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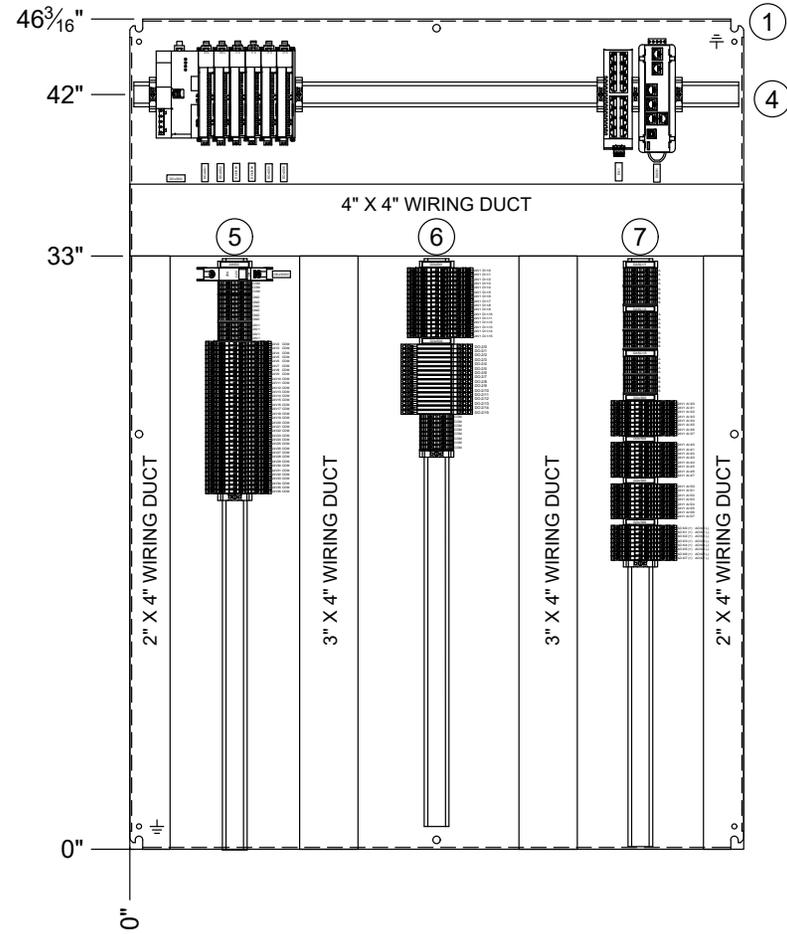
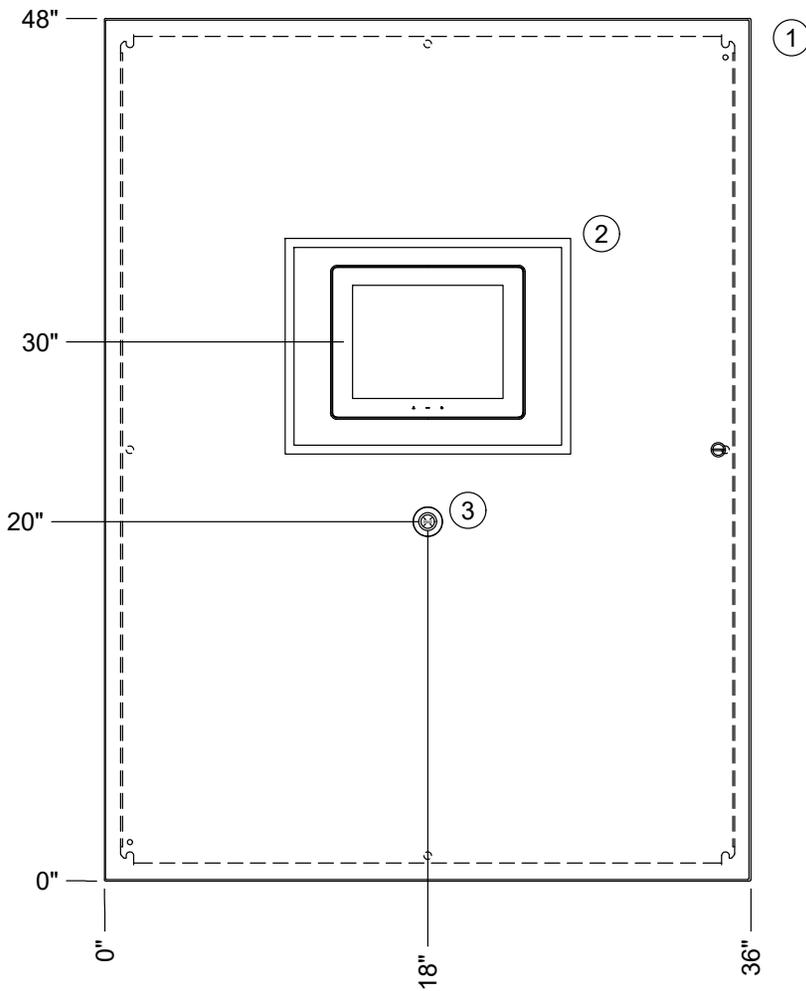
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UL 35-19 CTB
Well Pad RIO Typical (1,2,3)
TABLE OF CONTENTS

DRAFTER BY: LW	REV: A
CREATED DATE: 08.04.2024	SCALE: NTS
PROJECT NUMBER: UL 35-19	SECTION SHEET: 01 001



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UL 35-19 CTB
Well Pad RIO Typical (1,2,3)
Backplate Layout & Bill of Materials

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CREATED DATE:	SCALE:
08.04.2024	NTS
PROJECT NUMBER:	SECTION SHEET:
UL 35-19	01 015

BILL OF MATERIALS

Item	Qty	Mfg	RSPart#	MFGPart#	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	G10S000	Graphite®10" Modular HMI, Outdoor
	1	SHADE/AIDE	n/a	H87A485-4	Shade/AIDE, 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
4	1	Allen Bradley	n/a	800T-N310	30mm Shroud Cover
	1	Allen Bradley	n/a	5069-AENTR	CompactLogix Ethernet/IP Adapter
	1	Allen Bradley	n/a	5069-RTB5SCREW	CompactLogix AENTR RTB Kit
	1	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
	3	Allen Bradley	n/a	5069-IF8	CompactLogix 8Ch Analog Input Module
	1	Allen Bradley	n/a	5069-OF8	CompactLogix 8Ch Analog Output Module
	6	Allen Bradley	n/a	5069-RTB18SCREW	CompactLogix I/O Module RTB
	1	Phoenix Contact	72057534	1085255	1016N, 16Port Unmanaged Ethernet Switch
	1	RedLion	72164979	DA50A0ENIN0000020	DA50 Protocol Converter
1	RedLion	71960542	DAS00PN2442IS000	Dual RS485 Sled Unit	
5	5	Phoenix Contact	70169101	0800886	Terminal Block End Clamp
	1	Phoenix Contact	70903540	2907492	UL489 Circuit Breaker, 20A
	7	Phoenix Contact	70169573	3044102	UT4 - 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
	8	Phoenix Contact	70169573	3044102	UT4 - Feed-through terminal block
6	16	Phoenix Contact	70417308	3214325	UT 4-L/HES (5X20) - Fuse modular terminal block
	16	Bussman	74056971	GMA-250-R	Fuse, 5x20, 250mA, Fast Acting
	16	Phoenix Contact	70207719	2966634	PLC-INTERFACE w/ Switch, SSRelay, 24VDC
	3	Phoenix Contact	70169101	0800886	Terminal Block End Clamp
	2	Phoenix Contact	70170031	1004348	End Clamp Marking Strip
	32	Phoenix Contact	70169573	3044102	UT4 - Feed-through terminal block
7	32	Phoenix Contact	70879218	3214320	UT 4-PE/L/HES 24 (5X20) 120KOHM - Fuse modular terminal block
	32	Bussman	74056971	GMA-250-R	Fuse, 5x20, 250mA, Fast Acting
	9	Phoenix Contact	70169101	0800886	Terminal Block End Clamp
	7	Phoenix Contact	70170031	1004348	End Clamp Marking Strip
8	A/R	Phoenix Contact	70169602	3047028	D-UT 2, 5/10 - End cover (QTY50)
	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 (QTY50)
	A/R	Phoenix Contact	70169109	0801733	35mm Standard Din-Rail, 2M (6FT)
	A/R	Panduit	70333476	F2X4LG6	2"X4"X6' (W&Hd.) W/reway Duct, Narrow Slot/Finger,
	A/R	Panduit	70333409	C2LG6	2"X6' (W&L) W/reway Cover
	A/R	Panduit	70333490	F3X4LG6	3"X4"X6' (W&Hd.) W/reway Duct, Narrow Slot/Finger
	A/R	Panduit	70333413	C3LG6	3"X6' (W&L) W/reway Cover
	A/R	Panduit	70333490	F4X4LG6	4"X4"X6' (W&Hd.) W/reway Duct, Narrow Slot/Finger
A/R	Panduit	70333413	C4LG6	4"X6' (W&L) W/reway Cover	

