

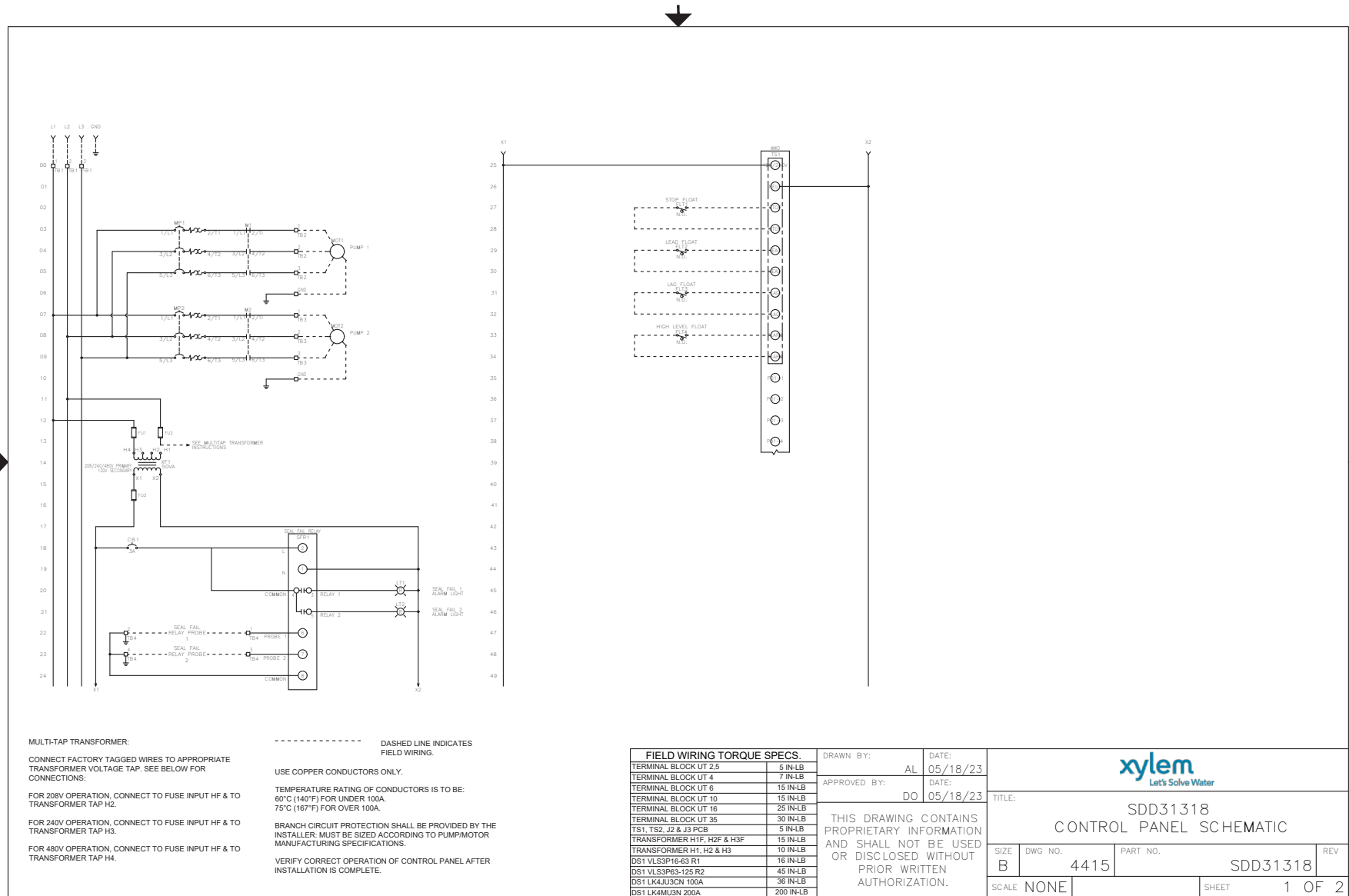
SD Duplex SDD31318

Control Panel Schematic and Layout

CONTROL PANEL SCHEMATIC

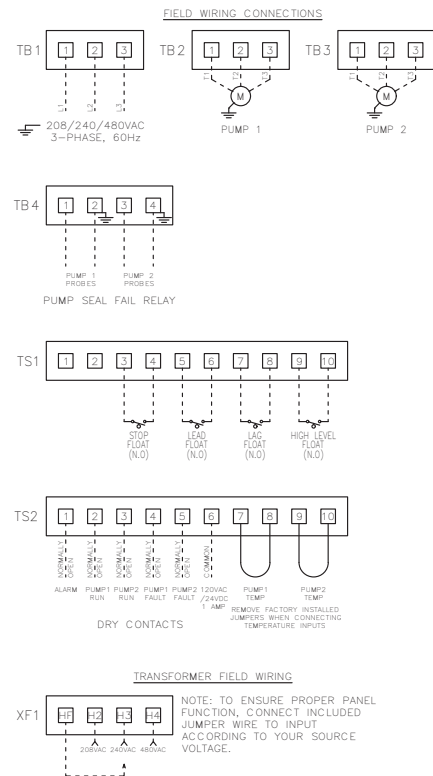
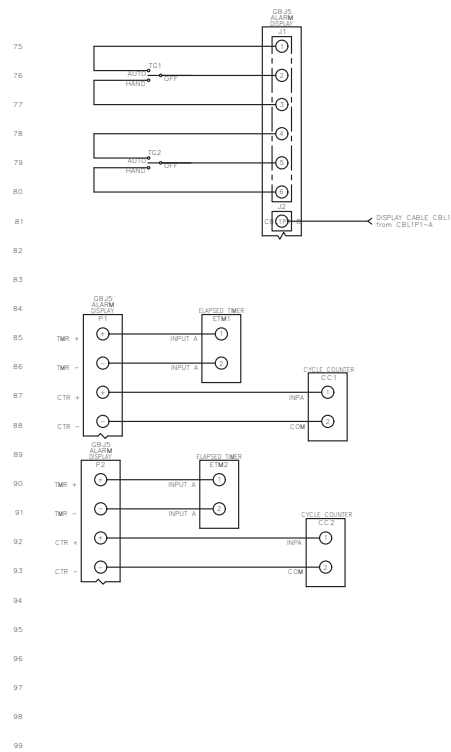
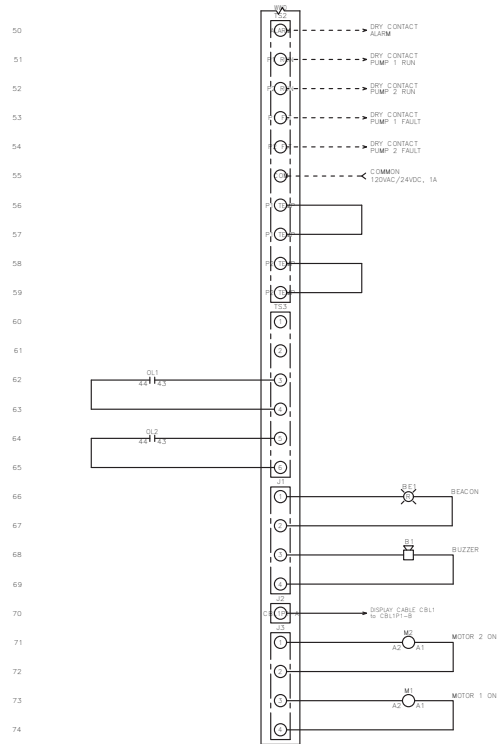
FILENAME: SDD31318

REVDATE: 0523



FRAME: SDD31318

REVDATE: 0523



MULTI-TAP TRANSFORMER:
CONNECT FACTORY TAGGED WIRES TO APPROPRIATE TRANSFORMER VOLTAGE TAP. SEE BELOW FOR CONNECTIONS:
FOR 208V OPERATION, CONNECT TO FUSE INPUT HF & TO TRANSFORMER TAP H2.
FOR 240V OPERATION, CONNECT TO FUSE INPUT HF & TO TRANSFORMER TAP H3.
FOR 480V OPERATION, CONNECT TO FUSE INPUT HF & TO TRANSFORMER TAP H4.

----- DASHED LINE INDICATES FIELD WIRING.
USE COPPER CONDUCTORS ONLY.
TEMPERATURE RATING OF CONDUCTORS IS TO BE: 60°C (140°F) FOR UNDER 100A, 75°C (167°F) FOR OVER 100A.
BRANCH CIRCUIT PROTECTION SHALL BE PROVIDED BY THE INSTALLER; MUST BE SIZED ACCORDING TO PUMP/MOTOR MANUFACTURING SPECIFICATIONS.
VERIFY CORRECT OPERATION OF CONTROL PANEL AFTER INSTALLATION IS COMPLETE.

