

ZOON



# **ZOOM SYSTEM TECHNICAL DRAWINGS - Mining industries**

The main purpose of this complete system drawings is to provide the customer with a representation of the entire ZOOM Monitoring System. It all starts with the installation of the sensors, followed by the cabling to finally reach the instrumentation cabinet and the connection to the ZOOM server. It also includes all interactions with the customer's control systems (SCADA, PLC, Corporate network, etc...). It is also a reference used to guide all parties involved during the installation, both for planning and execution of work. When the installation is considered to be completed, the complete system drawings will become the long-term reference for remembering how the ZOOM Monitoring System is installed.

# **DRAWINGS MAIN FEATURES**

- The content of the drawings grouped by speciality to easily divide the work
- A first version is provided at the first stages of the installation for planning purposes
- Drawing updates are offered during the various stages of installation and commissioning
- A final version will be provided upon completion of installation and commissioning

### **Drawings sections and detailed content**

Se	ection	Description
A.	High level diagrams & network details	Includes the general arrangement, including the system overview, system flowchart, block diagram, and finally the network layout.
В.	Measuring chains locations & installation details	Includes installation details for each sensor, including the general view of the mill with sensor location, installation details, and approximate view of the sensor.
C.	Mechanical	Includes the installation details for each mechanical component, i.e dimensions, clearance, anchoring of the cabinet, and mounting of all types of junctions boxes.
D.	Cabling & wiring	Includes the detailed wiring for the connection of all measuring chains, starting with each sensor up to the connection inside the instrumentation cabinet.
E.	ZOOM Monitoring cabinet internal components & wiring	Includes the equipment layouts and overviews of each ZPU-5000 are also included. It also includes the detailed electrical diagram of the cabinet.
F.	Junction box (WME) internal components & wiring	Includes the enclosures and boxes details, showing the location of each signal conditioner and the assignment of the terminal blocks.

# **PRODUCT INFORMATION**

Product Number	Description
VSM-STDWG/M	ZOOM System Technical Drawings - Complete package

### Appendix: ZOOM system technical drawings example

NOTICE: Trademarks referenced herein are trademarks and registered trademarks of VibroSystM Inc. or third parties, and are the property of their respective

owners. Third party trademarks are used for identification purposes only and shall not be construed as indicative of any relationship or endorsement between

VibroSystM Inc. and the third parties.

Publication: 2023-12-21

VibroSystM Inc. | www.vibrosystm.com

VibroSystM Inc. reserves the right to change specifications to improve products without notice.

# ZOOM MONITORING SYSTEM FOR PROJECT: YOUR MINING SITE

3

TABLE OF SECTIONS
SECTION A – HIGH LEVEL DIAGRAMS & NETWORK DETAILS
SECTION B – MEASURING CHAINS LOCATIONS & INSTALLATION DETAILS
SECTION C – MECHANICAL
SECTION D – CABLING & WIRING
SECTION E – ZOOM MONITORING CABINET INTERNAL COMPONENTS & WIRING
SECTION F - JUNCTION BOXES (WME) INTERNAL COMPONENTS & WIRING

Note(s): 0 YY-MM-DD Date Description Rev: C Copyright VibroSystM inc.2023 Section: \_ Z00 Title: VIBROSYSTM VibroSystM inc. reserves the right to make changes without prior notice to improve the product. Product number: Drawing number: Sheet: Rev. VSM-CAB-MINE1-100 VSM-DWG-MINE1-100 СΡ Α 2 3

2

1

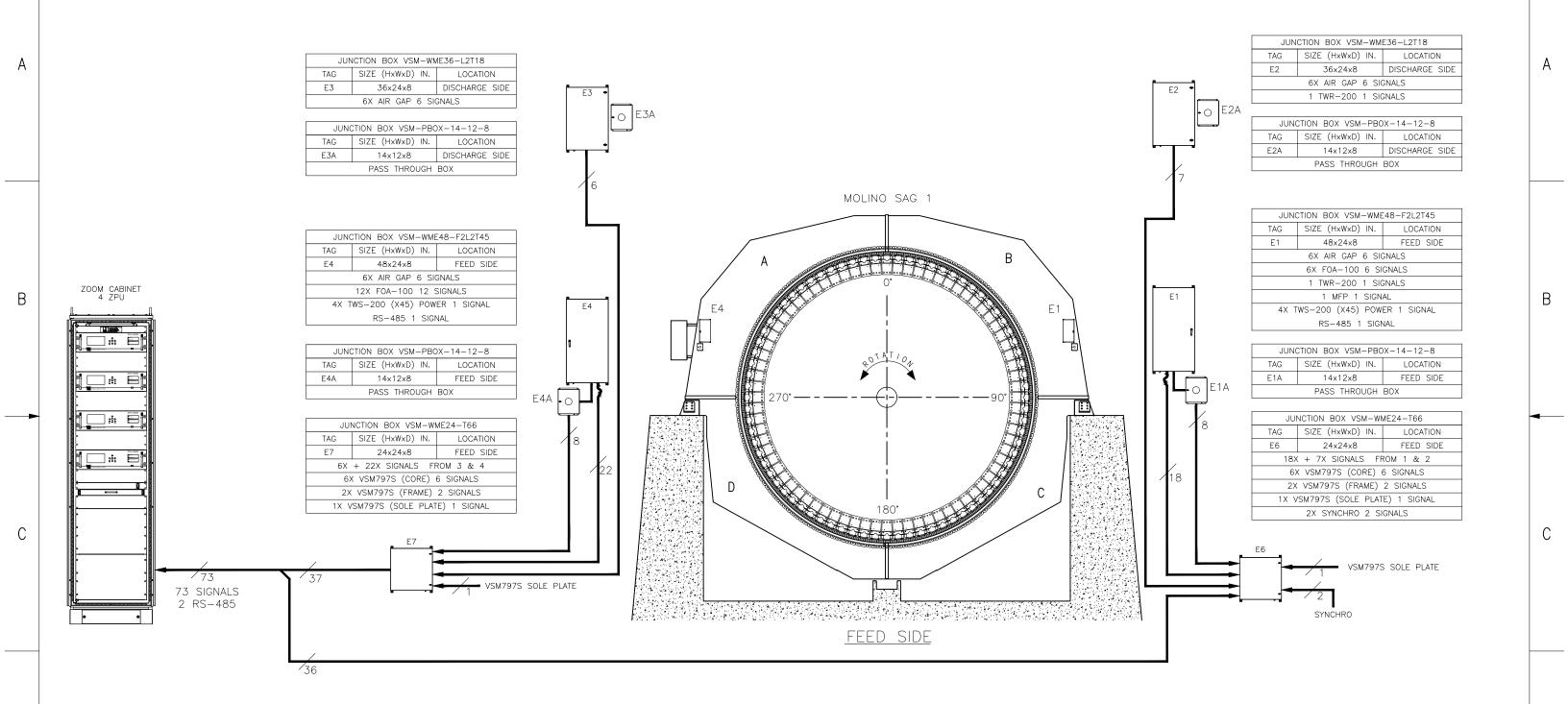
А

В

С

D

	A
	В
	C
Checked by: SYSTEM PROJECT: YOUR AGE & TABLE OF SECTIO	D



D	

2023rev	VIDDOCI		C copyright vibrosystm mc.2025	Section: A HIGH L	EVEL DIAGRAMS & NETWORK DETAILS	5	Tit	tle: Z(	ООМ
CADREBH2C	VIBROSY	SIN	VibroSystM inc. reserves the right to make changes without prior notice to improve the product.	Product number: VSM-CAB-MINE1-100	Drawing number: VSM—DWG—MINE1—100	Sheet: Rev. A1 1	:		
	1		2		3				

2

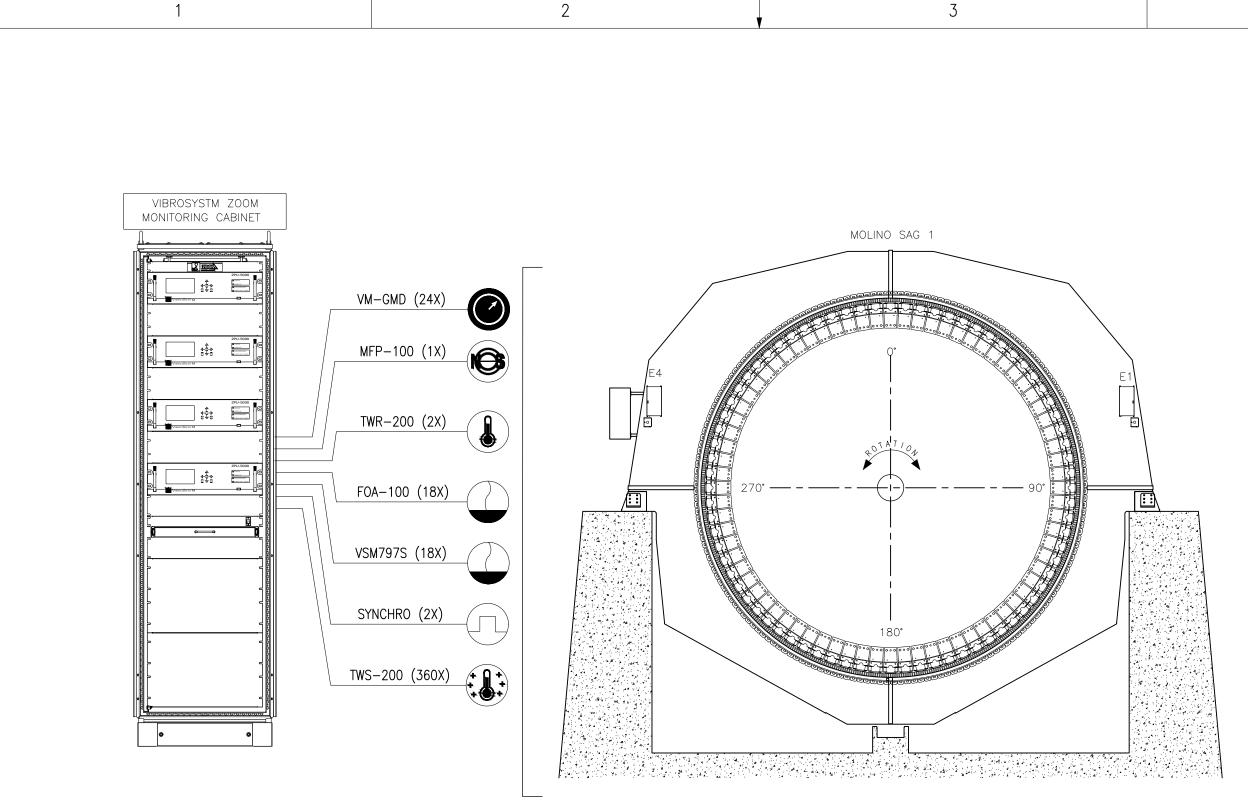
3

### OM MONITORING SYSTEM PROJECT: YOUR MINING SITE SYSTEM OVERVIEW

4

VSM-DWG-MINE1-100-A1-1.DWG

D



FEED SIDE

Section: A © Copyright VibroSystM inc.2023 VIBROSYSTM HIGH LEVEL DIAGRAMS & NETWORK DETAILS ZOOM MONITORING SYSTEM PROJECT: YOUR MINING SITE Title: VibroSystM inc. reserves the right to make changes without prior notice to improve the product. Product number: Drawing number: FLOW CHART Sheet: Rev. VSM-CAB-MINE1-100 VSM-DWG-MINE1-100 A2 1 2 3

А

В

С

D

<u>LEGEND</u>

4



AIR GAP (VM-GMD)

А

В

С

D



MAGNETIC FLUX



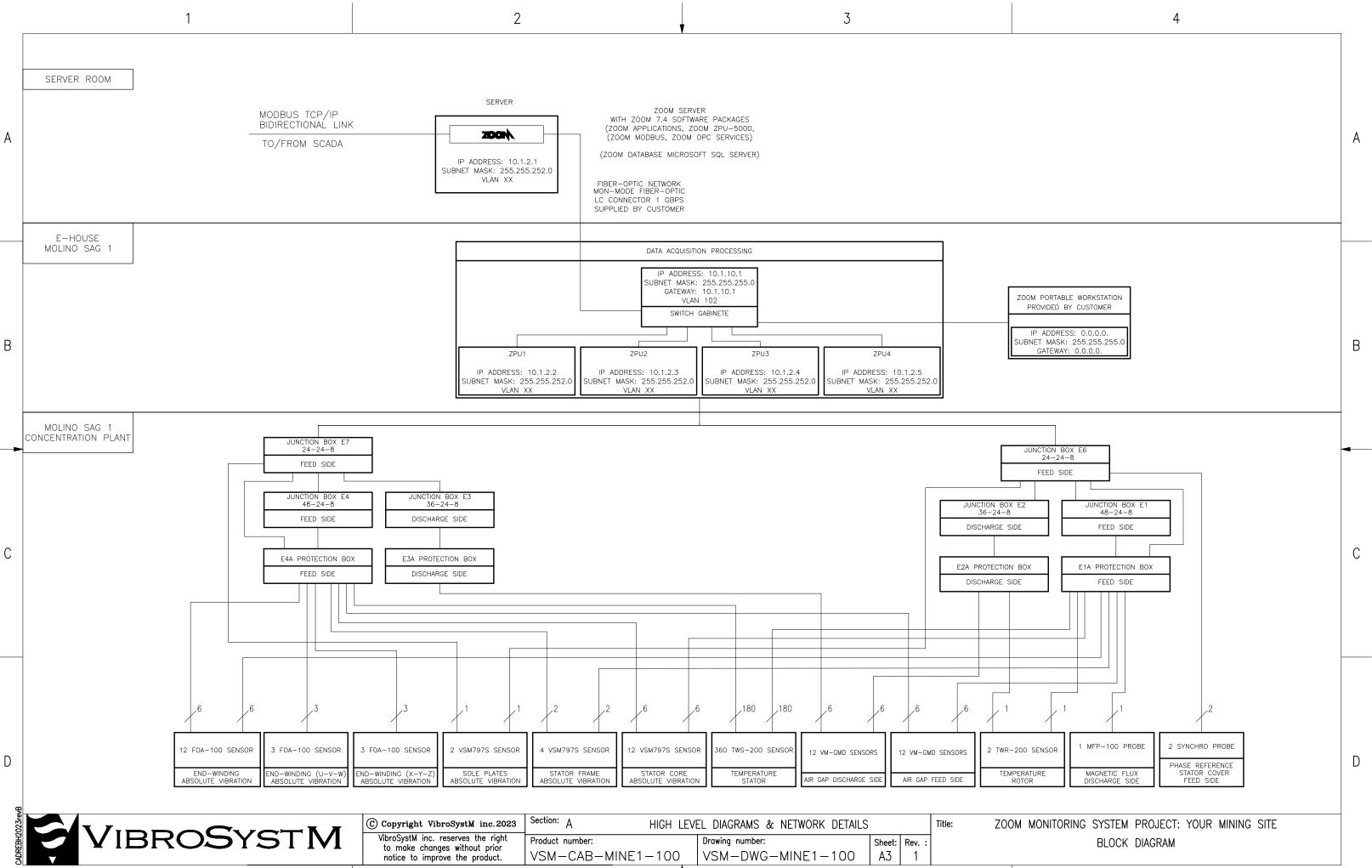
ABSOLUTE VIBRATION



TEMPERATURE TWS



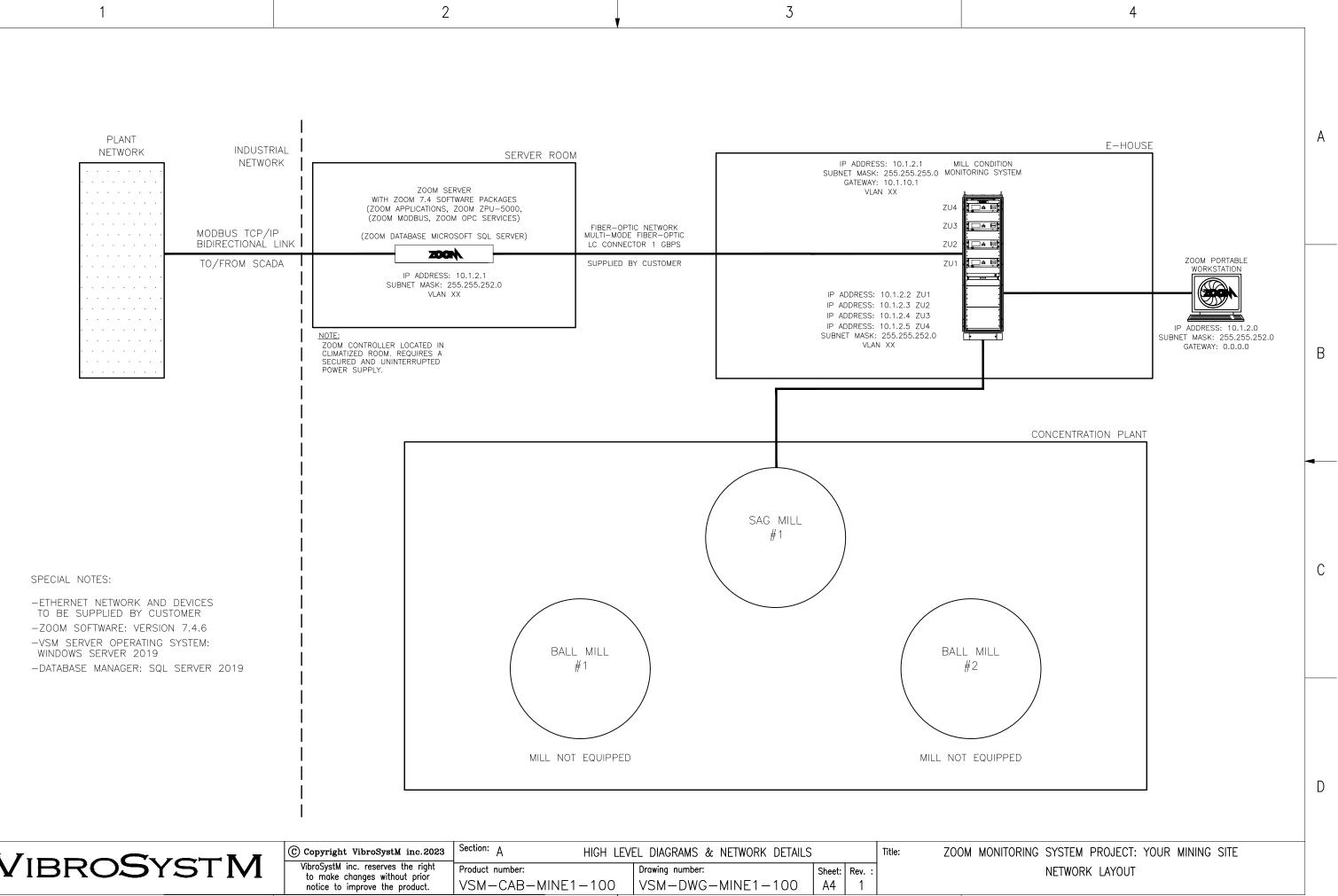
SYNCHRO



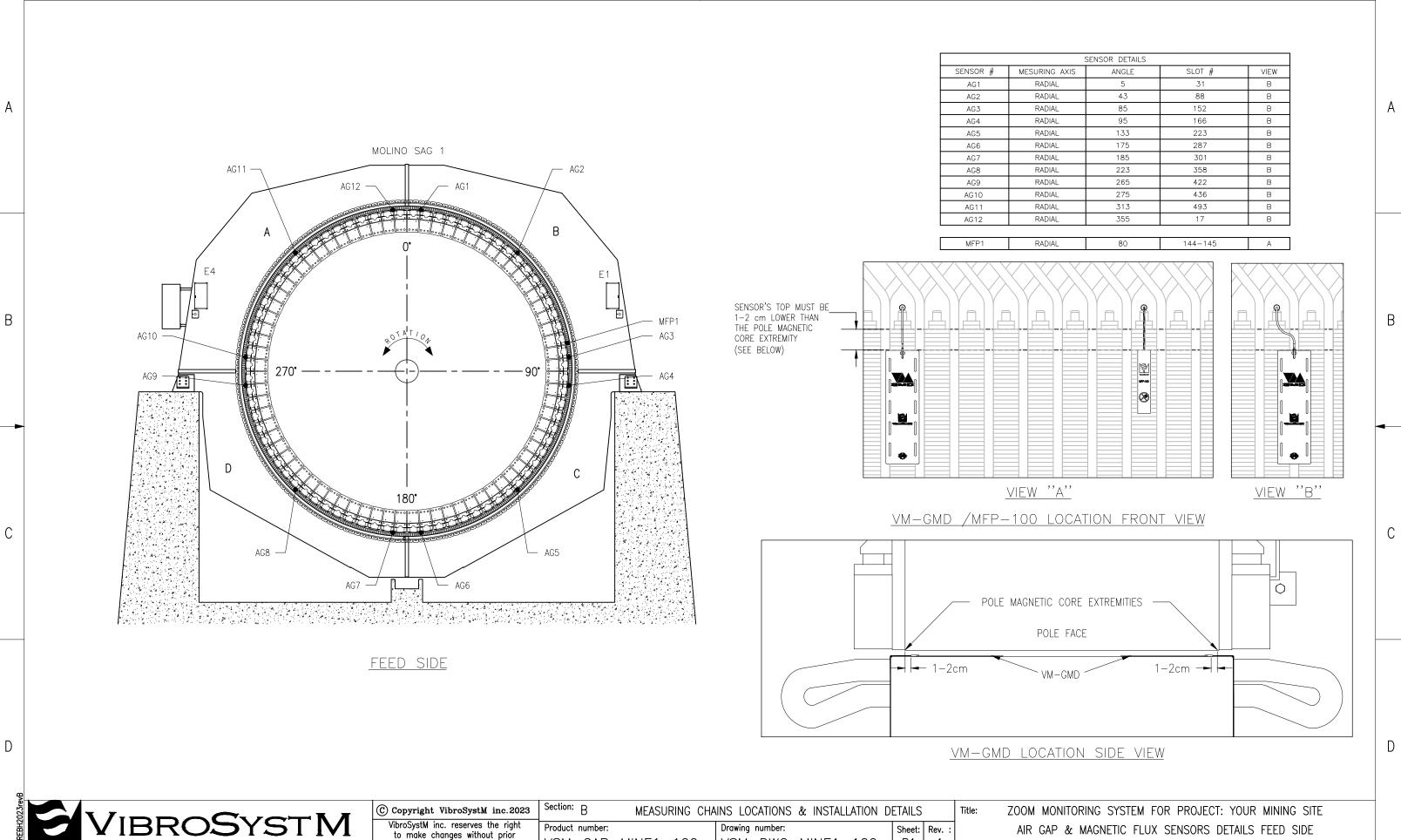
В

С

D



	C Copyright VibroSystM inc.2023	Section: A HIGH L	EVEL DIAGRAMS & NETWORK DETAILS		Title:
VIBROSYSTM	VibroSystM inc. reserves the right to make changes without prior notice to improve the product.	Product number: VSM-CAB-MINE1-100	Drawing number: VSM—DWG—MINE1—100	Sheet: Rev. : A4 1	
1	2		3		



ROSYSTM	© Copyright VibroSystM inc.2023 VibroSystM inc. reserves the right to make changes without prior	Product number:	CHAINS LOCATIONS & INSTALLATION D Drawing number:	Sheet: Rev. :	4	DOM N AIR G	
	notice to improve the product.	VSM-CAB-MINE1-100	VSM-DWG-MINE1-100	B1 1			
1	2		3				

VSM-DWG-MINE1-100-B1-1.DWG

Ą	MOLINO SAG 1 AG14 AG13 AG24 AG23	SENSOR DETAILSSENSOR #MESURING AXISREAL ANGLESLOT #VIEWAG13RADIAL531BAG14RADIAL4388BAG15RADIAL85152BAG16RADIAL95166BAG17RADIAL133223BAG18RADIAL175287BAG19RADIAL185301BAG20RADIAL223358BAG21RADIAL265422BAG22RADIAL275436BAG23RADIAL313493B	
3		AG24     RADIAL     355     17     B	
)	AG17 AG18 AG19 AG19 AG19 AG19 AG19 AG19 AG19 AG19	POLE MAGNETIC CORE EXTREMITIES POLE FACE VM-GMD 1-2cm - VM-GMD LOCATION SIDE VIEW	

VIBROSYSTM		Section: B MEASURING CI Product number: VSM-CAB-MINE1-100	HAINS LOCATIONS & INSTALLATION E Drawing number: VSM-DWG-MINE1-100	DETAILS Sheet: Rev. : B2 1	4	DOM MON GAP &
1	2		3			

1

А

В

С

D

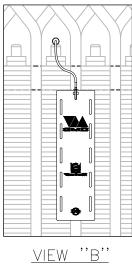
3

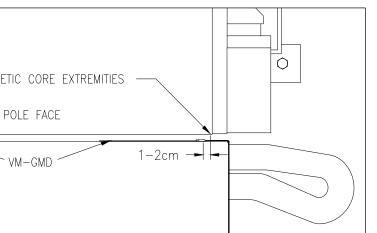
А

В

С

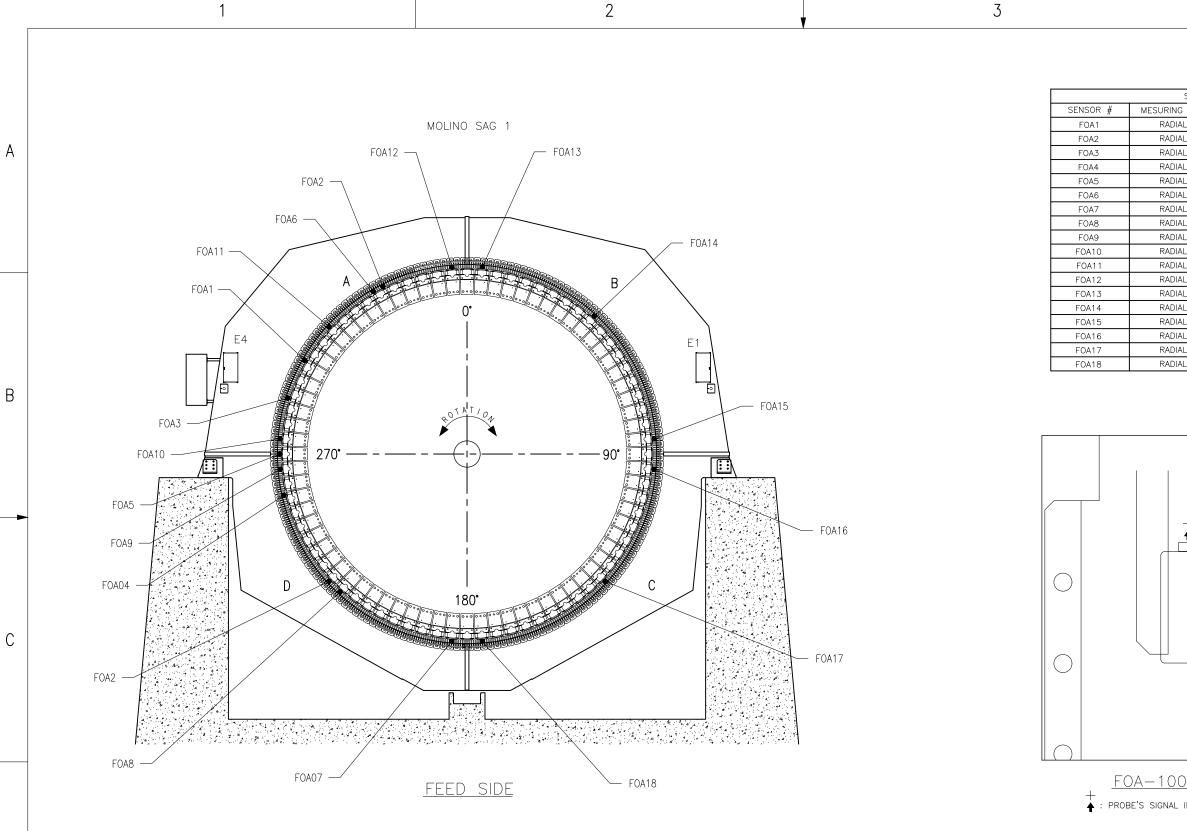
D





IONITORING SYSTEM FOR PROJECT: YOUR MINING SITE & MAGNETIC FLUX SENSORS DETAILS DISCHARGE SIDE





1

	C Copyright VibroSystM inc.2023	Section: B MEASURING CH	HAINS LOCATIONS & INSTALLATION D	ETAILS	Title:	ZOOM N
	VibroSystM inc. reserves the right to make changes without prior notice to improve the product.	Product number: VSM-CAB-MINE1-100	Drawing number: VSM-DWG-MINE1-100	Sheet: Rev. : B3 1		
1	2		.3			

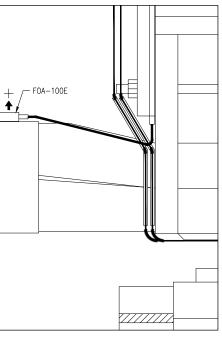
А

В

С

D

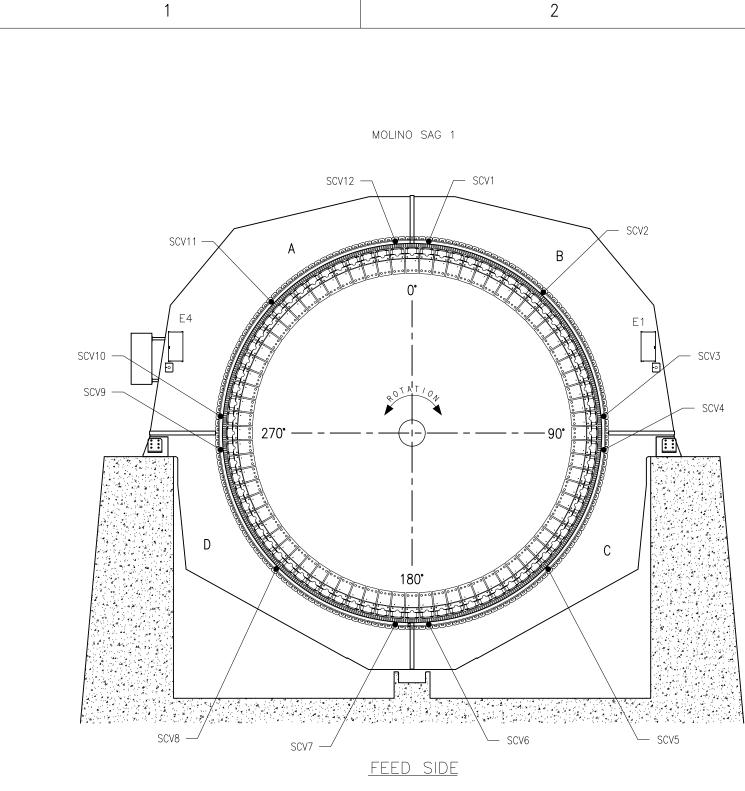
SENSOR	SENSOR DETAILS							
g axis	SLOT #	SLOT ANGLE	BAR #					
4L	474	300-LINE	477U					
4L	365	227-LINE	368V					
4L	455	287-LINE	458W					
۹L	410	257-NEUTRAL	413X					
4L	429	270-NEUTRAL	432Y					
4L	519	330-NEUTRAL	522Z					
4L	301	185	303W					
4L	358	223	361V					
4L	422	265	425V					
4L	436	275	438Z					
۹L	493	313	496Z					
4L	17	355	20V					
4L	31	5	34W					
4L	88	43	91V					
۹L	152	85	155V					
4L	166	95	169W					
4L	223	133	226V					
4L	287	175	290V					



FOA-100E TYPICAL LOCATION

PROBE'S SIGNAL INCREASES WHEN MOVING IN THAT DIRECTION

### MONITORING SYSTEM FOR PROJECT: YOUR MINING SITE END-WINDING (FOA) SENSOR DETAILS



SENSOR DETAILS					
VSM TAG	MESURING AXIS	ANGLE	BETWEEN K	EY BARS #	
SCV1	RADIAL	4	2	3	
SCV2	RADIAL	46	23	24	
SCV3	RADIAL	86	43	44	
SCV4	RADIAL	94	47	48	
SCV5	RADIAL	136	68	69	
SCV6 RADIAL		176	88	89	

SCV7 SCV8 SCV9 SCV10 SCV11 SCV12

3

D	

CADREBH2023re

А

В

С

	© Copyright VibroSystM inc.2023	Section: B MEASURING C	HAINS LOCATIONS & INSTALLATION D	ETAILS	Title:	ZOOM
VIBROSYSTM	VibroSystM inc. reserves the right to make changes without prior notice to improve the product.	Product number: VSM-CAB-MINE1-100	Drawing number: VSM—DWG—MINE1—100	Sheet: Rev. : B4 1		
1			7			

