



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

Section	Description
A. High level diagrams & network details	Includes the general arrangement, including the system overview, system flowchart, block diagram, and finally the network layout.
B. 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

ZOOM MONITORING SYSTEM FOR PROJECT: YOUR MINING SITE

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				DRAFTSMAN	
Rev:	Date	Description	Drawn by:	Checked by:	Approved by:	

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CADREBH2023revB

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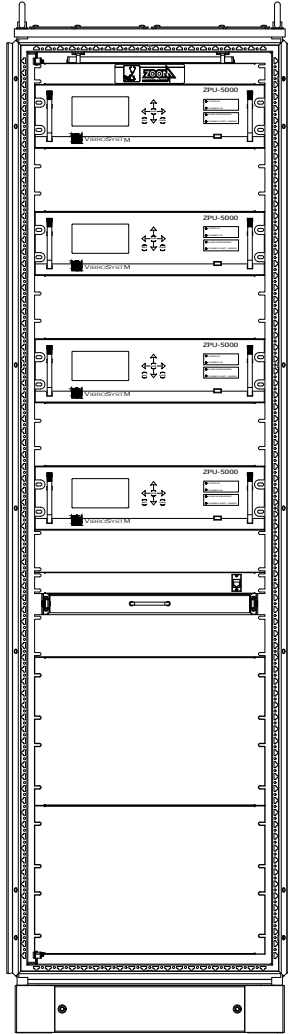
A

B

C

D

VIBROSYSTEM ZOOM
MONITORING CABINET



VM-GMD (24X)



MFP-100 (1X)



TWR-200 (2X)



FOA-100 (18X)



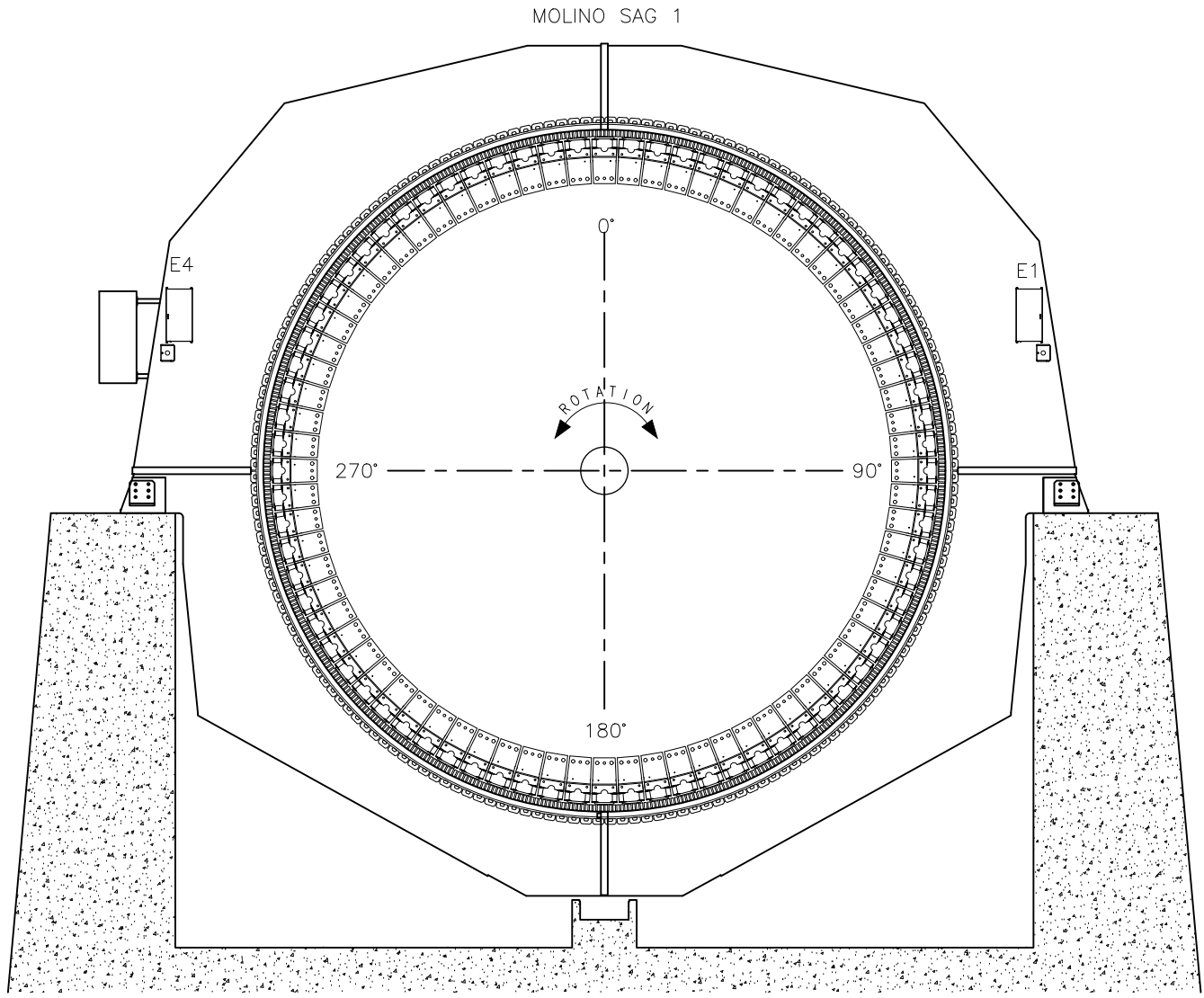
VSM797S (18X)



SYNCHRO (2X)



TWS-200 (360X)



FEED SIDE

LEGEND



AIR GAP (VM-GMD)



MAGNETIC FLUX



ABSOLUTE VIBRATION



TEMPERATURE TWS



SYNCHRO



VIBROSYSTEM

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Section: A

HIGH LEVEL DIAGRAMS & NETWORK DETAILS

Product number:

VSM-CAB-MINE1-100

Drawing number:

VSM-DWG-MINE1-100

Sheet:

A2

Rev. :

1

Title:

ZOOM MONITORING SYSTEM PROJECT: YOUR MINING SITE
FLOW CHART

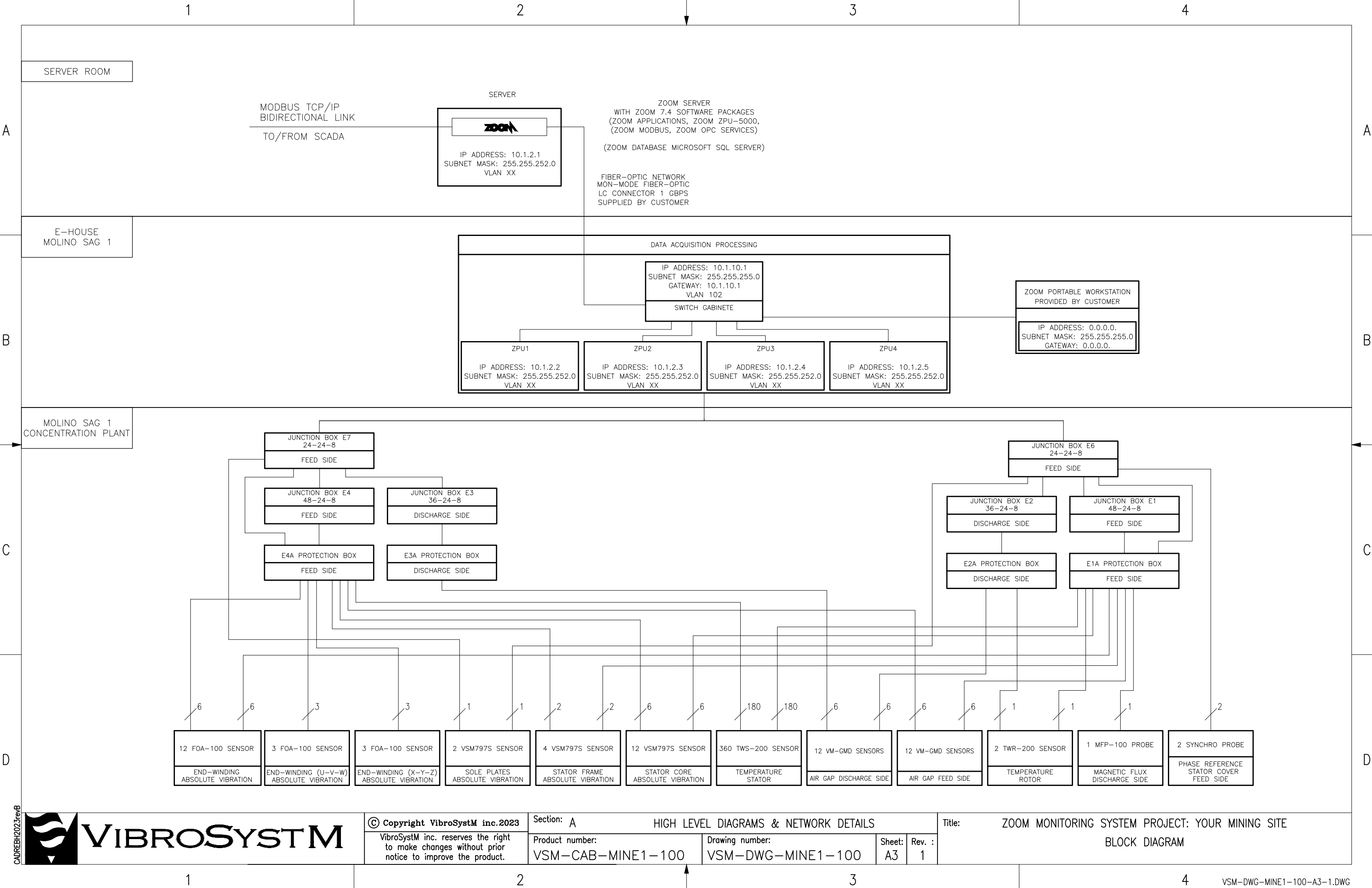
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VSM-DWG-MINE1-100-A2-1.DWG



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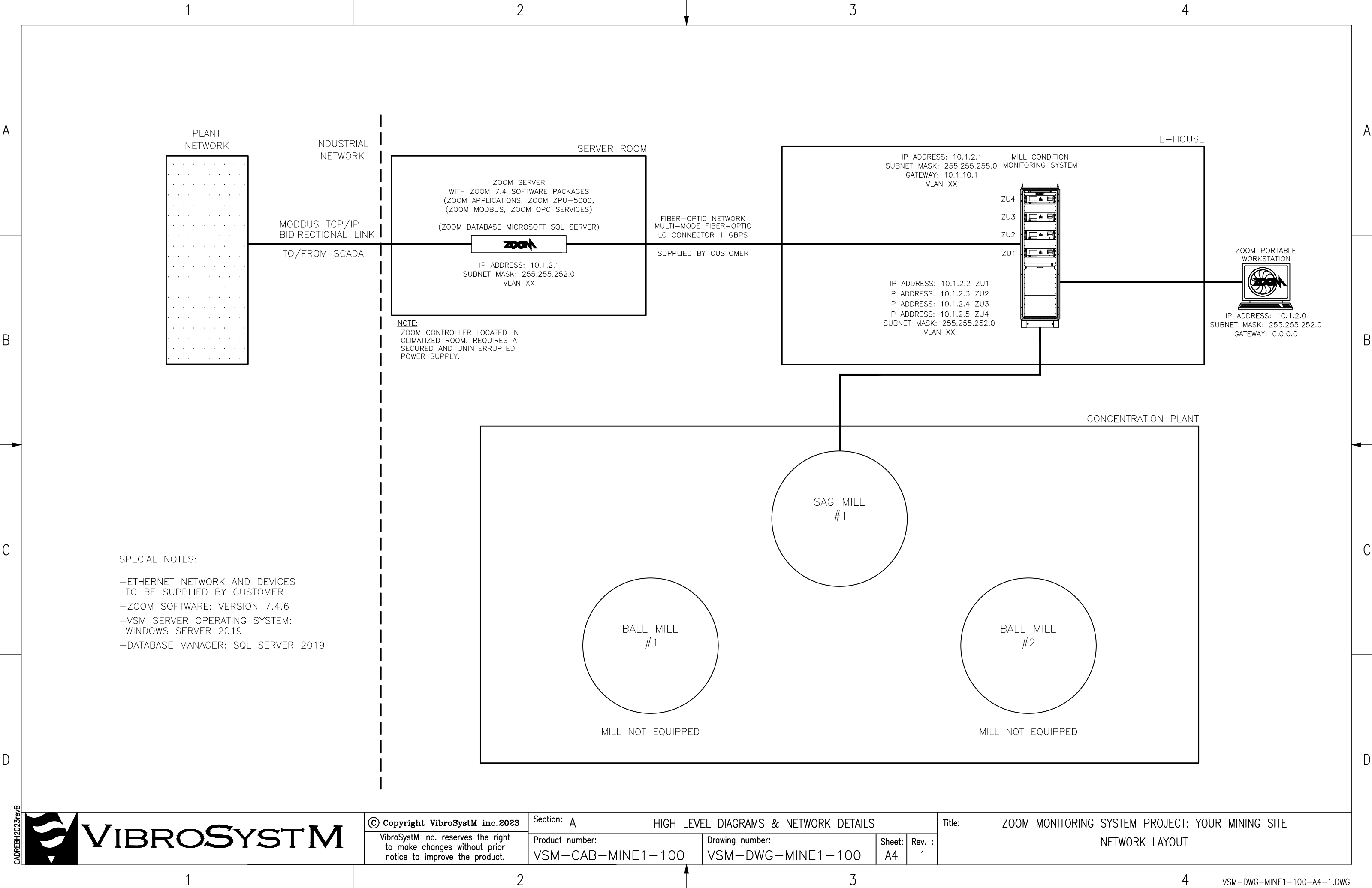


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Section: A	HIGH LEVEL DIAGRAMS & NETWORK DETAILS		
Product number: VSM-CAB-MINE1-100	Drawing number: VSM-DWG-MINE1-100	Sheet: A3	Rev. : 1

Title:	ZOOM MONITORING SYSTEM PROJECT: YOUR MINING SITE BLOCK DIAGRAM
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A

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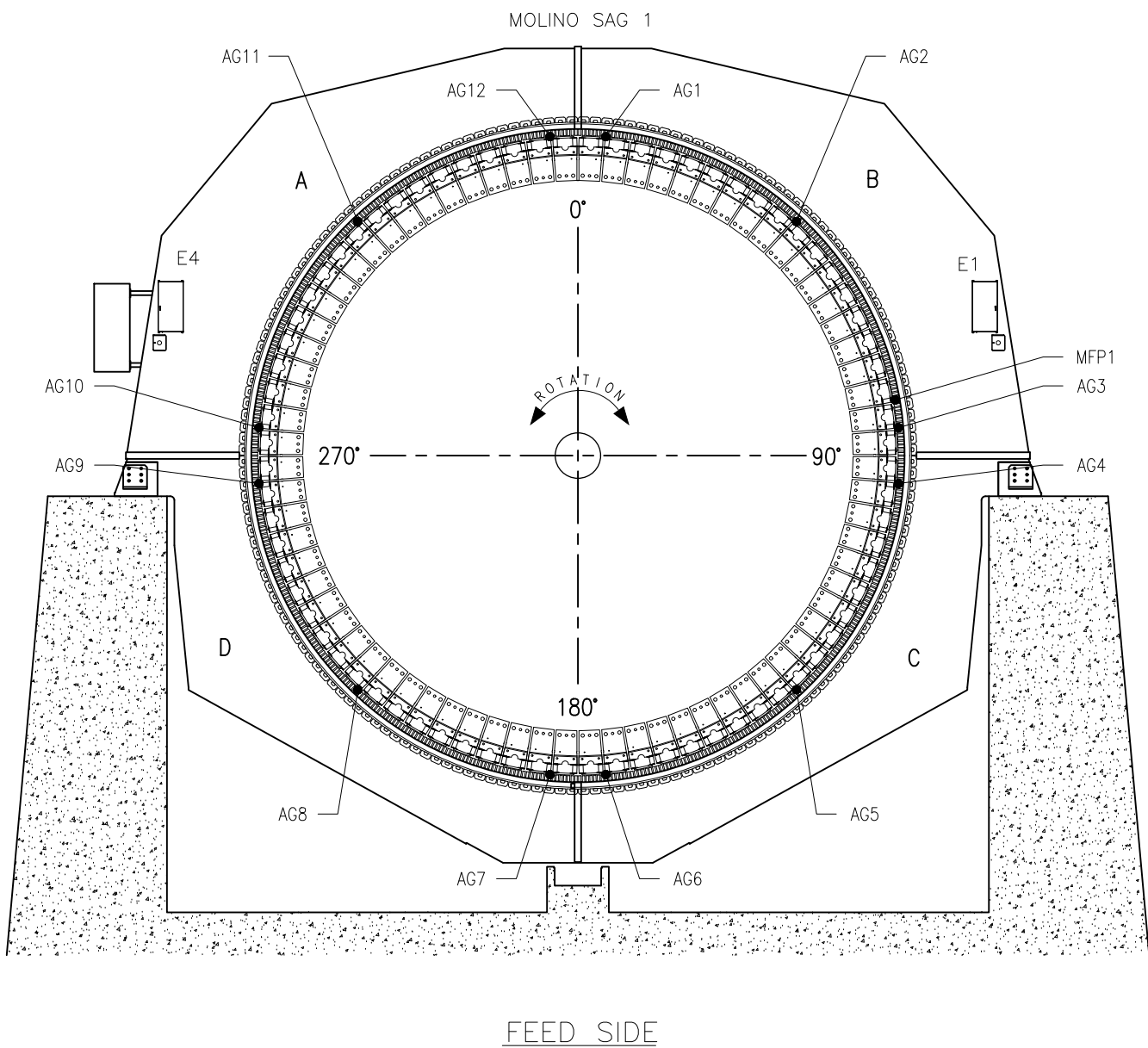
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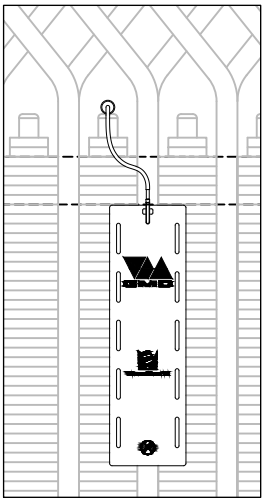
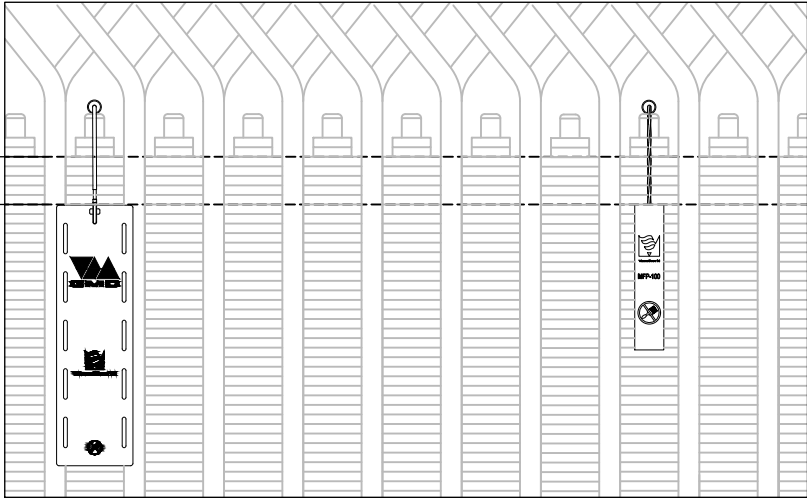
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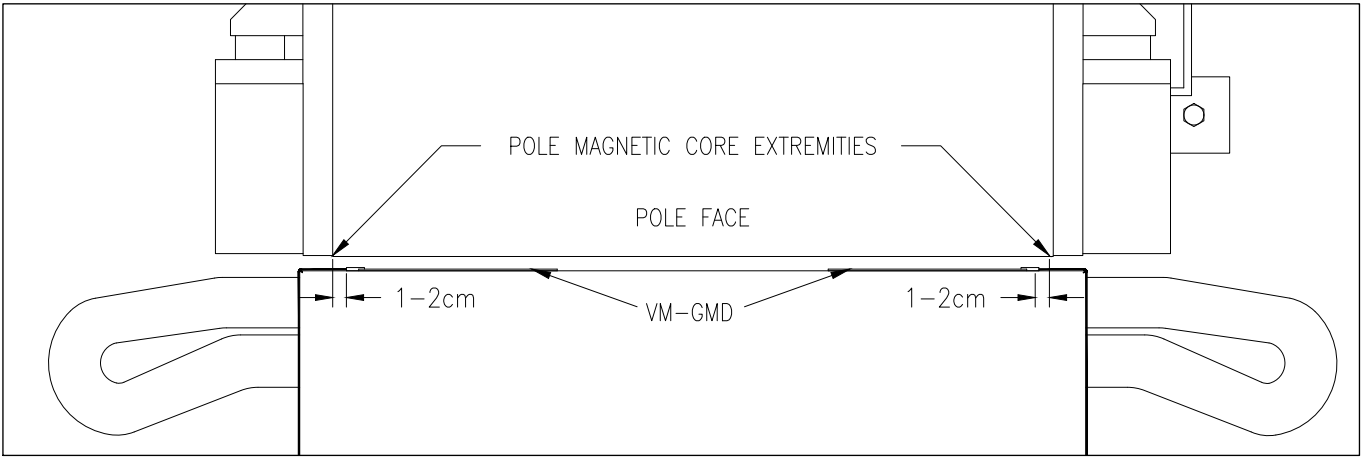


SENSOR DETAILS				
SENSOR #	MESURING AXIS	ANGLE	SLOT #	VIEW
AG1	RADIAL	5	31	B
AG2	RADIAL	43	88	B
AG3	RADIAL	85	152	B
AG4	RADIAL	95	166	B
AG5	RADIAL	133	223	B
AG6	RADIAL	175	287	B
AG7	RADIAL	185	301	B
AG8	RADIAL	223	358	B
AG9	RADIAL	265	422	B
AG10	RADIAL	275	436	B
AG11	RADIAL	313	493	B
AG12	RADIAL	355	17	B
MFP1	RADIAL	80	144-145	A

SENSOR'S TOP MUST BE
1-2 cm LOWER THAN
THE POLE MAGNETIC
CORE EXTREMITY
(SEE BELOW)



VIEW "A"
VIEW "B"
VM-GMD /MFP-100 LOCATION FRONT VIEW



VM-GMD LOCATION SIDE VIEW

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Section: B

MEASURING CHAINS LOCATIONS & INSTALLATION DETAILS

Product number:

VSM-CAB-MINE1-100

Drawing number:

VSM-DWG-MINE1-100

Sheet:

B1

Rev. :

1

Title:

ZOOM MONITORING SYSTEM FOR PROJECT: YOUR MINING SITE
AIR GAP & MAGNETIC FLUX SENSORS DETAILS FEED SIDE

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

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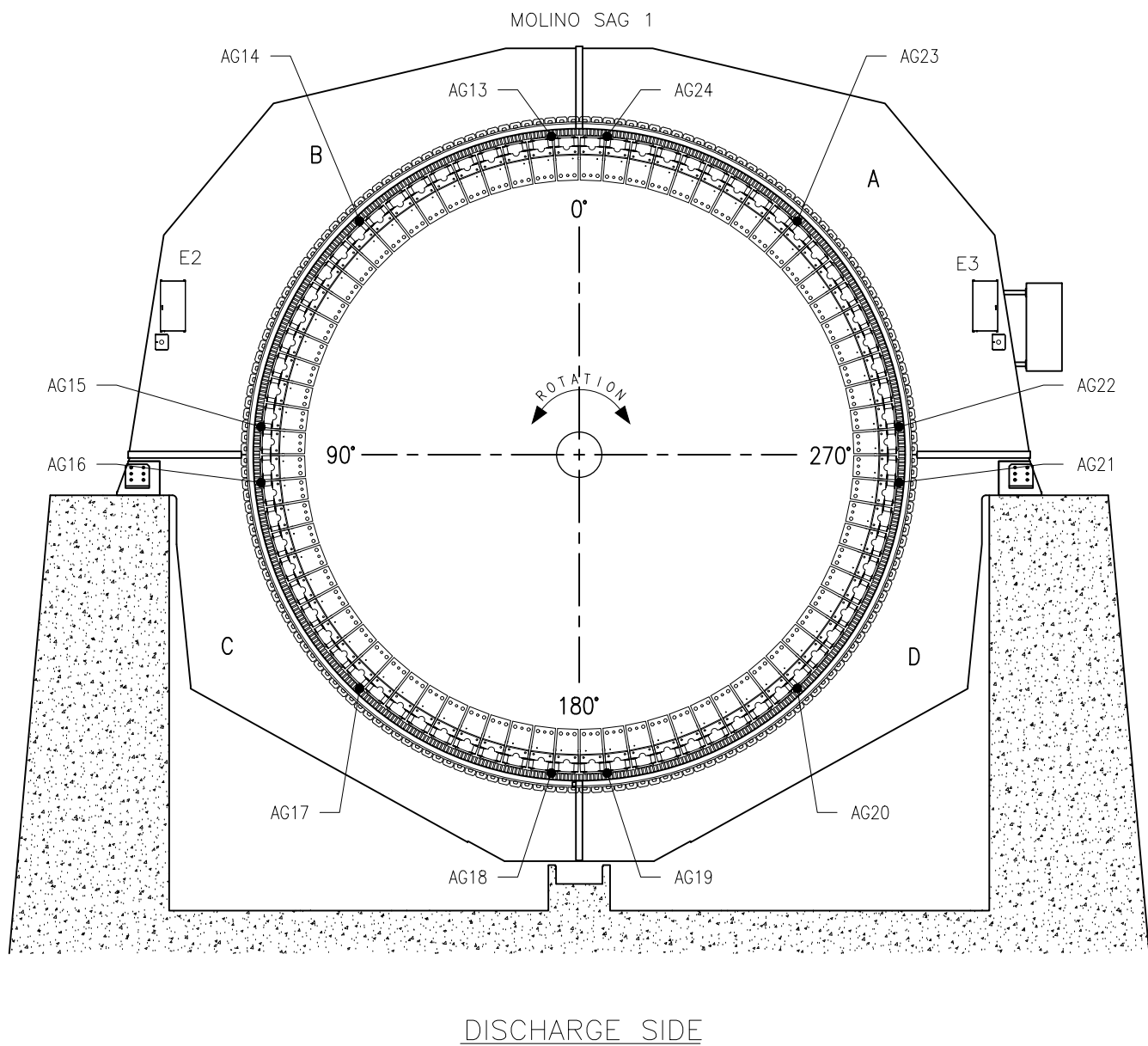
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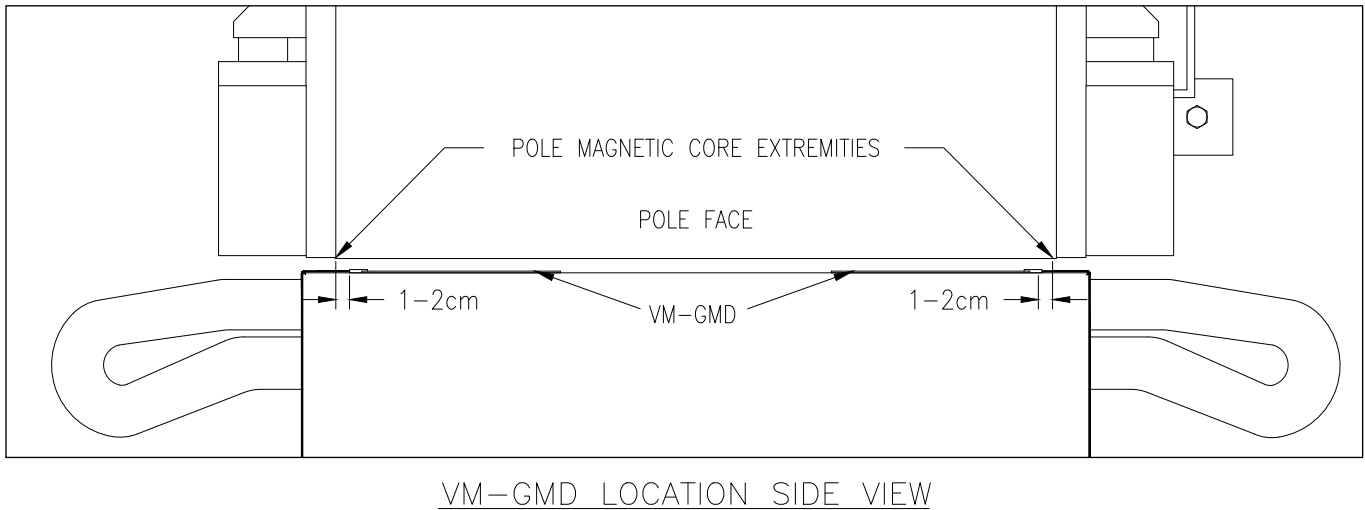
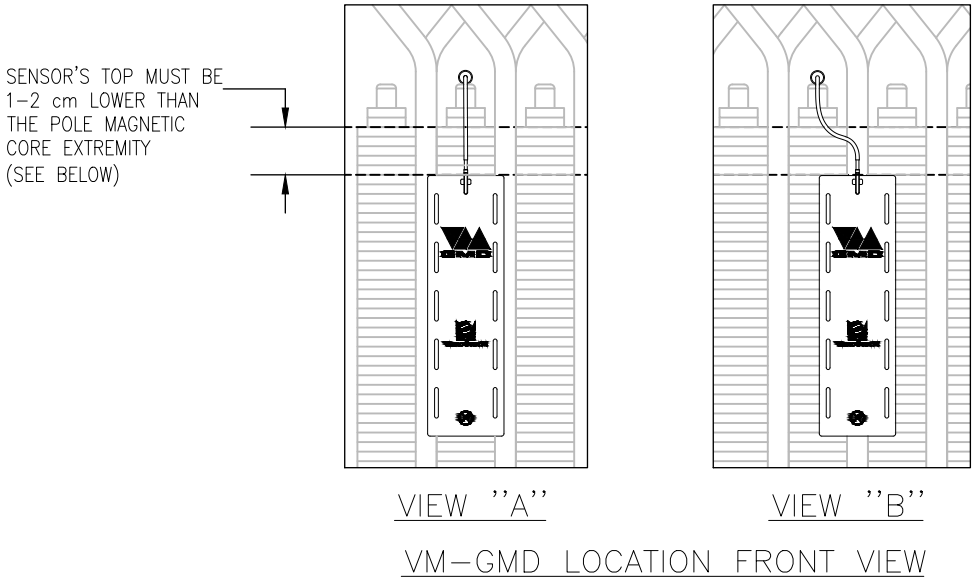
B

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SENSOR DETAILS				
SENSOR #	MESURING AXIS	REAL ANGLE	SLOT #	VIEW
AG13	RADIAL	5	31	B
AG14	RADIAL	43	88	B
AG15	RADIAL	85	152	B
AG16	RADIAL	95	166	B
AG17	RADIAL	133	223	B
AG18	RADIAL	175	287	B
AG19	RADIAL	185	301	B
AG20	RADIAL	223	358	B
AG21	RADIAL	265	422	B
AG22	RADIAL	275	436	B
AG23	RADIAL	313	493	B
AG24	RADIAL	355	17	B



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Section: B

MEASURING CHAINS LOCATIONS & INSTALLATION DETAILS

Product number:

VSM-CAB-MINE1-100

Drawing number:

VSM-DWG-MINE1-100

Sheet:

B2

Rev. :

1

Title:

ZOOM MONITORING SYSTEM FOR PROJECT: YOUR MINING SITE
AIR GAP & MAGNETIC FLUX SENSORS DETAILS DISCHARGE SIDE

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VSM-DWG-MINE1-100-B2-1.DWG

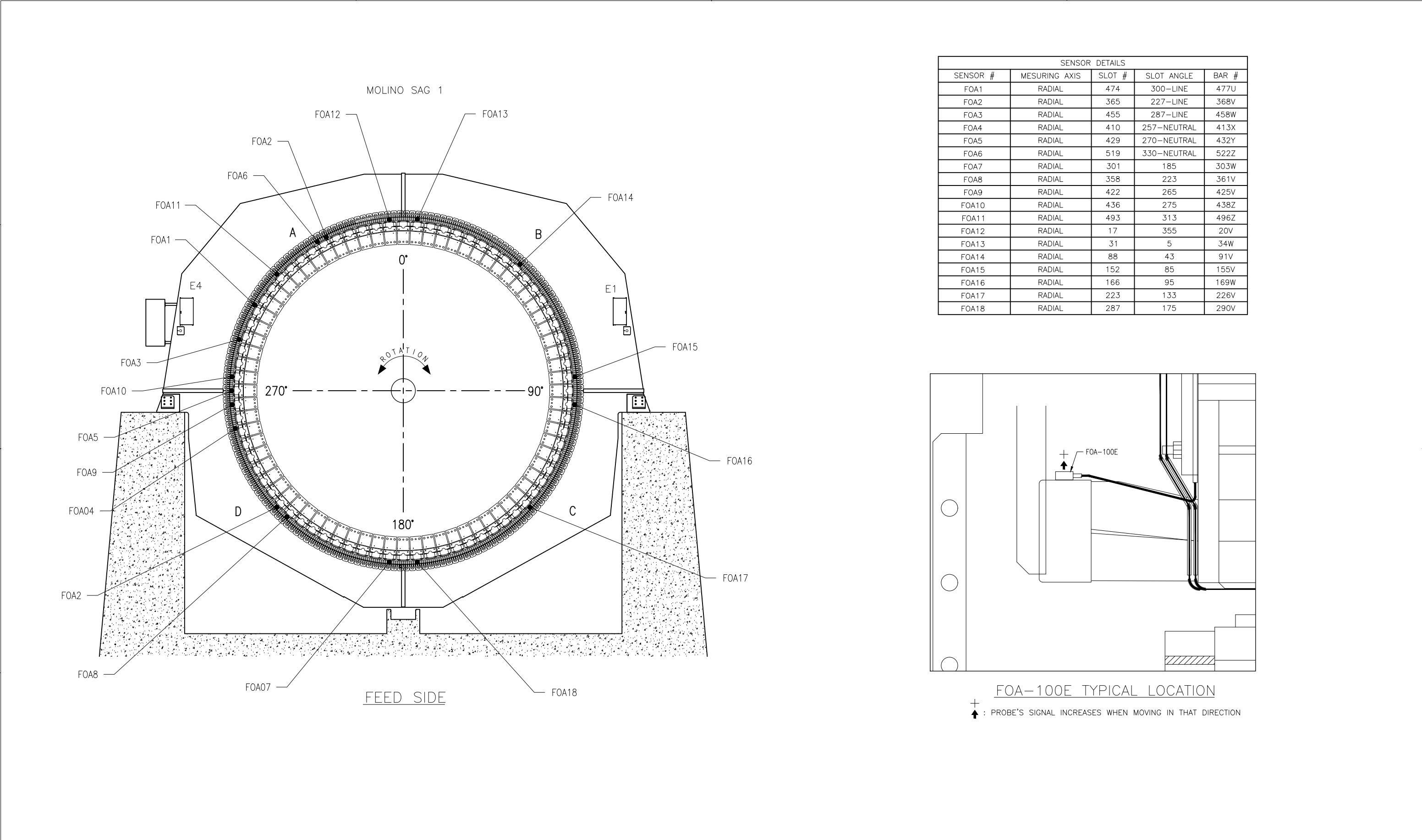
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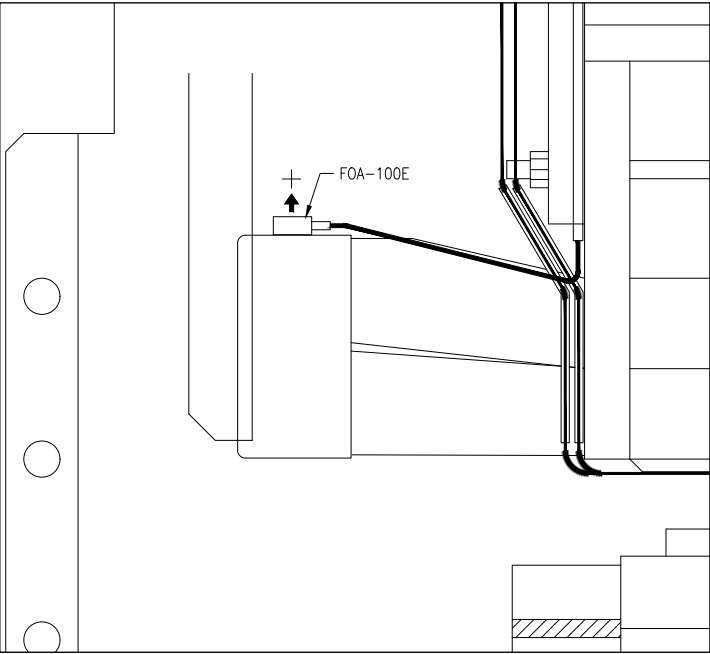
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SENSOR DETAILS				
SENSOR #	MESURING AXIS	SLOT #	SLOT ANGLE	BAR #
FOA1	RADIAL	474	300-LINE	477U
FOA2	RADIAL	365	227-LINE	368V
FOA3	RADIAL	455	287-LINE	458W
FOA4	RADIAL	410	257-NEUTRAL	413X
FOA5	RADIAL	429	270-NEUTRAL	432Y
FOA6	RADIAL	519	330-NEUTRAL	522Z
FOA7	RADIAL	301	185	303W
FOA8	RADIAL	358	223	361V
FOA9	RADIAL	422	265	425V
FOA10	RADIAL	436	275	438Z
FOA11	RADIAL	493	313	496Z
FOA12	RADIAL	17	355	20V
FOA13	RADIAL	31	5	34W
FOA14	RADIAL	88	43	91V
FOA15	RADIAL	152	85	155V
FOA16	RADIAL	166	95	169W
FOA17	RADIAL	223	133	226V
FOA18	RADIAL	287	175	290V



