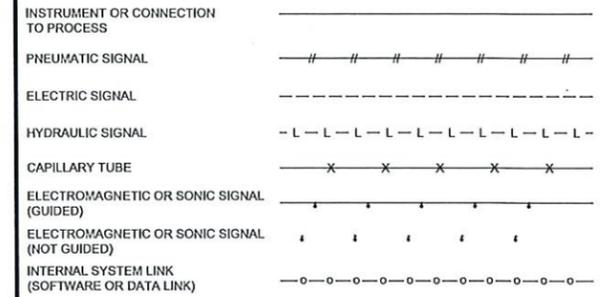


INSTRUMENT TAG IDENTIFICATION LETTERS

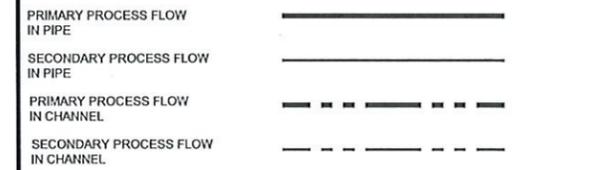
MEASURED VARIABLE \ INSTRUMENT FUNCTION	ELEMENT	TRANSMITTER	INDICATING TRANSMITTER	CONVERTER TRANSDUCER, RELAY SPECIAL DEVICES	INDICATOR	RECORDER	CONTROLLER	INDICATING CONTROLLER	RECORDING CONTROLLER	SWITCH	SWITCH LOW LOW	SWITCH LOW	SWITCH HIGH	SWITCH HIGH HIGH	SWITCH COMBINATION HIGH LOW	ACTION	ALARM 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			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 VOLTAGE												ESL													
F FLOW	FE	FT	FIT	FY	FI	FR	FC	FIC	FRC	FS	FSLL	FSL	FSH	FSHH	FSHL		FALL	FAL	FAH	FAHH	FQI	FCV	FG	FL	
FF FLOW RATIO				FFY	FFI		FFC	FFIC		FFS														FFL	
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	KSLL	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 USER'S CHOICE																									
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 RADIATION																									
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	WC	WIC	WRC	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**											ZV		ZL**		

* REFER TO OPERATOR PILOT DEVICE LEGEND
 ** LETTER INDICATES POSITION (O=OPEN, C=CLOSED, R=RAISE, L=LOWER, ETC)

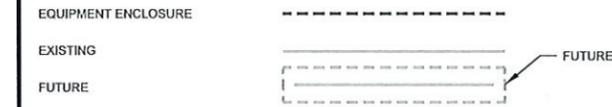
P&ID LINE SYMBOLS



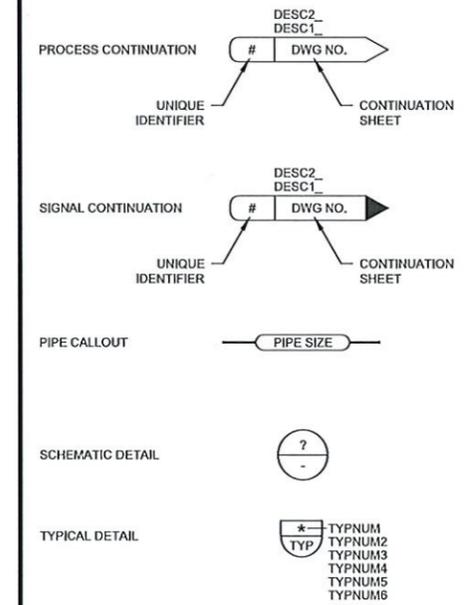
PROCESS LINE SYMBOLS



DESIGNATIONS



MISCELLANEOUS P&ID SYMBOLS



OPERATOR PILOT DEVICE LEGEND

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-AUTO-MANUAL (SAAM)	LEAD-LAG-STANDBY (LLGS)	JOG OPEN-JOG CLOSE (JOJC)	ONLINE-OFFLINE (OLOF)	AUTO-MANUAL (AM)	FIXED RATE-LEVEL RATE (FR/LR)	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	HSJ*	HSH	HIS	HSK	HSL*	HSM*	HSN	HSO	HSP	HSQ*	HSR	HSS	HST*	HSU	HSV	HSW	HSX	HSY	HSZ

PLC I/O TAG: * = R (REMOTE), 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		

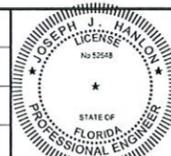
INSTRUMENT TYPE DESIGNATIONS

CGD	COMBUSTIBLE GAS DETECTOR	RTD	RESISTANCE TEMP DETECTOR
COND	CONDUCTIVITY	SB	SLUDGE BLANKET
DO	DISSOLVED OXYGEN	SC	STREAMING CURRENT
FMCW	FREQ. MODULATED CONT. WAVE	SD	SLUDGE DEPTH
IS	INTRINSIC SAFETY BARRIER	SH	SODIUM HYPOCHLORITE
LEL	LOWER EXPLOSIVE LIMIT	SO2	SULFUR DIOXIDE
MLSS	MIXED LIQUOR SUSPENDED SOLIDS	TDR	TIME DOMAIN REFLECTOMETRY
ORP	OXIDATION REDUCTION POTENTIAL	TOC	TOTAL ORGANIC CARBON
P-SUB	PRESSURE SUBMERSIBLE	TSS	TOTAL SUSPENDED SOLIDS
PC	PARTICLE COUNTER	UVI	UV INTENSITY
PTOF	PULSE TIME OF FLIGHT	UVT	UV TRANSMITTANCE

SPECIFIC ABBREVIATIONS

HTR	HEATER
HTU	HEAT TRACE UNIT
MWH	MOTOR WINDING HEATER
SV	SOLENOID VALVE
SPD	SURGE PROTECTIVE DEVICE
UPS	UNINTERRUPTIBLE POWER SUPPLY
YA	STATUS AUTO
YR	STATUS REMOTE
Y1	STATE RUNNING
Y2	ALARM FAILED/FAULT

DESIGNED
JH
DRAWN
TCD
CHECKED
AMA
DATE
NOVEMBER 2025



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 301 North Cattleman Road, Suite 302
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 Phone: 941-371-9832
 CA No. 00008571



COLLIER COUNTY
 NORTHEAST WRF/WTP -DIW CONVEYANCE
 INSTRUMENTATION
 SYMBOLS AND ABBREVIATIONS 2

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

JOB NO.
71261.10
 DRAWING NO.
00GN02
 SHEET NO.
41 OF 62

Plot Date: 07-NOV-2025 8:26:06 AM

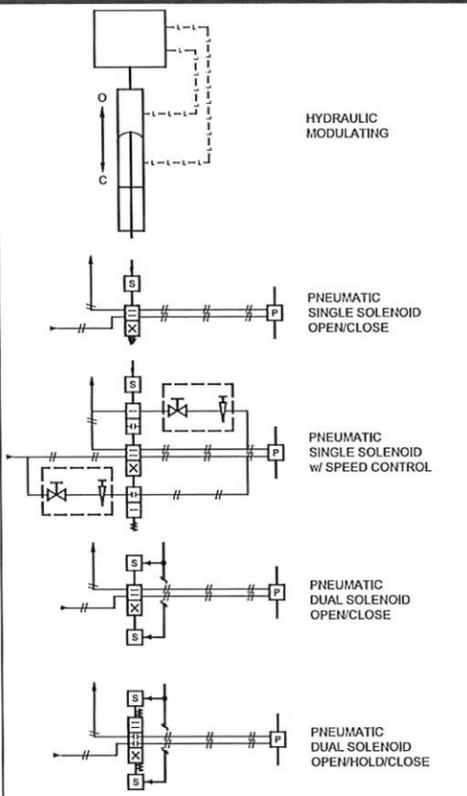
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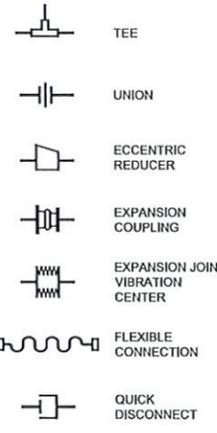
ACTUATORS