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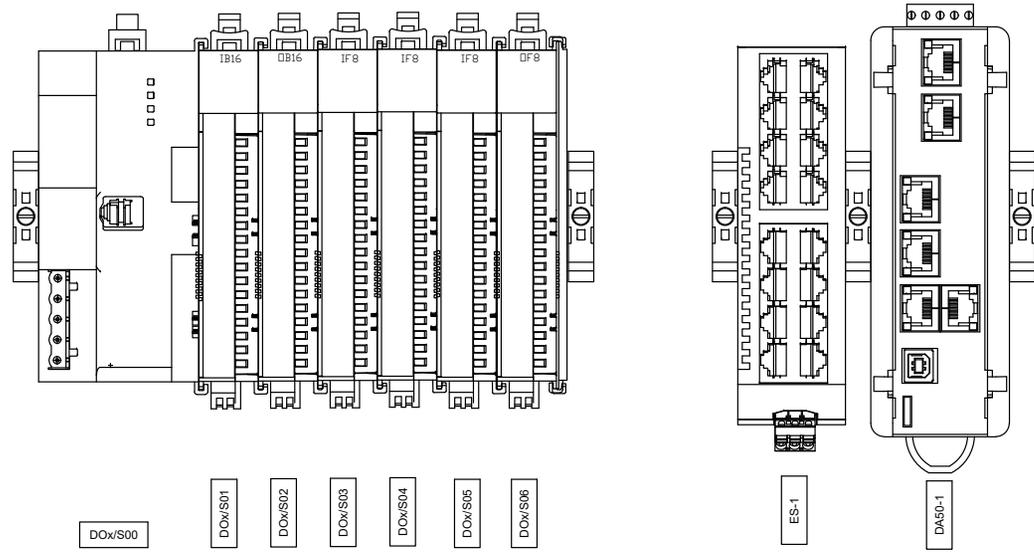
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UL 35-19 CTB
Well Pad RIO Typical (1,2,3)
Bill of Materials

DRAWN BY: LW	REV: A
CREATED DATE: 08.04.2024	SCALE: NTS
PROJECT NUMBER: UL 35-19	SECTION SHEET: 01 016



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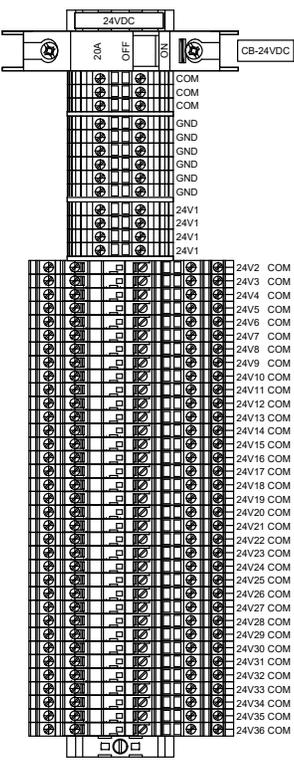
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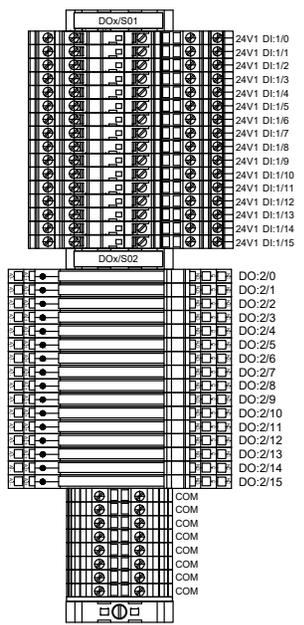
UL 35-19 CTB
Well Pad RIO Typical (1,2,3)
Terminal Strip Details

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LW	A
CREATED DATE:	SCALE:
08.04.2024	NTS
PROJECT NUMBER:	SECTION SHEET:
UL 35-19	01 017

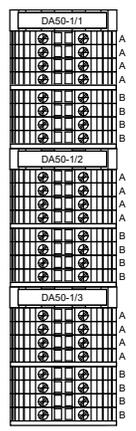
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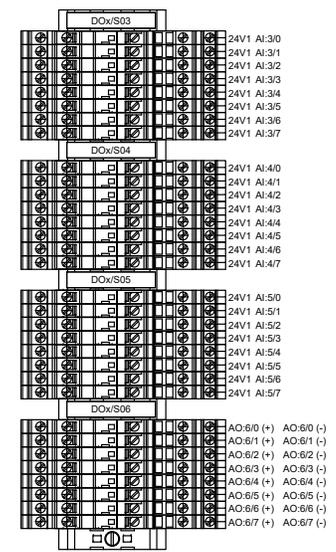
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7



7



Typical Note: Replace
D0(x) with D01, D02, D03
Respectively.