2

3

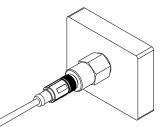
А

В

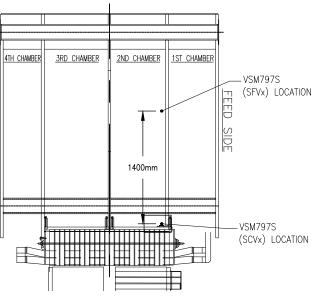
С

D

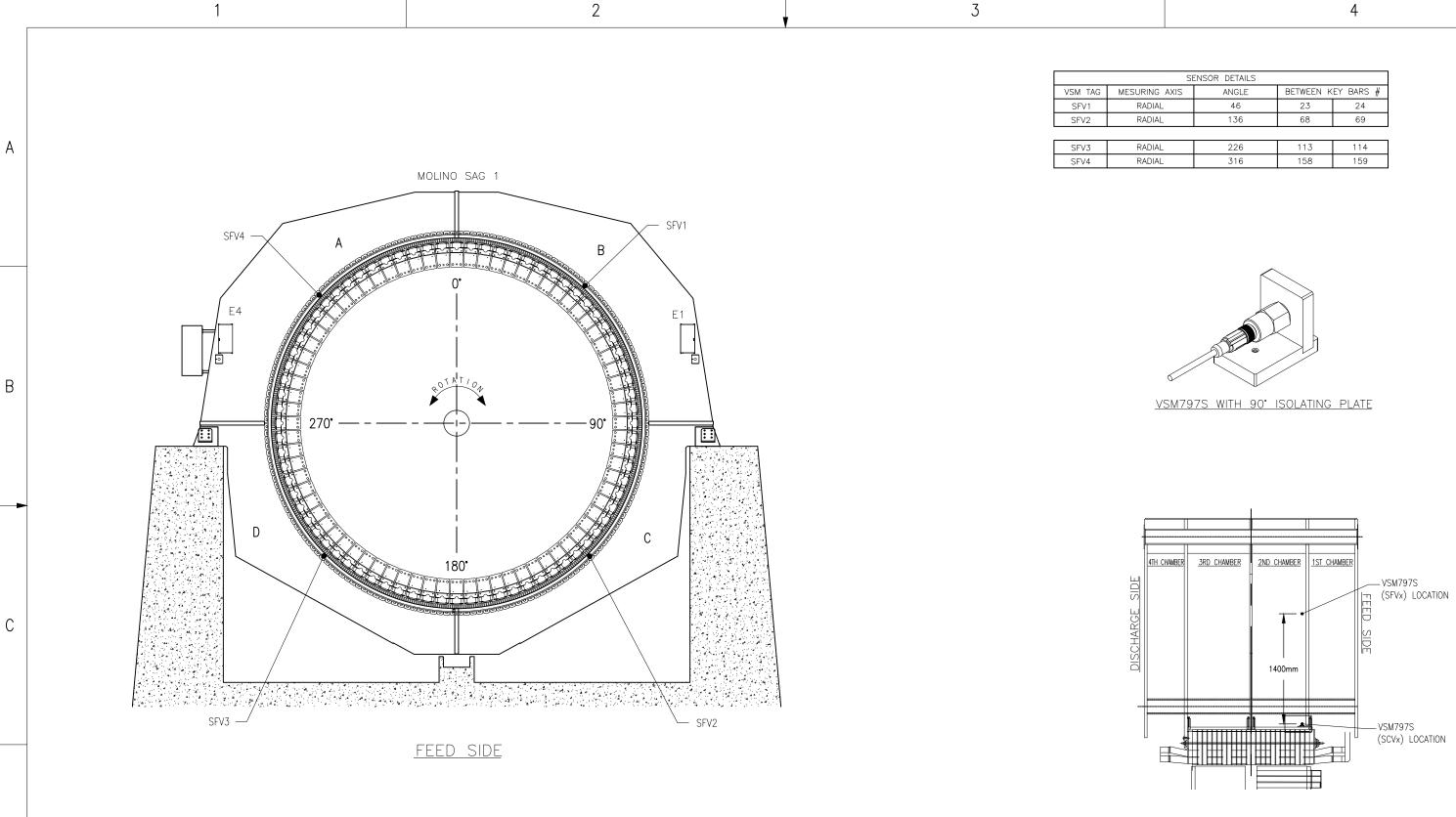
RADIAL	184	92	93
RADIAL	226	113	114
RADIAL	266	133	134
RADIAL	274	137	138
RADIAL	316	158	159
RADIAL	356	178	179



### VSM797S WITH ISOLATING PLATE



## M MONITORING SYSTEM FOR PROJECT: YOUR MINING SITE STATOR CORE SENSORS DETAILS



<b>3revB</b>	

		C Copyright VibroSystM inc.2023	Section: B MEASURING	CHAINS LOCATIONS & INSTALLATION	DETAILS	Title:	ZOOM
VIBROSY	STM	VibroSystM inc. reserves the right to make changes without prior notice to improve the product.	Product number: VSM-CAB-MINE1-100	Drawing number: VSM-DWG-MINE1-100	Sheet: Rev. : B5 1		
1		2		3			

А

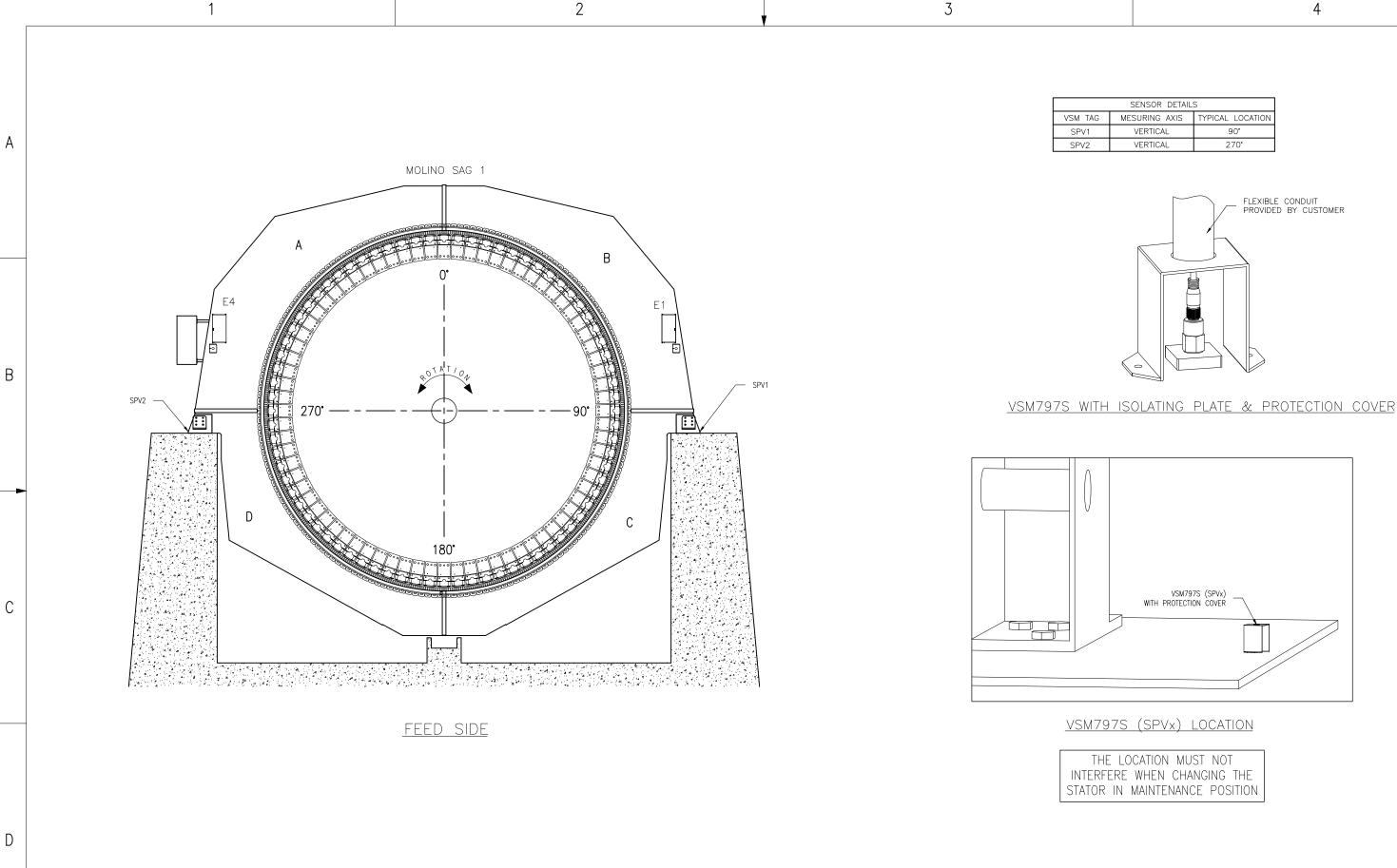
В

С

D

SENSOR DETAILS				
g axis	ANGLE	BETWEEN K	ey bars #	
ΑL	46	23	24	
AL	136	68	69	
ΑL	226	113	114	
AL	316	158	159	

### M MONITORING SYSTEM FOR PROJECT: YOUR MINING SITE STATOR FRAME SENSORS DETAILS



VIDDOCVOTNA	C Copyright VibroSystM inc.2023	Section: B MEASURING C	HAINS LOCATIONS & INSTALLATION D	ETAILS	Title:	ZOOM MON
VIBROSYSTM	VibroSystM inc. reserves the right to make changes without prior notice to improve the product.	Product number: VSM-CAB-MINE1-100	Drawing number: VSM—DWG—MINE1—100	Sheet: Rev. : B6 1		
1	2		3			

3

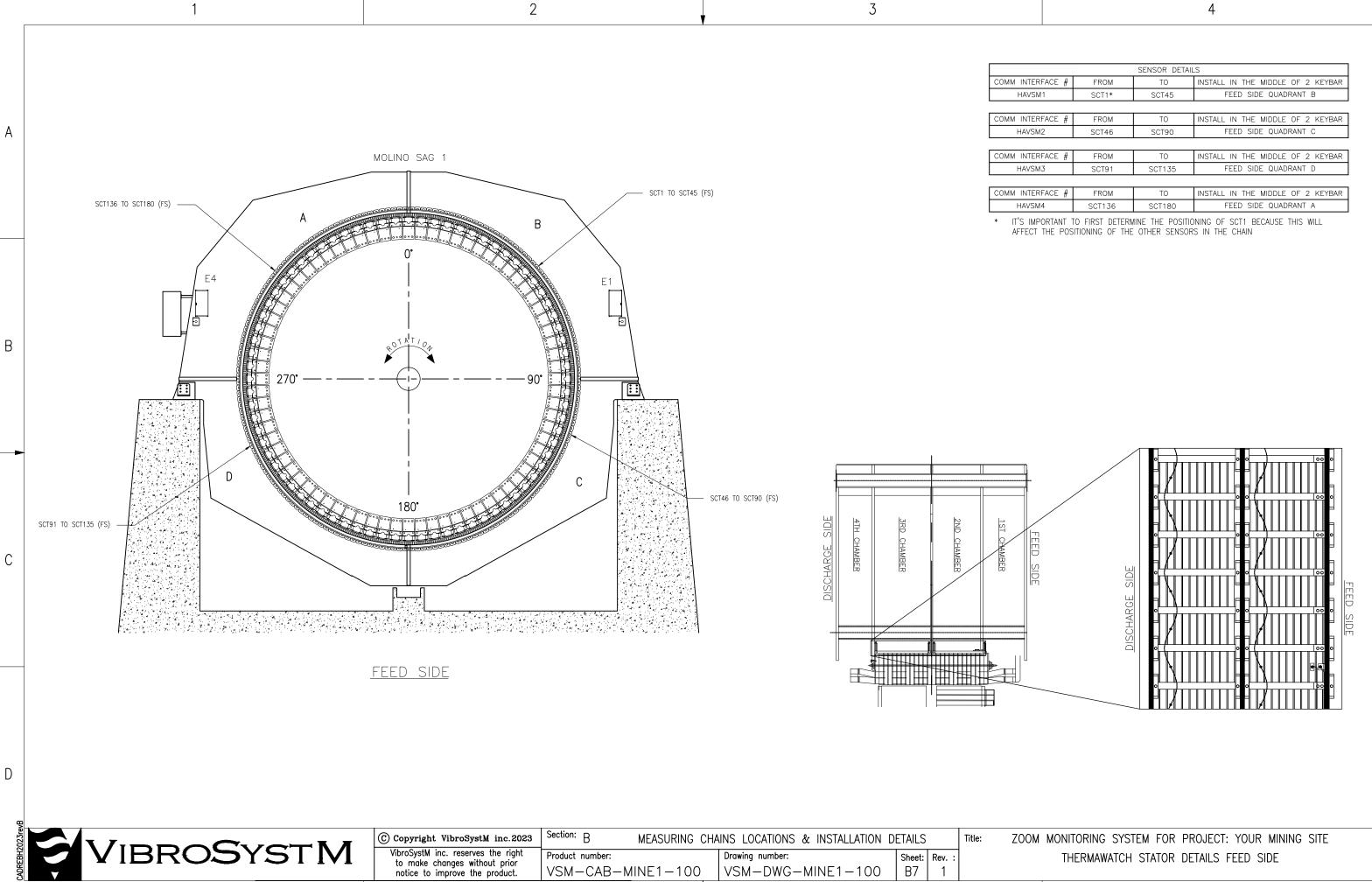
SENSOR DETAILS			
IESURING AXIS	TYPICAL LOCATION		
VERTICAL	90*		
VERTICAL	270°		

IONITORING SYSTEM FOR PROJECT: YOUR MINING SITE SOLE PLATE SENSORS DETAILS

А

В

С



2

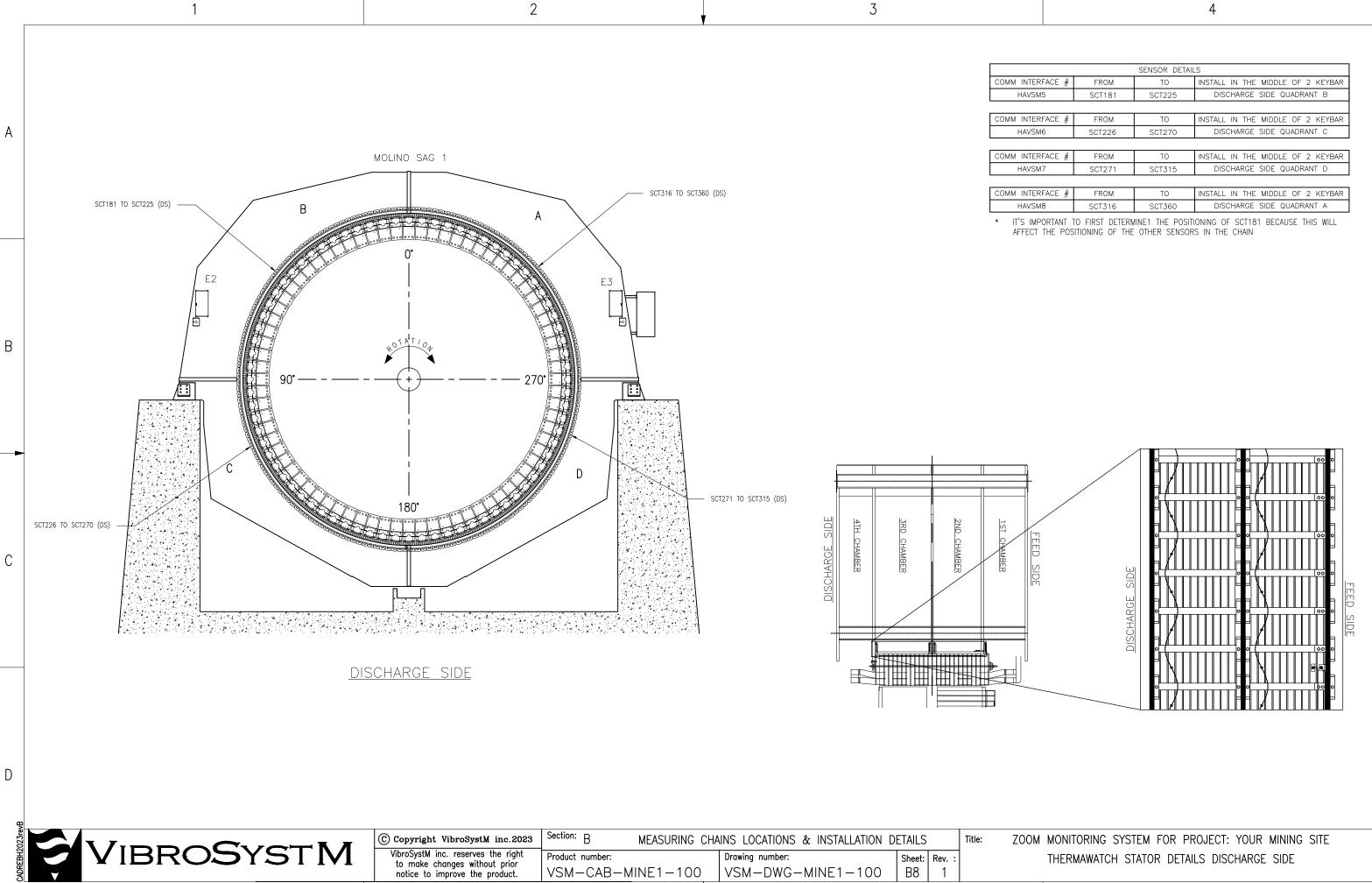
3

		SENSOR DETAIL	S
RFACE #	FROM	то	INSTALL IN THE MIDDLE OF 2 KEYBAR
SM1	SCT1*	SCT45	FEED SIDE QUADRANT B
RFACE #	FROM	ТО	INSTALL IN THE MIDDLE OF 2 KEYBAR
M2	SCT46	SCT90	FEED SIDE QUADRANT C
ERFACE #	FROM	ТО	INSTALL IN THE MIDDLE OF 2 KEYBAR
6M3	SCT91	SCT135	FEED SIDE QUADRANT D
RFACE #	FROM	то	INSTALL IN THE MIDDLE OF 2 KEYBAR
M4	SCT136	SCT180	FEED SIDE QUADRANT A

А

В

С



3

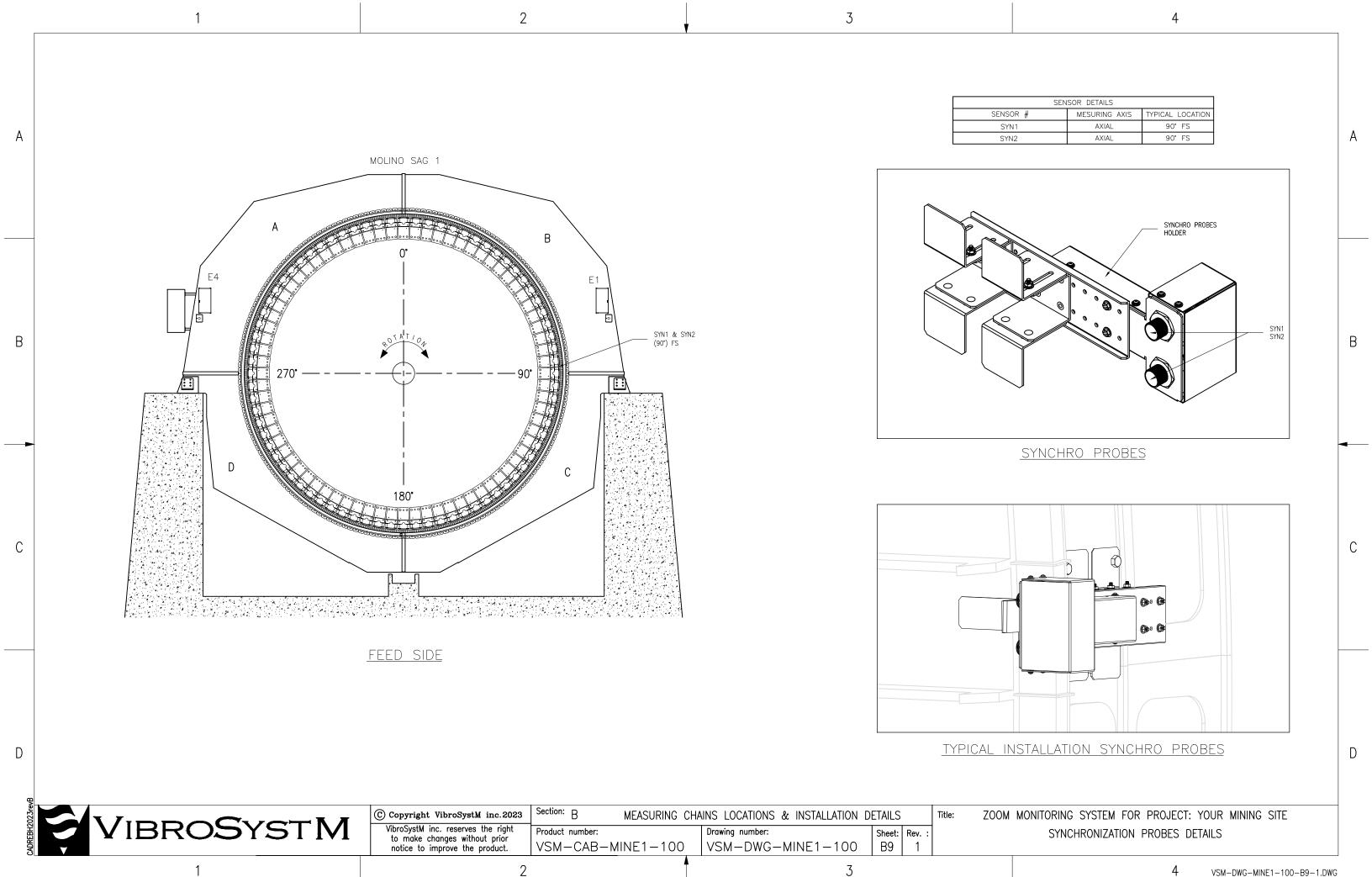
Ι	1
	Г

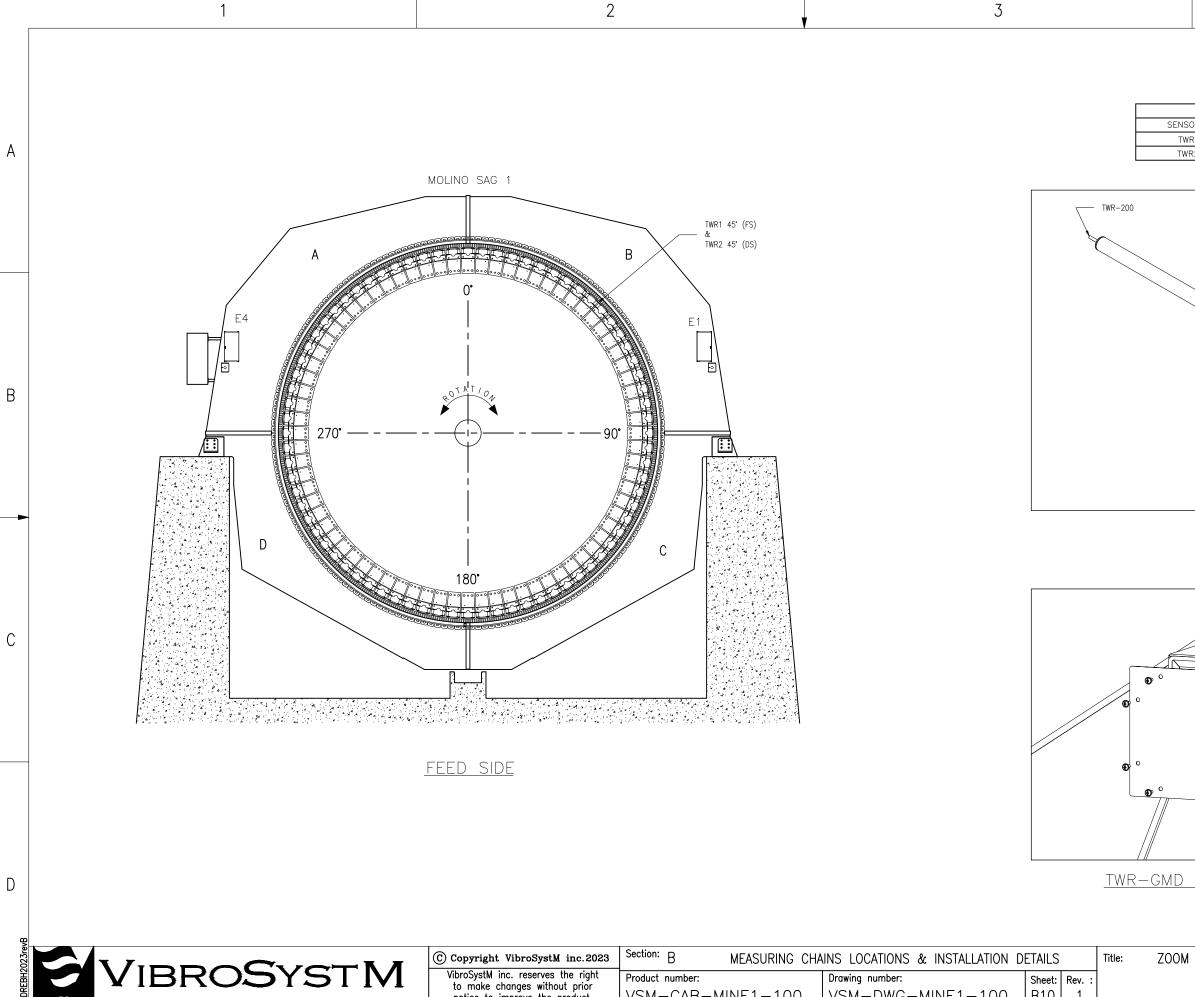
		SENSOR DETAIL	S
RFACE #	FROM	то	INSTALL IN THE MIDDLE OF 2 KEYBAR
M5	SCT181	SCT225	DISCHARGE SIDE QUADRANT B
RFACE #	FROM	ТО	INSTALL IN THE MIDDLE OF 2 KEYBAR
M6	SCT226	SCT270	DISCHARGE SIDE QUADRANT C
RFACE #	FROM	ТО	INSTALL IN THE MIDDLE OF 2 KEYBAR
М7	SCT271	SCT315	DISCHARGE SIDE QUADRANT D
RFACE #	FROM	то	INSTALL IN THE MIDDLE OF 2 KEYBAR
M8	SCT316	SCT360	DISCHARGE SIDE QUADRANT A

А

В

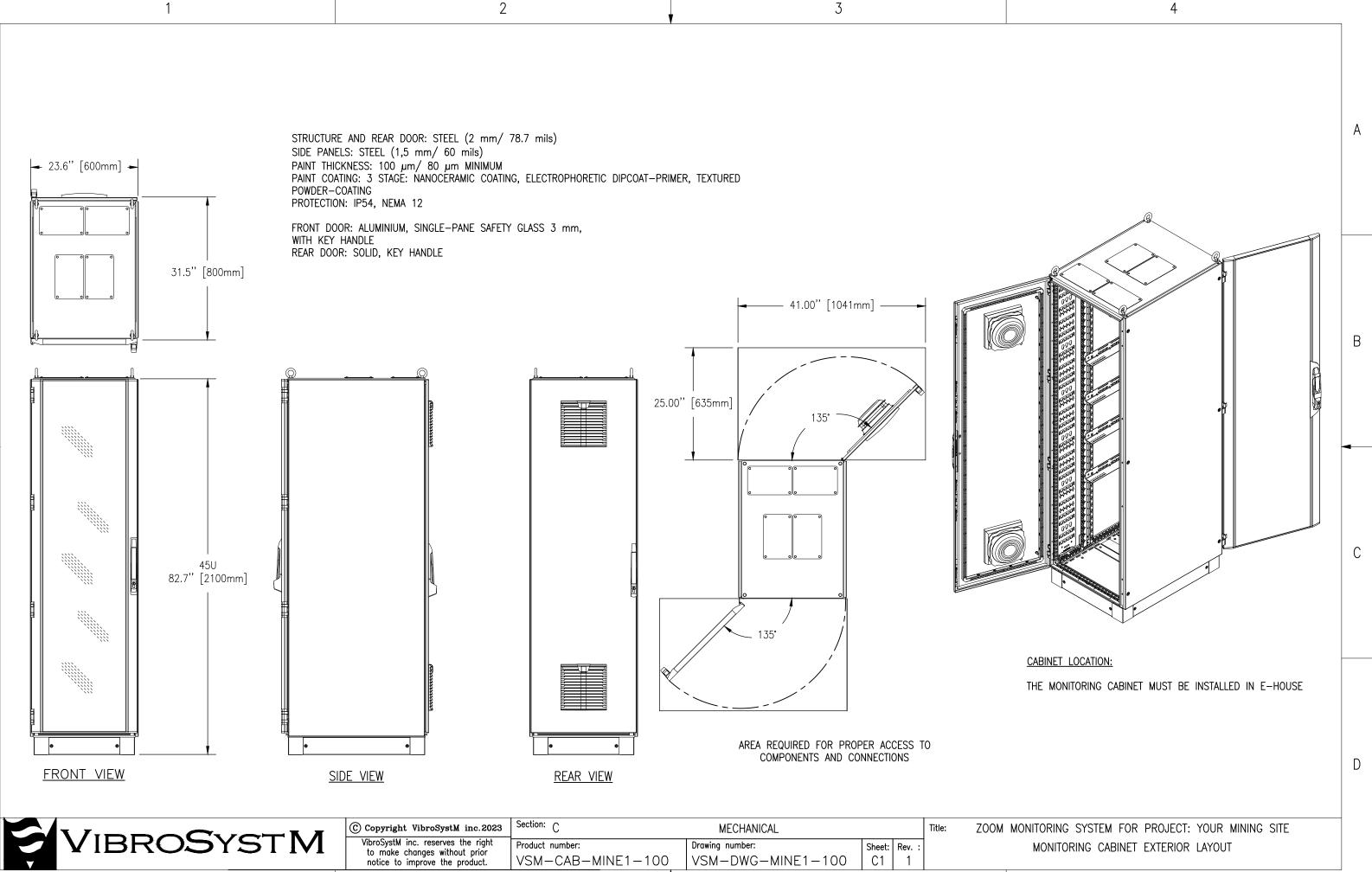
С





0 17 8 7					
VibroSystM inc. reserves the right to make changes without prior	Product number:	Drawing number:	Sheet:	Rev. :	
notice to improve the product.	VSM-CAB-MINE1-100	VSM-DWG-MINE1-100	B10	1	
2		3			

SENSOR DETAILS	
ISOR # MESURING AXIS TYPICAL LOCATION	
WR1 AXIAL 45° FS	А
WR2 AXIAL 45° DS	A
TWR-GMD PROBE	
HOLDER	
0	В
0	0
0	
0 0	
	<b></b>
<u>AXIAL TWR-200</u>	-
	С
	C
PROBE HOLDER FOR TWR-200	D
M MONITORING SYSTEM FOR PROJECT: YOUR MINING SITE	
THERMAWATCH ROTOR AXIAL DETAILS	



