



TOPIDERM CONTRACT MANUFACTURING
NORTH AMITYVILLE, NY 11701
PROJECT: B16821

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REVISION HISTORY			
REV	DATE	STATE	RELEASED
A	1/20/2025		
		ENGINEER	Jeremy Keene
		RELEASED	2/14/2025

**WAUSEON MACHINE**
995 Enterprise Ave. Wauseon OH 43567 • Ph (419)337-0940 • www.wauseonmachine.com

DWG. TITLE TOPIDERM CONTRACT MANUFACTURING TOWELETTE PACKETS BOXING MACHINE TITLE SHEET			
ENGINEER J. KEENE		CHECKED BY J.C.K	
JOB NO B16821		DRAWN BY J.K.	
SCALE N.T.S.	DATE 10/2024		
DWG NO B16821- E000			
ELECTRICAL OVERVIEW		SHEET 00	

DRAWING #	SHEET	SECTION	SUB-SECTION	DESCRIPTION
B16821-E000	00	ELECTRICAL	OVERVIEW	TITLE SHEET
B16821-E001	01	ELECTRICAL	OVERVIEW	SHEET INDEX
B16821-E002	02	ELECTRICAL	OVERVIEW	SHEET INDEX
B16821-E003	03	ELECTRICAL	OVERVIEW	NOTES & LEGENDS
B16821-E010	10	ELECTRICAL	OVERVIEW	MACHINE LAYOUT ~ COMPONENT LOCATION
B16821-E020	20	ELECTRICAL	OVERVIEW	MACHINE LAYOUT ~ COMPONENT LOCATION
B16821-E030	30	ELECTRICAL	OVERVIEW	MACHINE LAYOUT ~ COMPONENT LOCATION
B16821-E040	40	ELECTRICAL	OVERVIEW	MACHINE LAYOUT ~ COMPONENT LOCATION
B16821-E050	50	ELECTRICAL	OVERVIEW	MACHINE LAYOUT ~ WIREWAY ROUTING
B16821-E110	110	ELECTRICAL	1-PHASE AC DISTRIBUTION	1-PHASE DISTRIBUTION
B16821-E111	111	ELECTRICAL	1-PHASE AC DISTRIBUTION	1-PHASE DISTRIBUTION
B16821-E112	112	ELECTRICAL	1-PHASE AC DISTRIBUTION	1-PHASE DISTRIBUTION
B16821-E113	113	ELECTRICAL	1-PHASE AC DISTRIBUTION	1-PHASE DISTRIBUTION
B16821-E114	114	ELECTRICAL	1-PHASE AC DISTRIBUTION	1-PHASE DISTRIBUTION
B16821-E115	115	ELECTRICAL	1-PHASE AC DISTRIBUTION	1-PHASE DISTRIBUTION
B16821-E120	120	ELECTRICAL	DC DISTRIBUTION	24VDC DISTRIBUTION
B16821-E121	121	ELECTRICAL	DC DISTRIBUTION	24VDC DISTRIBUTION
B16821-E122	122	ELECTRICAL	DC DISTRIBUTION	24VDC DISTRIBUTION
B16821-E123	123	ELECTRICAL	DC DISTRIBUTION	24VDC DISTRIBUTION
B16821-E124	124	ELECTRICAL	DC DISTRIBUTION	WEIGH STATION LOAD CELL
B16821-E200	200	ELECTRICAL	SAFETY	SAFETY I/O LAYOUT
B16821-E201	201	ELECTRICAL	SAFETY	SAFETY I/O SCHEMATICS
B16821-E202	202	ELECTRICAL	SAFETY	SAFETY I/O SCHEMATICS
B16821-E203	203	ELECTRICAL	SAFETY	SAFETY I/O SCHEMATICS
B16821-E204	204	ELECTRICAL	SAFETY	SAFETY I/O SCHEMATICS
B16821-E210	210	ELECTRICAL	SAFETY	DOOR ACCESS CONTROL BOX
B16821-E215	215	ELECTRICAL	SAFETY	SAFETY RELIEF VALVE
B16821-E220	220	ELECTRICAL	SAFETY	DOOR SWITCHES
B16821-E225	225	ELECTRICAL	SAFETY	LIGHT CURTAINS
B16821-E300	300	ELECTRICAL	LOCAL IO	PLC RACK LAYOUT
B16821-E301	301	ELECTRICAL	LOCAL IO	LOCAL I/O SCHEMATICS
B16821-E302	302	ELECTRICAL	LOCAL IO	LOCAL I/O SCHEMATICS
B16821-E303	303	ELECTRICAL	LOCAL IO	LOCAL I/O SCHEMATICS
B16821-E304	304	ELECTRICAL	LOCAL IO	LOCAL I/O SCHEMATICS
B16821-E400	400	ELECTRICAL	REMOTE IO	REMOTE I/O DEVICES
B16821-E401	401	ELECTRICAL	REMOTE IO	REMOTE I/O SCHEMATICS
B16821-E402	402	ELECTRICAL	REMOTE IO	REMOTE I/O SCHEMATICS
B16821-E403	403	ELECTRICAL	REMOTE IO	REMOTE I/O SCHEMATICS
B16821-E404	404	ELECTRICAL	REMOTE IO	REMOTE I/O SCHEMATICS
B16821-E405	405	ELECTRICAL	REMOTE IO	REMOTE I/O SCHEMATICS
B16821-E406	406	ELECTRICAL	REMOTE IO	REMOTE I/O SCHEMATICS
B16821-E410	410	ELECTRICAL	REMOTE IO	PNEUMATIC MANIFOLD
B16821-E411	411	ELECTRICAL	REMOTE IO	PNEUMATIC MANIFOLD
B16821-E412	412	ELECTRICAL	REMOTE IO	VACUUM MANIFOLD
B16821-E413	413	ELECTRICAL	REMOTE IO	INKJET PRINTER INTERFACE
B16821-E420	420	ELECTRICAL	REMOTE IO	ID-LINK DEVICES
B16821-E421	421	ELECTRICAL	REMOTE IO	ID-LINK SCHEMATICS
B16821-E422	422	ELECTRICAL	REMOTE IO	ID-LINK SCHEMATICS
B16821-E423	423	ELECTRICAL	REMOTE IO	ID-LINK SCHEMATICS
B16821-E424	424	ELECTRICAL	REMOTE IO	ID-LINK SCHEMATICS

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A	1/20/2025	Jeremy Keene	2/14/2025



WAUSEON MACHINE
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DWG. TITLE TOPIDERM CONTRACT MANUFACTURING TOWELETTE PACKETS BOXING MACHINE SHEET INDEX			
ENGINEER J. KEENE		CHECKED BY J.C.K	
JOB NO B16821		DRAWN BY J.K.	
SCALE N.T.S.		DATE 10/2024	
DWG NO B16821- E001			
ELECTRICAL		SHEET	
OVERVIEW		01	

DRAWING #	SHEET	SECTION	SUB-SECTION	DESCRIPTION
B16821-E500	500	ELECTRICAL	MOTION CONTROL	MOTION CONTROL DEVICES
B16821-E501	501	ELECTRICAL	MOTION CONTROL	MOTION CONTROL SCHEMATICS
B16821-E502	502	ELECTRICAL	MOTION CONTROL	OUTFEED CONVEYOR DRIVE CONTROL
B16821-E550	550	ELECTRICAL	ROBOT(S)	ROBOT CONTROLLER
B16821-E551	551	ELECTRICAL	ROBOT(S)	ROBOT SAFETY CONNECTIONS
B16821-E552	552	ELECTRICAL	ROBOT(S)	ROBOT SAFETY CONNECTIONS
B16821-E553	553	ELECTRICAL	ROBOT(S)	ROBOT I/O SCHEMATICS
B16821-E554	554	ELECTRICAL	ROBOT(S)	ROBOT I/O SCHEMATICS
B16821-E555	555	ELECTRICAL	ROBOT(S)	ROBOT EOAT WIRING
B16821-E620	620	ELECTRICAL	COMMUNICATION	ETHERNET ROUTING/SETTINGS/PARAMETERS
B16821-E705	705	ELECTRICAL	ASSEMBLY	MAIN ENCLOSURE (SERVO) ~ EXTERIOR
B16821-E706	706	ELECTRICAL	ASSEMBLY	MAIN ENCLOSURE (SERVO) ~ INTERIOR
B16821-E707	707	ELECTRICAL	ASSEMBLY	MAIN ENCLOSURE (SERVO) ~ EXTERIOR CUTOUT
B16821-E708	708	ELECTRICAL	ASSEMBLY	MAIN ENCLOSURE (SERVO) ~ INTERIOR LAYOUT
B16821-E709	709	ELECTRICAL	ASSEMBLY	MAIN ENCLOSURE (SERVO) ~ INTERIOR DRILLING
B16821-E710	710	ELECTRICAL	ASSEMBLY	MAIN ENCLOSURE (SERVO) ~ MOUNTING HOLE PATTERNS
B16821-E711	711	ELECTRICAL	ASSEMBLY	OPERATOR PANEL ~ EXTERIOR
B16821-E712	712	ELECTRICAL	ASSEMBLY	OPERATOR PANEL ~ INTERIOR
B16821-E713	713	ELECTRICAL	ASSEMBLY	OPERATOR PANEL ~ EXTERIOR CUTOUT
B16821-E714	714	ELECTRICAL	ASSEMBLY	JUNCTION BOX 1 ~ EXTERIOR
B16821-E715	715	ELECTRICAL	ASSEMBLY	JUNCTION BOX 1 ~ INTERIOR
B16821-E716	716	ELECTRICAL	ASSEMBLY	JUNCTION BOX 1 ~ EXTERIOR CUTOUT
B16821-E726	726	ELECTRICAL	ASSEMBLY	WEIGH SCALE JUNCTION BOX
B16821-E730	730	ELECTRICAL	ASSEMBLY	TERMINAL STRIP LAYOUT
B16821-E731	731	ELECTRICAL	ASSEMBLY	TERMINAL STRIP LAYOUT
B16821-E732	732	ELECTRICAL	ASSEMBLY	TERMINAL STRIP LAYOUT
B16821-E733	733	ELECTRICAL	ASSEMBLY	CABLE CONSTRUCTION & CHART
B16821-E734	734	ELECTRICAL	ASSEMBLY	MELTRIC PLUG ASSEMBLY
B16821-E735	735	ELECTRICAL	ASSEMBLY	CONVENIENCE RECEPTACLES
B16821-E800	800	ELECTRICAL	BILL OF MATERIAL	BILL OF MATERIAL
B16821-E801	801	ELECTRICAL	BILL OF MATERIAL	BILL OF MATERIAL
B16821-E802	802	ELECTRICAL	BILL OF MATERIAL	BILL OF MATERIAL
B16821-E803	803	ELECTRICAL	BILL OF MATERIAL	BILL OF MATERIAL
B16821-E804	804	ELECTRICAL	BILL OF MATERIAL	BILL OF MATERIAL
B16821-E805	805	ELECTRICAL	BILL OF MATERIAL	BILL OF MATERIAL
B16821-E806	806	ELECTRICAL	BILL OF MATERIAL	BILL OF MATERIAL

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A	1/20/2025	Jeremy Keene	2/14/2025



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DWG. TITLE	
TOPIDERM CONTRACT MANUFACTURING TOWELETTE PACKETS BOXING MACHINE SHEET INDEX	
ENGINEER J. KEENE	CHECKED BY J.C.K
JOB NO B16821	DRAWN BY J.K.
SCALE N.T.S.	DATE 10/2024
DWG NO B16821- E002	
ELECTRICAL OVERVIEW	SHEET 02

GENERAL WIRING AND ASSEMBLY NOTES

ALL DC WIRE NOT MARKED WITH WIRE GAUGE LABEL - 18AWG BLUE OR 18AWG WHITE/BLUE AS REQUIRED

USE FERRULES ON ALL WIRE CONNECTIONS AT DEVICE TERMINAL BLOCKS AND TERMINAL STRIPS

REFER TO EQUIPMENT OPTIONS TABLE FOR EQUIPMENT BUILD REQUIREMENTS.

MAIN POWER MELTRIC PLUG IS TO BE SUPPLIED TO END USER FOR MAIN POWER HOOKUP. REPACKAGE AFTER USE.

IF TRANSFORMER IS MOUNTED ON THE BACK SIDE OF THE MAIN ELECTRICAL ENCLOSURE, HOLES WILL NEED TO BE ADDED TO ENCLOSURE PRIOR TO INSTALLATION INTO MACHINE FRAME.

CABLE GROMMETS HAVE BEEN PRE-SELECTED BASED ON CABLE CALLOUTS. GROMMETS WITH TWO ENTRIES ARE DEDICATED FOR LIKE CABLES AND THE SECOND CABLE WILL NOT HAVE A GROMMET PART NUMBER DESIGNATION ON THE SCHEMATIC.

DO NOT CUT OR SHORTEN WEIGH STATION LOAD CELL CABLE. ACCURACY OF READINGS COULD BE AFFECTED.

EQUIPMENT OPTIONS	
STANDARD OPTION	SELECTED
8-PORT MANAGED ETHERNET SWITCH	-
IP67 IO-LINK MASTER	-
IO-LINK INTERIOR LIGHTING	-
IO-LINK STACK LIGHT	-
BARCODE	-
RFID	-
VISION SENSOR	-
CONVEYOR SYSTEM	-
LIGHT CURTAINS	-
STEPPER MOTOR	-
SINGLE SERVO AXIS	X
TWO SERVO AXIS	-
PREMIUM OPTION	SELECTED
8-PORT MANAGED POE ETHERNET SWITCH	-
8-PORT UNMANAGED IP67 ETHERNET SWITCH	-
WIRELESS MACHINE ETHERNET	-
WIRELESS SAFETY HMI	-
PANEL PC	-

PANEL TAG - SHOWN 2X SCALE

MANUFACTURER:	WAUSEON MACHINE
	www.wauseonmachine.com
VOLTAGE:	240VAC 1PH
FLA	23.27A
SCCR	65kA
ELECTRICAL INDEX #:	B16821-E
COOLANT INDEX #:	-
HYDRAULIC INDEX #:	-
LUBRICATION INDEX #:	-
PNEUMATIC INDEX #:	B16821-P
ENCLOSURE TYPE:	NEMA 12
SERIAL NUMBER:	B16821
MANUFACTURE DATE:	02/2025

7/7/2025 9:34:36 AM, Jared.keene, ***** AS BUILT *****

TERMINAL SYMBOL KEY

SYMBOL	DESCRIPTION
□	MAIN TERMINAL
△	SECONDARY ASSOCIATED TERMINAL
◇	DISTRIBUTION/BREAKOUT BOARD TERMINAL

LAYOUT SYMBOL KEY

PREFIX	SYMBOL	DESCRIPTION
AH		ALARM HORN
CP		CONTROL PANEL
HMI		HMI / PC ENCLOSURE
CS		CONTROL STATION (1 BUTTON)
CS		CONTROL STATION (2 BUTTONS)
CS		CONTROL STATION (3 BUTTONS)
CS		CONTROL STATION (4 BUTTONS)
CS		CONTROL STATION (4 BUTTON SQUARE)
CS		CONTROL STATION (PEDESTAL)
PWS		DC POWER SUPPLY
FS		FOOT SWITCH
CR		INTERLOCK INPUT
CR		INTERLOCK OUTPUT
LS		LIMIT SWITCH
MTR		MOTOR
PWS		POWER SUPPLY (MDR)
MDR		MOTOR DRIVEN ROLLER (MDR)
LT		BEACON LIGHT
PE		PHOTOEYE (RETRO-REFLECTIVE)
PE		PHOTOEYE (PROXIMITY)
PE		PHOTOEYE (SEND / RECV)
PS		PRESSURE SWITCH (AIR)
REG		REGULATOR (AIR)
MSV		SHUTOFF VALVE (AIR)
PX		PROXIMITY (INDUCTIVE) SWITCH
PC		PULLCORD SWITCH (UNIDIRECTIONAL)
PC		PULLCORD SWITCH (BIDIRECTIONAL)
		PULLCORD CABLE END ANCHOR
		PULLCORD DEFLECTOR PULLEY
LC		LIGHT CURTAIN TRANSMIT
		LIGHT CURTAIN RECIEVE
REC		120 VAC RECEPTACLE
SCN		SCANNER (LINE)
CAM		CAMERA
SV		SOLENOID VALVE
VFD		VARIABLE FREQ. DRIVE
ESPB		EMERGENCY STOP PUSHBUTTON
DS		DISCONNECT (3 PHASE)
XF		TRANSFORMER (3 PHASE)
WLT		WORKLIGHT

WIRE/CABLE KEY

SYMBOL	DESCRIPTION
_____	INTERNAL
- - - - -	EXTERNAL

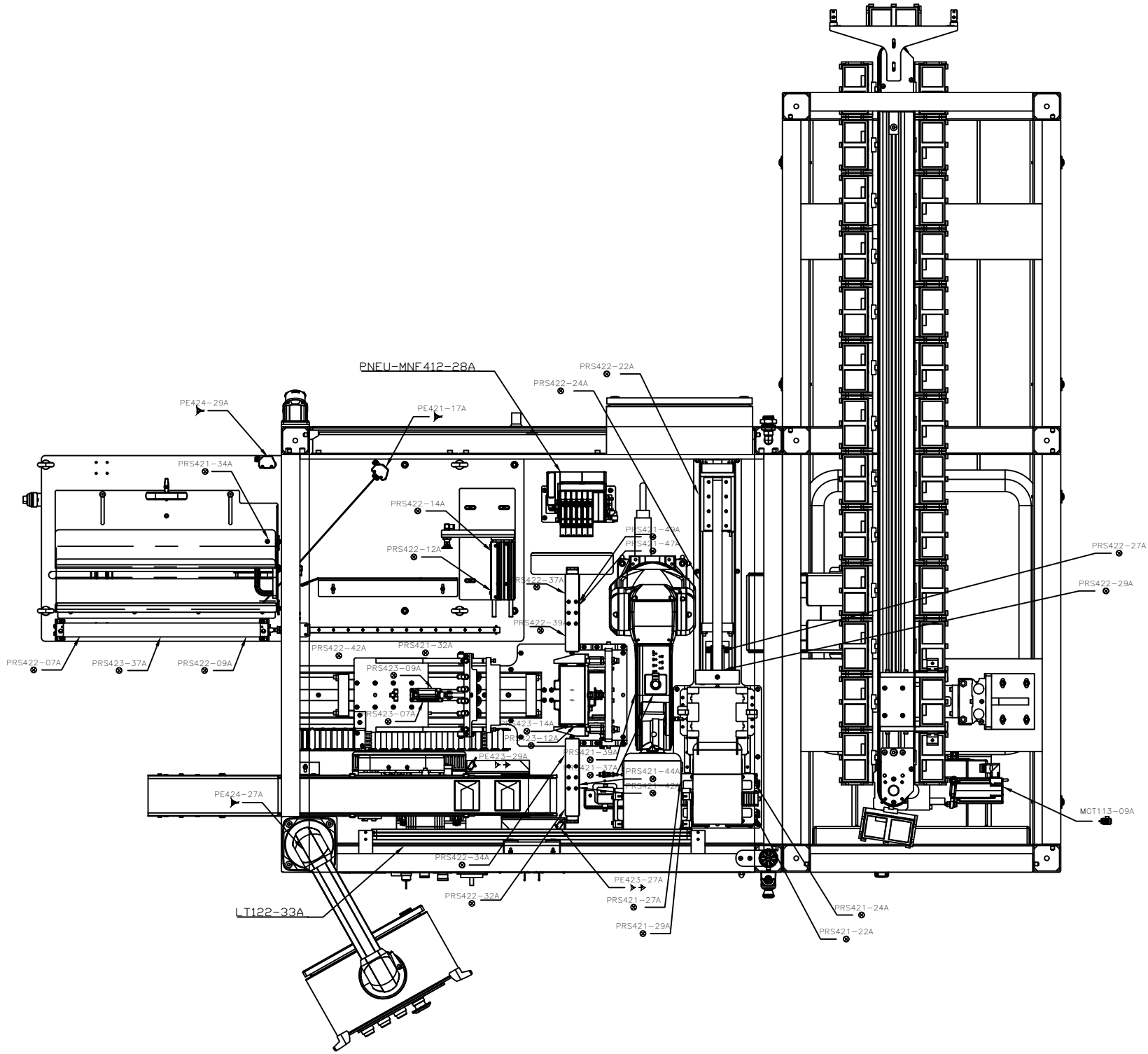
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REV	DATE	2/14/2025	
A	1/20/2025	Jeremy Keene	



DWG TITLE	
TOPIDERM CONTRACT MANUFACTURING TOWELETTE PACKETS BOXING MACHINE NOTES & LEGENDS	
ENGINEER J. KEENE	CHECKED BY J.C.K
JOB NO B16821	DRAWN BY J.K.
SCALE N.T.S.	DATE 10/2024
DWG NO B16821- E003	
ELECTRICAL OVERVIEW	SHEET 03

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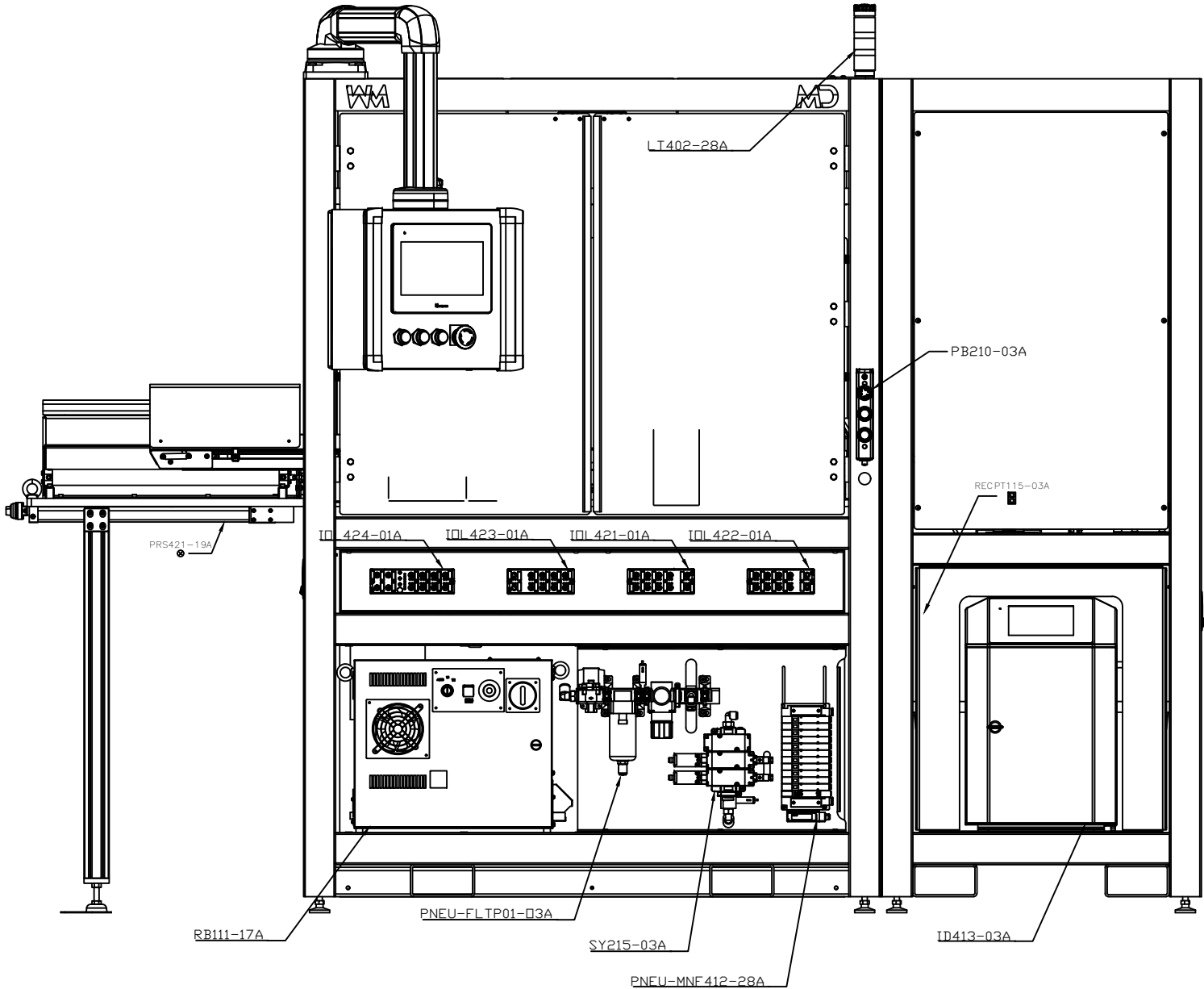
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DWG. TITLE	
TOPIDERM CONTRACT MANUFACTURING TOWELETTES PACKETS BOXING MACHINE MACHINE LAYOUT ~ COMPONENT LOCATION	
ENGINEER J. KEENE	CHECKED BY J.C.K.
JOB NO B16821	DRAWN BY J.K.
SCALE N.T.S.	DATE 10/2024
DWG NO B16821- E010	
ELECTRICAL OVERVIEW	SHEET 10

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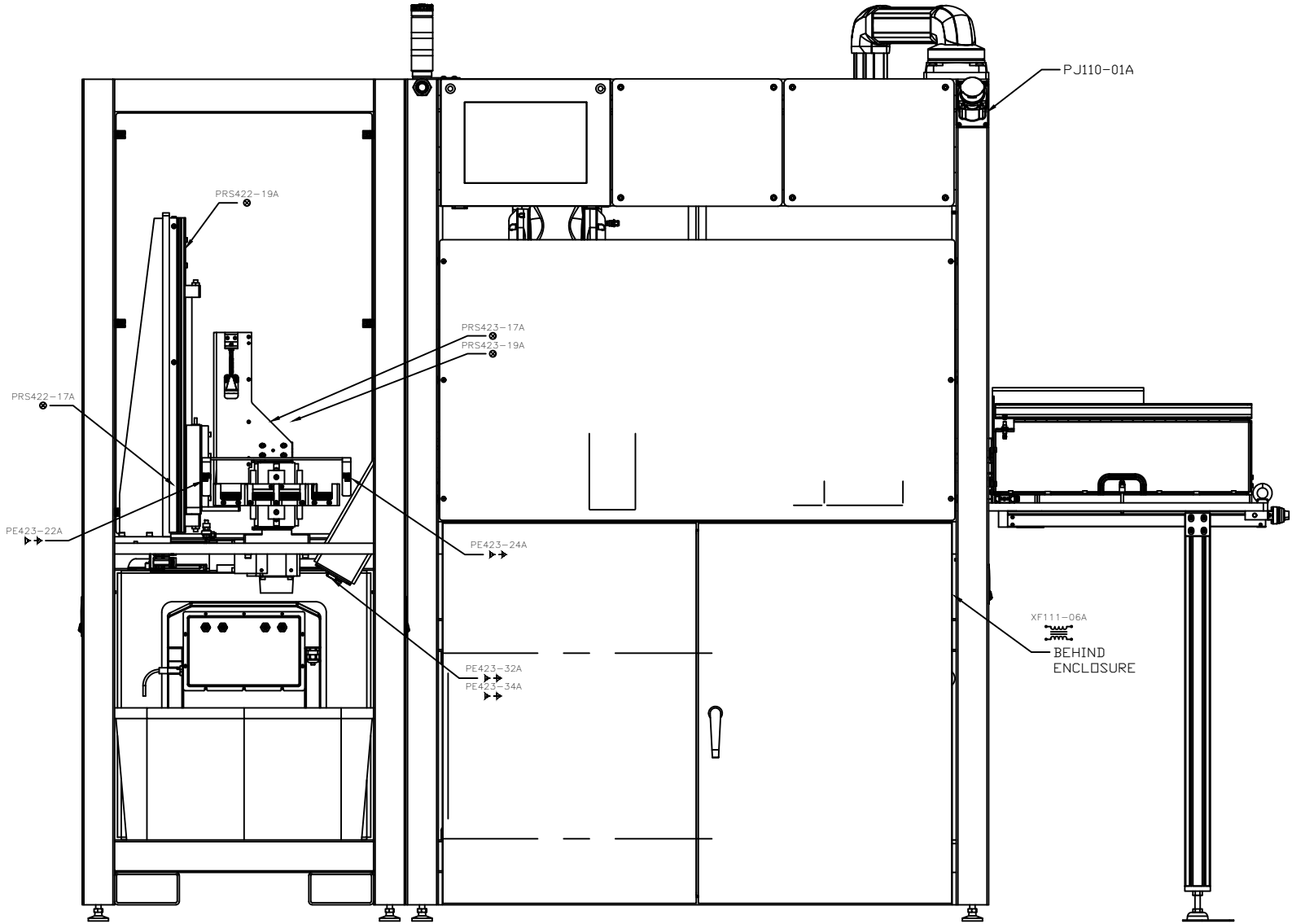
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ENGINEER	CHECKED BY
J. KEENE	J.C.K
JOB NO	DRAWN BY
B16821	J.K.
SCALE	DATE
N.T.S.	10/2024
DWG NO	
B16821- E020	
ELECTRICAL	SHEET
OVERVIEW	20

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TOPIDERM CONTRACT MANUFACTURING TOWELETTE PACKETS BOXING MACHINE MACHINE LAYOUT ~ COMPONENT LOCATION	
ENGINEER J. KEENE	CHECKED BY J.C.K
JOB NO B16821	DRAWN BY J.K.
SCALE N.T.S.	DATE 10/2024
DWG NO B16821- E030	
ELECTRICAL OVERVIEW	SHEET 30

RESERVED
FOR LAYOUT

DWG TITLE
TOPIDERM CONTRACT MANUFACTURING
TOWELETTE PACKETS
BOXING MACHINE
MACHINE LAYOUT ~ COMPONENT LOCATION

ENGINEER J. KEENE	CHECKED BY J.C.K
JOB NO B16821	DRAWN BY J.K
SCALE N.T.S.	DATE 10/2024

DWG NO
B16821– E040

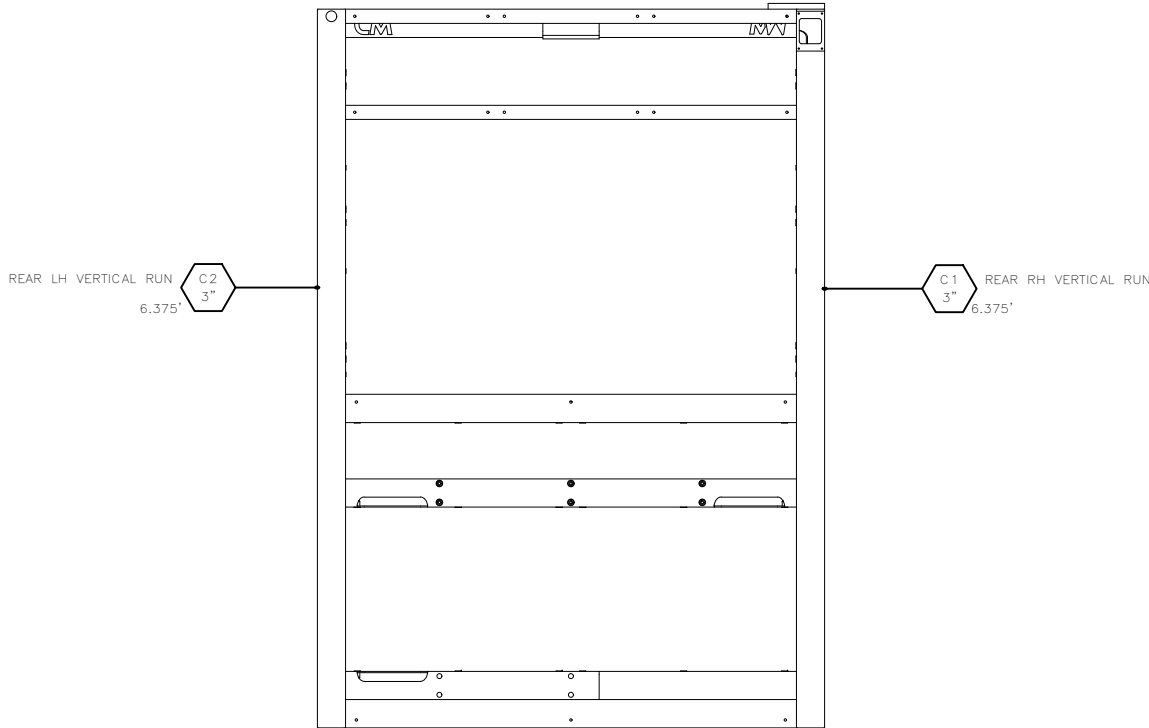
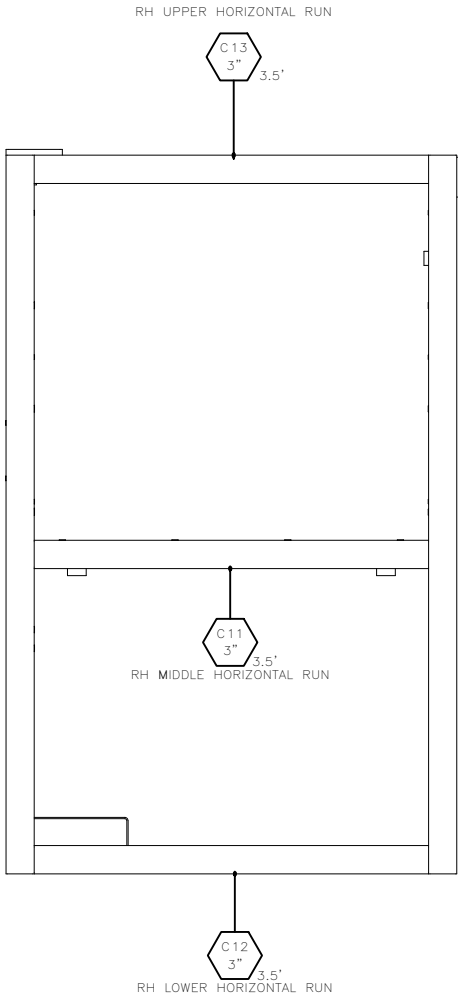
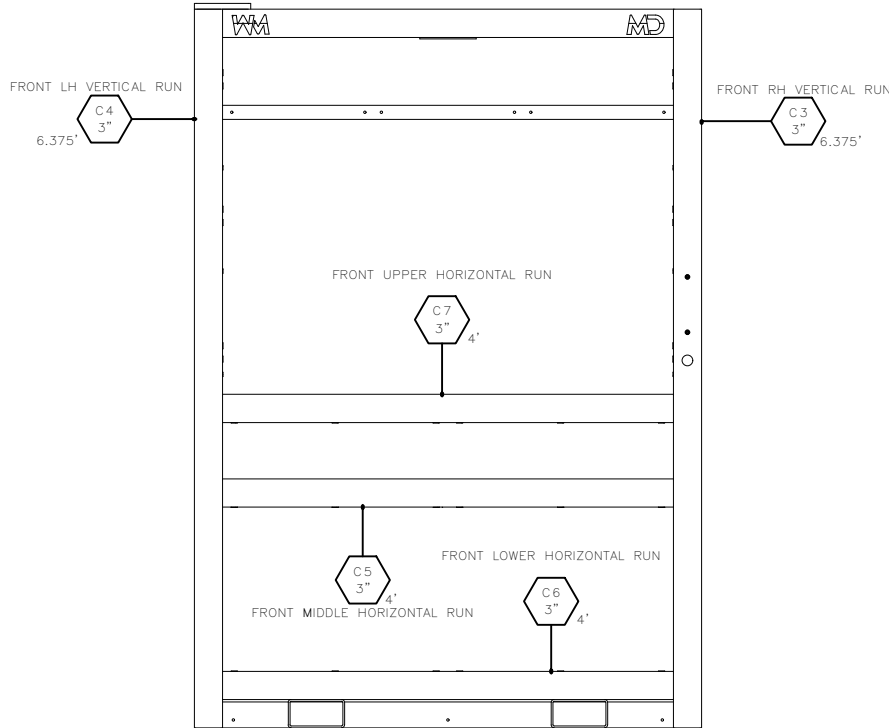
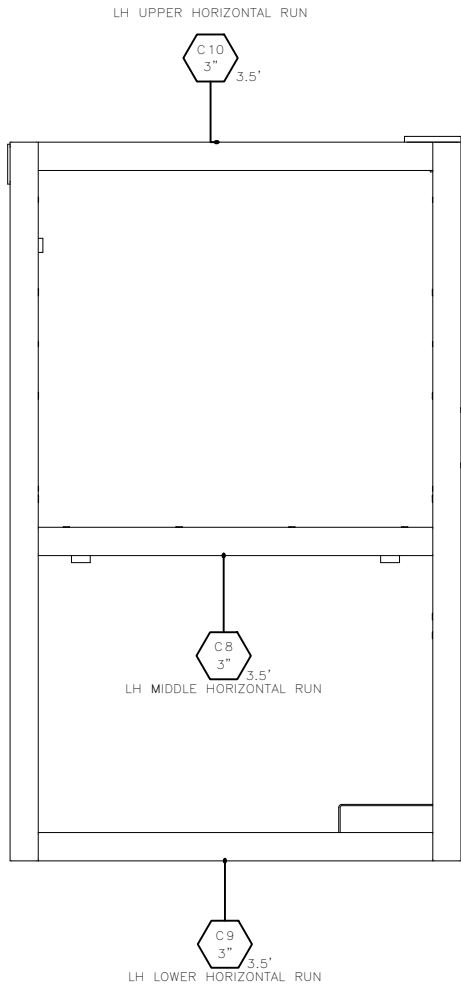
ELECTRICAL SHEET
OVERVIEW 40



WAUSEON MACHINE
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CBL	ROUTING
CBL110-01A	C9(3.5'),C1(6.375')
CBL111-03A	C1(6.375')
CBL111-09A	C1(6.375')
CBL111-17A	C9(3.5'),C6(4')
CBL113-08A	C9(3.5'),C6(4'),C12(3.5')
CBL115-03A	C9(3.5'),C6(4'),C12(3.5')
CBL120-07A	C7(4'),C4(6.375'),C2(6.375'),C11(3.5')
CBL122-32A	C3(6.375'),C2(6.375'),C11(3.5')
CBL124-02A	C7(4'),C2(6.375'),C11(3.5')
CBL124-03A	C7(4'),C4(6.375')
CBL210-03A	C3(6.375'),C2(6.375'),C11(3.5')
CBL215-03A	C5(4'),C3(6.375'),C2(6.375'),C11(3.5')
CBL215-05A	C5(4'),C3(6.375'),C2(6.375'),C11(3.5')
CBL215-10A	C5(4'),C3(6.375'),C2(6.375'),C11(3.5')
CBL215-12A	C5(4'),C3(6.375'),C2(6.375'),C11(3.5')
CBL220-03A	C3(6.375'),C2(6.375'),C11(3.5')
CBL220-15A	C3(6.375'),C2(6.375'),C11(3.5')
CBL220-28A	C8(3.5'),C7(4'),C2(6.375'),C11(3.5')
CBL401-03A	C2(6.375')
CBL401-28A	C2(6.375')
CBL402-28A	C2(6.375')
CBL402-28B	C3(6.375'),C2(6.375'),C11(3.5')
CBL403-33A	C7(4'),C2(6.375'),C11(3.5')
CBL403-39A	C3(6.375'),C2(6.375'),C11(3.5')
CBL403-45A	C3(6.375'),C2(6.375'),C11(3.5')
CBL410-03A	C3(6.375'),C2(6.375'),C11(3.5')
CBL412-03A	C2(6.375'),C11(3.5')
CBL413-13A	C2(6.375'),C12(3.5')
CBL421-01A	C7(4'),C3(6.375'),C2(6.375'),C11(3.5')
CBL421-13A	C5(4'),C3(6.375')
CBL421-16A	C8(3.5'),C5(4'),C4(6.375')
CBL421-18A	C8(3.5'),C5(4'),C4(6.375')
CBL421-21A	C7(4'),C3(6.375')
CBL421-23A	C7(4'),C3(6.375')
CBL421-26A	C7(4'),C3(6.375')
CBL421-28A	C7(4'),C3(6.375')
CBL421-31A	C7(4'),C3(6.375')
CBL421-33A	C8(3.5'),C7(4')
CBL421-36A	C7(4'),C3(6.375')
CBL421-38A	C7(4'),C3(6.375')
CBL421-41A	C7(4'),C3(6.375')
CBL421-43A	C7(4'),C3(6.375')
CBL421-46A	C7(4'),C3(6.375')
CBL421-48A	C7(4'),C3(6.375')
CBL422-06A	C8(3.5'),C5(4'),C4(6.375')
CBL422-08A	C8(3.5'),C5(4'),C4(6.375')
CBL422-11A	C8(3.5'),C5(4'),C4(6.375')
CBL422-13A	C8(3.5'),C5(4'),C4(6.375')
CBL422-16A	C5(4'),C3(6.375')
CBL422-18A	C5(4'),C3(6.375')
CBL422-21A	C5(4'),C3(6.375'),C11(3.5')
CBL422-23A	C5(4'),C3(6.375'),C11(3.5')
CBL422-26A	C5(4'),C3(6.375'),C11(3.5')
CBL422-28A	C5(4'),C3(6.375'),C11(3.5')
CBL422-31A	C7(4')
CBL422-33A	C7(4')
CBL422-36A	C7(4')
CBL422-38A	C7(4')
CBL422-41A	C7(4')
CBL423-16A	C7(4'),C4(6.375')
CBL423-18A	C7(4'),C4(6.375')
CBL423-21A	C5(4'),C3(6.375'),C11(3.5')
CBL423-23A	C5(4'),C3(6.375'),C11(3.5')
CBL423-26A	C7(4')
CBL423-28A	C7(4')
CBL423-31A	C7(4')
CBL423-33A	C7(4')
CBL423-36A	C7(4'),C4(6.375')
CBL424-01A	C5(4'),C3(6.375'),C2(6.375'),C11(3.5')
CBL424-11A	C5(4'),C3(6.375'),C11(3.5')
CBL424-16A	C7(4')
CBL424-21A	C5(4'),C3(6.375'),C11(3.5')
CBL424-26A	C7(4'),C4(6.375')
CBL424-28A	C8(3.5'),C5(4'),C4(6.375')
CBL501-03A	C2(6.375'),C11(3.5')
CBL502-12A	C7(4'),C2(6.375'),C11(3.5')

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REVISION HISTORY		ENGINEER	RELEASE DATE
REV	DATE	Jeremy Keene	2/14/2025
A	1/20/2025		



DWG TITLE
**TOPIDERM CONTRACT MANUFACTURING
TOWELETTE PACKETS
BOXING MACHINE
MACHINE LAYOUT ~ WIREWAY ROUTING**

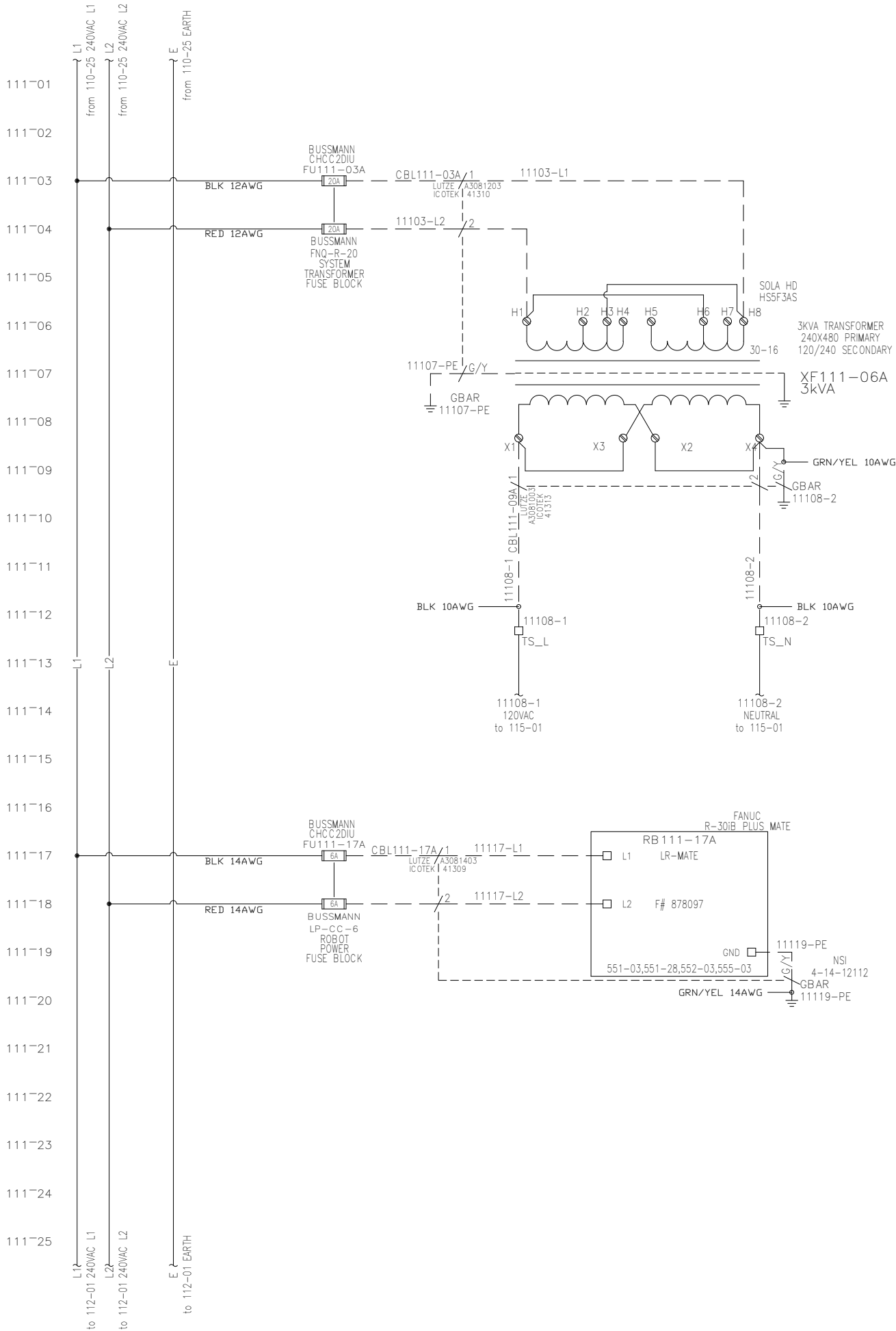
ENGINEER J. KEENE	CHECKED BY J.C.K
JOB NO B16821	DRAWN BY J.K
SCALE N.T.S.	DATE 10/2024