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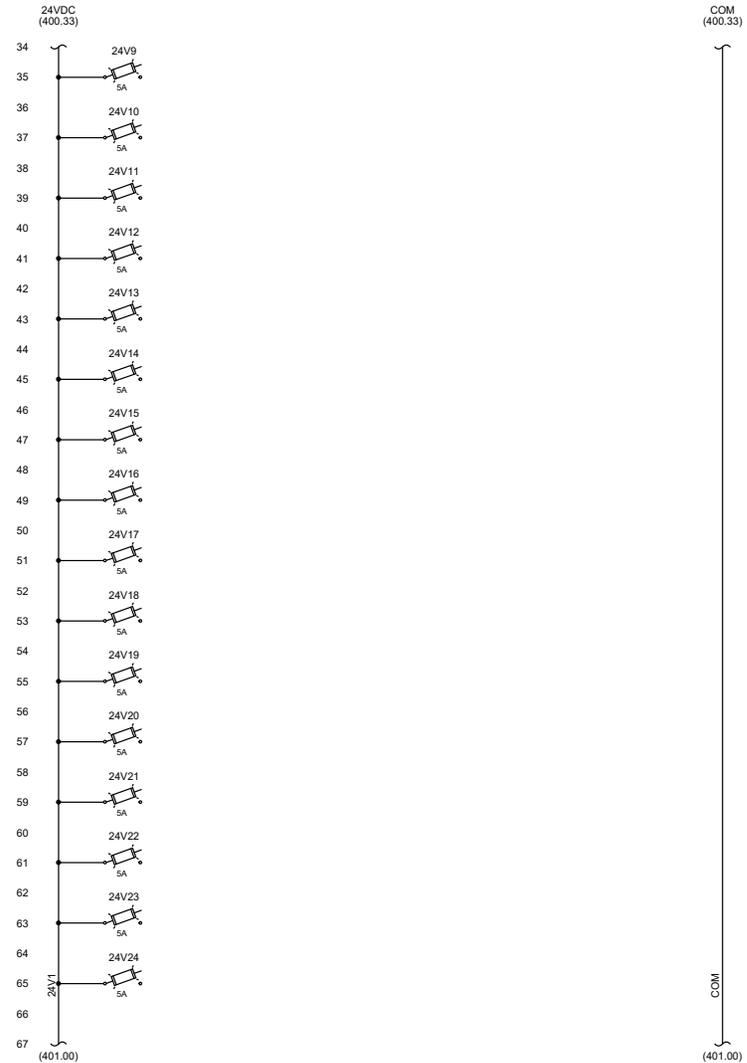
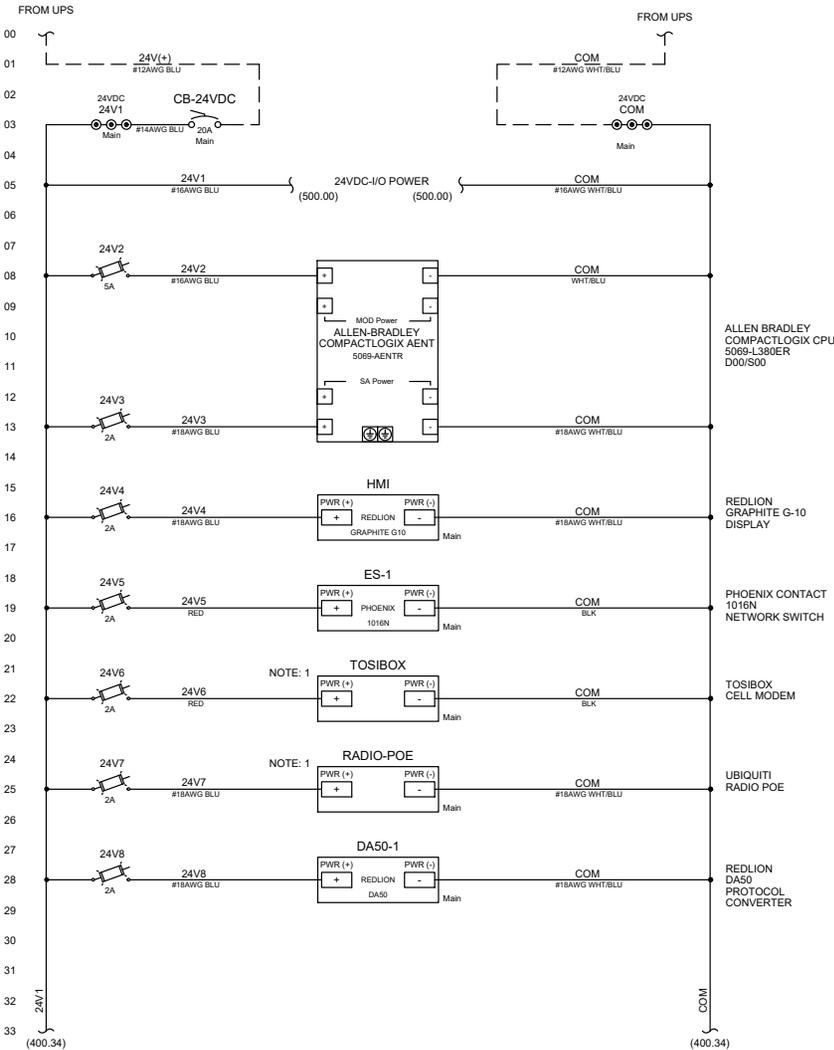
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UL 35-19 CTB
Well Pad RIO Typical (1,2,3)
Terminal Strip Details