FOA-100E TYPICAL LOCATION

↑ : PROBE'S SIGNAL INCREASES WHEN MOVING IN THAT DIRECTION



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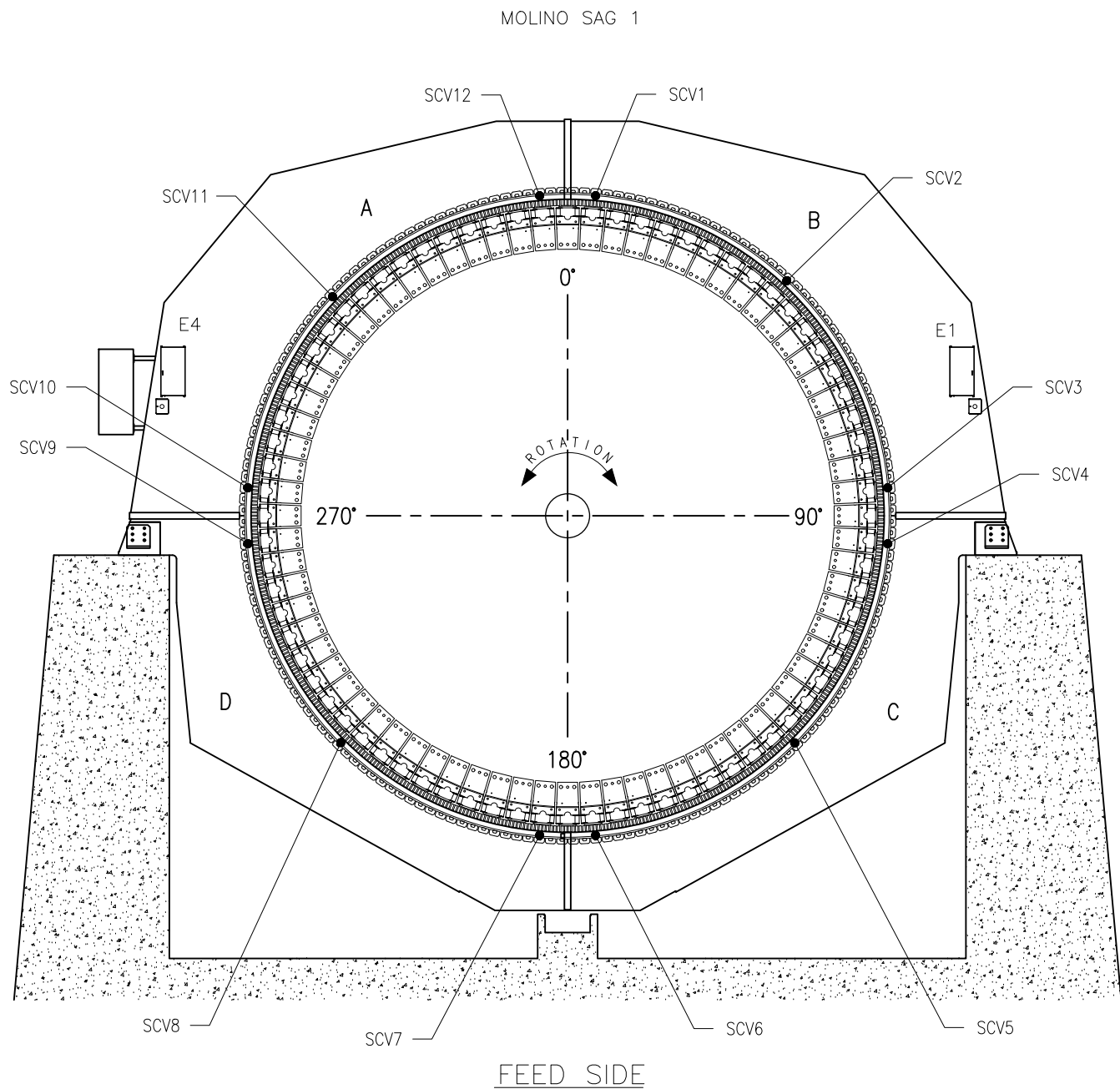
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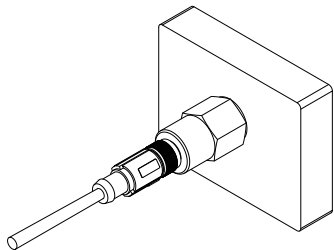
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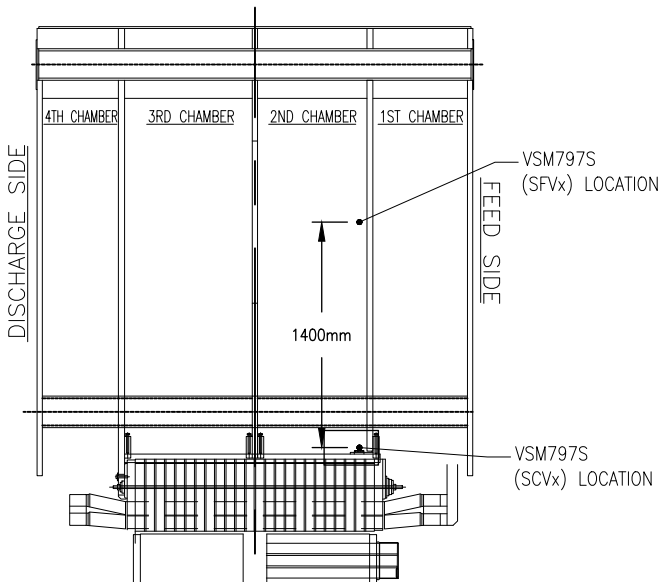


SENSOR DETAILS				
VSM TAG	MESURING AXIS	ANGLE	BETWEEN KEY BARS #	
SCV1	RADIAL	4	2	3
SCV2	RADIAL	46	23	24
SCV3	RADIAL	86	43	44
SCV4	RADIAL	94	47	48
SCV5	RADIAL	136	68	69
SCV6	RADIAL	176	88	89

SCV7	RADIAL	184	92	93
SCV8	RADIAL	226	113	114
SCV9	RADIAL	266	133	134
SCV10	RADIAL	274	137	138
SCV11	RADIAL	316	158	159
SCV12	RADIAL	356	178	179



VSM797S WITH ISOLATING PLATE



A

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Section: B

MEASURING CHAINS LOCATIONS & INSTALLATION DETAILS

Product number:

VSM-CAB-MINE1-100

Drawing number:

VSM-DWG-MINE1-100

Sheet:

B4

Rev. :

1

Title:

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

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VSM-DWG-MINE1-100-B4-1.DWG

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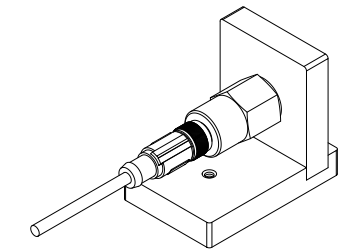
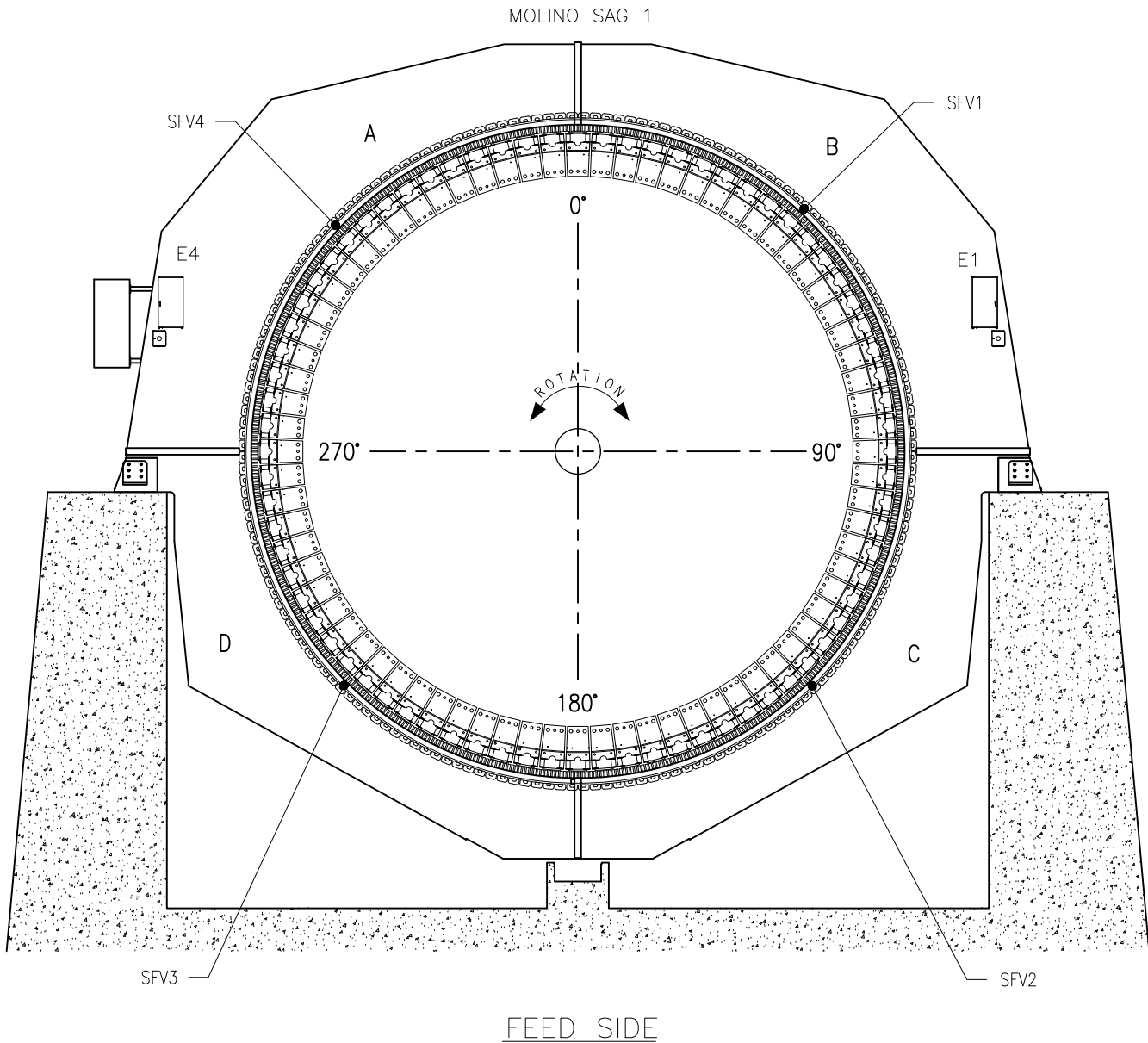
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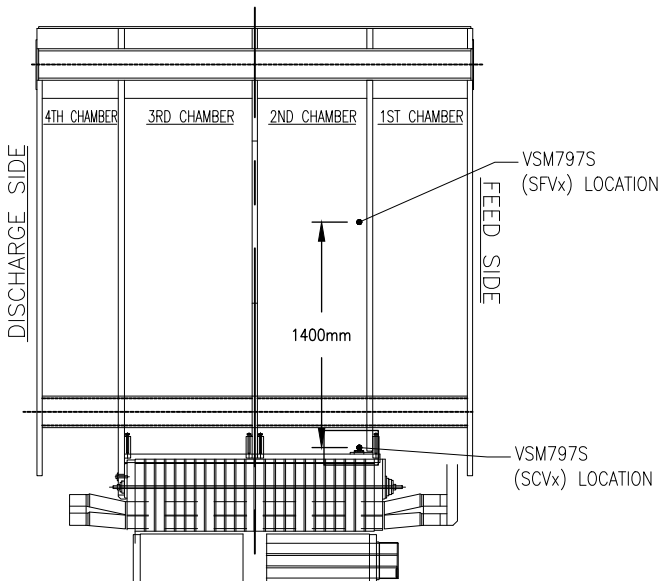
D

SENSOR DETAILS				
VSM TAG	MESURING AXIS	ANGLE	BETWEEN KEY BARS #	
SFV1	RADIAL	46	23	24
SFV2	RADIAL	136	68	69

SFV3	RADIAL	226	113	114
SFV4	RADIAL	316	158	159



VSM797S WITH 90° ISOLATING PLATE



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Section: B

MEASURING CHAINS LOCATIONS & INSTALLATION DETAILS

Product number:

VSM-CAB-MINE1-100

Drawing number:

VSM-DWG-MINE1-100

Sheet:

B5

Rev. :

1

Title:

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

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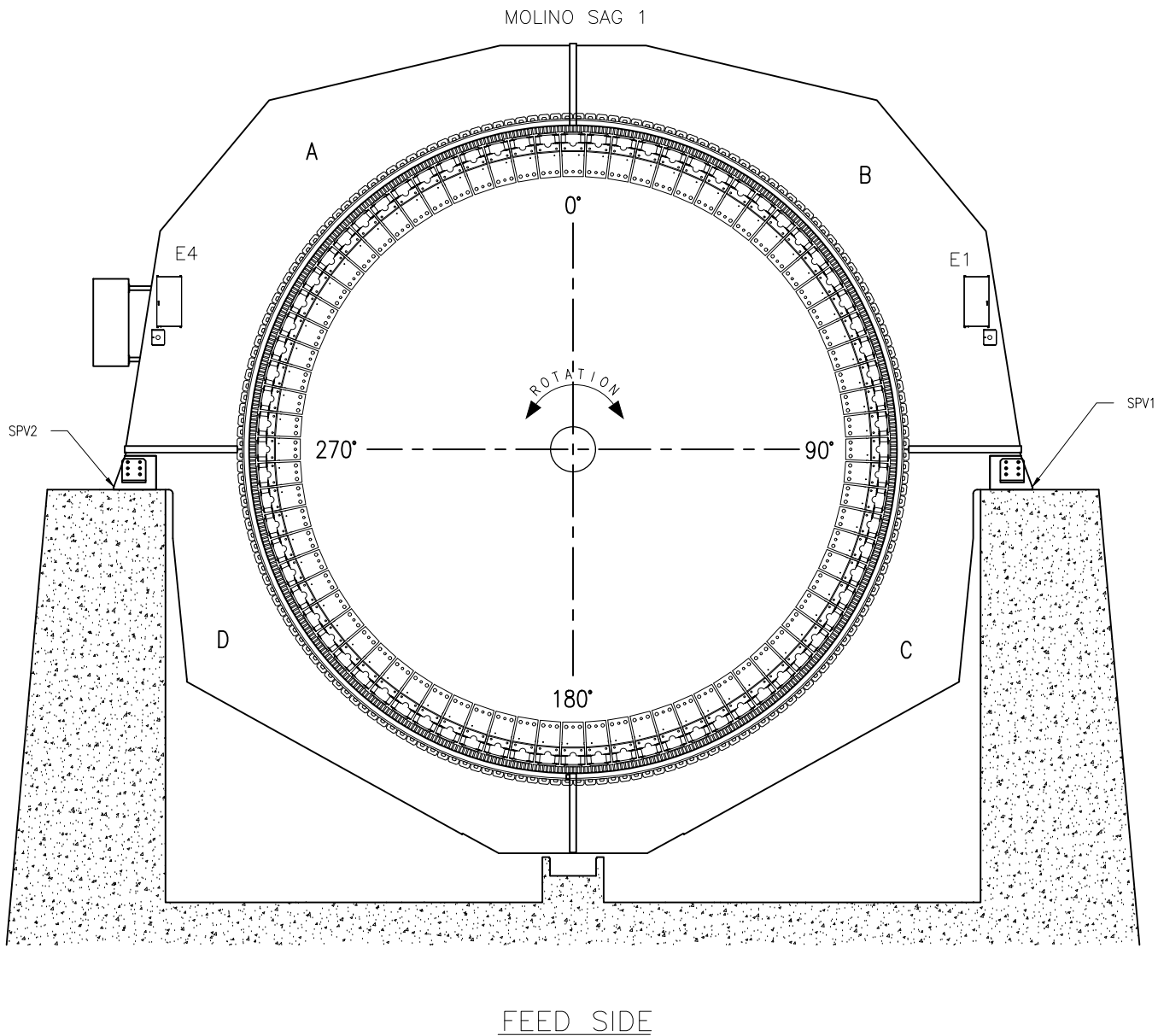
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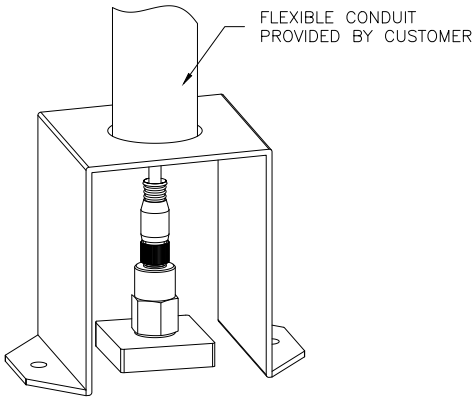
B

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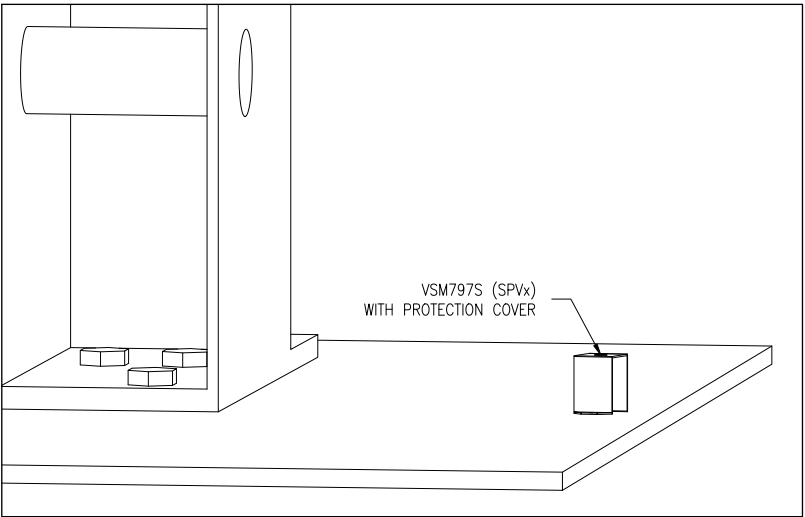
D



SENSOR DETAILS		
VSM TAG	MESURING AXIS	TYPICAL LOCATION
SPV1	VERTICAL	90°
SPV2	VERTICAL	270°



VSM797S WITH ISOLATING PLATE & PROTECTION COVER



VSM797S (SPVx) LOCATION

THE LOCATION MUST NOT
INTERFERE WHEN CHANGING THE
STATOR IN MAINTENANCE POSITION

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Section: B

MEASURING CHAINS LOCATIONS & INSTALLATION DETAILS

Product number:

VSM-CAB-MINE1-100

Drawing number:

VSM-DWG-MINE1-100

Sheet:

B6

Rev. :

1

Title:

ZOOM MONITORING SYSTEM FOR PROJECT: YOUR MINING SITE
SOLE PLATE SENSORS DETAILS

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VSM-DWG-MINE1-100-B6-1.DWG

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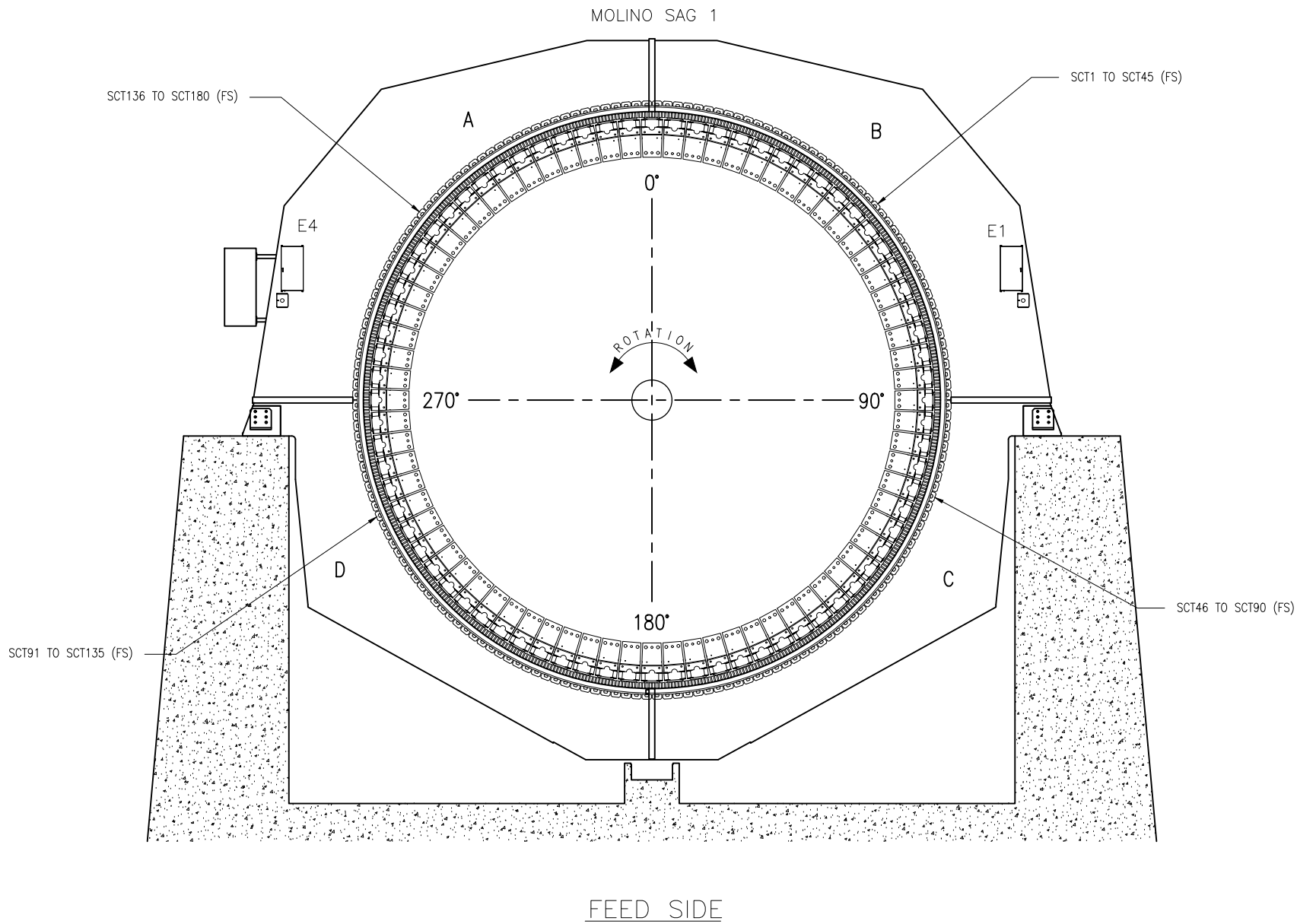
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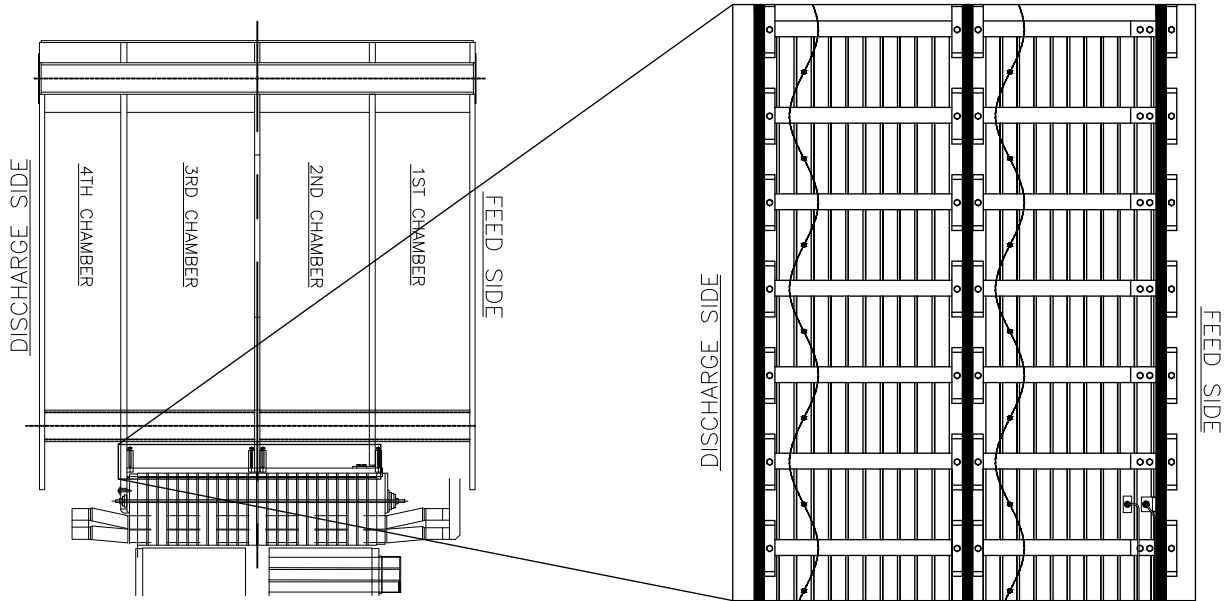
SENSOR DETAILS			
COMM INTERFACE #	FROM	TO	INSTALL IN THE MIDDLE OF 2 KEYBAR
HAVSM1	SCT1*	SCT45	FEED SIDE QUADRANT B

COMM INTERFACE #	FROM	TO	INSTALL IN THE MIDDLE OF 2 KEYBAR
HAVSM2	SCT46	SCT90	FEED SIDE QUADRANT C

COMM INTERFACE #	FROM	TO	INSTALL IN THE MIDDLE OF 2 KEYBAR
HAVSM3	SCT91	SCT135	FEED SIDE QUADRANT D

COMM INTERFACE #	FROM	TO	INSTALL IN THE MIDDLE OF 2 KEYBAR
HAVSM4	SCT136	SCT180	FEED SIDE QUADRANT A

* IT'S IMPORTANT TO FIRST DETERMINE THE POSITIONING OF SCT1 BECAUSE THIS WILL AFFECT THE POSITIONING OF THE OTHER SENSORS IN THE CHAIN



A

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Section: B

MEASURING CHAINS LOCATIONS & INSTALLATION DETAILS

Product number:

VSM-CAB-MINE1-100

Drawing number:

VSM-DWG-MINE1-100

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B7

Rev. :

1

Title:

ZOOM MONITORING SYSTEM FOR PROJECT: YOUR MINING SITE
THERMAWATCH STATOR DETAILS FEED SIDE

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VSM-DWG-MINE1-100-B7-1.DWG

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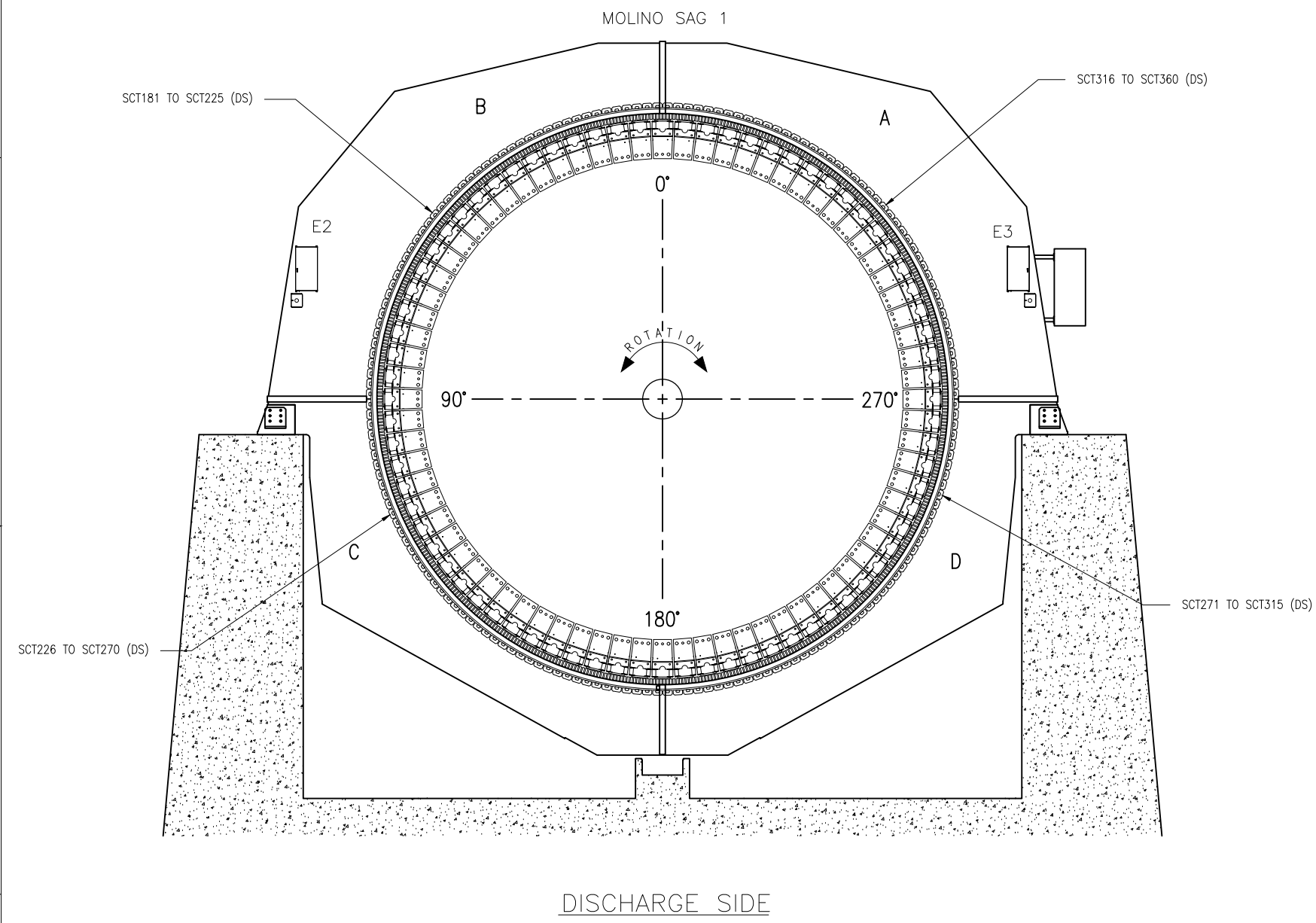
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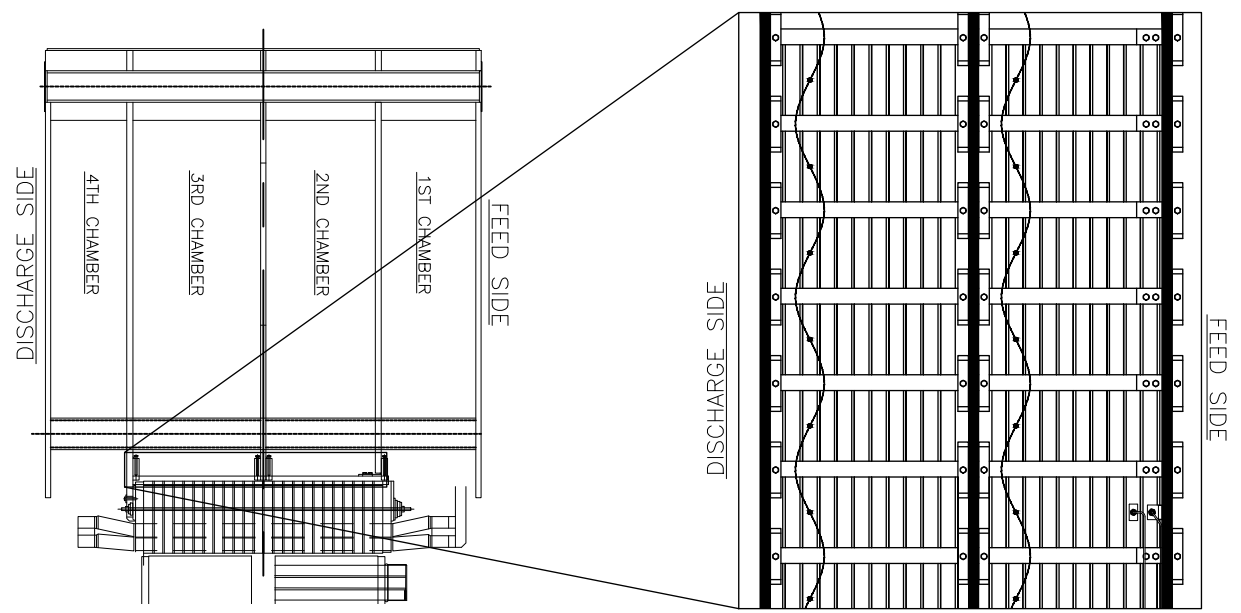
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SENSOR DETAILS			
COMM INTERFACE #	FROM	TO	INSTALL IN THE MIDDLE OF 2 KEYBAR
HAVSM5	SCT181	SCT225	DISCHARGE SIDE QUADRANT B
COMM INTERFACE #	FROM	TO	INSTALL IN THE MIDDLE OF 2 KEYBAR
HAVSM6	SCT226	SCT270	DISCHARGE SIDE QUADRANT C
COMM INTERFACE #	FROM	TO	INSTALL IN THE MIDDLE OF 2 KEYBAR
HAVSM7	SCT271	SCT315	DISCHARGE SIDE QUADRANT D
COMM INTERFACE #	FROM	TO	INSTALL IN THE MIDDLE OF 2 KEYBAR
HAVSM8	SCT316	SCT360	DISCHARGE SIDE QUADRANT A

* IT'S IMPORTANT TO FIRST DETERMINE1 THE POSITIONING OF SCT181 BECAUSE THIS WILL AFFECT THE POSITIONING OF THE OTHER SENSORS IN THE CHAIN



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Product number: VSM-CAB-MINE1-100		Drawing number: VSM-DWG-MINE1-100		Sheet: B8	Rev. : 1		

