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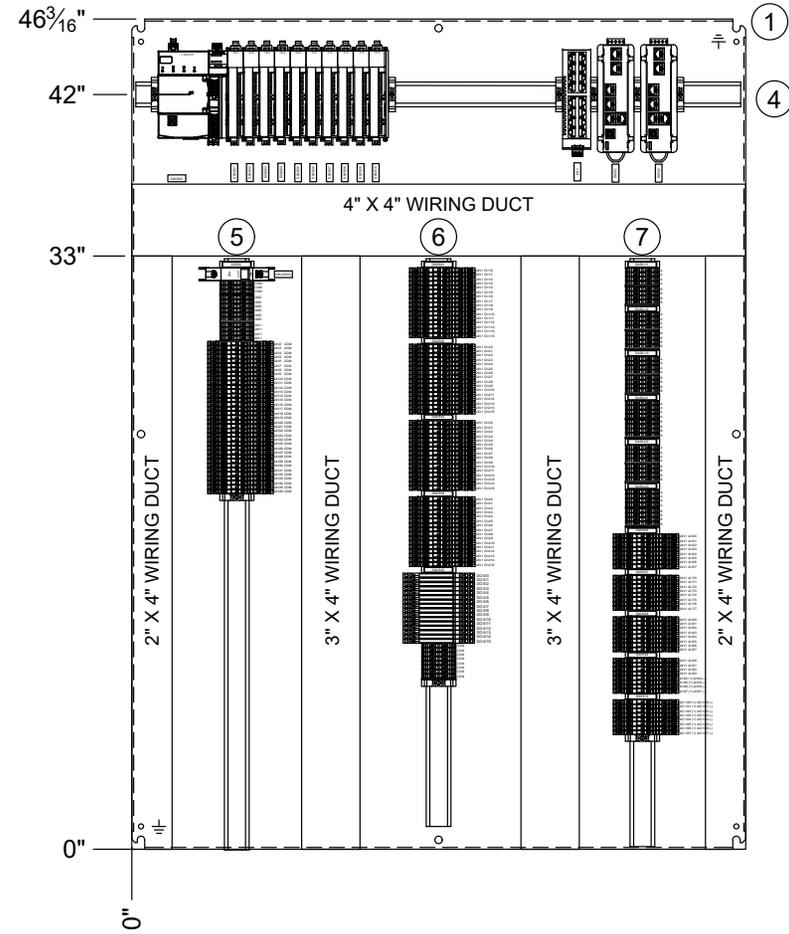
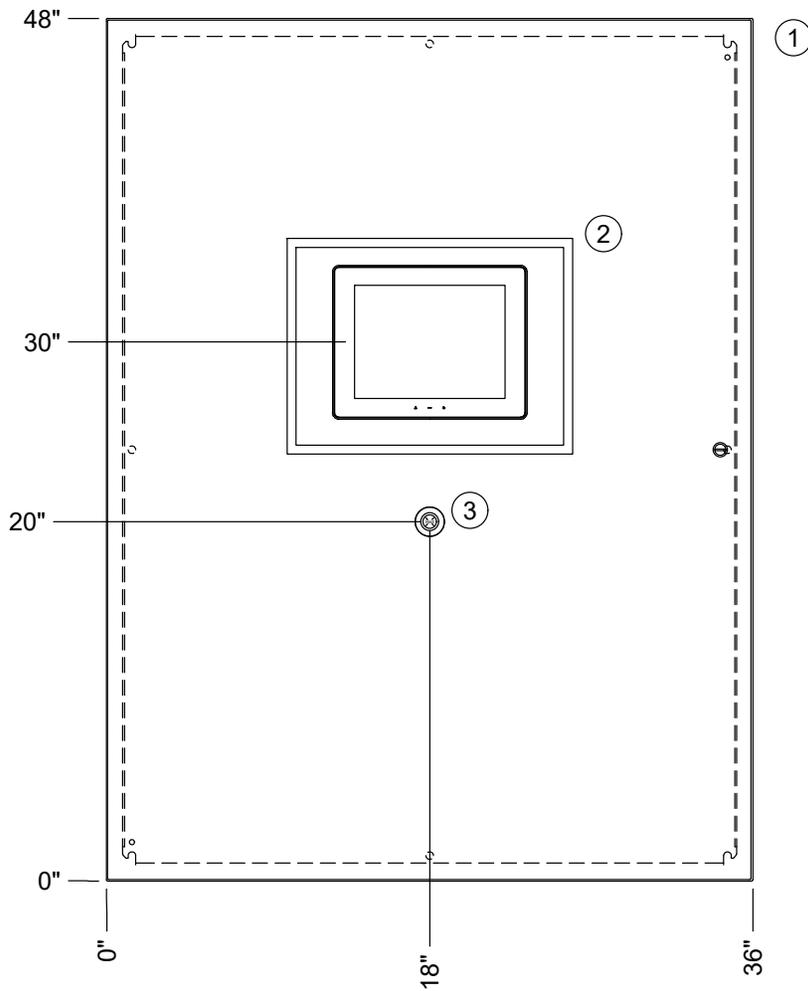
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UL 35-19 CTB  
Main Control Panel  
TABLE OF CONTENTS

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CREATED DATE: 08.04.2024	SCALE: NTS
PROJECT NUMBER: UL 35-19	SECTION SHEET: 00 001



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UL 35-19 CTB  
Main Control Panel  
Backplate Layout & Bill of Materials

DRAWN BY:	REV:
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CREATED DATE:	SCALE:
08.04.2024	NTS
PROJECT NUMBER:	SECTION SHEET:
UL 35-19	00 015

# BILL OF MATERIALS

Item	Qty	Mfg	RS Part#	MFG Part#	Description
1	1	Hoffman	n/a	CSD483612LG	Concept Single Door Enclosure, 48x36x12
	1	Hoffman	n/a	CP4836G	Galvanized Backpanel for 48x36 Enclosure
2	1	RedLion	n/a	G10S0000	Graphite®10" Modular HMI, Outdoor
	1	SHADE/AIDE	n/a	H87A485-4	Shade A/IDE, Large HMI Screen Size 15x11"
3	1	Allen Bradley	n/a	800T-FX6	30MM Mushroom Pushbutton
	1	Allen Bradley	n/a	800T-XD2	Contact Block, 1NC
	1	Allen Bradley	n/a	800T-N310	30mm Shroud Cover
4	1	Allen Bradley	n/a	5069-L380ERM	CompactLogix L380ER Processor
	1	Allen Bradley	n/a	5069-RTB64SCREW	CompactLogix L380ER RTB Kit
	4	Allen Bradley	n/a	5069-IB16	CompactLogix 16Ch Digital Input Module, 24VDC
	1	Allen Bradley	n/a	5069-OB16	CompactLogix 16Ch Digital Output Module, 24VDC Source
	4	Allen Bradley	n/a	5069-IF8	CompactLogix 8Ch Analog Input Module
	1	Allen Bradley	n/a	5069-OF8	CompactLogix 8Ch Analog Output Module
	10	Allen Bradley	n/a	5069-RTB18SCREW	CompactLogix I/O Module RTB
	1	Phoenix Contact	72057534	1085255	1016N, 16Port Unmanaged Ethernet Switch
	2	RedLion	72164979	DA50A0ENNO000020	DA50 Protocol Converter
	2	RedLion	71960542	DAS00PN24421S000	Dual RS485 Sled Unit
5	6	Phoenix Contact	70169101	0800886	Terminal Block End Clamp
	1	Phoenix Contact	70903540	2907492	UL489 Circuit Breaker, 20A
	7	Phoenix Contact	70169573	3044102	UT 4 - Feed-through terminal block
	6	Phoenix Contact	70169579	3044128	UT 4-PE- Ground terminal
	35	Phoenix Contact	70879218	3214320	UT 4-PE/L/HES 24 (5X20) 120KOHM - Fuse modular terminal block
	29	Bussman	74056979	GMA-5-R	Fuse, 5x20, 5A, Fast Acting
	6	Bussman	74056972	GMA-2-R	Fuse, 5x20, 2A, Fast Acting
	2	Phoenix Contact	70169101	0800886	Terminal Block End Clamp
	1	Phoenix Contact	70170031	1004348	End Clamp Marking Strip
	6	8	Phoenix Contact	70169573	3044102
64		Phoenix Contact	70417308	3214325	UT 4-L/HES (5X20) - Fuse modular terminal block
64		Bussman	74056971	GMA-250-R	Fuse, 5x20, 250mA, Fast Acting
16		Phoenix Contact	70207719	2966634	PLC-INTERFACEw/ Switch, SSRelay, 24 VDC
6		Phoenix Contact	70169101	0800886	Terminal Block End Clamp
5		Phoenix Contact	70170031	1004348	End Clamp Marking Strip
7	48	Phoenix Contact	70169573	3044102	UT 4 - Feed-through terminal block
	40	Phoenix Contact	70879218	3214320	UT 4-PE/L/HES 24 (5X20) 120KOHM - Fuse modular terminal block
	40	Bussman	74056971	GMA-250-R	Fuse, 5x20, 250mA, Fast Acting
	12	Phoenix Contact	70169101	0800886	Terminal Block End Clamp
8	11	Phoenix Contact	70170031	1004348	End Clamp Marking Strip
	A/R	Phoenix Contact	70169602	3047028	D-UT 2.5/10 - End cover (QTY 50)
	A/R	Phoenix Contact	70170280	3032224	FBS50-6 Plug-in Bridge (QTY 10)
	A/R	Phoenix Contact	70207707	2966786	Continuous Plug-in Bridge Length 500 mm (QTY 10)
	A/R	Phoenix Contact	70169602	3047028	D-UT 2.5/10 - End cover (QTY 50)
	A/R	Phoenix Contact	70169109	0801733	35mm Standard Din-Rail, 2M (6FT)
	A/R	Panduit	70333476	F2XLG6	2"x4"x6" (WxHxL) Wireway Duct, Narrow Slot/Finger,
	A/R	Panduit	70333409	C2LG6	2"x6" (WxL) Wireway Cover
	A/R	Panduit	70333490	F3XLG6	3"x4"x6" (WxHxL) Wireway Duct, Narrow Slot/Finger
	A/R	Panduit	70333413	C3LG6	3"x6" (WxL) Wireway Cover
A/R	Panduit	70333490	F4XLG6	4"x4"x6" (WxHxL) Wireway Duct, Narrow Slot/Finger	
A/R	Panduit	70333413	C4LG6	4"x6" (WxL) Wireway Cover	