DRAWN BY:		REV:	
LW		A	
CREATED DATE:		SCALE:	
08.04.2024		NTS	
PROJECT NUMBER:		SECTION SHEET:	
UL 35-19		01	018

24VDC POWER DISTRIBUTION
CONTROL WIRING

24VDC POWER DISTRIBUTION
CONTROL WIRING



DRAFTING NOTES:
1. TO BE WIRED IN FIELD

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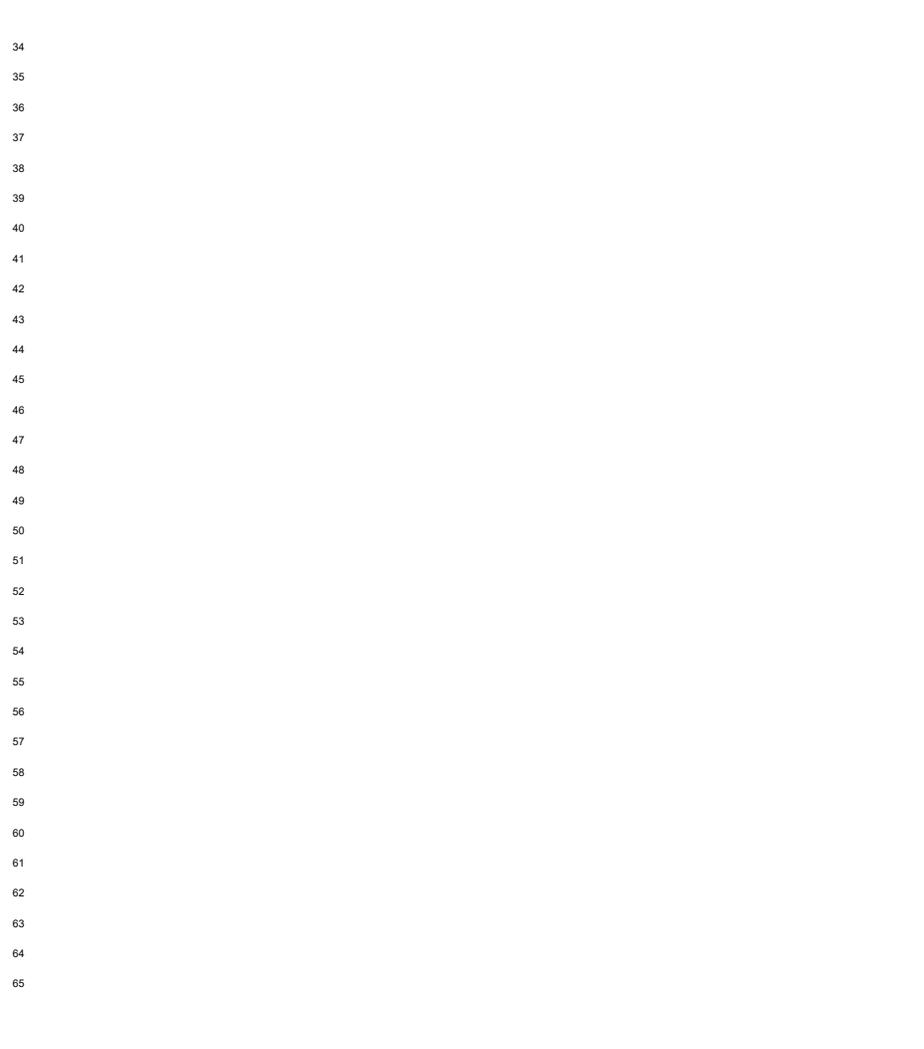
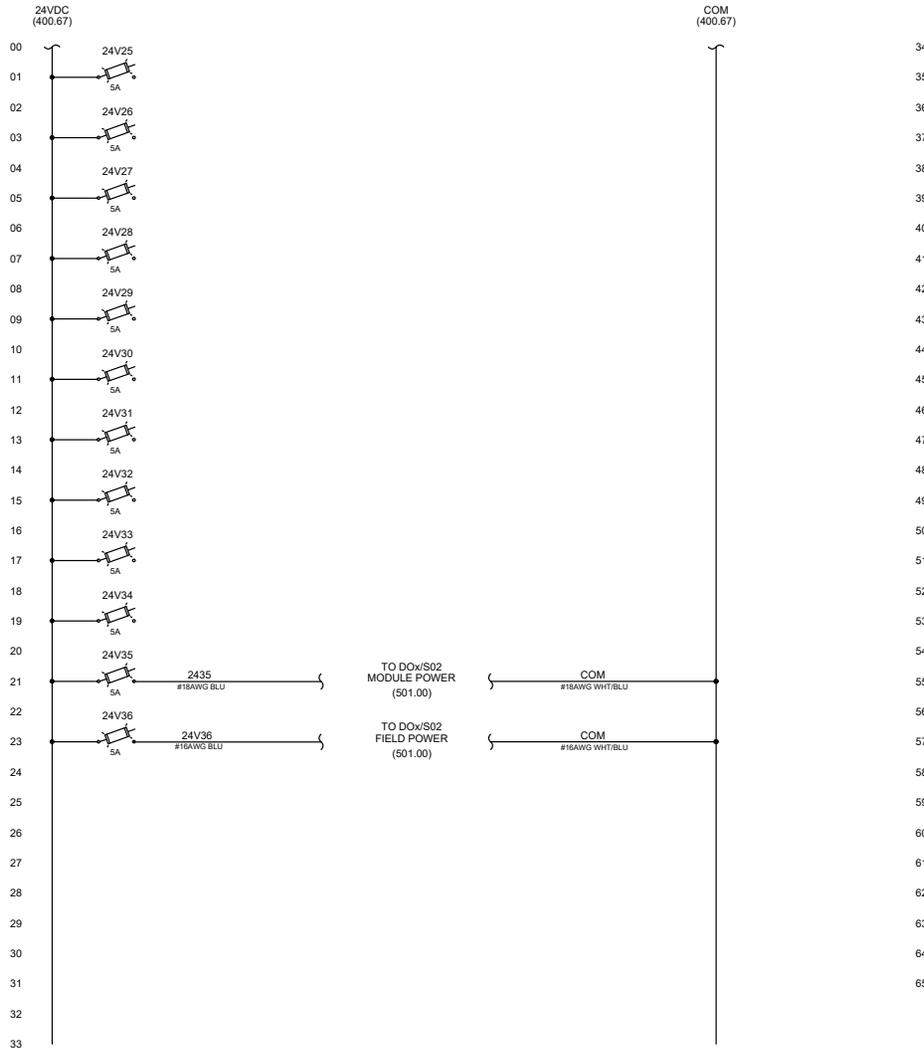
CIVITAS

UL 35-19 CTB
Well Pad RIO Typical (1,2,3)
24VDC
POWER DISTRIBUTION

DRAWN BY: LW	REV: A
CREATED DATE: 08.04.2024	SCALE: NTS
PROJECT NUMBER: UL 35-19	SECTION SHEET: 01 400

24VDC POWER DISTRIBUTION
CONTROL WIRING

24VDC POWER DISTRIBUTION
CONTROL WIRING



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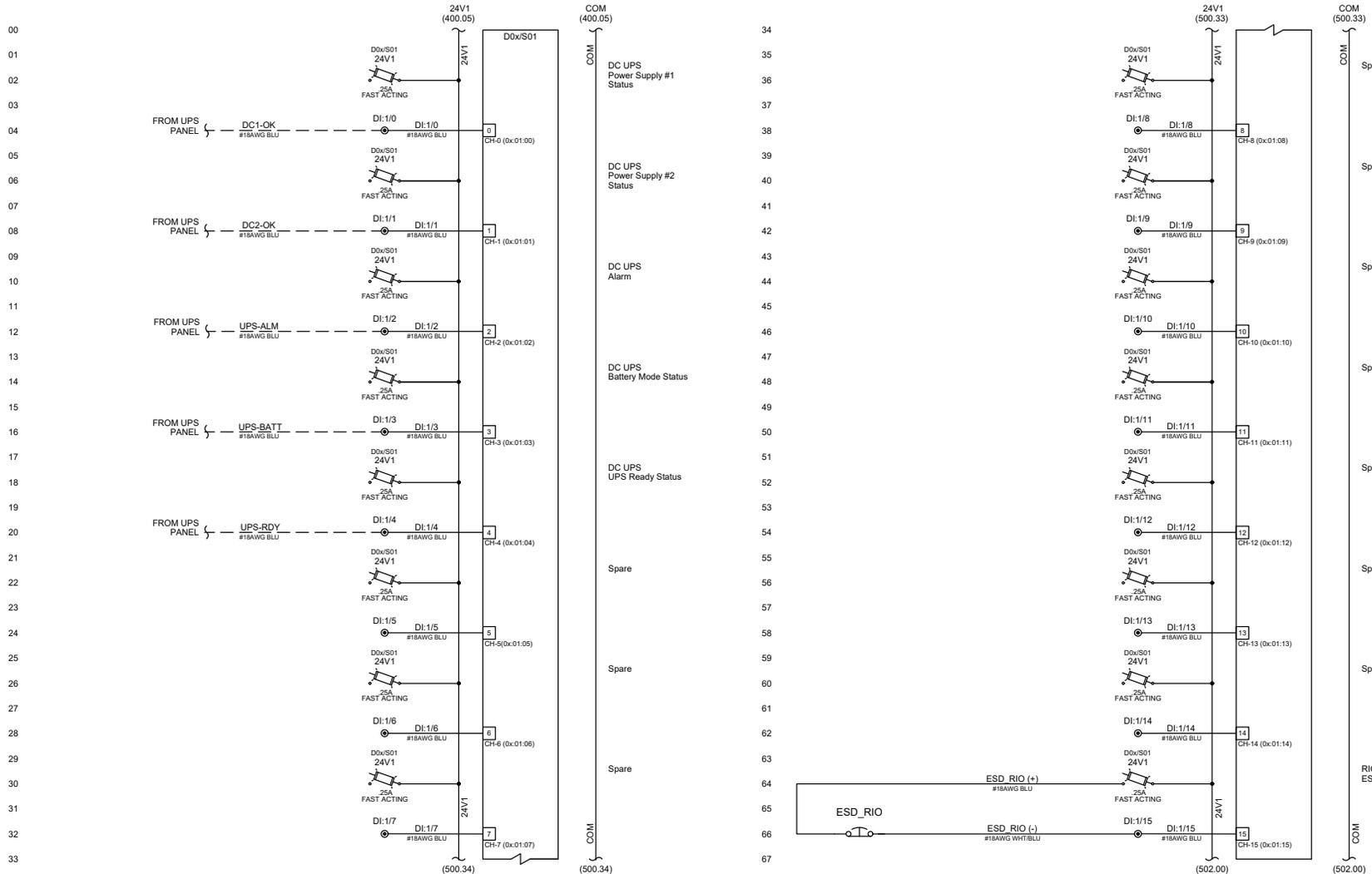
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UL 35-19 CTB
Well Pad RIO Typical (1,2,3)
24VDC
POWER DISTRIBUTION