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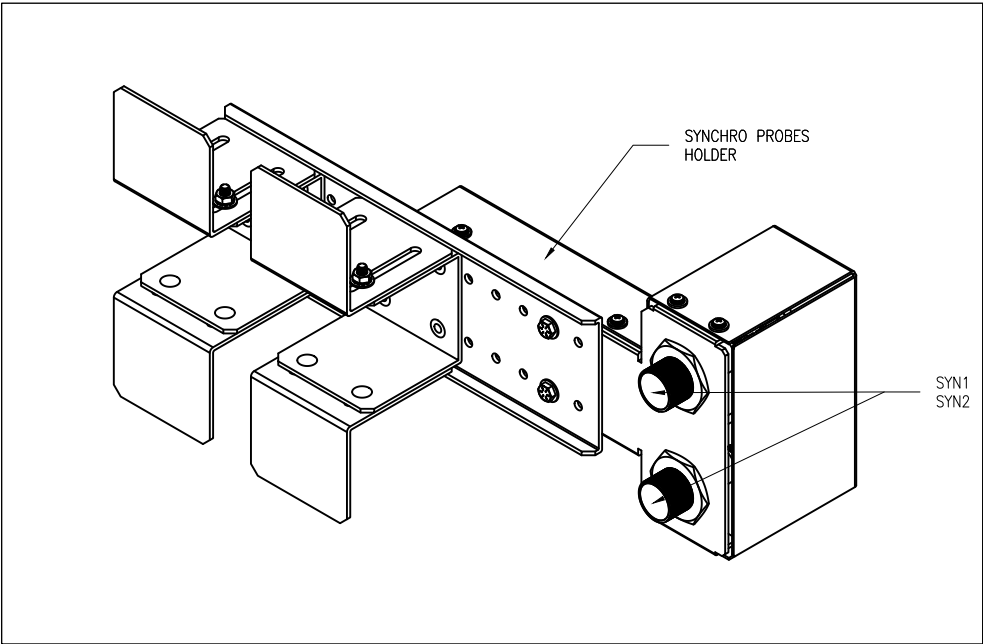
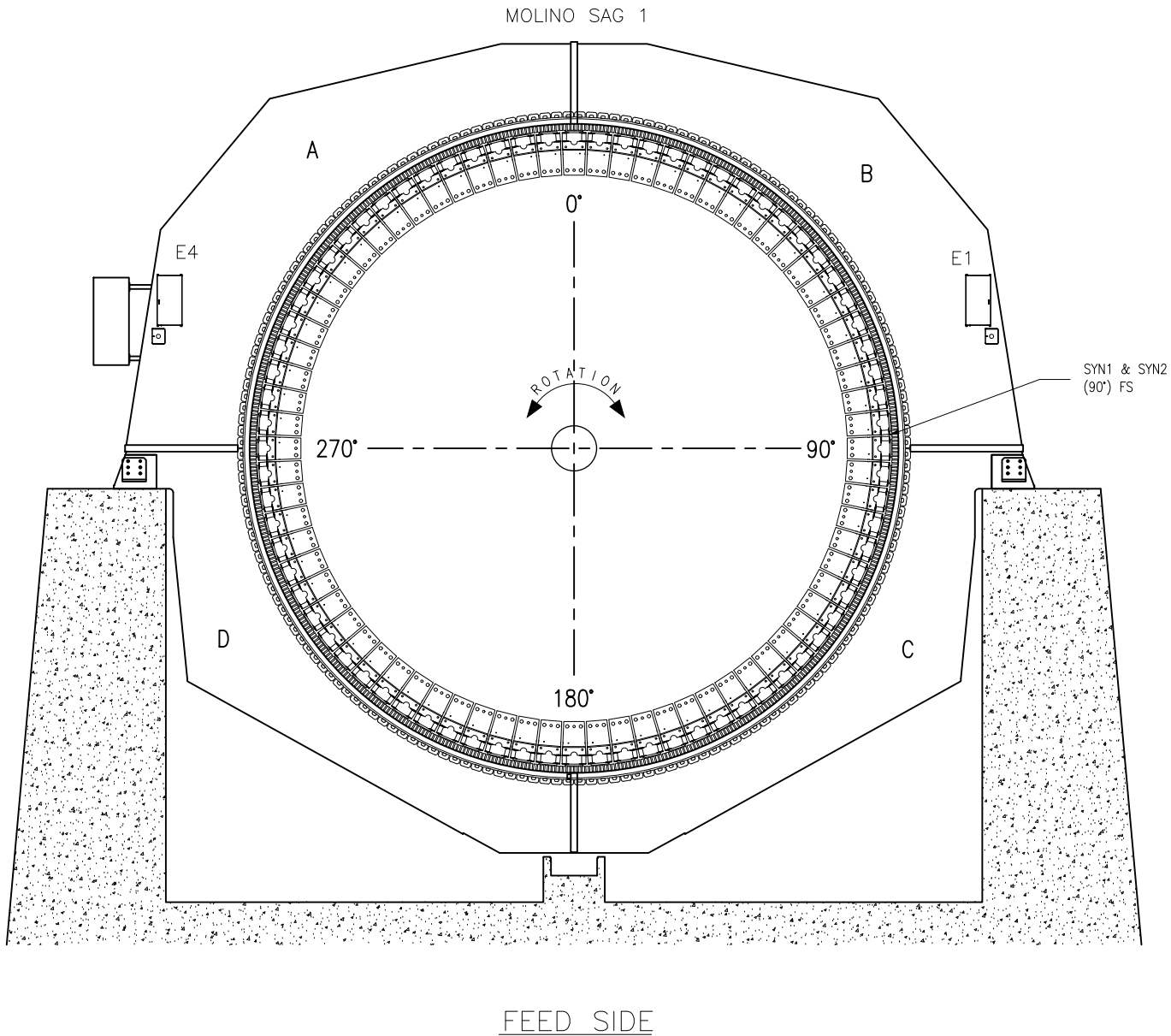
A

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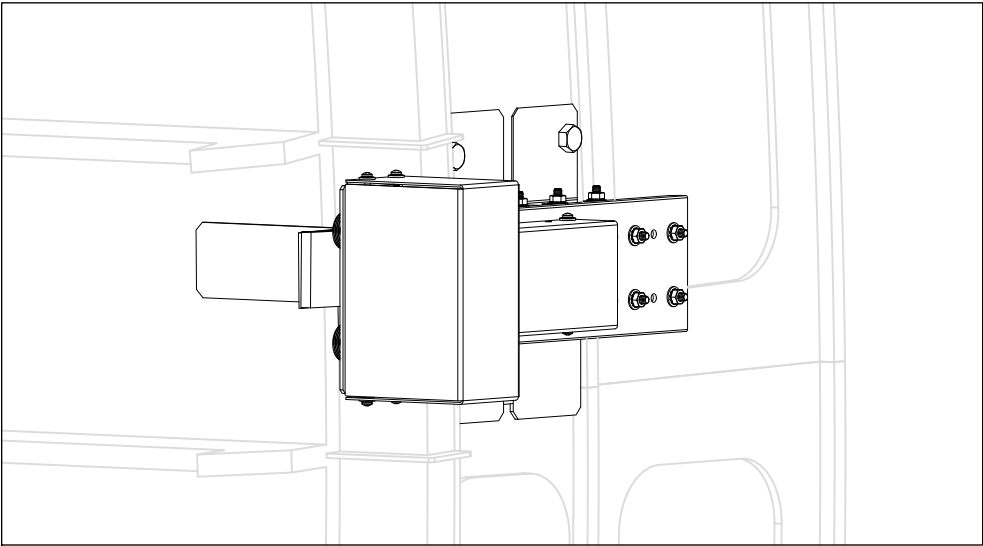
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SENSOR DETAILS		
SENSOR #	MESURING AXIS	TYPICAL LOCATION
SYN1	AXIAL	90° FS
SYN2	AXIAL	90° FS



SYNCHRO PROBES



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Section: B

MEASURING CHAINS LOCATIONS & INSTALLATION DETAILS

Product number:

VSM-CAB-MINE1-100

Drawing number:

VSM-DWG-MINE1-100

Sheet:

B9

Rev. :

1

Title:

ZOOM MONITORING SYSTEM FOR PROJECT: YOUR MINING SITE
SYNCHRONIZATION PROBES DETAILS

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VSM-DWG-MINE1-100-B9-1.DWG

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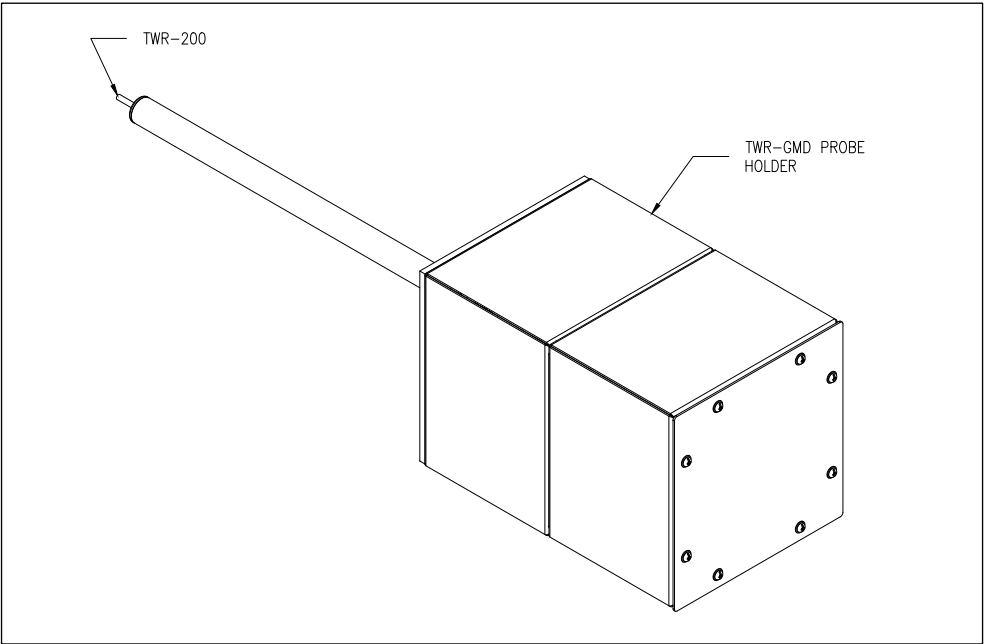
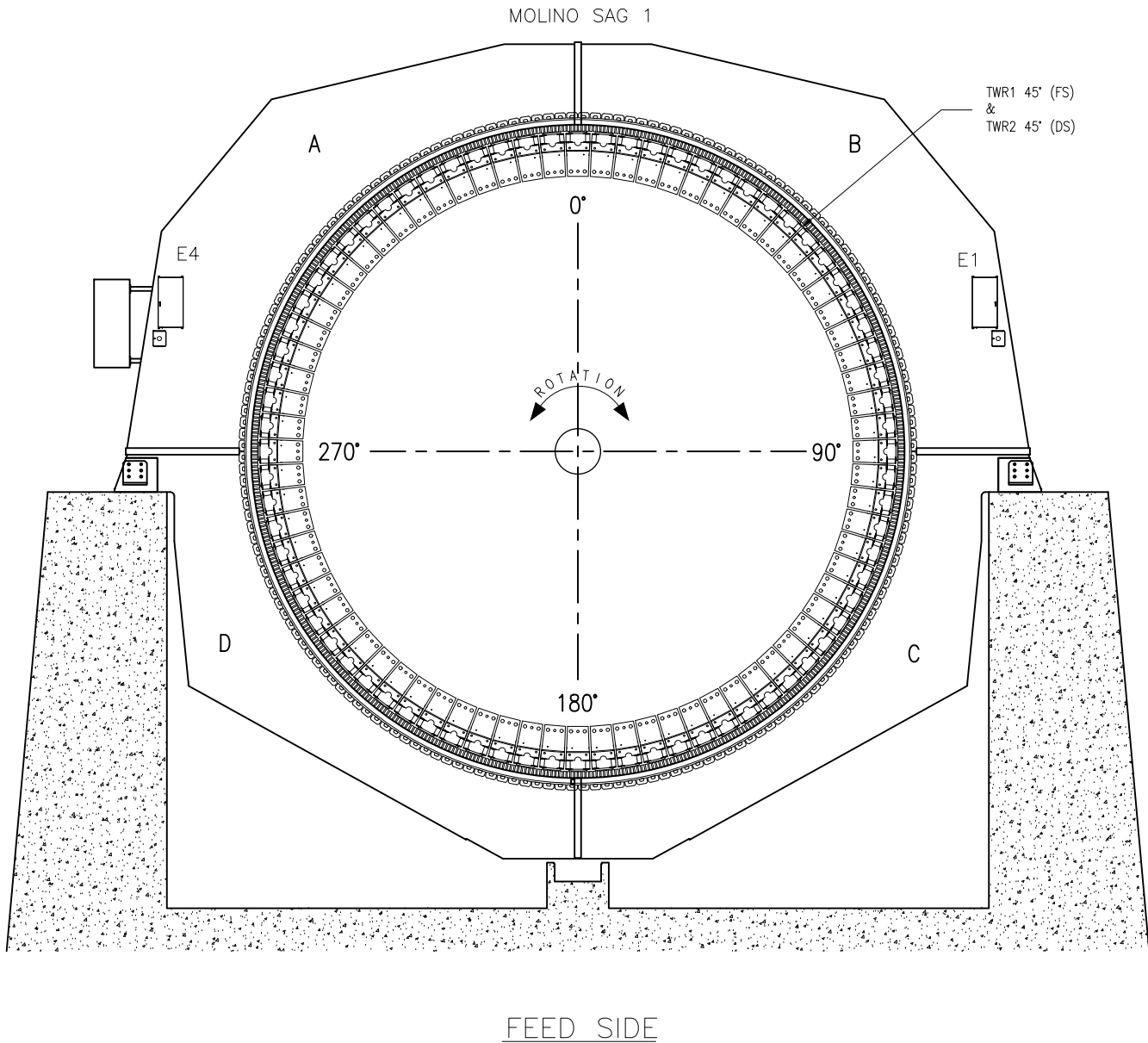
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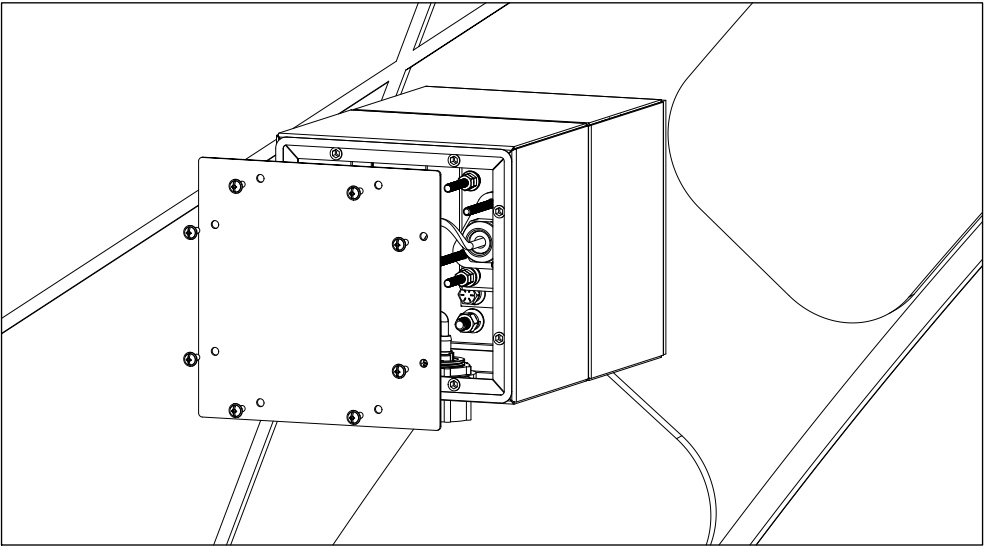
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SENSOR DETAILS		
SENSOR #	MESURING AXIS	TYPICAL LOCATION
TWR1	AXIAL	45° FS
TWR2	AXIAL	45° DS



AXIAL TWR-200



TWR-GMD PROBE HOLDER FOR TWR-200

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Section: B

MEASURING CHAINS LOCATIONS & INSTALLATION DETAILS

Product number:

VSM-CAB-MINE1-100

Drawing number:

VSM-DWG-MINE1-100

Sheet:

B10

Rev. :

1

Title:

ZOOM MONITORING SYSTEM FOR PROJECT: YOUR MINING SITE
THERMAWATCH ROTOR AXIAL DETAILS

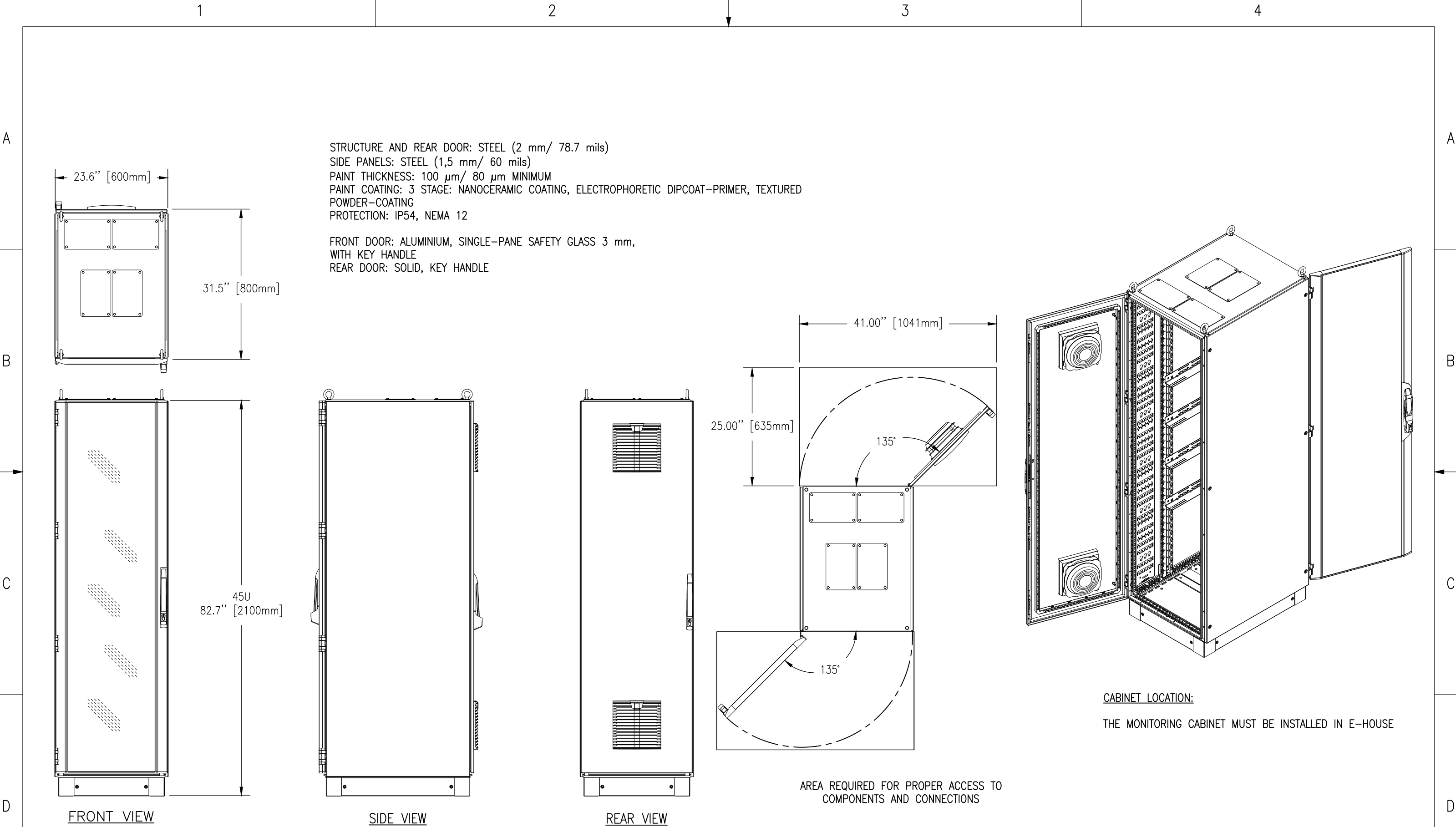
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VSM-DWG-MINE1-100-B10-1.DWG



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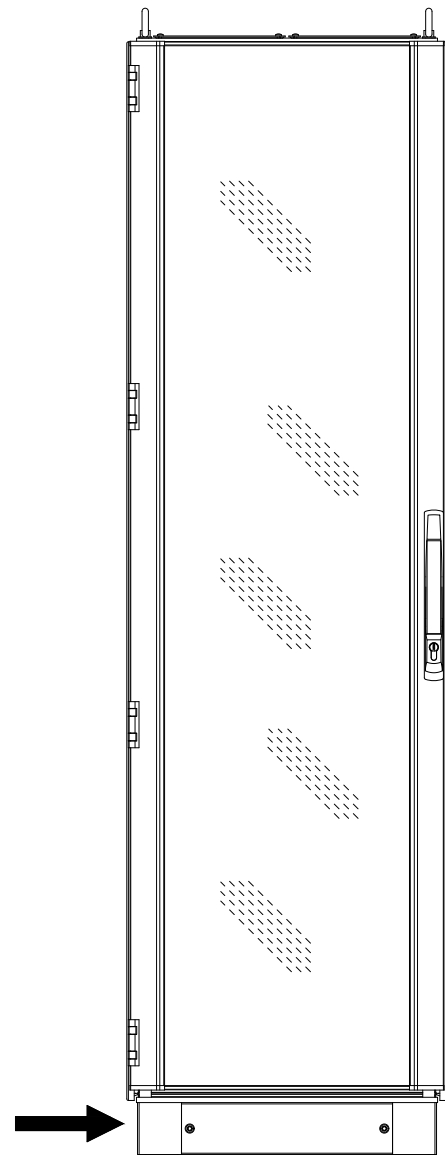
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A

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FRONT VIEW

PARTS LIST : 032
HEAVY-DUTY EXPANSION
ANCHOR HILTI:
HSL-3 M8/20
(4X)

USE SW8 ALLEN KEY
FOR INSTALLATION (4X)
20Nm [14.7ft-lb]

REMOVABLE
PLASTIC COVER
(4X)

12mm DIA.
MIN. DEPTH 80mm [3 1/8"]

535mm

735mm

1-USING A 12mm DIAMETER METRIC
BIT ONLY, DRILL TO MINIMUM
DEPTH OR DEEPER

3-HAMMER THE ANCHOR IN UNTIL THE WASHER
TOUCHES THE SURFACE.
DO NOT EXPAND ANCHOR BY HAND
PRIOR TO INSTALLATION

2-REMOVE DRILLING DEBRIS

4-USING A TORQUE WRENCH, APPLY
THE SPECIFIED INSTALLATION TORQUE

25Nm [18ft-lb]

1

2

3

4

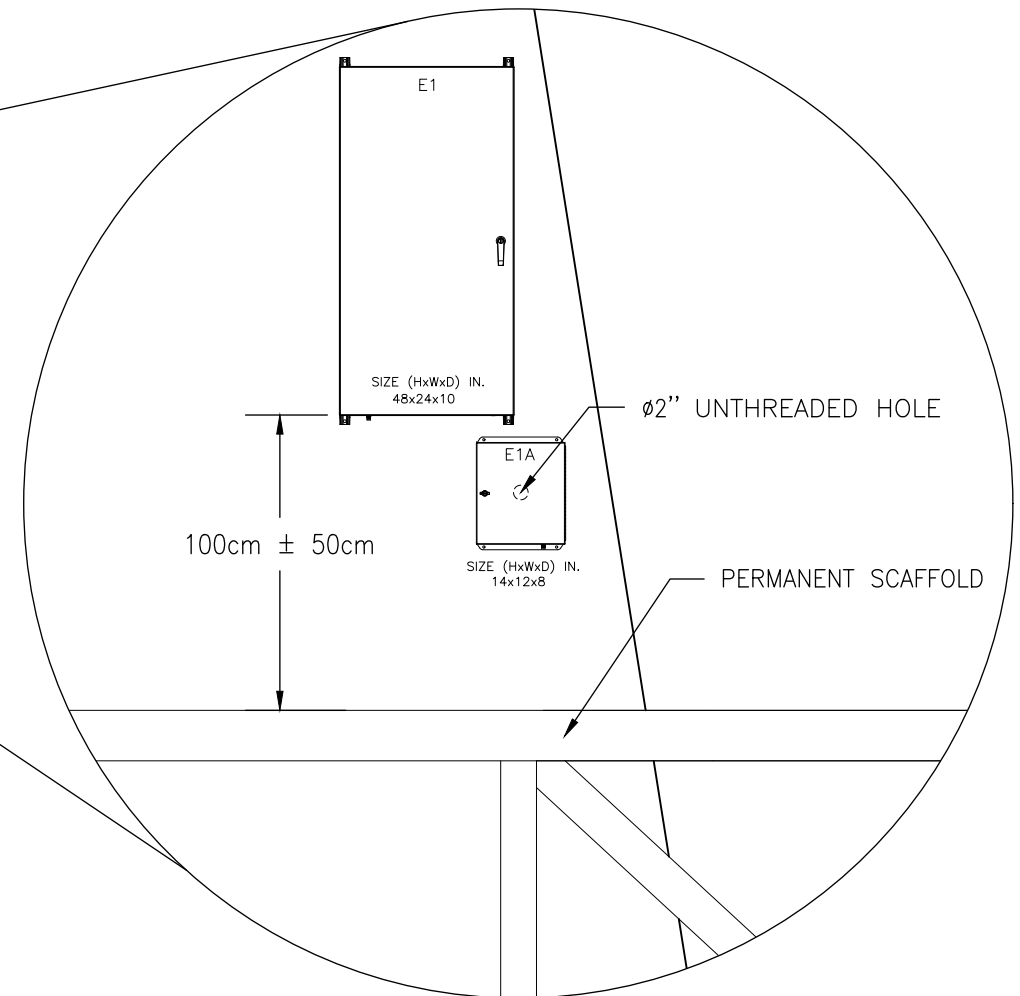
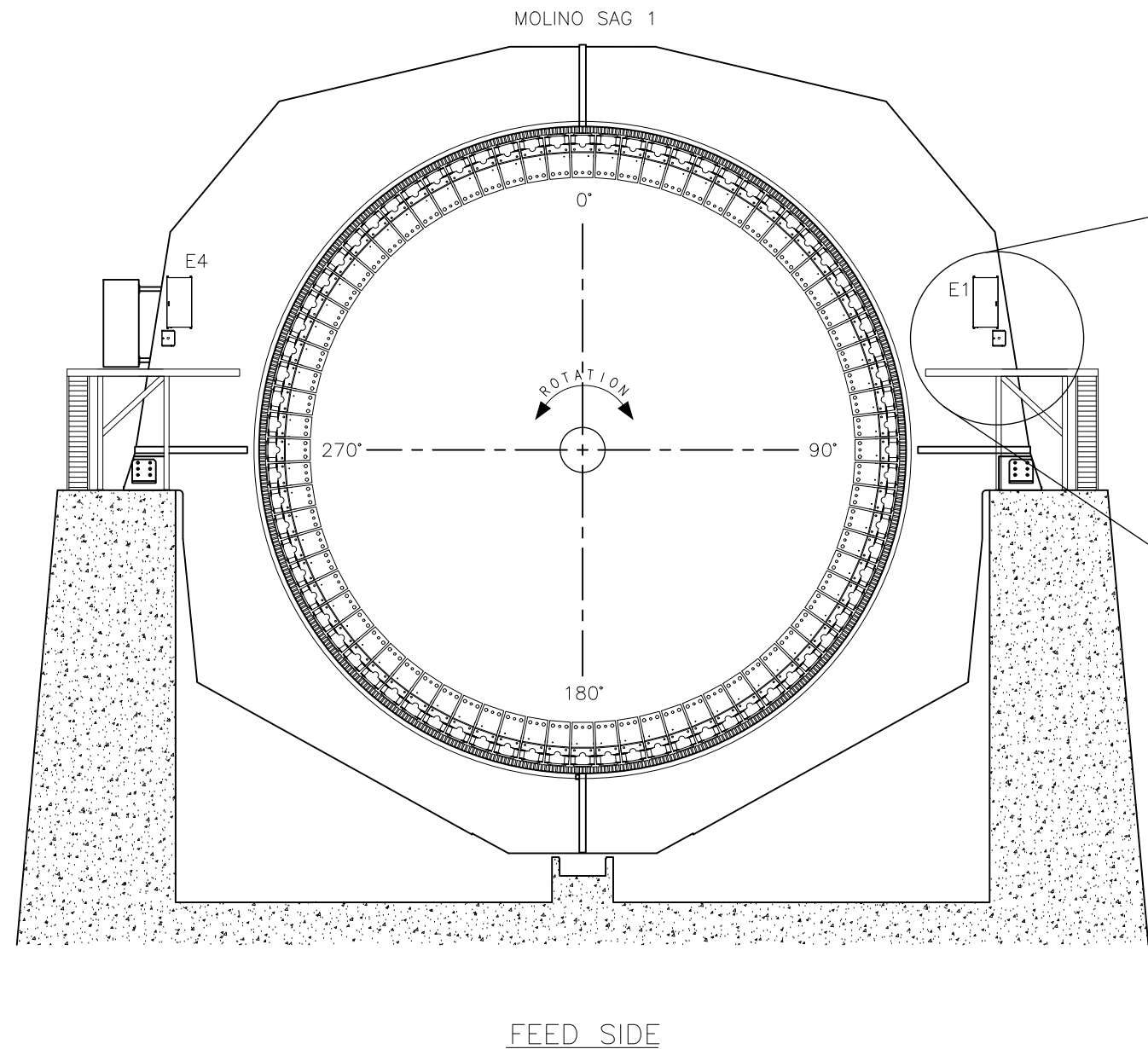
VSM-DWG-MINE1-100-C2-1.DWG



THE UNTHREADED HOLE POSITION IS ONLY INDICATIVE AND SHOULD BE CONFIRMED ACCORDING TO OBSTACLES THAT CAN BE FOUND INSIDE AND LIMITING THE PASSAGE OF CABLES.

THE BOX ARRANGEMENTS ARE ONLY INDICATIVE. THEIR POSITIONS CAN BE ADJUSTED.

DO NOT DRILL HOLES TO PASS CABLES THROUGH THE BACK OF THE WME E1 & E4. THIS WILL PUSH HOT AIR FROM THE MILL IN THE WME. PASS THE CABLES THROUGH THE TOP/BOTTOM OR THROUGH THE SIDES OF THE WME



THE PASSTHROUGH BOX E1A & E4A ARE INSTALLED UNDERNEATH THEIR RESPECTIVE WME (E1 & E4)

THE WME E1 & E4 MUST BE ACCESSIBLE FROM THE PERMANENT SCAFFOLDS OF THE MILL. THE BOTTOM OF THE WME MUST BE 100 CM +/- 50 CM FROM THE PERMANENT SCAFFOLDS.

MAKE SURE THAT YOU HAVE THE NECESSARY CLEARANCE TO OPEN THE DOOR OF EACH BOX. SEE SHEET C6 FOR DETAILS



1

2

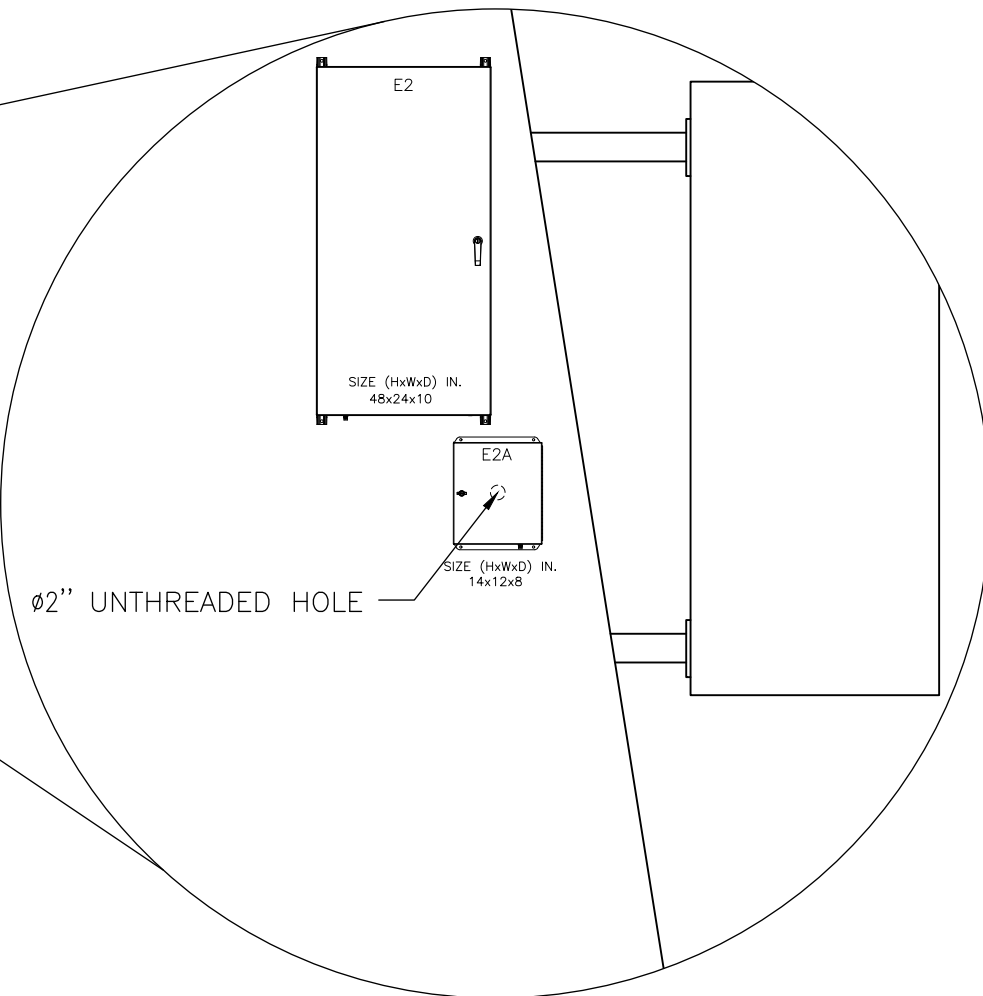
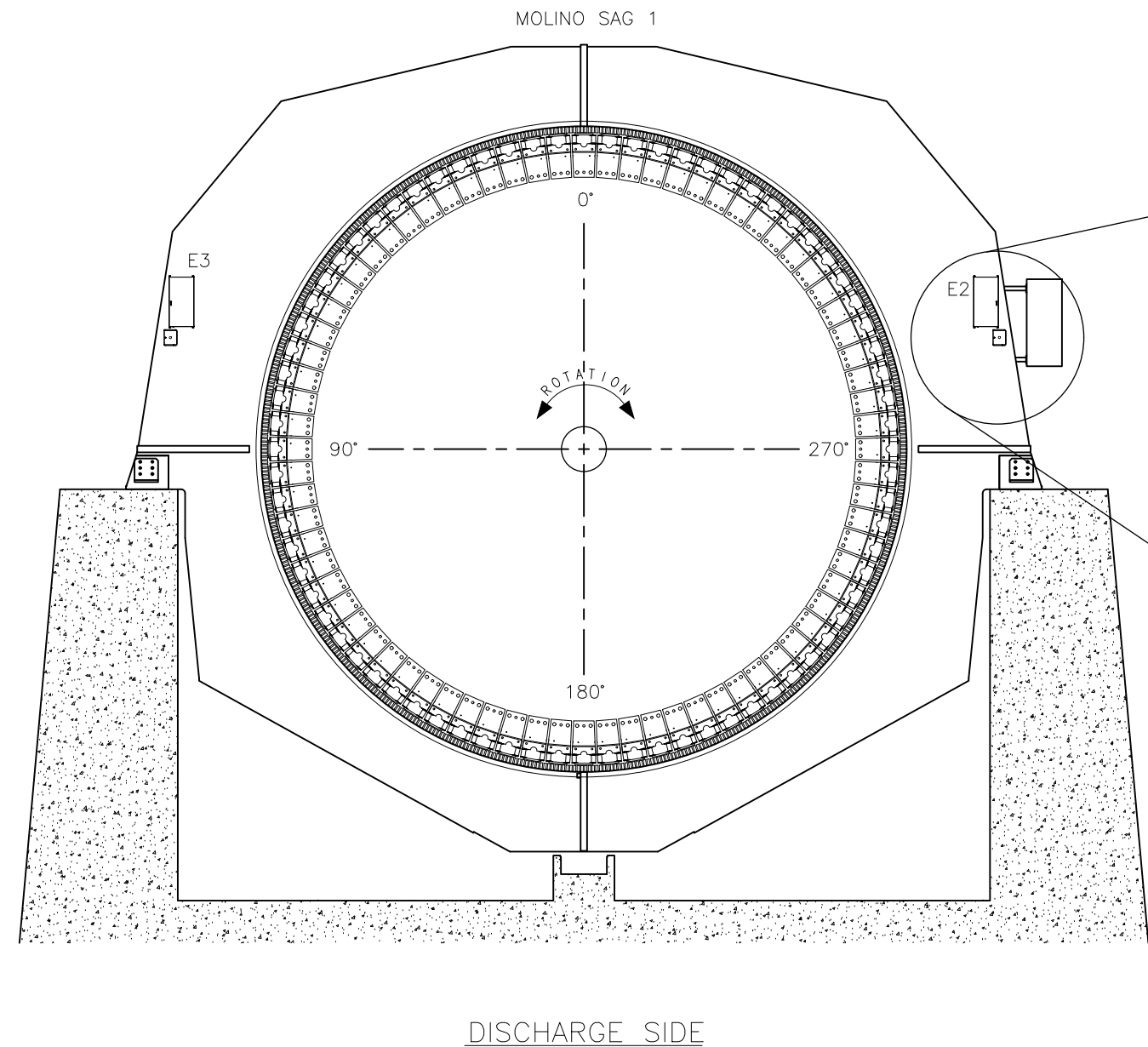
3

4

THE UNTHREADED HOLE POSITION IS ONLY INDICATIVE AND SHOULD BE CONFIRMED ACCORDING TO OBSTACLES THAT CAN BE FOUND INSIDE AND LIMITING THE PASSAGE OF CABLES.