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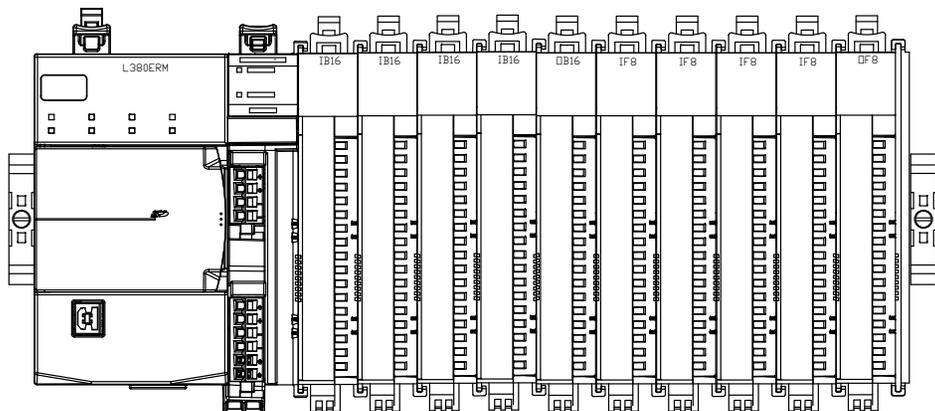
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UL 35-19 CTB  
Main Control Panel  
Bill of Materials

DRAWN BY:	REV:
LW	A
CREATED DATE:	SCALE:
08.04.2024	NTS
PROJECT NUMBER:	SECTION SHEET:
UL 35-19	00 016



D00/S00

D00/S01

D00/S02

D00/S03

D00/S04

D00/S05

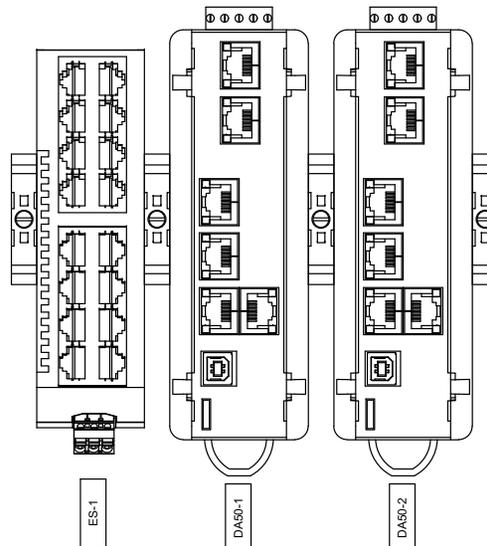
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D00/S07

D00/S08

D00/S09

D00/S10



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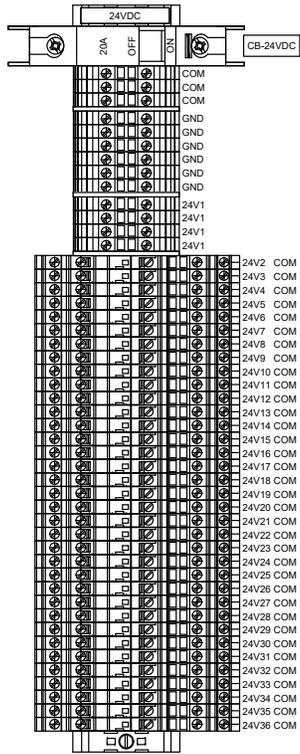
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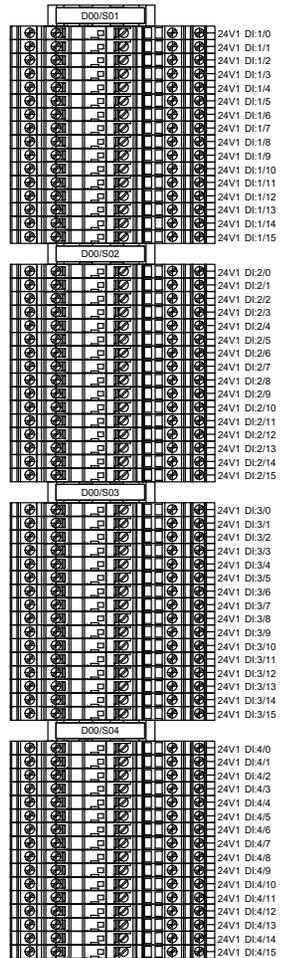
UL 35-19 CTB  
Main Control Panel  
Terminal Strip Details

DRAWN BY:	REV:
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CREATED DATE:	SCALE:
08.04.2024	NTS
PROJECT NUMBER:	SECTION SHEET:
UL 35-19	00 017

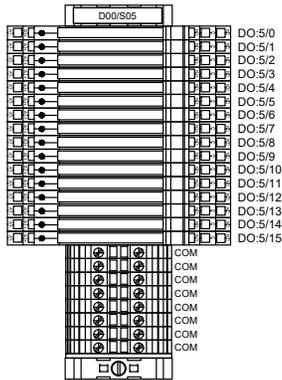
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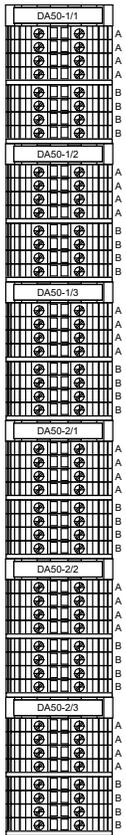
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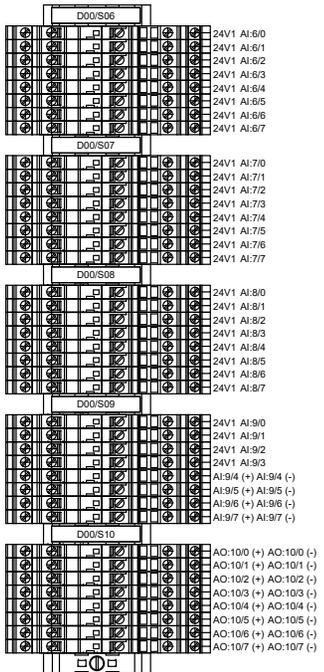
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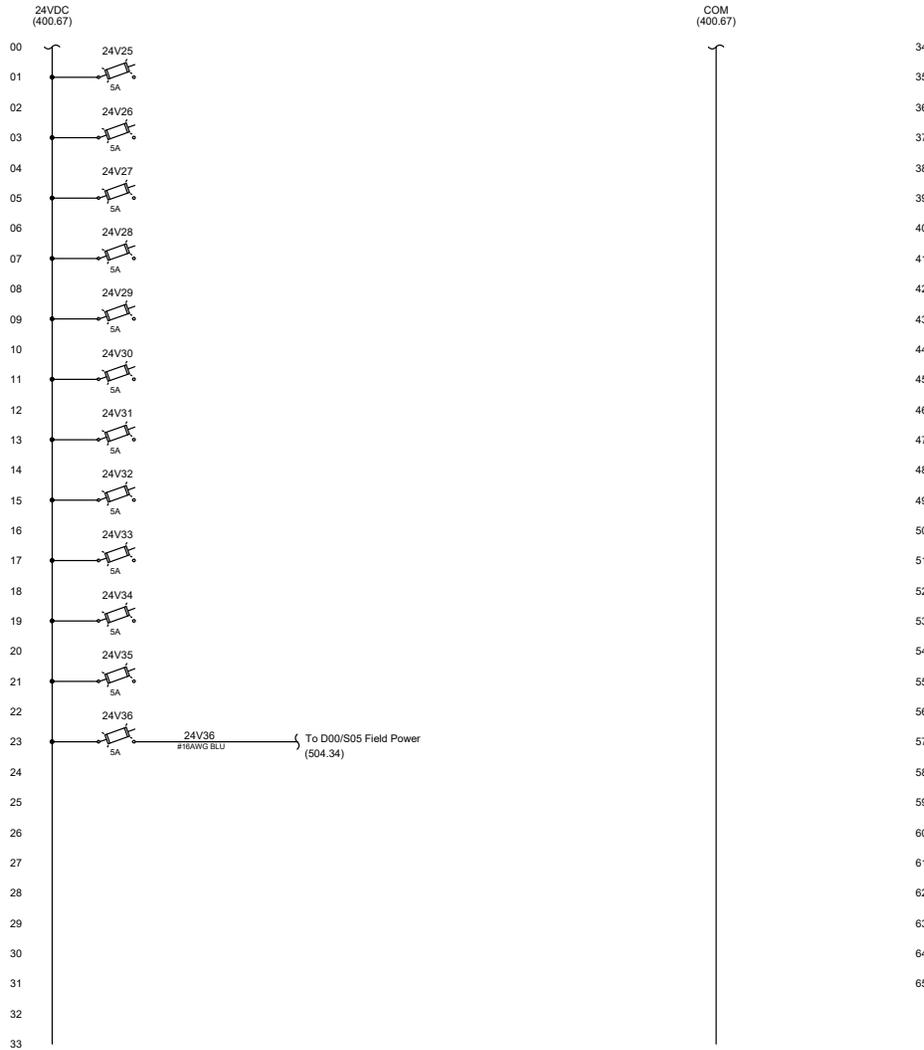
UL 35-19 CTB  
Main Control Panel  
Terminal Strip Details