- DIAPHRAGM
- ELECTRIC DISCRETE
- ELECTRIC MODULATING
- ELECTRIC HYDRAULIC
- HAND
- HYDRAULIC
- PNEUMATIC
- SOLENOID



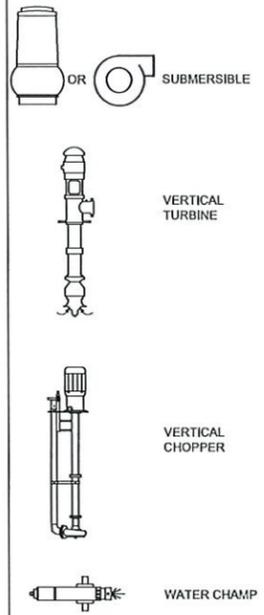
PIPING

- AIR GAP
- BLIND FLANGE
- CAPPED OR PLUGGED
- CONCENTRIC INCREASER
- CONCENTRIC REDUCER
- DRAIN
- ECCENTRIC INCREASER
- FLANGED CONNECTION



PUMPS

- AIR DRIVEN
- CENTRIFUGAL
- CHEMICAL FEED DIAPHRAGM
- DIAPHRAGM
- GEAR
- PERISTALTIC OR HOSE
- PISTON
- PROGRESSIVE CAVITY



BLOWERS/COMPRESSORS

- CENTRIFUGAL SINGLE STAGE BLOWER
- CENTRIFUGAL MULTI STAGE BLOWER
- RECIPROCATING COMPRESSOR
- SCREW COMPRESSOR
- FAN
- LIQUID RING COMPRESSOR
- ROTARY LOBE BLOWER

CHECK VALVES

- BACK FLOW PREVENTER
- BALL
- DIAPHRAGM CHECK
- DOUBLE FLAP
- FLAPPER
- SPRING LOADED GENERAL
- SPRING LOADED SWING
- SWING

PRESSURE VALVES

- BACKPRESSURE REGULATING SELF CONTAINED
- BACKPRESSURE REGULATING EXTERNAL TAP
- PRESSURE REDUCING SELF CONTAINED
- PRESSURE REDUCING EXTERNAL TAP
- REGULATING
- PRESSURE RELIEF
- VACUUM RELIEF

VALVES

- 3-WAY
- 3-WAY PLUG
- 4-WAY
- AIR-RELIEF
- ANGLE
- BALL
- BALL V-NOTCH
- BUTTERFLY
- BUTTERFLY-BURIED VALVE BOX
- CONE
- DIAPHRAGM

- FLOAT
- GATE
- GATE-BURIED VALVE BOX
- GLOBE
- HOSE
- MUD
- NEEDLE
- PINCH
- PLUG ECCENTRIC
- PLUG ECCENTRIC w-VALVE BOX
- PLUG ECCENTRIC LUBRICATED

- PLUG ECCENTRIC LUBRICATED BURIED VALVE BOX
- PLUG CONCENTRIC
- PLUG CONCENTRIC -BURIED VALVE BOX
- PLUG CONCENTRIC LUBRICATED
- PLUG CONCENTRIC LUBRICATED BURIED VALVE BOX
- PUMP DISCHARGE
- TELESCOPING

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

MISC

- AIR / CHEMICAL DIFFUSER
- BASKET STRAINER
- BLOW-OFF SILENCER
- CALIBRATION COLUMN
- COALESCER
- DESICCANT DRYER
- EDUCTOR/EJECTOR
- EQUIPMENT/INSTRUMENT LOCATOR
- EXHAUST FAN

- EYEWASH
- FILTER
- FILTER SEPARATOR
- FINE FILTER
- FIRE ALARM/SENSOR
- FLAME ARRESTER
- FLAME ARRESTER w/THERMALLY OPERATED VALVE

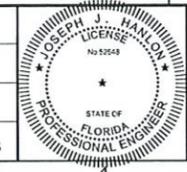
- FLOW CONDITIONER
- GAS CANNON
- GRINDER
- HEAT EXCHANGER
- HOIST
- HORIZONTAL MIXER
- HOSE CONNECTION
- INLET STRAINER
- INLINE STATIC MIXER
- INLINE DUCT DAMPER
- LOUVER OR DAMPER

- MATERIAL CHANGE
- MIXER
- MOTOR
- NOZZLE
- ORIFICE RESTRICTION
- PERISTALTIC COMPOSITE SAMPLER
- PULSATION DAMPENER
- REFRIGERATED DRYER
- RUPTURE DISK

- SAMPLE PORT
- SIGHT TUBE
- SMOKE DETECTOR
- STRAINER - MECHANICALLY CLEANED
- STRAINER WITH BLOW OFF
- STRAINER WYE TYPE
- VAPOR HEATER
- VAPORIZER
- VENT
- VENT TO ATMOSPHERE

REV	DATE	BY	DESCRIPTION
1	10/25	RC	BID SET

DESIGNED	JJH
DRAWN	TCB
CHECKED	AMA
DATE	NOVEMBER 2025



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Collier County

COLLIER COUNTY
 NORTEAST WRF/WTP -DIW CONVEYANCE
 INSTRUMENTATION
 SYMBOLS AND ABBREVIATIONS 3

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

JOB NO. 71261.10
 DRAWING NO. 00GN03
 SHEET NO. 42 OF 62

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 User: sncRW
 Model: Layout11 ColorTable: gshade.ctb DesignScript: Carollo_Sid_Pen_v0905.pen PlotScale: 1:1
 dlmada

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FLOW																																			
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; vertical-align: top;"> BATCH CORIOLIS MAGNETIC ORIFICE PADDLE WHEEL PISTON ANNUBAR PITOT TUBE POSITIVE-DISPLACEMENT PROPELLER-TURBINE ROTAMETER THERMAL ULTRASONIC ULTRASONIC BIOGAS </td> <td style="width: 50%; vertical-align: top;"> V-CONE VENTURI TUBE OR FLOW NOZZLE VORTEX </td> </tr> </table>																								BATCH CORIOLIS MAGNETIC ORIFICE PADDLE WHEEL PISTON ANNUBAR PITOT TUBE POSITIVE-DISPLACEMENT PROPELLER-TURBINE ROTAMETER THERMAL ULTRASONIC ULTRASONIC BIOGAS	V-CONE VENTURI TUBE OR FLOW NOZZLE VORTEX										
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NETWORKS																																			
CABLE CALLOUTS AND ABBREVIATIONS																																			
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PROFIBUS PA	— PBA — PBA — PBA — PBA — PBA —																																		
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User: svcpw

