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Powering Business Worldwide


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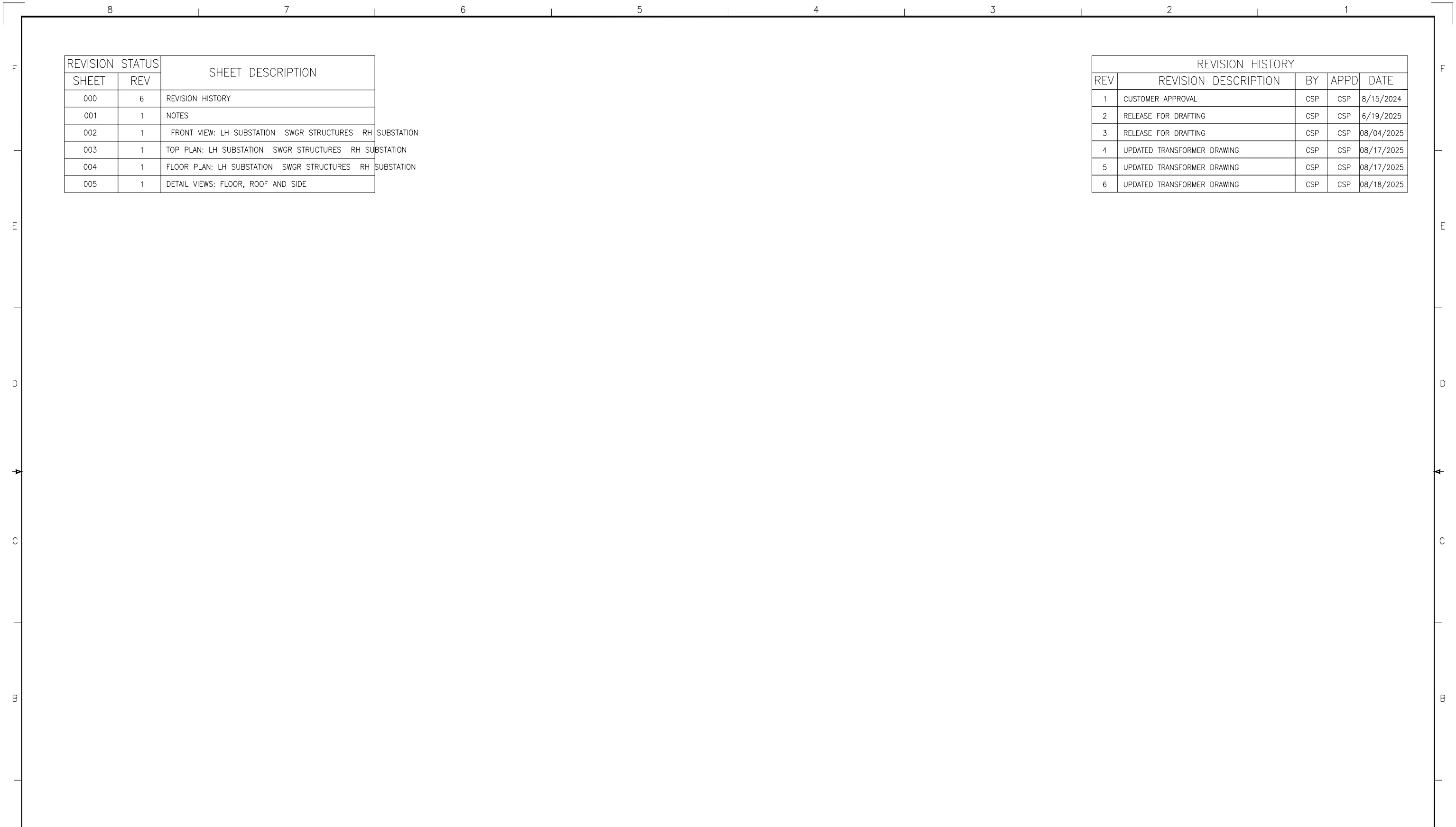
Powering Business Worldwide

Master Document Index

Low Voltage Assemblies Magnum PXR UL Swgr

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User Benjamin Bryson	Date 8/27/2025 9:05:46 AM	THE INFORMATION ON THIS DOCUMENT WAS CREATED BY EATON CORPORATION. IT WAS DISCLOSED IN CONFIDENCE AND IS ONLY TO BE USED FOR THE PURPOSE IN WHICH IT WAS SUPPLIED.	 Powering Business Worldwide
		AV730327X4K5	
		480V SWGR	Construction Drawings
REVISION	DWG SIZE	G.O.	DWG
4	A	LOM0036991-002	L00GLBH-M.DOC
			SHEET
			1 of 1



REVISION STATUS		SHEET DESCRIPTION
SHEET	REV	
000	6	REVISION HISTORY
001	1	NOTES
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REVISION HISTORY				
REV	REVISION DESCRIPTION	BY	APPD	DATE
1	CUSTOMER APPROVAL	CSP	CSP	8/15/2024
2	RELEASE FOR DRAFTING	CSP	CSP	6/19/2025
3	RELEASE FOR DRAFTING	CSP	CSP	08/04/2025
4	UPDATED TRANSFORMER DRAWING	CSP	CSP	08/17/2025
5	UPDATED TRANSFORMER DRAWING	CSP	CSP	08/17/2025
6	UPDATED TRANSFORMER DRAWING	CSP	CSP	08/18/2025

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	APPD CHETAN PATIL	DATE 06/19/2025	TITLE NDS 5 480v Switchgear Replacement HU 2024-27 480V SWGR		
CAGE CODE 68592	REVISION 6	PRODUCT CODE OL	S.O. LOOGLBH	TYPE MAGNUM PXR SWITCHGEAR	OUTLINES
		G.O. LOM0036991-002	DWG LOOGLBH-0	SHEET 000	

**** GENERAL ORDER INFORMATION ****

***** STANDARD NOTES *****

- PRODUCTION TEST REPORTS PROVIDED.
- ALL WIDTHS ARE IN[MM] UNLESS INDICATED OTHERWISE.
- ALL WEIGHTS ARE LB[KG] UNLESS INDICATED OTHERWISE.
- MINIMUM AISLE SPACE REQUIRED FOR HANDLING BREAKERS: 36" [914].
- LIFTING ANGLES ARE NOT REMOVABLE. ALLOW 96" [2438] MIN FOR SWITCHGEAR HEIGHT WHEN CONSIDERING PLACEMENT OBSTRUCTIONS.
- SEE FRONT LAYOUT VIEW DRAWING FOR DOOR MOUNTED DEVICES
- FIELD POWER CABLE CONNECTIONS ---
- REAR ACCESS REQUIRED FOR FIELD POWER CABLE CONNECTIONS.

***** SYSTEM DETAILS *****

- VOLTAGE - PRIMARY 2400VAC DELTA / SEC 480/277 WYE VAC
- PHASE - 3
- FREQUENCY - 60HZ
- INCOMING WIRES - 4W AND GROUND
- CERTIFICATION - UL1558
- INTERRUPTING RATING - 65KA

***** BUS DETAILS *****

- ALL BUS MATERIAL - COPPER
- DENSITY RATING - STANDARD
- PHASE BUS - 3200 AMPS
- NEUTRAL BUS RATED - 100% OF PHASE BUS
- NEUTRAL BUS AMPS - 3200
- BUS BRACING - 100,000 R.M.S. AMPS
- BUS PLATING - SILVER
- GROUND BUS SIZE - 0.25X2" (STD)
- ALTITUDE RATING - NONE
- RATING BASIS - 65 DEGREE C RISE OVER 40 DEGREES AMBIENT
- BELLEVILLE SPRING WASHERS USED ON ALL BUS CONNECTIONS.
- CABLE LUGS ---
- PHASE CABLE LUG TYPE - STANDARD MECHANICAL (CU & AL)
- GROUND LUG - ONE #6 TO 350 KCMIL MECHANICAL SET-SCREW LUG PROVIDED AT EACH END OF GROUND BUS

***** ENCLOSURE DETAILS *****

- EQUIPMENT TYPE - NEMA1 INDOOR CONSTRUCTION
- THIS SWITCHGEAR ASSEMBLY IS NOT LABELED FOR USE AS SERVICE EQUIPMENT
- TOP-OF-GEAR BREAKER HOIST SUPPLIED. ALLOW 99" [2515] CLEARANCE.
- BREAKER DOOR HARDWARE - QUARTER-TURN KNOBS
- INSTRUMENT DOOR HARDWARE - QUARTER-TURN KNOBS
- CABLE ACCESS CLOSURE - COVERS
- CABLE ACCESS HARDWARE - CAPTIVE SCREWS
- EXTERIOR FINISH - ANSI-61 LIGHT GREY
- INTERIOR FINISH - ANSI-61 LIGHT GREY / WHITE INST. PANELS : NA

***** WIRING AND CONTROL DETAILS *****

- WIRE TYPE - SIS
- USE #14GA WIRE ON ALL NON-CT CIRCUIT CONNECTIONS WHERE POSSIBLE UNLESS MARKED OTHERWISE ON WIRING DIAGRAM
- WIRE COLOR FOR CONTROL WIRING IS GRAY
- USE #10GA WIRE ON ALL CT CIRCUIT CONNECTIONS WHERE POSSIBLE UNLESS MARKED OTHERWISE ON WIRING DIAGRAM
- WIRE COLOR FOR CT WIRING IS GRAY
- WIRE COLOR FOR GROUND WIRES IS GREEN
- WIRE MARKING - MACHINE PRINTED ON WIRE (STD)
- WIRE LABELING CONVENTION - ORIGIN/WIRE NAME/DESTINATION
- DEVICE CONTROL WIRE TERMINALS SUPPLIED AS SCREW-CLAMPED TERMINALS TO THE EXTENT ALLOWED BY THE CONTROL DEVICE TERMINALS
- CT CIRCUIT WIRE TERMINALS SUPPLIED AS RING TONGUE TERMINALS TO THE EXTENT ALLOWED BY THE CT CIRCUIT DEVICE TERMINALS
- ADHESIVE LABELS ARE PROVIDED TO IDENTIFY TERMINAL BLOCK STRIPS PER WIRING DIAGRAM DESIGNATIONS
- NAMEPLATES/LABELS ---
- BREAKER AND INSTRUMENT DOOR NAMEPLATE COLOR: GRAY BACKGROUND/BLACK LETTERS
- SECONDARY DOOR NAMEPLATE COLOR: PXR DARK GRAY BACKGROUND/WHITE LETTERS
- DOORS: FRONT ONLY
- INTERIOR: ADHESIVE LABELS
- ENGRAVED NAMEPLATES, SECURED WITH STAINLESS-STEEL SCREWS PROVIDED FOR ALL BREAKERS AND DOOR-MOUNTED DEVICES.
- TERMINAL BLOCKS ---
- TYPE - SADDLE-TYPE (STD)
- ALL CUSTOMER TERMINATION POINTS - FRONT OF GEAR
- TERMINAL BLOCK POINTS THAT RECEIVE CT CIRCUIT WIRES TO BE RING TERMINAL TYPE TERMINALS WHERE POSSIBLE
- ALL OTHERS ARE SCREW-CLAMPED WHERE POSSIBLE

***** OPTIONAL NOTES *****

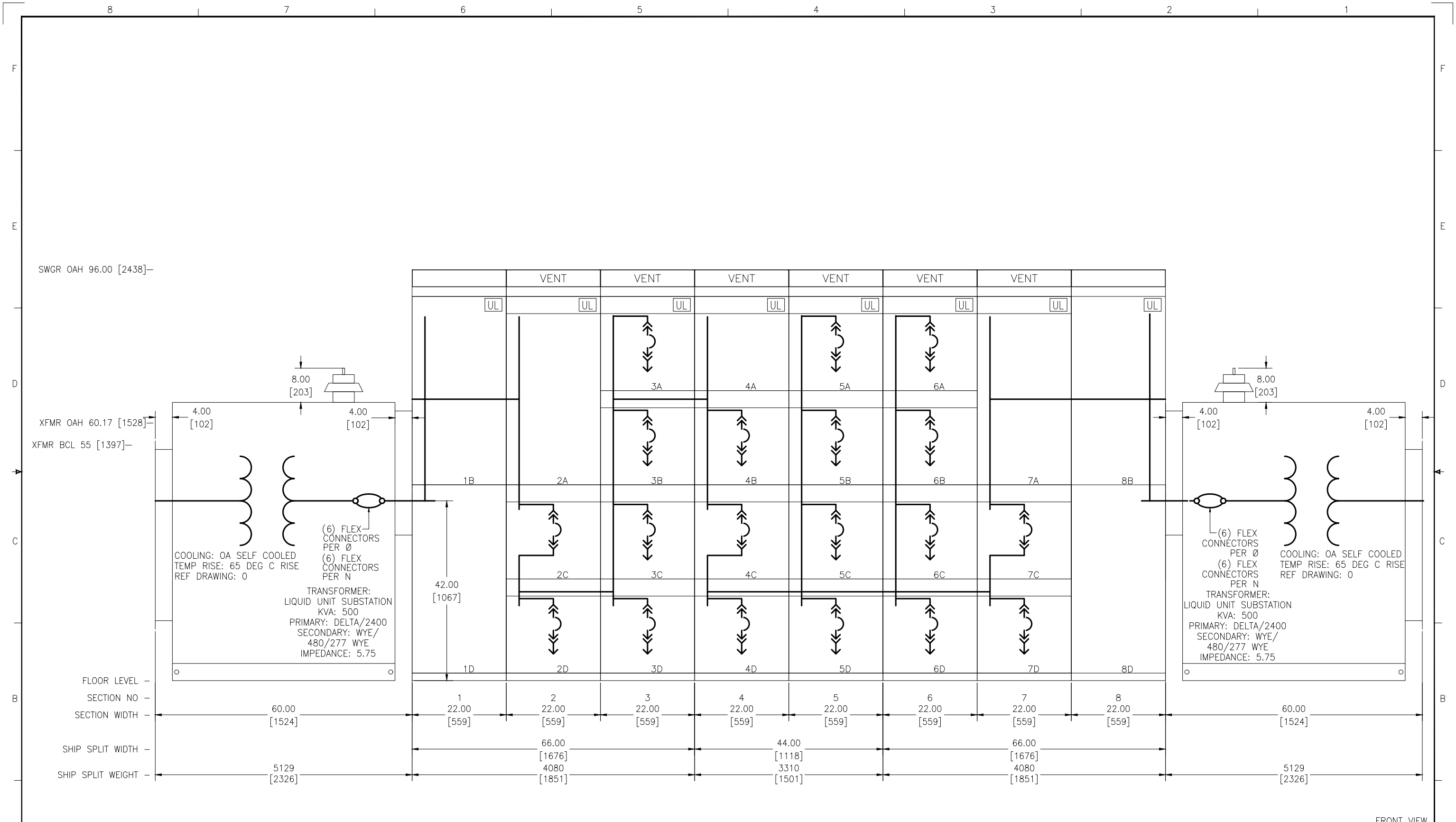
- SHUTTERS OVER PRIMARY STABS PROVIDED FOR ALL BREAKERS AND BREAKER PROVISIONS.
- SHIPPING WEIGHTS INCLUDE BREAKERS. BREAKERS ARE SHIPPED IN THE SWITCHGEAR

***** MISCELLANEOUS NOTES *****

- SHIPPING SPLIT NOTATION: WHEN DETERMINING SHIPPING AND INSTALLATION REQUIREMENTS, CONSIDERATION MUST BE GIVEN FOR UP TO 23" [584] OF CROSS BUS THAT EXTENDS FROM THE SIDE OF A SHIPPING SECTION
- OVERHEAD BREAKER LIFTER PROVIDED.
- BREAKERS MAY BE PADLOCKED IN THE TEST OR DISCONNECT POSITIONS. WHEN PADLOCKED, THE BREAKER IS ALSO LOCKED OPEN.

FRONT VIEW

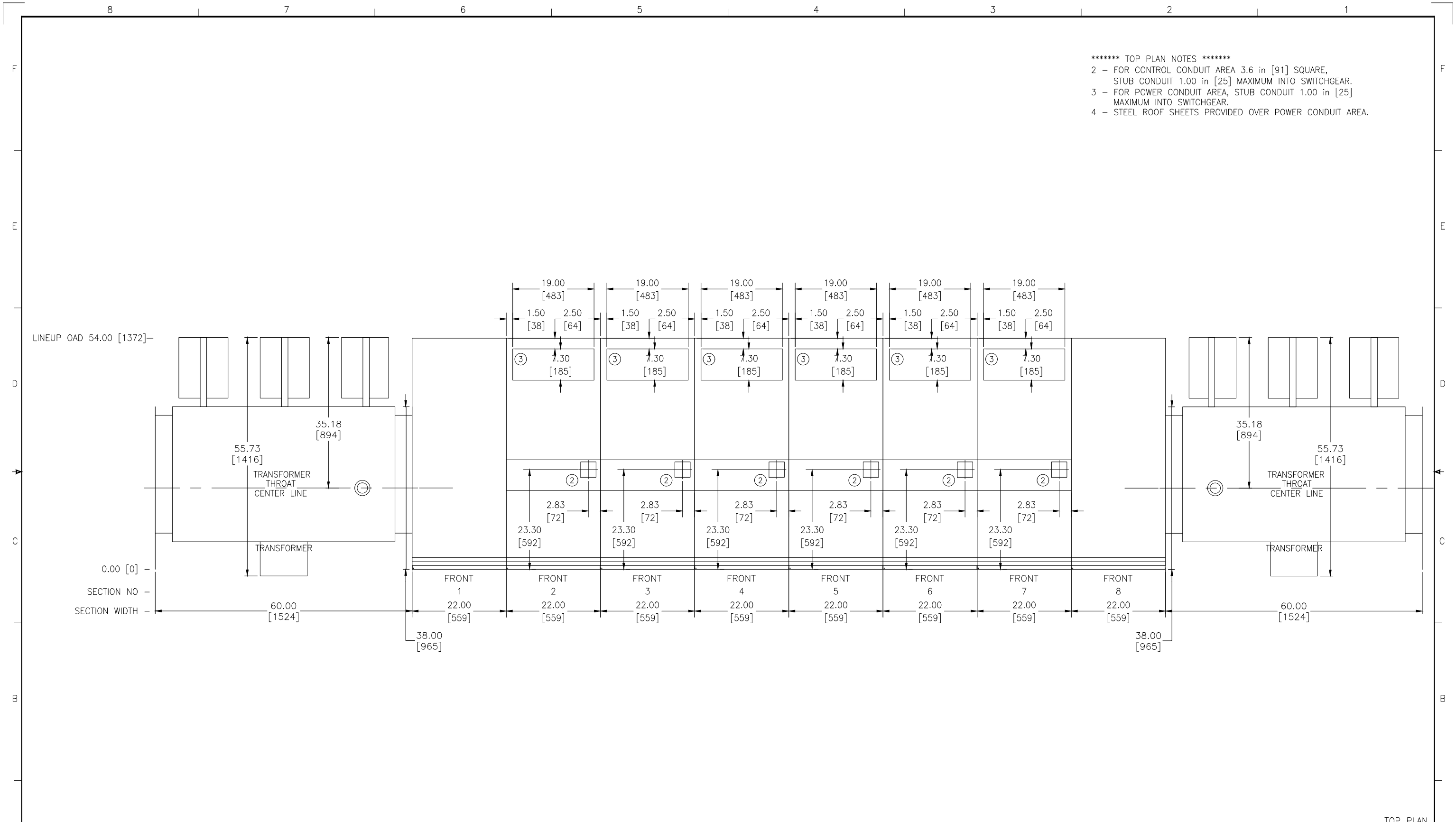
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	CAGE CODE 68592	REVISION 1	G.O. LOM0036991-002	DWG LOOGLBH-0	SHEET 001



FRONT VIEW

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	G.O. LOM0036991-002		TYPE MAGNUM PXR SWITCHGEAR		OUTLINES		DWG LOOGLBH-0		SHEET 002		
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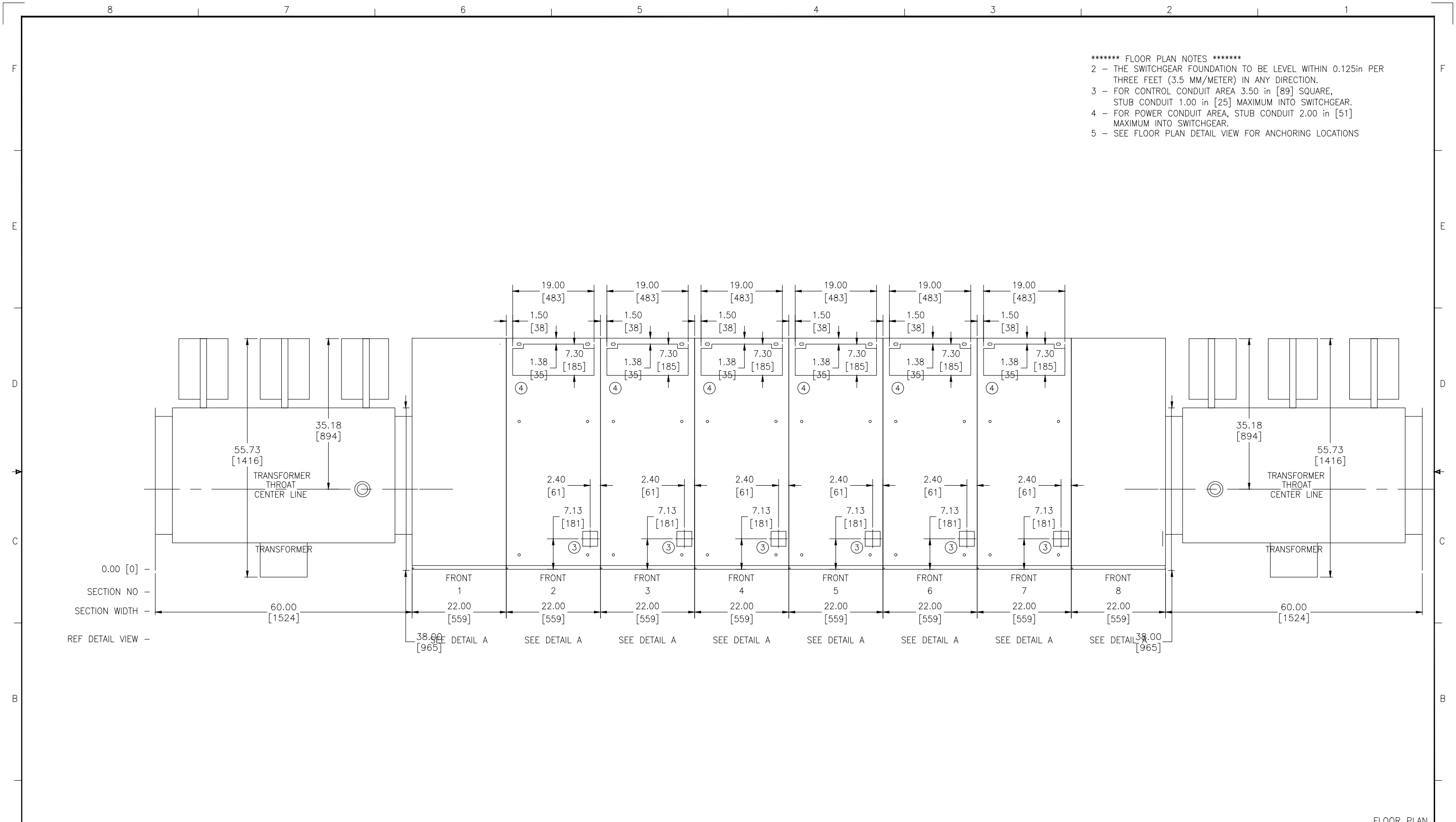
***** TOP PLAN NOTES *****
 2 - FOR CONTROL CONDUIT AREA 3.6 in [91] SQUARE,
 STUB CONDUIT 1.00 in [25] MAXIMUM INTO SWITCHGEAR.
 3 - FOR POWER CONDUIT AREA, STUB CONDUIT 1.00 in [25]
 MAXIMUM INTO SWITCHGEAR.
 4 - STEEL ROOF SHEETS PROVIDED OVER POWER CONDUIT AREA.



TOP PLAN

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	CAGE CODE 68592	REVISION 1	G.O. LOM0036991-002		DWG LOOGLBH-0

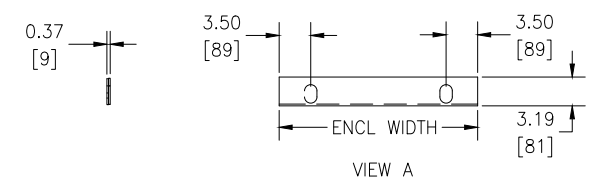
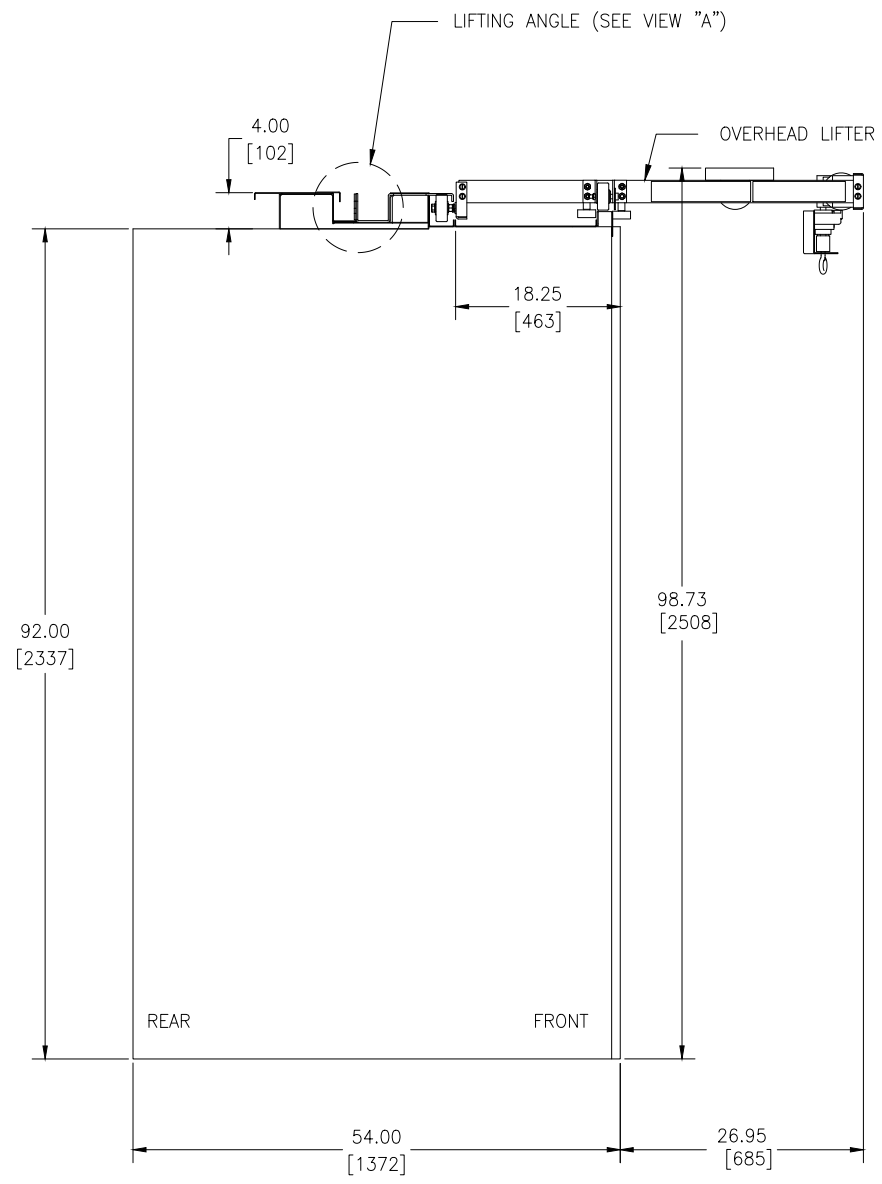
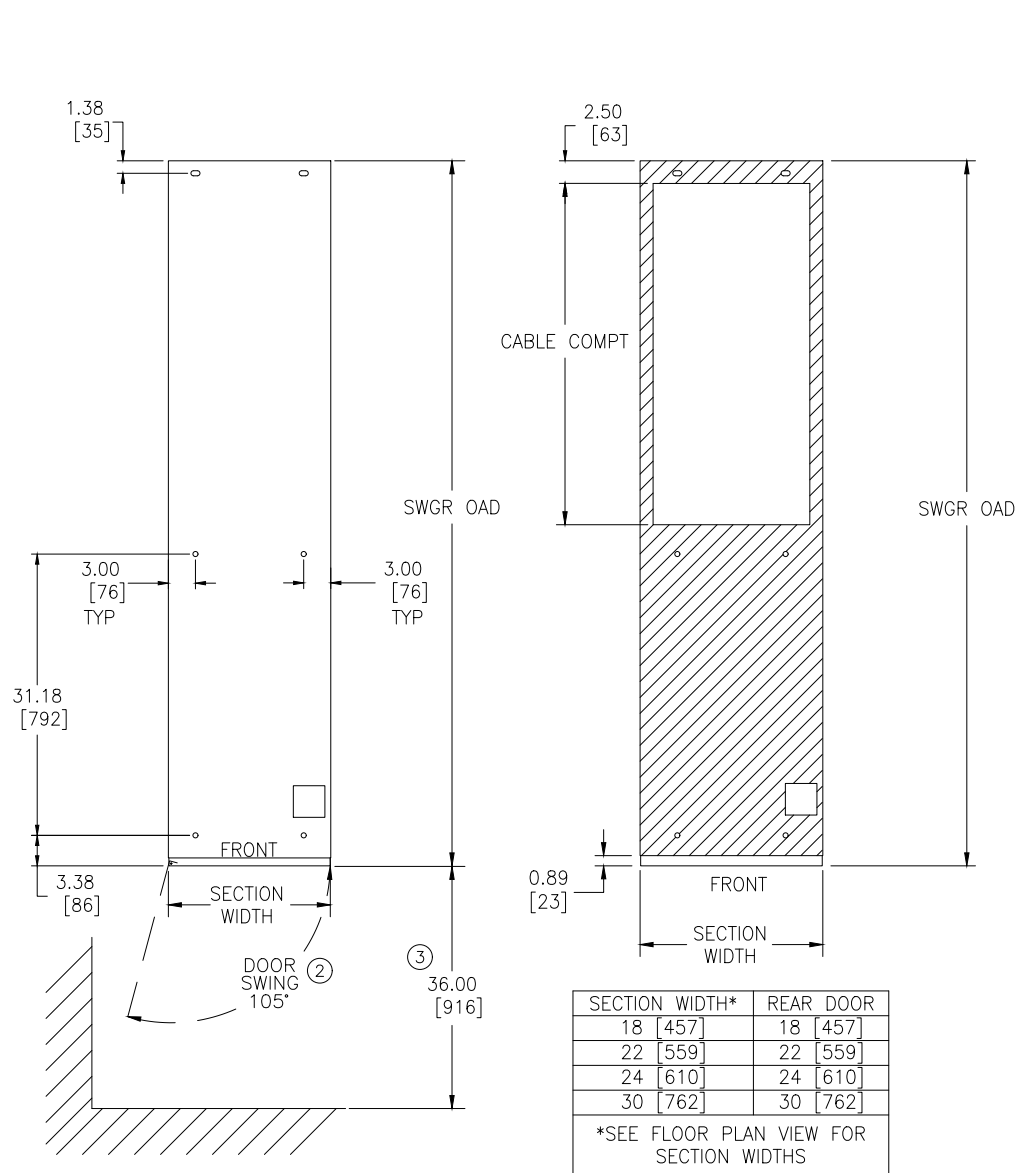
- ***** FLOOR PLAN NOTES *****
- 2 - THE SWITCHGEAR FOUNDATION TO BE LEVEL WITHIN 0.125in PER THREE FEET (3.5 MM/METER) IN ANY DIRECTION.
 - 3 - FOR CONTROL CONDUIT AREA 3.50 in [89] SQUARE, STUB CONDUIT 1.00 in [25] MAXIMUM INTO SWITCHGEAR.
 - 4 - FOR POWER CONDUIT AREA, STUB CONDUIT 2.00 in [51] MAXIMUM INTO SWITCHGEAR.
 - 5 - SEE FLOOR PLAN DETAIL VIEW FOR ANCHORING LOCATIONS



FLOOR PLAN

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	CAGE CODE 68592	REVISION 1	G.O. LOM0036991-002	DWG LOOGLBH-0

- ***** DETAIL VIEWS: NOTES *****
- 1 - SEE FLOOR PLAN VIEW FOR AVAILABLE CONDUIT SPACE
 - 2 - DOOR SWING IS REPRESENTATIVE OF SPACE REQUIRED ONLY. NOT TO BE USED AS AN INDICATION OF HINGED SIDE OF DOOR.
 - 3 - RECOMMENDED FRONT CLEARANCES FOR BREAKER REMOVAL AND INSTALLATION WITH RECOMMENDED DEVICES.
 - 84[2134] IF A PORTABLE BREAKER LIFTER IS USED.
 - IF OTHER DEVICES ARE UTILIZED TO REMOVE OR INSTALL BREAKERS, THESE DEVICES MAY REQUIRE MORE SPACE. IN ADDITION, THE LOCAL AUTHORITY HAVING JURISDICTION MAY REQUIRE A GREATER DISTANCE.

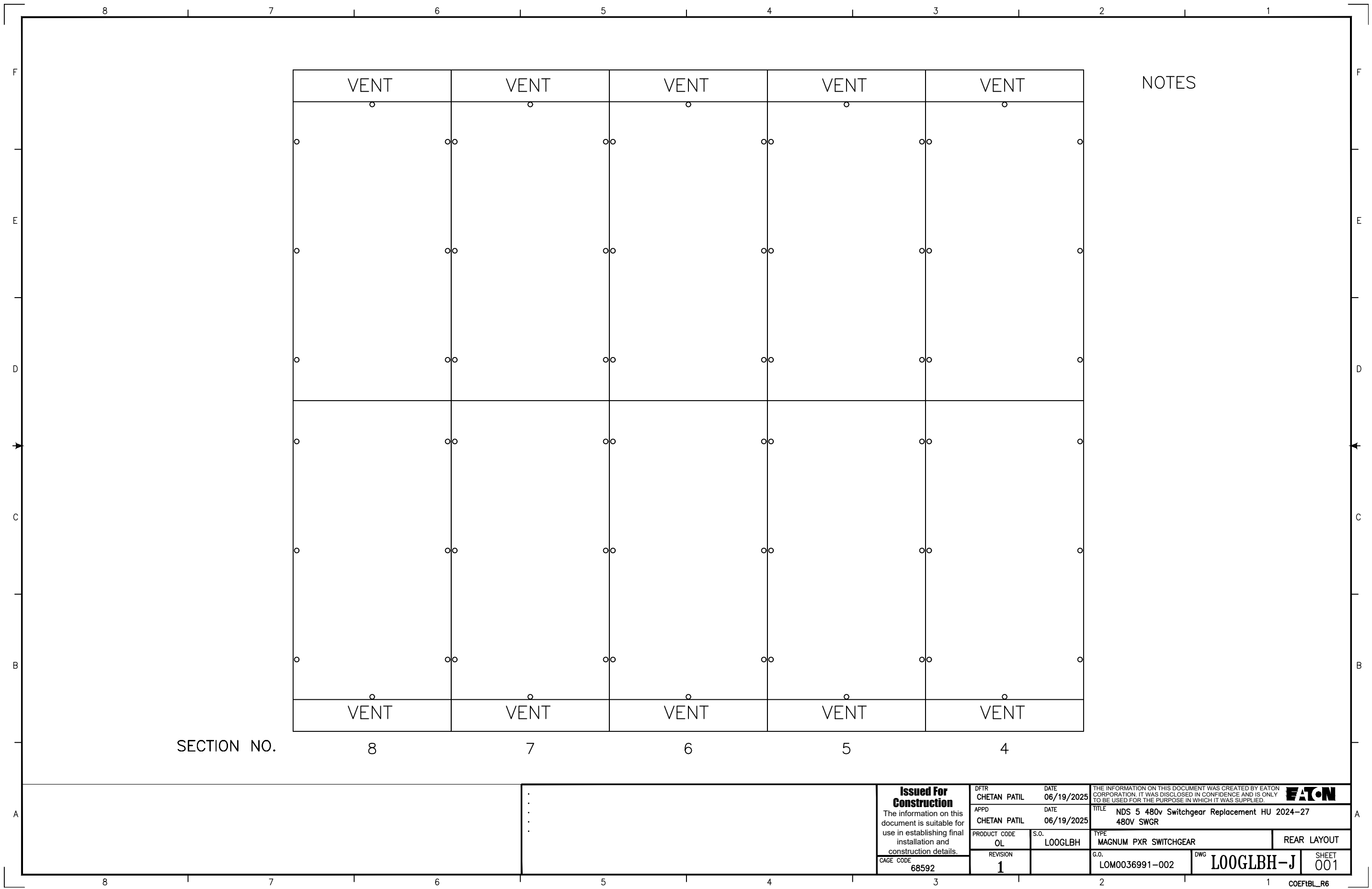


① DETAIL A
SINGLE-WIDE ANCHOR LOCATIONS (TYP)
AND VERTICAL SECTION LOAD BEARING SURFACE
DIMENSIONS IN INCHES [MILLIMETERS]

DETAIL VIEWS

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	CAGE CODE 68592	REVISION 1	G.O. LOM0036991-002	DWG LOOGLBH-0	SHEET 005

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002	1			REAR LAYOUT VIEW; SECTIONS: 3-1	CSP	CSP	06/19/2025									
REVISION SHEET																
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				PRODUCT CODE OL		S.O. LOOGLBH		TYPE MAGNUM PXR SWITCHGEAR				REAR LAYOUT				
				REVISION 2		G.O. LOM0036991-002		DWG LOOGLBH-J		SHEET 000						
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NOTES

SECTION NO.

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DTR CHETAN PATIL DATE 06/19/2025

APPD CHETAN PATIL DATE 06/19/2025

PRODUCT CODE OL S.O. LOOGLBH

REVISION 1

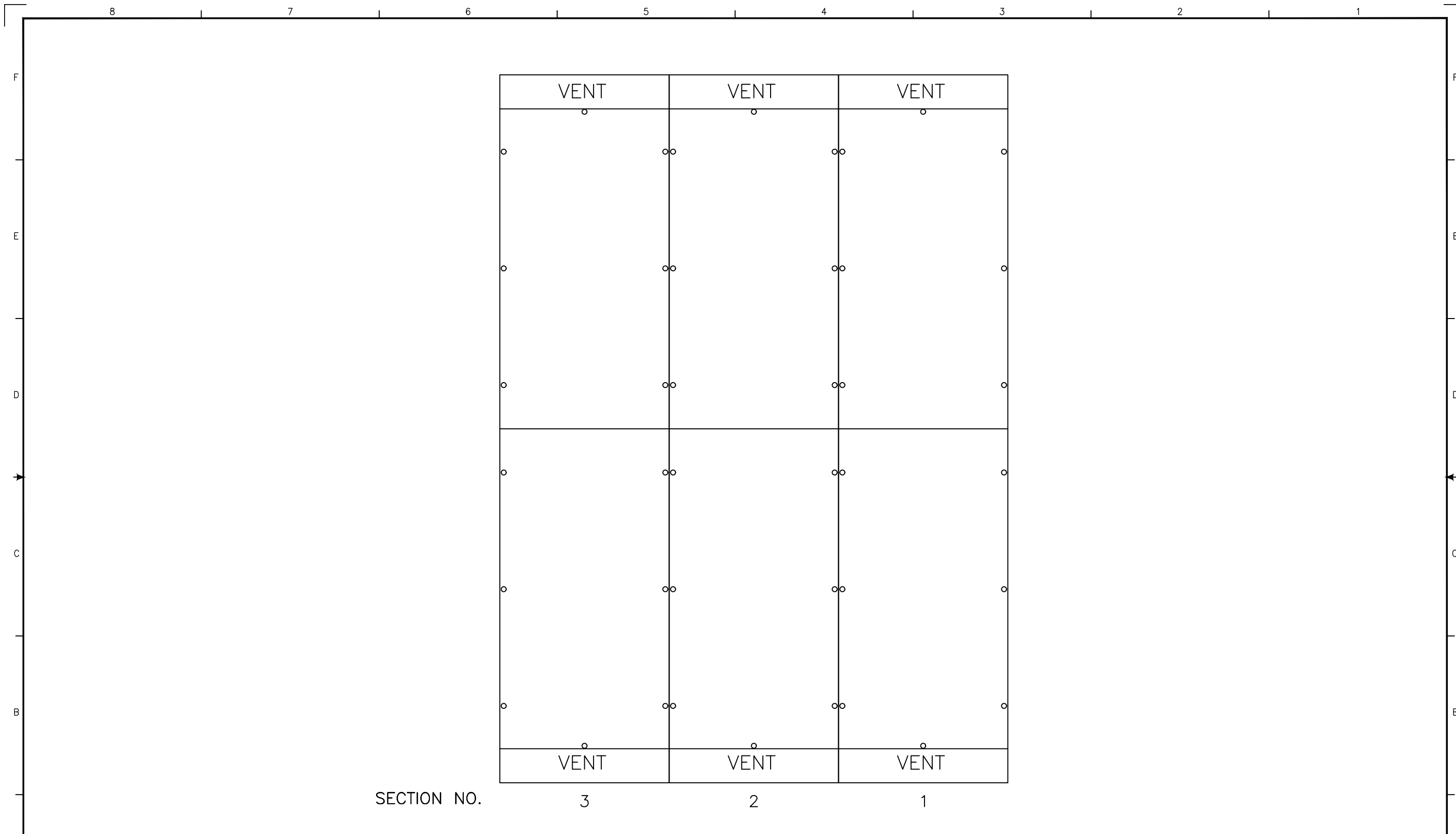
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TITLE NDS 5 480v Switchgear Replacement HU 2024-27 480V SWGR

TYPE MAGNUM PXR SWITCHGEAR REAR LAYOUT

G.O. LOM0036991-002 DWG LOOGLBH-J SHEET 001

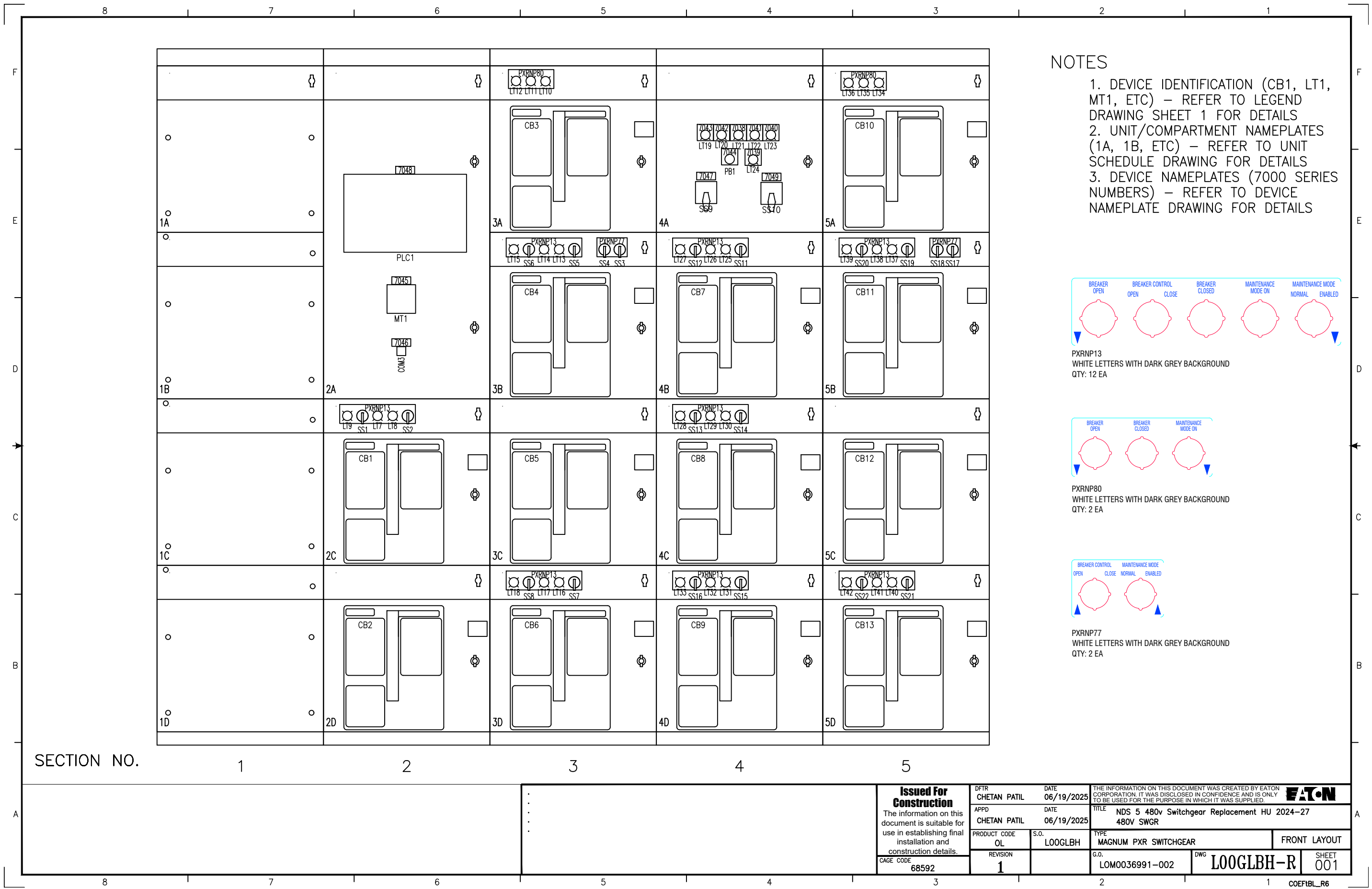


SECTION NO.

3 2 1

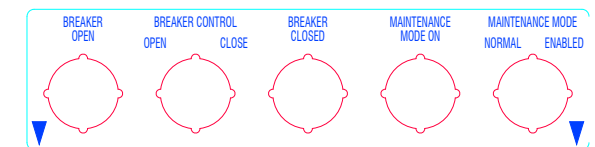
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		CHETAN PATIL	06/19/2025		
	PRODUCT CODE	S.O.	TYPE MAGNUM PXR SWITCHGEAR		
	OL	LOOGLBH	REAR LAYOUT		
	REVISION		G.O.	LOM0036991-002	
	1		DWG	LOOGLBH-J SHEET 002	

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								REVISION 4				G.O. LOM0036991-002		DWG LOOGLBH-R		SHEET 000	
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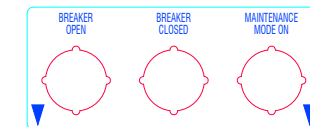


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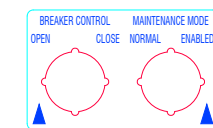
1. DEVICE IDENTIFICATION (CB1, LT1, MT1, ETC) – REFER TO LEGEND DRAWING SHEET 1 FOR DETAILS
2. UNIT/COMPARTMENT NAMEPLATES (1A, 1B, ETC) – REFER TO UNIT SCHEDULE DRAWING FOR DETAILS
3. DEVICE NAMEPLATES (7000 SERIES NUMBERS) – REFER TO DEVICE NAMEPLATE DRAWING FOR DETAILS



PXRNP13
WHITE LETTERS WITH DARK GREY BACKGROUND
QTY: 12 EA



PXRNP80
WHITE LETTERS WITH DARK GREY BACKGROUND
QTY: 2 EA



PXRNP77
WHITE LETTERS WITH DARK GREY BACKGROUND
QTY: 2 EA

SECTION NO.

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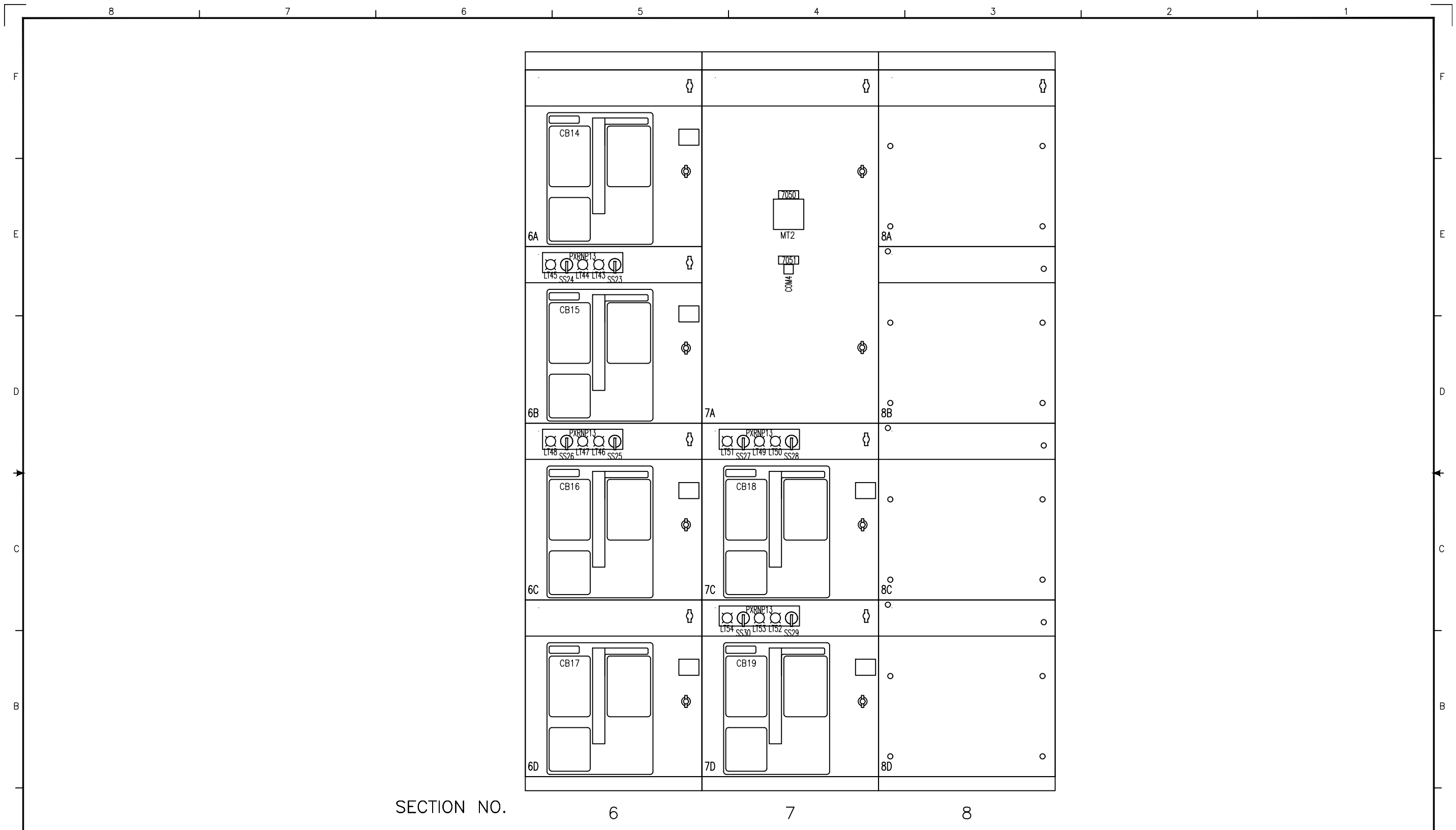
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PRODUCT CODE	S.O.	TYPE	
OL	LOOGLBH	MAGNUM PXR SWITCHGEAR	
REVISION		G.O.	FRONT LAYOUT
1		LOM0036991-002	DWG LOOGLBH-R SHEET 001



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SECTION NO.

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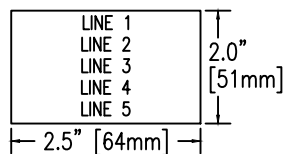
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	<p>REVISION 1</p>	<p>G.O. LOM0036991-002</p>	<p>DWG LOOGLBH-R</p>	<p>SHEET 002</p>	

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REVISION STATUS			SHEET DESCRIPTION												
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001	1	UNIT SCHEDULE; STRUCTURES 1 - 2													
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003	1	UNIT SCHEDULE; STRUCTURES 5 - 6													
004	1	UNIT SCHEDULE; STRUCTURES 7 - 8													
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				REVISION 2				G.O. LOM0036991-002		DWG LOOGLBH-N		SHEET 000			
COEF1BL_R7															

SECTION NUMBER	UNIT NUMBER	UNIT NAMEPLATE	UNIT/DEVICE TYPE	DEVICE SIZE [AMPS]	POLES	INTERRUPTING RATING [kAIC]	LIMITER SIZE [AMPS]	TRIP UNIT (SEE NOTES)	RATED CURRENT (I _n) [AMPS]	TRIP UNIT DISPLAY POWER SUPPLY VOLTAGE	TRIP FUNCTION-GRD FAULT (WIRE)	SPRING RELEASE (CLOSE COIL)	SHUNT TRIP (OPEN COIL)	DEVICE MOTOR OPERATOR VOLTAGE	AUXILIARY SWITCH	UVR/2ND SHUNT TRIP	BREAKER CELL POSITION SWITCH	BELL ALARM (OTS)	BREAKER CODE (SEE NOTES)	KEY INTERLOCK	ACCESSORIES (SEE LEGEND)	TERMINATION INFORMATION			QUANTITY PER	ADDITIONAL ACCESSORIES, FEATURES, AND NOTES	DRAWING REFERENCES AND/OR CATALOG NO.			
																						CONDUIT ENTRY	CONTROL	POWER				TERMINAL TYPE (SEE LEGEND)	TERMINAL SIZE	
1	A		BLANK COMPARTMENT																											
1	B		BLANK COMPARTMENT																											
1	C		BLANK COMPARTMENT																											
1	D		BLANK COMPARTMENT																											
2	A		MAIN METERING																											
2	C	MAIN (52-1) 800AF 800AT	MPS-608	800	3	65		PXR25	800	24VDC	LSIG-4W	110-127 VAC/DC	110-127 VAC/DC	110/125 VAC	12C		4C	2C	5F8C		PCB		T&B							XFMR CLOSE COUPLED
2	D	TURBINE ROOM MCC 800AF 225AT	MPS-608	800	3	65		PXR25	250	24VDC	LSIG-4W							IND.	552H				T&B	T&B	M	PH.#2AWG-600KCMIL N.#2AWG-600KCMIL G.#6AWG-350KCMIL	1 1 1			



NAMEPLATE FEATURES
 COLOR: GRAY/BLACK LETTERS
 SECURED WITH SCREWS
 CHARACTER HEIGHT: 0.1875" [5mm]
 CHARACTERS PER LINE: 18 MAXIMUM
 NOT TO SCALE
 CENTER JUSTIFIED TO EXTENT POSSIBLE
 PER NUMBER OF LINES

1A	2A
1B	
1C	2C
1D	2D

NOTES:
CODE

DRAW-OUT BREAKERS WITH THE SAME CODE ARE FULLY INTERCHANGEABLE. THEY HAVE A COMMON SET OF FEATURES AND ACCESSORIES.