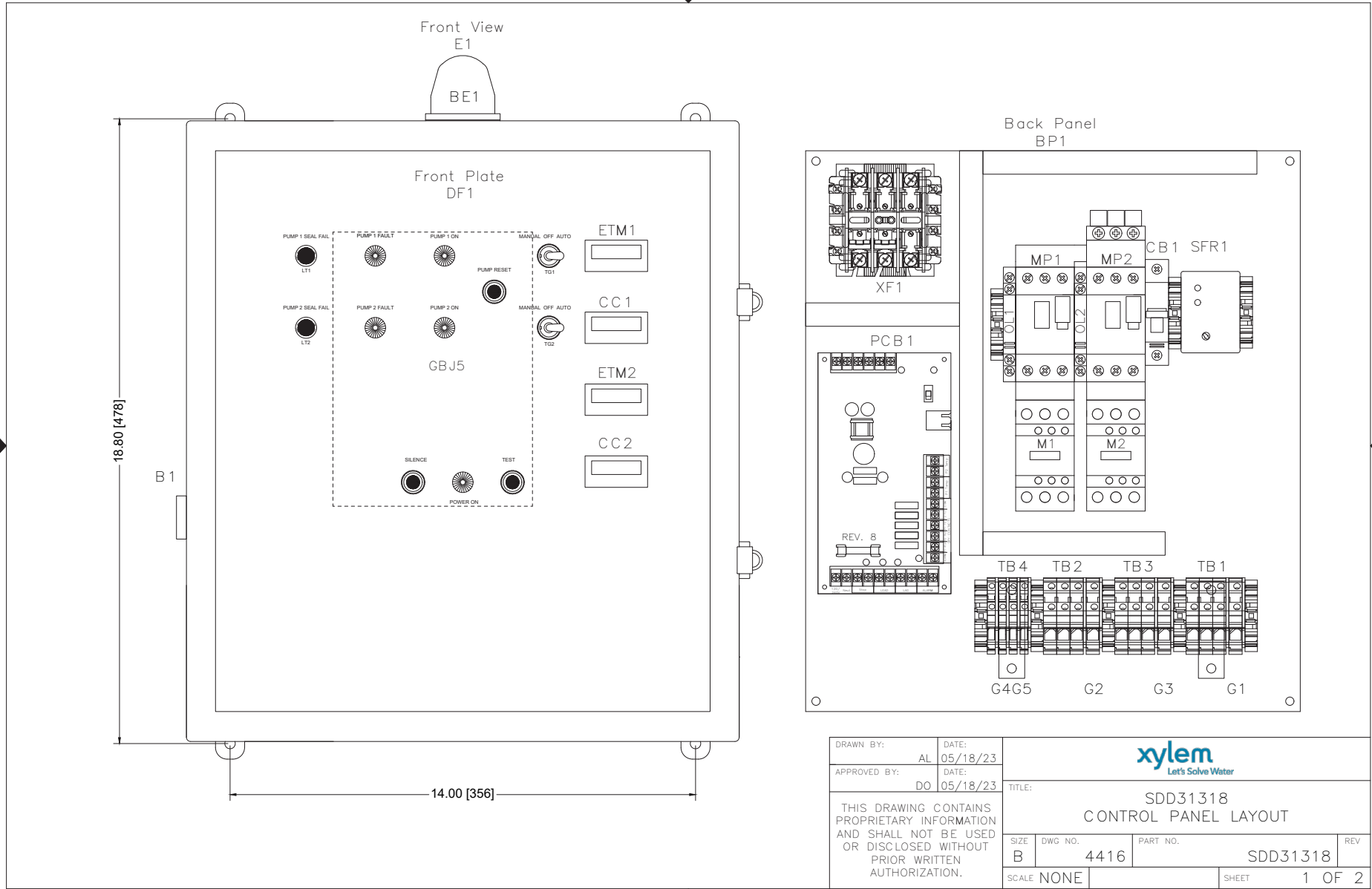
FIELD WIRING TORQUE SPECS.		DRAWN BY:		DATE:	
TERMINAL BLOCK UT 2.5	5 IN-LB	AL		05/18/23	
TERMINAL BLOCK UT 4	7 IN-LB	APPROVED BY:		DATE:	
TERMINAL BLOCK UT 6	15 IN-LB	DO		05/18/23	
TERMINAL BLOCK UT 10	15 IN-LB	THIS DRAWING CONTAINS PROPRIETARY INFORMATION AND SHALL NOT BE USED OR DISCLOSED WITHOUT PRIOR WRITTEN AUTHORIZATION.			
TERMINAL BLOCK UT 16	25 IN-LB				
TERMINAL BLOCK UT 35	30 IN-LB				
TS1, TS2, J2 & J3 PCB	5 IN-LB				
TRANSFORMER H1F, H2F & H3F	15 IN-LB				
TRANSFORMER H1, H2 & H3	10 IN-LB	TITLE:		SDD31318 CONTROL PANEL SCHEMATIC	
DS1 VLS3P16-63 R1	16 IN-LB	SIZE	DWG NO.	PART NO.	REV
DS1 VLS3P63-125 R2	45 IN-LB	B	4415	SDD31318	
DS1 LK4JU3CN 100A	36 IN-LB	SCALE NONE		SHEET 2 OF 2	
DS1 LK4MU3N 200A	200 IN-LB				