THE BOX ARRANGEMENTS ARE ONLY INDICATIVE. THEIR POSITIONS CAN BE ADJUSTED.

DO NOT DRILL HOLES TO PASS CABLES THROUGH THE BACK OF THE WME E2 & E3. THIS WILL PUSH HOT AIR FROM THE MILL IN THE WME. PASS THE CABLES THROUGH THE TOP/BOTTOM OR THROUGH THE SIDES OF THE WME



THE PASSTHROUGH BOX E2A & E3A ARE INSTALLED UNDERNEATH THEIR RESPECTIVE WME (E2 & E3)

MAKE SURE THAT YOU HAVE THE NECESSARY CLEARANCE TO OPEN THE DOOR OF EACH BOX. SEE SHEET C6 FOR DETAILS

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Section: C

Product number:

VSM-CAB-MINE1-100

MECHANICAL

Drawing number:

VSM-DWG-MINE1-100

Sheet:

C4

Rev. :

1

Title:

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

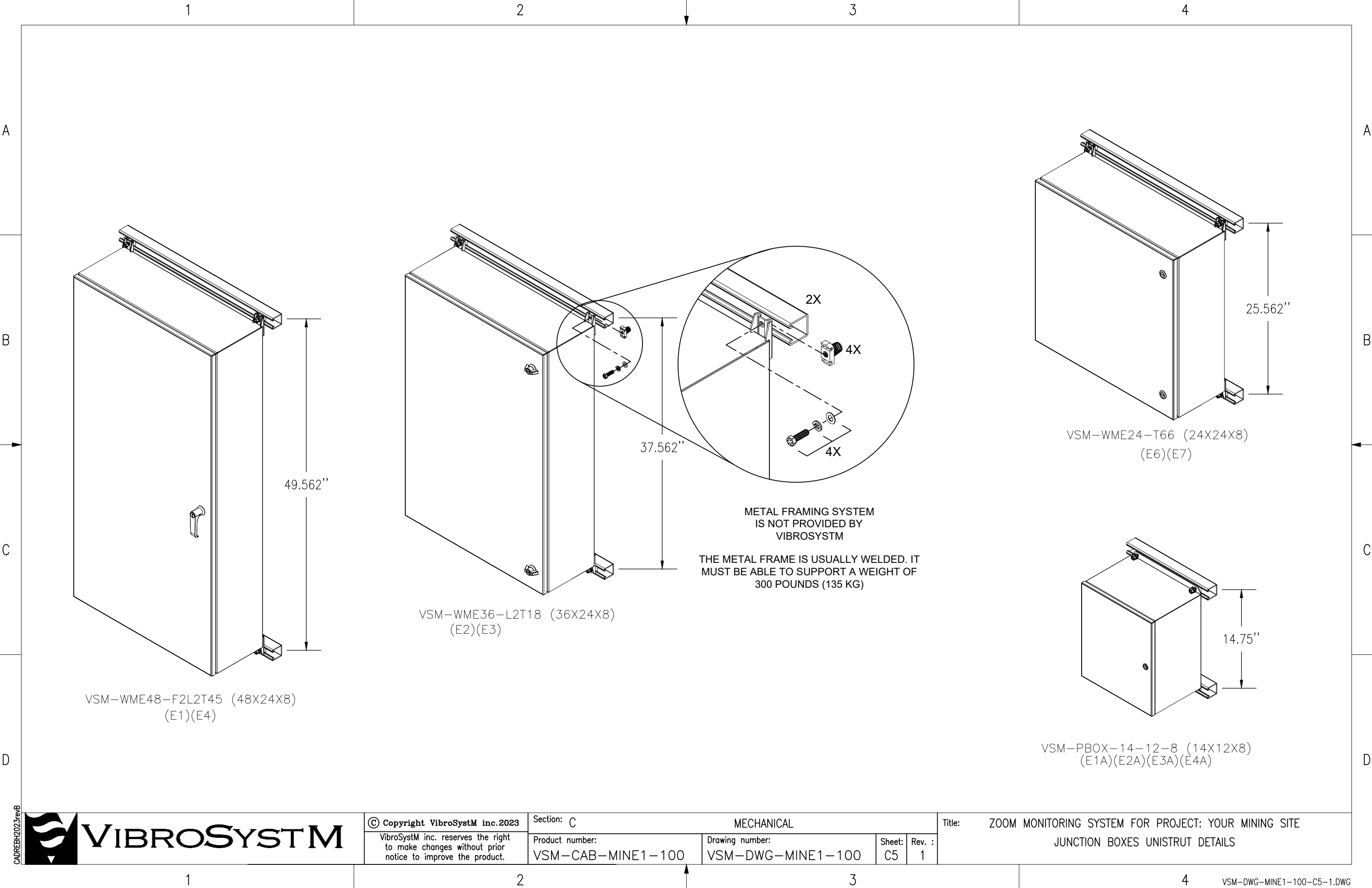
1

2

3

4

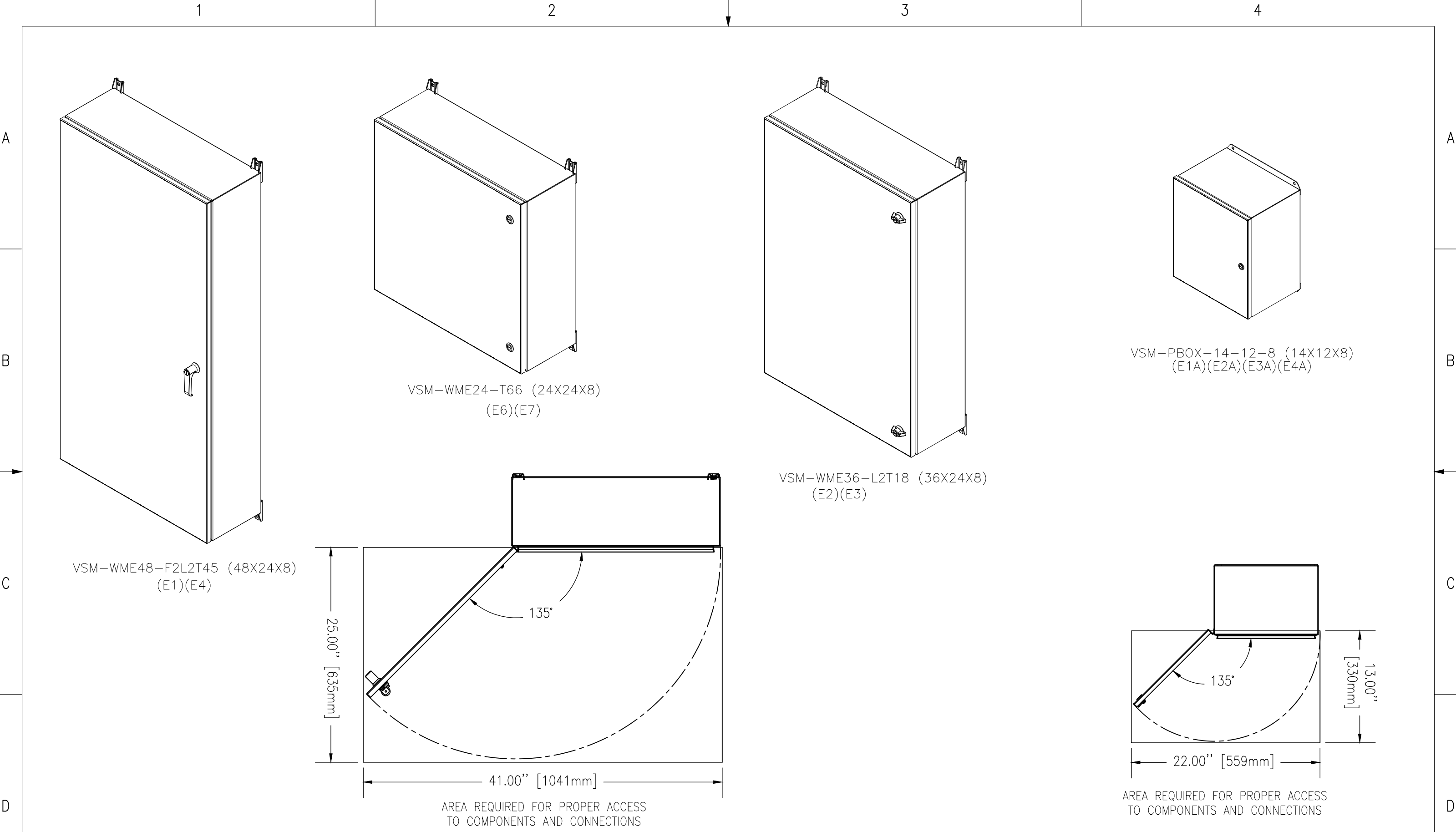
VSM-DWG-MINE1-100-C4-1.DWG



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© Copyright VibroSystM inc. 2023		Section: C		MECHANICAL		Title: ZOOM MONITORING SYSTEM FOR PROJECT: YOUR MINING SITE	
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: C5	Rev. : 1
						JUNCTION BOXES UNISTRUT DETAILS	



A

B

C

D

A

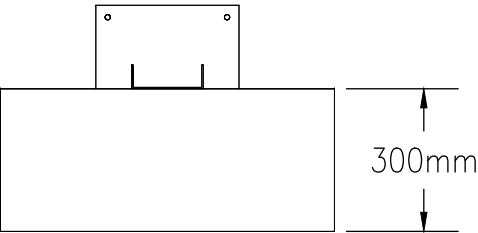
B

C

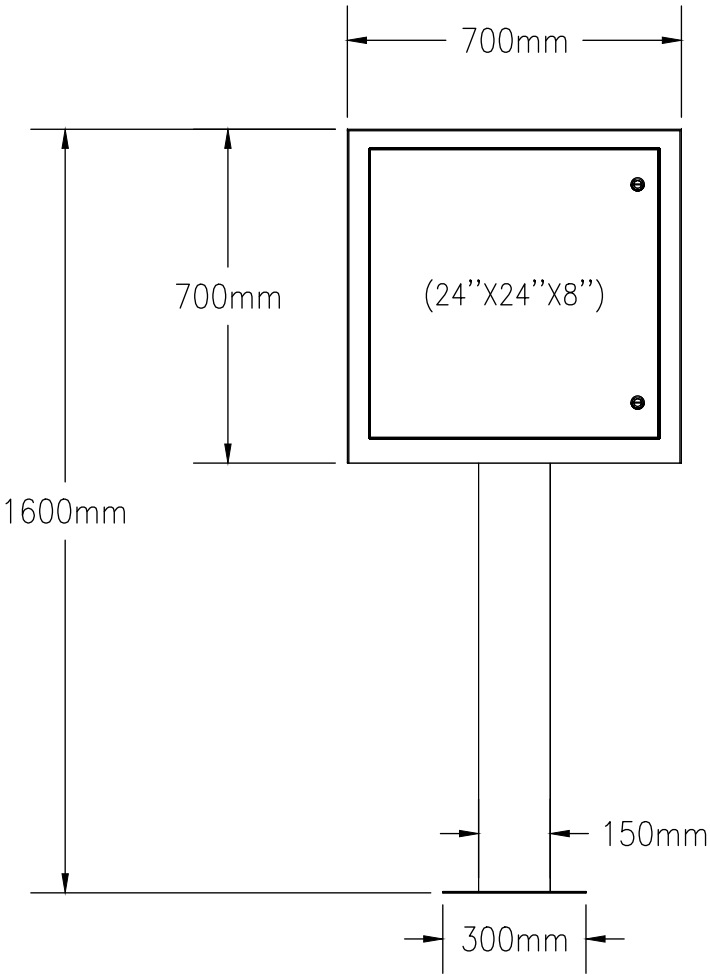
D

MATERIAL: ROOF & BASE 3mm STEEL SHEET
PEDESTAL 3mm U PROFILE 150mmX50mm

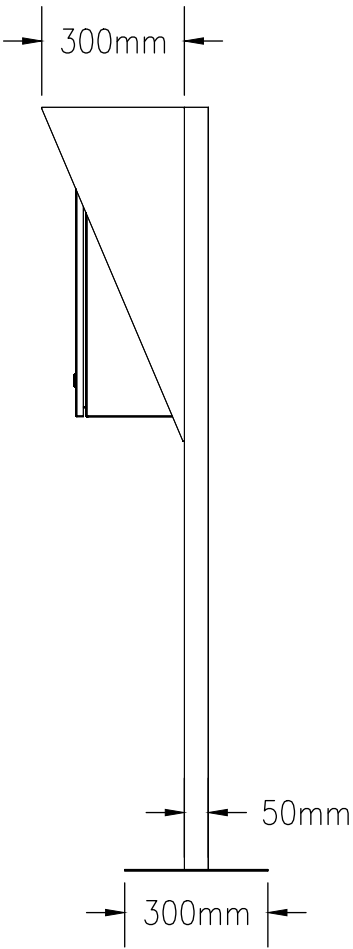
FINISH: SANDBLASTING PROCESS AND EPOXY PAINT



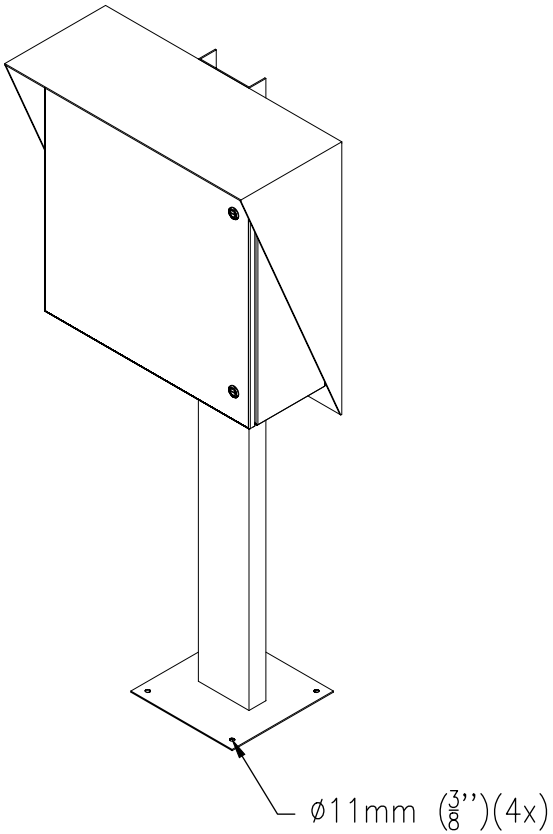
TOP VIEW



FRONT VIEW



SIDE VIEW



ISO VIEW

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Section: C

Product number:
VSM-CAB-MINE1-100

MECHANICAL

Drawing number:
VSM-DWG-MINE1-100

Sheet:
C7

Rev. :
1

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

A

B

C

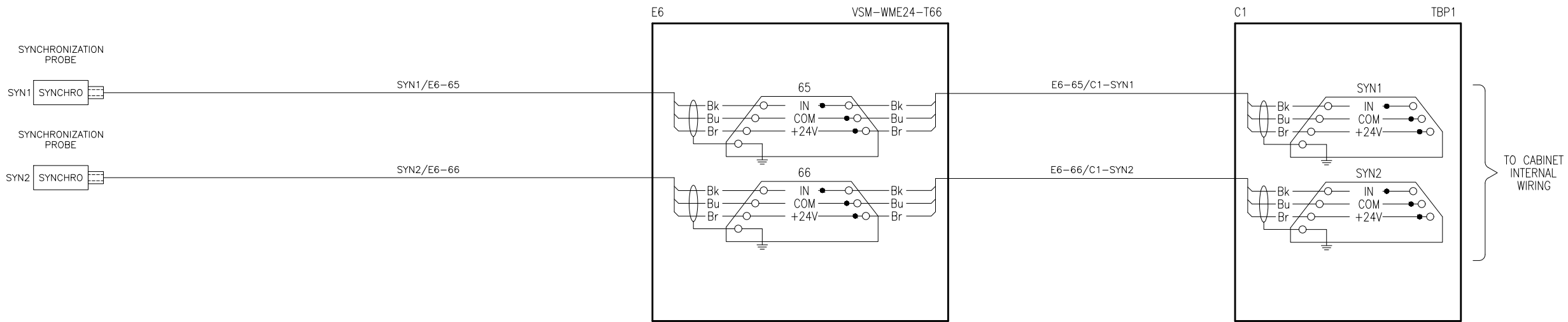
D

A

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D



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Section: D

Product number:
VSM-CAB-MINE1-100

CABLING & WIRING

Drawing number:
VSM-DWG-MINE1-100

Sheet:
D1

Rev. :
1

Title: ZOOM MONITORING SYSTEM FOR PROJECT: YOUR MINING SITE
ELECT. SCHEMATIC SYNCHRONIZATION PROBES (1-2)

A

B

C

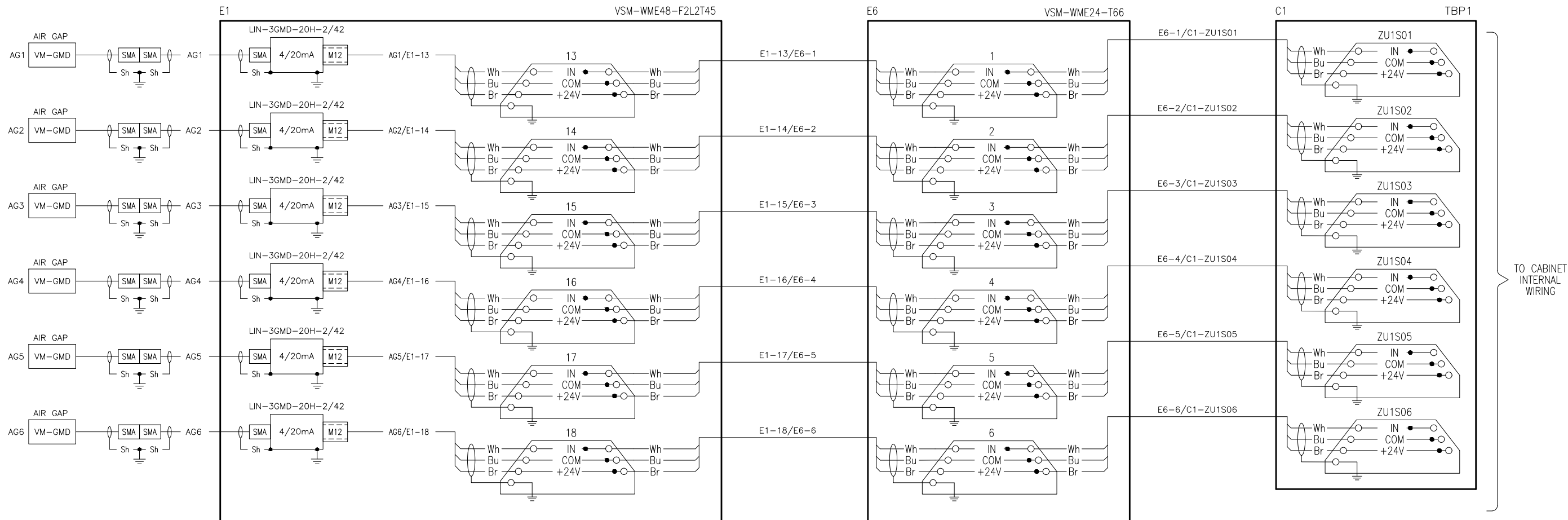
D

A

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D



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Section: D		CABLING & WIRING	
Product number:	VSM-CAB-MINE1-100	Drawing number:	VSM-DWG-MINE1-100
Sheet:	D2	Rev. :	1

Title: ZOOM MONITORING SYSTEM FOR PROJECT: YOUR MINING SITE
ELECT. SCHEMATIC AIR GAP MEASURING CHAINS (AG1-AG6)

A

B

C

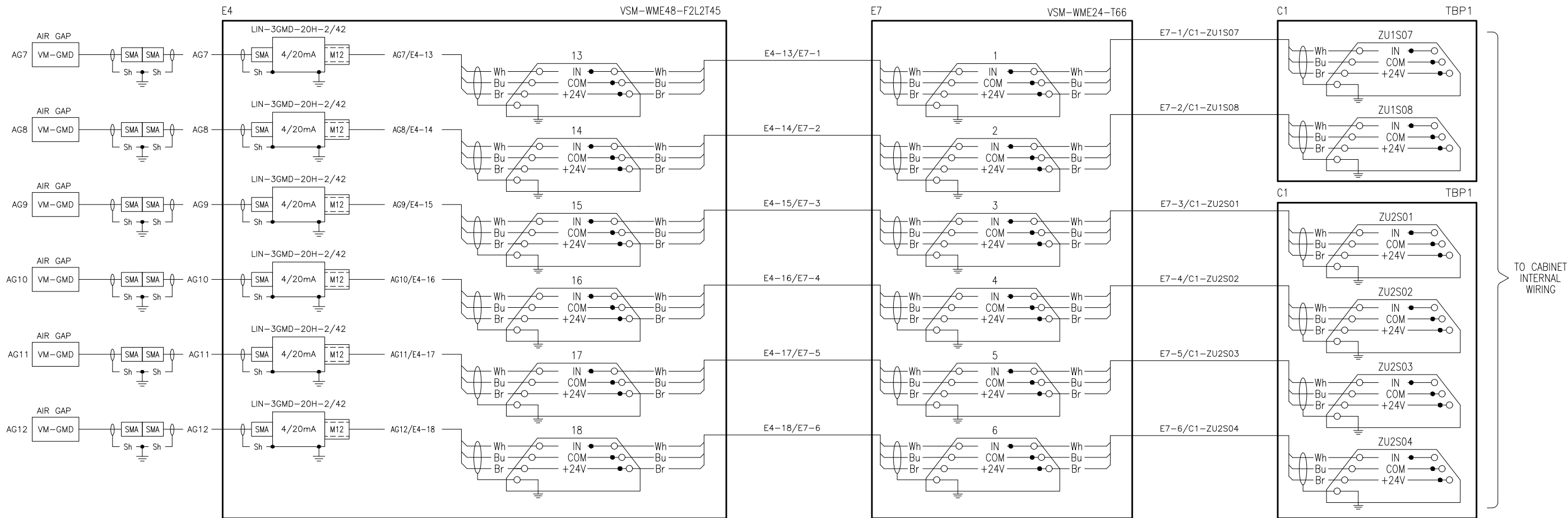
D

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Section: D

Product number:
VSM-CAB-MINE1-100

CABLING & WIRING

Drawing number:
VSM-DWG-MINE1-100

Sheet: D3
Rev. : 1

Title: ZOOM MONITORING SYSTEM FOR PROJECT: YOUR MINING SITE
ELECT. SCHEMATIC AIR GAP MEASURING CHAINS (AG7-AG12)

A

B

C

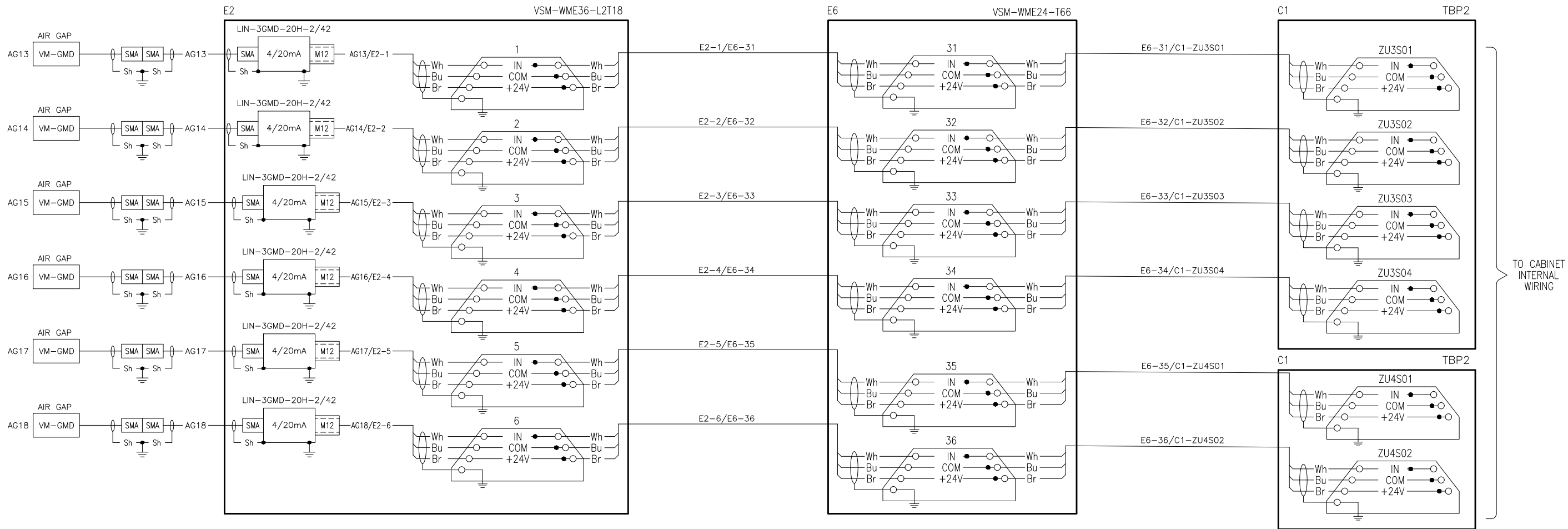
D

A

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Section: D		CABLING & WIRING	
Product number:	VSM-CAB-MINE1-100	Drawing number:	VSM-DWG-MINE1-100
Sheet:	D4	Rev. :	1

Title: ZOOM MONITORING SYSTEM FOR PROJECT: YOUR MINING SITE
ELECT. SCHEMATIC AIR GAP MEASURING CHAINS (AG13-AG18)

A

B

C

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A

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Section: D
Product number: VSM-CAB-MINE1-100
Drawing number: VSM-DWG-MINE1-100
Sheet: D6
Rev. : 1

Title: ZOOM MONITORING SYSTEM FOR PROJECT: YOUR MINING SITE
ELECT. SCHEMATIC END-WINDING MEASURING CHAINS (FOA1-FOA12)

A

B

C

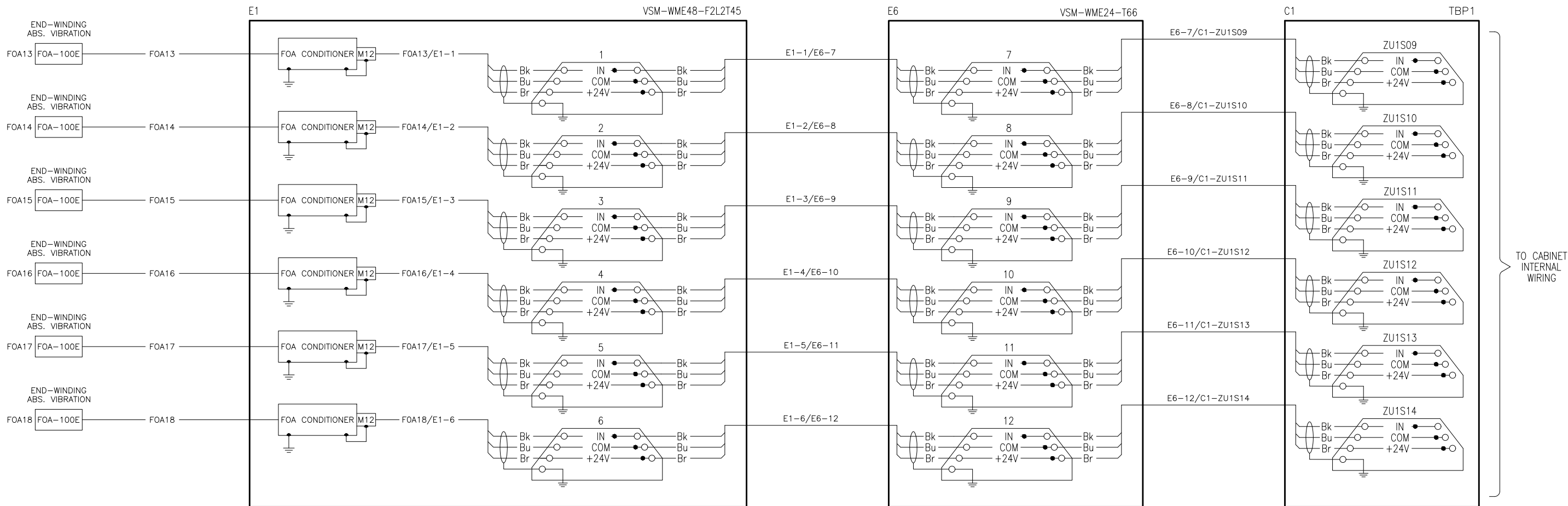
D

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Section: D		CABLING & WIRING		
Product number:	VSM-CAB-MINE1-100	Drawing number:	VSM-DWG-MINE1-100	Sheet: D7
			Rev. : 1	

Title: ZOOM MONITORING SYSTEM FOR PROJECT: YOUR MINING SITE
ELECT. SCHEMATIC END-WINDING MEASURING CHAINS (FOA13-FOA18)

A

B

C

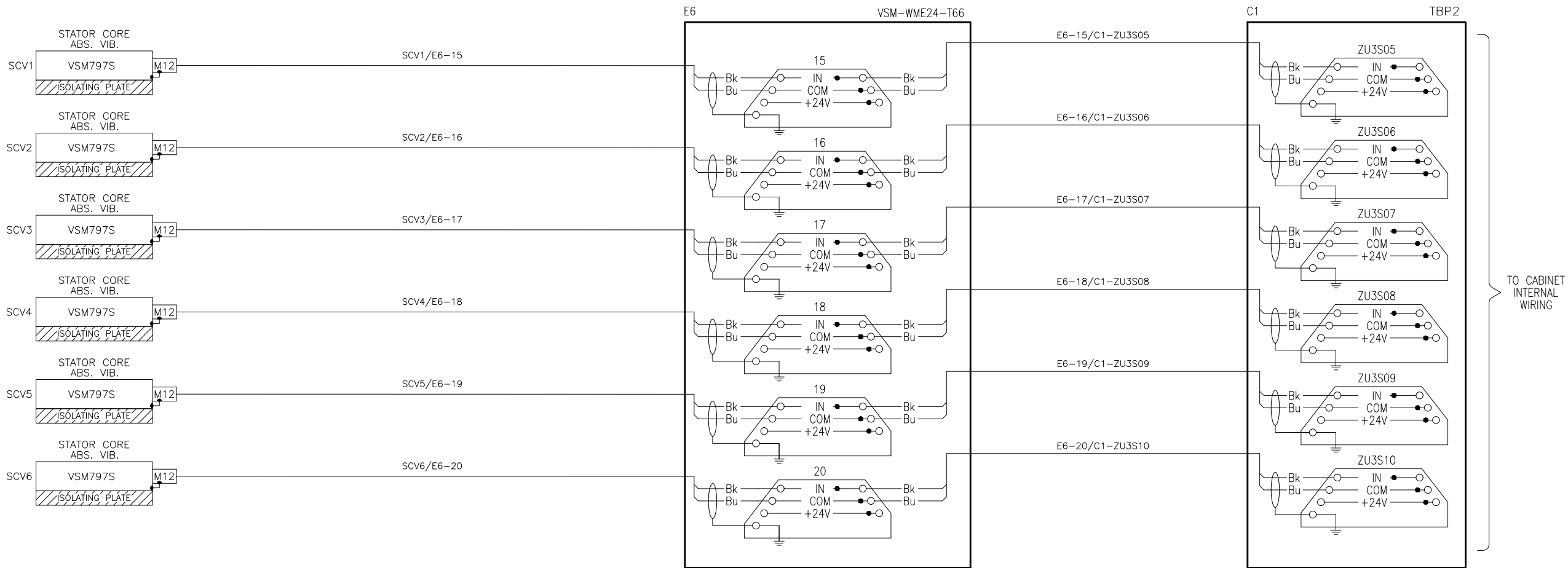
D

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Section: D

Product number:
VSM-CAB-MINE1-100

CABLING & WIRING

Drawing number:
VSM-DWG-MINE1-100

Sheet: D8
Rev. : 1

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

A

B

C

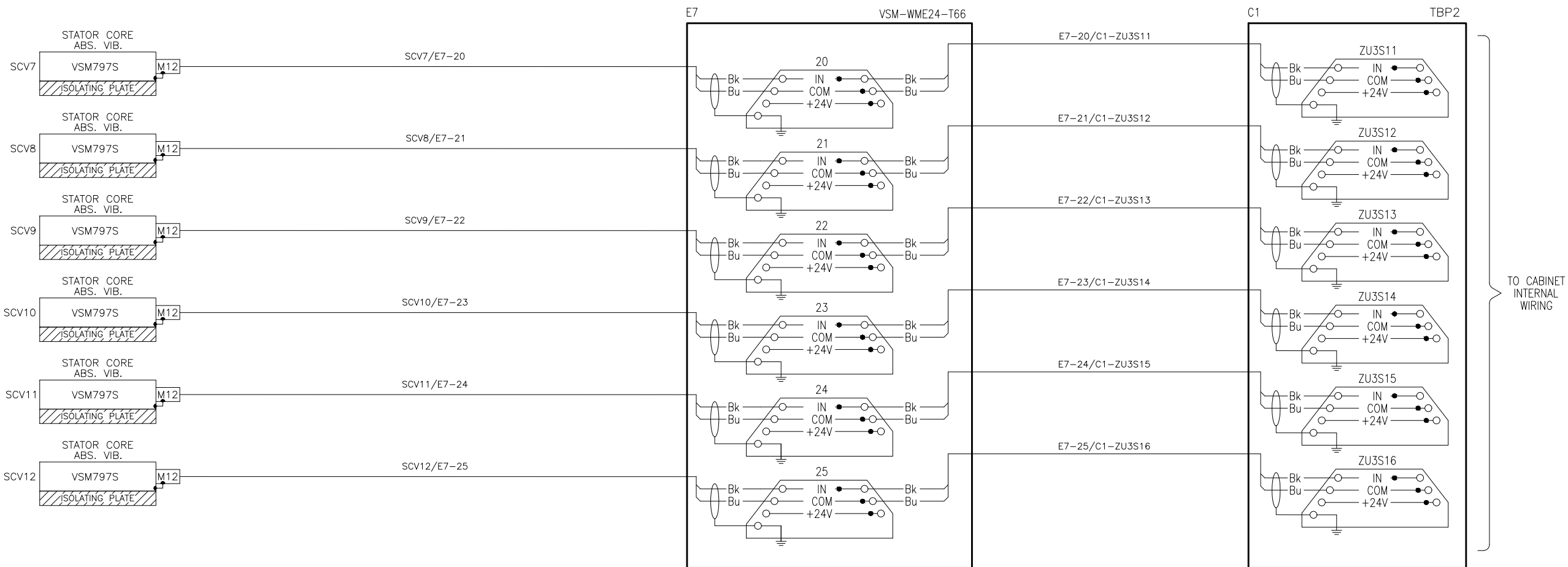
D

A

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Section: D		CABLING & WIRING			
Product number:	VSM-CAB-MINE1-100	Drawing number:	VSM-DWG-MINE1-100	Sheet:	Rev. :
				D9	1