UNIT SCHEDULE LEGEND	
TERMINAL	M = MECHANICAL CU/AL
	C = COMPRESSION, 2 HOLE MTG
	B = BUSWAY
	PRV = NEMA 2 HOLE PROVISIONS ONLY

UNIT SCHEDULE LEGEND	
ACCESSORY	OC = OPERATIONS COUNTER
	LC = LATCH CHECK SWITCH
	CB = MANUAL CLOSE BLOCKING PLATE
	ZI = ZONE INTERLOCKING
	PADLOCK PROVISIONS:
	PCBMCB = METAL FRAME-PLASTIC COVER
	MCB = METAL FRAME-METAL COVER
	PCB = PLASTIC FRAME-PLASTIC COVER
MISC.	UKN = UNKNOWN OR UNSUPPORTED VALUE
	- = MISSING OR NOT APPLICABLE
	IND. = BELL ALARM INDICATOR ONLY

<p>Issued For Construction</p> <p>The information on this document is suitable for use in establishing final installation and construction details.</p> <p>CAGE CODE 68592</p>	DFR CHETAN PATIL DATE 06/19/2025	DATE 06/19/2025	THE INFORMATION ON THIS DOCUMENT WAS CREATED BY EATON CORPORATION. IT WAS DISCLOSED IN CONFIDENCE AND IS ONLY TO BE USED FOR THE PURPOSE IN WHICH IT WAS SUPPLIED.	
	APPD CHETAN PATIL DATE 06/19/2025	TITLE NDS 5 480v Switchgear Replacement HU 2024-27 480V SWGR		
	PRODUCT CODE OL	S.O. LOOGLBH		TYPE MAGNUM PXR SWITCHGEAR
	REVISION 1	G.O. LOM0036991-002		UNIT SCHEDULE LOOGLBH-N

SECTION NUMBER	UNIT NUMBER	UNIT NAMEPLATE	UNIT/DEVICE TYPE	DEVICE SIZE [AMPS]	POLES	INTERRUPTING RATING [kAIC]	LIMITER SIZE [AMPS]	TRIP UNIT (SEE NOTES)	RATED CURRENT (A) [AMPS]	TRIP UNIT DISPLAY POWER SUPPLY VOLTAGE	TRIP FUNCTION-GRD FAULT (WIRE)	SPRING RELEASE (CLOSE COIL)	SHUNT TRIP (OPEN COIL)	DEVICE MOTOR OPERATOR VOLTAGE	AUXILIARY SWITCH	UVR/2ND SHUNT TRIP	BREAKER CELL POSITION SWITCH	BELL ALARM (OTS)	BREAKER CODE (SEE NOTES)	KEY INTERLOCK	ACCESSORIES (SEE LEGEND)	TERMINATION INFORMATION				QUANTITY PER	ADDITIONAL ACCESSORIES, FEATURES, AND NOTES	DRAWING REFERENCES AND/OR CATALOG NO.				
																						CONDUIT ENTRY		TERMINAL TYPE (SEE LEGEND)	TERMINAL SIZE							
																						CONTROL	POWER									
3	A	CONDENSATE PUMP 5-1 800AF 90AT	MPS-608	800	3	65		PXR25	200	24VDC	LSIG-4W	110-127 VAC/DC	110-127 VAC/DC	110/125 VAC	8C		4C	2C	65DG			T&B	T&B	M	PH.#2AWG-600KCMIL N.#2AWG-600KCMIL G.#6AWG-350KCMIL	1 1 1						
3	B	STATION AIR COMPRESSOR 800AF 126AT	MPS-608	800	3	65		PXR25	200	24VDC	LSIG-4W	110-127 VAC/DC	110-127 VAC/DC	110/125 VAC	8C		4C	2C	65DG			T&B	T&B	M	PH.#2AWG-600KCMIL N.#2AWG-600KCMIL G.#6AWG-350KCMIL	1 1 1						
3	C	LIGHTING TRANS. 5A 800AF 225AT	MPS-608	800	3	65		PXR25	250	24VDC	LSIG-4W							IND.	552H			T&B	T&B	M	PH.#2AWG-600KCMIL N.#2AWG-600KCMIL G.#6AWG-350KCMIL	1 1 1						
3	D	TURBINE AUX. OIL PUMP 800AF 80AT	MPS-608	800	3	65		PXR25	200	24VDC	LSIG-4W	110-127 VAC/DC	110-127 VAC/DC	110/125 VAC	8C		4C	2C	65DG			T&B	T&B	M	PH.#2AWG-600KCMIL N.#2AWG-600KCMIL G.#6AWG-350KCMIL	1 1 1						
4	A		TRANSFER SCHEME																												AUTOMATIC TRANSFER OPEN TRANSITION EATON PLC W/ LOCAL TOUCHSCREEN	
4	B	COOLING TOWER EMERG. FEED 800AF 225AT	MPS-608	800	3	65		PXR25	250	24VDC	LSIG-4W	110-127 VAC/DC	110-127 VAC/DC	110/125 VAC	8C		4C	2C	65DH			T&B	T&B	M	PH.#2AWG-600KCMIL N.#2AWG-600KCMIL G.#6AWG-350KCMIL	1 1 1						
4	C	TIE (52-T) 800AF 504AT	MPS-608	800	3	65		PXR25	600	24VDC	LSIG-4W	110-127 VAC/DC	110-127 VAC/DC	110/125 VAC	12C		4C	2C	5TRW	PCB		T&B										
4	D	SPARE 800AF 90AT	MPS-608	800	3	65		PXR25	200	24VDC	LSIG-4W	110-127 VAC/DC	110-127 VAC/DC	110/125 VAC	8C		4C	2C	65DG			T&B	T&B	M	PH.#2AWG-600KCMIL N.#2AWG-600KCMIL G.#6AWG-350KCMIL	1 1 1						

3A	4A
3B	4B
3C	4C
3D	4D

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<p>PRODUCT CODE OL</p> <p>REVISION 1</p>		<p>S.O. LOOGLBH</p>	<p>TITLE NDS 5 480v Switchgear Replacement HU 2024-27 480V SWGR</p>	<p>TYPE MAGNUM PXR SWITCHGEAR</p>
<p>G.O. LOM0036991-002</p>		<p>DWG LOOGLBH-N</p>	<p>UNIT SCHEDULE</p>	<p>SHEET 002</p>


SECTION NUMBER	UNIT NUMBER	UNIT NAMEPLATE	UNIT/DEVICE TYPE	DEVICE SIZE [AMPS]	POLES	INTERRUPTING RATING [kAIC]	LIMITER SIZE [AMPS]	TRIP UNIT (SEE NOTES)	RATED CURRENT (A) [AMPS]	TRIP UNIT DISPLAY POWER SUPPLY VOLTAGE	TRIP FUNCTION-GRD FAULT (WIRE)	SPRING RELEASE (CLOSE COIL)	SHUNT TRIP (OPEN COIL)	DEVICE MOTOR OPERATOR VOLTAGE	AUXILIARY SWITCH	UVR/2ND SHUNT TRIP	BREAKER CELL POSITION SWITCH	BELL ALARM (OTS)	BREAKER CODE (SEE NOTES)	KEY INTERLOCK	ACCESSORIES (SEE LEGEND)	TERMINATION INFORMATION				QUANTITY PER	ADDITIONAL ACCESSORIES, FEATURES, AND NOTES	DRAWING REFERENCES AND/OR CATALOG NO.	
																						CONDUIT ENTRY		TERMINAL TYPE (SEE LEGEND)	TERMINAL SIZE				
																						CONTROL	POWER						
5	A	CONDENSATE PUMP 5-2 800AF 90AT	MPS-608	800	3	65		PXR25	200	24VDC	LSIG-4W	110-127 VAC/DC	110-127 VAC/DC	110/125 VAC	8C		4C	2C	65DG			T&B	T&B	M	PH.#2AWG-600KCMIL N.#2AWG-600KCMIL G.#6AWG-350KCMIL	1 1 1			
5	B	CONTROL AIR COMPRESSOR 800AF 90AT	MPS-608	800	3	65		PXR25	200	24VDC	LSIG-4W	110-127 VAC/DC	110-127 VAC/DC	110/125 VAC	8C		4C	2C	65DG			T&B	T&B	M	PH.#2AWG-600KCMIL N.#2AWG-600KCMIL G.#6AWG-350KCMIL	1 1 1			
5	C	LIGHTING TRANS. 5B 800AF 225AT	MPS-608	800	3	65		PXR25	250	24VDC	LSIG-4W							IND.	552H			T&B	T&B	M	PH.#2AWG-600KCMIL N.#2AWG-600KCMIL G.#6AWG-350KCMIL	1 1 1			
5	D	OIL PUMP HOUSE NORTH GATE 800AF 90AT	MPS-608	800	3	65		PXR25	200	24VDC	LSIG-4W	110-127 VAC/DC	110-127 VAC/DC	110/125 VAC	8C		4C	2C	65DG			T&B	T&B	M	PH.#2AWG-600KCMIL N.#2AWG-600KCMIL G.#6AWG-350KCMIL	1 1 1			
6	A	B.R. MCC 800AF 225AT	MPS-608	800	3	65		PXR25	250	24VDC	LSIG-4W							IND.	552H			T&B	T&B	M	PH.#2AWG-600KCMIL N.#2AWG-600KCMIL G.#6AWG-350KCMIL	1 1 1			
6	B	SPARE 800AF 80AT	MPS-608	800	3	65		PXR25	200	24VDC	LSIG-4W	110-127 VAC/DC	110-127 VAC/DC	110/125 VAC	8C		4C	2C	65DG			T&B	T&B	M	PH.#2AWG-600KCMIL N.#2AWG-600KCMIL G.#6AWG-350KCMIL	1 1 1			
6	C	SPARE 800AF 80AT	MPS-608	800	3	65		PXR25	200	24VDC	LSIG-4W	110-127 VAC/DC	110-127 VAC/DC	110/125 VAC	8C		4C	2C	65DG			T&B	T&B	M	PH.#2AWG-600KCMIL N.#2AWG-600KCMIL G.#6AWG-350KCMIL	1 1 1			
6	D	WELDER FEED 800AF 150AT	MPS-608	800	3	65		PXR25	200	24VDC	LSIG-4W							IND.	5428			T&B	T&B	M	PH.#2AWG-600KCMIL N.#2AWG-600KCMIL G.#6AWG-350KCMIL	1 1 1			

5A	6A
5B	6B
5C	6C
5D	6D


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	APPD CHETAN PATIL DATE 06/19/2025	DATE 06/19/2025	TITLE NDS 5 480v Switchgear Replacement HU 2024-27 480V SWGR	UNIT SCHEDULE
	PRODUCT CODE OL	S.O. LOOGLBH	TYPE MAGNUM PXR SWITCHGEAR	G.O. LOM0036991-002
	REVISION 1	DWG LOOGLBH-N	SHEET 003	COEF1BL_R7

SECTION NUMBER	UNIT NUMBER	UNIT NAMEPLATE	UNIT/DEVICE TYPE	DEVICE SIZE [AMPS]	POLES	INTERRUPTING RATING [kAIC]	LIMITER SIZE [AMPS]	TRIP UNIT (SEE NOTES)	RATED CURRENT (I _n) [AMPS]	TRIP UNIT DISPLAY POWER SUPPLY VOLTAGE	TRIP FUNCTION-GRD FAULT (WIRE)	SPRING RELEASE (CLOSE COIL)	SHUNT TRIP (OPEN COIL)	DEVICE MOTOR OPERATOR VOLTAGE	AUXILIARY SWITCH	UVR/2ND SHUNT TRIP	BREAKER CELL POSITION SWITCH	BELL ALARM (OTS)	BREAKER CODE (SEE NOTES)	KEY INTERLOCK	ACCESSORIES (SEE LEGEND)	TERMINATION INFORMATION				ADDITIONAL ACCESSORIES, FEATURES, AND NOTES	DRAWING REFERENCES AND/OR CATALOG NO.							
																						CONDUIT ENTRY		TERMINAL TYPE (SEE LEGEND)	TERMINAL SIZE			QUANTITY PER						
																						CONTROL	POWER											
7	A		MAIN METERING																															
7	C	MAIN (52-2) 800AF 800AT	MPS-608	800	3	65		PXR25	800	24VDC	LSIG-4W	110-127 VAC/DC	110-127 VAC/DC	110/125 VAC	12C		4C	2C	5F8C		PCB	T&B											XFMR CLOSE COUPLED	
7	D	SPARE 800AF 80AT	MPS-608	800	3	65		PXR25	200	24VDC	LSIG-4W	110-127 VAC/DC	110-127 VAC/DC	110/125 VAC	8C		4C	2C	65DG			T&B	T&B	M	PH.#2AWG-600KCMIL N. #2AWG-600KCMIL G. #6AWG-350KCMIL	1 1 1								
8	A		BLANK COMPARTMENT																															
8	B		BLANK COMPARTMENT																															
8	C		BLANK COMPARTMENT																															
8	D		BLANK COMPARTMENT																															

7A	8A
	8B
7C	8C
7D	8D

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	APPD CHETAN PATIL DATE 06/19/2025		TITLE NDS 5 480v Switchgear Replacement HU 2024-27 480V SWGR
	PRODUCT CODE OL	S.O. LOOGLBH	TYPE MAGNUM PXR SWITCHGEAR
	REVISION 1	G.O. LOM0036991-002	UNIT SCHEDULE DWG LOOGLBH-N SHEET 004

REVISION HISTORY				
REV	REVISION DESCRIPTION	BY	APPD	DATE
1	CUSTOMER APPROVAL	CSP	CSP	08/15/2024
2	RELEASE FOR DRAFTING	CSP	CSP	06/19/2025


		ISSUED FOR CONSTRUCTION - THE INFORMATION ON THIS DOCUMENT IS SUITABLE FOR USE IN ESTABLISHING FINAL INSTALLATION AND CONSTRUCTION DETAILS.			
DFTR	DATE	THE INFORMATION ON THIS DOCUMENT IS CREATED BY EATON CORPORATION. IT WAS DISCLOSED IN CONFIDENCE AND IS ONLY TO BE USED FOR THE PURPOSE IN WHICH IT IS SUPPLIED. 			
C.PATIL	06/19/2025				
APPD	DATE	TITLE NDS 5 480v Switchgear Replacement HU 202 480V SWGR			
C.PATIL	06/19/2025				
S.O.		TYPE	DEVICE LABELS		
	L00GLBH	MAGNUM PXR SWITCHGEAR			
PRODUCT CODE	CAGE CODE	REVISION	G.O.	DWG	SHEET
OL	68592	2 A	LOM0036991-002	L00GLBH-Y001	1 OF 4

INTERIOR DEVICE LABELS

Device ID	NP. ID	Line 1	Line 2	Line 3	Type
C1	8019	83-1/83-2 XFR	CONTACTOR	C1	1
CB20	8000	F7D CTRL PWR	10A/1P	CB20	1
CB21	8001	F4D CTRL PWR	10A/1P	CB21	1
CB22	8002	T4C CTRL PWR	10A/1P	CB22	1
CB23	8003	F4B CTRL PWR	10A/1P	CB23	1
CB24	8004	F3D CTRL PWR	10A/1P	CB24	1
CB25	8005	F3B CTRL PWR	10A/1P	CB25	1
CB26	8006	F3A CTRL PWR	10A/1P	CB26	1
CB27	8007	M2C CTRL PWR	10A/1P	CB27	1
CB28	8013	TRIP UNIT PWR	20A/2P	CB28	1
CB29	8015	P/S OUTPUT	10A/2P	CB29	1
CB30	8018	CPT SECONDARY	30A/2P	CB30	1
CB31	8022	27-1/83-1	10A/2P	CB31	1
CB32	8024	METER CTRL PWR	10A/1P	CB32	1
CB34	8026	PS I/P CTL CKT	10A/1P	CB34	1
CB35	8046	PLC POWER	10A/2P	CB35	1
CB36	8051	PS INPUT	10A/1P	CB36	1
CB37	8052	24VDC	20A/2P	CB37	1
CB38	8053	PLC OUTPUTS	10A/2P	CB38	1
CB39	8054	PLC INPUTS	10A/1P	CB39	1
CB40	8055	HMI POWER	10A/2P	CB40	1
CB41	8057	M7C CTRL PWR	10A/1P	CB41	1
CB42	8058	F6C CTRL PWR	10A/1P	CB42	1
CB43	8059	F6B CTRL PWR	10A/1P	CB43	1
CB44	8060	F5D CTRL PWR	10A/1P	CB44	1
CB45	8061	F5B CTRL PWR	10A/1P	CB45	1
CB46	8062	F5A CTRL PWR	10A/1P	CB46	1
CB49	8070	CPT SECONDARY	30A/2P	CB49	1
CB50	8073	27-2/83-2	10A/2P	CB50	1
CB51	8076	METER CTRL PWR	10A/1P	CB51	1
COM1	8011	PXG1000	GATEWAY	COM1	1
COM2	8012	ETHERNET	SWITCH	COM2	1
COM5	8067	ETHERNET	SWITCH	COM5	1
COM6	8066	PXG1000	GATEWAY	COM6	1

LABEL TYPE CODES:

1 - 2.000" X 1.000" LABEL, ADHESIVE, WHITE WITH BLACK LETTERS 0.156" HIGH


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C.PATIL		06/19/2025					
APPD		DATE		TITLE			
C.PATIL		06/19/2025		NDS 5 480v Switchgear Replacement HU 202 480V SWGR			
S.O.				TYPE		DEVICE LABELS	
L00GLBH				MAGNUM PXR SWITCHGEAR			
PRODUCT CODE		CAGE CODE		REVISION		G.O.	
OL		68592		2 A		LOM0036991-002	
				DWG		SHEET	
				L00GLBH-Y001		2 OF 4	

INTERIOR DEVICE LABELS

Device ID	NP. ID	Line 1	Line 2	Line 3	Type
CPT1	8016	5KVA CPT	480:120/240VAC	CPT1	1
CPT2	8069	5KVA CPT	480:120/240VAC	CPT2	1
CR1	8021	27-1	UVR RELAY	CR1	1
CR2	8031	95C-1 CLOSE	RELAY	CR2	1
CR3	8032	CP	OK	CR3	1
CR4	8033	43X	AUTO/MANUAL	CR4	1
CR5	8034	52-2	OTSY-2	CR5	1
CR6	8029	95C-2 CLOSE	RELAY	CR6	1
CR7	8036	52-1	OTSY-1	CR7	1
CR8	8037	52-2	OTSX-2	CR8	1
CR9	8038	52-T	OTSX-T	CR9	1
CR10	8039	52-1	OTSX-1	CR10	1
CR11	8028	95T-2 TRIP	RELAY	CR11	1
CR12	8044	95T-T TRIP	RELAY	CR12	1
CR13	8043	95T-1 TRIP	RELAY	CR13	1
CR14	8030	95C-T CLOSE	RELAY	CR14	1
CR15	8035	52-T	OTSY-T	CR15	1
CR16	8072	27-2	UVR RELAY	CR16	1
DS1	8020	PT PRIMARY	DISCONNECT	DS1	1
DS2	8017	CPT PRIMARY	DISCONNECT	DS2	1
DS3	8071	CPT PRIMARY	DISCONNECT	DS3	1
DS4	8074	PT PRIMARY	DISCONNECT	DS4	1
FU1	8014	PXG CURRENT	LIMITER	FU1	1
FU2	8068	PXG CURRENT	LIMITER	FU2	1
FU11	8009	PT PRIMARY	2A FNQ-R FUSES	FU11	1
FU12	8008	PT SECONDARY	2A FNQ FUSES	FU12	1
FU21	8064	PT PRIMARY	2A FNQ-R FUSES	FU21	1
FU22	8063	PT SECONDARY	2A FNQ FUSES	FU22	1
PLC2	8047	CPU	MODULE	PLC2	1
PLC3	8040	I/O EXPANSION	MODULE	PLC3	1
PLC4	8042	I/O EXPANSION	MODULE	PLC4	1
PLC5	8041	I/O EXPANSION	MODULE	PLC5	1
PLC6	8045	PLC		PLC6	1
PR1	8023	SOURCE 1	UVR	PR1	1

LABEL TYPE CODES:

1 - 2.000" X 1.000" LABEL, ADHESIVE, WHITE WITH BLACK LETTERS 0.156" HIGH

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DFTR		DATE		THE INFORMATION ON THIS DOCUMENT IS CREATED BY EATON CORPORATION. IT WAS DISCLOSED IN CONFIDENCE AND IS ONLY TO BE USED FOR THE PURPOSE IN WHICH IT IS SUPPLIED. 			
C.PATIL		06/19/2025					
APPD		DATE		TITLE			
C.PATIL		06/19/2025		NDS 5 480v Switchgear Replacement HU 202 480V SWGR			
S.O.				TYPE		DEVICE LABELS	
L00GLBH				MAGNUM PXR SWITCHGEAR			
PRODUCT CODE	CAGE CODE	REVISION		G.O.	DWG	SHEET	
OL	68592	2	A	LOM0036991-002	L00GLBH-Y001	3 OF 4	

INTERIOR DEVICE LABELS


Device ID	NP. ID	Line 1	Line 2	Line 3	Type
PR2	8075	SOURCE 2	UVR	PR2	1
PS1	8025	POWER SUPPLY		PS1	1
PS2	8049	UPS	BATTERY	PS2	1
PS3	8050	UPS		PS3	1
PS4	8056	POWER	SUPPLY	PS4	1
PT1	8010	POTENTIAL XFMR	480:120VAC	PT1	1
PT2	8065	POTENTIAL XFMR	480:120VAC	PT2	1
SU1	8048	SURGE	PROTECTOR	SU1	1

LABEL TYPE CODES:

1 - 2.000" X 1.000" LABEL, ADHESIVE, WHITE WITH BLACK LETTERS 0.156" HIGH

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DFTR		DATE		THE INFORMATION ON THIS DOCUMENT IS CREATED BY EATON CORPORATION. IT WAS DISCLOSED IN CONFIDENCE AND IS ONLY TO BE USED FOR THE PURPOSE IN WHICH IT IS SUPPLIED.		
C.PATIL		06/19/2025				
APPD		DATE		TITLE		
C.PATIL		06/19/2025		NDS 5 480v Switchgear Replacement HU 202 480V SWGR		
S.O.				TYPE		
L00GLBH				MAGNUM PXR SWITCHGEAR		DEVICE LABELS
PRODUCT CODE	CAGE CODE	REVISION		G.O.	DWG	SHEET
OL	68592	2	A	LOM0036991-002	L00GLBH-Y001	4 OF 4

REVISION HISTORY				
REV	REVISION DESCRIPTION	BY	APPD	DATE
1	CUSTOMER APPROVAL	CSP	CSP	08/15/2024
2	RELEASE FOR DRAFTING	CSP	CSP	06/19/2025

		ISSUED FOR CONSTRUCTION - THE INFORMATION ON THIS DOCUMENT IS SUITABLE FOR USE IN ESTABLISHING FINAL INSTALLATION AND CONSTRUCTION DETAILS.				
DFTR	DATE	THE INFORMATION ON THIS DOCUMENT IS CREATED BY EATON CORPORATION. IT WAS DISCLOSED IN CONFIDENCE AND IS ONLY TO BE USED FOR THE PURPOSE IN WHICH IT IS SUPPLIED. 				
C.PATIL	06/19/2025					
APPD	DATE	TITLE NDS 5 480v Switchgear Replacement HU 202 480V SWGR				
C.PATIL	06/19/2025					
S.O.		TYPE	DEVICE NAMEPLATES			
	L00GLBH	MAGNUM PXR SWITCHGEAR				
PRODUCT CODE	CAGE CODE	REVISION	G.O.	DWG	SHEET	
OL	68592	2	A	LOM0036991-002	L00GLBH-Y101	1 OF 2


EXTERIOR DEVICE NAMEPLATES

Device ID	NP. ID	Line 1	Line 2	Line 3	Type
COM3	7046	ETHERNET	PORT	COM3	1
COM4	7051	ETHERNET	PORT	COM4	1
LT19	7043	AUTOMATIC	MODE		2
LT20	7042	PLC	OK		2
LT21	7038	AUTO	FAIL		2
LT22	7041	MANUAL	MODE		2
LT23	7040	AUTO	FAIL		2
LT24	7039	CP	OK		2
MT1	7045	MAIN	METERING	MT1	1
MT2	7050	MAIN	METERING	MT2	1
PB1	7044	ALARM	RESET		2
PLC1	7048	HMI	XP-504	PLC1	1
SS9	7047	TRANSFER MODE	SELECTOR	SS9	1
SS10	7049	43-1	PREFERRED SOURCE	SS10	1


NAMEPLATE TYPE CODES:

1 - 2.500" X 1.000" NAMEPLATE, REFER TO OUTLINE DRAWING FOR MOUNTING TYPE, GRAY WITH BLACK LETTERS 0.156" HIGH

2 - 2.180" X 2.180" NAMEPLATE, REFER TO OUTLINE DRAWING FOR MOUNTING TYPE, GRAY WITH BLACK LETTERS 0.156" HIGH

ISSUED FOR CONSTRUCTION - THE INFORMATION ON THIS DOCUMENT IS SUITABLE FOR USE IN ESTABLISHING FINAL INSTALLATION AND CONSTRUCTION DETAILS.							
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C.PATIL		06/19/2025					
APPD		DATE		TITLE			
C.PATIL		06/19/2025		NDS 5 480v Switchgear Replacement HU 202 480V SWGR			
S.O.				TYPE		DEVICE NAMEPLATES	
L00GLBH				MAGNUM PXR SWITCHGEAR			
PRODUCT CODE		CAGE CODE		REVISION		G.O.	
OL		68592		2 A		LOM0036991-002	
				DWG		SHEET	
				L00GLBH-Y101		2 OF 2	

REVISION HISTORY				
REV	REVISION DESCRIPTION	BY	APPD	DATE
1	CREATED	KH	KH	08/11/2025

		ISSUED FOR CONSTRUCTION - THE INFORMATION ON THIS DOCUMENT IS SUITABLE FOR USE IN ESTABLISHING FINAL INSTALLATION AND CONSTRUCTION DETAILS.				
DFTR		DATE	THE INFORMATION ON THIS DOCUMENT IS CREATED BY EATON CORPORATION. IT WAS DISCLOSED IN CONFIDENCE AND IS ONLY TO BE USED FOR THE PURPOSE IN WHICH IT IS SUPPLIED. 			
K.HOWITT		08/11/2025				
APPD		DATE	TITLE			
K.HOWITT		08/11/2025	NDS 5 480v Switchgear Replacement HU 202 480V SWGR			
S.O.		TYPE		RATING MARKINGS		
L00GLBH		MAGNUM PXR SWITCHGEAR				
PRODUCT CODE	CAGE CODE	REVISION	G.O.	DWG	SHEET	
OL	68592	1	A	LOM0036991-002	L00GLBH-Y301	1 OF 6



LOW VOLTAGE SWITCHGEAR ASSEMBLY

2.2 KV INSULATION LEVEL
IB01901006E

DWG NO. L00GLBH-O			G.O. NUMBER LOM0036991		ITEM NUMBER 002	MFD AT ASH	DATE 08/2025	
VOLTAGE 480/277	PHASE 3	WIRE 4	HERTZ 60	SHORT CIRCUIT CURRENT (kA) 65		SHORT TIME CURRENT (kA) 65		
MAIN BUS (A) 3200	SECT. BUS (A) ---							
MAIN NEU. (A) 3200	SECT. NEU. (A) 3200							
MADE IN USA 9253C56H101								

Location: Structure 1		6.810" X 2.880" NAMEPLATE, REFER TO OUTLINE DRAWING FOR MOUNTING TYPE, BLACK WITH WHITE LETTERS 0.156" HIGH		Id: 1009	1/1
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							ISSUED FOR CONSTRUCTION - THE INFORMATION ON THIS DOCUMENT IS SUITABLE FOR USE IN ESTABLISHING FINAL INSTALLATION AND CONSTRUCTION DETAILS.									
							DFTR K.HOWITT		DATE 08/11/2025		THE INFORMATION ON THIS DOCUMENT IS CREATED BY EATON CORPORATION. IT WAS DISCLOSED IN CONFIDENCE AND IS ONLY TO BE USED FOR THE PURPOSE IN WHICH IT IS SUPPLIED.					
							APPD K.HOWITT		DATE 08/11/2025		TITLE NDS 5 480v Switchgear Replacement HU 202 480V SWGR					
							S.O. L00GLBH				TYPE MAGNUM PXR SWITCHGEAR			RATING MARKINGS		
PRODUCT CODE OL		CAGE CODE 68592		REVISION 1	A	G.O. LOM0036991-002		DWG L00GLBH-Y301		SHEET 2 OF 6						

EATON BUS RATING

MAIN BUS (A)	
3200	
SECTION BUS (A)	
3200	
MAIN NEU. (A)	
3200	
SECTION NEU. (A)	
3200	
2.2 KV INSULATION LEVEL 9253C56H103	

Location: Structure 2

3.500" X 2.880" NAMEPLATE, REFER TO OUTLINE DRAWING FOR MOUNTING TYPE, BLACK WITH WHITE LETTERS 8.250" HIGH

Id: 1010

1/7

EATON BUS RATING

MAIN BUS (A)	
3200	
SECTION BUS (A)	
3200	
MAIN NEU. (A)	
3200	
SECTION NEU. (A)	
3200	
2.2 KV INSULATION LEVEL 9253C56H103	

Location: Structure 3

3.500" X 2.880" NAMEPLATE, REFER TO OUTLINE DRAWING FOR MOUNTING TYPE, BLACK WITH WHITE LETTERS 8.250" HIGH

Id: 1011

2/7

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DFTR	DATE	THE INFORMATION ON THIS DOCUMENT IS CREATED BY EATON CORPORATION. IT WAS DISCLOSED IN CONFIDENCE AND IS ONLY TO BE USED FOR THE PURPOSE IN WHICH IT IS SUPPLIED.	EATON		
K.HOWITT	08/11/2025				
APPD	DATE	TITLE NDS 5 480v Switchgear Replacement HU 202 480V SWGR			
K.HOWITT	08/11/2025				
S.O.	L00GLBH	TYPE MAGNUM PXR SWITCHGEAR	RATING MARKINGS		
PRODUCT CODE	CAGE CODE	REVISION	G.O.	DWG	SHEET
OL	68592	1 A	LOM0036991-002	L00GLBH-Y301	3 OF 6

EATON BUS RATING

MAIN BUS (A)	
3200	
SECTION BUS (A)	
3200	
MAIN NEU. (A)	
3200	
SECTION NEU. (A)	
3200	

2.2 KV INSULATION LEVEL 9253C56H103

Location: Structure 4

3.500" X 2.880" NAMEPLATE, REFER TO OUTLINE DRAWING FOR MOUNTING TYPE, BLACK WITH WHITE LETTERS 8.250" HIGH

Id: 1012

3/7

EATON BUS RATING

MAIN BUS (A)	
3200	
SECTION BUS (A)	
2200	
MAIN NEU. (A)	
3200	
SECTION NEU. (A)	
3200	

2.2 KV INSULATION LEVEL 9253C56H103


Location: Structure 5

3.500" X 2.880" NAMEPLATE, REFER TO OUTLINE DRAWING FOR MOUNTING TYPE, BLACK WITH WHITE LETTERS 8.250" HIGH

Id: 1013

4/7

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K.HOWITT	08/11/2025		
APPD	DATE	TITLE	
K.HOWITT	08/11/2025	NDS 5 480v Switchgear Replacement HU 202 480V SWGR	
S.O.		TYPE	RATING MARKINGS
	L00GLBH	MAGNUM PXR SWITCHGEAR	

PRODUCT CODE	CAGE CODE	REVISION	G.O.	DWG	SHEET
OL	68592	1 A	LOM0036991-002	L00GLBH-Y301	4 OF 6

EATON BUS RATING

MAIN BUS (A)	
3200	
SECTION BUS (A)	
2200	
MAIN NEU. (A)	
3200	
SECTION NEU. (A)	
3200	
2.2 KV INSULATION LEVEL 9253C56H103	

Location: Structure 6

3.500" X 2.880" NAMEPLATE, REFER TO OUTLINE DRAWING FOR MOUNTING TYPE, BLACK WITH WHITE LETTERS 8.250" HIGH

Id: 1014

5/7

EATON BUS RATING

MAIN BUS (A)	
3200	
SECTION BUS (A)	
3200	
MAIN NEU. (A)	
3200	
SECTION NEU. (A)	
3200	
2.2 KV INSULATION LEVEL 9253C56H103	


Location: Structure 7

3.500" X 2.880" NAMEPLATE, REFER TO OUTLINE DRAWING FOR MOUNTING TYPE, BLACK WITH WHITE LETTERS 8.250" HIGH

Id: 1015

6/7

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K.HOWITT	08/11/2025		
APPD	DATE	TITLE	
K.HOWITT	08/11/2025	NDS 5 480v Switchgear Replacement HU 202 480V SWGR	
S.O.		TYPE	RATING MARKINGS
	L00GLBH	MAGNUM PXR SWITCHGEAR	

PRODUCT CODE	CAGE CODE	REVISION	G.O.	DWG	SHEET
OL	68592	1 A	LOM0036991-002	L00GLBH-Y301	5 OF 6

EATON BUS RATING

MAIN BUS (A)	
3200	
SECTION BUS (A)	

MAIN NEU. (A)	
3200	
SECTION NEU. (A)	
3200	
2.2 KV INSULATION LEVEL 9253C56H103	


Location: Structure 8

3.500" X 2.880" NAMEPLATE, REFER TO OUTLINE DRAWING FOR MOUNTING TYPE, BLACK WITH WHITE LETTERS 8.250" HIGH

Id: 1016


7/7

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K.HOWITT	08/11/2025		
APPD	DATE	TITLE NDS 5 480v Switchgear Replacement HU 202 480V SWGR	
K.HOWITT	08/11/2025		
S.O.		TYPE	RATING MARKINGS
	L00GLBH	MAGNUM PXR SWITCHGEAR	


PRODUCT CODE	CAGE CODE	REVISION		G.O.	DWG	SHEET
OL	68592	1	A	LOM0036991-002	L00GLBH-Y301	6 OF 6

REVISION HISTORY				
REV	REVISION DESCRIPTION	BY	APPD	DATE
1	CUSTOMER APPROVAL	CSP	CSP	08/15/2024
2	RELEASE FOR DRAFTING	CSP	CSP	06/19/2025
3	ADDED CT5 189-010-10	CSP	CSP	08/19/2025

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C.PATIL	08/19/2025				
APPD	DATE	TITLE NDS 5 480v Switchgear Replacement HU 202 480V SWGR			
K.HOWITT	08/19/2025				
S.O.		TYPE	CUSTOMER BOM		
	L00GLBH	MAGNUM PXR SWITCHGEAR			
PRODUCT CODE	CAGE CODE	REVISION	G.O.	DWG	SHEET
OL	68592	3 A	LOM0036991-002	L00GLBH-P401	1 OF 17


CONSOLIDATED PARTS

DEVICE ID	DESCRIPTION	PART NUMBER	QTY	NOTE	MARKING
C1	CONTACTOR, REVERSING, 32A, 240VAC/60HZ, 220VAC/50HZ	CE55FN3BB	1		8019
CB1, CB18	STANDARD 800A/3P MPS6083WEA082SANANWYPNNAX- 5F8C	MPS6083WEA-5F8C	2		
CB2, CB5, CB12, CB14	STANDARD 800A/3P MPS6083WEA052SNMNNNNNNNAX- 552H	MPS6083WEA-552H	4		
CB3, CB4, CB6, CB9, CB10, CB11, CB13, CB15, CB16, CB19	STANDARD 800A/3P MPS6083WEA022SANANDYNNNAX- 65DG	MPS6083WEA-65DG	11		
CB7	STANDARD 800A/3P MPS6083WEA052SANANDYNNNAX- 65DH	MPS6083WEA-65DH	1		
CB8	STANDARD 800A/3P MPS6083WEA062SANANWYPNNAX- 5TRW	MPS6083WEA-5TRW	1		
CB17	STANDARD 800A/3P MPS6083WEA022SNMNNNNNNNAX- 5428	MPS6083WEA-5428	1		
CB20, CB21, CB22, CB23, CB24, CB25, CB26, CB27, CB32, CB34, CB36, CB39, CB41, CB42, CB43, CB44, CB45, CB46, CB51	FAZ CIRCUIT BREAKER, 10A/1P (PS)	FAZ-C10/1-SP	19		8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8024, 8026, 8051, 8054, 8057, 8058, 8059, 8060, 8061, 8062, 8076
CB28	FAZ-C20/2-NA-DC,20A/2P,250VDC	120645	1		8013
CB29, CB31, CB35, CB38, CB40, CB50	FAZ BREAKER, 10A/2P	FAZ-C10/2-NA	6		8015, 8022, 8046, 8053, 8055, 8073
CB30, CB49	FAZ BREAKER, 30A/2P	102173	2		8018, 8070
CB37	QCR CIRCUIT BREAKER, 20A/2P (UPS)	QCR2020	1		8052
CBCS1, CBCS3, CBCS4, CBCS6, CBCS7, CBCS8, CBCS9, CBCS10, CBCS11, CBCS13, CBCS15, CBCS16, CBCS18, CBCS19	PXR BKR CELL SWITCH-4 FORM C	1B93090G111	14		
COM1, COM6	PX GATEWAY 1000	PXG1000-CS0000D	2		8011, 8066
COM2, COM5	N-TRON 8 PORT ETHERNET SWITCH	108TX	2		8012, 8067
COM3, COM4	EATON M22 RJ45 SOCKET	M22-RJ45-SA	2		7046, 7051
CPT1, CPT2	CPT, 5KVA, 480/120-240V WITH FUSE PULLER	114B738G32	2		8016, 8069
CR1, CR16	UOA-240-AFA AND BASE UVR RELAY	10-10551-1	2		8021, 8072
CR2, CR3, CR4, CR6, CR11, CR12, CR13, CR14	RELAY D7PF 24VDC DPDT FFA (CP)	10-10550-2	8		8031, 8032, 8033, 8029, 8028, 8044, 8043, 8030

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APPD		DATE		TITLE NDS 5 480v Switchgear Replacement HU 202 480V SWGR			
K.HOWITT		08/19/2025					
S.O.				TYPE		CUSTOMER BOM	
L00GLBH				MAGNUM PXR SWITCHGEAR			
PRODUCT CODE	CAGE CODE	REVISION		G.O.	DWG	SHEET	
OL	68592	3	A	LOM0036991-002	L00GLBH-P401	2 OF 17	


CONSOLIDATED PARTS

DEVICE ID	DESCRIPTION	PART NUMBER	QTY	NOTE	MARKING
CR5, CR7, CR15	RELAY D7PF 120VAC DPDT (52-1 OTSY)	10-10550-1	3		8034, 8036, 8035
CR8, CR9, CR10	RELAY D7PF 120VAC 4PDT (52-1 OTSX)	10-10550-4	3		8037, 8038, 8039
CT1, CT2	CURRENT TRANSFORMER 3PH 800:5, 2000AF MAX	9253C00H07	2		
CT3, CT4, CT5	CURRENT TRANSFORMER, 10/10A, MAIN BK	189-010-10	3		
CTN21, CTN22, CTN31, CTN32, CTN33, CTN34, CTN41, CTN42, CTN43, CTN51, CTN52, CTN53, CTN54, CTN61, CTN62, CTN63, CTN64, CTN71, CTN72	SENSOR 4000:1	9253C03H17	19		
DS1, DS2, DS3, DS4	40A NON-FUSED DISCONNECT PT	45-3100-1	4		8020, 8017, 8071, 8074
FU1, FU2	GATEWAY LIMITER ASSY	99-6446-2	2		8014, 8068
FU11, FU21	PULL-FUSEBLOCK, 3P, 30A, 600V	36C1027H12	2		8009, 8064
FU12, FU22	FUSEBLOCK, PULL,FNQ,3P,30A,W/BLOWNFUSE INDICATOR	36C1027H05	2		8008, 8063
LT7, LT11, LT14, LT17, LT26, LT29, LT32, LT35, LT38, LT41, LT44, LT47, LT49, LT53, LT57, LT58	C-H E34 LED LIGHT, TRANSFORMER, RED, 120VAC	E34TB120LRP06	16		
LT8, LT10, LT13, LT16, LT25, LT30, LT31, LT34, LT37, LT40, LT43, LT46, LT50, LT52, LT59, LT60	C-H E34 LED LIGHT, TRANSFORMER, BLUE, 120VAC	E34TB120LLP06	16		
LT9, LT12, LT15, LT18, LT27, LT28, LT33, LT36, LT39, LT42, LT45, LT48, LT51, LT54, LT55, LT56	C-H E34 LED LIGHT, TRANSFORMER, GREEN, 120VAC	E34TB120LGP06	16		
LT19	C-H E34 LIGHT, GREEN 24VDC LED (AUTO)	E34FB197LGP24X	1		7043
LT20, LT24	C-H E34 LIGHT, WHITE 24VDC LED (PLC)	E34FB197LWP24X	2		7042, 7039
LT21, LT23	C-H E34 LIGHT, AMBER 24VDC LED (SA)	E34FB197LAP24X	2		7038, 7040
LT22	C-H E34 LIGHT, BLUE 24VDC LED (MAN)	E34FB197LLP24X	1		7041
MISC2	MAGNUM REMOTE RACKING DEVICE (MRR1000) W/ US PWR CORD, STORAGE CASE	9259C80G02	1		
MT1, MT2	METER PXM1300MB151 W/ETHMULTI	41-3671-17	2		7045, 7050
PB1	PB,E34 RED FLUSH W/2NO CNT BLK (ALRM RST)	25A4124G04	1		7044

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C.PATIL	08/19/2025					
APPD	DATE	TITLE NDS 5 480v Switchgear Replacement HU 202 480V SWGR				
K.HOWITT	08/19/2025					
S.O.	L00GLBH	TYPE			CUSTOMER BOM	
		MAGNUM PXR SWITCHGEAR				
PRODUCT CODE	CAGE CODE	REVISION		G.O.	DWG	SHEET
OL	68592	3	A	LOM0036991-002	L00GLBH-P401	3 OF 17


CONSOLIDATED PARTS

DEVICE ID	DESCRIPTION	PART NUMBER	QTY	NOTE	MARKING
PLC1	EATON XP-504-15-A10-A01-2V HMI, 15.6", LOCAL	199999	1		7048
PLC2	PLC EATON XN-322-16DO-P05	04-12154-1	1		8047
PLC3, PLC4, PLC5	DIGITAL I/O MOD E XN32216DIPD 1	XN-322-16DI-PD	3		8040, 8042, 8041
PLC6	PLC EATON XC-303-C11-000	XC-303-C11-000	1		8045
PR1, PR2	TIMEMARK 3-PH POWER MONITOR, 120VAC (47-1)	A2644	2		8023, 8075
PS1	PHOENIX PS, QUINT-PS/1AC/24DC-20A, PXR	2866776	1		8025
PS2	POWER PHOENIX CONTACT 1274117	42-6574-2	1		8049
PS3	PHOENIX CONTACT QUINT UPS	2320225	1		8050
PS4	PHOENIX CONTACT QUINT PS, 24VDC	2866763	1		8056
PT1, PT2	3PH VT 480:120 W/O FUSE CLIP	4601B05H31	2		8010, 8065
RES1	TERMINATING RESISTOR, FOR IMPACC NETWORK, 100 OHM	73434FE0FQ	1		
SS1, SS4, SS6, SS8, SS12, SS13, SS16, SS18, SS20, SS22, SS24, SS26, SS27, SS30	E34 BREAKER CONTROL SWITCH, GRAY LEVER	25A4124G41	14		
SS2, SS3, SS5, SS7, SS11, SS14, SS15, SS17, SS19, SS21, SS23, SS25, SS28, SS29	E34 SW 2 POS MM W/COVER	25A4124G80	14		
SS9	SERIES 24 SELECTOR SWITCH (43)	90-28351-105	1		7047, 1018
SS10	ELE SWITCH SER-24 (PRF SRC)	90-28351-199	1		7049, 1019
SU1	PHOENIX CONTACT TYPE 3 SURGE PROTECTOR	10-10666-11	1		8048
TB6, TB27, TB55	3-3 POINT SCREW TYPE	81-28333-3	3		
TB7	TB-600V 40A DIN RAIL	TBDT3	1		
TB8, TB9, TB29, TB30, TB57, TB58	TB 10-3PT PULL-APART TERM BLK COMPT TB	81-27899	6		
TBT1, TBT56, TBT158	6-6PT MAG FIELD TERM BTM ROW	81-28256-3	3		
TBT55	6PT MAG FIELD TERM TOP ROW (6)	81-28256-1	1		
	ANSI-61 PAINT IN 12 OZ SPRAY CAN	32220BM00S	2		
	BUSSMANN TYPE FNQ FUSE, 2A, 500V	FNQ2	12		
	BUSSMANN TYPE FNQ-R FUSE, 2A, 600V	1A85201H17	12		
	COMMUNICATION CABLE U050010	U050-010	1		
	FUSE, CLASS RK-5, 25A, 600V	481A423H34	8		
	LUG, MECHANICAL SET-SCREW, #6AWG-350MCM, 1-HOLE	277C431H01	18		
	LUG, MECHANICAL SET-SCREW, #2AWG-600MCM, 2-HOLE	414A351H04	64		
	MAGNETIC COVER,MAG HD BKR CELL	9250C50G02	1		
	MAGNUM DS HDW KIT 3/PH	MAZA000GCB	2		

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C.PATIL	08/19/2025					
APPD	DATE	TITLE NDS 5 480v Switchgear Replacement HU 202 480V SWGR				
K.HOWITT	08/19/2025					
S.O.	L00GLBH	TYPE		CUSTOMER BOM		
		MAGNUM PXR SWITCHGEAR				
PRODUCT CODE	CAGE CODE	REVISION		G.O.	DWG	SHEET
OL	68592	3	A	LOM0036991-002	L00GLBH-P401	4 OF 17


CONSOLIDATED PARTS

DEVICE ID	DESCRIPTION	PART NUMBER	QTY	NOTE	MARKING
	MAGNUM DS HDW KIT NEUTRAL 3/PH	MAZB000G0C	2		
	MAGNUM DS HDW KIT STRUCTURE	MAZC000G0A	2		
	MAGNUM DS LEVERING TOOL	MAZE000G0A	1		
	PSC STD CONFIG FOR XC303 MTM	4-12187-3	1		
	SPREADER BAR FOR 3-P MDS/MDSX	MAZD000GAB	1		
	STANDARD OVERHEAD HOIST	MAZD000GCA	1		

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C.PATIL		08/19/2025			
APPD		DATE			
K.HOWITT		08/19/2025	TITLE	NDS 5 480v Switchgear Replacement HU 202 480V SWGR	
S.O.		L00GLBH	TYPE	MAGNUM PXR SWITCHGEAR	CUSTOMER BOM
PRODUCT CODE	CAGE CODE	REVISION	G.O.	DWG	SHEET
OL	68592	3	A	LOM0036991-002	L00GLBH-P401
					5 OF 17


SECTION 1 PARTS

DEVICE ID	DESCRIPTION	PART NUMBER	QTY	NOTE	MARKING
	LUG, MECHANICAL SET-SCREW, #6AWG-350MCM, 1-HOLE	277C431H01	1		

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							C.PATIL	08/19/2025							
							APPD	DATE	TITLE	NDS 5 480v Switchgear Replacement HU 202 480V SWGR					
S.O.	L00GLBH		TYPE				MAGNUM PXR SWITCHGEAR		CUSTOMER BOM						
PRODUCT CODE	CAGE CODE	REVISION		G.O.	DWG	SHEET									
OL	68592	3	A	LOM0036991-002	L00GLBH-P401	6 OF 17									


SECTION 2 PARTS

DEVICE ID	DESCRIPTION	PART NUMBER	QTY	NOTE	MARKING
CB1	STANDARD 800A/3P MPS6083WEA082SANANWYPNNAX-5F8C	MPS6083WEA-5F8C	1		
CB2	STANDARD 800A/3P MPS6083WEA052SNMNNNNNNNAX-552H	MPS6083WEA-552H	1		
CB27, CB32, CB36, CB39	FAZ CIRCUIT BREAKER, 10A/1P (PS)	FAZ-C10/1-SP	4		8007, 8024, 8051, 8054
CB29, CB35, CB38, CB40	FAZ BREAKER, 10A/2P	FAZ-C10/2-NA	4		8015, 8046, 8053, 8055
CB30	FAZ BREAKER, 30A/2P	102173	1		8018
CB37	QCR CIRCUIT BREAKER, 20A/2P (UPS)	QCR2020	1		8052
CBCS1	PXR BKR CELL SWITCH-4 FORM C	1B93090G111	1		
COM1, COM6	PX GATEWAY 1000	PXG1000-CS0000D	2		8011, 8066
COM2, COM5	N-TRON 8 PORT ETHERNET SWITCH	108TX	2		8012, 8067
COM3	EATON M22 RJ45 SOCKET	M22-RJ45-SA	1		7046
CPT1	CPT, 5KVA, 480/120-240V WITH FUSE PULLER	114B738G32	1		8016
CR7	RELAY D7PF 120VAC DPDT (52-1 OTSY)	10-10550-1	1		8036
CR10	RELAY D7PF 120VAC 4PDT (52-1 OTSX)	10-10550-4	1		8039
CT1	CURRENT TRANSFORMER 3PH 800:5, 2000AF MAX	9253C00H07	1		
CT3	CURRENT TRANSFORMER, 10/10A, MAIN BK	189-010-10	1		
CTN21, CTN22	SENSOR 4000:1	9253C03H17	2		
DS1, DS2	40A NON-FUSED DISCONNECT PT	45-3100-1	2		8020, 8017
FU1, FU2	GATEWAY LIMITER ASSY	99-6446-2	2		8014, 8068
FU11	PULL-FUSEBLOCK, 3P, 30A, 600V	36C1027H12	1		8009
FU12	FUSEBLOCK, PULL,FNQ,3P,30A,W/BLOWNFUSE INDICATOR	36C1027H05	1		8008
LT7	C-H E34 LED LIGHT, TRANSFORMER, RED, 120VAC	E34TB120LRP06	1		
LT8	C-H E34 LED LIGHT, TRANSFORMER, BLUE, 120VAC	E34TB120LLP06	1		
LT9	C-H E34 LED LIGHT, TRANSFORMER, GREEN, 120VAC	E34TB120LGP06	1		
MT1	METER PXM1300MB151 W/ETHMULTI	41-3671-17	1		7045
PLC1	EATON XP-504-15-A10-A01-2V HMI, 15.6", LOCAL	199999	1		7048
PLC2	PLC EATON XN-322-16DO-P05	04-12154-1	1		8047
PLC3, PLC4, PLC5	DIGITAL I/O MOD E XN32216DIPD 1	XN-322-16DI-PD	3		8040, 8042, 8041
PLC6	PLC EATON XC-303-C11-000	XC-303-C11-000	1		8045
PR1	TIMEMARK 3-PH POWER MONITOR, 120VAC (47-1)	A2644	1		8023
PS2	POWER PHOENIX CONTACT 1274117	42-6574-2	1		8049
PS3	PHOENIX CONTACT QUINT UPS	2320225	1		8050
PS4	PHOENIX CONTACT QUINT PS, 24VDC	2866763	1		8056
PT1	3PH VT 480:120 W/O FUSE CLIP	4601B05H31	1		8010
SS1	E34 BREAKER CONTROL SWITCH, GRAY LEVER	25A4124G41	1		
SS2	E34 SW 2 POS MM W/COVER	25A4124G80	1		
SU1	PHOENIX CONTACT TYPE 3 SURGE PROTECTOR	10-10666-11	1		8048

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C.PATIL	08/19/2025					
APPD	DATE					
K.HOWITT	08/19/2025	TITLE NDS 5 480v Switchgear Replacement HU 202 480V SWGR				
S.O.	L00GLBH	TYPE		CUSTOMER BOM		
		MAGNUM PXR SWITCHGEAR				
PRODUCT CODE	CAGE CODE	REVISION		G.O.	DWG	SHEET
OL	68592	3	A	LOM0036991-002	L00GLBH-P401	7 OF 17


SECTION 2 PARTS

DEVICE ID	DESCRIPTION	PART NUMBER	QTY	NOTE	MARKING
TB6	3-3 POINT SCREW TYPE	81-28333-3	1		
TB8, TB9	TB 10-3PT PULL-APART TERM BLK COMPT TB	81-27899	2		
TBT1	6-6PT MAG FIELD TERM BTM ROW	81-28256-3	1		
	BUSSMANN TYPE FNQ FUSE, 2A, 500V	FNQ2	3		
	BUSSMANN TYPE FNQ-R FUSE, 2A, 600V	1A85201H17	3		
	FUSE, CLASS RK-5, 25A, 600V	481A423H34	2		
	LUG, MECHANICAL SET-SCREW, #2AWG-600MCM, 2-HOLE	414A351H04	4		
	LUG, MECHANICAL SET-SCREW, #6AWG-350MCM, 1-HOLE	277C431H01	1		

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APPD	DATE	TITLE NDS 5 480v Switchgear Replacement HU 202 480V SWGR				
K.HOWITT	08/19/2025					
S.O.	L00GLBH	TYPE		CUSTOMER BOM		
		MAGNUM PXR SWITCHGEAR				
PRODUCT CODE	CAGE CODE	REVISION		G.O.	DWG	SHEET
OL	68592	3	A	LOM0036991-002	L00GLBH-P401	8 OF 17


SECTION 3 PARTS

DEVICE ID	DESCRIPTION	PART NUMBER	QTY	NOTE	MARKING
CB3, CB4, CB6	STANDARD 800A/3P MPS6083WEA022SANANDYNNNAX-65DG	MPS6083WEA-65DG	3		
CB5	STANDARD 800A/3P MPS6083WEA052SNMNNNNNNNAX-552H	MPS6083WEA-552H	1		
CBCS3, CBCS4, CBCS6	PXR BKR CELL SWITCH-4 FORM C	1B93090G111	3		
CTN31, CTN32, CTN33, CTN34	SENSOR 4000:1	9253C03H17	4		
LT10, LT13, LT16	C-H E34 LED LIGHT, TRANSFORMER, BLUE, 120VAC	E34TB120LLP06	3		
LT11, LT14, LT17	C-H E34 LED LIGHT, TRANSFORMER, RED, 120VAC	E34TB120LRP06	3		
LT12, LT15, LT18	C-H E34 LED LIGHT, TRANSFORMER, GREEN, 120VAC	E34TB120LGP06	3		
SS3, SS5, SS7	E34 SW 2 POS MM W/COVER	25A4124G80	3		
SS4, SS6, SS8	E34 BREAKER CONTROL SWITCH, GRAY LEVER	25A4124G41	3		
	LUG, MECHANICAL SET-SCREW, #2AWG-600MCM, 2-HOLE	414A351H04	16		
	LUG, MECHANICAL SET-SCREW, #6AWG-350MCM, 1-HOLE	277C431H01	4		

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APPD		DATE		TITLE			
K.HOWITT		08/19/2025		NDS 5 480v Switchgear Replacement HU 202 480V SWGR			
S.O.				TYPE		CUSTOMER BOM	
L00GLBH				MAGNUM PXR SWITCHGEAR			
PRODUCT CODE	CAGE CODE	REVISION		G.O.	DWG	SHEET	
OL	68592	3	A	LOM0036991-002	L00GLBH-P401	9 OF 17	


SECTION 4 PARTS

DEVICE ID	DESCRIPTION	PART NUMBER	QTY	NOTE	MARKING
C1	CONTACTOR, REVERSING, 32A, 240VAC/60HZ, 220VAC/50HZ	CE55FN3BB	1		8019
CB7	STANDARD 800A/3P MPS6083WEA052SANANDYNNAX-65DH	MPS6083WEA-65DH	1		
CB8	STANDARD 800A/3P MPS6083WEA062SANANWYPNNAX-5TRW	MPS6083WEA-5TRW	1		
CB9	STANDARD 800A/3P MPS6083WEA022SANANDYNNAX-65DG	MPS6083WEA-65DG	1		
CB22	FAZ CIRCUIT BREAKER, 10A/1P	FAZ-C10/1-SP	1		8002
CB31, CB50	FAZ BREAKER, 10A/2P, S1	FAZ-C10/2-NA	2		8022, 8073
CBCS7, CBCS8, CBCS9	PXR BKR CELL SWITCH-4 FORM C	1B93090G111	3		
CR1, CR16	UOA-240-AFA AND BASE UVR RELAY	10-10551-1	2		8021, 8072
CR2, CR3, CR4, CR6, CR11, CR12, CR13, CR14	RELAY D7PF 24VDC DPDT FFA (CP)	10-10550-2	8		8031, 8032, 8033, 8029, 8028, 8044, 8043, 8030
CR9	RELAY D7PF 120VAC 4PDT (52-T OTSX)	10-10550-4	1		8038
CR15	RELAY D7PF 120VAC DPDT (52-T OTSY)	10-10550-1	1		8035
CT5	CURRENT TRANSFORMER, 10/10A, MAIN BK	189-010-10	1		
CTN41, CTN42, CTN43	SENSOR 4000:1	9253C03H17	3		
LT19	C-H E34 LIGHT, GREEN 24VDC LED (AUTO)	E34FB197LGP24X	1		7043
LT20, LT24	C-H E34 LIGHT, WHITE 24VDC LED (PLC)	E34FB197LWP24X	2		7042, 7039
LT21, LT23	C-H E34 LIGHT, AMBER 24VDC LED (SA)	E34FB197LAP24X	2		7038, 7040
LT22	C-H E34 LIGHT, BLUE 24VDC LED (MAN)	E34FB197LLP24X	1		7041
LT25, LT30, LT31	C-H E34 LED LIGHT, TRANSFORMER, BLUE, 120VAC	E34TB120LLP06	3		
LT26, LT29, LT32	C-H E34 LED LIGHT, TRANSFORMER, RED, 120VAC	E34TB120LRP06	3		
LT27, LT28, LT33	C-H E34 LED LIGHT, TRANSFORMER, GREEN, 120VAC	E34TB120LGP06	3		
PB1	PB,E34 RED FLUSH W/2NO CNT BLK (ALRM RST)	25A4124G04	1		7044
RES1	TERMINATING RESISTOR, FOR IMPACC NETWORK, 100 OHM	73434FE0FQ	1		
SS9	SERIES 24 SELECTOR SWITCH (43)	90-28351-105	1		7047, 1018
SS10	ELE SWITCH SER-24 (PRF SRC)	90-28351-199	1		7049, 1019
SS11, SS14, SS15	E34 SW 2 POS MM W/COVER	25A4124G80	3		
SS12, SS13, SS16	E34 BREAKER CONTROL SWITCH, GRAY LEVER	25A4124G41	3		
TB7	TB-600V 40A DIN RAIL	TBDT3	1		
TB27	3-3 POINT SCREW TYPE	81-28333-3	1		
TB29, TB30	TB 10-3PT PULL-APART TERM BLK COMPT TB	81-27899	2		
TBT55	6PT MAG FIELD TERM TOP ROW (6)	81-28256-1	1		
TBT56	6PT MAG FIELD TERM BTM ROW (6)	81-28256-3	1		
	LUG, MECHANICAL SET-SCREW, #2AWG-600MCM, 2-HOLE	414A351H04	8		