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clmaza

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PROCESS SWITCHES		HAND SWITCHES		RELAYS		TERMINAL BLOCKS		MISC		MISC		
	FLOAT SWITCH CLOSE ON RISING LEVEL		NORMALLY OPEN MOMENTARY PUSHBUTTON		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 b = TDON - TIME DELAY ON ENERGIZATION TDOFF - TIME DELAY ON DEENERGIZATION c = TIMING RANGE/SETTING d = DESCRIPTION		TERMINAL IN PLC/PCM PANEL		SOLENOID		MISC PORT	
	FLOAT SWITCH OPEN ON RISING LEVEL		NORMALLY CLOSED MOMENTARY PUSHBUTTON				TERMINAL IN MOTOR CONTROL CENTER		CIRCUIT BREAKER		ETHERNET PORT	
	PRESSURE SWITCH CLOSE ON RISING PRESSURE		THREE POSITION SELECTOR SWITCH x - DENOTES POSITION CONTACTS CLOSED IN				TERMINAL IN LOCAL STARTER CONTROL PANEL		DISCONNECT		SPD SURGE PROTECTION DEVICE	
	PRESSURE SWITCH OPEN ON RISING PRESSURE		TWO POSITION SELECTOR SWITCH x - DENOTES POSITION CONTACTS CLOSED IN		NORMALLY OPEN CONTROL CONTACT		TERMINAL IN RTU		FUSE		TRANSFORMER LINE/LOAD REACTOR	
	TEMPERATURE SWITCH CLOSE ON RISING TEMPERATURE		MUSHROOM HEAD PUSHBUTTON		NORMALLY CLOSED CONTROL CONTACT		TERMINAL IN FIELD PANEL		TRANSIENT SURGE PROTECTION		MWH* MOTOR WINDING HEATER * - MOTOR TAG I.D.	
	TEMPERATURE SWITCH OPEN ON RISING TEMPERATURE		PUSH-PULL PUSHBUTTON MAINTAINED CONTACT		TIME DELAY CONTACT NORMALLY OPEN TIMED CLOSING		TERMINAL IN (USER CHOICE)		VARISTOR		CAPACITOR	
	FLOW SWITCH CLOSE ON INCREASE IN FLOW		PADLOCK SWITCH x - DENOTES POSITION CONTACTS CLOSED IN		TIME DELAY CONTACT NORMALLY CLOSED TIMED OPENING		DIGITAL BUS CONNECTOR * = D - DEVICENET * = PA - PROFIBUS PA * = DP - PROFIBUS DP * = H1 - FOUNDATION FIELDBUS H1 * = H2 - FOUNDATION FIELDBUS H2 * = E - ETHERNET		RESISTOR		BATTERY	
	FLOW SWITCH OPEN ON INCREASE IN FLOW		PULL CORD SWITCH		TIME DELAY CONTACT NORMALLY OPEN TIMED OPENING		MOTOR OVERLOAD HEATERS		DIODE		OVERLOAD CONTACT	
	VIBRATION SWITCH OPEN ON RISING VIBRATION		STOP-LOCKOUT PUSHBUTTON		TIME DELAY CONTACT NORMALLY CLOSED TIMED CLOSING		DRAWOUT CONNECTION		GROUND		LIGHTNING ARRESTOR	
	VIBRATION SWITCH CLOSE ON RISING VIBRATION		SPRING-RETURN x - DENOTES POSITION CONTACTS CLOSED IN				PLC DISCRETE a = INPUT OR OUTPUT AS INDICATED		CONTROL POWER TRANSFORMER		ETM ELAPSED TIME METER	
	TORQUE SWITCH OPEN ON HIGH TORQUE	INDICATORS					PLC ANALOG a = INPUT OR OUTPUT AS INDICATED		DIGITAL BUS		RTD	
	TORQUE SWITCH CLOSE ON HIGH TORQUE		PILOT LIGHT a = LENS COLOR R = RED G = GREEN W = WHITE A = AMBER B = BLUE Y = YELLOW C = CLEAR									
	NORMALLY CLOSED LIMIT SWITCH		BEACON a = LENS COLOR R = RED G = GREEN W = WHITE A = AMBER B = BLUE M = MAGENTA C = CLEAR									
	NORMALLY CLOSED HELD OPEN LIMIT SWITCH		HORN									
	NORMALLY OPEN LIMIT SWITCH											
	NORMALLY OPEN HELD CLOSED LIMIT SWITCH											

DESIGNED	JJH		
DRAWN	TCB		
CHECKED	AMA		
DATE	NOVEMBER 2025		
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JJH
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DATE
NOVEMBER 2025

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Phone: 941-371-9832
CA No. 00008571

COLLIER COUNTY

COLLIER COUNTY
NORTHEAST WRF/WTP -DIW CONVEYANCE
INSTRUMENTATION
SCHEMATIC SYMBOLS

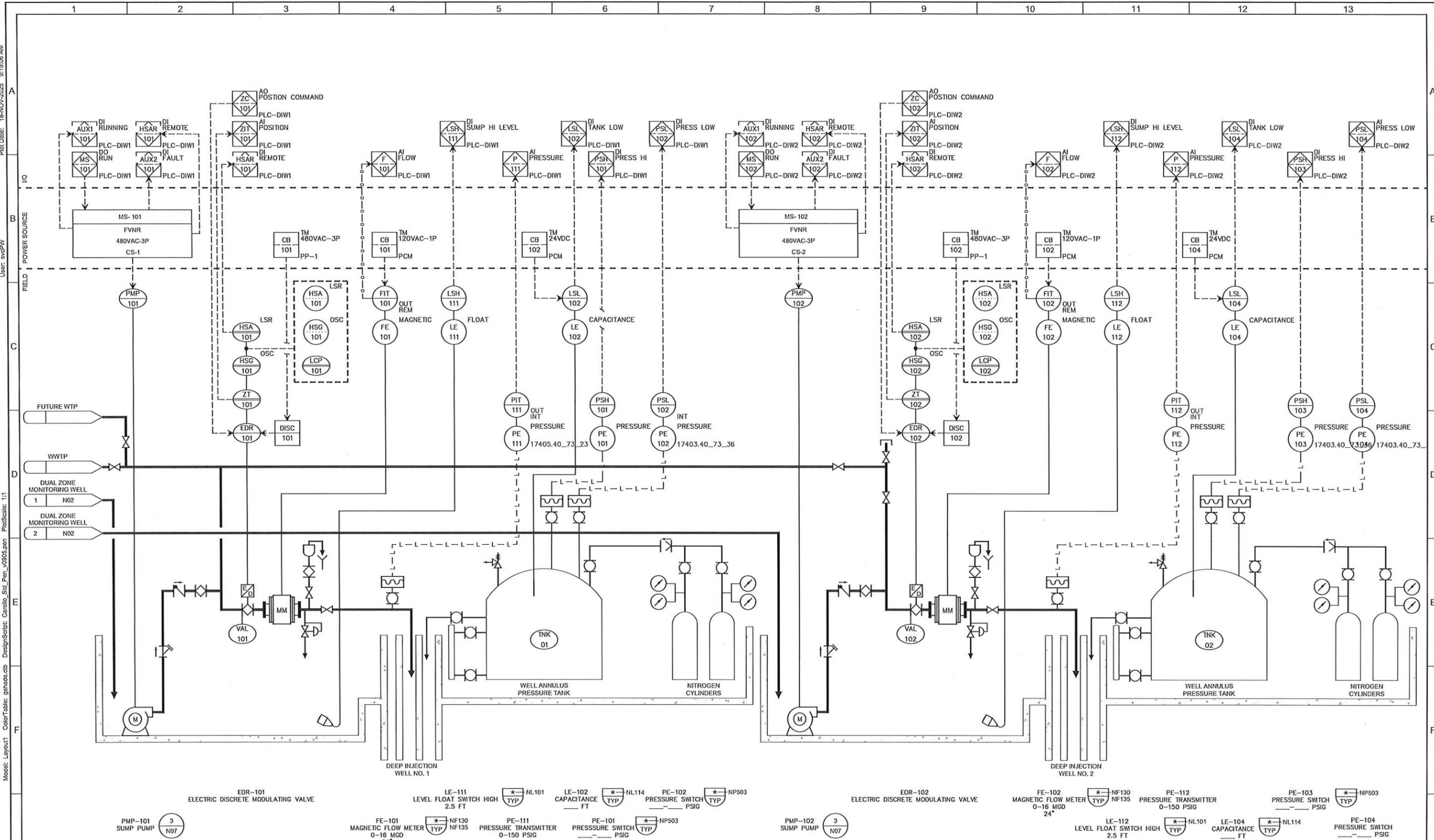
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SHEET NO. 44 OF 62