DWG NO
B16821- E050

ELECTRICAL	SHEET
OVERVIEW	50



DWG TITLE	
OPIDERM CONTRACT MANUFACTURING	
TOWELETTE PACKETS	
BOXING MACHINE	
1-PHASE DISTRIBUTION	
ENGINEER	CHECKED BY
J. KEENE	J.C.K
NO	DRAWN BY
B16821	J.K.
DATE	DATE
N.T.S.	10/2024
NO	
B16821-E110	
ELECTRICAL SHEET	
-PHASE AC DISTRIBUTION 110	



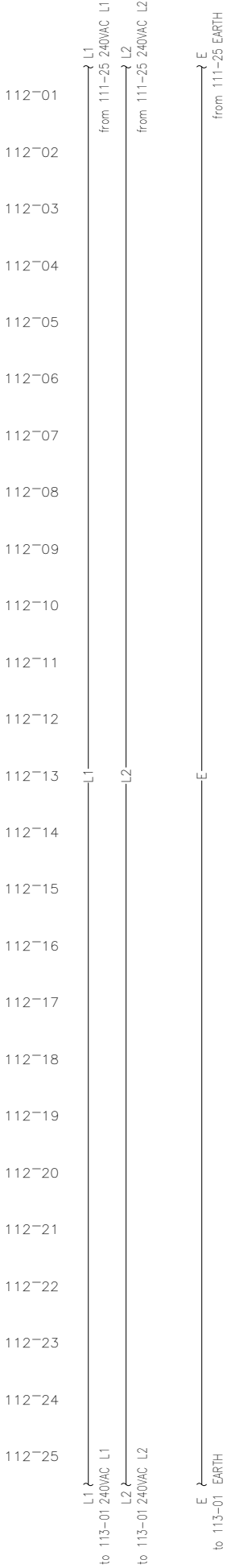
7/7/2025 9:34:59 AM, Jared.keene, ***** AS BUILT *****

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REVISION HISTORY			
REV	DATE	STATE	RELEASE DATE
A	1/20/2025	RELEASED	2/14/2025
		ENGINEER	Jeremy Keene



DWG. TITLE			
TOPIDERM CONTRACT MANUFACTURING			
TOWELETTE PACKETS			
BOXING MACHINE			
1-PHASE DISTRIBUTION			
ENGINEER		CHECKED BY	
J. KEENE		J.C.K	
JOB NO		DRAWN BY	
B16821		J.K.	
SCALE		DATE	
N.T.S.		10/2024	
DWG. NO			
B16821- E111			
ELECTRICAL		SHEET	
1-PHASE AC DISTRIBUTION 111			



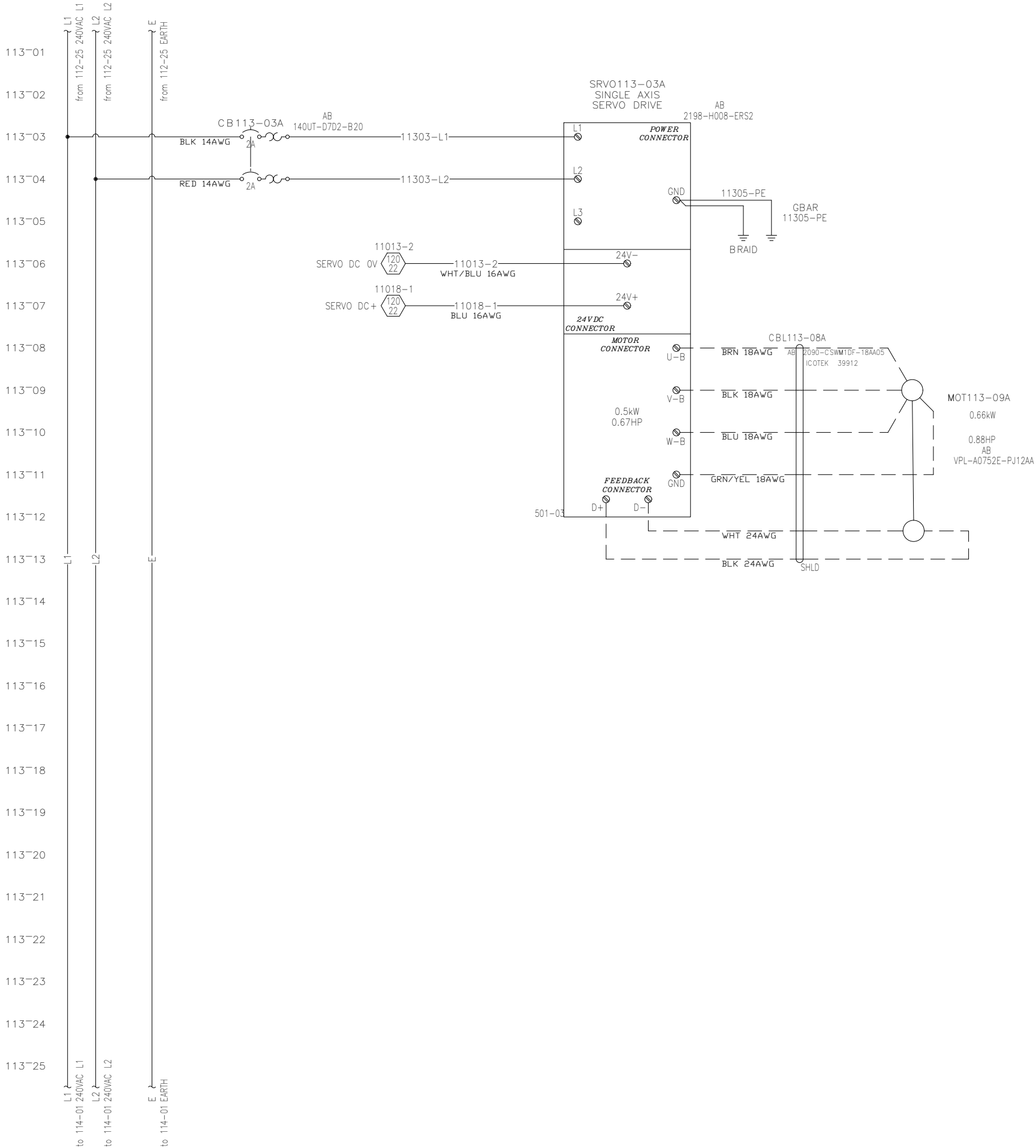
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DWG. TITLE
TOPIDERM CONTRACT MANUFACTURING
TOWELETTE PACKETS
BOXING MACHINE
1-PHASE DISTRIBUTION

ENGINEER J. KEENE	CHECKED BY J.C.K
JOB NO B16821	DRAWN BY J.K.
SCALE N.T.S.	DATE 10/2024
DWG NO B16821- E112	
ELECTRICAL	SHEET
1-PHASE AC DISTRIBUTION	112

REVISION HISTORY			
REV	DATE	STATE	RELEASE DATE
A	1/20/2025	RELEASED	2/14/2025

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7/7/2025 9:35:05 AM, Jared.keene, ***** AS BUILT *****

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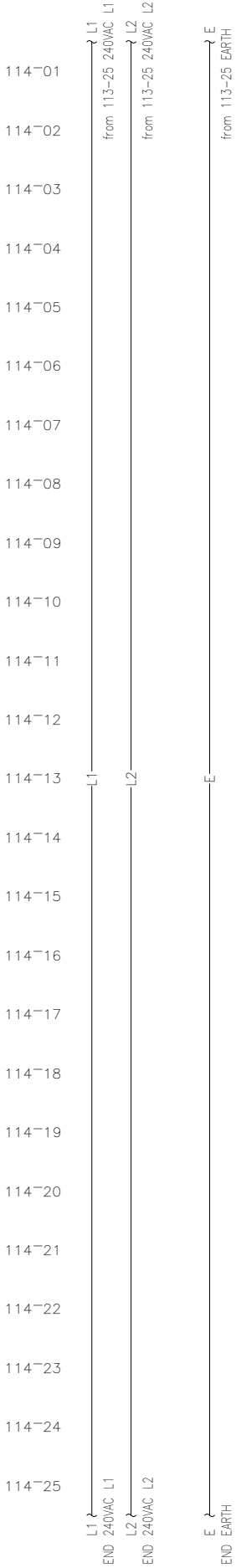
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REVISION HISTORY			
REV	DATE	STATE	RELEASE DATE
A	1/20/2025	RELEASED	2/14/2025
		ENGINEER	Jeremy Keene



DWG TITLE
TOPIDERM CONTRACT MANUFACTURING
TOWELETTE PACKETS
BOXING MACHINE
1-PHASE DISTRIBUTION

ENGINEER J. KEENE	CHECKED BY J.C.K
JOB NO B16821	DRAWN BY J.K.
SCALE N.T.S.	DATE 10/2024
DWG NO B16821- E113	
ELECTRICAL	SHEET
1-PHASE AC DISTRIBUTION	113



RESERVED
FOR SERVO

REVISION HISTORY			
REV	DATE	STATE	RELEASE DATE
A	1/20/2025	RELEASED	2/14/2025
ENGINEER Jeremy Keene			

DWG TITLE

TOPIDERM CONTRACT MANUFACTURING
TOWELETTE PACKETS
BOXING MACHINE
1-PHASE DISTRIBUTION

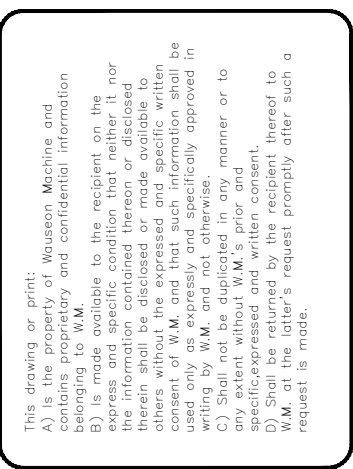
ENGINEER J. KEENE	CHECKED BY J.C.K
JOB NO B16821	DRAWN BY J.K
SCALE N.T.S.	DATE 10/2024
DWG NO B16821- E114	
ELECTRICAL	SHEET
1-PHASE AC DISTRIBUTION	114



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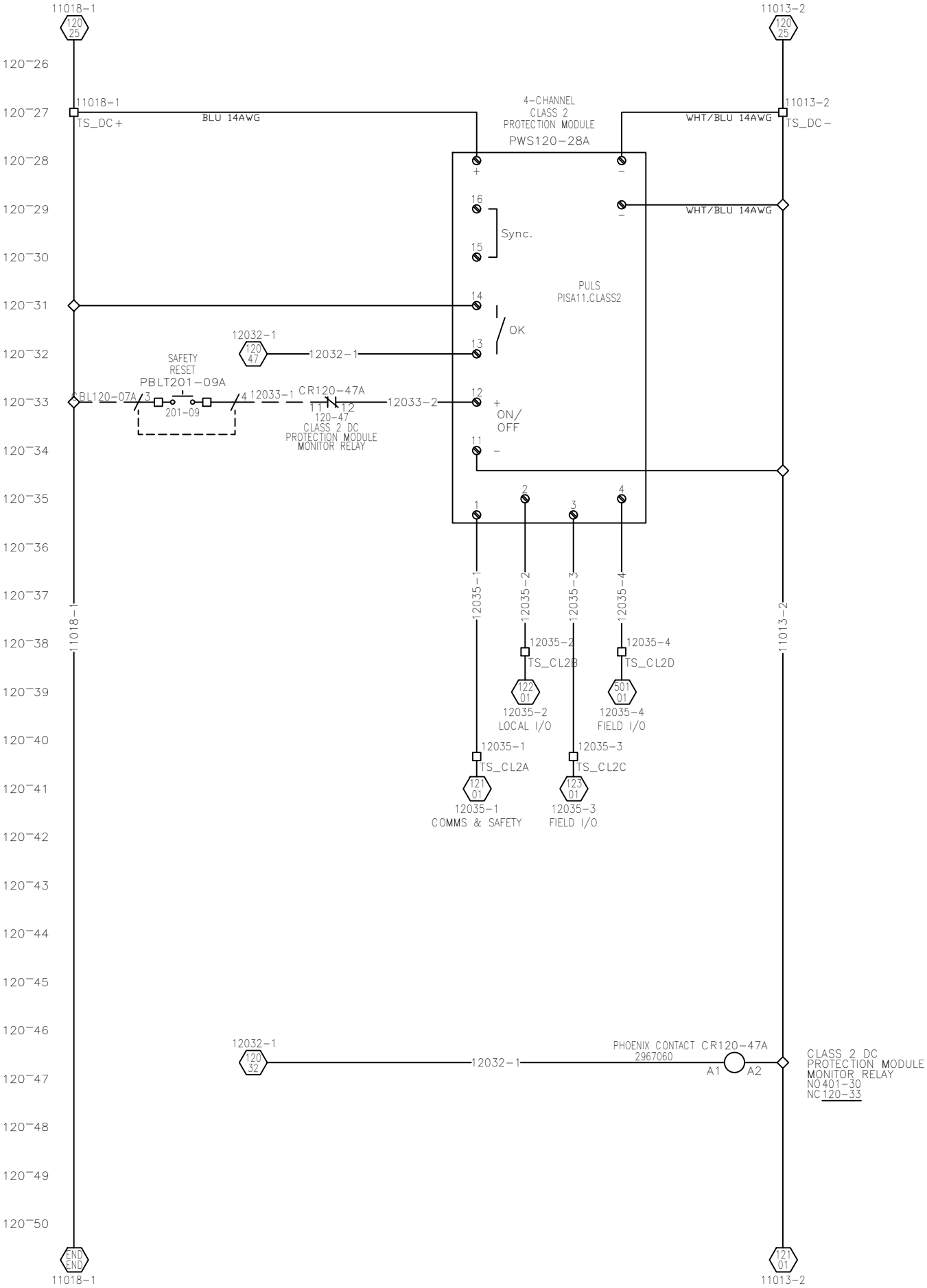
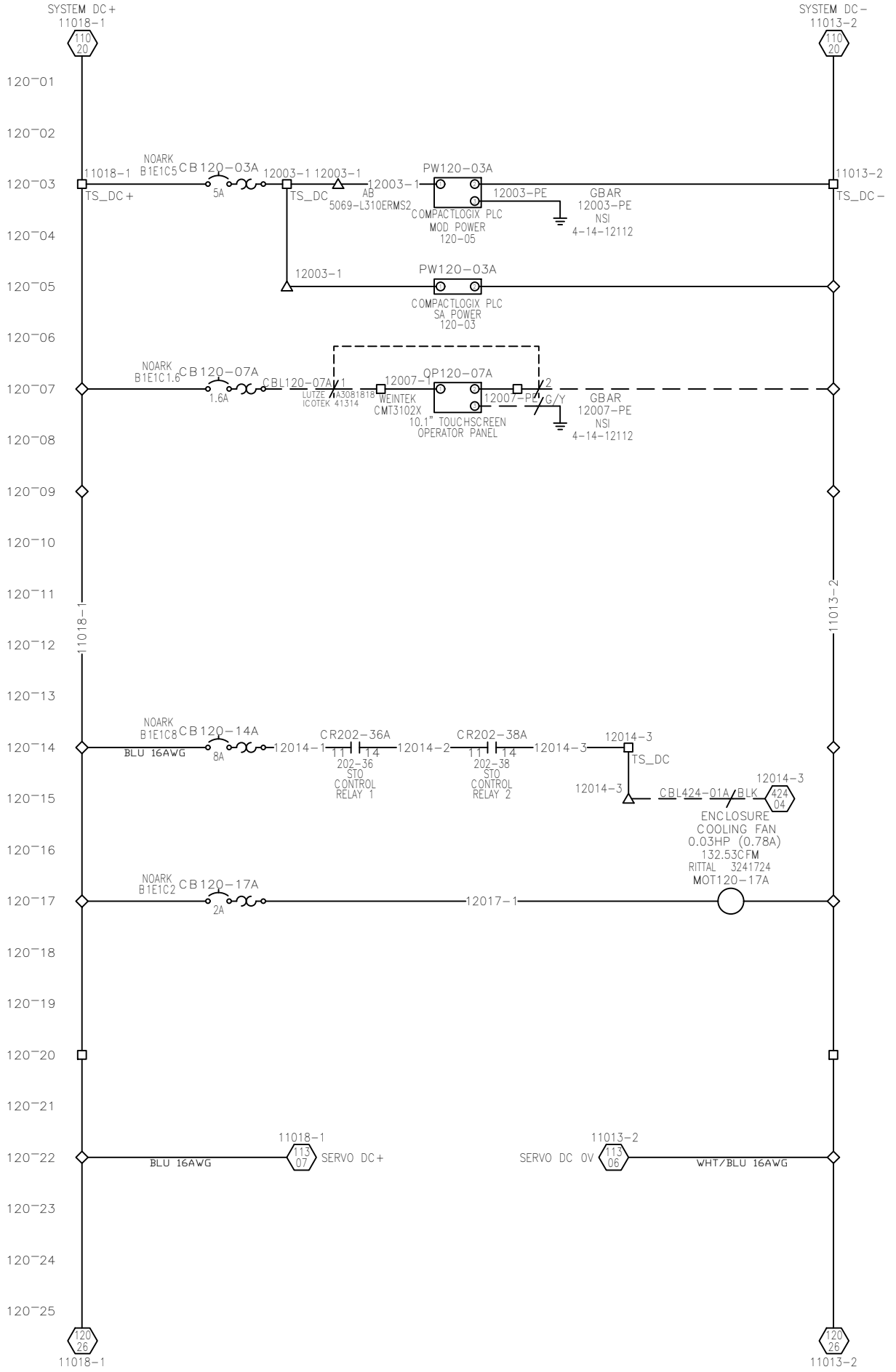
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REVISION HISTORY				
REV.	DATE	STATE	ENGINEER	RELEASE DATE
A	1/20/2025	RELEASED	Jeremy Kenne	2/14/2025

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MFGO



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REVISION HISTORY		ENGINEER	
REV	DATE	STATE	RELEASED
A	1/20/2025	Jeremy Keene	2/14/2025



DWG. TITLE	
TOPIDERM CONTRACT MANUFACTURING TOWELETTE PACKETS BOXING MACHINE 24VDC DISTRIBUTION	
ENGINEER J. KEENE	CHECKED BY J.C.K
JOB NO B16821	DRAWN BY J.K.
SCALE N.T.S.	DATE 10/2024
DWG NO B16821- E120	
ELECTRICAL	SHEET
DC DISTRIBUTION	120



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(C) shall not be duplicated in any manner or to any extent without W.M.'s prior and specific expressed and written consent.

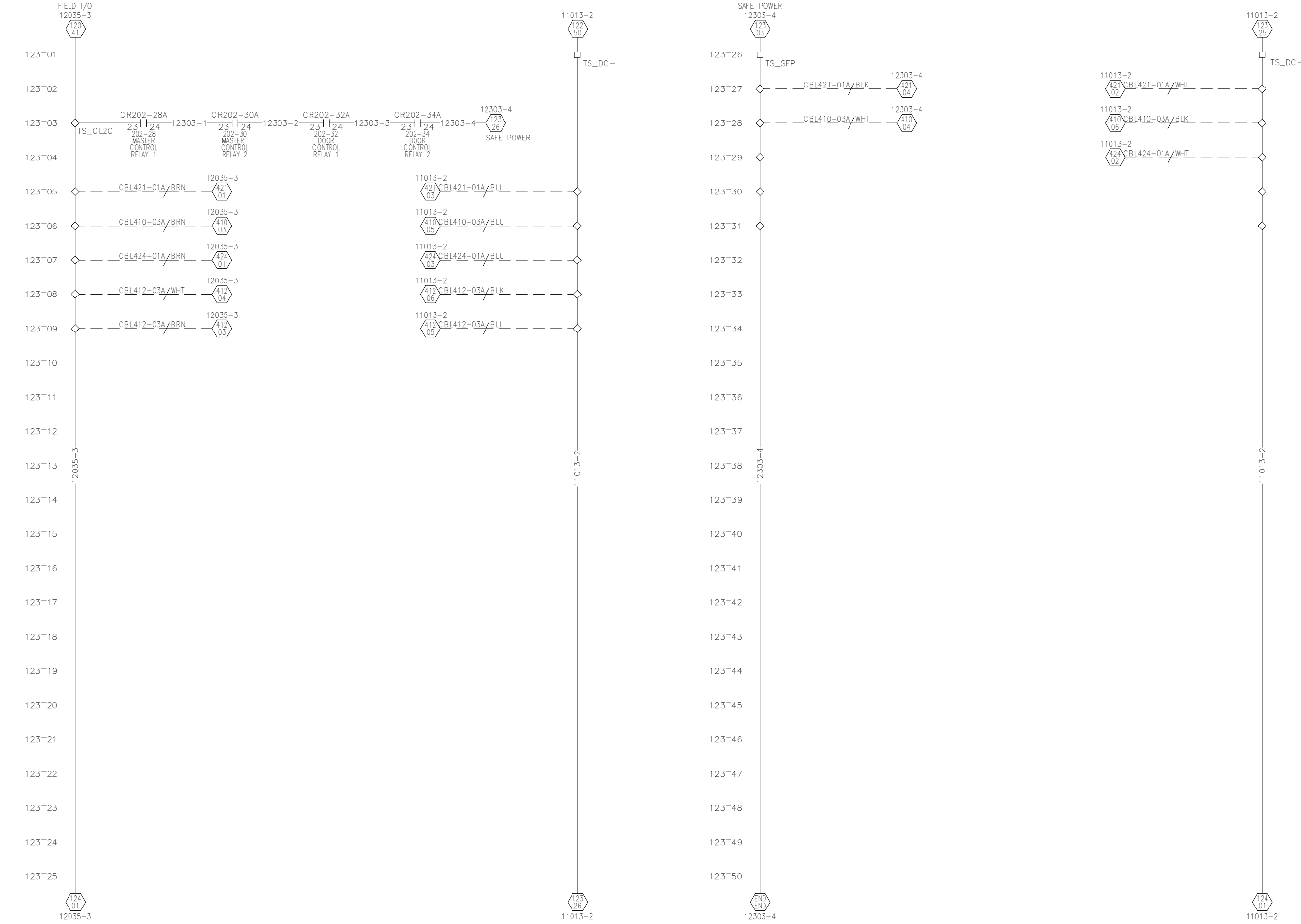
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DWG TITLE TOPIDERM CONTRACT MANUFACTURING	
TOWELETTE PACKETS	
BOXING MACHINE	
24VDC DISTRIBUTION	
ENGINEER J. KEENE	CHECKED BY J.C.K
JOB NO B16821	DRAWN BY J.K
SCALE N.T.S.	DATE 10/2024
DWG NO B16821-E121	
ELECTRICAL	SHEET
DC DISTRIBUTION	121



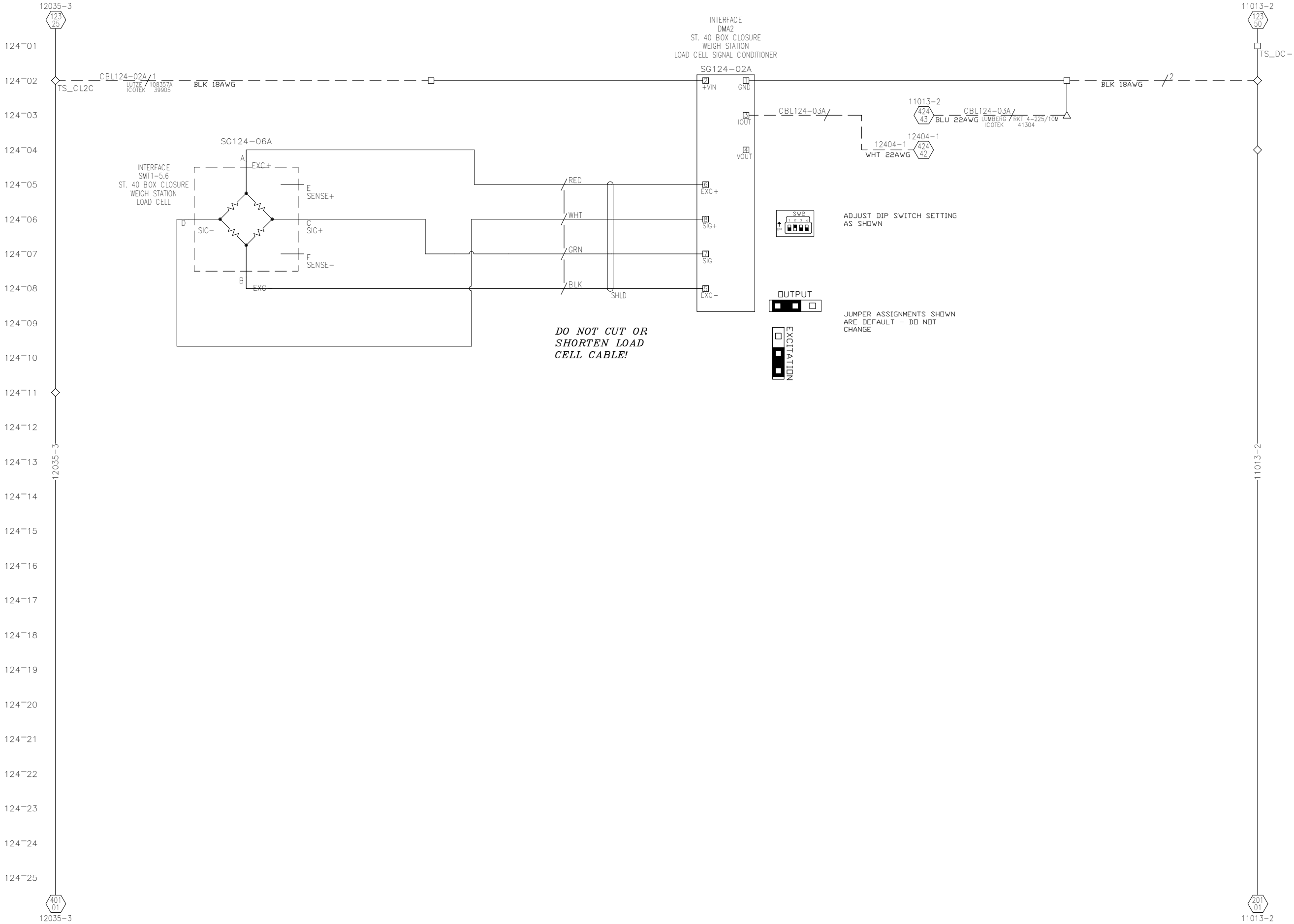
7/7/2025 9:35:24 AM, Jared.keene, ***** AS BUILT *****

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REVISION HISTORY			
REV	DATE	STATE	RELEASE DATE
A	1/20/2025	RELEASED	2/14/2025
ENGINEER		Jeremy Keene	

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DWG. TITLE	
TOPIDERM CONTRACT MANUFACTURING TOWELETTE PACKETS BOXING MACHINE 24VDC DISTRIBUTION	
ENGINEER J. KEENE	CHECKED BY J.C.K
JOB NO B16821	DRAWN BY J.K.
SCALE N.T.S.	DATE 10/2024
DWG NO B16821- E123	
ELECTRICAL DC DISTRIBUTION	SHEET 123



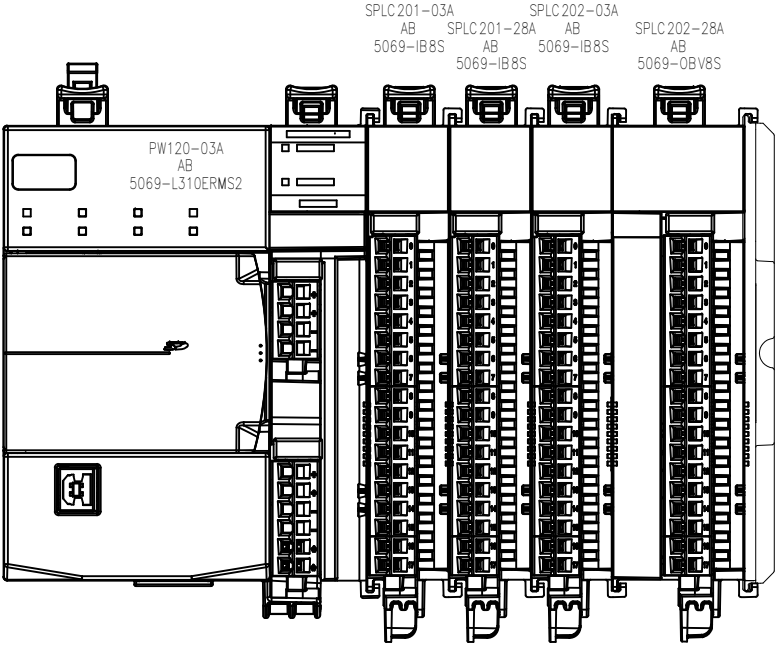
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REVISION HISTORY			
REV	DATE	ENGINEER	RELEASE DATE
A	1/20/2025	Jeremy Keene	2/14/2025



DWG. TITLE	
TOPIDERM CONTRACT MANUFACTURING TOWELETTE PACKETS BOXING MACHINE WEIGH STATION LOAD CELL	
ENGINEER J. KEENE	CHECKED BY J.C.K
JOB NO B16821	DRAWN BY J.K.
SCALE N.T.S.	DATE 10/2024
DWG. NO B16821- E124	
ELECTRICAL DC DISTRIBUTION	SHEET 124

200~01
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200~03
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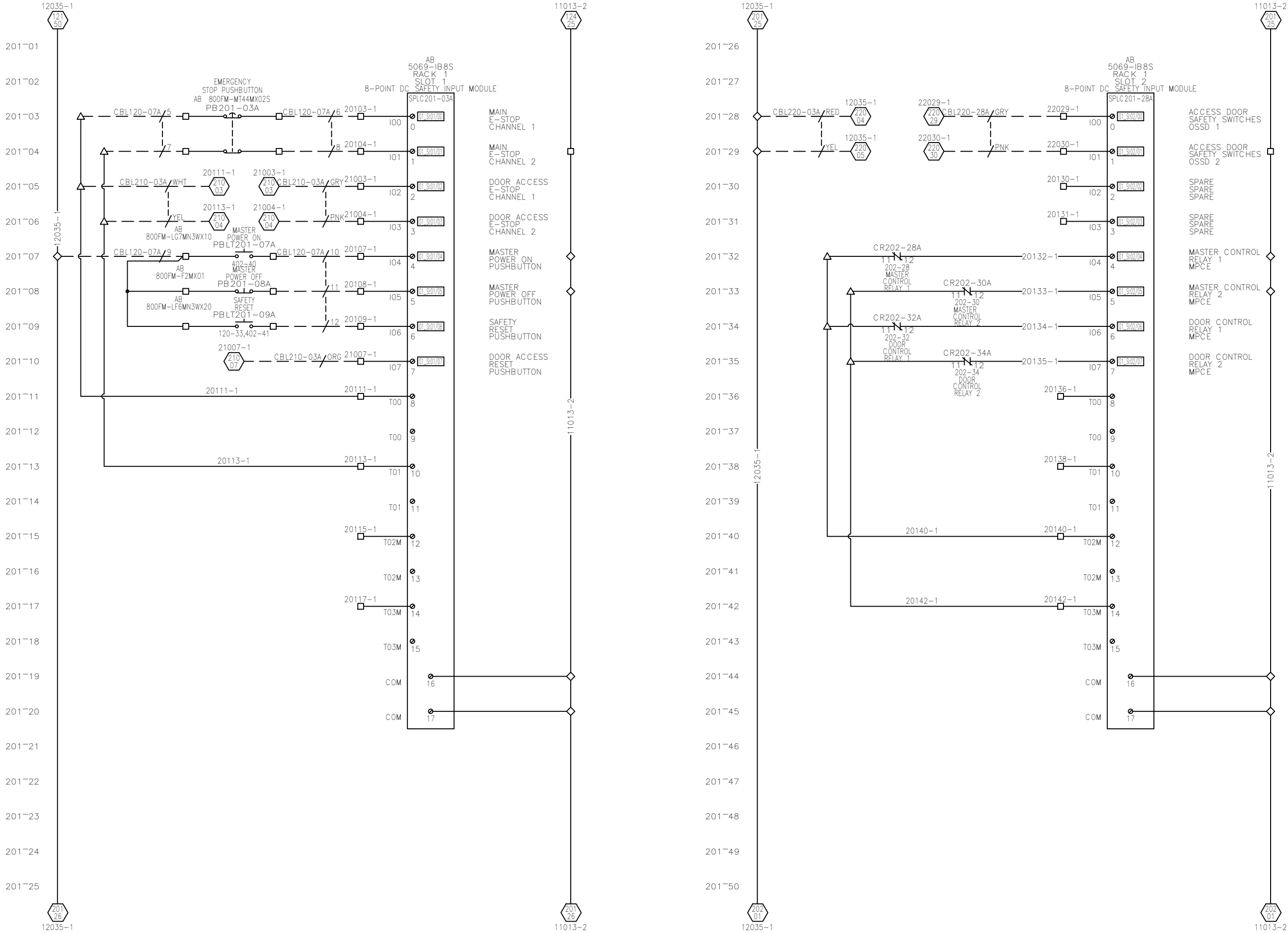
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REVISION HISTORY			
REV	DATE	STATE	ENGINEER
A	1/20/2025	RELEASED	Jeremy Keene



DWG. TITLE	
TOPIDERM CONTRACT MANUFACTURING TOWELETTE PACKETS BOXING MACHINE SAFETY I/O LAYOUT	
ENGINEER J. KEENE	CHECKED BY J.C.K
JOB NO B16821	DRAWN BY J.K.
SCALE N.T.S.	DATE 10/2024
DWG NO B16821- E200	
ELECTRICAL SAFETY	SHEET 200



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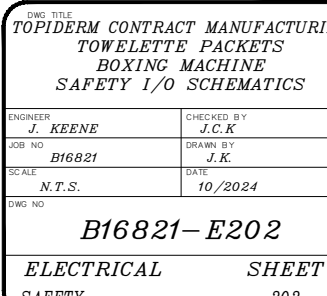
REVISION HISTORY		ENGINEER	RELEASE DATE
REV	DATE	STATE	RELEASED
A	1/20/2025	Jeremy Keene	2/14/2025

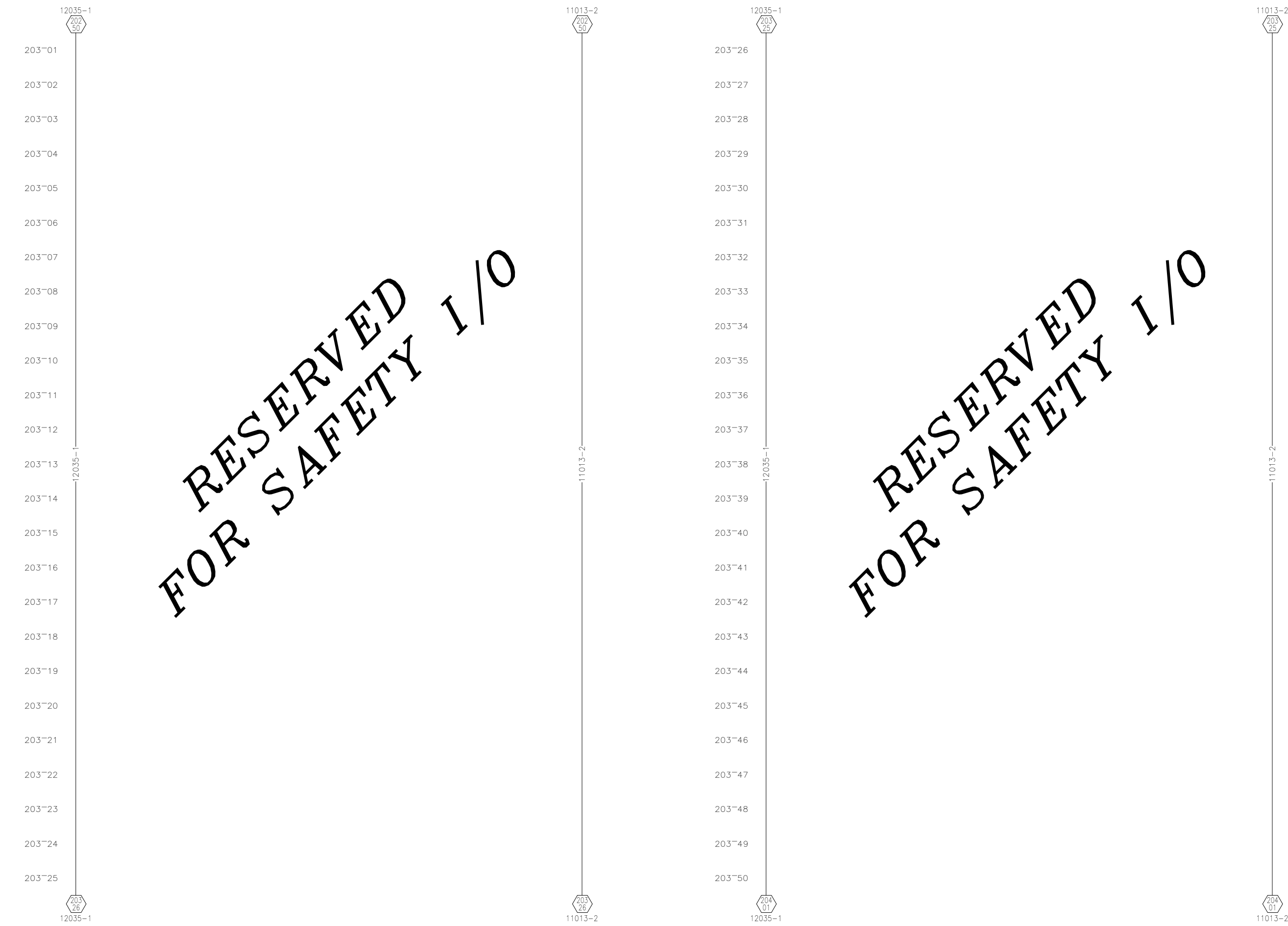


DWG. TITLE
TOPIDERM CONTRACT MANUFACTURING
TOWELETTE PACKETS
BOXING MACHINE
SAFETY I/O SCHEMATICS

ENGINEER J. KEENE	CHECKED BY J.C.K.
JOB NO B16821	DRAWN BY J.K.
SCALE N.T.S.	DATE 10/20/2024

DWG NO
B16821- E201
ELECTRICAL SHEET
SAFETY 201





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REVISION HISTORY			
REV	DATE	STATE	RELEASE DATE
A	1/20/2025	RELEASED	2/14/2025
		ENGINEER	Jeremy Keene

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DWG. TITLE	
TOPIDERM CONTRACT MANUFACTURING TOWELETTE PACKETS BOXING MACHINE SAFETY I/O SCHEMATICS	
ENGINEER J. KEENE	CHECKED BY J.C.K
JOB NO B16821	DRAWN BY J.K.
SCALE N.T.S.	DATE 10/2024
DWG NO B16821- E203	
ELECTRICAL SAFETY	SHEET 203



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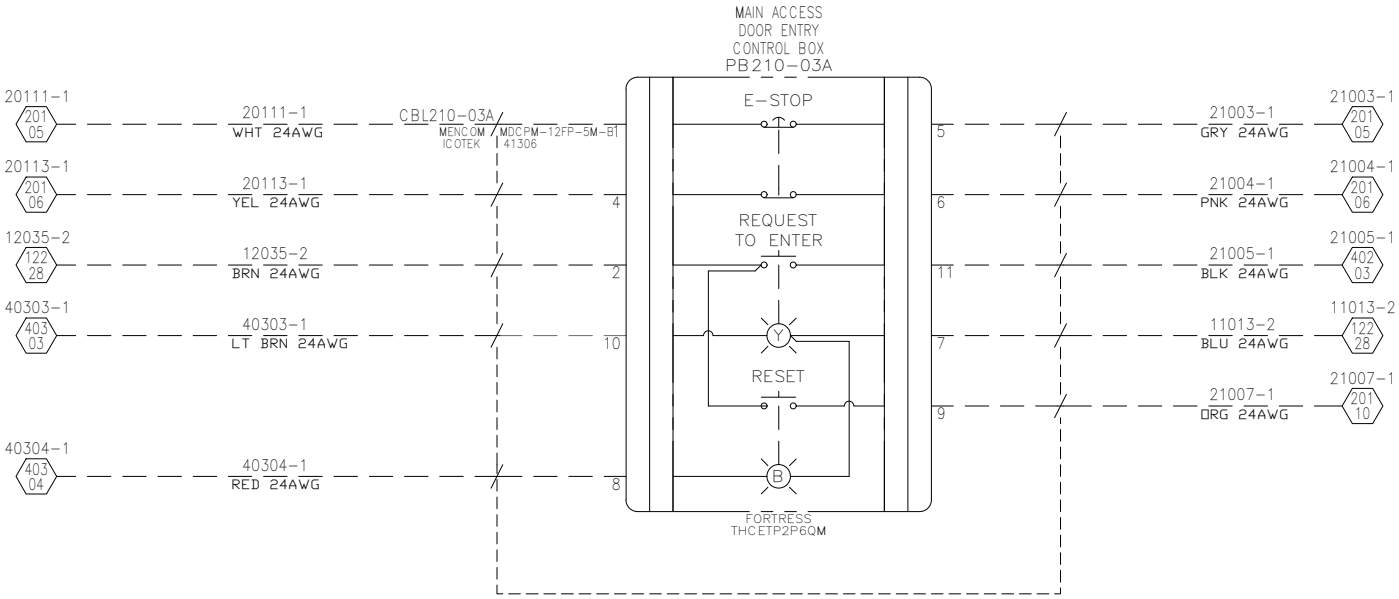
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B16821-E204

ELECTRICAL SAFETY

SHEET
204

210-01
210-02
210-03
210-04
210-05
210-06
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210-25



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REVISION HISTORY			
REV	DATE	STATE	RELEASE DATE
A	1/20/2025	RELEASED	2/14/2025
		ENGINEER	Jeremy Keene



DWG TITLE
TOPIDERM CONTRACT MANUFACTURING
TOWELETTE PACKETS
BOXING MACHINE
DOOR ACCESS CONTROL BOX

ENGINEER
J. KEENE

CHECKED BY
J.C.K

JOB NO
B16821

DRAWN BY
J.K.

SCALE
N.T.S.