DRAWN BY: LW	REV: A
CREATED DATE: 08.04.2024	SCALE: NTS
PROJECT NUMBER: UL 35-19	SECTION SHEET: 00 018



24VDC POWER DISTRIBUTION  
CONTROL WIRING

24VDC POWER DISTRIBUTION  
CONTROL WIRING



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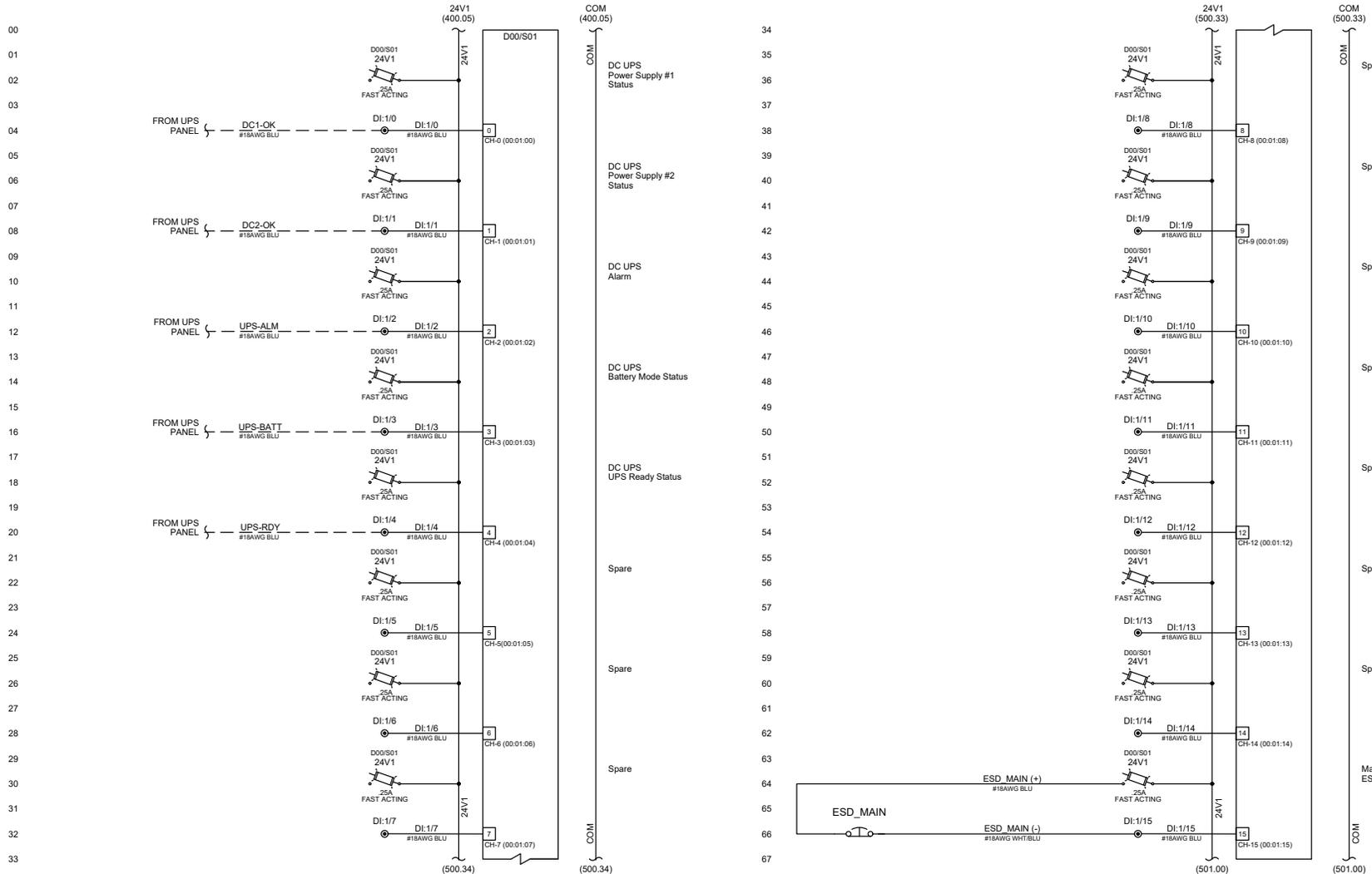
CLIENT: Civitas Resources

UL 35-19 CTB  
Main Control Panel  
24VDC  
POWER DISTRIBUTION

DESIGN BY: LW	REV: A
CREATED DATE: 08.04.2024	SCALE: NTS
PROJECT NUMBER: UL 35-19	SECTION SHEET: 00 401

DROP 00 SLOT 01  
16-CH DI 5069-IB16 + 5069-RTB18-SCREW

DROP 00 SLOT 01  
16-CH DI 5069-IB16 + 5069-RTB18-SCREW



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%, TO BE WIRED IN FIELD

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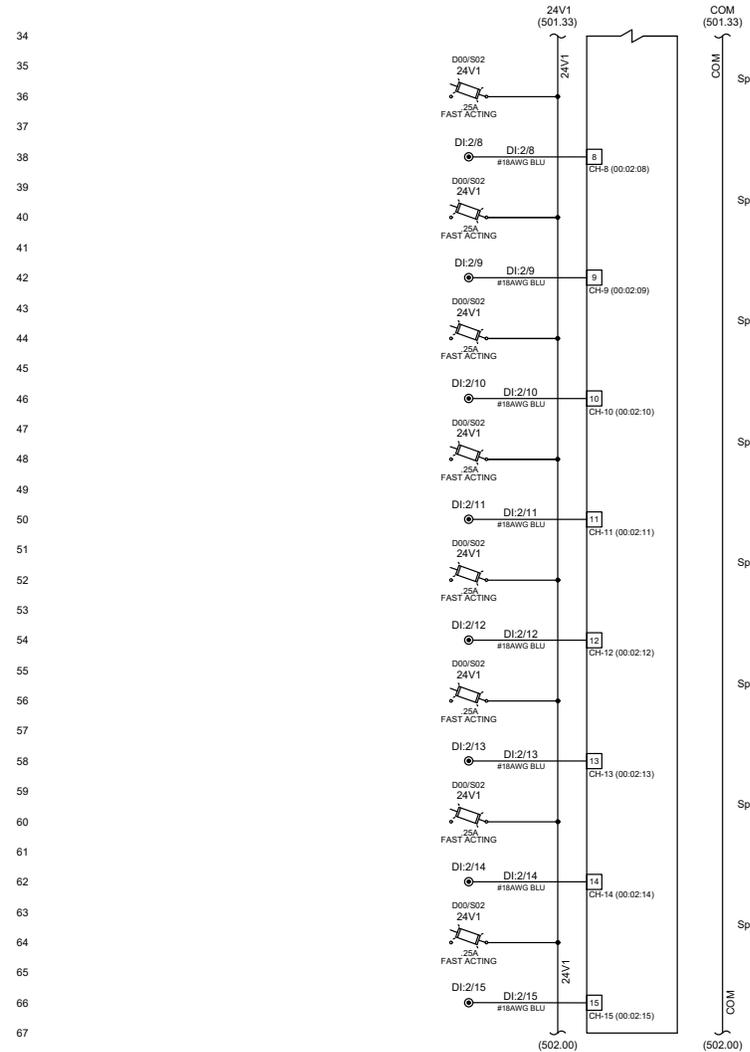
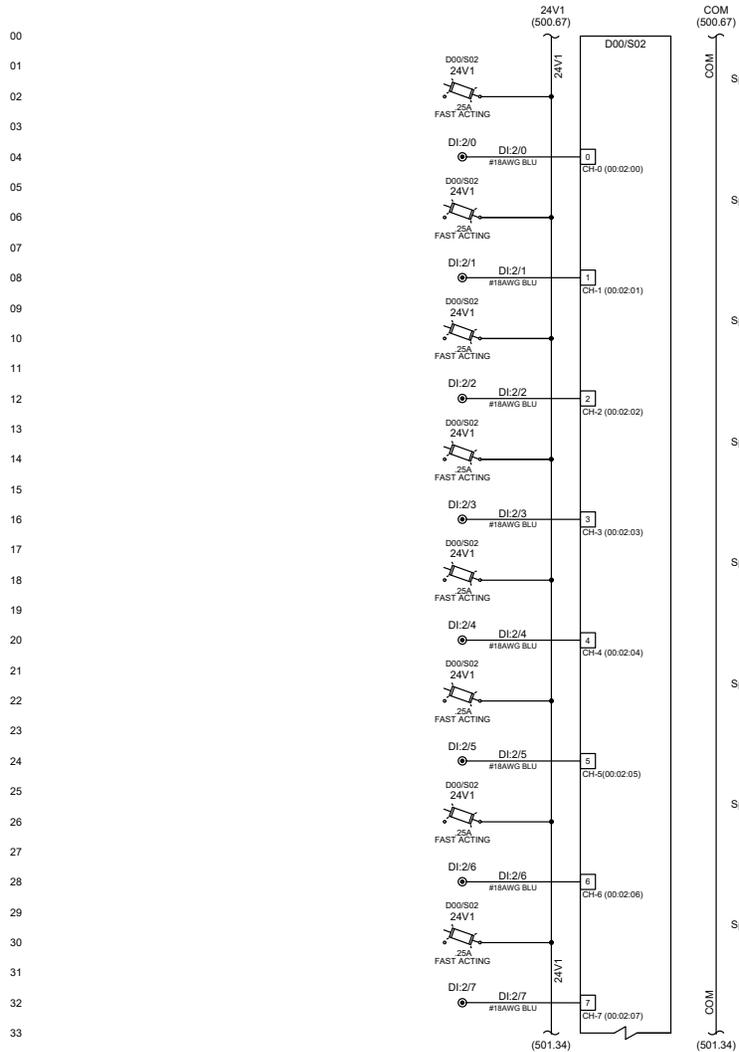
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UL 35-19 CTB  
Main Control Panel  
Drop 00 Slot 01  
16-CH Digital Input Module Wiring