В

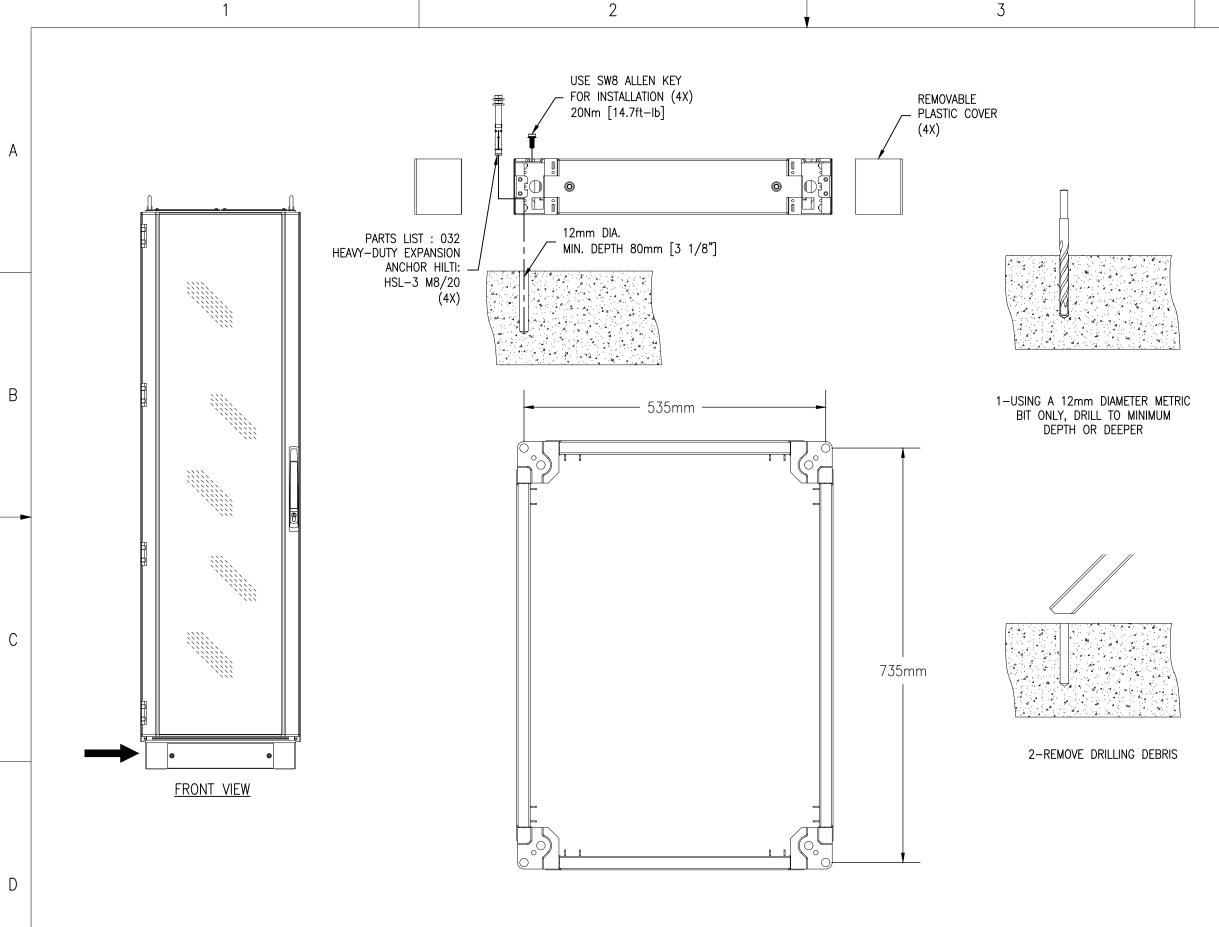
С

D

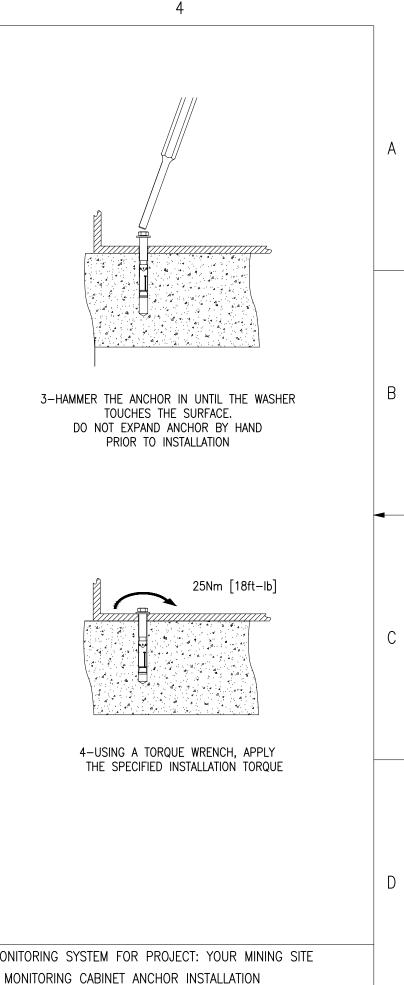
2

2

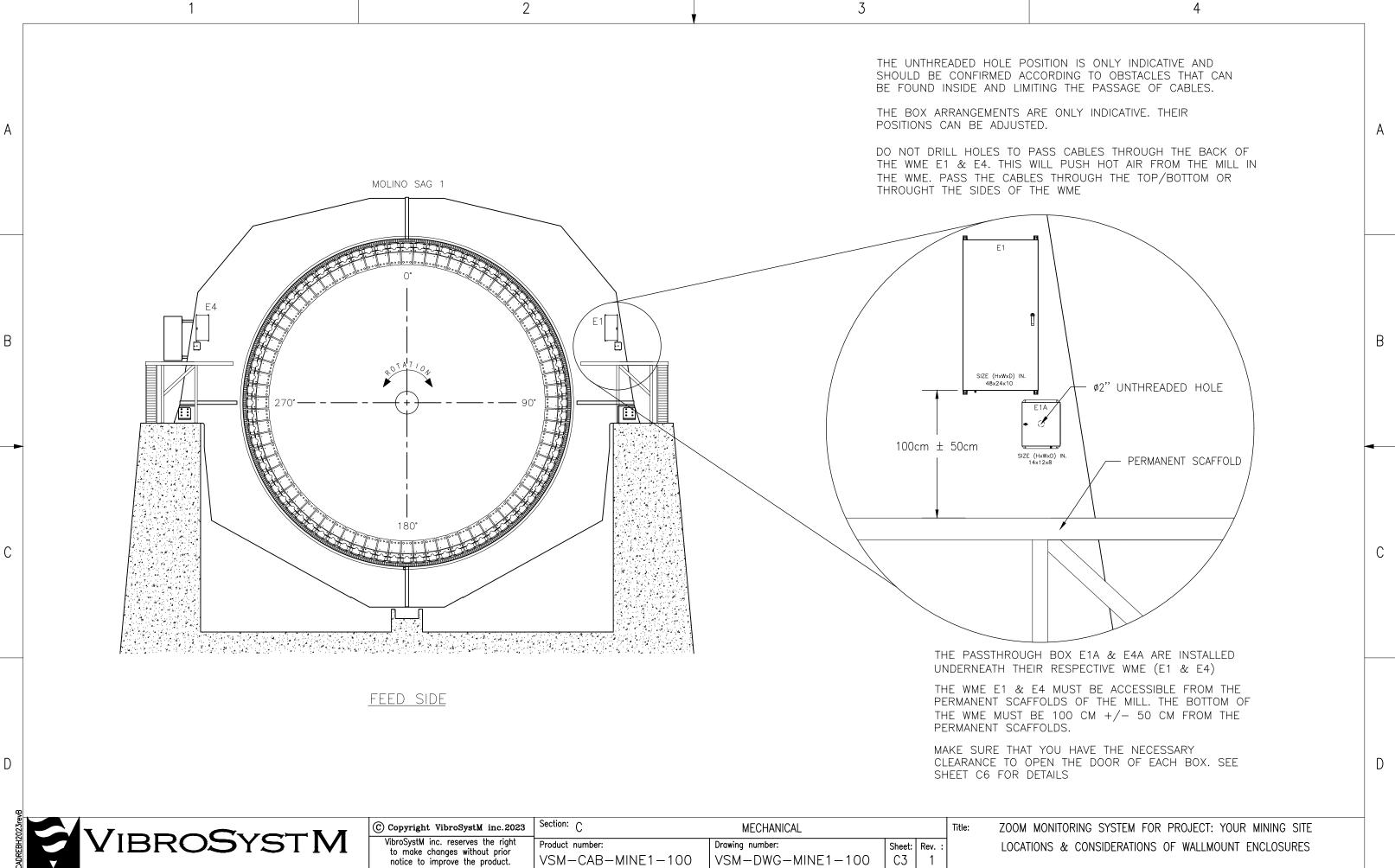
3



	© Copyright VibroSystM inc.2023	Section: C	MECHANICAL		Title:	ZOOM MON
VIBROSYSTM	VibroSystM inc. reserves the right to make changes without prior notice to improve the product.	Product number: VSM-CAB-MINE1-100	Drawing number: VSM—DWG—MINE1—100	Sheet: Rev. : C2 1		М
1	2		3			



VSM-DWG-MINE1-100-C2-1.DWG



VSM-CAB-MINE1-100

2

1

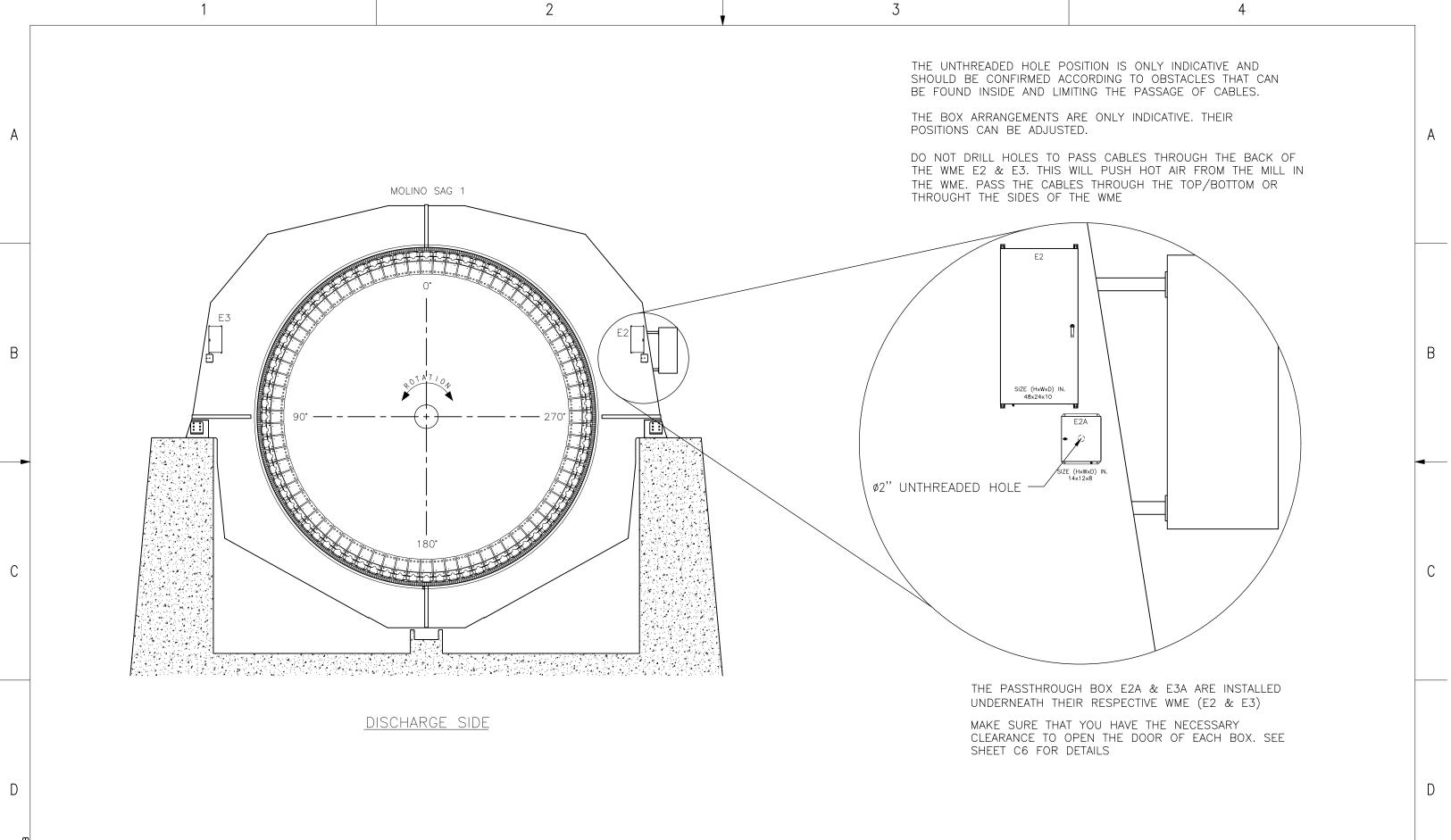
3

С3

1

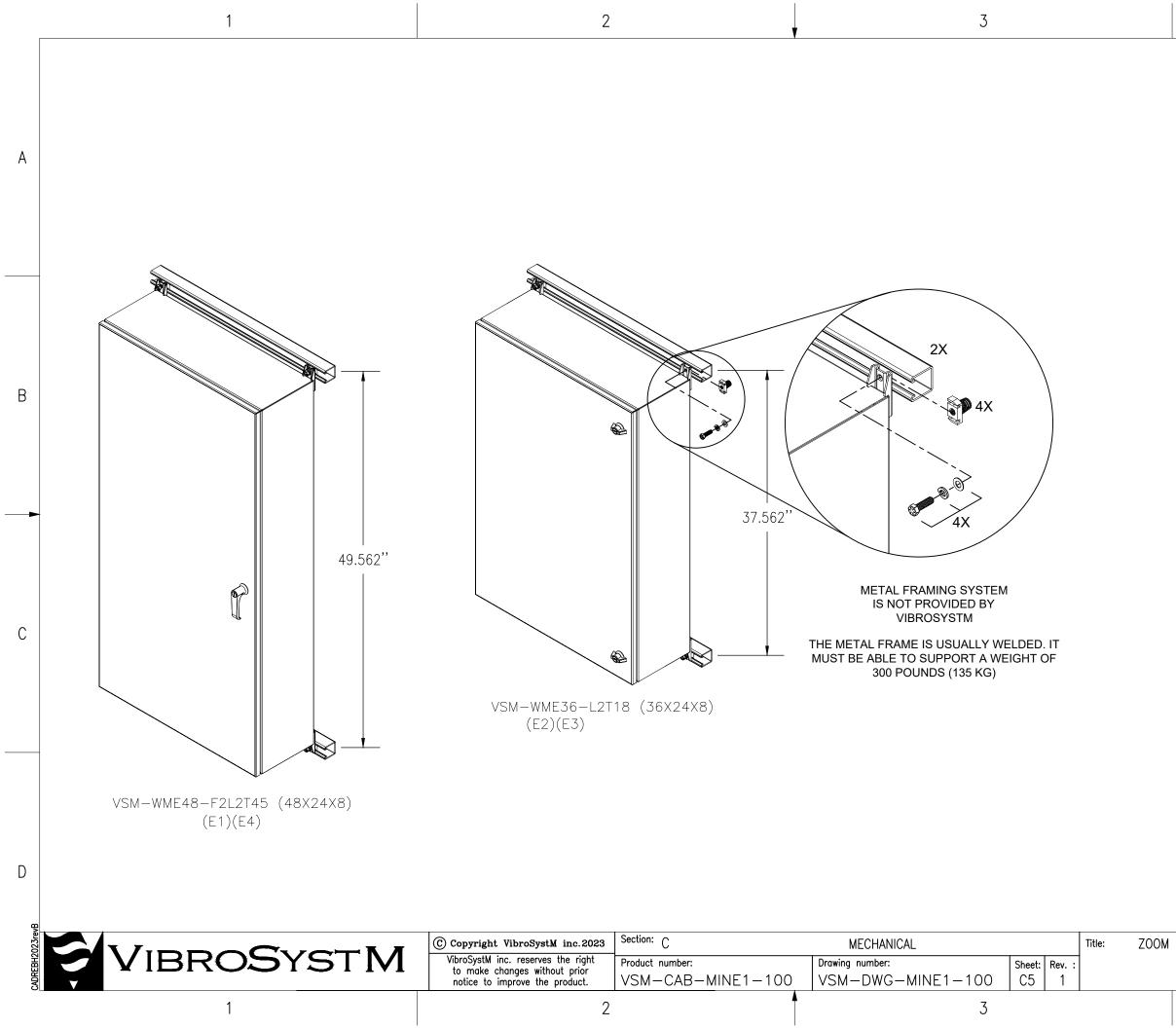
VSM-DWG-MINE1-100

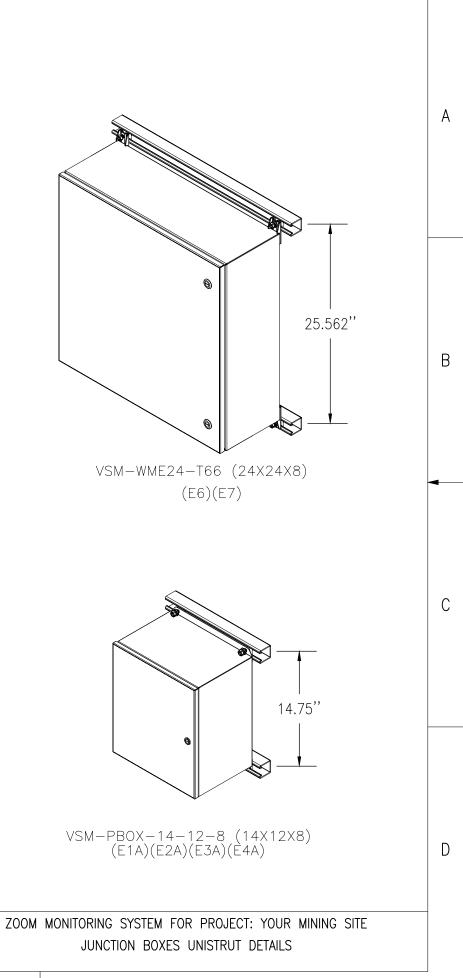
LOCATIONS & CONSIDERATIONS OF WALLMOUNT ENCLOSURES

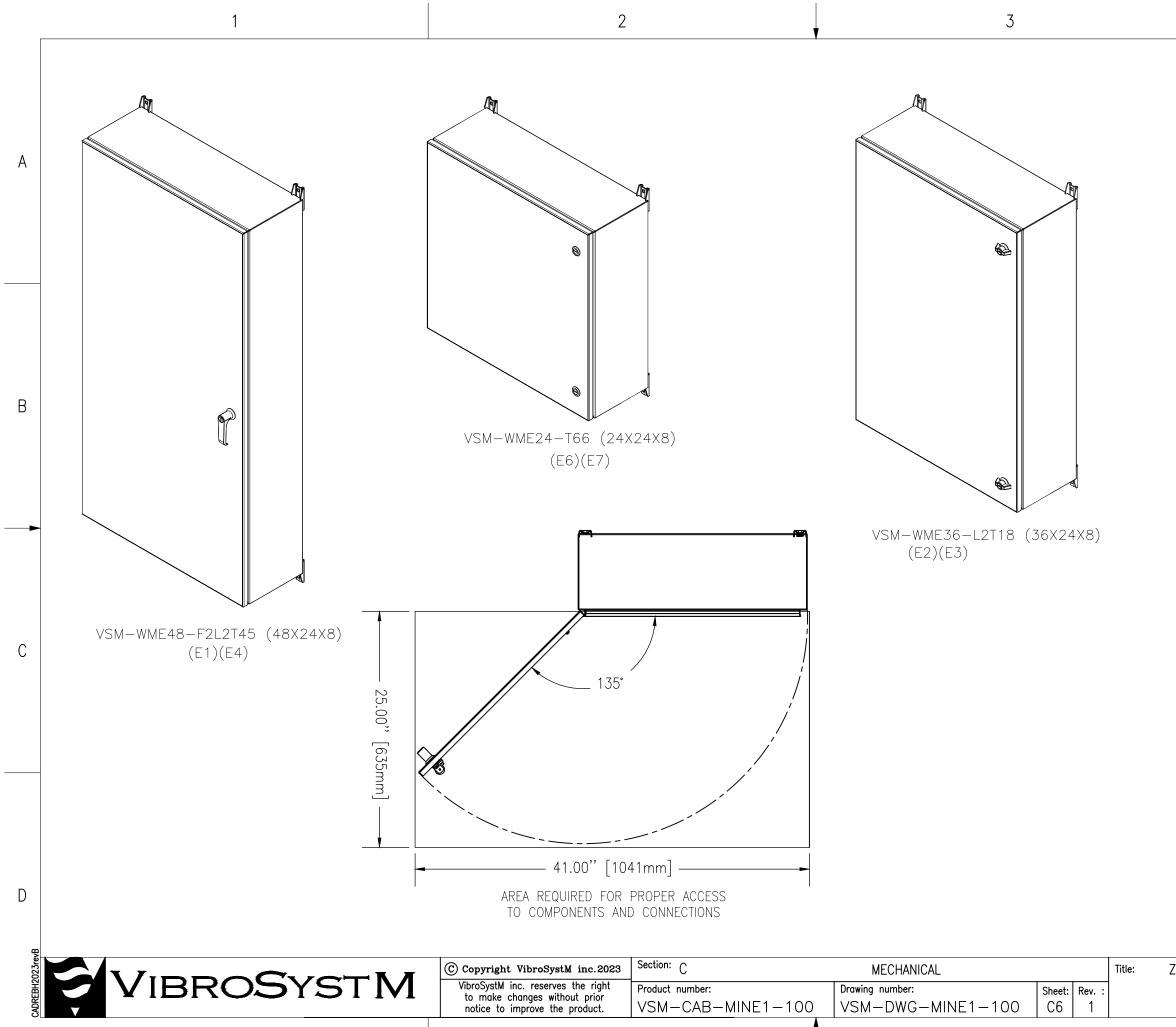


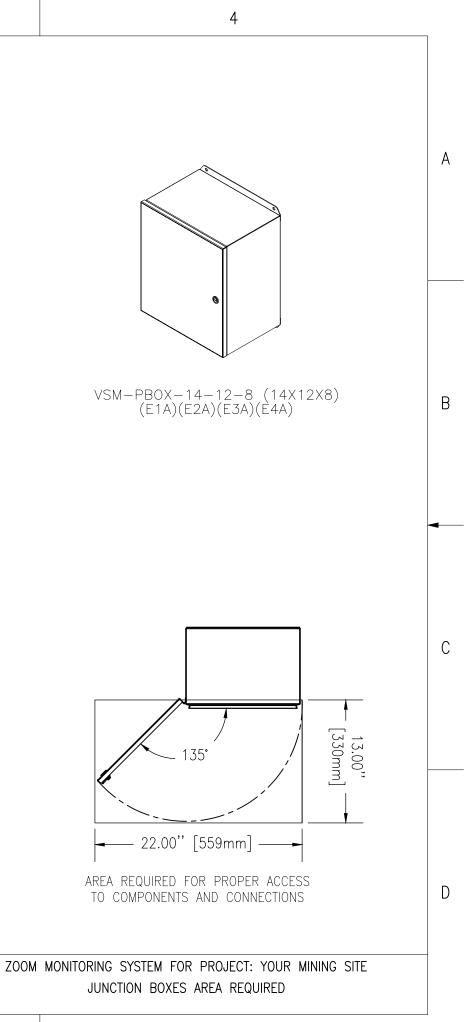
	C Copyright VibroSystM inc.2023	Section: C	MECHANICAL		Title:	ZOOM I	М
VIBROSYSTM	VibroSystM inc. reserves the right to make changes without prior notice to improve the product.	Product number: VSM-CAB-MINE1-100	Drawing number: VSM—DWG—MINE1—100	Sheet: Rev. : C4 1		LOCATIO	0
1	·						_

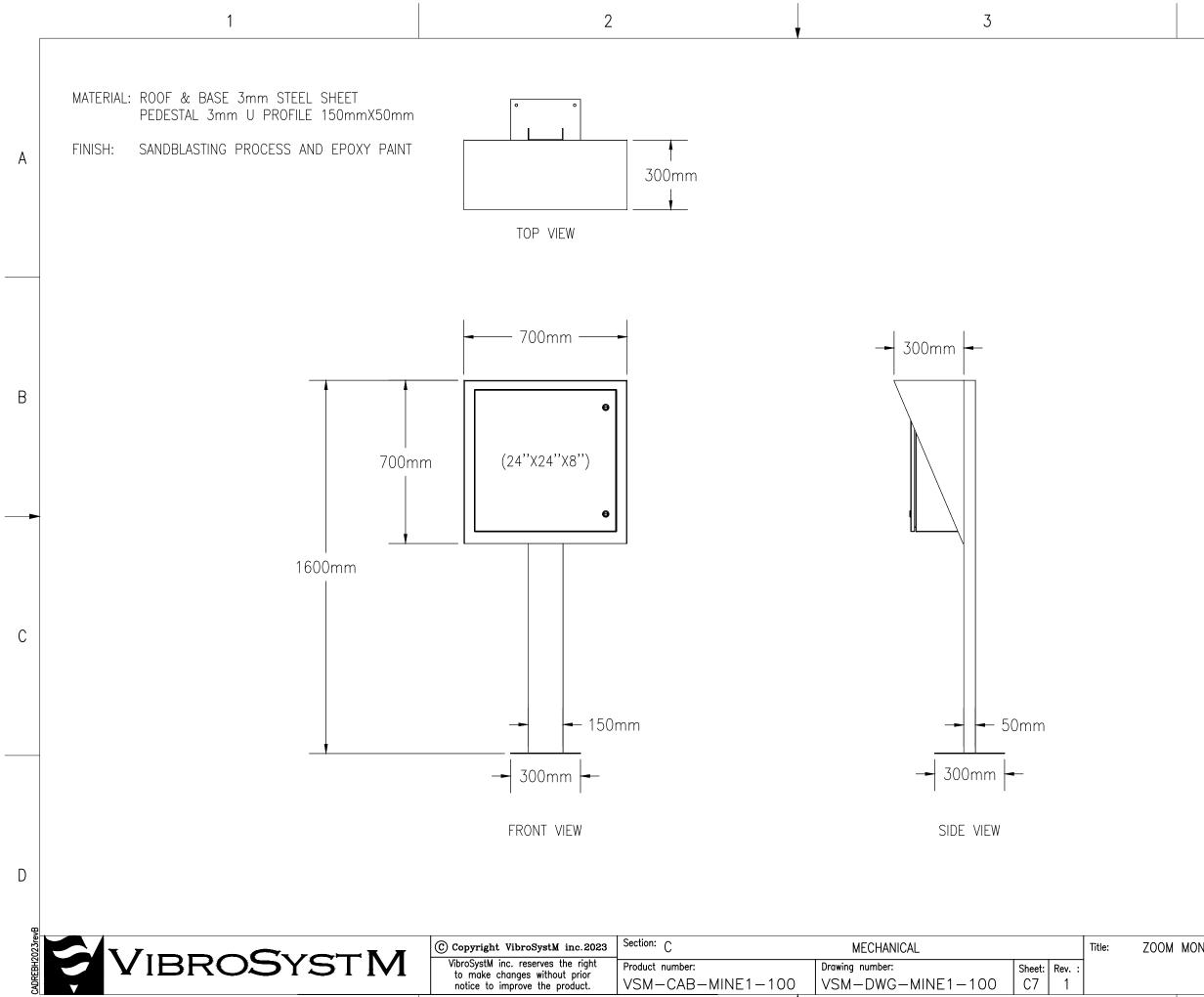
MONITORING SYSTEM FOR PROJECT: YOUR MINING SITE TIONS & CONSIDERATIONS OF WALLMOUNT ENCLOSURES

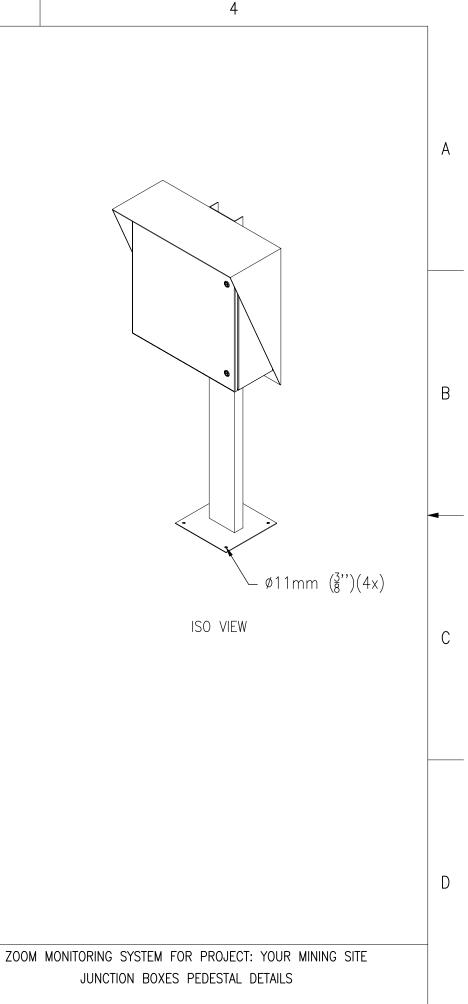


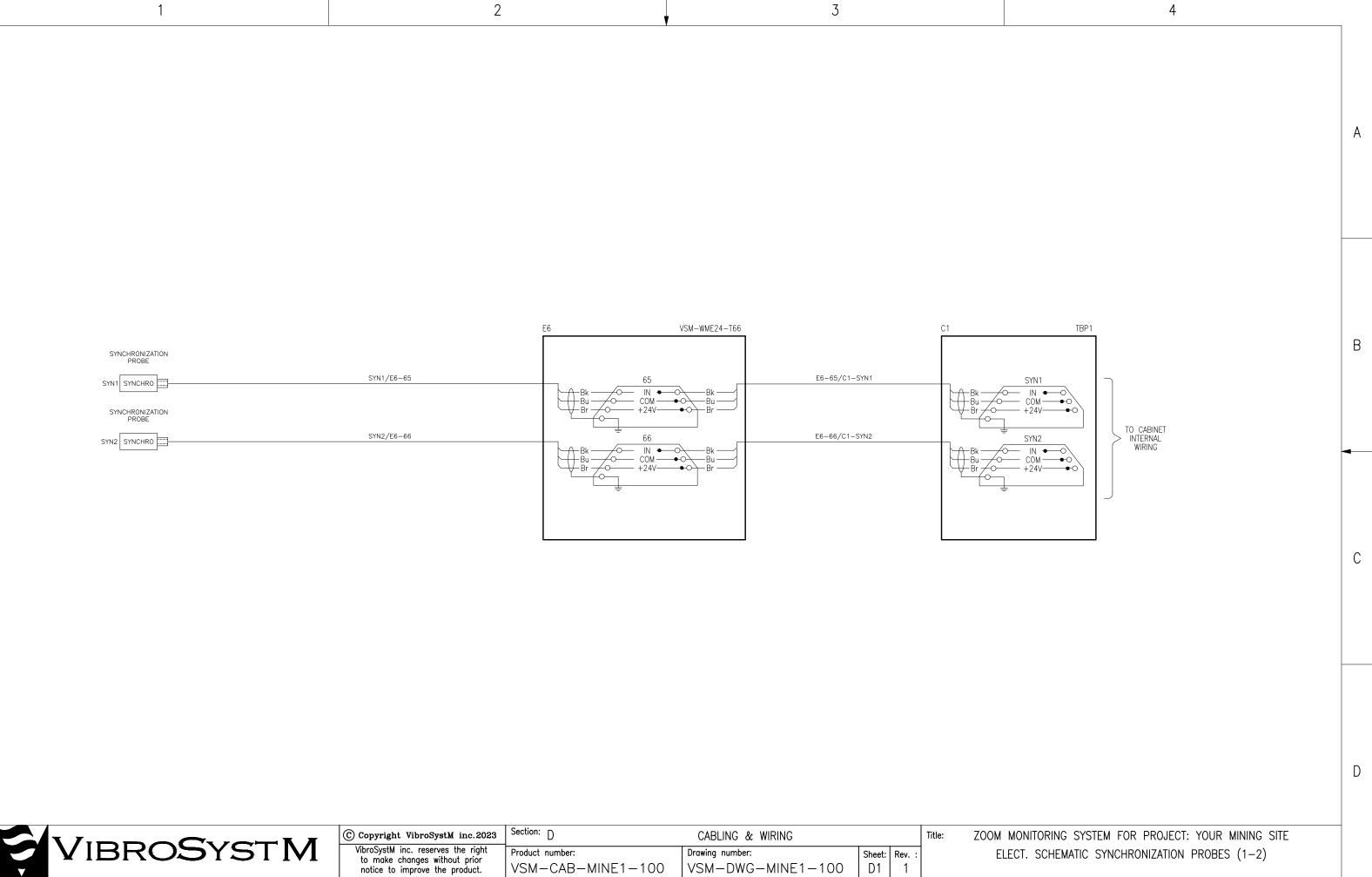










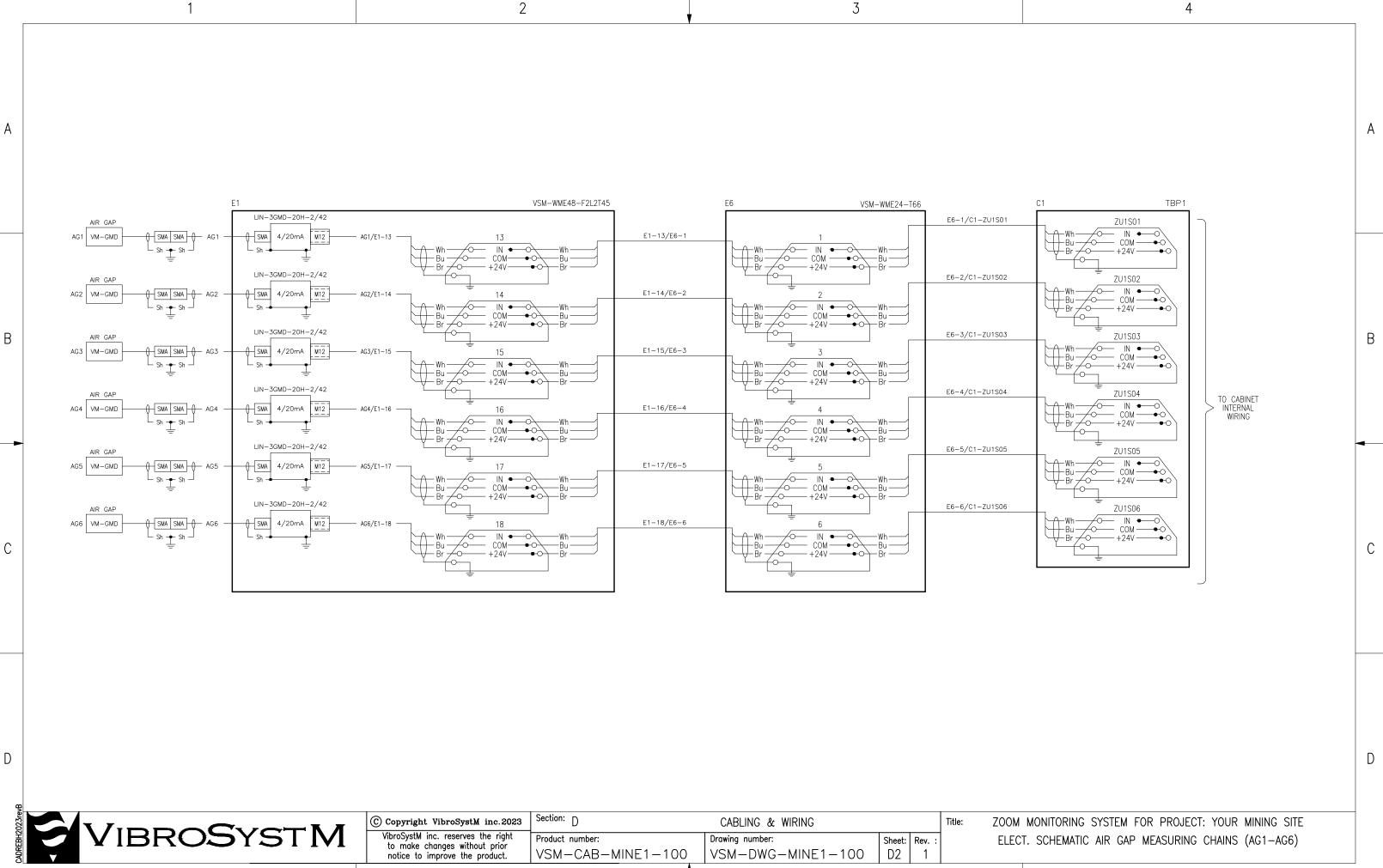


А

В

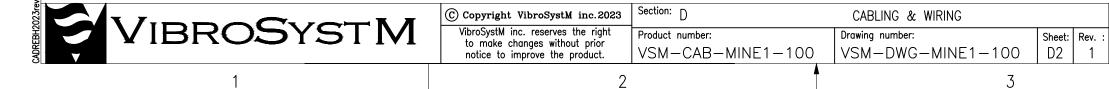
С

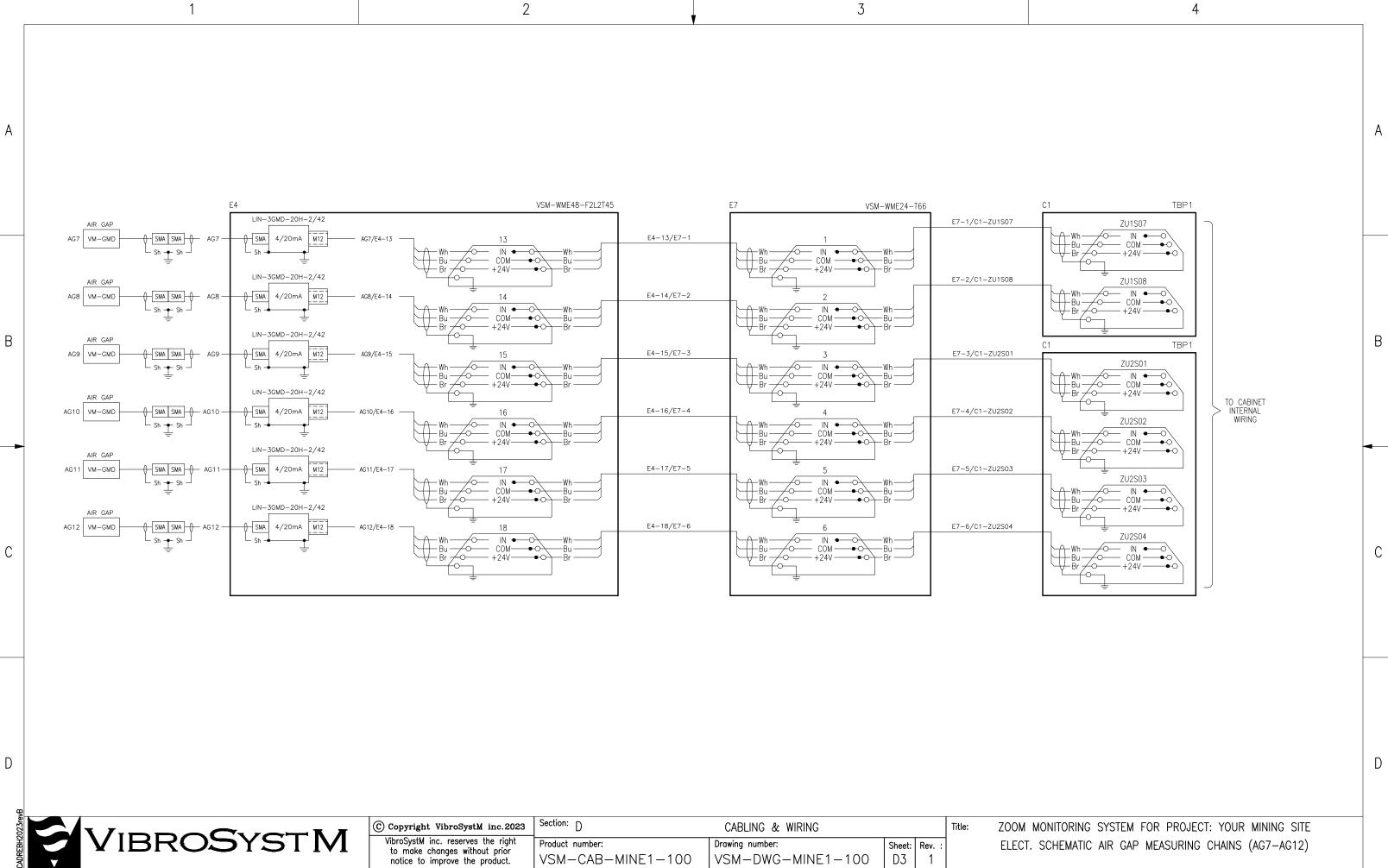
	© Copyright VibroSystM inc.2023	Section: D	CABLING & WIRING		Title:	ZOOM M
	VibroSystM inc. reserves the right to make changes without prior notice to improve the product.	Product number: VSM-CAB-MINE1-100	Drawing number: VSM—DWG—MINE1—100	Sheet: Rev. : D1 1		ELE
1	2		3			