DATE
10/2024

DWG NO
B16821- E210

ELECTRICAL
SAFETY

SHEET
210

215~01

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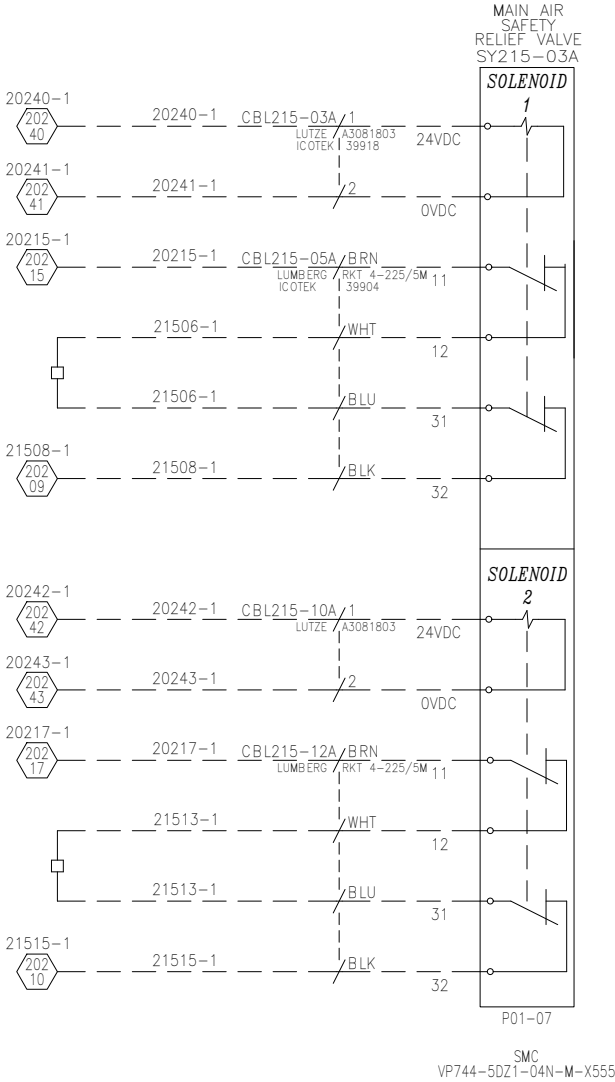
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REVISION HISTORY			
REV	DATE	STATE	RELEASE DATE
A	1/20/2025	RELEASED	2/14/2025
		ENGINEER	Jeremy Keene



DWG TITLE
TOPIDERM CONTRACT MANUFACTURING
TOWELETTE PACKETS
BOXING MACHINE
SAFETY RELIEF VALVE

ENGINEER J. KEENE	CHECKED BY J.C.K
JOB NO B16821	DRAWN BY J.K.
SCALE N.T.S.	DATE 10/2024
DWG NO B16821- E215	
ELECTRICAL SAFETY	SHEET 215

220~01

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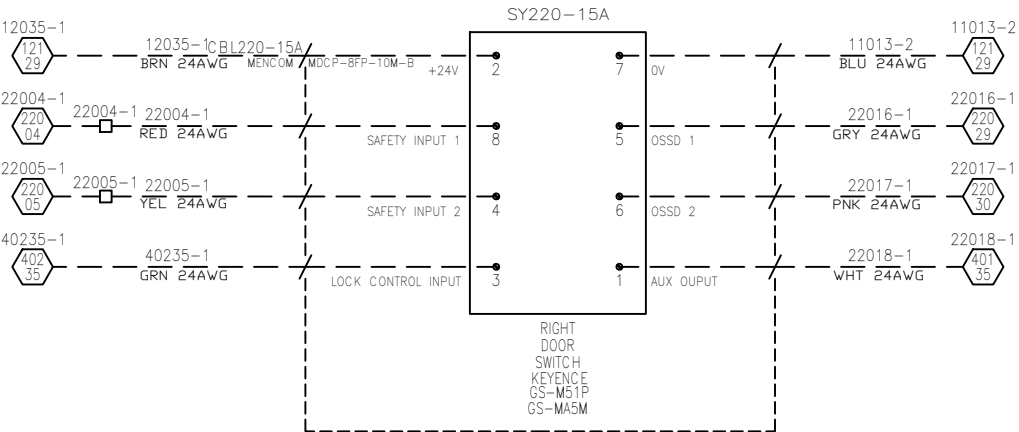
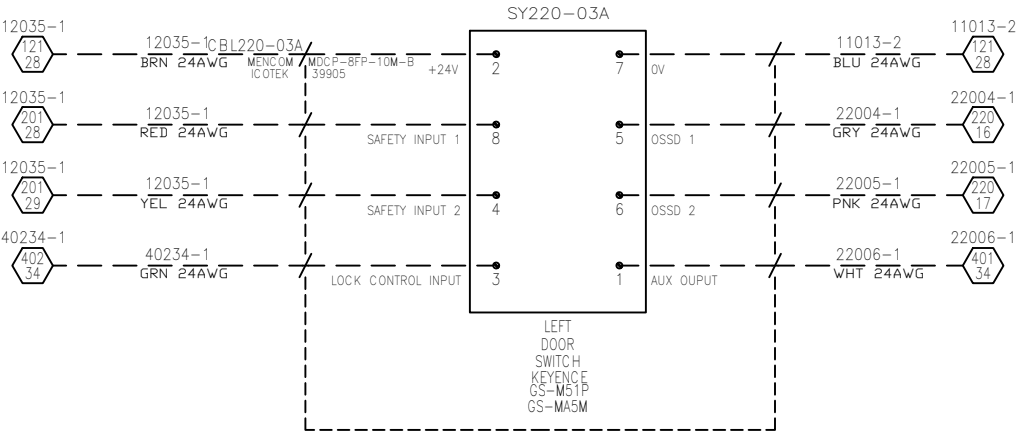
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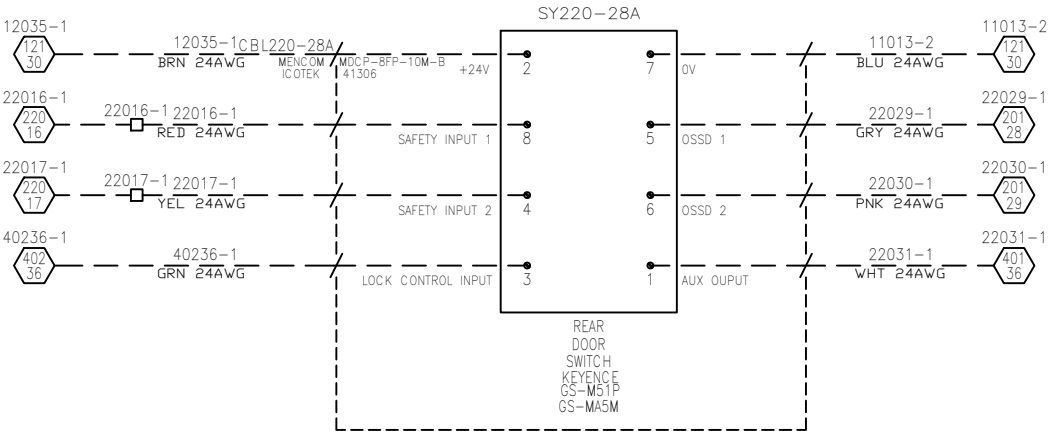
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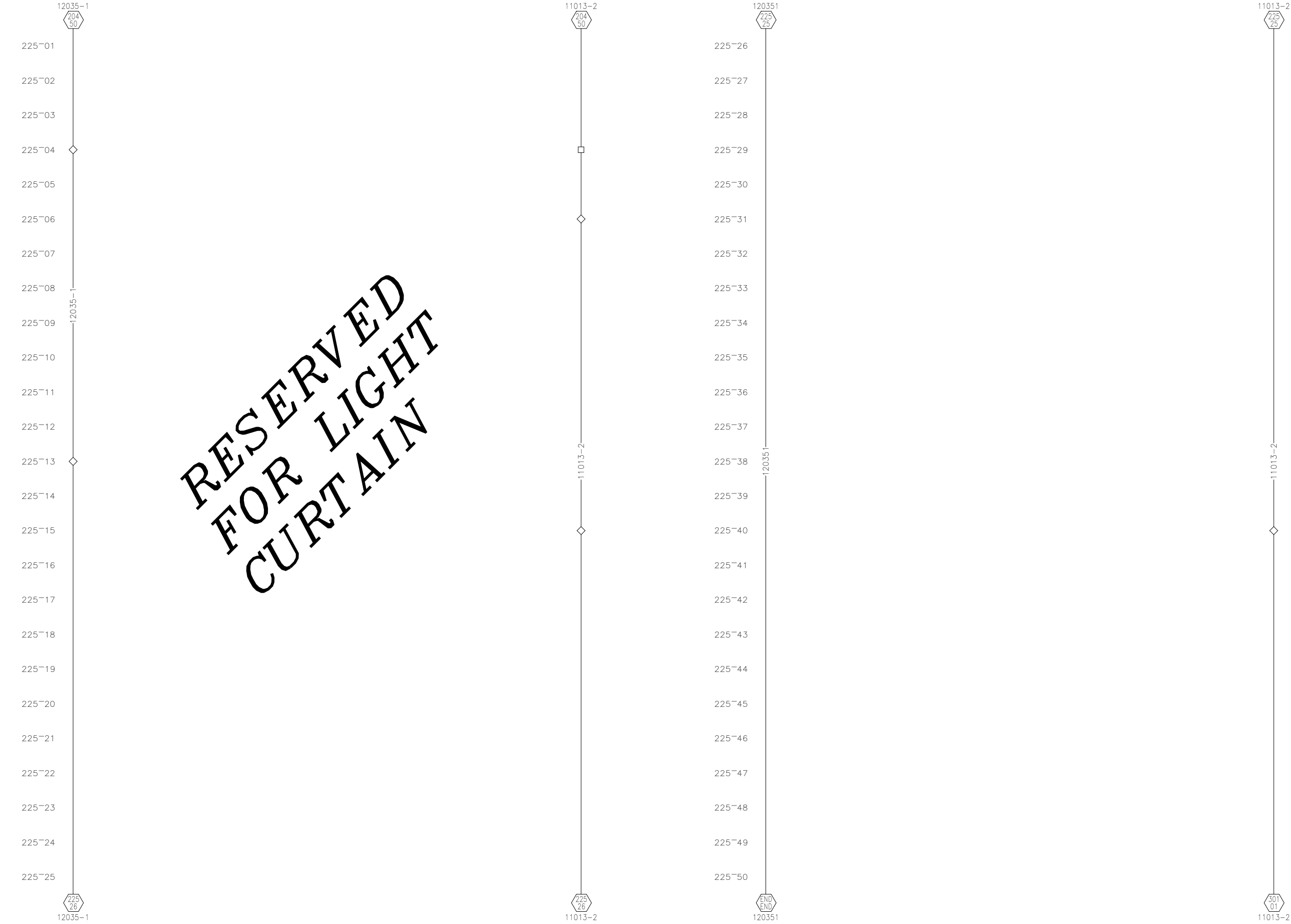
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REVISION HISTORY			
REV	DATE	ENGINEER	RELEASE DATE
A	1/20/2025	Jeremy Keene	2/14/2025



DWG. TITLE	
TOPIDERM CONTRACT MANUFACTURING TOWELETTE PACKETS BOXING MACHINE DOOR SWITCHES	
ENGINEER J. KEENE	CHECKED BY J.C.K
JOB NO B16821	DRAWN BY J.K.
SCALE N.T.S.	DATE 10/2024
DWG NO B16821- E220	
ELECTRICAL SAFETY	SHEET 220

RESERVED
FOR LIGHT
CURTAIN



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REVISION HISTORY			
REV	DATE	STATE	RELEASE DATE
A	1/20/2025	RELEASED	2/14/2025
		ENGINEER	Jeremy Keene



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DWG. TITLE
**TOPIDERM CONTRACT MANUFACTURING
TOWELETTE PACKETS
BOXING MACHINE
LIGHT CURTAINS**

ENGINEER J. KEENE	CHECKED BY J.C.K
JOB NO B16821	DRAWN BY J.K.
SCALE N.T.S.	DATE 10/2024

DWG NO
B16821- E225

ELECTRICAL	SHEET
SAFETY	225

300~01

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RESERVED
FOR RACK I/O

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REVISION HISTORY			
REV	DATE	STATE	ENGINEER
A	1/20/2025	RELEASED	Jeremy Keene



DWG TITLE	
TOPIDERM CONTRACT MANUFACTURING TOWELETTE PACKETS BOXING MACHINE PLC RACK LAYOUT	
ENGINEER J. KEENE	CHECKED BY J.C.K
JOB NO B16821	DRAWN BY J.K.
SCALE N.T.S.	DATE 10/2024
DWG NO B16821– E300	
ELECTRICAL LOCAL IO	SHEET 300

RESERVED
FOR I/O

RESERVED
FOR I/O

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REVISION HISTORY			
REV	DATE	STATE	RELEASE DATE
A	1/20/2025	RELEASED	2/14/2025
ENGINEER		Jeremy Keene	



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DWG. TITLE	
TOPIDERM CONTRACT MANUFACTURING TOWELETTE PACKETS BOXING MACHINE LOCAL I/O SCHEMATICS	
ENGINEER J. KEENE	CHECKED BY J.C.K
JOB NO B16821	DRAWN BY J.K.
SCALE N.T.S.	DATE 10/2024
DWG NO B16821- E301	
ELECTRICAL LOCAL IO	SHEET 301

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FOR I/O

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FOR I/O

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REVISION HISTORY			
REV	DATE	STATE	RELEASE DATE
A	1/20/2025	RELEASED	2/14/2025
		ENGINEER	Jeremy Keene



DWG. TITLE	
TOPIDERM CONTRACT MANUFACTURING TOWELETTE PACKETS BOXING MACHINE LOCAL I/O SCHEMATICS	
ENGINEER J. KEENE	CHECKED BY J.C.K
JOB NO B16821	DRAWN BY J.K.
SCALE N.T.S.	DATE 10/2024
DWG NO B16821- E302	
ELECTRICAL LOCAL IO	SHEET 302

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FOR I/O

RESERVED
FOR I/O

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REVISION HISTORY			
REV	DATE	STATE	RELEASE DATE
A	1/20/2025		2/14/2025
		ENGINEER	Jeremy Keene
		RELEASED	



DWG. TITLE	
TOPIDERM CONTRACT MANUFACTURING TOWELETTE PACKETS BOXING MACHINE LOCAL I/O SCHEMATICS	
ENGINEER J. KEENE	CHECKED BY J.C.K
JOB NO B16821	DRAWN BY J.K.
SCALE N.T.S.	DATE 10/2024
DWG NO B16821- E303	
ELECTRICAL LOCAL IO	SHEET 303

RESERVED
FOR I/O

RESERVED
FOR I/O

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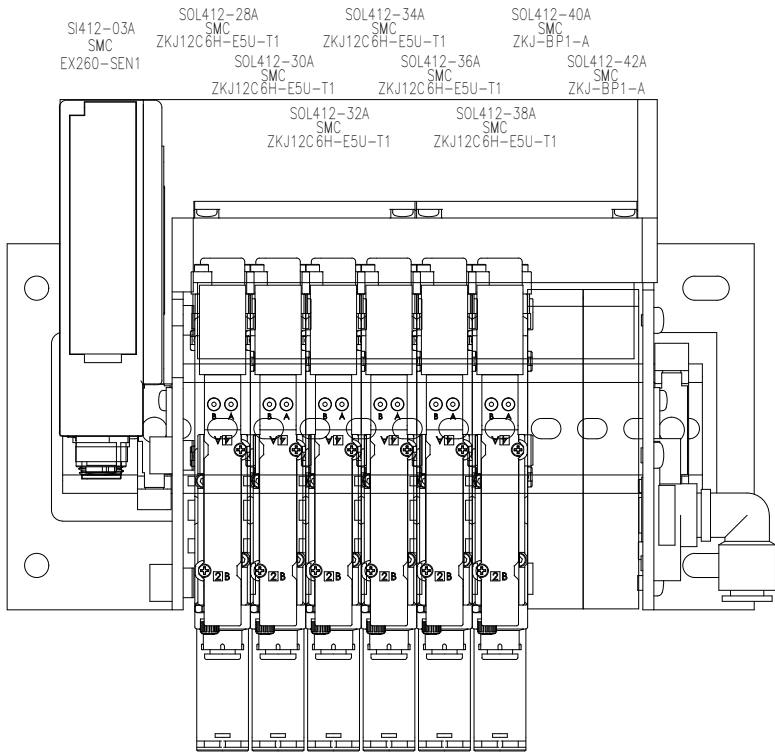
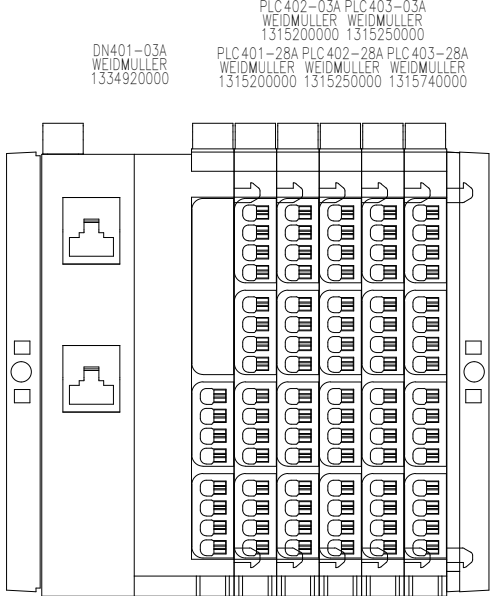
REVISION HISTORY			
REV	DATE	STATE	RELEASE DATE
A	1/20/2025	RELEASED	2/14/2025
ENGINEER		Jeremy Keene	



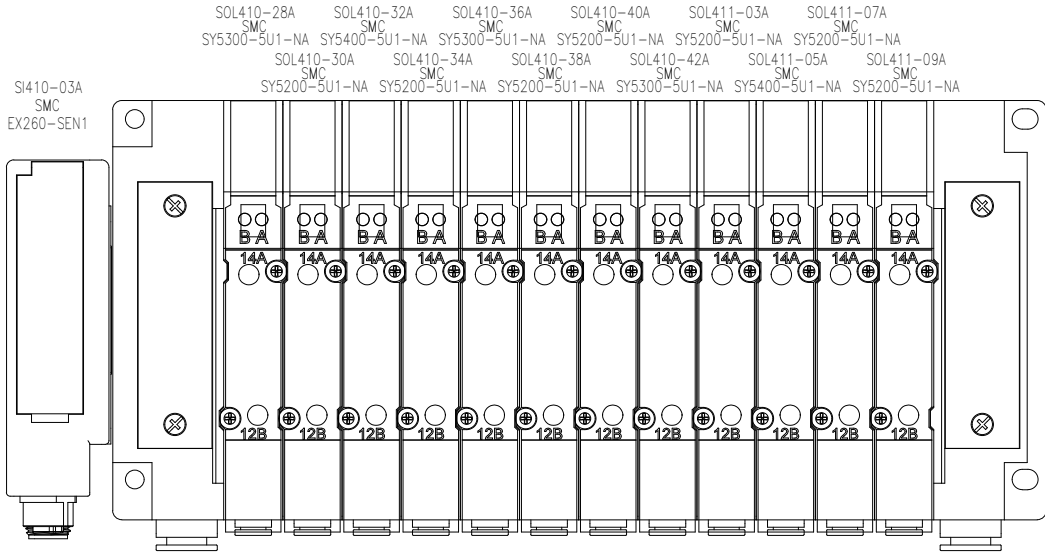
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DWG. TITLE	
TOPIDERM CONTRACT MANUFACTURING TOWELETTE PACKETS BOXING MACHINE LOCAL I/O SCHEMATICS	
ENGINEER J. KEENE	CHECKED BY J.C.K
JOB NO B16821	DRAWN BY J.K.
SCALE N.T.S.	DATE 10/2024
DWG NO B16821– E304	
ELECTRICAL LOCAL IO	SHEET 304

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PNEU-MNF412-28A
SMC
ZZKJ06-EAN-L8



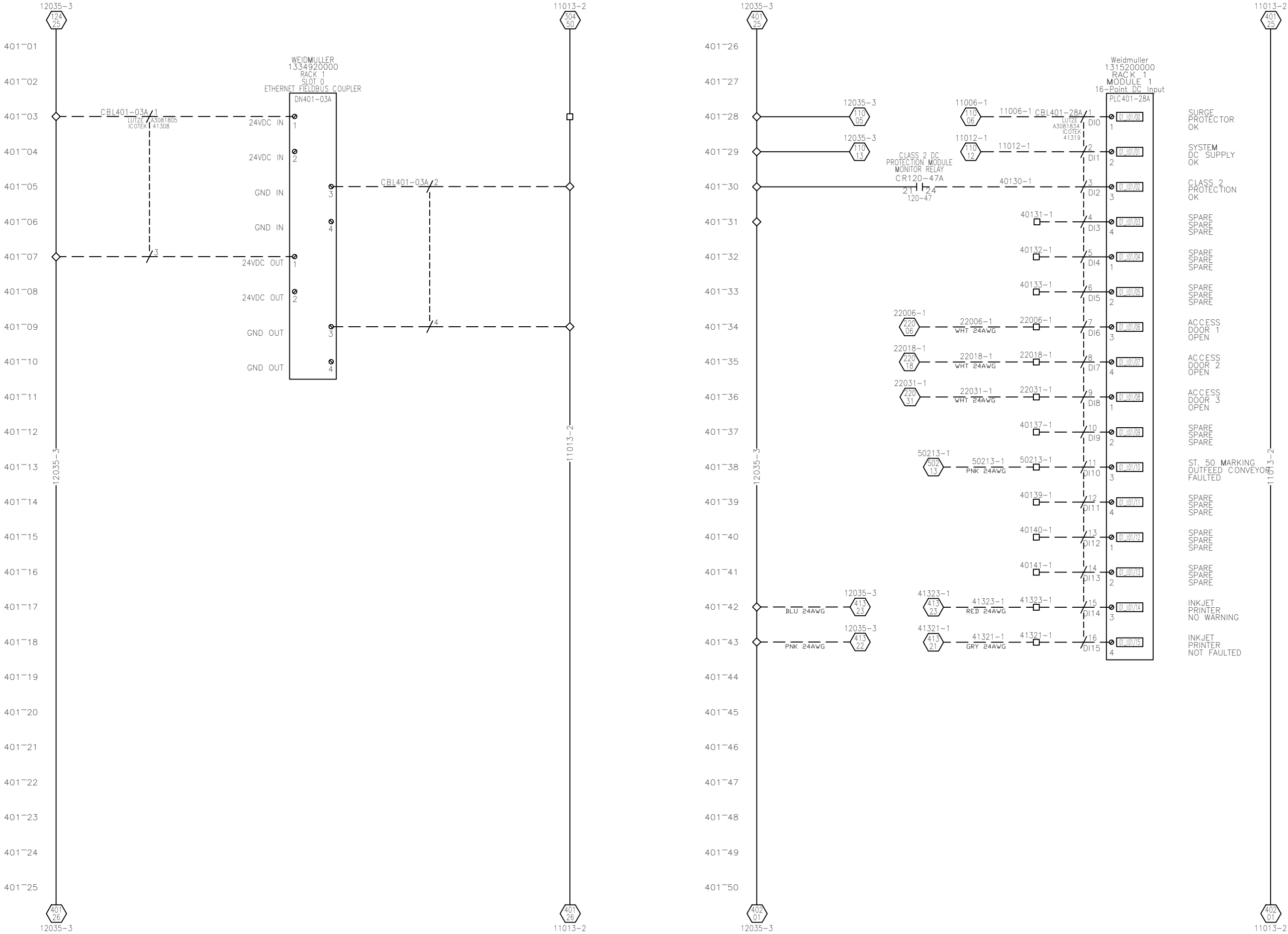
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SMC
SS5Y5-10S0-12B-C6

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REVISION HISTORY			
REV	DATE	STATE	RELEASE DATE
A	1/20/2025	RELEASED	2/14/2025
ENGINEER		Jeremy Keene	

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DWG. TITLE	
TOPIDERM CONTRACT MANUFACTURING TOWELETTE PACKETS BOXING MACHINE REMOTE I/O DEVICES	
ENGINEER J. KEENE	CHECKED BY J.C.K
JOB NO B16821	DRAWN BY J.K.
SCALE N.T.S.	DATE 10/2024
DWG NO B16821- E400	
ELECTRICAL REMOTE IO	SHEET 400

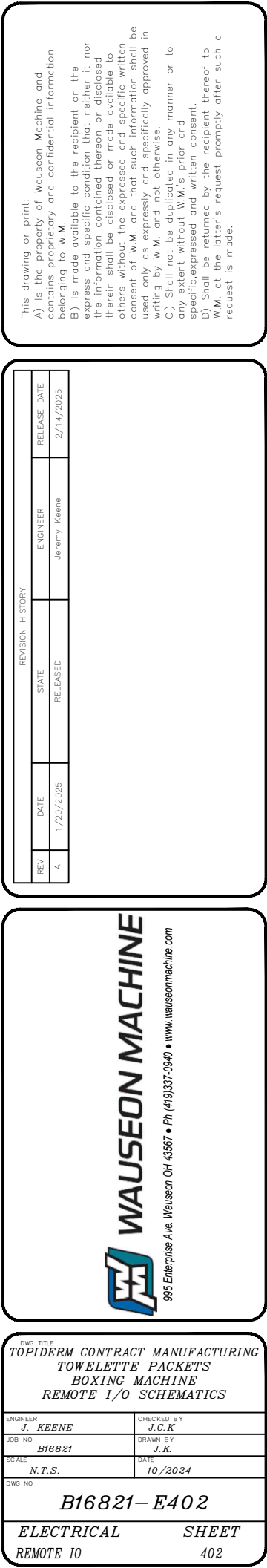


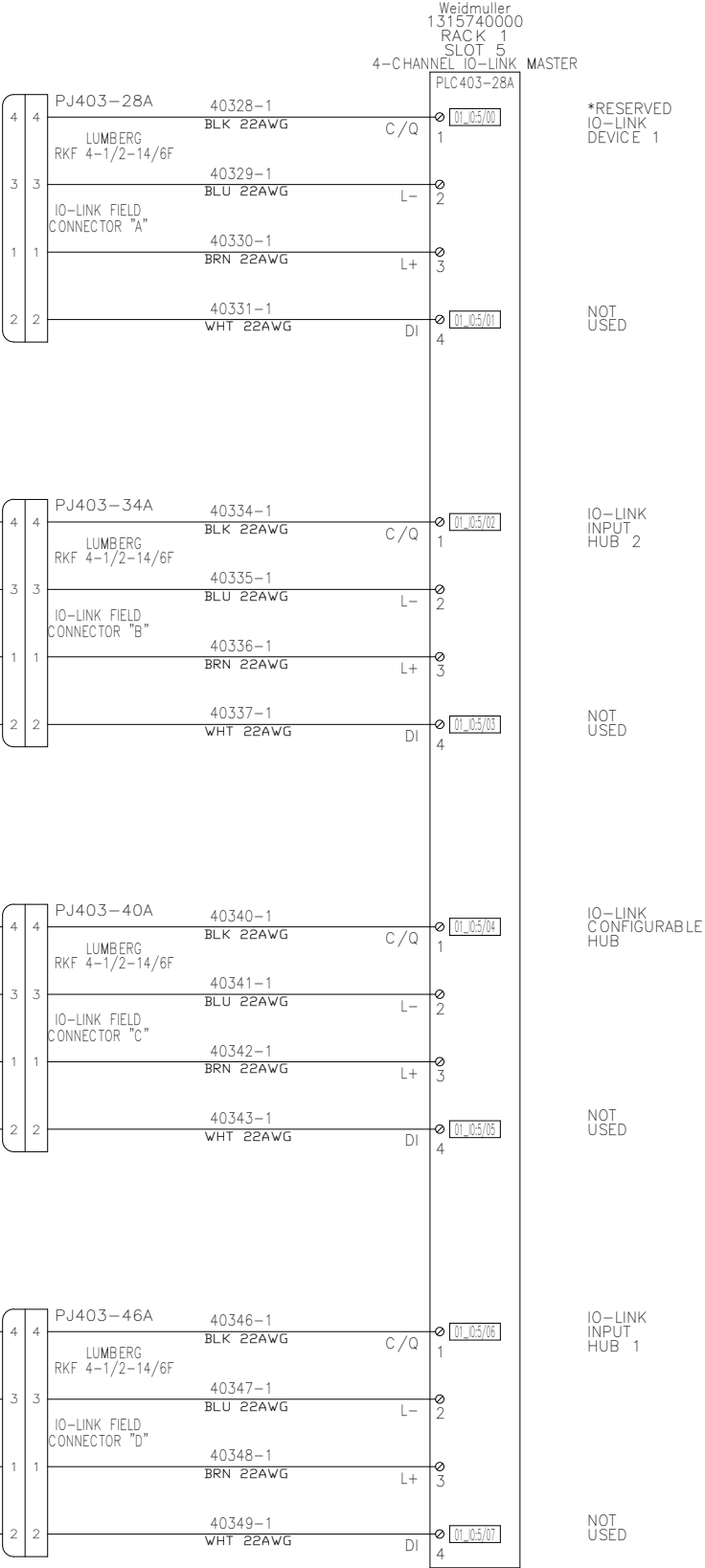
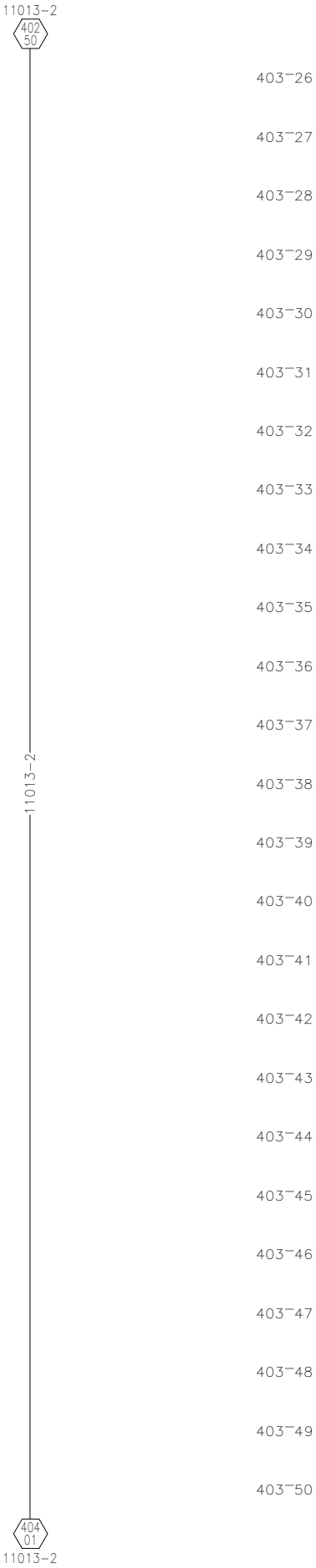
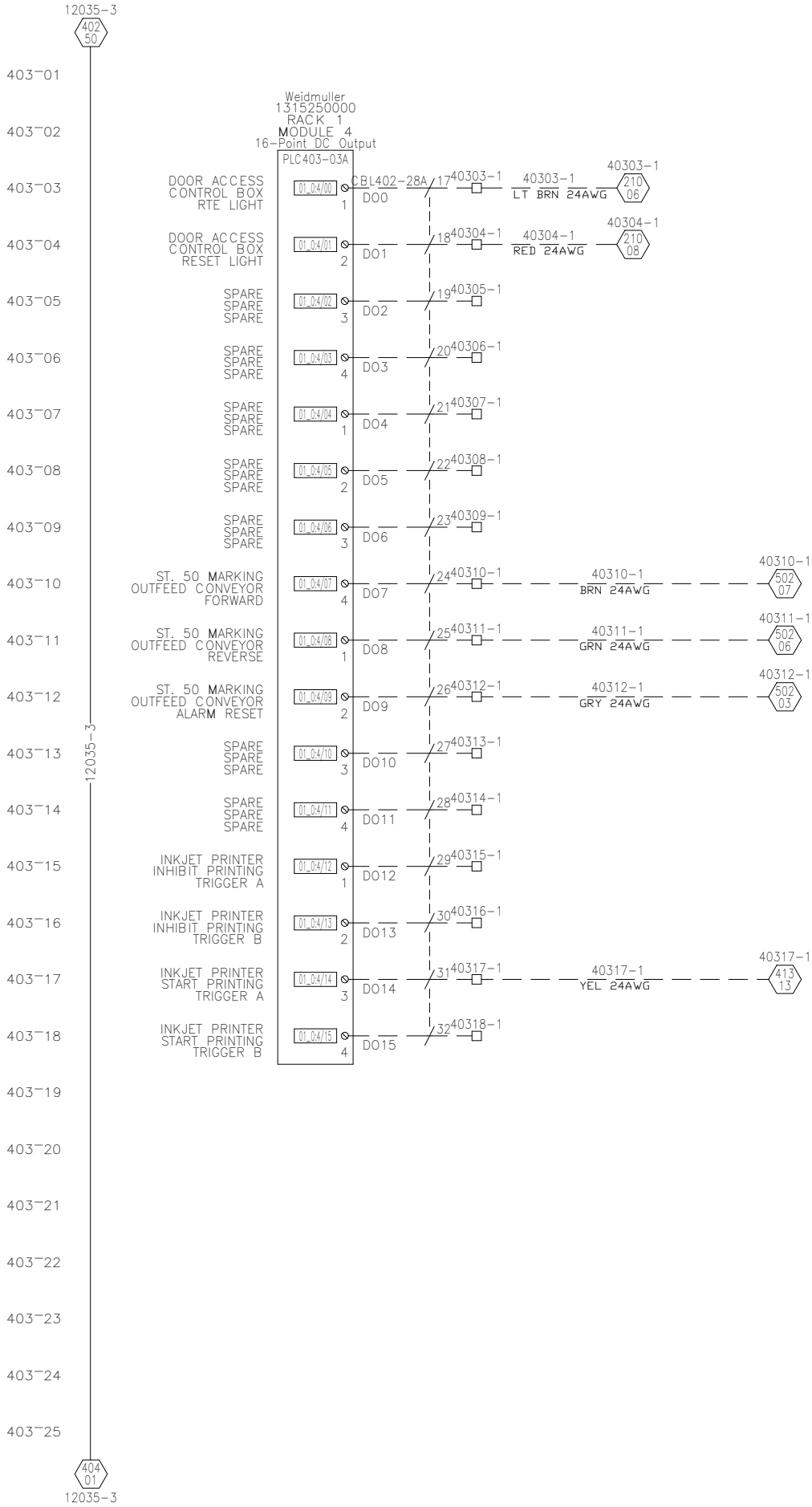
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REVISION HISTORY		ENGINEER	
REV	DATE	STATE	RELEASED
A	1/20/2025	Jeremy Keene	2/14/2025



DWG. TITLE	
TOPIDERM CONTRACT MANUFACTURING TOWELETTE PACKETS BOXING MACHINE REMOTE I/O SCHEMATICS	
ENGINEER J. KEENE	CHECKED BY J.C.K
JOB NO B16821	DRAWN BY J.K.
SCALE N.T.S.	DATE 10/2024
DWG NO B16821- E401	
ELECTRICAL	SHEET
REMOTE IO	401





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REVISION HISTORY		ENGINEER	DATE
REV	DATE	STATE	RELEASED
A	1/20/2025	Jeremy Keene	2/14/2025



DWG. TITLE	
TOPIDERM CONTRACT MANUFACTURING TOWELETTE PACKETS BOXING MACHINE REMOTE I/O SCHEMATICS	
ENGINEER J. KEENE	CHECKED BY J.C.K
JOB NO B16821	DRAWN BY J.K.
SCALE N.T.S.	DATE 10/2024
DWG NO B16821- E403	
ELECTRICAL REMOTE IO	SHEET 403

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REVISION HISTORY			
REV	DATE	STATE	RELEASE DATE
A	1/20/2025	RELEASED	2/14/2025
		ENGINEER	Jeremy Keene



DWG. TITLE	
TOPIDERM CONTRACT MANUFACTURING TOWELETTE PACKETS BOXING MACHINE REMOTE I/O SCHEMATICS	
ENGINEER J. KEENE	CHECKED BY J.C.K
JOB NO B16821	DRAWN BY J.K.
SCALE N.T.S.	DATE 10/2024
DWG NO B16821- E404	
ELECTRICAL REMOTE IO	SHEET 404

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FOR I/O

RESERVED
FOR I/O

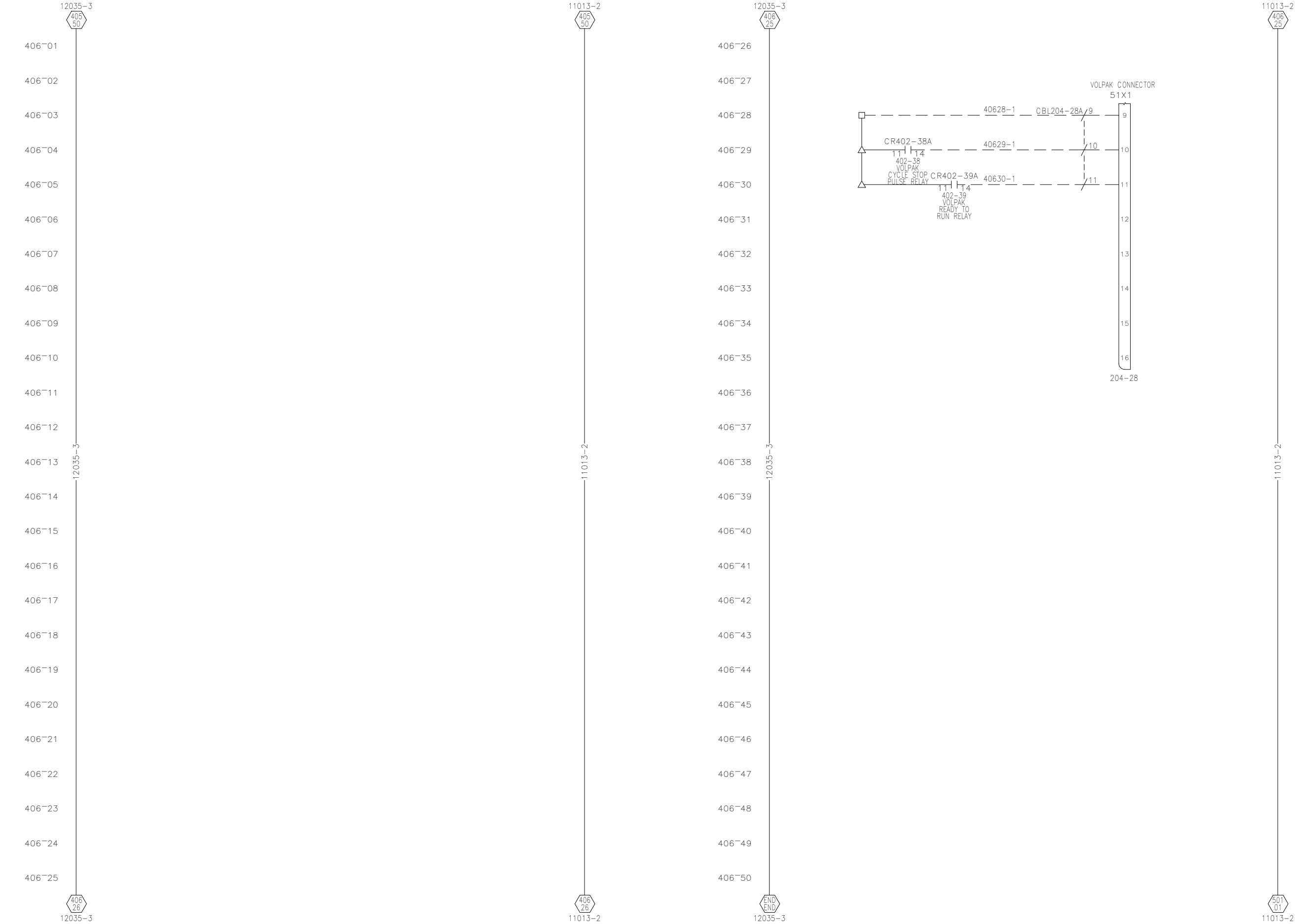
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REVISION HISTORY			
REV	DATE	STATE	RELEASE DATE
A	1/20/2025	RELEASED	2/14/2025
		ENGINEER	Jeremy Keene



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DWG. TITLE	
TOPIDERM CONTRACT MANUFACTURING TOWELETTE PACKETS BOXING MACHINE REMOTE I/O SCHEMATICS	
ENGINEER J. KEENE	CHECKED BY J.C.K
JOB NO B16821	DRAWN BY J.K.
SCALE N.T.S.	DATE 10/2024
DWG NO B16821– E405	
ELECTRICAL REMOTE IO	SHEET 405



7/7/2025 9:36:37 AM, Jared.keene, ***** AS BUILT *****

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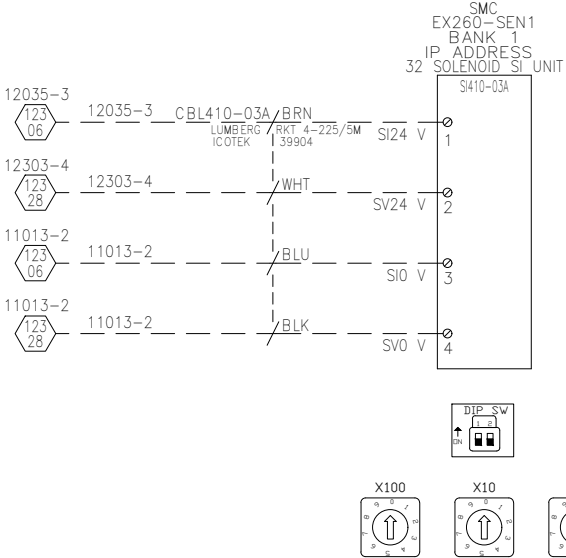
REVISION HISTORY			
REV	DATE	STATE	RELEASED
A	1/20/2025	RELEASED	2/14/2025



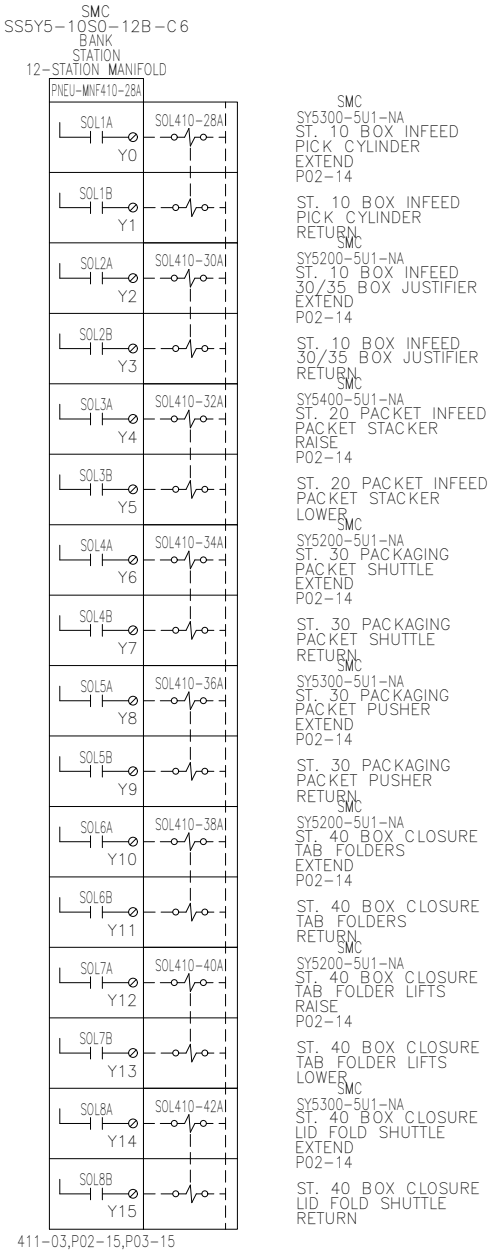
DWG. TITLE	
TOPIDERM CONTRACT MANUFACTURING TOWELETTE PACKETS BOXING MACHINE REMOTE I/O SCHEMATICS	
ENGINEER J. KEENE	CHECKED BY J.C.K
JOB NO B16821	DRAWN BY J.K.
SCALE N.T.S.	DATE 10/2024
DWG NO B16821- E406	
ELECTRICAL REMOTE IO	SHEET 406

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REVISION HISTORY		ENGINEER		RELEASE DATE	
REV	DATE	STATE	RELEASED	ENGINEER	2/14/2025
A	1/20/2025			Jeremy Keene	



DWG. TITLE	
TOPIDERM CONTRACT MANUFACTURING TOWELETTE PACKETS BOXING MACHINE PNEUMATIC MANIFOLD	
ENGINEER J. KEENE	CHECKED BY J.C.K
JOB NO B16821	DRAWN BY J.K.
SCALE N.T.S.	DATE 10/2024
DWG NO B16821- E410	
ELECTRICAL REMOTE IO	SHEET 410

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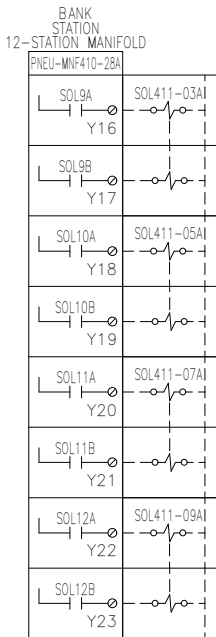
411~21

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410~28

SMC
SY5200-5U1-NA
ST. 40 BOX CLOSURE
LID FOLDER
EXTEND
P03-14

ST. 40 BOX CLOSURE
LID FOLDER
RETURN
SMC

SY5400-5U1-NA
ST. 40 BOX CLOSURE
WEIGH SCALE
RAISE
P03-14

ST. 40 BOX CLOSURE
WEIGH SCALE
LOWER
SMC

SY5200-5U1-NA
ST. 20 PACKET
SUPPORT
EXTEND
P03-14

ST. 20 PACKET
SUPPORT
RETURN

ST. 40 LID
TAB TUCKER
EXTEND
P03-14

ST. 40 LID
TAB TUCKER
RETURN

411~26

411~27

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REVISION HISTORY			
REV	DATE	ENGINEER	RELEASE DATE
A	1/20/2025	Jeremy Keene	2/14/2025



DWG TITLE
TOPIDERM CONTRACT MANUFACTURING
TOWELETTE PACKETS
BOXING MACHINE
PNEUMATIC MANIFOLD

ENGINEER J. KEENE	CHECKED BY J.C.K
JOB NO B16821	DRAWN BY J.K.
SCALE N.T.S.	DATE 10/2024
DWG NO B16821- E411	
ELECTRICAL REMOTE IO	SHEET 411

412~01

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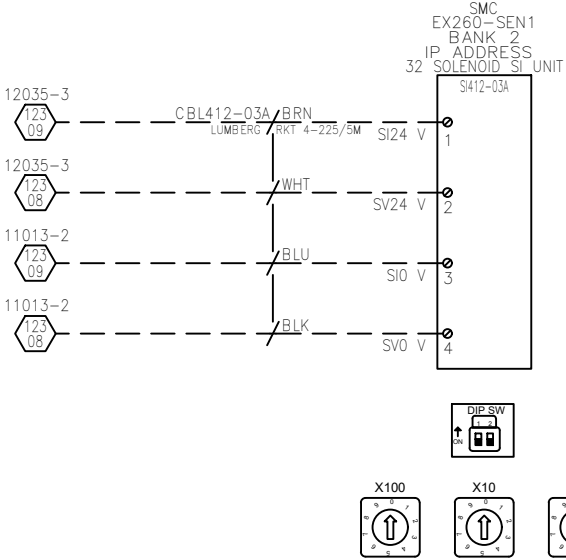
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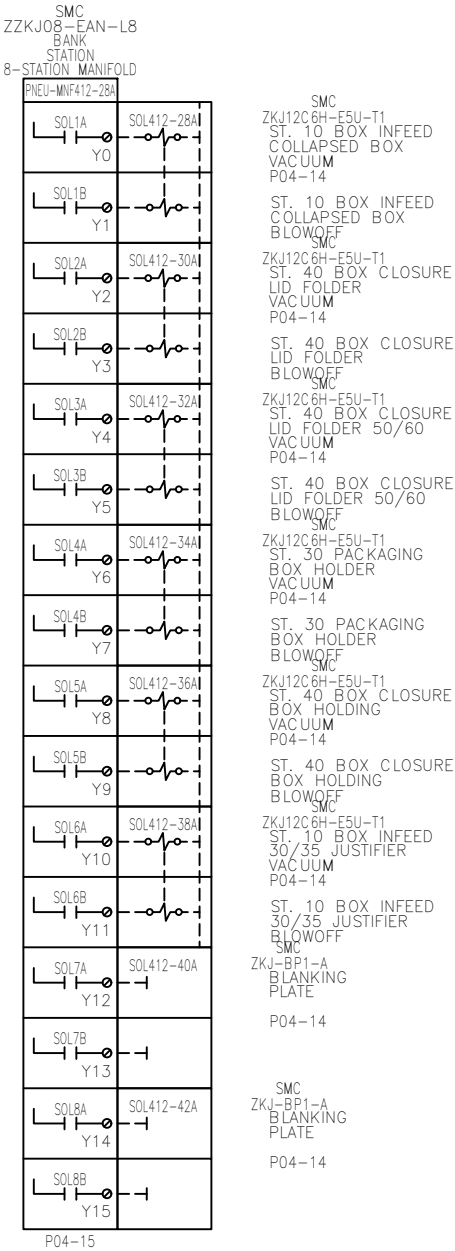
412~46

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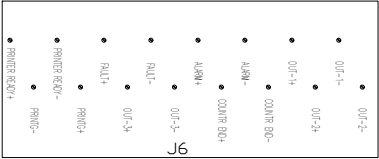
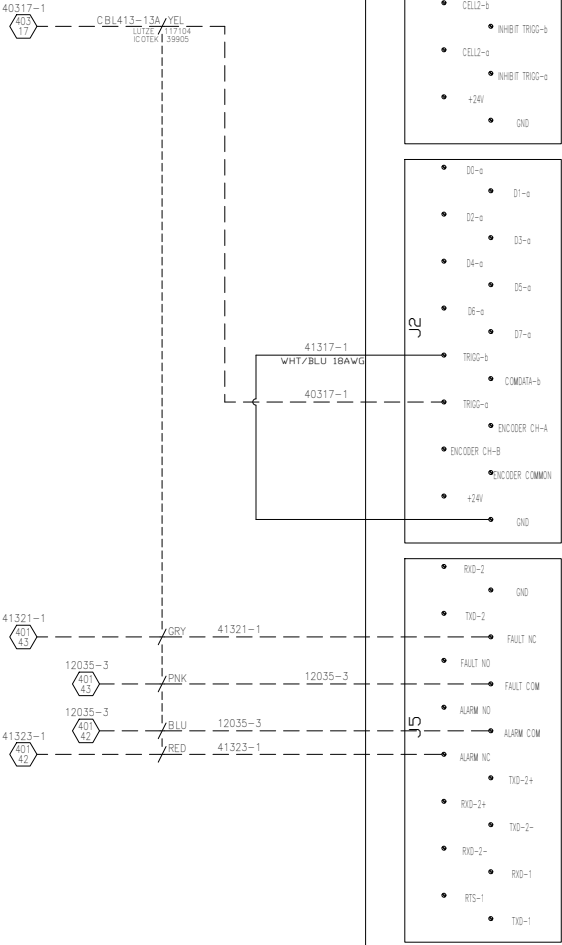
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REVISION HISTORY		ENGINEER	
REV	DATE	STATE	RELEASED
1	1/20/2025	Jeremy Keene	2/14/2025



