

Plot Date: 16-JUN-2021 1:49:57 PM
User: svcpw
Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo_Std_Pen_v0905.pen PlotScale: 1:1
LAST SAVED BY: kmiller

INSTRUMENT TAG IDENTIFICATION LETTERS

MEASURED VARIABLE	INSTRUMENT FUNCTION																								
	ELEMENT	TRANSMITTER	INDICATING TRANSMITTER	CONVERTER TRANSducer, RELAY SPECIAL DEVICES	INDICATOR	RECORDER	CONTROLLER	INDICATING CONTROLLER	RECORDING CONTROLLER	SWITCH	SWITCH LOW LOW	SWITCH LOW	SWITCH HIGH	SWITCH HIGH HIGH	SWITCH COMBINATION HIGH LOW	ACTION	ALARM LOW LOW	ALARM LOW	ALARM HIGH	ALARM HIGH HIGH	TOTALIZE INDICATOR TRANSMITTER	VALVE	GAUGE	LIGHT	SPEED SETTING
A ANALYSIS	AE	AT	AIT	AY	AI	AR	AC	AIC	ARC	AS	ASLL	ASL	ASH	ASHH	ASHL		AALL	AAL	AAH	AAHH					AL
B BURNER FLAME	BE	BT	BIT	BY	BI	BR	BC	BIC	BRC	BS	BSLL	BSL	BSH	BSHH	BSHL		BALL	BAL	BAH	BAHH					BL
C CONDUCTIVITY	CE	CT	CIT	CY	CI	CR	CC	CIC	CRC	CS	CSLL	CSL	CSH	CSHH	CSHL		CALL	CAL	CAH	CAHH					CL
D DENSITY	DE	DT	DIT	DY	DI	DR	DC	DIC	DRC	DS	DSLL	DSL	DSH	DSHH	DSHL		DALL	DAL	DAH	DAHH					DL
E																									
F FLOW	FE	FT	FIT	FY	FI	FR	FC	FIC	FRC	FS	FSL	FSL	FSH	FSHH	FSL		FALL	FAL	FAH	FAHH	FQI	FCV	FG	FL	
FF FLOW RATIO				FFY	FFI		FFC	FFIC		FFS														FFL	
G GAUGING (DIMENSION)																									
H HAND (MANUAL)*							HC			HS*						HA*						HV	HL	HSS	
I CURRENT		IT	IIT	IY	II	IR	IC	IIC	IRC	IS	ISLL	ISL	ISH	ISHH			IALL	IAL	IAH	IAHH					IL
J POWER																									
K TIME				KY	KI	KR	KC	KIC	KRC	KS	KSL	KSL	KSH	KSHH			KALL	KAL	KAH	KAHH			KV	KL	
L LEVEL	LE	LT	LIT	LY	LI	LR	LC	LIC	LRC	LS	LSLL	LSL	LSH	LSHH	LSHL		LALL	LAL	LAH	LAHH			LCV	LG	LL
M MOISTURE OR HUMIDITY	ME	MT	MIT	MY	MI	MR	MC	MIC	MRC	MS	MSLL	MSL	MSH	MSHH			MALL	MAL	MAH	MAHH					ML
N EMERGENCY SHUTDOWN																									
O																									
P PRESSURE OR VACUUM	PE	PT	PIT	PY	PI***	PR	PC	PIC	PRC	PS****	PSLL	PSL	PSH	PSHH	PSHL		PALL	PAL	PAH	PAHH			PCV	PL	
PD DIFFERENTIAL PRESSURE		PDT	PDIT	PDY	PDI	PDR	PDC	PDIC	PDRC	PDS	PDSLL	PDSL	PDSH	PDSHH			PDALL	PDAL	PDAH	PDAHH			PDCV	PDL	
Q QUANTITY	QE	QT	QIT	QY	QI	QR				QS	QSLL	QSL	QSH	QSHH			QALL	QAL	QAH	QAAH					
R RADIOACTIVITY																									
S SPEED	SE	ST	SIT	SY	SI	SR	SC	SIC	SRC	SS	SSLL	SSL	SSH	SSHH			SALL	SAL	SAH	SAHH					
T TEMPERATURE	TE	TT	TIT	TY	TI	TR	TC	TIC	TRC	TS	TSLL	TSL	TSH	TSHH	TSHL		TALL	TAL	TAH	TAHH			TCV	TL	
TD DIFFERENTIAL TEMPERATURE		TDT	TDIT	TDY	TDI	TDR	TDC	TDIC	TDRC	TDS	TDSLL	TDSL	TDSH	TDSHH			TDALL	TDAL	TDAH	TDAHH			TDCV	TDL	
U MULTIVARIABLE				UI	UR	UC	UIC	URC	US															UL	
V VISCOSITY	VE	VT	VIT	VY	VI	VR	VC	VIC	VRC	VS	VSLL	VSL	VSH	VSHH			VALL	VAL	VAH	VAHH					VL
W WEIGHT	WE	WT	WIT	WY	WI	WR				WS	WSLL	WSL	WSH	WSHH			WALL	WAL	WAH	WAHH					
X UNCLASSIFIED	XE	XT	XIT	XY	XI	XR	XC	XIC	XRC	XS	XSLL	XSL	XSH	XSHH			XALL	XAL	XAH	XAAH			XCV	XG	XL
XV VIBRATION	XVE	XVT		XVY	XVI	XVR				XVS			XVSH	XVSHH					XVAH	XVAHH					XVL
Y STATUS***					YI***																			YL	
Z POSITION	ZE	ZT	ZIT	ZY	ZI					ZS**														ZL**	

* REFER TO OPERATOR PILOT DEVICE LEGEND
** LETTER INDICATES POSITION (O=OPEN, C=CLOSED, R=RAISE, L=LOWER, ETC)
*** PI# # = 1,2,3 ETC. AND REPRESENTS A UNIQUE IDENTIFIER AND IS APPLICABLE TO ALL ITEMS IN THE TABLE ABOVE
**** COULD ALSO BE PIS - FOR PRESSURE INDICATING SWITCH

OPERATOR PILOT DEVICE LEGEND

PILOT DEVICE FUNCTION	PILOT DEVICE FUNCTION																									
	LOCAL-OFF-REMOTE (LOR) OR LOCAL-STOP-REMOTE (LSR)	STOP (SP)	START (ST)	HAND-OFF-AUTO (HOA)	OFF-ON (OO)	SELECT (SEL)	OPEN-STOP-CLOSE (OSC)	JOG OPEN-HOLD-CLOSE (JOHC)	SEMI-AUTO-MANUAL (SAAM)	LEAD-LAG-STANDBY (LGS)	JOG OPEN-JOG CLOSE (JOJC)	ONLINE-OFFLINE (OLOF)	AUTO-MANUAL (AM)	FIXED RATE-LEVEL-RATE (FRLR)	OPEN-CLOSE (OC)	NO OFFLINE-OFFLINE TRANSITION (NOOT)	LOW-HIGH (LH)	RESET (RST)	SPEED (SPD)	START-STOP (STSP)	E-STOP (E-SP)	BYPASS (BYP)	SILENCE	POSITION (POS)		
PILOT DEVICE TAG (HAND SWITCHES)	HSA*	HSB	HSC	HSD*	HSE	HSF	HSG*	HSH*	HSI	HSJ*	HSK*	HSL*	HSM*	HSN	HSP	HSQ*	HSR	HSS	HST*	HSU	HSV	HSW	HSX	HSY	HSZ	
SCADA/HMI TAG (HAND ACTION)	HAA	HAB	HAC	HAD	HAE	HAF	HAG	HAH	HAI	HAJ	HAK	HAL	HAM	HAN	HAO	HAP	HAQ	HAR	HAS	HAT	HAU	HAV	HAW	HAX	HAY	HAZ

HSA* SELECTOR SWITCH POSITION EG: HSA(R) R = REMOTE, HSD(A) A = AUTO, ETC

I/O TYPE DESIGNATIONS

AUX1	RUNNING	MSL	MOTOR START LOW
AUX2	FAILED/FAULT	MSM	VALVE MODULATE
AUXF1	RUNNING FORWARD	MSP	MOTOR STOP
AUXH1	RUNNING HIGH	MSR	MOTOR START REVERSE
AUXL1	RUNNING LOW	MST	MOTOR START
AUXR1	RUNNING REVERSE	SS	SPEED SIGNAL
SVC	SOLENOID VALVE CLOSE	ZC	POSITION COMMAND
SVO	SOLENOID VALVE OPEN	ZCC	POSITION COMMAND CLOSE
MS	RUN	ZCO	POSITION COMMAND OPEN
MSF	MOTOR START FORWARD		
MSH	MOTOR START HIGH		

INSTRUMENT TYPE DESIGNATIONS

AM	AMMONIA	O3	OZONE	SH	SODIUM HYPOCHLORITE
CAP	CAPACITANCE	ORP	OXIDATION REDUCTION POTENTIAL	TDR	TIME DOMAIN REFLECTOMETRY
CGD	COMBUSTIBLE GAS DETECTOR	P	PRESSURE	TH	THERMAL
CL	CHLORINE	P-SUB	PRESSURE SUBMERSIBLE	TSS	TOTAL SUSPENDED SOLIDS
COND	CONDUCTIVITY	PC	PARTICLE COUNTER	TURB	TURBIDITY
DO	DISSOLVED OXYGEN	PO	PHOSPHOROUS	US	ULTRASONIC
FMCW	FREQ. MODULATED CONT. WAVE	PTOF	PULSE TIME OF FLIGHT	UVI	UV INTENSITY
HSF	FLUORIDE	R/I	RESISTANCE TO CURRENT	UVT	UV TRANSMITTANCE
IS	INTRINSIC SAFETY BARRIER	ROT	ROTAMETER	VAC	VACUUM
LEL	LOWER EXPLOSIVE LIMIT	RTD	RESISTANCE TEMP DETECTOR		
MAG	MAGNETIC	SC	STREAMING CURRENT		