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C.PATIL	08/19/2025					
APPD	DATE	TITLE NDS 5 480v Switchgear Replacement HU 202 480V SWGR				
K.HOWITT	08/19/2025					
S.O.	L00GLBH	TYPE		CUSTOMER BOM		
		MAGNUM PXR SWITCHGEAR				
PRODUCT CODE	CAGE CODE	REVISION		G.O.	DWG	SHEET
OL	68592	3	A	LOM0036991-002	L00GLBH-P401	10 OF 17


SECTION 4 PARTS

DEVICE ID	DESCRIPTION	PART NUMBER	QTY	NOTE	MARKING
	LUG, MECHANICAL SET-SCREW, #6AWG-350MCM, 1-HOLE	277C431H01	2		
	PSC STD CONFIG FOR XC303 MTM	4-12187-3	1		

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S.O.	L00GLBH		MAGNUM PXR SWITCHGEAR				CUSTOMER BOM								
PRODUCT CODE	CAGE CODE	REVISION		G.O.	DWG	SHEET									
OL	68592	3	A	LOM0036991-002	L00GLBH-P401	11 OF 17									


SECTION 5 PARTS

DEVICE ID	DESCRIPTION	PART NUMBER	QTY	NOTE	MARKING
CB10, CB11, CB13	STANDARD 800A/3P MPS6083WEA022SANANDYNNNAX-65DG	MPS6083WEA-65DG	3		
CB12	STANDARD 800A/3P MPS6083WEA052SNMNNNNNNNAX-552H	MPS6083WEA-552H	1		
CBCS10, CBCS11, CBCS13	PXR BKR CELL SWITCH-4 FORM C	1B93090G111	3		
CTN51, CTN52, CTN53, CTN54	SENSOR 4000:1	9253C03H17	4		
LT34, LT37, LT40	C-H E34 LED LIGHT, TRANSFORMER, BLUE, 120VAC	E34TB120LLP06	3		
LT35, LT38, LT41	C-H E34 LED LIGHT, TRANSFORMER, RED, 120VAC	E34TB120LRP06	3		
LT36, LT39, LT42	C-H E34 LED LIGHT, TRANSFORMER, GREEN, 120VAC	E34TB120LGP06	3		
SS17, SS19, SS21	E34 SW 2 POS MM W/COVER	25A4124G80	3		
SS18, SS20, SS22	E34 BREAKER CONTROL SWITCH, GRAY LEVER	25A4124G41	3		
	LUG, MECHANICAL SET-SCREW, #2AWG-600MCM, 2-HOLE	414A351H04	16		
	LUG, MECHANICAL SET-SCREW, #6AWG-350MCM, 1-HOLE	277C431H01	4		

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								APPD				DATE				TITLE				NDS 5 480v Switchgear Replacement HU 202 480V SWGR							
K.HOWITT				08/19/2025				S.O.				L00GLBH				TYPE				MAGNUM PXR SWITCHGEAR				CUSTOMER BOM			
PRODUCT CODE				CAGE CODE				REVISION				G.O.				DWG				SHEET							
OL				68592				3				A				LOM0036991-002				L00GLBH-P401				12 OF 17			


SECTION 6 PARTS

DEVICE ID	DESCRIPTION	PART NUMBER	QTY	NOTE	MARKING
CB14	STANDARD 800A/3P MPS6083WEA052SNMNNNNNNNAX-552H	MPS6083WEA-552H	1		
CB15, CB16	STANDARD 800A/3P MPS6083WEA022SANANDYNNNAX-65DG	MPS6083WEA-65DG	2		
CB17	STANDARD 800A/3P MPS6083WEA022SNMNNNNNNNAX-5428	MPS6083WEA-5428	1		
CBCS15, CBCS16	PXR BKR CELL SWITCH-4 FORM C	1B93090G111	2		
CTN61, CTN62, CTN63, CTN64	SENSOR 4000:1	9253C03H17	4		
LT43, LT46	C-H E34 LED LIGHT, TRANSFORMER, BLUE, 120VAC	E34TB120LLP06	2		
LT44, LT47	C-H E34 LED LIGHT, TRANSFORMER, RED, 120VAC	E34TB120LRP06	2		
LT45, LT48	C-H E34 LED LIGHT, TRANSFORMER, GREEN, 120VAC	E34TB120LGP06	2		
SS23, SS25	E34 SW 2 POS MM W/COVER	25A4124G80	2		
SS24, SS26	E34 BREAKER CONTROL SWITCH, GRAY LEVER	25A4124G41	2		
	LUG, MECHANICAL SET-SCREW, #2AWG-600MCM, 2-HOLE	414A351H04	16		
	LUG, MECHANICAL SET-SCREW, #6AWG-350MCM, 1-HOLE	277C431H01	4		

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S.O.		L00GLBH		MAGNUM PXR SWITCHGEAR			CUSTOMER BOM								
PRODUCT CODE	CAGE CODE	REVISION		G.O.	DWG	SHEET									
OL	68592	3	A	LOM0036991-002	L00GLBH-P401	13 OF 17									


SECTION 7 PARTS

DEVICE ID	DESCRIPTION	PART NUMBER	QTY	NOTE	MARKING
CB18	STANDARD 800A/3P MPS6083WEA082SANANWYPNNAX-5F8C	MPS6083WEA-5F8C	1		
CB19	STANDARD 800A/3P MPS6083WEA022SANANDYNNAX-65DG	MPS6083WEA-65DG	1		
CB20, CB21, CB23, CB24, CB25, CB26, CB34, CB41, CB42, CB43, CB44, CB45, CB46, CB51	FAZ BREAKER, 10A/1P, PXM	FAZ-C10/1-SP	14		8000, 8001, 8003, 8004, 8005, 8006, 8026, 8057, 8058, 8059, 8060, 8061, 8062, 8076
CB28	FAZ-C20/2-NA-DC,20A/2P,250VDC	120645	1		8013
CB49	FAZ BREAKER, 30A/2P	102173	1		8070
CBCS18, CBCS19	PXR BKR CELL SWITCH-4 FORM C	1B93090G111	2		
COM4	EATON M22 RJ45 SOCKET	M22-RJ45-SA	1		7051
CPT2	CPT, 5KVA, 480/120-240V WITH FUSE PULLER	114B738G32	1		8069
CR5	RELAY D7PF 120VAC DPDT (52-2 OTSY)	10-10550-1	1		8034
CR8	RELAY D7PF 120VAC 4PDT (52-2 OTSX)	10-10550-4	1		8037
CT2	CURRENT TRANSFORMER 3PH 800:5, 2000AF MAX	9253C00H07	1		
CT4	CURRENT TRANSFORMER, 10/10A, MAIN BK	189-010-10	1		
CTN71, CTN72	SENSOR 4000:1	9253C03H17	2		
DS3, DS4	40A NON-FUSED DISCONNECT CPT	45-3100-1	2		8071, 8074
FU21	PULL-FUSEBLOCK, 3P, 30A, 600V	36C1027H12	1		8064
FU22	FUSEBLOCK, PULL,FNQ,3P,30A,W/BLOWNFUSE INDICATOR	36C1027H05	1		8063
LT49, LT53	C-H E34 LED LIGHT, TRANSFORMER, RED, 120VAC	E34TB120LRP06	2		
LT50, LT52	C-H E34 LED LIGHT, TRANSFORMER, BLUE, 120VAC	E34TB120LLP06	2		
LT51, LT54	C-H E34 LED LIGHT, TRANSFORMER, GREEN, 120VAC	E34TB120LGP06	2		
MT2	METER PXM1300MB151 W/ETHMULTI	41-3671-17	1		7050
PR2	TIMEMARK 3-PH POWER MONITOR, 120VAC (47-2)	A2644	1		8075
PS1	PHOENIX PS, QUINT-PS/1AC/24DC-20A, PXR	2866776	1		8025
PT2	3PH VT 480:120 W/O FUSE CLIP	4601B05H31	1		8065
SS27, SS30	E34 BREAKER CONTROL SWITCH, GRAY LEVER	25A4124G41	2		
SS28, SS29	E34 SW 2 POS MM W/COVER	25A4124G80	2		
TB55	3-3 POINT SCREW TYPE	81-28333-3	1		
TB57, TB58	TB 10-3PT PULL-APART TERM BLK COMPT TB	81-27899	2		
TBT158	6-6PT MAG FIELD TERM BTM ROW	81-28256-3	1		
	BUSSMANN TYPE FNQ FUSE, 2A, 500V	FNQ2	3		
	BUSSMANN TYPE FNQ-R FUSE, 2A, 600V	1A85201H17	3		
	FUSE, CLASS RK-5, 25A, 600V	481A423H34	2		
	LUG, MECHANICAL SET-SCREW, #2AWG-600MCM, 2-HOLE	414A351H04	4		

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APPD	DATE	TITLE NDS 5 480v Switchgear Replacement HU 202 480V SWGR				
K.HOWITT	08/19/2025					
S.O.	L00GLBH	TYPE		CUSTOMER BOM		
		MAGNUM PXR SWITCHGEAR				
PRODUCT CODE	CAGE CODE	REVISION		G.O.	DWG	SHEET
OL	68592	3	A	LOM0036991-002	L00GLBH-P401	14 OF 17


SECTION 7 PARTS

DEVICE ID	DESCRIPTION	PART NUMBER	QTY	NOTE	MARKING
	LUG, MECHANICAL SET-SCREW, #6AWG-350MCM, 1-HOLE	277C431H01	1		

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S.O.	L00GLBH		MAGNUM PXR SWITCHGEAR				CUSTOMER BOM								
PRODUCT CODE	CAGE CODE	REVISION		G.O.	DWG	SHEET									
OL	68592	3	A	LOM0036991-002	L00GLBH-P401	15 OF 17									


SECTION 8 PARTS

DEVICE ID	DESCRIPTION	PART NUMBER	QTY	NOTE	MARKING
	LUG, MECHANICAL SET-SCREW, #6AWG-350MCM, 1-HOLE	277C431H01	1		

							ISSUED FOR CONSTRUCTION - THE INFORMATION ON THIS DOCUMENT IS SUITABLE FOR USE IN ESTABLISHING FINAL INSTALLATION AND CONSTRUCTION DETAILS.								
							DFTR	DATE	THE INFORMATION ON THIS DOCUMENT IS CREATED BY EATON CORPORATION. IT WAS DISCLOSED IN CONFIDENCE AND IS ONLY TO BE USED FOR THE PURPOSE IN WHICH IT IS SUPPLIED.						
							C.PATIL	08/19/2025							
							APPD	DATE	TITLE	NDS 5 480v Switchgear Replacement HU 202 480V SWGR					
S.O.		L00GLBH		TYPE			MAGNUM PXR SWITCHGEAR		CUSTOMER BOM						
PRODUCT CODE	CAGE CODE	REVISION		G.O.	DWG	SHEET									
OL	68592	3	A	LOM0036991-002	L00GLBH-P401	16 OF 17									

LOOSE PARTS

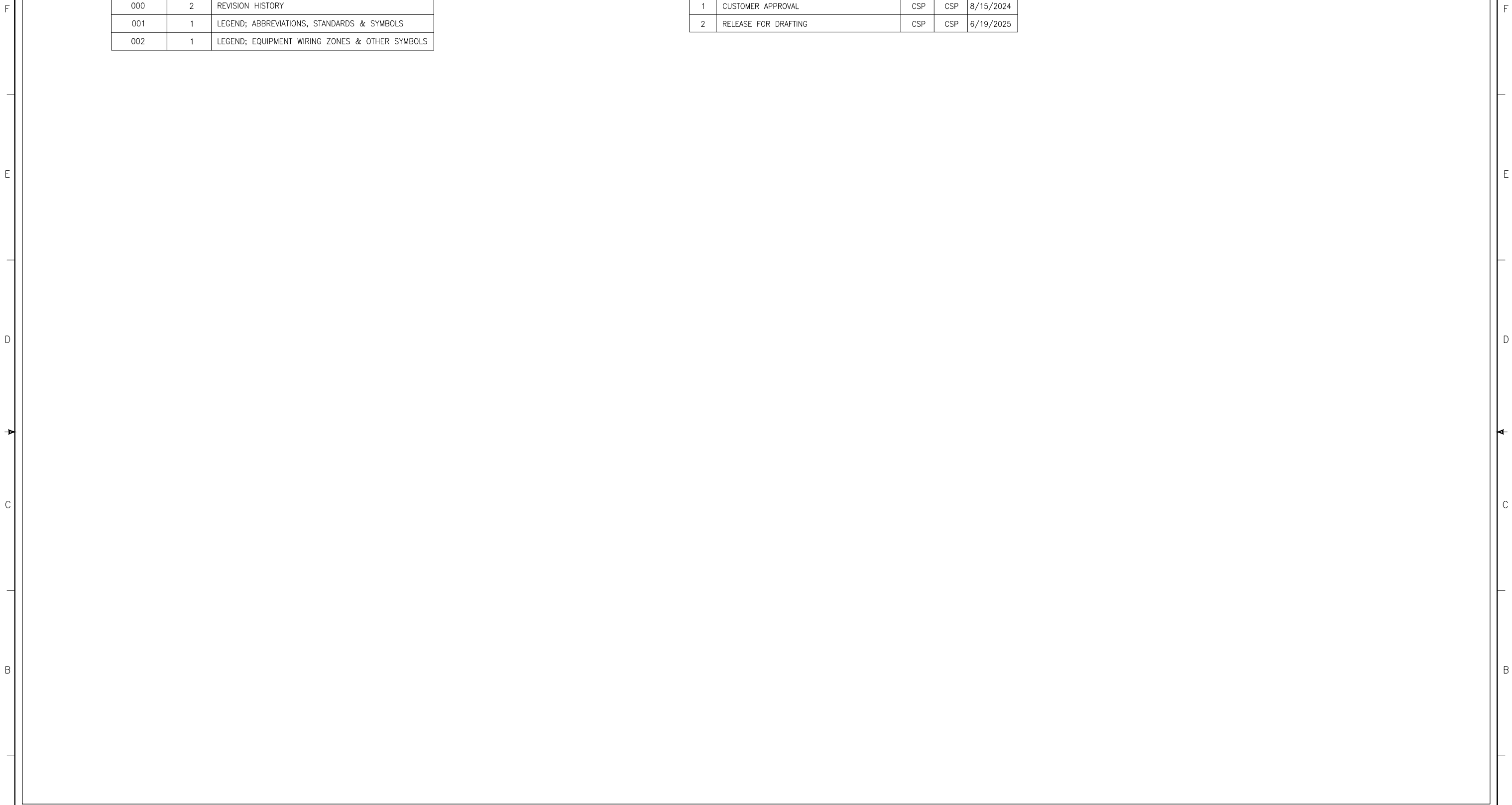
DESCRIPTION	PART NUMBER	QTY	NOTE
SPARE BUSSMANN TYPE FNQ-R FUSE, 2A, 600V	1A85201H17	6	
ANSI-61 PAINT IN 12 OZ SPRAY CAN	32220BM00S	2	
SPARE FUSE, FRS-R-25 FUSE	481A423H34	4	
MAGNETIC COVER,MAG HD BKR CELL	9250C50G02	1	
MAGNUM REMOTE RACKING DEVICE (MRR1000) W/ US PWR CORD, STORAGE CASE	9259C80G02	1	
C-H E34 LED LIGHT, TRANSFORMER, GREEN, 120VAC	E34TB120LGP06	2	
C-H E34 LED LIGHT, TRANSFORMER, BLUE, 120VAC	E34TB120LLP06	2	
C-H E34 LED LIGHT, TRANSFORMER, RED, 120VAC	E34TB120LRP06	2	
SPARE BUSSMANN TYPE FNQ FUSE, 2A, 500V	FNQ2	6	
MAGNUM DS HDW KIT 3/PH	MAZA000GCB	2	
MAGNUM DS HDW KIT NEUTRAL 3/PH	MAZB000G0C	2	
MAGNUM DS HDW KIT STRUCTURE	MAZC000G0A	2	
SPREADER BAR FOR 3-P MDS/MDSX	MAZD000GAB	1	
STANDARD OVERHEAD HOIST	MAZD000GCA	1	
MAGNUM DS LEVERING TOOL	MAZE000G0A	1	
MPS6083WEA022SANANDYNNNAX-65DG	MPS6083WEA-65DG	1	
COMMUNICATION CABLE U050010	U050-010	1	

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C.PATIL		08/19/2025					
APPD		DATE		TITLE			
K.HOWITT		08/19/2025		NDS 5 480v Switchgear Replacement HU 202 480V SWGR			
S.O.				TYPE		CUSTOMER BOM	
L00GLBH				MAGNUM PXR SWITCHGEAR			
PRODUCT CODE	CAGE CODE	REVISION		G.O.	DWG	SHEET	
OL	68592	3	A	LOM0036991-002	L00GLBH-P401	17 OF 17	

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REVISION STATUS		SHEET DESCRIPTION
SHEET	REV	
000	2	REVISION HISTORY
001	1	LEGEND; ABBREVIATIONS, STANDARDS & SYMBOLS
002	1	LEGEND; EQUIPMENT WIRING ZONES & OTHER SYMBOLS

REVISION HISTORY				
REV	REVISION DESCRIPTION	BY	APPD	DATE
1	CUSTOMER APPROVAL	CSP	CSP	8/15/2024
2	RELEASE FOR DRAFTING	CSP	CSP	6/19/2025



. . . .	Issued For Construction	DFTR CHETAN PATIL	DATE 06/19/2025	THE INFORMATION ON THIS DOCUMENT WAS CREATED BY EATON CORPORATION. IT WAS DISCLOSED IN CONFIDENCE AND IS ONLY TO BE USED FOR THE PURPOSE IN WHICH IT WAS SUPPLIED.	
	The information on this document is suitable for use in establishing final installation and construction details.	APPD CHETAN PATIL	DATE 06/19/2025		TITLE NDS 5 480v Switchgear Replacement HU 2024-27 480V SWGR
	CAGE CODE 68592	REVISION 2	PRODUCT CODE OL	S.O. LOOGLBH	TYPE MAGNUM PXR SWITCHGEAR
					LEGEND G.O. LOM0036991-002 DWG LOOGLBH-E SHEET 000

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ABBREVIATIONS

BREAKER INTERNALS

DPS	DIGITRIP POWER SUPPLY
ST	SHUNT TRIP COIL (TRIPS BREAKER)
SR	SPRING RELEASE (CLOSES BREAKER)
MOT	MOTOR (CHARGES SPRING)
SEN	SENSOR (FAULT DETECTOR)
AMPT	AMPTECTOR (TRIP UNIT TYPE)
T500	DIGITRIP RMS 500 TRIP UNIT
T600	DIGITRIP RMS 600 TRIP UNIT
T700	DIGITRIP RMS 700 TRIP UNIT
T800	DIGITRIP RMS 800 TRIP UNIT
PWR	POWER RELAY MODULE
NMC	NO MANUAL CLOSE
LCS	LIMIT CHECK SWITCH
LS	LIMIT SWITCH
UV	UNDERVOLTAGE RELEASE
OC	OPERATIONS COUNTER
RESET	RESET COIL FOR OTS SWITCH
OTS	OVERCURRENT TRIP SWITCH

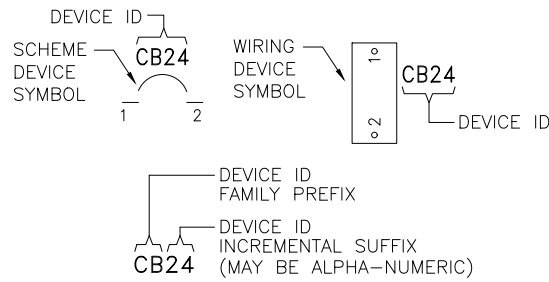
GENERAL

AEM	ASSEMBLIES ELECTRONIC MONITOR
AS	AMMETER SWITCH
AM	AMMETER
AMR	AMMETER RELAY
CS	CONTROL SWITCH
CPT	CONTROL POWER TRANSFORMER
CT	CURRENT TRANSFORMER
GFR	GROUND FAULT RELAY
GFREC	GROUND FAULT RECEPTACLE
GND	GROUND
HRG	HIGH RESISTANCE GROUNDED
IMPACC	INTEGRATED MONITORING PROTECTION AND CONTROL COMMUNICATIONS
IQ	IQ DATA METERING SYSTEM
IQDP	IQ DP 4000 METERING SYSTEM
MINT	MASTER INCOM NETWORK TRANSLATOR
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NGR	NEUTRAL GROUNDING RESISTOR
PF	POWER FACTOR METER
PONI	PRODUCT OPERATED NETWORK INTERFACE
SE	SERVICE ENTRANCE
TS	TEST SWITCH
TSF	TIME STAMP FILTER
UL	UNDERWRITERS LABORATORY
VAR	VARMETER
VHM	VAR HOUR METER
VHDM	VAR HOUR DEMAND METER
VM	VOLTMETER
VMR	VOLTMETER RELAY
VS	VOLTMETER SWITCH
VT	VOLTAGE TRANSFORMER
WHM	WATTHOUR METER
WHDM	WATTHOUR DEMAND METER
XDR	TRANSDUCER
XFMR	TRANSFORMER

BREAKER DESCRIPTIONS

PROV	DOES NOT CONTAIN A BREAKER. BUT CAN RECEIVE A BREAKER OF SPECIFIED RATING. NO CONVERSION WORK REQUIRED.
SPACE	DOES NOT CONTAIN A BREAKER, BUT CAN BE CONVERTED FOR USE AS A BREAKER. CONTAINS BUS BEHIND COMPARTMENT, BUT CELL CONVERSION WILL BE REQUIRED FOR FUTURE BREAKER.
BREAKER STORAGE	MAY STORE A BREAKER AND CANNOT BE CONVERTED FOR USE AS AN ACTIVE BREAKER. CAN ONLY BE USED FOR STORAGE OF SPARE BREAKER

DEVICE IDENTIFICATION



DEVICE ID FAMILY PREFIX DEFINITION

ANN	ANNUNCIATOR
ATX	AUTOTRANSFORMER
BUS	BUS
C	CONTACTOR
CAP	CAPACITOR - POWER
CB	BREAKER
COM	COMMUNICATION
CPT	CPT RELAY
CR	RELAY
CT	CURRENT TRANSFORMER
CTD	CAPACITOR TRIP DEVICE
D	DIODE
DS	SWITCH - DISCONNECT
FAN	FUSE - MV POWER
FU	FUSE AND FUSE BLOCK & HOLDER
GFR	GROUND FAULT OPTION
GRD	GROUND BUS
GRF	GROUND FAULT RELAY AND MONITOR
GRS	GROUND FAULT SENSOR
HTR	HEATER
JMP	JUMPER
K	KEY INTERLOCK
LOR	RELAY - LOCKOUT
LS	RELAY - LIMIT SWITCH, LIMIT
LT	LIGHT
MISC	MISC COMPONENTS
MS	STARTER
MT	METER
OL	OVERLOAD RELAY
PB	PUSHBUTTON
PDB	POWER DIST BLOCK
PLC	PLC
POT	POTENTIOMETER
PR	RELAY - PROTECTIVE
PS	POWER SUPPLY/CONVERTERS/CONDITIONING
PT	POTENTIAL TRANSFORMER
REC	RECEPTACLE
RES	RESISTOR - POWER
SS	SWITCH, SELECTOR
STB	STAB
SU	SURGE SUPPRESSOR
T	REACTOR
TB	TERMINAL BLOCK
TERM	TERMINAL
TR	RELAY - TIMING
TS	SWITCH, TEST
TH	THERMOSTAT, HUMIDISTAT
TX	DISTRIBUTION TRANSFORMER
VFD	AFD (ADJUST. FREQ. DRIVE)
XD	TRANSDUCER

ANSI/IEEE DEVICE FUNCTION NUMBER LEGEND

FUNCT #	DESCRIPTION
1	MASTER CONTROL DEVICE
2	TIME DELAY STARTING OR CLOSING RELAY
4	MASTER CONTACTOR
5	SHUTDOWN DEVICE
6	STARTING CIRCUIT BREAKER
8	CONTROL POWER DISCONNECTING DEVICE
11	MULTI-FUNCTION DEVICE
13	SYNCHRONOUS-SPEED DEVICE
15	SPEED OR FREQUENCY MATCHING DEVICE
16	DATA COMMUNICATIONS DEVICE
19	STARTING-TO-RUNNING TRANSITION CONTACTOR
21	DISTANCE RELAY
23	TEMPERATURE CONTROL DEVICE
25	SYNCHRONISM CHECK DEVICE
26	APPARATUS THERMAL DEVICE
27	UNDERVOLTAGE RELAY
30	ANNUNCIATOR RELAY
32	DIRECTIONAL POWER RELAY
33	POSITION SWITCH
37	UNDERCURRENT OR UNDERPOWER RELAY
38	BEARING PROTECTIVE DEVICE
40	FIELD RELAY
41	FIELD CIRCUIT BREAKER
43	MANUAL TRANSFER SWITCH
46	REVERSE PHASE BALANCE CURRENT RELAY
47	PHASE SEQUENCE VOLTAGE RELAY
48	INCOMPLETE SEQUENCE RELAY
49	MACHINE OR TRANSFORMER THERMAL RELAY
50	INSTANTANEOUS OVERCURRENT RELAY
51	AC TIME OVERCURRENT RELAY
52	AC CIRCUIT BREAKER
53	EXCITER OR DC GENERATOR RELAY
55	POWER FACTOR RELAY
56	FIELD APPLICATION RELAY
59	OVERVOLTAGE RELAY
60	VOLTAGE BALANCE RELAY
61	CURRENT BALANCE RELAY
62	TIME DELAY STOPPING OR OPENING RELAY
63	PRESSURE SENSING DEVICE
64	GROUND DETECTOR RELAY
67	AC DIRECTIONAL OVERCURRENT RELAY
69	PERMISSIVE CONTROL DEVICE
74	ALARM RELAY
78	PHASE-ANGLE MEASURING OR OUT-OF-STEP PROTECTIVE RELAY
81	FREQUENCY RELAY
83	AUTOMATIC SELECTIVE CONTROL OR TRANSFER RELAY
85	CARRIER OR PILOT-WIRE RECEIVER RELAY
86	LOCKOUT RELAY
87	DIFFERENTIAL PROTECTIVE RELAY
90	REGULATING DEVICE
94	TRIPPING OR TRIP-FREE RELAY
16S	COMMUNICATIONS DEVICE, SERIAL
16E	COMMUNICATIONS DEVICE, ETHERNET
47N	NEGATIVE SEQUENCE VOLTAGE
47/27	PHASE-SEQUENCE UNDERVOLTAGE RELAY
50G	INSTANTANEOUS OVERCURRENT, GROUND
50/51	INSTANTANEOUS & TIMED OVERCURRENT
51G	TIMED OVERCURRENT, GROUND
51N	TIMED OVERCURRENT, NEUTRAL
51V	TIMED OVERCURRENT W/VOLTAGE RESTRAINT
52MOC	BREAKER MECHANISM OPERATED CONTACT
52TOC	BREAKER, TRUCK-OPERATED CONTACT
810	OVER-FREQUENCY
81U	UNDER-FREQUENCY
87B	DIFFERENTIAL, BUS
87G	DIFFERENTIAL, GENERATOR
87L	DIFFERENTIAL, LINE
87M	DIFFERENTIAL, MOTOR
87T	DIFFERENTIAL, TRANSFORMER

AUXILIARY CONTACT LETTER DESIGNATIONS

LETTER	DESCRIPTION
a	OPEN CONTACT WHEN DEVICE IS IN THE NON-OPERATED OR DE-ENERGIZED STATE.
b	CLOSED CONTACT WHEN DEVICE IS IN THE NON-OPERATED OR DE-ENERGIZED STATE.

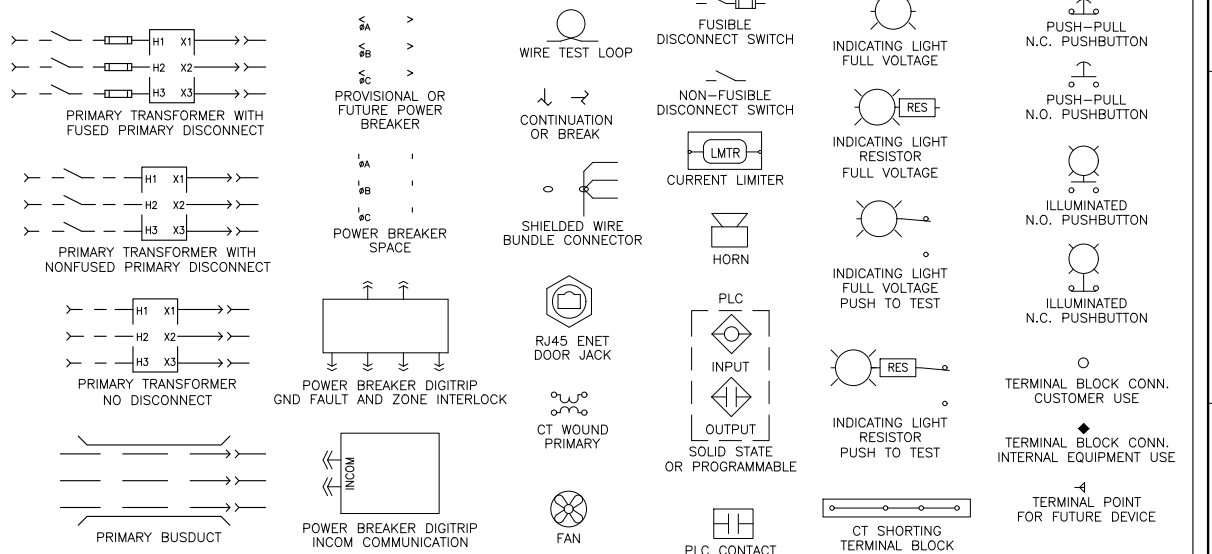
POSITION SWITCH OPERATION (DEVICE 33)

SHOWN WITH BREAKER DISCONNECTED OR IN TEST POSITION

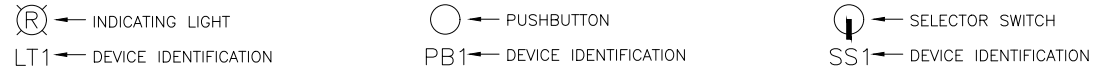
NEMA / IEEE CONFORMANCE STATEMENT PERTAINING TO GRAPHIC SYMBOLS FOR ELECTRICAL DRAWINGS:

IT IS EATON'S PRACTICE TO CONFORM TO STANDARDS ESTABLISHED BY THE NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION (NEMA). IF NEMA DOESN'T HAVE A PARTICULAR SYMBOL OR IF IT IS NOT SHOWN IN THE THIS DOCUMENTATION, REFER TO THE AMERICAN NATIONAL STANDARDS (ANSI Y32.2, IEEE STD 315).

NONSTANDARD SYMBOLS

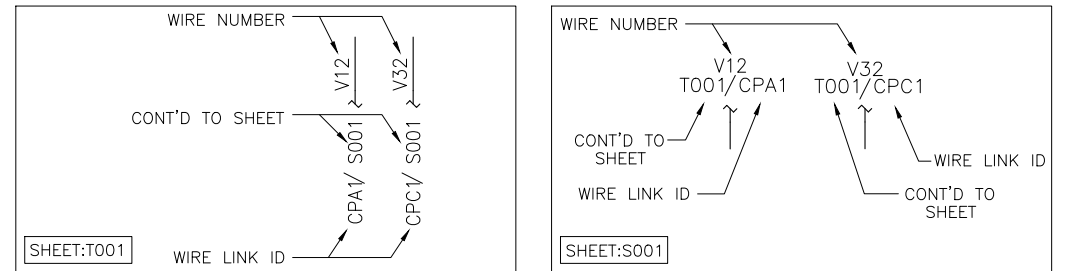


GRAPHICAL SYMBOLS FOR ELECTRICAL DEVICES ON MECHANICAL (LAYOUT) DRAWINGS



SCHEMATIC WIRE LINK (SIGNAL CROSS REF) DEFINITION

WIRE LINK OR SIGNAL CROSS REFERENCE SYMBOLS TIE SPLIT OR BROKEN WIRE SEGMENTS TOGETHER THAT SPAN DIFFERENT LOCATIONS WITHIN A SHEET OR ACROSS DIFFERENT SHEETS.



-THE WIRE LINK ID IS UNIQUE FOR PAIRED WIRE LINK SYMBOLS.
-PAIRED WIRE LINK SYMBOLS WILL HAVE THE SAME WIRE NUMBER.

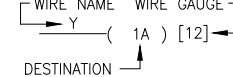
SYMBOL(S):

\$ = RING TONGUE TERMINALS REQUIRED

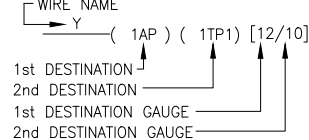
(NS) = NON-STANDARD DEVICE

TRES = INCOM TERMINATING RESISTOR S#: 73434FE0FQ

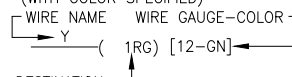
SINGLE WIRE CONNECTION:



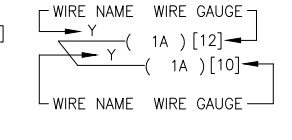
DOUBLE WIRE CONNECTION:



SINGLE WIRE CONNECTION:



DOUBLE WIRE CONNECTION (ALTERNATIVE):



WIRE COLOR DEFINITIONS

WIRE COLOR DEFINITIONS	WIRE SIZE DEFINITIONS
BK = BLACK	16 = 16AWG
BL = BLUE	14 = 14AWG
BN = BROWN	12 = 12AWG
GN = GREEN	10 = 10AWG
GY = GRAY	8 = 8AWG
OR = ORANGE	6 = 6AWG
RD = RED	4 = 4AWG
TN = TAN	2 = 2AWG
VT = VIOLET	1 = 1AWG
WT = WHITE	1/0 = 1/0AWG
YE = YELLOW	2/0 = 2/0AWG
	4/0 = 4/0AWG
	500 = 500KCMIL

Issued For Construction

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CAGE CODE 68592

DFTR	CHETAN PATIL	DATE	06/19/2025
APPD	CHETAN PATIL	DATE	06/19/2025
PRODUCT CODE	OL	S.O.	LOOGLBH
REVISION	1		

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TITLE		NDS 5 480v Switchgear Replacement HU 2024-27	
TDR		480V SWGR	
TYPE		MAGNUM PXR SWITCHGEAR	
DWG		LOOGLBH-E	
SHEET		001	

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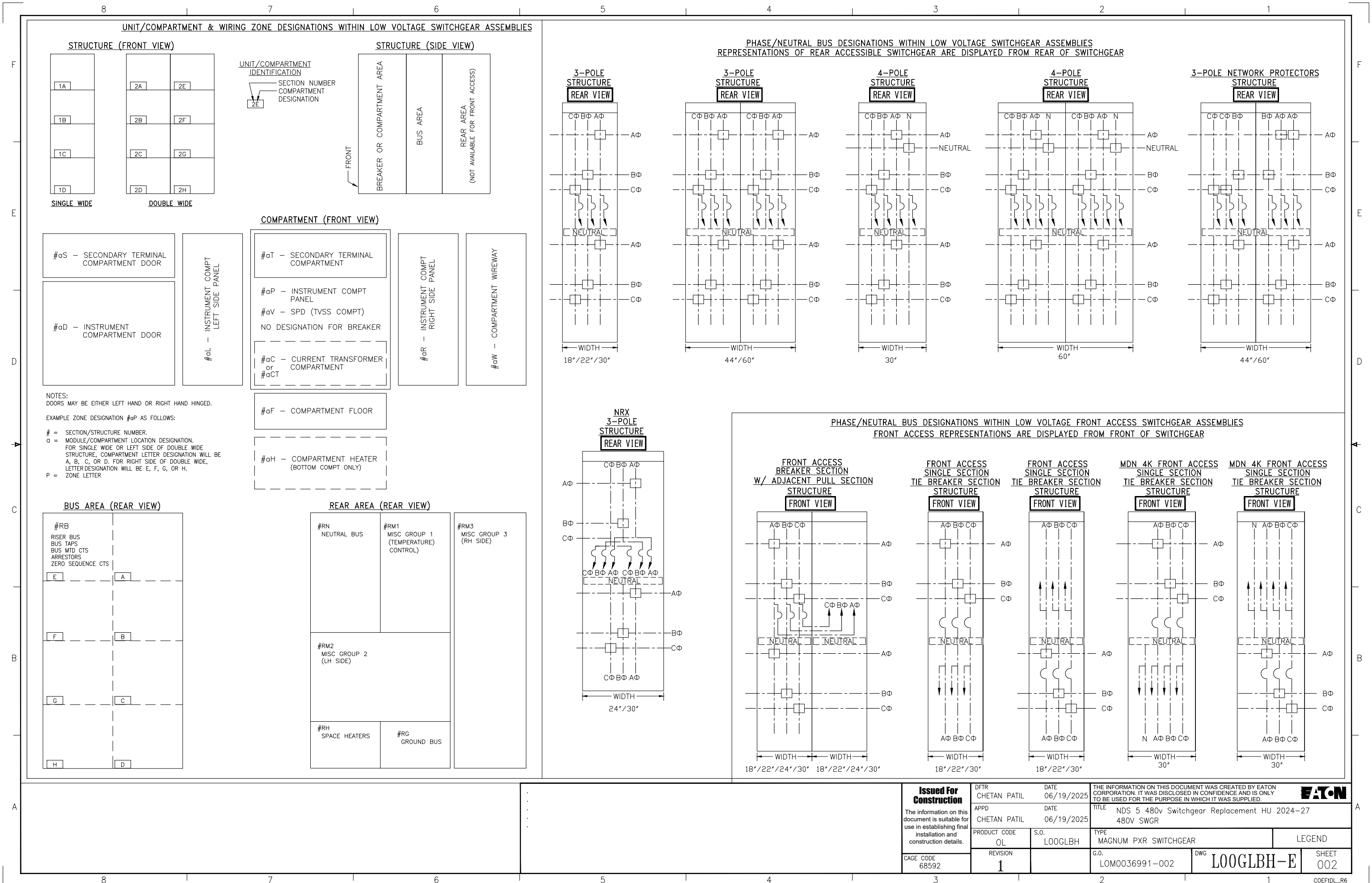
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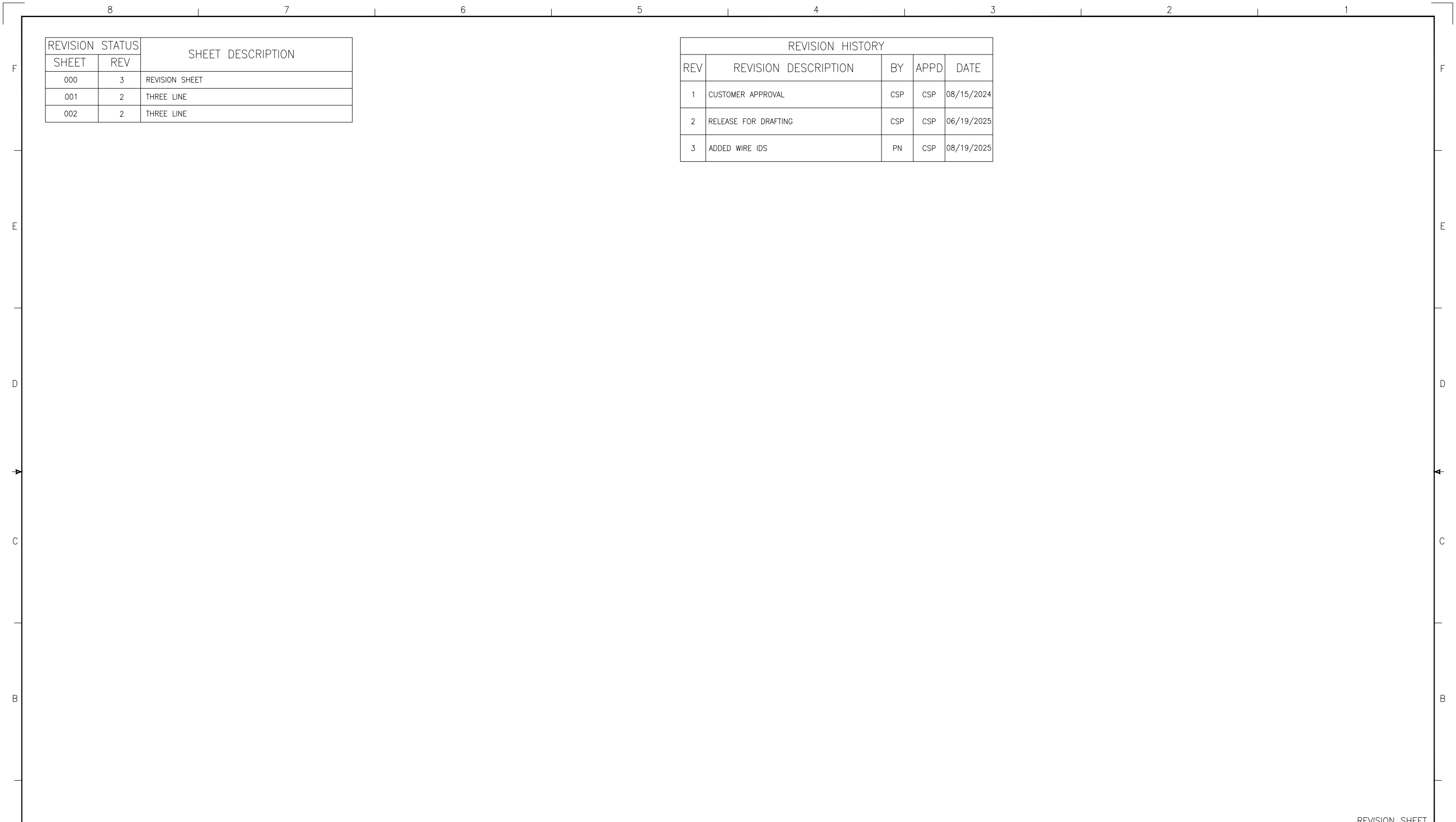
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	PRODUCT CODE OL	S.O. LOOGLBH	TITLE NDS 5 480v Switchgear Replacement HU 2024-27 480V SWGR
	REVISION 1	TYPE MAGNUM PXR SWITCHGEAR	LEGEND
	CAGE CODE 68592	G.O. LOM0036991-002	DWG LOOGLBH-E

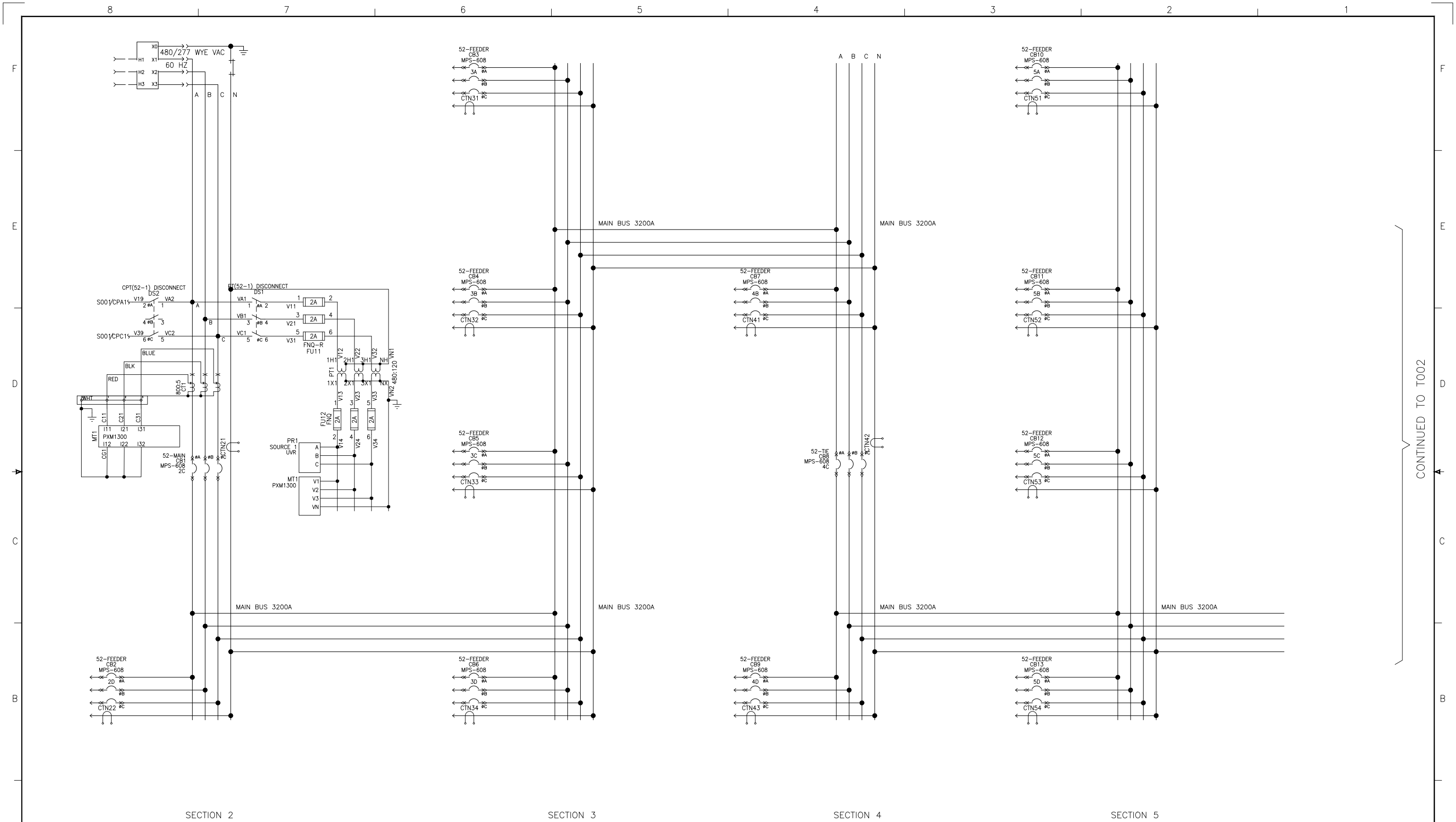


REVISION STATUS		SHEET DESCRIPTION
SHEET	REV	
000	3	REVISION SHEET
001	2	THREE LINE
002	2	THREE LINE

REVISION HISTORY				
REV	REVISION DESCRIPTION	BY	APPD	DATE
1	CUSTOMER APPROVAL	CSP	CSP	08/15/2024
2	RELEASE FOR DRAFTING	CSP	CSP	06/19/2025
3	ADDED WIRE IDS	PN	CSP	08/19/2025

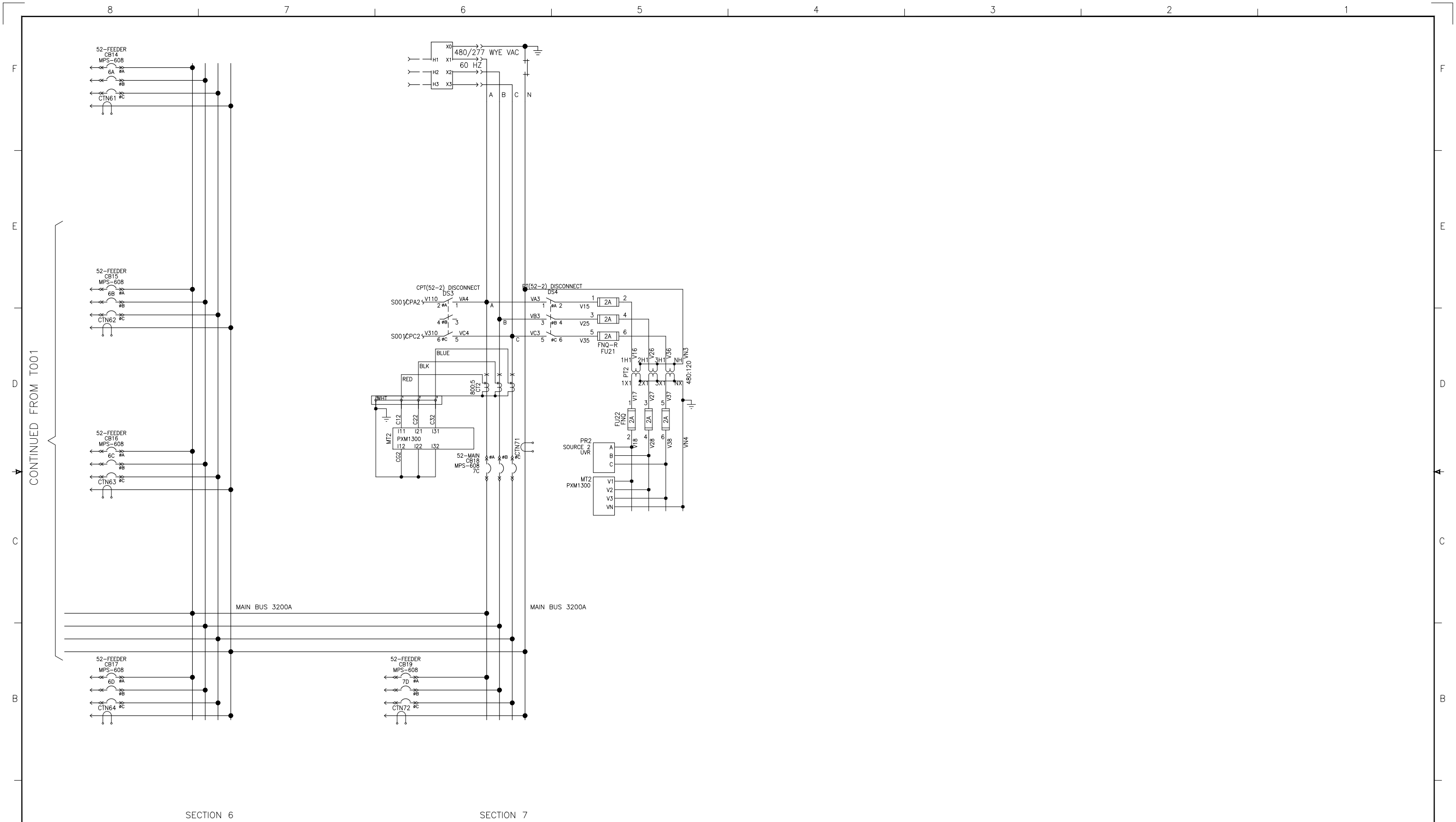
REVISION SHEET

<p>Issued For Construction</p> <p>The information on this document is suitable for use in establishing final installation and construction details.</p>	DFTR CHETAN PATIL	DATE 06/19/2025	THE INFORMATION ON THIS DOCUMENT WAS CREATED BY EATON CORPORATION. IT WAS DISCLOSED IN CONFIDENCE AND IS ONLY TO BE USED FOR THE PURPOSE IN WHICH IT WAS SUPPLIED.	
	APPD CHETAN PATIL	DATE 06/19/2025	TITLE NDS 5 480v Switchgear Replacement HU 2024-27 480V SWGR	
	PRODUCT CODE OL	S.O. LOOGLBH	TYPE MAGNUM PXR SWITCHGEAR	
	CAGE CODE 68592	REVISION 3	G.O. LOM0036991-002	DWG LOOGLBH-T

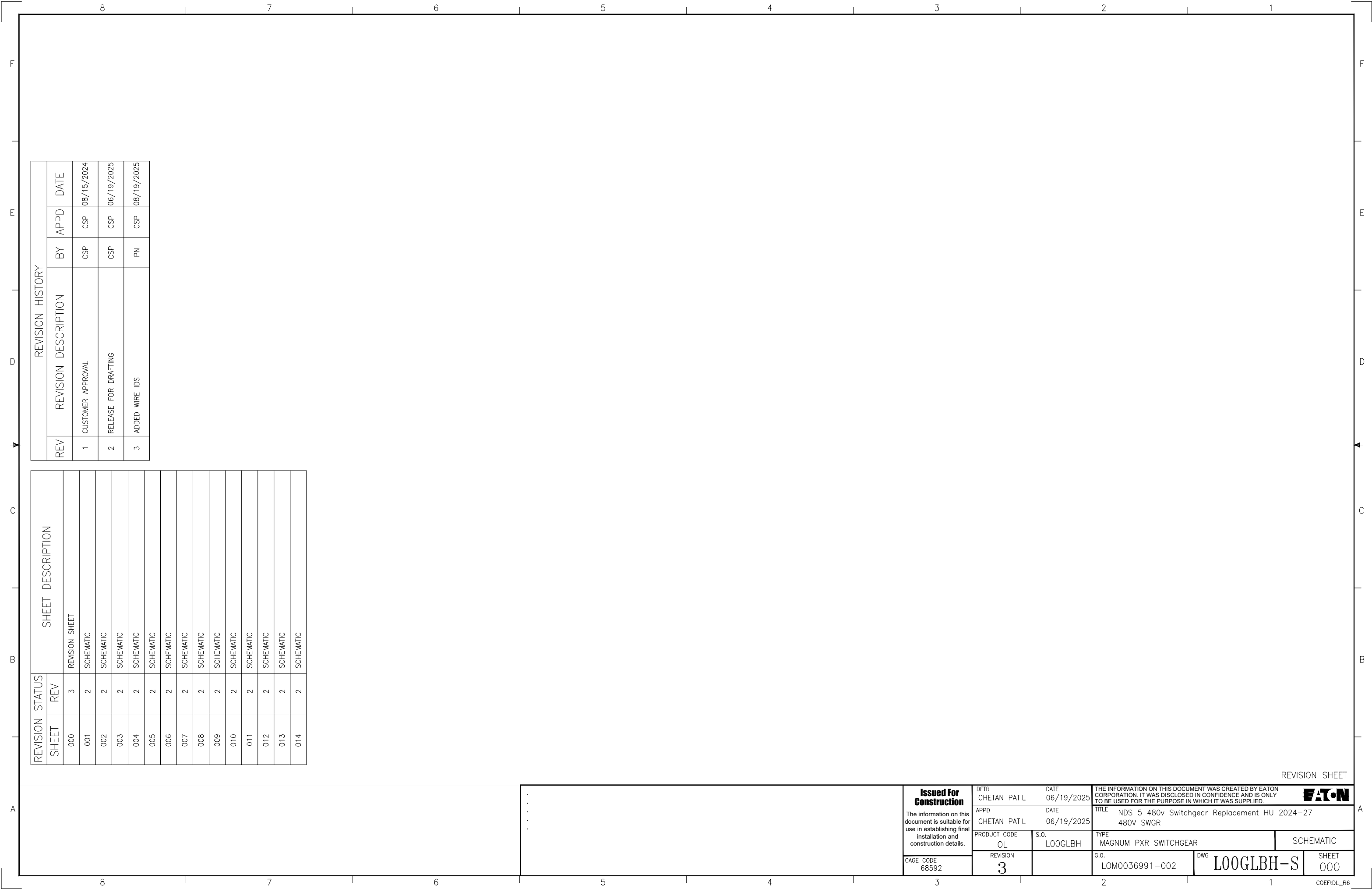


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A		Issued For Construction	DFTR CHETAN PATIL	DATE 06/19/2025	THE INFORMATION ON THIS DOCUMENT WAS CREATED BY EATON CORPORATION. IT WAS DISCLOSED IN CONFIDENCE AND IS ONLY TO BE USED FOR THE PURPOSE IN WHICH IT WAS SUPPLIED.	EATON	
		The information on this document is suitable for use in establishing final installation and construction details.	APPD CHETAN PATIL	DATE 06/19/2025			TITLE NDS 5 480v Switchgear Replacement HU 2024-27 480V SWGR
			PRODUCT CODE OL	S.O. LOOGLBH	TYPE MAGNUM PXR SWITCHGEAR		THREE-LINE
			CAGE CODE 68592	REVISION 2	G.O. LOM0036991-002	DWG LOOGLBH-T	SHEET 001




<p>Issued For Construction</p> <p>The information on this document is suitable for use in establishing final installation and construction details.</p> <p>CAGE CODE 68592</p>	<p>DFTR CHETAN PATIL</p> <p>DATE 06/19/2025</p>	<p>THE INFORMATION ON THIS DOCUMENT WAS CREATED BY EATON CORPORATION. IT WAS DISCLOSED IN CONFIDENCE AND IS ONLY TO BE USED FOR THE PURPOSE IN WHICH IT WAS SUPPLIED.</p>			
	<p>APPD CHETAN PATIL</p> <p>DATE 06/19/2025</p>	<p>TITLE NDS 5 480v Switchgear Replacement HU 2024-27 480V SWGR</p>			
	<p>PRODUCT CODE OL</p> <p>REVISION 2</p>	<p>S.O. LOOGLBH</p>	<p>TYPE MAGNUM PXR SWITCHGEAR</p>		<p>THREE-LINE</p>
	<p>G.O. LOM0036991-002</p>	<p>DWG LOOGLBH-T</p>	<p>SHEET 002</p>		