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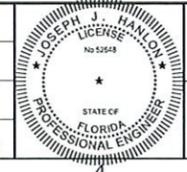
dimeda



- EDR-101 ELECTRIC DISCRETE MODULATING VALVE
- LE-111 LEVEL FLOAT SWITCH HIGH 2.5 FT
- FE-101 MAGNETIC FLOW METER 0-16 MGD 24"
- PE-111 PRESSURE TRANSMITTER 0-150 PSIG
- PE-101 PRESSURE SWITCH 0-150 PSIG
- PMP-101 SUMP PUMP
- LE-102 CAPACITANCE FT
- PE-102 PRESSURE SWITCH 0-150 PSIG
- PMP-102 SUMP PUMP
- EDR-102 ELECTRIC DISCRETE MODULATING VALVE
- FE-102 MAGNETIC FLOW METER 0-16 MGD 24"
- PE-112 PRESSURE TRANSMITTER 0-150 PSIG
- PE-103 PRESSURE SWITCH 0-150 PSIG
- LE-112 LEVEL FLOAT SWITCH HIGH 2.5 FT
- LE-104 CAPACITANCE FT
- PE-104 PRESSURE SWITCH 0-150 PSIG

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CHECKED
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DATE
NOVEMBER 2025



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COLLIER COUNTY
NORTHEAST WRF/WTP -DIW CONVEYANCE
INSTRUMENTATION
INJECTION WELLS P&ID

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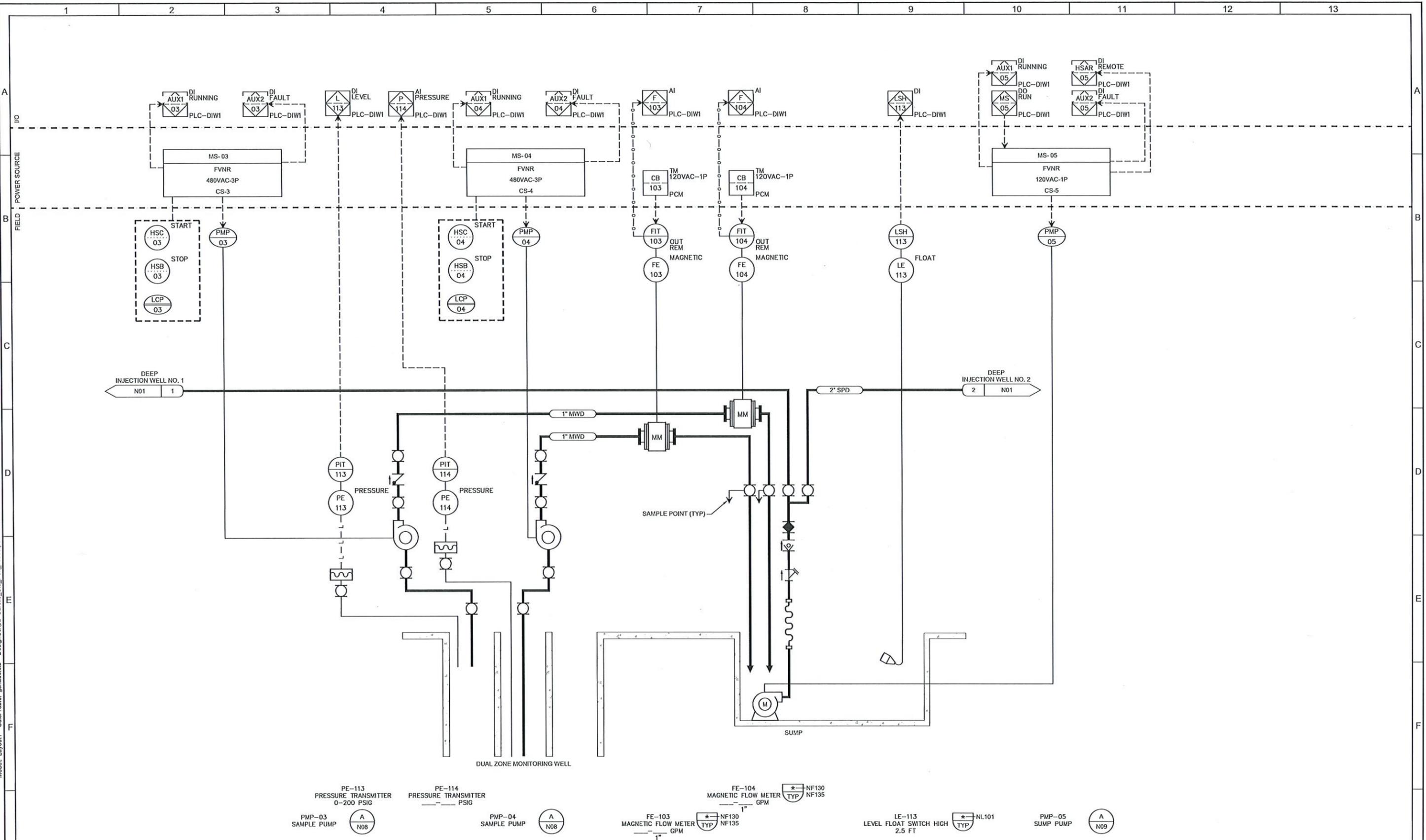
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MLamb



PE-113
PRESSURE TRANSMITTER
0-200 PSIG

PMP-03
SAMPLE PUMP

PE-114
PRESSURE TRANSMITTER
0-200 PSIG

PMP-04
SAMPLE PUMP

FE-104
MAGNETIC FLOW METER
1" GPM

FE-103
MAGNETIC FLOW METER
1" GPM

LE-113
LEVEL FLOAT SWITCH HIGH
2.5 FT

PMP-05
SUMP PUMP

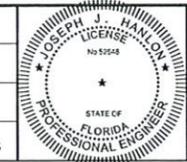
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COLLIER COUNTY