SPECIFIC ABBREVIATIONS

APH	A PHASE	MWH	MOTOR WINDING HEATER
BPH	B PHASE	SSG	SECONDARY SWITCHGEAR
BRB	BEARING BOTTOM	SV*	SOLENOID VALVE
BRT	BEARING TOP	SPD	SURGE PROTECTIVE DEVICE
BTFLY	BUTTERFLY	UPS	UNINTERRUPTIBLE POWER SUPPLY
CPH	C PHASE	YA	STATUS AUTO
CC*	CALIBRATION COLUMN	YR	STATUS REMOTE
HTR	HEATER	Y1	STATUS RUNNING
HTU	HEAT TRACE UNIT	Y2	ALARM FAILED/FAULT

* CC# AND SV# # = 1, 2, 3 ETC. AND REPRESENTS A UNIQUE IDENTIFIER

INSTRUMENT LINE SYMBOLS

INSTRUMENT OR CONNECTION TO PROCESS	—————
PNEUMATIC SIGNAL	— # — # — # — # — # — # — # —
ELECTRIC SIGNAL	-----
HYDRAULIC SIGNAL	— L — L — L — L — L —
CAPILLARY TUBE	— X — X — X — X — X —
ELECTROMAGNETIC OR SONIC SIGNAL (GUIDED)	— ~ — ~ — ~ — ~ — ~ —
ELECTROMAGNETIC OR SONIC SIGNAL (NOT GUIDED)	— ~ — ~ — ~ — ~ — ~ —
INTERNAL SYSTEM LINK (SOFTWARE OR DATA LINK)	— o — o — o — o — o — o —
COPPER ETHERNET	— C — C — C — C — C —
FIBER OPTIC ETHERNET	— F — F — F — F — F —
WIRELESS ETHERNET	— W — W — W — W — W —
PROFIBUS DP	— PBD — PBD — PBD — PBD — PBD —
PROFIBUS PA	— PBA — PBA — PBA — PBA — PBA —
DEVICENET	— DN — DN — DN — DN — DN —
FOUNDATION FIELDBUS	— FF — FF — FF — FF — FF —

PROCESS LINE SYMBOLS

PRIMARY PROCESS FLOW IN PIPE	—————
SECONDARY PROCESS FLOW IN PIPE	—————
PRIMARY PROCESS FLOW IN CHANNEL	— · · · — · · · — · · · —
SECONDARY PROCESS FLOW IN CHANNEL	— · · · — · · · — · · · —

DESIGNATIONS

EQUIPMENT ENCLOSURE	-----
EXISTING	—————
FUTURE	-----

MISCELLANEOUS P&ID SYMBOLS

CONTINUATION TAG	
PIPE CALLOUT	
SIGNAL CONTINUATION	

REV	DATE	BY	DESCRIPTION
1			
2			
3			

DESIGNED RD
DRAWN KMM
CHECKED RD
DATE JUNE 2021

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SARASOTA COUNTY
SCADA STANDARDS
INSTRUMENTATION
DEVELOPER LS
SYMBOLS AND ABBREVIATIONS - II

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1" 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

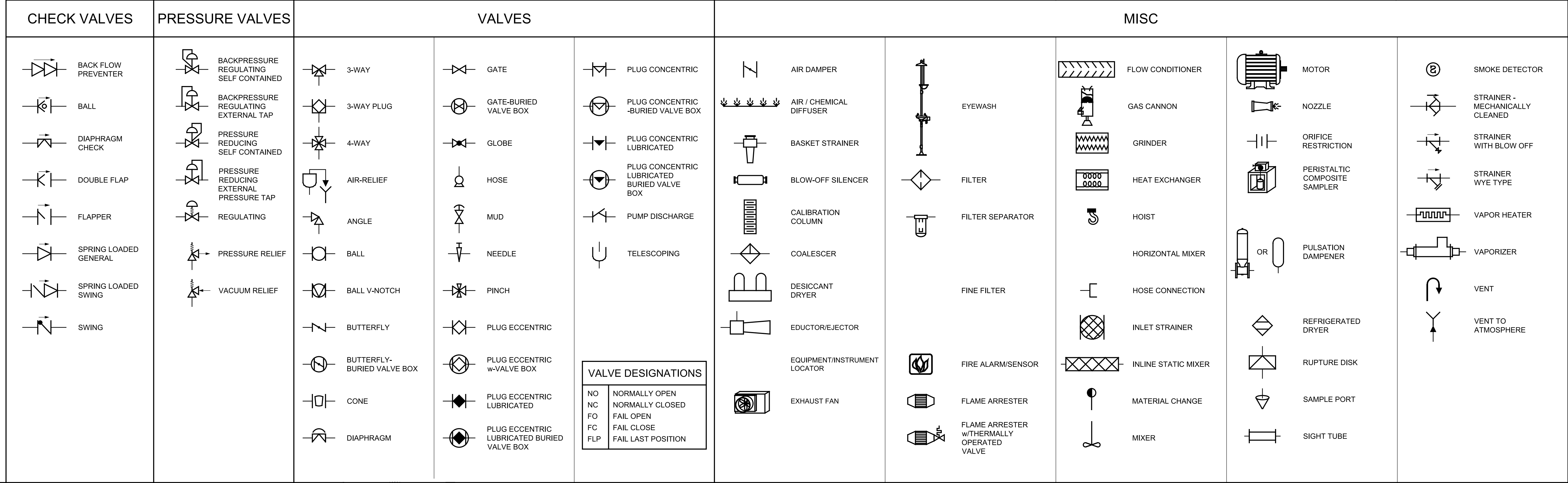
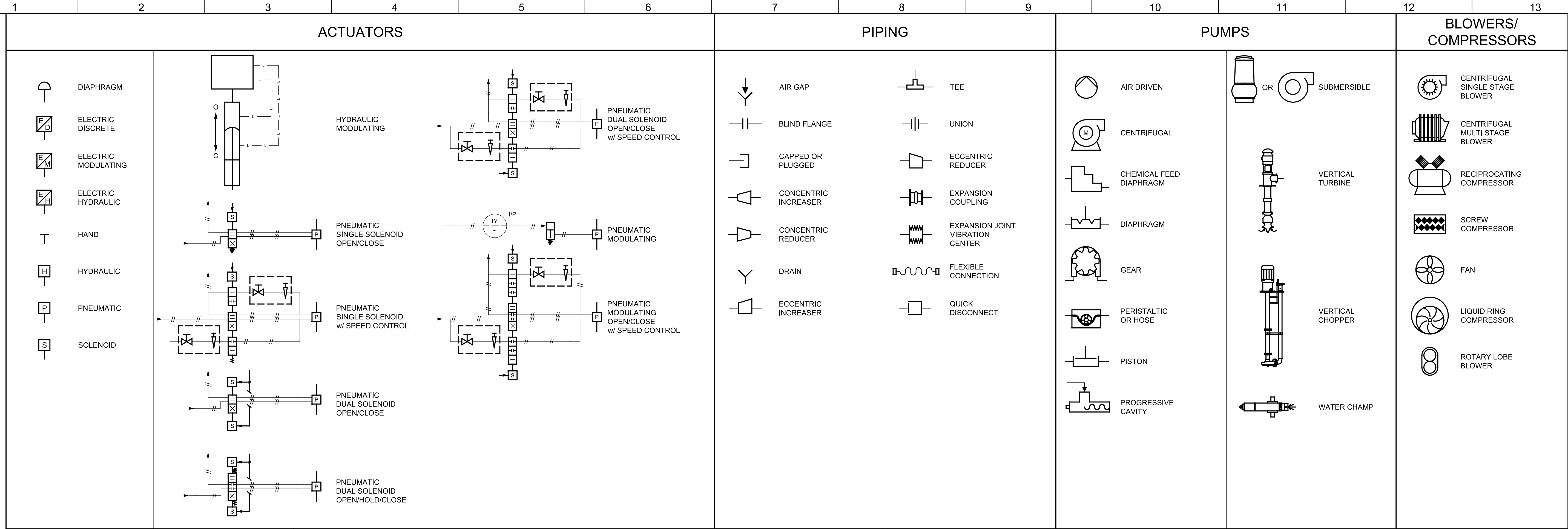
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DRAWING NO. 18GN02
SHEET NO. 5 OF 16

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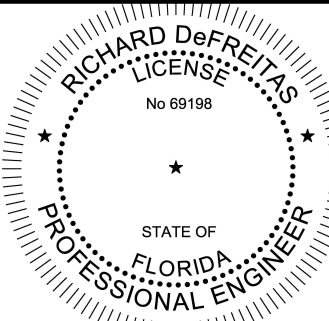
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VALVE DESIGNATIONS	
NO	NORMALLY OPEN
NC	NORMALLY CLOSED
FO	FAIL OPEN
FC	FAIL CLOSE
FLP	FAIL LAST POSITION



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SARASOTA COUNTY
SCADA STANDARDS
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SYMBOLS AND ABBREVIATIONS - III

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JOB NO. 11572A10
DRAWING NO. 18GN03
SHEET NO. 6 OF 16

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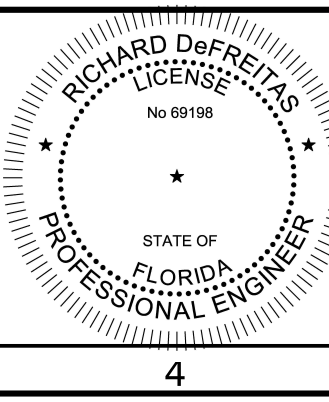
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1		2		3		4		5		6		7		8		9		10		11		12		13										
FLOW													FLUMES				GATES				LEVEL													
																					SIDE VIEW 		PLAN VIEW 											
PRESSURE/VACUUM													TEMPERATURE				WEIRS																	
PRESSURE				DIFFERENTIAL PRESSURE				PRESSURE SEALS								SIDE VIEW					PLAN VIEW													
								EXAMPLE				WEIGHT																						

REV	DATE	BY	DESCRIPTION

DESIGNED RD
DRAWN KMM
CHECKED RD
DATE JUNE 2021



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SARASOTA COUNTY
 SCADA STANDARDS
 INSTRUMENTATION
 DEVELOPER LS
 SYMBOLS AND ABBREVIATIONS - IV