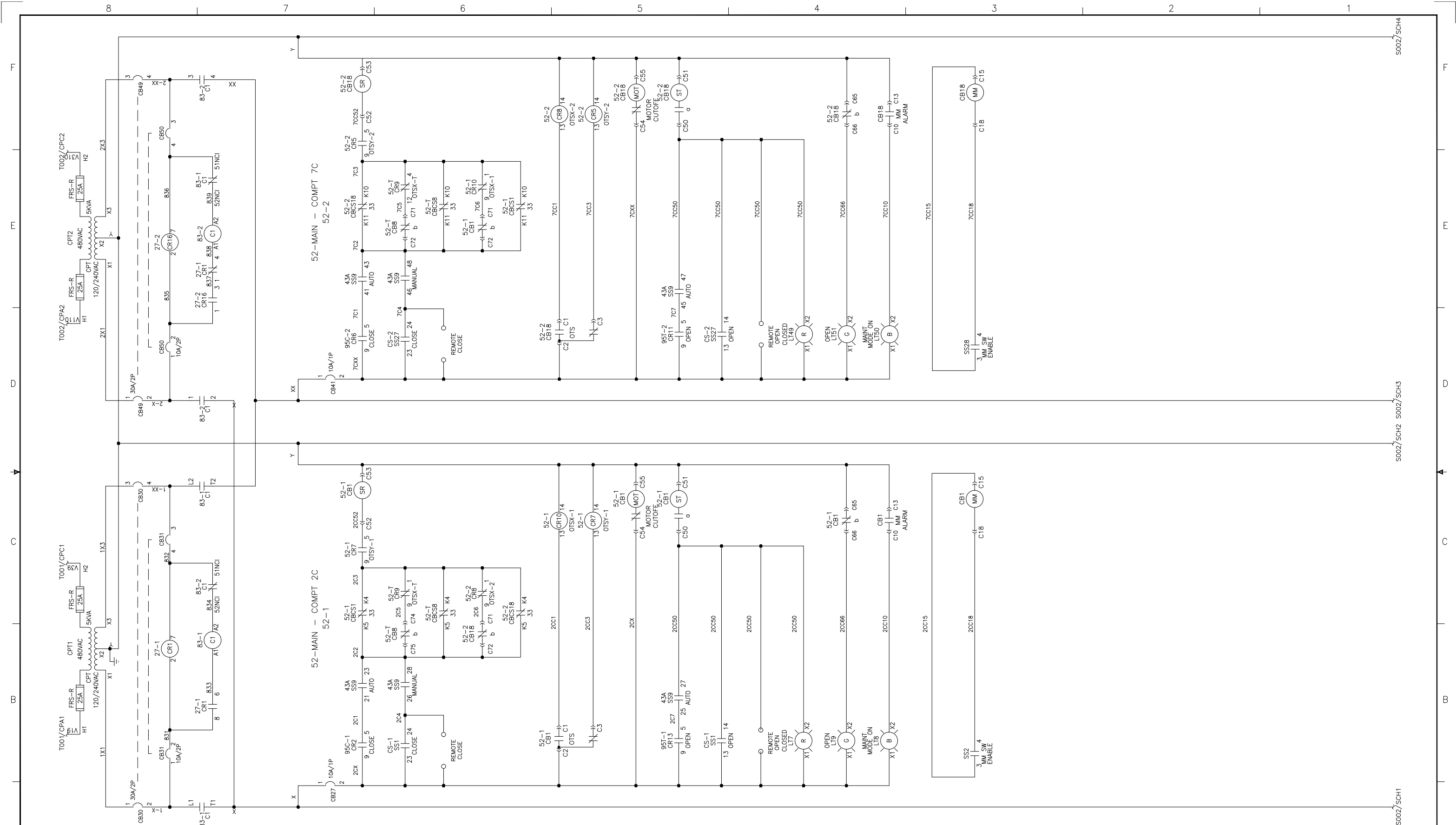


REVISION HISTORY				
REV	REVISION DESCRIPTION	BY	APPD	DATE
1	CUSTOMER APPROVAL	CSP	CSP	08/15/2024
2	RELEASE FOR DRAFTING	CSP	CSP	06/19/2025
3	ADDED WIRE IDS	PN	CSP	08/19/2025

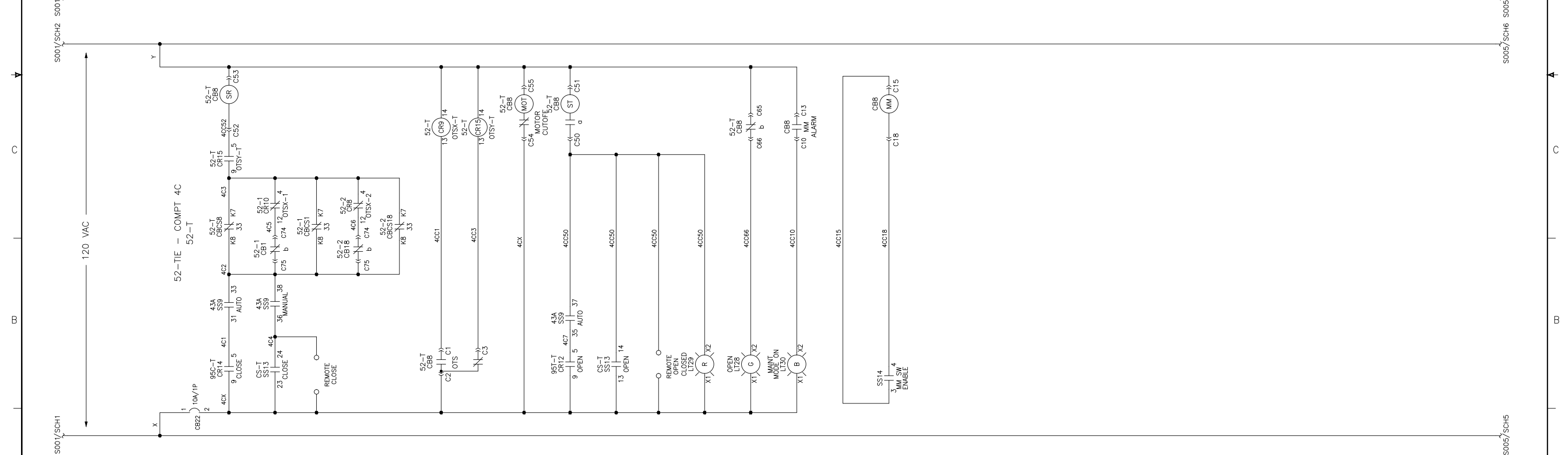
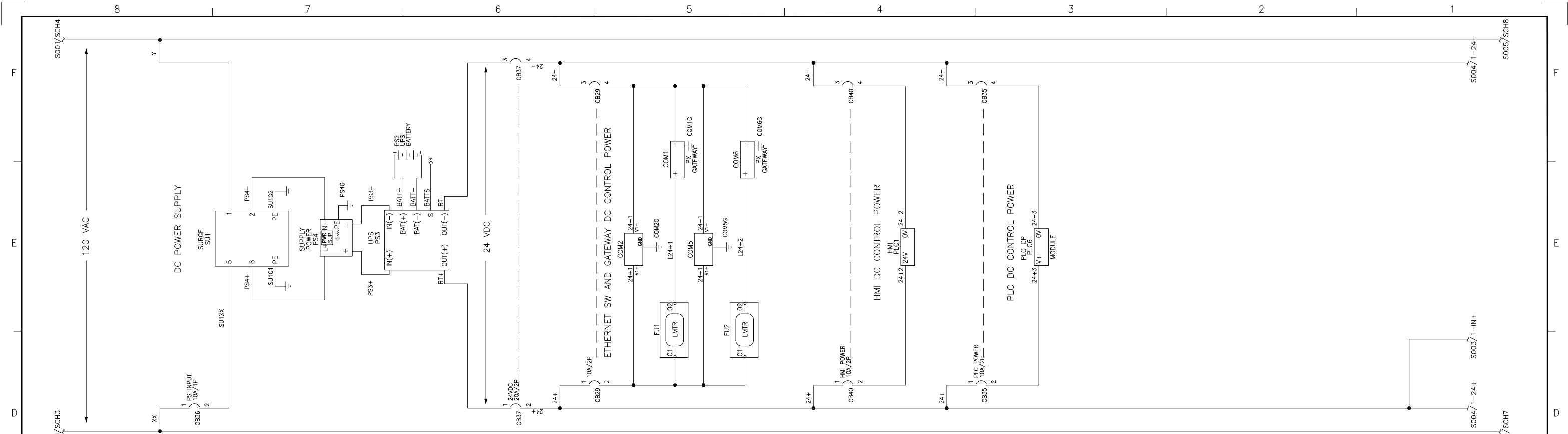
REVISION STATUS		SHEET DESCRIPTION	
SHEET	REV	SHEET	REV
000	3	REVISION SHEET	
001	2	SCHEMATIC	
002	2	SCHEMATIC	
003	2	SCHEMATIC	
004	2	SCHEMATIC	
005	2	SCHEMATIC	
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007	2	SCHEMATIC	
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010	2	SCHEMATIC	
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012	2	SCHEMATIC	
013	2	SCHEMATIC	
014	2	SCHEMATIC	

REVISION SHEET

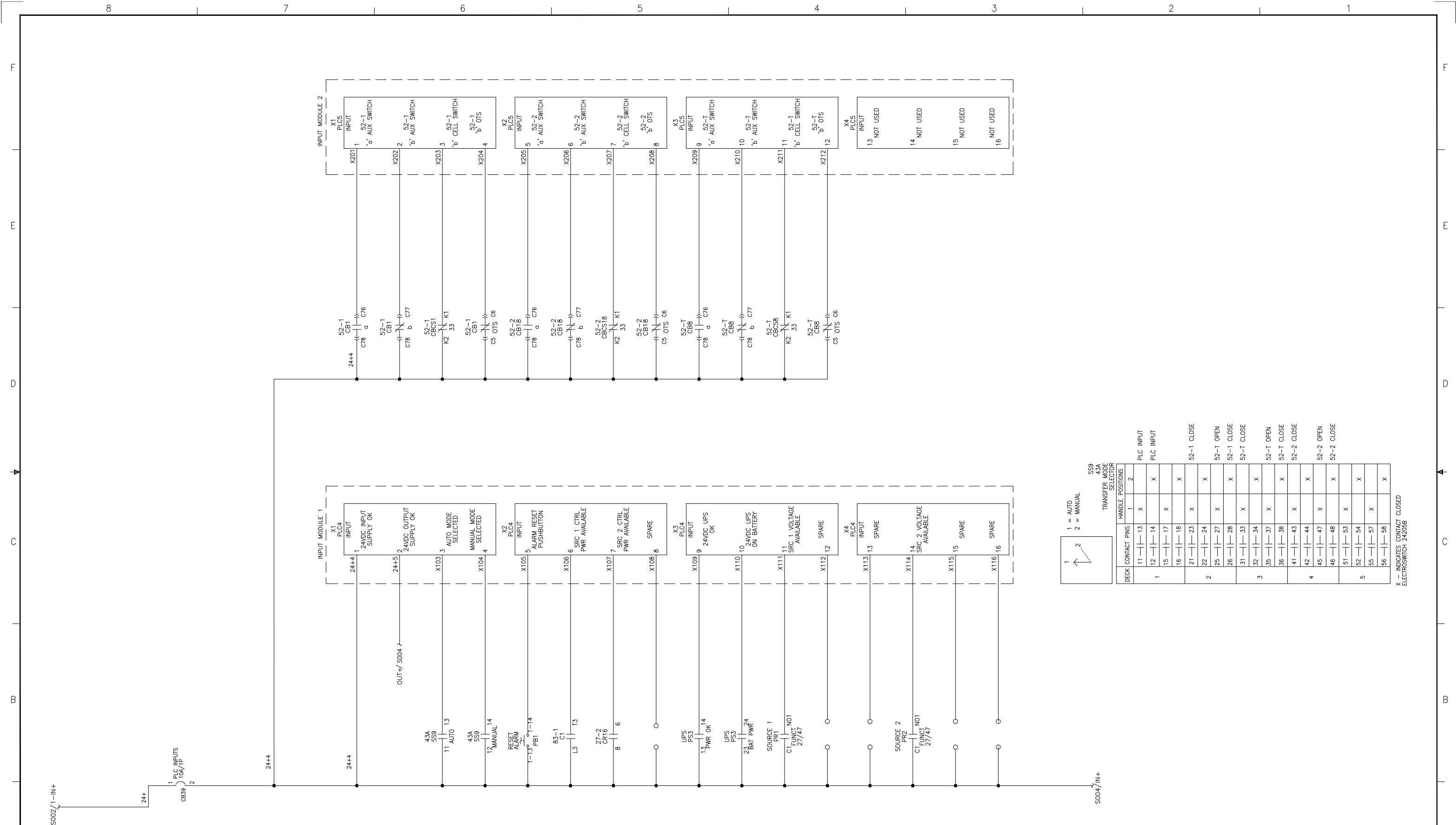
<p>Issued For Construction</p> <p>The information on this document is suitable for use in establishing final installation and construction details.</p>	DFTR CHETAN PATIL	DATE 06/19/2025	<p>THE INFORMATION ON THIS DOCUMENT WAS CREATED BY EATON CORPORATION. IT WAS DISCLOSED IN CONFIDENCE AND IS ONLY TO BE USED FOR THE PURPOSE IN WHICH IT WAS SUPPLIED.</p> 	
	APPD CHETAN PATIL	DATE 06/19/2025	<p>TITLE NDS 5 480v Switchgear Replacement HU 2024-27 480V SWGR</p>	
	PRODUCT CODE OL	S.O. LOOGLBH	TYPE MAGNUM PXR SWITCHGEAR	SCHEMATIC
	CAGE CODE 68592	REVISION 3	G.O. LOM0036991-002	DWG LOOGLBH-S



<p>Issued For Construction</p> <p>The information on this document is suitable for use in establishing final installation and construction details.</p> <p>CAGE CODE 68592</p>	<p>DFTR CHETAN PATIL</p> <p>DATE 06/19/2025</p>	<p>DATE 06/19/2025</p> <p>TITLE NDS 5 480v Switchgear Replacement HU 2024-27 480V SWGR</p>	<p>THE INFORMATION ON THIS DOCUMENT WAS CREATED BY EATON CORPORATION. IT WAS DISCLOSED IN CONFIDENCE AND IS ONLY TO BE USED FOR THE PURPOSE IN WHICH IT WAS SUPPLIED.</p> <p>EATON</p>		
	<p>APPD CHETAN PATIL</p> <p>DATE 06/19/2025</p>	<p>PRODUCT CODE OL</p> <p>S.O. LOOGLBH</p>	<p>TYPE MAGNUM PXR SWITCHGEAR</p> <p>SHEET 001</p>	<p>SCHEMATIC</p>	
	<p>REVISION 2</p>	<p>G.O. LOM0036991-002</p>	<p>DWG LOOGLBH-S</p>	<p>SHEET 001</p>	
	<p>COEFIDL_R6</p>		<p>S002/SCH1 S002/SCH2 S002/SCH3 S002/SCH4</p>		



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	<p>APPD CHETAN PATIL</p> <p>DATE 06/19/2025</p>	<p>PRODUCT CODE OL</p> <p>S.O. LOOGLBH</p>	<p>TYPE MAGNUM PXR SWITCHGEAR</p> <p>G.O. LOM0036991-002</p>	<p>SCHEMATIC</p>
	<p>REVISION 2</p>	<p>DWG LOOGLBH-S</p>	<p>SHEET 002</p>	
			<p>COEFIDL_R6</p>	



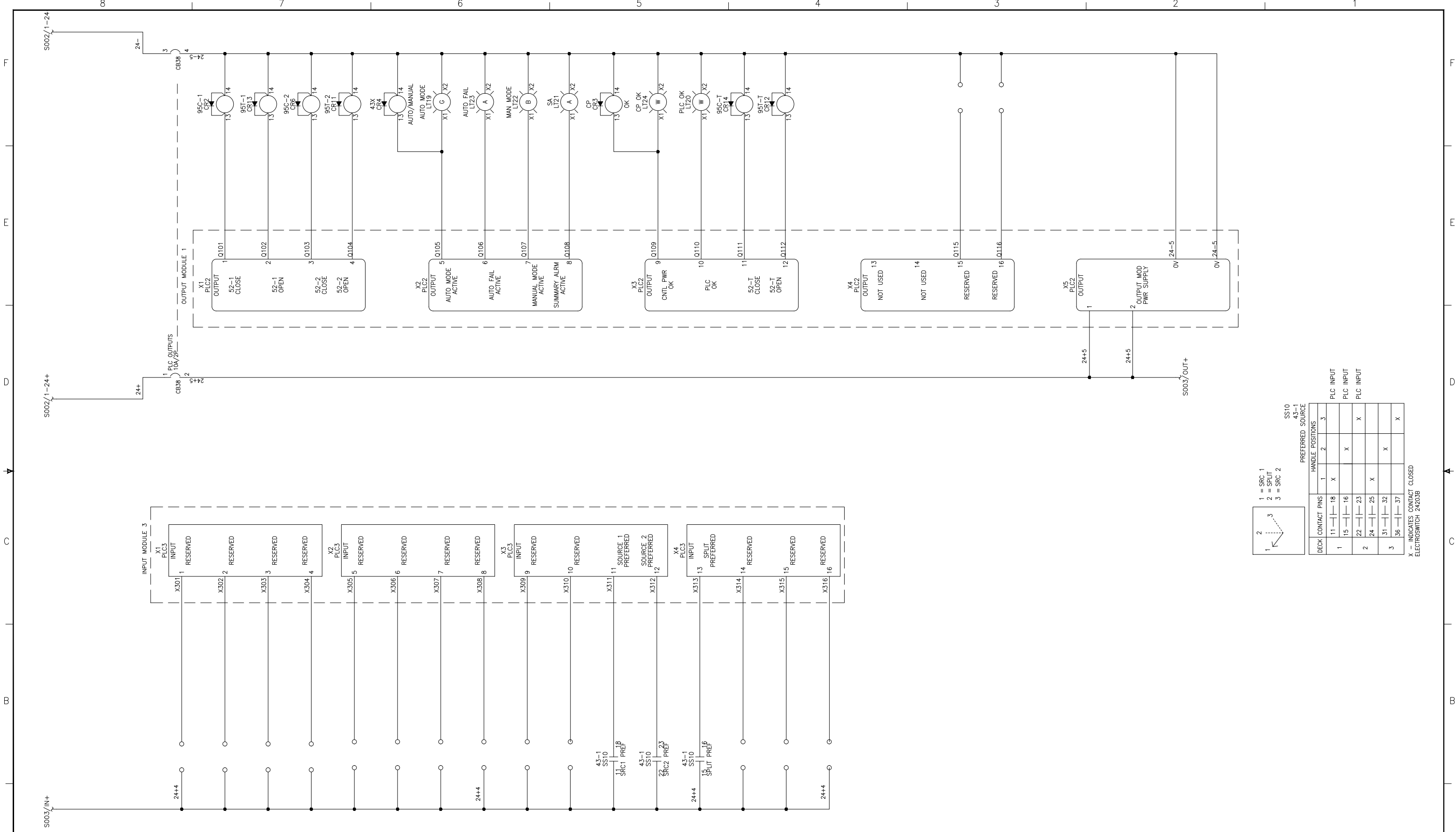
1 = AUTO
2 = MANUAL

DECK	CONTACT PINS	TRANSFER MODE SELECTOR HANDLE POSITIONS		PLC INPUT
		1	2	
1	11 - 13	X		PLC INPUT
	12 - 14		X	PLC INPUT
	15 - 17	X		
2	16 - 18		X	52-1 CLOSE
	21 - 23	X		
	22 - 24		X	52-1 OPEN
3	25 - 27	X		52-1 CLOSE
	26 - 28		X	52-1 OPEN
	31 - 33	X		52-T CLOSE
4	32 - 34		X	52-T OPEN
	35 - 37	X		52-T CLOSE
	36 - 38		X	52-T OPEN
5	41 - 43	X		52-2 CLOSE
	42 - 44		X	52-2 OPEN
	45 - 47	X		52-2 CLOSE
6	46 - 48		X	52-2 OPEN
	51 - 53	X		52-2 CLOSE
	52 - 54		X	52-2 OPEN
7	55 - 57	X		52-2 CLOSE
	56 - 58		X	52-2 OPEN

X - INDICATES CONTACT CLOSED
ELECTROSWITCH 24205B

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	PRODUCT CODE OL	S.O. LOOGLBH	TYPE MAGNUM PXR SWITCHGEAR	SCHEMATIC
	REVISION 2	G.O. LOM0036991-002	DWG LOOGLBH-S	SHEET 003
	TITLE NDS 5 480v Switchgear Replacement HU 2024-27 480V SWGR			

COEFDL_R6



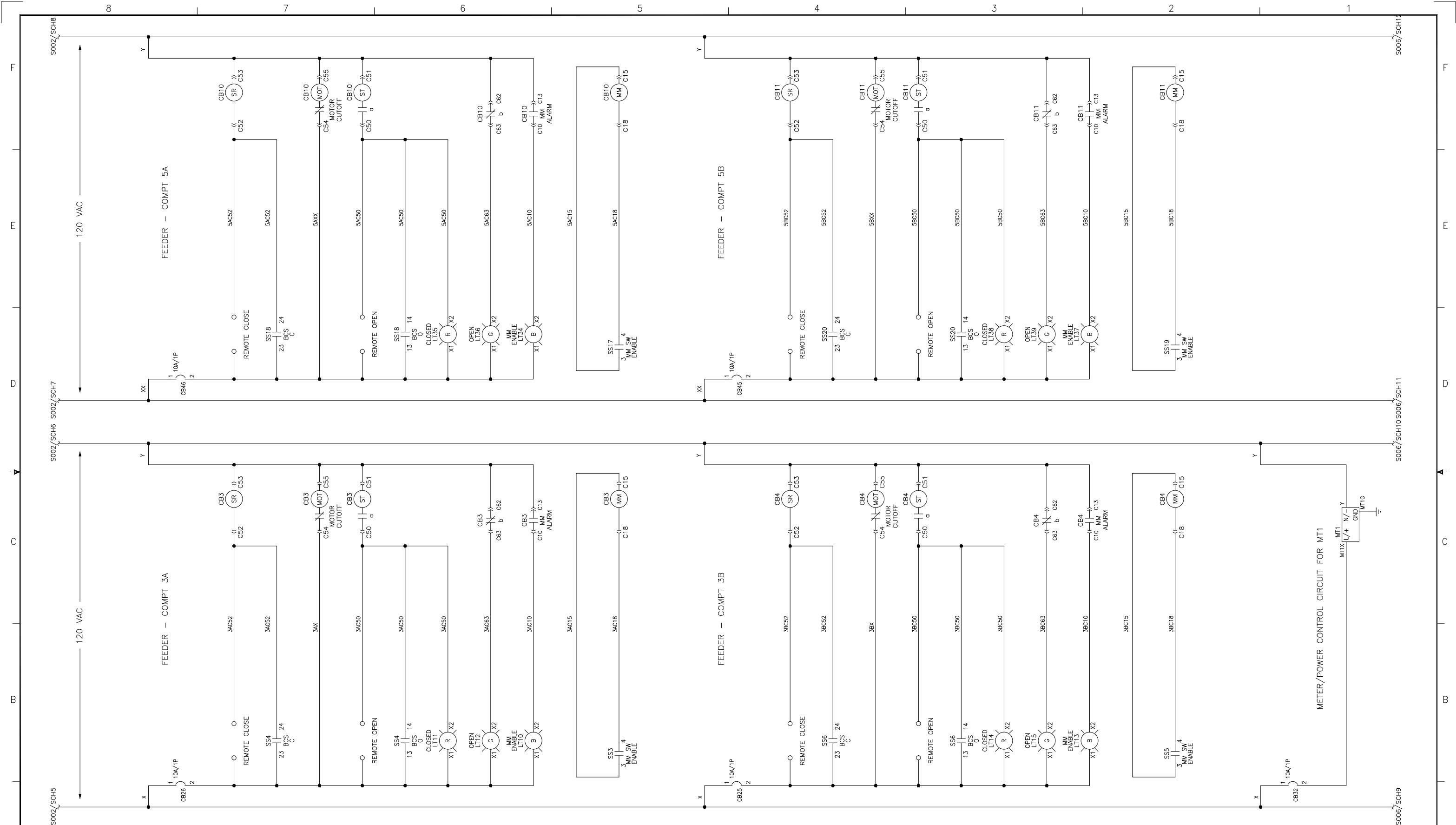
1 = SRC 1
2 = SPLIT
3 = SRC 2

DECK CONTACT PINS	PREFERRED SOURCE			PLC INPUT
	1	2	3	
11-18	X			PLC INPUT
15-16		X		PLC INPUT
22-23			X	PLC INPUT
24-25		X		
31-32		X		
36-37			X	

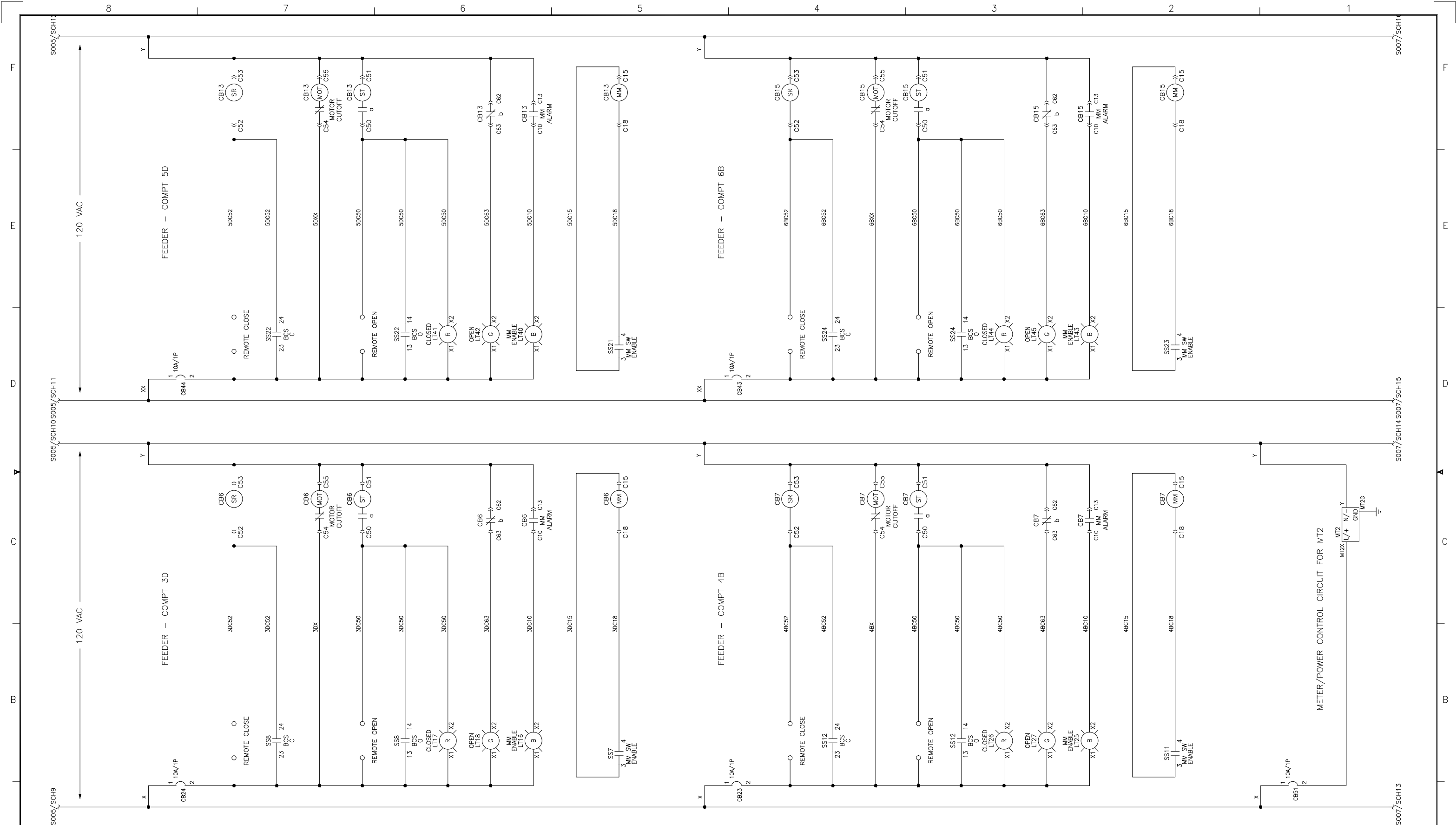
X - INDICATES CONTACT CLOSED ELECTROSWITCH 24203B

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CAGE CODE 68592	REVISION 2	G.O. LOM0036991-002	DWG LOOGLBH-S

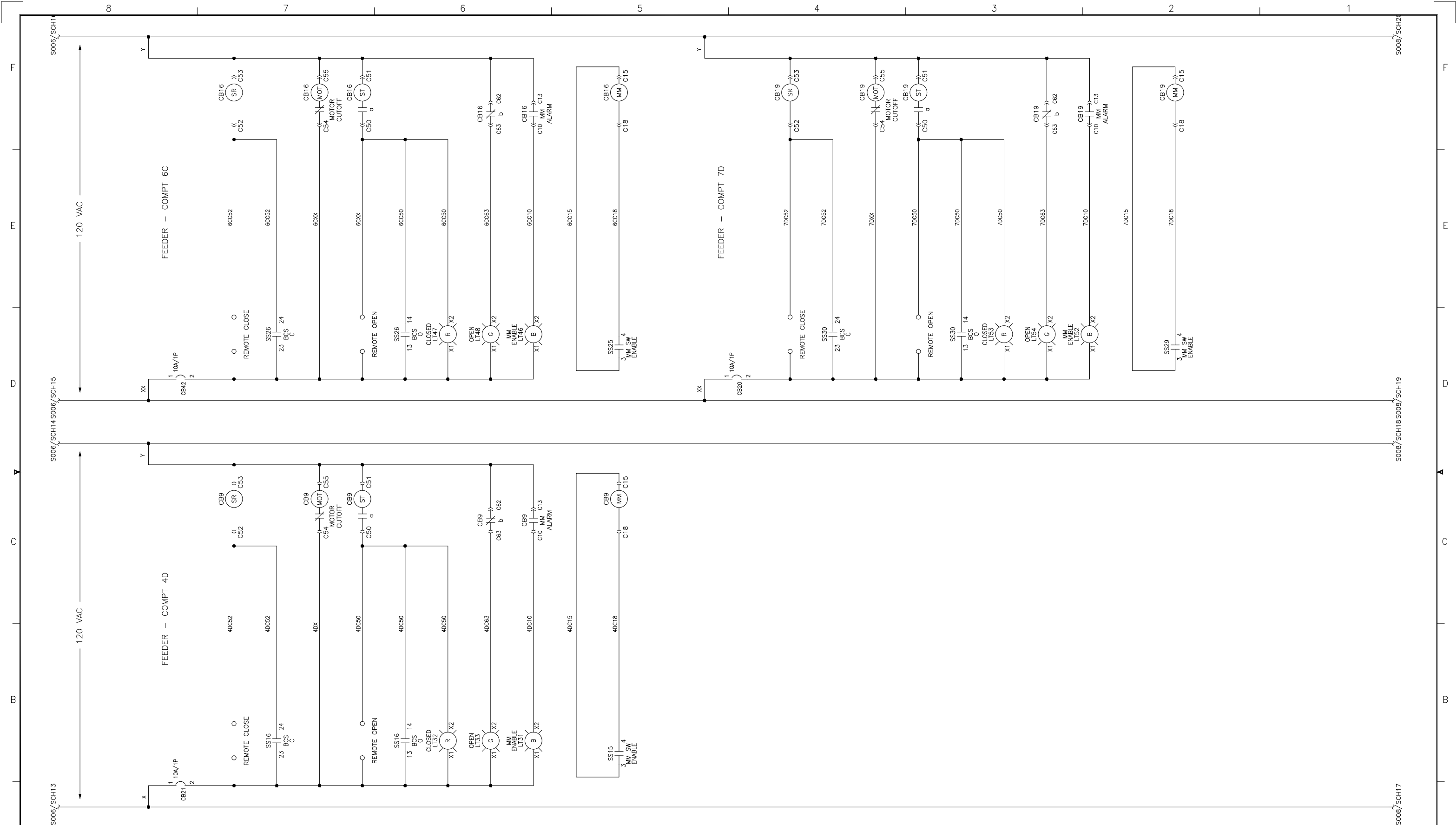
SCHEMATIC SHEET 004



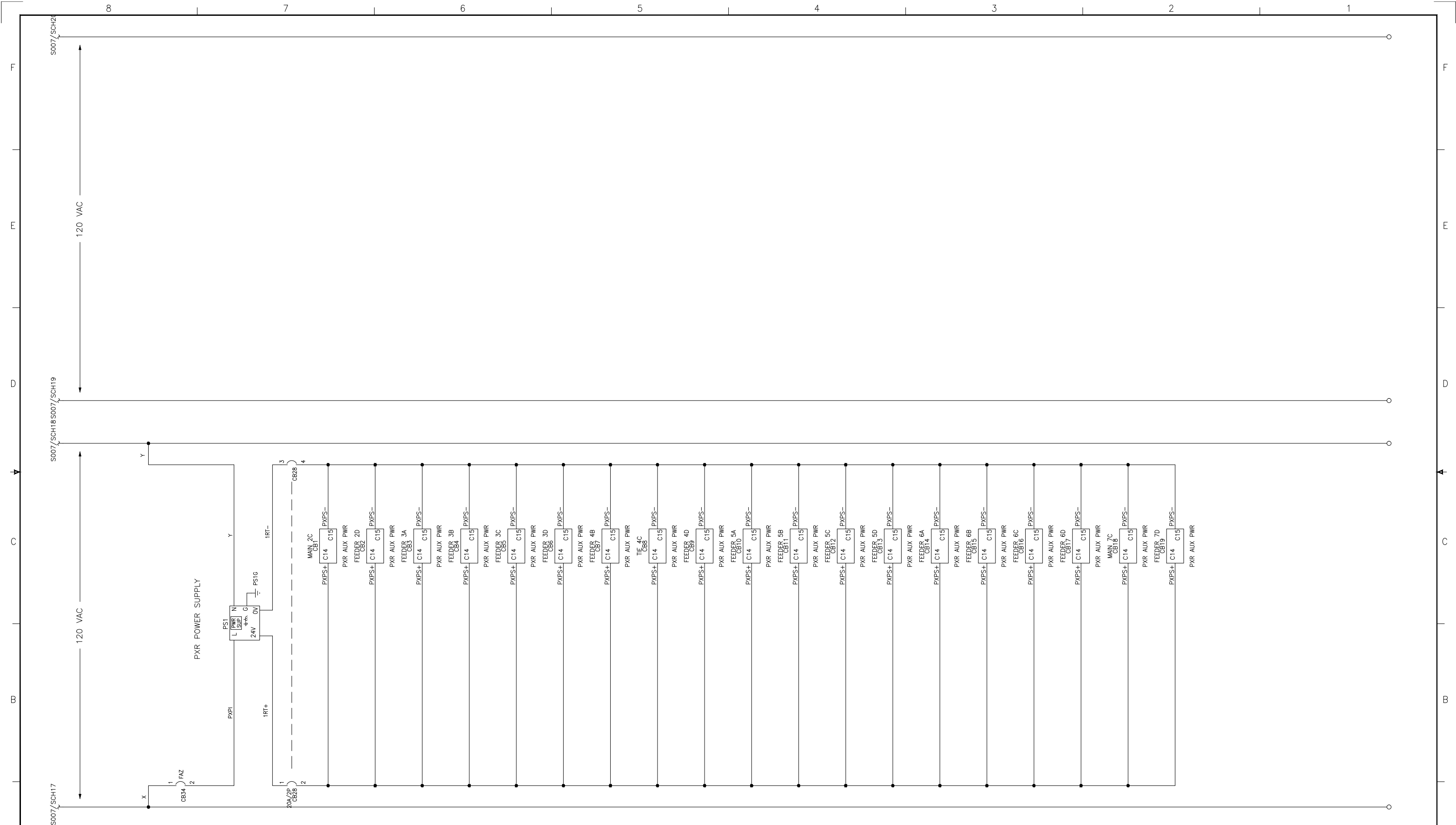
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	<p>PRODUCT CODE OL S.O. LOOGLBH</p>	<p>TYPE MAGNUM PXR SWITCHGEAR SCHEMATIC</p>
	<p>REVISION 2</p>	<p>G.O. LOM0036991-002 DWG LOOGLBH-S SHEET 005</p>
	<p>COEFDL_R6</p>	



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										<p>COEFDL_R6</p>				
										<p>DWG LOOGLBH-S</p>				
										<p>LOM0036991-002</p>				



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	<p>PRODUCT CODE OL</p> <p>REVISION 2</p>	<p>S.O. LOOGLBH</p>	<p>TITLE NDS 5 480v Switchgear Replacement HU 2024-27 480V SWGR</p> <p>TYPE MAGNUM PXR SWITCHGEAR</p> <p>G.O. LOM0036991-002</p>	<p>SCHEMATIC</p> <p>SHEET 007</p>
	<p>DWG LOOGLBH-S</p>	<p>SHEET 007</p>	<p>COEFDL_R6</p>	



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	CAGE CODE 68592	PRODUCT CODE OL	S.O. LOOGLBH	TYPE MAGNUM PXR SWITCHGEAR	SCHEMATIC

LOM0036991-002
LOOGLBH-S
 COEFDL_R6

SEQUENCE OF OPERATIONS

APPLICABLE BREAKERS

- 52-1 MAIN BREAKER FOR SOURCE 1 (MONITORED AND CONTROLLED BY PLC)
- 52-2 MAIN BREAKER FOR SOURCE 2 (MONITORED AND CONTROLLED BY PLC)
- 52-T TIE BREAKER (MONITORED AND CONTROLLED BY PLC)

USER INPUT DEVICES

- 43A – AUTO/MANUAL MODE SELECTOR SWITCH
- 43-1 – PREFERRED SOURCE SELECTOR SWITCH
- PB1 – ALARM RESET PUSHBUTTON
- CS-* – LOCAL OPEN/CLOSE CONTROL SWITCHES FOR BREAKERS LISTED ABOVE

INTERLOCKING AND LOCK-OUT

THE BREAKER CONTROL CIRCUITS FOR EACH OF THE BREAKERS LISTED ABOVE ARE ELECTRICALLY INTERLOCKED TO PREVENT PARALLELING SOURCES VIA BREAKER CONTROL SWITCHES AND VIA PLC CLOSE OPERATIONS.

WHEN ALL BREAKERS ARE CLOSED, A HARD-WIRED TRIPPING FUNCTION WILL IMMEDIATELY OPEN THE APPROPRIATE BREAKER BASED UPON THE POSITION OF THE PREFERRED SOURCE SELECTOR SWITCH (43-1).

OVERCURRENT TRIP SWITCHES (OTS) FROM EACH BREAKER LISTED ABOVE ARE INCORPORATED INTO THE HARD-WIRED INTERLOCKING SCHEME TO PREVENT CONNECTING ANY SOURCE TO A POTENTIALLY FAULTED BUS.

TRIP UNIT AND OTS SWITCH MUST BE RESET TO RESUME NORMAL OPERATIONS.

UNDER NO CIRCUMSTANCES SHOULD ANY ATTEMPTS BE MADE TO BYPASS THIS INTERLOCKING SCHEME.

CAUTION: INTERLOCKING SCHEME IS INACTIVE WHEN CONTROL POWER IS NOT AVAILABLE TO ELECTRICALLY OPERATE THE BREAKERS AND MECHANICAL PUSHBUTTONS ARE USED DURING EMERGENCY OPERATIONS.

MANUAL MODE OF OPERATION

WHEN THE AUTO/MANUAL MODE SELECTOR SWITCH 43A IS PLACED IN THE "MANUAL" POSITION, THE PLC NO LONGER HAS CONTROL OF THE BREAKERS, AND BREAKER CONTROL IS AVAILABLE TO THE USER VIA LOCAL CONTROL SWITCHES CS-1, CS-T, AND CS-2.

AUTOMATIC MODE OF OPERATION

WHEN THE AUTO/MANUAL MODE SELECTOR SWITCH 43A IS PLACED IN THE "AUTO" POSITION, THE PLC ASSUMES CONTROL OF THE BREAKERS, AND THE LOCAL CONTROL SWITCHES CS-1, CS-T, AND CS-2 ARE NOT OPERATIONAL FOR CLOSING BREAKERS. ADDITIONALLY, THE PLC IS PERMITTED TO AUTOMATICALLY PERFORM BREAKER CONTROL OPERATIONS BASED UPON THE AVAILABILITY OF SOURCES.

NOTE: LOCAL CONTROL SWITCHES CAN STILL OPEN BREAKERS IN AN EMERGENCY.

AUTO-HOLD HMI USER SELECTION

AUTO-HOLD – USER SELECTION ON HMI TO SUSPEND AUTOMATIC BREAKER OPERATION AND ALLOW MANUAL HMI BREAKER CONTROL.

ACTIVE-HOLD – PLC MODE THAT SUSPENDS AUTOMATIC OPERATION WHEN AUTO-HOLD IS ENABLED AND 43A IS IN AUTO POSITION.

WHEN THE AUTO/MANUAL MODE SELECTOR SWITCH 43A IS PLACED IN THE "AUTO" POSITION, THE USER MAY SUSPEND AUTOMATICALLY INITIATED BREAKER OPERATIONS BY ENABLING "AUTO-HOLD" VIA THE SETTINGS SCREEN ON THE HMI. WHEN "AUTO-HOLD" IS ENABLED AND 43A IS STILL IN THE "AUTO" POSITION, THE AUTOMATIC TRANSFER FUNCTION OPERATES IN "ACTIVE-HOLD" MODE AND MANUAL BREAKER CONTROL PUSHBUTTONS BECOME AVAILABLE ON THE HOME SCREEN OF THE HMI. ONCE "AUTO-HOLD" IS DISABLED BY THE USER AND 43A IS STILL IN THE "AUTO" POSITION, THE PLC WILL BE PERMITTED TO PERFORM AUTOMATIC BREAKER OPERATIONS.

THE USER MAY ALSO ENABLE "AUTO-HOLD" WITH 43A IN THE "MANUAL" POSITION. DOING SO WOULD ALLOW THE USER TO PLACE THE AUTOMATIC TRANSFER CONTROL FUNCTION INTO "ACTIVE-HOLD" BY MOVING 43A FROM THE "MANUAL" POSITION TO THE "AUTO" POSITION, AND THEN MANUALLY CONFIGURE THE BREAKERS TO THE DESIRED STATE BEFORE FULLY ENABLING THE AUTOMATIC CONTROL FUNCTION.

EMERGENCY OPERATION

IF CONTROLS ARE INOPERATIVE OR NO CONTROL POWER IS AVAILABLE, ALL BREAKERS MAY BE MANUALLY OPERATED USING THE MECHANICAL PUSHBUTTONS ON THE FRONT OF EACH BREAKER.

CAUTION: UNDER THESE CONDITIONS, NO INTERLOCKING WILL BE ACTIVE. USER MUST NOT PARALLEL ANY SOURCES OR CLOSE ONTO A FAULTED BUS.

AUTOMATIC/MANUAL RETRANSFER MODES


WHEN AUTOMATIC RETRANSFER MODE IS SELECTED VIA SELECTOR SWITCH 43-2 (OR VIA USER SELECTION ON THE HMI IF 43-2 OPTION IS NOT INCLUDED) WITH LOADS SERVED BY AN ALTERNATE SOURCE, THE PLC WILL AUTOMATICALLY RETRANSFER THE SYSTEM TO ITS NORMAL CONFIGURATION ONCE THE RETURNED NORMAL SOURCE HAS BEEN FULLY QUALIFIED BY ITS USER-ADJUSTABLE "FULL QUALIFICATION DELAY" TIMER. WHEN MANUAL RETRANSFER MODE IS SELECTED, THE PLC WILL WAIT FOR THE USER TO INITIATE RETRANSFER VIA THE "INITIATE MANUAL RETRANSFER" PUSHBUTTON PB2 (OR VIA A HMI PUSHBUTTON IF PB2 OPTION IS NOT INCLUDED). UPON INITIATION OF THE MANUAL RETRANSFER SEQUENCE, THE PLC WILL WAIT FOR THE USER-ADJUSTABLE "WALK-AWAY DELAY" TIMER TO COMPLETE BEFORE INITIATING THE FIRST BREAKER OPERATION IN THE SEQUENCE.

NOTE: SOURCE-SEEKING IS ALWAYS ACTIVE WHEN AUTOMATIC MODE IS ACTIVE REGARDLESS OF RETRANSFER MODE SELECTION. THE PLC WILL ATTEMPT TO RECOVER THE BUS TO A HEALTHY ALTERNATE SOURCE SHOULD THE SOURCE CURRENTLY FEEDING THE BUS FAIL.

TEST MODE

WHEN IN "AUTOMATIC MODE", SYSTEM AUTOMATIC BEHAVIOR MAY BE TESTED BY ENABLING "TEST MODE" ON THE HMI.

CAUTION: THIS IS A LIVE TEST, AND THE SYSTEM WILL RESPOND AS IF A REAL FAILURE HAD OCCURRED. TEST FUNCTION WILL SELF-CANCEL IF A REAL FAILURE SHOULD TAKE PLACE WHILE TESTING.

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	<p>PRODUCT CODE OL</p>	<p>S.O. LOOGLBH</p>	<p>TYPE MAGNUM PXR SWITCHGEAR</p>		<p>SCHEMATIC</p>
	<p>CAGE CODE 68592</p>	<p>REVISION 2</p>	<p>G.O. LOM0036991-002</p>	<p>DWG LOOGLBH-S</p>	<p>SHEET 009</p>

SEQUENCE OF OPERATIONS (CONTINUED)

SETTINGS

ALL USER-ADJUSTABLE TIME DELAYS ARE SET USING THE TIMER SETTINGS SCREEN ON THE HMI. TIME DELAY SETTINGS MAY BE CHANGED IN ANY MODE OF OPERATION.

INITIAL START-UP

INITIAL CONDITION:

- MAIN 52-1 - OPEN
- MAIN 52-2 - OPEN
- TIE 52-T - OPEN
- PREFERRED SOURCE - SPLIT

1. PLACE SELECTOR SWITCH 43A IN "MANUAL" POSITION.
2. VERIFY ALL TRANSFER RELATED CIRCUIT BREAKERS ARE IN THE FULLY-CONNECTED POSITION IN THEIR CELLS.
3. CONFIGURE SETTINGS AS REQUIRED ON HMI (E.G., TIMER VALUES, RETRANSFER MODE AND PREFERRED CONFIGURATION).
4. RESET ANY LATCHED ALARM CONDITIONS BY PRESSING THE "ALARM RESET" PUSHBUTTON.
5. ENABLE "AUTO-HOLD" USER SELECTION ON THE SETTINGS PAGE OF THE HMI.
6. WITH "AUTO-HOLD" ENABLED, TRANSITION THE AUTOMATIC TRANSFER CONTROL FUNCTION INTO "ACTIVE-HOLD" MODE BY MOVING SELECTOR SWITCH 43A INTO THE "AUTO" POSITION.
7. USING THE MANUAL BREAKER OPERATION BUTTONS NOW VISIBLE ON THE HOME PAGE OF THE HMI, CLOSE MAIN 52-1 AND MAIN 52-2. AFTER INITIATING EACH OPERATION, MOVE TO A SAFE DISTANCE FROM THE SWITCHGEAR WHILE THE "WALK-AWAY DELAY" TIMER RUNS.
8. DISABLE "AUTO-HOLD" USER SELECTION ON THE SETTINGS PAGE OF THE HMI. NOTE THAT THE 43A SELECTOR SWITCH IS ALREADY IN "AUTO" POSITION, THEREFORE AUTOMATIC TRANSFER MODE BECOMES ACTIVE.

NORMAL CONDITIONS

BOTH UTILITY SOURCES AT NORMAL VOLTAGE.
 AUTO/MANUAL MODE SELECTOR SWITCH 43A IN "AUTO" POSITION.
 BOTH MAINS CLOSED AND TIE OPEN.
 NO ALARMS PRESENT.

AUTOMATIC TRANSFER ON LOSS OF BOTH SOURCES

1. NO ACTION TAKEN.
2. IF BOTH SOURCES RETURN SIMULTANEOUSLY, NO ACTION NEEDED.
3. IF EITHER SOURCE RETURNS, SYSTEM REACTS AS IF ONE SOURCE HAS BEEN LOST.

AUTOMATIC TRANSFER ON LOSS OF SOURCE 1

1. SOURCE 1 VOLTAGE FALLS BELOW VOLTAGE-SENSING RELAY DROPOUT SET POINT.
2. SOURCE 1 DISQUALIFICATION DELAY TIMER COUNTS DOWN USER-ADJUSTABLE 1-60 SECONDS.
3. AFTER COMPLETION OF SOURCE 1 DISQUALIFICATION DELAY TIMER, MAIN BREAKER 52-1 OPENS.
4. NEUTRAL DELAY TIMER COUNTS DOWN USER-ADJUSTABLE 1-10 SECONDS.
5. AFTER COMPLETION OF NEUTRAL DELAY TIMER, TIE BREAKER 52-T CLOSES.
6. SWITCHGEAR NOW POWERED ENTIRELY BY SOURCE 2 VIA MAIN BREAKER 52-2 AND TIE BREAKER.

AUTOMATIC RETRANSFER WHEN SOURCE 1 RETURNS, OPEN TRANSITION

1. SOURCE 1 VOLTAGE RETURNS TO A LEVEL ABOVE PICKUP SET POINT.
2. SOURCE 1 FULL QUALIFICATION TIMER COUNTS DOWN USER-ADJUSTABLE 1-10 MINUTES.
3. AFTER COMPLETION OF FULL QUALIFICATION TIMER, TIE BREAKER 52-T OPENS.
4. NEUTRAL DELAY TIMER COUNTS DOWN USER-ADJUSTABLE 1-10 SECONDS.
5. AFTER COMPLETION OF NEUTRAL DELAY TIMER, SOURCE 1 MAIN BREAKER 52-1 CLOSES.
6. SWITCHGEAR HAS NOW RETURNED TO NORMAL CONFIGURATION.

MANUALLY-INITIATED RETRANSFER WHEN SOURCE 1 RETURNS, OPEN TRANSITION

1. SOURCE 1 VOLTAGE RETURNS TO A LEVEL ABOVE PICKUP SET POINT.
2. SOURCE 1 MINIMUM QUALIFICATION TIMER COUNTS DOWN USER-ADJUSTABLE 1-59 SECONDS.
3. HMI HOME SCREEN DISPLAYS MESSAGE THAT MANUAL RETRANSFER USER OPERATION IS AVAILABLE.
4. USER INITIATES MANUAL RETRANSFER OPERATION VIA HMI HOME SCREEN.
5. TIE BREAKER 52-T OPENS.
6. NEUTRAL DELAY TIMER COUNTS DOWN USER-ADJUSTABLE 1-10 SECONDS.
7. AFTER COMPLETION OF NEUTRAL DELAY TIMER, SOURCE 1 MAIN BREAKER 52-1 CLOSES.
8. SWITCHGEAR HAS NOW RETURNED TO NORMAL CONFIGURATION.

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	<p>CAGE CODE 68592</p>	<p>REVISION 2</p>	<p>G.O. LOM0036991-002</p>	<p>DWG LOOGLBH-S</p>	<p>SHEET 010</p>

SEQUENCE OF OPERATIONS (CONTINUED)

AUTOMATIC TRANSFER ON LOSS OF SOURCE 2

1. SOURCE 2 VOLTAGE FALLS BELOW VOLTAGE-SENSING RELAY DROPOUT SET POINT.
2. SOURCE 2 DISQUALIFICATION DELAY TIMER COUNTS DOWN USER-ADJUSTABLE 1-60 SECONDS.
3. AFTER COMPLETION OF SOURCE 2 DISQUALIFICATION DELAY TIMER, MAIN BREAKER 52-2 OPENS.
4. NEUTRAL DELAY TIMER COUNTS DOWN USER-ADJUSTABLE 1-10 SECONDS.
5. AFTER COMPLETION OF NEUTRAL DELAY TIMER, TIE BREAKER 52-T CLOSES.
6. SWITCHGEAR NOW POWERED ENTIRELY BY SOURCE 1 VIA MAIN BREAKER 52-1 AND TIE BREAKER.

AUTOMATIC RETRANSFER WHEN SOURCE 2 RETURNS, OPEN TRANSITION


1. SOURCE 2 VOLTAGE RETURNS TO A LEVEL ABOVE PICKUP SET POINT.
2. SOURCE 2 FULL QUALIFICATION TIMER COUNTS DOWN USER-ADJUSTABLE 1-10 MINUTES.
3. AFTER COMPLETION OF FULL QUALIFICATION TIMER, TIE BREAKER 52-T OPENS.
4. NEUTRAL DELAY TIMER COUNTS DOWN USER-ADJUSTABLE 1-10 SECONDS.
5. AFTER COMPLETION OF NEUTRAL DELAY TIMER, SOURCE 2 MAIN BREAKER 52-2 CLOSES.
6. SWITCHGEAR HAS NOW RETURNED TO NORMAL CONFIGURATION.

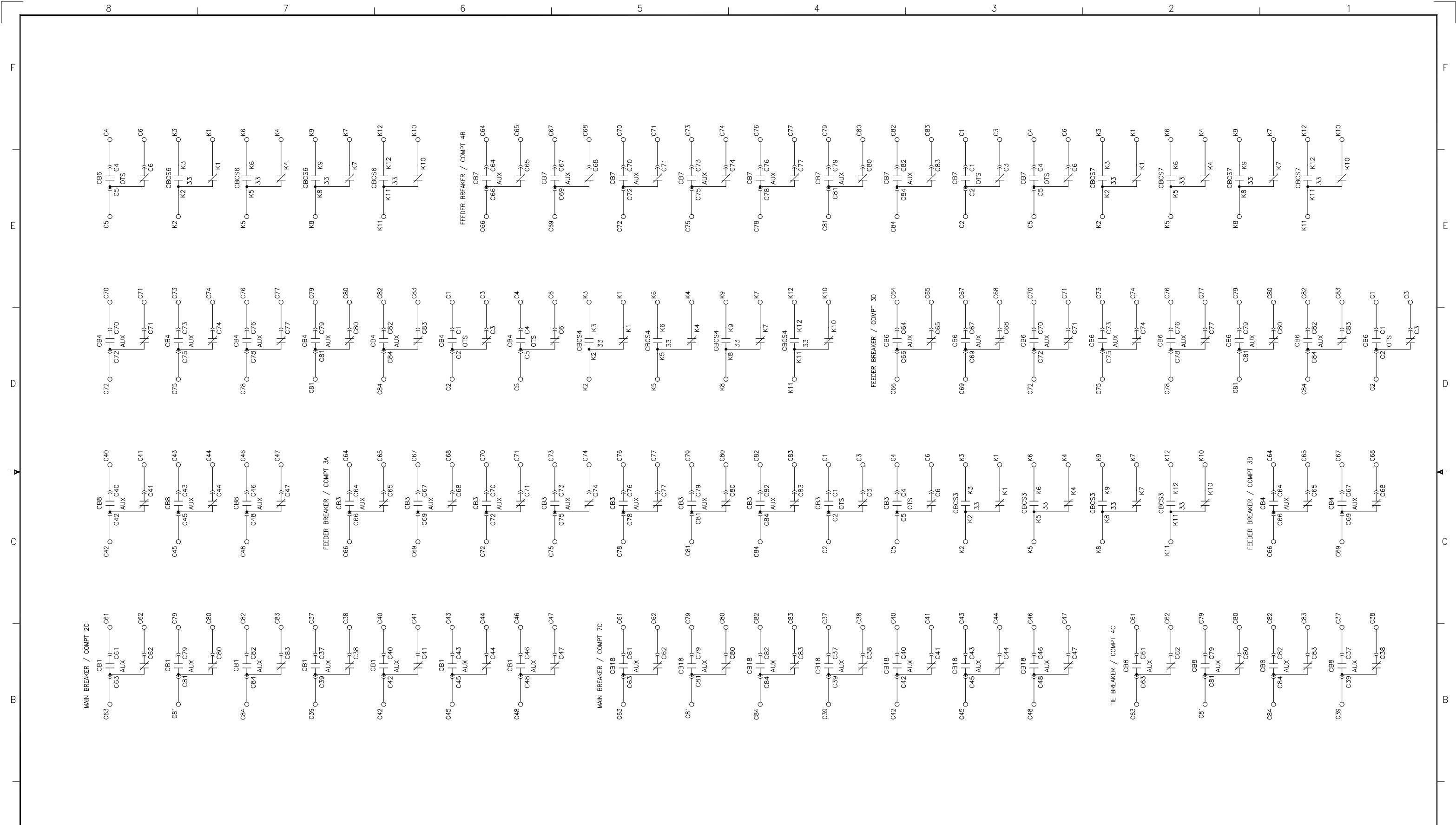
MANUALLY-INITIATED RE-TRANSFER WHEN SOURCE 2 RETURNS, OPEN TRANSITION

1. SOURCE 2 VOLTAGE RETURNS TO A LEVEL ABOVE PICKUP SET POINT.
2. SOURCE 2 MINIMUM QUALIFICATION TIMER COUNTS DOWN USER-ADJUSTABLE 1-59 SECONDS.
3. HMI HOME SCREEN DISPLAYS MESSAGE THAT MANUAL RETRANSFER USER OPERATION IS AVAILABLE.
4. USER INITIATES MANUAL RETRANSFER OPERATION VIA HMI HOME SCREEN.
5. TIE BREAKER 52-T OPENS.
6. NEUTRAL DELAY TIMER COUNTS DOWN USER-ADJUSTABLE 1-10 SECONDS.
7. AFTER COMPLETION OF NEUTRAL DELAY TIMER, SOURCE 2 MAIN BREAKER 52-2 CLOSES.
8. SWITCHGEAR HAS NOW RETURNED TO NORMAL CONFIGURATION.