DWG. TITLE	
TOPIDERM CONTRACT MANUFACTURING TOWELETTE PACKETS BOXING MACHINE VACUUM MANIFOLD	
ENGINEER J. KEENE	CHECKED BY J.C.K
JOB NO B16821	DRAWN BY J.K.
SCALE N.T.S.	DATE 10/2024
DWG NO B16821- E412	
ELECTRICAL REMOTE IO	SHEET 412

413-01
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413-25



MARKEM-MALE
A48320
INKJET PRINTER
OPTION INTERFACE
BOARD
ID413-03A

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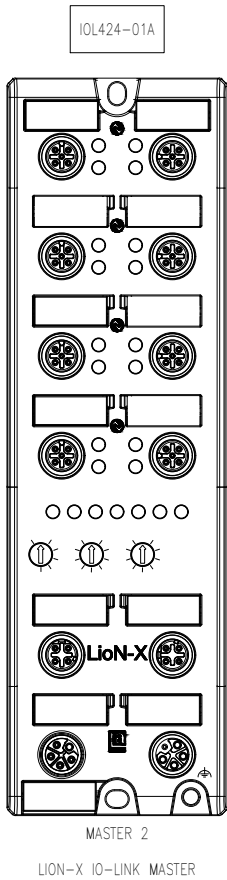
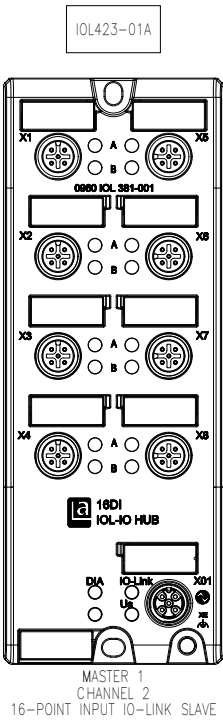
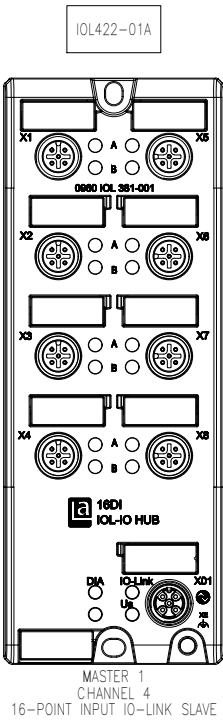
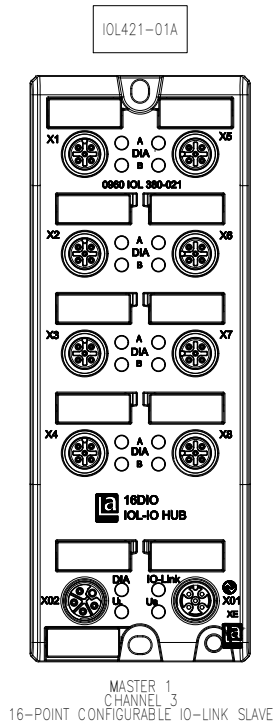
REVISION HISTORY			
REV	DATE	STATE	RELEASE DATE
A	1/20/2025	RELEASED	2/14/2025
		ENGINEER	Jeremy Keene



DWG TITLE
TOPIDERM CONTRACT MANUFACTURING
TOWELETTE PACKETS
BOXING MACHINE
INKJET PRINTER INTERFACE

ENGINEER J. KEENE	CHECKED BY J.C.K
JOB NO B16821	DRAWN BY J.K.
SCALE N.T.S.	DATE 10/2024
DWG NO B16821- E413	
ELECTRICAL REMOTE IO	SHEET 413

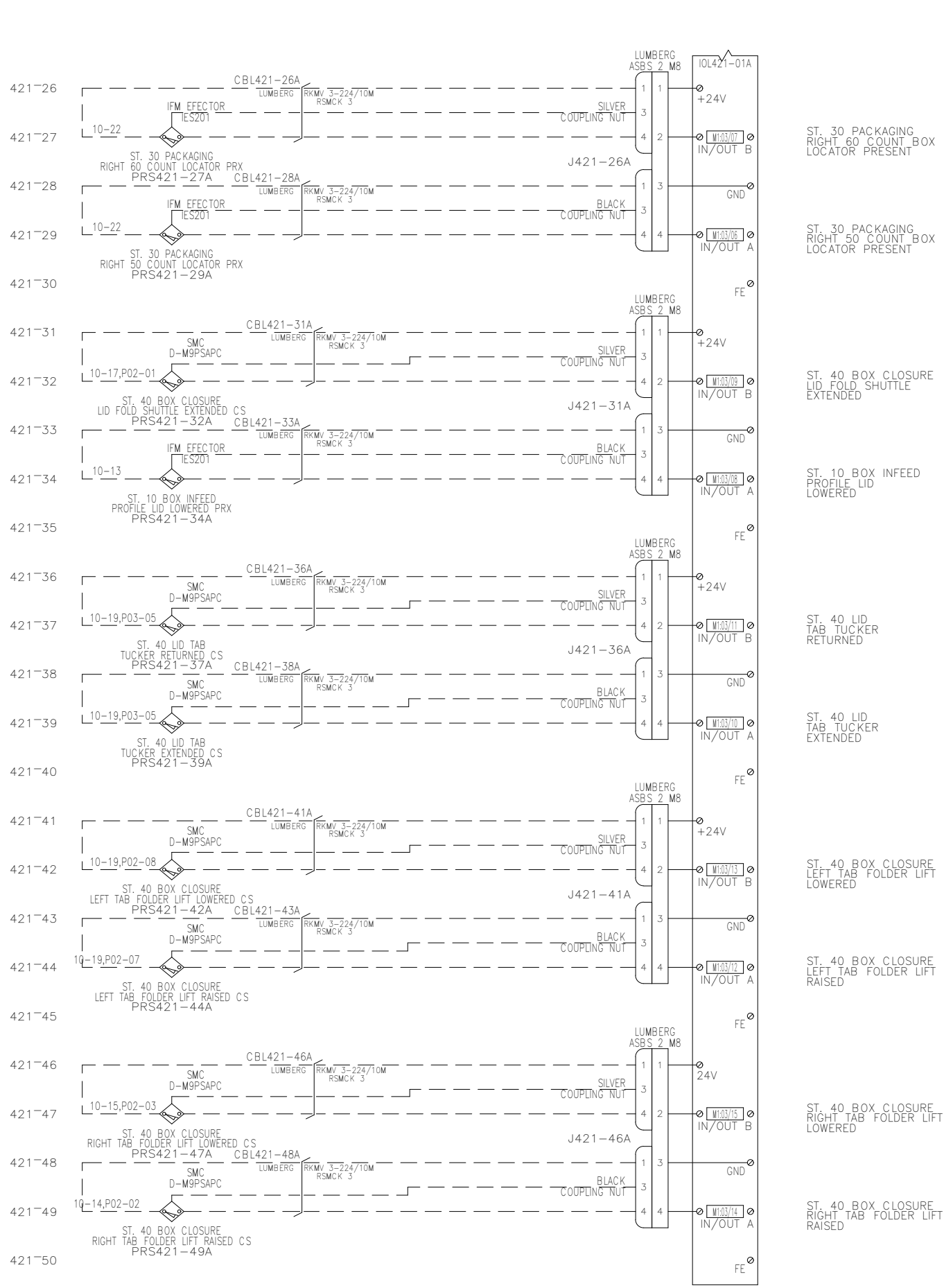
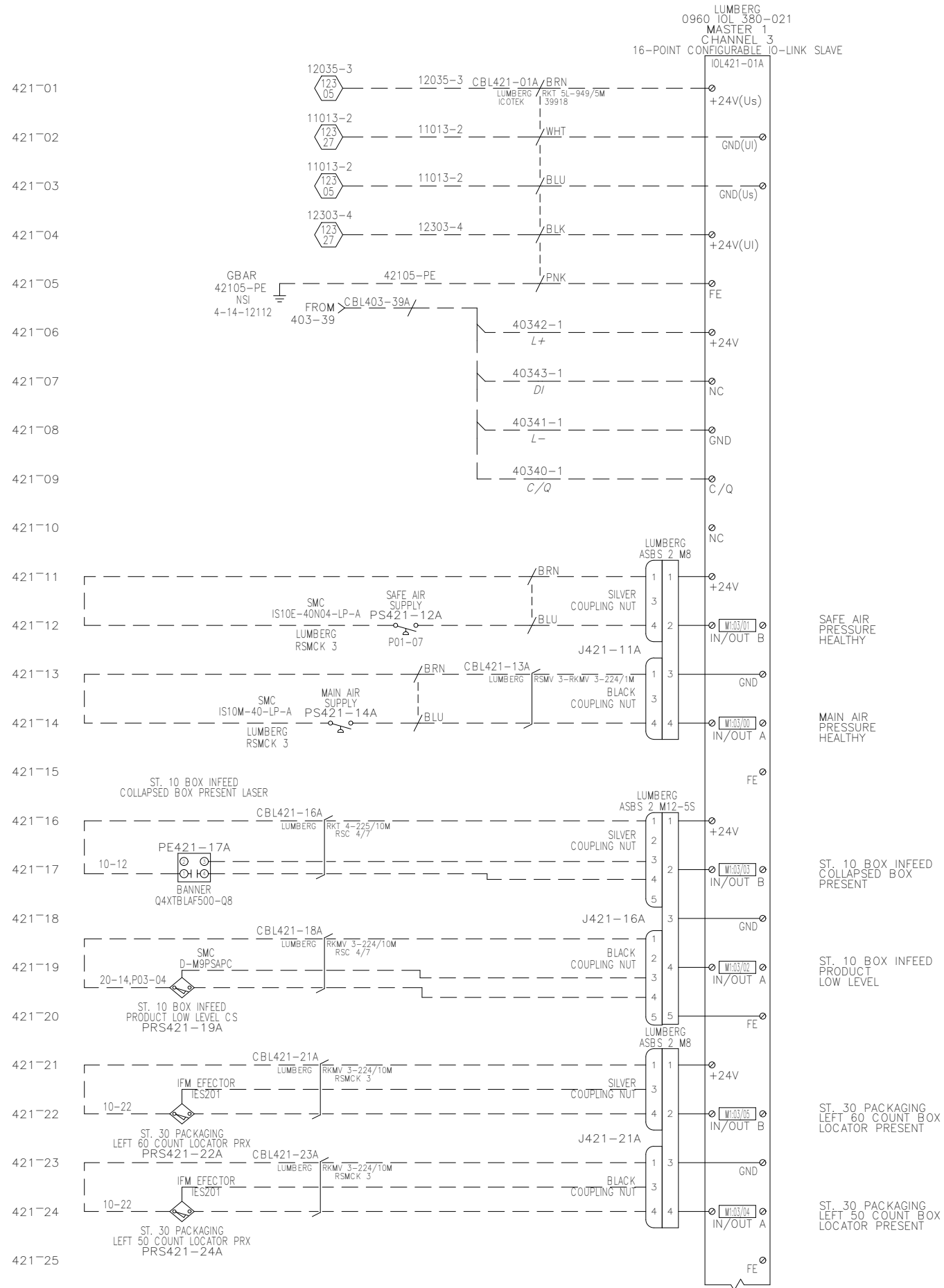
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REVISION HISTORY			
REV	DATE	STATE	RELEASE DATE
A	1/20/2025	RELEASED	2/14/2025
		ENGINEER	Jeremy Keene

DWG. TITLE			
TOPIDERM CONTRACT MANUFACTURING TOWELETTE PACKETS BOXING MACHINE IO-LINK DEVICES			
ENGINEER	J. KEENE	CHECKED BY	J.C.K
JOB NO	B16821	DRAWN BY	J.K.
SCALE	N.T.S.	DATE	10/2024
DWG NO	B16821- E420		
ELECTRICAL REMOTE IO		SHEET 420	

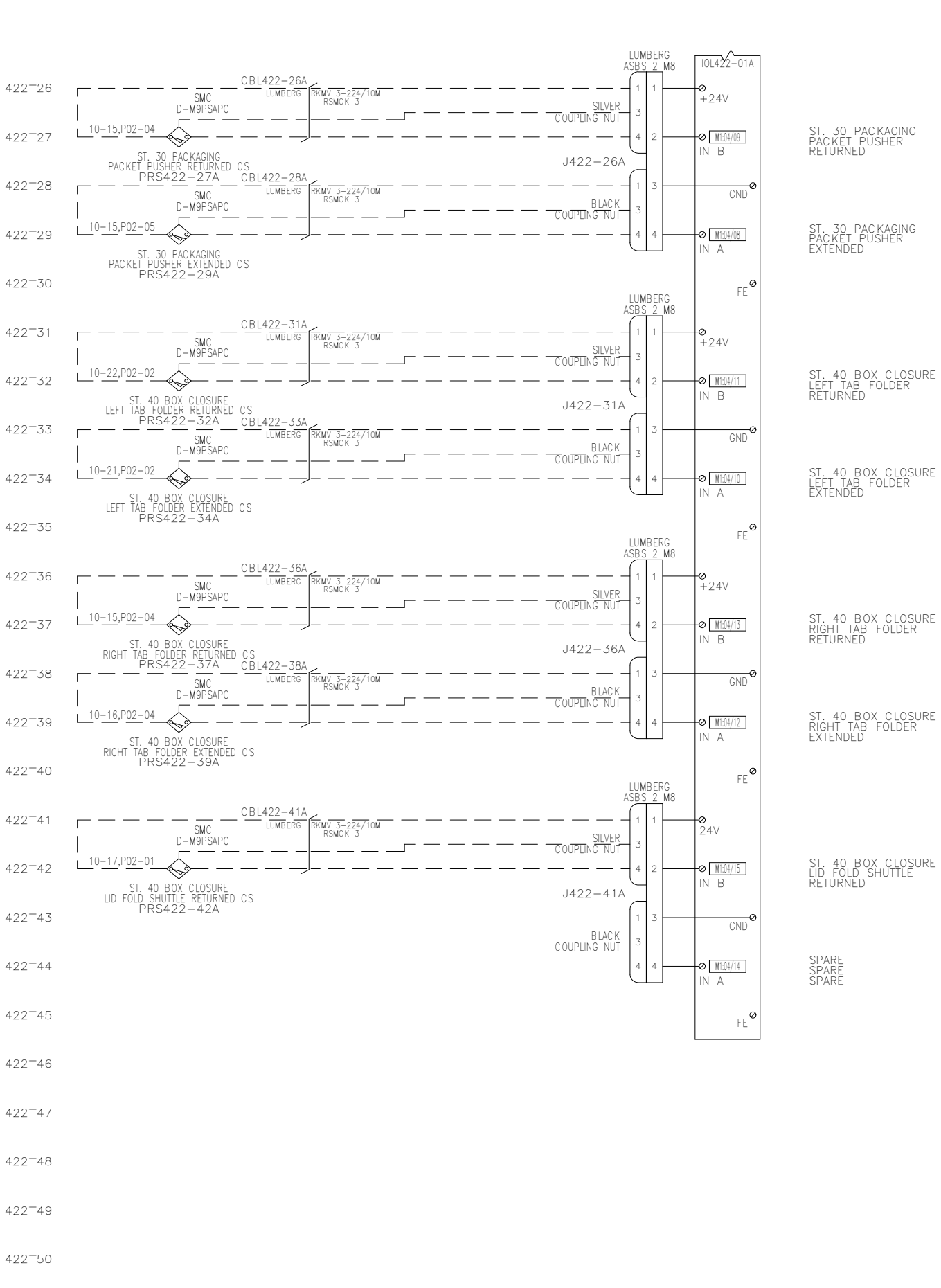
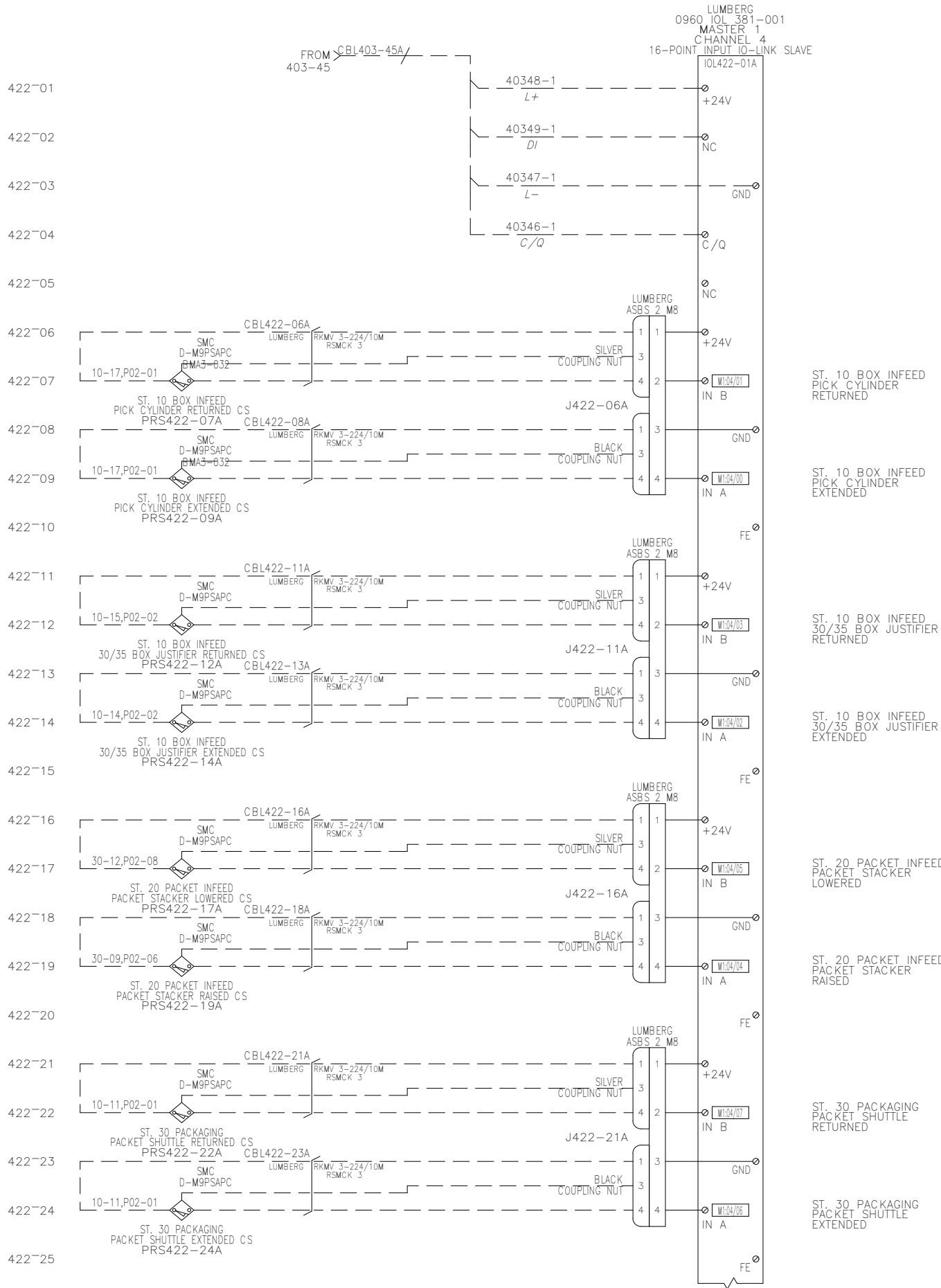


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REVISION HISTORY		ENGINEER	RELEASED
REV	DATE	DATE	DATE
A	1/20/2025	Jeremy Keene	2/14/2025



DWG TITLE			
TOPIDERM CONTRACT MANUFACTURING TOWELETTE PACKETS BOXING MACHINE IO-LINK SCHEMATICS			
ENGINEER	J. KEENE	CHECKED BY	J.C.K
JOB NO	B16821	DRAWN BY	J.K.
SCALE	N.T.S.	DATE	10/2024
DWG NO			
B16821-E421			
ELECTRICAL		SHEET	
REMOTE IO		421	

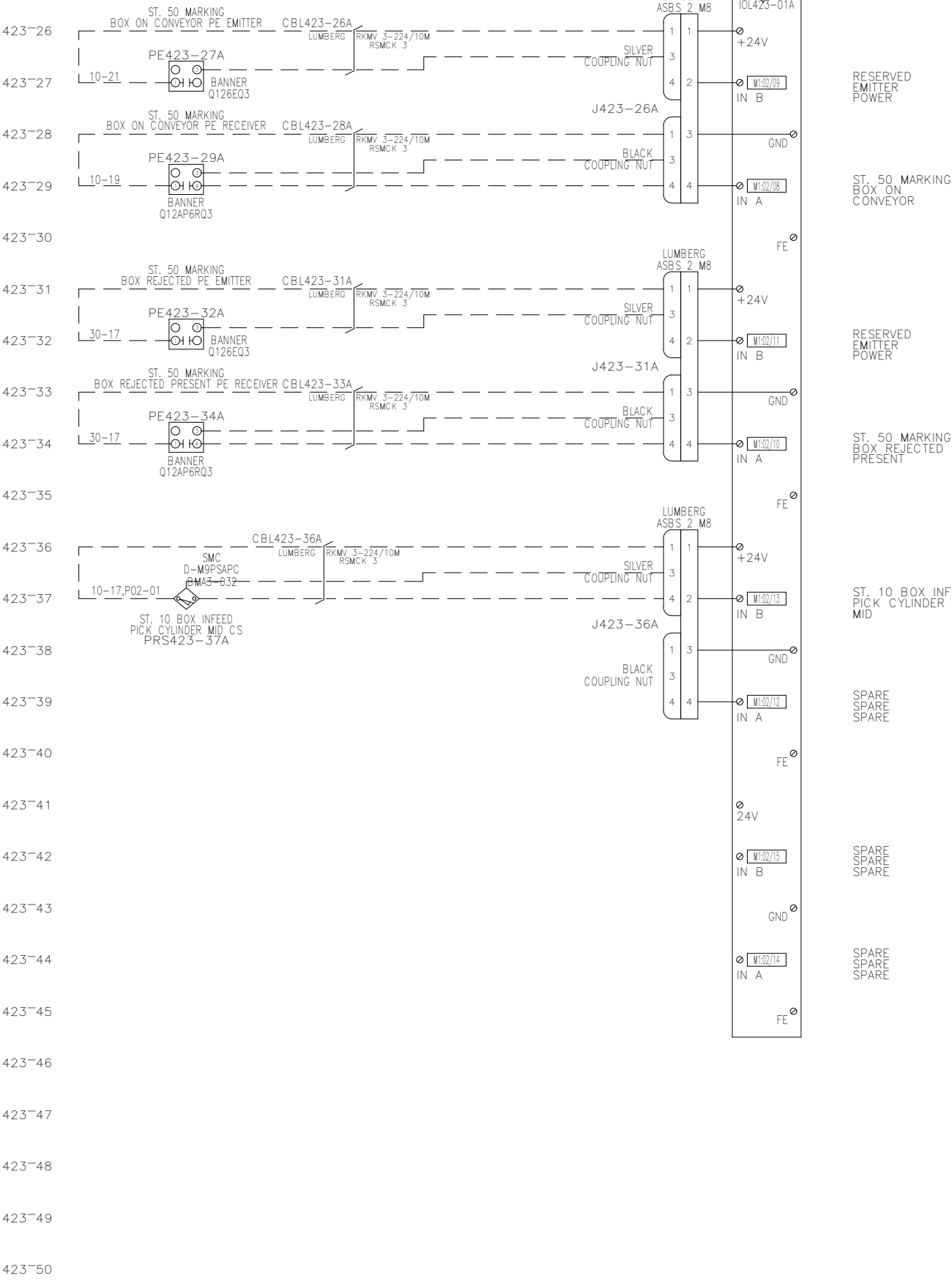
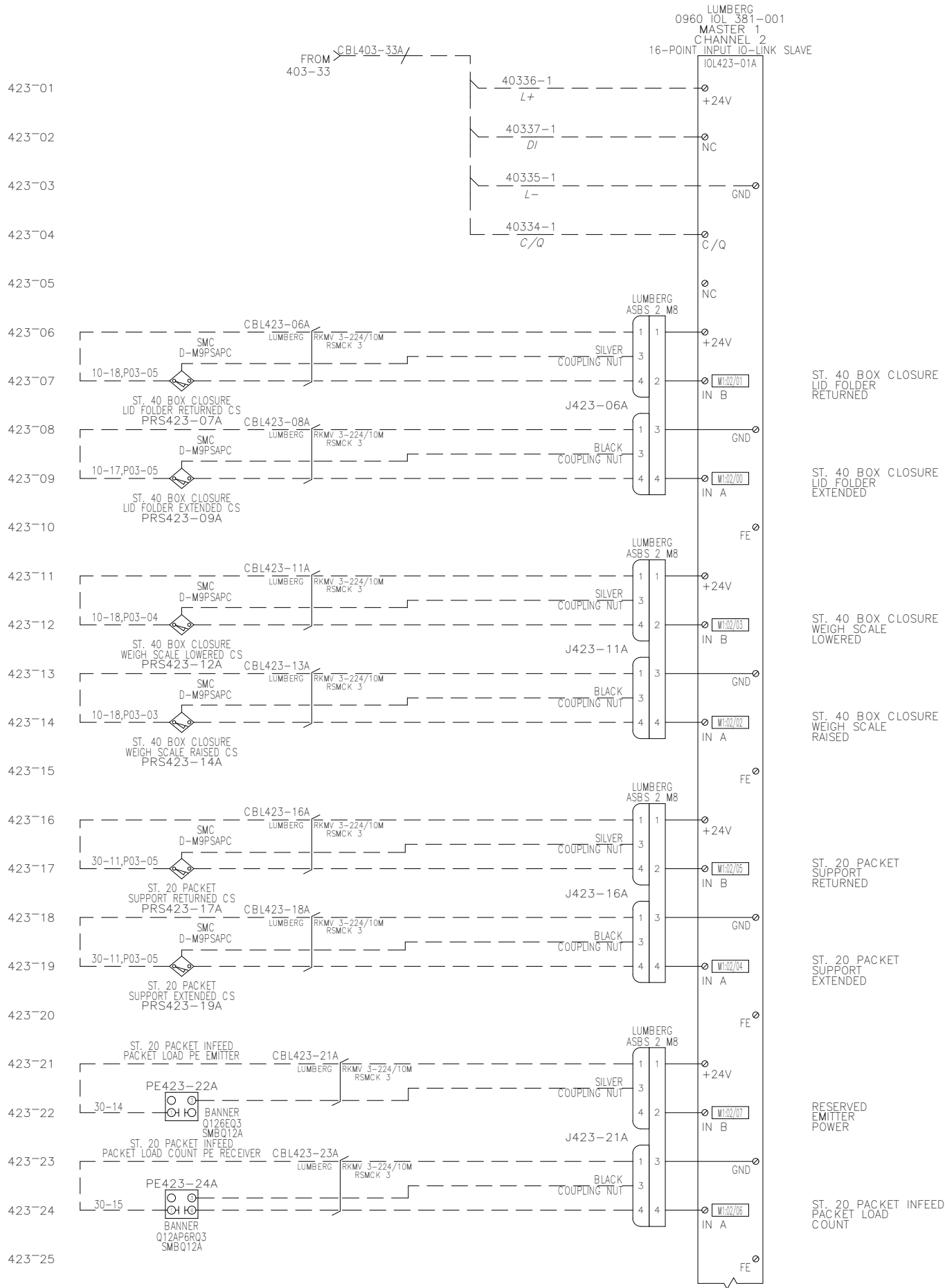


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REVISION HISTORY		ENGINEER	RELEASE DATE
REV	DATE	ENGINEER	RELEASE DATE
A	1/20/2025	Jeremy Keene	2/14/2025



DWG TITLE			
TOPIDERM CONTRACT MANUFACTURING TOWELETTES PACKETS BOXING MACHINE IO-LINK SCHEMATICS			
ENGINEER	J. KEENE	CHECKED BY	J.C.K
JOB NO	B16821	DRAWN BY	J.K.
SCALE	N.T.S.	DATE	10/2024
DWG NO	B16821-E422		
ELECTRICAL		SHEET	
REMOTE IO		422	



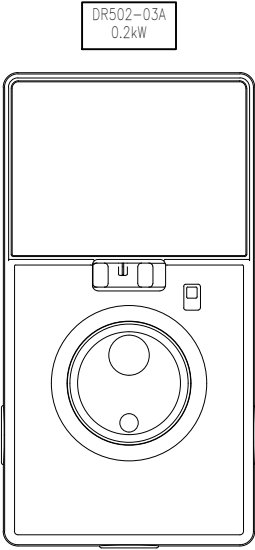
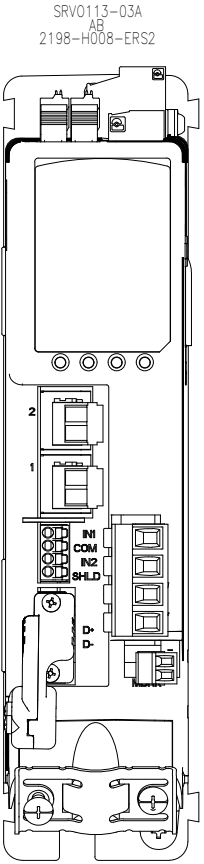
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REVISION HISTORY		ENGINEER	DATE
REV	DATE	RELEASED	2/14/2025
A	1/20/2025	Jeremy Keene	



DWG. TITLE			
TOPIDERM CONTRACT MANUFACTURING TOWELETTE PACKETS BOXING MACHINE IO-LINK SCHEMATICS			
ENGINEER	J. KEENE	CHECKED BY	J.C.K
JOB NO	B16821	DRAWN BY	J.K.
SCALE	N.T.S.	DATE	10/2024
DWG NO	B16821-E423		
ELECTRICAL		SHEET	
REMOTE IO		423	

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REVISION HISTORY			
REV	DATE	STATE	RELEASE DATE
A	1/20/2025	RELEASED	2/14/2025

**WAUSEON MACHINE**

995 Enterprise Ave. Wauseon OH 43587 • Ph (419)337-0940 • www.wauseonmachine.com

DWG TITLE

TOPIDERM CONTRACT MANUFACTURING
TOWELETTE PACKETS
BOXING MACHINE
MOTION CONTROL DEVICES

ENGINEER	CHECKED BY
J. KEENE	J.C.K
JOB NO	DRAWN BY
B16821	J.K.
SCALE	DATE
N.T.S.	10/2024

DWG NO

B16821– E500

ELECTRICAL	SHEET
MOTION CONTROL	500



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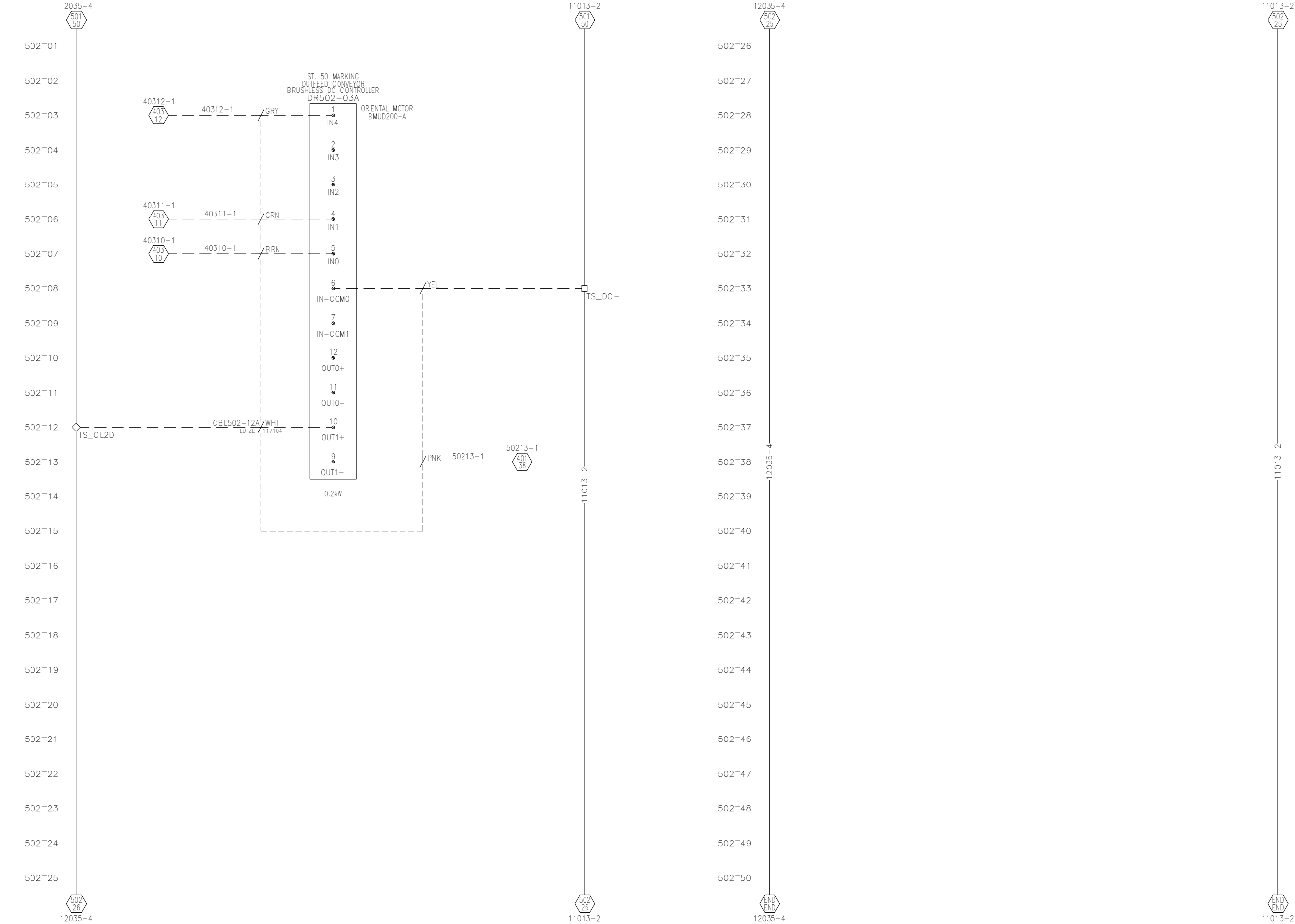
B) is made available to the recipient on the express and specific condition that neither the information nor the confidential information therein shall be disclosed or made accessible to anyone other than the recipient without the consent of W.M. and that such information shall be used only as expressly and specifically approved in writing by W.M. and not otherwise.

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REVISION HISTORY				
REV	DATE	STATE	ENGINEER	RELEASE DATE
A	1/20/2025	RELEASED	Jeremy Keene	2/14/2025

DWG TITLE	
TOPIDERM CONTRACT MANUFACTURING	
TOWELETTE PACKETS	
BOXING MACHINE	
MOTION CONTROL SCHEMATICS	
ENGINEER	CHECKED BY
J. KEENE	J.C.K
JOB NO	DRAWN BY
B16821	J.K.
SCALE	DATE
N.T.S.	10/2024
DWG NO	
B16821- E501	
ELECTRICAL	SHEET
MOTION CONTROL	501



7/7/2025 9:37:19 AM, Jared.keene, ***** AS BUILT *****

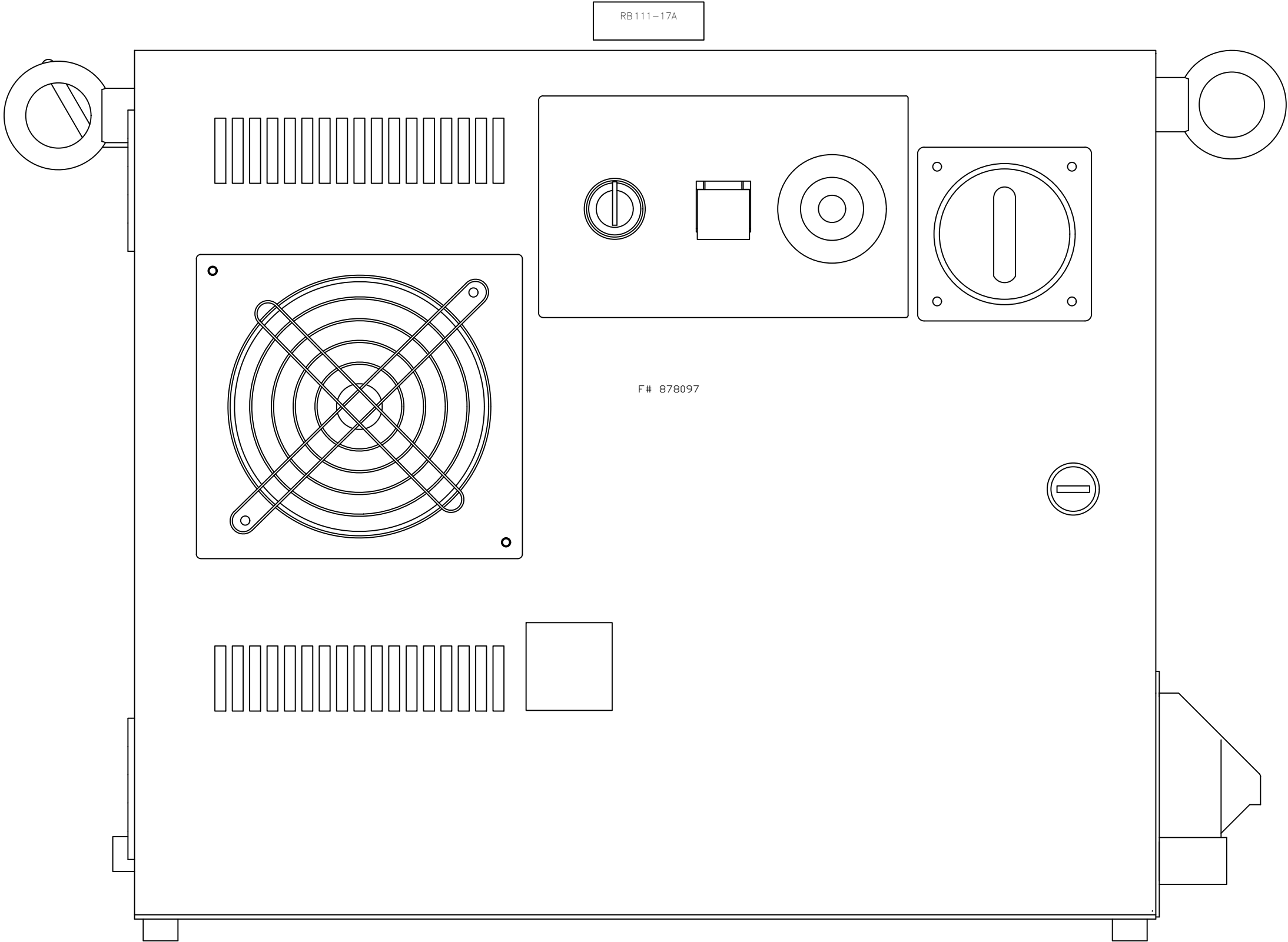
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REVISION HISTORY			
REV	DATE	STATE	RELEASE DATE
A	1/20/2025	RELEASED	2/14/2025



DWG. TITLE	
TOPIDERM CONTRACT MANUFACTURING TOWELETTE PACKETS BOXING MACHINE OUTFEED CONVEYOR DRIVE CONTROL	
ENGINEER J. KEENE	CHECKED BY J.C.K
JOB NO B16821	DRAWN BY J.K.
SCALE N.T.S.	DATE 10/2024
DWG NO B16821- E502	
ELECTRICAL MOTION CONTROL	SHEET 502

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REVISION HISTORY			
REV	DATE	STATE	RELEASE DATE
A	1/20/2025	RELEASED	2/14/2025
		ENGINEER	Jeremy Keene

**WAUSEON MACHINE**
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DWG. TITLE	
TOPIDERM CONTRACT MANUFACTURING TOWELETTE PACKETS BOXING MACHINE ROBOT CONTROLLER	
ENGINEER	CHECKED BY
J. KEENE	J.C.K
JOB NO	DRAWN BY
B16821	J.K.
SCALE	DATE
N.T.S.	10/2024
DWG. NO	
B16821- E550	
ELECTRICAL	SHEET
ROBOT(S)	550

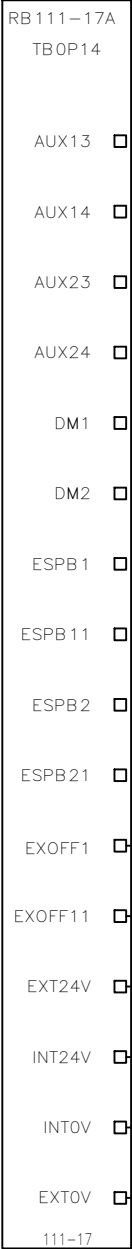
LR-MATE

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LR-MATE

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REVISION HISTORY			
REV	DATE	ENGINEER	RELEASE DATE
A	1/20/2025	Jeremy Keene	2/14/2025



DWG TITLE

TOPIDERM CONTRACT MANUFACTURING
TOWELETTE PACKETS
BOXING MACHINE
ROBOT SAFETY CONNECTIONS

ENGINEER	CHECKED BY
J. KEENE	J.C.K
JOB NO	DRAWN BY
B16821	J.K.
SCALE	DATE
N.T.S.	10/2024

DWG NO

B16821- E551

ELECTRICAL

SHEET

ROBOT(S)

551

553~01	553~26
553~02	553~27
553~03	553~28
553~04	553~29
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REVISION HISTORY			
REV	DATE	ENGINEER	RELEASE DATE
A	1/20/2025	Jeremy Keene	2/14/2025



DWG. TITLE	
TOPIDERM CONTRACT MANUFACTURING TOWELETTE PACKETS BOXING MACHINE ROBOT I/O SCHEMATICS	
ENGINEER J. KEENE	CHECKED BY J.C.K
JOB NO B16821	DRAWN BY J.K.
SCALE N.T.S.	DATE 10/2024
DWG NO B16821– E553	
ELECTRICAL ROBOT(S)	SHEET 553

554~01	554~26
554~02	554~27
554~03	554~28
554~04	554~29
554~05	554~30
554~06	554~31
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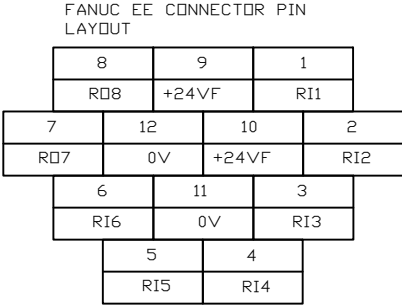
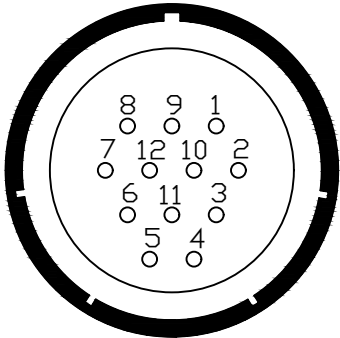
REVISION HISTORY			
REV	DATE	ENGINEER	RELEASE DATE
A	1/20/2025	Jeremy Keene	2/14/2025



DWG. TITLE	
TOPIDERM CONTRACT MANUFACTURING TOWELETTE PACKETS BOXING MACHINE ROBOT I/O SCHEMATICS	
ENGINEER J. KEENE	CHECKED BY J.C.K
JOB NO B16821	DRAWN BY J.K.
SCALE N.T.S.	DATE 10/2024
DWG NO B16821– E554	
ELECTRICAL ROBOT(S)	SHEET 554

555~01	LR-MATE	555~26
555~02		555~27
555~03	RB 111-17A	555~28
555~04	RI1 □ (EE-P1)	555~29
555~05	RI2 □ (EE-P2)	555~30
555~06	RI3 □ (EE-P3)	555~31
555~07	RI4 □ (EE-P4)	555~32
555~08	RI5 □ (EE-P5)	555~33
555~09	RI6 □ (EE-P6)	555~34
555~10	RO7 □ (EE-P7)	555~35
555~11	RO8 □ (EE-P8)	555~36
555~12	+24V □ (EE-P9)	555~37
555~13	N.C. □ (EE-P10)	555~38
555~14	N.C. □ (EE-P11)	555~39
555~15	0V □ (EE-P12)	555~40
555~16	RO1 □ (INTERNAL)	555~41
555~17	RO2 □ (INTERNAL)	555~42
555~18	RO3 □ (INTERNAL)	555~43
555~19	RO4 □ (INTERNAL)	555~44
555~20	RO5 □ (INTERNAL)	555~45
555~21	RO6 □ (INTERNAL)	555~46
555~22	+24V □ (INTERNAL)	555~47
555~23	0V □ (INTERNAL)	555~48
555~24	111-17	555~49
555~25		555~50