С

А

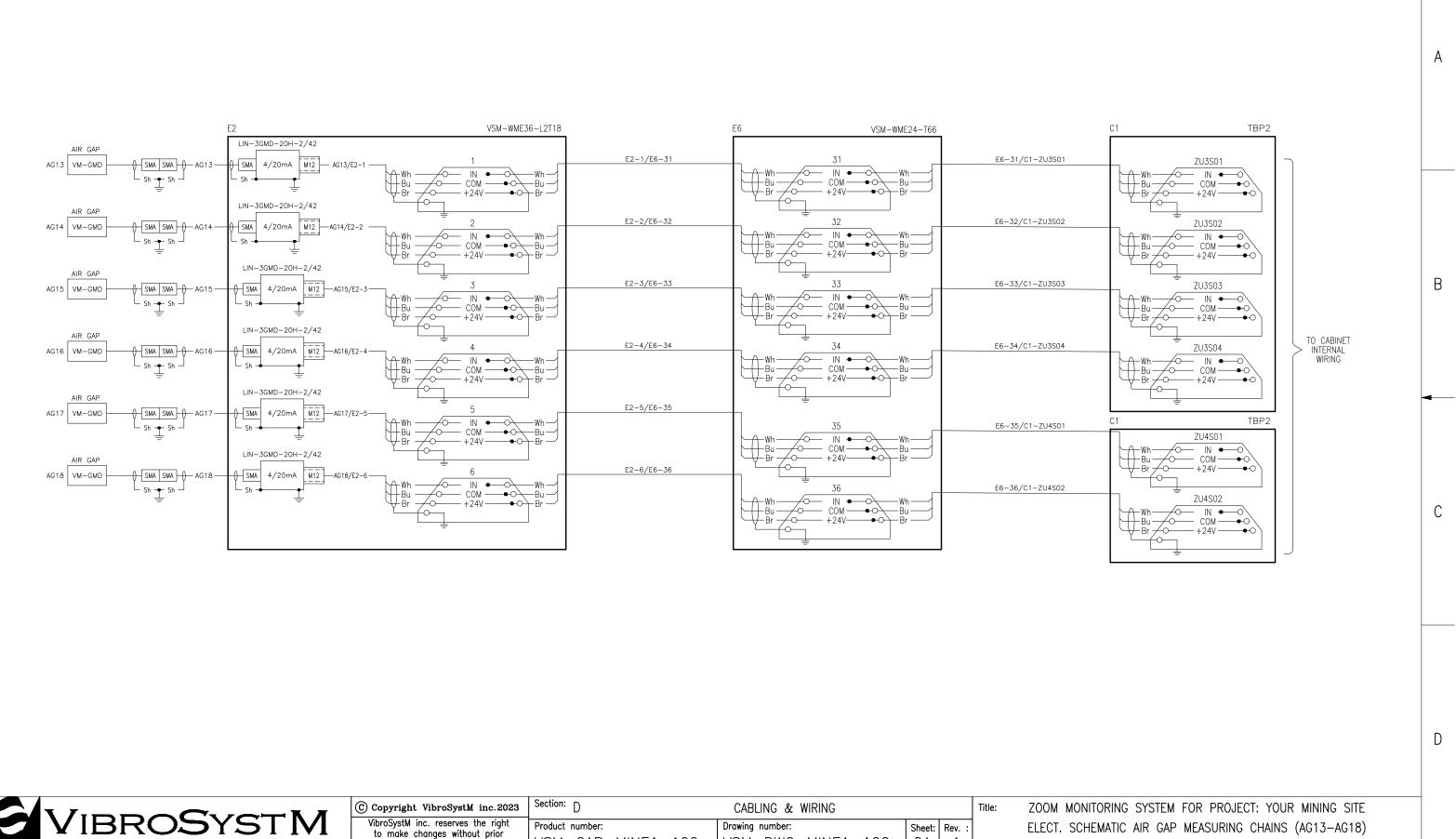




D	

023rev		C Copyright VibroSystM inc.2023	Section: D	CABLING & WIRING		Title:	ZOOM	N
<b>CADREBH2</b>	VIBROSYSTM	to make changes without prior	Product number: VSM-CAB-MINE1-100	Drawing number: VSM—DWG—MINE1—100	Sheet: Rev. : D3 1		ELECT.	•
	1	2		3				

VSM-DWG-MINE1-100-D3-1.DWG



А

В

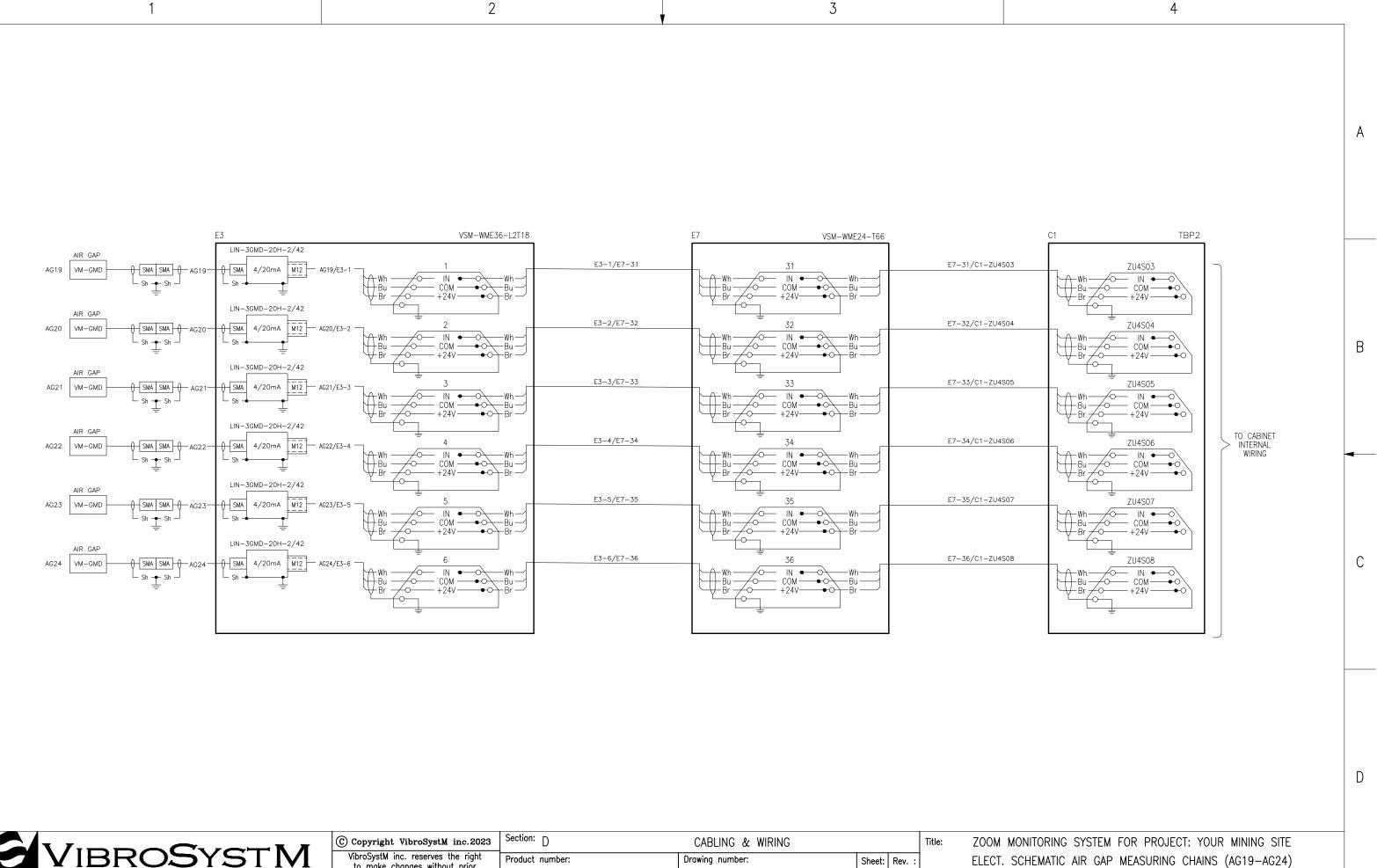
С

1

	C Copyright VibroSystM inc.2023	Section: D	CABLING & WIRING		Title:	ZOOM
VIBROSYSTIM	VibroSystM inc. reserves the right to make changes without prior notice to improve the product.	Product number: VSM-CAB-MINE1-100	Drawing number: VSM—DWG—MINE1—100	Sheet: Rev. : D4 1		ELECT.
1	2	A	3			

2

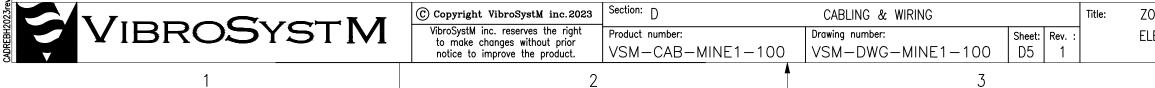
3



А

В

С



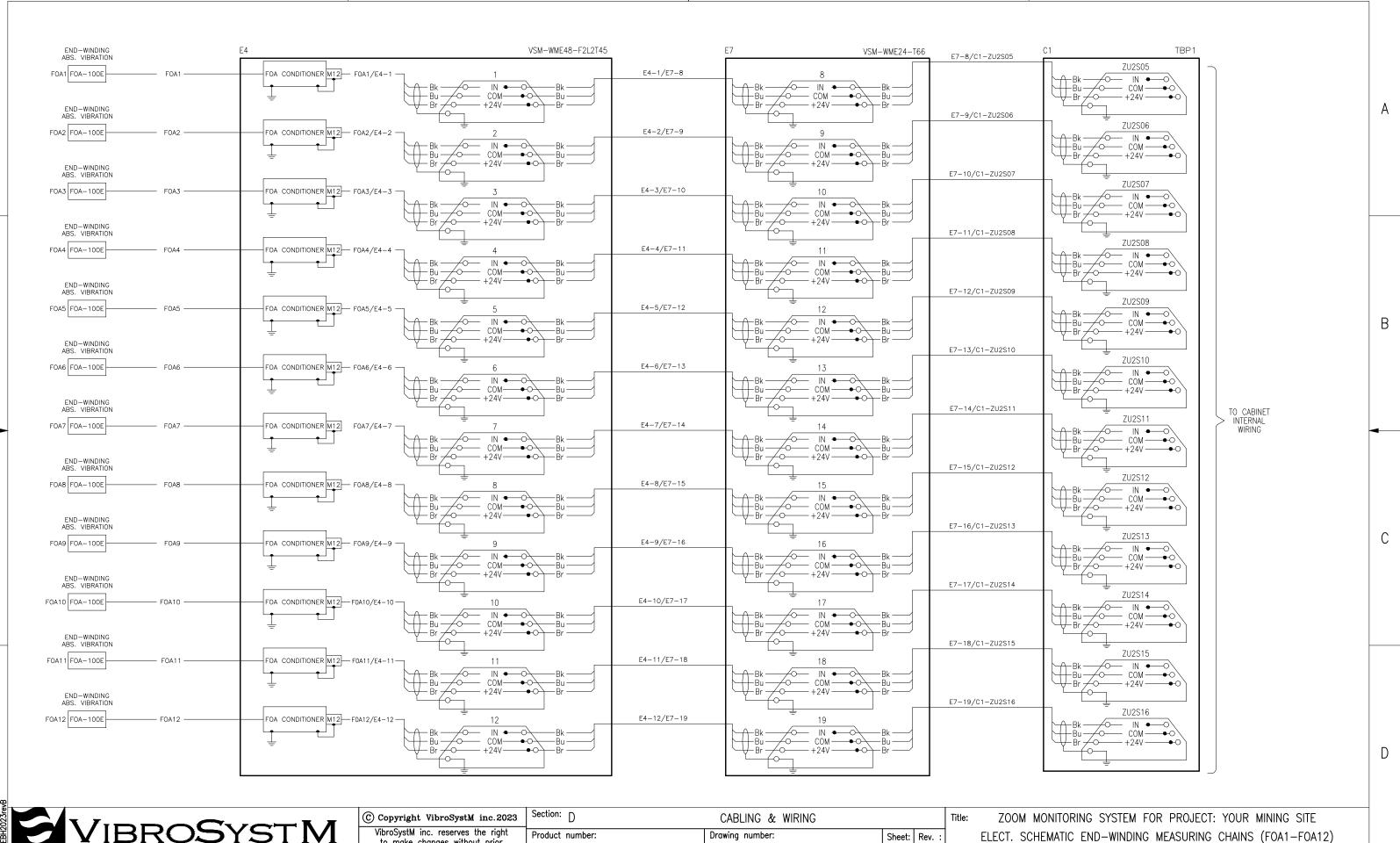
VSM-DWG-MINE1-100-D5-1.DWG

А

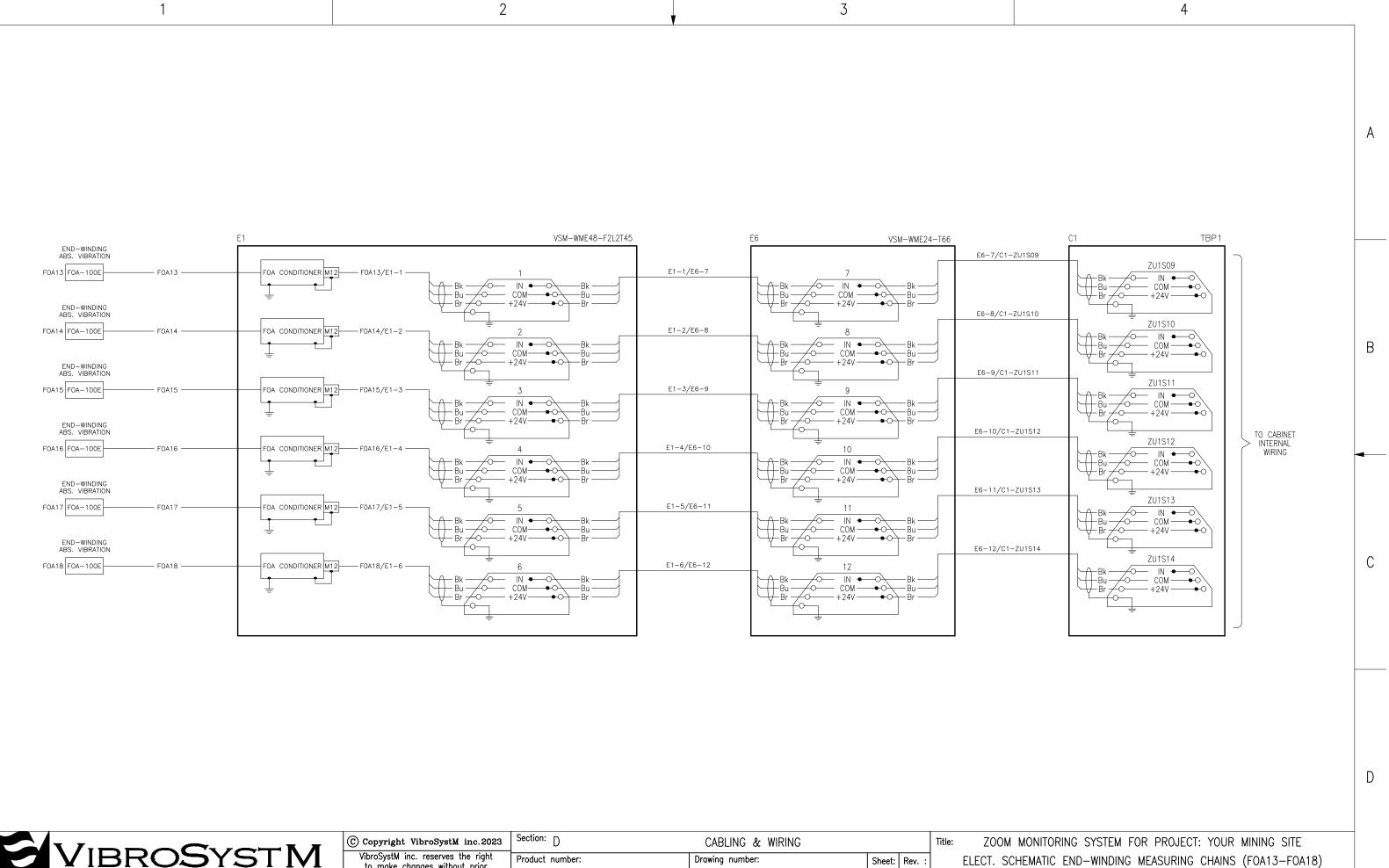
В

С

D



	C Copyright VibroSystM inc.2023	Section: D	CABLING & WIRING			Title:	ZOOM MO
VIBROSYSTIM	VibroSystM inc. reserves the right to make changes without prior notice to improve the product.	Product number: VSM-CAB-MINE1-100	Drawing number: VSM-DWG-MINE1-100	Sheet: D6	Rev. : 1		ELECT. SCHE
1	2		3				



D	

В

С

VIBROSYSTM	© Copyright VibroSystM inc. 2023 VibroSystM inc. reserves the right to make changes without prior notice to improve the product.	Se Pro
1	2	

r	C Copyright VibroSystM inc.2023	Section: D	CABLING & WIRING			Title:	ZO	лом мо
	VibroSystM inc. reserves the right to make changes without prior	Product number:	Drawing number:	Sheet:	Rev. :	]	ELECT.	SCHEM/
_	notice to improve the product.	VSM-CAB-MINE1-100	VSM-DWG-MINE1-100	D7	1			

VSM-DWG-MINE1-100-D7-1.DWG

1		2	3
		E6 VSM-WME24-T	
STATOR CORE ABS. VIB.		E6 VSM-WME24-T	E6-15/C1-ZU3S05
SCV1 VSM797S M12	SCV1/E6-15		
STATOR CORE ABS. VIB.		$\begin{array}{c} & & & \\ & & & & \\ & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & &$	E6-16/C1-ZU3S06
ABS. VIB. SCV2 VSM797S <u>M12</u>	SCV2/E6-16		
//isolating plate//		$ \begin{array}{c} & & & \\ & $	
STATOR CORE ABS. VIB. SCV3 VSM797S M12	SCV3/E6-17		E6-17/C1-ZU3S07
		$ \begin{array}{c c}  & Bk & O & IN \bullet O \\  & Bu & O & COM \bullet O \\  & Bu & O & +24V \bullet O \end{array} $	
STATOR CORE ABS. VIB.	SCV4/E6-18		E6-18/C1-ZU3S08
SCV4 VSM797S M12			
STATOR CORE ABS. VIB.			E6-19/C1-ZU3S09
SCV5 VSM797S M12	SCV5/E6-19	19 → Bk → O Bk → Bk → Bk → Bk → Bk → Bk → B	
STATOR CORE ABS. VIB.			E6-20/C1-ZU3S10
SCV6 VSM797S M12	SCV6/E6-20	= 20 → Bk → O IN ● O Bk → O	
SÓLÁTING PLÁTE			

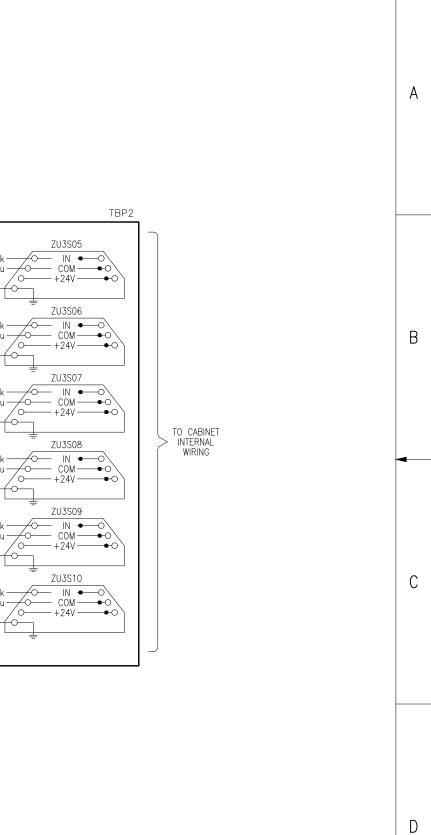
А

В

С

D

	C Copyright VibroSystM inc.2023		CABLING & WIRING		Title:	ZOOM MO
VIBROSYSTM	VibroSystM inc. reserves the right to make changes without prior	Product number:	Drawing number:	Sheet: Rev. :		ELECT. S
	notice to improve the product.	VSM-CAB-MINE1-100	VSM-DWG-MINE1-100	D8 1		
1	2		7			
I	Z		5			



4

MONITORING SYSTEM FOR PROJECT: YOUR MINING SITE SCHEMATIC STATOR CORE MEASURING CHAINS (SCVx)

1	2		3
STATOR CORE ABS. VIB.		E7 VSM-WME24-	-T66 E7-20/C1-ZU3S11
	SCV7/E7-20	20	
STATOR CORE ABS. VIB.		$\begin{array}{c} & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & &$	E7-21/C1-ZU3S12
SCV8 VSM797S M12	SCV8/E7-21		
STATOR CORE ABS. VIB.			E7-22/C1-ZU3S13
SCV9 VSM797S M12	SCV9/E7-22		
STATOR CORE ABS. VIB.	SCV10/E7-23	↓ +24↓ • O ) 	E7-23/C1-ZU3S14
SCV10 VSM797S <u>M12</u>	S0010/L7-23		
STATOR CORE ABS. VIB.	SCV11/E7-24		E7-24/C1-ZU3S15
SCV11 VSM797S <u>M12</u>		$\begin{array}{c c} & & & & & \\ \hline & & & & \\ & & & & \\ & & & &$	
STATOR CORE ABS. VIB.	SCV12/E7-25		E7-25/C1-ZU3S16
SCV12 VSM797S <u>M12</u>		Bk O IN O Bk Bu Bu Bu	
		L	]

В

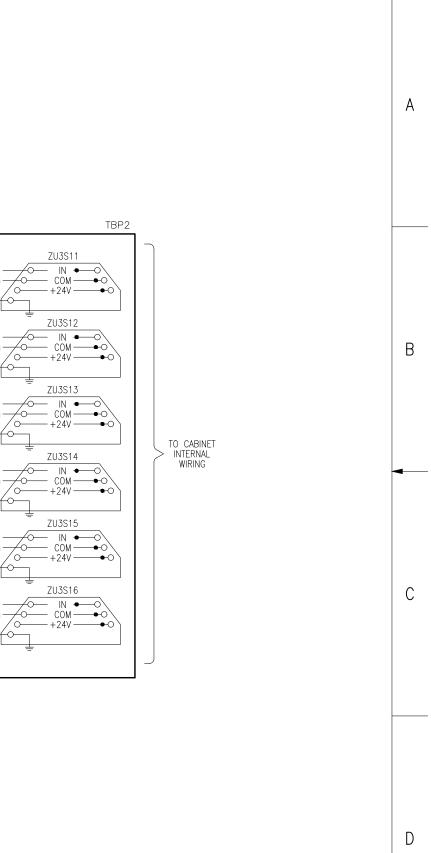
С

D

	Copyright vibrobysem me.sons	Section: D	CABLING & WIRING		CABLING & WIRING			Title:	ZOOM M	IONI
STM	VibroSystM inc. reserves the right to make changes without prior	Product number:	Drawing number:	Sheet:	Rev. :		ELECT.	SCH		
	notice to improve the product.	VSM-CAB-MINE1-100	VSM-DWG-MINE1-100	D9	1					

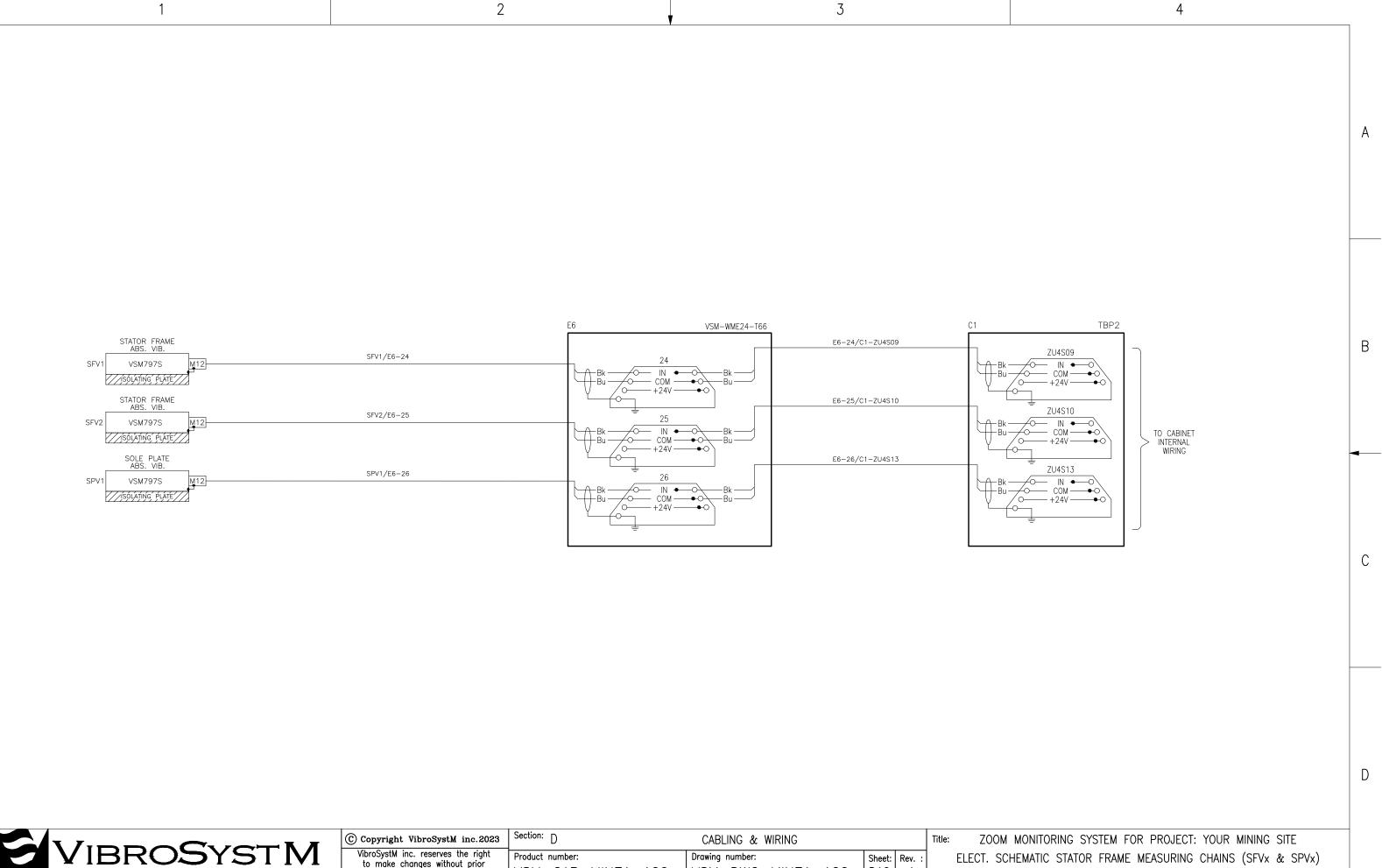
2

3



4

NITORING SYSTEM FOR PROJECT: YOUR MINING SITE SCHEMATIC STATOR CORE MEASURING CHAINS (SCVx)



	C Copyright VibroSystM inc.2023	Section: D	CABLING & WIRING		Title:	ZOOM MC
VIBROSYSTM	VibroSystM inc. reserves the right to make changes without prior notice to improve the product.	Product number: VSM-CAB-MINE1-100	Drawing number: VSM—DWG—MINE1—100	Sheet: Rev. : D10 1		ELECT. SCHEM
1	2		3			