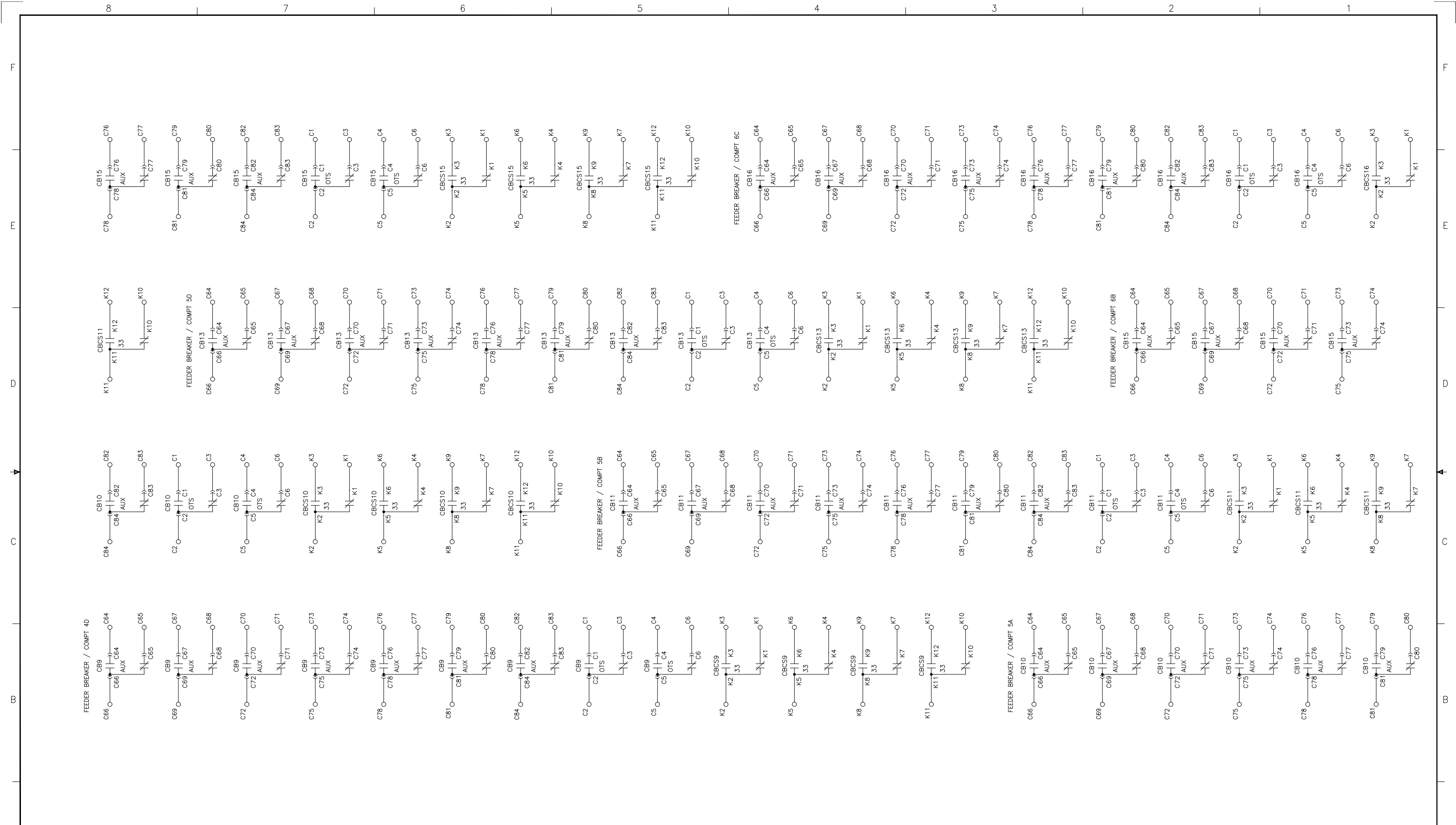
USER ADJUSTABLE SETTINGS ON HMI

1. WALK-AWAY DELAY: THE AMOUNT OF TIME (IN SECONDS) THE ATC PLC WAITS AFTER DETECTING ANY USER INTERACTION (VIA THE HMI OR VIA ANY PHYSICAL CONTROL SWITCH MONITORED BY THE PLC) BEFORE PERMITTING ANY BREAKER SWITCHING OPERATION. THE INTENT OF THIS DELAY IS TO ALLOW A USER ENOUGH TIME TO MOVE TO A SAFE DISTANCE BEFORE A BREAKER OPERATION OCCURS. ADDITIONALLY, THIS DELAY GIVES THE USER TIME TO CANCEL THE PENDING BREAKER OPERATION IF NEEDED.
2. SOURCE DISQUALIFICATION DELAY: THE AMOUNT OF TIME (IN SECONDS) THE ATC PLC WAITS AFTER DETECTING LOSS OF A GIVEN UTILITY SOURCE BEFORE DISQUALIFYING THE SOURCE FROM SUPPLYING LOADS.
3. MINIMUM QUALIFICATION DELAY: THE AMOUNT OF TIME (IN SECONDS) THE ATC PLC WAITS AFTER DETECTING RETURN OF A GIVEN UTILITY SOURCE BEFORE QUALIFYING THE SOURCE TO SERVE A BUS THAT IS CURRENTLY DEAD.
4. FULL QUALIFICATION DELAY: THE AMOUNT OF TIME (IN MINUTES) THE ATC PLC WAITS AFTER DETECTING RETURN OF A GIVEN UTILITY SOURCE BEFORE QUALIFYING THE SOURCE TO SERVE A BUS THAT IS CURRENTLY SUPPLIED BY THE OTHER SOURCE.
5. NEUTRAL DELAY: THE AMOUNT OF TIME (IN SECONDS) THE ATC PLC WAITS AFTER DETECTING THAT A GIVEN BUS IS ISOLATED FROM BOTH SOURCES BEFORE QUALIFYING THE BUS TO RECEIVE ENERGY FROM EITHER SOURCE.

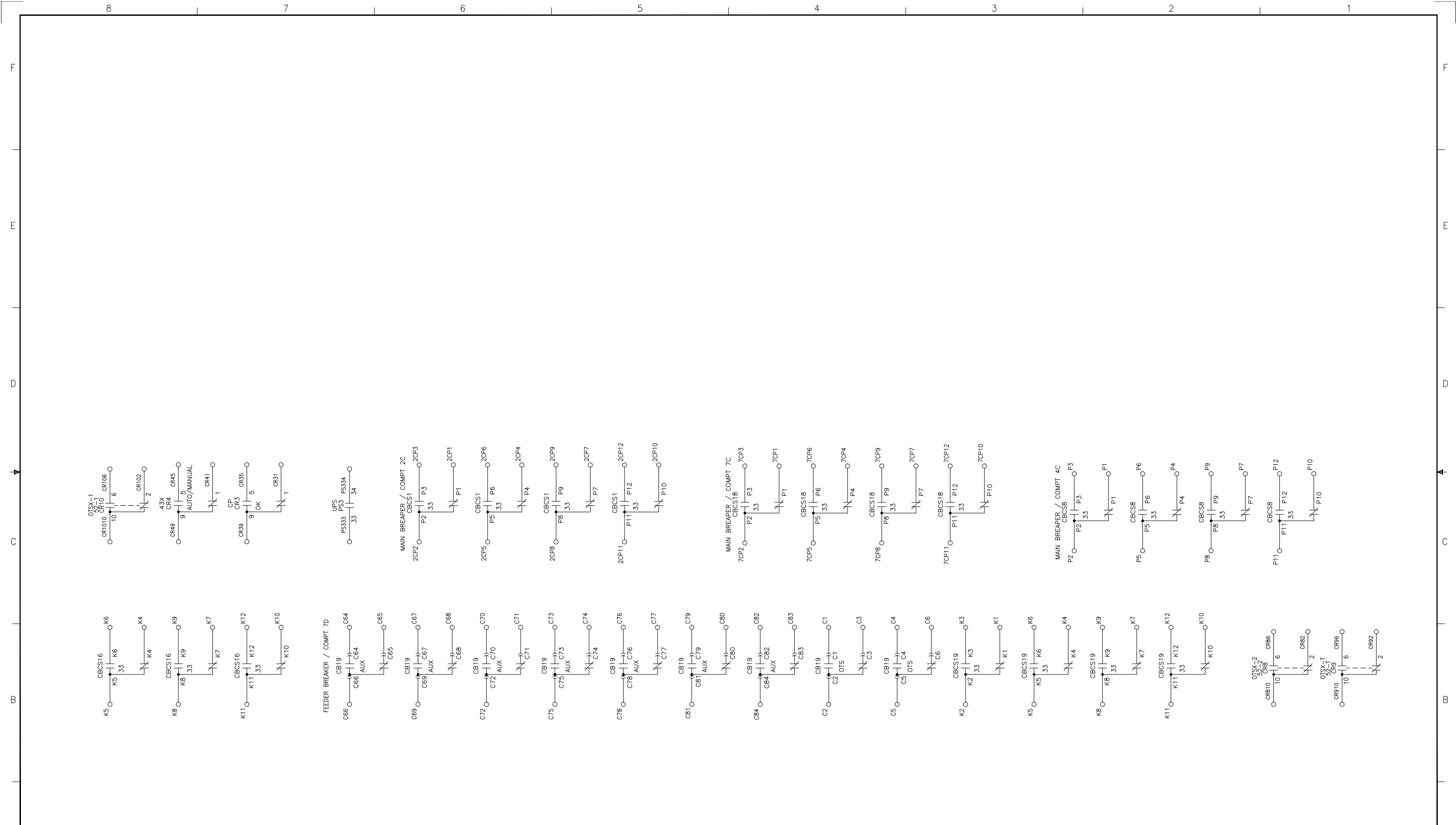
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	REVISION 2		G.O. LOM0036991-002	DWG LOOGLBH-S
				SHEET 011



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		APPD CHETAN PATIL	DATE 06/19/2025		
CAGE CODE 68592	REVISION 2	S.O. LOOGLBH	TYPE MAGNUM PXR SWITCHGEAR		SCHEMATIC
		G.O. LOM0036991-002	DWG LOOGLBH-S	SHEET 012	



The information on this document is suitable for use in establishing final installation and construction details. CAGE CODE 68592	Issued For Construction		DFTR CHETAN PATIL	DATE 06/19/2025	THE INFORMATION ON THIS DOCUMENT WAS CREATED BY EATON CORPORATION. IT WAS DISCLOSED IN CONFIDENCE AND IS ONLY TO BE USED FOR THE PURPOSE IN WHICH IT WAS SUPPLIED.	EATON
	The information on this document is suitable for use in establishing final installation and construction details.		APPD CHETAN PATIL	DATE 06/19/2025		
	PRODUCT CODE OL	S.O. LOOGLBH	TYPE MAGNUM PXR SWITCHGEAR		SCHEMATIC	
	REVISION 2	G.O. LOM0036991-002	DWG LOOGLBH-S	SHEET 013		COEFDL_R6




<p>...</p> <p>...</p> <p>...</p> <p>...</p>	<p>Issued For Construction</p> <p>The information on this document is suitable for use in establishing final installation and construction details.</p>		<p>DFTR CHETAN PATIL</p>	<p>DATE 06/19/2025</p>	<p>THE INFORMATION ON THIS DOCUMENT WAS CREATED BY EATON CORPORATION. IT WAS DISCLOSED IN CONFIDENCE AND IS ONLY TO BE USED FOR THE PURPOSE IN WHICH IT WAS SUPPLIED.</p> <p>EATON</p>	
	<p>APPD CHETAN PATIL</p>		<p>DATE 06/19/2025</p>	<p>TITLE NDS 5 480v Switchgear Replacement HU 2024-27 480V SWGR</p>		
	<p>CAGE CODE 68592</p>	<p>PRODUCT CODE OL</p>	<p>S.O. LOOGLBH</p>	<p>TYPE MAGNUM PXR SWITCHGEAR</p>		<p>SCHEMATIC</p>
	<p>REVISION 2</p>	<p>G.O. LOM0036991-002</p>	<p>DWG LOOGLBH-S</p>	<p>SHEET 014</p>	<p>COEFDL_R6</p>	

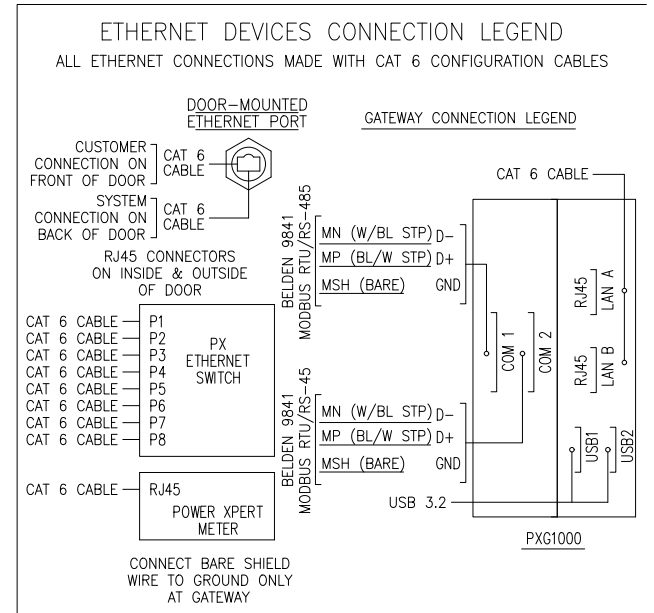
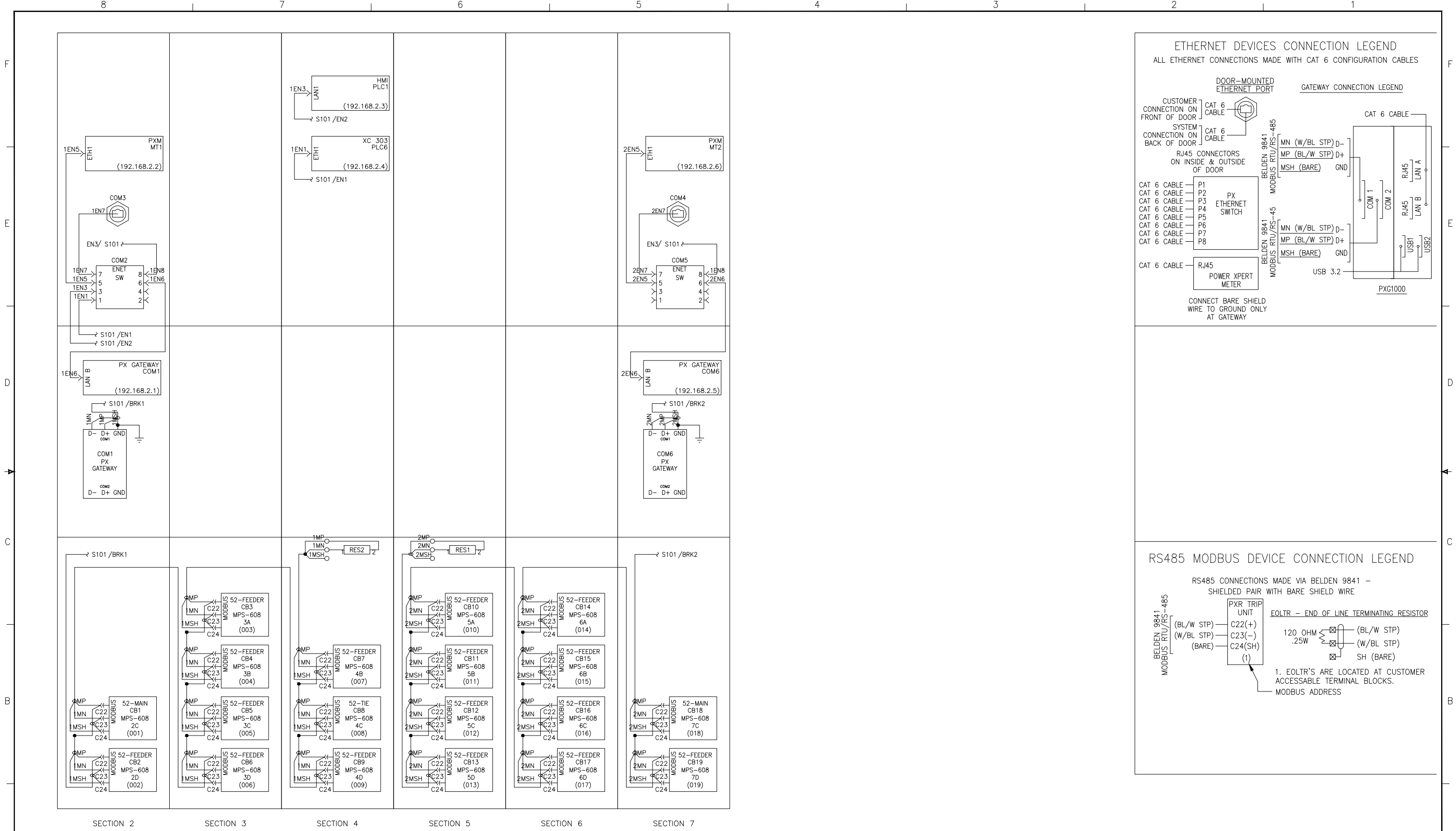
REVISION STATUS		SHEET DESCRIPTION
SHEET	REV	
100	3	REVISION SHEET
101	2	COMMUNICATION

REVISION HISTORY				
REV	REVISION DESCRIPTION	BY	APPD	DATE
1	CUSTOMER APPROVAL	CSP	CSP	08/15/2024
2	RELEASE FOR DRAFTING	CSP	CSP	06/19/2025
3	ADDED WIRE IDS	PN	CSP	08/19/2025

REVISION SHEET

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	APPD CHETAN PATIL	DATE 06/19/2025	TITLE NDS 5 480v Switchgear Replacement HU 2024-27 480V SWGR		
CAGE CODE 68592	REVISION 3	PRODUCT CODE OL	S.O. LOOGLBH	TYPE MAGNUM PXR SWITCHGEAR	COMMUNICATION
		G.O. LOM0036991-002	DWG LOOGLBH-S	SHEET 100	



A	8	7	6	5	4	3	2	1	COEFDL_R6	<p>Issued For Construction</p> <p>The information on this document is suitable for use in establishing final installation and construction details.</p>	DFTR CHETAN PATIL DATE 06/19/2025	DATE 06/19/2025	THE INFORMATION ON THIS DOCUMENT WAS CREATED BY EATON CORPORATION. IT WAS DISCLOSED IN CONFIDENCE AND IS ONLY TO BE USED FOR THE PURPOSE IN WHICH IT WAS SUPPLIED.	
											APPD CHETAN PATIL DATE 06/19/2025	TITLE NDS 5 480v Switchgear Replacement HU 2024-27 480V SWGR		
											PRODUCT CODE OL S.O. LOOGLBH	TYPE MAGNUM PXR SWITCHGEAR	COMMUNICATION	
											CAGE CODE 68592	REVISION 2	G.O. LOM0036991-002	

REVISION STATUS		SHEET DESCRIPTION
SHEET	REV	
200	4	REVISION SHEET
201	2	SCHEME-GF/ZI
202	2	SCHEMATIC

REVISION HISTORY				
REV	REVISION DESCRIPTION	BY	APPD	DATE
1	CUSTOMER APPROVAL	CSP	CSP	08/15/2024
2	RELEASE FOR DRAFTING	CSP	CSP	06/19/2025
3	ADDED 189-010-10 (CT5)	CSP	CSP	08/19/2025
3	ADDED WIRE IDS	PN	CSP	08/20/2025

REVISION SHEET

Issued For Construction

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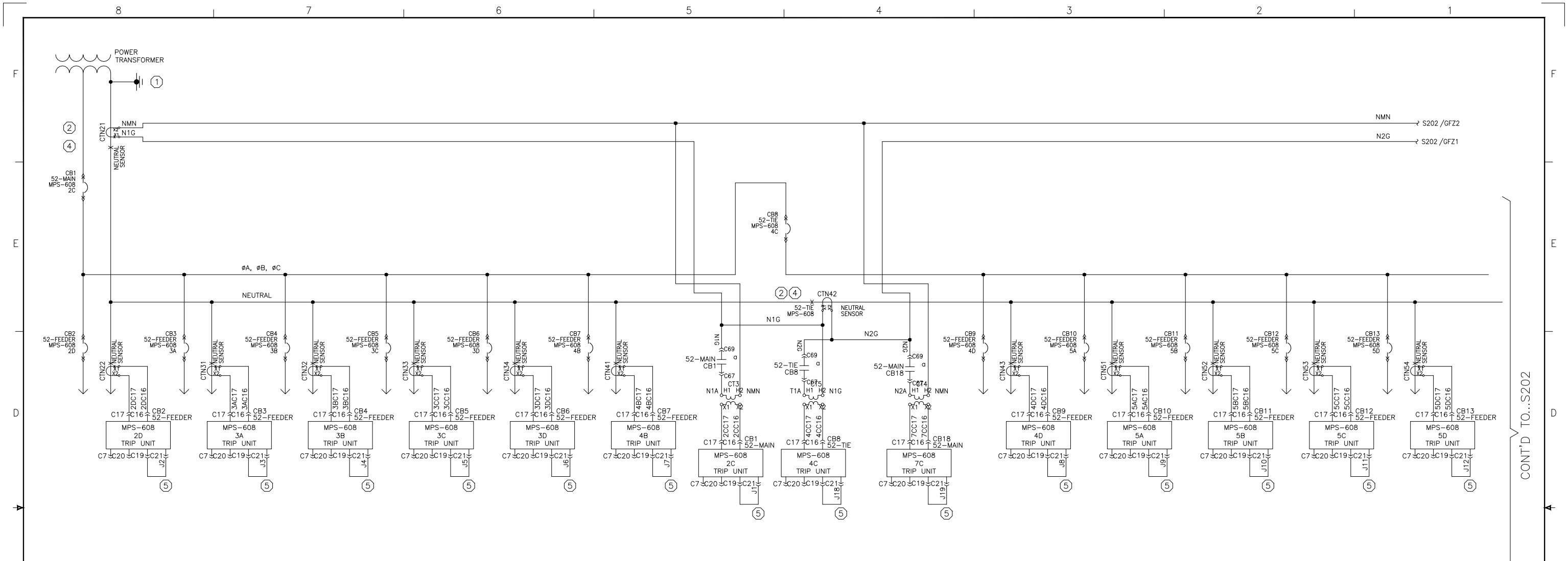
DFTR	DATE
CHETAN PATIL	06/19/2025
APPD	DATE
CHETAN PATIL	06/19/2025

THE INFORMATION ON THIS DOCUMENT WAS CREATED BY EATON CORPORATION. IT WAS DISCLOSED IN CONFIDENCE AND IS ONLY TO BE USED FOR THE PURPOSE IN WHICH IT WAS SUPPLIED.	
TITLE	NDS 5 480v Switchgear Replacement HU 2024-27 480V SWGR



PRODUCT CODE	S.O.	TYPE	GROUND FAULT
OL	LOOGLBH	MAGNUM PXR SWITCHGEAR	

CAGE CODE	REVISION	G.O.	DWG	SHEET
68592	4	LOM0036991-002	LOOGLBH-S	200



- NOTE 1. NO OTHER GROUNDING OF NEUTRAL BUS SHOULD BE MADE DOWNSTREAM FROM THESE TWO POINTS BECAUSE GROUND FAULT PROTECTION IS DEFEATED.
- NOTE 2. POLARITY MUST BE AS SHOWN.
- NOTE 5. NON ZONE INTERLOCKING APPLICATIONS REQUIRE EXTERNAL JUMPER BETWEEN C19 AND C21.
- NOTE 7. 4000 AND 5000 AMPERE FRAME BREAKERS REQUIRE 2A INPUT SIGNAL, TWO 1 AMPERE SENSORS REQUIRED.
- NOTE 12. METHOD FOR CALCULATING AUXILIARY CURRENT TRANSFORMER. ITI MODEL 189 [WITH H1 = 5.0] [X1 CALCULATED BELOW]

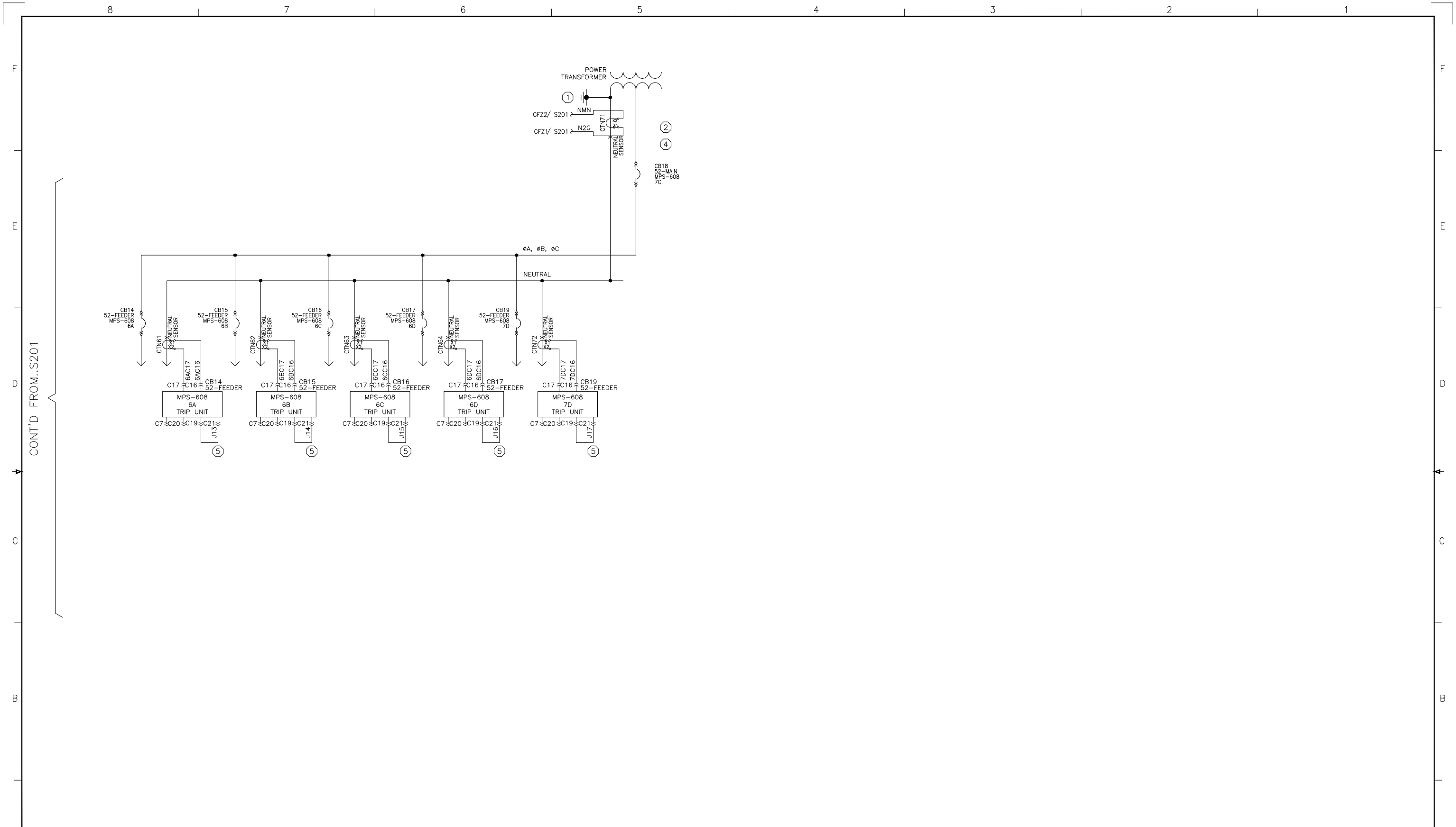
WHERE S_T IS RATING PLUG VALUE OF TIE BREAKER
 WHERE S_M IS RATING PLUG OF BOTH MAIN BREAKERS

WHERE K IS EQUAL TO: 2.0 WHEN TIE FRAME < 4000A & MAIN FRAME > 3200A
 0.5 WHEN TIE FRAME > 3200A & MAIN FRAME < 4000A
 1.0 WHEN TIE FRAME & MAIN FRAME < 4000A
 1.0 WHEN TIE FRAME & MAIN FRAME > 3200A

$$X1 = \frac{S_T \times K \times 5}{S_M}$$

MAGNUM DS MOD. RESIDUAL GROUND FAULT ON MAINS TIE & FEEDERS (TIE WITH DIFFERENT SIZED SENSOR)

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	The information on this document is suitable for use in establishing final installation and construction details.	APPD CHETAN PATIL	DATE 06/19/2025	TITLE NDS 5 480v Switchgear Replacement HU 2024-27 480V SWGR			
	CAGE CODE 68592	PRODUCT CODE OL	S.O. LOOGLBH	TYPE MAGNUM PXR SWITCHGEAR			GROUND FAULT
	REVISION 2	G.O. LOM0036991-002		DWG LOOGLBH-S	SHEET 201		



CONT'D FROM..S201

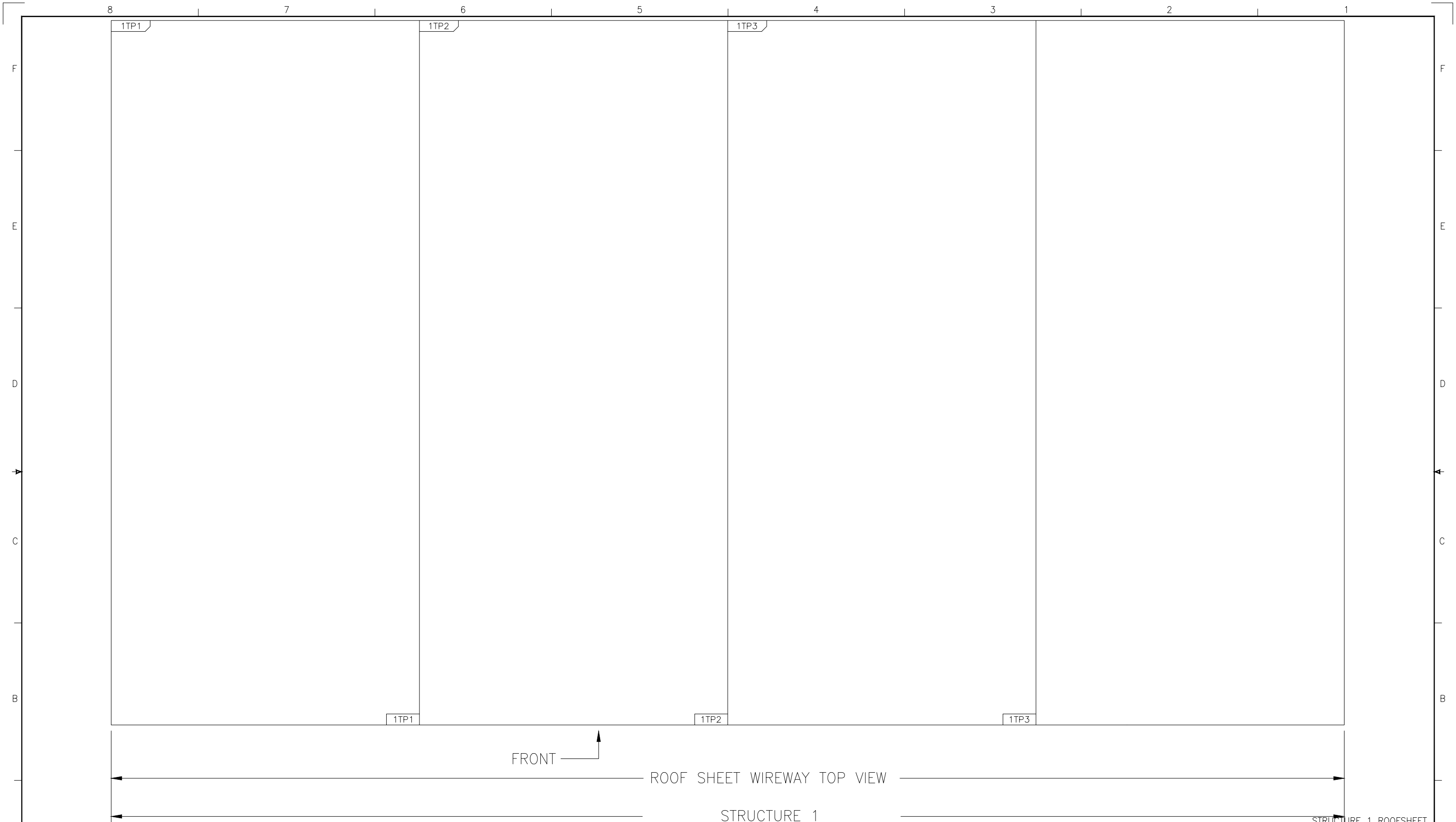
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	<p>APPD CHETAN PATIL</p>	<p>DATE 06/19/2025</p>	<p>TITLE NDS 5 480v Switchgear Replacement HU 2024-27 480V SWGR</p>		
	<p>PRODUCT CODE OL</p>	<p>S.O. LOOGLBH</p>	<p>TYPE MAGNUM PXR SWITCHGEAR</p>		<p>GROUND FAULT</p>
	<p>CAGE CODE 68592</p>	<p>REVISION 2</p>	<p>G.O. LOM0036991-002</p>	<p>DWG LOOGLBH-S</p>	<p>SHEET 202</p>

REVISION STATUS		SHEET DESCRIPTION	
SHEET	REV		
000	1	REVISION SHEET	
001	1	STRUCTURE 1 ROOFSHEET	
002	1	STRUCTURE 1 REAR VIEW	
003	1	STRUCTURE 2 ROOFSHEET	
004	1	STRUCTURE 2 COMPARTMENT A FRONT VIEW	
005	1	STRUCTURE 2 BREAKER COMPT C FRONT VIEW	
006	1	STRUCTURE 2 BREAKER COMPT D FRONT VIEW	
007	1	STRUCTURE 2 REAR VIEW	
008	1	STRUCTURE 2 COMPARTMENT A-B UPPER INST BARRIER	
009	1	STRUCTURE 2 COMPARTMENT A-B LWR INST BARRIER	
010	1	STRUCTURE 2 COMPARTMENT A-B LEFT SIDE	
011	1	STRUCTURE 2 COMPARTMENT A DOOR	
012	1	STRUCTURE 3 ROOFSHEET	
013	1	STRUCTURE 3 BREAKER COMPT A FRONT VIEW	
014	1	STRUCTURE 3 BREAKER COMPT B FRONT VIEW	
015	1	STRUCTURE 3 BREAKER COMPT C FRONT VIEW	
016	1	STRUCTURE 3 BREAKER COMPT D FRONT VIEW	
017	1	STRUCTURE 3 REAR VIEW	
018	1	STRUCTURE 4 ROOFSHEET	
019	1	STRUCTURE 4 COMPARTMENT A FRONT VIEW	
020	1	STRUCTURE 4 BREAKER COMPT B FRONT VIEW	
021	1	STRUCTURE 4 BREAKER COMPT C FRONT VIEW	
022	1	STRUCTURE 4 BREAKER COMPT D FRONT VIEW	
023	1	STRUCTURE 4 REAR VIEW	
024	1	STRUCTURE 4 COMPARTMENT A INSTRUMENT BARRIER	
025	1	STRUCTURE 4 COMPARTMENT A DOOR	
026	1	STRUCTURE 5 ROOFSHEET	
027	1	STRUCTURE 5 BREAKER COMPT A FRONT VIEW	
028	1	STRUCTURE 5 BREAKER COMPT B FRONT VIEW	
029	1	STRUCTURE 5 BREAKER COMPT C FRONT VIEW	
030	1	STRUCTURE 5 BREAKER COMPT D FRONT VIEW	
031	1	STRUCTURE 5 REAR VIEW	
032	1	STRUCTURE 6 ROOFSHEET	
033	1	STRUCTURE 6 BREAKER COMPT A FRONT VIEW	
034	1	STRUCTURE 6 BREAKER COMPT B FRONT VIEW	
035	1	STRUCTURE 6 BREAKER COMPT C FRONT VIEW	
036	1	STRUCTURE 6 BREAKER COMPT D FRONT VIEW	
037	1	STRUCTURE 6 REAR VIEW	
038	1	STRUCTURE 7 ROOFSHEET	
039	1	STRUCTURE 7 COMPARTMENT A FRONT VIEW	
040	1	STRUCTURE 7 BREAKER COMPT C FRONT VIEW	
041	1	STRUCTURE 7 BREAKER COMPT D FRONT VIEW	
042	1	STRUCTURE 7 REAR VIEW	
043	1	STRUCTURE 7 COMPARTMENT A-B UPPER INST BARRIER	
044	1	STRUCTURE 7 COMPARTMENT A-B LWR INST BARRIER	
045	1	STRUCTURE 7 COMPARTMENT A-B LEFT SIDE	
046	1	STRUCTURE 7 COMPARTMENT A DOOR	
047	1	STRUCTURE 8 ROOFSHEET	
048	1	STRUCTURE 8 REAR VIEW	

REVISION HISTORY				
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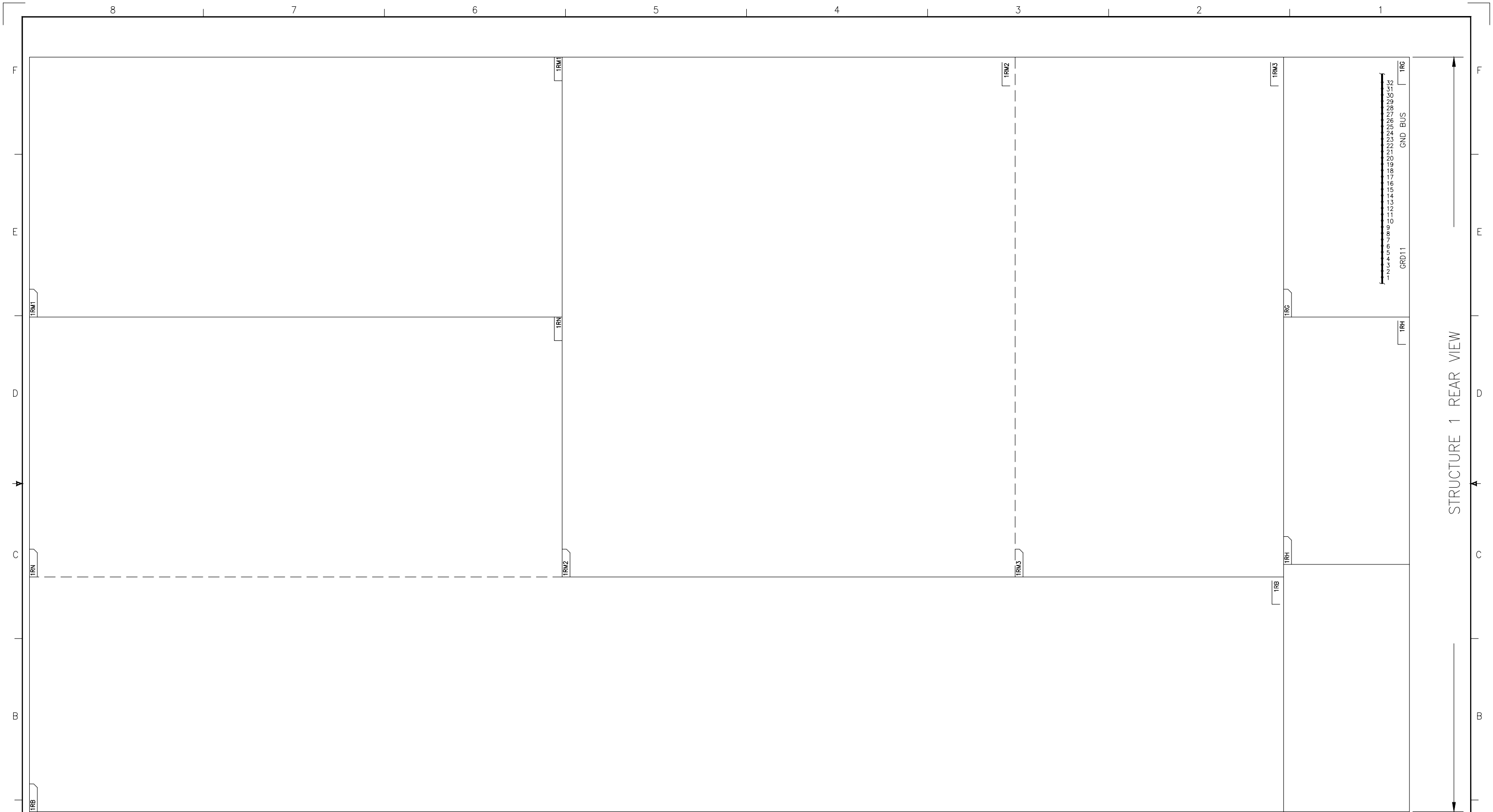
<p>Issued For Construction</p> <p>The information on this document is suitable for use in establishing final installation and construction details.</p>		<p>DTR POPAT NIMBHORE DATE 08/19/2025</p> <p>APPD KENNETH HOWITT DATE 08/19/2025</p> <p>PRODUCT CODE OL S.O. LOOGLBH</p> <p>REVISION 1</p> <p>CAGE CODE 68592</p>	<p>THE INFORMATION ON THIS DOCUMENT WAS CREATED BY EATON CORPORATION. IT WAS DISCLOSED IN CONFIDENCE AND IS ONLY TO BE USED FOR THE PURPOSE IN WHICH IT WAS SUPPLIED.</p> <p>EATON</p> <p>TITLE NDS 5 480v Switchgear Replacement HU 2024-27 480V SWGR</p> <p>TYPE MAGNUM PXR SWITCHGEAR</p> <p>G.O. LOM0036991-002</p> <p>DWG LOOGLBH-W SHEET 000</p>
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REVISION SHEET



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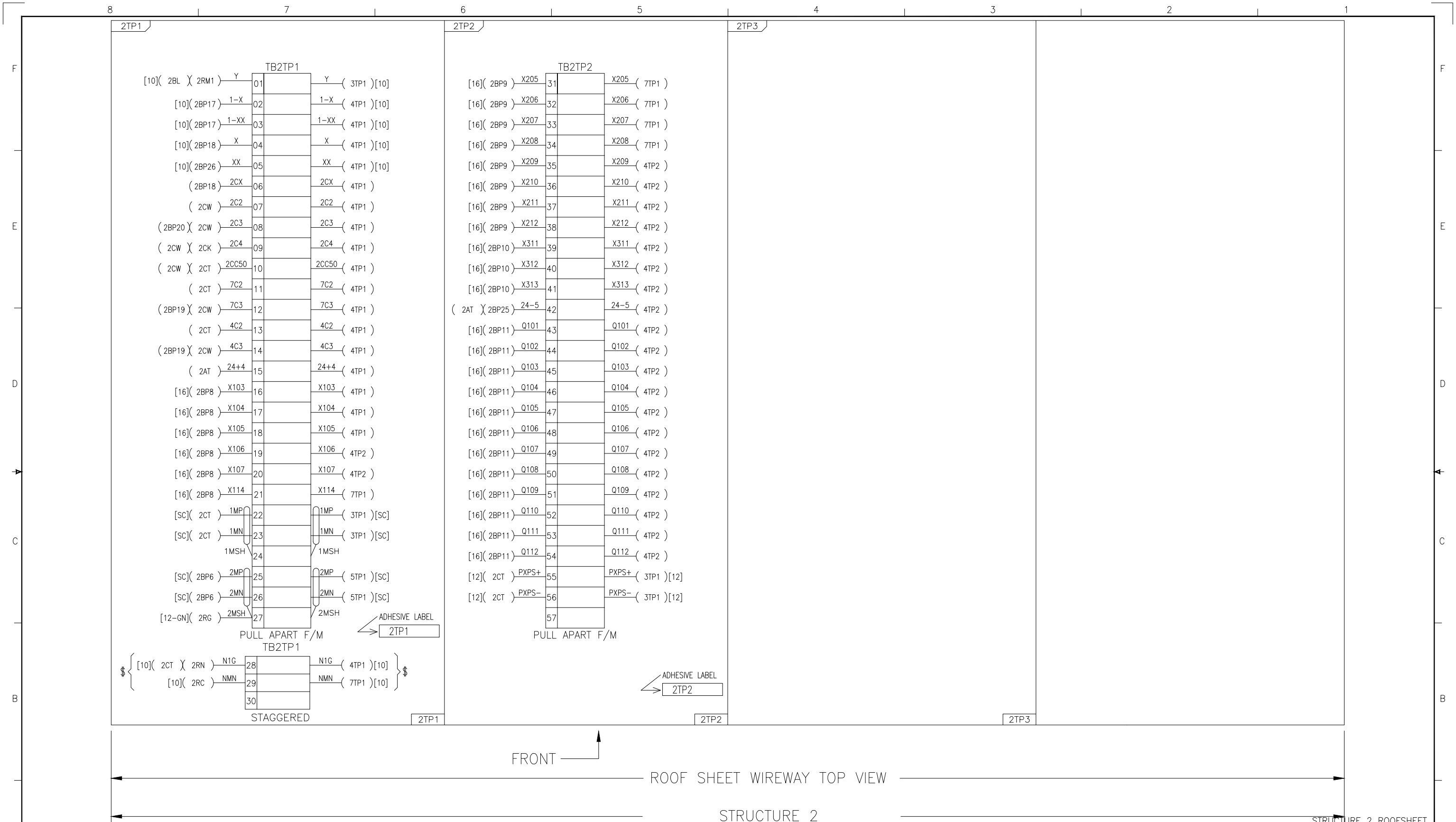
Issued For Construction The information on this document is suitable for use in establishing final installation and construction details.	DFTR POPAT NIMBHORE	DATE 08/19/2025	THE INFORMATION ON THIS DOCUMENT WAS CREATED BY EATON CORPORATION. IT WAS DISCLOSED IN CONFIDENCE AND IS ONLY TO BE USED FOR THE PURPOSE IN WHICH IT WAS SUPPLIED.		
	APPD KENNETH HOWITT	DATE 08/19/2025	TITLE NDS 5 480v Switchgear Replacement HU 2024-27 480V SWGR		
	CAGE CODE 68592	REVISION 1	PRODUCT CODE OL	S.O. LOOGLBH	TYPE MAGNUM DS SWITCHGEAR
		G.O. LOM0036991-002	DWG LOOGLBH-W	SHEET 001	



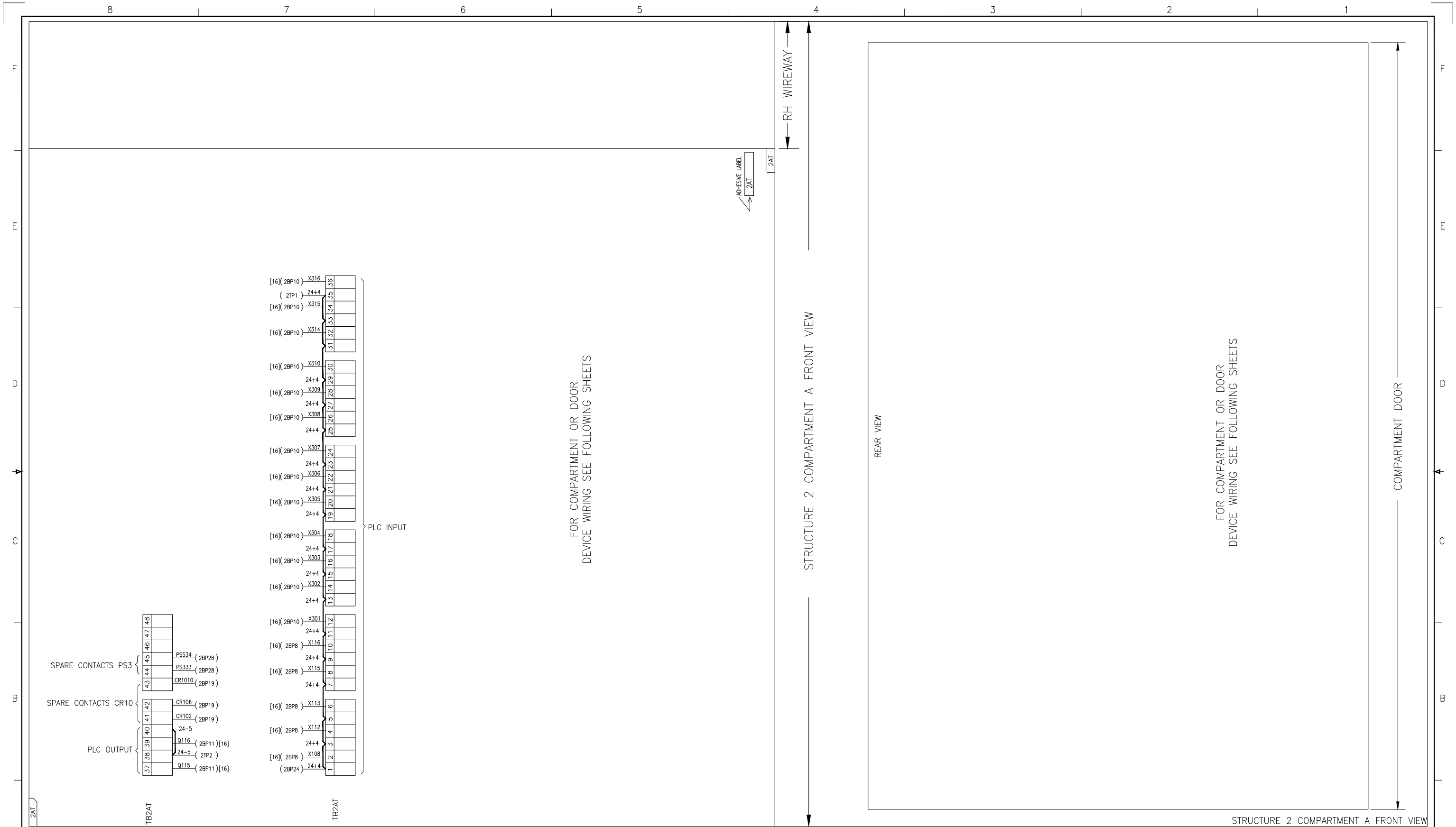
STRUCTURE 1 REAR VIEW

STRUCTURE 1 REAR VIEW

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	APPD KENNETH HOWITT	DATE 08/19/2025	TITLE NDS 5 480v Switchgear Replacement HU 2024-27 480V SWGR			
	PRODUCT CODE OL	S.O. LOOGLBH	TYPE MAGNUM DS SWITCHGEAR		WIRING DIAGRAM	
	CAGE CODE 68592	REVISION 1	G.O. LOM0036991-002	DWG LOOGLBH-W	SHEET 002	



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		APPD KENNETH HOWITT	DATE 08/19/2025		
CAGE CODE 68592	REVISION 1	PRODUCT CODE OL	S.O. LOOGLBH	TITLE NDS 5 480v Switchgear Replacement HU 2024-27 480V SWGR	TYPE MAGNUM DS SWITCHGEAR
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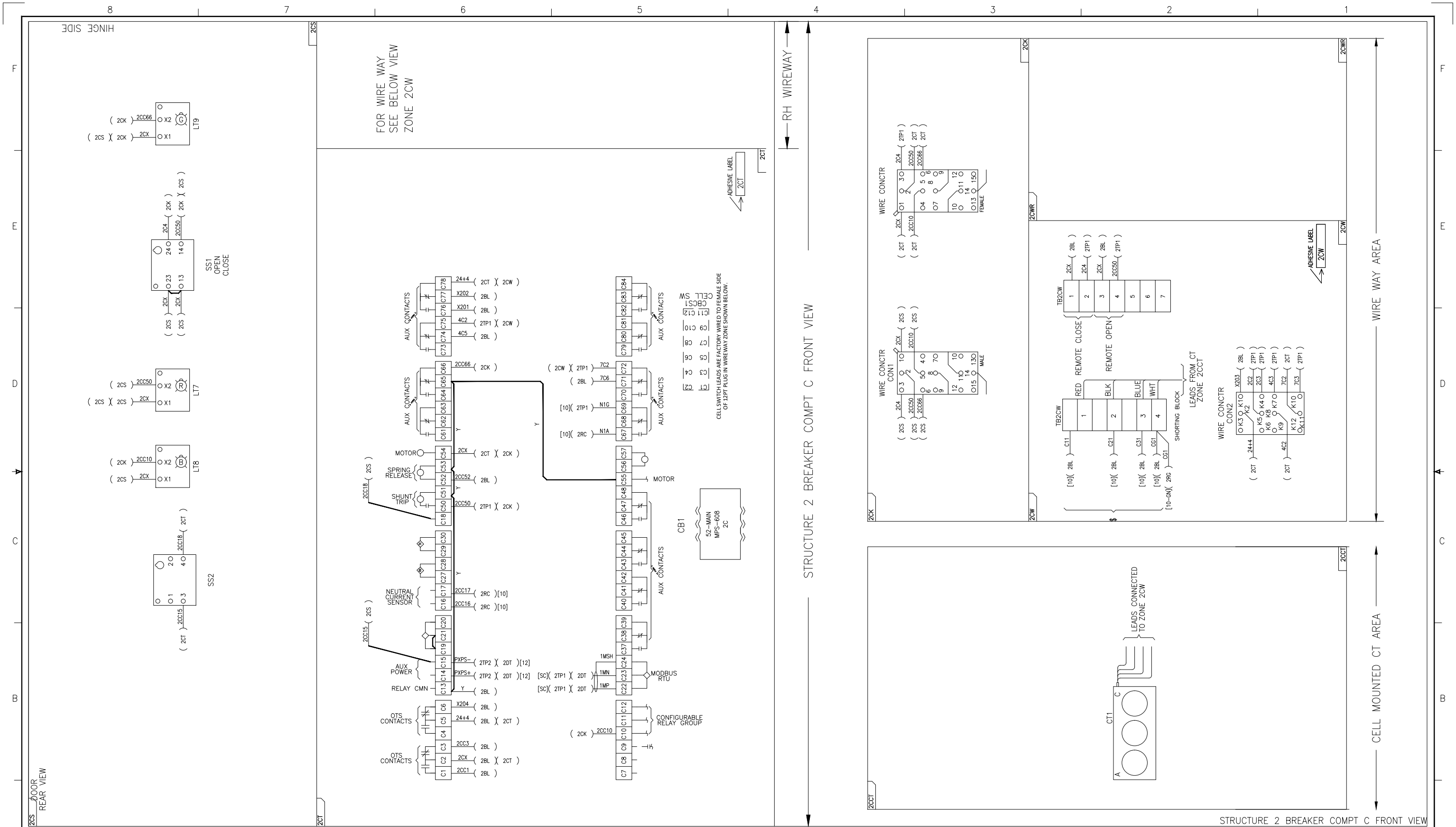
FOR COMPARTMENT OR DOOR
DEVICE WIRING SEE FOLLOWING SHEETS