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

A

B

C

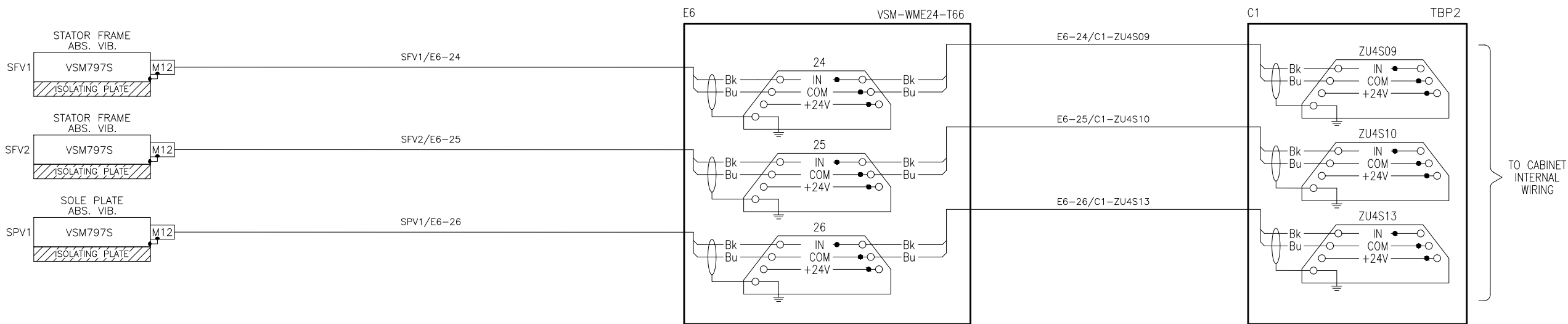
D

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Section: D

Product number:
VSM-CAB-MINE1-100

CABLING & WIRING

Drawing number:
VSM-DWG-MINE1-100

Sheet: D10
Rev. : 1

Title: ZOOM MONITORING SYSTEM FOR PROJECT: YOUR MINING SITE
ELECT. SCHEMATIC STATOR FRAME MEASURING CHAINS (SFVx & SPVx)

A

B

C

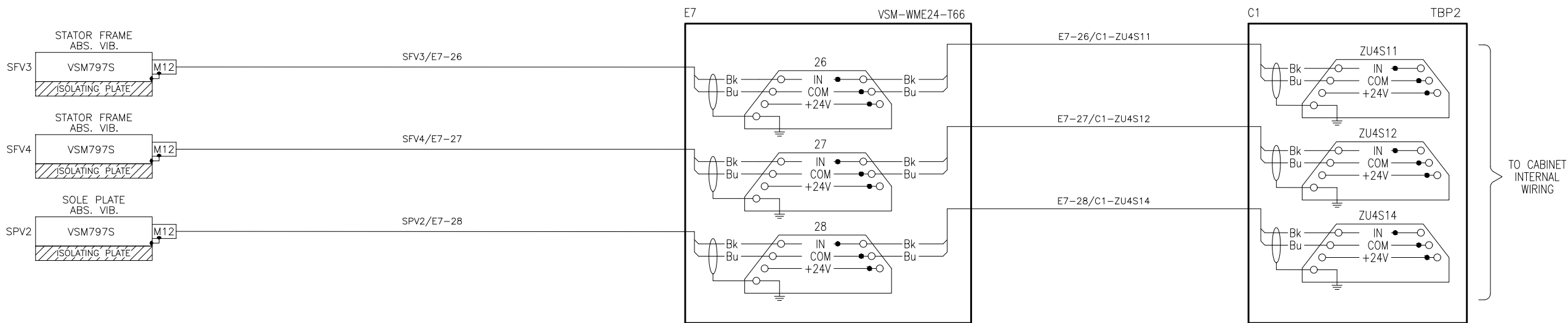
D

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Section: D

Product number:
VSM-CAB-MINE1-100

CABLING & WIRING

Drawing number:
VSM-DWG-MINE1-100

Sheet:
D11

Rev. :
1

Title: ZOOM MONITORING SYSTEM FOR PROJECT: YOUR MINING SITE
ELECT. SCHEMATIC STATOR FRAME MEASURING CHAINS (SFVx & SPVx)

1

2

3

4

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

A

B

C

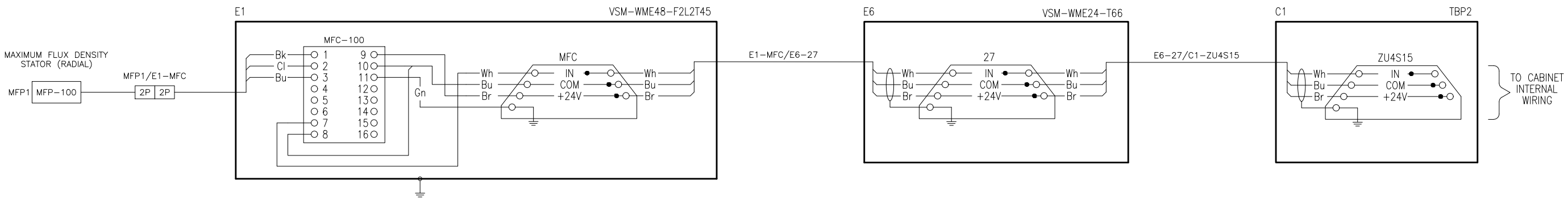
D

A

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Section: D		CABLING & WIRING			
Product number:	VSM-CAB-MINE1-100	Drawing number:	VSM-DWG-MINE1-100	Sheet:	Rev. :
				D12	1

Title: ZOOM MONITORING SYSTEM FOR PROJECT: YOUR MINING SITE
ELECT. SCHEMATIC MAGNETIC FLUX DENSITY MEASURING CHAIN

A

B

C

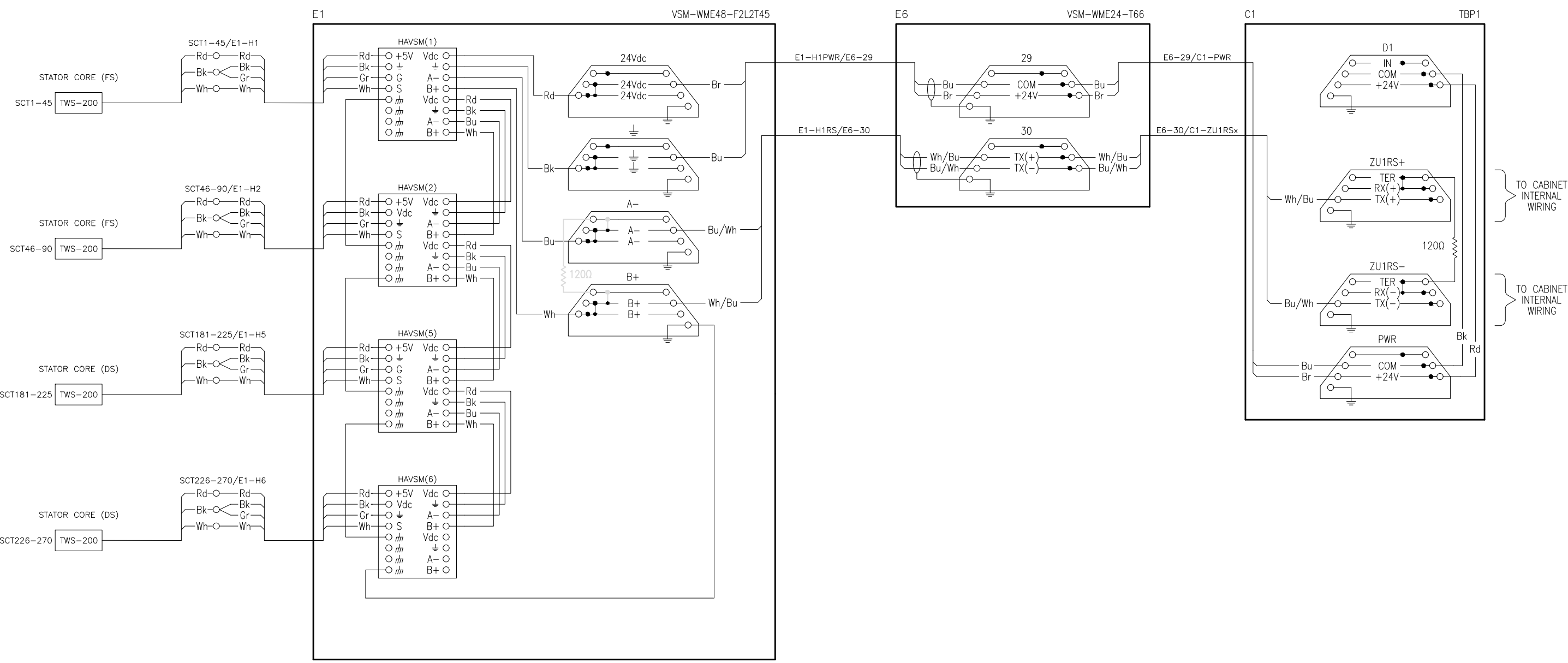
D

A

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Section: D		CABLING & WIRING			
Product number:	VSM-CAB-MINE1-100	Drawing number:	VSM-DWG-MINE1-100	Sheet:	Rev. :
				D13	1

Title: ZOOM MONITORING SYSTEM FOR PROJECT: YOUR MINING SITE
ELECT. SCHEMATIC THERMAWATCH STATOR MEASURING CHAINS

A

B

C

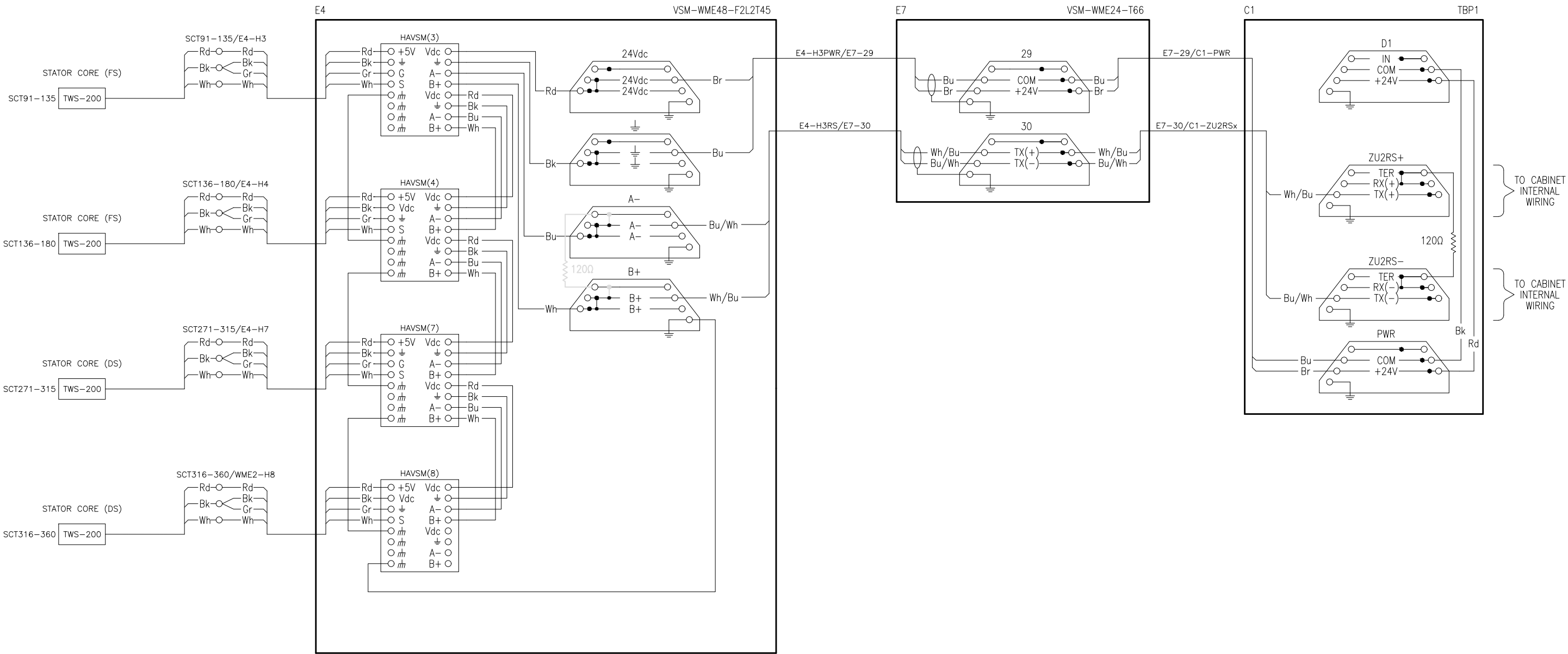
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Section: D

Product number:
VSM-CAB-MINE1-100

CABLING & WIRING

Drawing number:
VSM-DWG-MINE1-100

Sheet:
D14

Rev. :
1

Title: ZOOM MONITORING SYSTEM FOR PROJECT: YOUR MINING SITE
ELECT. SCHEMATIC THERMAWATCH STATOR MEASURING CHAINS

A

B

C

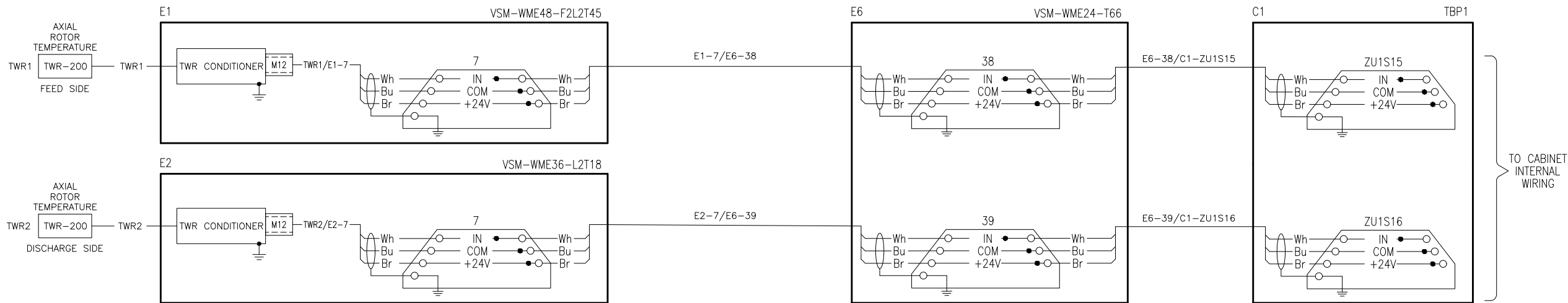
D

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Section: D

Product number:
VSM-CAB-MINE1-100

CABLING & WIRING

Drawing number:
VSM-DWG-MINE1-100

Sheet: D15
Rev. : 1

Title: ZOOM MONITORING SYSTEM FOR PROJECT: YOUR MINING SITE
ELECT. SCHEMATIC ROTOR TEMPERATURE MEASURING CHAINS

1

2

3

4

VSM-DWG-MINE1-100-D15-1.DWG

A

B

C

D

1

2

3

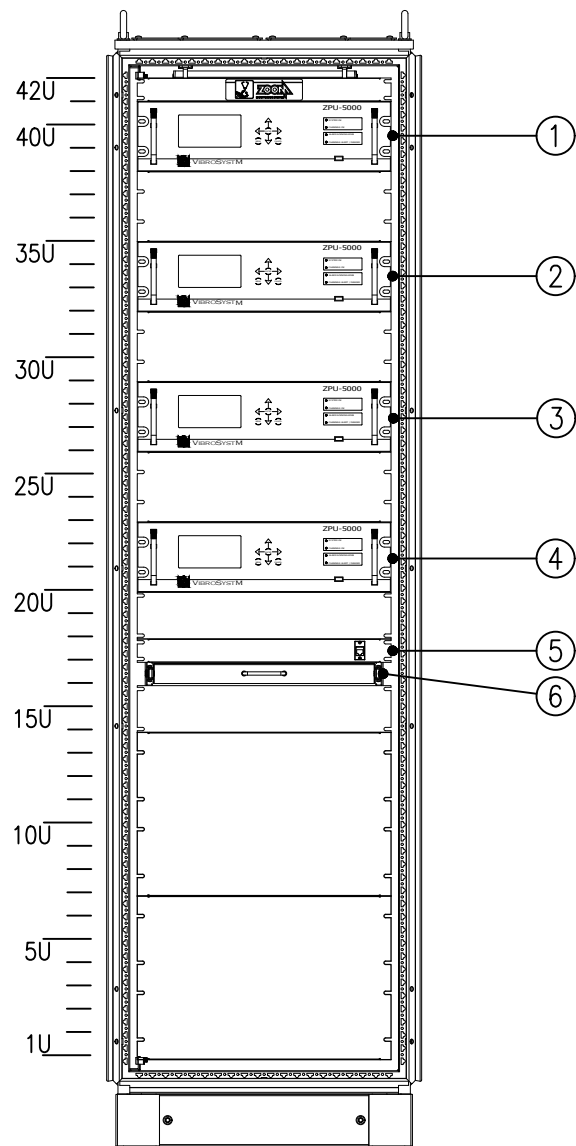
4

A

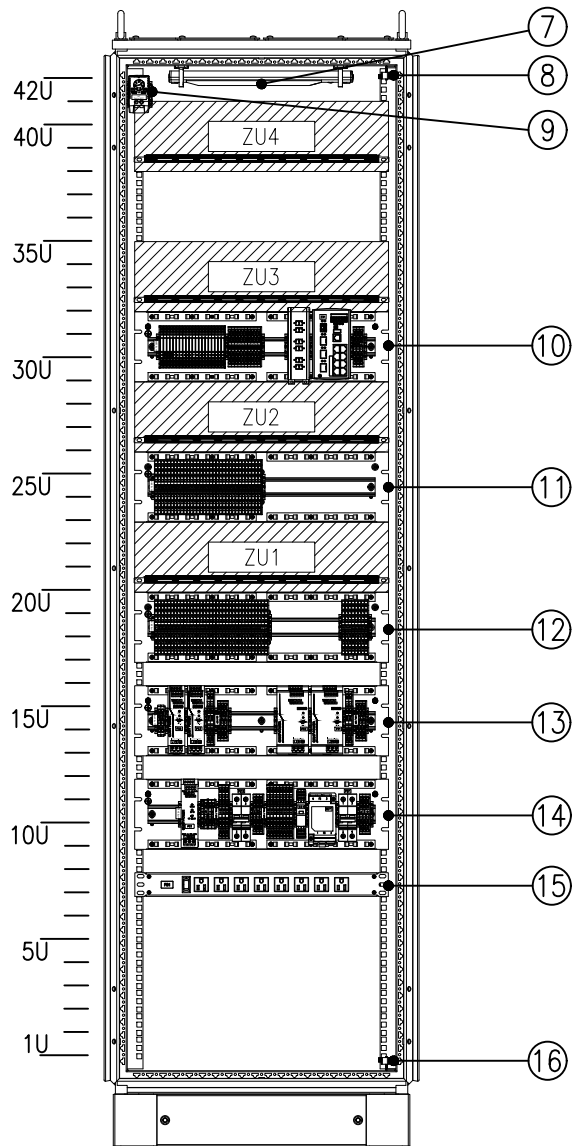
B

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D



FRONT VIEW



REAR VIEW

EQUIPMENTS

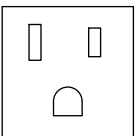
FRONT VIEW OF CABINET

- 1- ZPU-5000 (ZU4)
- 2- ZPU-5000 (ZU3)
- 3- ZPU-5000 (ZU2)
- 4- ZPU-5000 (ZU1)
- 5- RJ-45 PANEL
- 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)
- 12- TERMINAL BLOCKS PANEL (TBP1)
- 13- LOW VOLTAGE SUPPLY PANEL REDUNDANCY (PSP1)
- 14- MAIN POWER PANEL (MAP1)
- 15- MULTI-OUTLET TYPE "B" (PB1)
- 16- PROTECTIVE CONDUCTOR TERMINAL (PCT1)

1U=1.75" OR 44.45mm



ELECTRICAL OUTLET TYPE "B" (PB1)

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Section: E ZOOM MONITORING CABINET INTERNAL COMPONENTS & WIRING

Product number: VSM-CAB-MINE1-100

Drawing number: VSM-DWG-MINE1-100

Sheet: E1 Rev. : 1

Title: ZOOM MONITORING SYSTEM FOR PROJECT: YOUR MINING SITE
MONITORING CABINET EQUIPMENT

1

2

3

4

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

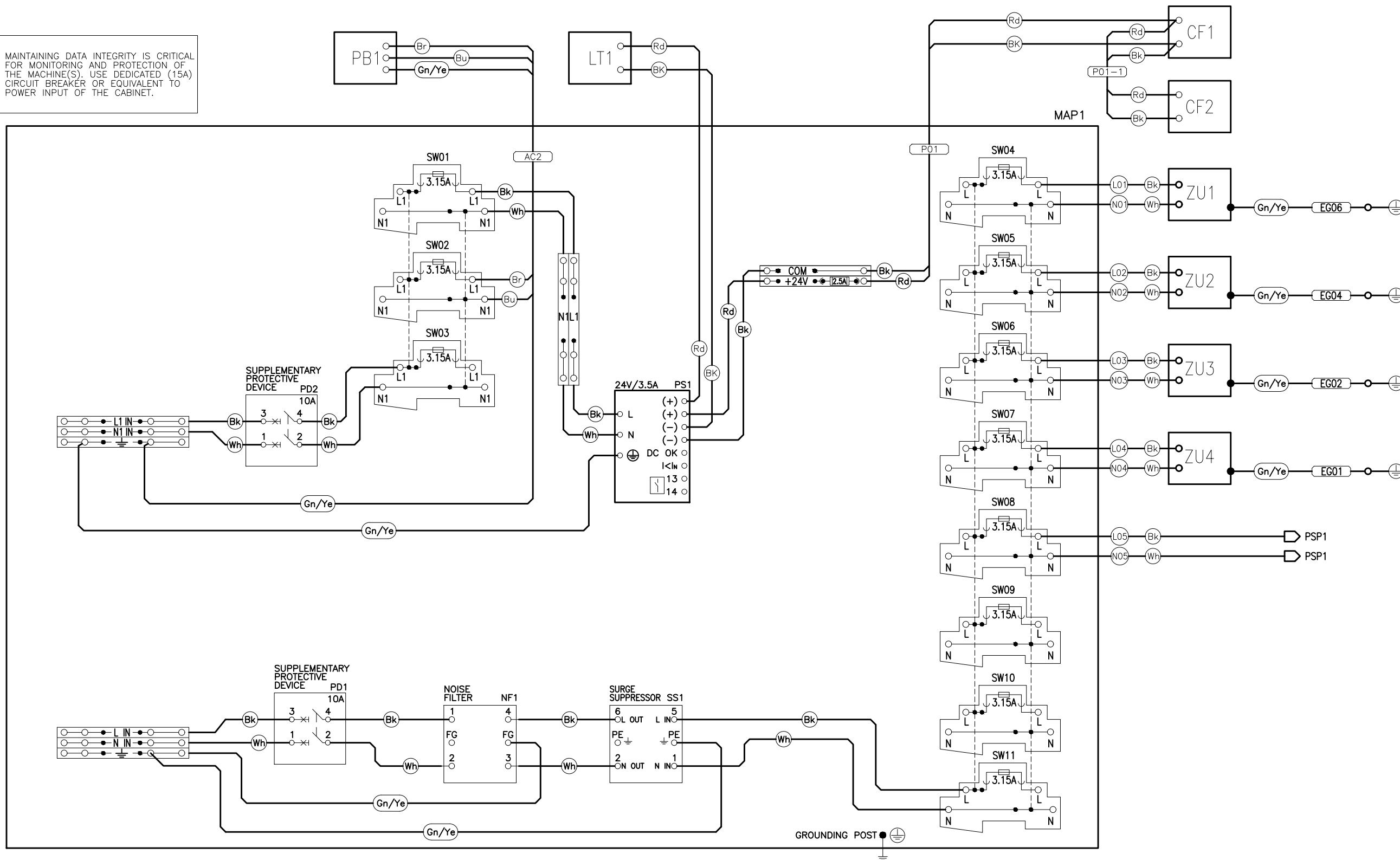


WARNING

MAINTAINING DATA INTEGRITY IS CRITICAL FOR MONITORING AND PROTECTION OF THE MACHINE(S). USE DEDICATED (15A) CIRCUIT BREAKER OR EQUIVALENT TO POWER INPUT OF THE CABINET.

100–240Vac (50/60Hz)

100–240Vac (50/60Hz)



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Section: E ZOOM MONITORING CABINET INTERNAL COMPONENTS & WIRING

Product number:
VSM–CAB–MINE1–100

Drawing number:
VSM–DWG–MINE1–100

Sheet: E2
Rev.: 1

Title: ZOOM MONITORING SYSTEM FOR PROJECT: YOUR MINING SITE
ELECT. SCHEMATIC MAIN & AUXILIARY SUPPLY (MAP1)

A

B

C

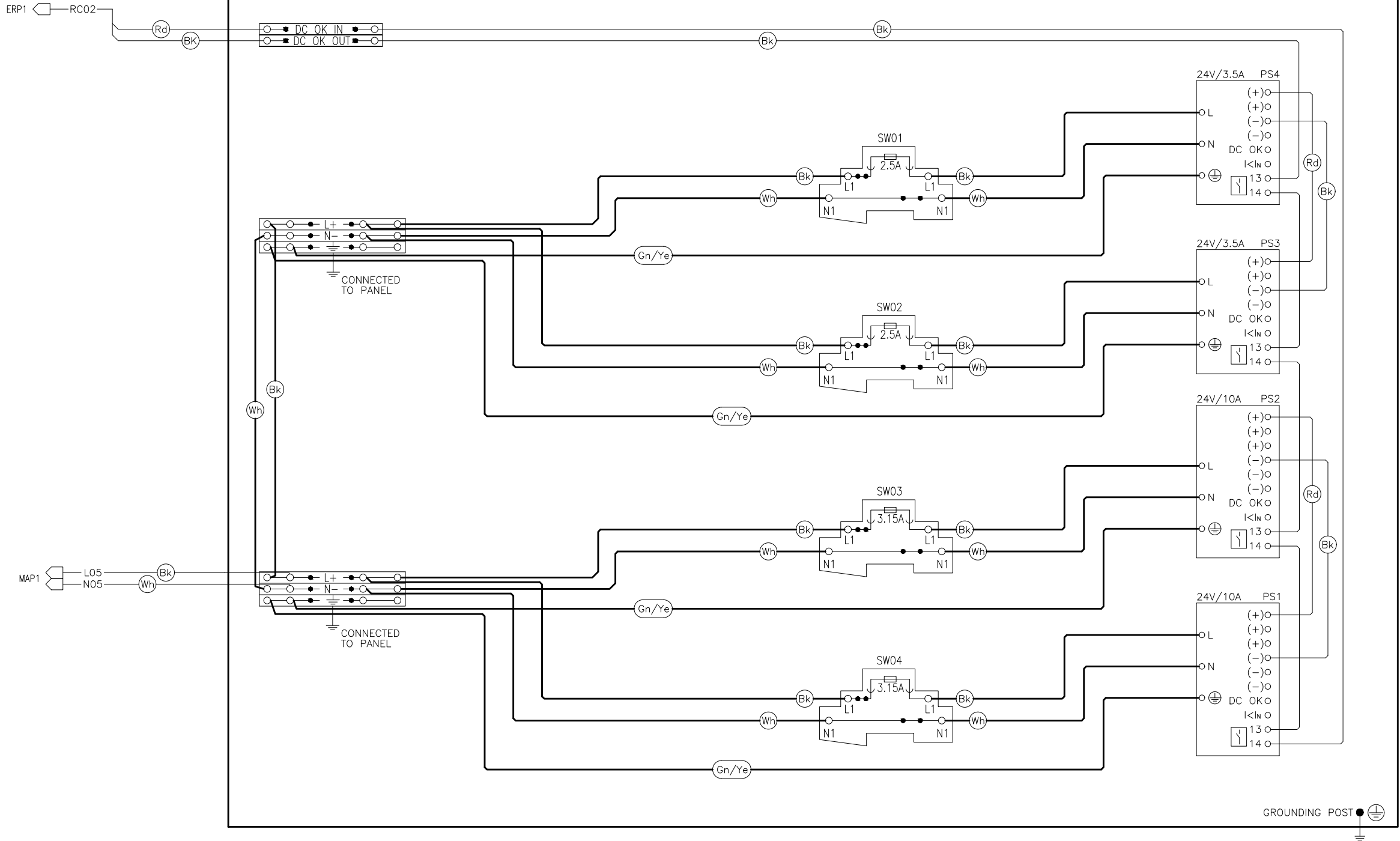
D

A

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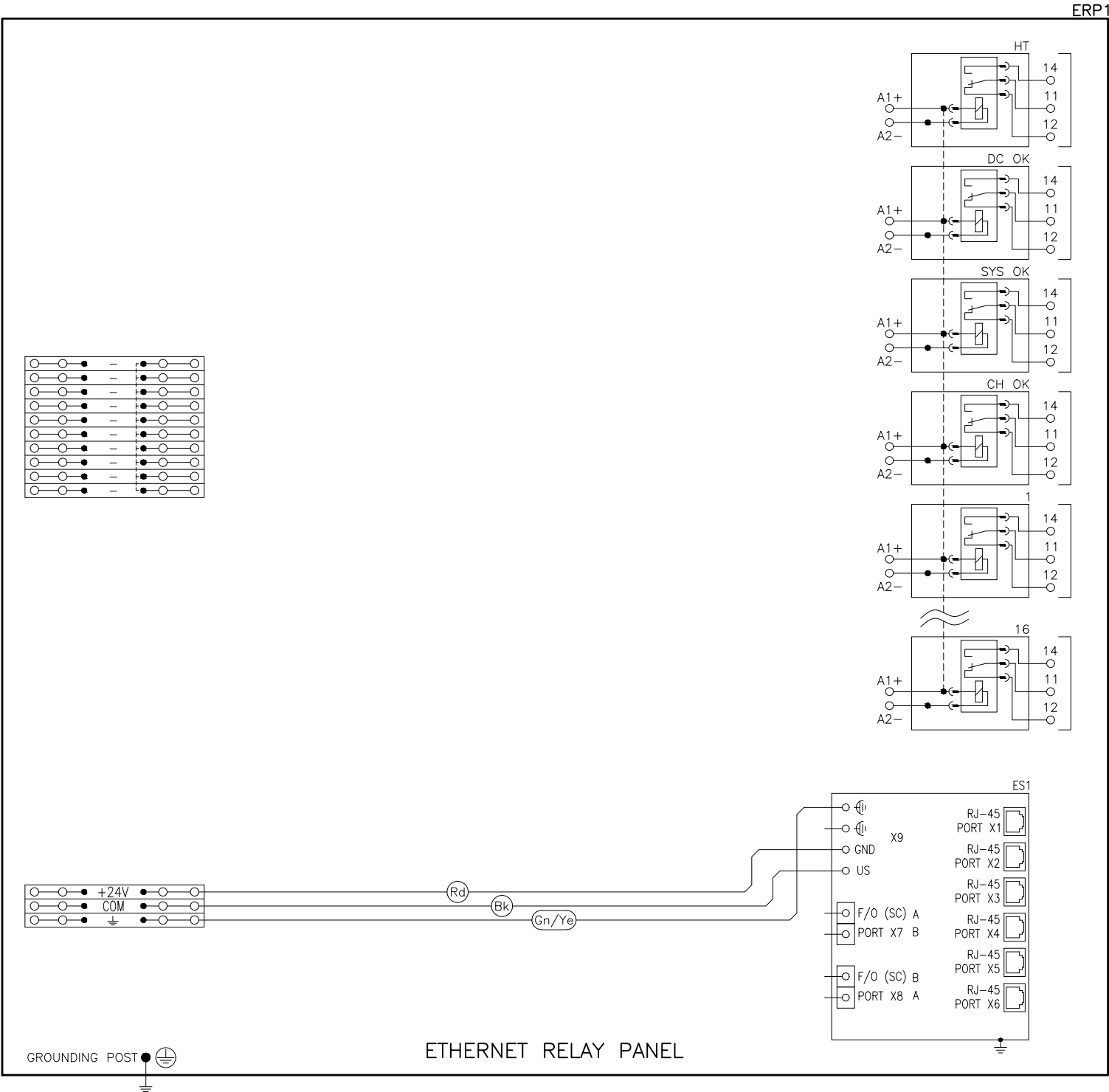


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Section: E	ZOOM MONITORING CABINET INTERNAL COMPONENTS & WIRING		
Product number:	VSM-CAB-MINE1-100	Drawing number:	VSM-DWG-MINE1-100
Sheet:	E3	Rev. :	1

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



A

B

C

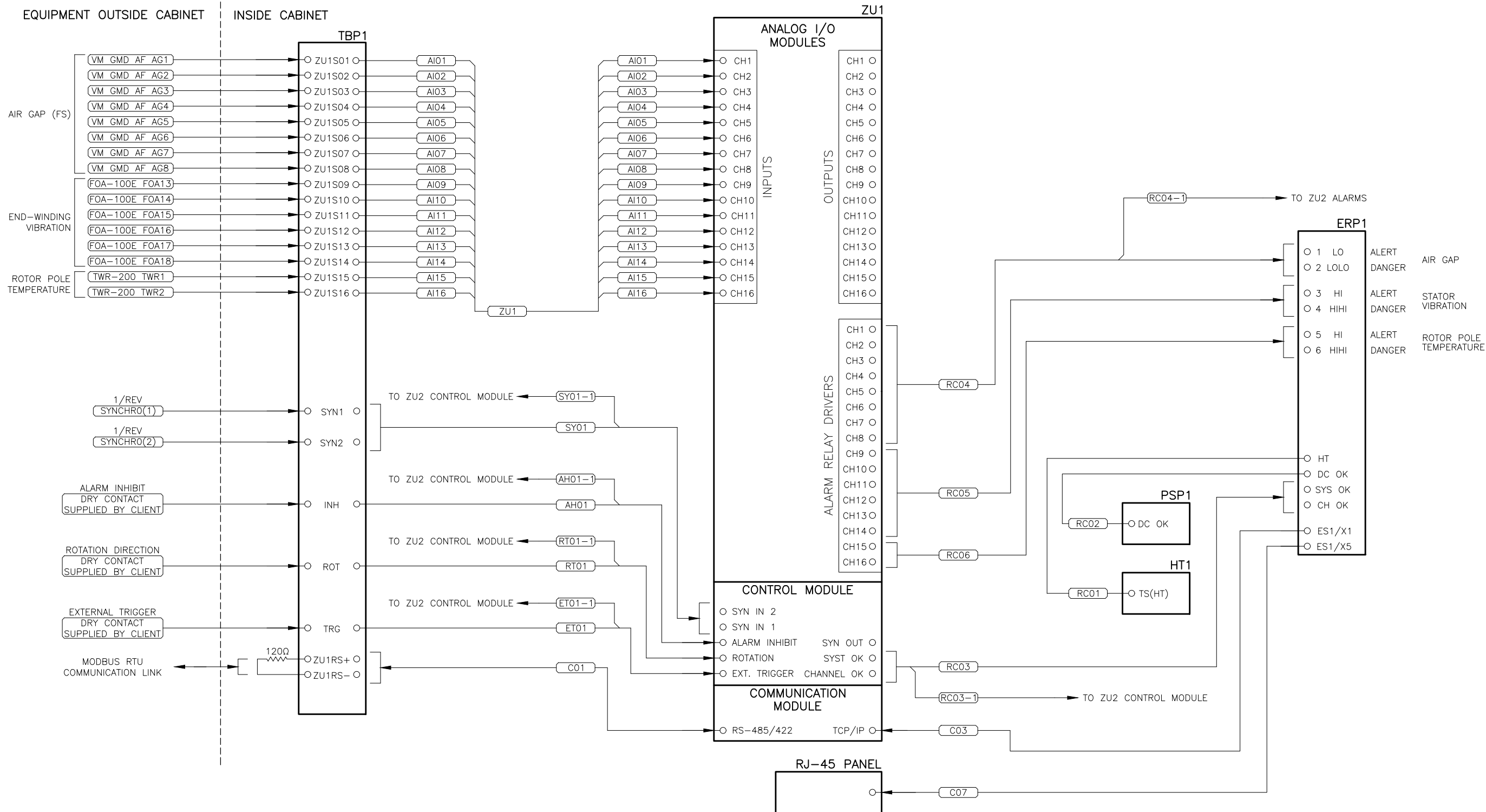
D

A

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D



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Section: E ZOOM MONITORING CABINET INTERNAL COMPONENTS & WIRING
Product number: VSM-CAB-MINE1-100
Drawing number: VSM-DWG-MINE1-100
Sheet: E5 Rev. : 1