NORTHEAST WRF/WTP -DIW CONVEYANCE

INSTRUMENTATION

MONITORING WELL P&ID

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71261.10

DRAWING NO.
00N02

SHEET NO.
46 OF 62

Plot Date: 07-NOV-2025 8:13:39 AM

User: svePW

Model: Layout1

ColorTable: gshade.ctb DesignScript: Carollo_Std_Pen_v0905.pen PlotScale: 1:1

LAST SAVED BY: broopkon

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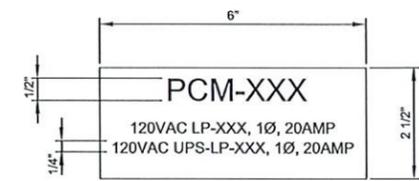
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GENERAL NOTES:

1. PROVIDE LABEL INDICATING INTEGRATOR'S LOGO WITH COMPANY NAME AND ADDRESS MOUNTED ON THE FRONT OF THE ENCLOSURE.
2. FOLLOW ALL UL 508 AND 508A SUPPLEMENT SB TO DETERMINE SHORT CIRCUIT RATINGS.
3. SECURE ENCLOSURE TO UNISTRUT FOLLOWING MANUFACTURER'S RECOMMENDATIONS. ADHERE TO ALL SEISMIC INSTALLATION REQUIREMENTS FOR THE APPROPRIATE LOCATIONS.
4. ENCLOSURE TO HAVE SUNSHIELDS ON TOP, SIDES AND FRONT. ENCLOSURE AND SUNSHIELDS TO BE POWDER COATED WHITE.
5. ENCLOSURE TO HAVE ONE QUARTER LATCHES, PADLOCK HANDLE KIT, MOUNTING BRACKET, AND STAND OFF KIT.
6. FOLLOW HURRICANE WIND REQUIREMENTS WHEN MOUNTING PANEL.
7. PANELS SHOULD BE BONDED TO A VERIFIED GROUNDING RING.
8. TYPICAL OF PCM-DIW1 AND PCM-DIW2.

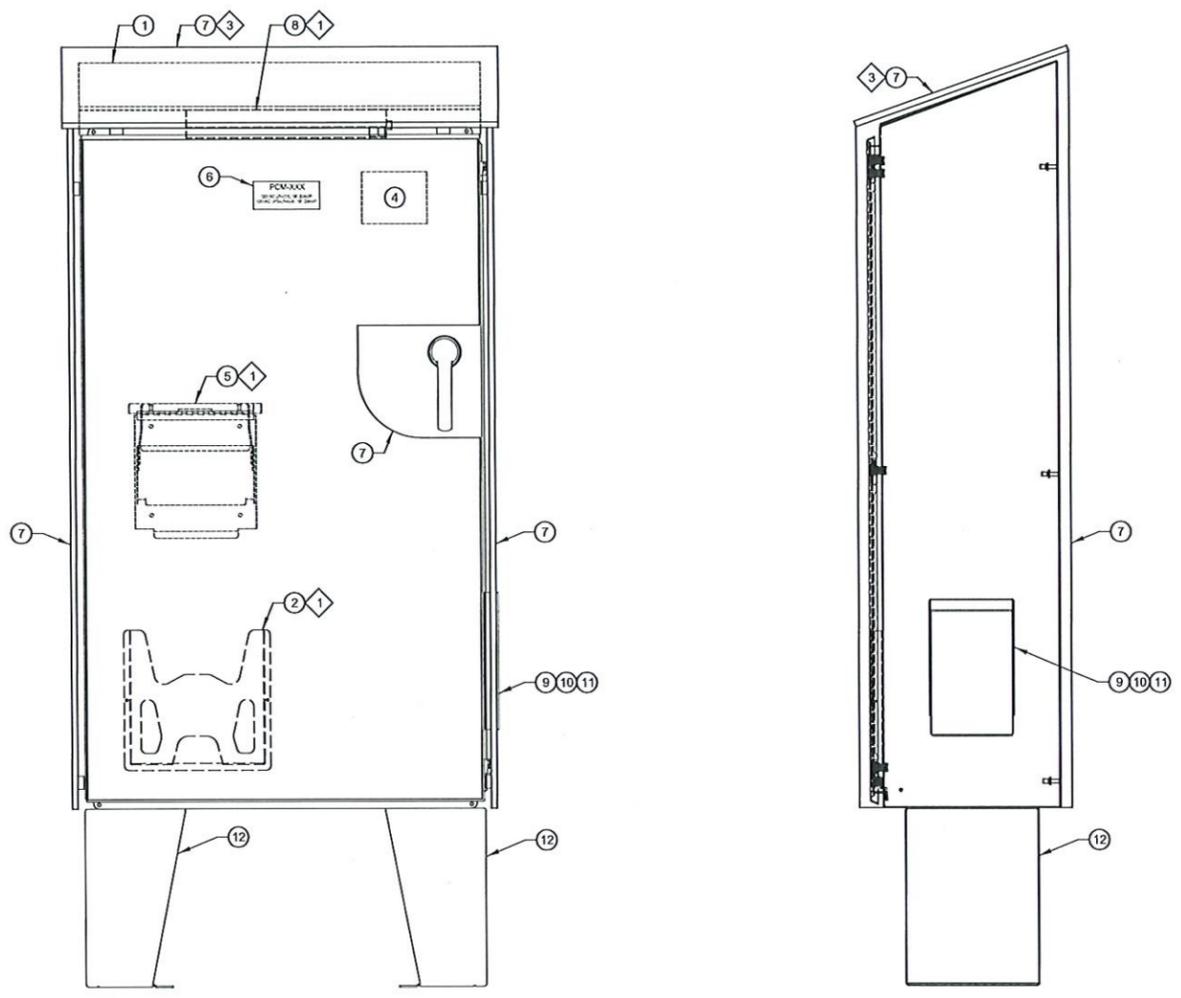
KEY NOTES:

1. LOCATED INSIDE DOOR.
2. THE TOP SUN SHIELD SHOULD BE SIZED SO THAT IT DIVERTS WATER AWAY FROM THE TOP OF THE PANEL.



NAMEPLATE DETAIL

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FILE: 712611002N601



EXTERNAL FRONT ELEVATION

SCALE: NO SCALE
FILE: 712611002N601

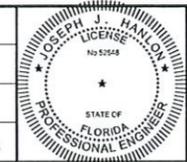
EXTERNAL SIDE ELEVATION

SCALE: NO SCALE
FILE: 712611002N601

MAJOR EQUIPMENT SCHEDULE	
ITEM	DESCRIPTION
1	HOFFMAN WS603616SS ENCLOSURE, NEMA 4X, 316 SS UNISTRUT MOUNTED. APPROXIMATELY 60"x36"x16" WITH SUNSHIELDS, POWDER COATED WHITE.
2	DATA POCKET
3	NOT USED
4	NAMEPLATE
5	FOLDING SHELF
6	NAMEPLATE
7	SUN SHEILD
8	HOFFMAN LIGHT KIT ALF16M24R
9	6" FANS
10	NEMA 4/4X FILTER FAN SHROUDS HH05SS0400X
11	HOFFMAN FILTER FAN SHROUD PEST SCREENS HH05PS004
12	HOFFMAN FLOOR STAND KIT AFK2424SS