DESIGN BY:	REV:
LW	A
CREATED DATE:	SCALE:
08.04.2024	NTS
PROJECT NUMBER:	SECTION SHEET:
UL 35-19	01 401

DROP 0x SLOT 01
16-CH DI 5069-IB16 + 5069-RTB18-SCREW

DROP 0x SLOT 01
16-CH DI 5069-IB16 + 5069-RTB18-SCREW



DRAFTING NOTES:
%, TO BE WIRED IN FIELD

REV	DATE	DESCRIPTION
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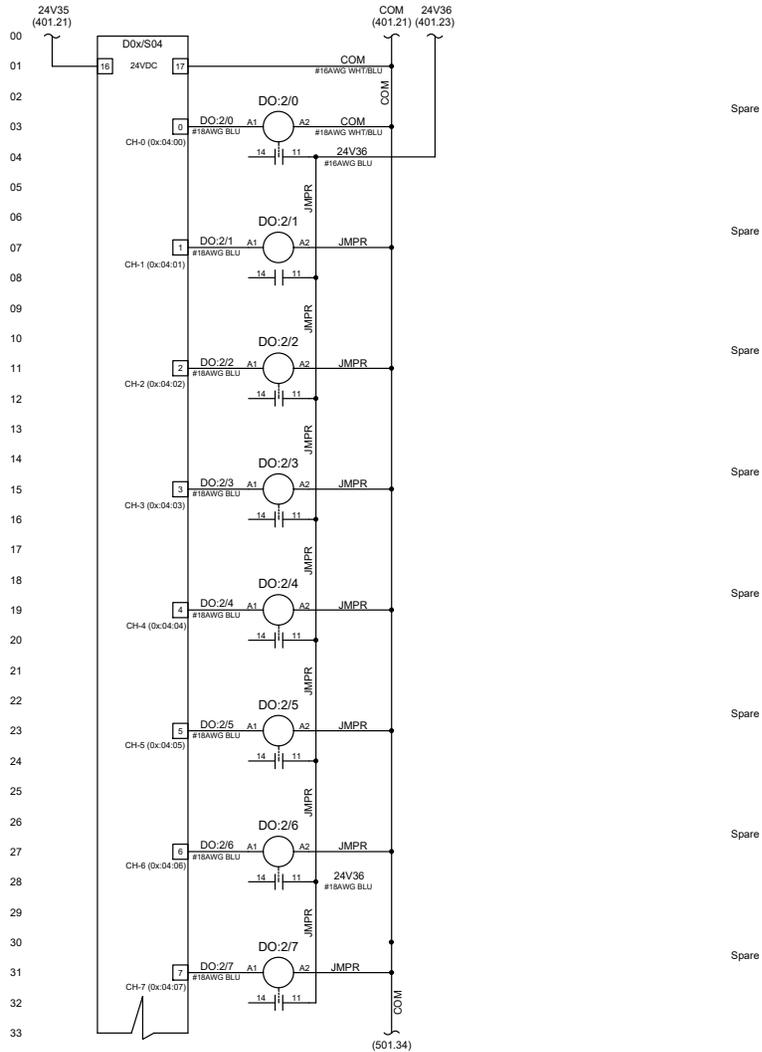
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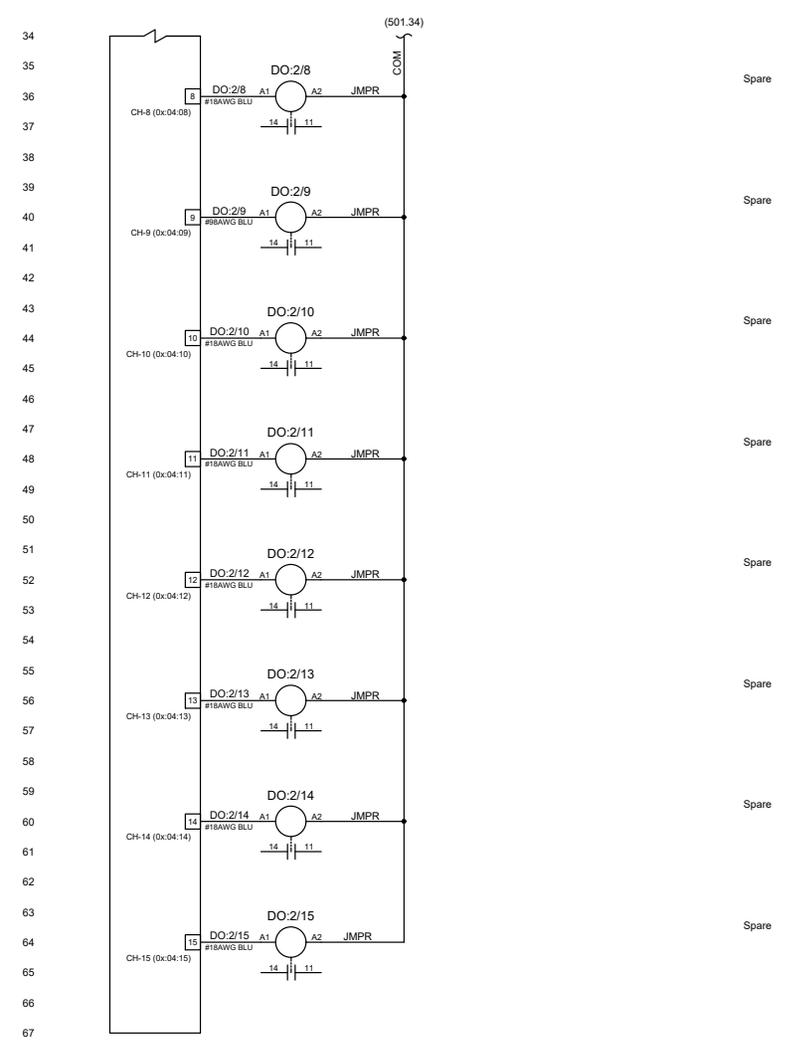
UL 35-19 CTB
Well Pad RIO Typical (1,2,3)
Drop 0x Slot 01
16-CH Digital Input Module Wiring