Title: ZOOM MONITORING SYSTEM FOR PROJECT: YOUR MINING SITE
MONITORING EQUIPMENT SCHEMATIC ZU1

A

B

C

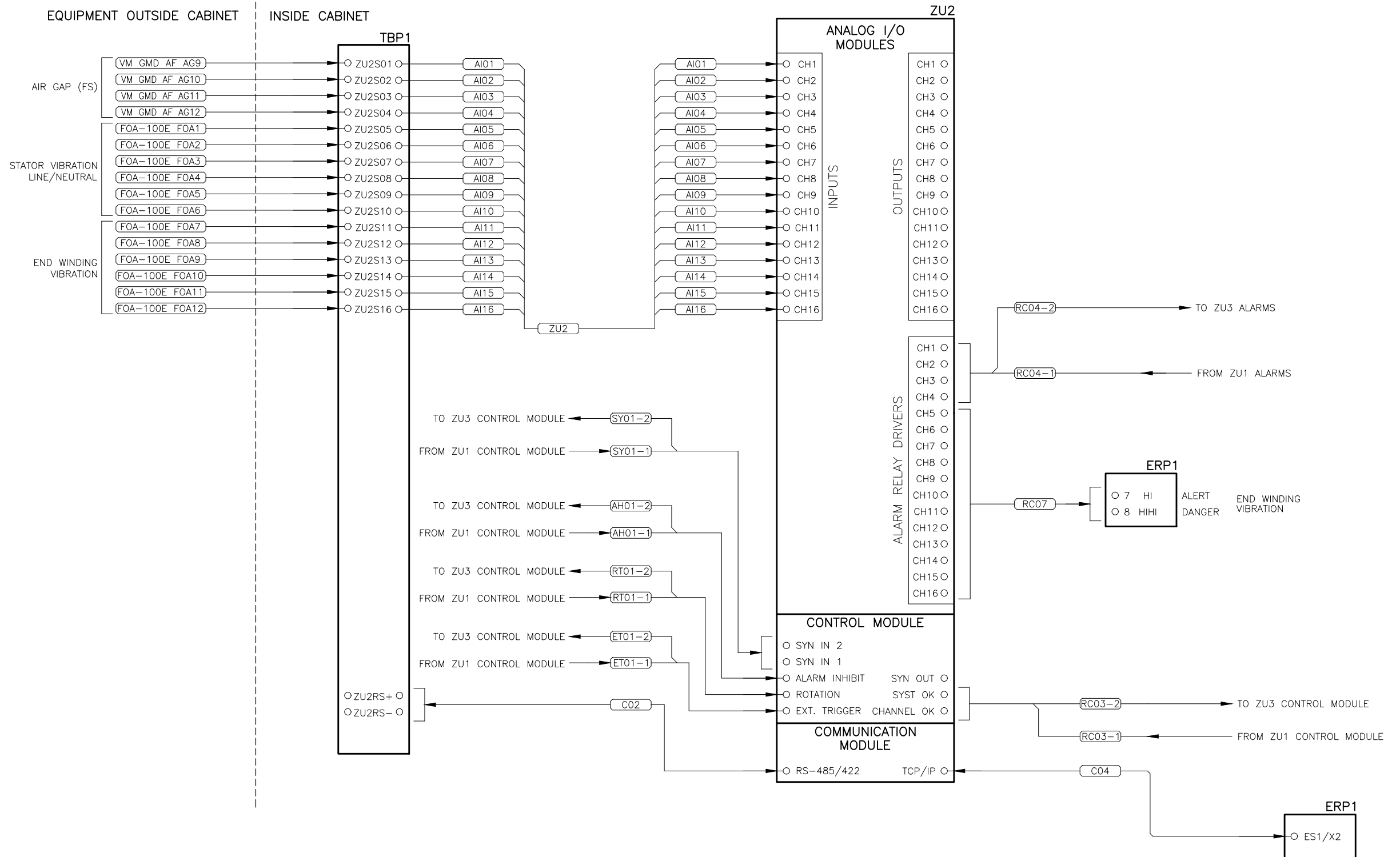
D

A

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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: E6	Rev. : 1
				MONITORING EQUIPMENT SCHEMATIC ZU2		

A

B

C

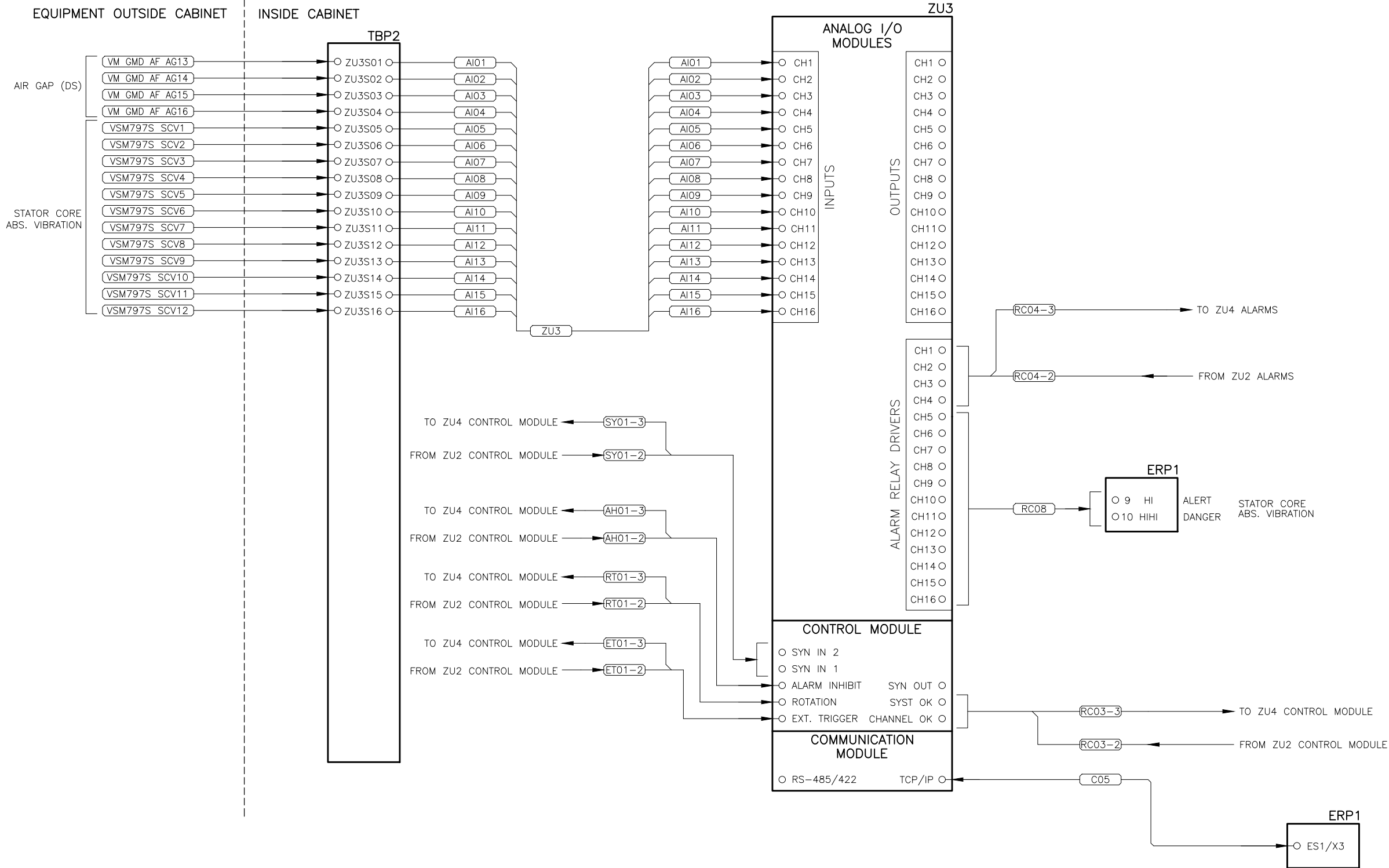
D

A

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Section: E ZOOM MONITORING CABINET INTERNAL COMPONENTS & WIRING

Product number: VSM-CAB-MINE1-100

Drawing number: VSM-DWG-MINE1-100

Sheet: E7 Rev.: 1

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

A

B

C

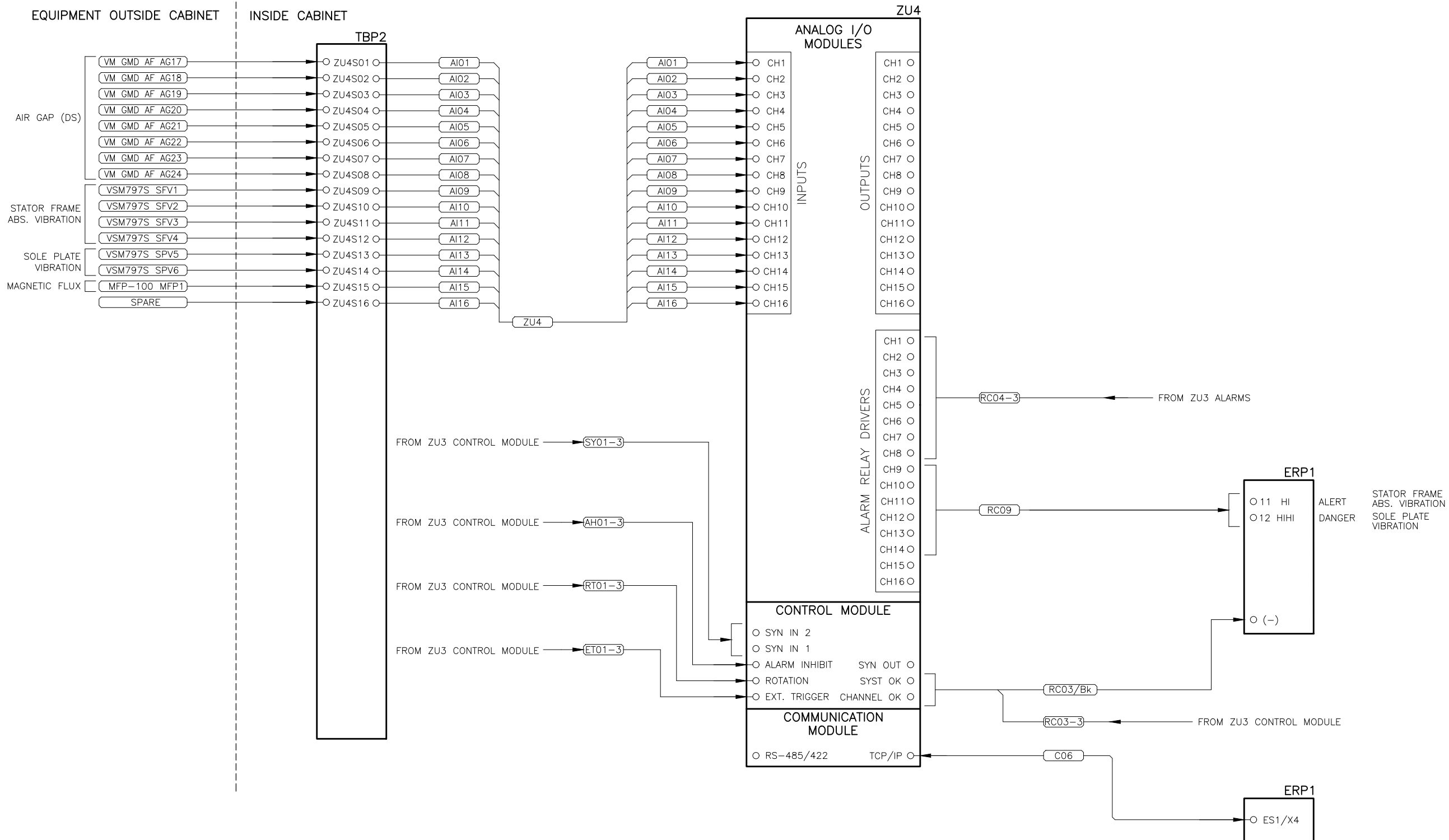
D

A

B

C

D



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Section: E ZOOM MONITORING CABINET INTERNAL COMPONENTS & WIRING
Product number: VSM-CAB-MINE1-100
Drawing number: VSM-DWG-MINE1-100
Sheet: E8 Rev.: 1

Title: ZOOM MONITORING SYSTEM FOR PROJECT: YOUR MINING SITE
MONITORING EQUIPMENT SCHEMATIC ZU4



A

B

C

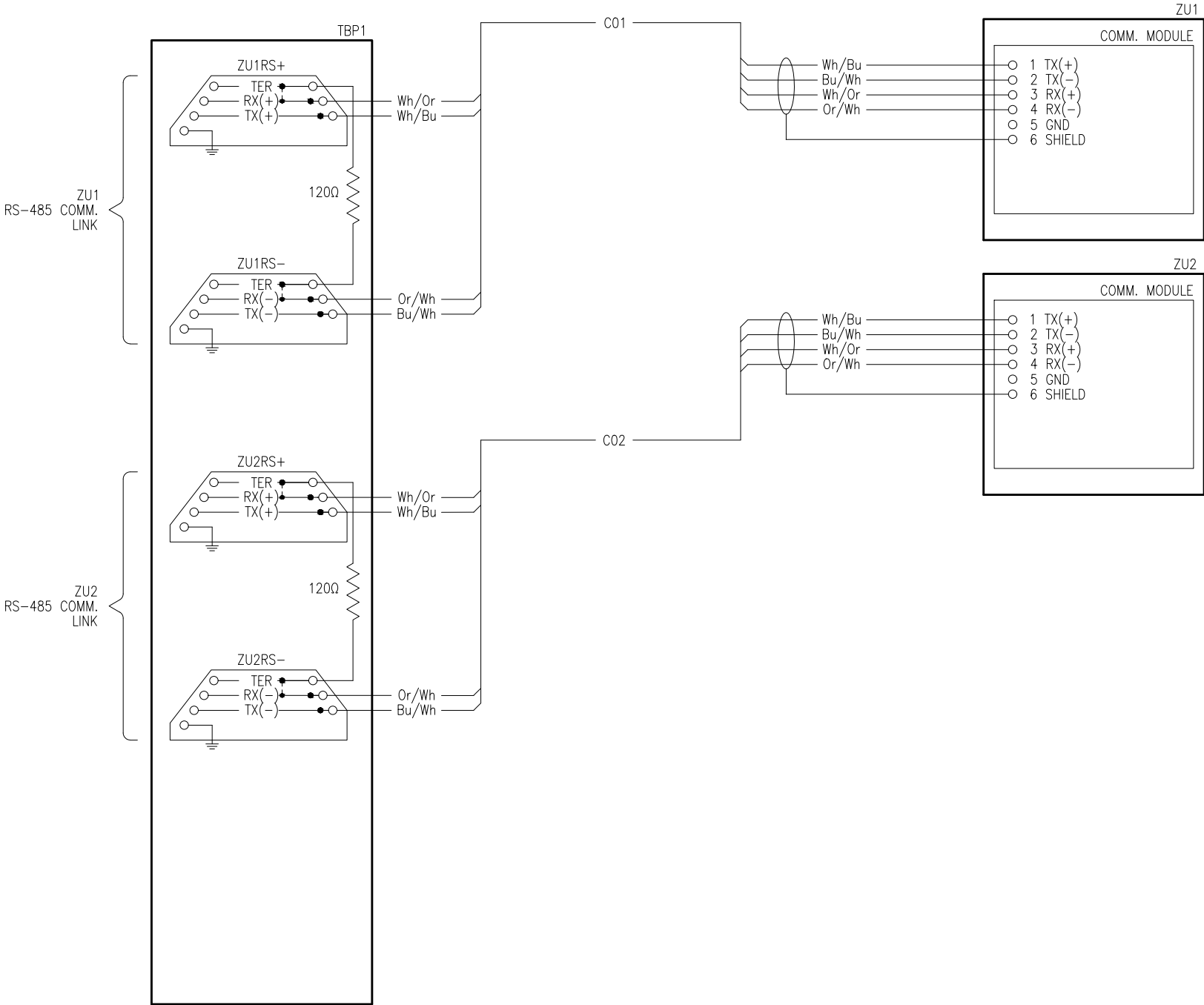
D

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Section: E ZOOM MONITORING CABINET INTERNAL COMPONENTS & WIRING

Product number:
VSM-CAB-MINE1-100

Drawing number:
VSM-DWG-MINE1-100

Sheet: E10
Rev. : 1

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

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VSM-DWG-MINE1-100-E10-1.DWG

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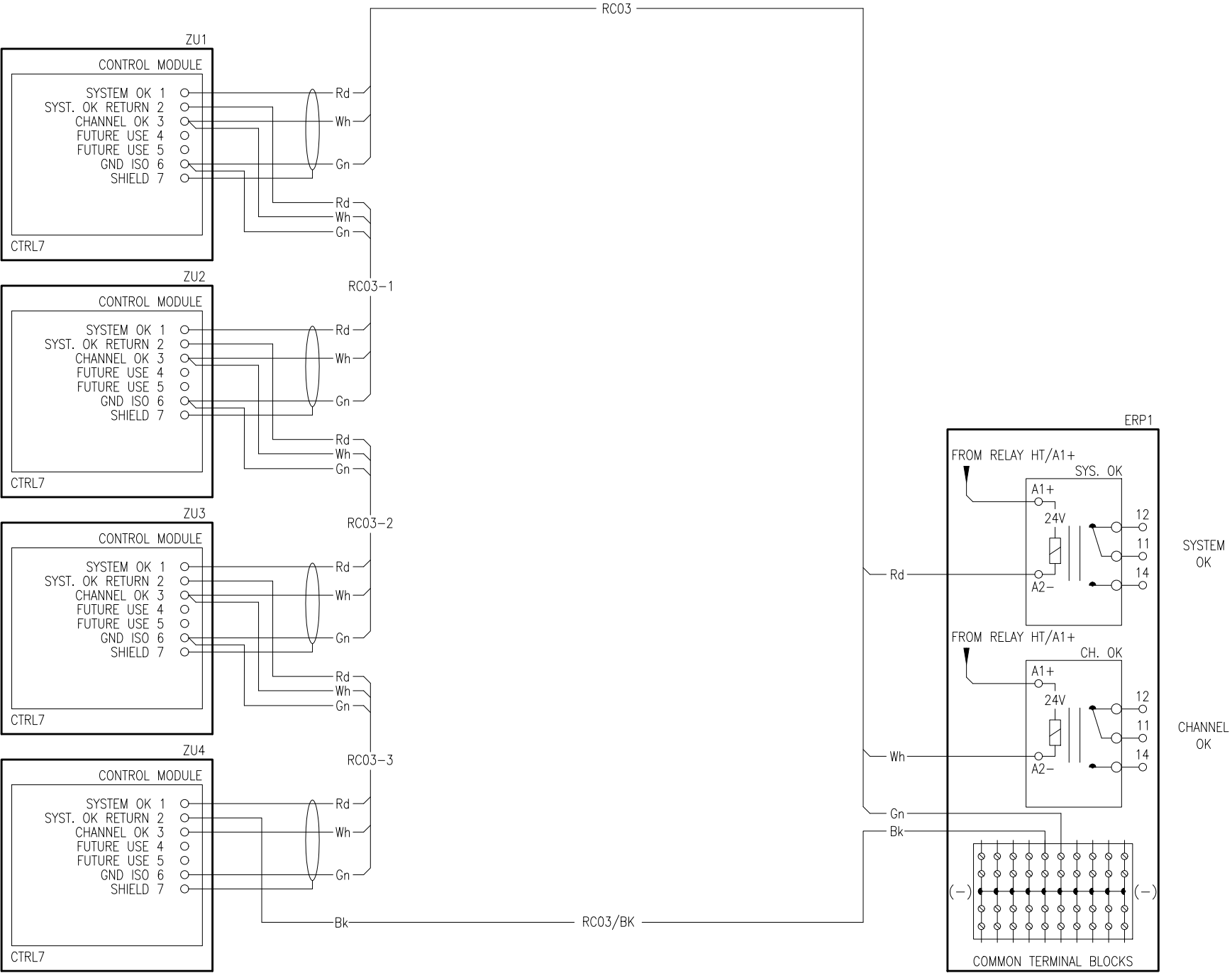
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Section: E ZOOM MONITORING CABINET INTERNAL COMPONENTS & WIRING

Product number:
VSM-CAB-MINE1-100

Drawing number:
VSM-DWG-MINE1-100

Sheet: E11
Rev. : 1

Title: ZOOM MONITORING SYSTEM FOR PROJECT: YOUR MINING SITE
ELECT. SCHEMATIC SYS. OK- CH. OK ALARMS

A

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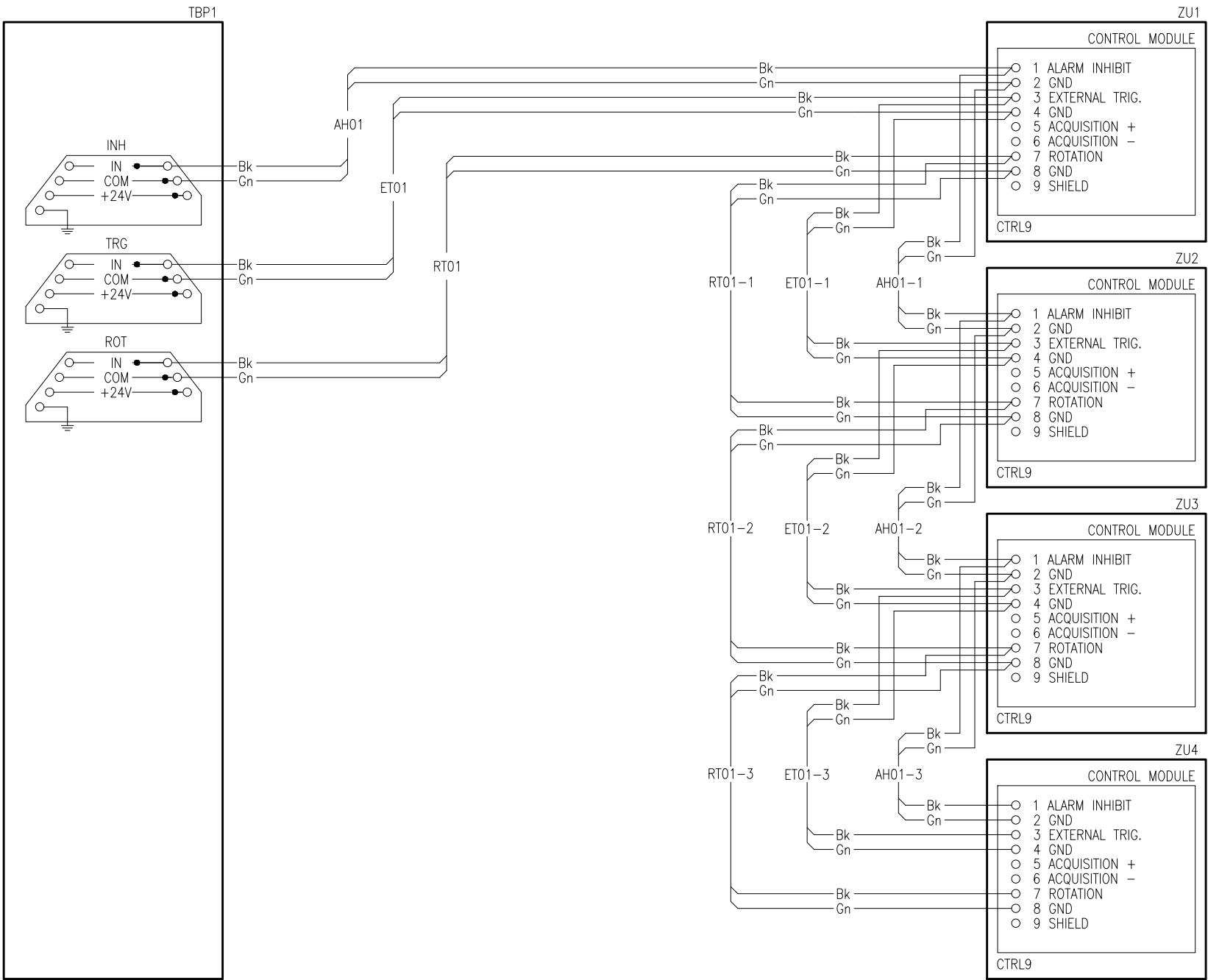
D

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Section: E ZOOM MONITORING CABINET INTERNAL COMPONENTS & WIRING

Product number: VSM-CAB-MINE1-100

Drawing number: VSM-DWG-MINE1-100

Sheet: E12 Rev. : 1

Title: ZOOM MONITORING SYSTEM FOR PROJECT: YOUR MINING SITE
ELECT. SCHEMATIC CLIENT PARAMETERS

1

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VSM-DWG-MINE1-100-E12-1.DWG

A

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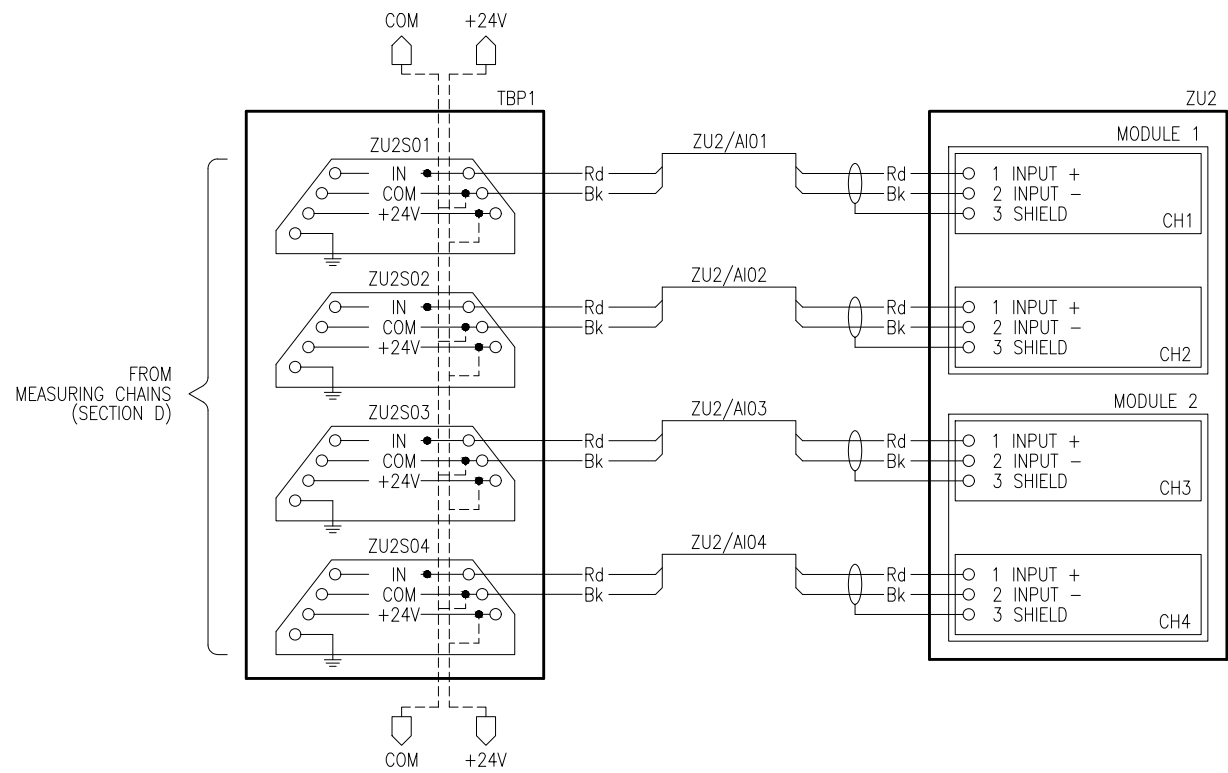
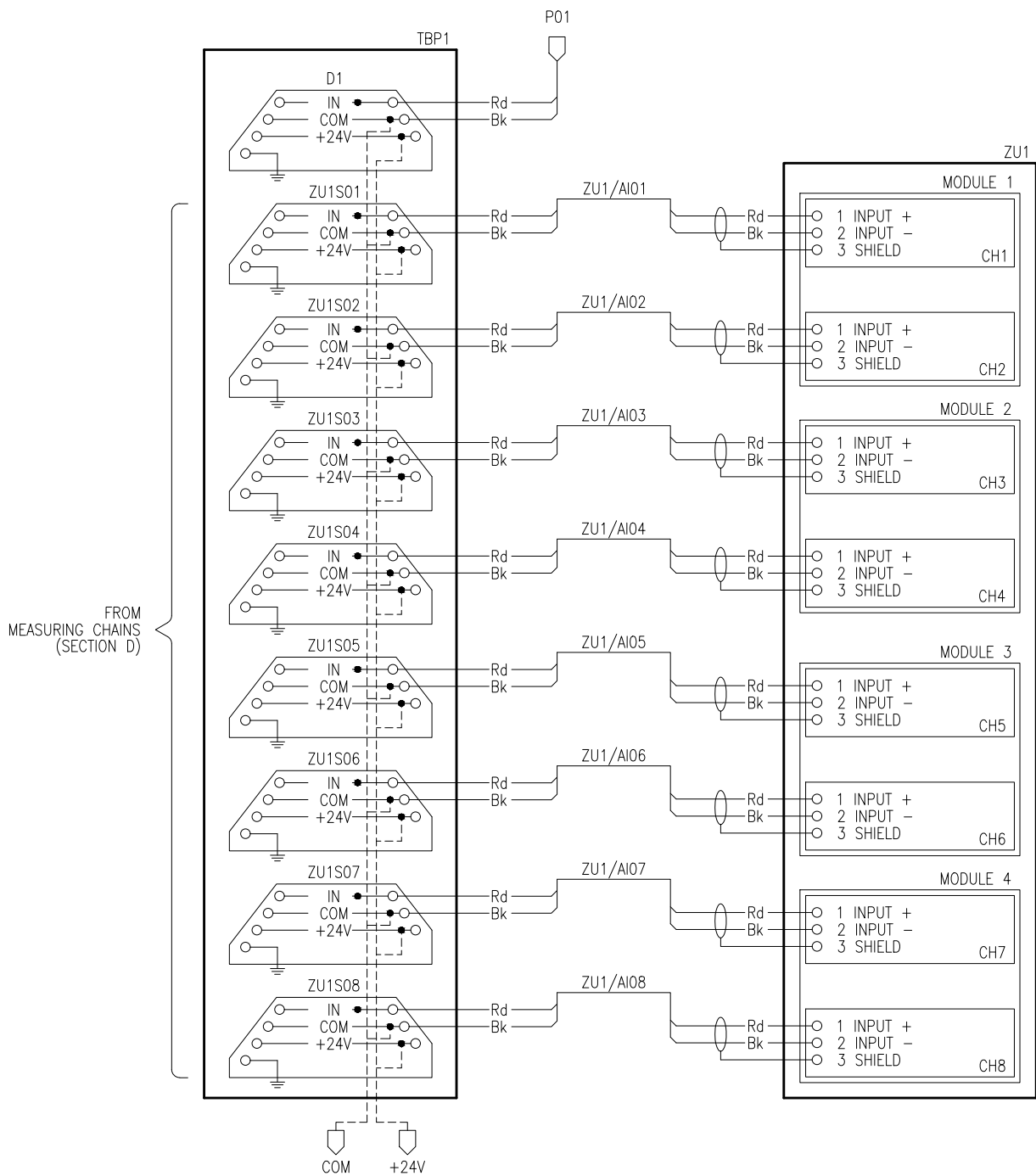
4

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Section: E ZOOM MONITORING CABINET INTERNAL COMPONENTS & WIRING

Product number: VSM-CAB-MINE1-100

Drawing number: VSM-DWG-MINE1-100

Sheet: E13 Rev. : 1

Title: ZOOM MONITORING SYSTEM FOR PROJECT: YOUR MINING SITE
ELECT. SCHEMATIC AIR GAP INPUTS

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

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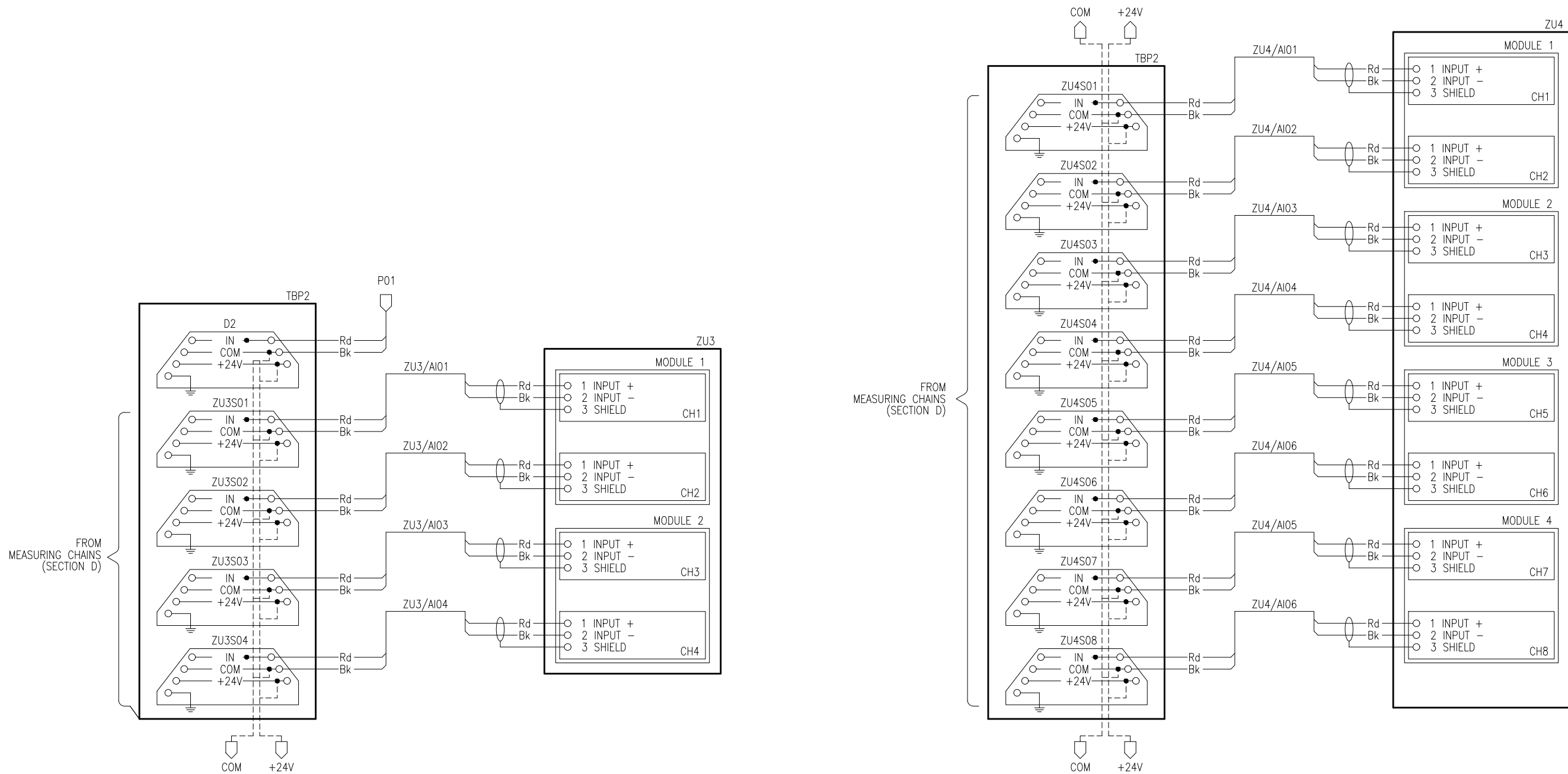
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Section: E ZOOM MONITORING CABINET INTERNAL COMPONENTS & WIRING