REV	DATE	BY	DESCRIPTION
1	10/25	RC	BID SET

DESIGNED
JHJ
DRAWN
MNH
CHECKED
AMA
DATE
NOVEMBER 2025



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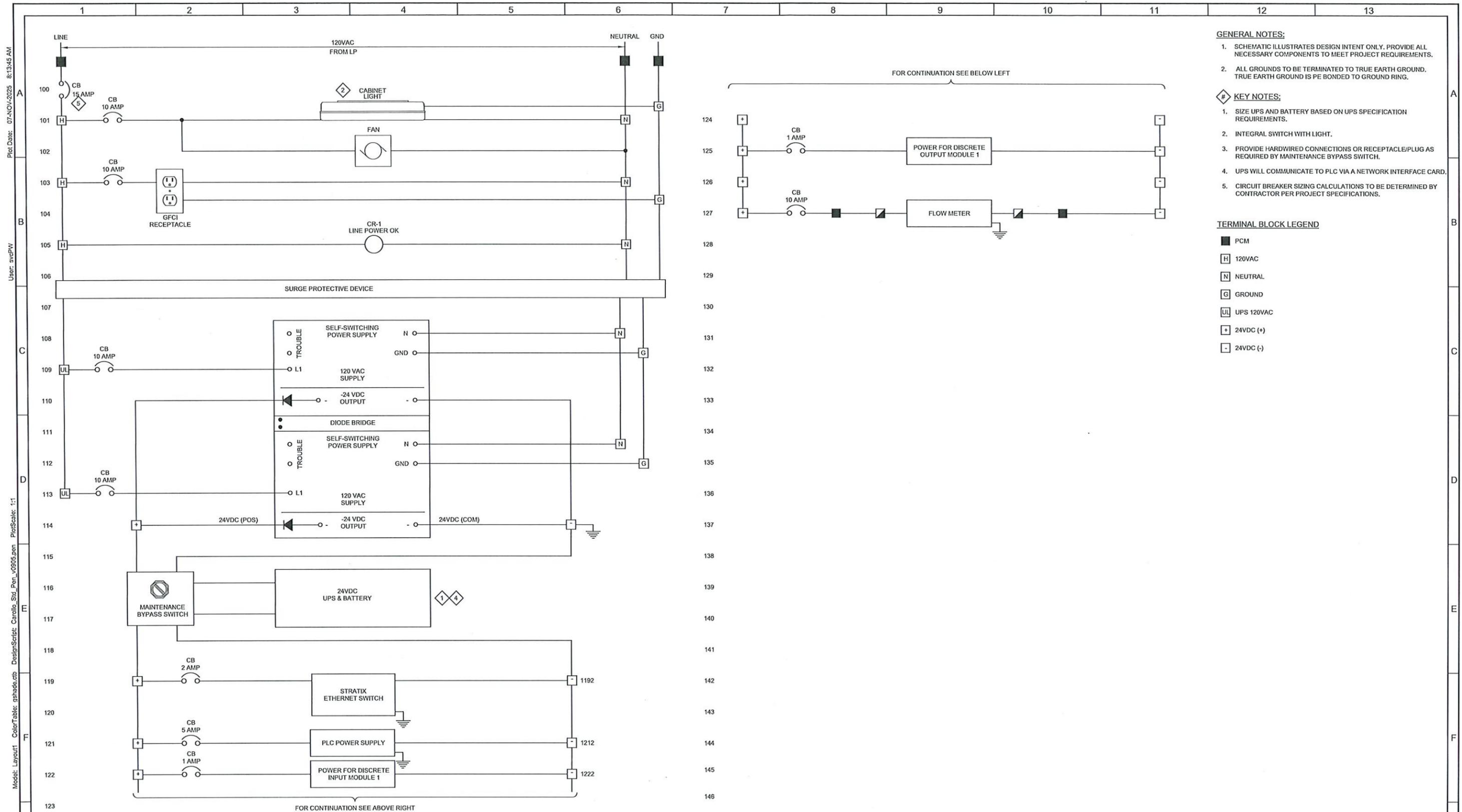
Carollo
301 North Cattlemen Road, Suite 302
Sarasota, FL 34232
Phone: 941-371-9832
CA No. 00008571

Collier County

COLLIER COUNTY
NORTHEAST WRF/WTP -DIW CONVEYANCE
INSTRUMENTATION
PLC ENCLOSURE DETAIL

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

JOB NO.
71261.10
DRAWING NO.
00N03
SHEET NO.
47 OF 62



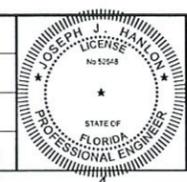
- GENERAL NOTES:**
1. SCHEMATIC ILLUSTRATES DESIGN INTENT ONLY. PROVIDE ALL NECESSARY COMPONENTS TO MEET PROJECT REQUIREMENTS.
 2. ALL GROUNDS TO BE TERMINATED TO TRUE EARTH GROUND. TRUE EARTH GROUND IS PE BONDED TO GROUND RING.
- KEY NOTES:**
1. SIZE UPS AND BATTERY BASED ON UPS SPECIFICATION REQUIREMENTS.
 2. INTEGRAL SWITCH WITH LIGHT.
 3. PROVIDE HARDWIRED CONNECTIONS OR RECEPTACLE/PLUG AS REQUIRED BY MAINTENANCE BYPASS SWITCH.
 4. UPS WILL COMMUNICATE TO PLC VIA A NETWORK INTERFACE CARD.
 5. CIRCUIT BREAKER SIZING CALCULATIONS TO BE DETERMINED BY CONTRACTOR PER PROJECT SPECIFICATIONS.

- TERMINAL BLOCK LEGEND**
- PCM
 - [H] 120VAC
 - [N] NEUTRAL
 - [G] GROUND
 - [UL] UPS 120VAC
 - [+] 24VDC (+)
 - [-] 24VDC (-)

1 CABINET POWER DISTRIBUTION PANEL

1	10/25	RC	BID SET
REV	DATE	BY	DESCRIPTION

DESIGNED	JJH
DRAWN	MNH
CHECKED	AMA
DATE	NOVEMBER 2025



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 NORtheast WRF/WTP -DIW CONVEYANCE
 INSTRUMENTATION
 PLC CONTROL WIRING DETAIL

VERIFY SCALES	JOB NO.
BAR IS ONE INCH ON ORIGINAL DRAWING	71261.10
0 1"	DRAWING NO.
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	00N04
	SHEET NO.
	48 OF 62

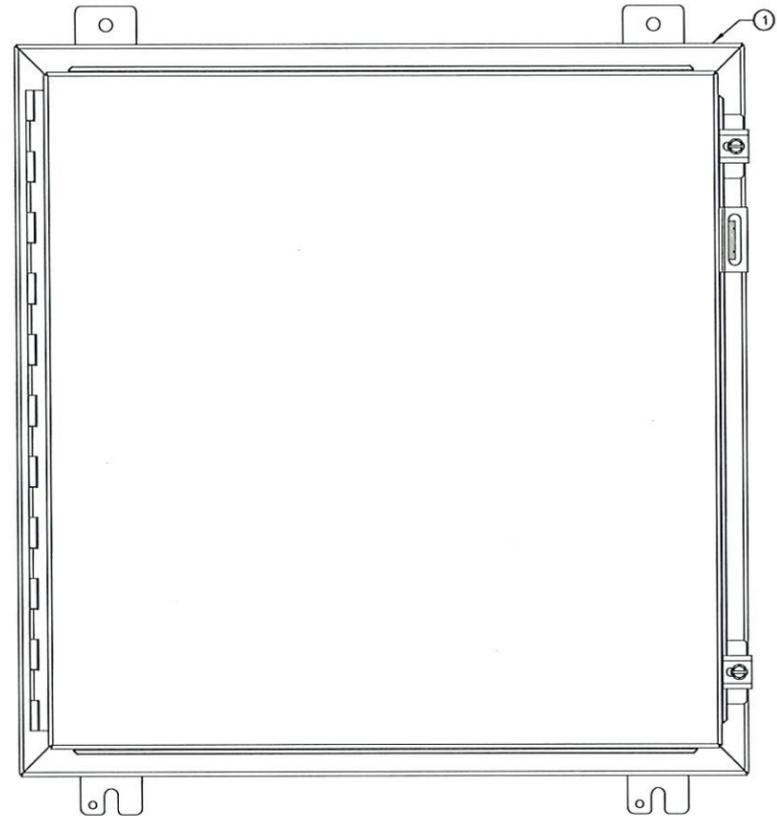
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User: svePW
Modid: Layout1
ColorTable: gshade.cb
DesignScript: Carollo_Std_Pen_v0805.pen
PlotScale: 1:1