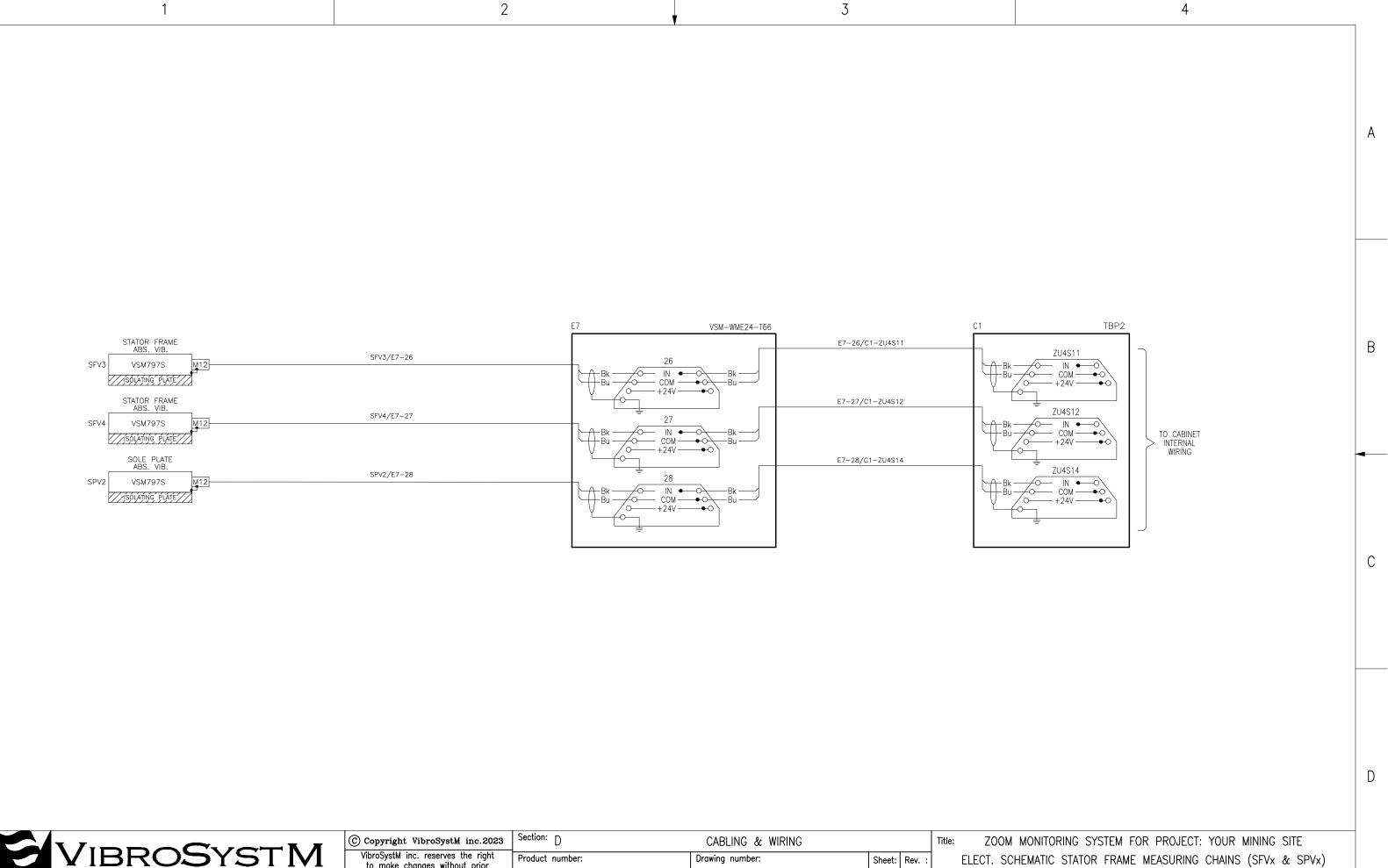
В

С

D

DREBH202

VSM-DWG-MINE1-100-D10-1.DWG



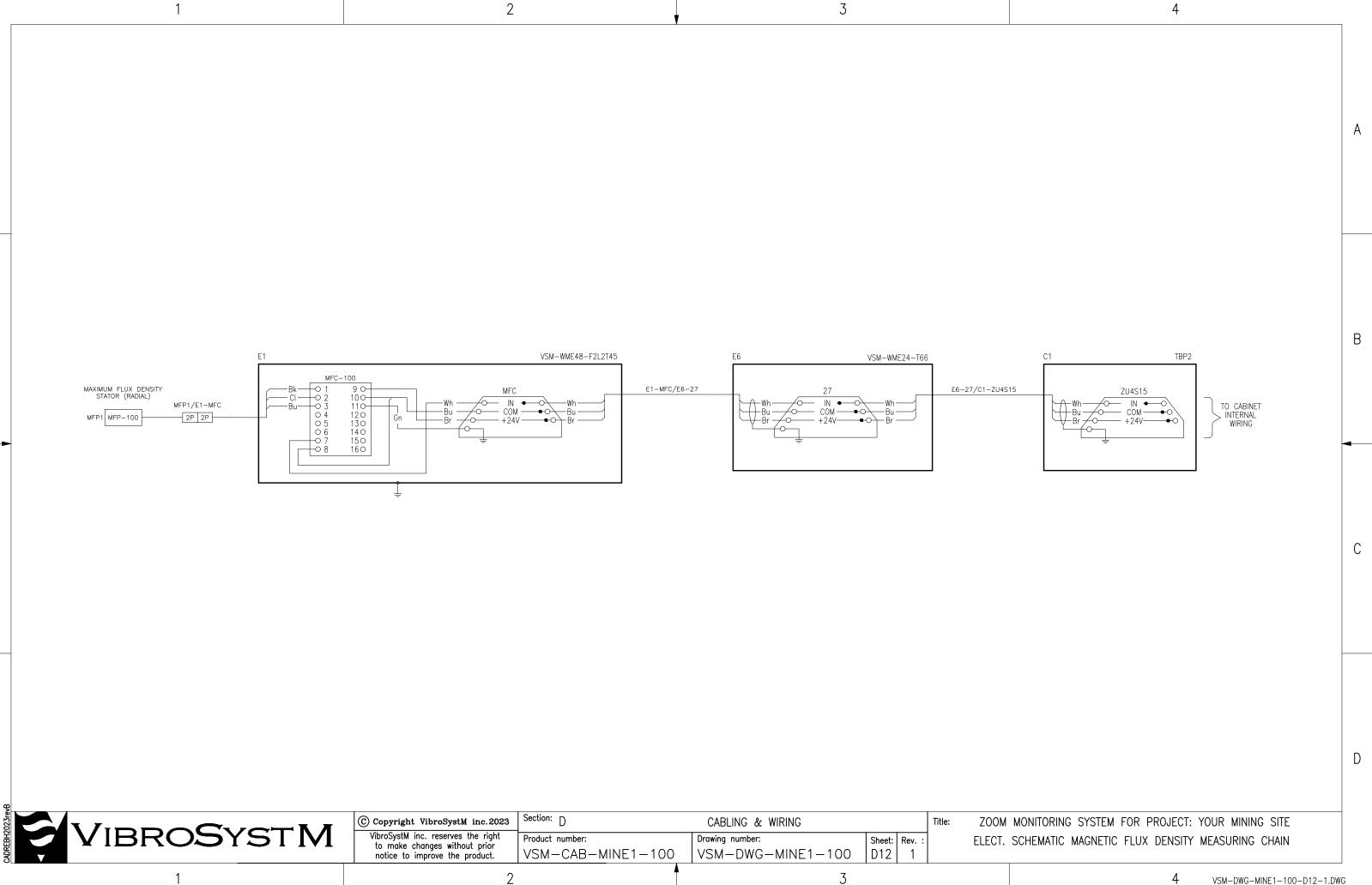
	C Copyright VibroSystM inc.2023	Section: D CABLING & WIRING			Title:	ZOOM MO
VIBROSYSTM		Product number: VSM-CAB-MINE1-100	Drawing number: VSM—DWG—MINE1—100	Sheet: Rev. : D11 1		ELECT. SCHEM
1	2		3			

В

С

D

4 VSM-DWG-MINE1-100-D11-1.DWG

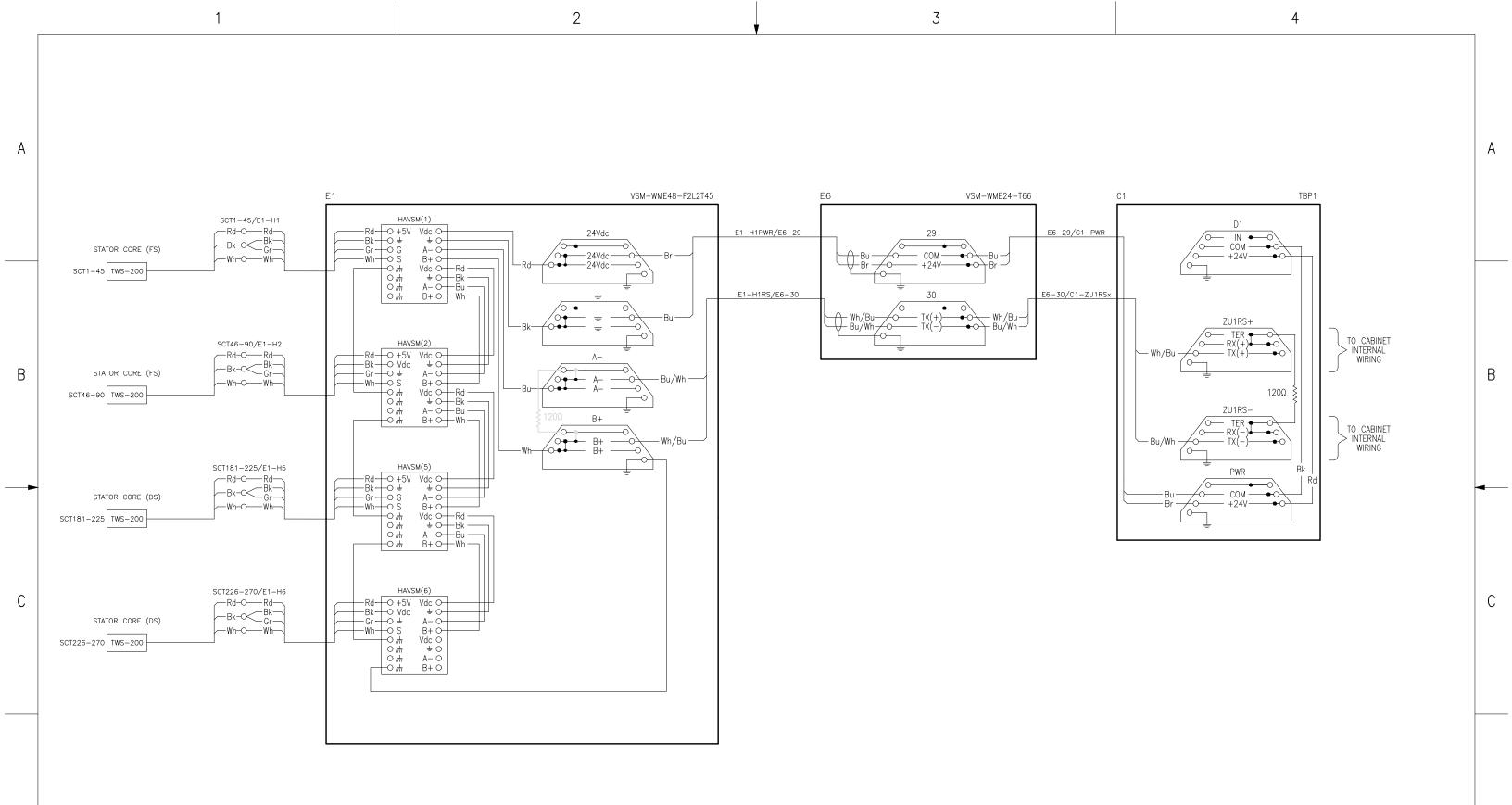


А

В

С

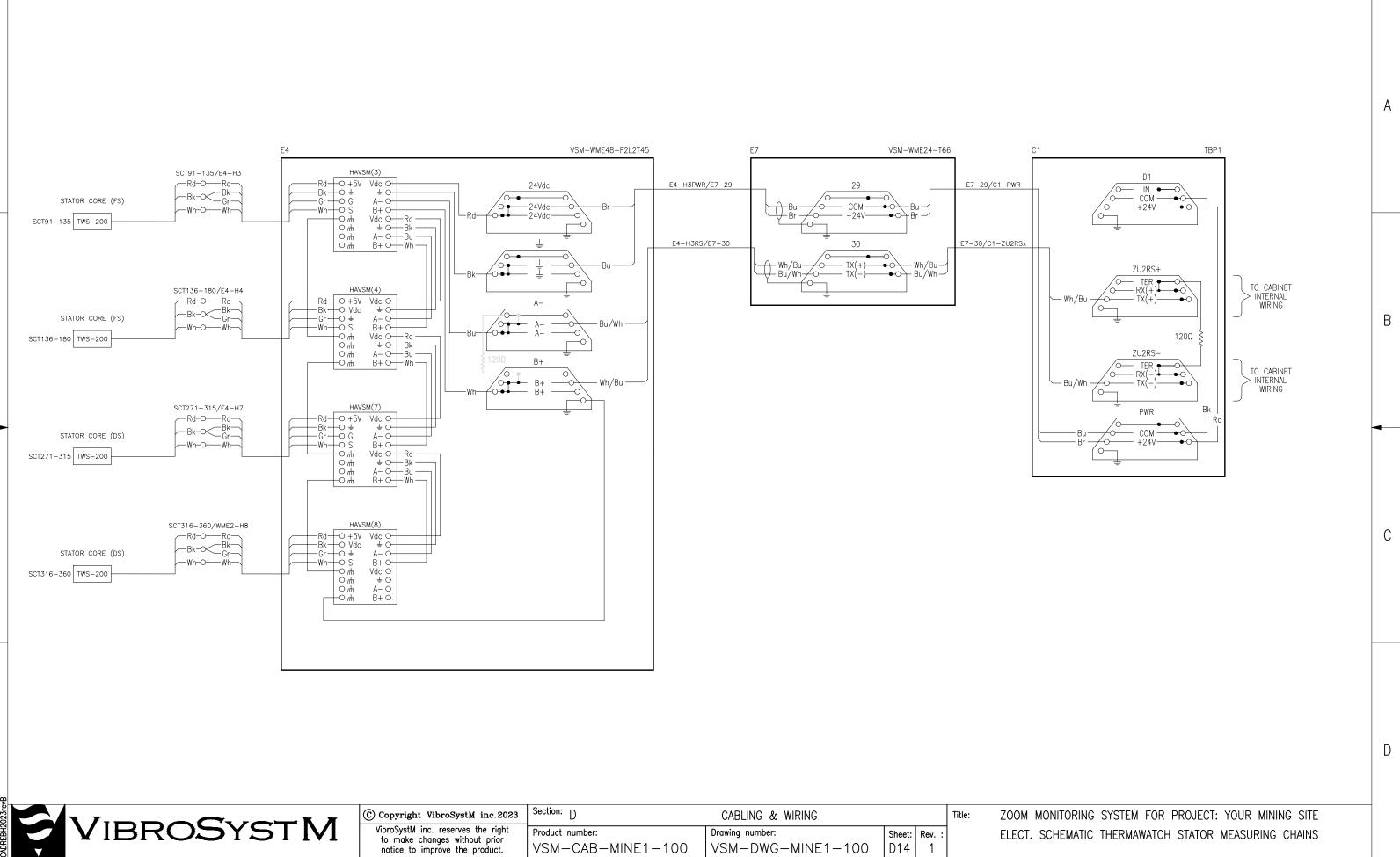
	C Copyright VibroSystM inc.2023	Section: D	CABLING & WIRING		Title:	ZOOM N
VIBROSYSTM	VibroSystM inc. reserves the right to make changes without prior notice to improve the product.	Product number: VSM-CAB-MINE1-100	Drawing number: VSM—DWG—MINE1—100	Sheet: Rev. : D12 1		ELECT. S
1	2		3			



	C Copyright VibroSystM inc.2023	Section: D	CABLING & WIRING		Title:	ZOOM M
	VibroSystM inc. reserves the right to make changes without prior notice to improve the product.	Product number: VSM-CAB-MINE1-100	Drawing number: VSM—DWG—MINE1—100	Sheet: Rev. : D13 1		ELECT. S
1	2		.3			

J

MONITORING SYSTEM FOR PROJECT: YOUR MINING SITE SCHEMATIC THERMAWATCH STATOR MEASURING CHAINS



D

А

В

С

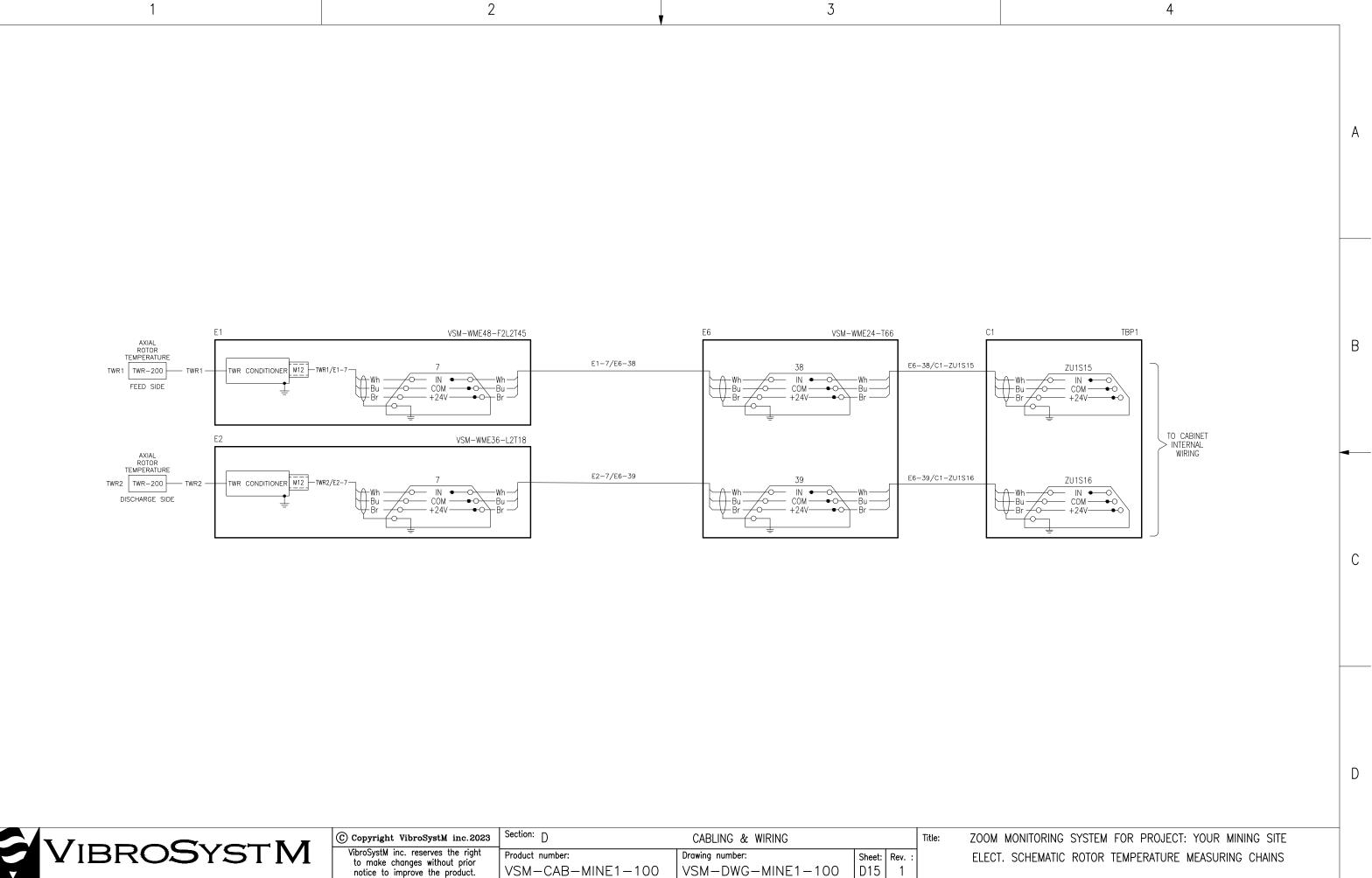
1

	C Copyright VibroSystM inc. 2023 Section: D		CABLING & WIRING		Title:	ZOOM N
	VibroSystM inc. reserves the right to make changes without prior notice to improve the product.	Product number: VSM-CAB-MINE1-100	Drawing number: VSM—DWG—MINE1—100	Sheet: Rev. : D14 1		ELECT.
1	2		3			

2

VSM-DWG-MINE1-100-D14-1.DWG

4



D

А

В

С

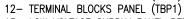
VIBROSYSTM	C Copyright VibroSystM inc.2023	Section: D	CABLING & WIRING		Title:	ZOOM N
	VibroSystM inc. reserves the right to make changes without prior notice to improve the product.	Product number: VSM-CAB-MINE1-100	Drawing number: VSM—DWG—MINE1—100	Sheet: Rev. : D15 1		ELECT.
1	2		3			

4

### EQUIPMENTS

#### FRONT VIEW OF CABINET

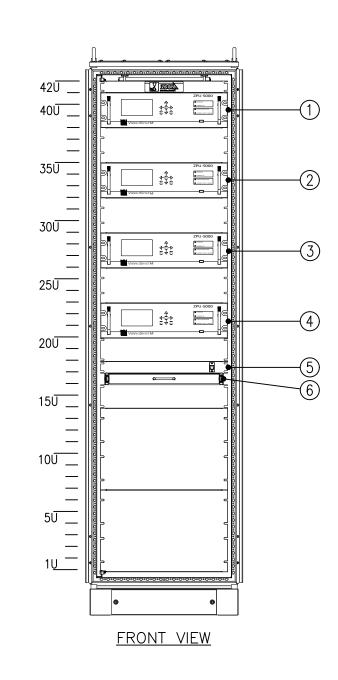
1- ZPU-5000 (ZU4) 2- ZPU-5000 (ZU3) 3- ZPU-5000 (ZU2) 4– ZPU–5000 (ZU1) 5– RJ–45 PANÈL 6- ROLL OUT SHELF REAR VIEW OF CABINET 7- LIGHT FIXTURE (LT1)8- PROTECTIVE CONDUCTOR TERMINAL (PCT2) 9- THERMOSTAT HT (HT1) 10- F/O ETHERNET & ALARM RELAY PANEL (ERP1) 11- TERMINAL BLOCKS PANEL (TBP2)

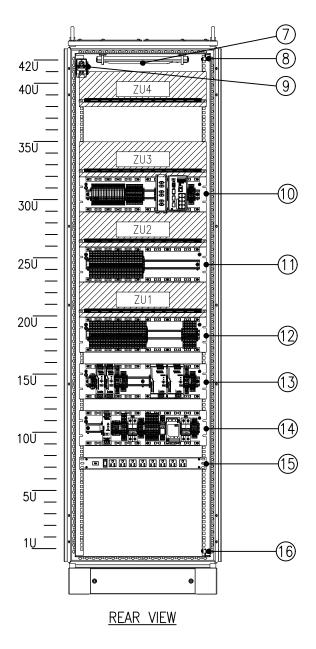


- 14- MAIN POWER PANEL (MAP1) 15- MULTI-OUTLET TYPE "B" (PB1)



ELECTRICAL OUTLET TYPE "B" (PB1)





CADREBH2023rev	VIBROSYSTM
S	

1

1

А

В

С

D

π	C copyright vibrosystm me.2023	Section: E	ZOOM MONITORING	CABINET INTE	ERNAL COMPONENTS	& WIR	ING	Title:	ZOOM	MOI
	VibroSystM inc. reserves the right to make changes without prior	Product number:		Drawing number	er:	Sheet:	Rev. :			
_	notice to improve the product.	VSM-CAB-	-MINE1-100	VSM-DW	G-MINE1-100	E1	1			

2

2

3

IONITORING SYSTEM FOR PROJECT: YOUR MINING SITE MONITORING CABINET EQUIPMENT

4

1U=1.75" OR 44.45mm

 $\square$ 

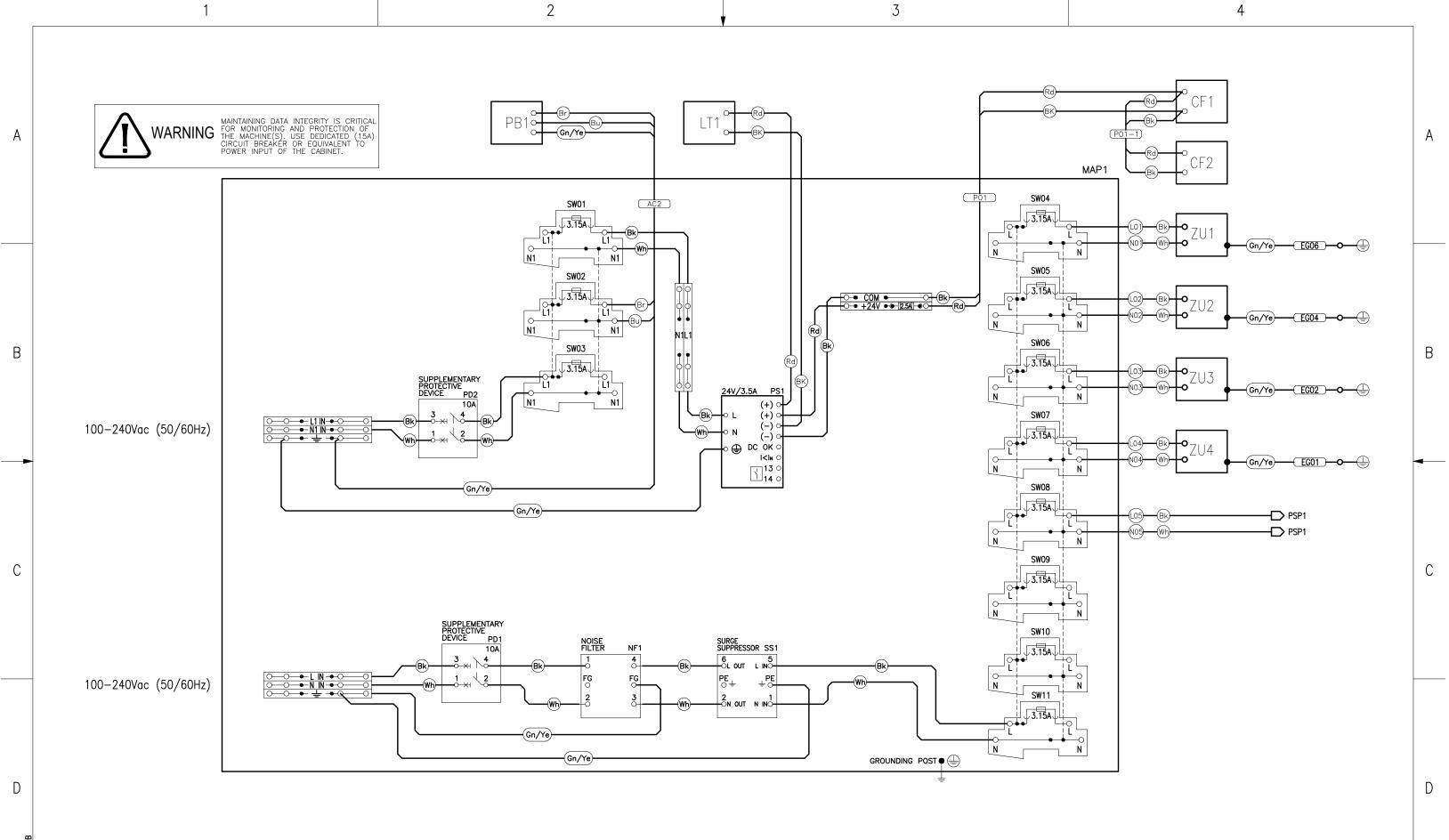
13- LOW VOLTAGE SUPPLY PANEL REDUNDANCY (PSP1) 16- PROTECTIVE CONDUCTOR TERMINAL (PCT1)

А

В

D

С



IBROSYSTM	© Copyright VibroSystM inc.2023 VibroSystM inc. reserves the right to make changes without prior notice to improve the product.	Section: E ZOOM MONITORIN Product number: VSM-CAB-MINE1-100	G CABINET INTERNAL COMPONENTS Drawing number: VSM—DWG—MINE1—100	& WIRING Sheet: Rev. : E2 1	Title:	ZOOM MON ELECT.
1	2		3			

MONITORING SYSTEM FOR PROJECT: YOUR MINING SITE CT. SCHEMATIC MAIN & AUXILIAIRY SUPPLY (MAP1)

2 3 1 ERP1 — RC02— -Rd-BK-O DC OK IN O (Bk (BK) SW01 N1 -•-L+ -•-Ox → N- → ~ ±-•-0 (Gn/Ye CONNECTED TO PANEL SW02 N1 Bk Wh Gn/Ye SW03 3 15 4 N1 N1 MAP1 \_\_\_\_\_\_ L05 \_\_\_\_\_ Bk 7 ± -•-( (Gn/Ye CONNECTED TO PANEL SW04 N1 Gn/Ye

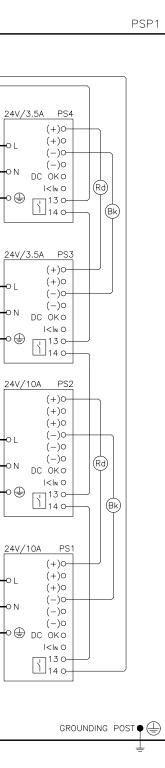
υ	
	D

А

В

С

	C Copyright VibroSystM inc.2023	Section: E ZOOM MONITORIN	IG CABINET INTERNAL COMPONENTS	& WIRING	Title: Z	ZOOM MO
VIBROSYSTIM	VibroSystM inc. reserves the right to make changes without prior notice to improve the product.	Product number: VSM-CAB-MINE1-100	Drawing number: VSM—DWG—MINE1—100	Sheet: Rev. : E3 1		ELECT.
1	2		3			



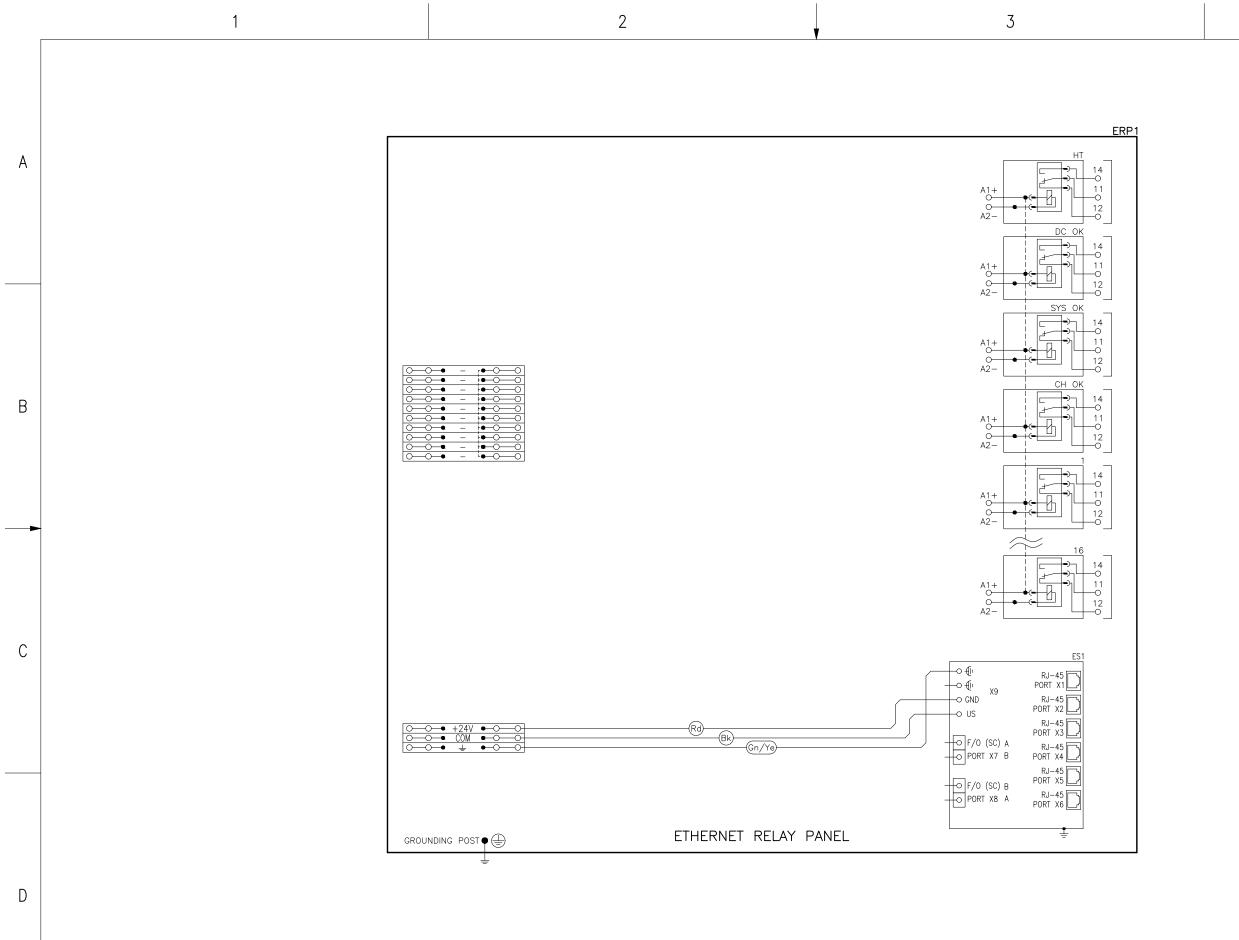
MONITORING SYSTEM FOR PROJECT: YOUR MINING SITE CT. SCHEMATIC LOW VOLTAGE SUPPLY PANEL (PSP1)

4

А

В

С



æ	
é	
53	
202	
Ŧ	
8	
R	
7	

VIDDOCVCTNA	C Copyright VibroSystM inc.2023	Section: E ZOOM MONITORIN	G CABINET INTERNAL COMPONENTS	& WIRING	Title:	ZOOM M
VIBROSYSTM	VibroSystM inc. reserves the right to make changes without prior notice to improve the product.	Product number: VSM-CAB-MINE1-100	Drawing number: VSM—DWG—MINE1—100	Sheet: Rev. : E4 1		ELEC
1	2		3			

MONITORING SYSTEM FOR PROJECT: YOUR MINING SITE ECT. SCHEMATIC ETHERNET & RELAY PANEL (ERP1)