Product number: VSM-CAB-MINE1-100

Drawing number: VSM-DWG-MINE1-100

Sheet: E14 Rev.: 1

Title: ZOOM MONITORING SYSTEM FOR PROJECT: YOUR MINING SITE
ELECT. SCHEMATIC AIR GAP INPUTS

1

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3

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

A

B

C

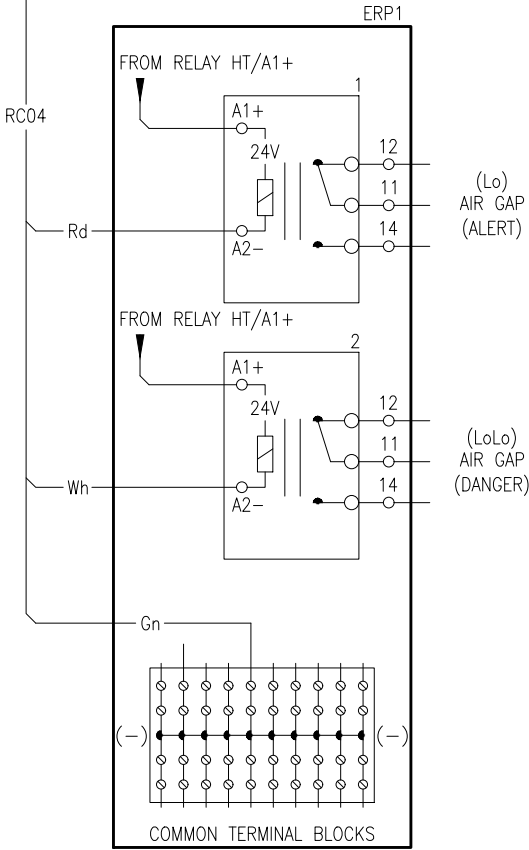
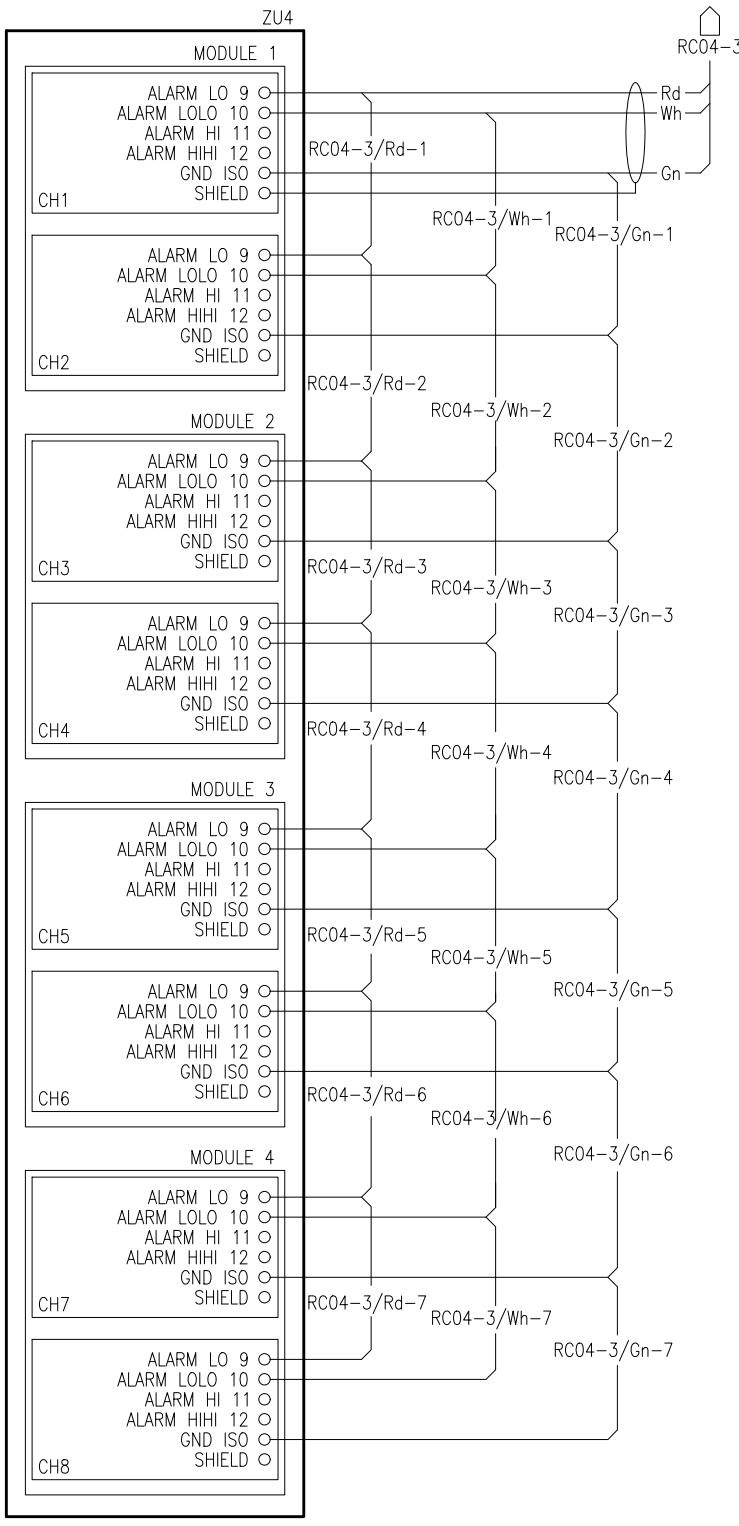
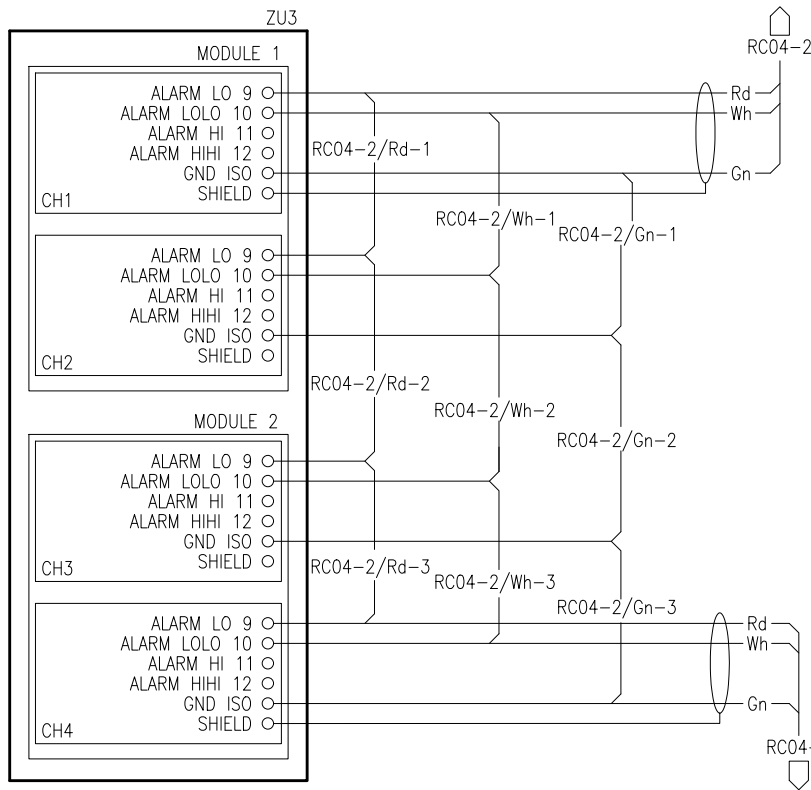
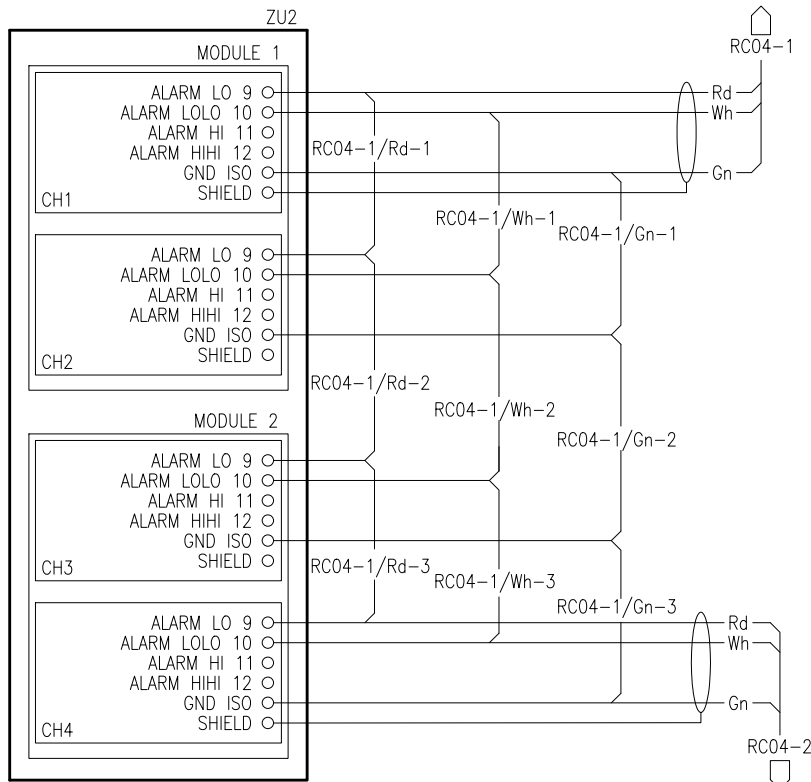
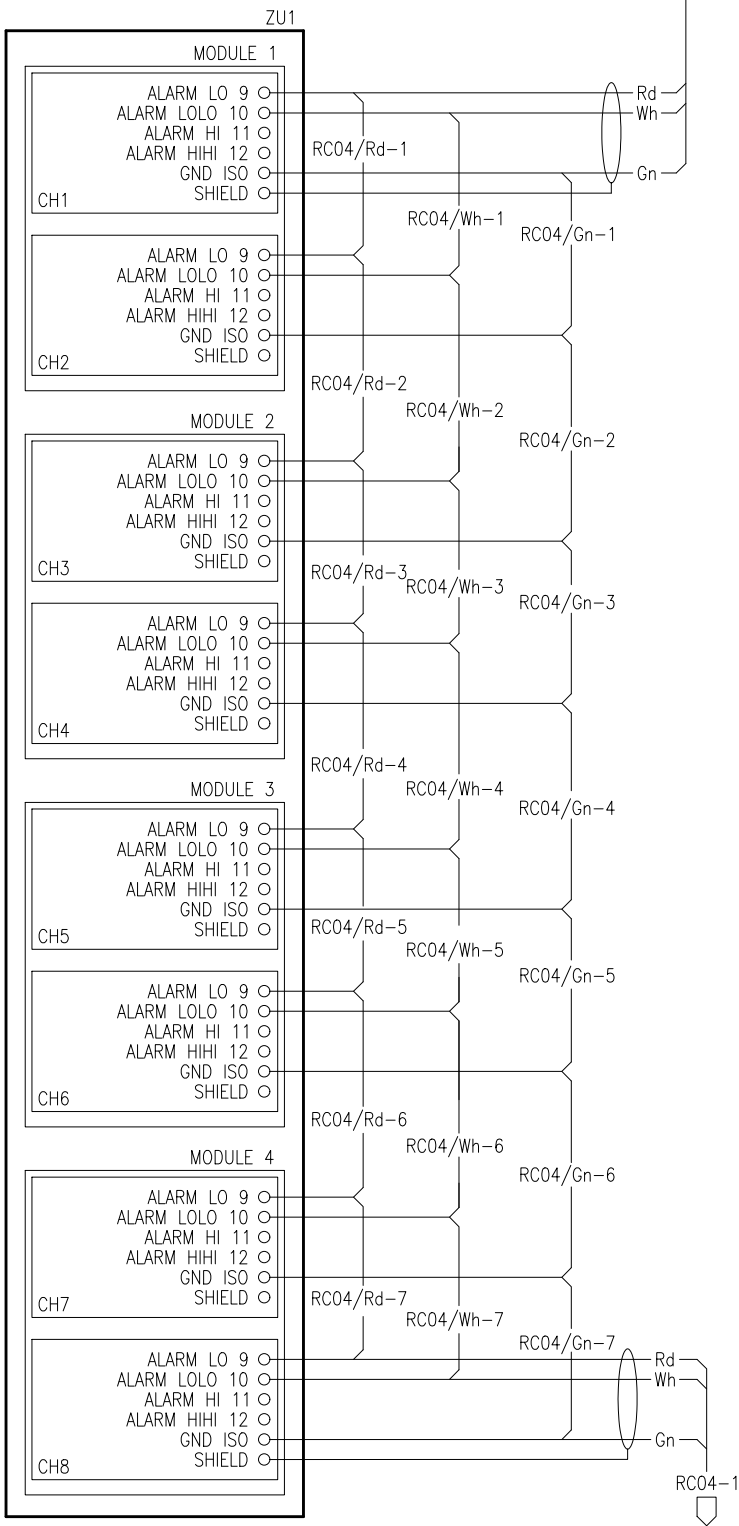
D

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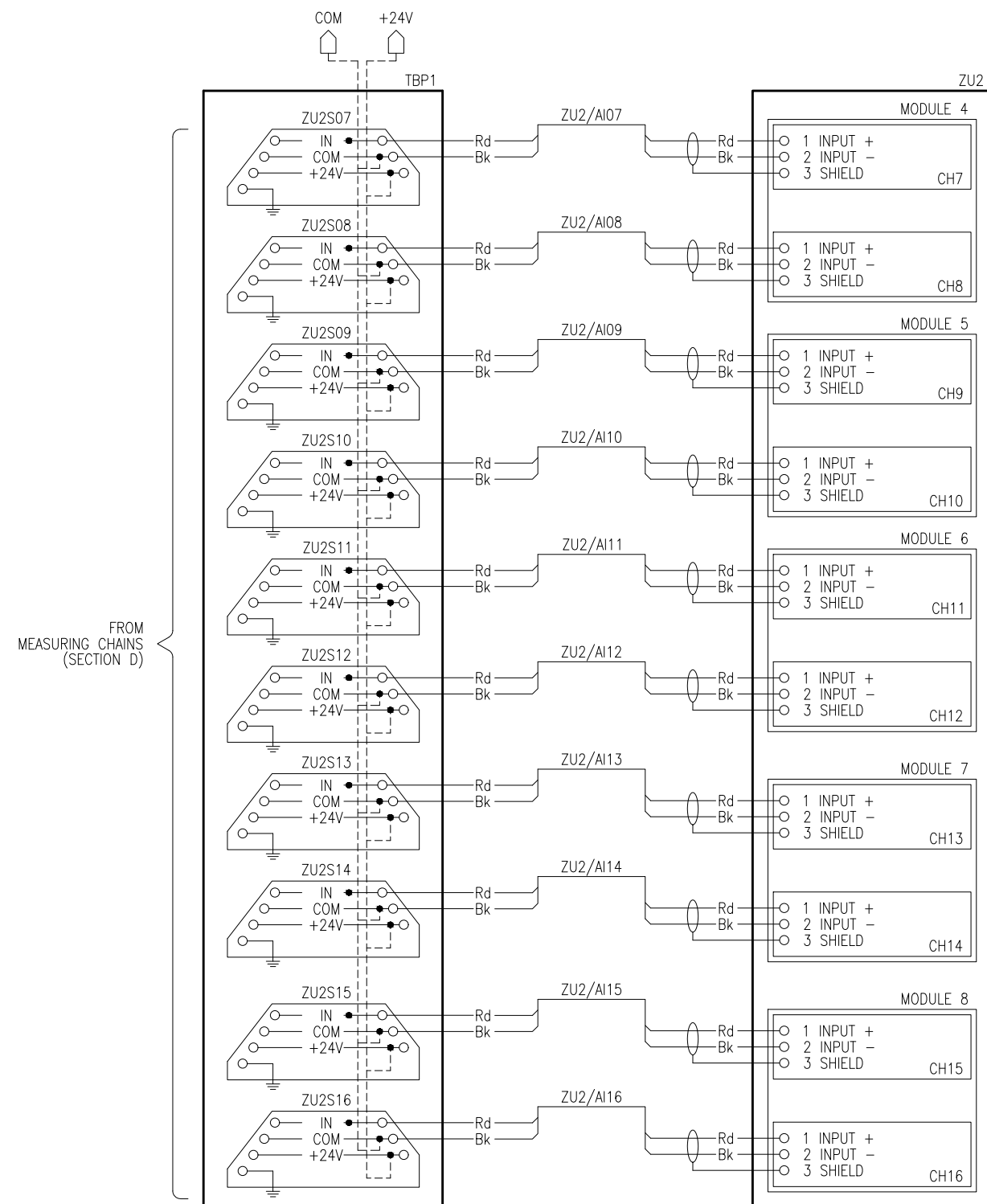
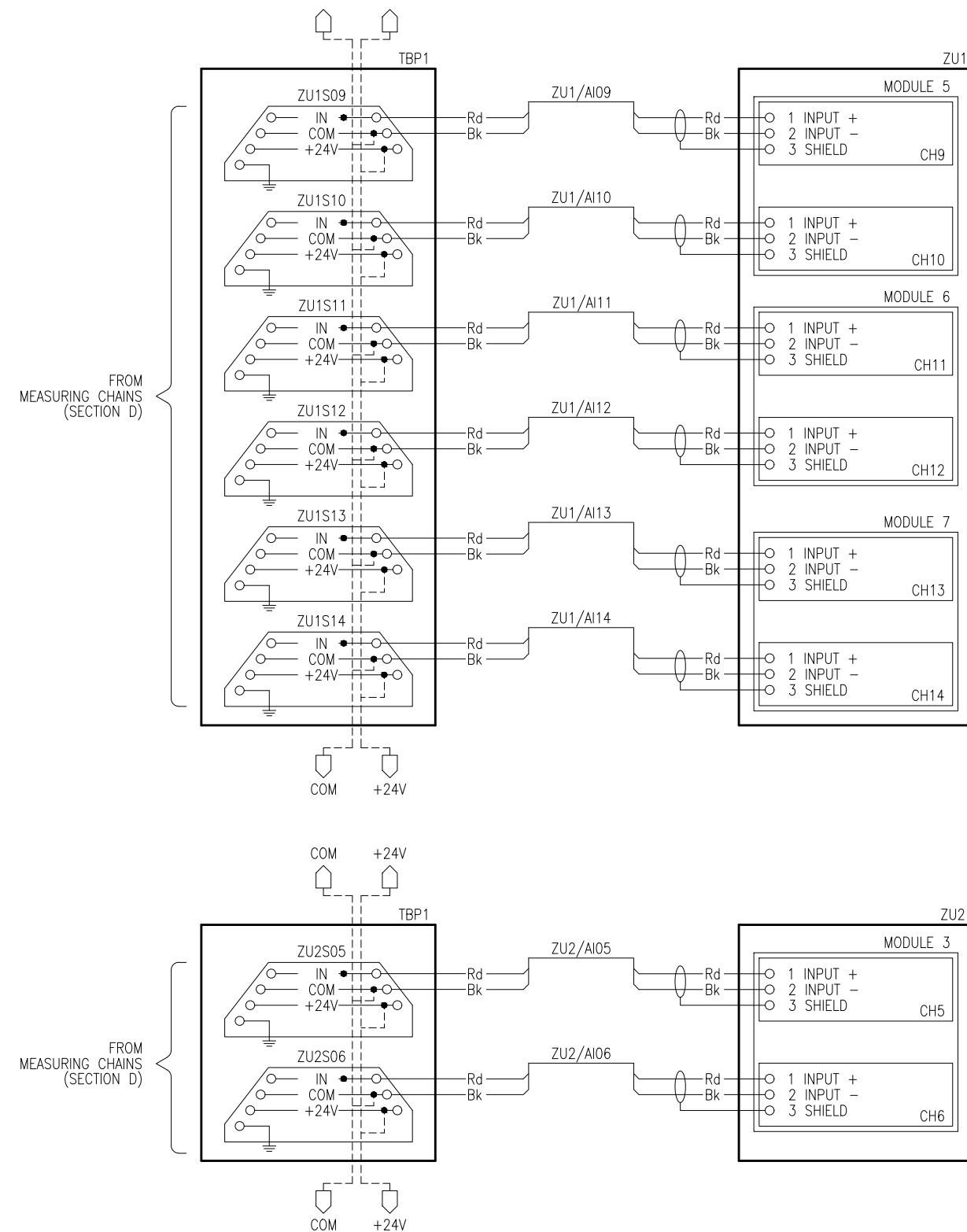
Section: E ZOOM MONITORING CABINET INTERNAL COMPONENTS & WIRING

Product number: VSM-CAB-MINE1-100

Drawing number: VSM-DWG-MINE1-100

Sheet: E15 Rev.: 1

Title: ZOOM MONITORING SYSTEM FOR PROJECT: YOUR MINING SITE
ELECT. SCHEMATIC AIR GAP ALARMS



A

B

C

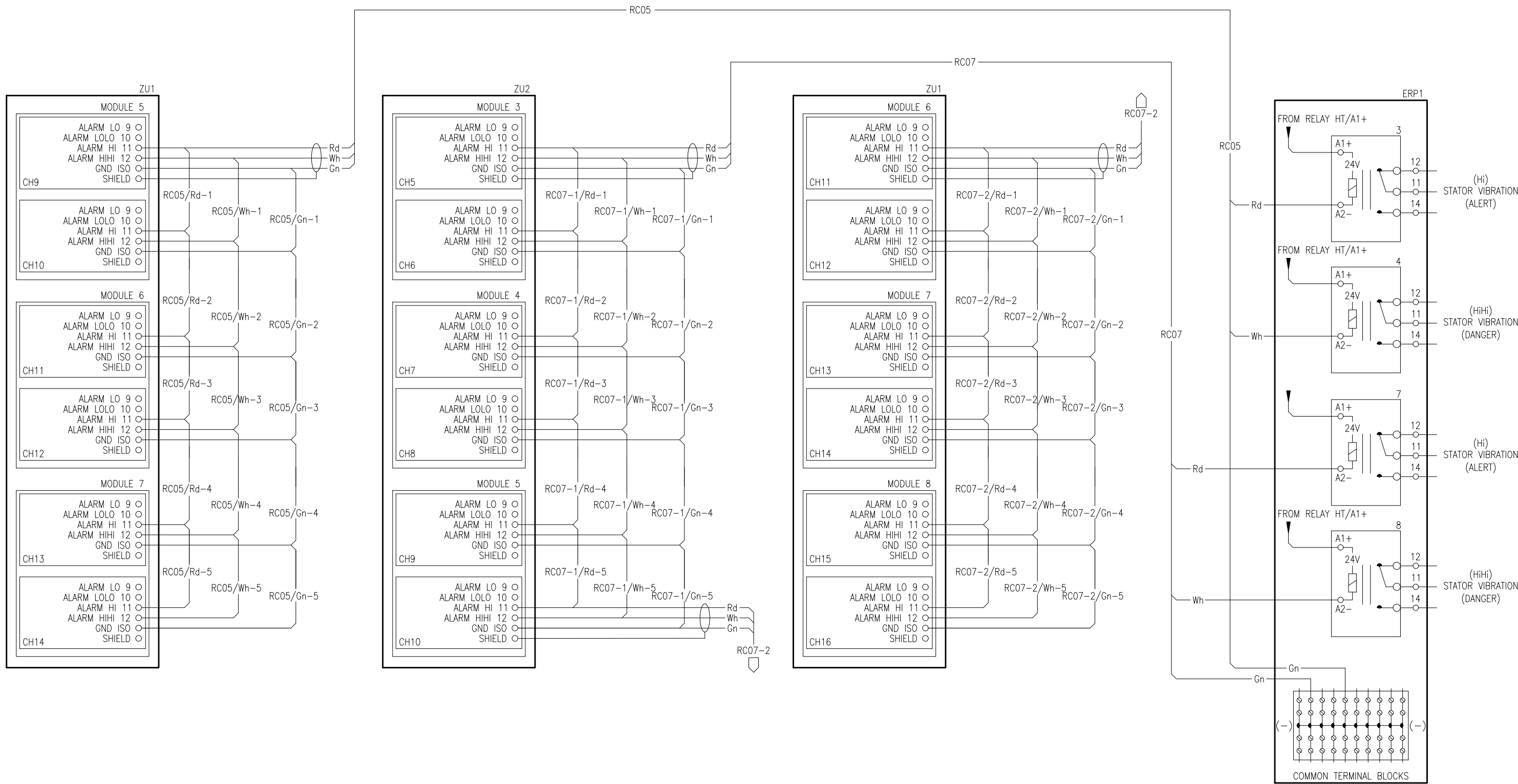
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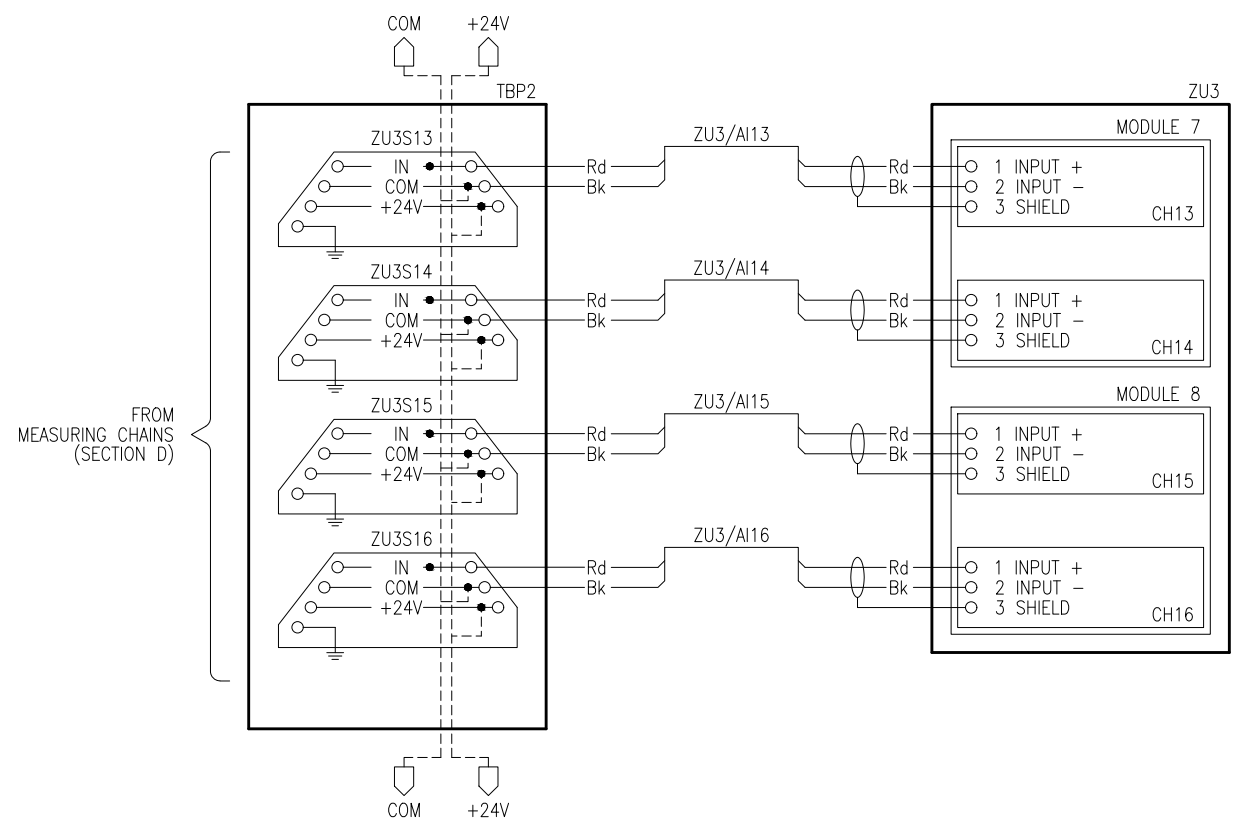
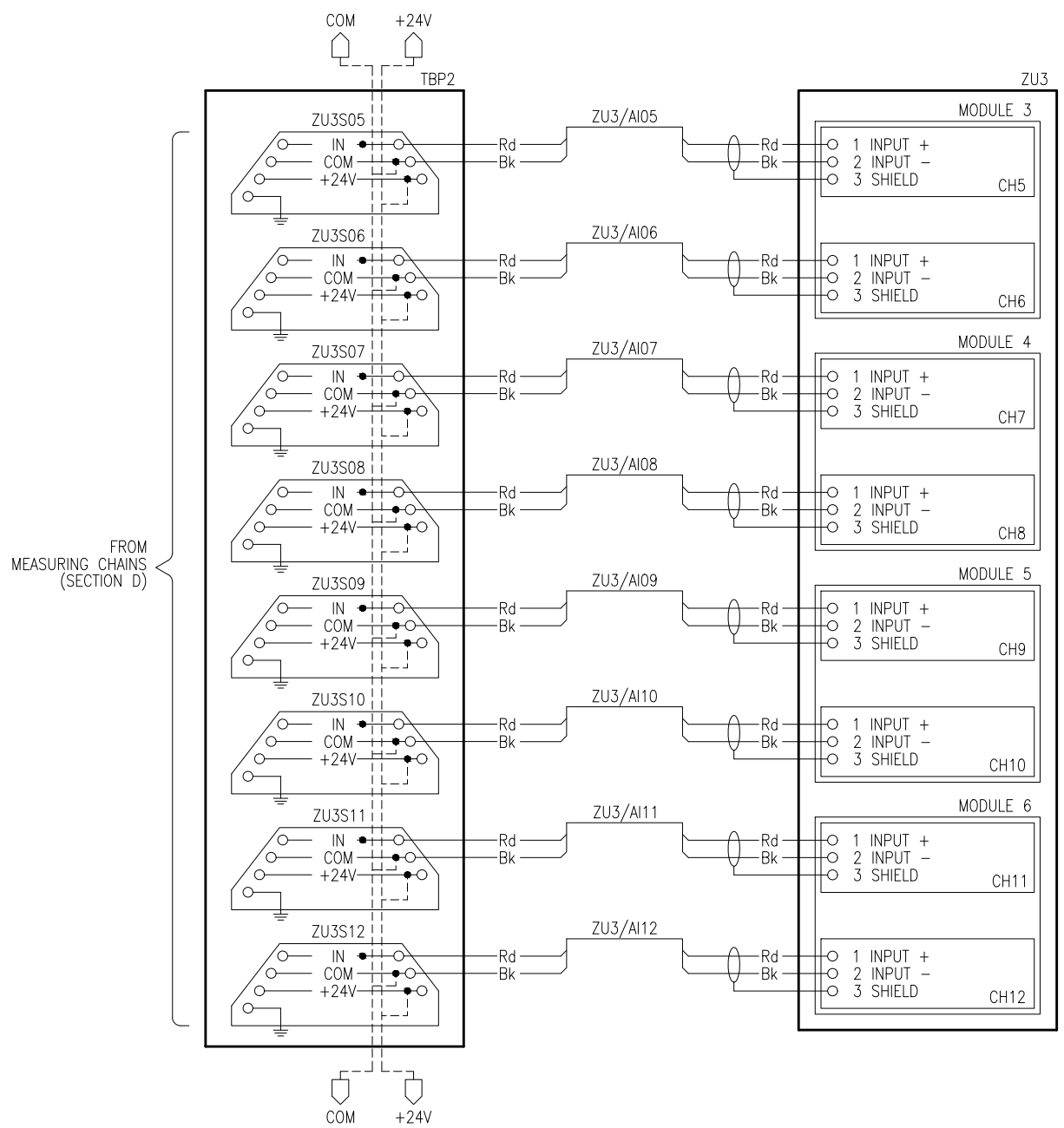
© Copyright VibroSystM inc.2023		Section: E ZOOM MONITORING CABINET INTERNAL COMPONENTS & WIRING			Title: ZOOM MONITORING SYSTEM FOR PROJECT: YOUR MINING SITE	
VibroSystM inc. reserves the right to make changes without prior notice to improve the product.		Product number: VSM-CAB-MINE1-100	Drawing number: VSM-DWG-MINE1-100	Sheet: E17	Rev. : 1	ELECT. SCHEMATIC END-WINDING ALARMS

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Section: E ZOOM MONITORING CABINET INTERNAL COMPONENTS & WIRING
Product number: VSM-CAB-MINE1-100
Drawing number: VSM-DWG-MINE1-100
Sheet: E18 Rev. : 1

Title: ZOOM MONITORING SYSTEM FOR PROJECT: YOUR MINING SITE
ELECT. SCHEMATIC STATOR CORE VIBRATION ANALOG INPUTS

A

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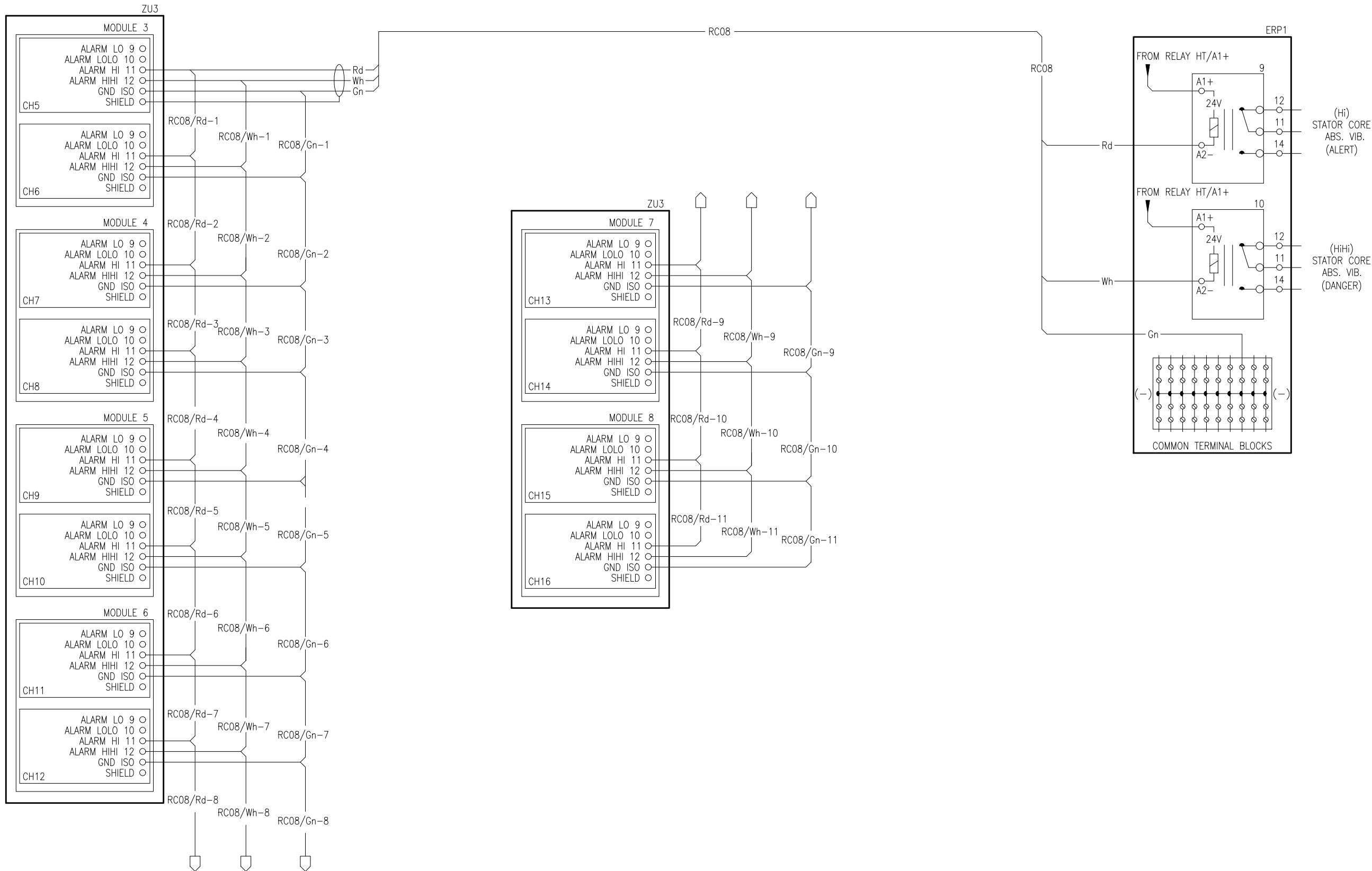
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Section: E ZOOM MONITORING CABINET INTERNAL COMPONENTS & WIRING