VERIFY SCALES
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JOB NO. 11572A10
 DRAWING NO. 18GN04
 SHEET NO. 7 OF 16

Plot Date: 16-JUN-2021 1:49:57 PM
 User: svcPW
 Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo_Sld_Pen_v0905.pen PlotScale: 1:1
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1	2	3	4	5	6	7	8	9	10	11	12	13					
<div style="display: flex; justify-content: space-between;"> PROCESS SWITCHES HAND SWITCHES RELAYS TERMINAL BLOCKS I/O MISC </div>																	
<p> FLOAT SWITCH CLOSE ON RISING LEVEL</p> <p> FLOAT SWITCH OPEN ON RISING LEVEL</p> <p> PRESSURE SWITCH CLOSE ON RISING PRESSURE</p> <p> PRESSURE SWITCH OPEN ON RISING PRESSURE</p> <p> TEMPERATURE SWITCH CLOSE ON RISING TEMPERATURE</p> <p> TEMPERATURE SWITCH OPEN ON RISING TEMPERATURE</p> <p> FLOW SWITCH CLOSE ON INCREASE IN FLOW</p> <p> FLOW SWITCH OPEN ON INCREASE IN FLOW</p> <p> VIBRATION SWITCH OPEN ON RISING VIBRATION</p> <p> VIBRATION SWITCH CLOSE ON RISING VIBRATION</p> <p> TORQUE SWITCH OPEN ON HIGH TORQUE</p> <p> TORQUE SWITCH CLOSE ON HIGH TORQUE</p> <p> NORMALLY CLOSED LIMIT SWITCH</p> <p> NORMALLY CLOSED HELD OPEN LIMIT SWITCH</p> <p> NORMALLY OPEN LIMIT SWITCH</p> <p> NORMALLY OPEN HELD CLOSED LIMIT SWITCH</p>			<p> NORMALLY OPEN MOMENTARY PUSHBUTTON</p> <p> NORMALLY CLOSED MOMENTARY PUSHBUTTON</p> <p> THREE POSITION SELECTOR SWITCH x - DENOTES POSITION CONTACTS CLOSED IN</p> <p> TWO POSITION SELECTOR SWITCH x - DENOTES POSITION CONTACTS CLOSED IN</p> <p> MUSHROOM HEAD PUSHBUTTON</p> <p> PUSH-PULL PUSHBUTTON MAINTAINED CONTACT</p> <p> PADLOCK SWITCH x - DENOTES POSITION CONTACTS CLOSED IN</p> <p> PULL CORD SWITCH</p> <p> STOP-LOCKOUT PUSHBUTTON</p> <p> SPRING-RETURN x - DENOTES POSITION CONTACTS CLOSED IN</p>			<p> RELAY COIL a = TYPE CR - CONTROL RELAY TD - TIME DELAY RELAY M - MOTOR STARTER COIL L - MOTOR STARTER COIL - LOW SPEED H - MOTOR STARTER COIL - HIGH SPEED F - MOTOR STARTER COIL - FORWARD R - MOTOR STARTER COIL - REVERSE</p> <p>b = TDON - TIME DELAY ON ENERGIZATION TDOFF - TIME DELAY ON DEENERGIZATION</p> <p>c = TIMING RANGE/SETTING d = DESCRIPTION</p> <p> NORMALLY OPEN CONTROL CONTACT</p> <p> NORMALLY CLOSED CONTROL CONTACT</p> <p> TIME DELAY CONTACT NORMALLY OPEN TIMED CLOSING</p> <p> TIME DELAY CONTACT NORMALLY CLOSED TIMED OPENING</p> <p> TIME DELAY CONTACT NORMALLY OPEN TIMED OPENING</p> <p> TIME DELAY CONTACT NORMALLY CLOSED TIMED CLOSING</p>			<p> TERMINAL IN PLC/PCM PANEL</p> <p> TERMINAL IN MOTOR CONTROL CENTER</p> <p> TERMINAL IN LOCAL STARTER CONTROL PANEL</p> <p> TERMINAL AT FIELD DEVICE</p> <p> TERMINAL IN RTU</p> <p> TERMINAL IN FIELD PANEL</p> <p> TERMINAL IN (USER CHOICE)</p> <p> DIGITAL BUS CONNECTOR * = D - DEVICENET * = PA - PROFIBUS PA * = DP - PROFIBUS DP * = H1 - FOUNDATION FIELDBUS H1 * = H2 - FOUNDATION FIELDBUS H2 * = E - ETHERNET</p>			<p> PLC DISCRETE a = INPUT OR OUTPUT AS INDICATED</p> <p> PLC ANALOG a = INPUT OR OUTPUT AS INDICATED</p> <p> DIGITAL BUS</p>			<p> SOLENOID</p> <p> METER UNIT M = TYPE</p> <p> MOTOR</p> <p> CIRCUIT BREAKER</p> <p> DISCONNECT</p> <p> FUSE</p> <p> TRANSIENT SURGE PROTECTION</p> <p> MOTOR WINDING HEATER * - MOTOR TAG I.D.</p> <p> SPACE HEATER</p> <p> VARISTOR</p> <p> CAPACITOR</p> <p> RESISTOR</p> <p> BATTERY</p> <p> DIODE</p> <p> MOTOR OVERLOAD HEATERS</p> <p> OVERLOAD CONTACT</p> <p> DRAWOUT CONNECTION</p> <p> GROUND</p> <p> LIGHTNING ARRESTOR</p> <p> CONTROL POWER TRANSFORMER</p> <p> ELAPSED TIME METER</p>		
			INDICATORS														
			<p> PILOT LIGHT a = LENS COLOR R = RED G = GREEN W = WHITE A = AMBER B = BLUE Y = YELLOW C = CLEAR</p> <p> BEACON a = LENS COLOR R = RED G = GREEN W = WHITE A = AMBER B = BLUE M = MAGENTA C = CLEAR</p> <p> HORN</p>														

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DESIGNED	RD																														
DRAWN	KMM																														
CHECKED	RD																														
DATE	JUNE 2021																														
<p>PROJECT NO. 11572A10 FILE NAME: 11572A1018GN05.dgn</p>																															

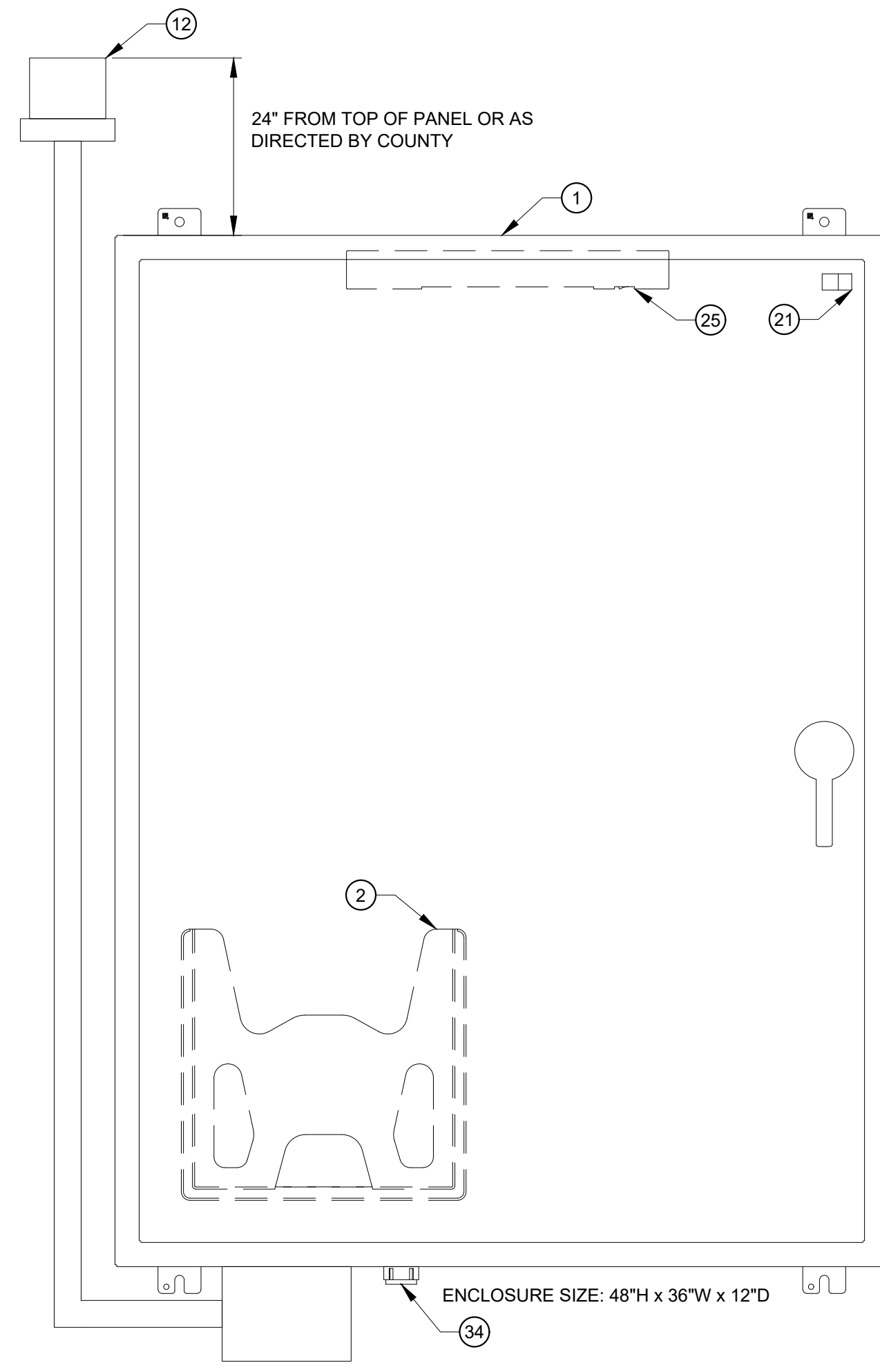
GENERAL NOTES:
 1. CONTRACTOR SHALL ENSURE CONTROL PANEL IS SUPPLIED AND INSTALLED IN ACCORDANCE WITH SARASOTA COUNTY SPECIFICATIONS, INCLUDING BUT NOT LIMITED TO SECTION 16050, 16075, 17050, 17722 AND 17950.