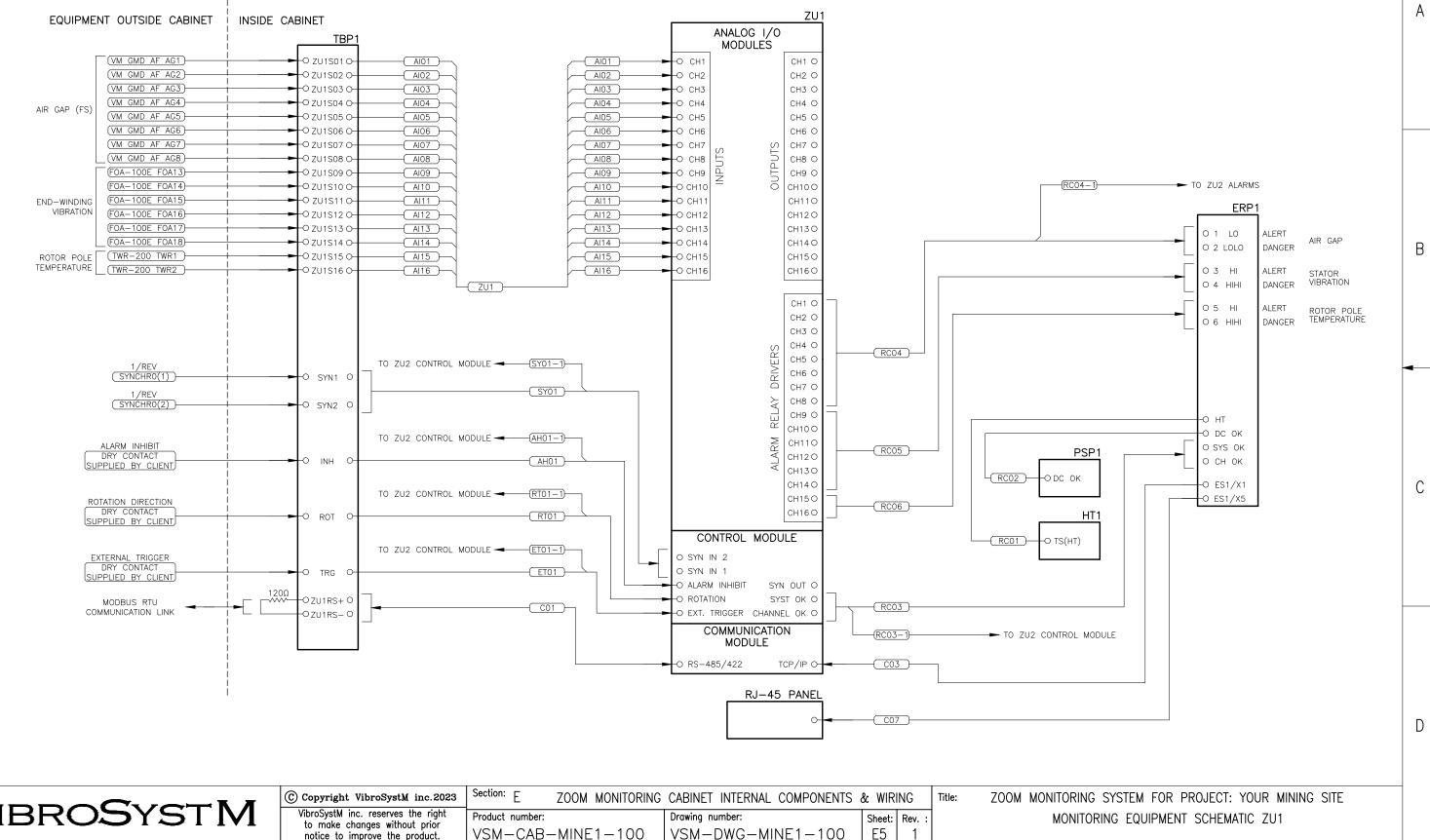
4

А

В

С

3



VIBROSYS	<u>~⊢</u> ъл	C Copyright VibroSystM inc.2023	Section: E ZOOM MONITORIN	G CABINET INTERNAL COMPONENTS	& WIRING	Title:	ZOOM M
VIBROSYS			Product number: VSM-CAB-MINE1-100	Drawing number: VSM-DWG-MINE1-100	Sheet: Rev. : E5 1		
1		2		3			

С

А

В

1

D

CADREBH2023

VSM-DWG-MINE1-100-E1-1.DWG

4

1

А

В

С

D

3

EQUIPMEN	NT OUTSIDE CABINET	INSIDE CABINET			ANALOO	ZU2		
		TBP1			MODU	LES		
Γ	(VM GMD AF AG9)	□O ZU2S01 O-	AI01		► O CH1	CH1 O		
AIR GAP (FS)	(VM GMD AF AG10)	► O ZU2S02 O	AI02		— → О СН2	CH2 O		
	(VM GMD AF AG11)	► O ZU2S03 O	AI03		► О СНЗ	СНЗ О		
	(VM GMD AF AG12)	□                                   O ZU2S04 O-	AI04			CH4 O		
Γ	(FOA-100E FOA1)	► O ZU2S05 O-	AI05	AI05	— → О СН5	CH5 O		
	(FOA-100E FOA2)	► O ZU2S06 O	AI06		— О СН6	CH6 O		
STATOR VIBRATION	(FOA-100E FOA3)	► O ZU2S07 O	AI07		— O CH7 ഗ	ഗ сн7 о		
LINE/NEUTRAL	(FOA-100E FOA4)	► O ZU2S08 O-	AI08	AI08				
	(FOA-100E FOA5)	⊂ ZU2S09 O	AI09	AI09		CH7 O CH8 O CH9 O CH10 O		
	(FOA-100E FOA6)	► O ZU2S10 O	AI10	AI10	— О СН10 =	О СН100		
Γ	(FOA-100E FOA7)	► O ZU2S11 O	AI11			CH11O		
	(FOA-100E FOA8)	► O ZU2S12 O	AI12			CH12O		
END WINDING	(FOA-100E FOA9)	► O ZU2S13 O	AI13		● O CH13	CH13O		
VIBRATION	(FOA-100E FOA10)	O ZU2S14 O	AI14		● O CH14	CH14 O		
	(FOA-100E FOA11)	► O ZU2S15 O	AI15		● O CH15	CH15O		
L	FOA-100E FOA12	O ZU2S16 O	AI16		O CH16	CH16O	RC04-2	
			TO ZU3 CONTROL MODULE FROM ZU1 CONTROL MODULE TO ZU3 CONTROL MODULE FROM ZU1 CONTROL MODULE TO ZU3 CONTROL MODULE FROM ZU1 CONTROL MODULE	AH01-2 (AH01-1) (AH01-1) (RT01-2)		CH4 0 0 CH5 0 CH5 0 CH6 0 CH7 0 CH7 0 CH7 0 CH10 0 CH10 0 CH12 0 CH14 0 CH15 0 CH15 0 CH16 0 CH16 0 CH16 0 CH16 0 CH16 0 CH16 0 CH16 0 CH16 0 CH16 0 CH1 0 C	RC07	ER 0 7 HI 0 8 HIHI
			TO ZU3 CONTROL MODULE	ET01-2)	CONTROL	MODULE		
					O SYN IN 2			
		i	FROM ZU1 CONTROL MODULE	————( <u>ET01−1</u> )				
			_			SYN OUT O	Г	
		O ZU2RS+ O		C02		SYST OK O	RC03	3-2
		O ZU2RS-O			→ O EXT. TRIGGER			-
						JLE	(RCO)	3-1)
					→ O RS-485/422		L	)4
						,		
		1						

	C Copyright VibroSystM inc.2023	Section: E ZOOM MONITORING	CABINET INTERNAL COMPONENTS & W	RING T
	VibroSystM inc. reserves the right to make changes without prior	Product number:	Drawing number: Shee	t: Rev. :
	notice to improve the product.	VSM-CAB-MINE1-100	VSM-DWG-MINE1-100 E6	1
1	2		3	

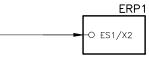
- TO ZU3 ALARMS

- FROM ZU1 ALARMS

LERT END WINDING DANGER VIBRATION

TO ZU3 CONTROL MODULE

------ FROM ZU1 CONTROL MODULE



Title:

ZOOM MONITORING SYSTEM FOR PROJECT: YOUR MINING SITE MONITORING EQUIPMENT SCHEMATIC ZU2

4

4

А

В

С

1

А

В

С

D

3

EQUIPME	NT OUTSIDE CABINET	INSIDE CABINET				ZU3			
		TBP2			ANA	LOG I/O DDULES			
Г		□ □	(Al01)			CH1 O			
	(VM GMD AF AG14)	⊂ 0 2033010-	(Al02)	AI01		CH1 O			
AIR GAP (DS)	(VM GMD AF AG15)	I I → O ZU3SO3 O-	(Al03)	AI03	→ O CH3	CH2 O			
	(VM GMD AF AG16)	⊂ 2003000 C	(Al04)		→ O CH4	CH4 O			
[	(VSM797S_SCV1)	► O ZU3S05 O-	(AI05)	(		сн5 о			
	(VSM797S_SCV2)	► O ZU3S06 O-	(Al06)	AI06 )-	О СН6	СН6 О			
	(VSM797S SCV3)	► O ZU3S07 O-	AI07						
	VSM797S SCV4	► O ZU3S08 O-	AI08			СН8 О			
	VSM797S SCV5	L → O ZU3S09 O-	AI09	AI09		STURE CH2 O CH2 O CH2 O CH10 O			
STATOR CORE	(VSM797S SCV6)	► O ZU3S10 O-	AI10	AI10	— → О СН10 🗲	б сн100			
ABS. VIBRATION	VSM797S SCV7	► O ZU3S11 O-	AI11			CH11O			
	VSM797S SCV8	► O ZU3S12 O-	AI12	AI12		CH12 O			
	(VSM797S SCV9)	► O ZU3S13 O-	AI13		● O CH13	CH13O			
	(VSM797S_SCV10)	O ZU3S14 O-	AI14	AI14		CH14 O			
	(VSM797S_SCV11)	► O ZU3S15 O	AI15			CH15O			
L	_(VSM797S_SCV12)	► O ZU3S16 O-	AI16	AI16		CH16O	RC04-3		TO ZU4 ALARMS
				3					
						СН1 О			
						CH2 O	(RC04-2)		FROM ZU2 ALARMS
						СНЗ О	(1004-2)		FROM ZUZ ALARMIS
			TO ZU4 CONTROL MODULE	SY01-3					
			FROM ZU2 CONTROL MODULE	SY01-2					
								ERP1	
						Сн8 О Сн9 О Сн10 О Сн10 О	Г	-	DT
			TO ZU4 CONTROL MODULE	AH01-3			RC08	O 9 HI ALE	RI STATOR CORE IGER ABS. VIBRATION
						W2 CH110 CH120 CH130	L		NGER REER REPRESENTED
			FROM ZU2 CONTROL MODULE	AH01−2	ן ן	☐ CH120 CH130			
						CH14 O			
			TO ZU4 CONTROL MODULE	RT01-3		CH15O			
						CH16O			
			FROM ZU2 CONTROL MODULE	. <u> </u>					
					CONTR	OL MODULE			
			TO ZU4 CONTROL MODULE	ET01-3					
			FROM ZU2 CONTROL MODULE						
						BIT SYN OUT O			
						syst ок о 🗍			
					O EXT. TRIGGI	ER CHANNEL OK O	RCC	13-3	➡ TO ZU4 CONTROL MOD
					СОММ		6.00		
					M	ODULE		3-2	FROM ZU2 CONTROL W
					O RS-485/42		(_C	05	
		I							ERP
									● O ES1/X3

	C Copyright VibroSystM inc.2023	Section: E ZOOM MONITORING	G CABINET INTERNAL COMPONENTS	& WIRING	Title:	ZOOM M
VIBROSYSTIV	VibroSystM inc. reserves the right to make changes without prior notice to improve the product.	Product number: VSM-CAB-MINE1-100	Drawing number: VSM-DWG-MINE1-100	Sheet: Rev. : E7 1		
1	2		3			

MONITORING SYSTEM FOR PROJECT: YOUR MINING SITE MONITORING EQUIPMENT SCHEMATIC ZU3

4

А

В

С

3

EQUIPMEN	NT OUTSIDE CABINET	INSIDE CABINET				ANAL	_OG 1/0	<u>ZU4</u>		
_						мо	DULES			
	(VM GMD AF AG17)	⊂ ZU4S01 O	AI01	(	AI01	- О СН1	CI	н1 О		
	(VM GMD AF AG18)	► O ZU4S02 O-	AI02		AI02	- → O CH2	CH	H2 O		
	(VM GMD AF AG19)	► O ZU4S03 O-	AI03		AI03	− О СНЗ	CH	H3 O		
AIR GAP (DS)	(VM GMD AF AG20)	□	AI04		AI04	- <b>-</b> O CH4	CH	H4 O		
	(VM GMD AF AG21)	► O ZU4S05 O-	AI05		AI05	- О СН5		H5 O		
	(VM GMD AF AG22)	► O ZU4S06 O-	AI06		—(AI06)———	— — О СН6		H6 O		
	(VM GMD AF AG23)	⊂ ZU4S07 O	AI07		(AI07_)		ST CF	H7 O		
L	VM GMD AF AG24	► O ZU4S08 O-	AI08		AI08			-18 O		
	(VSM797S_SFV1)	□			AI09		0UTPUTS 다 다 다 다 다	H9 O		
STATOR FRAME ABS. VIBRATION	(VSM797S_SFV2)	► O ZU4S10 O-			AI10					
ABS. VIBRATION	(VSM797S SFV3)	► O ZU4S11 O-			AI11	-►-O CH11		1110		
Ļ	VSM797S SFV4	► O ZU4S12 O-	AI12		—(AI12)——			1120		
SOLE PLATE	(VSM797S SPV5)	O ZU4S13 O-		F	—( <u>AI13</u> )——	-► O CH13		130		
	VSM797S SPV6	► O ZU4S14 O-	AI14		—(AI14)	-► O CH14		140		
MAGNETIC FLUX		O ZU4S15 O-	(AI15)		—(AI15)——			1150		
	(SPARE	► O ZU4S16 O-	(AI16)		(AI16)	O CH16	СН	160		
			ZU4							
							CI	н1 0 🦳		
							CH	12 0		
							CH	13 0		
							V CH	4 0	(CO. 1)	
							DRIVERS	15 0	RC04-3	
							≥   C+	16 0		
			FROM ZU3 CONTROL MODULE -					17 0		
							RELAY	-18 0		
							금 아	-19 O 🗌		
							011	100		
							NAR CH	110	( RC09 )	I
			FROM ZU3 CONTROL MODULE -	—(AH01-3)—				120		
							< CH	130		
							СН	140		
								150		
			FROM ZU3 CONTROL MODULE -				СН	160		
							L MODULE			
						O SYN IN 2				
			FROM ZU3 CONTROL MODULE -	ET01-3)	「	O SYN IN 1				
							BIT SYN OU	_ о ті		
						O ROTATION	SYST (			( RC
						→ O EXT. TRIGGE	R CHANNEL (	ж о 🔤		
						COMM	JNICATION DULE			RC
						O RS-485/42	2 TCP/			

2

CADREBH2023-evB	VIBROSY	STM	C Cop Vibros to r noti
	1		

1

А

В

С

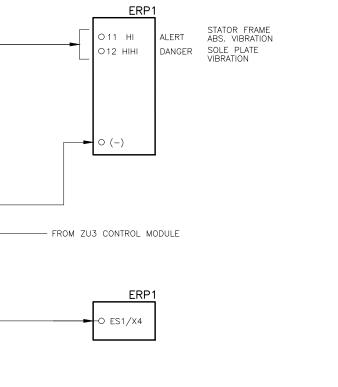
D

© Copyright VibroSystM inc.2023	Section: E	ZOOM	MONITORING	CABINET	INTERNAL	COMPONENTS	& WIF	RING	Title:	ZOOM	MON
VibroSystM inc. reserves the right to make changes without prior	Product number:			Drawing n	umber:		Sheet:	Rev. :	1		
notice to improve the product.	VSM-CAB-	-MINE	1-100	VSM-	DWG-MI	INE1-100	E8	1			

3

4

# ONITORING SYSTEM FOR PROJECT: YOUR MINING SITE MONITORING EQUIPMENT SCHEMATIC ZU4

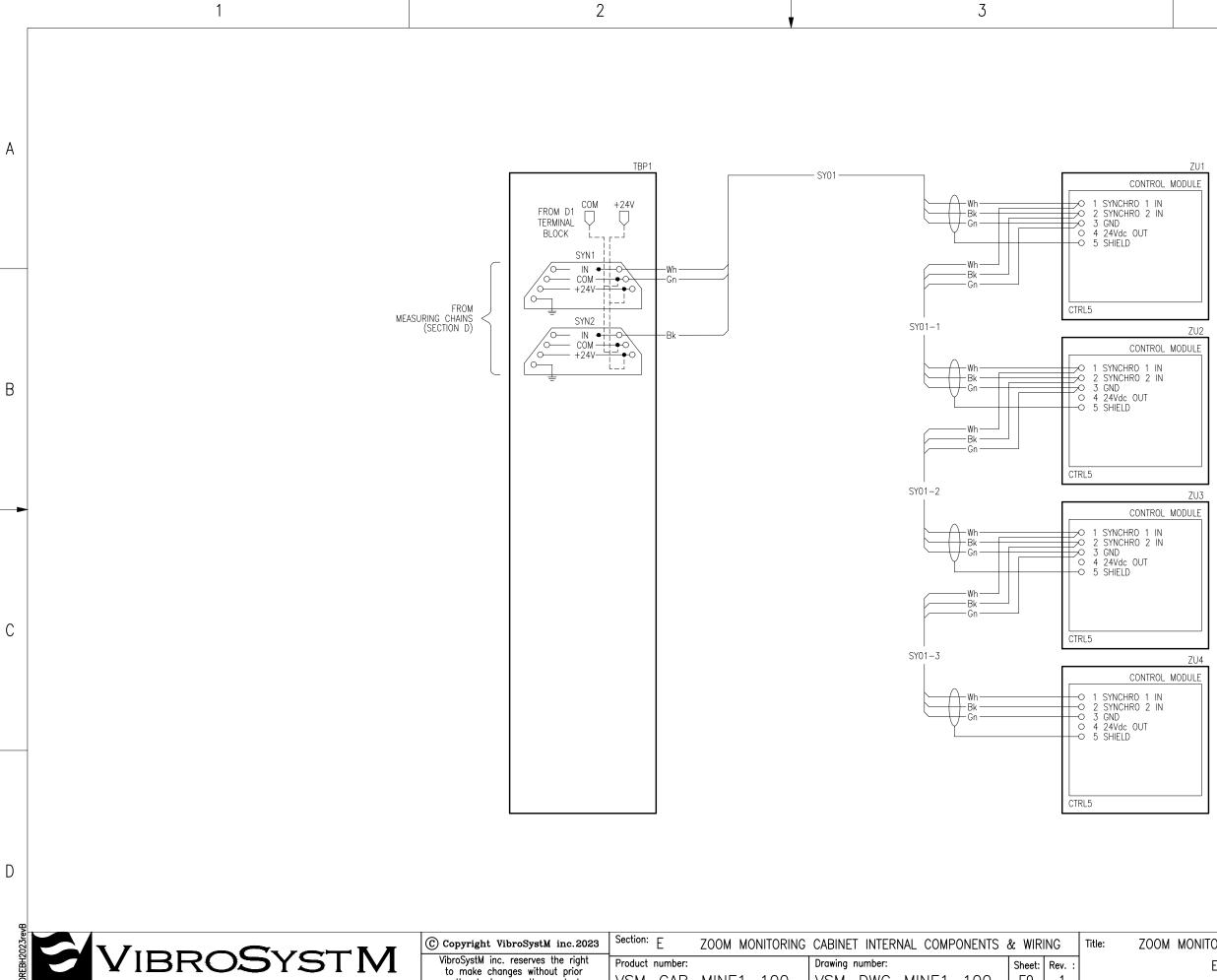


------- FROM ZU3 ALARMS

А

В

С



1

C copyright vibrosystm me. 2025	L	ZUUW	MONITORI	٩G	CADINET	INTERNAL	CONFORENTS	OC WILL	ING	nue.
VibroSystM inc. reserves the right to make changes without prior notice to improve the product.	Product number: VSM-CAB-	-MINE	1-100		Drawing nu VSM—		NE1-100	Sheet: E9	Rev. :	
										-

3

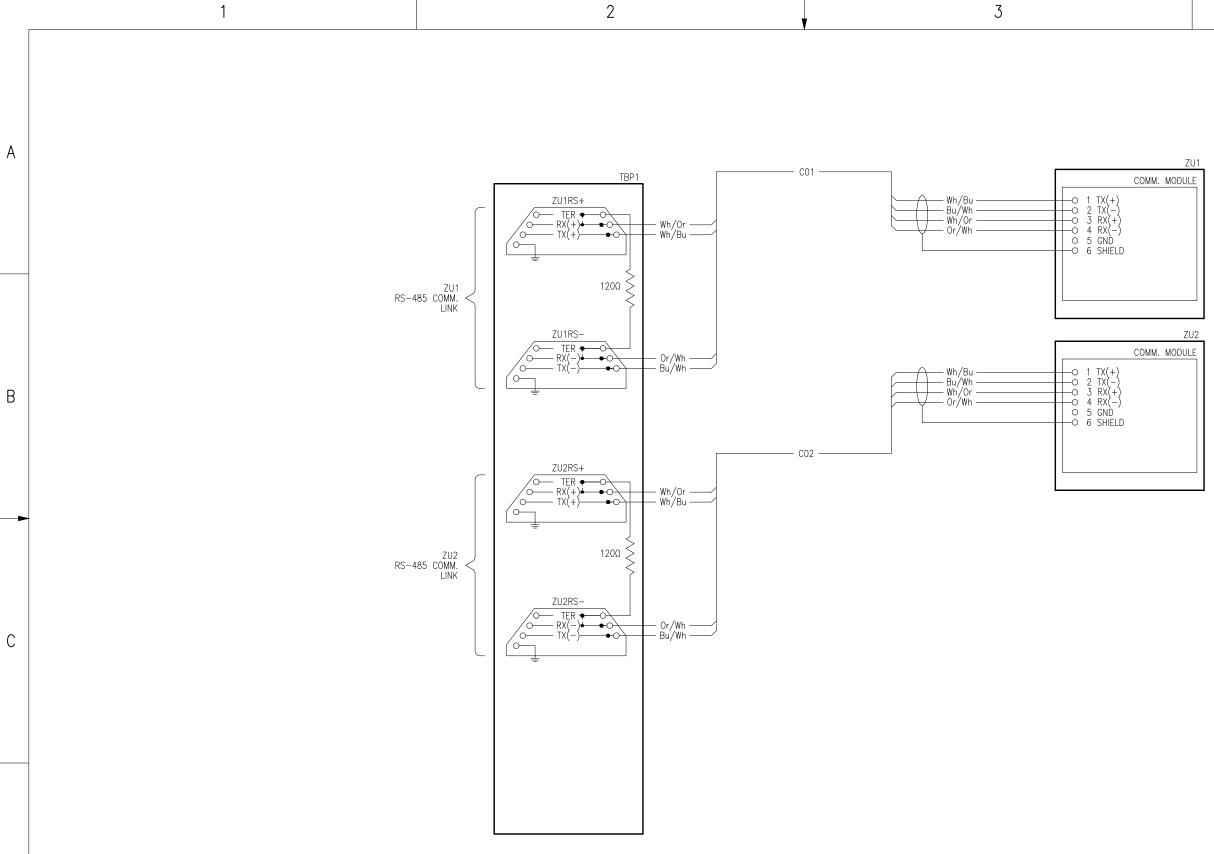
# ZOOM MONITORING SYSTEM FOR PROJECT: YOUR MINING SITE ELECT. SCHEMATIC SYNCHRO INPUTS

4

А

В

С



D

CADREBH2023revB

VIBROSYSTM		C Copyright VibroSystM inc.2023	Section: E ZOOM MONITORING	CABINET INTERNAL COMPONENTS	& WIRING	Title:	ZOOM MC	
	VIBROSY	SIN	VibroSystM inc. reserves the right to make changes without prior notice to improve the product.	Product number: VSM-CAB-MINE1-100	Drawing number: VSM-DWG-MINE1-100	Sheet: Rev. : E10 1		
	1		2		3			

3

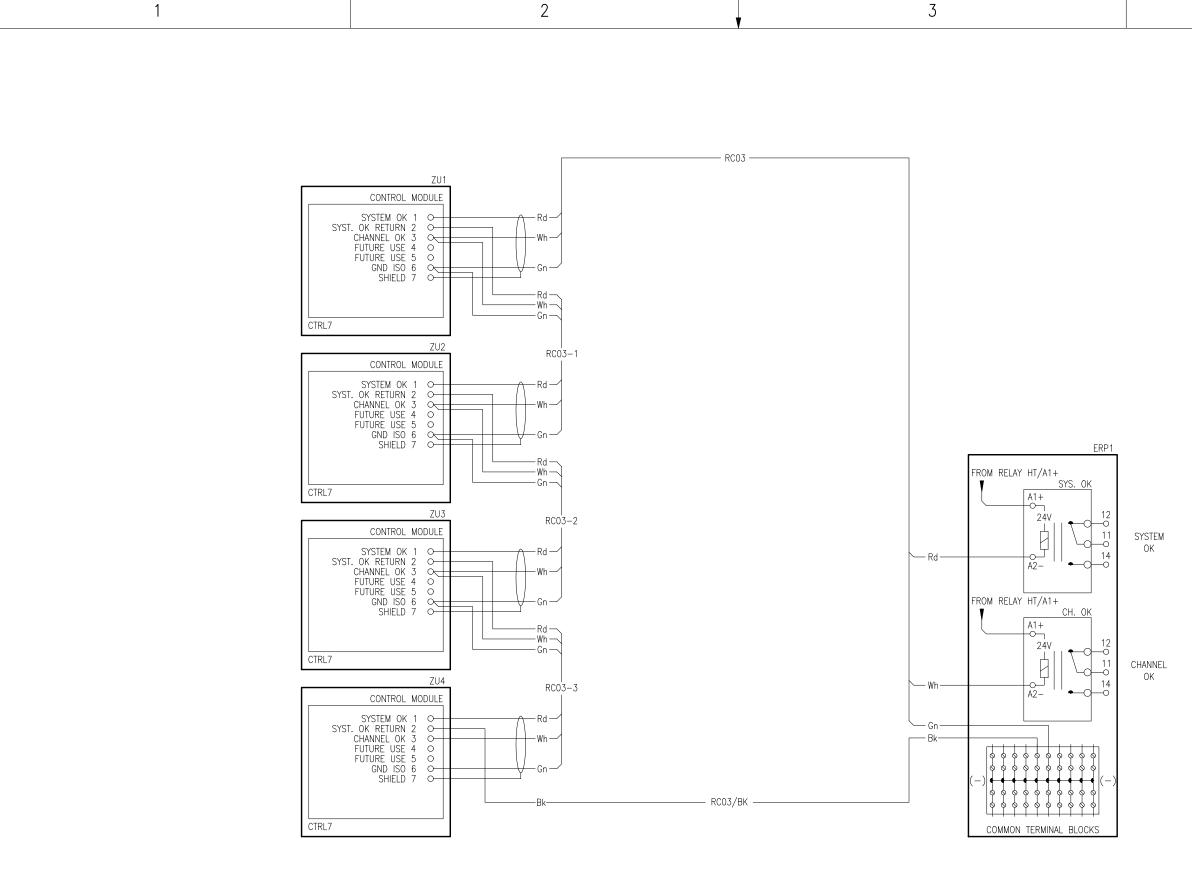
MONITORING SYSTEM FOR PROJECT: YOUR MINING SITE ELECT. SCHEMATIC COMM, MODULE I/O

4

А

В

С



А

В

С

D

C Copyright VibroSystM inc.2023	Section: E	ZOOM MONITORING	CABINET INTERN	L COMPONENTS	& WIR	ING	Title:	ZOOM MON
VibroSystM inc. reserves the right to make changes without prior	Product number:		Drawing number:		Sheet:	Rev. :		ELE
notice to improve the product.	VSM-CAB-	-MINE1-100	VSM-DWG-I	/INE1-100	E11	1		

3

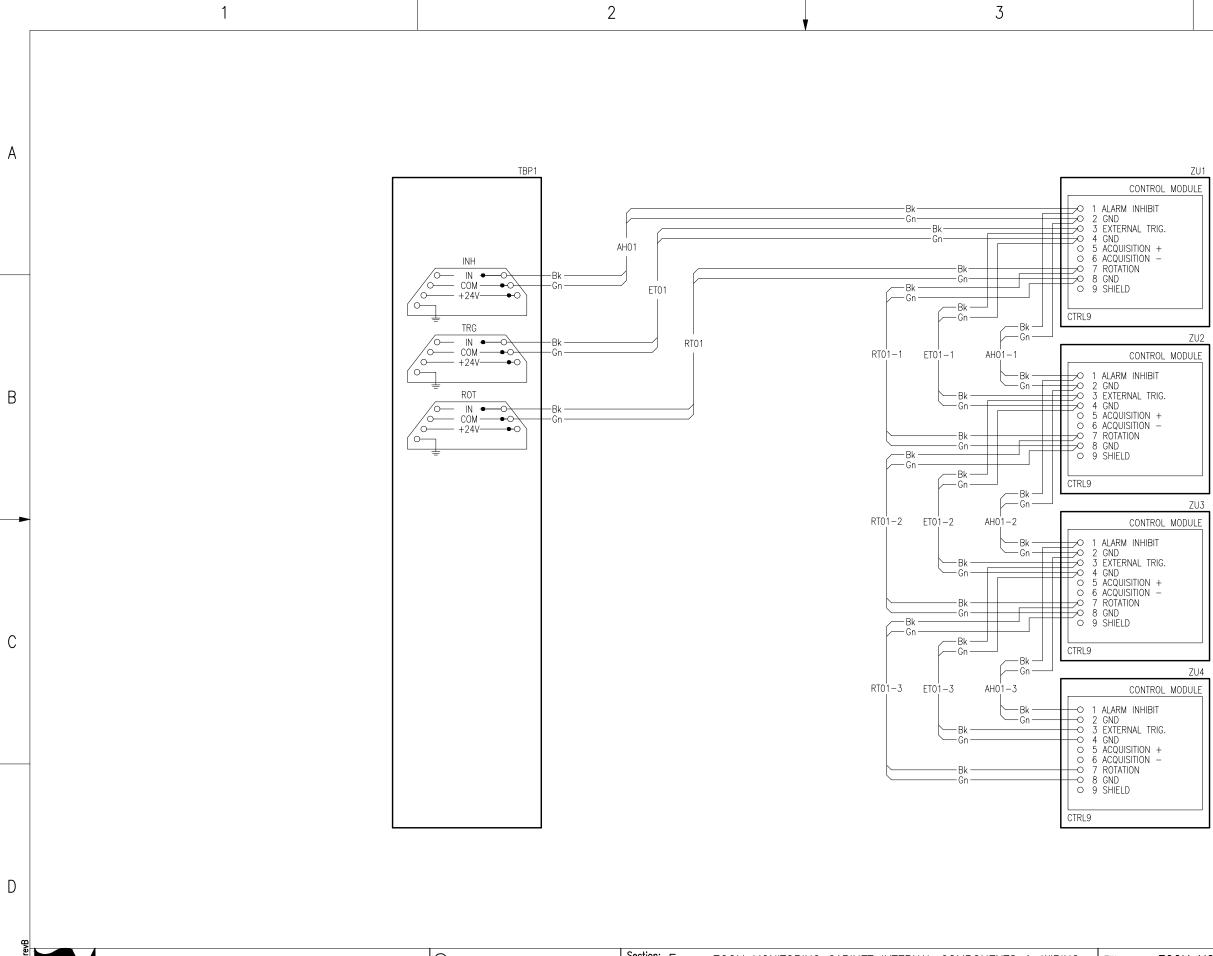
ONITORING SYSTEM FOR PROJECT: YOUR MINING SITE LECT. SCHEMATIC SYS. OK- CH. OK ALARMS

4

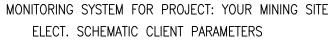
А

В

С



	C Copyright VibroSystM inc.2023	Section: E ZOOM MONITORING	CABINET INTERNAL COMPONENTS	& WIRING	Title:	ZOOM MON
VIBROSYSTM	VibroSystM inc. reserves the right to make changes without prior	Product number:	Drawing number:	Sheet: Rev. :		
	notice to improve the product.	VSM-CAB-MINE1-100	VSM-DWG-MINE1-100	E12 1		
1	2		3			