DESIGN BY: LW	REV: A
CREATED DATE: 08.04.2024	SCALE: NTS
PROJECT NUMBER: UL 35-19	SECTION SHEET: 00 500

DROP 00 SLOT 02  
16-CH DI 5069-IB16 + 5069-RTB18-SCREW

DROP 00 SLOT 02  
16-CH DI 5069-IB16 + 5069-RTB18-SCREW



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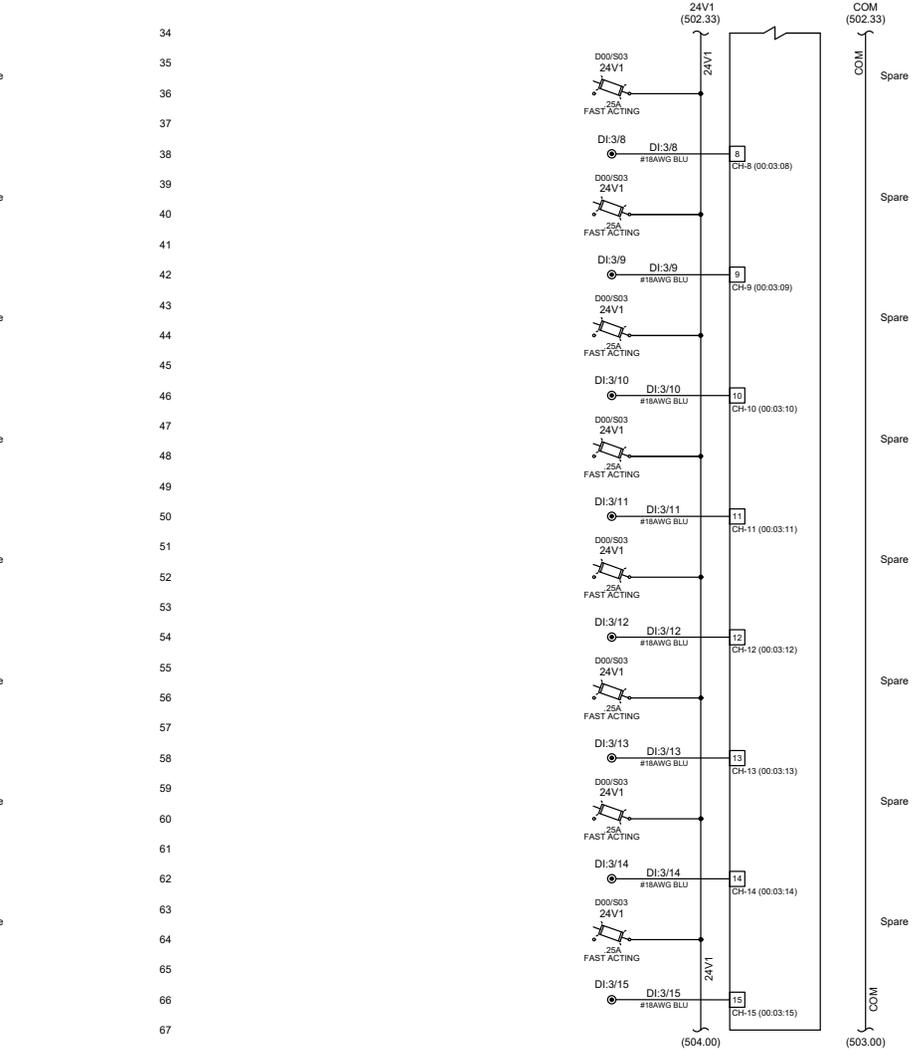
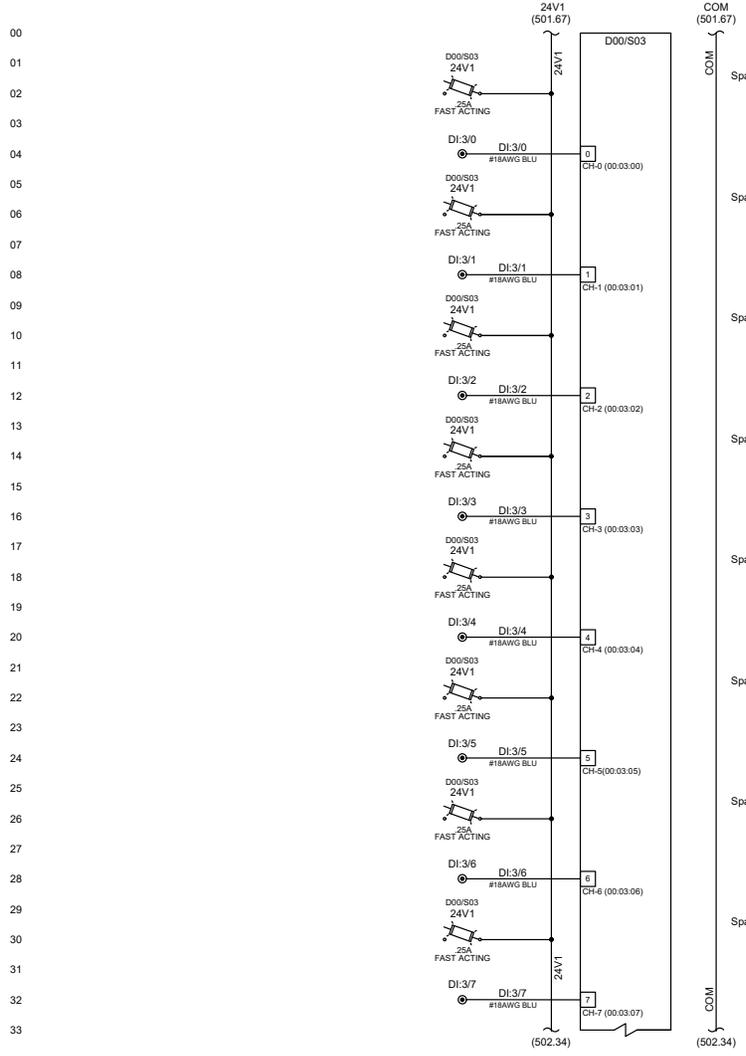
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UL 35-19 CTB  
Main Control Panel  
Drop 00 Slot 02  
16-CH Digital Input Module Wiring