EE CONNECTOR
PINOUT DETAIL



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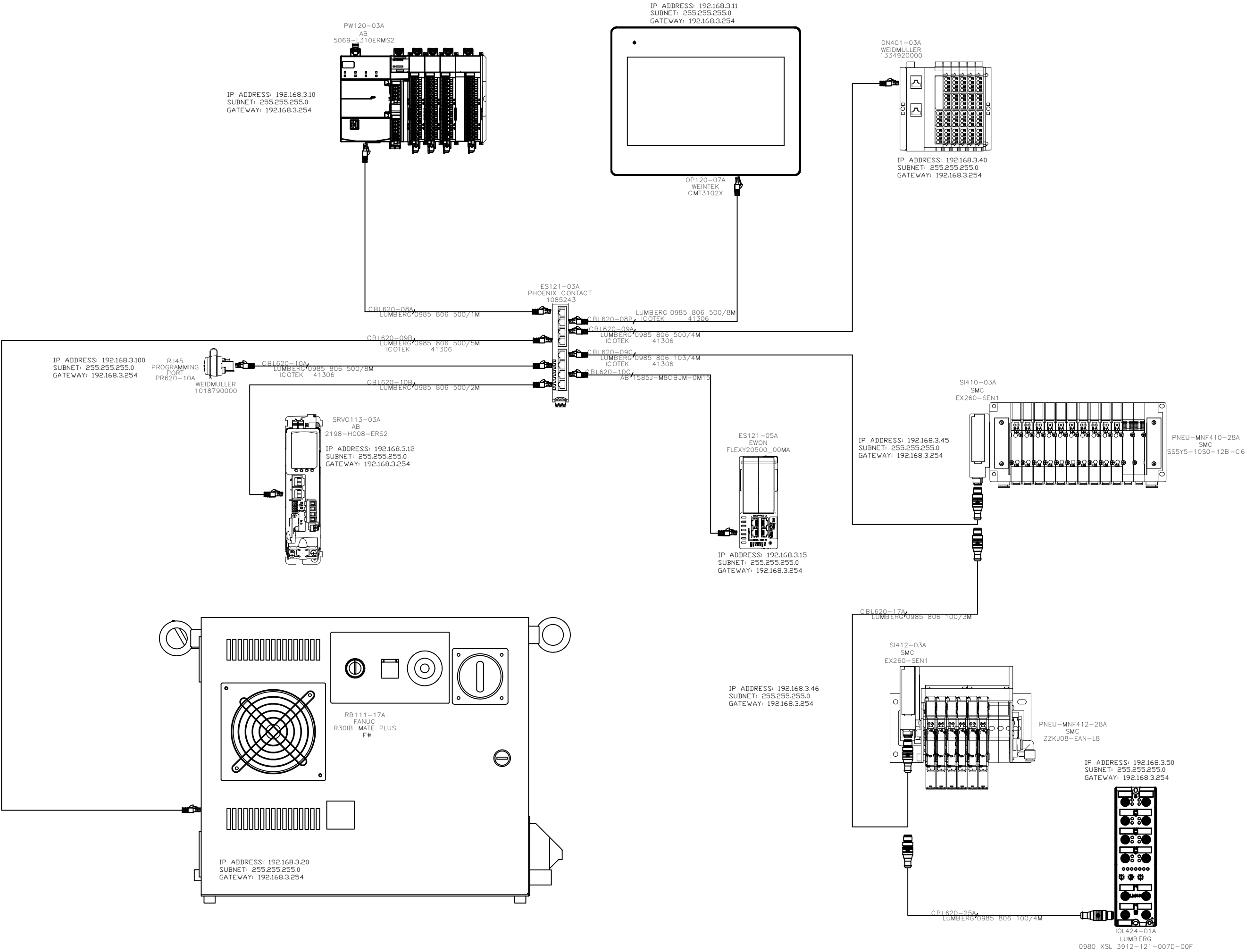
REVISION HISTORY			
REV	DATE	ENGINEER	RELEASE DATE
A	1/20/2025	Jeremy Keene	2/14/2025



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DWG. TITLE	
TOPIDERM CONTRACT MANUFACTURING TOWELETTE PACKETS BOXING MACHINE ROBOT EOAT WIRING	
ENGINEER J. KEENE	CHECKED BY J.C.K
JOB NO B16821	DRAWN BY J.K.
SCALE N.T.S.	DATE 10/2024
DWG NO B16821- E555	
ELECTRICAL ROBOT(S)	SHEET 555

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REVISION HISTORY		ENGINEER	RELEASE DATE
REV	DATE	STATE	RELEASED
A	1/20/2025	Jeremy Keene	2/14/2025

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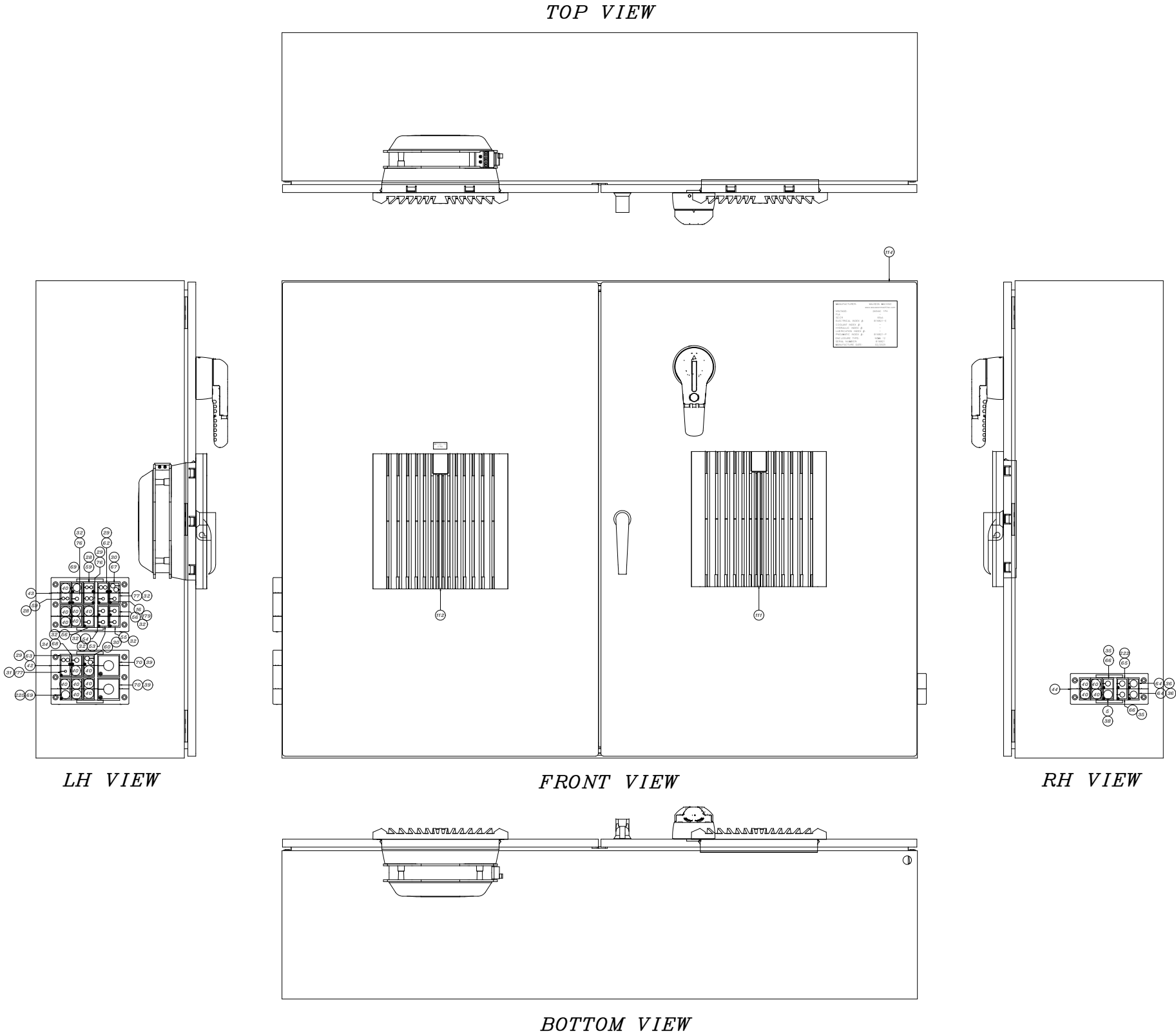
DWG TITLE
**TOPIDERM CONTRACT MANUFACTURING
TOWELETTE PACKETS
BOXING MACHINE
ETHERNET ROUTING/SETTINGS/PARAMETERS**

ENGINEER J. KEENE	CHECKED BY J.C.K
JOB NO B16821	DRAWN BY J.K.
SCALE N.T.S.	DATE 10/2024

DWG NO
B16821- E620

ELECTRICAL COMMUNICATION	SHEET 620
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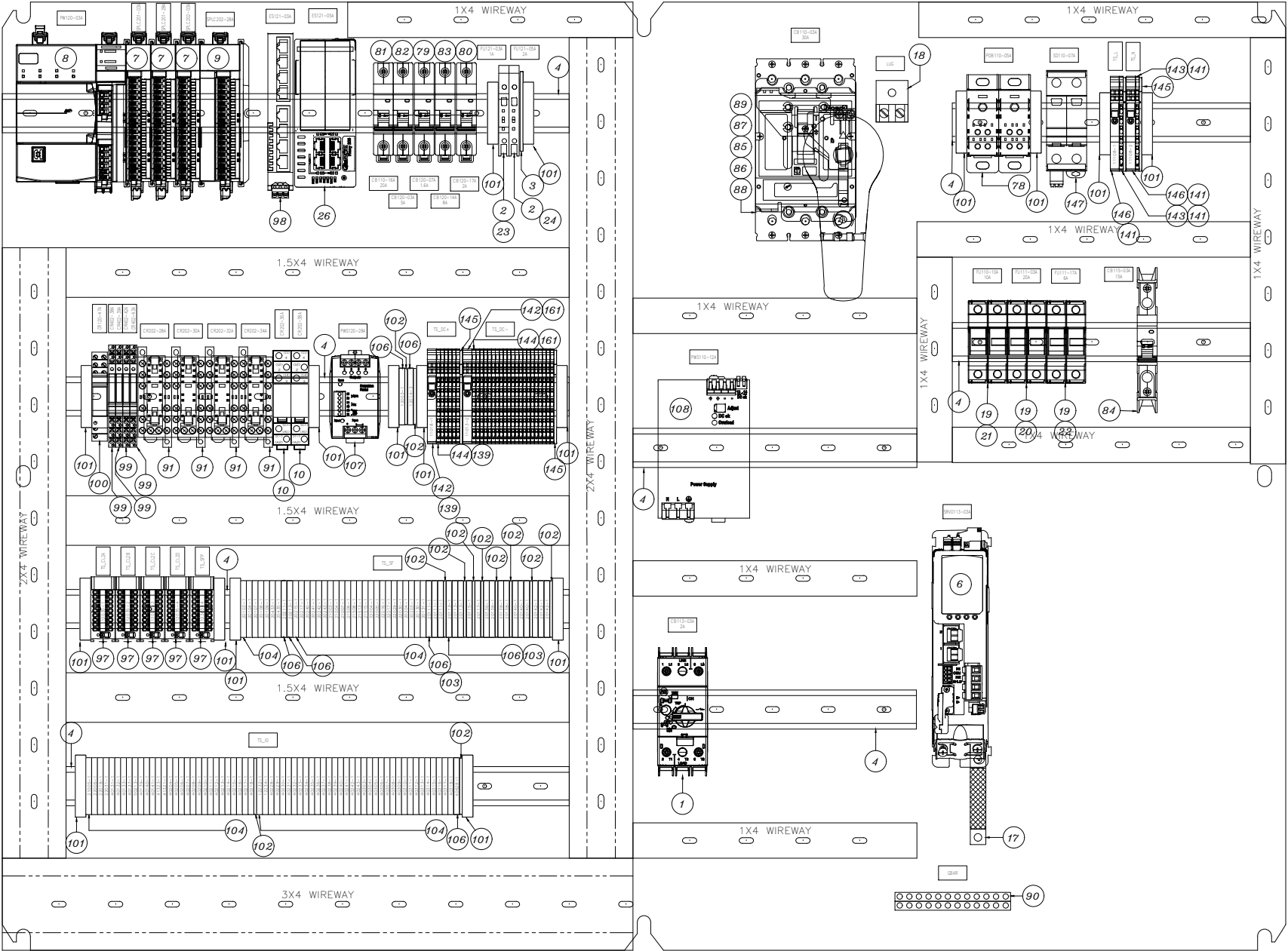
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REVISION HISTORY			
REV	DATE	STATE	RELEASED
A	1/20/2025	RELEASED	2/14/2025



DWG. TITLE	
TOPIDERM CONTRACT MANUFACTURING TOWELETTTE PACKETS BOXING MACHINE MAIN ENCLOSURE (SERVO) ~ EXTERIOR	
ENGINEER J. KEENE	CHECKED BY J.C.K
JOB NO B16821	DRAWN BY J.K.
SCALE N.T.S.	DATE 10/2024
DWG NO B16821- E705	
ELECTRICAL ASSEMBLY	SHEET 705

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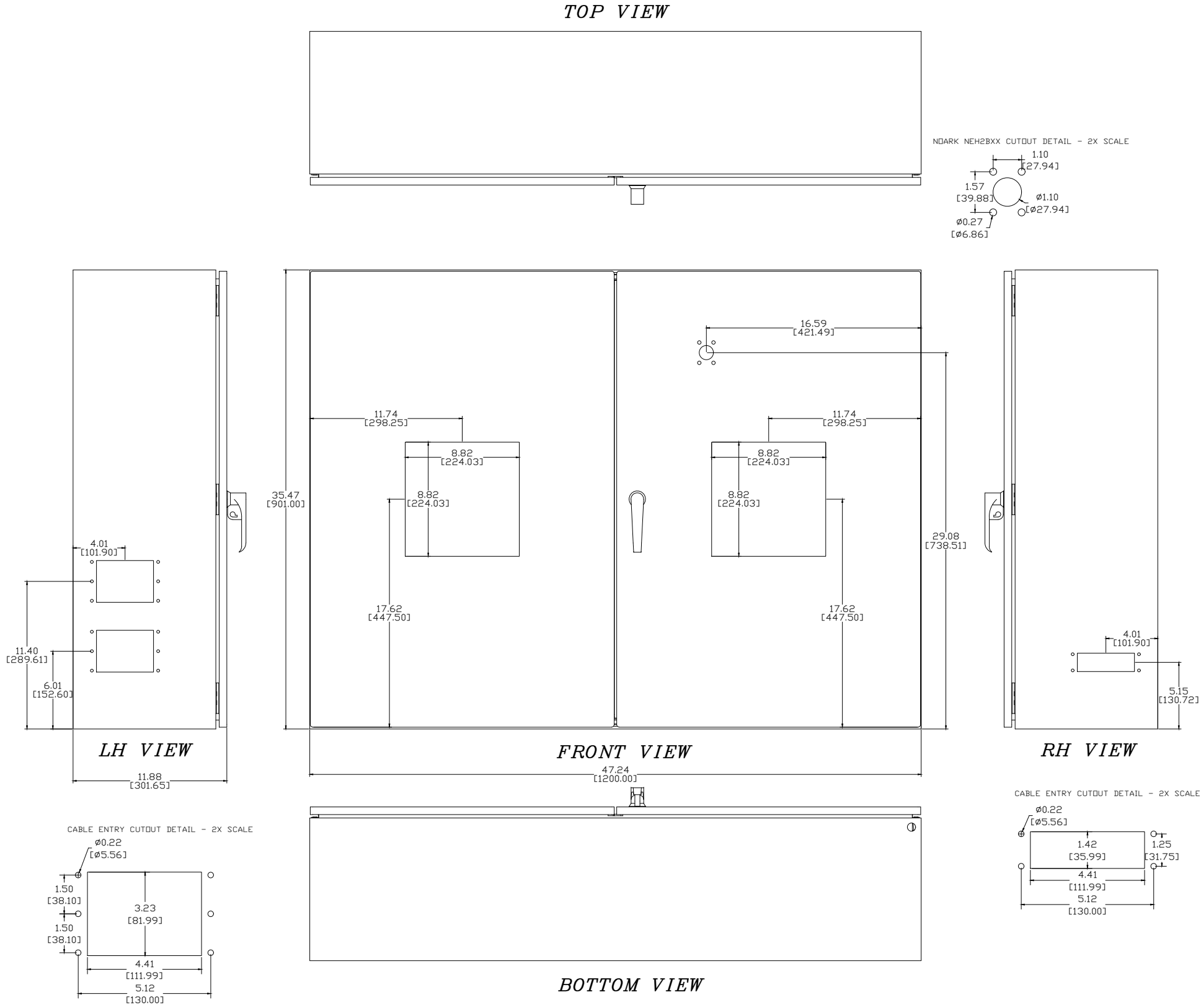


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REVISION HISTORY			
REV	DATE	STATE	RELEASE DATE
A	1/20/2025	RELEASED	2/14/2025
		ENGINEER	Jeremy Keene

DWG. TITLE			
TOPIDERM CONTRACT MANUFACTURING			
TOWELETTE PACKETS			
BOXING MACHINE			
MAIN ENCLOSURE (SERVO) ~ INTERIOR			
ENGINEER		CHECKED BY	
J. KEENE		J.C.K	
JOB NO		DRAWN BY	
B16821		J.K.	
SCALE		DATE	
N.T.S.		10/2024	
DWG. NO			
B16821- E706			
ELECTRICAL		SHEET	
ASSEMBLY		706	

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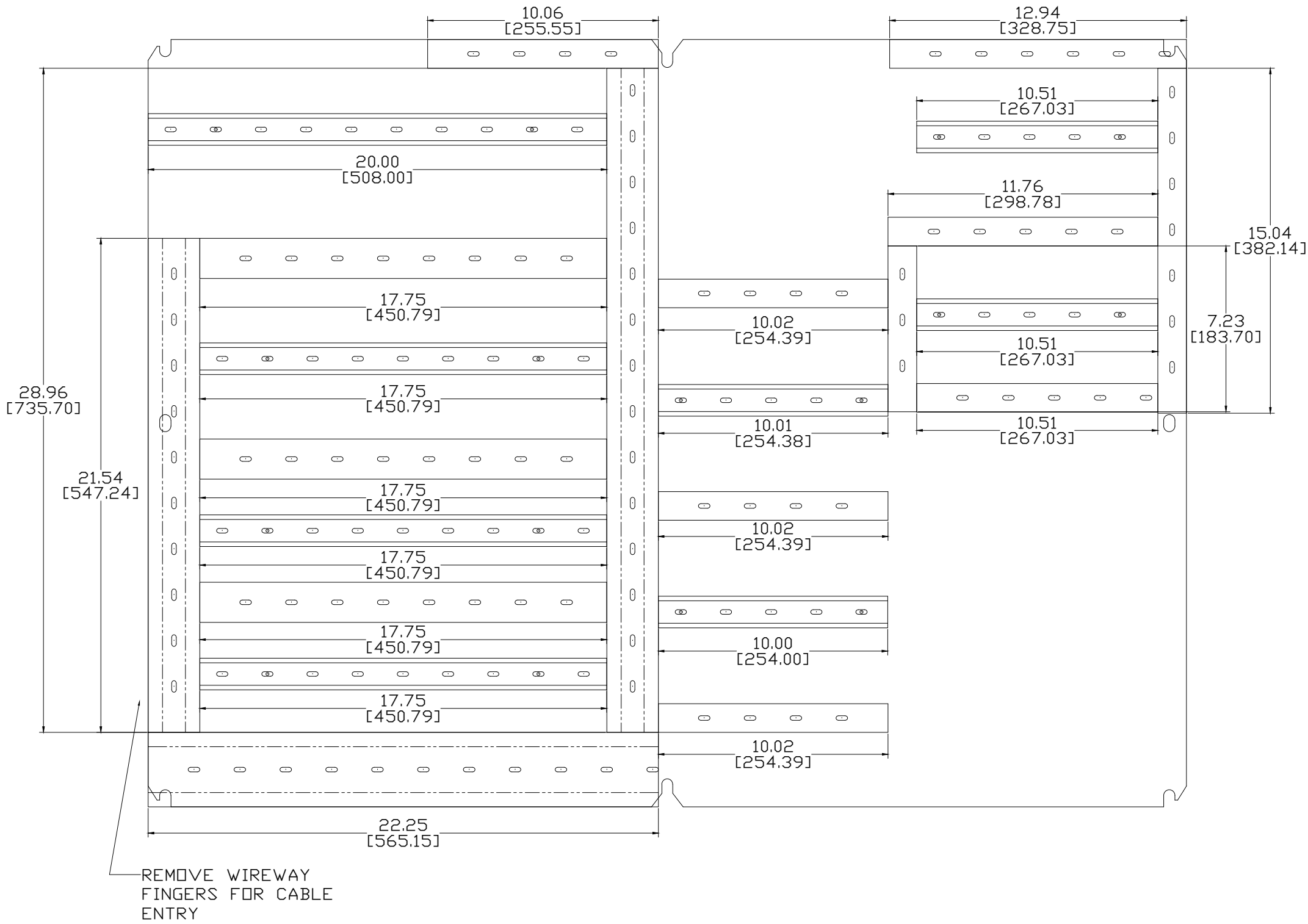
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REVISION HISTORY			
REV	DATE	ENGINEER	RELEASE DATE
A	1/20/2025	Jeremy Keene	2/14/2025



DWG. TITLE	
TOPIDERM CONTRACT MANUFACTURING TOWELETTES PACKETS BOXING MACHINE MAIN ENCLOSURE (SERVO) ~ EXTERIOR CUTOUT	
ENGINEER J. KEENE	CHECKED BY J.C.K
JOB NO B16821	DRAWN BY J.K.
SCALE N.T.S.	DATE 10/2024
DWG NO B16821- E707	
ELECTRICAL ASSEMBLY	SHEET 707

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REVISION HISTORY			
REV	DATE	ENGINEER	RELEASE DATE
A	1/20/2025	Jeremy Keene	2/14/2025

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DWG. TITLE
**TOPIDERM CONTRACT MANUFACTURING
TOWELETTE PACKETS
BOXING MACHINE
MAIN ENCLOSURE (SERVO) ~ INTERIOR LAYOUT**

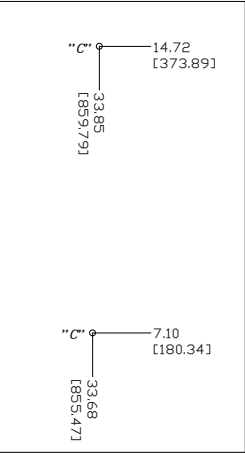
ENGINEER J. KEENE	CHECKED BY J.C.K
JOB NO B16821	DRAWN BY J.K.
SCALE N.T.S.	DATE 10/2024

DWG NO
B16821- E708

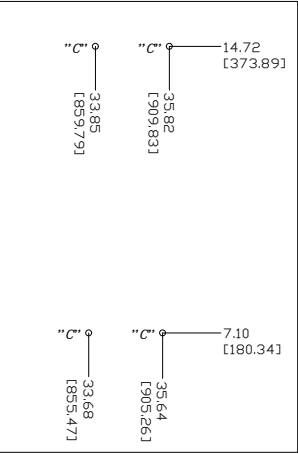
ELECTRICAL ASSEMBLY	SHEET 708
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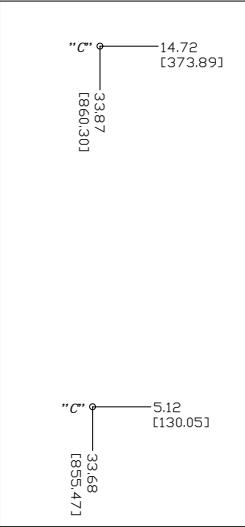
OPTION 1
SINGLE FRAME SIZE 1



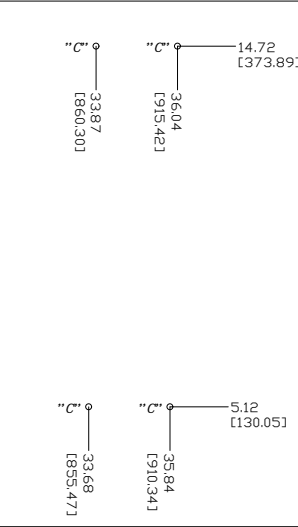
OPTION 2
DOUBLE FRAME SIZE 1



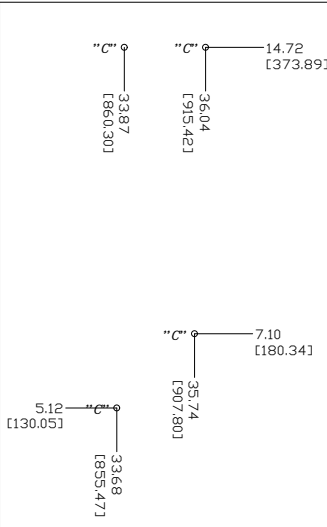
OPTION 3
SINGLE FRAME SIZE 2



OPTION 4
DOUBLE FRAME SIZE 2



OPTION 5
FRAME SIZE 2 WITH FRAME 1



SERVO HOLE PATTERN	
OPTION 1	X
OPTION 2	-
OPTION 3	-
OPTION 4	-
OPTION 5	-

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REVISION HISTORY			
REV	DATE	STATE	RELEASE DATE
A	1/20/2025	RELEASED	2/14/2025
		ENGINEER	Jeremy Keene



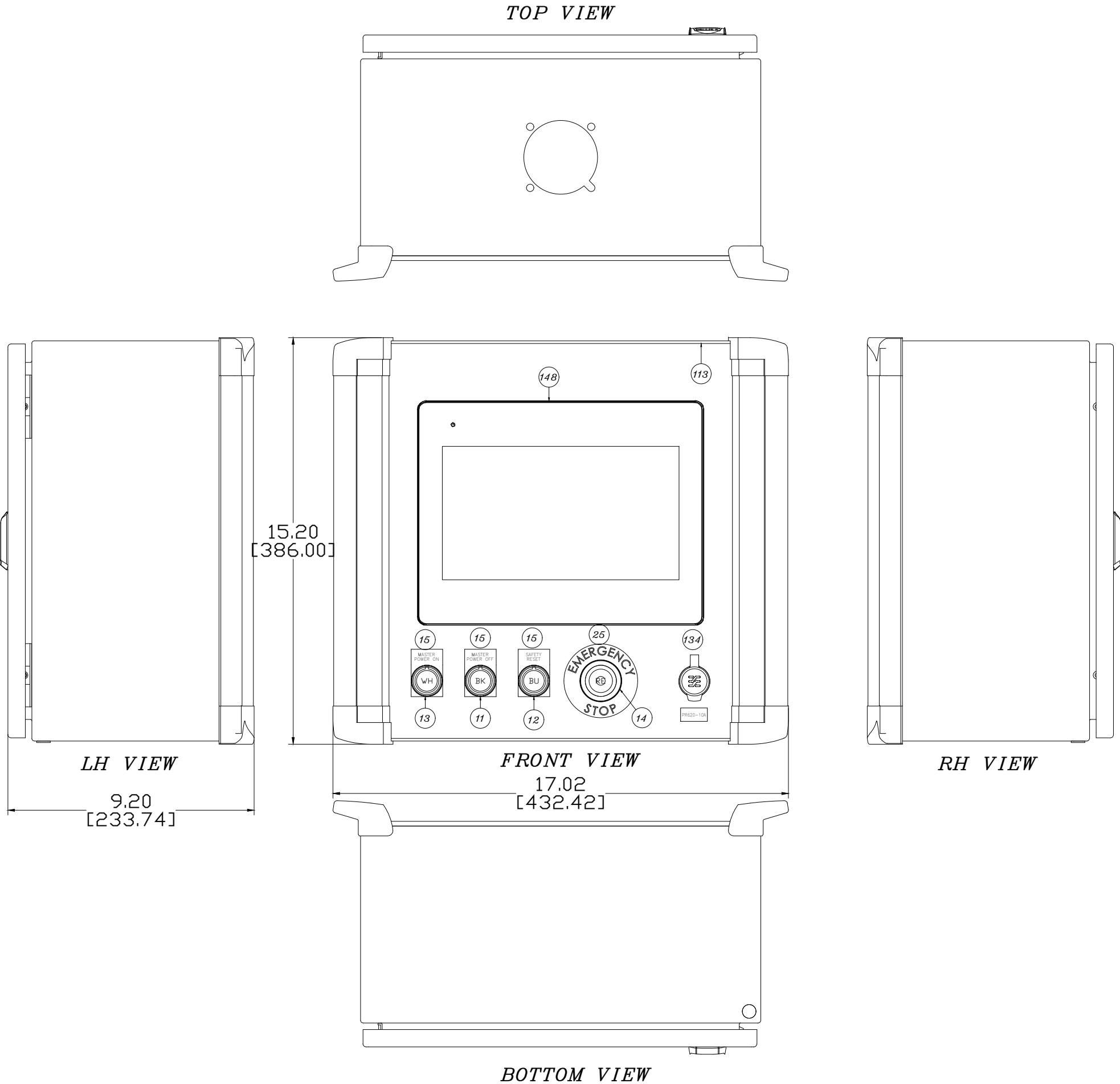
DWG TITLE
TOPIDERM CONTRACT MANUFACTURING
TOWELETTE PACKETS
BOXING MACHINE
MAIN ENCLOSURE (SERVO) ~ MOUNTING HOLE PATTERNS

ENGINEER J. KEENE	CHECKED BY J.C.K
JOB NO B16821	DRAWN BY J.K.
SCALE N.T.S.	DATE 10/2024

DWG NO
B16821- E710

ELECTRICAL ASSEMBLY	SHEET 710
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REVISION HISTORY			
REV	DATE	STATE	RELEASE DATE
A	1/20/2025	RELEASED	2/14/2025
		ENGINEER	Jeremy Keene

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DWG. TITLE
**TOPIDERM CONTRACT MANUFACTURING
TOWELETTE PACKETS
BOXING MACHINE
OPERATOR PANEL ~ EXTERIOR**

ENGINEER J. KEENE	CHECKED BY J.C.K
JOB NO B16821	DRAWN BY J.K.
SCALE N.T.S.	DATE 10/2024

DWG NO
B16821- E711

ELECTRICAL ASSEMBLY	SHEET 711
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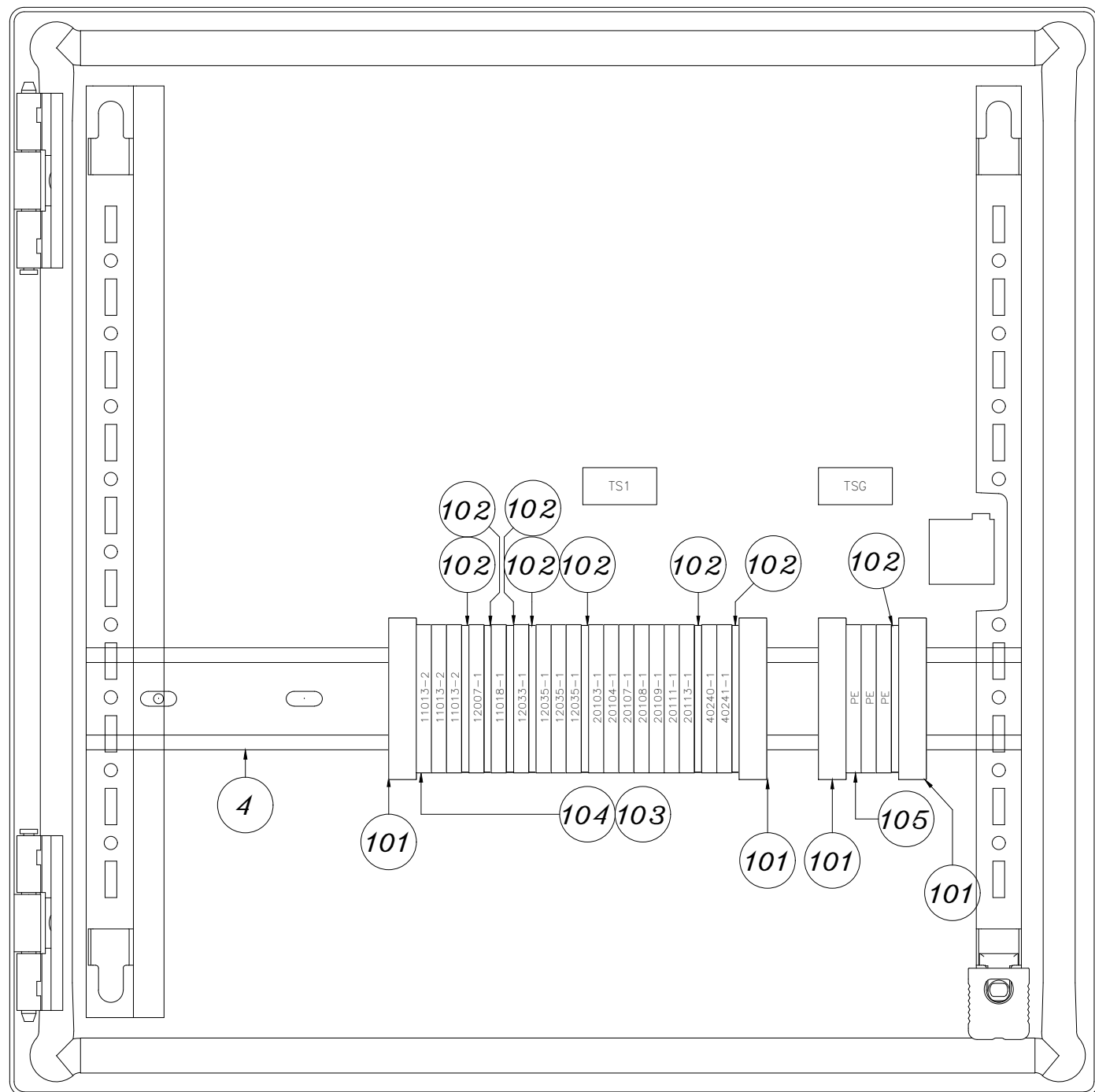
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REVISION HISTORY				
REV	DATE	STATE	ENGINEER	RELEASE DATE
A	1/20/2025	RELEASED	Jeremy Keane	2/14/2025

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DWG. TITLE
TOPIDERM CONTRACT MANUFACTURING
TOWELETTE PACKETS
BOXING MACHINE
OPERATOR PANEL ~ INTERIOR

ENGINEER <i>J. KEENE</i>	CHECKED BY <i>J.C.K</i>
DRAWN NO <i>B16821</i>	DRAWN BY <i>J.K.</i>
SCALE <i>N.T.S.</i>	DATE <i>10/2024</i>

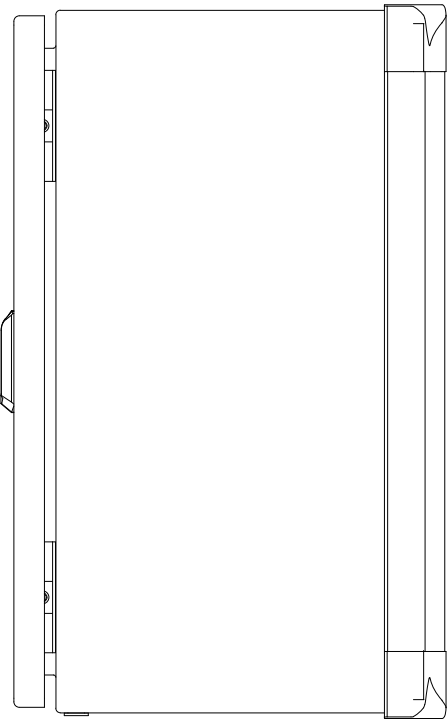
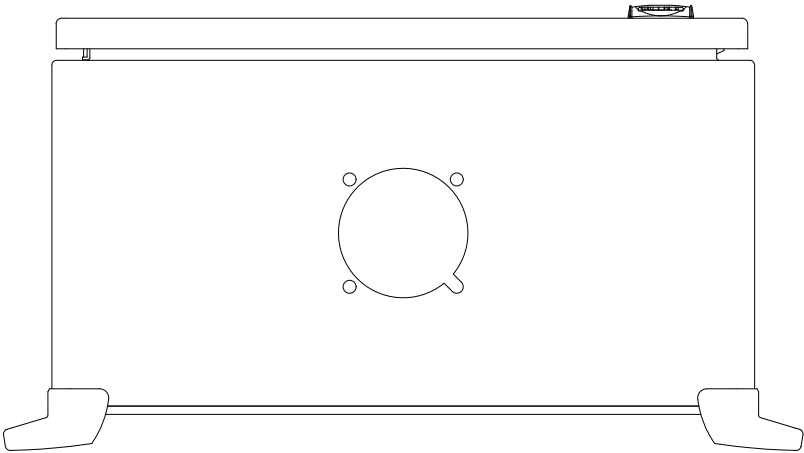
B16821-E712

<i>ELECTRICAL</i>	<i>SHEET</i>
<i>ASSEMBLY</i>	712

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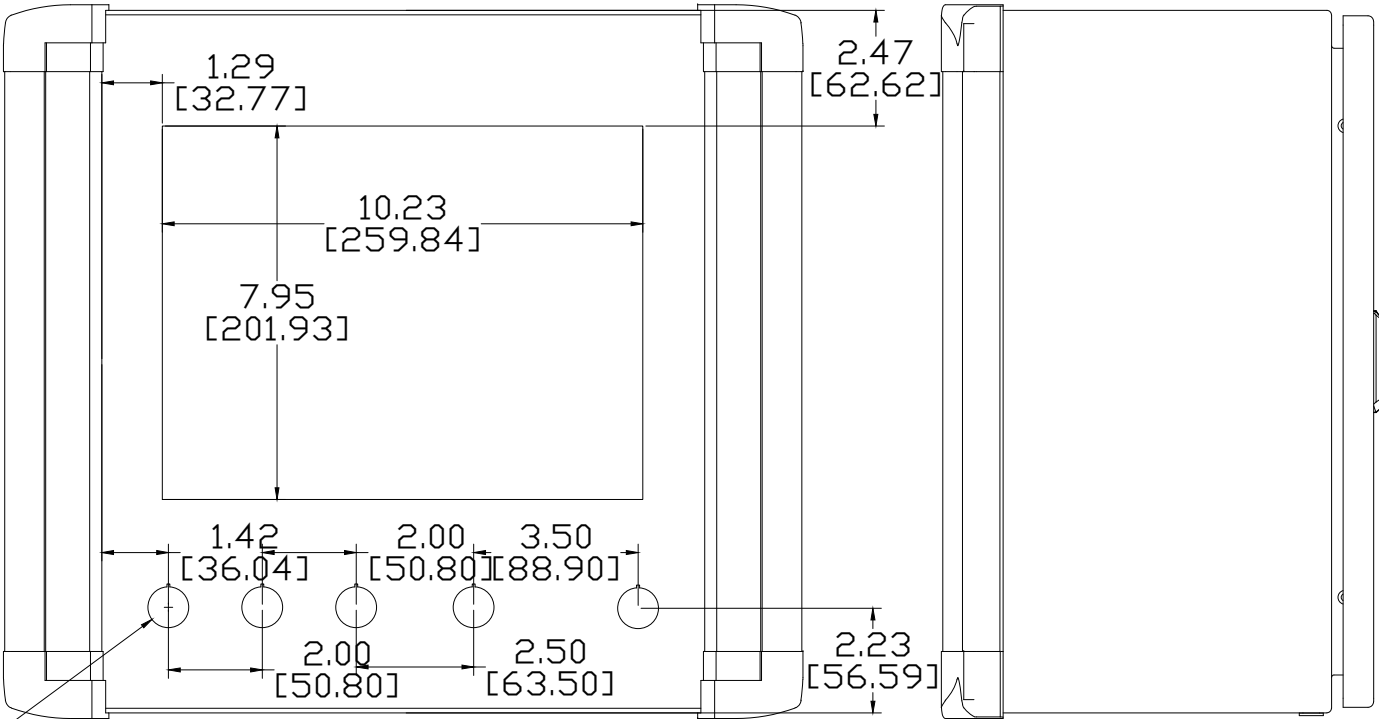
RITTAL 6320.350 CABINET

TOP VIEW



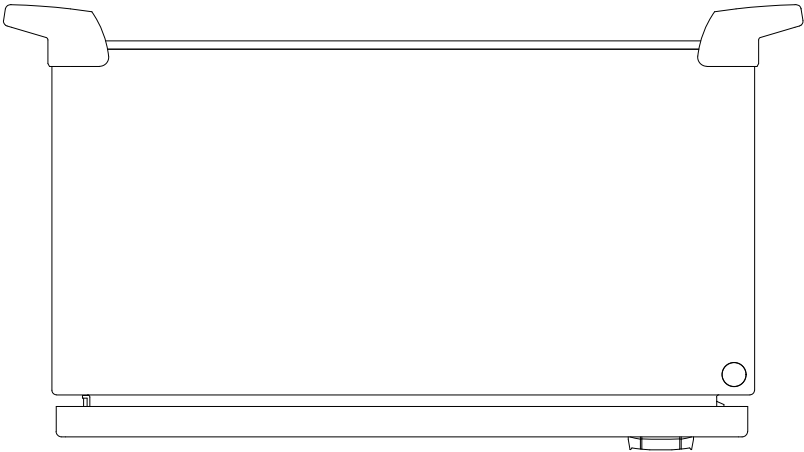
LH VIEW

Ø0.87
[Ø22.00]
5 PLACES



FRONT VIEW

RH VIEW



BOTTOM VIEW

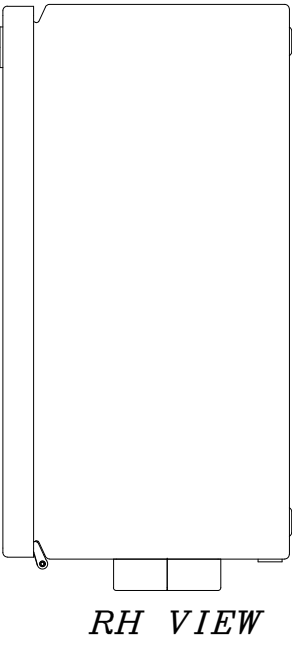
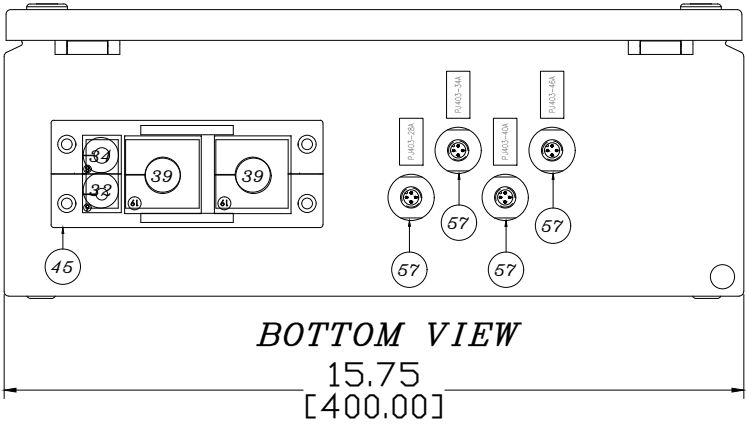
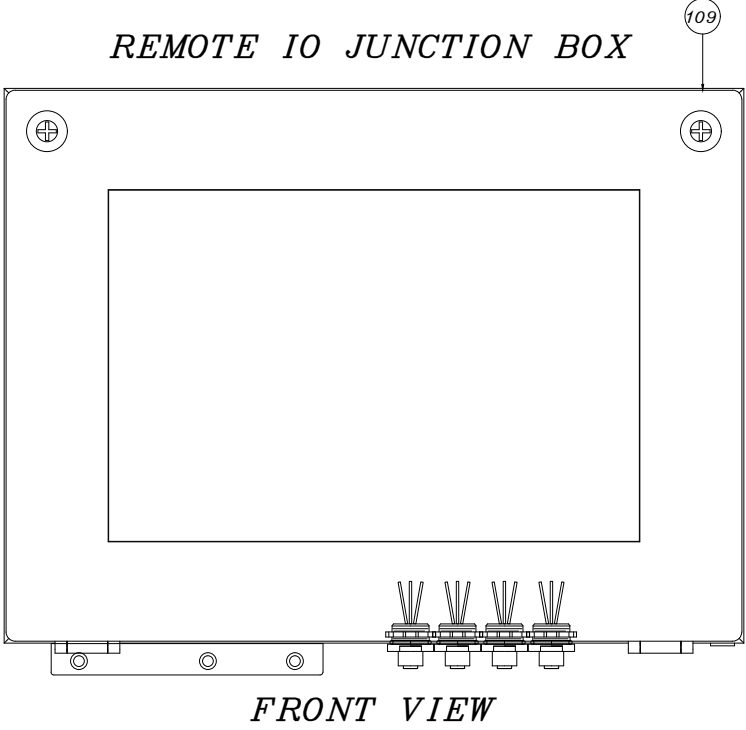
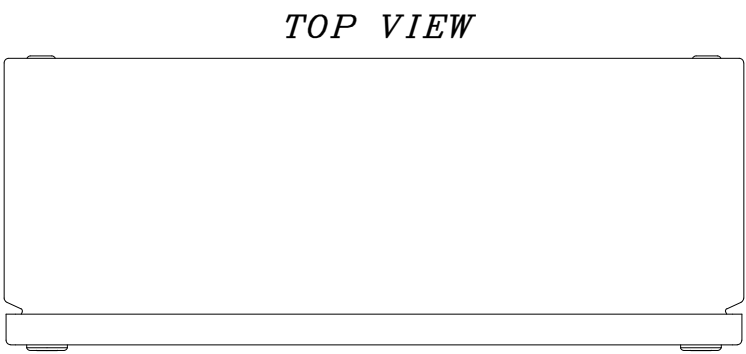
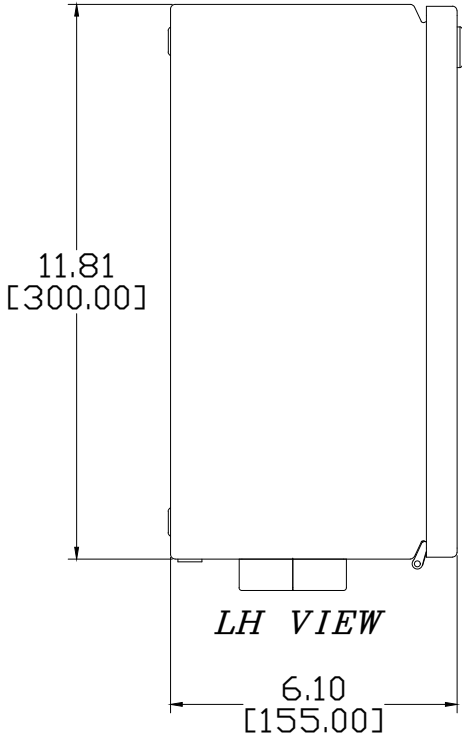
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REVISION HISTORY			
REV	DATE	ENGINEER	RELEASE DATE
A	1/20/2025	Jeremy Keene	2/14/2025



DWG. TITLE	
TOPIDERM CONTRACT MANUFACTURING TOWELETTE PACKETS BOXING MACHINE OPERATOR PANEL ~ EXTERIOR CUTOUT	
ENGINEER J. KEENE	CHECKED BY J.C.K
JOB NO B16821	DRAWN BY J.K.
SCALE N.T.S.	DATE 10/2024
DWG NO B16821- E713	
ELECTRICAL ASSEMBLY	SHEET 713