FOR COMPARTMENT OR DOOR
DEVICE WIRING SEE FOLLOWING SHEETS

STRUCTURE 2 COMPARTMENT A FRONT VIEW

STRUCTURE 2 COMPARTMENT A FRONT VIEW

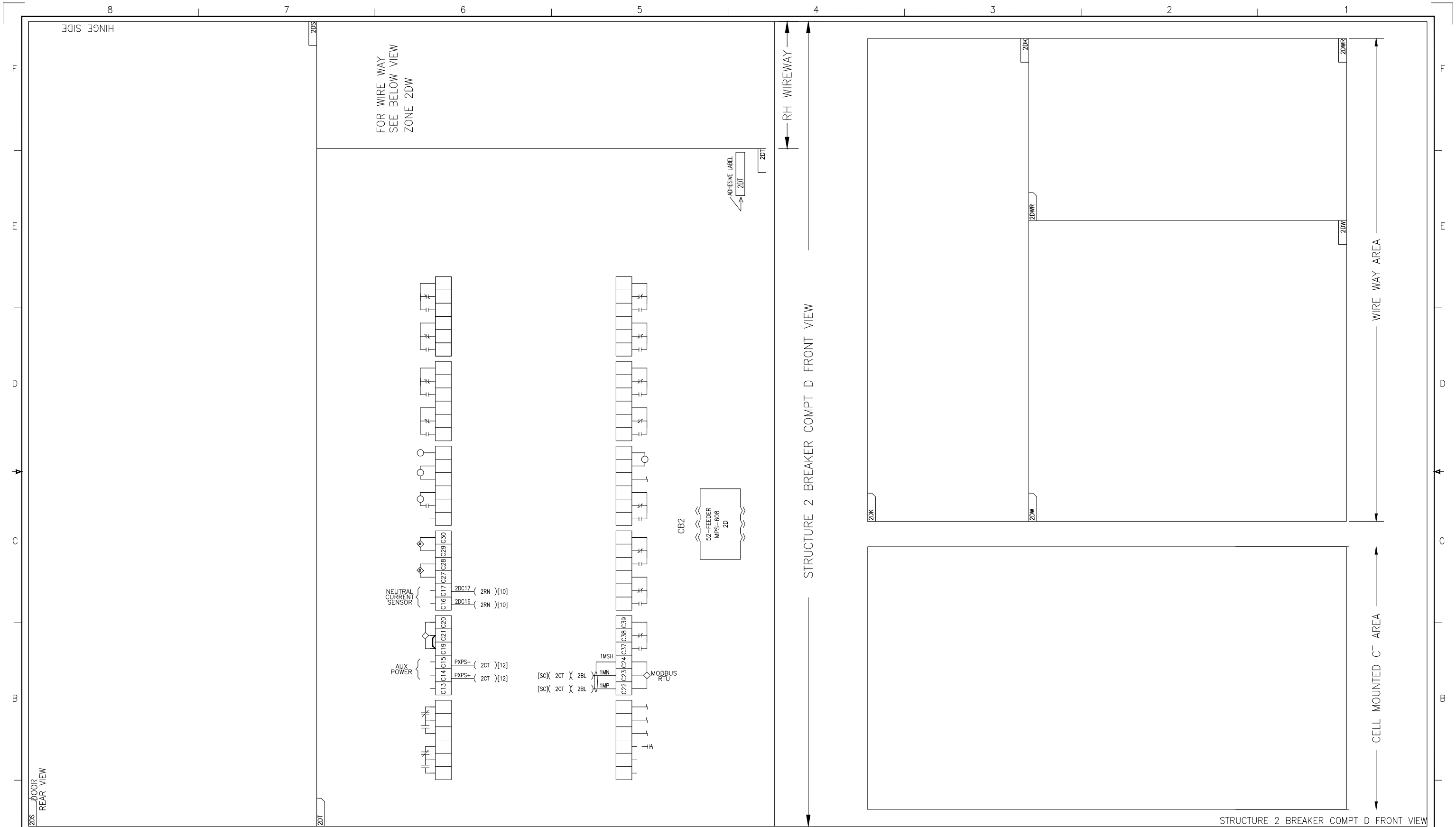
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	APPD KENNETH HOWITT DATE 08/19/2025	DATE 08/19/2025	TITLE NDS 5 480v Switchgear Replacement HU 2024-27 480V SWGR			
	PRODUCT CODE OL	S.O. LOOGLBH	TYPE MAGNUM DS SWITCHGEAR		WIRING DIAGRAM	
	REVISION 1	C.O. LOM0036991-002	DWG LOOGLBH-W	SHEET 004		
CAGE CODE 68592						



STRUCTURE 2 BREAKER COMPT C FRONT VIEW

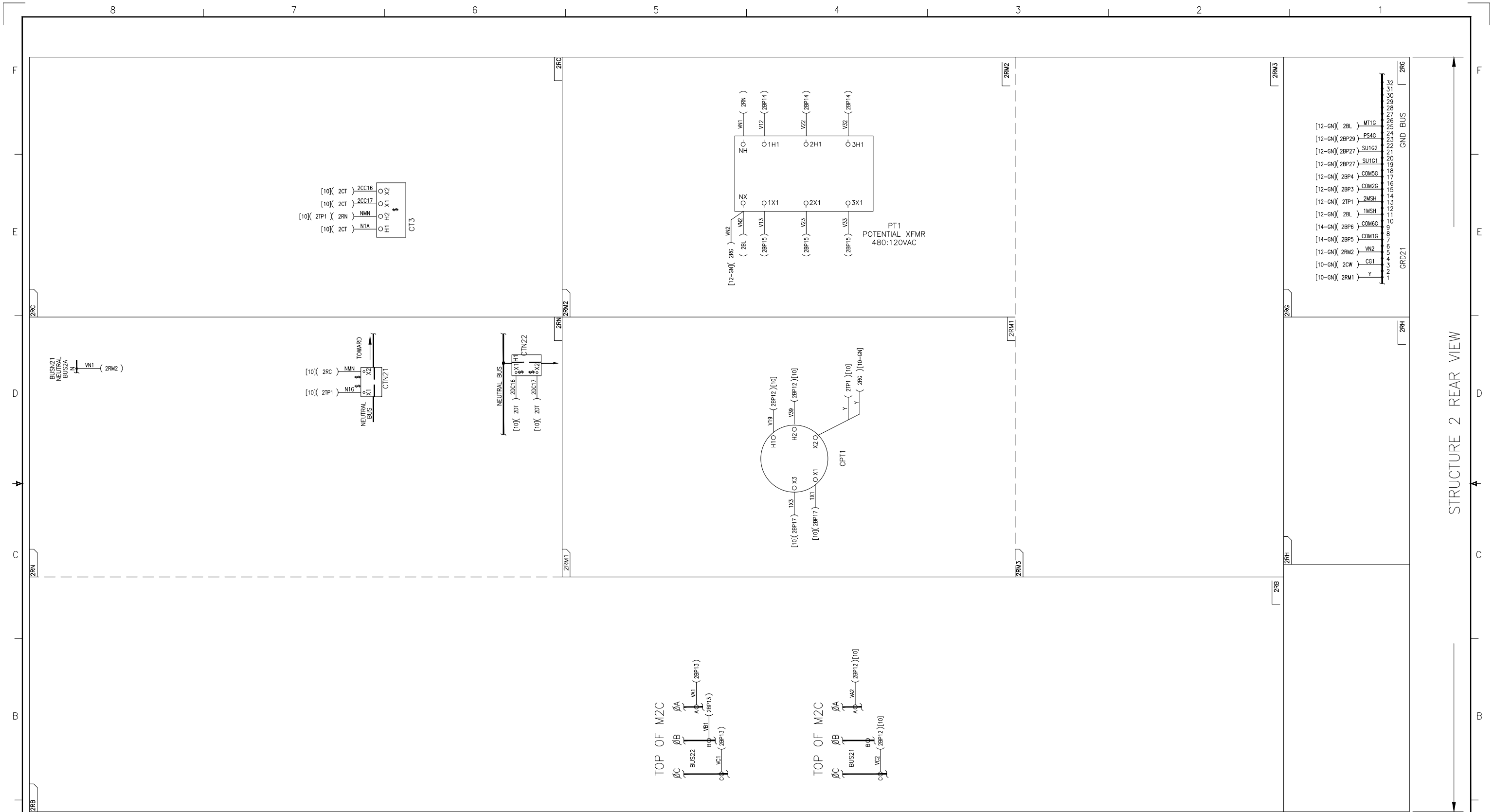
STRUCTURE 2 BREAKER COMPT C FRONT VIEW

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	TITLE NDS 5 480v Switchgear Replacement HU 2024-27 480V SWGR		TYPE MAGNUM DS SWITCHGEAR	
	CAGE CODE 68592	SHEET 005	WIRING DIAGRAM	
	LOM0036991-002		SHEET 005	



STRUCTURE 2 BREAKER COMPT D FRONT VIEW

A	Issued For Construction		DFTR POPAT NIMBHORE	DATE 08/19/2025	THE INFORMATION ON THIS DOCUMENT WAS CREATED BY EATON CORPORATION. IT WAS DISCLOSED IN CONFIDENCE AND IS ONLY TO BE USED FOR THE PURPOSE IN WHICH IT WAS SUPPLIED.		EATON	
	The information on this document is suitable for use in establishing final installation and construction details.		APPD KENNETH HOWITT	DATE 08/19/2025	TITLE NDS 5 480v Switchgear Replacement HU 2024-27 480V SWGR			
			PRODUCT CODE OL	S.O. LOOGLBH	TYPE MAGNUM DS SWITCHGEAR			WIRING DIAGRAM
	CAGE CODE 68592		REVISION 1	G.O. LOM0036991-002		DWG LOOGLBH-W		SHEET 006

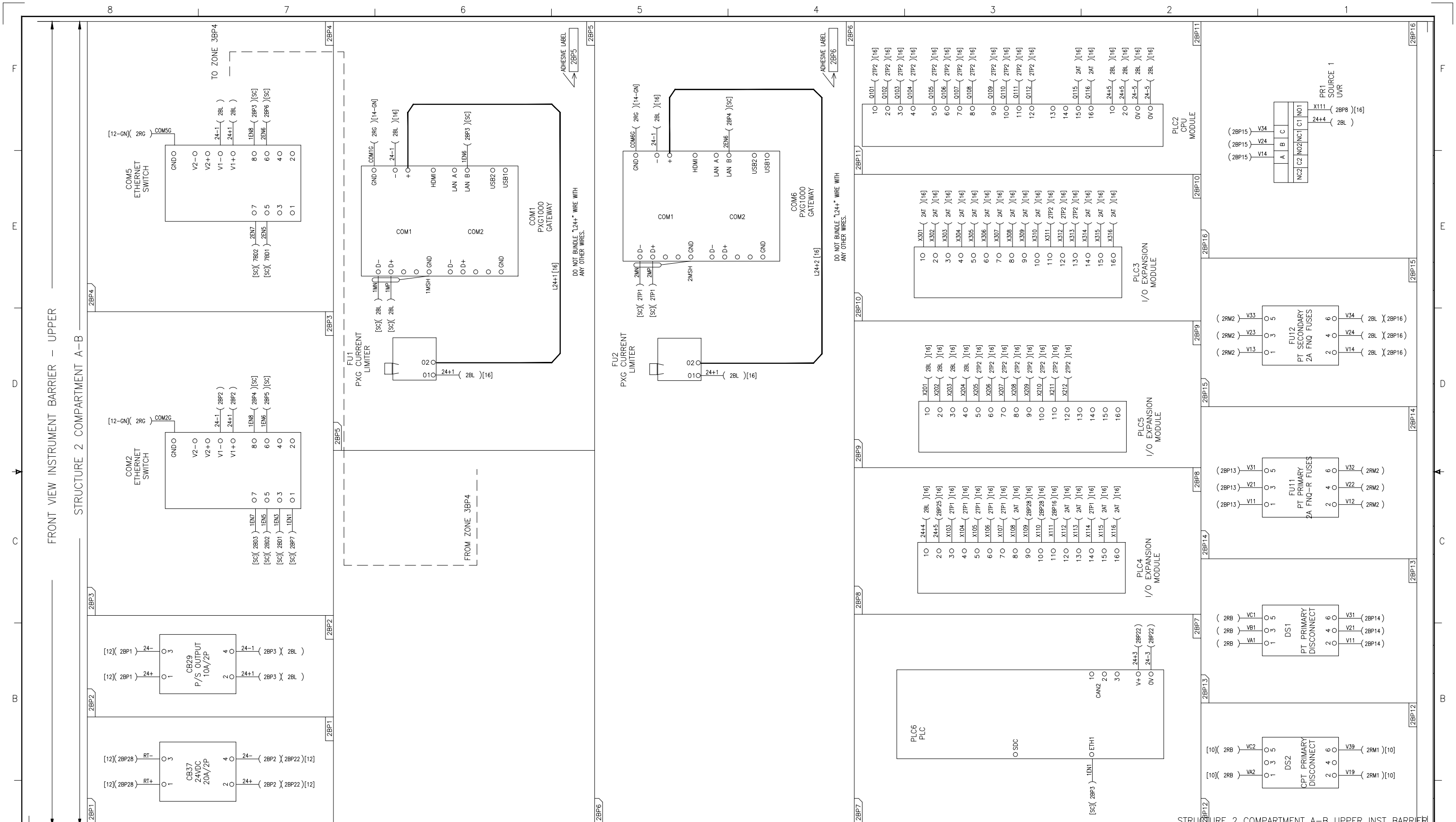


32	[12-GN] (2BL)	MT1G
31	[12-GN] (2BP29)	PS4G
30	[12-GN] (2BP27)	SU1G2
29	[12-GN] (2BP27)	SU1G1
28	[12-GN] (2BP4)	COM5G
27	[12-GN] (2BP3)	COM2G
26	[12-GN] (2BL)	1MSH
25	[12-GN] (2TP1)	2MSH
24	[14-GN] (2BP6)	COM6G
23	[14-GN] (2BP5)	COM1G
22	[12-GN] (2RM2)	VN2
21	[10-GN] (2CW)	CG1
20	[10-GN] (2RM1)	Y
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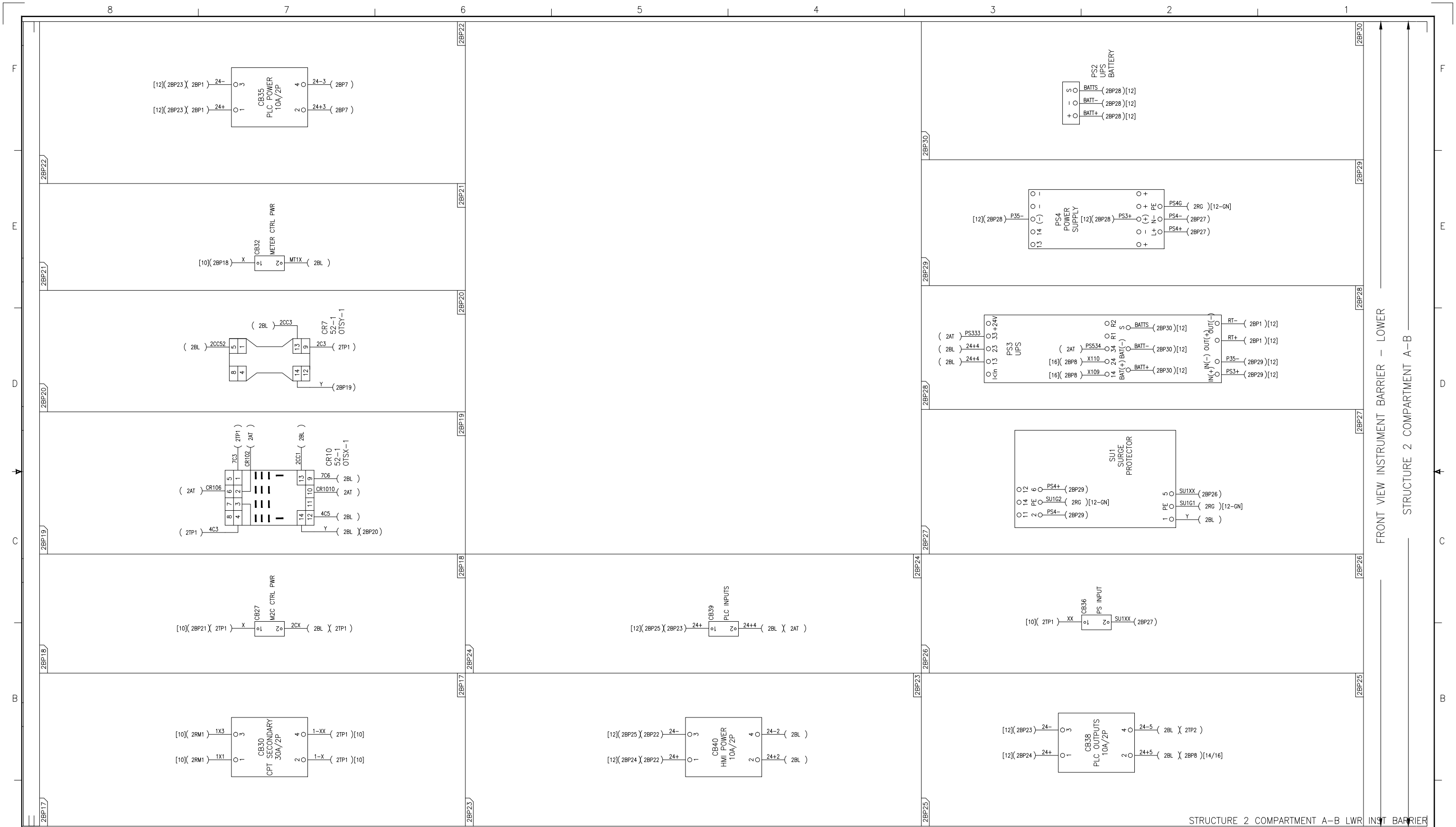
STRUCTURE 2 REAR VIEW

STRUCTURE 2 REAR VIEW

<p>Issued For Construction</p> <p>The information on this document is suitable for use in establishing final installation and construction details.</p>	<p>DFTR POPAT NIMBHORE</p> <p>DATE 08/19/2025</p>	<p>DATE 08/19/2025</p>	<p>THE INFORMATION ON THIS DOCUMENT WAS CREATED BY EATON CORPORATION. IT WAS DISCLOSED IN CONFIDENCE AND IS ONLY TO BE USED FOR THE PURPOSE IN WHICH IT WAS SUPPLIED.</p>		
	<p>APPD KENNETH HOWITT</p> <p>DATE 08/19/2025</p>	<p>TITLE NDS 5 480v Switchgear Replacement HU 2024-27</p> <p>480V SWGR</p>			
	<p>PRODUCT CODE OL</p> <p>REVISION 1</p>	<p>S.O. LOOGLBH</p>	<p>TYPE MAGNUM DS SWITCHGEAR</p>	<p>WIRING DIAGRAM</p>	
	<p>CAGE CODE 68592</p>	<p>REVISION 1</p>	<p>G.O. LOM0036991-002</p>	<p>DWG LOOGLBH-W</p>	<p>SHEET 007</p>



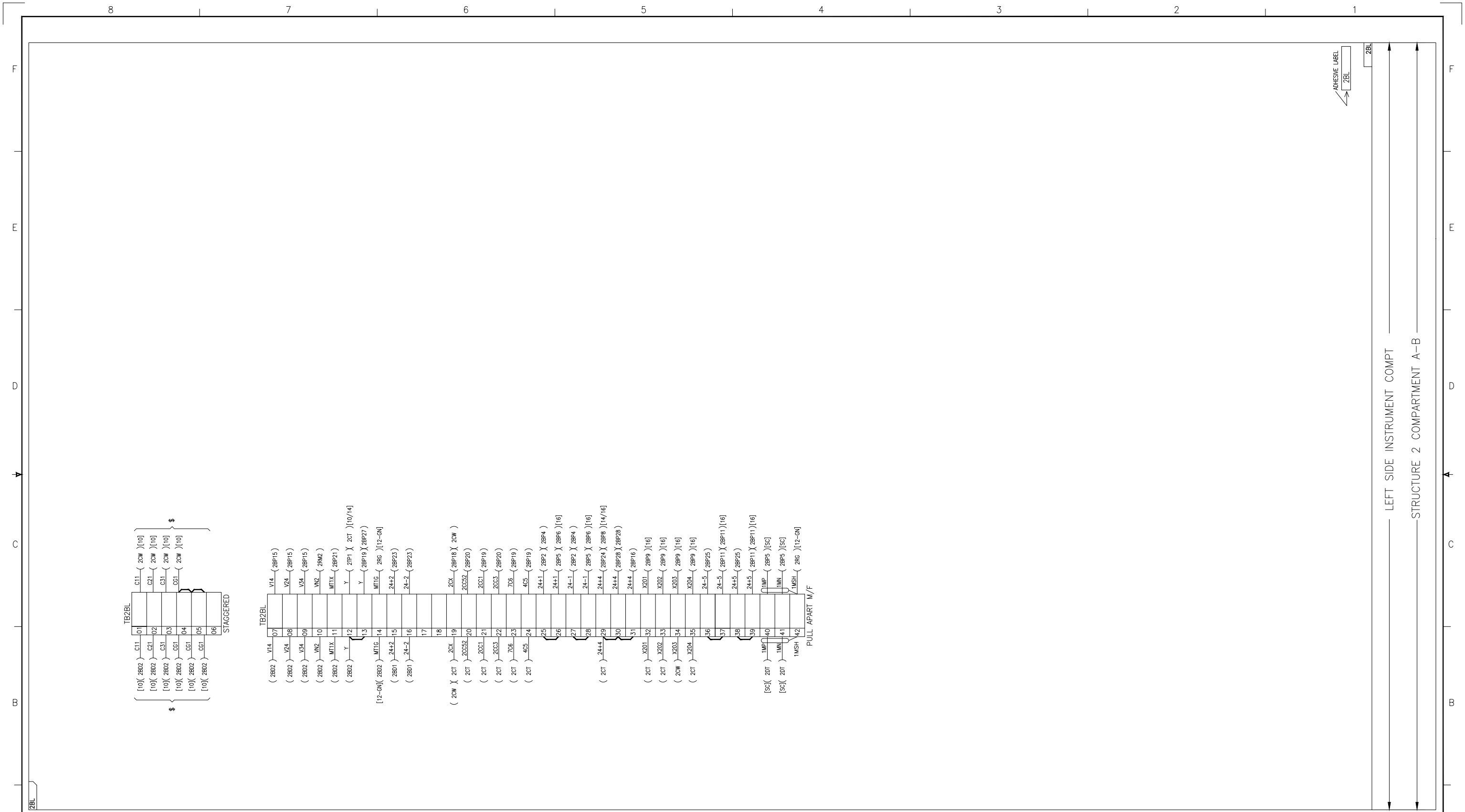
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The information on this document is suitable for use in establishing final installation and construction details.		APPD KENNETH HOWITT	DATE 08/19/2025	TITLE NDS 5 480v Switchgear Replacement HU 2024-27 480V SWGR	
CAGE CODE 68592	REVISION 1	PRODUCT CODE OL	S.O. LOOGLBH	TYPE MAGNUM DS SWITCHGEAR	WIRING DIAGRAM
		G.O. LOM0036991-002		DWG LOOGLBH-W	SHEET 008



FRONT VIEW INSTRUMENT BARRIER - LOWER
STRUCTURE 2 COMPARTMENT A-B

STRUCTURE 2 COMPARTMENT A-B LWR INST BARRIER

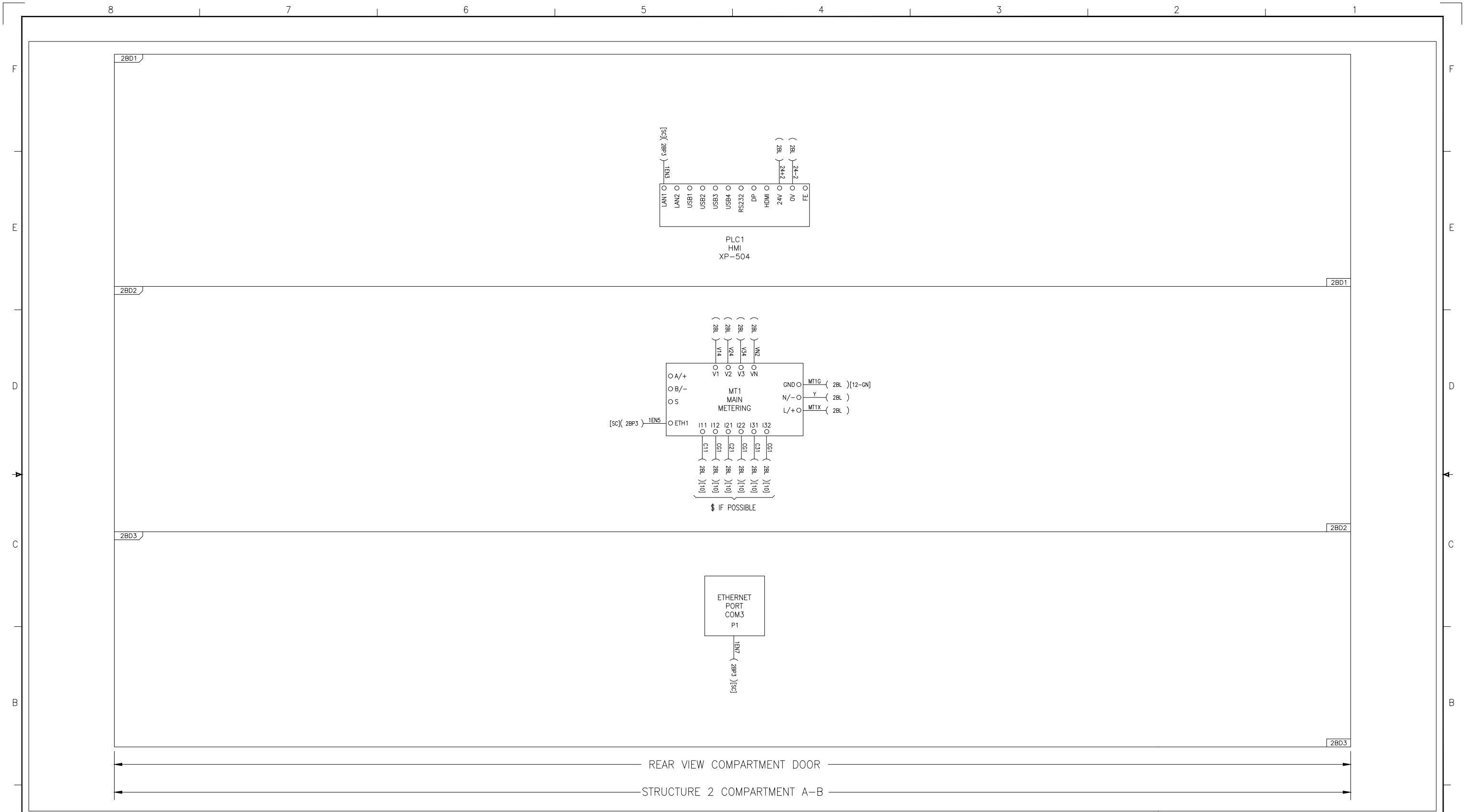
Issued For Construction The information on this document is suitable for use in establishing final installation and construction details.	DFTR POPAT NIMBHORE APPD KENNETH HOWITT PRODUCT CODE OL REVISION 1	DATE 08/19/2025 DATE 08/19/2025 S.O. LOOGLBH	THE INFORMATION ON THIS DOCUMENT WAS CREATED BY EATON CORPORATION. IT WAS DISCLOSED IN CONFIDENCE AND IS ONLY TO BE USED FOR THE PURPOSE IN WHICH IT WAS SUPPLIED.	EATON
	CAGE CODE 68592	TITLE NDS 5 480v Switchgear Replacement HU 2024-27 480V SWGR	TYPE MAGNUM DS SWITCHGEAR	DWG LOOGLBH-W



STRUCTURE 2 COMPARTMENT A-B LEFT SIDE

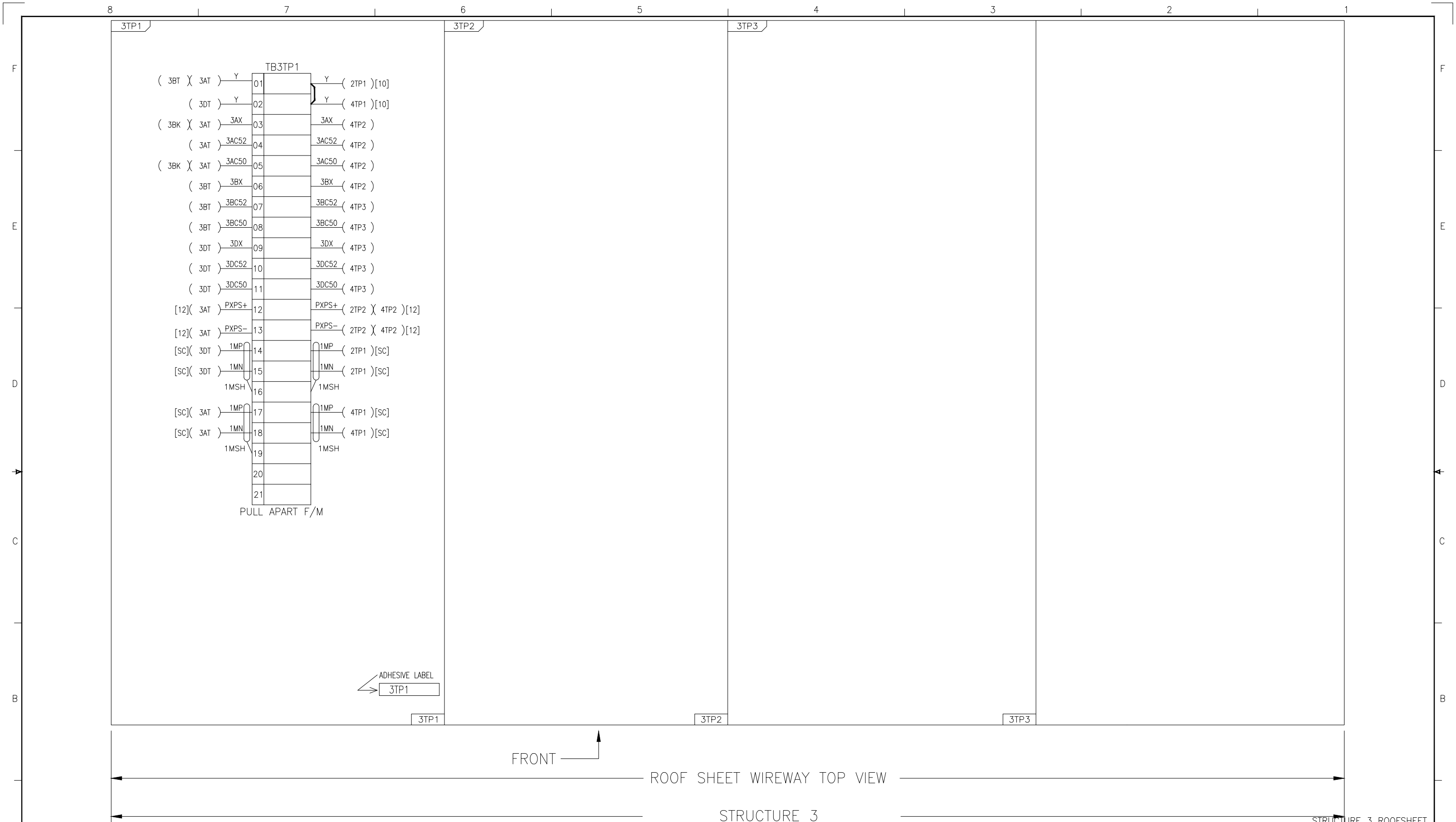
A	F	E	D	C	B	A
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Issued For Construction	DFTR	DATE	THE INFORMATION ON THIS DOCUMENT WAS CREATED BY EATON CORPORATION. IT WAS DISCLOSED IN CONFIDENCE AND IS ONLY TO BE USED FOR THE PURPOSE IN WHICH IT WAS SUPPLIED. EATON	
	POPAT NIMBHORE	08/19/2025		
The information on this document is suitable for use in establishing final installation and construction details.	APPD	DATE	TITLE NDS 5 480v Switchgear Replacement HU 2024-27 480V SWGR	
	KENNETH HOWITT	08/19/2025		
CAGE CODE 68592	PRODUCT CODE	S.O.	TYPE MAGNUM DS SWITCHGEAR	
	OL	LOOGLBH		
REVISION 1	DWG LOOGLBH-W		SHEET 010	
	G.O. LOM0036991-002			



STRUCTURE 2 COMPARTMENT A DOOR

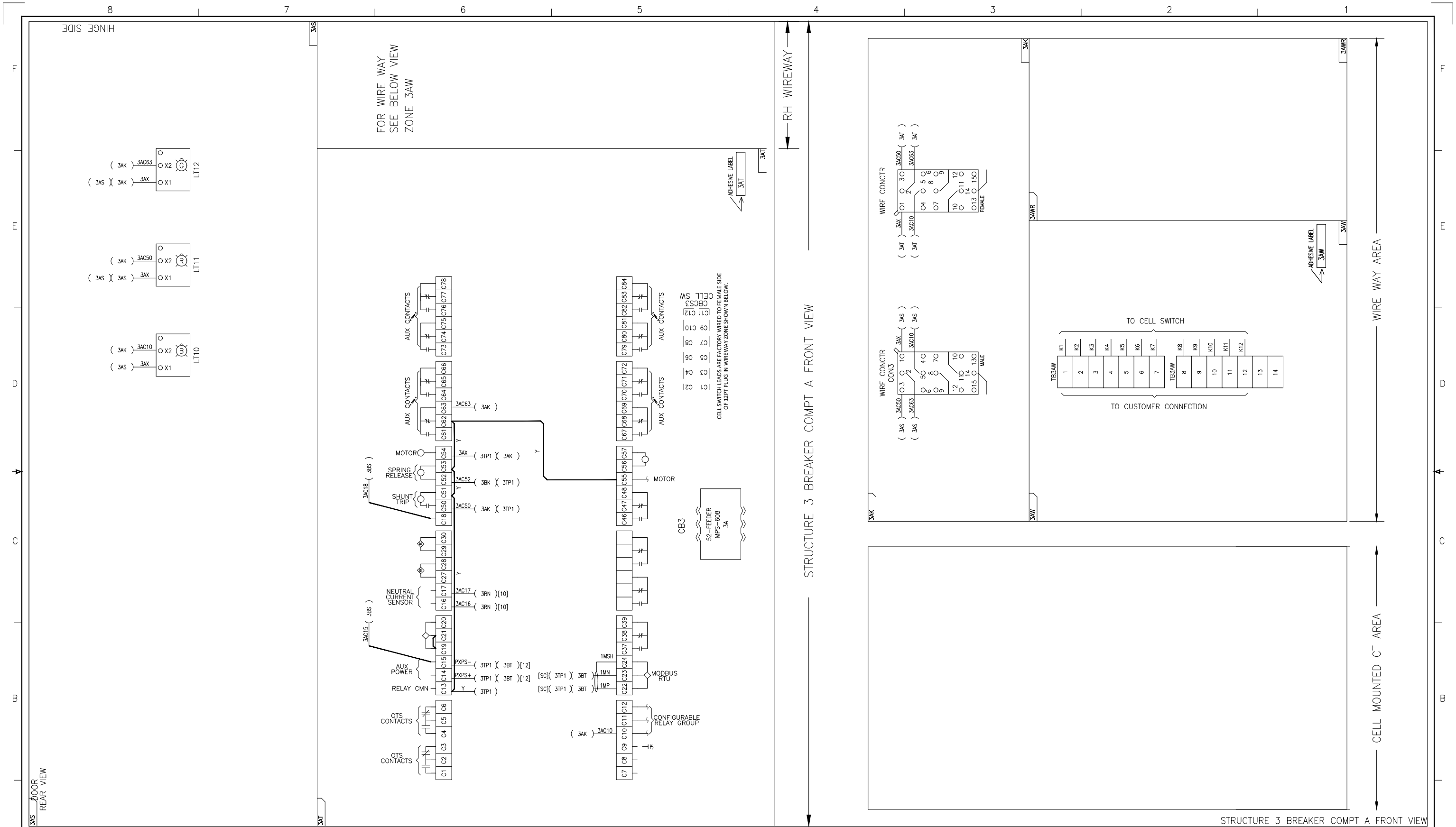
	Issued For Construction	DFTR POPAT NIMBHORE	DATE 08/19/2025	THE INFORMATION ON THIS DOCUMENT WAS CREATED BY EATON CORPORATION. IT WAS DISCLOSED IN CONFIDENCE AND IS ONLY TO BE USED FOR THE PURPOSE IN WHICH IT WAS SUPPLIED.			
	The information on this document is suitable for use in establishing final installation and construction details.	APPD KENNETH HOWITT	DATE 08/19/2025	TITLE NDS 5 480v Switchgear Replacement HU 2024-27 480V SWGR			
	CAGE CODE 68592	PRODUCT CODE OL	S.O. LOOGLBH	TYPE MAGNUM DS SWITCHGEAR			WIRING DIAGRAM
	REVISION 1	G.O. LOM0036991-002	DWG LOOGLBH-W	SHEET 011			



FRONT ↑
ROOF SHEET WIREWAY TOP VIEW
STRUCTURE 3

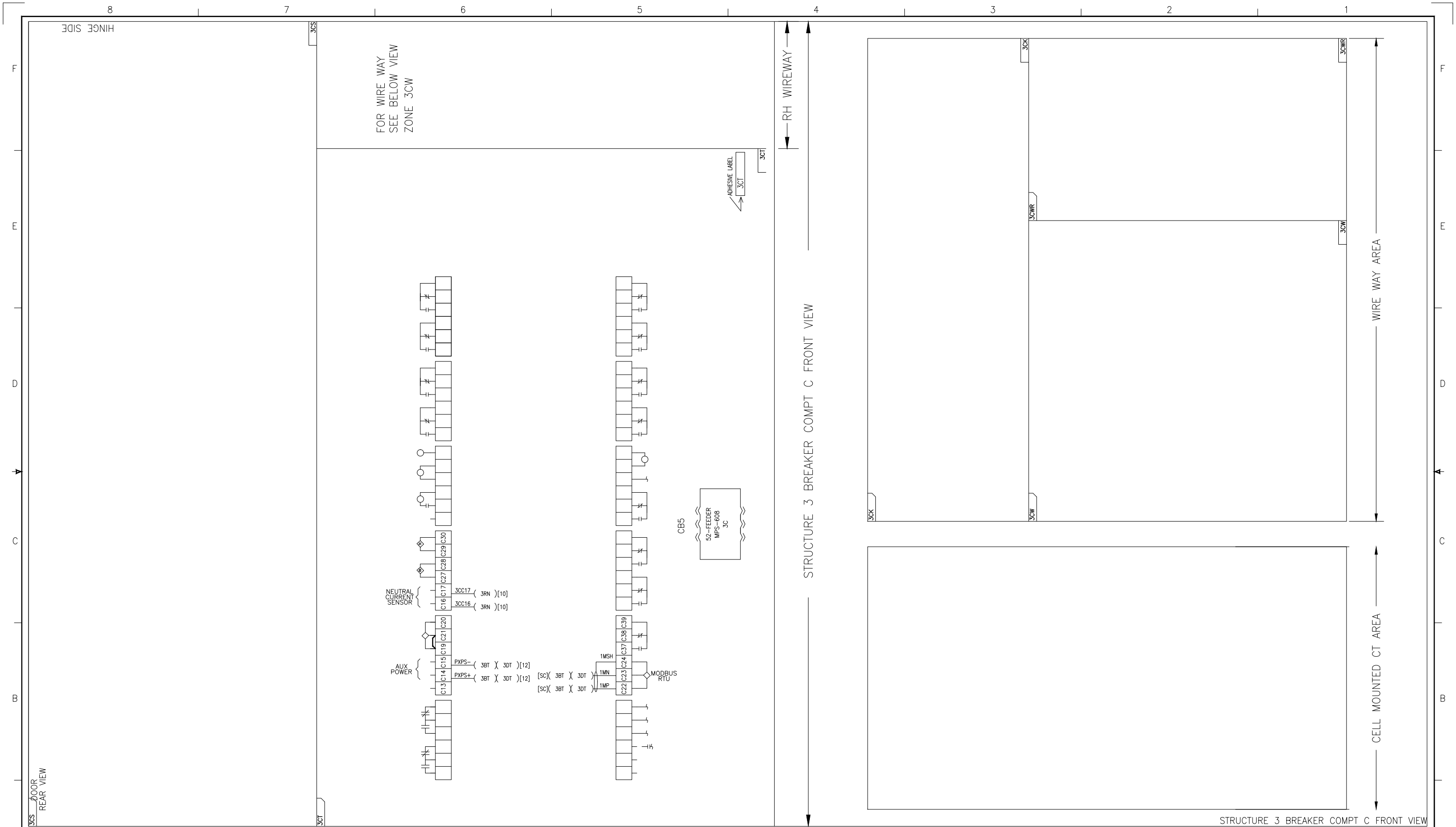
STRUCTURE 3 ROOFSHEET

<p>Issued For Construction</p> <p>The information on this document is suitable for use in establishing final installation and construction details.</p>	DFTR	DATE	THE INFORMATION ON THIS DOCUMENT WAS CREATED BY EATON CORPORATION. IT WAS DISCLOSED IN CONFIDENCE AND IS ONLY TO BE USED FOR THE PURPOSE IN WHICH IT WAS SUPPLIED.		EATON
	POPAT NIMBHORE	08/19/2025			
	APPD	DATE	TITLE NDS 5 480v Switchgear Replacement HU 2024-27 480V SWGR		WIRING DIAGRAM
	KENNETH HOWITT	08/19/2025			
CAGE CODE	REVISION	S.O.	G.O.	DWG	SHEET
68592	1	LOOGLBH	LOM0036991-002	LOOGLBH-W	012



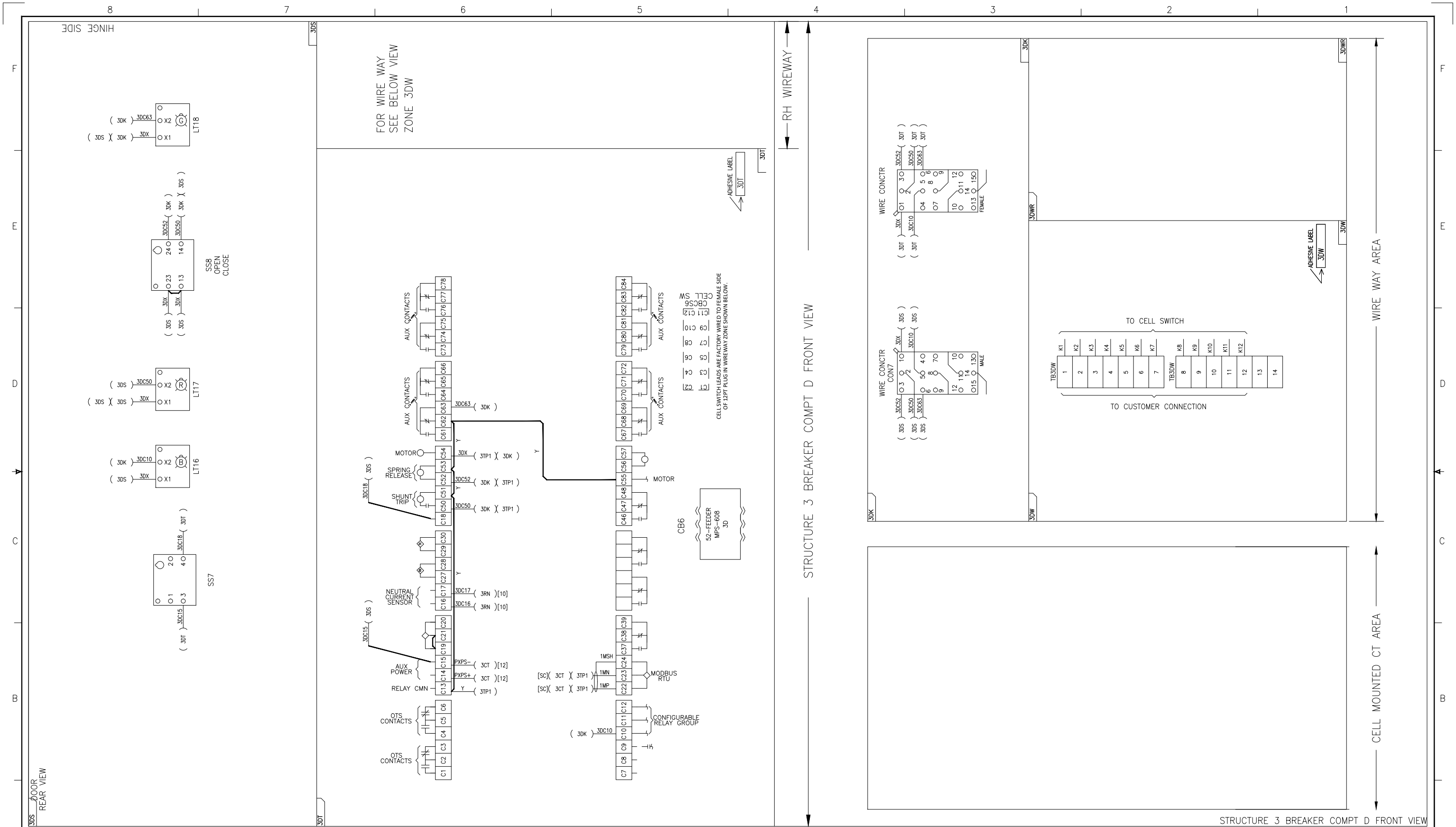
STRUCTURE 3 BREAKER COMPT A FRONT VIEW

Issued For Construction The information on this document is suitable for use in establishing final installation and construction details.	DFTR POPAT NIMBHORE APPD KENNETH HOWITT PRODUCT CODE OL REVISION 1	DATE 08/19/2025 DATE 08/19/2025 S.O. LOOGLBH DWG LOOGLBH-W	THE INFORMATION ON THIS DOCUMENT WAS CREATED BY EATON CORPORATION. IT WAS DISCLOSED IN CONFIDENCE AND IS ONLY TO BE USED FOR THE PURPOSE IN WHICH IT WAS SUPPLIED.	EATON
	CAGE CODE 68592	TITLE NDS 5 480v Switchgear Replacement HU 2024-27 480V SWGR	TYPE MAGNUM DS SWITCHGEAR	SHEET 013
	LOM0036991-002	WIRING DIAGRAM	SHEET 013	COEFIDL_R7

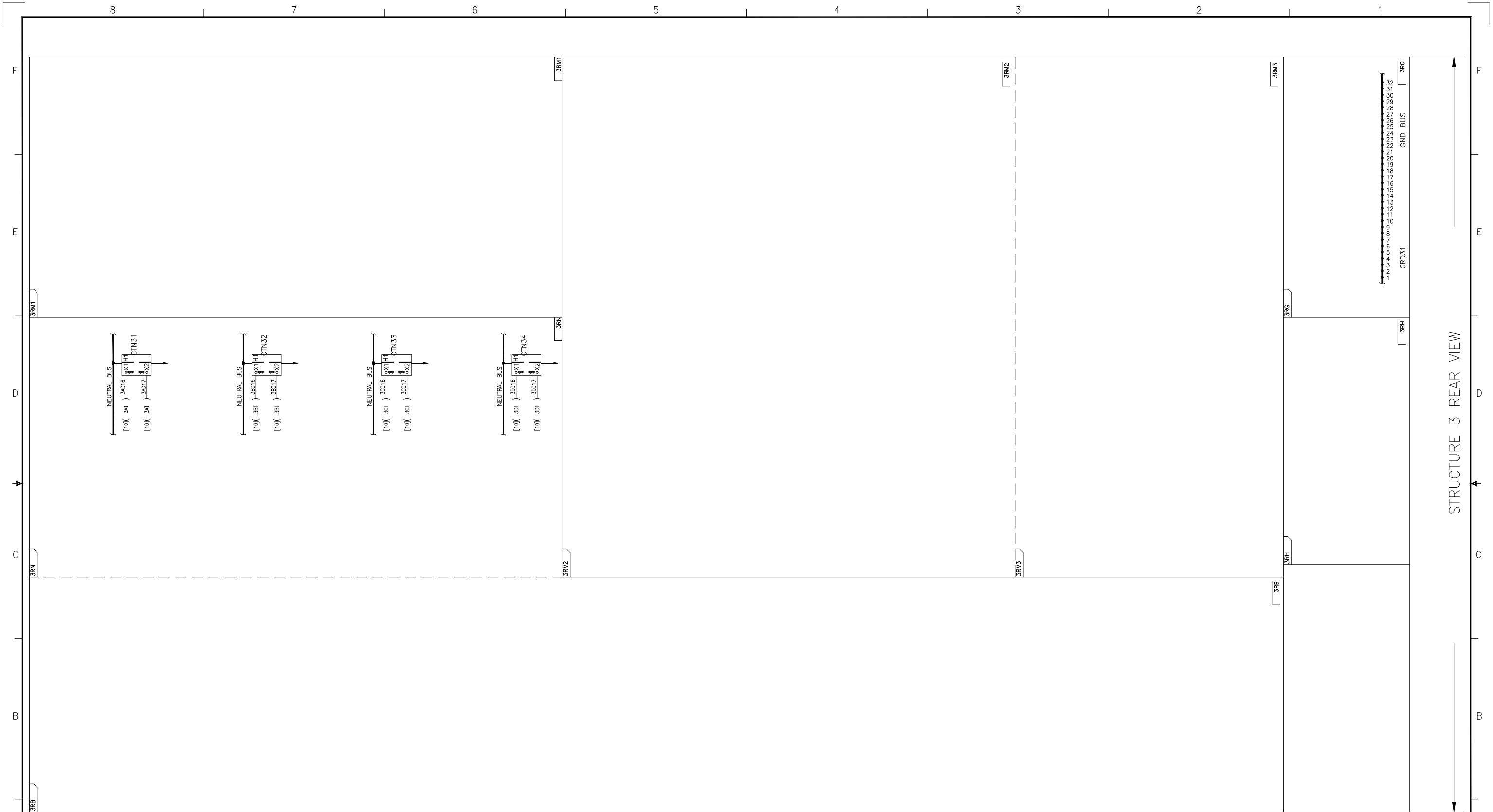


STRUCTURE 3 BREAKER COMPT C FRONT VIEW

<p>Issued For Construction</p> <p>The information on this document is suitable for use in establishing final installation and construction details.</p>	DFTR POPAT NIMBHORE	DATE 08/19/2025	THE INFORMATION ON THIS DOCUMENT WAS CREATED BY EATON CORPORATION. IT WAS DISCLOSED IN CONFIDENCE AND IS ONLY TO BE USED FOR THE PURPOSE IN WHICH IT WAS SUPPLIED.			EATON
	APPD KENNETH HOWITT	DATE 08/19/2025	TITLE NDS 5 480v Switchgear Replacement HU 2024-27 480V SWGR			
	PRODUCT CODE OL	S.O. LOOGLBH	TYPE MAGNUM DS SWITCHGEAR		WIRING DIAGRAM	
	CAGE CODE 68592	REVISION 1	G.O. LOM0036991-002	DWG LOOGLBH-W	SHEET 015	



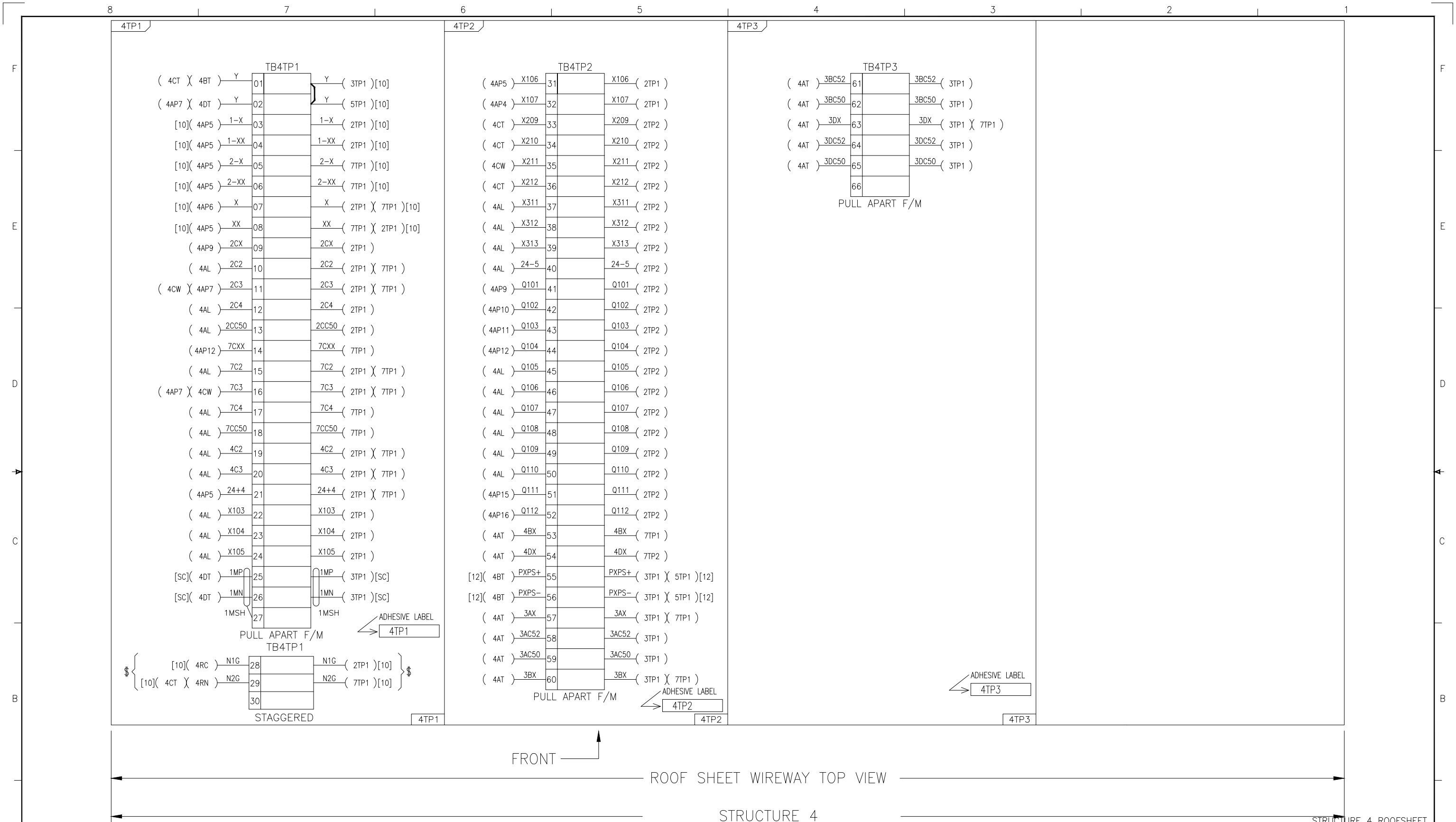
<p>Issued For Construction</p> <p>The information on this document is suitable for use in establishing final installation and construction details.</p>		<p>DFTR POPAT NIMBHORE</p> <p>DATE 08/19/2025</p>	<p>DATE 08/19/2025</p> <p>TITLE NDS 5 480v Switchgear Replacement HU 2024-27 480V SWGR</p>	<p>THE INFORMATION ON THIS DOCUMENT WAS CREATED BY EATON CORPORATION. IT WAS DISCLOSED IN CONFIDENCE AND IS ONLY TO BE USED FOR THE PURPOSE IN WHICH IT WAS SUPPLIED.</p> <p>EATON</p>	
<p>APPD KENNETH HOWITT</p> <p>DATE 08/19/2025</p>	<p>PRODUCT CODE OL</p> <p>S.O. LOOGLBH</p>	<p>TYPE MAGNUM DS SWITCHGEAR</p>	<p>WIRING DIAGRAM</p>		
<p>REVISION 1</p>	<p>CAGE CODE 68592</p>	<p>G.O. LOM0036991-002</p>	<p>DWG LOOGLBH-W</p>	<p>SHEET 016</p>	<p>COEFIDL_R7</p>



STRUCTURE 3 REAR VIEW

STRUCTURE 3 REAR VIEW

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	APPD KENNETH HOWITT	DATE 08/19/2025	TITLE NDS 5 480v Switchgear Replacement HU 2024-27 480V SWGR			
	PRODUCT CODE OL	S.O. LOOGLBH	TYPE MAGNUM DS SWITCHGEAR		WIRING DIAGRAM	
	CAGE CODE 68592	REVISION 1	G.O. LOM0036991-002	DWG LOOGLBH-W	SHEET 017	