DESIGN BY:	REV:
LW	A
CREATED DATE:	SCALE:
08.04.2024	NTS
PROJECT NUMBER:	SECTION SHEET:
UL 35-19	00 501

DROP 00 SLOT 03  
16-CH DI 5069-IB16 + 5069-RTB18-SCREW

DROP 00 SLOT 03  
16-CH DI 5069-IB16 + 5069-RTB18-SCREW



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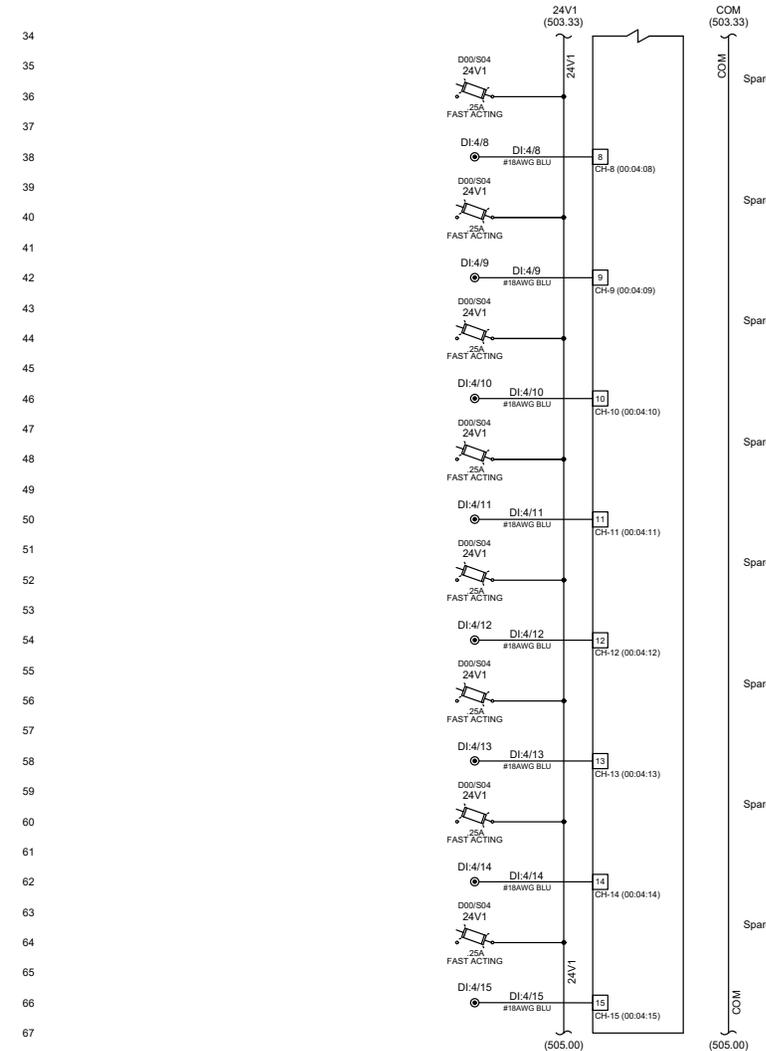
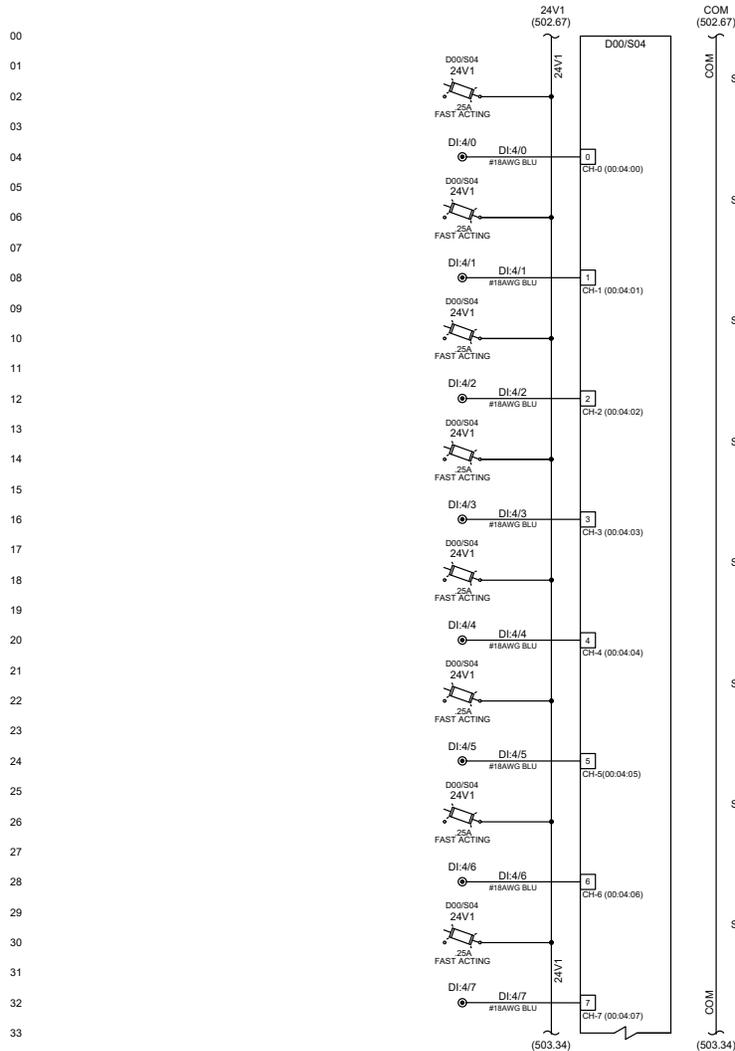


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**UL 35-19 CTB**  
Main Control Panel  
Drop 00 Slot 03  
16-CH Digital Input Module Wiring

DESIGN BY: LW	REV: A
CREATED DATE: 08.04.2024	SCALE: NTS
PROJECT NUMBER: UL 35-19	SECTION SHEET: 00 502

DROP 00 SLOT 04  
16-CH DI 5069-IB16 + 5069-RTB18-SCREW

DROP 00 SLOT 04  
16-CH DI 5069-IB16 + 5069-RTB18-SCREW



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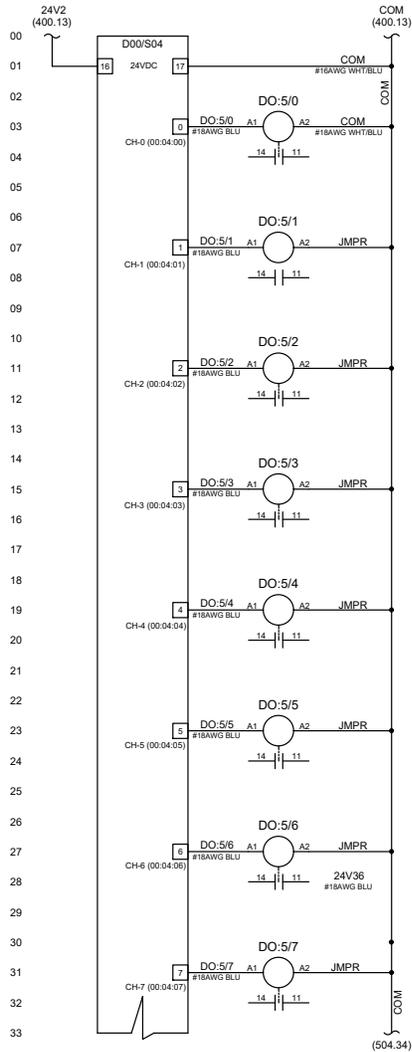
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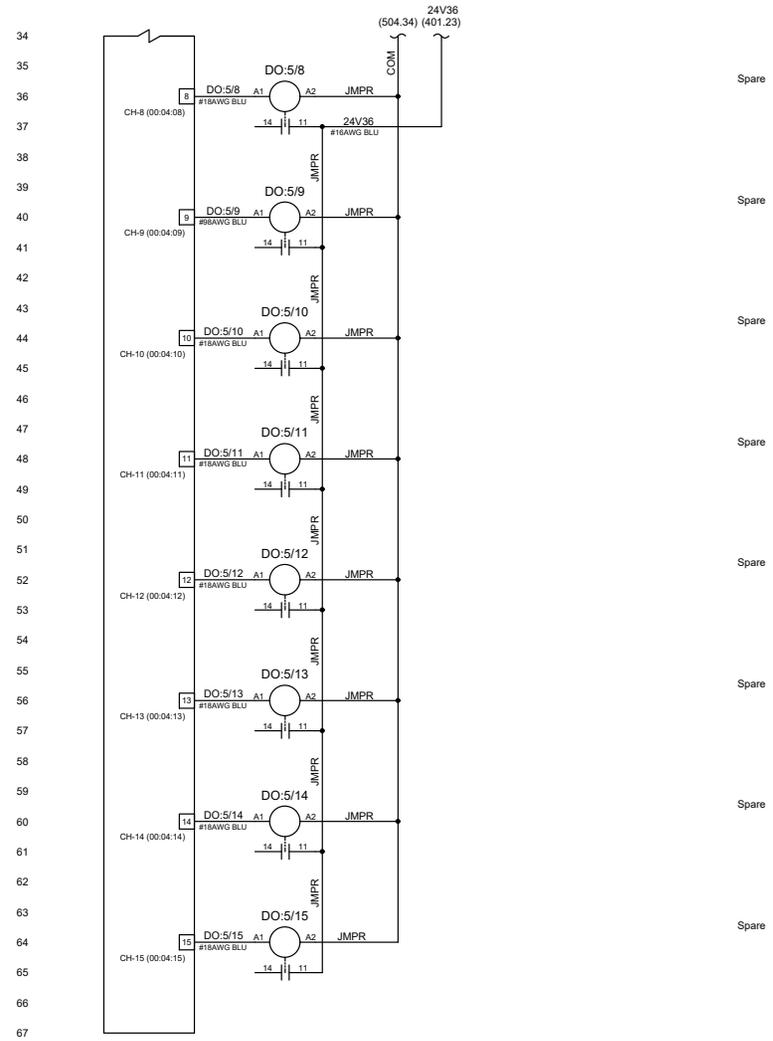
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**UL 35-19 CTB**  
Main Control Panel  
Drop 00 Slot 04  
16-CH Digital Input Module Wiring