Product number: VSM-CAB-MINE1-100

Drawing number: VSM-DWG-MINE1-100

Sheet: E19 Rev. : 1

Title: ZOOM MONITORING SYSTEM FOR PROJECT: YOUR MINING SITE
ELECT. SCHEMATIC STATOR CORE ALARMS

A

B

C

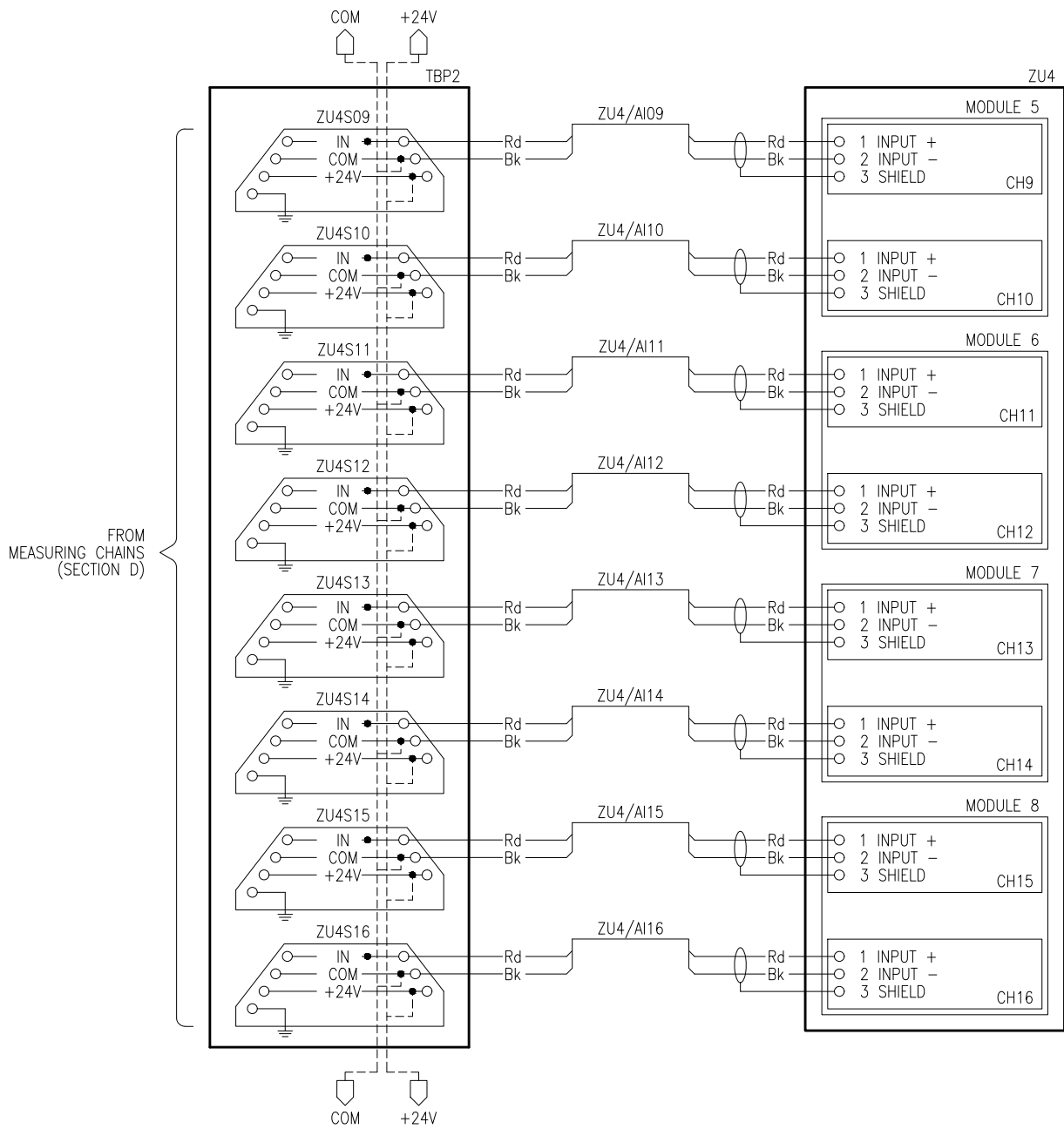
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Section: E ZOOM MONITORING CABINET INTERNAL COMPONENTS & WIRING

Product number: VSM-CAB-MINE1-100

Drawing number: VSM-DWG-MINE1-100

Sheet: E20 Rev. : 1

Title: ZOOM MONITORING SYSTEM FOR PROJECT: YOUR MINING SITE
ELECT. SCHEMATIC STATOR FRAME & SOLE PLATE VIB. ANALOG INPUTS

A

B

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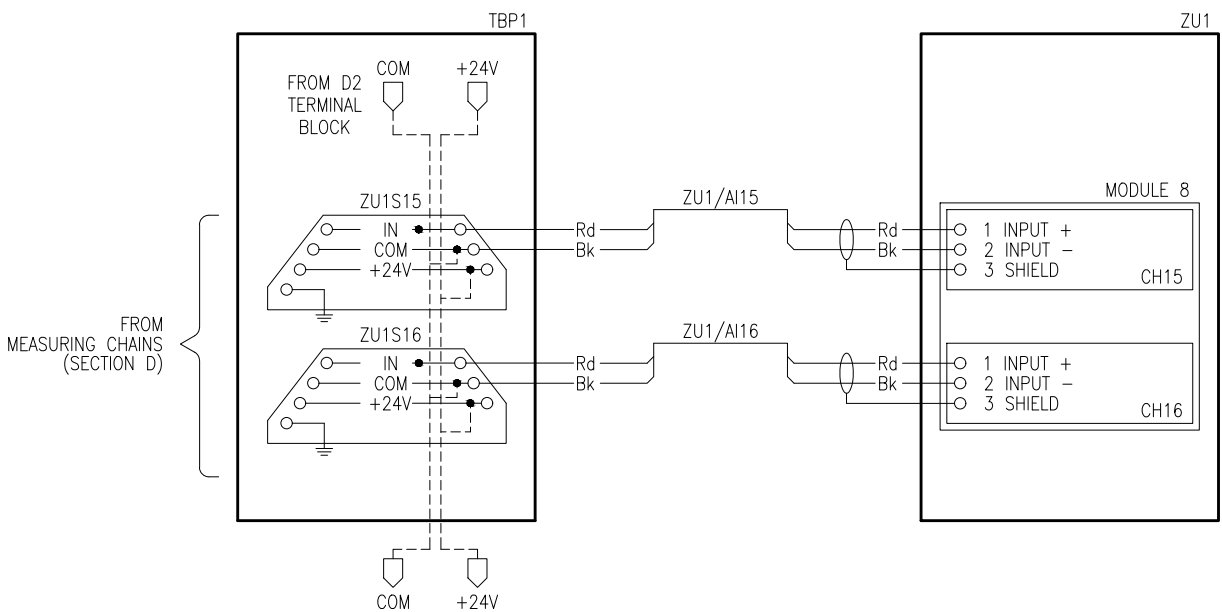
D

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Section: E ZOOM MONITORING CABINET INTERNAL COMPONENTS & WIRING

Product number:
VSM-CAB-MINE1-100

Drawing number:
VSM-DWG-MINE1-100

Sheet: E22
Rev. : 1

Title: ZOOM MONITORING SYSTEM FOR PROJECT: YOUR MINING SITE
ELECT. SCHEMATIC ROTOR TEMPERATURE ANALOG INPUTS

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VSM-DWG-MINE1-100-E22-1.DWG

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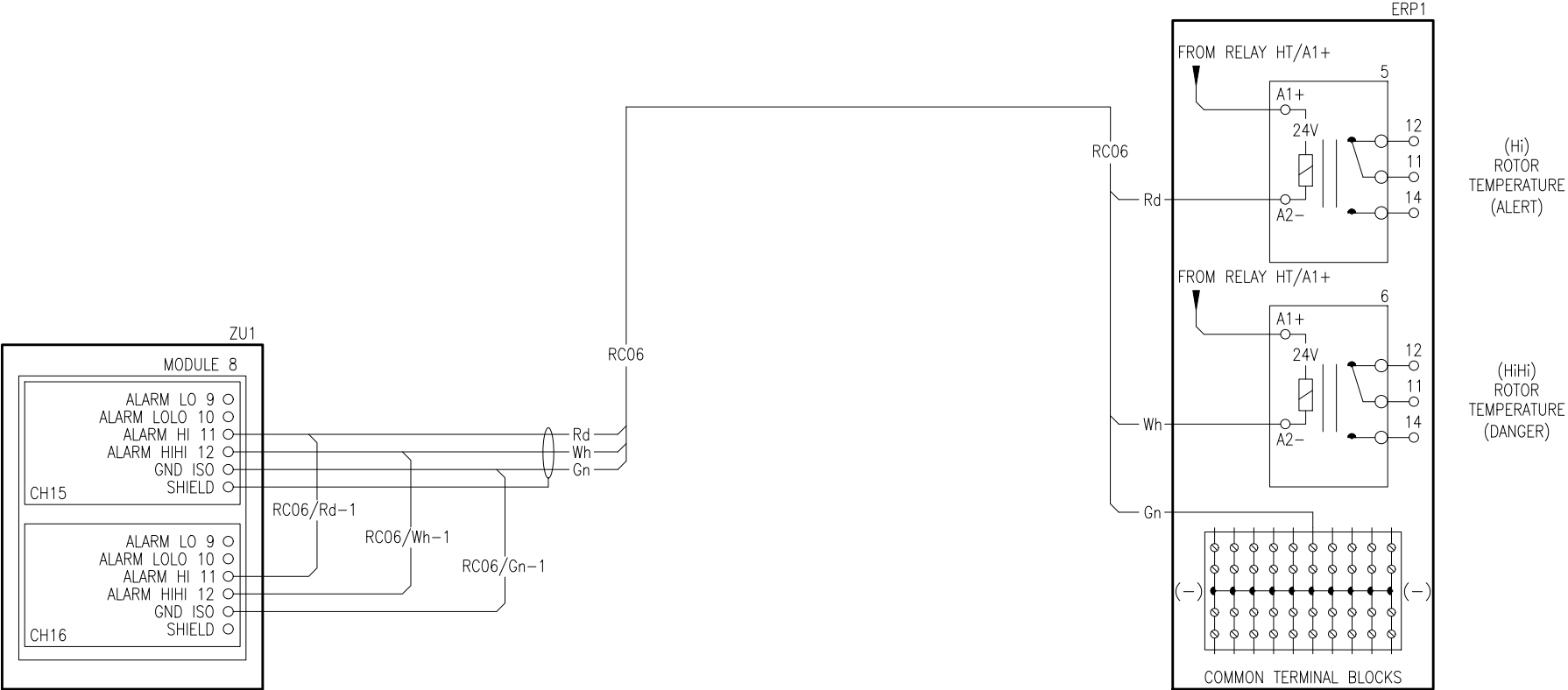
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Section: E ZOOM MONITORING CABINET INTERNAL COMPONENTS & WIRING

Product number:
VSM-CAB-MINE1-100

Drawing number:
VSM-DWG-MINE1-100

Sheet: E23
Rev. : 1

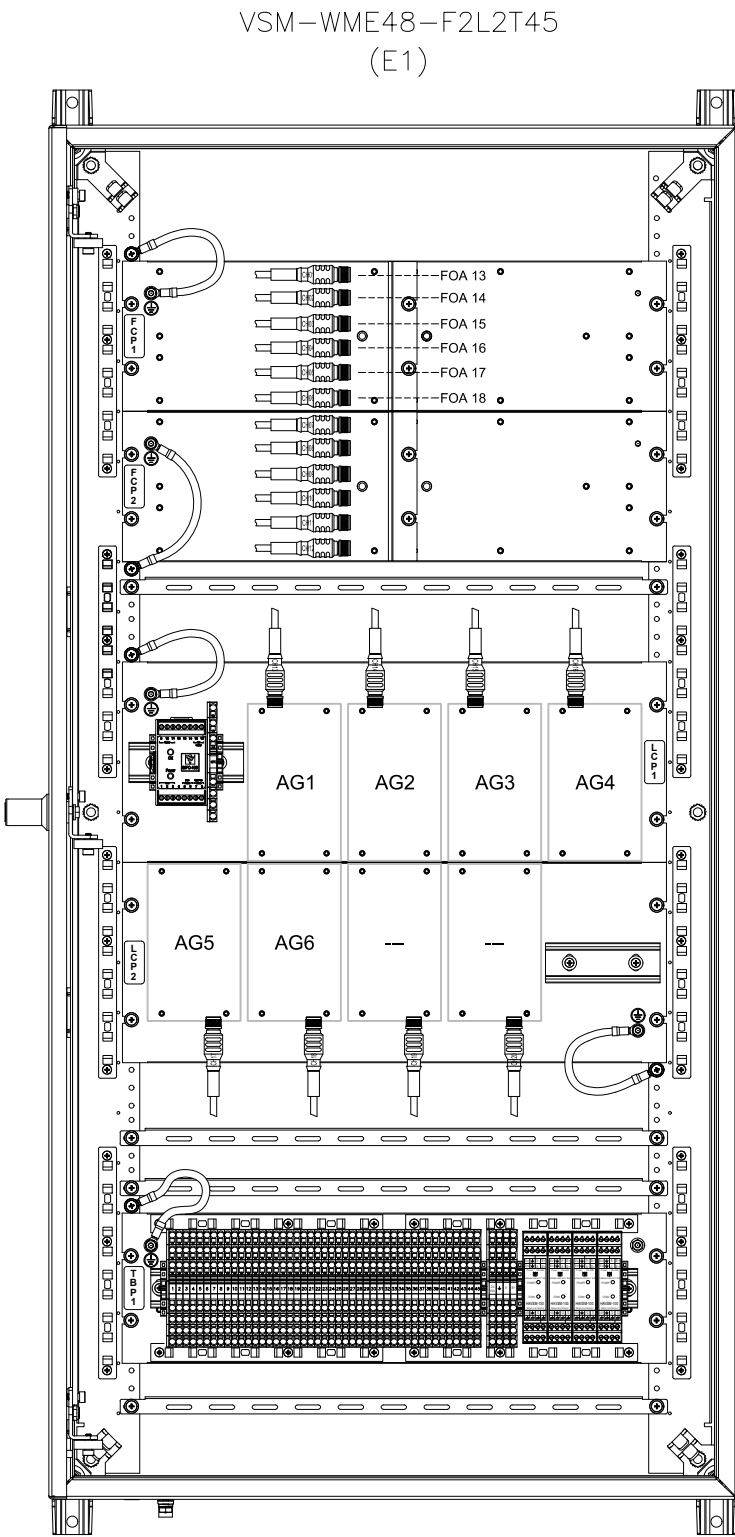
Title: ZOOM MONITORING SYSTEM FOR PROJECT: YOUR MINING SITE
ELECT. SCHEMATIC ROTOR TEMPERATURE ALARMS





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D



JUNCTION BOX CONNECTIONS DETAILS						
WALLMOUNT ENCLOSURE	VSM TAG	SIZE (HxWxD) IN.	INPUT SENSOR	CABLE INPUT TAG	TERMINAL BLOCK #	CABLE OUTPUT TAG
VSM-WME48-F2L2T45	E1	48x24x8	FOA13	FOA13/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
MFP1			MFP1/E1-MFC		MFC	E1-MFC/E6-27
SCT1-45	SCT1-45/E1-H1	Vdc		E1-H1PWR/E6-29		
						
		A-		E1-H1RS/E6-30		
		B+				
SCT1-46-90	SCT46-90/E1-H2	Vdc		E1-H1PWR/E6-29		
						
		A-		E1-H1RS/E6-30		
		B+				
SCT1-181-225	SCT181-225/E1-H5	Vdc		E1-H1PWR/E6-29		
						
		A-		E1-H1RS/E6-30		
		B+				
SCT1-226-270	SCT226-270/E1-H6	Vdc		E1-H1PWR/E6-29		
						
		A-		E1-H1RS/E6-30		
		B+				

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Section: F JUNCTION BOXES (WME) INTERNAL COMPONENTS & WIRING
Product number: VSM-CAB-MINE1-100
Drawing number: VSM-DWG-MINE1-100
Sheet: F1 Rev. : 1

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

A

B

C

D

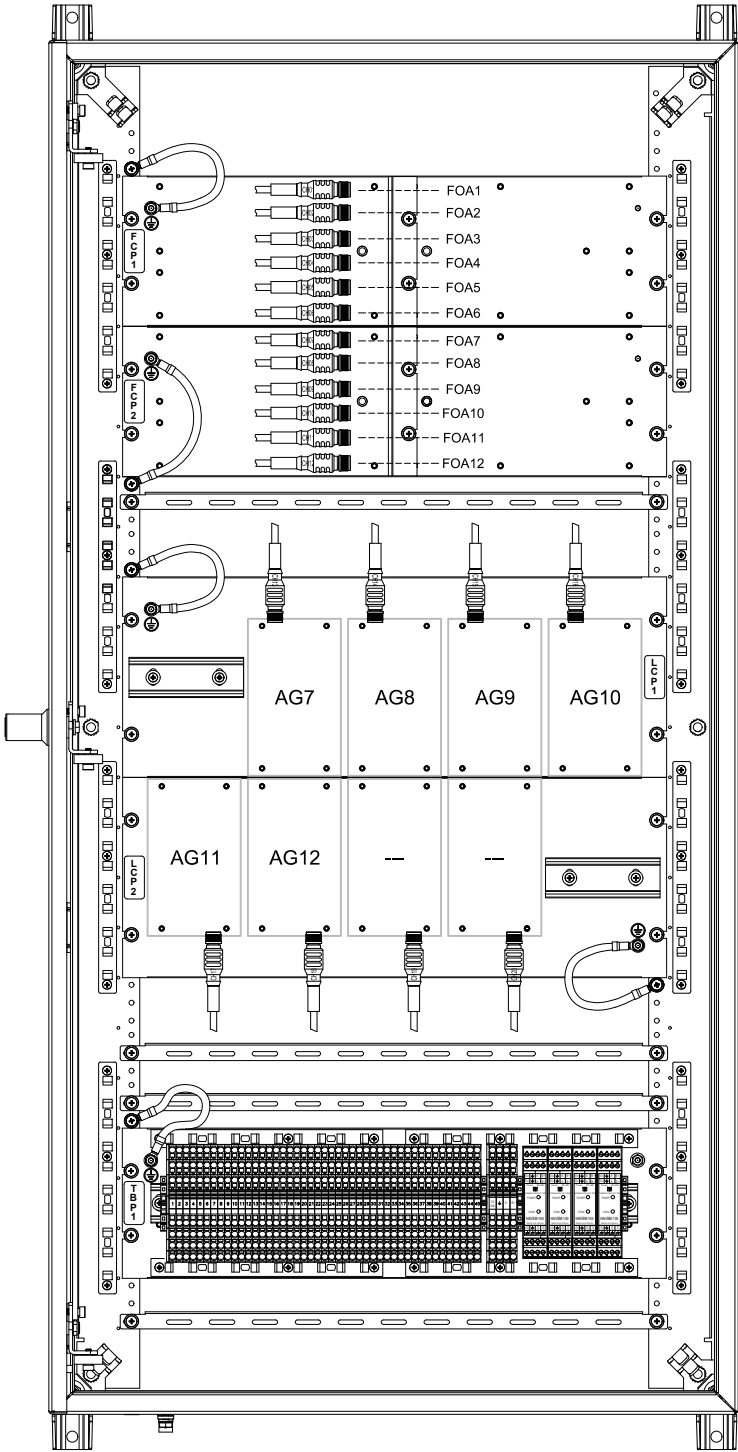
A

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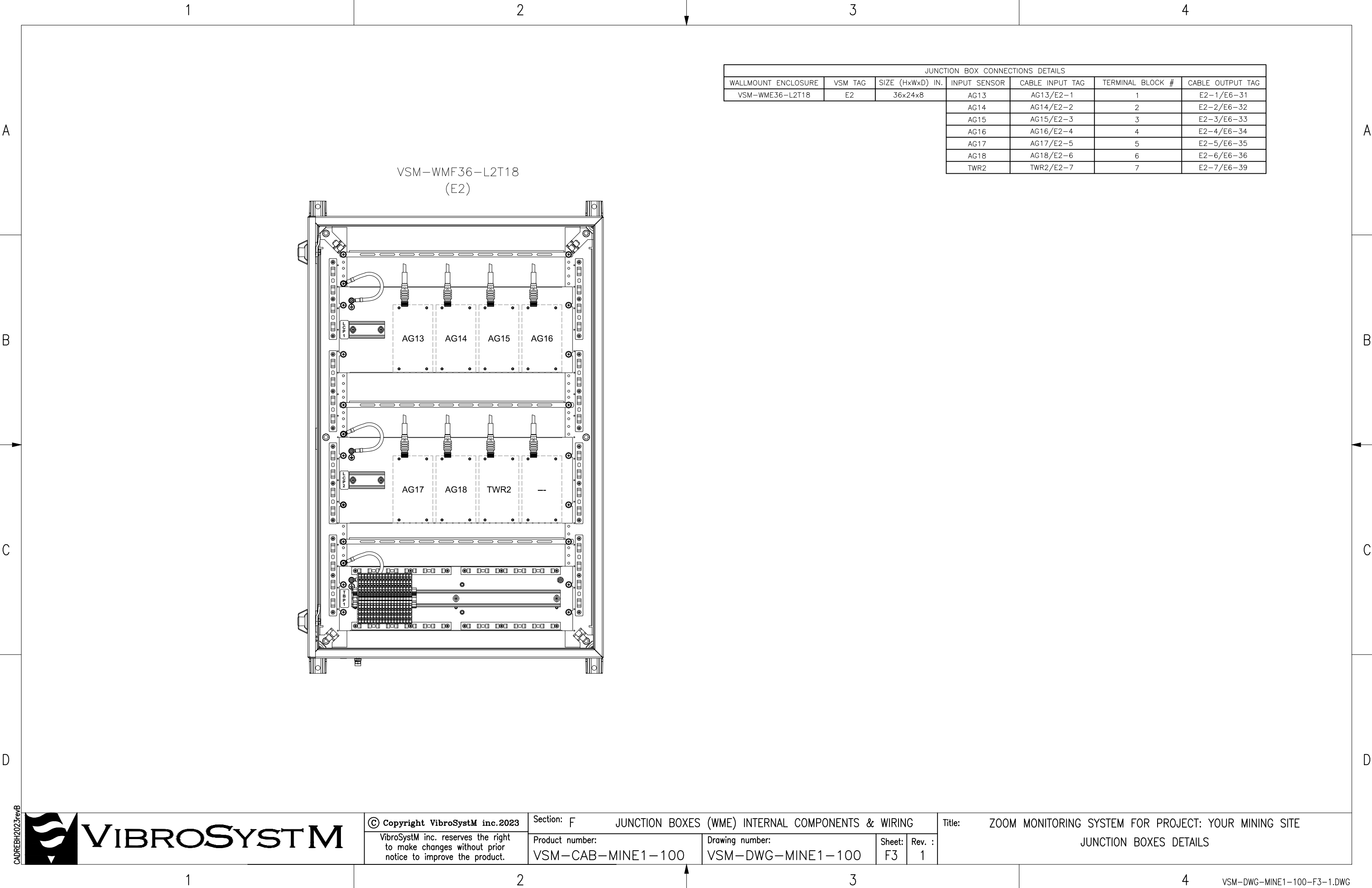
VSM-WME48-F2L2T45
(E4)



JUNCTION BOX CONNECTIONS DETAILS						
WALLMOUNT ENCLOSURE	VSM TAG	SIZE (HxWxD) IN.	INPUT SENSOR	CABLE INPUT TAG	TERMINAL BLOCK #	CABLE OUTPUT TAG
VSM-WME48-F2L2T45	E4	48x24x8	FOA1	FOA1/E4-1	1	E4-1/E7-8
			FOA2	FOA2/E4-2	2	E4-2/E7-9
			FOA3	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	FOA12/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

SCT91-135	SCT91-135/E4-H3	Vdc	E4-H3PWR/E7-29
		A-	E4-H3RS/E7-30
		B+	
SCT136-180	SCT136-180/E4-H4	Vdc	E4-H3PWR/E7-29
		A-	E4-H3RS/E7-30
		B+	
SCT271-315	SCT271-315/E4-H7	Vdc	E4-H3PWR/E7-29
		A-	E4-H3RS/E7-30
		B+	
SCT316-360	SCT316-360/E4-H8	Vdc	E4-H3PWR/E7-29
		A-	E4-H3RS/E7-30
		B+	





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Section: F

JUNCTION BOXES (WME) INTERNAL COMPONENTS & WIRING

Product number:

VSM-CAB-MINE1-100

Drawing number:

VSM-DWG-MINE1-100

Sheet:

F3

Rev. :

1

Title:

ZOOM MONITORING SYSTEM FOR PROJECT: YOUR MINING SITE

JUNCTION BOXES DETAILS

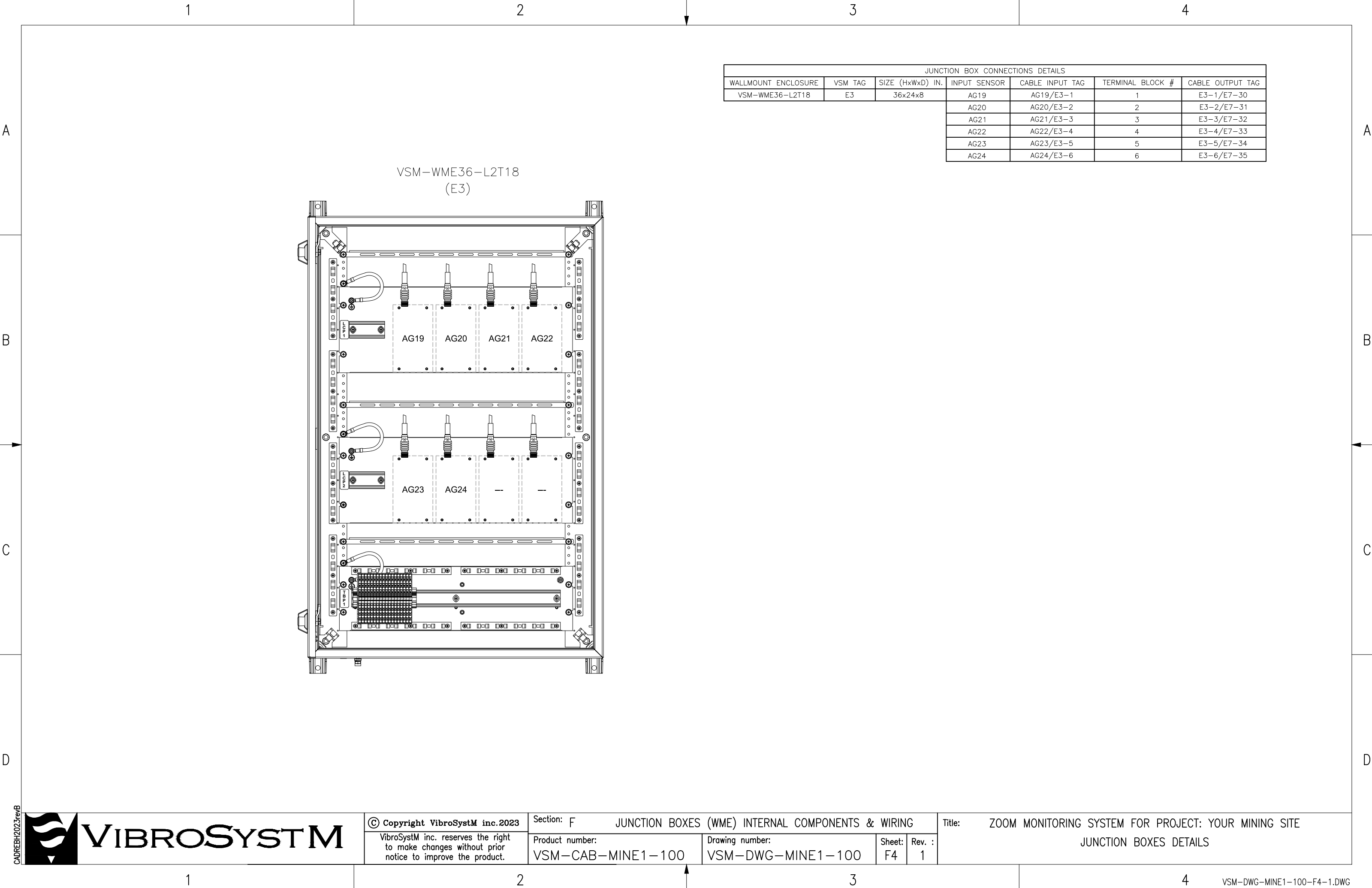
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VSM-DWG-MINE1-100-F3-1.DWG



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Section: F

JUNCTION BOXES (WME) INTERNAL COMPONENTS & WIRING

Product number:

VSM-CAB-MINE1-100

Drawing number:

VSM-DWG-MINE1-100

Sheet:

F4

Rev. :

1

Title:

ZOOM MONITORING SYSTEM FOR PROJECT: YOUR MINING SITE

JUNCTION BOXES DETAILS

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4

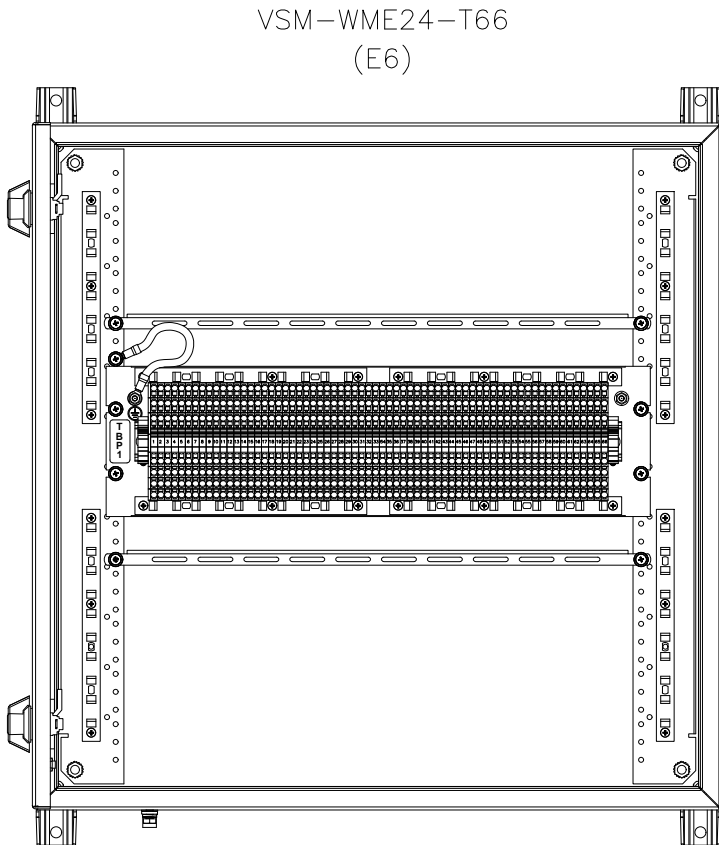
VSM-DWG-MINE1-100-F4-1.DWG

A

B

C

D



JUNCTION BOX CONNECTIONS DETAILS						
WALLMOUNT ENCLOSURE	VSM TAG	SIZE (HxWxD) IN.	INPUT SENSOR	CABLE INPUT TAG	TERMINAL BLOCK #	CABLE OUTPUT TAG
VSM-WME24-T66	E6	24x24x8	AG1	E1-13/E6-1	1	E6-1/C1-ZU1S01
			AG2	E1-14/E6-2	2	E6-2/C1-ZU1S02
			AG3	E1-15/E6-3	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
			FOA13	E1-1/E6-7	7	E6-7/C1-ZU1S09
			FOA14	E1-2/E6-8	8	E6-8/C1-ZU1S10
			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
			SCV5	SCV5/E6-19	19	E6-19/C1-ZU3S09
			SCV6	SCV6/E6-20	20	E6-20/C1-ZU3S10
			SCF1	SCF1/E6-24	24	E6-24/C1-ZU4S09
			SCF2	SCF2/E6-25	25	E6-25/C1-ZU4S10
			SPV1	SPV1/E6-26	26	E6-26/C1-ZU4S11
			MFP1	MFP1/E6-27	27	E6-27/C1-ZU4S15
			TWS-200	E1-H1PWR/E6-29	29	E6-29/C1-PWR
			TWS-200	E1-H1RS/E6-30	30	E6-30/C1-ZU1RSx
			AG13	E2-1/E6-31	31	E6-31/C1-ZU3S01
			AG14	E2-2/E6-32	32	E6-32/C1-ZU3S02
			AG15	E2-3/E6-33	33	E6-33/C1-ZU3S03
			AG16	E2-4/E6-34	34	E6-34/C1-ZU3S04
			AG17	E2-5/E6-35	35	E6-35/C1-ZU4S01
			AG18	E2-6/E6-36	36	E6-36/C1-ZU4S02
			TWR1	E1-7/E6-38	38	E6-38/C1-ZU1S15
			TWR2	E2-7/E6-39	39	E6-39/C1-ZU1S16
			SYN1	SYN1/E6-65	65	E6-65/C1-SYN1
			SYN2	SYN2/E6-66	66	E6-66/C1-SYN2

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Section: F JUNCTION BOXES (WME) INTERNAL COMPONENTS & WIRING

Product number:

VSM-CAB-MINE1-100

Drawing number:

VSM-DWG-MINE1-100

Sheet:

F5

Rev. :

1

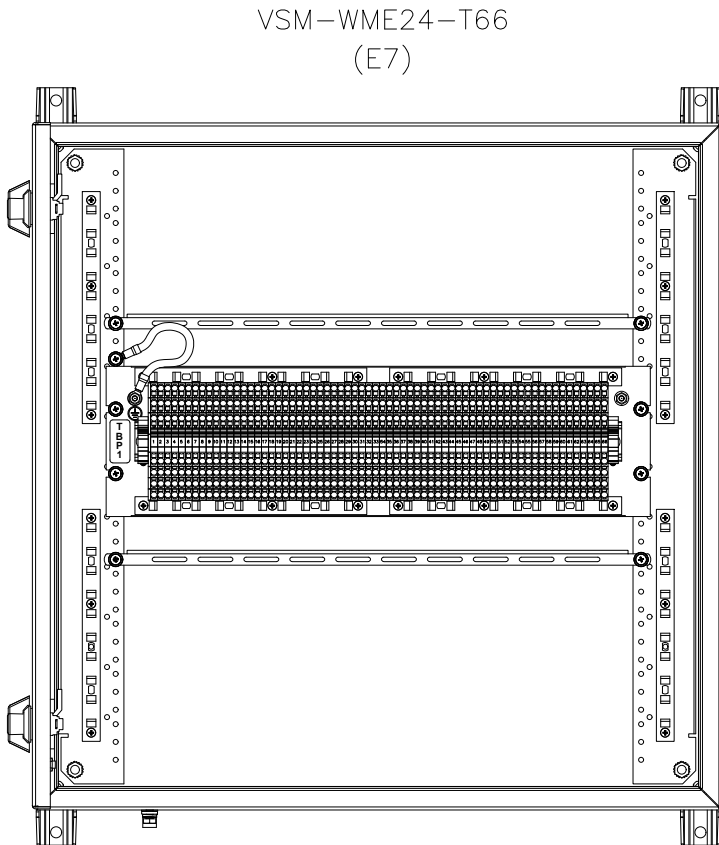
Title: ZOOM MONITORING SYSTEM FOR PROJECT: YOUR MINING SITE
JUNCTION BOXES DETAILS

A

B

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D



JUNCTION BOX CONNECTIONS DETAILS						
WALLMOUNT ENCLOSURE	VSM TAG	SIZE (HxWxD) IN.	INPUT SENSOR	CABLE INPUT TAG	TERMINAL BLOCK #	CABLE OUTPUT TAG
VSM-WME24-T66	E7	24x24x8	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
			AG10	E4-16/E7-4	4	E7-4/C1-ZU2S02
			AG11	E4-17/E7-5	5	E7-5/C1-ZU2S03
			AG12	E4-18/E7-6	6	E7-6/C1-ZU2S04
			FOA1	E4-1/E7-8	8	E7-8/C1-ZU2S05
			FOA2	E4-2/E7-9	9	E7-9/C1-ZU2S06
			FOA3	E4-3/E7-10	10	E7-10/C1-ZU2S07
			FOA4	E4-4/E7-11	11	E7-11/C1-ZU2S08
			FOA5	E4-5/E7-12	12	E7-12/C1-ZU2S09
			FOA6	E4-6/E7-13	13	E7-13/C1-ZU2S10
			FOA7	E4-7/E7-14	14	E7-14/C1-ZU2S11
			FOA8	E4-8/E7-15	15	E7-15/C1-ZU2S12
			FOA9	E4-9/E7-16	16	E7-16/C1-ZU2S13
			FOA10	E4-10/E7-17	17	E7-17/C1-ZU2S14
			FOA11	E4-11/E7-18	18	E7-18/C1-ZU2S15
			FOA12	E4-12/E7-19	19	E7-19/C1-ZU2S16
			SCV7	SCV7/E7-20	20	E7-20/C1-ZU3S11
			SCV8	SCV8/E7-21	21	E7-21/C1-ZU3S12
			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-ZU4S13
			SPV2	SPV2/E7-28	28	E7-28/C1-ZU4S14
			TWS-200	E4-H3PWR/E7-29	29	E7-29/C1-PWR
			TWS-200	E4-H3RS/E7-30	30	E7-30/C1-ZU2RSx
			AG19	E3-1/E7-31	31	E7-31/C1-ZU4S03
			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
			AG24	E3-6/E7-36	36	E7-36/C1-ZU4S08

A

B

C

D

CADREBH2023revB



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Section: F	JUNCTION BOXES (WME) INTERNAL COMPONENTS & WIRING			
Product number:	VSM-CAB-MINE1-100	Drawing number:	VSM-DWG-MINE1-100	Sheet: F6
				Rev. : 1

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