LAST SAVED BY: broopken

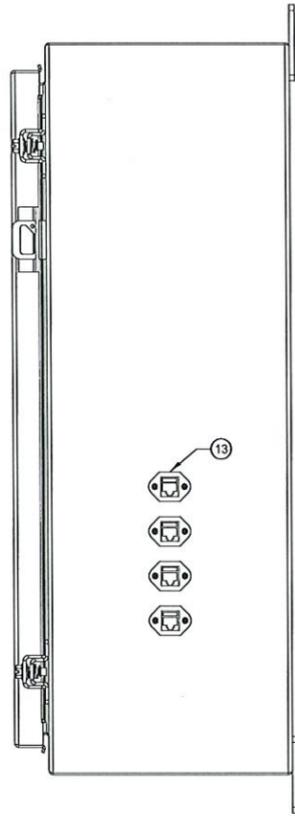
GENERAL NOTES:

1. DRAWING ILLUSTRATES DESIGN INTENT ONLY. PROVIDE ALL NECESSARY COMPONENTS TO MEET PROJECT REQUIREMENTS.
2. DIMENSIONS AND LAYOUT SHOWN ON DRAWING FOR CONCEPTUAL DESIGN INTENT. ALL FINAL DIMENSIONS AND LAYOUT MUST BE FIELD VERIFIED BY CONTRACTOR PRIOR TO SUBMITTAL AND FABRICATION OF EQUIPMENT.



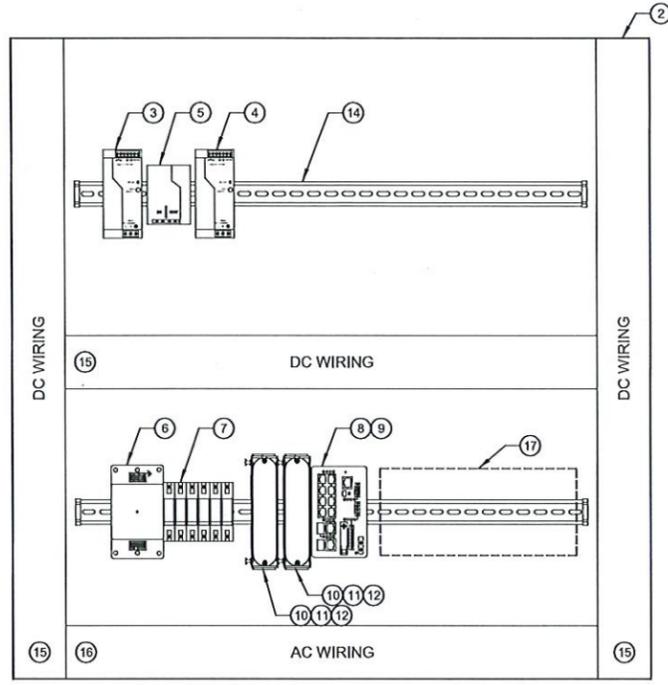
EXTERNAL ELEVATION - FRONT

SCALE: NO SCALE
FILE:



EXTERNAL ELEVATION - SIDE

SCALE: NO SCALE
FILE:



INTERNAL ELEVATION

SCALE: NO SCALE
FILE:

MAJOR EQUIPMENT SCHEDULE				
ITEM	DESCRIPTION	MANUFACTURER	MODEL	QUANTITY
1	ENCLOSURE, NEMA 12, WALL MOUNTED	HOFFMAN	363612	1
2	BACK PANEL	HOFFMAN	3636	1
3	24VDC POWER SUPPLIES			1
4	24VDC POWER SUPPLY REDUNDANCY MODULE			1
5	DIODE BRIDGE			1
6	PANEL SURGE PROTECTOR	EDCO	HSP12BT1RU	1
7	120 VAC CIRCUIT BREAKERS			6
8	ETHERNET SWITCH	ROCKWELL	1783-BMS10CGA	1
9	SFP	CISCO	GLC-GE-100FX	4
10	FIBER CONNECTOR HOUSING	CORNING	SPH-01P	1
11	CLOSET CONNECTOR ASSEMBLY	CORNING	CCH-CP12-91	1
12	DIN RAIL BRACKET FOR SINGLE-PANEL HOUSING	CORNING	SPH-DIN-KIT	1
13	PANEL MOUNT ETHERNET RJ45 CAT-6			4
14	DIN RAIL			2
15	WHITE WIRE DUCT			
16	GRAY WIRE DUCT			
17	UPS			

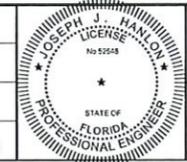
REV	DATE	BY	DESCRIPTION
1	10/25	RC	BID SET