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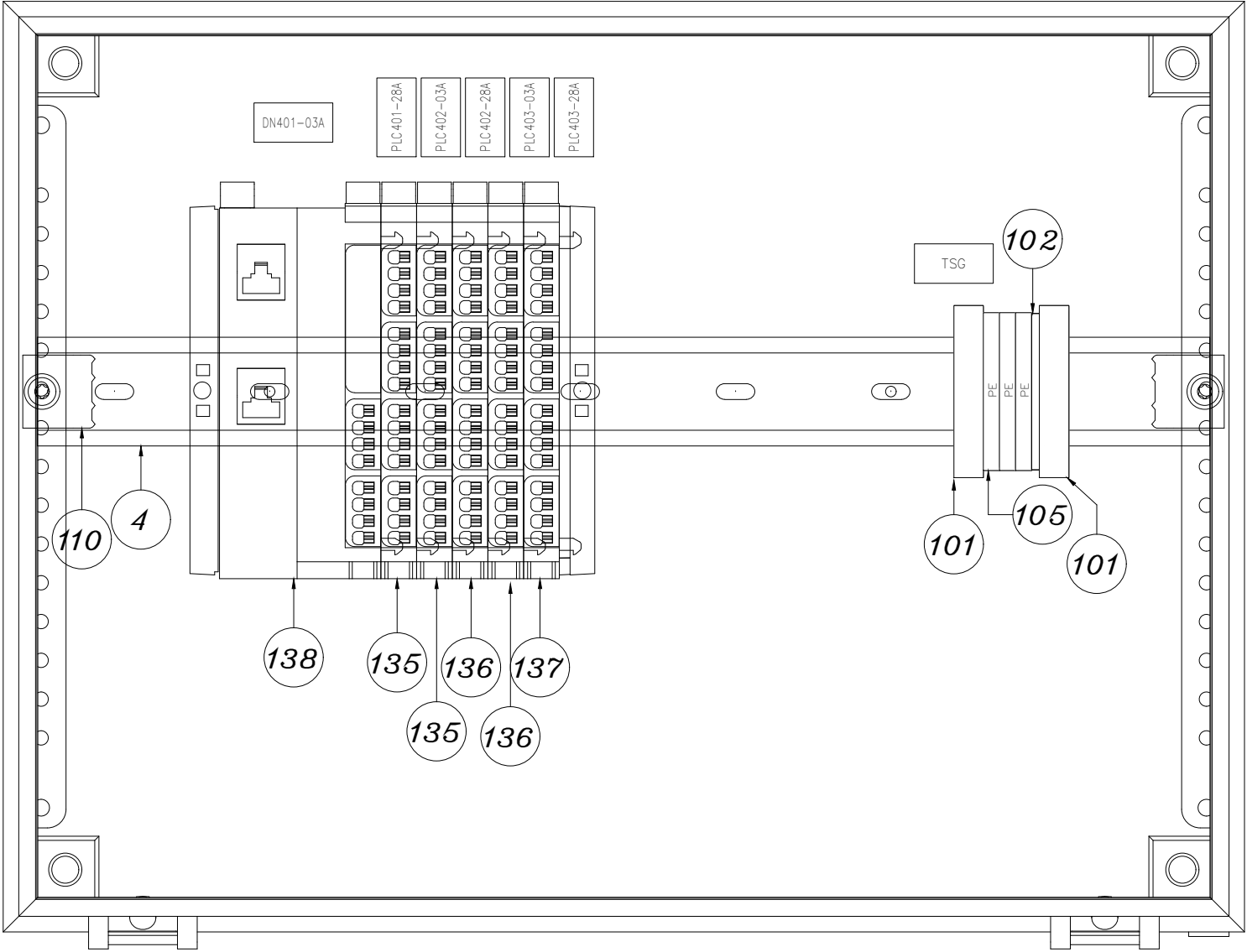
REVISION HISTORY			
REV	DATE	STATE	RELEASE DATE
A	1/20/2025	RELEASED	2/14/2025
		ENGINEER	Jeremy Keene



DWG. TITLE	
TOPIDERM CONTRACT MANUFACTURING TOWELETTE PACKETS BOXING MACHINE JUNCTION BOX 1 ~ EXTERIOR	
ENGINEER J. KEENE	CHECKED BY J.C.K
JOB NO B16821	DRAWN BY J.K.
SCALE N.T.S.	DATE 10/2024
DWG NO B16821- E714	
ELECTRICAL ASSEMBLY	SHEET 714

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REMOTE IO JUNCTION BOX LAYOUT



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REVISION HISTORY			
REV	DATE	STATE	ENGINEER
A	1/20/2025	RELEASED	Jeremy Keene
		RELEASED	2/14/2025

**WAUSEON MACHINE**
995 Enterprise Ave. Wauseon OH 43567 • Ph (419)337-0940 • www.wauseonmachine.com

DWG. TITLE
**TOPIDERM CONTRACT MANUFACTURING
TOWELETTE PACKETS
BOXING MACHINE
JUNCTION BOX 1 ~ INTERIOR**

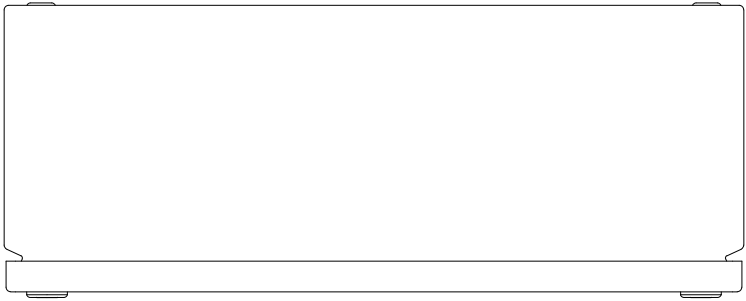
ENGINEER J. KEENE	CHECKED BY J.C.K
JOB NO B16821	DRAWN BY J.K.
SCALE N.T.S.	DATE 10/2024

DWG NO
B16821- E715

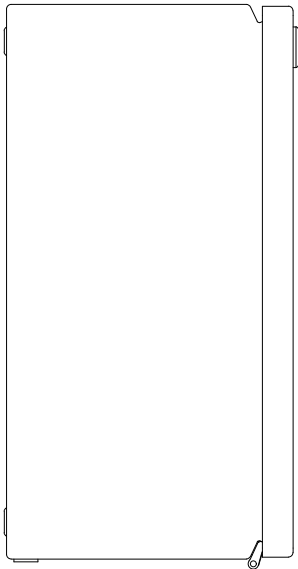
ELECTRICAL ASSEMBLY	SHEET 715
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RITTAL 1611.000 CABINET

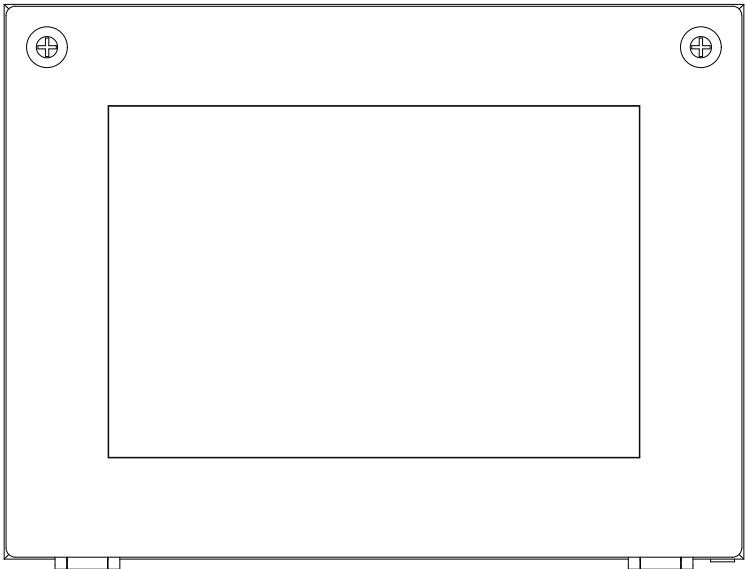
TOP VIEW



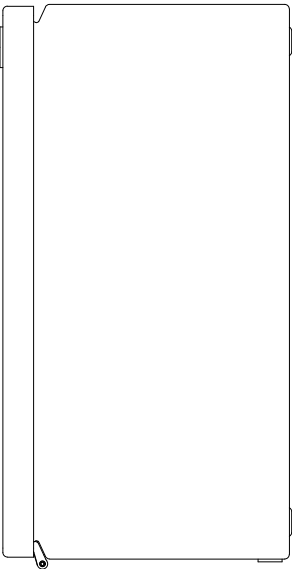
REMOTE IO JUNCTION BOX



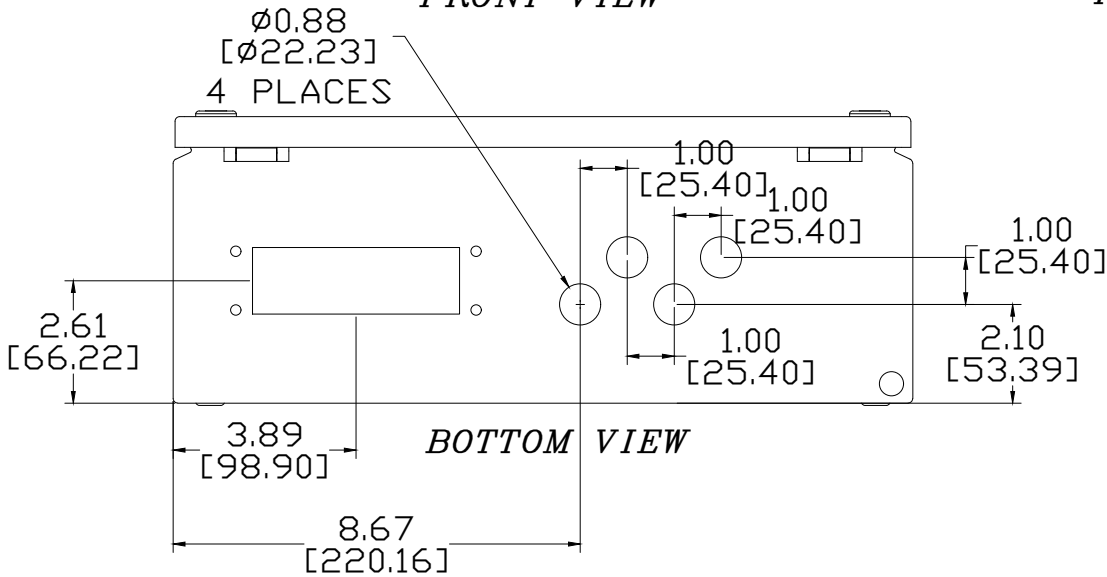
LH VIEW



FRONT VIEW

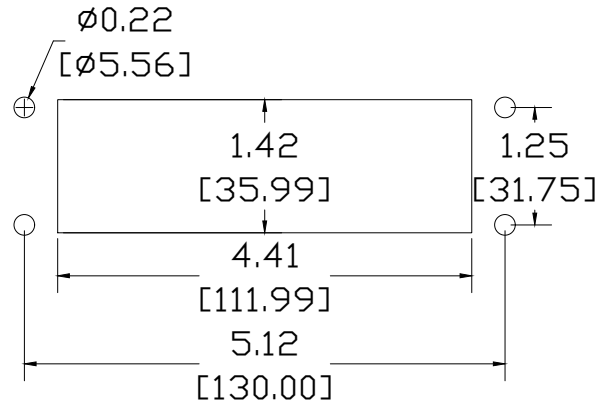


RH VIEW



BOTTOM VIEW

CABLE ENTRY CUTOUT DETAIL - 2X SCALE



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REVISION HISTORY			
REV	DATE	STATE	RELEASE DATE
A	1/20/2025	RELEASED	2/14/2025



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DWG. TITLE	
TOPIDERM CONTRACT MANUFACTURING TOWELETTE PACKETS BOXING MACHINE JUNCTION BOX 1 ~ EXTERIOR CUTOUT	
ENGINEER J. KEENE	CHECKED BY J.C.K
JOB NO B16821	DRAWN BY J.K.
SCALE N.T.S.	DATE 10/2024
DWG NO B16821- E716	
ELECTRICAL ASSEMBLY	SHEET 716

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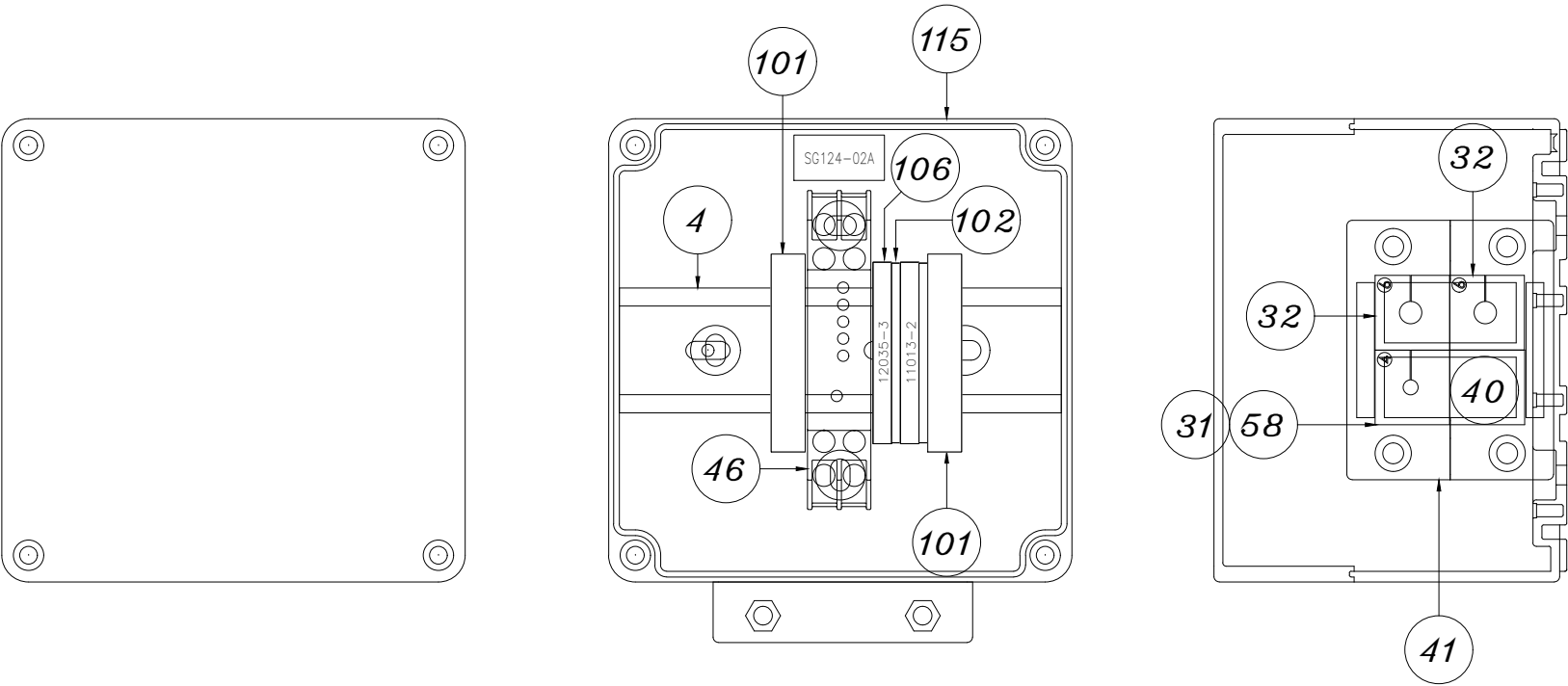
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REVISION HISTORY			
REV	DATE	STATE	RELEASE DATE
A	1/20/2025	RELEASED	2/14/2025
		ENGINEER	Jeremy Keene



DWG. TITLE	
TOPIDERM CONTRACT MANUFACTURING TOWELETTE PACKETS BOXING MACHINE WEIGH SCALE JUNCTION BOX	
ENGINEER J. KEENE	CHECKED BY J.C.K
JOB NO B16821	DRAWN BY J.K.
SCALE N.T.S.	DATE 10/2024
DWG. NO B16821- E726	
ELECTRICAL ASSEMBLY	SHEET 726

731-01

TS_CL2C				
Type1	Number	Manufacturer	Catalog	Jumper
BLU_18AW	12035-3	PHOENIX CONTACT	1047454	☐ ☐ ☐
BLU_18AW	12035-3			☐ ☐ ☐
BRN_16AW	12035-3			☐ ☐ ☐
BRN_22AW	12035-3			☐ ☐ ☐
BLK_18AW	12035-3			☐ ☐ ☐
BLK_18AW	12035-3			☐ ☐ ☐
BLU_18AW	12035-3			☐ ☐ ☐
BLU_18AW	12035-3			☐ ☐ ☐
BLU_18AW	12035-3			☐ ☐ ☐
BRN_16AW	12035-3			☐ ☐ ☐
WHT_22AW	12035-3			☐ ☐ ☐
BRN_22AW	12035-3			☐ ☐ ☐
BLK_18AW	12035-3			☐ ☐ ☐
BRN_22AW	12035-3			☐ ☐ ☐
BLU_24AW	12035-3			☐ ☐ ☐
PNK_24AW	12035-3			☐ ☐ ☐
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				☐ ☐ ☐

731-10

TS_CL2D				
Type1	Number	Manufacturer	Catalog	Jumper
BLU_18AW	12035-4	PHOENIX CONTACT	1047454	☐ ☐ ☐
WHT_24AW	12035-4			☐ ☐ ☐
YEL_24AW	12035-4			☐ ☐ ☐
BLK_24AW	12035-4			☐ ☐ ☐
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731-19

TS_SFP				
Type1	Number	Manufacturer	Catalog	Jumper
BLU_18AW	12303-4	PHOENIX CONTACT	1047454	☐ ☐ ☐
BLK_16AW	12303-4			☐ ☐ ☐
WHT_22AW	12303-4			☐ ☐ ☐
	12303-4			☐ ☐ ☐
	12303-4			☐ ☐ ☐
	12303-4			☐ ☐ ☐
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TS_SF				
Type1	Number	Manufacturer	Catalog	Jumper
	A1	PHOENIX CONTACT	3022218	
BLK_18AW	20103-1	PHOENIX CONTACT	3211799	☐ ☐ ☐
BLK_18AW	20104-1	PHOENIX CONTACT	3211799	☐ ☐ ☐
BLK_18AW	20107-1	PHOENIX CONTACT	3211799	☐ ☐ ☐
BLK_18AW	20108-1	PHOENIX CONTACT	3211799	☐ ☐ ☐
BLK_18AW	20109-1	PHOENIX CONTACT	3211799	☐ ☐ ☐
BLK_18AW	20433-1	PHOENIX CONTACT	3211799	☐ ☐ ☐
BLK_18AW	20435-1	PHOENIX CONTACT	3211799	☐ ☐ ☐
BLU_18AW	20211-1	PHOENIX CONTACT	3211896	☐ ☐ ☐
BLU_18AW	20211-1			☐ ☐ ☐
BLK_18AW	20211-1			☐ ☐ ☐
BLU_18AW	20213-1	PHOENIX CONTACT	3211896	☐ ☐ ☐
BLU_18AW	20213-1			☐ ☐ ☐
BLK_18AW	20213-1			☐ ☐ ☐
BRN_24AW	20215-1	PHOENIX CONTACT	3211799	☐ ☐ ☐
BRN_24AW	20217-1			☐ ☐ ☐
BLU_18AW	20240-1	PHOENIX CONTACT	3211799	☐ ☐ ☐
BLU_18AW	20241-1	PHOENIX CONTACT	3211799	☐ ☐ ☐
BLU_18AW	20242-1	PHOENIX CONTACT	3211799	☐ ☐ ☐
BLU_18AW	20243-1	PHOENIX CONTACT	3211799	☐ ☐ ☐
GRY_24AW	21003-1	PHOENIX CONTACT	3211799	☐ ☐ ☐
PNK_24AW	21004-1	PHOENIX CONTACT	3211799	☐ ☐ ☐
DRG_24AW	21007-1	PHOENIX CONTACT	3211799	☐ ☐ ☐
WHT_24AW	21506-1	PHOENIX CONTACT	3211799	☐ ☐ ☐
BLK_24AW	21508-1	PHOENIX CONTACT	3211799	☐ ☐ ☐
WHT_24AW	21513-1	PHOENIX CONTACT	3211799	☐ ☐ ☐
BLK_24AW	21515-1	PHOENIX CONTACT	3211799	☐ ☐ ☐
GRY_24AW	22004-1	PHOENIX CONTACT	3211799	☐ ☐ ☐
PNK_24AW	22005-1	PHOENIX CONTACT	3211799	☐ ☐ ☐
GRY_24AW	22016-1	PHOENIX CONTACT	3211799	☐ ☐ ☐
PNK_24AW	22017-1	PHOENIX CONTACT	3211799	☐ ☐ ☐

TS_SF				
Type1	Number	Manufacturer	Catalog	Jumper
GRY_24AW	22029-1	PHOENIX CONTACT	3211799	☐ ☐ ☐
PNK_24AW	22030-1	PHOENIX CONTACT	3211799	☐ ☐ ☐
BLU_18AW	20204-1	PHOENIX CONTACT	3211799	☐ ☐ ☐
BLU_18AW	20203-1	PHOENIX CONTACT	3211799	☐ ☐ ☐
BLU_18AW	20130-1	PHOENIX CONTACT	3211799	☐ ☐ ☐
BLU_18AW	20131-1	PHOENIX CONTACT	3211799	☐ ☐ ☐
BLK_18AW	20111-1	PHOENIX CONTACT	3211896	☒ ☐ ☐
				☐ ☐ ☐
				☐ ☐ ☐
BLU_18AW	20111-1	PHOENIX CONTACT	3211896	☒ ☐ ☐
		PHOENIX CONTACT	3211896	☐ ☐ ☐
				☐ ☐ ☐
				☐ ☐ ☐
WHT_24AW	20111-1	PHOENIX CONTACT	3211896	☒ ☐ ☐
				☐ ☐ ☐
				☐ ☐ ☐
	A2	PHOENIX CONTACT	3031762	
BLK_18AW	20113-1	PHOENIX CONTACT	3211896	☒ ☐ ☐
				☐ ☐ ☐
				☐ ☐ ☐
BLU_18AW	20113-1	PHOENIX CONTACT	3211896	☒ ☐ ☐
YEL_24AW	20113-1	PHOENIX CONTACT	3211896	☒ ☐ ☐
				☐ ☐ ☐
				☐ ☐ ☐
	A2	PHOENIX CONTACT	3031762	
BLU_18AW	20115-1	PHOENIX CONTACT	3211896	☐ ☐ ☐
				☐ ☐ ☐
				☐ ☐ ☐
	A2	PHOENIX CONTACT	3031762	
BLU_18AW	20117-1	PHOENIX CONTACT	3211896	☐ ☐ ☐
				☐ ☐ ☐
				☐ ☐ ☐
	A2	PHOENIX CONTACT	3031762	
	20136-1	PHOENIX CONTACT	3211896	☐ ☐ ☐
				☐ ☐ ☐
				☐ ☐ ☐
BLU_18AW	20136-1	PHOENIX CONTACT	3211896	☐ ☐ ☐
				☐ ☐ ☐
				☐ ☐ ☐
	A2	PHOENIX CONTACT	3031762	
	20138-1	PHOENIX CONTACT	3211896	☐ ☐ ☐
				☐ ☐ ☐
				☐ ☐ ☐
BLU_18AW	20138-1	PHOENIX CONTACT	3211896	☐ ☐ ☐
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				☐ ☐ ☐
	A2	PHOENIX CONTACT	3031762	

TS_SF				
Type1	Number	Manufacturer	Catalog	Jumper
BLU_18AW	20140-1	PHOENIX CONTACT	3211896	☒ ☐ ☐
				☐ ☐ ☐
				☐ ☐ ☐
BLU_18AW	20140-1	PHOENIX CONTACT	3211896	☒ ☐ ☐
				☐ ☐ ☐
				☐ ☐ ☐
BLU_18AW	20140-1	PHOENIX CONTACT	3211896	☒ ☐ ☐
				☐ ☐ ☐
				☐ ☐ ☐
	A2	PHOENIX CONTACT	3031762	
BLU_18AW	20142-1	PHOENIX CONTACT	3211896	☒ ☐ ☐
				☐ ☐ ☐
				☐ ☐ ☐
BLU_18AW	20142-1	PHOENIX CONTACT	3211896	☒ ☐ ☐
				☐ ☐ ☐
				☐ ☐ ☐
	A2	PHOENIX CONTACT	3031762	
	A1	PHOENIX CONTACT	3022218	

TS_DC				
Type1	Number	Manufacturer	Catalog	Jumper
	A1	PHOENIX CONTACT	3022218	
BLU_18AW	12003-1	PHOENIX CONTACT	3211896	☐ ☐ ☐
BLU_18AW	12003-1			☐ ☐ ☐
BLU_18AW	12003-1			☐ ☐ ☐
	A2	PHOENIX CONTACT	3031762	
BLU_16AW	12014-3	PHOENIX CONTACT	3211896	☐ ☐ ☐
BLK_16AW	12014-3			☐ ☐ ☐
				☐ ☐ ☐
	A2	PHOENIX CONTACT	3031762	

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REVISION HISTORY		ENGINEER	
REV	DATE	STATE	RELEASED
A	1/20/2025	RELEASED	2/14/2025



DWG. TITLE	
TOPIDERM CONTRACT MANUFACTURING TOWELETTE PACKETS BOXING MACHINE TERMINAL STRIP LAYOUT	
ENGINEER J. KEENE	CHECKED BY J.C.K
JOB NO B16821	DRAWN BY J.K.
SCALE N.T.S.	DATE 10/2024
DWG NO B16821- E731	
ELECTRICAL ASSEMBLY	SHEET 731

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TS_ID				
Type1	Number	Manufacturer	Catalog	Jumper
	A1	PHOENIX CONTACT	3022218	
BLK_24AW G	21005-1	PHOENIX CONTACT	3211799	○ ○ ○
WHT_24AW G	22006-1	PHOENIX CONTACT	3211799	○ ○ ○
WHT_24AW G	22018-1	PHOENIX CONTACT	3211799	○ ○ ○
WHT_24AW G	22031-1	PHOENIX CONTACT	3211799	○ ○ ○
BLK_18AW G	40131-1	PHOENIX CONTACT	3211799	○ ○ ○
BLK_18AW G	40132-1	PHOENIX CONTACT	3211799	○ ○ ○
BLK_18AW G	40133-1	PHOENIX CONTACT	3211799	○ ○ ○
BLK_18AW G	40137-1	PHOENIX CONTACT	3211799	○ ○ ○
PNK_24AW G	50213-1	PHOENIX CONTACT	3211799	○ ○ ○
BLK_18AW G	40139-1	PHOENIX CONTACT	3211799	○ ○ ○
BLK_18AW G	40140-1	PHOENIX CONTACT	3211799	○ ○ ○
BLK_18AW G	40141-1	PHOENIX CONTACT	3211799	○ ○ ○
RED_24AW G	41323-1	PHOENIX CONTACT	3211799	○ ○ ○
GRY_24AW G	41321-1	PHOENIX CONTACT	3211799	○ ○ ○
BLK_18AW G	40204-1	PHOENIX CONTACT	3211799	○ ○ ○
BLK_18AW G	40205-1	PHOENIX CONTACT	3211799	○ ○ ○
BLK_18AW G	40206-1	PHOENIX CONTACT	3211799	○ ○ ○
BLK_18AW G	40207-1	PHOENIX CONTACT	3211799	○ ○ ○
BLK_18AW G	40208-1	PHOENIX CONTACT	3211799	○ ○ ○
BLK_18AW G	40209-1	PHOENIX CONTACT	3211799	○ ○ ○
BLK_18AW G	40210-1	PHOENIX CONTACT	3211799	○ ○ ○
BLK_18AW G	40211-1	PHOENIX CONTACT	3211799	○ ○ ○
BLK_18AW G	40212-1	PHOENIX CONTACT	3211799	○ ○ ○
BLK_18AW G	40213-1	PHOENIX CONTACT	3211799	○ ○ ○
BLK_18AW G	40214-1	PHOENIX CONTACT	3211799	○ ○ ○
BLK_18AW G	40215-1	PHOENIX CONTACT	3211799	○ ○ ○
BLK_18AW G	40216-1	PHOENIX CONTACT	3211799	○ ○ ○

TSG				
Type1	Number	Manufacturer	Catalog	Jumper
	A1	PHOENIX CONTACT	3022218	
	PE	PHOENIX CONTACT	3211867	○ ○ ○
	PE	PHOENIX CONTACT	3211867	○ ○ ○
	PE	PHOENIX CONTACT	3211867	○ ○ ○
	A2	PHOENIX CONTACT	3031762	
	A1	PHOENIX CONTACT	3022218	

TS_ID				
Type1	Number	Manufacturer	Catalog	Jumper
BLK_18AW G	40217-1	PHOENIX CONTACT	3211799	○ ○ ○
BLK_18AW G	40218-1	PHOENIX CONTACT	3211799	○ ○ ○
	A2	PHOENIX CONTACT	3031762	
BLU_18AW G	12232-1	PHOENIX CONTACT	3211799	○ ○ ○
BLK_22AW G	12234-1	PHOENIX CONTACT	3211799	○ ○ ○
BLK_18AW G	40228-1	PHOENIX CONTACT	3211799	○ ○ ○
BLK_18AW G	40229-1	PHOENIX CONTACT	3211799	○ ○ ○
BLK_18AW G	40230-1	PHOENIX CONTACT	3211799	○ ○ ○
BLK_18AW G	40231-1	PHOENIX CONTACT	3211799	○ ○ ○
BLK_18AW G	40232-1	PHOENIX CONTACT	3211799	○ ○ ○
BLK_18AW G	40233-1	PHOENIX CONTACT	3211799	○ ○ ○
GRN_24AW G	40234-1	PHOENIX CONTACT	3211799	○ ○ ○
GRN_24AW G	40235-1	PHOENIX CONTACT	3211799	○ ○ ○
GRN_24AW G	40236-1	PHOENIX CONTACT	3211799	○ ○ ○
BLK_18AW G	40237-1	PHOENIX CONTACT	3211799	○ ○ ○
BLK_18AW G	40238-1	PHOENIX CONTACT	3211799	○ ○ ○
BLK_18AW G	40239-1	PHOENIX CONTACT	3211799	○ ○ ○
BLK_18AW G	40240-1	PHOENIX CONTACT	3211799	○ ○ ○
BLK_18AW G	40241-1	PHOENIX CONTACT	3211799	○ ○ ○
BLK_18AW G	40242-1	PHOENIX CONTACT	3211799	○ ○ ○
BLK_18AW G	40243-1	PHOENIX CONTACT	3211799	○ ○ ○
LTBRN_24 AWG	40303-1	PHOENIX CONTACT	3211799	○ ○ ○
RED_24AW G	40304-1	PHOENIX CONTACT	3211799	○ ○ ○
BLK_18AW G	40305-1	PHOENIX CONTACT	3211799	○ ○ ○
BLK_18AW G	40306-1	PHOENIX CONTACT	3211799	○ ○ ○
BLK_18AW G	40307-1	PHOENIX CONTACT	3211799	○ ○ ○
BLK_18AW G	40308-1	PHOENIX CONTACT	3211799	○ ○ ○
BLK_18AW G	40309-1	PHOENIX CONTACT	3211799	○ ○ ○

TSG				
Type1	Number	Manufacturer	Catalog	Jumper
	A1	PHOENIX CONTACT	3022218	
	PE	PHOENIX CONTACT	3211867	○ ○ ○
	PE	PHOENIX CONTACT	3211867	○ ○ ○
	PE	PHOENIX CONTACT	3211867	○ ○ ○
	A2	PHOENIX CONTACT	3031762	
	A1	PHOENIX CONTACT	3022218	

TS_ID				
Type1	Number	Manufacturer	Catalog	Jumper
BLK_18AW G	40310-1	PHOENIX CONTACT	3211799	○ ○ ○
BLK_18AW G	40311-1	PHOENIX CONTACT	3211799	○ ○ ○
BLK_18AW G	40312-1	PHOENIX CONTACT	3211799	○ ○ ○
BLK_18AW G	40313-1	PHOENIX CONTACT	3211799	○ ○ ○
BLK_18AW G	40314-1	PHOENIX CONTACT	3211799	○ ○ ○
BLK_18AW G	40315-1	PHOENIX CONTACT	3211799	○ ○ ○
BLK_18AW G	40316-1	PHOENIX CONTACT	3211799	○ ○ ○
BLK_18AW G	40317-1	PHOENIX CONTACT	3211799	○ ○ ○
BLK_18AW G	40318-1	PHOENIX CONTACT	3211799	○ ○ ○
BLK_18AW G	40628-1	PHOENIX CONTACT	3211896	○ ○ ○
BLU_18AW G	40628-1			○ ○ ○
BLU_18AW G	40628-1			○ ○ ○
	A2	PHOENIX CONTACT	3031762	
	A1	PHOENIX CONTACT	3022218	

GBAR				
Type1	Number	Manufacturer	Catalog	Jumper
GRNYEL_10 AWG	11007-PE	NSI	4-14-12112	○ ○ ○
GRNYEL_14 AWG	11011-PE			○ ○ ○
GRNYEL_10 AWG	11108-2			○ ○ ○
				○ ○ ○
				○ ○ ○
GRNYEL_14 AWG	11305-PE			○ ○ ○
				○ ○ ○
				○ ○ ○
GRNYEL_14 AWG	11503-PE			○ ○ ○
				○ ○ ○
WHTBLU_1 2AWG	11013-2			○ ○ ○
				○ ○ ○
GRNYEL_18 AWG	12003-PE	NSI	4-14-12112	○ ○ ○
GRNYEL_12 AWG	11107-PE			○ ○ ○
PNK_16AW G	42105-PE			○ ○ ○
GRNYEL_18 AWG	12007-PE			○ ○ ○
GRNYEL_18 AWG	12103-PE			○ ○ ○
Pink_16 AWG	42405-PE			○ ○ ○
GRNYEL_14 AWG	11119-PE			○ ○ ○
GRNYEL_18 AWG	12103-PE			○ ○ ○
				○ ○ ○
				○ ○ ○
				○ ○ ○

TS1				
Type1	Number	Manufacturer	Catalog	Jumper
	A1	PHOENIX CONTACT	3022218	
WHTBLU_1 8AWG	11013-2	PHOENIX CONTACT	3211799	○ ○ ○
WHTBLU_1 8AWG	11013-2	PHOENIX CONTACT	3211799	○ ○ ○
WHTBLU_1 8AWG	11013-2	PHOENIX CONTACT	3211799	○ ○ ○
	A2	PHOENIX CONTACT	3031762	
BLK_18AW G	12007-1	PHOENIX CONTACT	3211799	○ ○ ○
	A2	PHOENIX CONTACT	3031762	
BLU_18AW G	11018-1	PHOENIX CONTACT	3211799	○ ○ ○
	A2	PHOENIX CONTACT	3031762	
BLU_18AW G	12033-1	PHOENIX CONTACT	3211799	○ ○ ○
	A2	PHOENIX CONTACT	3031762	
BLU_18AW G	12035-1	PHOENIX CONTACT	3211799	○ ○ ○
BLU_18AW G	12035-1	PHOENIX CONTACT	3211799	○ ○ ○
BLK_18AW G	12035-1	PHOENIX CONTACT	3211799	○ ○ ○
	A2	PHOENIX CONTACT	3031762	
BLU_18AW G	20103-1	PHOENIX CONTACT	3211799	○ ○ ○
BLU_18AW G	20104-1	PHOENIX CONTACT	3211799	○ ○ ○
BLU_18AW G	20107-1	PHOENIX CONTACT	3211799	○ ○ ○
BLU_18AW G	20108-1	PHOENIX CONTACT	3211799	○ ○ ○
BLU_18AW G	20109-1	PHOENIX CONTACT	3211799	○ ○ ○
BLK_18AW G	20111-1	PHOENIX CONTACT	3211799	○ ○ ○
BLK_18AW G	20113-1	PHOENIX CONTACT	3211799	○ ○ ○
	A2	PHOENIX CONTACT	3031762	
BLK_18AW G	40240-1	PHOENIX CONTACT	3211799	○ ○ ○
BLK_18AW G	40241-1	PHOENIX CONTACT	3211799	○ ○ ○
	A2	PHOENIX CONTACT	3031762	
	A1	PHOENIX CONTACT	3022218	

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REVISION HISTORY		ENGINEER	
REV	DATE	STATE	RELEASED
A	1/20/2025	Jeremy Keene	2/14/2025



DWG TITLE
TOPIDERM CONTRACT MANUFACTURING
TOWELETTE PACKETS
BOXING MACHINE
TERMINAL STRIP LAYOUT

ENGINEER J. KEENE	CHECKED BY J.C.K
JOB NO B16821	DRAWN BY J.K.
SCALE N.T.S.	DATE 10/2024

B16821- E732

ELECTRICAL SHEET
ASSEMBLY 732

733-01

733-02

733-03

733-04

733-05

733-06

733-07

733-08

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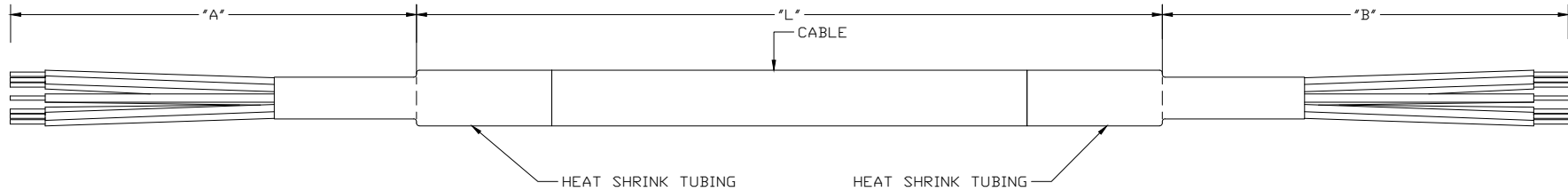
777-17