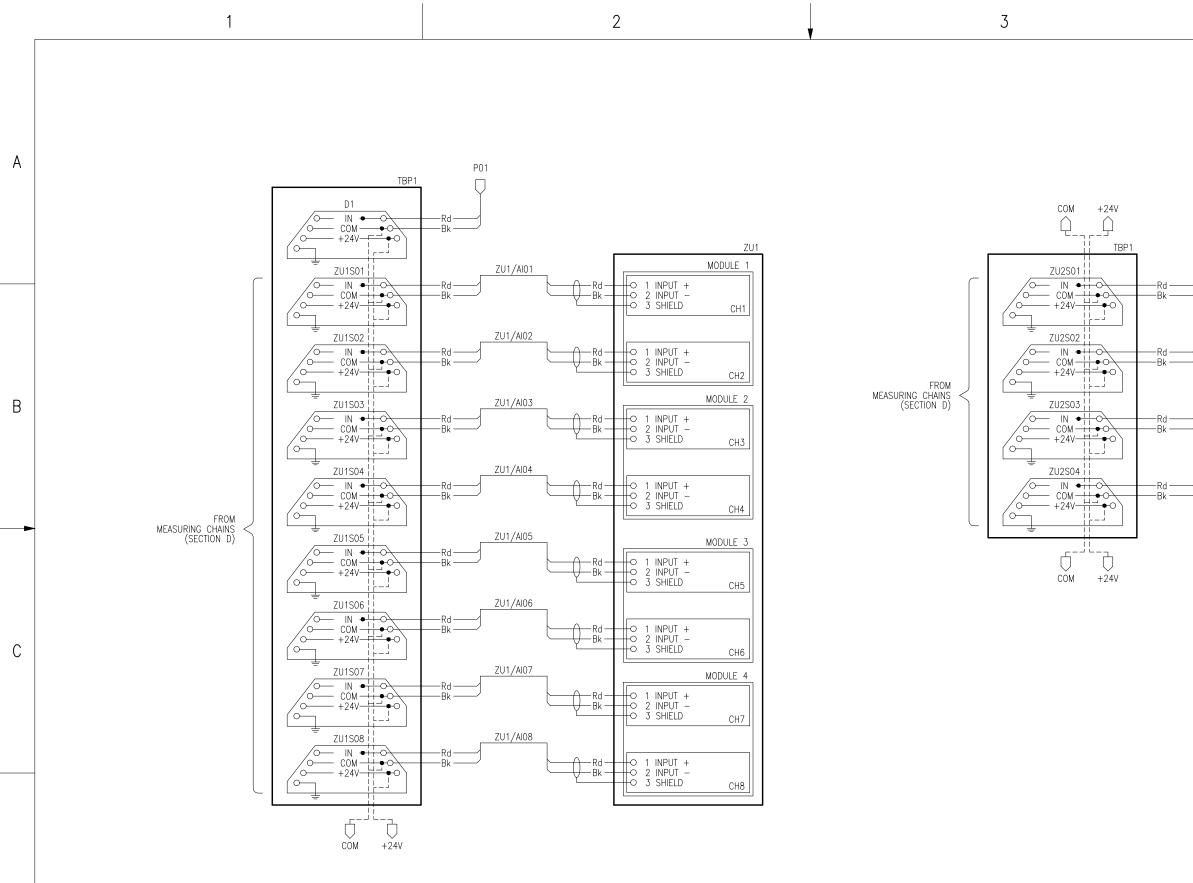


4

А

В

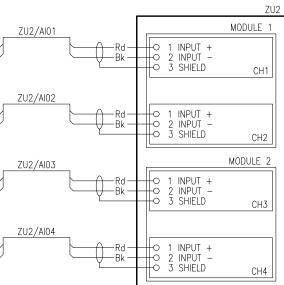
С



D



VIDDOCIOTIA	C Copyright VibroSystM inc.2023	Section: E ZOOM MONITORING	DRING CABINET INTERNAL COMPONENTS & WIRIN		Title: ZOON	M MONI
VIBROSYSTM	I TO MAKE CHANGES WITHOUT DRIOF	Product number: VSM-CAB-MINE1-100	Drawing number: VSM—DWG—MINE1—100	Sheet: Rev. : E13 1		
1	2		3			



## ONITORING SYSTEM FOR PROJECT: YOUR MINING SITE ELECT. SCHEMATIC AIR GAP INPUTS

4

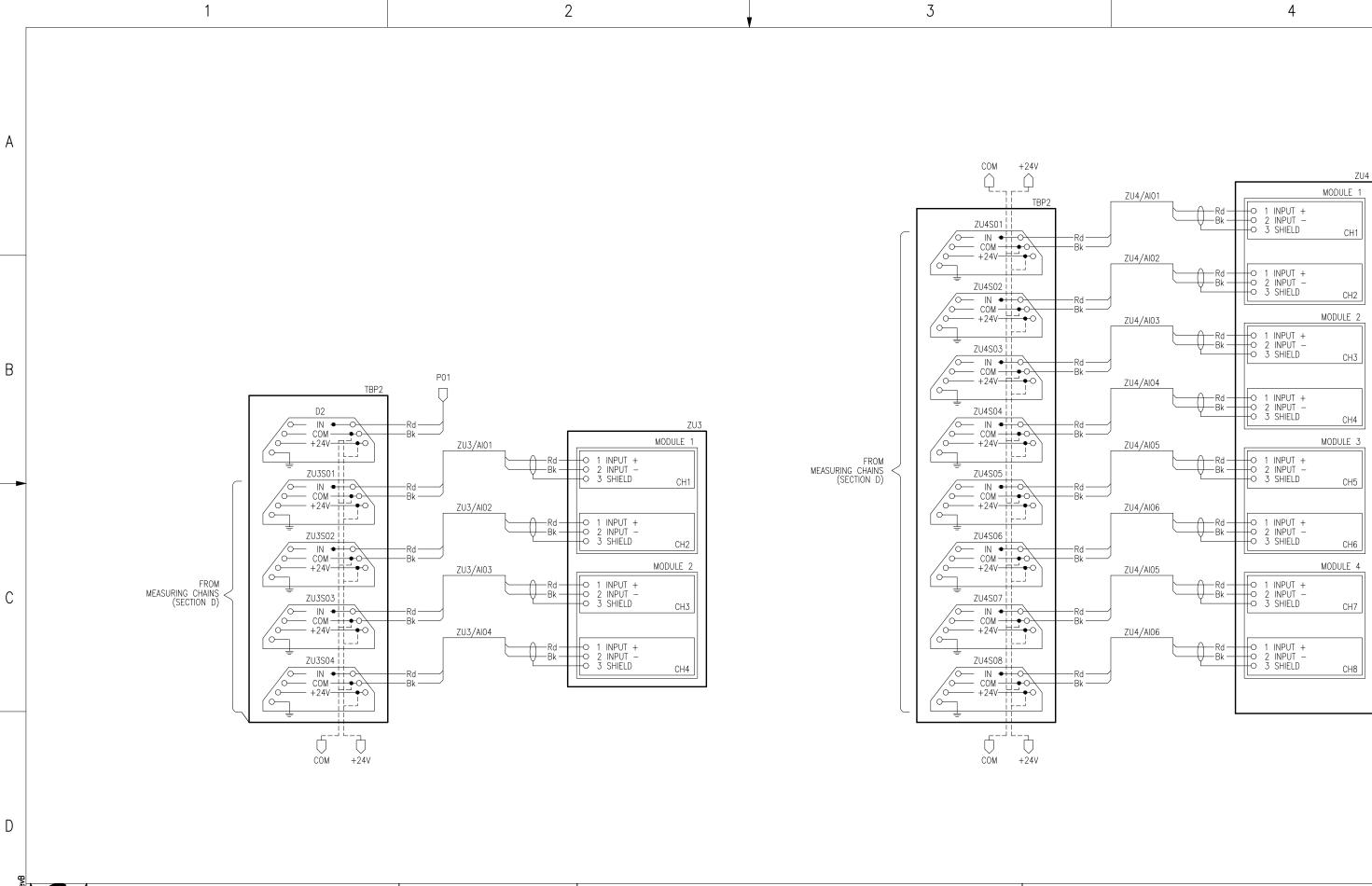
VSM-DWG-MINE1-100-E13-1.DWG

4

А

В

С



	C Copyright VibroSystM inc.2023	Section: E ZOOM MONITORING	CABINET INTERNAL COMPONENTS	& WIRING	Title:	ZOOM MON
<b>VIBROSYSTM</b>	VibroSystM inc. reserves the right to make changes without prior	Product number:	Drawing number:	Sheet: Rev. :		
	notice to improve the product.	VSM-CAB-MINE1-100	VSM-DWG-MINE1-100	E14 1		
1	2		3			

ONITORING SYSTEM FOR PROJECT: YOUR MINING SITE ELECT. SCHEMATIC AIR GAP INPUTS

#### 4

#### VSM-DWG-MINE1-100-E14-1.DWG

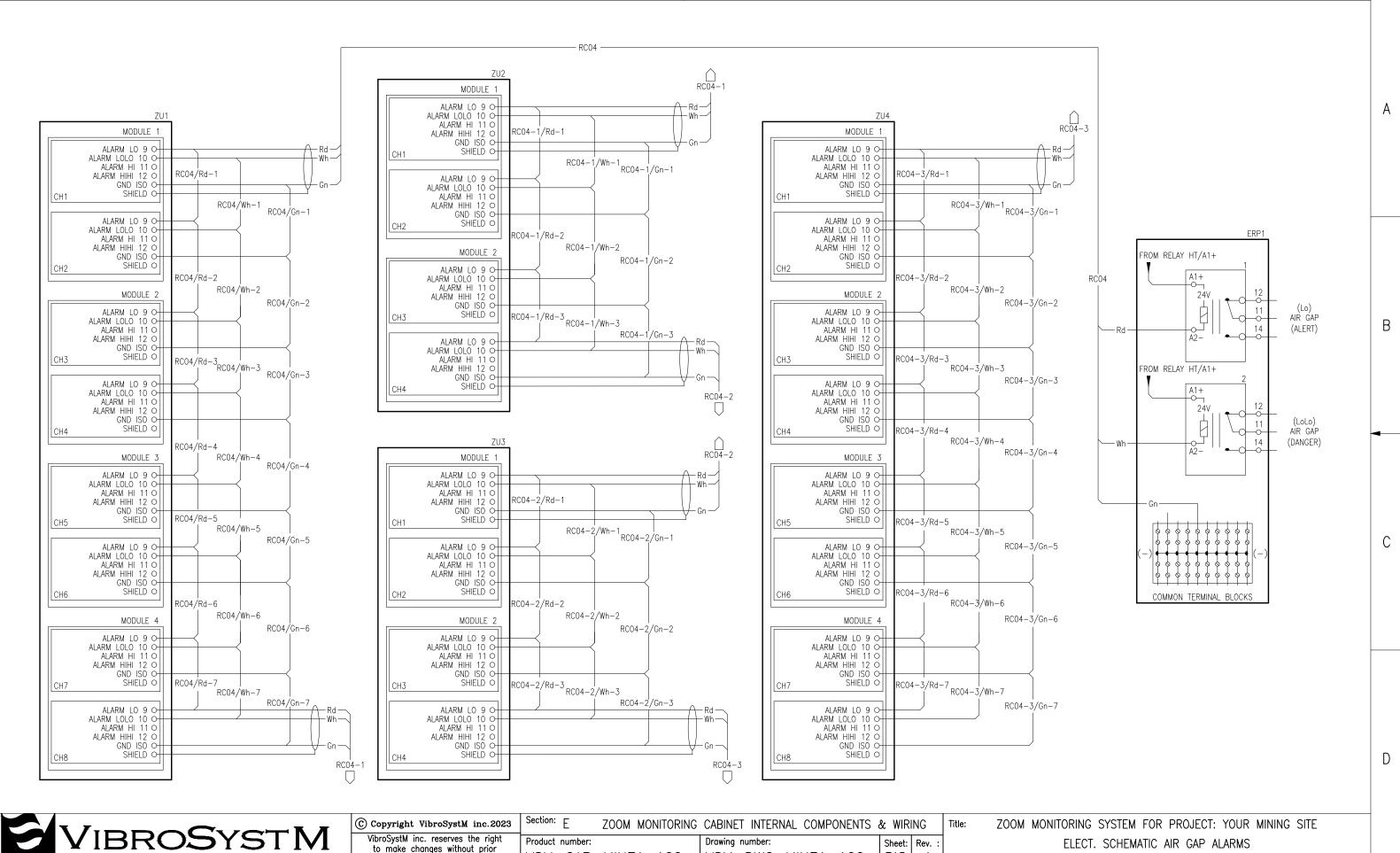
А

В

С







CADREBH2023rev	

1

А

В

С

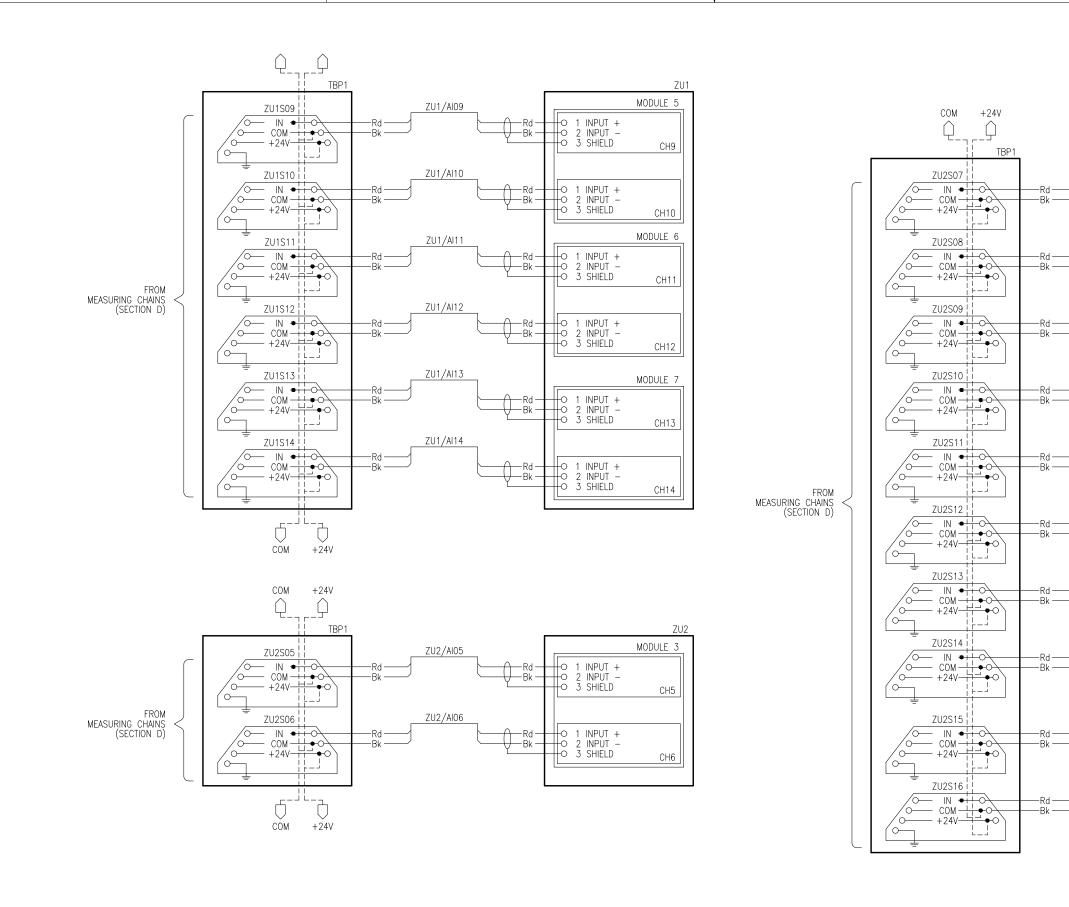
D

SYSTM	C Copyright VibroSystM inc.2023	Section: E ZOOM MONITO	DRING CABINET INTERNAL COMPONEI	NTS & WIR	ING	Γ
	VibroSystM inc. reserves the right to make changes without prior	Product number:	Drawing number:	Sheet:	Rev. :	
	notice to improve the product.	VSM-CAB-MINE1-10	0 VSM-DWG-MINE1-10	0 E15	1	
	2		3			

# ELECT. SCHEMATIC AIR GAP ALARMS

4

3



CADREBH2023reve	VIBROSYSTM	(

1

А

В

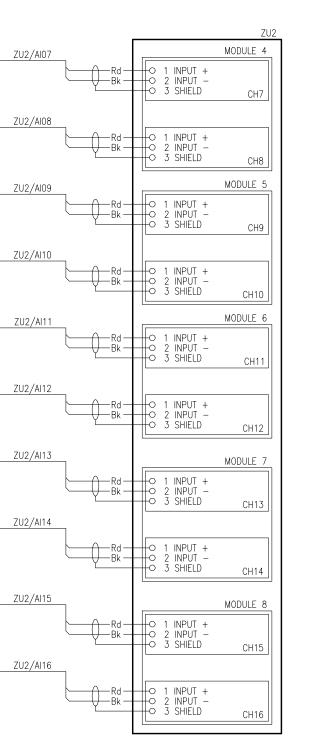
С

D

C copyright vibrosystm mc.2023	Section: E ZOOM MONITORING	CABINET INTERNAL COMPONENTS	& WIRI	NG	Title:	ZOOM MO
VibroSystM inc. reserves the right to make changes without prior	Product number:	Drawing number:	Sheet:	Rev. :		ELECT. S
notice to improve the product.	VSM-CAB-MINE1-100	VSM-DWG-MINE1-100	E16	1		

2

3



4

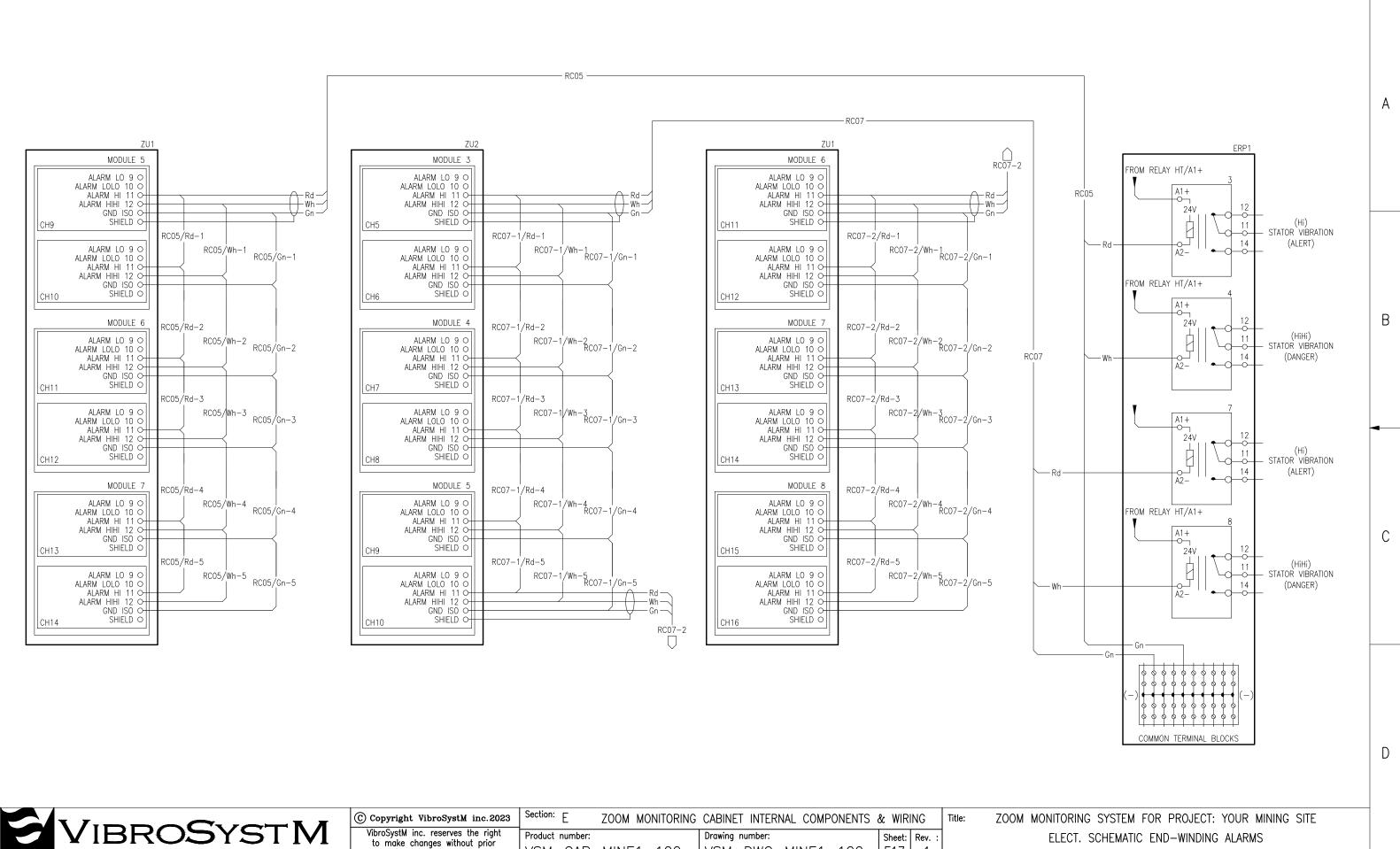
А

В

С

D

MONITORING SYSTEM FOR PROJECT: YOUR MINING SITE T. SCHEMATIC END-WINDING VIBRATION ANALOG INPUTS



А

В

С

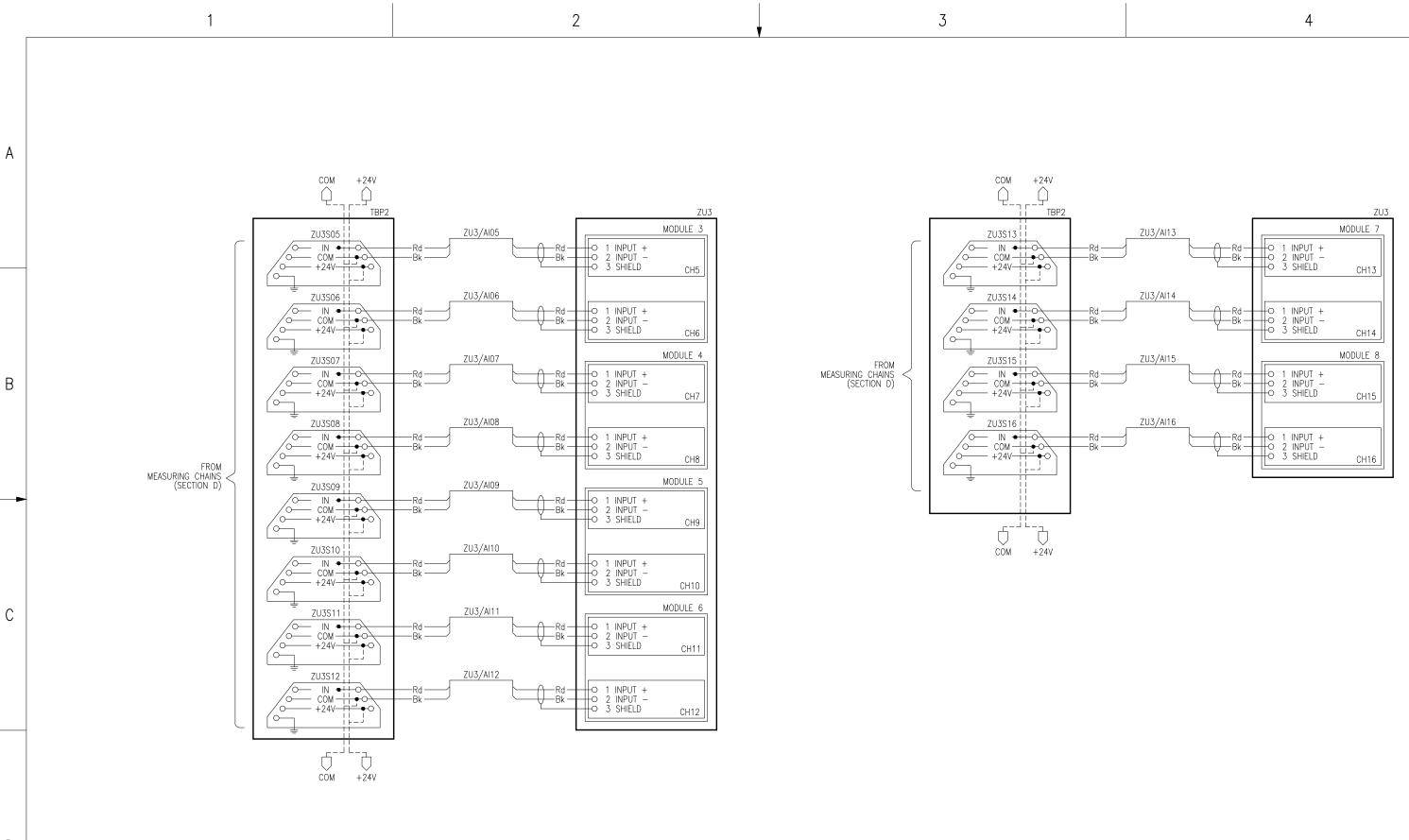
1

VIDDOCUCTNA	C Copyright VibroSystM inc.2023	Section: E ZOOM MONITORING	CABINET INTERNAL COMPONENTS	& WIRING	Title:	ZOOM MC
VIBROSYSTM	VibroSystM inc. reserves the right to make changes without prior notice to improve the product.	Product number: VSM-CAB-MINE1-100	Drawing number: VSM-DWG-MINE1-100	Sheet: Rev. : E17 1		
1	2		3			

2

VSM-DWG-MINE1-100-E17-1.DWG

4



D

	C Copyright VibroSystM inc.2023	Section: E ZOOM MONITORING	G CABINET INTERNAL COMPONENTS	& WIRING	Title: ZOOM	MONI
VIBROSYSTM	VibroSystM inc. reserves the right to make changes without prior notice to improve the product.	Product number: VSM-CAB-MINE1-100	Drawing number: VSM—DWG—MINE1—100	Sheet: Rev. : E18 1	ELEC	CT. SCH
1	2		3			

NITORING SYSTEM FOR PROJECT: YOUR MINING SITE CHEMATIC STATOR CORE VIBRATION ANALOG INPUTS

А

В

С

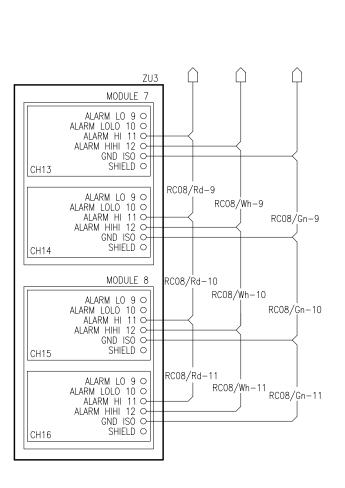
3

3

RC08

	MODULE 3	ī	
	ALARM LO 9 O ALARM LOLO 10 O		
	ALARM HI 11 O- ALARM HIHI 12 O-		
	GND ISO O- SHIELD O-		
CH5	0.11222		RC08/Rd-1
	ALARM LO 9 O		RC08/Wh-1
	ALARM LOLO 10 O ALARM HI 11 O		RC08/Gn-1
	ALARM HIHI 12 O- GND ISO O-		
CH6	Shield o		
	MODULE 4		
	ALARM LO 9 O	ī	RC08/Rd-2     RC08/Wh-2
	ALARM LOLO 10 O		RC08/Gn-2
	ALARM HI 11 O- ALARM HIHI 12 O-		
CH7	GND ISO O- SHIELD O		
	ALARM LO 9 O ALARM LOLO 10 O		RC08/Rd-3 RC08/Wh-3 RC08/Gn-3
	ALARM HI 11 O- ALARM HIHI 12 O-		
	GND ISO O-		
CH8	Shield o		
	MODULE 5		RC08/Rd-4
	ALARM LO 9 O		RC08/Wh-4
	ALARM LOLO 10 O ALARM HI 11 O-		RC08/Gn-4
	ALARM HIHI 12 O- GND ISO O-		
СН9	SHIELD O		
			RC08/Rd-5
	ALARM LO 9 O ALARM LOLO 10 O		RC08/Wh-5 RC08/Gn-5
	ALARM HI 11 O- ALARM HIHI 12 O-		
СН10	GND ISO O- SHIELD O		
Louino			
	MODULE 6		RC08/Rd-6
	ALARM LO 9 O		RC08/Wh-6 RC08/Gn-6
	ALARM LOLO 10 O ALARM HI 11 O-	$\parallel$	
	ALARM HIHI 12 O- GND ISO O-		
CH11	Shield o		
	ALARM LO 9 O		RC08/Rd-7
	ALARM LOLO 10 O ALARM HI 11 O-		RC08/Wh-7 RC08/Gn-7
	ALARM HIHI 12 O- GND ISO O-		
CH12	SHIELD O		
			RC08/Rd-8
			RC08/Wh-8 RC08/Gn-8

1



RC08

1

Т	C Copyright VibroSystM inc.2023	Section: E	ZOOM MONITORING	CABINET INTERNAL	COMPONENTS	& WIR	NG	Title:	ZOOM	MONI
	VibroSystM inc. reserves the right to make changes without prior	Product number:		Drawing number:		Sheet:	Rev. :			El
	notice to improve the product.	VSM-CAB-	MINE1-100	VSM-DWG-MI	NE1-100	E19	1			

2

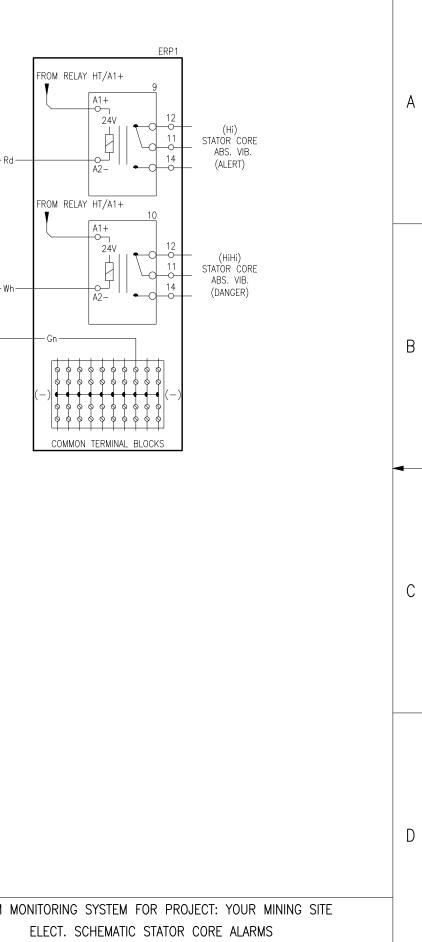
В

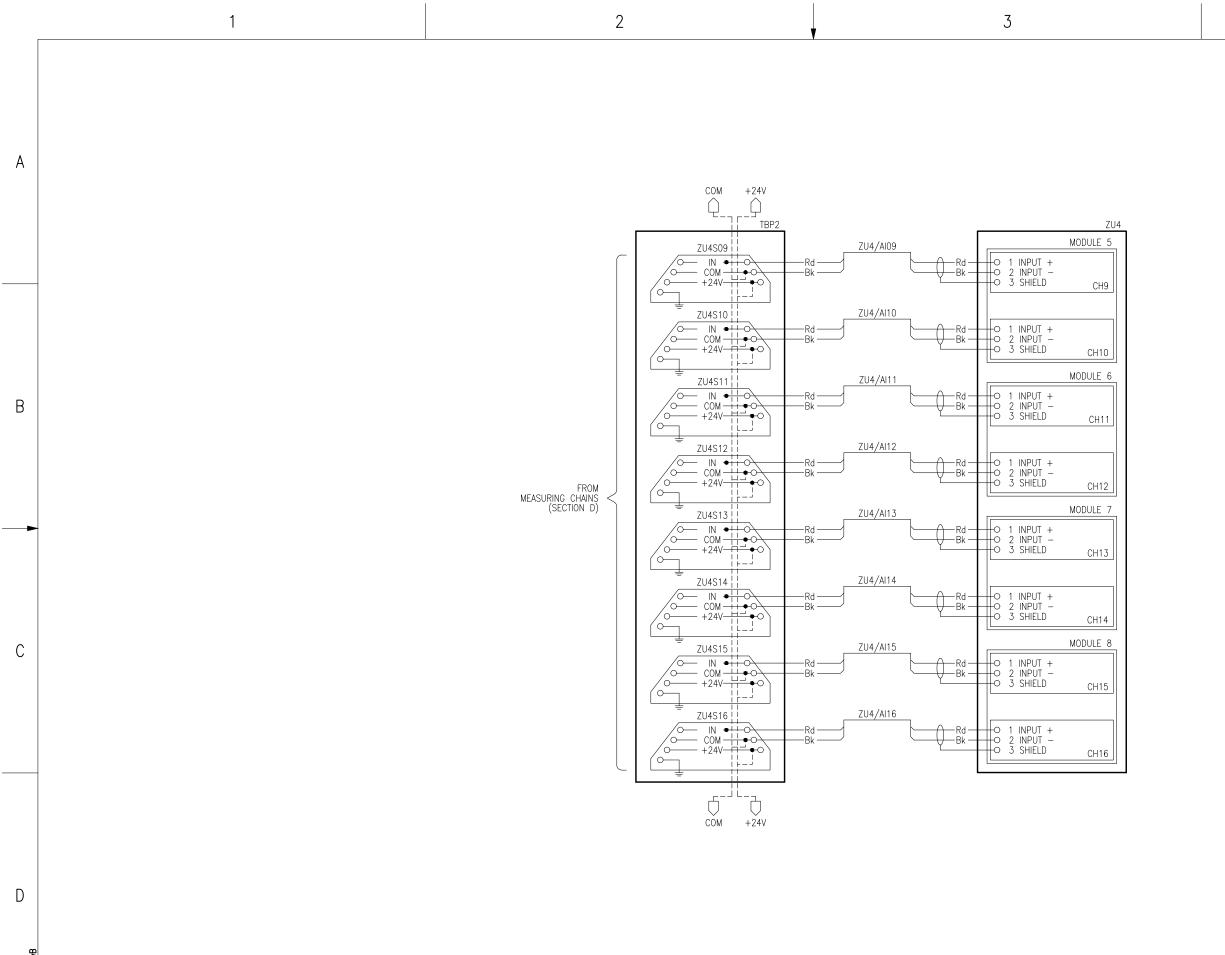
А

С

D

4





	C Copyright VibroSystM inc.2023	Section: E ZOON	MONITORING	CABINET INTERNAL	COMPONENTS	& WIRIN	IG	Title:	ZOOM MONIT
IBROSYSTM	I to make changes without prior	Product number: VSM-CAB-MIN	=1 100	Drawing number:	INE1 100	Sheet: E20	Rev. :	E	LECT. SCHEMATI
1	notice to improve the product.				3	LZU	I		

