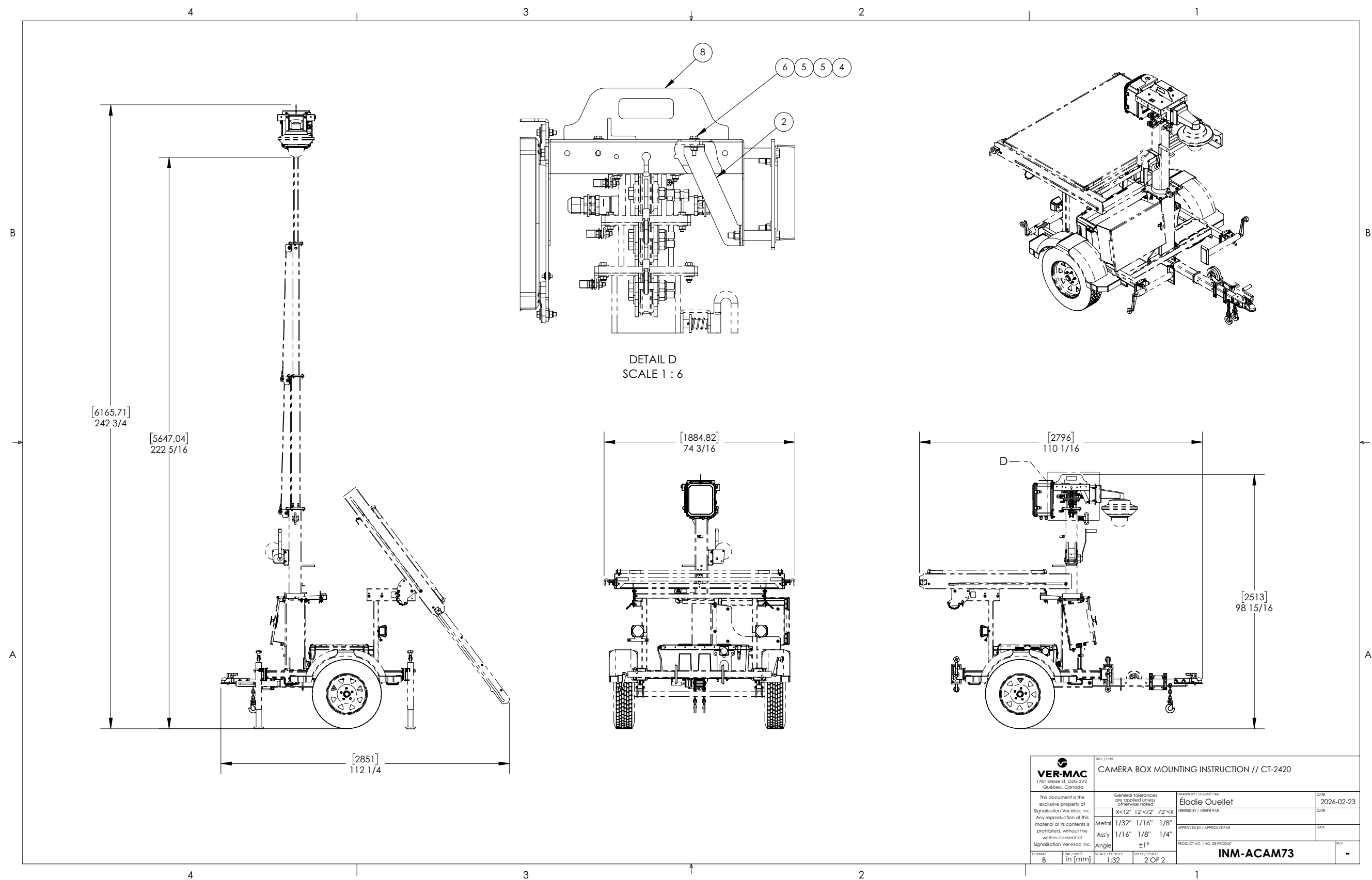
3.11 Charger Wiring (INM-ACGM50)



3.12 Camera Box Mounting (Surveillance Option) (INM-ACAM73)



3.13 Camera Box Mounting (Surveillance Option) (INM-ACAM73) (Cont'd)



3.14 Junction Box and Spiral Cable Installation (Surveillance Option) (INM-ABJM16)

WIRING TABLE				
CABLE	FROM	COLOR	TO	
KIT-1812C	TB3:30	WHITE/WHITE-BLACK/GREEN-BLACK/GREEN-WHITE	ACC.1	MAT-A*
	TB3:31	BLUE/BLUE-BLACK/BLUE-WHITE	ACC.2	
	TB3:32	BLACK/BLACK-WHITE/ORANGE-BLACK/ORANGE	ACC.1	
	TB3:33	RED/RED-BLACK/RED-WHITE	ACC.2	
E-7252	MODEM.ETH1	BLACK	POE35W.UP LINK	FCT-A*(BCT-A*)

KIT-1812C INSTRUCTION :
LEAVE 25 LOOPS BETWEEN THIS CLIP AND THE JUNCTION BOX (16" RETRACTED).