CONTROL PANEL LAYOUT

GWTSDD31318 R1

FNAME: SDD31318

REVDATE: 0523



DRAWN BY:	AL	DATE:	05/18/23		
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				SDD31318 CONTROL PANEL LAYOUT	
SIZE	DWG NO.	PART NO.	REV		
B	4416	SDD31318			
SCALE	NONE	SHEET	1 OF 2		

CONTROL PANEL LAYOUT



FNAME: SDD31318



REVDATE: 0523

QTY	MANUFACTURER	DESCRIPTION	PART NUMBER	REF.
1	Saginaw	P.C. Nema 4X Enclosure 18x16x10	H181610HCLL	E1
1	Integra	Hinge Kit	US0PK-P909	N/A
1	All-Spec	Dead Front	624P	DF1
1	All-Spec	Back Panel	625	BP1
1	Ingram	Beacon	R10-SM	BE1
1	Ingram	Buzzer	PB-024-AD	B1
2	VCC	Red Light 125V	1050QC1	LT1-2
1	See Water	Display Board	GBJ5	GBJ5
5	LEDTRONICS	White Lense	LENS-LCD780-CWF	N/A
2	See Water	Flat Cable Assembly	IDC-25MB	N/A
2	Molex	4 Pin Connector	09-50-3041	N/A
1	Molex	6 Pin Connector	09-50-3061	N/A
1	See Water	Power Circuit Board	WWD	PCB1
2	Carling	HOA Toggle Switch	6FC57-73	TG1,2
1	Schneider	Multitap Transformer 50VA	9070TF50D20	XF1
2	Mersen	ATQR 3/10A Fuse	ATQR-3/10A	XF1
1	Mersen	TRM 6/10A Fuse	TRM-6/10A	XF1
2	Schneider	Motor Protector	GV2ME20	MP1-2
2	Schneider	Side Mount Auxiliary	GVAN11	OL1-2
2	Schneider	Contactora	LC1D18JL	M1-2

QTY	MANUFACTURER	DESCRIPTION	PART NUMBER	REF.
2	Schneider	GV2 Combination Block	GV2AF3	N/A
1	Schneider	GV2 BusBar	GV2G254	N/A
1	Schneider	Top Feed Terminal Block	GV1G09	N/A
1	Schneider	Circuit Breaker 3A 1 Pole	M9F22103	CB1
1	Macromatics	Seal Fail Dual Channel Relay	SFP120C100	SFR1
1	Macromatics	8 Pin Socket	70169-D	SFR1
2	Trumeter	Elapsed Time Meter	6320-2500-0000	ETM1-2
2	Trumeter	Cycle Counter	6300-2500-0000	CC1-2
2	Phoenix Contact	Terminal Block UT-4	3044102	TB4
2	Phoenix Contact	Terminal Block UT-4-PE	3044128	G4-5
9	Phoenix Contact	Terminal Block UT-10	3044160	TB1
3	Phoenix Contact	Terminal Block UT-10-PE	3044173	G1
8	Phoenix Contact	End Stop	3022218	N/A
10	Phoenix Contact	End Cover UT-2.5-10	3047028	N/A
2	Altech	Angled Mounting Bracket	CA603	N/A
4	See Water	N.O. Narrow Angle Floats 50'	FPC0N50	N/A
1	UL	508A UL Label	N/A	N/A



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APPROVED BY:	DO	DATE:	05/18/23		
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				SDD31318	
				CONTROL PANEL LAYOUT	
				SIZE	DWG NO.
B	4416	SDD31318			
SCALE		NONE	SHEET		2 OF 2