DESIGN BY: LW	REV: A
CREATED DATE: 08.04.2024	SCALE: NTS
PROJECT NUMBER: UL 35-19	SECTION SHEET: 00 503

DROP 00 Slot 05  
16-CH DO 5069-OB16 + 5069-RTB18-SCREW



DROP 00 Slot 05  
16-CH DO 5069-OB16 + 5069-RTB18-SCREW



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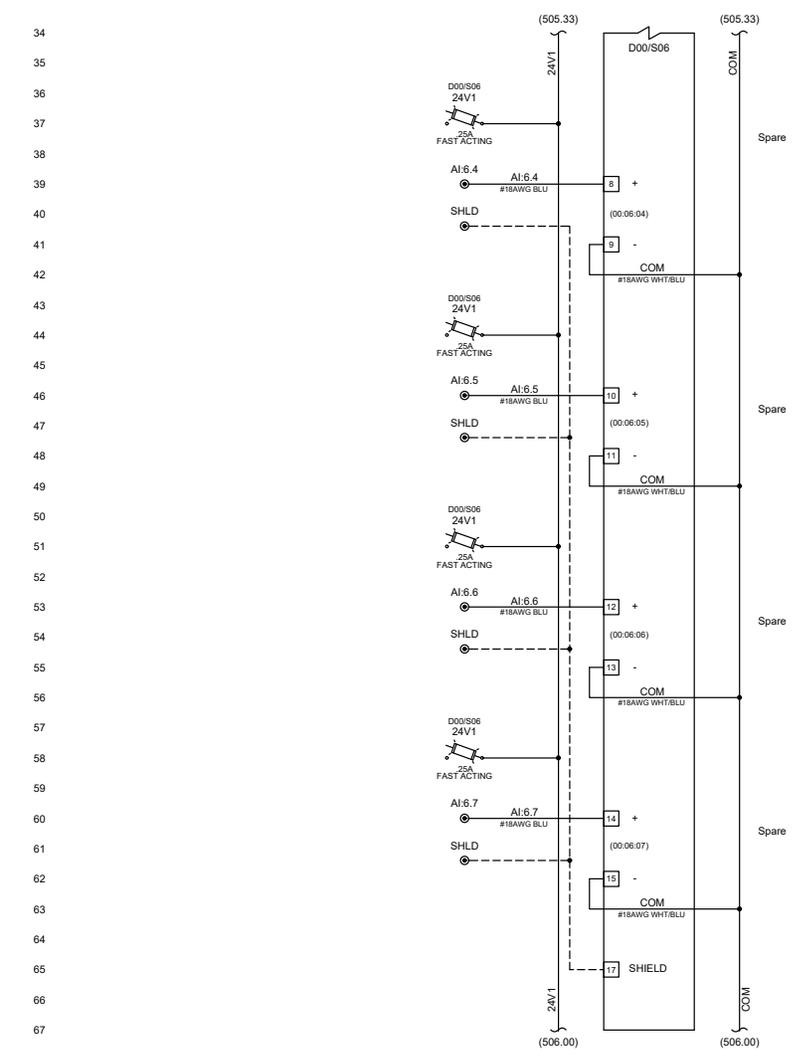
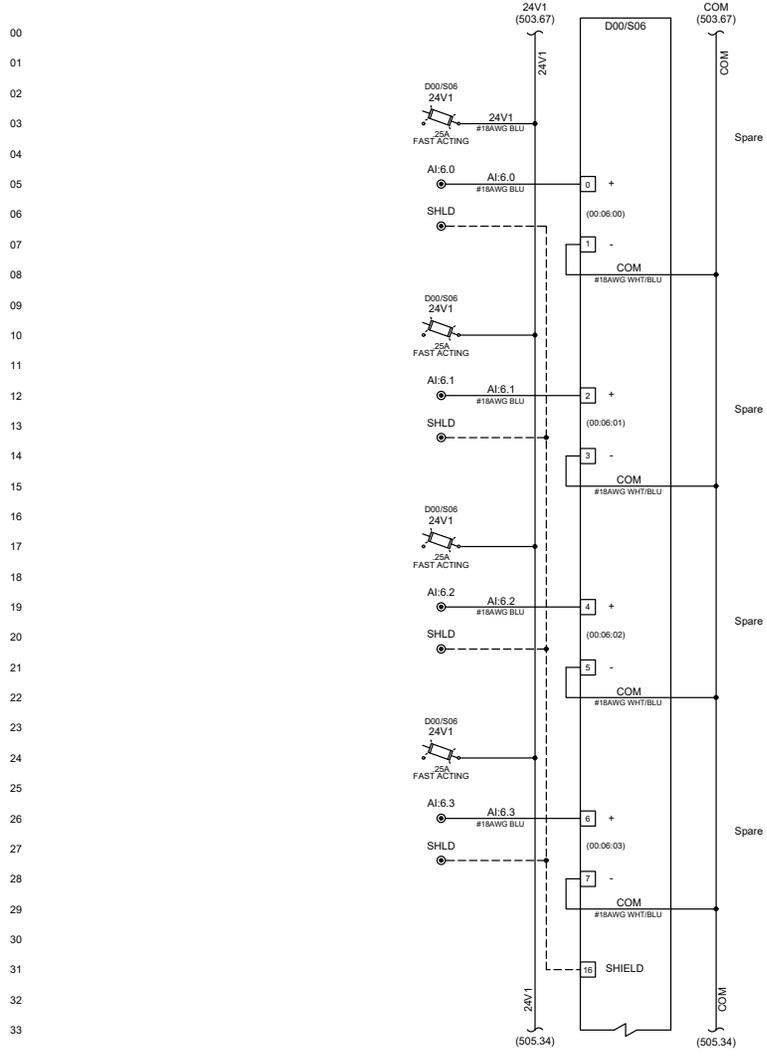


UL 35-19 CTB  
Main Control Panel  
Drop 00 Slot 05  
16-CH Digital Output Module Wiring

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LW	A
CREATED DATE:	SCALE:
08.04.2024	NTS
PROJECT NUMBER:	SECTION SHEET:
UL 35-19	00 504

DROP 00 Slot 06  
8-CH AI 5069-IF8 + 5069-RTB18-SCREW

DROP 00 Slot 06  
8-CH AI 5069-IF8 + 5069-RTB18-SCREW



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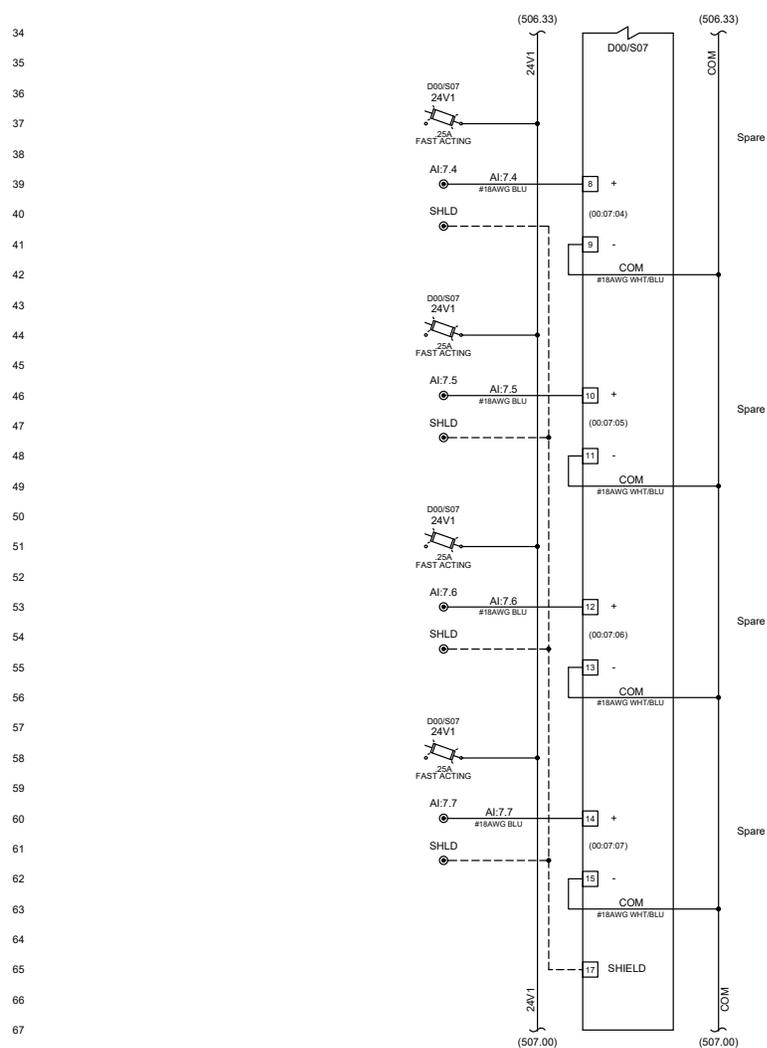
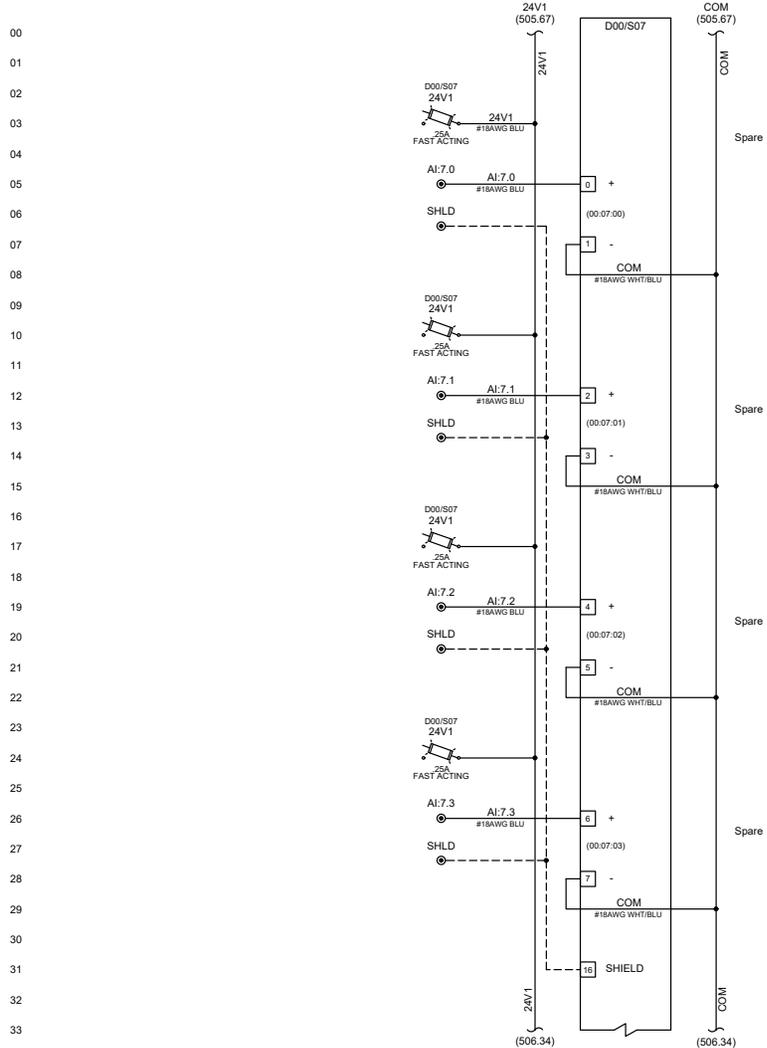
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UL 35-19 CTB  
Main Control Panel  
Drop 00 Slot 06  
8-CH Analog Input Module Wiring