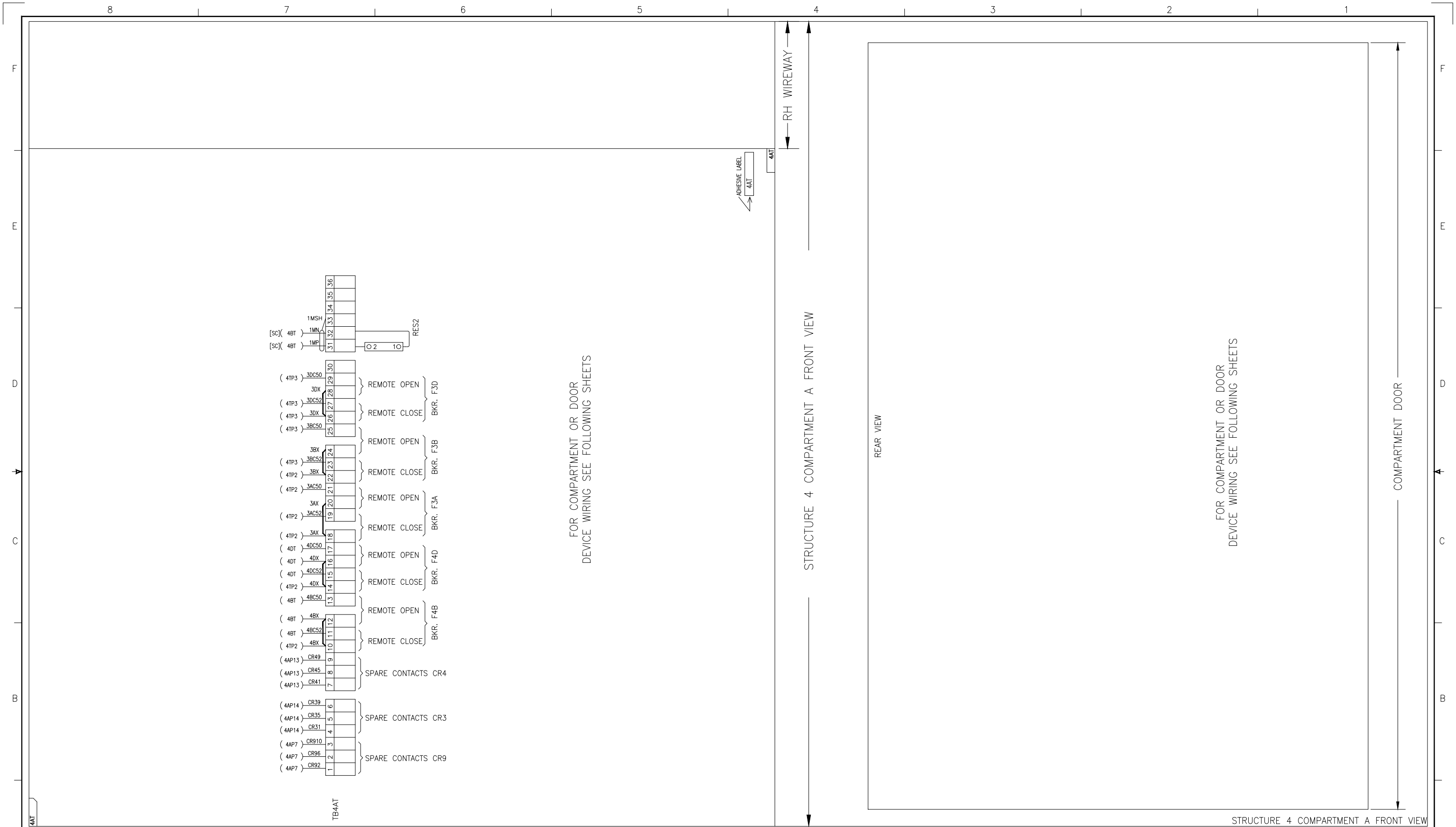
FRONT →

ROOF SHEET WIREWAY TOP VIEW

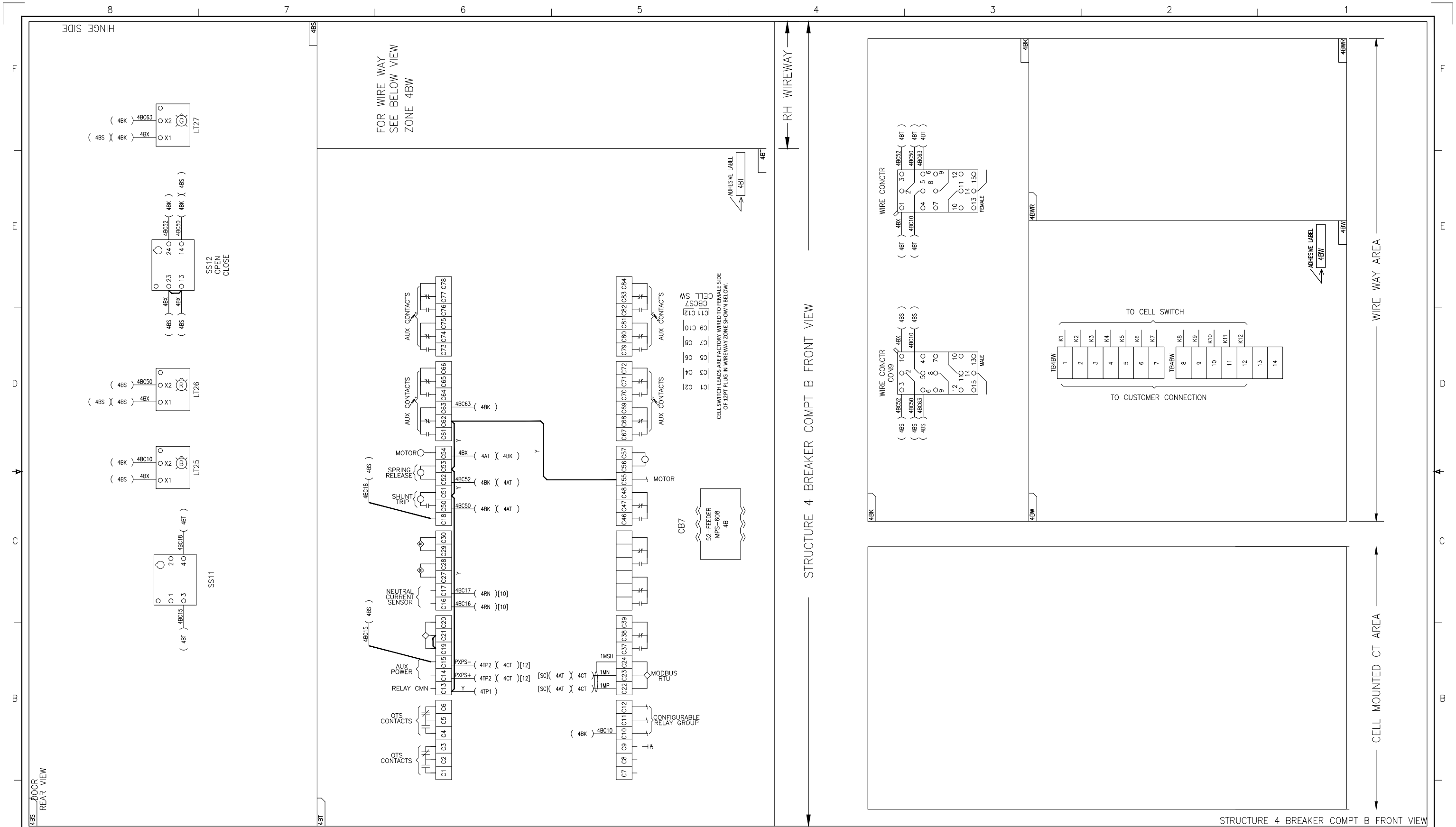
STRUCTURE 4

STRUCTURE 4 ROOFSHEET

Issued For Construction The information on this document is suitable for use in establishing final installation and construction details.	DFTR	POPAT NIMBHORE	DATE	08/19/2025	THE INFORMATION ON THIS DOCUMENT WAS CREATED BY EATON CORPORATION. IT WAS DISCLOSED IN CONFIDENCE AND IS ONLY TO BE USED FOR THE PURPOSE IN WHICH IT WAS SUPPLIED.							
	APPD	KENNETH HOWITT	DATE	08/19/2025								
	PRODUCT CODE	OL	S.O.	LOOGLBH	TITLE	NDS 5 480v Switchgear Replacement HU 2024-27	480V SWGR					
CAGE CODE	68592	REVISION	1	G.O.	LOM0036991-002	DWG	LOOGLBH-W	TYPE	MAGNUM DS SWITCHGEAR	WIRING DIAGRAM	SHEET	018



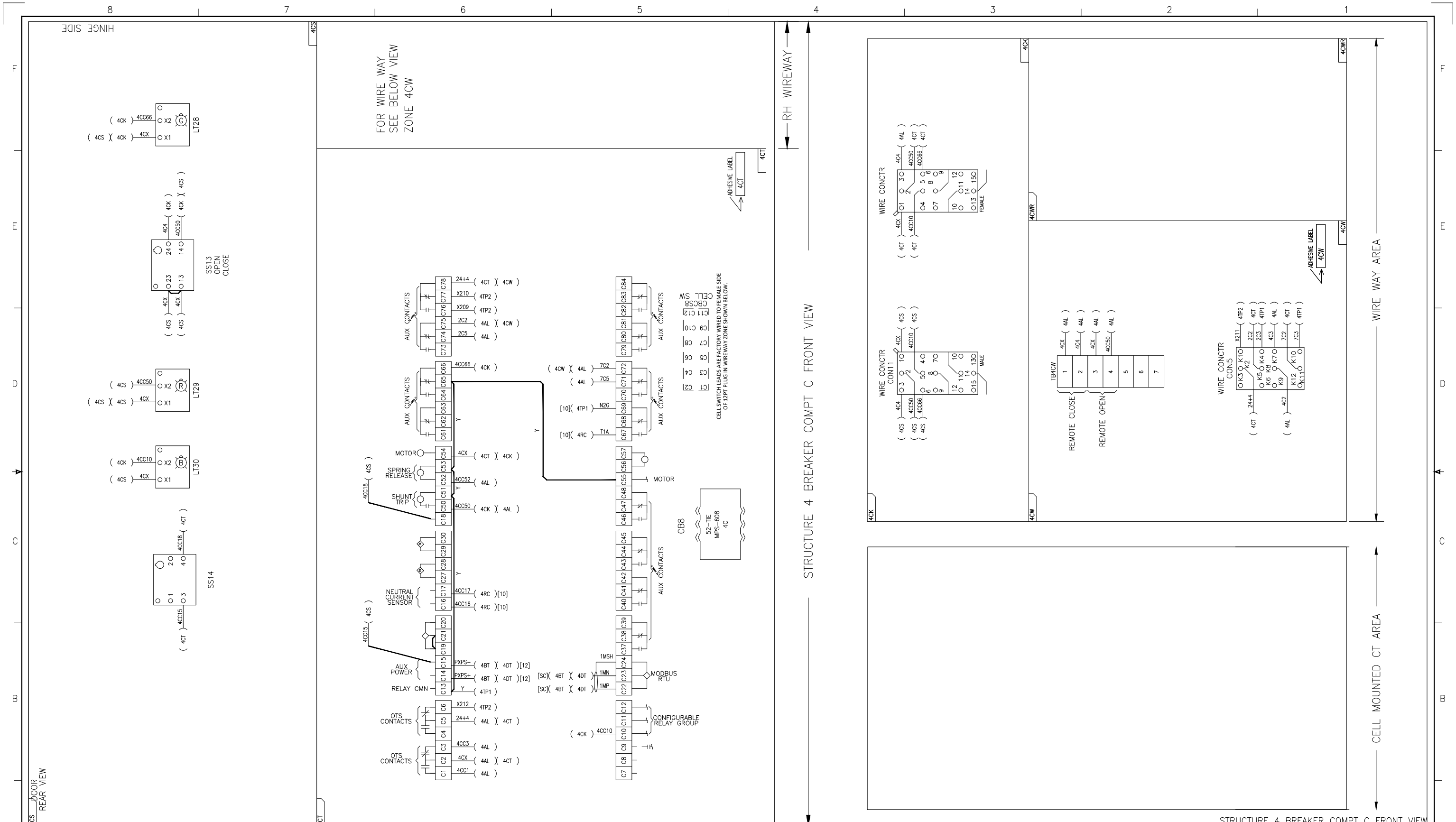
<p>Issued For Construction</p> <p>The information on this document is suitable for use in establishing final installation and construction details.</p>		DFTR POPAT NIMBHORE	DATE 08/19/2025	THE INFORMATION ON THIS DOCUMENT WAS CREATED BY EATON CORPORATION. IT WAS DISCLOSED IN CONFIDENCE AND IS ONLY TO BE USED FOR THE PURPOSE IN WHICH IT WAS SUPPLIED.	
		APPD KENNETH HOWITT	DATE 08/19/2025	TITLE NDS 5 480v Switchgear Replacement HU 2024-27 480V SWGR	
CAGE CODE 68592	REVISION 1	PRODUCT CODE OL	S.O. LOOGLBH	TYPE MAGNUM DS SWITCHGEAR	WIRING DIAGRAM
		G.O. LOM0036991-002	DWG LOOGLBH-W	SHEET 019	



STRUCTURE 4 BREAKER COMPT B FRONT VIEW

STRUCTURE 4 BREAKER COMPT B FRONT VIEW

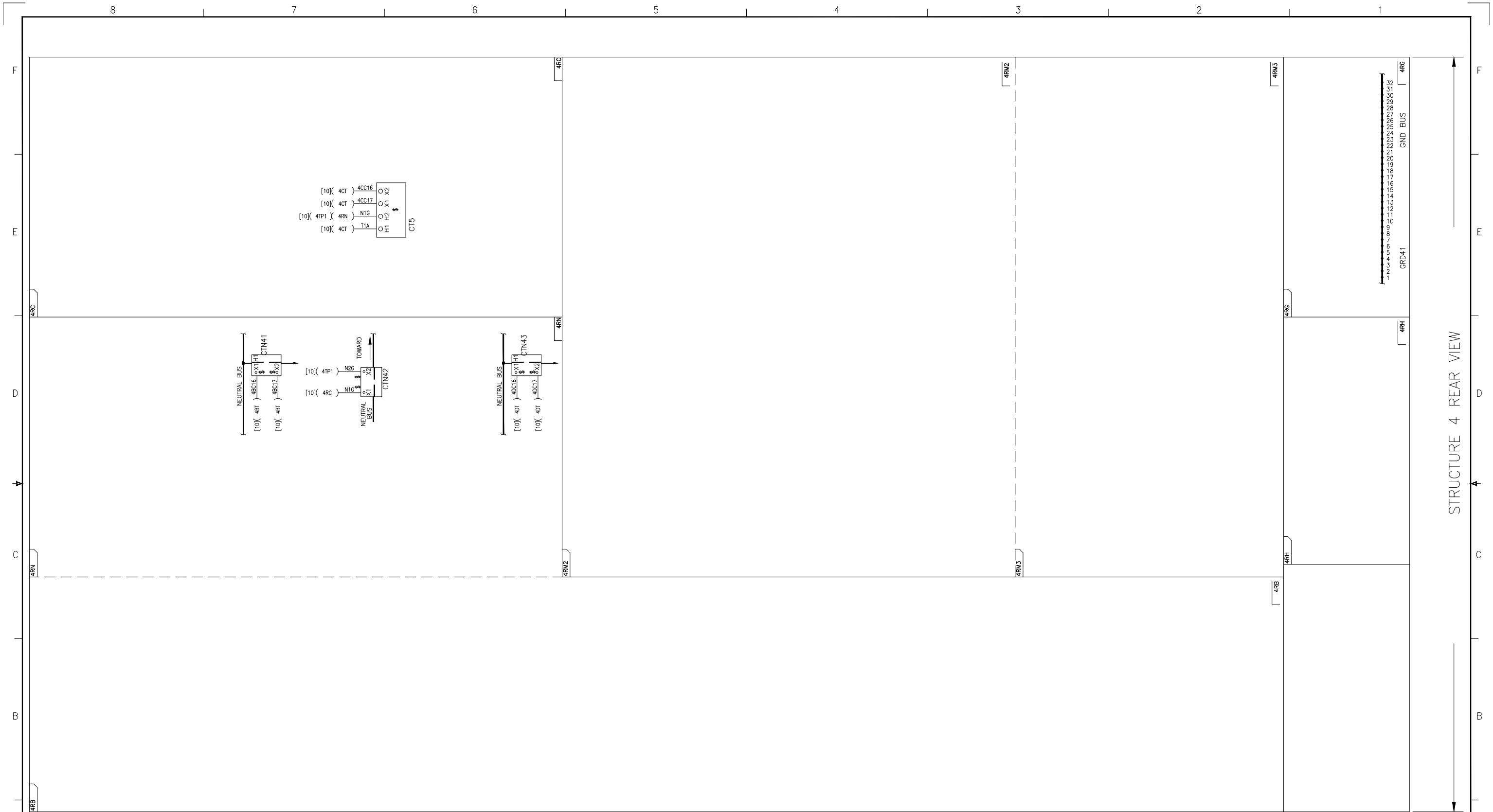
<p>Issued For Construction</p> <p>The information on this document is suitable for use in establishing final installation and construction details.</p>	<p>DFTR POPAT NIMBHORE</p> <p>DATE 08/19/2025</p>	<p>THE INFORMATION ON THIS DOCUMENT WAS CREATED BY EATON CORPORATION. IT WAS DISCLOSED IN CONFIDENCE AND IS ONLY TO BE USED FOR THE PURPOSE IN WHICH IT WAS SUPPLIED.</p>		
	<p>APPD KENNETH HOWITT</p> <p>DATE 08/19/2025</p>	<p>TITLE NDS 5 480v Switchgear Replacement HU 2024-27 480V SWGR</p>		
	<p>PRODUCT CODE OL</p> <p>S.O. LOOGLBH</p>	<p>TYPE MAGNUM DS SWITCHGEAR</p>	<p>WIRING DIAGRAM</p>	
	<p>REVISION 1</p> <p>CAGE CODE 68592</p>	<p>G.O. LOM0036991-002</p>	<p>DWG LOOGLBH-W</p>	<p>SHEET 020</p>



STRUCTURE 4 BREAKER COMPT C FRONT VIEW

STRUCTURE 4 BREAKER COMPT C FRONT VIEW

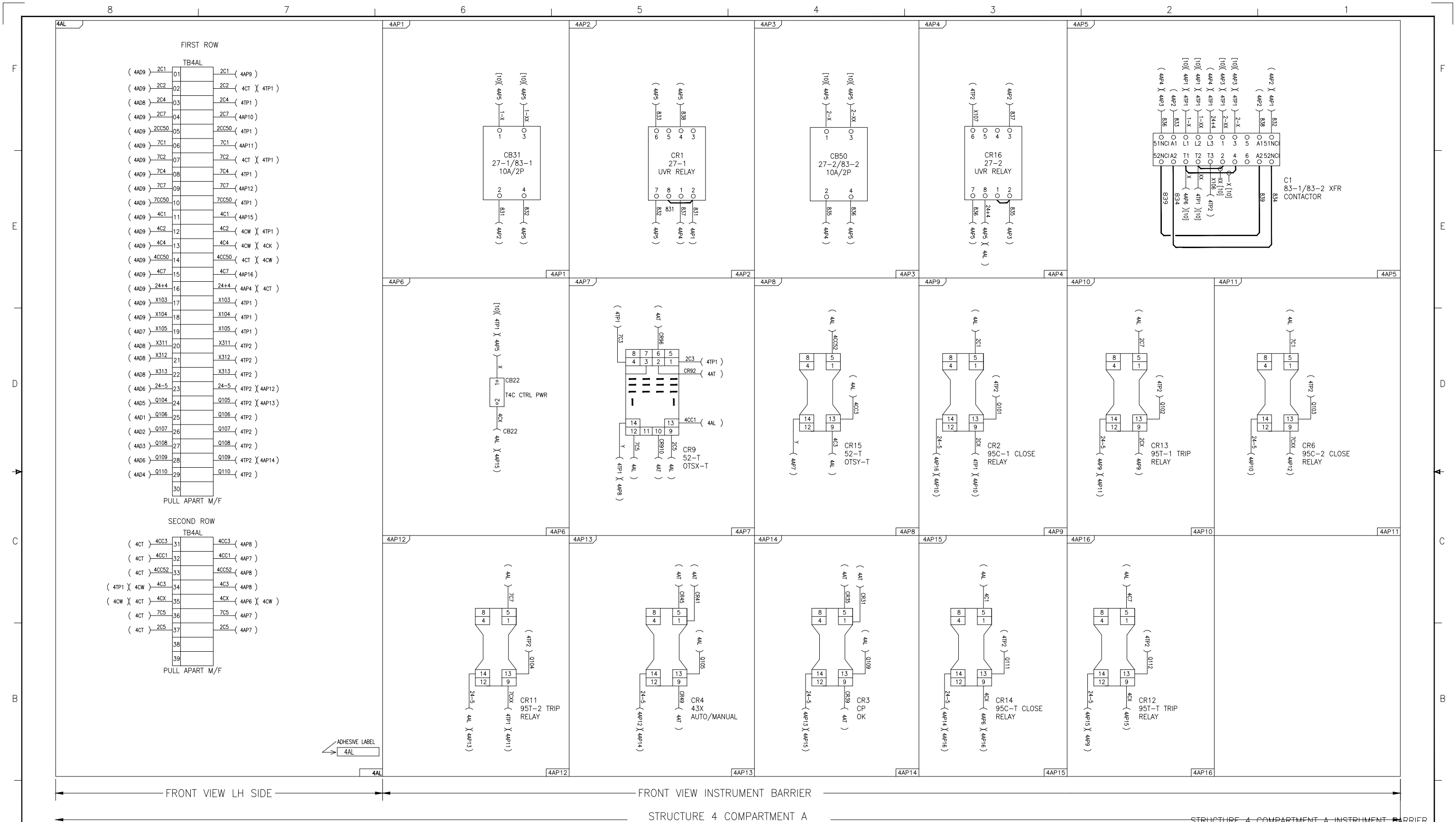
Issued For Construction The information on this document is suitable for use in establishing final installation and construction details.	DFTR POPAT NIMBHORE APPD KENNETH HOWITT PRODUCT CODE OL REVISION 1	DATE 08/19/2025 DATE 08/19/2025 S.O. LOOGLBH CAGE CODE 68592	THE INFORMATION ON THIS DOCUMENT WAS CREATED BY EATON CORPORATION. IT WAS DISCLOSED IN CONFIDENCE AND IS ONLY TO BE USED FOR THE PURPOSE IN WHICH IT WAS SUPPLIED.	EATON TITLE NDS 5 480v Switchgear Replacement HU 2024-27 480V SWGR TYPE MAGNUM DS SWITCHGEAR DWG LOOGLBH-W SHEET 021
	WIRING DIAGRAM		SHEET 021	
	LOOGLBH-W		SHEET 021	
	LOOGLBH-W		SHEET 021	



STRUCTURE 4 REAR VIEW

STRUCTURE 4 REAR VIEW

<p>Issued For Construction</p> <p>The information on this document is suitable for use in establishing final installation and construction details.</p>	<p>DFTR POPAT NIMBHORE</p>	<p>DATE 08/19/2025</p>	<p>THE INFORMATION ON THIS DOCUMENT WAS CREATED BY EATON CORPORATION. IT WAS DISCLOSED IN CONFIDENCE AND IS ONLY TO BE USED FOR THE PURPOSE IN WHICH IT WAS SUPPLIED.</p>		
	<p>APPD KENNETH HOWITT</p>	<p>DATE 08/19/2025</p>	<p>TITLE NDS 5 480v Switchgear Replacement HU 2024-27 480V SWGR</p>		
	<p>CAGE CODE 68592</p>	<p>REVISION 1</p>	<p>S.O. LOOGLBH</p>	<p>TYPE MAGNUM DS SWITCHGEAR</p>	<p>G.O. LOM0036991-002</p>



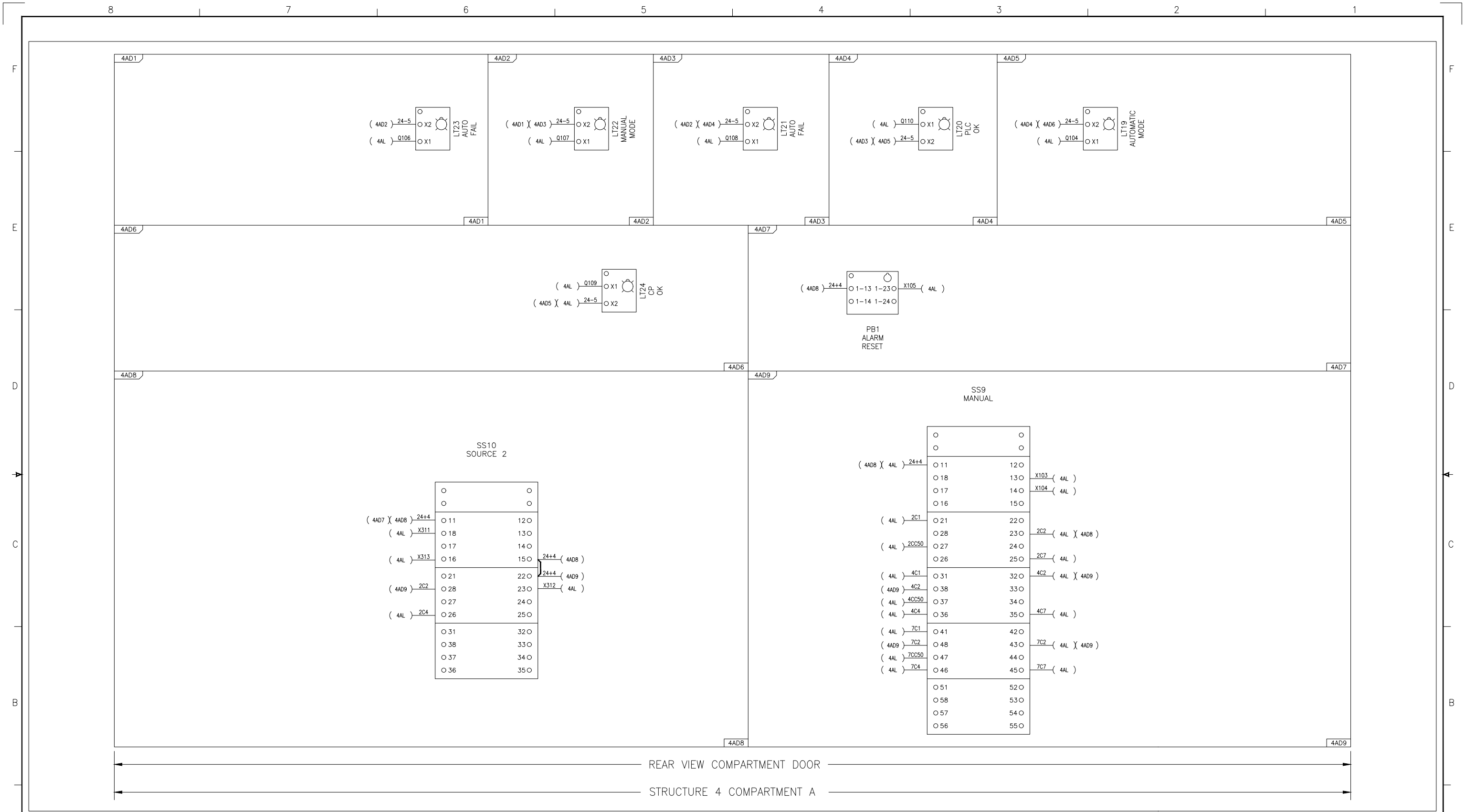
FRONT VIEW LH SIDE

FRONT VIEW INSTRUMENT BARRIER

STRUCTURE 4 COMPARTMENT A

STRUCTURE 4 COMPARTMENT A INSTRUMENT BARRIER

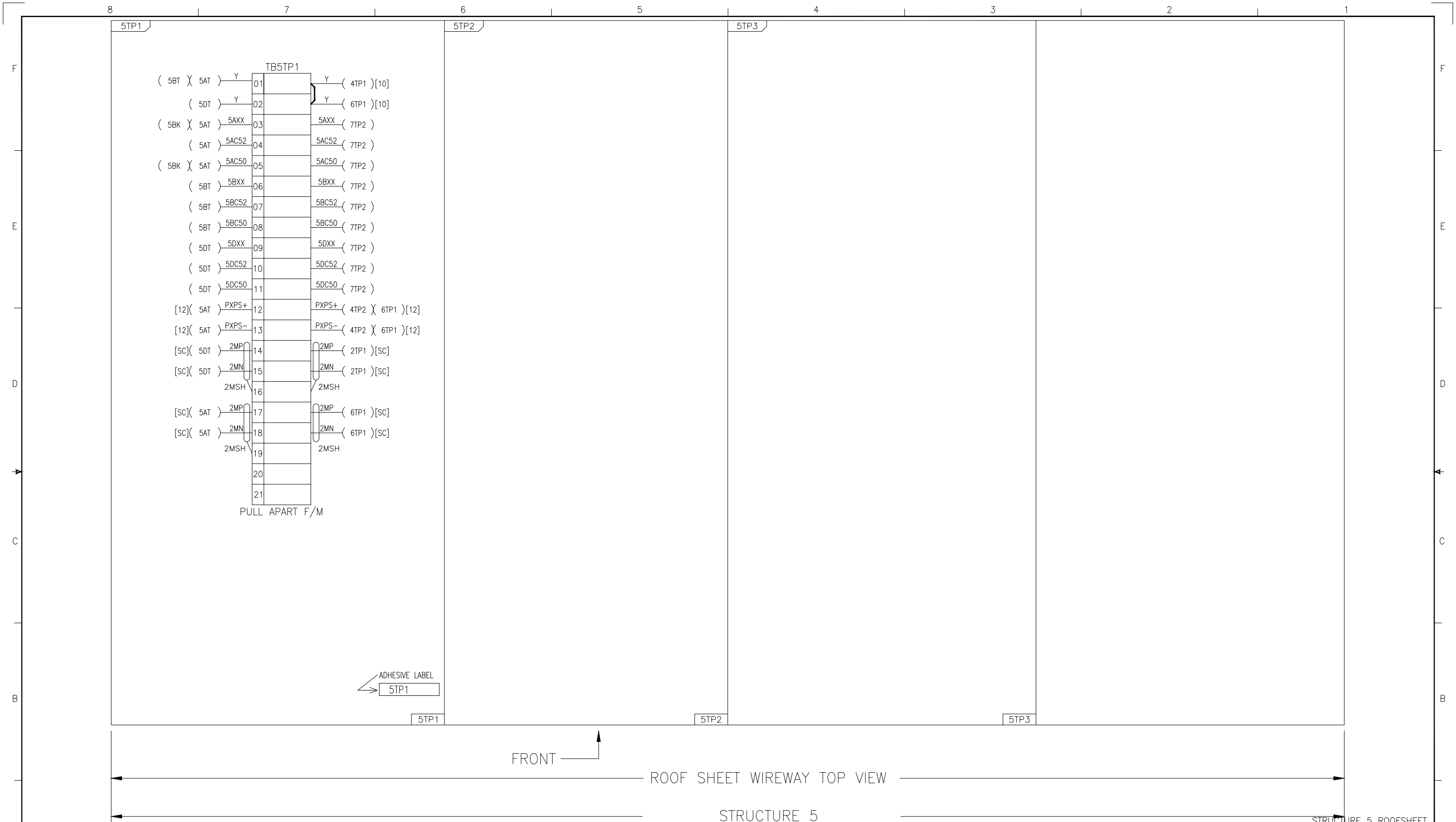
	Issued for Construction	DFTR POPAT NIMBHORE	DATE 08/19/2025	THE INFORMATION ON THIS DOCUMENT WAS CREATED BY EATON CORPORATION. IT WAS DISCLOSED IN CONFIDENCE AND IS ONLY TO BE USED FOR THE PURPOSE IN WHICH IT WAS SUPPLIED.	
	The information on this document is suitable for use in establishing final installation and construction details.	APPD KENNETH HOWITT	DATE 08/19/2025	TITLE NDS 5 480v Switchgear Replacement HU 2024-27 480V SWGR	
		PRODUCT CODE OL	S.O. LOOGLBH	TYPE MAGNUM DS SWITCHGEAR	
	CAGE CODE 68592	REVISION 1		G.O. LOM0036991-002	DWG LOOGLBH-W



REAR VIEW COMPARTMENT DOOR
STRUCTURE 4 COMPARTMENT A

STRUCTURE 4 COMPARTMENT A DOOR

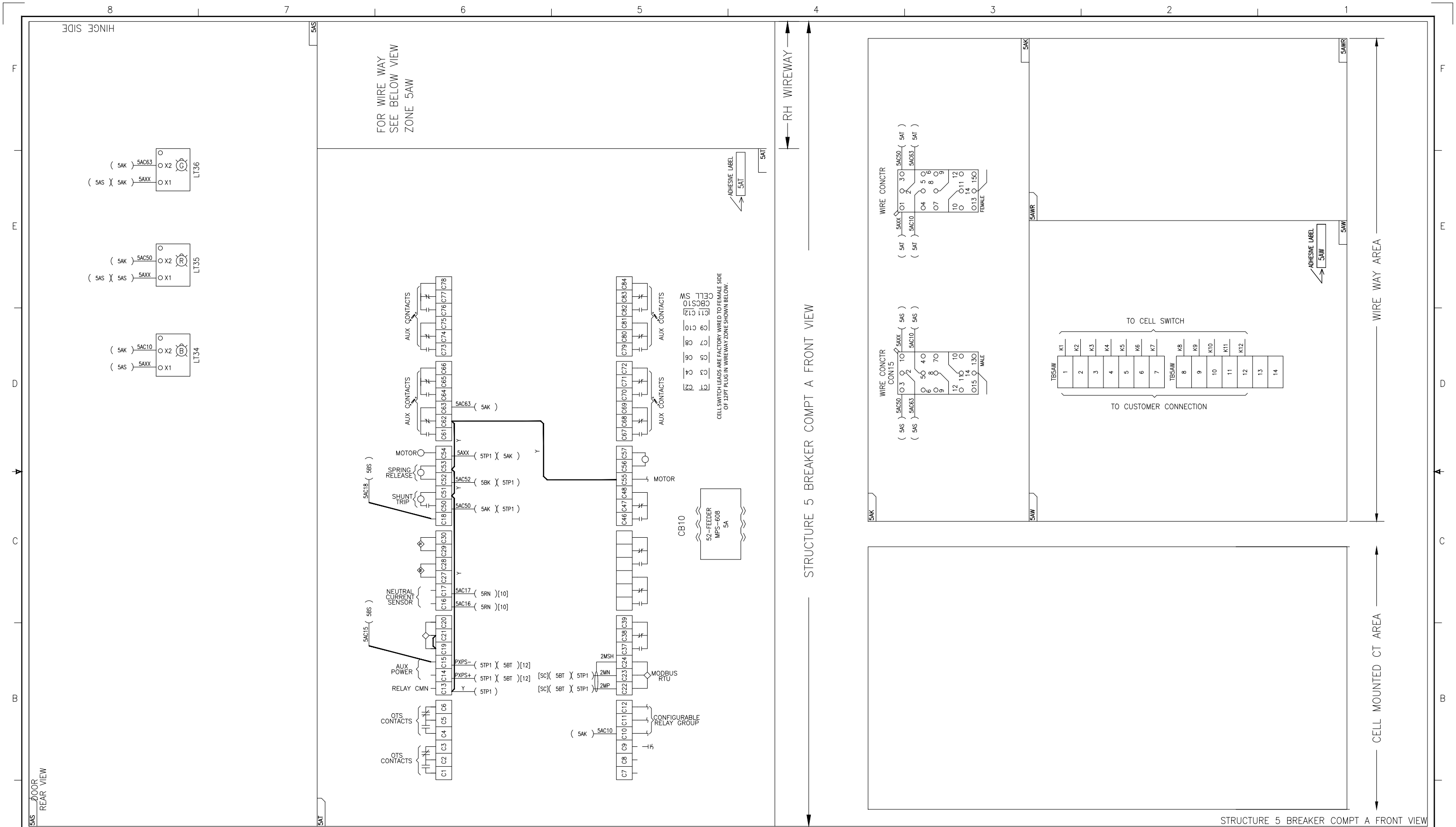
<p>Issued For Construction</p> <p>The information on this document is suitable for use in establishing final installation and construction details.</p>	DFTR POPAT NIMBHORE DATE 08/19/2025	DATE 08/19/2025	THE INFORMATION ON THIS DOCUMENT WAS CREATED BY EATON CORPORATION. IT WAS DISCLOSED IN CONFIDENCE AND IS ONLY TO BE USED FOR THE PURPOSE IN WHICH IT WAS SUPPLIED.			
	APPD KENNETH HOWITT DATE 08/19/2025	DATE 08/19/2025	TITLE NDS 5 480v Switchgear Replacement HU 2024-27 480V SWGR			
	PRODUCT CODE OL	S.O. LOOGLBH	TYPE MAGNUM DS SWITCHGEAR		WIRING DIAGRAM	
	REVISION 1	G.O. LOM0036991-002	DWG LOOGLBH-W	SHEET 025		
CAGE CODE 68592						



FRONT ↑
 ROOF SHEET WIREWAY TOP VIEW
 STRUCTURE 5

STRUCTURE 5 ROOFSHEET

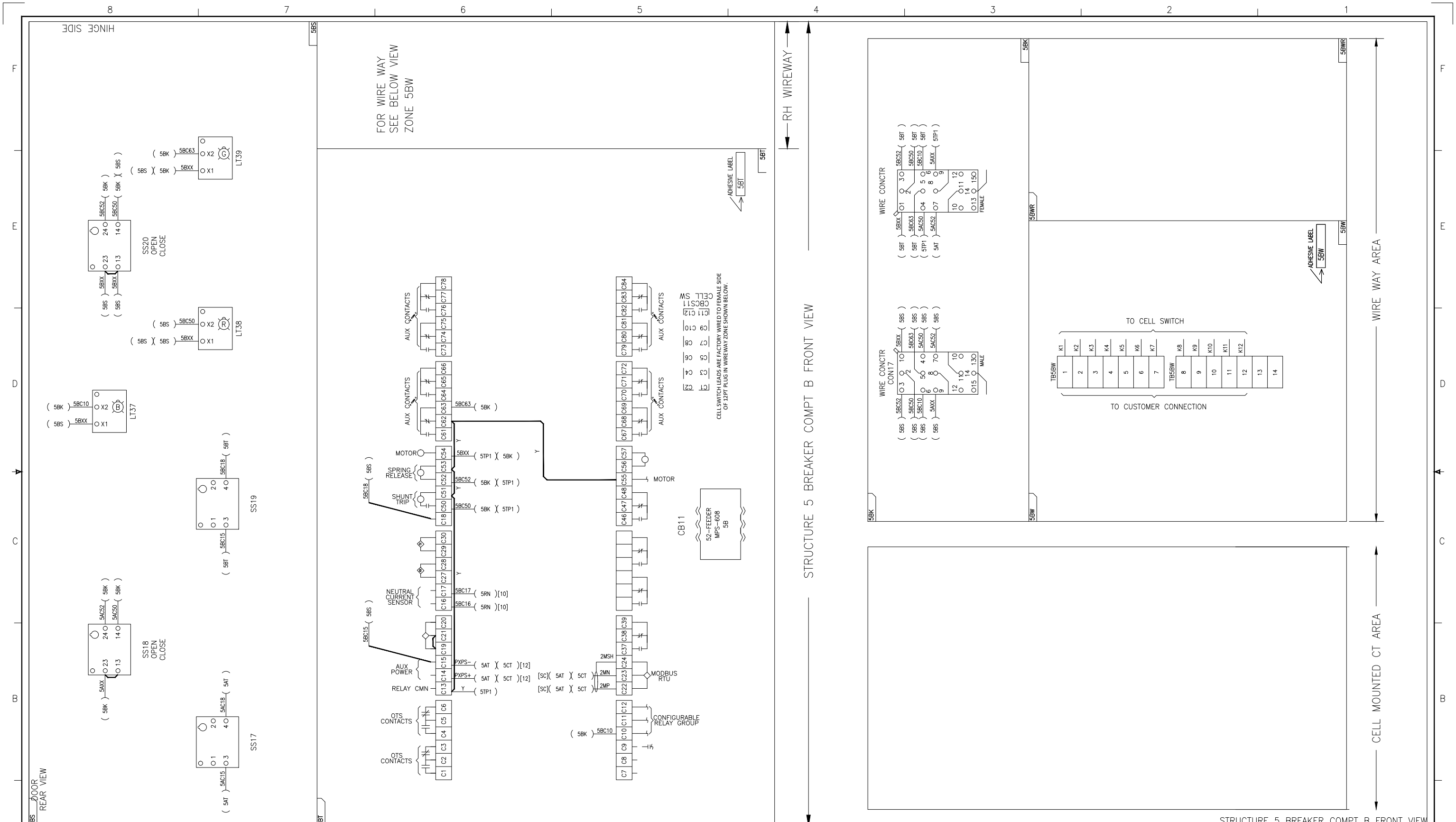
Issued For Construction The information on this document is suitable for use in establishing final installation and construction details.	DFTR	DATE	THE INFORMATION ON THIS DOCUMENT WAS CREATED BY EATON CORPORATION. IT WAS DISCLOSED IN CONFIDENCE AND IS ONLY TO BE USED FOR THE PURPOSE IN WHICH IT WAS SUPPLIED.		EATON
	POPAT NIMBHORE	08/19/2025			
	APPD	DATE	TITLE		
	KENNETH HOWITT	08/19/2025	NDS 5 480v Switchgear Replacement HU 2024-27		480V SWGR
	PRODUCT CODE	S.O.	TYPE		WIRING DIAGRAM
	OL	LOOGLBH	MAGNUM DS SWITCHGEAR		
CAGE CODE	REVISION	G.O.	DWG	SHEET	
68592	1	LOM0036991-002	LOOGLBH-W	026	



STRUCTURE 5 BREAKER COMPT A FRONT VIEW

STRUCTURE 5 BREAKER COMPT A FRONT VIEW

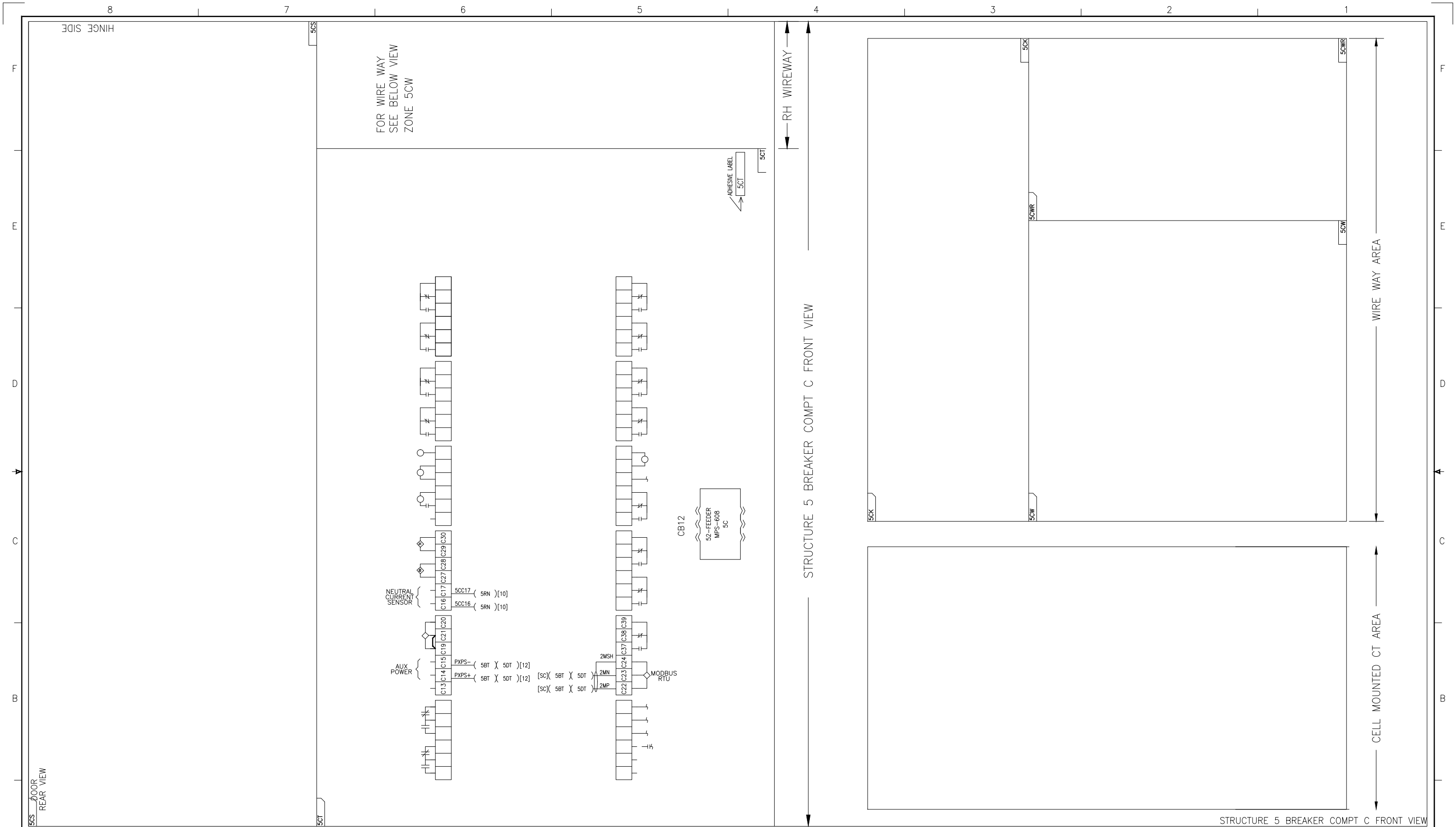
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	APPD KENNETH HOWITT	DATE 08/19/2025	TITLE NDS 5 480v Switchgear Replacement HU 2024-27 480V SWGR	
CAGE CODE 68592	PRODUCT CODE OL	S.O. LOOGLBH	TYPE MAGNUM DS SWITCHGEAR	WIRING DIAGRAM
REVISION 1	REVISION 1	G.O. LOM0036991-002	DWG LOOGLBH-W	SHEET 027



STRUCTURE 5 BREAKER COMPT B FRONT VIEW

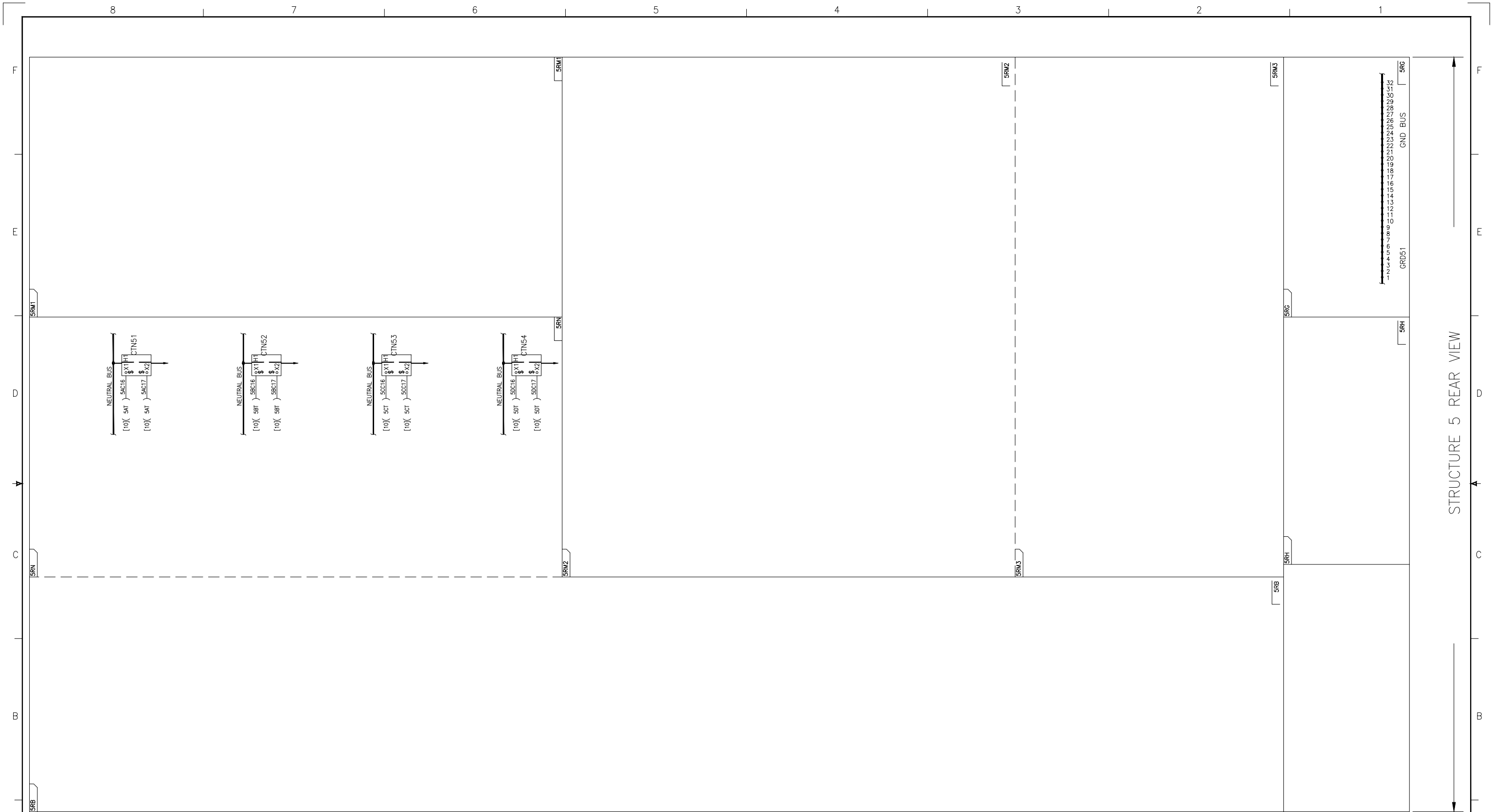
STRUCTURE 5 BREAKER COMPT B FRONT VIEW

Issued For Construction The information on this document is suitable for use in establishing final installation and construction details.	DFTR POPAT NIMBHORE APPD KENNETH HOWITT PRODUCT CODE OL REVISION 1	DATE 08/19/2025 DATE 08/19/2025 S.O. LOOGLBH DWG LOOGLBH-W	THE INFORMATION ON THIS DOCUMENT WAS CREATED BY EATON CORPORATION. IT WAS DISCLOSED IN CONFIDENCE AND IS ONLY TO BE USED FOR THE PURPOSE IN WHICH IT WAS SUPPLIED.
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	TYPE MAGNUM DS SWITCHGEAR		
	CAGE CODE 68592	G.O. LOM0036991-002	



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	PRODUCT CODE OL	S.O. LOOGLBH	TITLE NDS 5 480v Switchgear Replacement HU 2024-27 480V SWGR	
CAGE CODE 68592	REVISION 1	G.O. LOM0036991-002	DWG LOOGLBH-W	SHEET 029

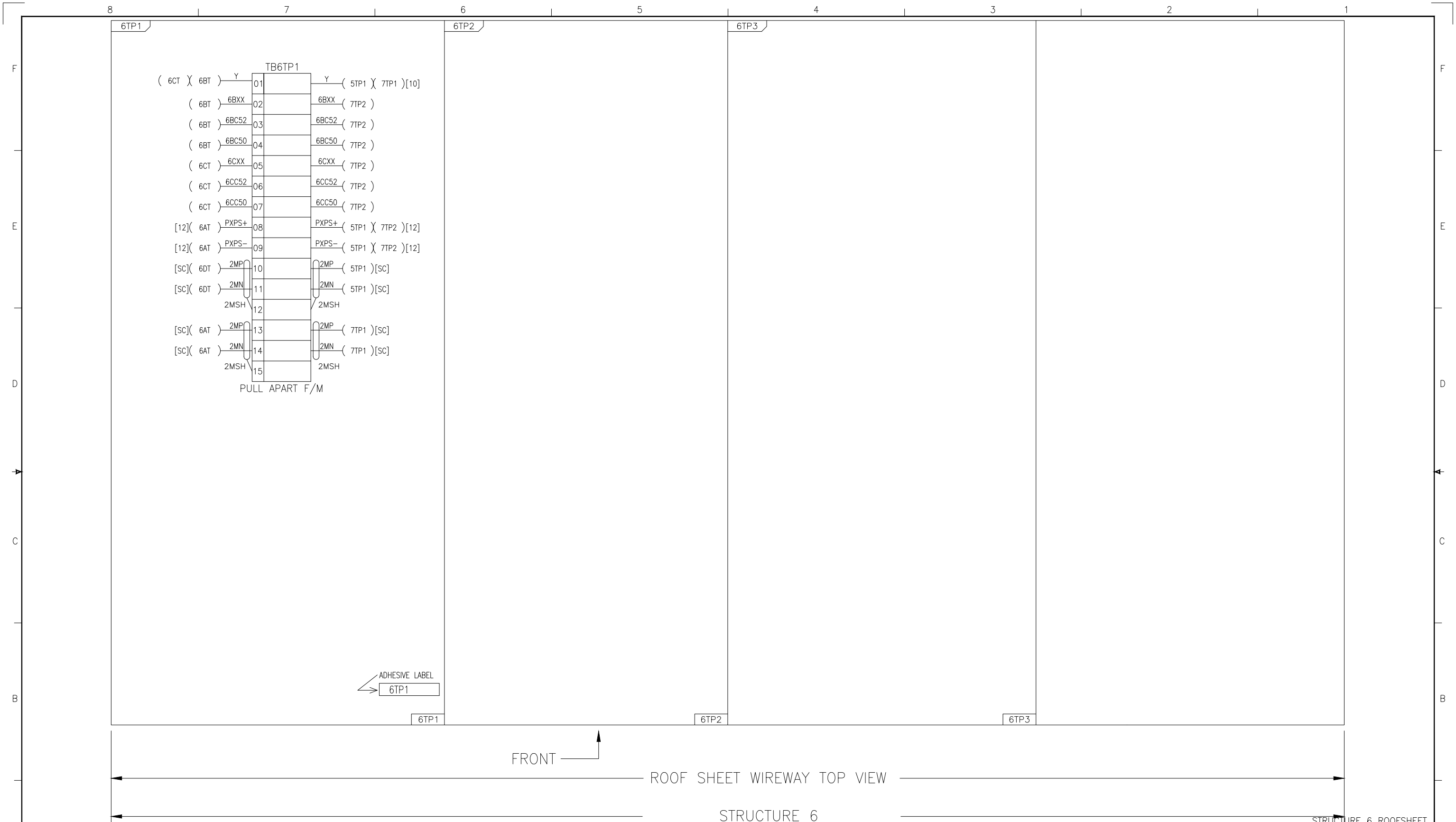


STRUCTURE 5 REAR VIEW

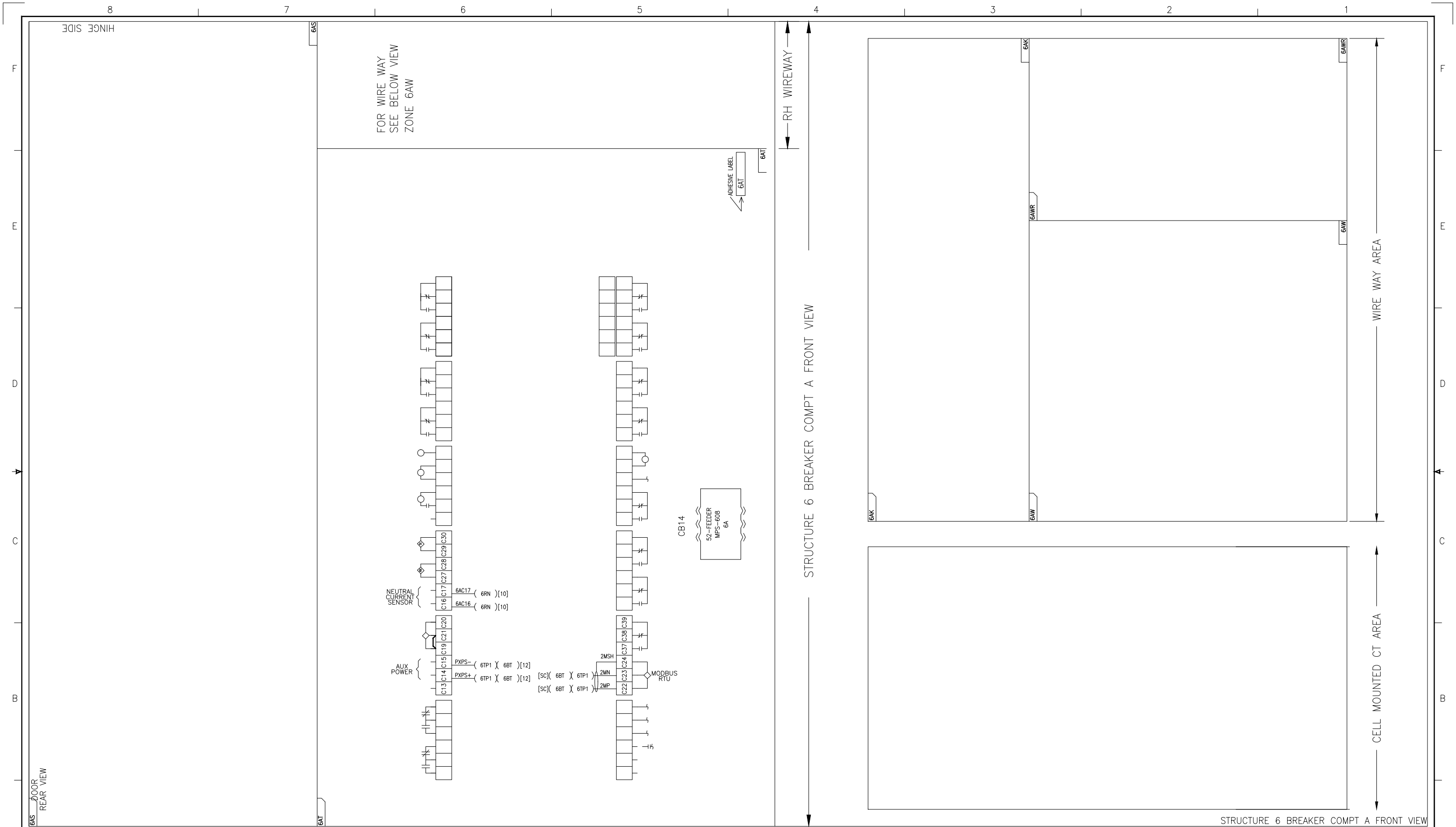
STRUCTURE 5 REAR VIEW

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	POPAT NIMBHORE	08/19/2025			
The information on this document is suitable for use in establishing final installation and construction details.	APPD	DATE	TITLE NDS 5 480v Switchgear Replacement HU 2024-27 480V SWGR		
	KENNETH HOWITT	08/19/2025			
CAGE CODE 68592	PRODUCT CODE	S.O.	TYPE MAGNUM DS SWITCHGEAR		WIRING DIAGRAM
	OL	LOOGLBH			
	REVISION		G.O.	DWG	SHEET
	1		LOM0036991-002	LOOGLBH-W	031