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111-04



CLL	MFG	CAT	CLB.BESCAT	BESC1	BESC2
CLL110-01A	LUTZE	A3081003	3-CONDUCTOR CABLE	10AWG, PVC JACKET, NUMBERED WIRES	MCP POWER CABLE
CLL111-03A	LUTZE	A3081203	3-CONDUCTOR CABLE	12AWG, PVC JACKET, NUMBERED WIRES	TRANSFORMER PRIMARY CABLE
CLL111-09A	LUTZE	A3081003	3-CONDUCTOR CABLE	10AWG, PVC JACKET, NUMBERED WIRES	TRANSFORMER SECONDARY CABLE
CLL111-17A	LUTZE	A3081403	3-CONDUCTOR CABLE	14AWG, PVC JACKET, NUMBERED WIRES	ROBOT POWER CABLE
CLL113-08A	AB	2090-CSVM10F-18A0A5	5 METER KINETIX S500 SERVO MOTOR	18AWG, TPE JACKET, SINGLE ENDED, COLORED WIRES	SERVO MOTOR CABLE
CLL115-03A	LUTZE	A3081403	3-CONDUCTOR CABLE	14AWG, PVC JACKET, NUMBERED WIRES	CONVENIENCE RECEPTACLE FEED CABLE
CLL120-07A	LUTZE	A3081818	18-CONDUCTOR CABLE	18AWG, PVC JACKET, NUMBERED WIRES	OPERATOR PANEL POWER & SIGNAL CABLE
CLL122-32A	BANNER	MDCC-415RA	CABLE	22AWG, PVC JACKET, SINGLE ENDED, COLORED WIRES	SYSTEM WORK LIGHT CABLE
CLL124-02A	LUTZE	10B357A	3-CONDUCTOR CABLE	18AWG, PVC JACKET, NUMBERED WIRES	LOAD CELL SIGNAL CONDITIONER POWER CABLE
CLL124-03A	LUMBERG	RKT 4-225/10M	4-PIN M12 (MICRO) FEMALE	22AWG, PUR JACKET, SINGLE ENDED, COLORED WIRES	WEIGH SCALE SIGNAL CONDITIONER OUTPUT CABLE
CLL204-29A	LUTZE	A3081918	18-CONDUCTOR CABLE	18AWG, PVC JACKET, NUMBERED WIRES	VELOPAK -55XI CABLE
CLL210-03A	MENCOM	MDCCP-12FP-SM-B	12-PIN M12 (MICRO) FEMALE	22AWG, PUR JACKET, SINGLE ENDED, COLORED WIRES	DIAPHRAGM CONTROL BOX CABLE
CLL215-03A	LUTZE	A3081803	3-CONDUCTOR CABLE	18AWG, PVC JACKET, NUMBERED	SAFETY RELIEF VALVE SOLENOID CABLE
CLL215-05A	LUMBERG	RKT 4-225/5M	4-PIN M12 (MICRO) FEMALE	22AWG, PUR JACKET, SINGLE ENDED,COLORED WIRES	SAFETY RELIEF VALVE SWITCH MONITOR CABLE
CLL215-10A	LUTZE	A3081803	3-CONDUCTOR CABLE	18AWG, PVC JACKET, NUMBERED	SAFETY RELIEF VALVE SOLENOID CABLE
CLL215-12A	LUMBERG	RKT 4-225/5M	4-PIN M12 (MICRO) FEMALE	22AWG, PUR JACKET, SINGLE ENDED, COLORED WIRES	SAFETY RELIEF VALVE SWITCH MONITOR CABLE
CLL220-03A	MENCOM	MDCCP-BFP-10M-8	8-PIN M12 (MICRO) FEMALE	22AWG, PUR JACKET, SINGLE ENDED, COLORED WIRES	LEFT DOOR SWITCH CABLE
CLL220-15A	MENCOM	MDCCP-BFP-10M-8	8-PIN M12 (MICRO) FEMALE	22AWG, PUR JACKET, SINGLE ENDED, COLORED WIRES	RIGHT DOOR SWITCH CABLE
CLL220-28A	MENCOM	MDCCP-BFP-10M-8	8-PIN M12 (MICRO) FEMALE	22AWG, PUR JACKET, SINGLE ENDED, COLORED WIRES	REAR DOOR SWITCH CABLE
CLL401-03A	LUTZE	A3081805	5-CONDUCTOR CABLE	18AWG, PVC JACKET, NUMBERED WIRES	REMOTE I/O POWER INTERFACE CABLE
CLL401-29A	LUTZE	A3081834	34-CONDUCTOR CABLE	18AWG, PVC JACKET, NUMBERED WIRES	REMOTE I/O INPUT INTERFACE CABLE
CLL402-29A	LUTZE	A3081834	34-CONDUCTOR CABLE	18AWG, PVC JACKET, NUMBERED WIRES	REMOTE I/O OUTPUT INTERFACE CABLE
CLL402-29B	BANNER	MDC1-530	CABLE	22AWG, PUR JACKET, SINGLE ENDED, COLORED WIRES	LIGHT STACK CABLE
CLL403-33A	LUMBERG	RST 4-RKT 4-225/4M	4-PIN M12 (MICRO) FEMALE TO 4-PIN M12 (MICRO) MALE	22AWG, PUR JACKET,DOUBLE ENDED	ID-LINK HUB ID-LINK CABLE
CLL403-39A	LUMBERG	RST 4-RKT 4-225/4M	4-PIN M12 (MICRO) FEMALE TO 4-PIN M12 (MICRO) MALE	22AWG, PUR JACKET,DOUBLE ENDED	ID-LINK CONFIGURABLE HUB ID-LINK CABLE
CLL403-45A	LUMBERG	RST 4-RKT 4-225/4M	4-PIN M12 (MICRO) FEMALE TO 4-PIN M12 (MICRO) MALE	22AWG, PUR JACKET,DOUBLE ENDED	ID-LINK HUB ID-LINK CABLE
CLL410-03A	LUMBERG	RKT 4-225/5M	4-PIN M12 (MICRO) FEMALE	22AWG, PUR JACKET, COLORED WIRES	VALVE MANIFOLD POWER CABLE
CLL412-03A	LUMBERG	RKT 4-225/5M	4-PIN M12 (MICRO) FEMALE	22AWG, PUR JACKET, COLORED WIRES	VACUUM MANIFOLD POWER CABLE
CLL413-13A	LUTZE	117104	10-CONDUCTOR CABLE	24AWG, PUR JACKET, COLORED WIRES	INKJET PRINTER I/O CABLE
CLL421-01A	LUMBERG	RKT 5L-949/5M	5-PIN M12 (MICRO) FEMALE	16AWG, PUR JACKET, COLORED WIRES	ID-LINK CONFIGURABLE HUB POWER CABLE
CLL421-13A	LUMBERG	RSMV 3-RKMV 3-224/1M	3-PIN MB (PICCO) FEMALE TO 3-PIN MB (PICCO) MALE	22AWG, PUR JACKET,DOUBLE ENDED	MAIN AIR SUPPLY EXTENSION CABLE
CLL421-16A	LUMBERG	RKT 4-225/10M	4-PIN M12 (MICRO) FEMALE	22AWG, PUR JACKET, SINGLE ENDED, COLORED WIRES	LASER SENSOR CABLE
CLL421-18A	LUMBERG	RKMV 3-224/10M	3-PIN MB (PICCO) FEMALE	22AWG, PUR JACKET, SINGLE ENDED, COLORED WIRES	CYLINDER SWITCH CABLE
CLL421-21A	LUMBERG	RKMV 3-224/10M	3-PIN MB (PICCO) FEMALE	22AWG, PUR JACKET, SINGLE ENDED, COLORED WIRES	PROXIMITY SWITCH CABLE
CLL421-23A	LUMBERG	RKMV 3-224/10M	3-PIN MB (PICCO) FEMALE	22AWG, PUR JACKET, SINGLE ENDED, COLORED WIRES	PROXIMITY SWITCH CABLE
CLL421-26A	LUMBERG	RKMV 3-224/10M	3-PIN MB (PICCO) FEMALE	22AWG, PUR JACKET, SINGLE ENDED, COLORED WIRES	PROXIMITY SWITCH CABLE
CLL421-28A	LUMBERG	RKMV 3-224/10M	3-PIN MB (PICCO) FEMALE	22AWG, PUR JACKET, SINGLE ENDED, COLORED WIRES	PROXIMITY SWITCH CABLE
CLL421-31A	LUMBERG	RKMV 3-224/10M	3-PIN MB (PICCO) FEMALE	22AWG, PUR JACKET,SINGLE ENDED	CYLINDER SWITCH CABLE
CLL421-33A	LUMBERG	RKMV 3-224/10M	3-PIN MB (PICCO) FEMALE	22AWG, PUR JACKET,SINGLE ENDED	PROXIMITY SWITCH CABLE
CLL421-36A	LUMBERG	RKMV 3-224/10M	3-PIN MB (PICCO) FEMALE	22AWG, PUR JACKET,SINGLE ENDED	CYLINDER SWITCH CABLE
CLL421-38A	LUMBERG	RKMV 3-224/10M	3-PIN MB (PICCO) FEMALE	22AWG, PUR JACKET,SINGLE ENDED	CYLINDER SWITCH CABLE
CLL421-41A	LUMBERG	RKMV 3-224/10M	3-PIN MB (PICCO) FEMALE	22AWG, PUR JACKET,SINGLE ENDED	CYLINDER SWITCH CABLE
CLL421-43A	LUMBERG	RKMV 3-224/10M	3-PIN MB (PICCO) FEMALE	22AWG, PUR JACKET,SINGLE ENDED	CYLINDER SWITCH CABLE
CLL421-46A	LUMBERG	RKMV 3-224/10M	3-PIN MB (PICCO) FEMALE	22AWG, PUR JACKET,SINGLE ENDED	CYLINDER SWITCH CABLE
CLL421-48A	LUMBERG	RKMV 3-224/10M	3-PIN MB (PICCO) FEMALE	22AWG, PUR JACKET,SINGLE ENDED	CYLINDER SWITCH CABLE
CLL422-06A	LUMBERG	RKMV 3-224/10M	3-PIN MB (PICCO) FEMALE	22AWG, PUR JACKET, SINGLE ENDED, COLORED WIRES	CYLINDER SWITCH CABLE
CLL422-08A	LUMBERG	RKMV 3-224/10M	3-PIN MB (PICCO) FEMALE	22AWG, PUR JACKET, SINGLE ENDED, COLORED WIRES	CYLINDER SWITCH CABLE
CLL422-11A	LUMBERG	RKMV 3-224/10M	3-PIN MB (PICCO) FEMALE	22AWG, PUR JACKET, SINGLE ENDED, COLORED WIRES	CYLINDER SWITCH CABLE
CLL422-13A	LUMBERG	RKMV 3-224/10M	3-PIN MB (PICCO) FEMALE	22AWG, PUR JACKET, SINGLE ENDED, COLORED WIRES	CYLINDER SWITCH CABLE
CLL422-16A	LUMBERG	RKMV 3-224/10M	3-PIN MB (PICCO) FEMALE	22AWG, PUR JACKET, SINGLE ENDED, COLORED WIRES	CYLINDER SWITCH CABLE
CLL422-18A	LUMBERG	RKMV 3-224/10M	3-PIN MB (PICCO) FEMALE	22AWG, PUR JACKET, SINGLE ENDED, COLORED WIRES	CYLINDER SWITCH CABLE
CLL422-21A	LUMBERG	RKMV 3-224/10M	3-PIN MB (PICCO) FEMALE	22AWG, PUR JACKET, SINGLE ENDED, COLORED WIRES	CYLINDER SWITCH CABLE
CLL422-23A	LUMBERG	RKMV 3-224/10M	3-PIN MB (PICCO) FEMALE	22AWG, PUR JACKET, SINGLE ENDED, COLORED WIRES	CYLINDER SWITCH CABLE
CLL422-26A	LUMBERG	RKMV 3-224/10M	3-PIN MB (PICCO) FEMALE	22AWG, PUR JACKET, SINGLE ENDED, COLORED WIRES	CYLINDER SWITCH CABLE
CLL422-28A	LUMBERG	RKMV 3-224/10M	3-PIN MB (PICCO) FEMALE	22AWG, PUR JACKET, SINGLE ENDED, COLORED WIRES	CYLINDER SWITCH CABLE
CLL422-31A	LUMBERG	RKMV 3-224/10M	3-PIN MB (PICCO) FEMALE	22AWG, PUR JACKET, SINGLE ENDED, COLORED WIRES	CYLINDER SWITCH CABLE
CLL422-33A	LUMBERG	RKMV 3-224/10M	3-PIN MB (PICCO) FEMALE	22AWG, PUR JACKET, SINGLE ENDED, COLORED WIRES	CYLINDER SWITCH CABLE
CLL422-36A	LUMBERG	RKMV 3-224/10M	3-PIN MB (PICCO) FEMALE	22AWG, PUR JACKET, SINGLE ENDED, COLORED WIRES	CYLINDER SWITCH CABLE
CLL422-38A	LUMBERG	RKMV 3-224/10M	3-PIN MB (PICCO) FEMALE	22AWG, PUR JACKET, SINGLE ENDED, COLORED WIRES	CYLINDER SWITCH CABLE
CLL422-41A	LUMBERG	RKMV 3-224/10M	3-PIN MB (PICCO) FEMALE	22AWG, PUR JACKET, SINGLE ENDED, COLORED WIRES	CYLINDER SWITCH CABLE
CLL422-43A	LUMBERG	RKMV 3-224/10M	3-PIN MB (PICCO) FEMALE	22AWG, PUR JACKET, SINGLE ENDED, COLORED WIRES	CYLINDER SWITCH CABLE
CLL422-46A	LUMBERG	RKMV 3-224/10M	3-PIN MB (PICCO) FEMALE	22AWG, PUR JACKET, SINGLE ENDED, COLORED WIRES	CYLINDER SWITCH CABLE
CLL422-48A	LUMBERG	RKMV 3-224/10M	3-PIN MB (PICCO) FEMALE	22AWG, PUR JACKET, SINGLE ENDED, COLORED WIRES	CYLINDER SWITCH CABLE
CLL423-06A	LUMBERG	RKMV 3-224/10M	3-PIN MB (PICCO) FEMALE	22AWG, PUR JACKET, SINGLE ENDED, COLORED WIRES	CYLINDER SWITCH CABLE
CLL423-08A	LUMBERG	RKMV 3-224/10M	3-PIN MB (PICCO) FEMALE	22AWG, PUR JACKET, SINGLE ENDED, COLORED WIRES	CYLINDER SWITCH CABLE
CLL423-11A	LUMBERG	RKMV 3-224/10M	3-PIN MB (PICCO) FEMALE	22AWG, PUR JACKET, SINGLE ENDED, COLORED WIRES	CYLINDER SWITCH CABLE
CLL423-13A	LUMBERG	RKMV 3-224/10M	3-PIN MB (PICCO) FEMALE	22AWG, PUR JACKET, SINGLE ENDED, COLORED WIRES	CYLINDER SWITCH CABLE
CLL423-16A	LUMBERG	RKMV 3-224/10M	3-PIN MB (PICCO) FEMALE	22AWG, PUR JACKET, SINGLE ENDED, COLORED WIRES	CYLINDER SWITCH CABLE
CLL423-18A	LUMBERG	RKMV 3-224/10M	3-PIN MB (PICCO) FEMALE	22AWG, PUR JACKET, SINGLE ENDED, COLORED WIRES	CYLINDER SWITCH CABLE
CLL423-21A	LUMBERG	RKMV 3-224/10M	3-PIN MB (PICCO) FEMALE	22AWG, PUR JACKET, SINGLE ENDED, COLORED WIRES	PHOTOEYE EMITTER CABLE
CLL423-23A	LUMBERG	RKMV 3-224/10M	3-PIN MB (PICCO) FEMALE	22AWG, PUR JACKET, SINGLE ENDED, COLORED WIRES	PHOTOEYE RECEIVER CABLE
CLL423-26A	LUMBERG	RKMV 3-224/10M	3-PIN MB (PICCO) FEMALE	22AWG, PUR JACKET,DOUBLE ENDED	PHOTOEYE EMITTER CABLE
CLL423-28A	LUMBERG	RKMV 3-224/10M	3-PIN MB (PICCO) FEMALE	22AWG, PUR JACKET,DOUBLE ENDED	PHOTOEYE RECEIVER CABLE
CLL423-31A	LUMBERG	RKMV 3-224/10M	3-PIN MB (PICCO) FEMALE	22AWG, PUR JACKET,DOUBLE ENDED	PHOTOEYE EMITTER CABLE
CLL423-33A	LUMBERG	RKMV 3-224/10M	3-PIN MB (PICCO) FEMALE	22AWG, PUR JACKET,DOUBLE ENDED	PHOTOEYE RECEIVER CABLE
CLL423-36A	LUMBERG	RKT 3-224/10M	3-PIN MB (PICCO) FEMALE	22AWG, PUR JACKET, SINGLE ENDED, COLORED WIRES	CYLINDER SWITCH CABLE
CLL424-01A	LUMBERG	RST 4-RKT 4-225/3M	4-PIN M12 (MICRO) FEMALE	16AWG, PUR JACKET, SINGLE ENDED, COLORED WIRES	ID-LINK MASTER 2 POWER CABLE
CLL424-16A	LUMBERG	RST 4-RKT 4-225/3M	4-PIN M12 (MICRO) FEMALE TO 4-PIN M12 (MICRO) MALE	22AWG, PUR JACKET, DOUBLE ENDED	GRIPPER ID-LINK CABLE
CLL424-21A	LUMBERG	RST 4-RKT 4-225/3M	4-PIN M12 (MICRO) FEMALE TO 4-PIN M12 (MICRO) MALE	22AWG, PUR JACKET, DOUBLE ENDED	GRIPPER ID-LINK CABLE
CLL424-26A	LUMBERG	RST 4-RKT 4-225/2M	4-PIN M12 (MICRO) FEMALE TO 4-PIN M12 (MICRO) MALE	22AWG, PUR JACKET, DOUBLE ENDED	LASER SENSOR CABLE
CLL424-29A	LUMBERG	RKT 4-225/10M	4-PIN M12 (MICRO) FEMALE	22AWG, PUR JACKET, SINGLE ENDED, COLORED WIRES	LASER SENSOR CABLE
CLL501-03A	LUMBERG	RKMV 3-224/10M	3-PIN MB (PICCO) FEMALE	22AWG, PUR JACKET, SINGLE ENDED, COLORED WIRES	DIAPHRAGM CONTROL BOX SERVO HOME SWITCH CABLE
CLL502-12A	LUTZE	117104	10-CONDUCTOR CABLE	24AWG, PUR JACKET, COLORED WIRES	BUETED CONVEYOR DRIVE I/O CABLE
CLL620-08A	LUMBERG	0985 806 500/8M	RJ-45 MALE TO RJ-45 MALE	24AWG, TPE JACKET, CAT5E	PLC ETHERNET CABLE
CLL620-08B	LUMBERG	0985 806 500/8M	RJ-45 MALE TO RJ-45 MALE	24AWG, TPE JACKET, CAT5E	OPERATOR PANEL ETHERNET CABLE
CLL620-09A	LUMBERG	0985 806 500/4M	RJ-45 MALE TO RJ-45 MALE	24AWG, TPE JACKET, CAT5E	REMOTE I/O ETHERNET CABLE
CLL620-09B	LUMBERG	0985 806 500/5M	RJ-45 MALE TO RJ-45 MALE	24AWG, TPE JACKET, CAT5E	ROBOT ETHERNET CABLE
CLL620-09C	LUMBERG	0985 806 103/4M	RJ-45 MALE TO 4-PIN M12 (MICRO) MALE	24AWG, TPE JACKET, CAT5E	VALVE MANIFOLD ETHERNET CABLE
CLL620-10A	LUMBERG	0985 806 500/8M	RJ-45 MALE TO RJ-45 MALE	24AWG, TPE JACKET, CAT5E	PROGRAMMING PORT ETHERNET CABLE
CLL620-10B	LUMBERG	0985 806 500/2M	RJ-45 MALE TO RJ-45 MALE	24AWG, TPE JACKET, CAT5E	SERVO DRIVE ETHERNET CABLE
CLL620-10C	AB	15B5J-MBCB,M-J-OM15	0.15 METER ETHERNET PATCH CABLE	24AWG, TPE JACKET, CAT5E	REMOTE GATEWAY ETHERNET CABLE
CLL620-17A	LUMBERG	0985 806 106/3M	4-PIN M12 (MICRO) MALE TO 4-PIN M12 (MICRO) MALE	24AWG, TPE JACKET, CAT5E	VACUUM MANIFOLD ETHERNET CABLE
CLL620-25A	LUMBERG	0985 806 106/4M	4-PIN M12 (MICRO) MALE TO 4-PIN M12 (MICRO) MALE	24AWG, TPE JACKET, CAT5E	ID-LINK MASTER ETHERNET CABLE

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7/7/2025 9:38:43 AM, Jared.keene, ***** AS BUILT *****

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REVISION HISTORY			
REV	DATE	STATE	ENGINEER
A	1/20/2025	RELEASED	Jerry Keene
			2/14/2025



WAUSEON MACHINE
995 Enterprise Ave. Wauseon OH 43567 • Ph (419) 337-0940 • www.wauseonmachine.com

TOPIDERM CONTRACT MANUFACTURING
TOWELETTE PACKETS
BOXING MACHINE
CABLE CONSTRUCTION & CHART

ENGINEER <i>J. KEENE</i>	CHECKED BY <i>J.C.K</i>
JOB NO <i>B16821</i>	DRAWN BY <i>J.K.</i>
SCALE <i>N.T.S.</i>	DATE <i>10/2024</i>
DWG NO	

B16821-E733

*ELECTRICAL
ASSEMBLY*

SHEET
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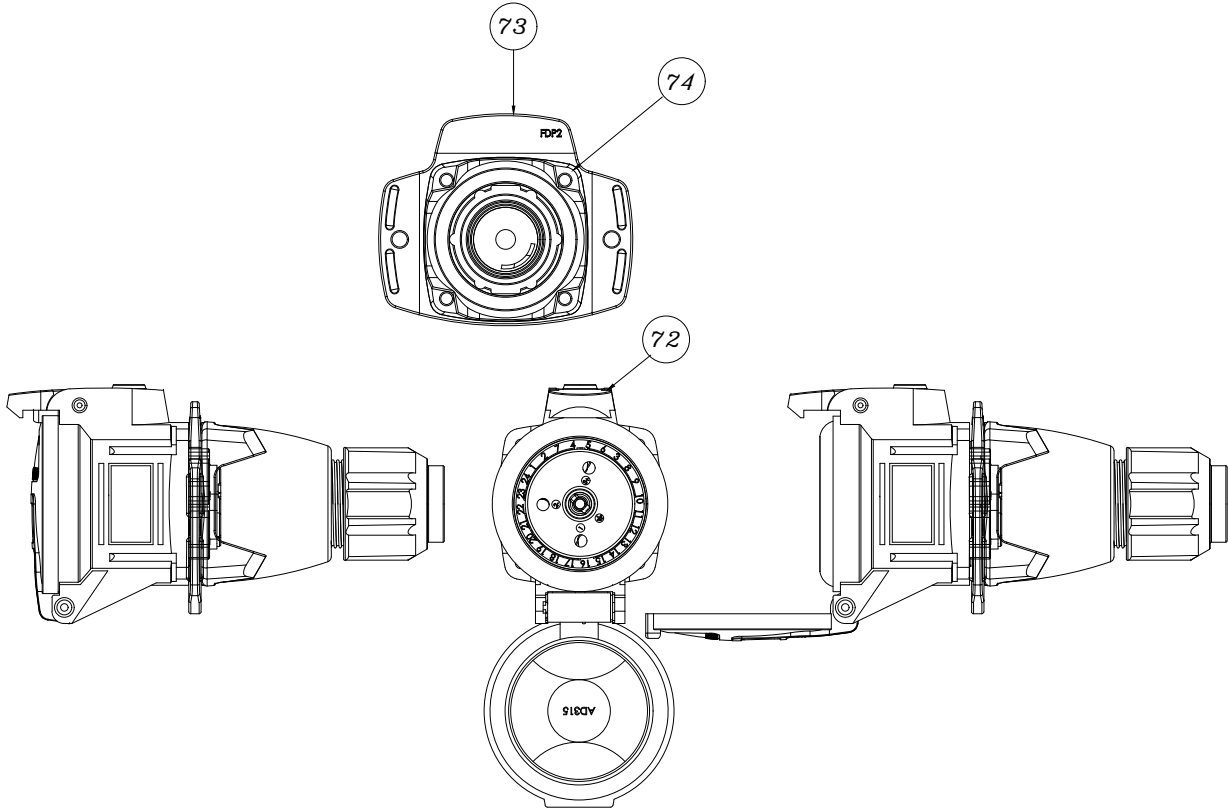
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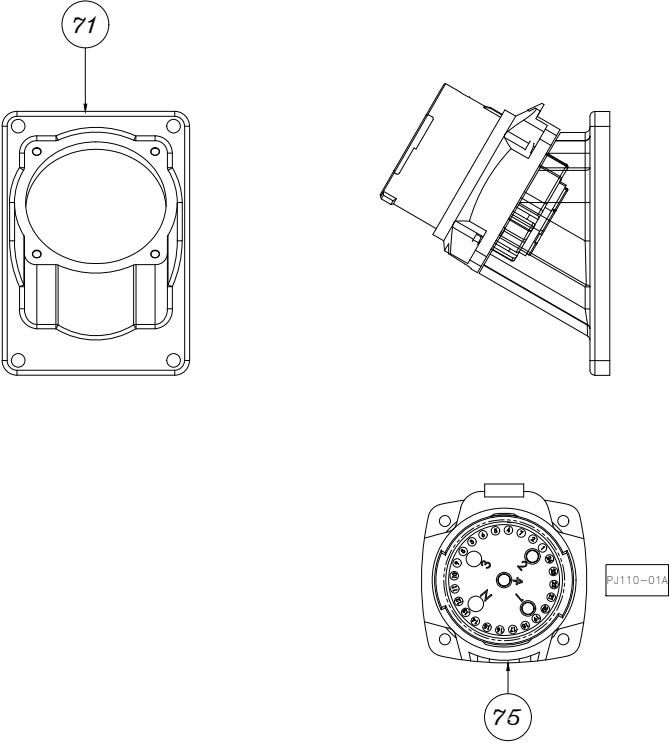
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MELTRIC MAIN POWER
PLUG ASSEMBLY



MELTRIC MAIN POWER
RECEPTACLE ASSEMBLY

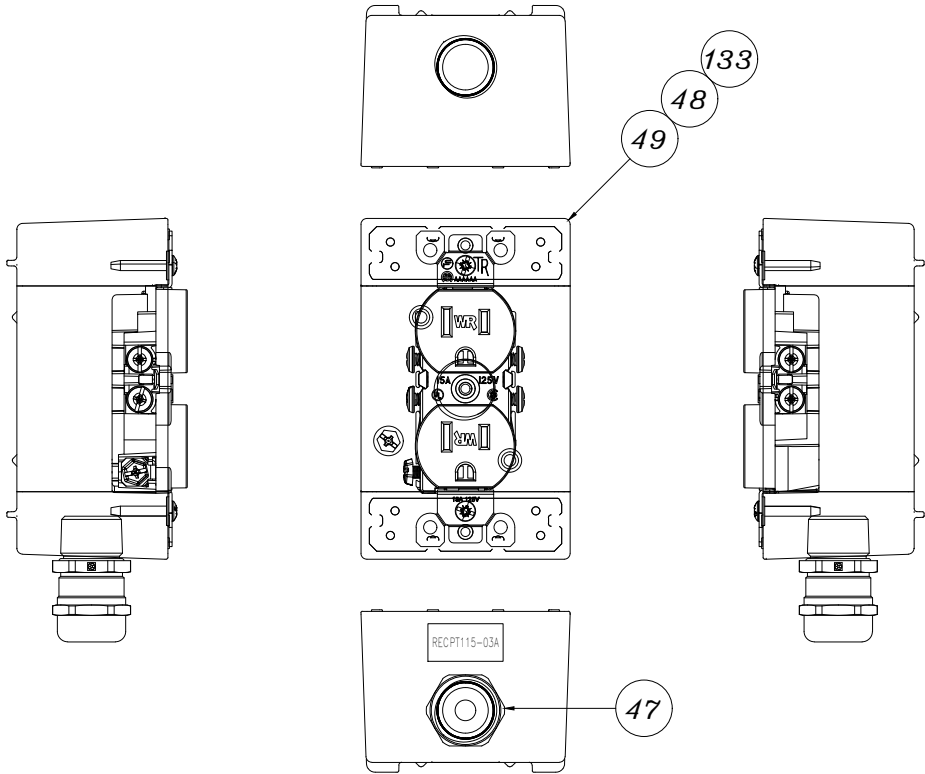
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REVISION HISTORY			
REV	DATE	ENGINEER	RELEASE DATE
A	1/20/2025	Jeremy Keene	2/14/2025

WAUSEON MACHINE
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DWG. TITLE			
TOPIDERM CONTRACT MANUFACTURING TOWELETTE PACKETS BOXING MACHINE MELTRIC PLUG ASSEMBLY			
ENGINEER	J. KEENE	CHECKED BY	J.C.K
JOB NO	B16821	DRAWN BY	J.K.
SCALE	N.T.S.	DATE	10/2024
DWG NO	B16821- E734		
ELECTRICAL ASSEMBLY	SHEET 734		

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CONVENIENCE RECEPTACLE ASSEMBLY

7/7/2025 9:38:50 AM, Jared.keene, ***** AS BUILT *****

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REV	DATE	STATE	RELEASE DATE
A	1/20/2025	RELEASED	2/14/2025
		ENGINEER	Jeremy Keene

**WAUSEON MACHINE**
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DWG. TITLE
**TOPIDERM CONTRACT MANUFACTURING
TOWELETTE PACKETS
BOXING MACHINE
CONVENIENCE RECEPTACLES**

ENGINEER J. KEENE	CHECKED BY J.C.K
JOB NO B16821	DRAWN BY J.K.
SCALE N.T.S.	DATE 10/2024

DWG NO
B16821- E735

ELECTRICAL ASSEMBLY
ASSEMBLY

SHEET
735

800~01	ITEM	QTY	SUB	CATALOG	MFG	DESCRIPTION	TAGS
800~02	1	1		140UT-D7D2-B20	AB	CURRENT LIMITING CIRCUIT BREAKER, 2 POLE, 40A, D-FRAME, 60...69kA, T/M - FIXED THERMAL / FIXED MAGNETIC, RATED CURRENT 2.0A	CB113-03A
800~03	2	1	*1	1492-H5	AB	2-POLE CIRCUIT BREAKER 2.0AMPS	FU121-05A
800~04	24		*1	MDL-2-R	BUSSMANN	1 POLE FUSE HOLDER FUSE HOLDER 10-57V AC/DC 15AMPS WITH LED BLOWN FUSE INDICATOR	
800~05	2	1	*1	1492-H5	AB	FUSE TIME DELAY 250V 2A	FU121-03A
800~06	23		*1	MDL-1-R	BUSSMANN	1 POLE FUSE HOLDER FUSE HOLDER 10-57V AC/DC 15AMPS WITH LED BLOWN FUSE INDICATOR	
800~07	3	1		1492-N37	AB	FUSE TIME DELAY 250V 1A	
800~08	4	6	*2	199-DR1	AB	END BARRIER HARDWARE END BARRIER FOR 1492-H4, 1492-H5, 1492-H6, 1492-H7 FUSE OR ISOLATION BLOCKS	
800~09	4	5		199-DR1	AB	ZINC/STEEL DIN RAIL EN 50022 (35mm x 7.5mm x 1m) 35mm x 7.5mm SLOTTED	
800~10	5	1	*1	2090-CSWM1DF-1 8AA05	AB	ZINC/STEEL DIN RAIL EN 50022 (35mm x 7.5mm x 1m) 35mm x 7.5mm SLOTTED	
800~11	38		*1	39912	ICOTEK	5 METER KINETIX 5500 SERVO MOTOR POWER/FEEDBACK 18AWG NON-FLEX SINGLE MOTOR	CBL113-08A
800~12	6	1		2198-H008-ERS2	AB	1 HOLE 16mm BLACK CABLE GROMMET ACCESSORY KT SMALL 16mm CLAMPING RANGE	
800~13	7	3	*1	5069-IB8S	AB	KINETIX 5500 SERVO DRIVE SINGLE AXIS 2.14HP IP20 ENCLOSURE 1.6kW	SRV0113-03A
800~14			*1	5069-RTB18-SPRING	AB	8-POINT DC INPUT MODULE 5000 SINK, SAFETY 24VDC, 75mA SPRING CLAMP TERMINALS	SPLC201-03A SPLC201-28A SPLC202-03A
800~15	8	1	*1	5069-L310ERMS2	AB	SPRING CAGE TERMINAL BLOCK 5000 ACCESSORY	
800~16			*1	5069-RTB64-SPRING	AB	COMPACTLOGIX CONTROLLER 5380 MOTION & SAFETY 1MB MEMORY, 0.5MB SAFETY MEMORY, 8 I/O, 4 AXIS, 24 ETHERNET/IP NODES SPRING CLAMP TERMINALS	PW120-03A
800~17	9	1	*1	5069-OBV8S	AB	SPRING CAGE TERMINAL BLOCK KIT 5380 ACCESSORY	
800~18			*1	5069-RTB18-SPRING	AB	8-POINT DC OUTPUT MODULE 5000 SINK OR SOURCE, SAFETY 24VDC, 75mA SPRING CLAMP TERMINALS	SPLC202-28A
800~19	10	2	*1	700-HPS2Z24	AB	SPRING CAGE TERMINAL BLOCK 5000 ACCESSORY	
800~20			*1	700-HN123	AB	HP TYPE PCB PIN STYLE RELAY WITH SOCKET 700-HN123 TYPE HP 24VDC 2 FORM C 8A, DPDT, 2 POLE, SLIM LINE, SAFETY RATED	CR202-36A CR202-38A
800~21						SCREW TERMINAL MINIATURE SOCKET SOCKET SOCKET PANEL OR DIN RAIL MOUNTING 8-PIN, FOR USE WITH 1-POLE 700-HP	

ITEM	QTY	SUB	CATALOG	MFG	DESCRIPTION	TAGS
11	1		800FM-F2MX01	AB	NON-ILLUMINATED MOMENTARY CONTACT 22.5mm FLUSH, IEC STYLE BLACK STYLE 1 NC METAL OPERATOR	PB201-08A
12	1		800FM-LF6MN3W X20	AB	ILLUMINATED PUSH BUTTON - MOMENTARY, IP66 22.5mm FLUSH, IEC STYLE BLUE 2ND 24V AC/DC METAL OPERATOR	PBLT201-09A
13	1		800FM-LG7MN3W X10	AB	ILLUMINATED PUSH BUTTON - MOMENTARY, IP66 22.5mm GUARDED, IEC STYLE CLEAR 1ND 24V AC/DC METAL OPERATOR	PBLT201-07A
14	1		800FM-MT44MX02 S	AB	NON-ILLUMINATED MAINTAINED PUSH-PULL/TWIST TO RELEASE 22.5mm MUSHROOM, IEC STYLE 40mm RED CAP 2 NC SELF-MONITORING METAL OPERATOR	PB201-03A
15	3		ECX1670-B	AUTOMATIONDIRE CT	LEGEND PLATE 22mm BLACK BLACK BUTTON SURROUND BLANK	PB201-08A PBLT201-07A PBLT201-09A
16	1	*1	MQDC-415RA	BANNER	CABLE 5 METER, 4-PIN 22AWG M12 (MICRO) FEMALE CONNECTION, RIGHT ANGLE SINGLE ENDED	CBL122-32A
179		*1	41305	ICOTEK	1 HOLE 5mm BLACK CABLE GROMMET ACCESSORY KT SMALL 5-6mm CLAMPING RANGE	
17	1		BB024SSL6LT14	BURNDY	6 INCH BRAID COPPER 6AWG 6.5 INCH OAL, 1/4" STUD HOLE STAINLESS STEEL CONNECTORS	BRAID
18	1		K2A25U	BURNDY	2-CONDUCTOR GROUND LUG ALUMINUM 14-1/0 AWG	LUG
19	1	*1	CHCC2DIU	BUSSMANN	DOUBLE POLE FUSE BLOCK IP20 FINGER SAFE, ILLUMINATED 600V/30A 200kA RMS USE WITH LP-CC, FNQ-R AND KTK-R FUSE TYPES	FU111-17A
22		*2	LP-CC-6	BUSSMANN	FUSE CLASS CC 600V 6A	
19	1	*1	CHCC2DIU	BUSSMANN	DOUBLE POLE FUSE BLOCK IP20 FINGER SAFE, ILLUMINATED 600V/30A 200kA RMS USE WITH LP-CC, FNQ-R AND KTK-R FUSE TYPES	FU111-03A
20		*2	FNQ-R-20	BUSSMANN	FUSE CLASS CC 600V 20A	
19	1	*1	CHCC2DIU	BUSSMANN	DOUBLE POLE FUSE BLOCK IP20 FINGER SAFE, ILLUMINATED 600V/30A 200kA RMS USE WITH LP-CC, FNQ-R AND KTK-R FUSE TYPES	FU110-10A
21		*2	LP-CC-10	BUSSMANN	FUSE CLASS CC 600V 10A	
25	1		E22VA8	EATON	LEGEND - Ø22 - EMERGENCY STOP LEGEND YELLOW WITH RED LETTERING ROUND 70mm FOR 22mm BUTTON	PB201-03A
26	1		FLEXY20500_00M A	EWON	MODULAR GATEWAY ETHERNET TO SERIAL EXPANDABLE MODEL 02801	ES121-05A

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REV	DATE	STATE	ENGINEER	RELEASE DATE
A	1/20/2025	RELEASED	Jeremy Keene	2/14/2025



DWG TITLE
TOPIDERM CONTRACT MANUFACTURING
TOWELETTE PACKETS
BOXING MACHINE
BILL OF MATERIAL

ENGINEER
J. KEENE

CHECKED BY
J.C.K

JOB NO
B16821

DRAWN BY
J.K.

SCALE
N.T.S.

DATE
10/2024

DWG NO

B16821- E800

ELECTRICAL
BILL OF MATERIAL

SHEET
800

ITEM	QTY	SUB	CATALOG	MFG	DESCRIPTION	TAGS
27	1		R-301B PLUS MATE	FANUC	MATE CABINET ROBOT CONTROLLER 6-AXIS SERV'D AMPLIFIER 2 SLOT BACKPLANE	RB111-17A
32	3		41306	ICOTEK	1 HOLE 6mm BLACK CABLE GROMMET ACCESSORY KT SMALL 6-7mm CLAMPING RANGE	
33	1		S15C-I-KQ	BANNER	ANALOG TO IO-LINK CONVERTER M12 MALE TO M12 FEMALE 4-PIN 4-20mA CURRENT INPUT	FW424-41A
34	1		41308	ICOTEK	1 HOLE 8mm BLACK CABLE GROMMET ACCESSORY KT SMALL 8-9mm CLAMPING RANGE	
39	2		41319	ICOTEK	1 HOLE 19mm BLACK CABLE GROMMET ACCESSORY KT LARGE 19-20mm CLAMPING RANGE	
40	18		41351	ICOTEK	BLANK BLACK CABLE GROMMET ACCESSORY KT SMALL	
41	1		42204	ICOTEK	4-POSITION CABLE ENTRY GLAND MULTI-CONFIGURATION PANEL MOUNT USES 4xKT SMALL GROMMETS	
42	1		42225	ICOTEK	14-POSITION CABLE ENTRY GLAND MULTI-CONFIGURATION PANEL MOUNT USES 12xKT SMALL GROMMETS AND 2xKT LARGE GROMMETS	
43	1		42232	ICOTEK	20-POSITION CABLE ENTRY GLAND MULTI-CONFIGURATION PANEL MOUNT USES 20xKT SMALL GROMMETS	
44	1		42241	ICOTEK	10-POSITION CABLE ENTRY GLAND MULTI-CONFIGURATION PANEL MOUNT USES 10xKT SMALL GROMMETS	
45	1		42244	ICOTEK	4-POSITION CABLE ENTRY GLAND MULTI-CONFIGURATION PANEL MOUNT USES 2xKT SMALL GROMMETS AND 2xKT LARGE GROMMETS	
46	1		DMA2	INTERFACE	SIGNAL CONDITIONER DMA2 SERIES 10-28VDC, SELECTABLE +/-10V, +/-5V OR 4-20mA OUTPUT DIN RAIL MOUNT	SG124-02A
47	1		53112024	LAPP	SKINTOP CABLE GLAND 1/2" NPT THREAD NICKLE PLATED BRASS 7-12.5mm CLAMPING RANGE	
49	1	*1	W5320-T0G	LEVITON	STRAIGHT BLADE RECEPTACLE DUPLEX GRAY NEMA 5-15R RESIDENTAL GRADE, TAMPER RESISTANT	RECPT115-03A
48		*1	1GM53-GY	LEVITON	WEATHERPROOF BOX SINGLE GANG GRAY 3x1/2" OUTLETS COMMERCIAL GRADE	
133		*1	CKPM	T&B	RECEPTACLE COVER, DUPLEX OPENING, GRAY SINGLE GANG WEATHERPROOF	
50	1		0960 IOL 380-021	LUMBERG	IO-LINK INPUT/OUTPUT MODULE VERSION 1.1 24 DC 8xM12 PORTS DUAL INPUT/OUTPUT, PNP IP67	IOL421-01A
51	2		0960 IOL 381-001	LUMBERG	IO-LINK INPUT MODULE VERSION 1.1 24 DC 8xM12 PORTS, DUAL INPUT, PNP IP67	IOL422-01A IOL423-01A

ITEM	QTY	SUB	CATALOG	MFG	DESCRIPTION	TAGS
52	1		0980 XSL 3912-121-007D-0 0F	LUMBERG	MULTIPROTOCOL IO-LINK MASTER VERSION 1.1.3 24 DC 8xM12 PORTS, DUAL INPUT/OUTPUT, PNP IP67	IOL424-01A
53	1	*1	0985 806 103/4M	LUMBERG	RJ-45 MALE TO 4-PIN M12 (MICRO) MALE HIGH FLEX ETHERNET STRAIGHT 24AWG 4 METER DOUBLE ENDED	CBL620-09C
32		*1	41306	ICOTEK	1 HOLE 6mm BLACK CABLE GROMMET ACCESSORY KT SMALL 6-7mm CLAMPING RANGE	
54	1	*1	0985 806 500/4M	LUMBERG	RJ-45 MALE TO RJ-45 MALE HIGH FLEX ETHERNET STRAIGHT 24AWG 4 METER DOUBLE ENDED	CBL620-09A
32		*1	41306	ICOTEK	1 HOLE 6mm BLACK CABLE GROMMET ACCESSORY KT SMALL 6-7mm CLAMPING RANGE	
55	1	*1	0985 806 500/5M	LUMBERG	RJ-45 MALE TO RJ-45 MALE HIGH FLEX ETHERNET STRAIGHT 24AWG 5 METER DOUBLE ENDED	CBL620-09B
32		*1	41306	ICOTEK	1 HOLE 6mm BLACK CABLE GROMMET ACCESSORY KT SMALL 6-7mm CLAMPING RANGE	
56	2	*1	0985 806 500/8M	LUMBERG	RJ-45 MALE TO RJ-45 MALE HIGH FLEX ETHERNET STRAIGHT 24AWG 8 METER DOUBLE ENDED	CBL620-08B CBL620-10A
32		*1	41306	ICOTEK	1 HOLE 6mm BLACK CABLE GROMMET ACCESSORY KT SMALL 6-7mm CLAMPING RANGE	
57	4		RKF 4-1/2-14/6F	LUMBERG	RECEPTACLE M12 FEMALE 4-PIN 1/2-14 NPT FRONT MOUNTING 22AWG, 6 FT LEADS	PJ403-28A PJ403-34A PJ403-40A PJ403-46A
58	1	*1	RKT 4-225/10M	LUMBERG		CBL124-03A
31		*1	41304	ICOTEK	1 HOLE 4mm BLACK CABLE GROMMET ACCESSORY KT SMALL 4-5mm CLAMPING RANGE	
58	2	*1	RKT 4-225/10M	LUMBERG	4-PIN M12 (MICRO) FEMALE STRAIGHT PRE-MOLDED CABLE 22AWG 10 METER SINGLE ENDED	CBL421-16A CBL424-28A
178		*1	RSC 4/7	LUMBERG	4-PIN M12 (MICRO) MALE SINGLE CABLE 3-6.5mm DIAMETER FIELD WIREABLE CONNECTOR	
59	2		RKT 4-225/5M	LUMBERG	4-PIN M12 (MICRO) FEMALE STRAIGHT PRE-MOLDED CABLE 22AWG 5 METER SINGLE ENDED	CBL215-12A CBL412-03A
59	2	*1	RKT 4-225/5M	LUMBERG	4-PIN M12 (MICRO) FEMALE STRAIGHT PRE-MOLDED CABLE 22AWG 5 METER SINGLE ENDED	CBL215-05A CBL410-03A
28		*1	39904	ICOTEK	2 HOLE 5mm BLACK CABLE GROMMET ACCESSORY KT SMALL 5mm CLAMPING RANGE	
60	1		RKT 5L-949/5M	LUMBERG	5-PIN M12 (MICRO) FEMALE STRAIGHT PRE-MOLDED CABLE 16AWG 5 METER SINGLE ENDED, L-CODE PUR JACKET	CBL424-01A

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REVISION HISTORY			
REV	DATE	ENGINEER	RELEASE DATE
A	1/20/2025	Jeremy Keene	2/14/2025



DWG TITLE
TOPIDERM CONTRACT MANUFACTURING
TOWELETTE PACKETS
BOXING MACHINE
BILL OF MATERIAL

ENGINEER
J. KEENE

CHECKED BY
J.C.K

JOB NO
B16821

DRAWN BY
J.K.

SCALE
N.T.S.

DATE
10/2024

B16821- E801

ELECTRICAL SHEET
BILL OF MATERIAL 801

802~01	ITEM	QTY	SUB	CATALOG	MFG	DESCRIPTION	TAGS
802~02	60	1	✖1	RKT 5L-949/5M	LUMBERG	5-PIN M12 (MICRO) FEMALE STRAIGHT PRE-MOLDED CABLE 16AWG 5 METER SINGLE ENDED, L-CODE PUR JACKET	CBL421-01A
802~03	30		✖1	39918	ICOTEK	2 HOLE 8mm BLACK CABLE GROMMET ACCESSORY KT SMALL 8mm CLAMPING RANGE	
802~04	62	1	✖15	108357A	LUTZE	3-CONDUCTOR CABLE MULTI-CONDUCTOR, PVC JACKET 18AWG UNSHIELDED	CBL124-02A
802~05	29		✖1	39905	ICOTEK	2 HOLE 6mm BLACK CABLE GROMMET ACCESSORY KT SMALL 6mm CLAMPING RANGE	
802~06	63	1	✖15	117104	LUTZE	10-CONDUCTOR CABLE MULTI-CONDUCTOR, PUR JACKET 24AWG SHIELDED C-TRACK	CBL502-12A
802~07	63	1	✖1	117104	LUTZE	10-CONDUCTOR CABLE MULTI-CONDUCTOR, PUR JACKET 24AWG SHIELDED C-TRACK	CBL413-13A
802~08	29		✖1	39905	ICOTEK	2 HOLE 6mm BLACK CABLE GROMMET ACCESSORY KT SMALL 6mm CLAMPING RANGE	
802~09	64	2	✖15	A3081003	LUTZE	3-CONDUCTOR CABLE MULTI-CONDUCTOR, PVC JACKET 10AWG UNSHIELDED	CBL110-01A CBL111-09A
802~11	36		✖1	41313	ICOTEK	1 HOLE 13mm BLACK CABLE GROMMET ACCESSORY KT SMALL 13-14mm CLAMPING RANGE	
802~12	65	1	✖15	A3081203	LUTZE	3-CONDUCTOR CABLE MULTI-CONDUCTOR, PVC JACKET 12AWG UNSHIELDED	CBL111-03A
802~13	222		✖1	41310	ICOTEK	1 HOLE 10mm BLACK CABLE GROMMET ACCESSORY KT SMALL 10-11mm CLAMPING RANGE	
802~14	66	2	✖15	A3081403	LUTZE	3-CONDUCTOR CABLE MULTI-CONDUCTOR, PVC JACKET 14AWG UNSHIELDED	CBL111-17A CBL115-03A
802~15	35		✖1	41309	ICOTEK	1 HOLE 9mm BLACK CABLE GROMMET ACCESSORY KT SMALL 9-10mm CLAMPING RANGE	
802~16	67	1	✖15	A3081803	LUTZE	3-CONDUCTOR CABLE MULTI-CONDUCTOR, PVC JACKET 18AWG UNSHIELDED PVC/NYLON THHN-THWN	CBL215-10A
802~17	67	1	✖15	A3081803	LUTZE	3-CONDUCTOR CABLE MULTI-CONDUCTOR, PVC JACKET 18AWG UNSHIELDED PVC/NYLON THHN-THWN	CBL215-03A
802~18	30		✖1	39918	ICOTEK	2 HOLE 8mm BLACK CABLE GROMMET ACCESSORY KT SMALL 8mm CLAMPING RANGE	
802~19	68	1	✖15	A3081805	LUTZE	5-CONDUCTOR CABLE MULTI-CONDUCTOR, PVC JACKET 18AWG UNSHIELDED	CBL401-03A

802~21

802~22

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ITEM	QTY	SUB	CATALOG	MFG	DESCRIPTION	TAGS
34		✖1	41308	ICOTEK	1 HOLE 8mm BLACK CABLE GROMMET ACCESSORY KT SMALL 8-9mm CLAMPING RANGE	
69	1	✖25	A3081818	LUTZE	18-CONDUCTOR CABLE MULTI-CONDUCTOR, PVC JACKET 18AWG UNSHIELDED	CBL204-28A
225		✖1	41315	ICOTEK	1 HOLE 15mm BLACK CABLE GROMMET ACCESSORY KT SMALL 15-16mm CLAMPING RANGE	
69	1	✖25	A3081818	LUTZE	18-CONDUCTOR CABLE MULTI-CONDUCTOR, PVC JACKET 18AWG UNSHIELDED	CBL120-07A
37		✖1	41314	ICOTEK	1 HOLE 14mm BLACK CABLE GROMMET ACCESSORY KT SMALL 14-15mm CLAMPING RANGE	
70	2	✖15	A3081834	LUTZE	34-CONDUCTOR CABLE MULTI-CONDUCTOR, PVC JACKET 18AWG UNSHIELDED	CBL401-28A CBL402-28A
39		✖1	41319	ICOTEK	1 HOLE 19mm BLACK CABLE GROMMET ACCESSORY KT LARGE 19-20mm CLAMPING RANGE	
75	1	✖1	63-38072	MELTRIC	INLET MALE 3-PIN 2-POLE W/ GROUND 250VAC, 30A	PJ110-01A
74		✖1	63-34072	MELTRIC	RECEPTACLE FEMALE 3-PIN 2-POLE W/ GROUND 250VAC, 30A	
72		✖1	512P0D21	MELTRIC	ACCESSORY HANDLE CABLE GLAND SIZE 2 .200-820 CABLE RANGE	
73		✖1	61-3A346	MELTRIC	DRAW PLATE SIZE 2	
71		✖1	512M3	MELTRIC	30° POLY ANGLE PANEL MOUNT	
76	1	✖1	MDCP-8FP-10M-B	MENCOM		CBL220-28A
32		✖1	41306	ICOTEK	1 HOLE 6mm BLACK CABLE GROMMET ACCESSORY KT SMALL 6-7mm CLAMPING RANGE	
76	1		MDCP-8FP-10M-B	MENCOM	8-PIN M12 (MICRO) FEMALE STRAIGHT PRE-MOLDED CABLE, PVC JACKET 22AWG 10 METER SINGLE ENDED SHIELDED	CBL220-15A
76	1	✖1	MDCP-8FP-10M-B	MENCOM	8-PIN M12 (MICRO) FEMALE STRAIGHT PRE-MOLDED CABLE, PVC JACKET 22AWG 10 METER SINGLE ENDED SHIELDED	CBL220-03A
29		✖1	39905	ICOTEK	2 HOLE 6mm BLACK CABLE GROMMET ACCESSORY KT SMALL 6mm CLAMPING RANGE	
77	1	✖1	MDCPM-12FP-5M-B	MENCOM	12-PIN M12 (MICRO) FEMALE STRAIGHT PRE-MOLDED CABLE, PUR JACKET 24AWG 5 METER SINGLE ENDED	CBL210-03A
32		✖1	41306	ICOTEK	1 HOLE 6mm BLACK CABLE GROMMET ACCESSORY KT SMALL 6-7mm CLAMPING RANGE	

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REVISION HISTORY			
REV	DATE	ENGINEER	RELEASE DATE
A	1/20/2025	Jeremy Keene	2/14/2025



DWG TITLE	
TOPIDERM CONTRACT MANUFACTURING TOWELETTE PACKETS BOXING MACHINE BILL OF MATERIAL	
ENGINEER J. KEENE	CHECKED BY J.C.K
JOB NO B16821	DRAWN BY J.K.
SCALE N.T.S.	DATE 10/2024
DWG NO B16821- E802	
ELECTRICAL BILL OF MATERIAL	SHEET 802

803-01	ITEM	QTY	SUB	CATALOG	MFG	DESCRIPTION	TAGS
803-02	78	1	*2	FSPDB2A	MERSEN	POWER DISTRIBUTION BLOCK IP20 FINGER SAFE, ALUMINUM 175A, 100kA LINE 2/0-#14AWG LOAD #2-#14AWG x 4	PDB110-05A
803-03	79	1		B1E1C16	NDARK	1-POLE C CURVE CIRCUIT BREAKER MINIATURE 277VAC, 16 AMPS, UL1077, 5kA PART NUMBER 1000442	CB120-07A
803-04	80	1		B1E1C2	NDARK	1-POLE C CURVE CIRCUIT BREAKER MINIATURE 277VAC, 2 AMPS, UL1077, 5kA PART NUMBER 1000443	CB120-17A
803-05	81	1		B1E1C20	NDARK	1-POLE C CURVE CIRCUIT BREAKER MINIATURE 277VAC, 20 AMPS, UL1077, 5kA	CB110-16A
803-06	82	1		B1E1C5	NDARK	1-POLE C CURVE CIRCUIT BREAKER MINIATURE 277VAC, 5 AMPS, UL1077, 5kA PART NUMBER 1000446	CB120-03A
803-07	83	1		B1E1C8	NDARK	1-POLE C CURVE CIRCUIT BREAKER MINIATURE 277VAC, 8 AMPS, UL1077, 5kA PART NUMBER 1000448	CB120-14A
803-08	84	1		B1N01C15	NDARK	1-POLE C CURVE CIRCUIT BREAKER MINIATURE 120/240VAC, 125VDC, 15 AMPS, UL489, 10kA	CB115-03A
803-09	88	1	*1	MIN30T3L	NDARK	MOLDED CASE CIRCUIT BREAKER MIN 30 AMPS PART NUMBER 1100043 LINE/LOAD LUG CONNECTIONS	CB110-03A
803-10	86		*1	IHM1	NDARK	ROTARY DISCONNECT OPERATING MECHANISM ACCESSORY NFPA 79 COMPLIANT FOR USE WITH M1	
803-11	85		*1	ES32A	NDARK	ROTARY DISCONNECT SHAFT ACCESSORY 10x10mm, 320mm LENGTH NFPA 79 COMPLIANT	
803-12	87		*1	IDH2	NDARK	INTERNAL OPERATING HANDLE ACCESSORY NFPA 79 COMPLIANT FOR USE WITH M1/M2	
803-13	89		*1	NEH2B2	NDARK	ROTARY DISCONNECT HANDLE ACCESSORY NEMA 4, 4X FOR USE WITH M1/M2	
803-14	90	2		4-14-12112	NSI	10 POSITION GROUND BAR, 4-14 AWG ALUMINUM 4-14 AWG	GBAR
803-15	91	4	*1	G7SA-5A1B-24V DC	OMRON	FORCE GUIDED RELAY 5 N.O., 1 N.C. 24VDC	CR202-28A CR202-30A CR202-32A CR202-34A
803-16			*1	P7SA-14F-ND	OMRON	RELAY BASE PLUG IN 24VDC	
803-17	92	1		BMUD200-A	ORIENTAL MOTOR	BRUSHLESS DC MOTOR CONTROLLER 1-PHASE 100-120VAC INPUT IP20 0.2kW	DR502-03A
803-18	93	3	*2	F1.5X4LG6	PANDUIT	NARROW FINGER, SLOTTED WIRING DUCT 1.75 x 4.12 SLOTTED LIGHT GRAY LEAD-FREE PVC, STANDARD MOUNTING HOLES	
803-19			*2	C1.5LG6	PANDUIT	COVER 1.75 X 72 SOLID LIGHT GRAY	
803-20	94	2	*2	F1X4LG6	PANDUIT	NARROW FINGER, SLOTTED WIRING DUCT 1.25 x 4.08 SLOTTED LIGHT GRAY LEAD-FREE PVC, STANDARD MOUNTING HOLES	
803-21			*2	C1LG6	PANDUIT	COVER 1.25 X 72 SOLID LIGHT GRAY	