DESIGN BY: LW	REV: A
CREATED DATE: 08.04.2024	SCALE: NTS
PROJECT NUMBER: UL 35-19	SECTION SHEET: 00 505

DROP 00 Slot 07  
8-CH AI 5069-IF8 + 5069-RTB18-SCREW

DROP 00 Slot 07  
8-CH AI 5069-IF8 + 5069-RTB18-SCREW



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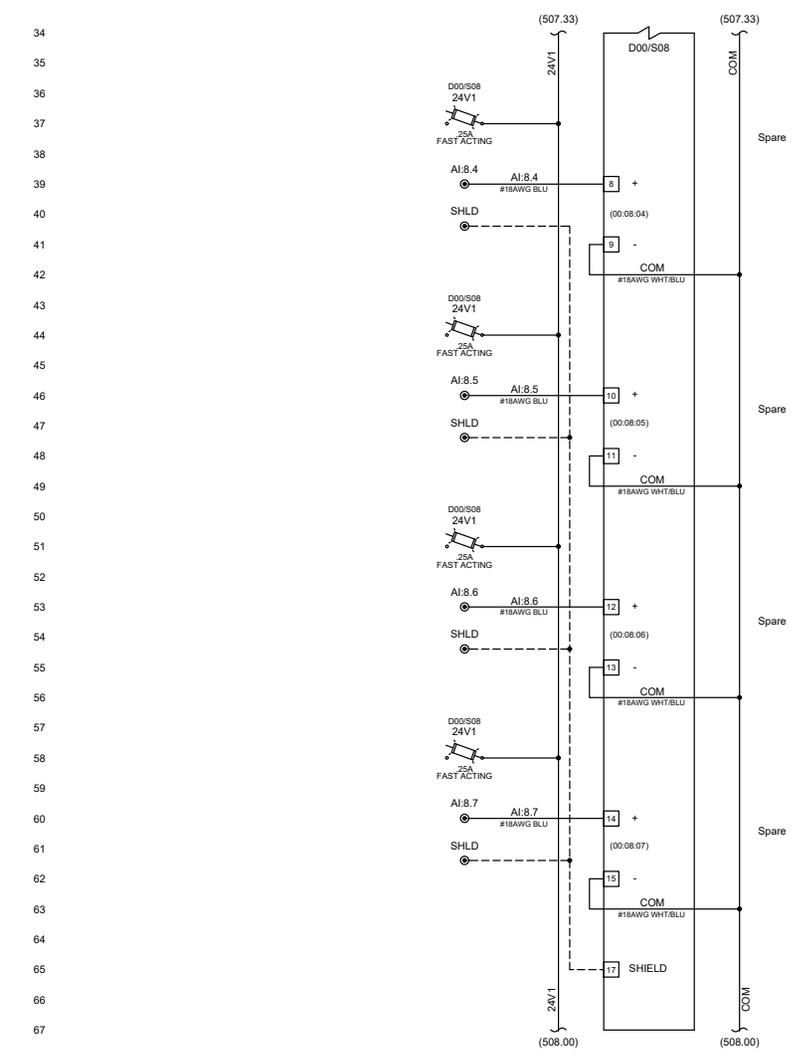
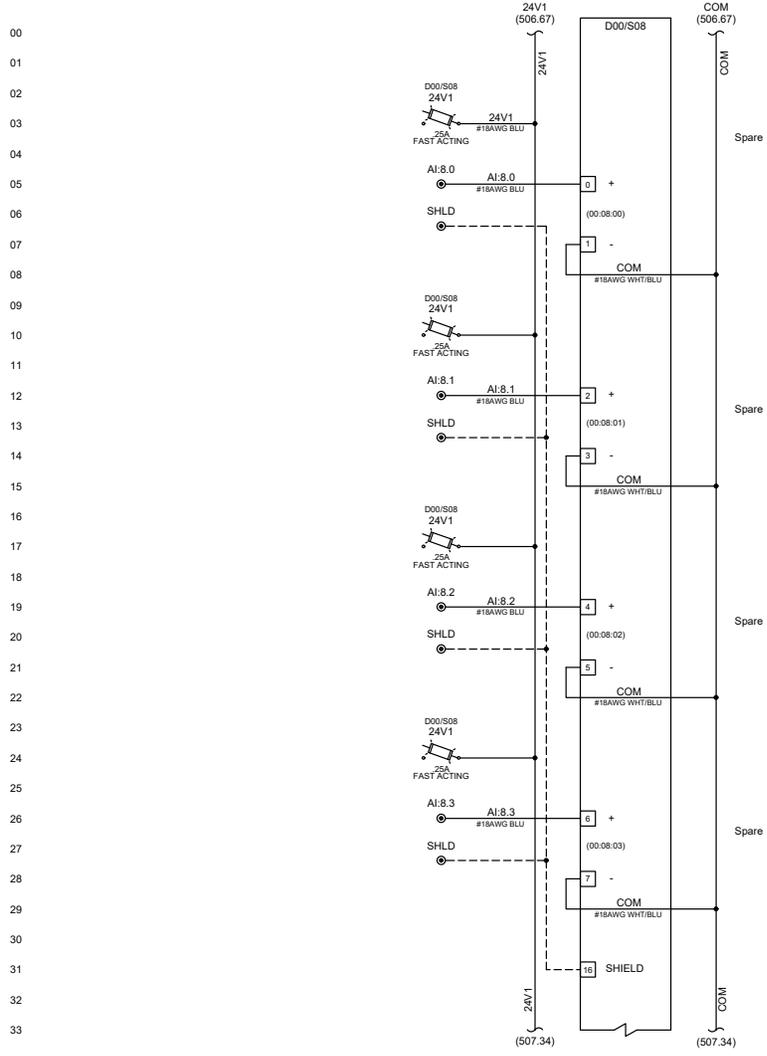
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UL 35-19 CTB  
Main Control Panel  
Drop 00 Slot 07  
8-CH Analog Input Module Wiring