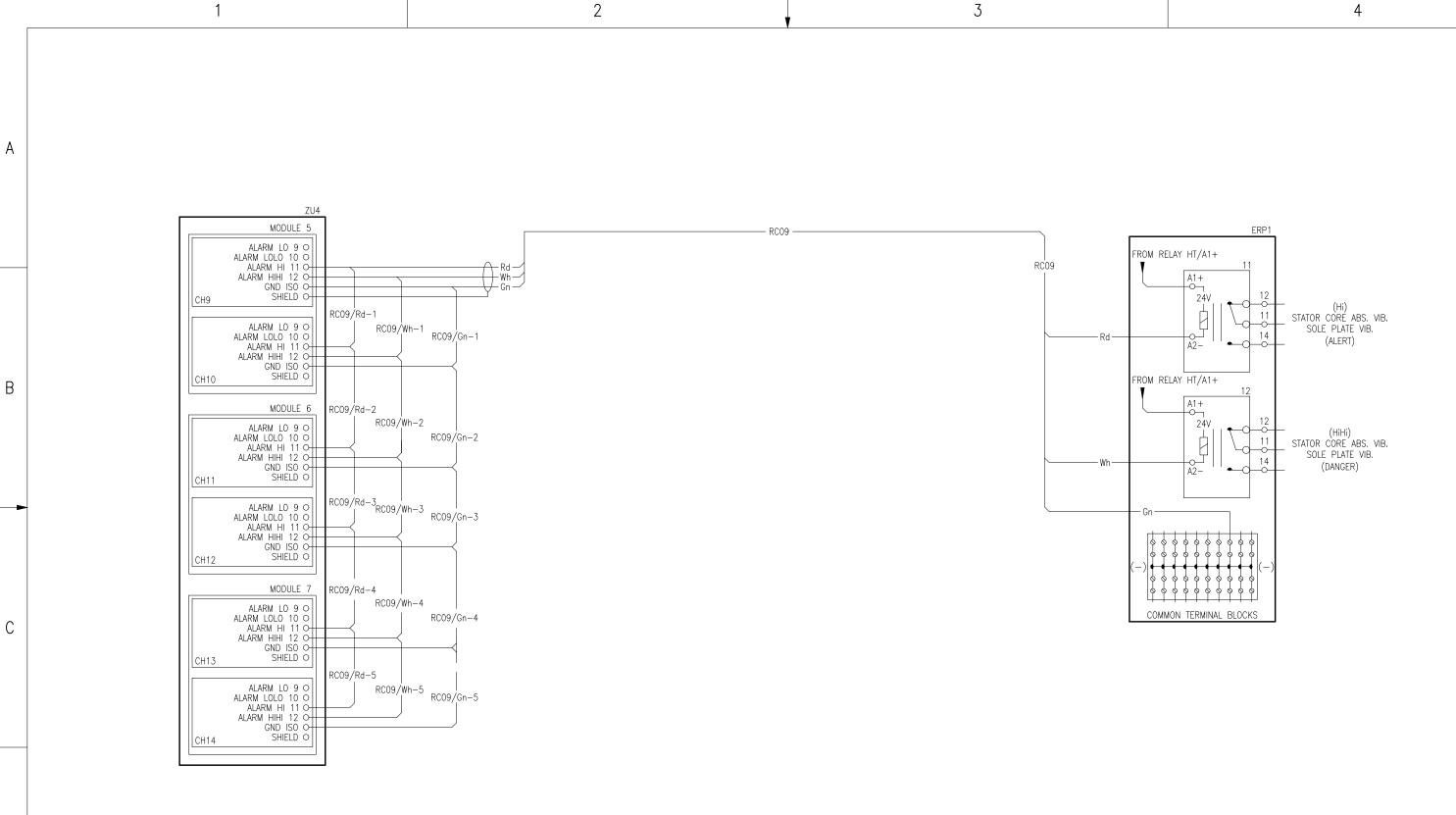
NITORING SYSTEM FOR PROJECT: YOUR MINING SITE ATIC STATOR FRAME & SOLE PLATE VIB. ANALOG INPUTS

4

А

В

С





	C Copyright VibroSystM inc.2023	Section: E ZOOM MONITORING	CABINET INTERNAL COMPONENTS	& WIRING	Title: ZOOM	MONI
VIBROSYSTM	to make changes without prior	Product number: VSM-CAB-MINE1-100	Drawing number: VSM—DWG—MINE1—100	Sheet: Rev. : E21 1	ELEC	CT. SC
1	2		3			

3

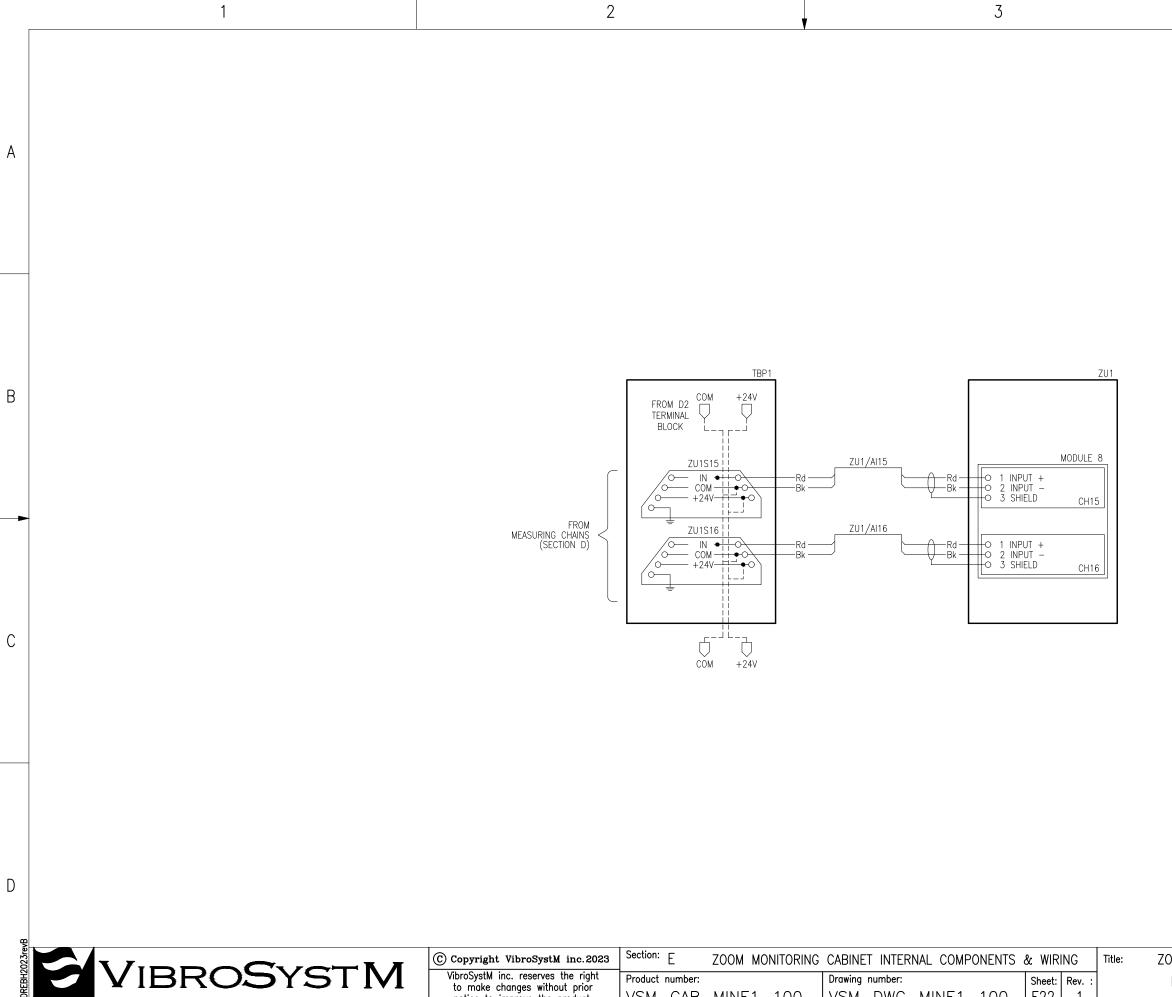
ONITORING SYSTEM FOR PROJECT: YOUR MINING SITE SCHEMATIC STATOR FRAME & SOLE PLATE ALARMS

4

А

В

С



	C Copyright VibroSystM inc.2023	Section: E	ZOOM MONITORING	CABINET INTERNAL	. COMPONENTS &	& WIRI	NG	Title: Z	ZOOM MO	ONITC	
シント		VibroSystM inc. reserves the right to make changes without prior	Product number:		Drawing number:		Sheet:	Rev. :		ELECT.	SCH
	notice to improve the product.	VSM-CAB-	-MINE1-100	VSM-DWG-M	INE1-100	E22	1				

3

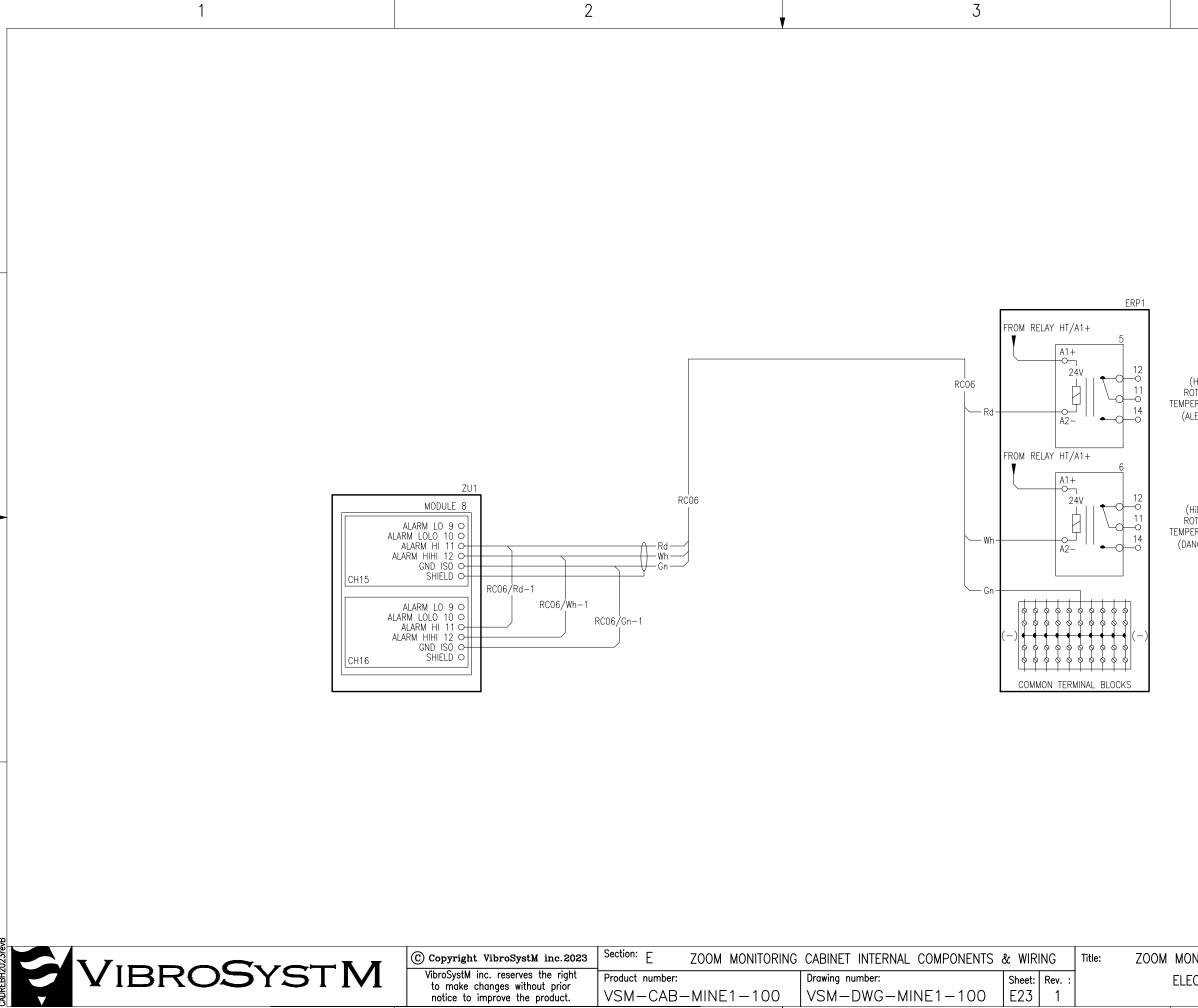
NTORING SYSTEM FOR PROJECT: YOUR MINING SITE SCHEMATIC ROTOR TEMPERATURE ANALOG INPUTS

4

А

В

С



1

А

В

С

D

3

(Hi) ROTOR TEMPERATURE (ALERT)

(HiHi) ROTOR TEMPERATURE (DANGER)

# ZOOM MONITORING SYSTEM FOR PROJECT: YOUR MINING SITE ELECT. SCHEMATIC ROTOR TEMPERATURE ALARMS

4

А

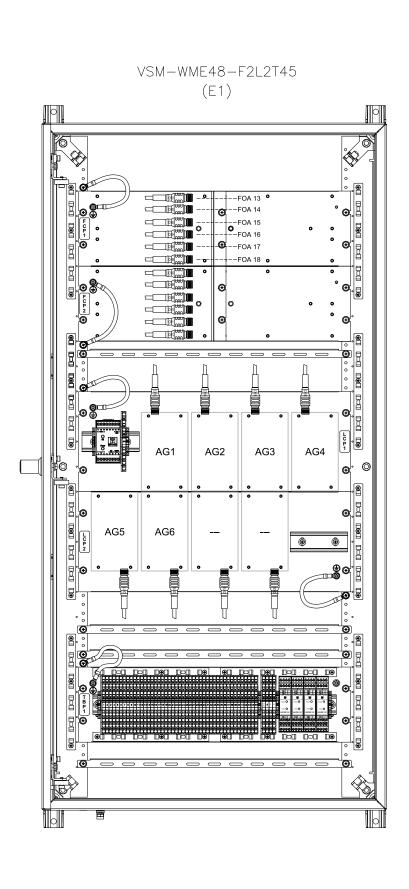
В

С

A		
В		
С		

D

1



2

WALLMOUNT ENCLOSURE	VCH TAO		TION BOX CONNEC			
VSM-WML48-F2L2T45	VSM TAG	SIZE (HxWxD) IN.	INPUT SENSOR	CABLE INPUT TAG	TERMINAL BLOCK #	CABLE OUTPUT TA
	E1	48x24x8	FOA13	F0A13/E1-1	1	E1-1/E6-7
			FOA14	FOA14/E1-2	2	E1-2/E6-8
			FOA15	FOA15/E1-3	3	E1-3/E6-9
			FOA16	FOA16/E1-4	4	E1-4/E6-10
			FOA17	FOA17/E1-5	5	E1-5/E6-11
			FOA18	FOA18/E1-6	6	E1-6/E6-12
			TWR1	TWR1/E1-7	7	E1-7/E6-38
			AG1	AG1/E1-13	13	E1-13/E6-1
			AG2	AG2/E1-14	14	E1-14/E6-2
			AG3	AG3/E1-15	15	E1-15/E6-3
			AG4	AG4/E1-16	16	E1-16/E6-4
			AG5	AG5/E1-17	17	E1-17/E6-5
			AG6	AG6/E1-18	18	E1-18/E6-6
		·		· · ·		· · ·
		l	MFP1	MFP1/E1-MFC	MFC	E1-MFC/E6-27
					Vdc	E1-H1PWR/E6-2
			SCT1-45	SCT1-45/E1-H1	<u> </u>	
					A-	E1-H1RS/E6-30
					B+	
		I	· · · · · · · · · · · · · · · · · · ·	I	Vda	
				-	Vdc 上	E1-H1PWR/E6-2
			SCT1-46-90	SCT46-90/E1-H2		
				-	A-	E1-H1RS/E6-30
		,			B+	
		ſ	<b>r</b>	[ [	Vdc	
				-		E1-H1PWR/E6-2
			SCT1-181-225	SCT181-225/E1-H5		
				-	A-	E1-H1RS/E6-30
					B+	
		1	r	Г Г Г		
				-	Vdc	E1-H1PWR/E6-2
		-	SCT1_226_270	ст1-226-270 SCT226-270/Е1-Н6		
			3011-220-270	SUIZZO-Z/U/EI-HO		
			3011-220-270	SCI220-270/EI-H0	A- B+	E1-H1RS/E6-30

00 Trev		C copyright vibrosystm me.2023	Section: F JUNCTION BOXE	S (WME) INTERNAL COMPONENTS &	WIRING	Title:	ZOOM MO
CADRERHC	VIBROSYSTM	VibroSystM inc. reserves the right to make changes without prior notice to improve the product.	Product number: VSM-CAB-MINE1-100	Drawing number: VSM—DWG—MINE1—100	Sheet: Rev. : F1 1		
	1	2		3			

MONITORING SYSTEM FOR PROJECT: YOUR MINING SITE JUNCTION BOXES DETAILS

4

А

В

С

D

#### VSM-DWG-MINE1-100-F1-1.DWG

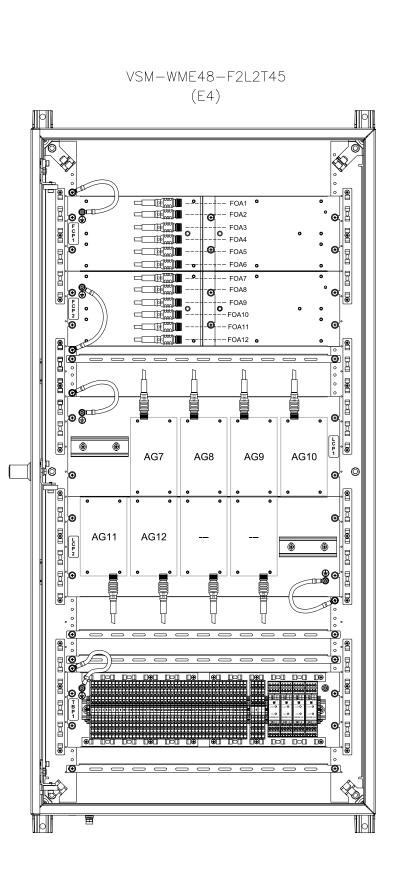
А

В

С

D

1



2

WALLMOUNT ENCLOSURE			TION BOX CONNE		1	1
	VSM TAG	SIZE (HxWxD) IN.	INPUT SENSOR	CABLE INPUT TAG	TERMINAL BLOCK #	CABLE OUTPUT TA
VSM-WME48-F2L2T45	E4	48x24x8	FOA1	FOA1/E4-1	1	E4-1/E7-8
			F0A2	FOA2/E4-2	2	E4-2/E7-9
			F0A3	FOA3/E4-3	3	E4-3/E7-10
			FOA4	FOA4/E4-4	4	E4-4/E7-11
			FOA5	FOA5/E4-5	5	E4-5/E7-12
			FOA6	FOA6/E4-6	6	E4-6/E7-13
			FOA7	FOA7/E4-7	7	E4-7/E7-14
			FOA8	FOA8/E4-8	8	E4-8/E7-15
			FOA9	FOA9/E4-9	9	E4-9/E7-16
			FOA10	FOA10/E4-10	10	E4-10/E7-17
			FOA11	FOA11/E4-11	11	E4-11/E7-18
			FOA12	F0A12/E4-12	12	E4-12/E7-19
			AG7	AG7/E4-13	13	E4-13/E7-1
			AG8	AG8/E4-14	14	E4-14/E7-2
			AG9	AG9/E4-15	15	E4-15/E7-3
			AG10	AG10/E4-16	16	E4-16/E7-4
			AG11	AG11/E4-17	17	E4-17/E7-5
			AG12	AG12/E4-18	18	E4-18/E7-6
					Vdc	
					4	E4-H3PWR/E7-2
			SCT91-135	SCT91-135/E4-H3	A-	
					B+	E4-H3RS/E7-30
					Vdc	
					Vdc	E4-H3PWR/E7-2
			SCT136-180	SCT136-180/E4-H4	4	
			SCT136-180	SCT136-180/E4-H4	⊥ A	E4-H3PWR/E7-2 E4-H3RS/E7-30
			SCT136-180	SCT136-180/E4-H4	4	
			SCT136-180	SCT136-180/E4-H4	≟ A	
			SCT136-180	SCT136-180/E4-H4	A- B+ Vdc	E4-H3RS/E7-30
			SCT136-180 SCT271-315	SCT136-180/E4-H4 SCT271-315/E4-H7	 A	E4-H3RS/E7-30
					⊥ A	E4-H3RS/E7-3C E4-H3PWR/E7-2
					 A	E4-H3RS/E7-3C E4-H3PWR/E7-2
					⊥       A-       B+       Vdc       ⊥       A-       B+       Vdc	E4-H3RS/E7-30 E4-H3PWR/E7-29
					↓       A-       B+       Vdc       ↓       A-       B+       Vdc       ↓	E4-H3RS/E7-30 E4-H3PWR/E7-29 E4-H3RS/E7-30
			SCT271-315	SCT271-315/E4-H7	⊥       A-       B+       Vdc       ⊥       A-       B+       Vdc	E4-H3RS/E7-30 E4-H3PWR/E7-2 E4-H3RS/E7-30



# ZOOM MONITORING SYSTEM FOR PROJECT: YOUR MINING SITE JUNCTION BOXES DETAILS

4

А

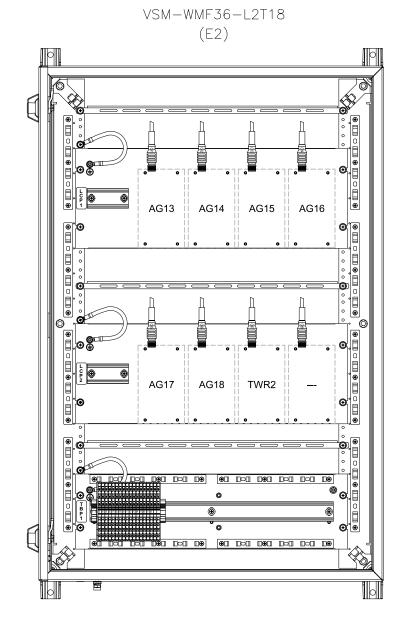
В

С

D

VSM-DWG-MINE1-100-F2-1.DWG

		JUNCI	TION BOX CONNEC	CTIONS DETAILS		
WALLMOUNT ENCLOSURE	VSM TAG	SIZE (HxWxD) IN.	INPUT SENSOR	CABLE INPUT TAG	TERMINAL BLOCK #	CABLE OUTPUT TAG
VSM-WME36-L2T18	E2	36x24x8	AG13	AG13/E2-1	1	E2-1/E6-31
			AG14	AG14/E2-2	2	E2-2/E6-32
			AG15	AG15/E2-3	3	E2-3/E6-33
			AG16	AG16/E2-4	4	E2-4/E6-34
			AG17	AG17/E2-5	5	E2-5/E6-35
			AG18	AG18/E2-6	6	E2-6/E6-36
			TWR2	TWR2/E2-7	7	E2-7/E6-39



D	

А

В

С

VIBROSYS
1

1

	C copyright vibrosystm me.2023	Section: F JUNCTION BOXE	S (WME) INTERNAL COMPONENTS &	WIRING	Title: ZO	ом мо
STM	VibroSystM inc. reserves the right to make changes without prior notice to improve the product.	Product number: VSM-CAB-MINE1-100	Drawing number: VSM-DWG-MINE1-100	Sheet: Rev. : F3 1		

3

3

А

В

С

D

MONITORING SYSTEM FOR PROJECT: YOUR MINING SITE JUNCTION BOXES DETAILS

4

VSM-DWG-MINE1-100-F3-1.DWG

	1	2	3	4
A		VSM-WME36-L2T18 (E3)	JUNCTION BOX CONNE WALLMOUNT ENCLOSURE VSM TAG SIZE (HxWxD) IN. INPUT SENSOR VSM-WME36-L2T18 E3 36x24x8 AG19 AG20 AG21 AG22 AG23 AG24	
В		AG19 AG20 AG21 AG22		
C				

D

	C Copyright VibroSystM inc.2023	Section: F JUNCTION BOXE	S (WME) INTERNAL COMPONENTS &	WIRING	Title:	Z
VIBROSYSTM	VibroSystM inc. reserves the right to make changes without prior	Product number:	Drawing number:	Sheet: Rev. :	1	
	notice to improve the product.	VSM-CAB-MINE1-100	VSM-DWG-MINE1-100	F4 1		
1	2		3			

А

В

С

D

ZOOM MONITORING SYSTEM FOR PROJECT: YOUR MINING SITE JUNCTION BOXES DETAILS

	WALLMOUNT ENCLOSURE VSM-WME24-T66	VSM TAG E6		INPUT SENSOR AG1 AG2 AG3	CABLE INPUT TAG E1-13/E6-1 E1-14/E6-2 E1-15/E6-3	TERMINAL BLOCK # 1 2	CABLE OUTPUT TAG E6-1/C1-ZU1S01 E6-2/C1-ZU1S02
	VSM-WME24-T66	E6	24x24x8	AG2	E1-14/E6-2	2	
							E6-2/C1-ZU1S02
				AG3	E1-15/E6-3		
			t i i i i i i i i i i i i i i i i i i i		21 10/20 0	3	E6-3/C1-ZU2S03
				AG4	E1-16/E6-4	4	E6-4/C1-ZU2S04
				AG5	E1-17/E6-5	5	E6-5/C1-ZU2S05
				AG6	E1-18/E6-6	6	E6-6/C1-ZU2S06
VSM-WME24-T66				FOA13	E1-1/E6-7	7	E6-7/C1-ZU1S09
				FOA14	E1-2/E6-8	8	E6-8/C1-ZU1S10
(E6)				FOA15	E1-3/E6-9	9	E6-9/C1-ZU1S11
				FOA16	E1-4/E6-10	10	E6-10/C1-ZU1S12
				FOA17	E1-5/E6-11	11	E6-11/C1-ZU1S13
				FOA18	E1-6/E6-12	12	E6-12/C1-ZU1S14
				SCV1	SCV1/E6-15	15	E6-15/C1-ZU3S05
				SCV2	SCV2/E6-16	16	E6-16/C1-ZU3S06
				SCV3	SCV3/E6-17	17	E6-17/C1-ZU3S07
				SCV4	SCV4/E6-18	18	E6-18/C1-ZU3S08
					,		E6-19/C1-ZU3S09
				SCV6	SCV6/E6-20		E6-20/C1-ZU3S10
					,		E6-24/C1-ZU4S09
					,		E6-25/C1-ZU4S10
					,		E6-26/C1-ZU4S11
					,		E6-27/C1-ZU4S15
					,		E6-29/C1-PWR
			-				E6-30/C1-ZU1RSx
			-				E6-31/C1-ZU3S01
			-				E6-32/C1-ZU3S02
							E6-33/C1-ZU3S03
							E6-34/C1-ZU3S04
			-		,		E6-35/C1-ZU4S01
			-		,		E6-36/C1-ZU4S02
			-		,		E6-38/C1-ZU1S15
			-				E6-39/C1-ZU1S16
			-		,		E6-65/C1-SYN1
			l	STNZ	STN2/E0-00	66	E6-66/C1-SYN2
					F0A18       F0A18         F0A18       S0V1         S0V2       S0V3         S0V3       S0V3         S0V6       S0V6         S0V6       S0V6         S0V7       S0V6         S0V6       S0V6         S0V7       S0V6         S0V6       S0V6         S0V7       S0V6         S0V7       S0V6         S0V6       S0V6         S0V7       S0V7         WFP1       WFP1         WF91       WF91         WF91 </th <th>Image: Control of Contro</th> <th>FONTE       E1-4/16-11       11         FONTE       E1-4/16-12       12         FONTE       E1-4/16-12       12         FONTE       E1-4/16-13       12         FONTE       E1-4/16-14       10         FONTE       E1-4/16-14       10         FONTE       E1-4/16-14       12         SCV1       SCV1/16-15       15         SCV2       SCV2/16-16       16         SCV3       SCV2/16-10       17         SCV4       SCV2/16-16       16         SCV3       SCV2/16-17       17         SCV4       SCV2/16-18       16         SCV3       SCV2/16-19       19         SCV3       SCV2/16-10       19         SCV3       SCV1/16-22       20         SCV3       SCV1/16-22       20         SCV1       SV1/16-22       21         SV1       SV1/16-22       23         SV1       SV1/16-22       23         SV1       SV1/16-23       33         A018       E2-4/16-33       33         A018       E2-4/16-34       34         A018       E2-4/16-35       35         A018       E2-</th>	Image: Control of Contro	FONTE       E1-4/16-11       11         FONTE       E1-4/16-12       12         FONTE       E1-4/16-12       12         FONTE       E1-4/16-13       12         FONTE       E1-4/16-14       10         FONTE       E1-4/16-14       10         FONTE       E1-4/16-14       12         SCV1       SCV1/16-15       15         SCV2       SCV2/16-16       16         SCV3       SCV2/16-10       17         SCV4       SCV2/16-16       16         SCV3       SCV2/16-17       17         SCV4       SCV2/16-18       16         SCV3       SCV2/16-19       19         SCV3       SCV2/16-10       19         SCV3       SCV1/16-22       20         SCV3       SCV1/16-22       20         SCV1       SV1/16-22       21         SV1       SV1/16-22       23         SV1       SV1/16-22       23         SV1       SV1/16-23       33         A018       E2-4/16-33       33         A018       E2-4/16-34       34         A018       E2-4/16-35       35         A018       E2-

CADREBH2023revB

1

VIBROSYSTM	C Copyright VibroSystM inc.2023	Section: F JUNCTION BC	ES (WME) INTERNAL COMPONENTS & WIRING			ZOOM MO	
VIBROSY	SIN	VibroSystM inc. reserves the right to make changes without prior notice to improve the product.	Product number: VSM-CAB-MINE1-100	Drawing number: VSM-DWG-MINE1-100	Sheet: Rev. : F5 1		
1		2		3			

2

MONITORING SYSTEM FOR PROJECT: YOUR MINING SITE JUNCTION BOXES DETAILS

4

4

А

В

С

D

VSM-DWG-MINE1-100-F5-1.DWG

		JUNCTION BOX CONNECTIONS DETAILS					
	WALLMOUNT ENCLOSURE VSM TAG SIZE (H		SENSOR	CABLE INPUT TAG	TERMINAL BLOCK #	CABLE OUTPUT TAG	
			AG7	E4-13/E7-1	1	E7-1/C1-ZU1S07	
			AG8	E4-14/E7-2	2	E7-2/C1-ZU1S08	
			AG9	E4-15/E7-3	3	E7-3/C1-ZU2S01	
A		A	AG10	E4-16/E7-4	4	E7-4/C1-ZU2S02	
		4	AG11	E4-17/E7-5	5	E7-5/C1-ZU2S03	
		A	AG12	E4-18/E7-6	6	E7-6/C1-ZU2S04	
	VSM-WME24-T66	F	FOA1	E4-1/E7-8	8	E7-8/C1-ZU2S05	
		F	FOA2	E4-2/E7-9	9	E7-9/C1-ZU2S06	
	(E7)	F	FOA3	E4-3/E7-10	10	E7-10/C1-ZU2S07	
		F	FOA4	E4-4/E7-11	11	E7-11/C1-ZU2S08	
		F	FOA5	E4-5/E7-12	12	E7-12/C1-ZU2S09	
		F	FOA6	E4-6/E7-13	13	E7-13/C1-ZU2S1C	
		F	FOA7	E4-7/E7-14	14	E7-14/C1-ZU2S1	
		F	FOA8	E4-8/E7-15	15	E7-15/C1-ZU2S12	
		F	FOA9	E4-9/E7-16	16	E7-16/C1-ZU2S13	
		F	OA10	E4-10/E7-17	17	E7-17/C1-ZU2S14	
		F	OA11	E4-11/E7-18	18	E7-18/C1-ZU2S15	
		F	OA12	E4-12/E7-19	19	E7-19/C1-ZU2S16	
		5	SCV7	SCV7/E7-20	20	E7-20/C1-ZU3S1	
		5	SCV8	SCV8/E7-21	21	E7-21/C1-ZU3S12	
3	₅©§ ₽	5	SCV9	SCV9/E7-22	22	E7-22/C1-ZU3S13	
			SCV10	SCV10/E7-23	23	E7-23/C1-ZU3S14	
			SCV11	SCV11/E7-24	24	E7-24/C1-ZU3S15	
			SCV12	SCV12/E7-25	25	E7-25/C1-ZU3S16	
			SCF3	SCF3/E7-26	26	E7-26/C1-ZU4S12	
			SCF4	SCF4/E7-27	27	E7-27/C1-ZU4S1	
			SPV2	SPV2/E7-28	28	E7-28/C1-ZU4S1	
			/S-200	E4-H3PWR/E7-29	29	E7-29/C1-PWR	
			/S-200	E4-H3RS/E7-30	30	E7-30/C1-ZU2RS	
			AG19	E3-1/E7-31	31	E7-31/C1-ZU4S0	
			AG20	E3-2/E7-32	32	E7-32/C1-ZU4S04	
			AG21	E3-3/E7-33	33	E7-33/C1-ZU4S05	
			AG22	E3-4/E7-34	34	E7-34/C1-ZU4S06	
			AG23	E3-5/E7-35	35	E7-35/C1-ZU4S07	
		A	AG24	E3-6/E7-36	36	E7-36/C1-ZU4S08	

CADREBH2023 revB

D

1

	© Copyright VibroSystM inc.2023	Section: F JUNCTION BOXES	S (WME) INTERNAL COMPONENTS &	WIRING	Title: ZOC	DM M
VIBROSYSTM	VibroSystM inc. reserves the right to make changes without prior notice to improve the product.	Product number: VSM-CAB-MINE1-100	Drawing number: VSM—DWG—MINE1—100	Sheet: Rev. : F6 1		
1	2		3			

# MONITORING SYSTEM FOR PROJECT: YOUR MINING SITE JUNCTION BOXES DETAILS

4

А

В

С

D

VSM-DWG-MINE1-100-F6-1.DWG