KEY NOTES:
 1. CENTER OVER OVERLOAD RESETS.

NAMEPLATE SCHEDULE	
NP 1	CCB
NP 2	GFI
NP 3	PUMP NO.1
NP 4	PUMP NO.2
NP 5	MAIN
NP 6	PUMP NO.1 RUN
NP 7	PUMP NO.2 RUN
NP 8	ALARM SILENCE
NP 9	MISSION RTU

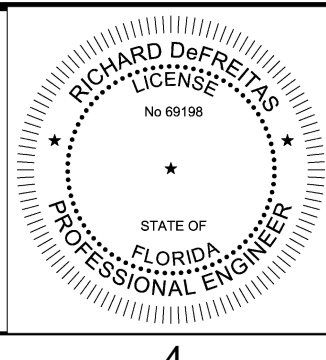
MAJOR EQUIPMENT SCHEDULE		
ITEM	QTY	DESCRIPTION
1	1	NEMA 4X 316 STAINLESS STEEL ENCLOSURE 48" X 36" W NVENT HOFFMAN MODEL A48H3612SS6LP3PT, CONTROL CABINET - 48" HIGH, 36" WIDE, AND 12" DEEP (EXCLUDING DOOR DEPTH). CABINET SHALL BE CONSTRUCTED EXCLUSIVELY OF 316 STAINLESS STEEL, 14 GAUGE (MINIMUM) WITH CONTINUOUS WELDS THROUGHOUT. WEEP HOLES OR OTHER OPENINGS IN ENCLOSURE WHICH ARE NOT SPECIFIED IN THESE DRAWINGS SHALL NOT BE ACCEPTABLE. PANEL SHALL HAVE AN OUTER DOOR GASKET SEAL WHICH SHALL BE CLOSE-CELL NEOPRENE OR OTHER MATERIAL AS APPROVED BY COUNTY. DOOR GASKET SHALL PROVIDE A CONTINUOUS SEAL AGAINST EXTERIOR DOOR SEALING FACE WHICH SHALL BE FULL HEIGHT WITH 304 STAINLESS STEEL CONTINUOUS PIANO HINGE, DOOR LOCK OPEN STAINLESS STEEL ROD, AND SHALL MINIMALLY HAVE 120 SWING. PANEL SHALL HAVE PROVISIONS FOR MOUNTING BACKPANEL AND DEADFRONT INSIDE AS A SINGLE UNITIZED ASSEMBLY. A LAMINATED WIRING DIAGRAM OF ALL WIRING CONNECTIONS SHALL BE PROVIDED IN A PERMANENT SLEEVE ATTACHED TO PANEL DOOR. PANEL SHALL BE INSTALLED PERPENDICULAR TO WETWELL AND VALVE VAULT AND DOOR HINGED TO OPEN AWAY FROM THE WETWELL AND VALVE VAULT.
2	1	DATA POCKET
3	1	BACK PANEL 33" X 45" NVENT HOFFMAN MODEL A36P48SS6, BACK PLATE - 33" WIDE BY 45" HIGH, 10 GAUGE (MINIMUM), PRIMED AND FINISH PAINTED STEEL BACK PLATE WITH 3/4" ROLLED OR BROKEN EDGES FOR SUPPORT. FINISH PAINT COATS SHALL HAVE A DRY FILM THICKNESS OF AT LEAST 4 MILS. HOFFMAN OR APPROVED EQUAL. ALL EQUIPMENT MOUNTED TO BACK PLATE SHALL BE ATTACHED WITH MACHINE SCREWS THROUGH DRILLED HOLES.
4	4	INTRINSICALLY SAFE RELAYS DIVERSIFIED ELECTRICAL MODEL ISO-120-AFA, SINGLE CHANNEL, 120 VAC POWER SUPPLY, 16 VOLT DC SENSING VOLTAGE, 200 MICROAMP SENSING AMPERAGE, 8-PIN PLUG-IN CONNECTION.
5	1	DEAD FRONT 32-1/2" WIDE BY 43" HIGH, 10 GAUGE (MINIMUM), BRUSHED ALUMINUM DEAD-FRONT PANEL WITH 304 STAINLESS STEEL OR ALUMINUM CONTINUOUS PIANO HINGE AND TWO QUARTER-TURN L-KNOB HANDLES FOR HOLDING THE PANEL CLOSED TO THE BACK OF THE PLATE AND INTERNAL FRAME OF THE CONTROL PANEL. ISOLATE CONTACT BETWEEN DISSIMILAR METALS W/ 1/8" NON-CONDUCTIVE INSULATING MATERIAL. PANEL SHALL BE PROVIDED WITH DOOR HOLD (OPEN) WITH STAINLESS STEEL ROD. DOOR SWING SHALL MINIMALLY BE 90-DEGREE OPEN. PANEL SHALL INCLUDE MOUNTED DEVICES AND CUT-OUTS AS INDICATED ON THE DRAWINGS. PANEL EDGES SHALL BE DEBURRED AND ROUNDED.
6	1	ALTERNATOR DUPLEX PANEL: MPE MODEL 008-120-12 OR DIVERSIFIED ELECTRIC MODEL ARA-120-ADA, 11-PIN PLUG-IN CONNECTION, DOUBLE POLE- DOUBLE THROW, 120 VAC CONTROL VOLTAGE, TRIPLEX PANEL: DIVERSIFIED MODEL ARA-120-AME, PANEL MOUNT, SINGLE POLE-SINGLE THROW, 120VAC CONTROL VOLTAGE
7	AS REQ'D	ANALOG TERMINAL BLOCKS SQUARE D TYPE GME 6, PROVIDE SQUARE D TYPE GH10 END CLAMPS AT EACH END OF THE TERMINAL STRIP. PROVIDE END BARRIER AT BOTTOM OF EACH TERMINAL STRIP, SQUARE D TYPE GME6B WITHOUT EXCEPTION.
8	AS REQ'D	24 VDC FUSED TERMINAL BLOCKS SQUARE D TYPE GME 6, PROVIDE SQUARE D TYPE GH10 END CLAMPS AT EACH END OF THE TERMINAL STRIP. PROVIDE END BARRIER AT BOTTOM OF EACH TERMINAL STRIP, SQUARE D TYPE GME6B WITHOUT EXCEPTION.
9	AS REQ'D	DISCRETE TERMINAL BLOCKS SQUARE D TYPE GME 6, 120 CONTROL TERMINAL BLOCKS FOR UP TO #10 AWG, 30 AMP, 600V. PROVIDE SQUARE D TYPE GH10 END CLAMPS AT EACH END OF THE TERMINAL STRIP. PROVIDE END BARRIER AT BOTTOM OF EACH TERMINAL STRIP, SQUARE D TYPE GME6B WITHOUT EXCEPTION.
10	AS REQ'D	DIN RAIL SQUARE D 9080MH339
11	1	STROBE/BEACON FEDERAL SIGNAL CORP. LP3P-120R, 120 VAC ALARM LIGHT INCLUDING RED LENS COVERING STROBE LAMP HOLDER WITH FLASHER. GASKET SHALL BE PROVIDED BETWEEN LENS AND ENCLOSURE FOR WEATHERTIGHT SEAL. ALARM LIGHT MOUNTING SHALL BE STAINLESS STEEL RIGID PIPE PREWIRED WITH LIGHT ATTACHED, AND PACKAGED SEPARATELY FOR TRANSPORT READY FOR FIELD ASSEMBLY. 1/4" DISCONNECTS SHALL BE PROVIDED INSIDE ENCLOSURE TO FACILITATE FIELD ASSEMBLY.
12	AS REQ'D	GREY WIRE DUCT PANDUIT GREY WIRING DUCT, 1" WIDE BY 3" HIGH, SHALL BE ATTACHED TO BACKPLATE WITH SCREWS.
13	1	GROUND BAR SQUARE D PK12GTA, GROUND COMPRESSION TYPE TERMINAL BLOCK MOUNTED DIRECTLY TO PANEL. GROUND BAR SHALL CONSIST OF MIN. 12 GROUND TERMINALS FOR UP TO #4 AWG WIRE.
14	1	ISOLATED GROUND BAR SQUARE D PK12GTA W/ PKGTAB
15	10	CONTROL RELAYS W/ OCTAL BASE AND PILOT LIGHT OPTION SQUARE D CLASS 8501 KPR12P14V20
16	AS REQ'D	BREAKER CUTOFF
17	2	SELECTOR SWITCH - THREE POSITION SQUARE D CLASS 9001, MODEL KS43BH2, 30MM INDUSTRIAL, MAINTAINED, LEVER OPERATOR, OIL-TIGHT, SELECTOR SWITCH WITH CONTACTS AS INDICATED ON THE DRAWINGS AND AN "MANUAL-OFF-AUTO" LEGEND PLATE.
18	2	PILOT LIGHTS SQUARE D CLASS 9001 TYPE SKP-38 LIGHT, TYPE G31 LENS AND TYPE KN-224 LEGEND PLATE, 120 VAC, RESISTOR TYPE, OIL-TIGHT, WATERTIGHT, PILOT LIGHT WITH COLORED GREEN, AMBER, OR RED PLASTIC LENS AS SHOWN ON DRAWINGS.
19	2	ELAPSED TIME METERS REDINGTON MODEL 710-0002, 120 VAC, 6-1/2 DIGIT, NONRESETABLE, PANEL- MOUNTED.
20	1	INTRUSION SWITCH INTRUSION SWITCH: THE SWITCH CONTACT SHALL BE NORMALLY CLOSED (OPEN WHEN THE PANEL DOOR IS CLOSED). INTRUSION SWITCH SHALL BE SQUARE-D 9007MS01IS0300 WITHOUT EXCEPTION.
21	1	TRANSFORMER SQUARE D 9070T750D1 W/ LEXAN FINGERSAFE COVER