DESIGN BY:	REV:
LW	A
CREATED DATE:	SCALE:
08.04.2024	NTS
PROJECT NUMBER:	SECTION SHEET:
UL 35-19	01 500

DROP 0x Slot 02
16-CH DO 5069-OB16 + 5069-RTB18-SCREW



DROP 0x Slot 02
16-CH DO 5069-OB16 + 5069-RTB18-SCREW



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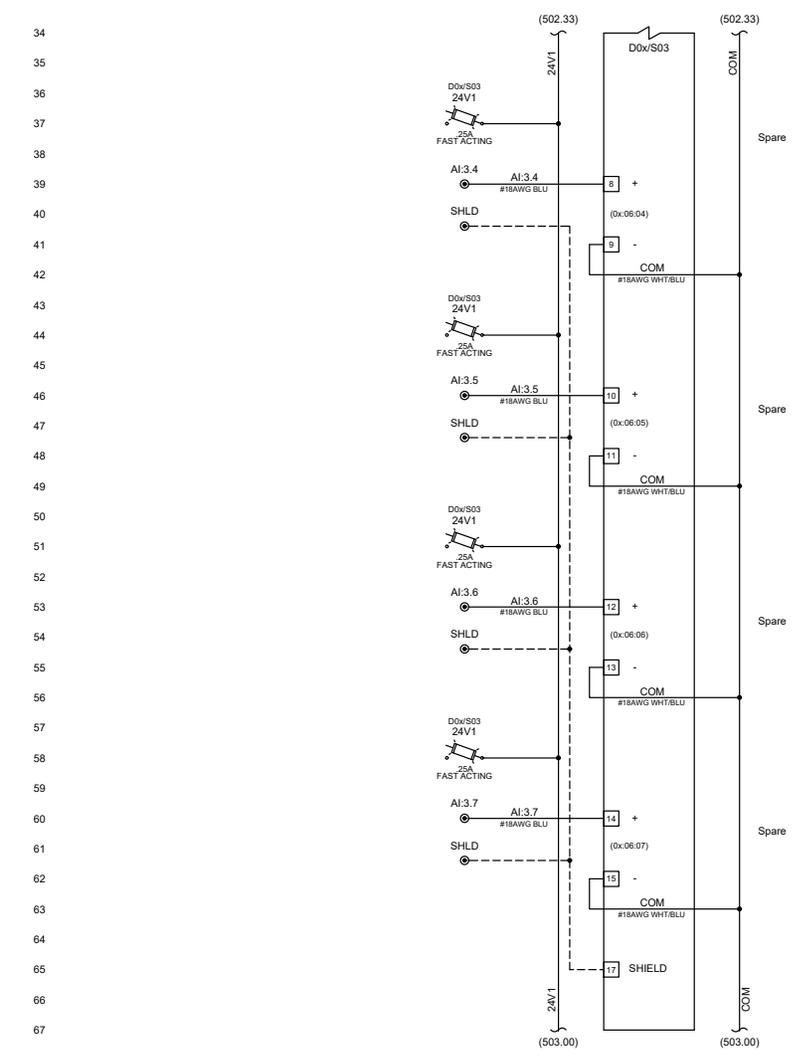
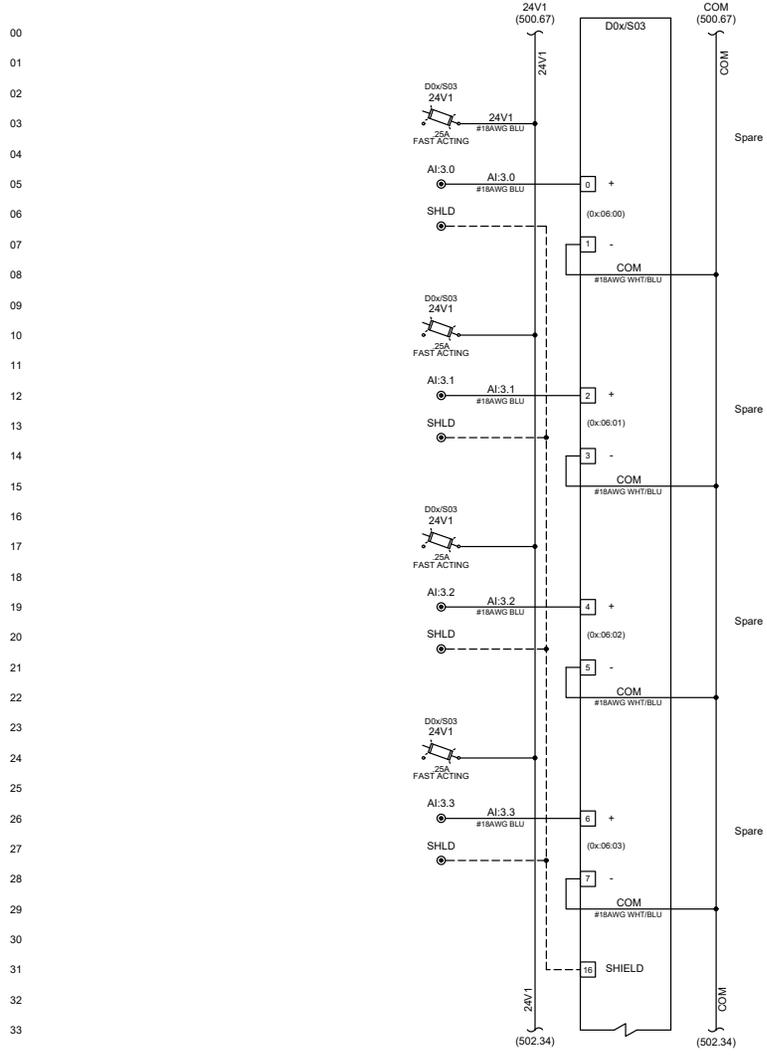
CIVITAS

UL 35-19 CTB
Well Pad RIO Typical (1,2,3)
Drop 0x Slot 02
16-CH Digital Output Module Wiring