E-7252 INSTRUCTION :
LEAVE 50 LOOPS BETWEEN THIS CLIP AND THE TOP OF THE MAST.

KIT-1812C INSTRUCTION :
LEAVE 25 LOOPS BETWEEN THESE CLIPS (16" RETRACTED).

E-7252 INSTRUCTION :
LEAVE 50 LOOPS BETWEEN THESE CLIPS.

ATTACH THE BEGINNING OF THE SPIRAL SECTION TO THIS CLIP. AGRAFE.

LEAVE 28" OF CABLE BETWEEN THE FIXED AND THE MOBILE POLE CLIP.

BILL OF MATERIALS				
NO.	QTY	PART #	TITLE	NOTE
1	1	KIT-1812C	SPIRAL CABLE FOR SPP G2 WITH JUNCTION BOX	
2	1	E-7252	SPIRAL CABLE RJ45 - EXT 1 : 48"- 48" RETRACTED - EXT 2 :15	
3	7	EMP-AGM0002	STACK METAL CLAMP 1" BOLT 1"	
4	2	Q-164	HEX. BOLT 1/4" x 1" ST GR5	
5	2	Q-208	NYLON INSERT HEX NUT 1/4-20 ST GR5	
6	4	Q-221	FLAT WASHER 1/4 ST GR5	
7	1	REF BOX-A*	SPP-4000S SPIRAL CABLE JUNCTION BOX	

DETAIL A
SCALE 1 : 6

SECTION B-B

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Québec, Canada

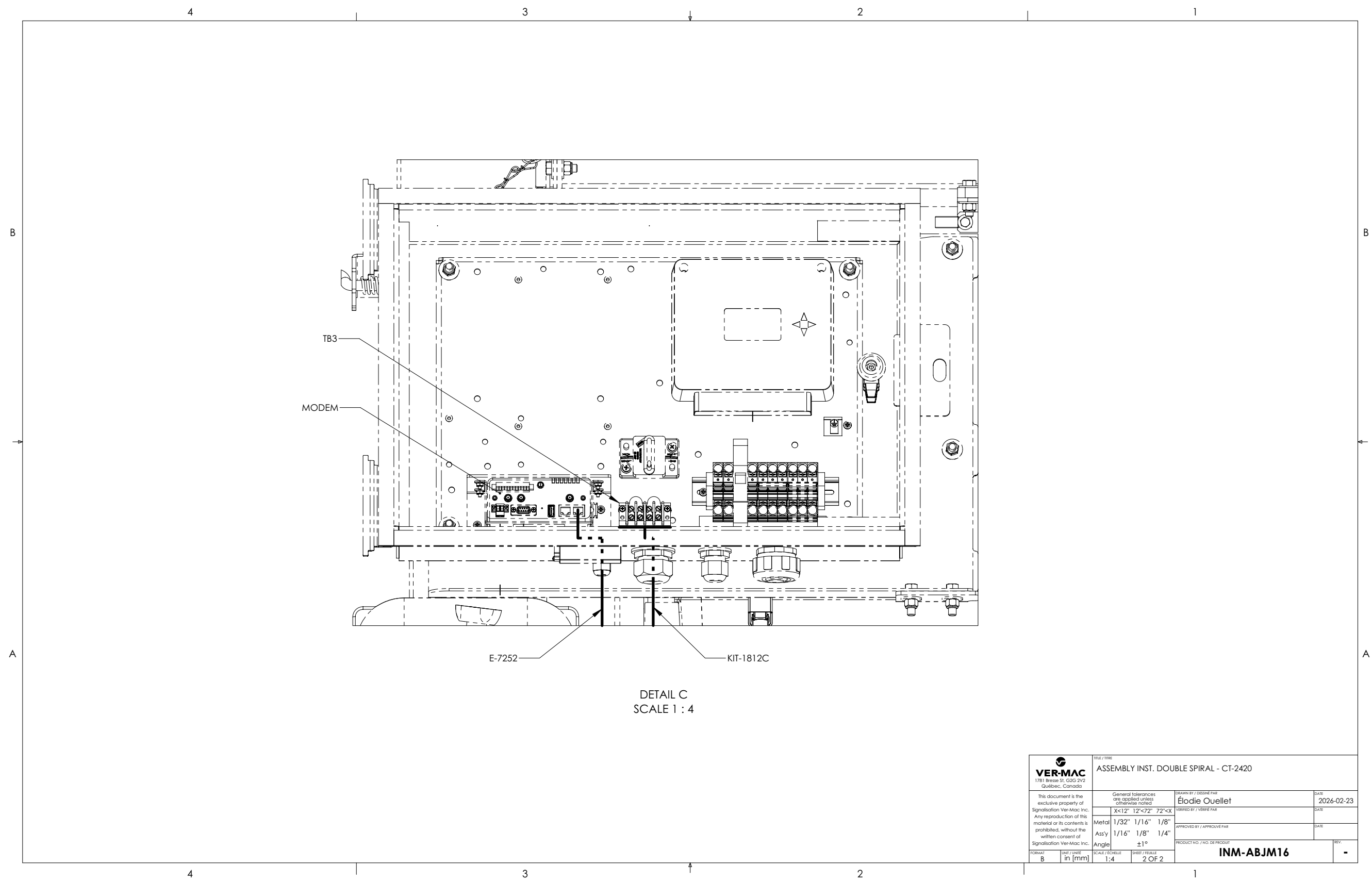
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FORMAT B UNIT / UNITE in [mm] SCALE / ÉCHELLE 1:28 SHEET / FEUILLE 1 OF 2