MAJOR EQUIPMENT SCHEDULE		
ITEM	QTY	DESCRIPTION
22	3	120 VAC CIRCUIT BREAKERS SQUARE D TYPE QOU, CIRCUIT BREAKERS (CONTROL, GFI, RTU) - SINGLE POLE, 10 & 15 AMPERE, 120/240VAC, THERMAL MAGNETIC WITH MOUNTING FEET FOR BASE MOUNTING.
23	1	GFCI OUTLET 120 VAC, 20 AMPERE, DUPLEX, INDUSTRIAL-GRADE, IVORY, LEVITON MODEL 6598-I, OR EQUAL MOUNTED IN STANDARD OUTLET BOX.
24	1	LIGHT NVENT HOFFMAN LEDA1S35, LED PANEL LIGHT WITH INTEGRAL SWITCH
25	2	LATCHES QUARTER TURN L-KNOB
26	2	FVNR MAGNETIC STARTERS SQUARE D CLASS 8536 WITHOUT EXCEPTION MAGNETIC STARTERS - 3 POLE, 600 VAC MAXIMUM, OPEN CONSTRUCTION, CLOSE COUPLED, WITH OVERLOAD RELAY ASSEMBLIES. STARTER SHALL HAVE 120 VAC, 60 HZ MAGNETIC COIL AND SHALL MINIMALLY HAVE ONE AUXILIARY COIL STATUS CONTACT. STARTERS SHALL BE SIZED ACCORDING TO THE MOTOR HORSEPOWER AS FOLLOWS: NEMA SIZE 1: 230 VOLTS - 7-1/2 HP AND LESS 460 VOLTS - 10 HP AND LESS NEMA SIZE 2: 230 VOLTS - GREATER THAN 7-1/2 HP, LESS THAN OR EQUAL TO 15 HP 460 VOLTS - GREATER THAN 10 HP, LESS THAN OR EQUAL TO 25 HP NEMA SIZE 3: 230 VOLTS - GREATER THAN 15 HP 460 VOLTS - GREATER THAN 25 HP OVERLOAD ELEMENTS SHALL BE PROVIDED AND SHALL BE AS RECOMMENDED BY THE PUMP SUPPLIER. ELECTRONIC/ADJUSTABLE OVERLOADS ARE NOT ACCEPTABLE. PROVIDE WITH EXTERNAL RESET COVER OPERATOR ACCESSIBLE THROUGH THE DEAD FRONT.
27	1	MAIN CIRCUIT BREAKER CIRCUIT BREAKER (MAIN) - 3 POLE, 240 OR 480VAC, THERMAL MAGNETIC, "MAIN", WITH MOUNTING FEET FOR BASE MOUNTING. AMPERE RATING SHALL BE BASED ON THE SIZE OF THE PUMP STATION, BUT SHALL NOT BE RATED LESS THAN 100 AMPERES. SQUARE D TYPE QOU (230 VOLTS, 125 AMPS OR LESS), TYPE Q2L (230 VOLTS, 150 TO 225 AMPS), TYPE HDL (480 VOLTS, 100 AMPS OR LESS), OR POWERPACT J FRAME (480 VOLTS, 150 TO 250 AMPS), WITHOUT EXCEPTION.
28	2	PUMP MOTOR CIRCUIT BREAKER CIRCUIT BREAKERS (PUMP MOTORS) - 3 POLE, THERMAL MAGNETIC, SUITABLE BASE MOUNTING. AMPERE RATING SHALL BE BASED ON THE STARTING CURRENT OF THE MOTOR PER NEC AND SHALL BE RATED NOT LESS THAN 125% NOR GREATER THAN 250% OF MOTOR FLA. SQUARE D TYPE QOU (230 VOLTS, 125 AMPS OR LESS), TYPE Q2L (230 VOLTS, 150 TO 225 AMPS), TYPE HDL (480 VOLTS, 100 AMPS OR LESS), OR POWERPACT J FRAME (480 VOLTS, 110 TO 250 AMPS), WITHOUT EXCEPTION.
29	1	POWER DISTRIBUTION BLOCK SQUARE D TYPE LBA363206 FOR PANELS 3 POLE 600 VAC, WITH LINE LUGS FOR TWO (2) #14 TO 2/0 AWG CABLE PER PHASE. SQUARE D TYPE LBA365208 FOR PANELS REQUIRING #2 AWG BRANCH CIRCUITS. PROVIDE WITH PLEXIGLASS COVERS.
30	1	NEUTRAL DISTRIBUTION BLOCK SQUARE D TYPE LBA163206, SINGLE POLE, 600VAC, WITH LINE LUGS FOR TWO (2) #14 TO 2/0 AWG CABLES AND LOAD LUGS FOR SIX (6) #14 TO #4 AWG CABLES PER PHASE. PROVIDE WITH PLEXIGLASS COVERS.
31	2	ELAPSED TIME METERS REDINGTON MODEL 710-0002
32	2	PUSH BUTTON PILOT DEVICE - SILENCE SQUARE D CLASS 9001 KR1R, FLUSH, MOMENTARY (SPRING-RETURN), OIL-TIGHT, NEMA 4 PUSH-BUTTON WITH 1-1/2" CONTACT WITH RED LEGEND PLATE ENGRAVED "ALARM SILENCE" AND "TEST ALARM" RESPECTIVELY. VFD (BELOW 50 HP) HITACHI WJ200 SERIES (230V) HITACHI WJ400 SERIES (480V)
33	2	VFD (50 HP AND ABOVE) ALLEN BRADLEY 753 POWERFLEX SARASOTA COUNTY RETAINS THE OPTION TO APPROVE SOFT STARTS.
34	1	PHASE MONITOR/RELAY 208-230 VAC THREE PHASE DIVERSIFIED MODEL SLA-230-ALA, 230 VAC SINGLE PHASE DIVERSIFIED MODEL UOA-240-AKA, AND 480 VAC SYSTEMS 12 PIN SOCKET MPE MODEL 001-DVM-1212 W / SD12 SOCKET. AUTOMATIC RESET, FUSED, SURFACE-MOUNT, OCTAL SOCKET PLUG-IN CONNECTION, ADJUSTABLE RANGE VOLTAGE FOR 3 PHASE POWER SYSTEMS WITHOUT EXCEPTION. PROVIDE MATCHING SOCKET TO MAINTAIN UL LISTING
35	1	FUSE BLOCK SQUARE D MODEL FB2211 (250 VOLT SYSTEMS) OR MODEL 2611 (600 VOLT SYSTEMS)
36	1	CELLULAR DIALER MISSION MYDRO 850, FLATPAK, W/ PIN OP653 (8DI MODULE)



A EXTERNAL ELEVATION
 SCALE: NO SCALE
 FILE: 11572A1002N603.2dm

REV	DATE	BY	DESCRIPTION



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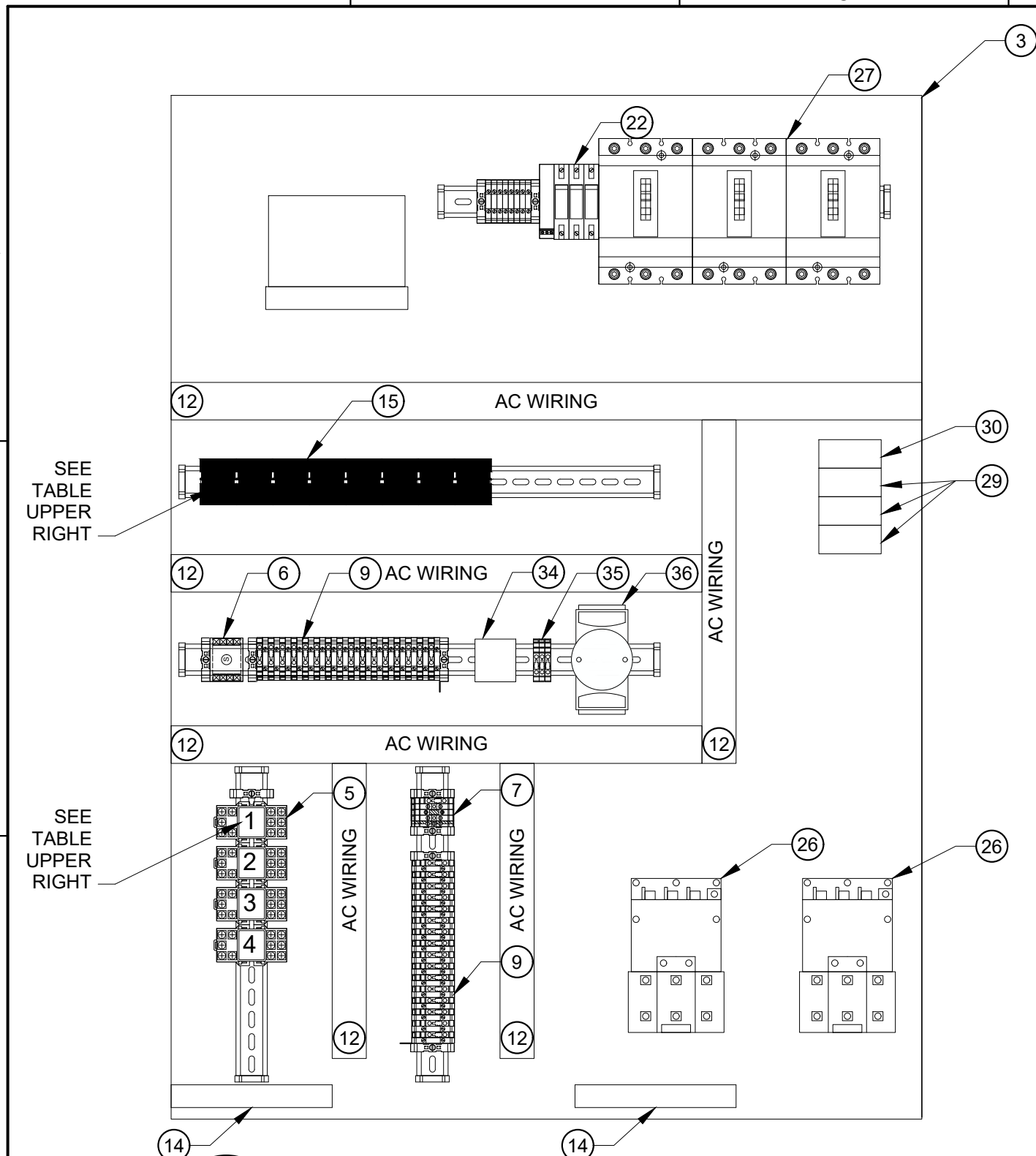
SARASOTA COUNTY
 SCADA STANDARDS
 INSTRUMENTATION
 DEVELOPER LS - DUPLEX PUMP
 CONTROL PANEL EXTERNAL ELEVATION