ITEM	QTY	SUB	CATALOG	MFG	DESCRIPTION	TAGS
94	7	*1	F1X4LG6	PANDUIT	NARROW FINGER, SLOTTED WIRING DUCT 1.25 x 4.08 SLOTTED LIGHT GRAY LEAD-FREE PVC, STANDARD MOUNTING HOLES	
		*1	C1LG6	PANDUIT	COVER 1.25 X 72 SOLID LIGHT GRAY	
95	1	*3	F2X4LG6	PANDUIT	NARROW FINGER, SLOTTED WIRING DUCT 2.25 x 4.09 SLOTTED LIGHT GRAY LEAD-FREE PVC, STANDARD MOUNTING HOLES	
		*3	C2LG6	PANDUIT	COVER 2.25 X 72 SOLID LIGHT GRAY	
95	1	*2	F2X4LG6	PANDUIT	NARROW FINGER, SLOTTED WIRING DUCT 2.25 x 4.09 SLOTTED LIGHT GRAY LEAD-FREE PVC, STANDARD MOUNTING HOLES	
		*2	C2LG6	PANDUIT	COVER 2.25 X 72 SOLID LIGHT GRAY	
96	1	*2	F3X4LG6	PANDUIT	NARROW FINGER, SLOTTED WIRING DUCT 3.25 x 4.11 SLOTTED LIGHT GRAY LEAD-FREE PVC, STANDARD MOUNTING HOLES	
		*2	C3LG6	PANDUIT	COVER 3.25 X 72 SOLID LIGHT GRAY	
97	5		1047454	PHOENIX CONTACT	DISTRIBUTION TERMINAL BLOCK - PTFIX 4/18X1.5-NS35 GROUPED 41A LINE, 17.5A LOAD GRAY LINE 0.2-6MM^2, 24-10 AWG, LOAD 0.14-2.5MM^2, 26-14 AWG PUSH-IN	TS_CL2A TS_CL2B TS_CL2C TS_CL2D TS_SFP
98	1		1085243	PHOENIX CONTACT	8-PORT UNMANAGED ETHERNET SWITCH 18-30 VDC IP30 DIN RAIL MOUNT 10/100/1000	ES121-03A
99	4		2903370	PHOENIX CONTACT	TERMINAL RELAY MODULE FORM C 24 DC 1NO, 1NC	CR402-38A CR402-39A CR402-42A CR402-43A
100	1		2967060	PHOENIX CONTACT	TERMINAL RELAY MODULE 2xFORM C 24 DC 2NO, 2NC	CR120-47A
101	25		3022218	PHOENIX CONTACT	END BRACKET - CLIPFIX 35 ACCESSORY END BRACKET SNAP-ON END BRACKET, FOR NS35/7.5 OR NS35/15 DIN RAIL 9.5MM WIDTH	TS_DC TS_DC+ TS_DC- TS_ID TS_L TS_N TS_SF TS1 TSG
102	23		3031762	PHOENIX CONTACT	END COVER - D-ST5-2 2,5 ACCESSORY ACCESSORY GRAY, 51MM, 2.2MM, 43MM CLIPLINE - END COVER	TS_DC TS_ID TS_SF TS1 TSG
103	6		3036916	PHOENIX CONTACT	10 POSITION TERMINAL JUMPER HARDWARE JUMPER BLUE, 5.2MM SPACING PUSH-IN	TS_SF TS1
104	111		3211799	PHOENIX CONTACT	SINGLE LEVEL TERMINAL BLOCK - PTS 2,5 FEED THROUGH 24AMPS GRAY, 0.14-4MM^2, 26-12 AWG CLIPLINE - MODULAR PUSH-IN TERMINAL BLOCK	TS_ID TS_SF TS1

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REVISION HISTORY			
REV	DATE	ENGINEER	RELEASE DATE
A	1/20/2025	Jeremy Keene	2/14/2025



DWG TITLE TOPIDERM CONTRACT MANUFACTURING TOWELETTE PACKETS BOXING MACHINE BILL OF MATERIAL	
ENGINEER J. KEENE	CHECKED BY J.C.K
JOB NO B16821	DRAWN BY J.K.
SCALE N.T.S.	DATE 10/2024
DWG NO B16821-E803	
ELECTRICAL BILL OF MATERIAL	SHEET 803

804~01	ITEM	QTY	SUB	CATALOG	MFG	DESCRIPTION	TAGS
804~02	105	6		3211867	PHOENIX CONTACT	SINGLE LEVEL GROUND TERMINAL BLOCK - PTS 2,5 FEED THROUGH GREEN/YELLOW, 0.14-4MM^2, 26-12 AWG CLIPLINE - MODULAR PUSH-IN TERMINAL BLOCK	TSG
804~03	106	25		3211896	PHOENIX CONTACT	MULTIPLE POSITION TERMINAL BLOCK - PTS 2,5-TWIN MULTI-LEVEL 24AMPS GRAY, 0.14-4MM^2, 26-12 AWG CLIPLINE - MODULAR PUSH-IN TERMINAL BLOCK	TS_DC TS_ID TS_SF
804~04	107	1		PISA11.CLASS2	PULS	DC PROTECTION POWER MODULE 24VDC 4-CHANNEL 4 X 100VA LIMITED NEC CLASS 2	PWS120-28A
804~05	108	1		QS20.241	PULS	1-PHASE POWER SUPPLY 24VDC IP20 100-240VAC/110-150VDC INPUT, 24VDC OUTPUT, 480W	PWS110-12A
804~06	109	1		1611.000	RITTAL	KX SERIES BUS ENCLOSURE SMALL ENCLOSURE NEMA 1, 12 15.7x11.9x6.1 INCHES, CARBON STEEL DDOR INCLUDES VIEWING WINDOW, RAL 7035	
804~07	110	1		2309100	RITTAL	MOUNTING CLAW ACCESSORY 20 PIECES/PACKAGE	
804~08	111	1		3240300	RITTAL	OUTLET FILTER SIDE MOUNT SNAP IN LIGHT GRAY IP54	
804~09	112	1		3241724	RITTAL	FILTER FAN SIDE MOUNT 0.026HP 24VDC LIGHT GRAY	MOT120-17A
804~10	113	1		6320.350	RITTAL	AX COMPACT CONTROL CABINET COMPACT CABINET W/ HANDLE STRIPS NEMA 1, 12 15x15x8.27 INCHES, CARBON STEEL, ALUMINUM FRONT PLATE 2 HANDLE STRIPS, REAR LOCK, REAR SERVICE ACCESS	
804~11	114	1		8017583	RITTAL	WM SERIES WALL-MOUNTED ENCLOSURE WALL-MOUNT ENCLOSURE NEMA 1,3R, 4, 12 35.4x47.2x11.8 INCHES, CARBON STEEL DOUBLE DDOR	
804~12	115	1		9511.000	RITTAL	PK SERIES POLYCARBONATE SMALL JUNCTION BOX WALL-MOUNT ENCLOSURE NEMA 4X, IP66 130x130x99MM, SOLID COVER UNITS ARE COMPLETELY INSULATED AND CORROSION PROOF	
804~14	118	1		EX260-SEN1	SMC	SI UNIT EX260 PNP ETHERNET/IP DUAL PORT, 32 OUTPUTS	SI410-03A
804~15	118	1	*1	EX260-SEN1	SMC	SI UNIT EX260 PNP ETHERNET/IP DUAL PORT, 32 OUTPUTS	SI412-03A
804~16	131		*1	ZKJM08EAN/36H VE6	SMC	VACUUM MANIFOLD ASSEMBLY ZKJ SERIES 8-STATION W/ EIP SI UNIT 1x8mm HOSE SUPPLY, HIGH NOISE REDUCTION SILENCER 1.2mm NOZZLE, 6 VENTURIES, 2 BLANK STATIONS, NO SUPPLY, NC RELEASE	
804~17	119	1	*1	IS10E-40N04-LP-A	SMC	PRESSURE SWITCH MECHANICAL 0.1-0.4 MPa DISPLAY SCALE INCLUDES BOTH MPa AND PSI 3 METER CABLE, PIPING ADAPTER	PS421-12A
804~18	61		*1	RSMCK 3	LUMBERG	3-PIN M8 (PICO) MALE SINGLE CABLE 3.5-5mm DIAMETER FIELD WIREABLE CONNECTOR SCREW TERMINAL CONNECTION	
804~19	120	1		SS5Y5-10S0-12B -C6	SMC	12-STATION VALVE MANIFOLD ASSEMBLY SY5000 SERIES 6mm METRIC PUSH-IN FITTINGS, 10mm P/E NO SI COMMUNICATION UNIT INTERNAL PILOT	PNEU-MNF410-28 A

804~21

804~22

804~23

804~24

804~25

ITEM	QTY	SUB	CATALOG	MFG	DESCRIPTION	TAGS
122	7		SY5200-5U1-NA	SMC	SY5000 SERIES, NATURAL COLOR 24VDC, PLUG-IN, UNIVERSAL DETENTED RUBBER SEAL	SDL410-30A SDL410-34A SDL410-38A SDL410-40A SDL411-03A SDL411-07A SDL411-09A
123	3		SY5300-5U1-NA	SMC	SY5000 SERIES, NATURAL COLOR 24VDC, PLUG-IN, UNIVERSAL BLOCKED CENTER RUBBER SEAL	SDL410-28A SDL410-36A SDL410-42A
124	2		SY5400-5U1-NA	SMC	SY5000 SERIES, NATURAL COLOR 24VDC, PLUG-IN UNIVERSAL EXHAUST CENTER RUBBER SEAL	SDL410-32A SDL411-05A
125	1		VP744-5DZ1-04N -M-X555	SMC	VP SERIES RESIDUAL PRESSURE RELIEF VALVE 24VDC, 1/2" NPT PORTS, ISO 13849-1 COMPLIANT W/ SOFT START VALVE INCLUDES OMRON SAFETY SWITCHES	SY215-03A
129	2		ZKJ-BP1-A	SMC	BLANKING PLATE ZKJ SERIES SPARE STATION FOR USE WITH ZKJ VACUUM MANIFOLD	SDL412-40A SDL412-42A
130	6		ZKJ12C6H-E5U-T 1	SMC	VACUUM VALVE ZKJ SERIES WITH RELEASE VALVE FOR USE WITH ZKJ VACUUM MANIFOLD HIGH NOISE REDUCTION SILENCER, 1x6mm VACUUM PORT, 1.2mm NOZZLE	SDL412-28A SDL412-30A SDL412-32A SDL412-34A SDL412-36A SDL412-38A
132	1		ZZKJ08-EAN-L8	SMC	VACUUM MANIFOLD ZKJ SERIES 8-STATION W/ EIP SI UNIT 1x8mm HOSE SUPPLY INDIVIDUAL PORT EXHAUST	PNEU-MNF412-28 A
134	1		1018790000	WEIDMULLER	PROGRAMMING RECEPTACLE RJ45 COUPLING 22.5mm MOUNTING	PR620-10A
135	2		1315200000	Weidmuller	DIGITAL INPUT MODULE UR20 PNP 16-POINT DC, IP20	PLC401-28A PLC402-03A
136	2		1315250000	Weidmuller	DIGITAL OUTPUT MODULE UR20 PNP 16-POINT DC, 0.5A/POINT, IP20	PLC402-28A PLC403-03A
137	1		1315740000	Weidmuller	ID-LINK MASTER MODULE UR20 CLASS A 4-CHANNEL IP20	PLC403-28A
138	1		1334920000	WEIDMULLER	FIELDBUS COUPLER ETHERNET/IP IP20 UR20	DN401-03A
139	1		1985680000	WEIDMULLER	10-POLE HARDWARE JUMPER 17.5AMPS, BLUE	TS_DC+
140	1		RSMV 3-RKMV 3-224/1M	LUMBERG	3-PIN M8 (PICO) FEMALE TO 3-PIN M8 (PICO) MALE STRAIGHT PRE-MOLDED CABLE 22AWG 1 METER DOUBLE ENDED	CBL421-13A
141	2		1985710000	WEIDMULLER	5-POLE HARDWARE JUMPER 17.5AMPS, RED	TS_L TS_N
142	2		1988130000	WEIDMULLER	SINGLE SUPPLY TERMINAL WITH JUMPER CONNECTION FEED-THROUGH 41AMPS BLUE, 0.34mm^2-6mm^2, 22AWG-8AWG	TS_DC+ TS_DC-
143	2		1988160000	WEIDMULLER	MODULAR DISTRIBUTION TERMINAL FEED-THROUGH 17.5AMPS RED, 0.14mm^2-1.5mm^2, 26AWG-14AWG	TS_L TS_N
144	27		1988170000	WEIDMULLER	MODULAR DISTRIBUTION TERMINAL FEED-THROUGH 17.5AMPS BLUE, 0.14mm^2-1.5mm^2, 26AWG-14AWG	TS_DC+ TS_DC-
145	4		1988320000	WEIDMULLER	END PLATE ACCESSORY FOR USE WITH GROUPED TERMINAL BLOCKS SERIES A	TS_DC+ TS_DC- TS_L TS_N

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REVISION HISTORY			
REV	DATE	ENGINEER	RELEASE DATE
A	1/20/2025	Jeremy Keene	2/14/2025

DWG. TITLE TOPIDERM CONTRACT MANUFACTURING TOWELETTE PACKETS BOXING MACHINE BILL OF MATERIAL	
ENGINEER J. KEENE	CHECKED BY J.C.K
JOB NO B16821	DRAWN BY J.K.
SCALE N.T.S.	DATE 10/2024
B16821- E804	
ELECTRICAL BILL OF MATERIAL	SHEET 804

DRAWING #	SHEET	SECTION	SUB-SECTION	DESCRIPTION
B16821-P000	P00	PNEUMATICS		SHEET INDEX
B16821-P001	P01	PNEUMATICS		MAIN AIR DISTRIBUTION
B16821-P002	P02	PNEUMATICS		PNEUMATIC MANIFOLD
B16821-P003	P03	PNEUMATICS		PNEUMATIC SCHEMATICS
B16821-P004	P04	PNEUMATICS		PNEUMATIC SCHEMATICS
B16821-P005	P05	PNEUMATICS		VALVE MANIFOLD LAYOUT
B16821-P006	P06	PNEUMATICS		VACUUM MANIFOLD LAYOUT
B16821-P007	P07	PNEUMATICS		BILL OF MATERIAL
B16821-P008	P08	PNEUMATICS		BILL OF MATERIAL

DWG. TITLE

TOPIDERM CONTRACT MANUFACTURING
TOWELETTE PACKETS
BOXING MACHINE
SHEET INDEX

ENGINEER

J. KEENE

CHECKED BY

J.C.K

JOB NO

B16821

DRAWN BY

J.K

SCALE

N.T.S.

DATE

10/2024

DWG NO

B16821– P000

PNEUMATICS

SHEET
P00



WAUSEON MACHINE

995 Enterprise Ave. Wauseon OH 43567 • Ph (419)337-0940 • www.wauseonmachine.com

REVISION HISTORY			
REV	DATE	STATE	ENGINEER
A	1/20/2025	RELEASED	Jeremy Keene

This drawing or print:

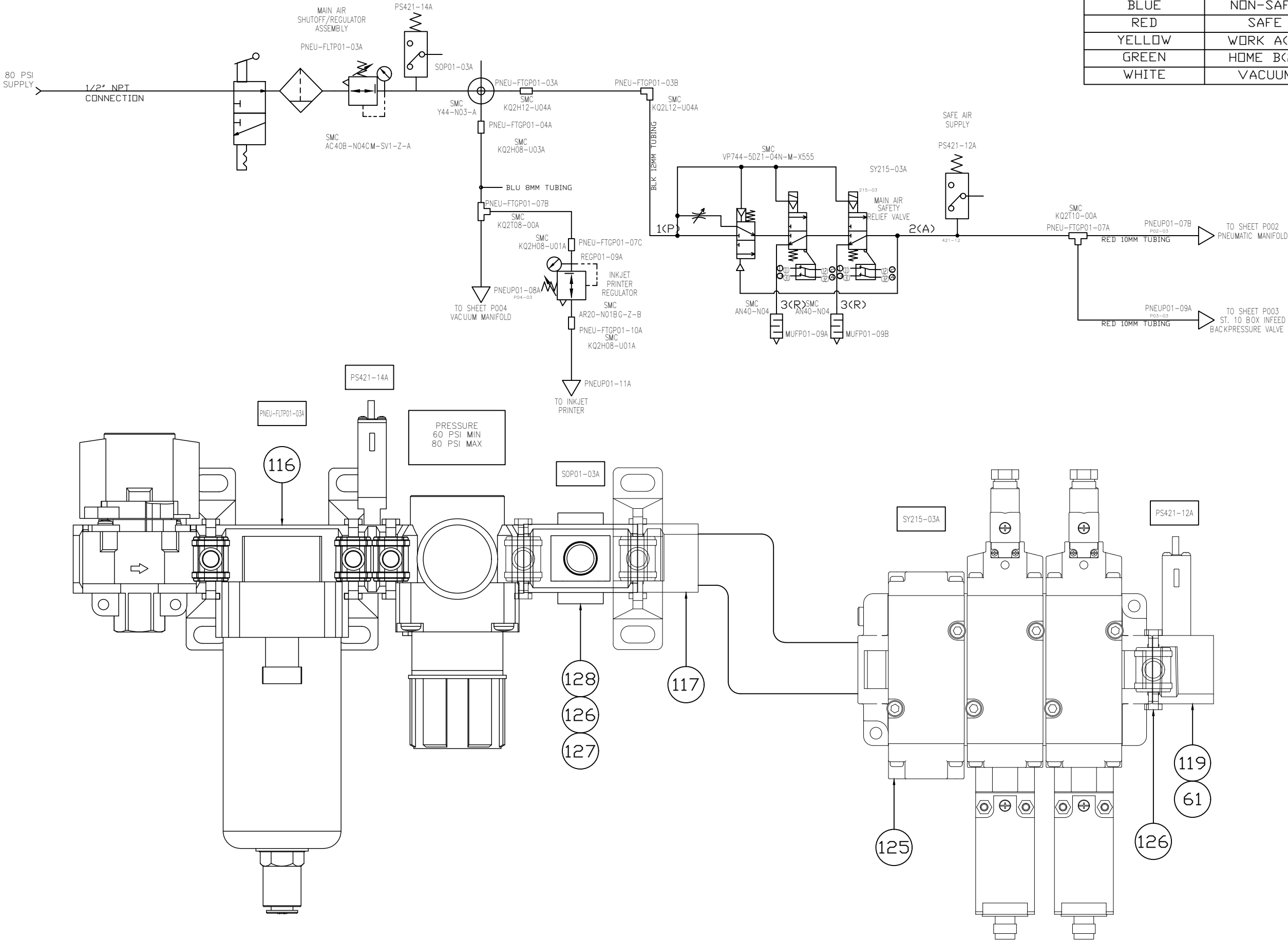
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P01~01
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P01~25



TUBING CHART	
BLACK	SUPPLY
BLUE	NON-SAFE
RED	SAFE
YELLOW	WORK A<4>
GREEN	HOME B<2>
WHITE	VACUUM

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REVISION HISTORY	
REV	DATE
A	1/20/2025
ENGINEER	
Jeremy Keene	
RELEASED	
2/14/2025	



DWG TITLE	
TOPIDERM CONTRACT MANUFACTURING TOWELETTE PACKETS BOXING MACHINE MAIN AIR DISTRIBUTION	
ENGINEER J. KEENE	CHECKED BY J.C.K
JOB NO B16821	DRAWN BY J.K.
SCALE N.T.S.	DATE 10/2024
DWG NO B16821-P001	
PNEUMATICS	SHEET P01

P04~01
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P04~25

FROM SHEET P001
MAIN AIR DISTRIBUTION
PNEU01-08A
P01-08

BLU 8MM TUBING

SMC
KQ2U06-00A
PNEU-FTGP04-06D
PNEU-VACP04-06K
SCHMALZ
10.01.01.13242
10.08.02.00158
10.08.03.00181

SMC
KQ2T06-00A
KQ2L06-99A
PNEU-FTGP04-06A
PNEU-VACP04-06A
SCHMALZ
10.01.01.13242
10.08.02.00158
10.08.03.00181

SMC
KQ2T06-00A
PNEU-FTGP04-06B
PNEU-VACP04-06C
SCHMALZ
10.01.01.13242
10.08.02.00158

SMC
KQ2T06-00A
PNEU-FTGP04-06C
PNEU-VACP04-06E
SCHMALZ
10.01.01.13242
10.08.02.00158

SMC
KQ2T06-00A
PNEU-FTGP04-06C
PNEU-VACP04-06F
SCHMALZ
10.01.01.13242
10.08.02.00158

SMC
KQ2T06-00A
PNEU-FTGP04-06C
PNEU-VACP04-06G
SCHMALZ
10.01.01.13242
10.08.02.00158
10.08.03.00181

SMC
KQ2T06-00A
PNEU-FTGP04-06C
PNEU-VACP04-06H
SCHMALZ
10.01.01.13242
10.08.03.00181
10.08.02.00204

SMC
KQ2T06-00A
PNEU-FTGP04-06C
PNEU-VACP04-06J
SCHMALZ
10.01.01.13242
10.08.02.00158
10.08.03.00181

WHT 6MM TUBING

WHT 6MM TUBING

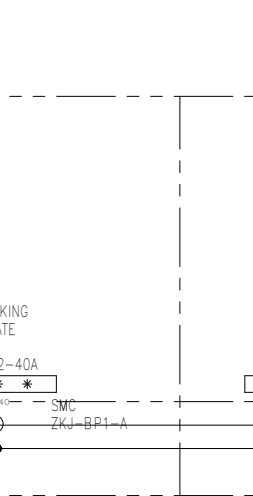
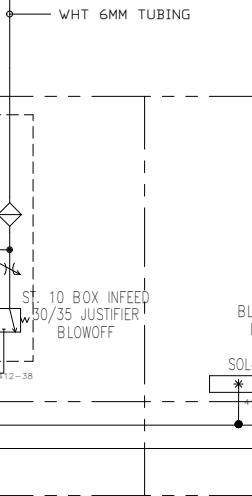
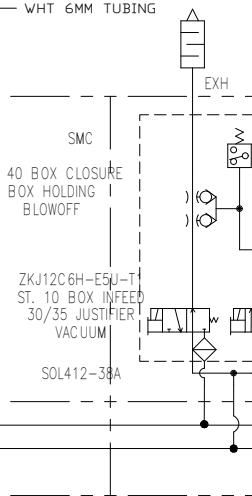
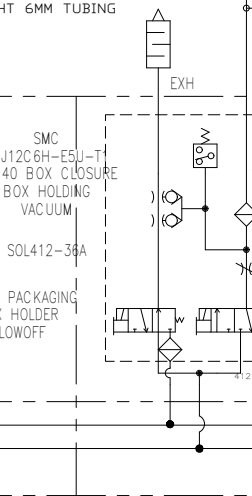
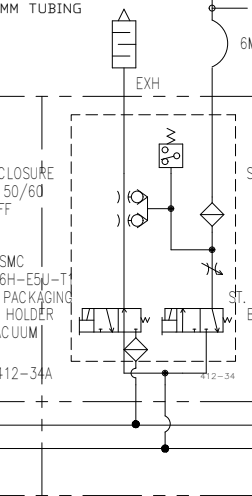
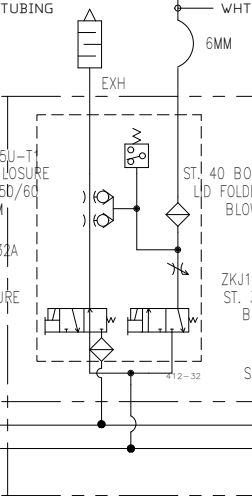
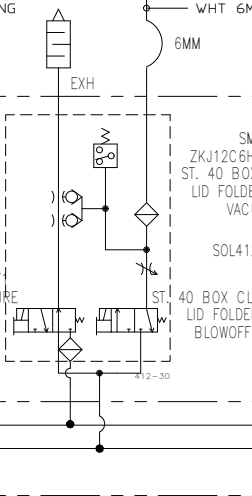
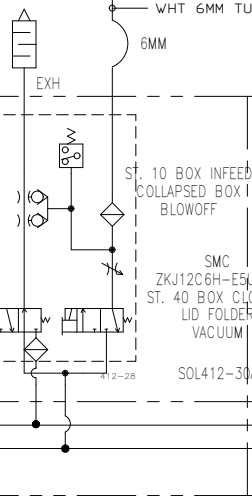
WHT 6MM TUBING

WHT 6MM TUBING

WHT 6MM TUBING

WHT 6MM TUBING

WHT 6MM TUBING



PNEU-MNF412-28A
BANK
STATION
8-STATION MANIFOLD

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REVISION HISTORY		ENGINEER	RELEASE DATE
STATE		Jeremy Keene	2/14/2025
RELEASED			
REV	DATE		
A	1/20/2025		

WAUSEON MACHINE
995 Enterprise Ave. Wauseon OH 43567 • Ph (419)337-0940 • www.wauseonmachine.com

DWG TITLE
**TOPIDERM CONTRACT MANUFACTURING
TOWELETTE PACKETS
BOXING MACHINE
PNEUMATIC SCHEMATICS**

ENGINEER J. KEENE	CHECKED BY J.C.K
JOB NO B16821	DRAWN BY J.K.
SCALE N.T.S.	DATE 10/2024

B16821- P004

PNEUMATICS

**SHEET
P04**

P05-01

P05-02

P05-03

P05-04

P05-05

P05-06

P05-07

P05-08

P05-09

P05-10

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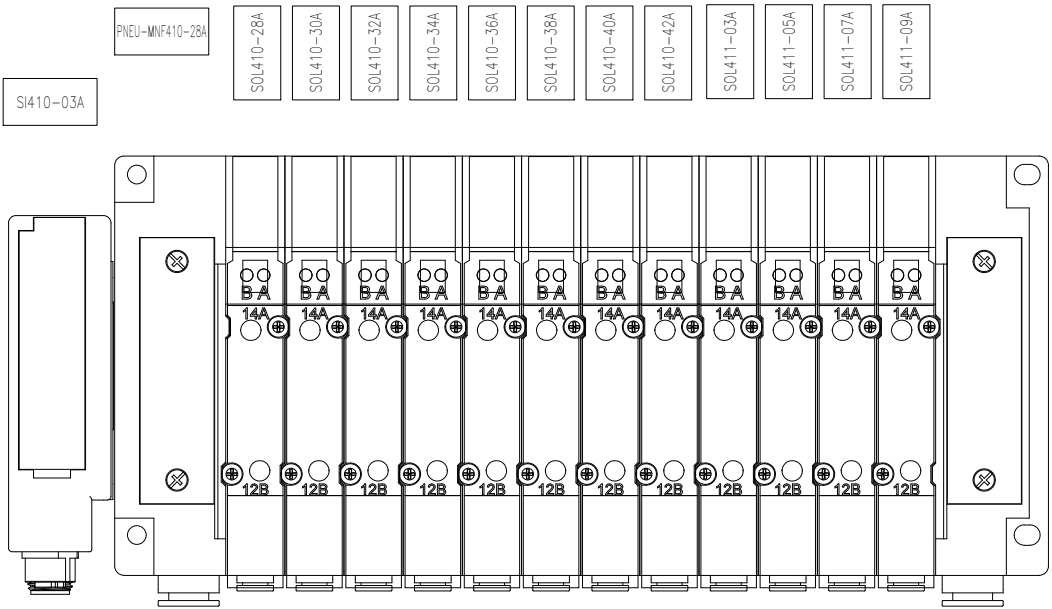
P05-21

P05-22

P05-23

P05-24

P05-25



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REVISION HISTORY			
REV	DATE	STATE	RELEASE DATE
A	1/20/2025	RELEASED	2/14/2025



DWG. TITLE

TOPIDERM CONTRACT MANUFACTURING
TOWELETTE PACKETS
BOXING MACHINE
VALVE MANIFOLD LAYOUT

ENGINEER J. KEENE	CHECKED BY J.C.K
JOB NO B16821	DRAWN BY J.K.
SCALE N.T.S.	DATE 10/2024

DWG NO

B16821- P005

PNEUMATICS

SHEET
P05

P06~01

P06~02

P06~03

P06~04

P06~05

P06~06

P06~07

P06~08

P06~09

P06~10

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P06~20

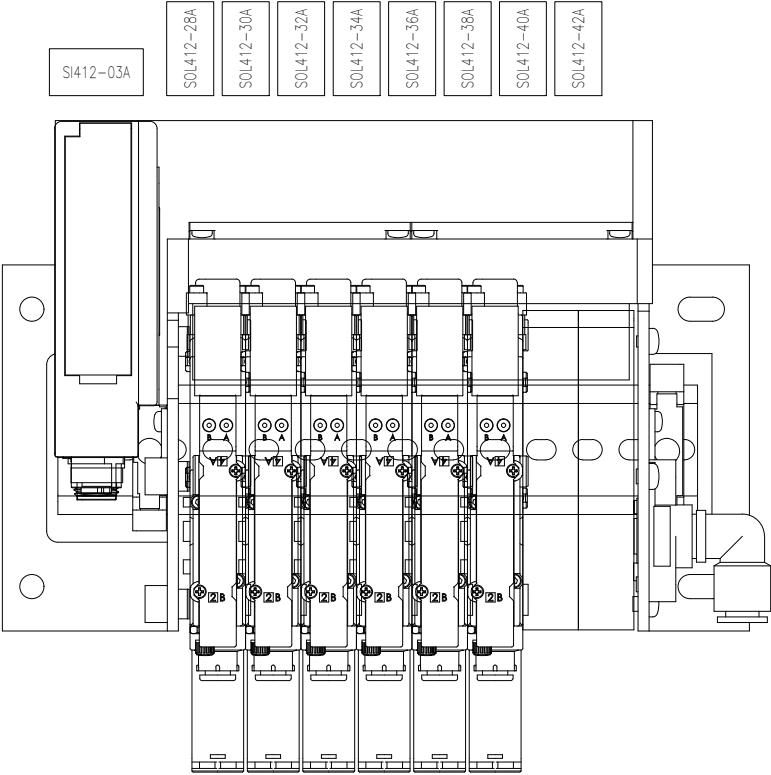
P06~21

P06~22

P06~23

P06~24

P06~25



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REVISION HISTORY			
REV	DATE	STATE	RELEASE DATE
A	1/20/2025	RELEASED	2/14/2025
		ENGINEER	Jeremy Keene



DWG. TITLE	
TOPIDERM CONTRACT MANUFACTURING TOWELETTE PACKETS BOXING MACHINE VACUUM MANIFOLD LAYOUT	
ENGINEER J. KEENE	CHECKED BY J.C.K
JOB NO B16821	DRAWN BY J.K.
SCALE N.T.S.	DATE 10/2024
DWG NO B16821- P006	
PNEUMATICS	SHEET P06

P07~01		ITEM	QTY	SUB	CATALOG	MFG	DESCRIPTION	TAGS
P07~02		116	1		AC40B-N04CM-S V1-Z-A	SMC	FILTER/REGULATOR ASSEMBLY LEFT TO RIGHT 1/2" NPT INCLUDES MANUAL SHUTOFF VALVE AND PRESSURE SWITCH	PNEU-FLTP01-03 A
P07~03		117	1		E400-N04-A	SMC	PIPE ADAPTER ACCESSORY 1/2" NPT	
P07~04		118	1		EX260-SEN1	SMC	SI UNIT EX260 PNP ETHERNET/IP DUAL PORT, 32 OUTPUTS	SI410-03A
P07~05		118	1	✖1	EX260-SEN1	SMC	SI UNIT EX260 PNP ETHERNET/IP DUAL PORT, 32 OUTPUTS	SI412-03A
P07~06		131		✖1	ZKJM08EAN/36H VE6	SMC	VACUUM MANIFOLD ASSEMBLY ZKJ SERIES 8-STATION W/ EIP SI UNIT 1x8mm HOSE SUPPLY, HIGH NOISE REDUCTION SILENCER 1.2mm NOZZLE, 6 VENTURIES, 2 BLANK STATIONS, NO SUPPLY, NC RELEASE	
P07~07		119	1	✖1	JS10E-40N04-LP-A	SMC	PRESSURE SWITCH MECHANICAL 0.1-0.4 MPa DISPLAY SCALE INCLUDES BOTH MPa AND PSI 3 METER CABLE, PIPING ADAPTER	PS421-12A
P07~08		61		✖1	RSMCK 3	LUMBERG	3-PIN M8 (PICD) MALE SINGLE CABLE 3.5-5mm DIAMETER FIELD WIREABLE CONNECTOR SCREW TERMINAL CONNECTION	
P07~09		120	1		SS5Y5-10S0-12B -C6	SMC	12-STATION VALVE MANIFOLD ASSEMBLY SY5000 SERIES 6mm METRIC PUSH-IN FITTINGS, 10mm P/E NO SI COMMUNICATION UNIT INTERNAL PILOT	PNEU-MNF410-28 A
P07~10		121	1		MGPM25-40Z	SMC	GUIDED CYLINDER SLIDE BEARING 25mm BORE 40mm STROKE M5x0.8 PORTS	PNEU-CYLP03-06 A
P07~11		122	7		SY5200-SU1-NA	SMC	SY5000 SERIES, NATURAL COLOR 24VDC, PLUG-IN, UNIVERSAL DETENTED RUBBER SEAL	SOL410-30A SOL410-34A SOL410-38A SOL410-40A SOL411-03A SOL411-07A SOL411-09A
P07~12		123	3		SY5300-SU1-NA	SMC	SY5000 SERIES, NATURAL COLOR 24VDC, PLUG-IN, UNIVERSAL BLOCKED CENTER RUBBER SEAL	SOL410-28A SOL410-36A SOL410-42A
P07~13		124	2		SY5400-SU1-NA	SMC	SY5000 SERIES, NATURAL COLOR 24VDC, PLUG-IN UNIVERSAL EXHAUST CENTER RUBBER SEAL	SOL410-32A SOL411-05A
P07~14		125	1		VP744-5DZ1-04N -M-X555	SMC	VP SERIES RESIDUAL PRESSURE RELIEF VALVE 24VDC, 1/2" NPT PORTS, ISO 13849-1 COMPLIANT W/ SOFT START VALVE INCLUDES OMRON SAFETY SWITCHES	SY215-03A
P07~15		126	1		Y400-A	SMC	BRACKET ACCESSORY ACCESSORY	
P07~16		128	1	✖1	Y44-N03-A	SMC	CROSS SPACER ACCESSORY 3/8" NPT	SOP01-03A
P07~17		126		✖1	Y400-A	SMC	BRACKET ACCESSORY ACCESSORY	
P07~18		127		✖1	Y400T-A	SMC	BRACKET WITH SPACER ACCESSORY ACCESSORY	
P07~19		129	2		ZKJ-BP1-A	SMC	BLANKING PLATE ZKJ SERIES SPARE STATION FOR USE WITH ZKJ VACUUM MANIFOLD	SOL412-40A SOL412-42A
P07~20		130	6		ZKJ12C6H-E5U-T 1	SMC	VACUUM VALVE ZKJ SERIES WITH RELEASE VALVE FOR USE WITH ZKJ VACUUM MANIFOLD HIGH NOISE REDUCTION SILENCER, 1x6mm VACUUM PORT, 1.2mm NOZZLE	SOL412-28A SOL412-30A SOL412-32A SOL412-34A SOL412-36A SOL412-38A

P07~21

P07~22

P07~23

P07~24

P07~25

	ITEM	QTY	SUB	CATALOG	MFG	DESCRIPTION	TAGS
	132	1		ZZKJ08-EAN-L8	SMC	VACUUM MANIFOLD ZKJ SERIES 8-STATION W/ EIP SI UNIT 1x8mm HOSE SUPPLY INDIVIDUAL PORT EXHAUST	PNEU-MNF412-28 A
	182	1		MXH2B16-60	SMC	SLIDE TABLE COMPACT 16mm BORE 60mm STROKE M5x0.8 PORTS	PNEU-CYLP03-08 B
	184	1	✖1	10.01.01.13242	SCHMALZ	SUCTION CUP FLAT ROUND G 1/8 PORT, MALE PART SPF 25 ED-65 G1/8-AG	PNEU-VACP04-0 6H
	187		✖1	10.08.03.00181	SCHMALZ	BULKHEAD UNION M16 MALE THREAD G1/8 FEMALE THREAD	
	186		✖1	10.08.02.00204	SCHMALZ	PUSH-IN FITTING MALE CONNECTOR G1/8 TO 6mm HOSE	
	184	4	✖1	10.01.01.13242	SCHMALZ	SUCTION CUP FLAT ROUND G 1/8 PORT, MALE PART SPF 25 ED-65 G1/8-AG	PNEU-VACP04-0 6C PNEU-VACP04-0 6D PNEU-VACP04-0 6E PNEU-VACP04-0 6F
	185		✖1	10.08.02.00158	SCHMALZ	PUSH-IN FITTING MALE ELBOW G1/8 TO 6mm HOSE	
	184	5	✖1	10.01.01.13242	SCHMALZ	SUCTION CUP FLAT ROUND G 1/8 PORT, MALE PART SPF 25 ED-65 G1/8-AG	PNEU-VACP04-0 6A PNEU-VACP04-0 6B PNEU-VACP04-0 6G PNEU-VACP04-0 6J PNEU-VACP04-0 6K
	185		✖1	10.08.02.00158	SCHMALZ	PUSH-IN FITTING MALE ELBOW G1/8 TO 6mm HOSE	
	187		✖1	10.08.03.00181	SCHMALZ	BULKHEAD UNION M16 MALE THREAD G1/8 FEMALE THREAD	
	191	2		AR20-N018G-Z-B	SMC	PRESSURE REGULATOR RELIEVING TYPE 0.05 TO 0.85 MPa ROUND GAUGE, PSI UNITS	REGP01-09A REGP03-08A
	192	14		AS1201F-M5-06A	SMC	FLOW CONTROL METER OUT M5-0.8 TO 6mm HOSE	PNEU-FLCP02-02 A PNEU-FLCP02-02 B PNEU-FLCP02-03 A PNEU-FLCP02-04 C PNEU-FLCP02-05 A PNEU-FLCP02-06 C PNEU-FLCP02-07 A PNEU-FLCP02-07 B PNEU-FLCP03-08 A PNEU-FLCP03-08 B PNEU-FLCP03-08 C PNEU-FLCP03-08 D PNEU-FLCP03-08 E PNEU-FLCP03-08 F
	193	8		AS2201F-U01-06A	SMC	FLOW CONTROL METER OUT 1/8 UNIVERSAL TO 6mm HOSE	PNEU-FLCP02-03 B PNEU-FLCP02-03 C PNEU-FLCP02-04 A PNEU-FLCP02-04 B PNEU-FLCP02-08 A PNEU-FLCP02-08 B PNEU-FLCP02-08 C PNEU-FLCP02-08 D
	194	2		AS2201F-U01-10A	SMC	FLOW CONTROL METER OUT 1/8 UNIVERSAL TO 10mm HOSE	PNEU-FLCP03-07 A PNEU-FLCP03-07 B
	195	2		AS2301F-N01-06A	SMC	FLOW CONTROL METER OUT 1/8" NPT TO 6mm HOSE	PNEU-FLCP02-05 B PNEU-FLCP02-05 C
	196	2		ASP330F-01-06S	SMC	FLOW CONTROL METER OUT, PD CHECK Rc 1/8 TO 6mm HOSE	PNEU-FLCP03-06 A PNEU-FLCP03-06 B
	197	2		ASP330F-N01-06 S	SMC	FLOW CONTROL METER OUT, PD CHECK 1/8" NPT TO 6mm HOSE	PNEU-FLCP02-09 A PNEU-FLCP02-09 B

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REVISION HISTORY			
REV	DATE	ENGINEER	RELEASE DATE
A	1/20/2025	Jeremy Keene	2/14/2025



DWG TITLE TOPIDERM CONTRACT MANUFACTURING TOWELETTE PACKETS BOXING MACHINE BILL OF MATERIAL	
ENGINEER J. KEENE	CHECKED BY J.C.K
JOB NO B16821	DRAWN BY J.K.
SCALE N.T.S.	DATE 10/2024
DWG NO B16821-P007	
PNEUMATICS	SHEET P07

P08~01		ITEM	QTY	SUB	CATALOG	MFG	DESCRIPTION	TAGS
P08~02		199	1		CDG1LA32-500Z	SMC	ROUND BODY CYLINDER DOUBLE ACTING, AXIAL FOOT 32mm BORE 500mm STROKE Rc 1/8 PORTS	PNEU-CYLP02-04 A
P08~03		200	1		CDQ2D20-25DMZ	SMC		PNEU-CYLP03-08 A
P08~04		201	1		CY3R20TN-500	SMC	RODLESS CYLINDER MAGNETICALLY COUPLED 20mm BORE 500mm STROKE 1/8" NPT PORTS	PNEU-CYLP03-07 A
P08~05		204	2		KQ2H08-U01A	SMC	PUSH-IN FITTING MALE CONNECTOR UNIVERSAL 1/8" FOR 8mm HOSE	PNEU-FTGP01-07 C PNEU-FTGP01-10 A
P08~06		205	1		KQ2H08-U03A	SMC	PUSH-IN FITTING MALE CONNECTOR UNIVERSAL 3/8" FOR 8mm HOSE	PNEU-FTGP01-04 A
P08~07		206	4		KQ2H10-U01A	SMC	PUSH-IN FITTING MALE CONNECTOR UNIVERSAL 1/8" FOR 10mm HOSE	PNEU-FTGP03-07 A PNEU-FTGP03-09 A PNEU-FTGP03-12 A PNEU-FTGP03-15 A
P08~08		207	1		KQ2H12-U04A	SMC	PUSH-IN FITTING MALE HEXAGON UNIVERSAL 1/2" FOR 12mm HOSE	PNEU-FTGP01-03 A
P08~09		208	1		KQ2L12-U04A	SMC	PUSH-IN FITTING MALE ELBOW 1/2" UNIVERSAL FOR 12mm HOSE	PNEU-FTGP01-03 B
P08~10		209	1	✕1	KQ2T06-00A	SMC	TEE FITTING SAME DIAMETER 6mm HOSE	PNEU-FTGP04-06 A
P08~11		226		✕1	KQ2L06-99A	SMC	MALE ELBOW ACCESSORY 6mm PORT TO 6mm HOSE	
P08~12		209	4		KQ2T06-00A	SMC	TEE FITTING SAME DIAMETER 6mm HOSE	PNEU-FTGP02-09 A PNEU-FTGP02-09 B PNEU-FTGP04-06 B PNEU-FTGP04-06 C
P08~13		210	1		KQ2T08-00A	SMC	TEE FITTING SAME DIAMETER 8mm HOSE	PNEU-FTGP01-07 B
P08~14		211	1		KQ2T10-00A	SMC	TEE FITTING SAME DIAMETER 10mm HOSE	PNEU-FTGP01-07 A
P08~15		212	1		MGPM16-125Z	SMC	GUIDED CYLINDER SLIDE BEARING 16mm BORE 125mm STROKE M5x0.8 PORTS	PNEU-CYLP02-05 B
P08~16		213	1		MGPM20-150Z	SMC	GUIDED CYLINDER SLIDE BEARING 20mm BORE 150mm STROKE Rc 1/8 PORTS	PNEU-CYLP03-05 A
P08~17		214	2		MXH2B20-100	SMC	SLIDE TABLE COMPACT 20mm BORE 100mm STROKE M5x0.8 PORTS	PNEU-CYLP02-02 A PNEU-CYLP02-07 B
P08~18		215	1		MXW20TN-250B	SMC	SLIDE TABLE LONG STROKE PRECISION, SHOCK ABSORBERS 20mm BORE 250mm STROKE 1/8" NPT PORTS	PNEU-CYLP02-07 A
P08~20		216	1		MXW25TN-275B	SMC	SLIDE TABLE LONG STROKE PRECISION, SHOCK ABSORBERS 25mm BORE 275mm STROKE 1/8" NPT PORTS	PNEU-CYLP02-05 C
P08~21		217	1		MXW25TN-300B	SMC	SLIDE TABLE LONG STROKE PRECISION, SHOCK ABSORBERS 25mm BORE 300mm STROKE 1/8" NPT PORTS	PNEU-CYLP02-09 A

ITEM	QTY	SUB	CATALOG	MFG	DESCRIPTION	TAGS
218	1		NCDQ2L20-50DZ	SMC	COMPACT CYLINDER DOUBLE ACTING, FOOT 20mm BORE 50mm STROKE M5x0.8 PORTS	PNEU-CYLP02-03 A
219	1		VM430-N01-34B	SMC	MANUAL OPERATED VALVE 3-WAY, NC -100kPa-1MPa BLACK SELECTOR SWITCH OPERATOR 1/8" NPT PORTS	PNEU-VLVP03-1 4A
223	3		KQ2U06-00A	SMC	PLUG-IN "Y" ACCESSORY 6mm PORT TO 6mm HOSE	PNEU-FTGP02-10 A PNEU-FTGP02-10 B PNEU-FTGP04-06 D
224	2		MGPM20TN-25Z	SMC	GUIDED CYLINDER SLIDE BEARINGS 20mm BORE 25mm STROKE 1/8" NPT PORTS	PNEU-CYLP02-02 B PNEU-CYLP02-07 C

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REVISION HISTORY			
REV	DATE	ENGINEER	RELEASE DATE
A	1/20/2025	Jeremy Keene	2/14/2025



DWG. TITLE TOPIDERM CONTRACT MANUFACTURING TOWELETTE PACKETS BOXING MACHINE BILL OF MATERIAL	
ENGINEER J. KEENE	CHECKED BY J.C.K
JOB NO B16821	DRAWN BY J.K.
SCALE N.T.S.	DATE 10/2024
DWG NO B16821-P008	
SHEET P08	