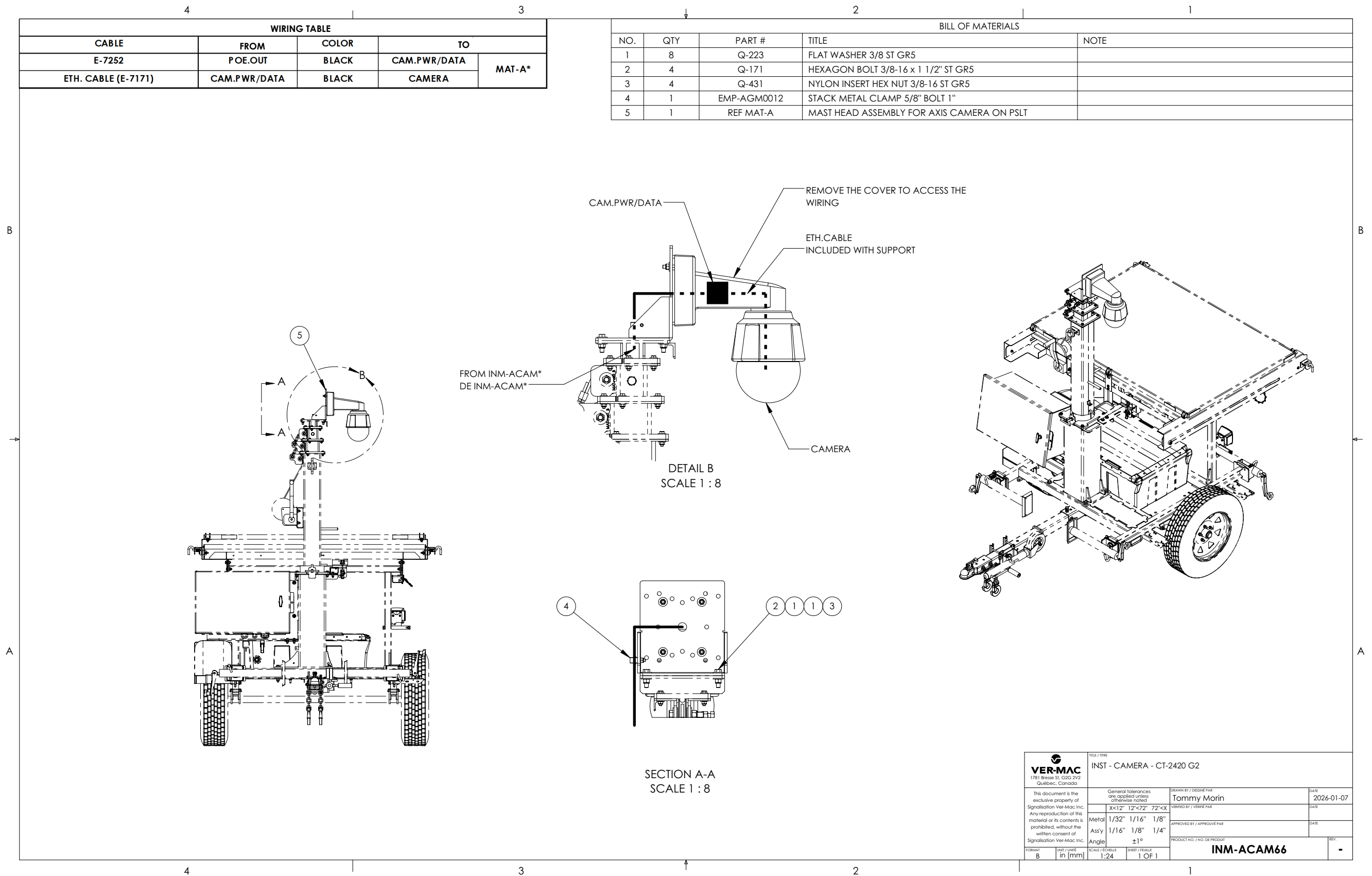
TITLE / TITRE ASSEMBLY INST. DOUBLE SPIRAL - CT-2420

General tolerances are applied unless otherwise noted	DRAWN BY / Dessiné par Élodie Ouellet	DATE 2026-02-23
	CHECKED BY / Vérifié par	
Metal 1/32" 1/16" 1/8"	APPROVED BY / Approuvé par	
Ass'y 1/16" 1/8" 1/4"		
Angle ±1°		
PRODUCT NO. / NO. DE PRODUIT INM-ABJM16		REV. -

3.15 Junction Box and Spiral Cable Installation (Surveillance Option) (INM-ABJM16)(Cont'd)



3.16 Camera Wiring (Camera Std Option) (NM-ACAM66)



3.17 Cable Installation (Camera Std Option) (INM-ABJM14)