VERIFY SCALES
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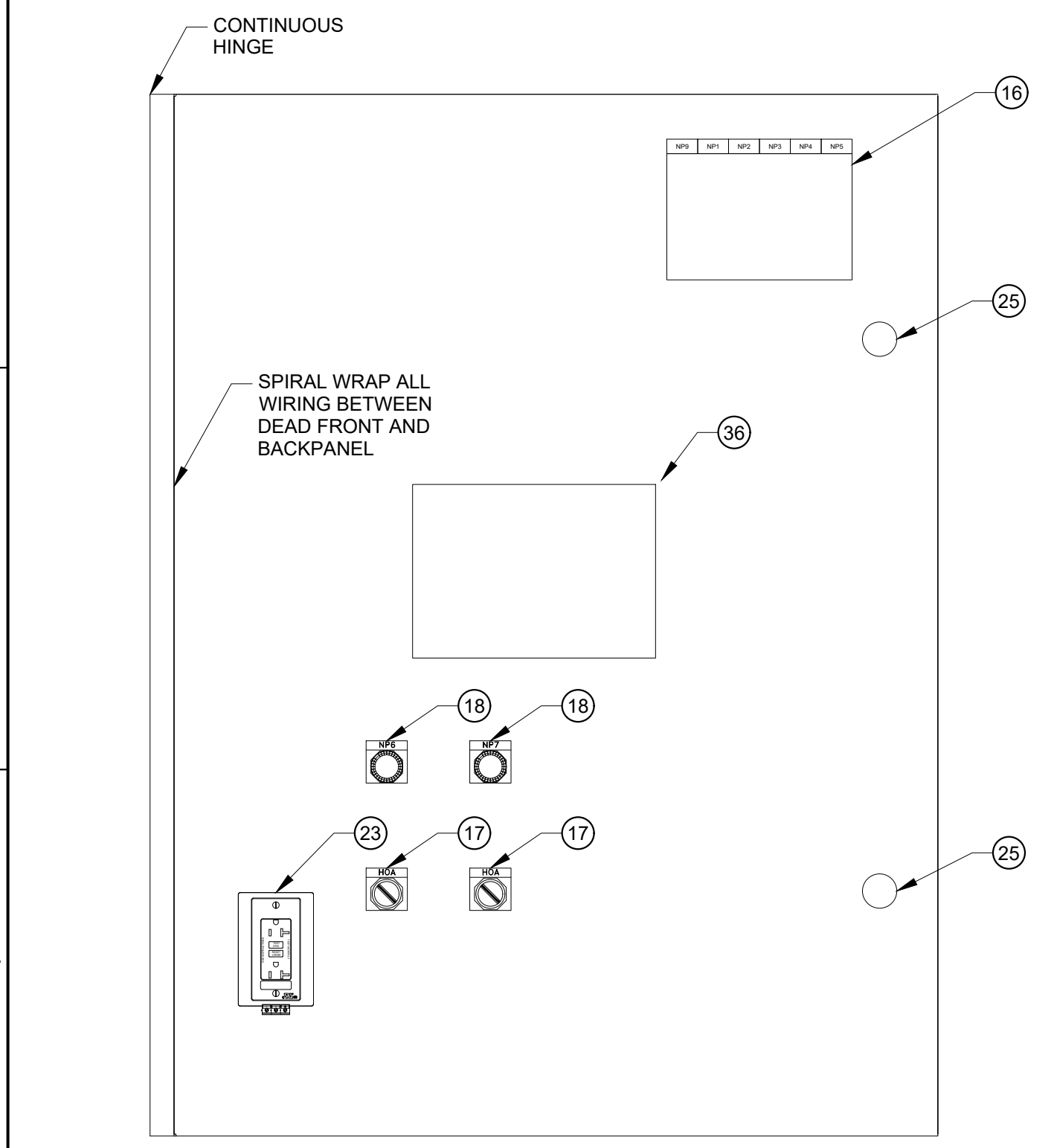
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 DRAWING NO. 18N01
 SHEET NO. 9 OF 16

⑮ CONTROL RELAY SCHEDULE	
1	FLT1A
2	FLT1B
3	FLT2A
4	FLT2B
5	HWL
6	AR1
7	AR2
8	AHR

④ INTRINSICALLY SAFE RELAY SCHEDULE	
1	POWER
2	LEAD
3	LAG
4	HIGH WATER



B INTERNAL ELEVATION
SCALE: NO SCALE
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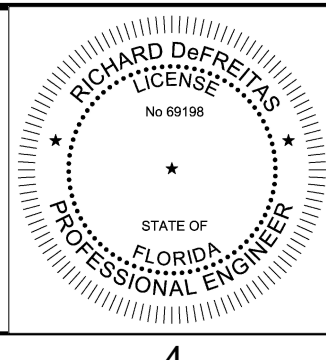


C DEAD FRONT ELEVATION
SCALE: NO SCALE
FILE: 11572A1002N603.2dgm

MAJOR EQUIPMENT SCHEDULE		
ITEM	QTY	DESCRIPTION
1	1	NEMA 4X 316 STAINLESS STEEL ENCLOSURE 48" X 36" W
2	1	DATA POCKET
3	1	BACK PANEL 33" X 45"
4	4	INTRINSICALLY SAFE RELAYS
5	1	DEAD FRONT
6	1	ALTERNATOR
7	AS REQ'D	ANALOG TERMINAL BLOCKS
8	AS REQ'D	24 VDC FUSED TERMINAL BLOCKS
9	AS REQ'D	DISCRETE TERMINAL BLOCKS
10	AS REQ'D	DIN RAIL
11	1	STROBE/BEACON
12	AS REQ'D	GREY WIRE DUCT
13	1	GROUND BAR
14	1	ISOLATED GROUND BAR
15	10	CONTROL RELAYS W/ OCTAL BASE AND PILOT LIGHT OPTION
16	AS REQ'D	BREAKER CUTOFF
17	2	SELECTOR SWITCH - THREE POSITION
18	2	PILOT LIGHTS
19	2	ELAPSED TIME METERS
20	1	INTRUSION SWITCH
21	1	TRANSFORMER

MAJOR EQUIPMENT SCHEDULE		
ITEM	QTY	DESCRIPTION
22	3	120 VAC CIRCUIT BREAKERS
23	1	GFCI OUTLET
24	1	LIGHT
25	2	LATCHES
26	2	FVNR MAGNETIC STARTERS
27	1	MAIN CIRCUIT BREAKER
28	2	PUMP MOTOR CIRCUIT BREAKER
29	1	POWER DISTRIBUTION BLOCK
30	1	NEUTRAL DISTRIBUTION BLOCK
31	2	ELAPSED TIME METERS
32	2	PUSH BUTTON PILOT DEVICE - SILENCE
33	2	VFD (50 HP AND ABOVE)
34	1	PHASE MONITOR/RELAY
35	1	FUSE BLOCK
36	1	CELLULAR DIALER

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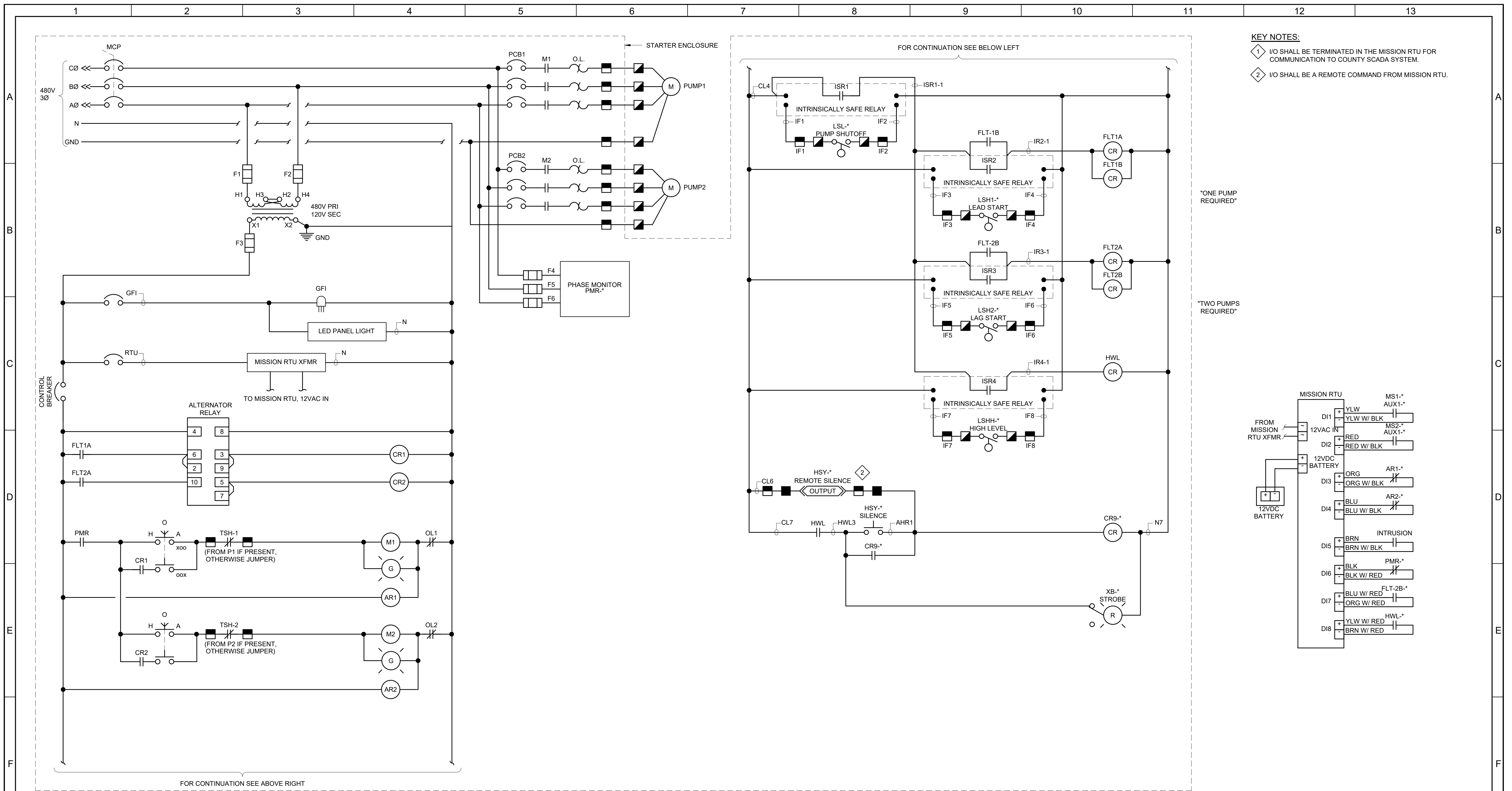
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SCADA STANDARDS
INSTRUMENTATION
DEVELOPER LS - DUPLEX PUMP CONTROL PANEL
480V/240V/208V 3PH INTERNAL ELEVATION