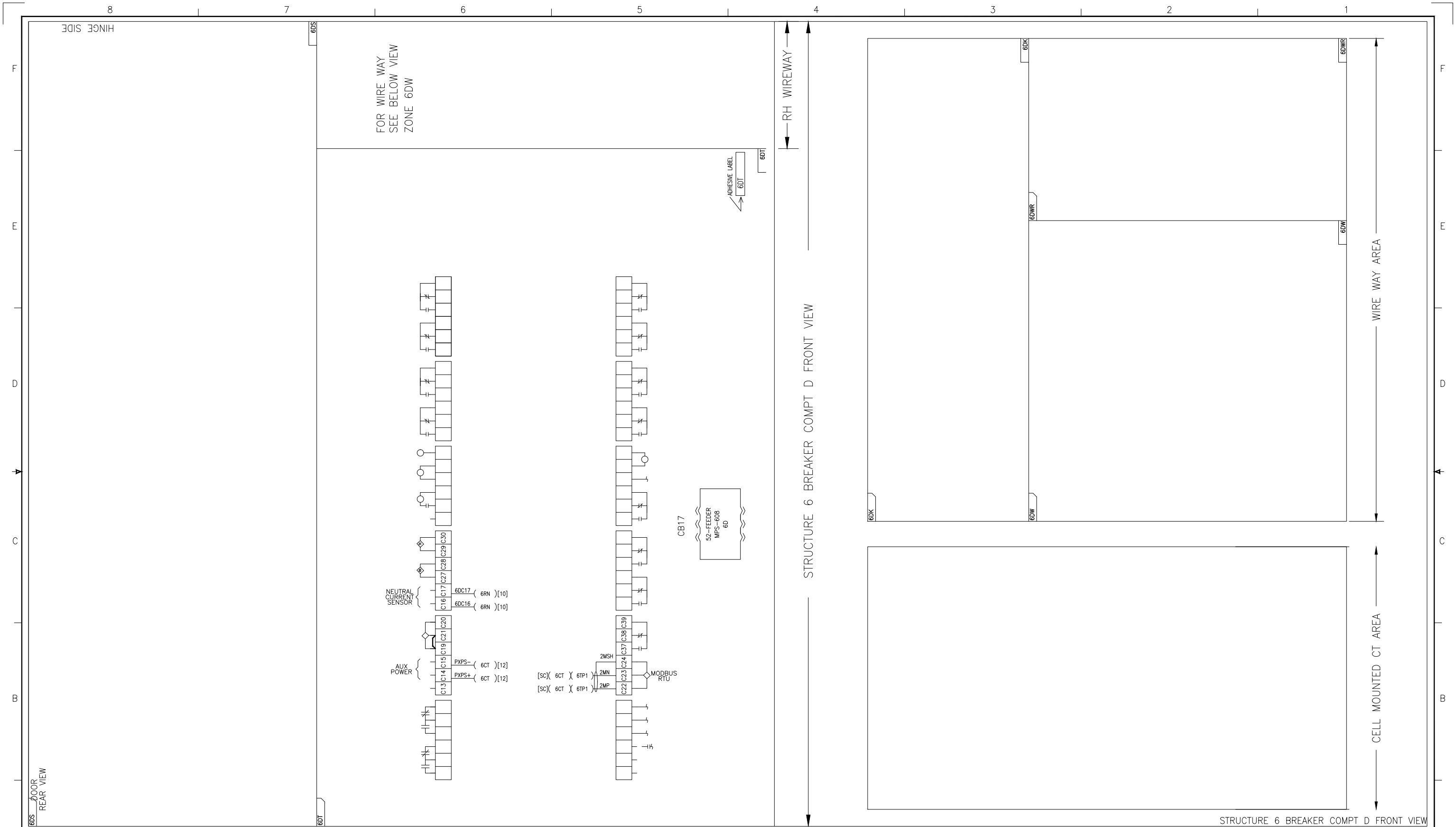


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		APPD KENNETH HOWITT DATE 08/19/2025	TITLE NDS 5 480v Switchgear Replacement HU 2024-27 480V SWGR			
		PRODUCT CODE OL	S.O. LOOGLBH	TYPE MAGNUM DS SWITCHGEAR	WIRING DIAGRAM	
CAGE CODE 68592	REVISION 1	G.O. LOM0036991-002	DWG LOOGLBH-W	SHEET 032		

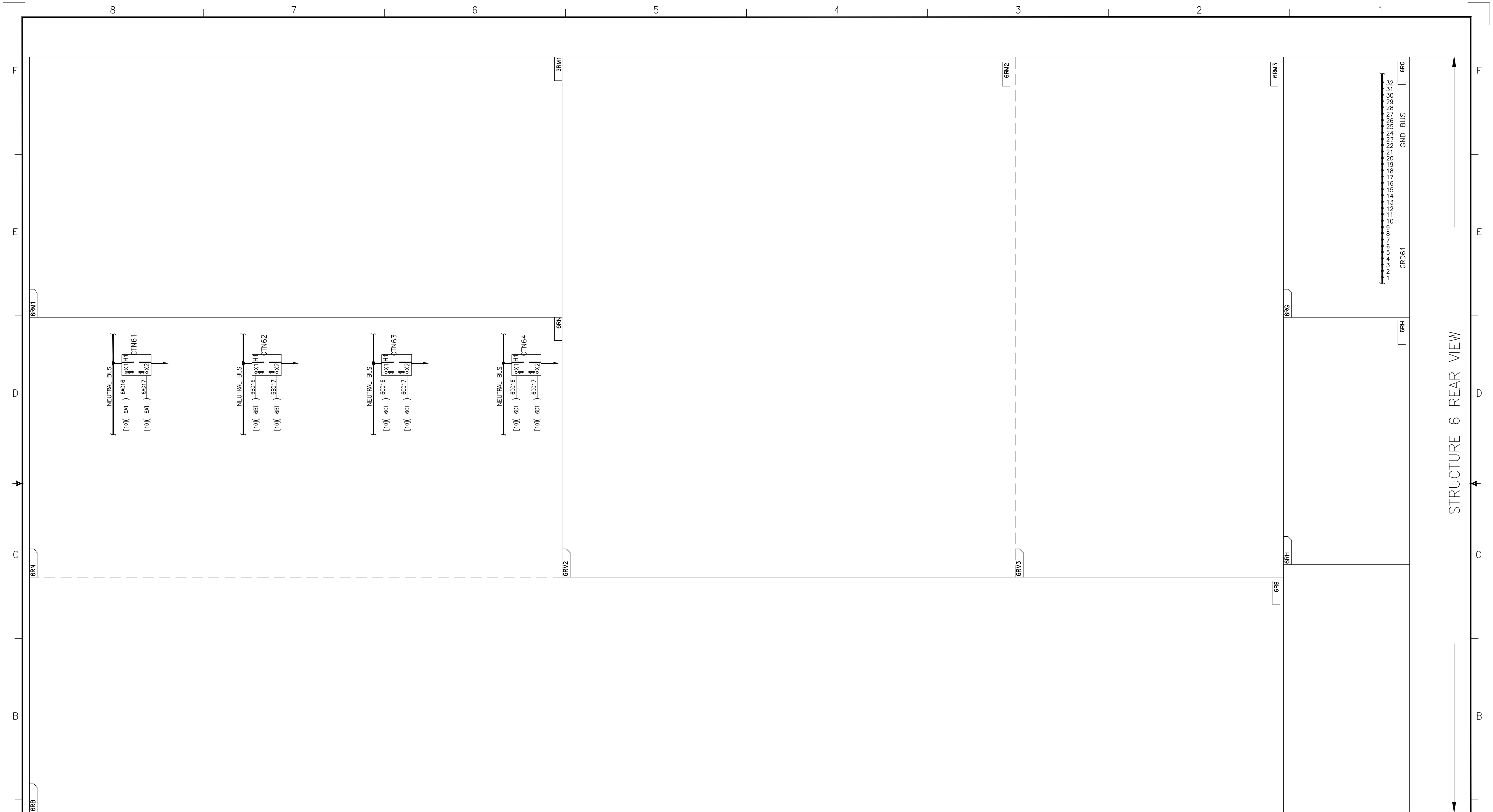


STRUCTURE 6 BREAKER COMPT A FRONT VIEW

<p>Issued For Construction</p> <p>The information on this document is suitable for use in establishing final installation and construction details.</p>	DFTR POPAT NIMBHORE APPD KENNETH HOWITT PRODUCT CODE OL REVISION 1	DATE 08/19/2025 DATE 08/19/2025 S.O. LOOGLBH CAGE CODE 68592	THE INFORMATION ON THIS DOCUMENT WAS CREATED BY EATON CORPORATION. IT WAS DISCLOSED IN CONFIDENCE AND IS ONLY TO BE USED FOR THE PURPOSE IN WHICH IT WAS SUPPLIED.	<p>EATON</p> TITLE NDS 5 480v Switchgear Replacement HU 2024-27 480V SWGR TYPE MAGNUM DS SWITCHGEAR WIRING DIAGRAM SHEET 033	
	TITLE NDS 5 480v Switchgear Replacement HU 2024-27 480V SWGR		TYPE MAGNUM DS SWITCHGEAR	WIRING DIAGRAM	
	CAGE CODE 68592		REVISION 1	G.O. LOM0036991-002	DWG LOOGLBH-W
			SHEET 033		



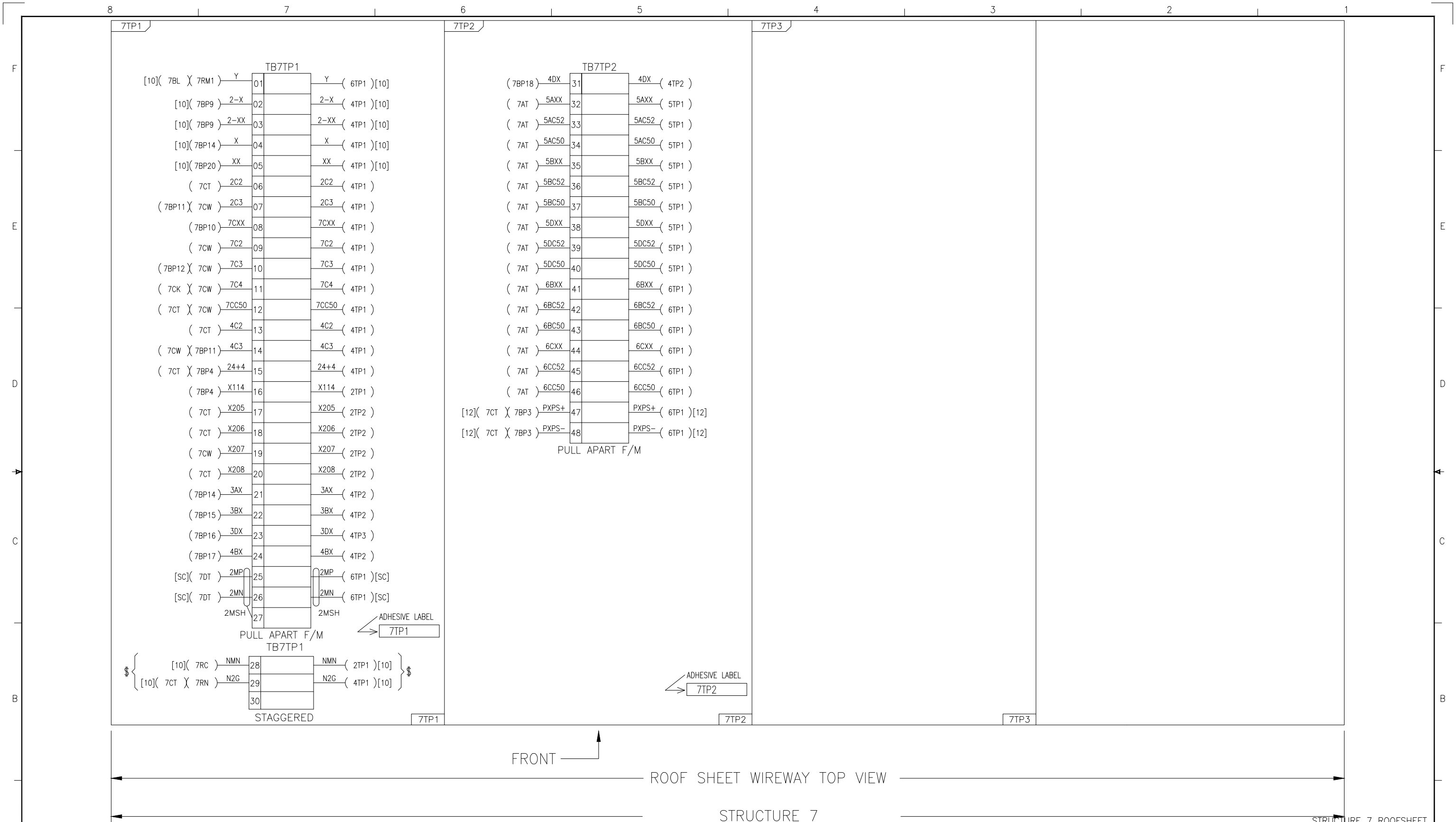
<p>Issued For Construction</p> <p>The information on this document is suitable for use in establishing final installation and construction details.</p>		<p>DFTR POPAT NIMBHORE</p> <p>APPD KENNETH HOWITT</p> <p>PRODUCT CODE OL</p> <p>REVISION 1</p> <p>CAGE CODE 68592</p>	<p>DATE 08/19/2025</p> <p>DATE 08/19/2025</p> <p>S.O. LOOGLBH</p>	<p>THE INFORMATION ON THIS DOCUMENT WAS CREATED BY EATON CORPORATION. IT WAS DISCLOSED IN CONFIDENCE AND IS ONLY TO BE USED FOR THE PURPOSE IN WHICH IT WAS SUPPLIED.</p> <p>TITLE NDS 5 480v Switchgear Replacement HU 2024-27 480V SWGR</p> <p>TYPE MAGNUM DS SWITCHGEAR</p> <p>G.O. LOM0036991-002</p>	<p>EATON</p> <p>WIRING DIAGRAM</p> <p>DWG LOOGLBH-W</p> <p>SHEET 036</p>
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STRUCTURE 6 REAR VIEW

STRUCTURE 6 REAR VIEW

<p>Issued For Construction</p> <p>The information on this document is suitable for use in establishing final installation and construction details.</p>	<p>DFTR POPAT NIMBHORE</p> <p>DATE 08/19/2025</p>	<p>THE INFORMATION ON THIS DOCUMENT WAS CREATED BY EATON CORPORATION. IT WAS DISCLOSED IN CONFIDENCE AND IS ONLY TO BE USED FOR THE PURPOSE IN WHICH IT WAS SUPPLIED.</p>		<p>EATON</p>	
	<p>APPD KENNETH HOWITT</p> <p>DATE 08/19/2025</p>	<p>TITLE NDS 5 480v Switchgear Replacement HU 2024-27</p> <p>480V SWGR</p>			
	<p>PRODUCT CODE OL</p> <p>REVISION 1</p>	<p>S.O. LOOGLBH</p>	<p>TYPE MAGNUM DS SWITCHGEAR</p>		<p>WIRING DIAGRAM</p>
	<p>CAGE CODE 68592</p>	<p>G.O. LOM0036991-002</p>	<p>DWG LOOGLBH-W</p>	<p>SHEET 037</p>	

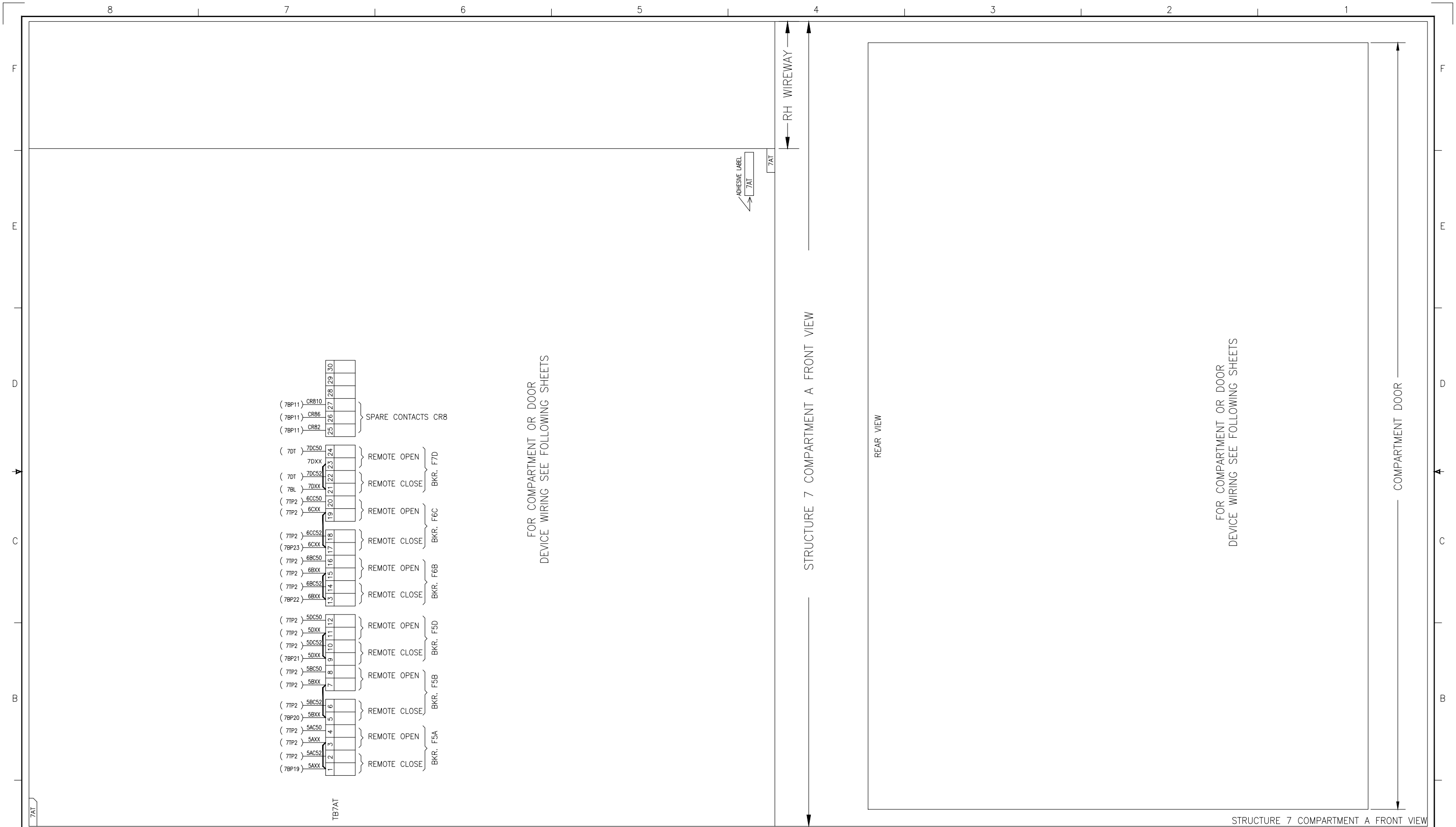


ROOF SHEET WIREWAY TOP VIEW

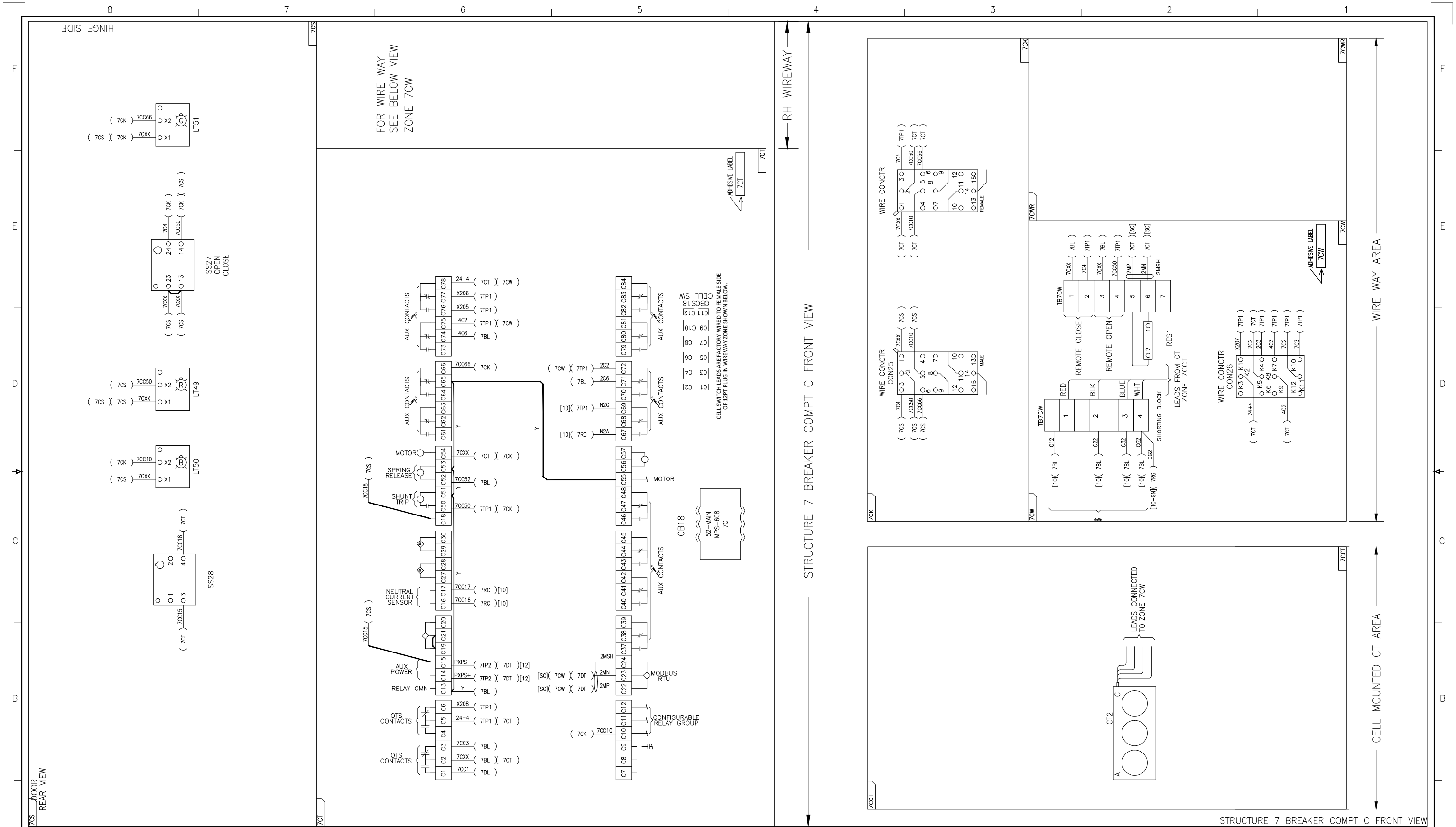
STRUCTURE 7

STRUCTURE 7 ROOFSHEET

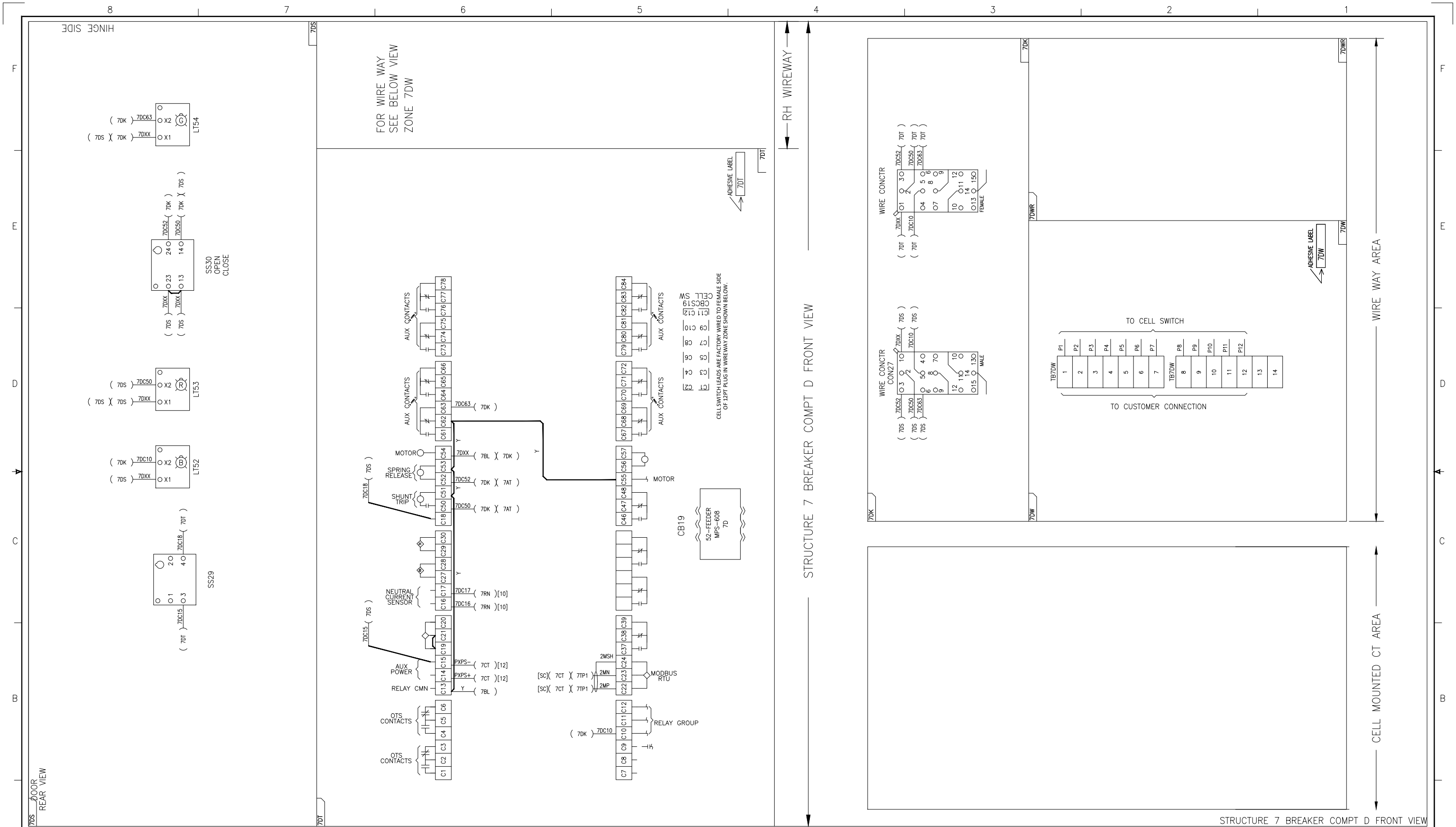
Issued For Construction <small>The information on this document is suitable for use in establishing final installation and construction details.</small>	DFTR POPAT NIMBHORE APPD KENNETH HOWITT PRODUCT CODE OL REVISION 1	DATE 08/19/2025 DATE 08/19/2025 S.O. LOOGLBH G.O. LOM0036991-002	THE INFORMATION ON THIS DOCUMENT WAS CREATED BY EATON CORPORATION. IT WAS DISCLOSED IN CONFIDENCE AND IS ONLY TO BE USED FOR THE PURPOSE IN WHICH IT WAS SUPPLIED.	EATON TITLE NDS 5 480v Switchgear Replacement HU 2024-27 480V SWGR TYPE MAGNUM DS SWITCHGEAR DWG LOOGLBH-W	WIRING DIAGRAM SHEET 038
	CAGE CODE 68592	G.O. LOM0036991-002	SHEET 038		
	COEFDL_R7				



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		<p>APPD KENNETH HOWITT</p>	<p>DATE 08/19/2025</p>	<p>TITLE NDS 5 480v Switchgear Replacement HU 2024-27 480V SWGR</p>		
<p>CAGE CODE 68592</p>		<p>REVISION 1</p>	<p>PRODUCT CODE OL</p>	<p>S.O. LOOGLBH</p>	<p>TYPE MAGNUM DS SWITCHGEAR</p>	<p>WIRING DIAGRAM</p>
				<p>G.O. LOM0036991-002</p>	<p>DWG LOOGLBH-W</p>	<p>SHEET 039</p>



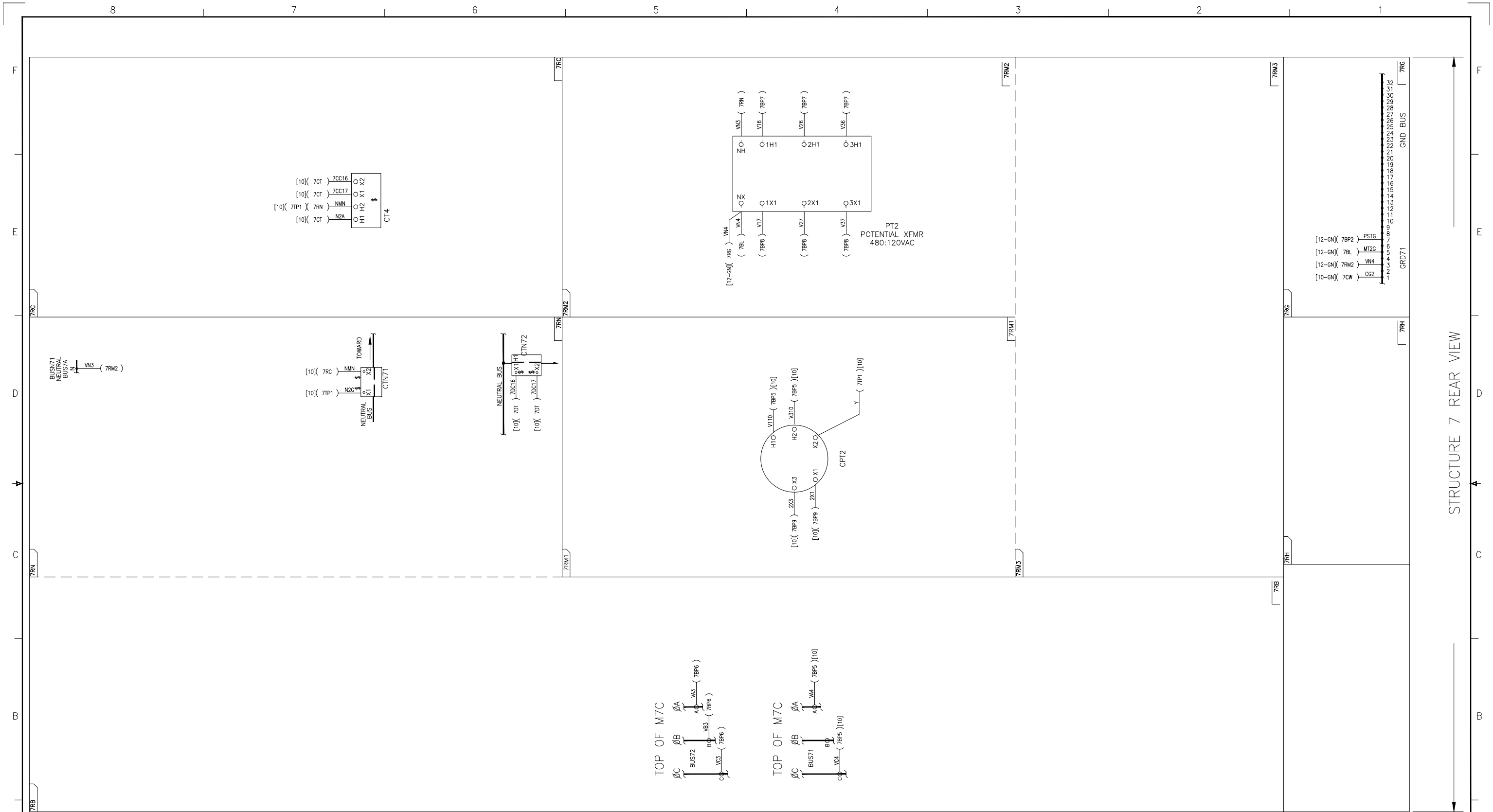
<p>Issued For Construction</p> <p>The information on this document is suitable for use in establishing final installation and construction details.</p>		<p>DFTR POPAT NIMBHORE</p> <p>APPD KENNETH HOWITT</p> <p>PRODUCT CODE OL</p> <p>REVISION 1</p> <p>CAGE CODE 68592</p>	<p>DATE 08/19/2025</p> <p>DATE 08/19/2025</p> <p>S.O. LOOGLBH</p> <p>DWG 68592</p>	<p>THE INFORMATION ON THIS DOCUMENT WAS CREATED BY EATON CORPORATION. IT WAS DISCLOSED IN CONFIDENCE AND IS ONLY TO BE USED FOR THE PURPOSE IN WHICH IT WAS SUPPLIED.</p> <p>TITLE NDS 5 480v Switchgear Replacement HU 2024-27 480V SWGR</p> <p>TYPE MAGNUM DS SWITCHGEAR</p> <p>G.O. LOM0036991-002</p>	<p>EATON</p> <p>WIRING DIAGRAM</p> <p>SHEET 040</p>
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STRUCTURE 7 BREAKER COMPT D FRONT VIEW

STRUCTURE 7 BREAKER COMPT D FRONT VIEW

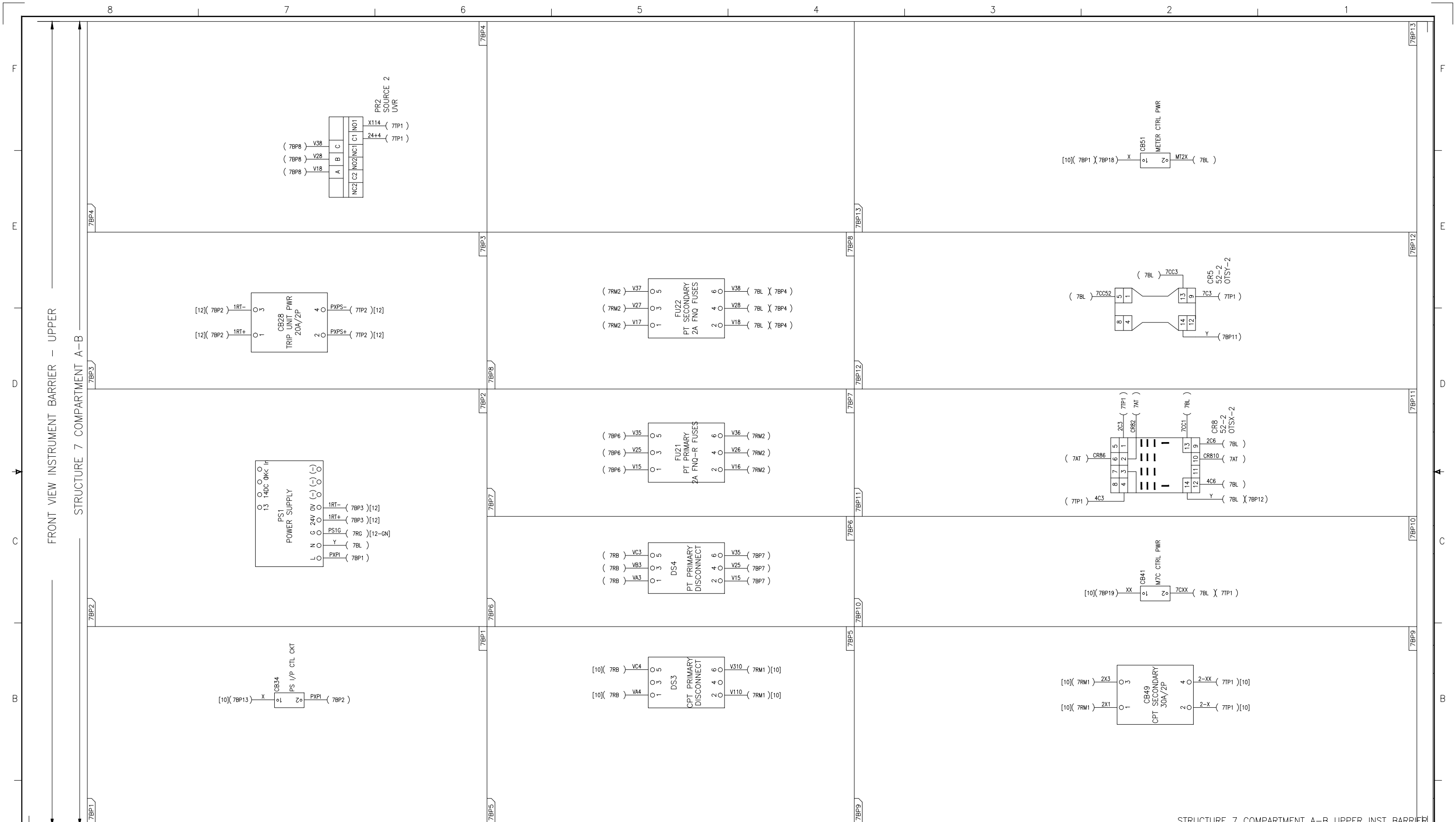
Issued For Construction The information on this document is suitable for use in establishing final installation and construction details.	DFTR POPAT NIMBHORE APPD KENNETH HOWITT PRODUCT CODE OL REVISION 1	DATE 08/19/2025 DATE 08/19/2025 S.O. LOOGLBH DWG LOOGLBH-W	THE INFORMATION ON THIS DOCUMENT WAS CREATED BY EATON CORPORATION. IT WAS DISCLOSED IN CONFIDENCE AND IS ONLY TO BE USED FOR THE PURPOSE IN WHICH IT WAS SUPPLIED.
	CAGE CODE 68592	TITLE NDS 5 480v Switchgear Replacement HU 2024-27 480V SWGR	TYPE MAGNUM DS SWITCHGEAR G.O. LOM0036991-002
	SHEET 041	WIRING DIAGRAM	SHEET 041
	COEFIDL_R7		



STRUCTURE 7 REAR VIEW

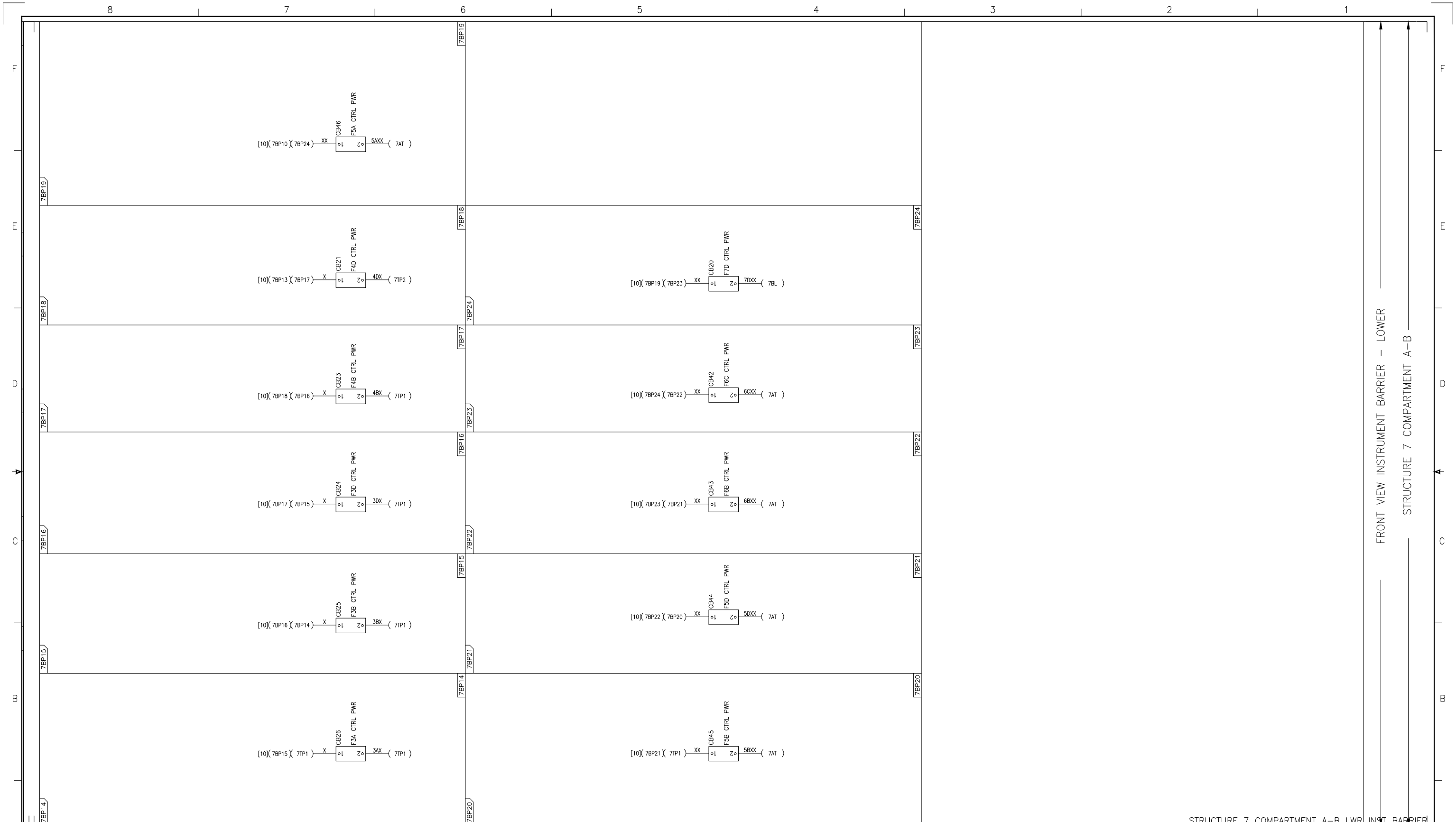
STRUCTURE 7 REAR VIEW

<p>Issued For Construction</p> <p>The information on this document is suitable for use in establishing final installation and construction details.</p>	<p>DFTR POPAT NIMBHORE</p>	<p>DATE 08/19/2025</p>	<p>THE INFORMATION ON THIS DOCUMENT WAS CREATED BY EATON CORPORATION. IT WAS DISCLOSED IN CONFIDENCE AND IS ONLY TO BE USED FOR THE PURPOSE IN WHICH IT WAS SUPPLIED.</p>		
	<p>APPD KENNETH HOWITT</p>	<p>DATE 08/19/2025</p>	<p>TITLE NDS 5 480v Switchgear Replacement HU 2024-27 480V SWGR</p>		
	<p>PRODUCT CODE OL</p>	<p>S.O. LOOGLBH</p>	<p>TYPE MAGNUM DS SWITCHGEAR</p>		<p>WIRING DIAGRAM</p>
	<p>CAGE CODE 68592</p>	<p>REVISION 1</p>	<p>G.O. LOM0036991-002</p>	<p>DWG LOOGLBH-W</p>	<p>SHEET 042</p>



STRUCTURE 7 COMPARTMENT A-B UPPER INST BARRIER

<p>Issued For Construction</p> <p>The information on this document is suitable for use in establishing final installation and construction details.</p> <p>CAGE CODE 68592</p>	DFTR POPAT NIMBHORE APPD KENNETH HOWITT PRODUCT CODE OL REVISION 1	DATE 08/19/2025 DATE 08/19/2025 S.O. LOOGLBH G.O. LOM0036991-002	THE INFORMATION ON THIS DOCUMENT WAS CREATED BY EATON CORPORATION. IT WAS DISCLOSED IN CONFIDENCE AND IS ONLY TO BE USED FOR THE PURPOSE IN WHICH IT WAS SUPPLIED.		TITLE NDS 5 480v Switchgear Replacement HU 2024-27 480V SWGR TYPE MAGNUM DS SWITCHGEAR DWG LOOGLBH-W SHEET 043	
				WIRING DIAGRAM		
				SHEET 043		
				COEFIDL_R7		

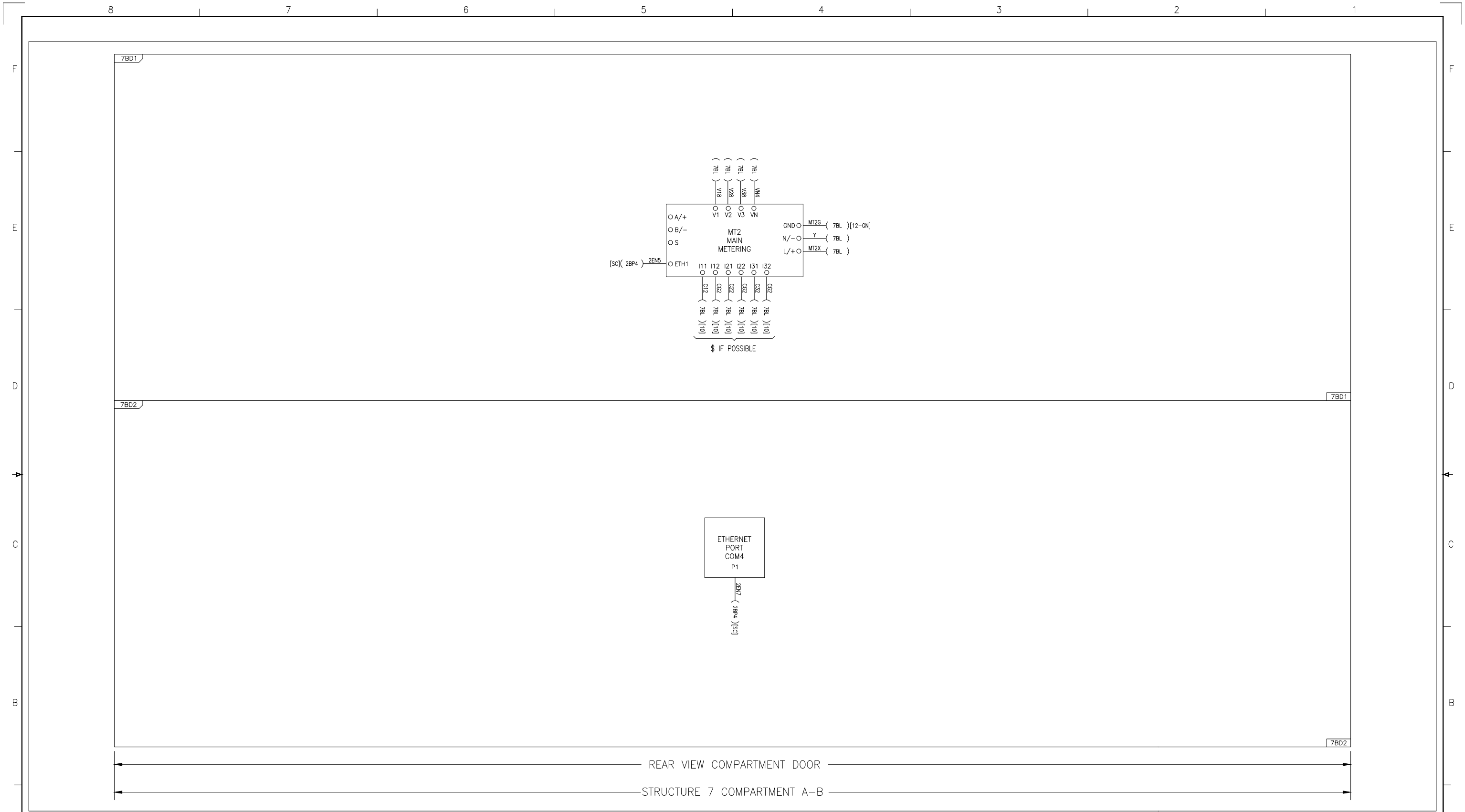


FRONT VIEW INSTRUMENT BARRIER - LOWER
STRUCTURE 7 COMPARTMENT A-B

STRUCTURE 7 COMPARTMENT A-B LWR INST BARRIER

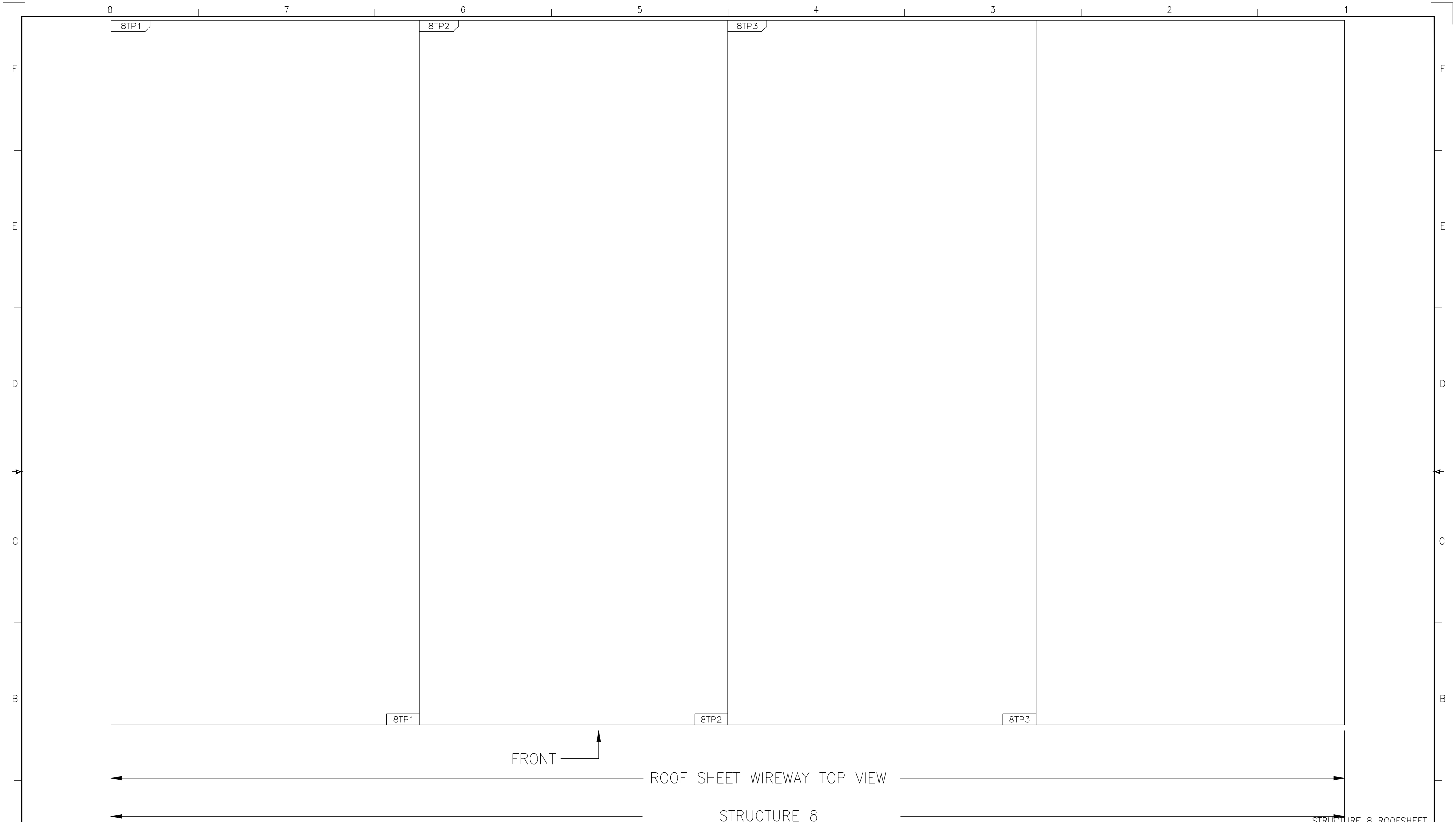
A	F	E	D	C	B	A
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	APPD KENNETH HOWITT	DATE 08/19/2025	TITLE NDS 5 480v Switchgear Replacement HU 2024-27 480V SWGR			
The information on this document is suitable for use in establishing final installation and construction details.	PRODUCT CODE OL	S.O. LOOGLBH	TYPE MAGNUM DS SWITCHGEAR		WIRING DIAGRAM	
	CAGE CODE 68592	REVISION 1	G.O. LOM0036991-002	DWG LOOGLBH-W	SHEET 044	



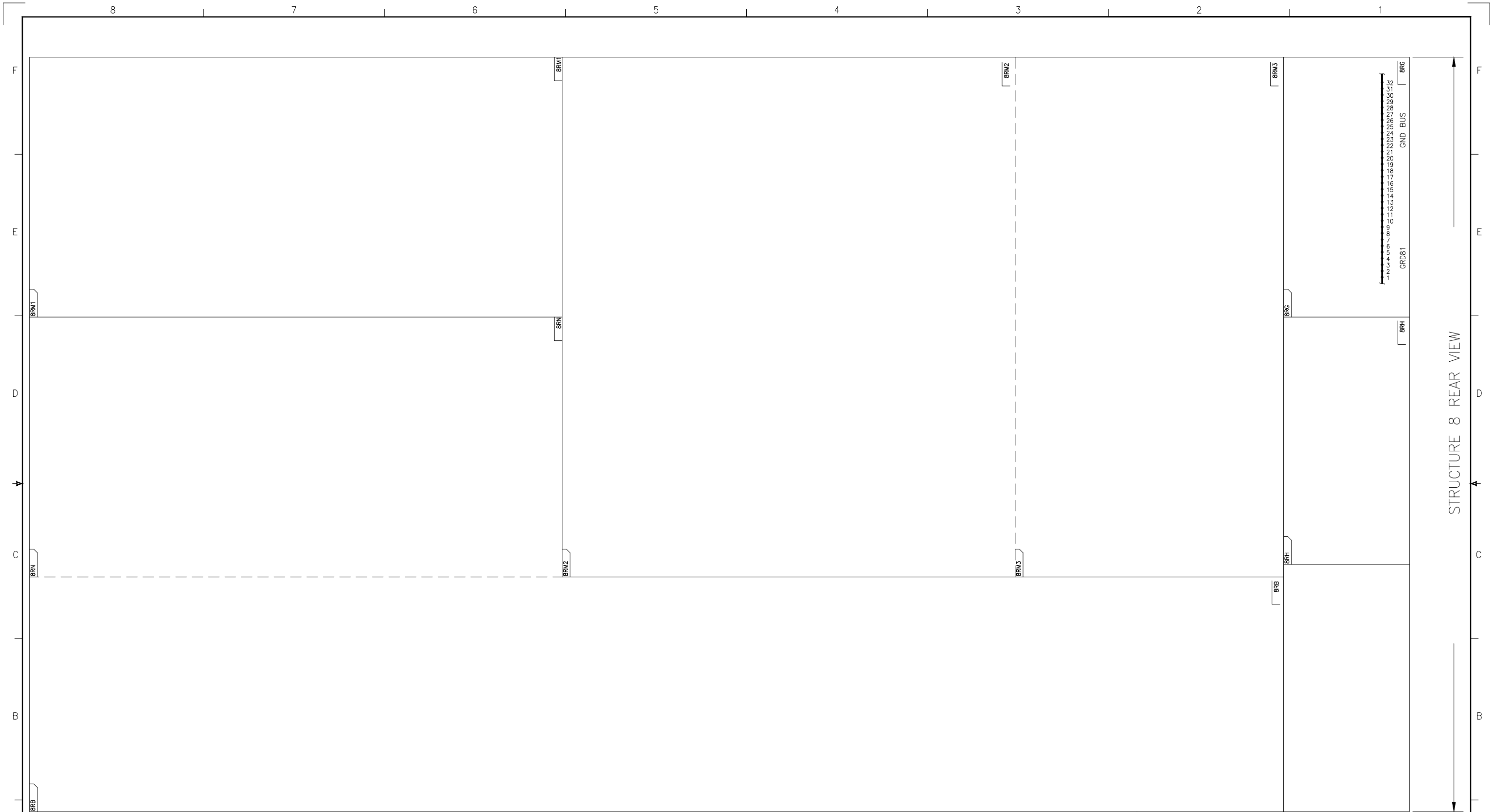
STRUCTURE 7 COMPARTMENT A DOOR

. . . .	Issued For Construction	DFTR POPAT NIMBHORE	DATE 08/19/2025	THE INFORMATION ON THIS DOCUMENT WAS CREATED BY EATON CORPORATION. IT WAS DISCLOSED IN CONFIDENCE AND IS ONLY TO BE USED FOR THE PURPOSE IN WHICH IT WAS SUPPLIED.		EATON	
	The information on this document is suitable for use in establishing final installation and construction details.	APPD KENNETH HOWITT	DATE 08/19/2025	TITLE NDS 5 480v Switchgear Replacement HU 2024-27 480V SWGR			
	CAGE CODE 68592	PRODUCT CODE OL	S.O. LOOGLBH	TYPE MAGNUM DS SWITCHGEAR			WIRING DIAGRAM
	REVISION 1	G.O. LOM0036991-002	DWG LOOGLBH-W	SHEET 046			



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	APPD KENNETH HOWITT	DATE 08/19/2025	TITLE NDS 5 480v Switchgear Replacement HU 2024-27 480V SWGR		
CAGE CODE 68592	REVISION 1	PRODUCT CODE OL	S.O. LOOGLBH	TYPE MAGNUM DS SWITCHGEAR	WIRING DIAGRAM
		G.O. LOM0036991-002	DWG LOOGLBH-W	SHEET 047	



STRUCTURE 8 REAR VIEW

STRUCTURE 8 REAR VIEW

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	APPD KENNETH HOWITT	DATE 08/19/2025	TITLE NDS 5 480v Switchgear Replacement HU 2024-27 480V SWGR			
	PRODUCT CODE OL	S.O. LOOGLBH	TYPE MAGNUM DS SWITCHGEAR		WIRING DIAGRAM	
	CAGE CODE 68592	REVISION 1	G.O. LOM0036991-002	DWG LOOGLBH-W	SHEET 048	