DESIGN BY:	REV:
LW	A
CREATED DATE:	SCALE:
08.04.2024	NTS
PROJECT NUMBER:	SECTION SHEET:
UL 35-19	01 501

DROP 0x Slot 03
8-CH AI 5069-IF8 + 5069-RTB18-SCREW

DROP 0x Slot 03
8-CH AI 5069-IF8 + 5069-RTB18-SCREW



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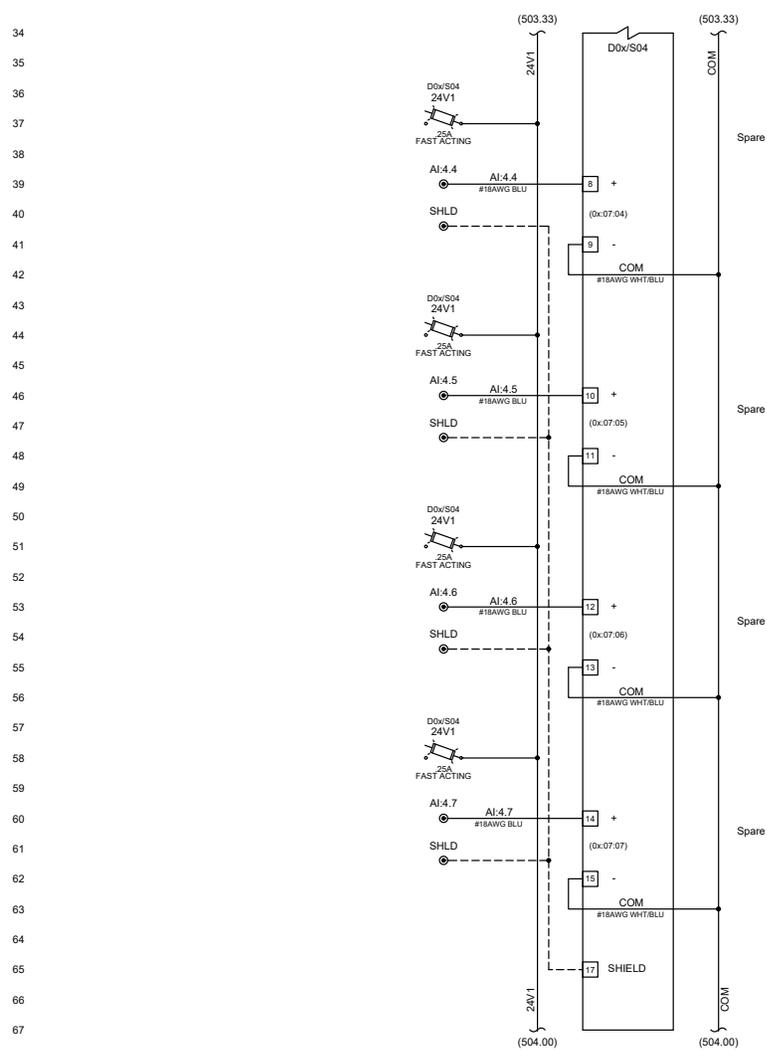
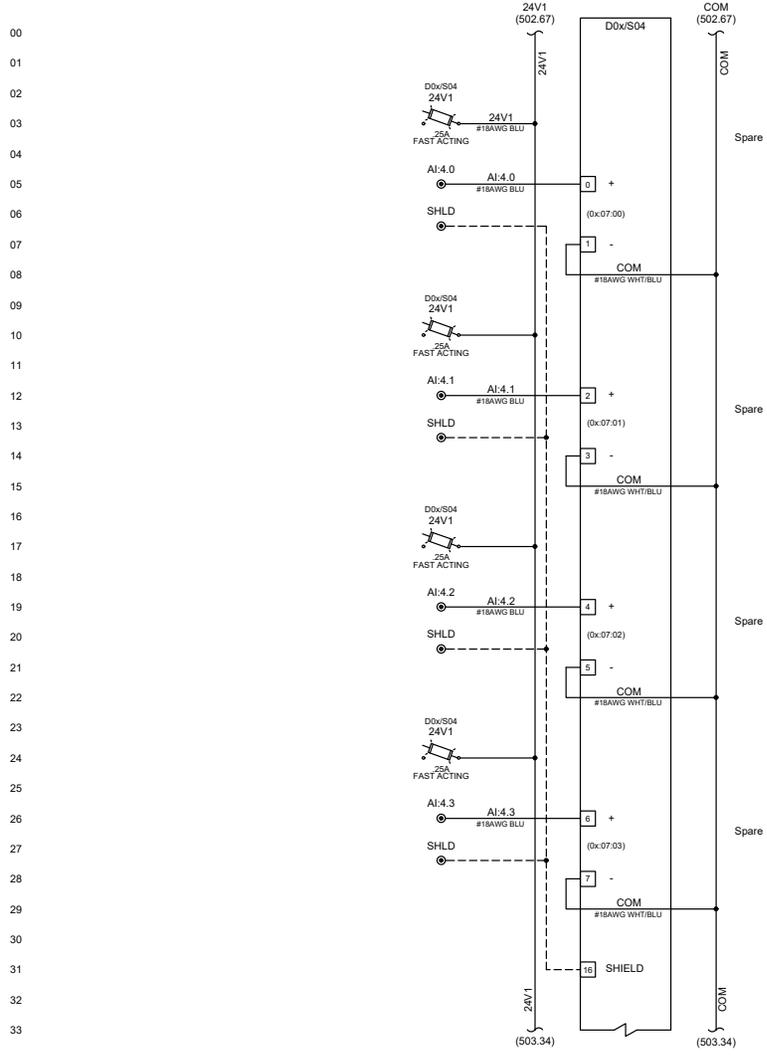
CIVITAS

UL 35-19 CTB
Well Pad RIO Typical (1,2,3)
Drop 00 Slot 03
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: 01 502

DROP 0x Slot 04
8-CH AI 5069-IF8 + 5069-RTB18-SCREW

DROP 0x Slot 04
8-CH AI 5069-IF8 + 5069-RTB18-SCREW



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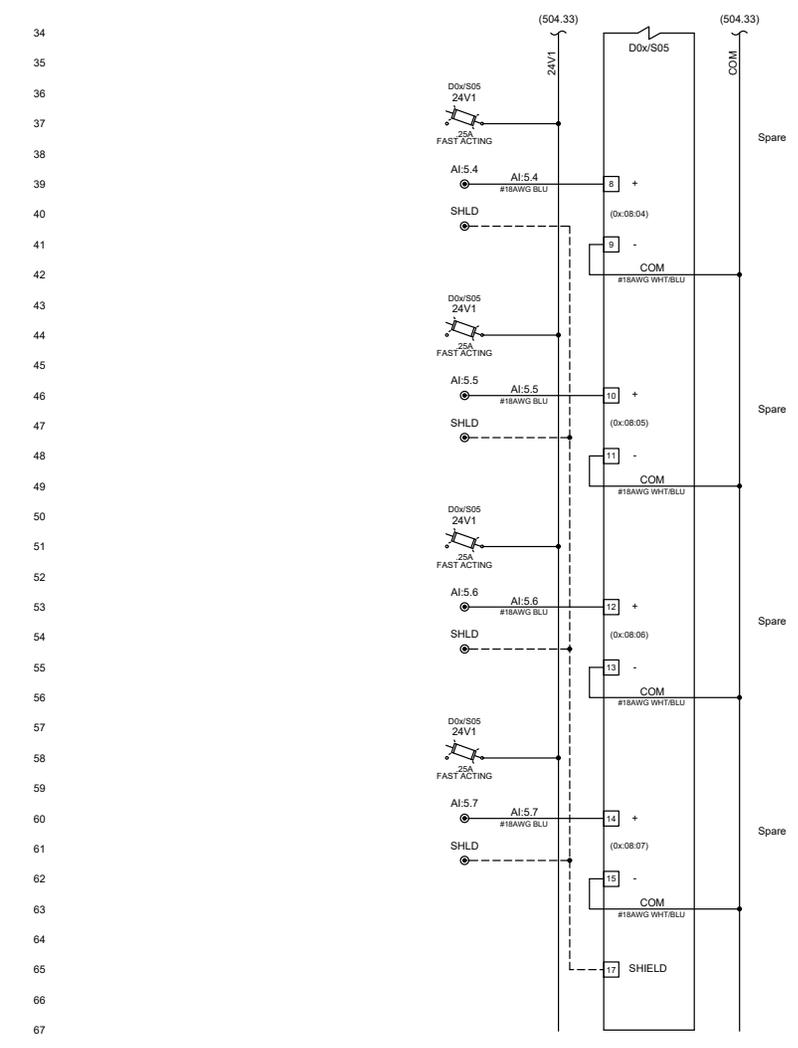
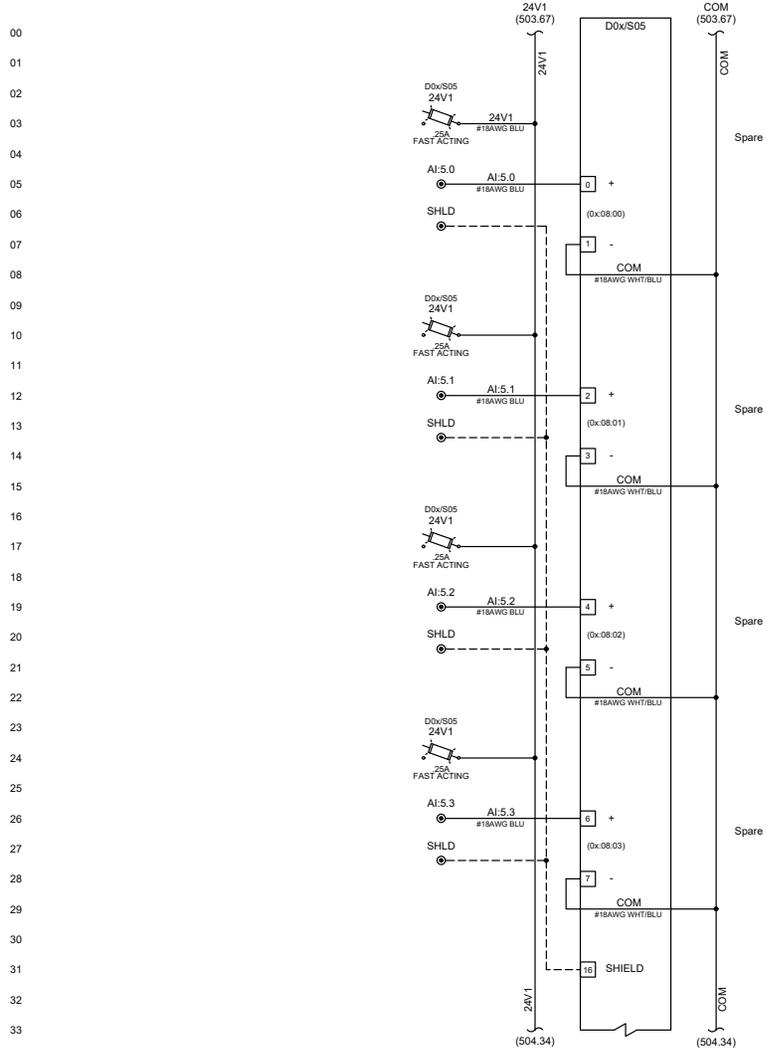
CIVITAS