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DRAWING NO. 18N02
SHEET NO. 10 OF 16

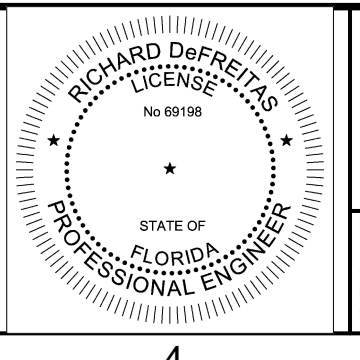


KEY NOTES:
 1 I/O SHALL BE TERMINATED IN THE MISSION RTU FOR COMMUNICATION TO COUNTY SCADA SYSTEM.
 2 I/O SHALL BE A REMOTE COMMAND FROM MISSION RTU.

4 480V THREE PHASE LIFT STATION PUMP CONTROL PANEL DUPLEX
 10N05

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RD
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JANUARY 2025



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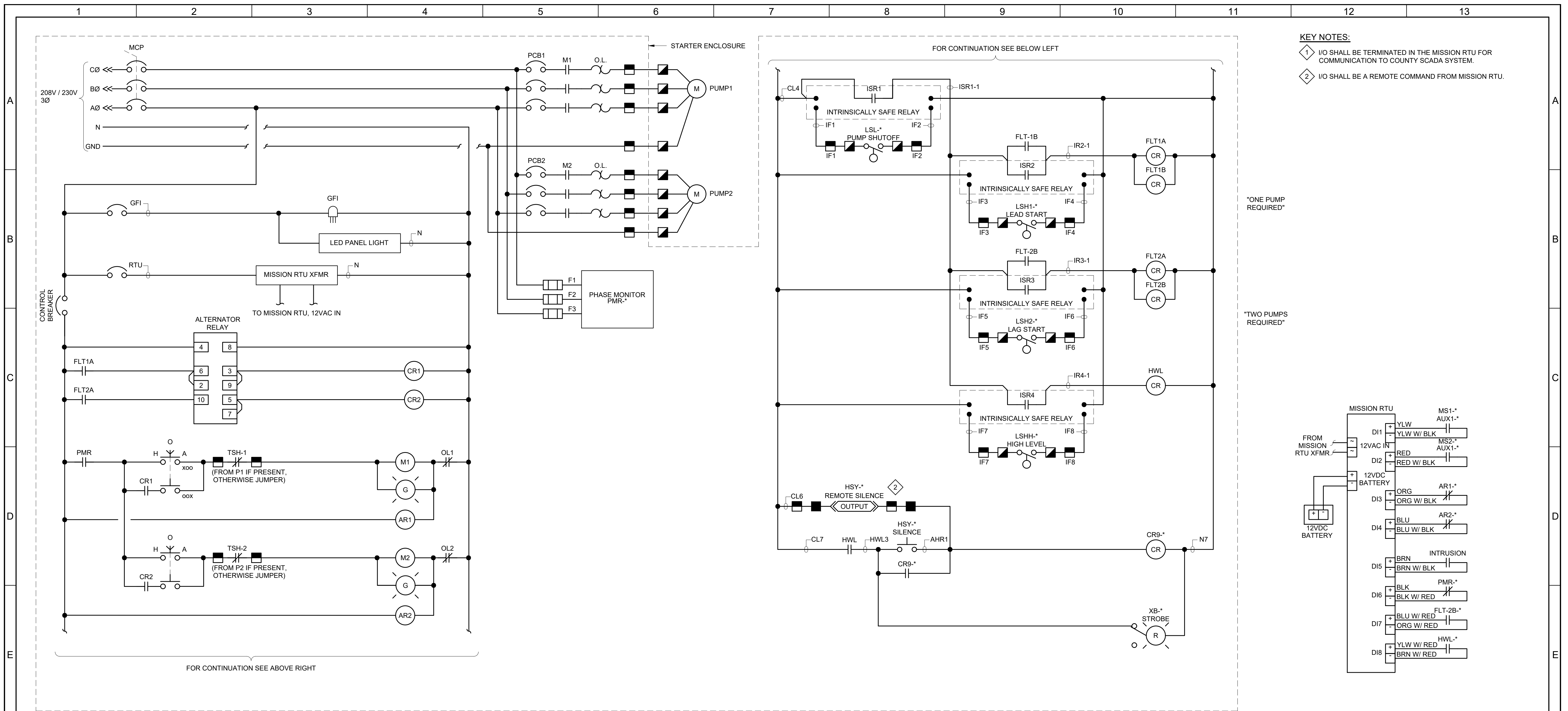
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 INSTRUMENTATION
 DEVELOPER LS - CONTROL SCHEMATIC
 480V THREE PHASE DUPLEX

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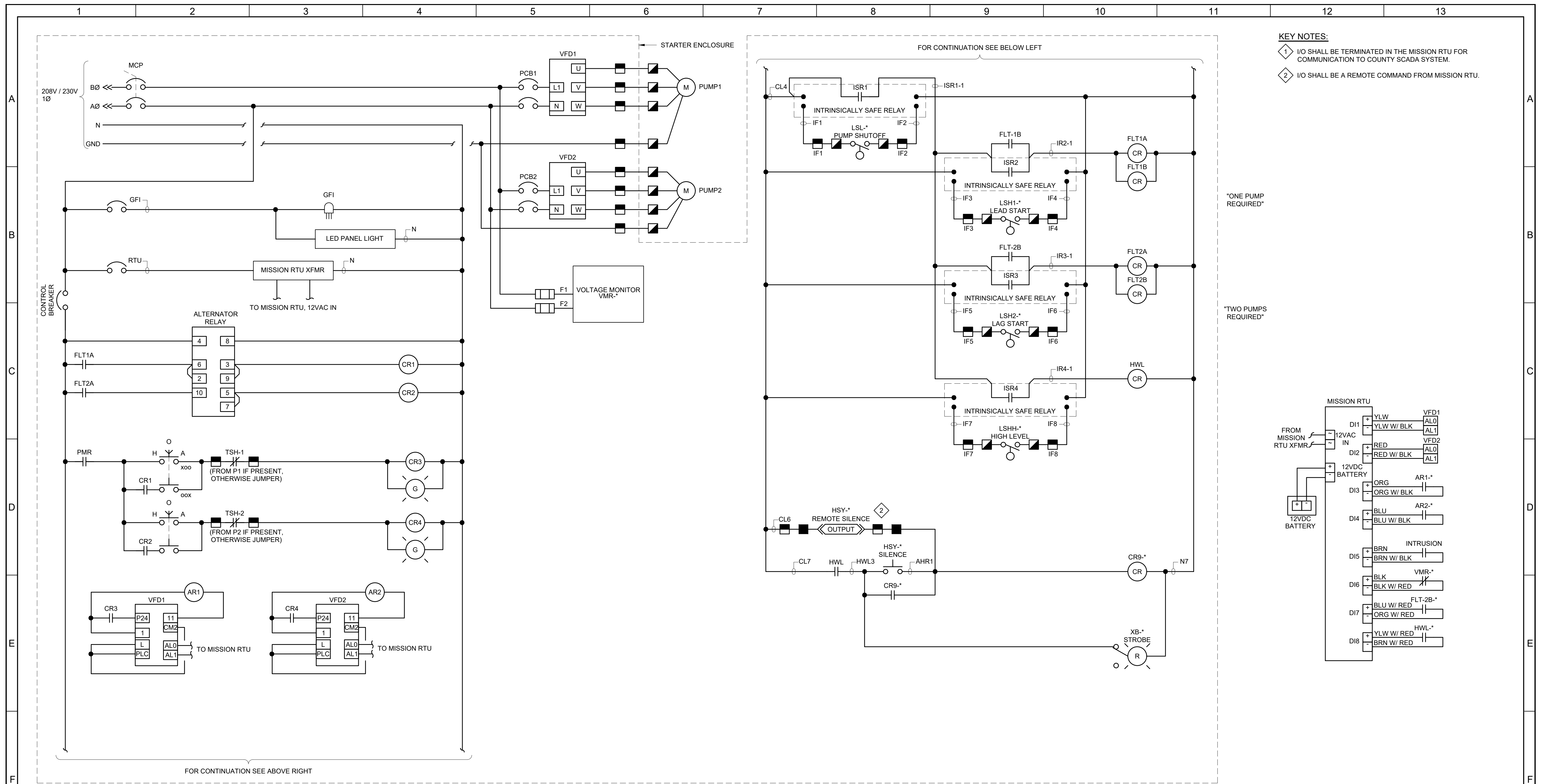
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 DRAWING NO. 18N04
 SHEET NO. 12 OF 16



KEY NOTES:
 1 I/O SHALL BE TERMINATED IN THE MISSION RTU FOR COMMUNICATION TO COUNTY SCADA SYSTEM.
 2 I/O SHALL BE A REMOTE COMMAND FROM MISSION RTU.