DESIGN BY: LW	REV: A
CREATED DATE: 08.04.2024	SCALE: NTS
PROJECT NUMBER: UL 35-19	SECTION SHEET: 00 506

DROP 00 Slot 08  
8-CH AI 5069-IF8 + 5069-RTB18-SCREW

DROP 00 Slot 08  
8-CH AI 5069-IF8 + 5069-RTB18-SCREW



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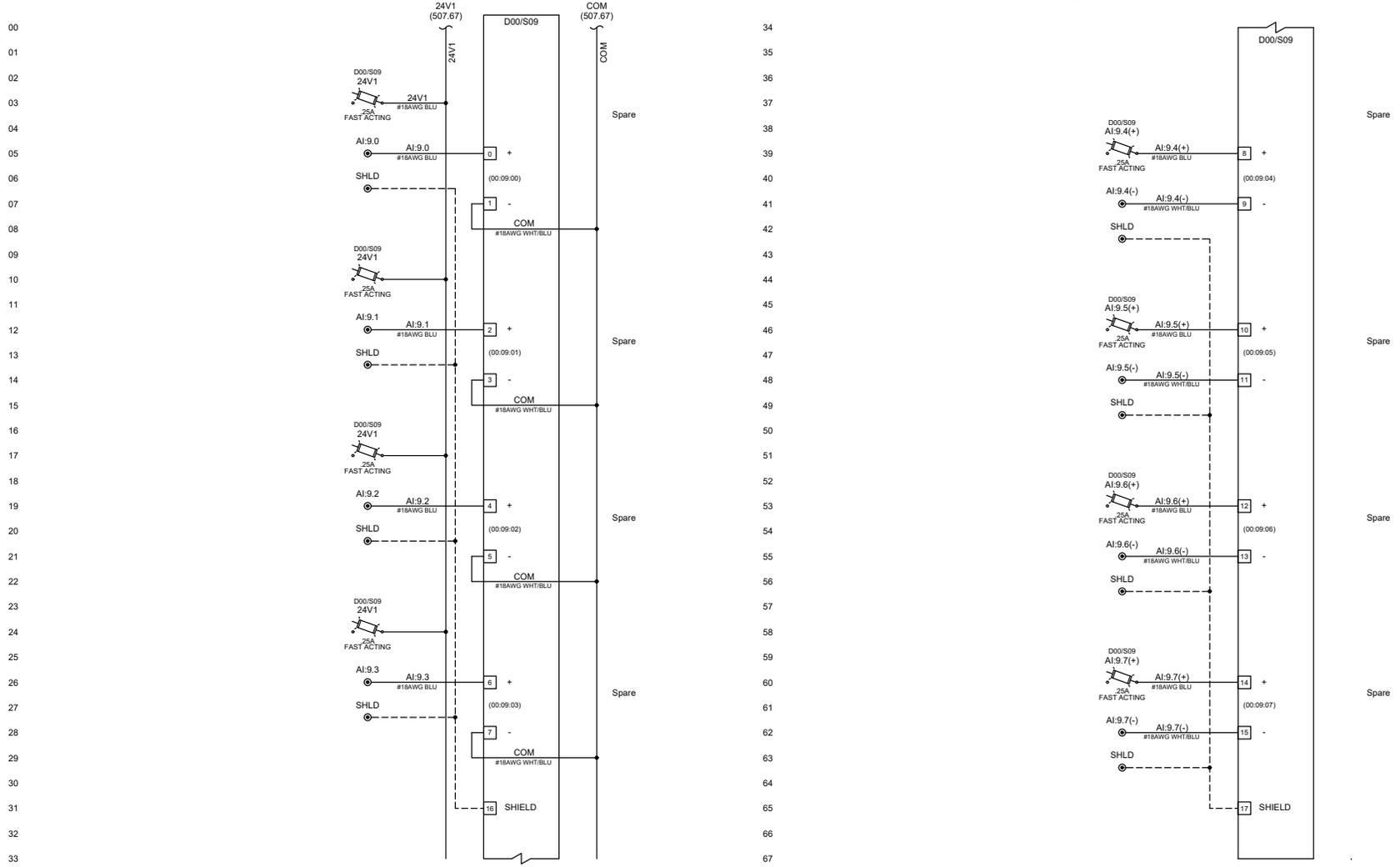
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UL 35-19 CTB  
Main Control Panel  
Drop 00 Slot 08  
8-CH Analog Input Module Wiring

DESIGN BY: LW	REV: A
CREATED DATE: 08.04.2024	SCALE: NTS
PROJECT NUMBER: UL 35-19	SECTION SHEET: 00 507

DROP 00 Slot 09  
8-CH AI 5069-IF8 + 5069-RTB18-SCREW

DROP 00 Slot 09  
8-CH AI 5069-IF8 + 5069-RTB18-SCREW  
\*\*NOTE DIFFERENTIAL INPUT WIRING CONFIGURATION



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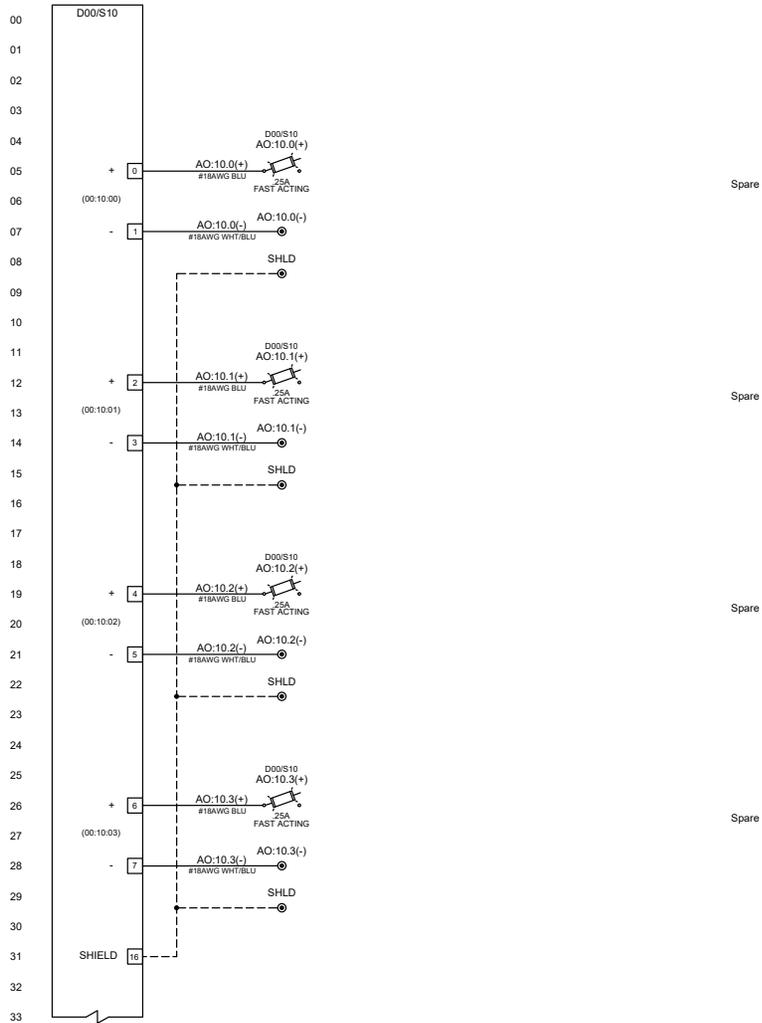
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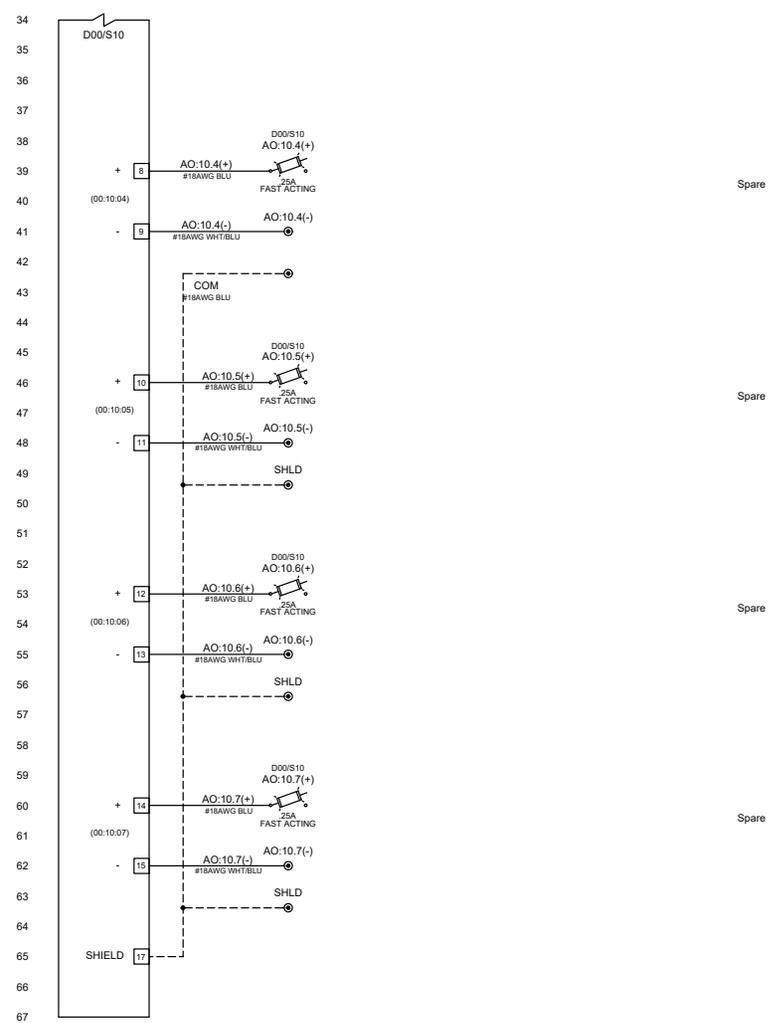
UL 35-19 CTB  
Main Control Panel  
Drop 00 Slot 09  
8-CH Analog Input Module Wiring

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PROJECT NUMBER: UL 35-19	SECTION SHEET: 00 508

DROP 00 Slot 10  
8-CH AO 5079-0F8 + 5079-RTB18-SCREW



DROP 00 Slot 10  
8-CH AO 5079-0F8 + 5079-RTB18-SCREW



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UL 35-19 CTB  
Main Control Panel  
Drop 00 Slot 10  
8-CH Analog Output Module Wiring

DESIGN BY:	REV:
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CREATED DATE:	SCALE:
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PROJECT NUMBER:	SECTION SHEET:
UL 35-19	00 509