UL 35-19 CTB
Well Pad RIO Typical (1,2,3)
Drop 00 Slot 04
8-CH Analog Input Module Wiring

DESIGN BY: LW	REV: A
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PROJECT NUMBER: UL 35-19	SECTION SHEET: 01 503

DROP 0x Slot 05
8-CH AI 5069-IF8 + 5069-RTB18-SCREW

DROP 0x Slot 05
8-CH AI 5069-IF8 + 5069-RTB18-SCREW



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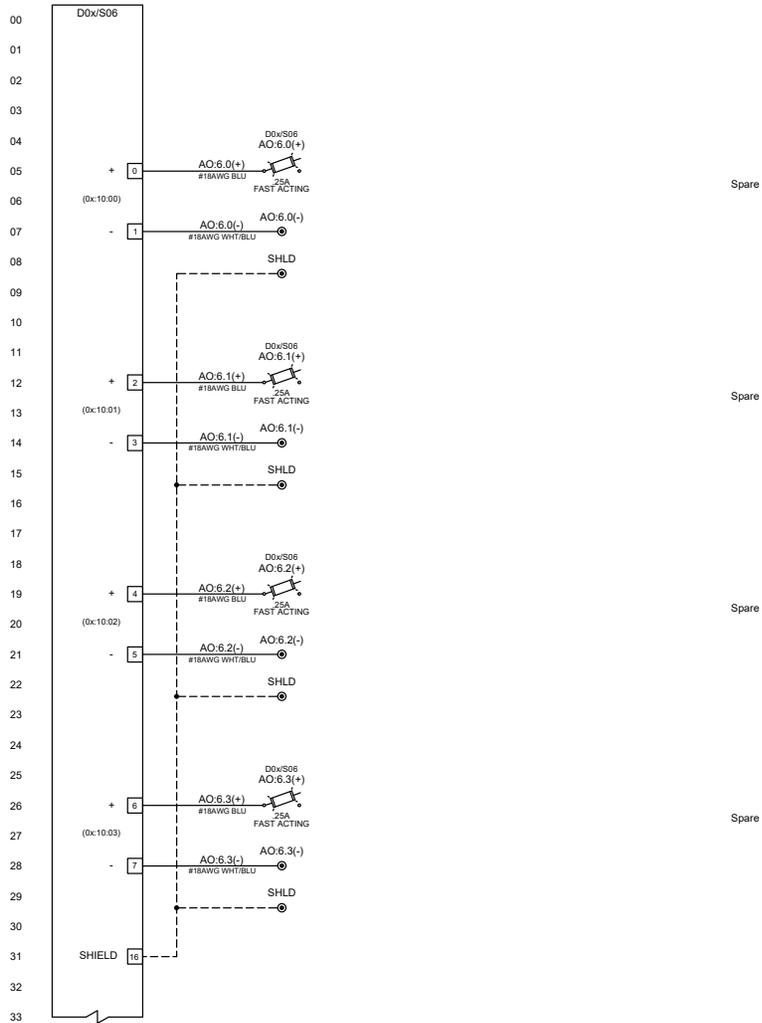
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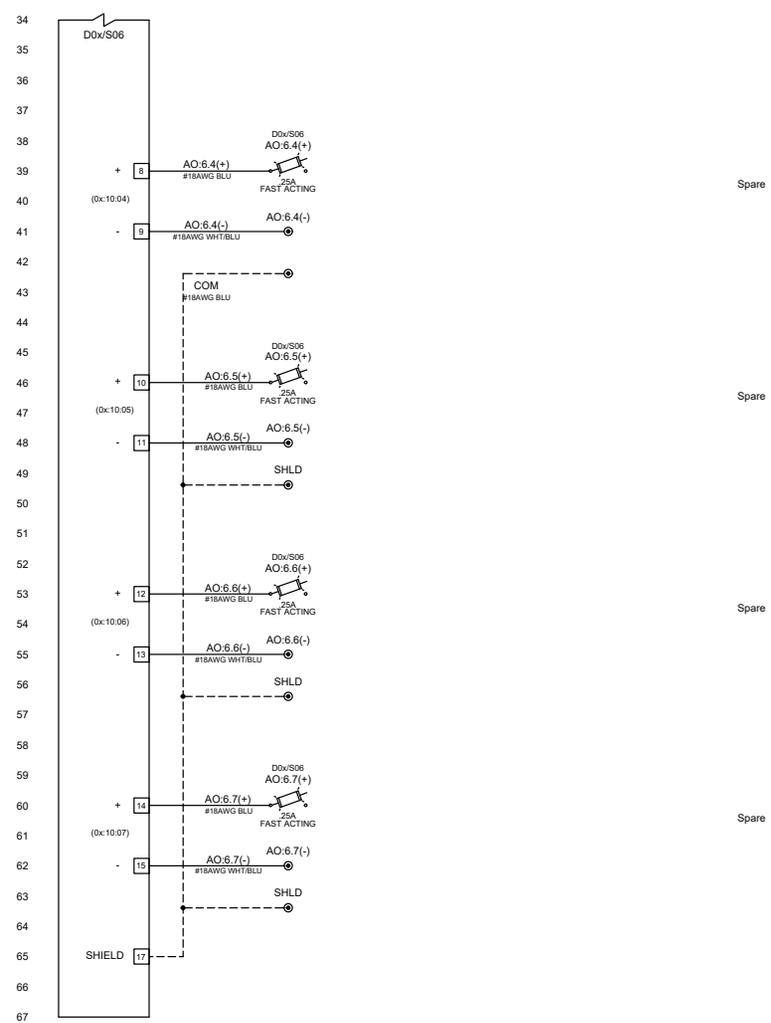
UL 35-19 CTB
Well Pad RIO Typical (1,2,3)
Drop 00 Slot 05
8-CH Analog Input Module Wiring

DESIGN BY: LW	REV: A
CREATED DATE: 08.04.2024	SCALE: NTS
PROJECT NUMBER: UL 35-19	SECTION SHEET: 01 504

DROP 0x Slot 06
8-CH AO 5069-0F8 + 5069-RTB18-SCREW



DROP 0x Slot 06
8-CH AO 5069-0F8 + 5069-RTB18-SCREW



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UL 35-19 CTB
Well Pad RIO Typical (1,2,3)
Drop 00 Slot 06
8-CH Analog Output Module Wiring

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PROJECT NUMBER:	SECTION SHEET:
UL 35-19	01 505