5 208V / 230V THREE PHASE LIFT STATION PUMP CONTROL PANEL DUPLEX

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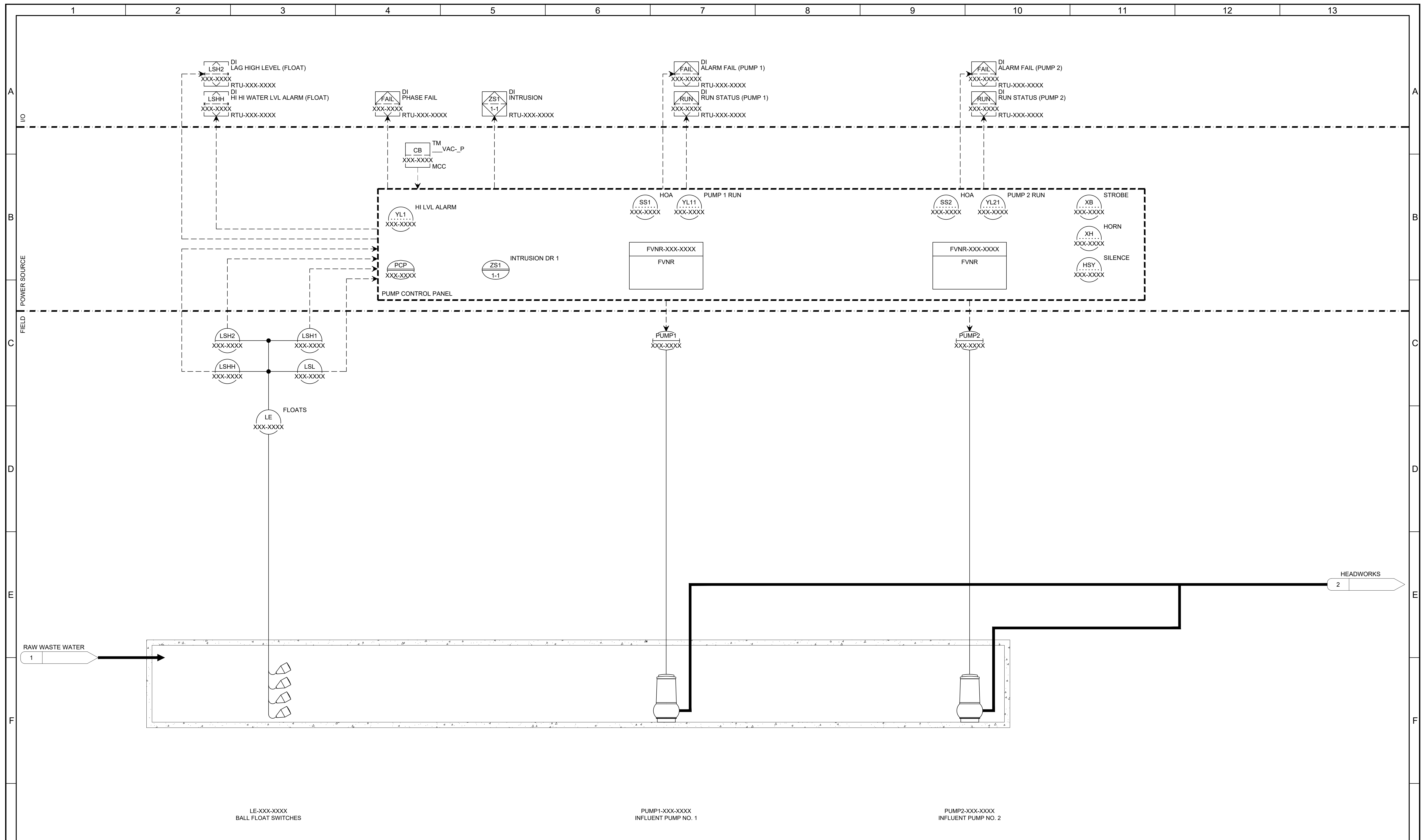
KEY NOTES:

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2 I/O SHALL BE A REMOTE COMMAND FROM MISSION RTU.

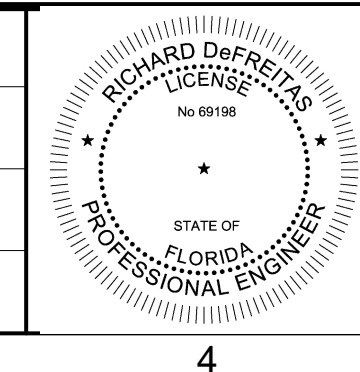
6 208V / 230V THREE PHASE LIFT STATION PUMP CONTROL PANEL DUPLEX

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DRAWN KMM								
CHECKED RD								
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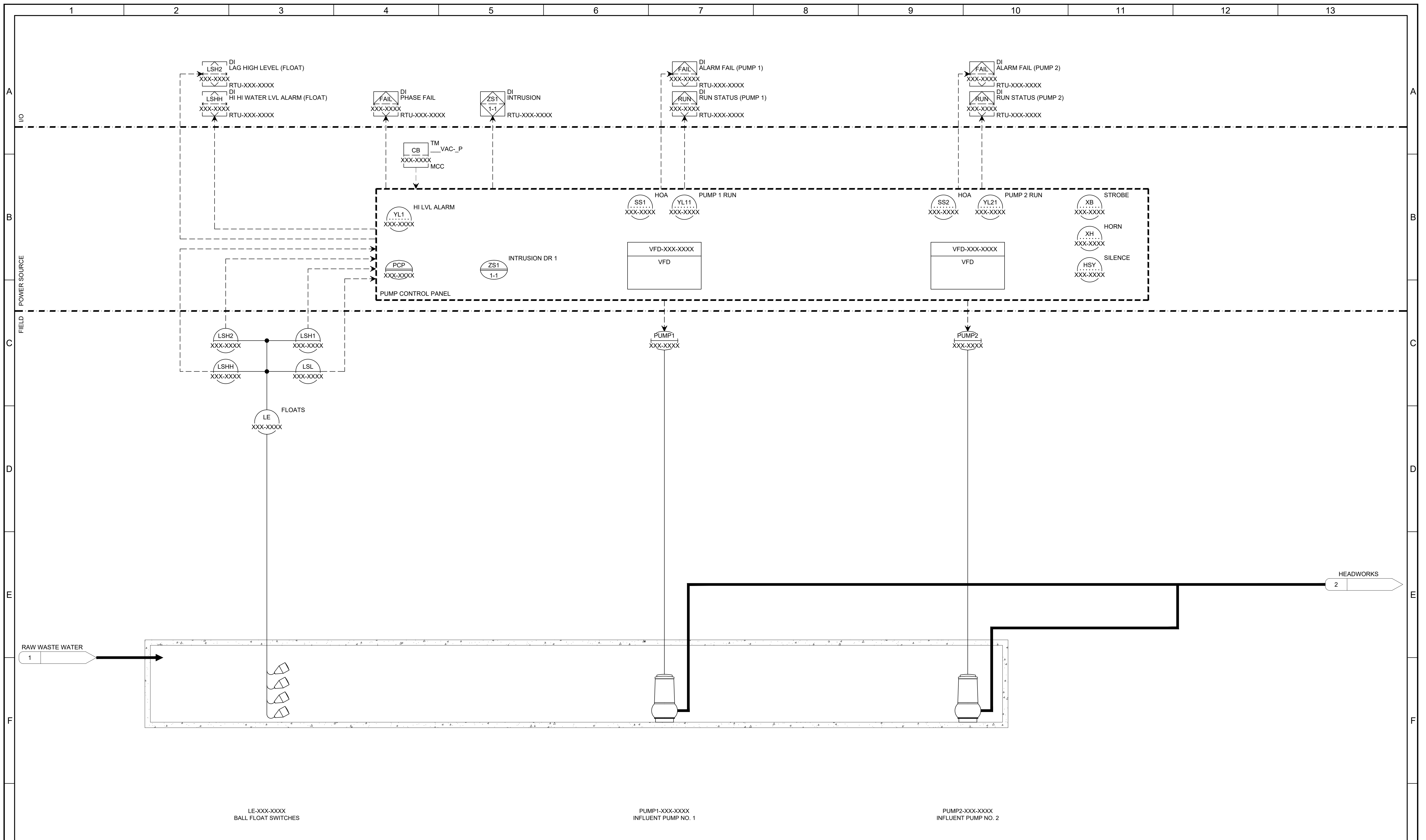
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THREE PHASE PUMP STATION

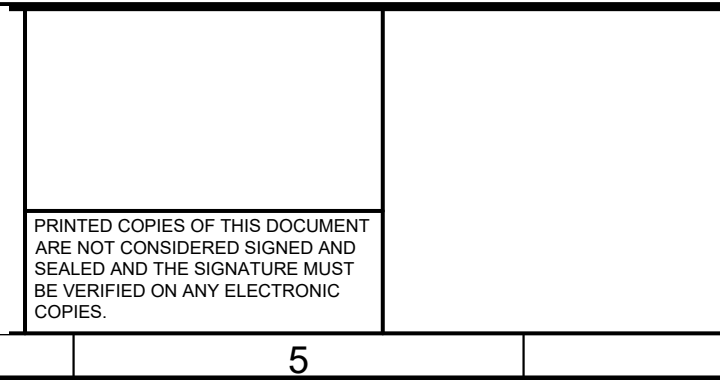
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11572A10
DRAWING NO.
18N07
SHEET NO.
15 OF 16



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THREE PHASE PUMP STATION

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SHEET NO. 16 OF 16

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