DESIGNED
JJH

DRAWN
AAW

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AMA

DATE
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Collier County

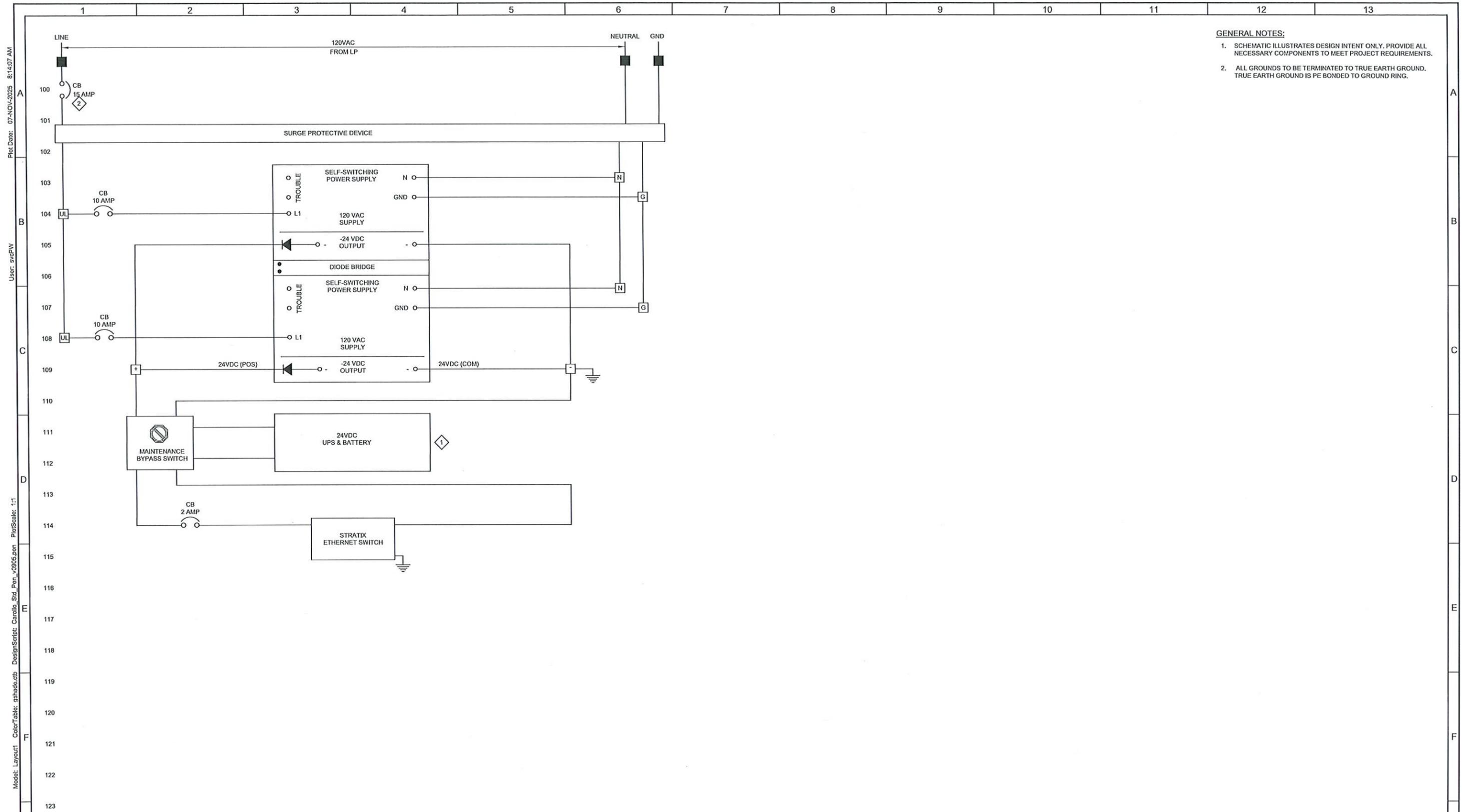
COLLIER COUNTY
NORTHEAST WRF/WTP -DIW CONVEYANCE
INSTRUMENTATION
DIW NETWORK
CABINET DETAIL

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"

JOB NO.
71261.10

DRAWING NO.
00N05

SHEET NO.
49 OF 62



- GENERAL NOTES:**
1. SCHEMATIC ILLUSTRATES DESIGN INTENT ONLY. PROVIDE ALL NECESSARY COMPONENTS TO MEET PROJECT REQUIREMENTS.
 2. ALL GROUNDS TO BE TERMINATED TO TRUE EARTH GROUND. TRUE EARTH GROUND IS PE BONDED TO GROUND RING.

2 CABINET POWER DISTRIBUTION PANEL
N05

REV	DATE	BY	DESCRIPTION
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DATE NOVEMBER 2025	

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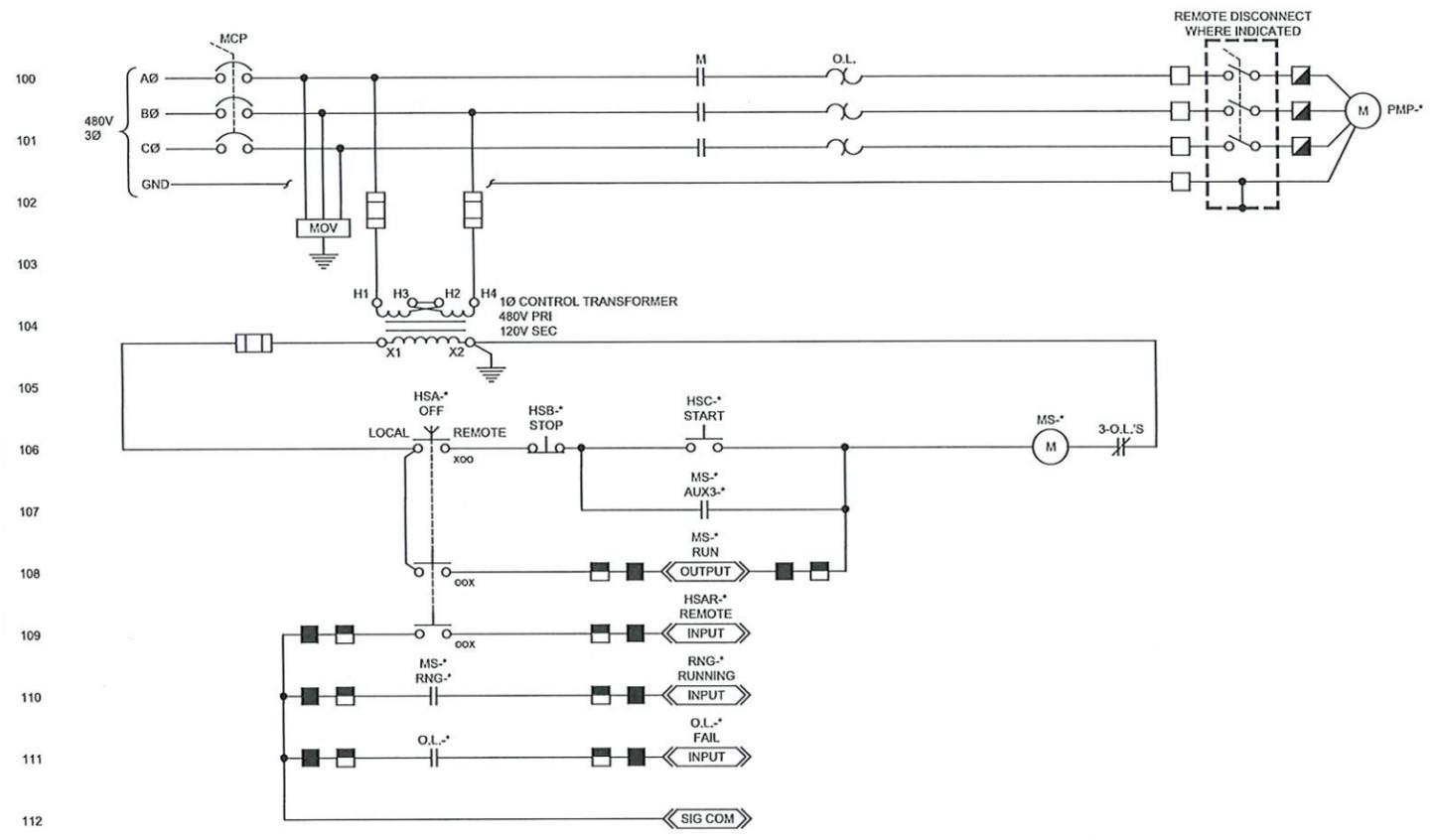
Collier County

COLLIER COUNTY
NORTHEAST WRF/WTP -DIW CONVEYANCE
INSTRUMENTATION
DIW NETWORK CABINET WIRING DETAIL

VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING 0 1"	JOB NO. 71261.10
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	DRAWING NO. 00N06
	SHEET NO. 50 OF 62

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 Model: Layout1
 ColorTable: qshado.ctb
 DesignScript: Carollo_Stu_Pem_v0905.pon
 PlotScale: 1:1
 LAST SAVED BY: broopkon

GENERAL NOTES:
 1. SCHEMATIC ILLUSTRATES DESIGN INTENT ONLY. PROVIDE ALL NECESSARY COMPONENTS TO MEET PROJECT REQUIREMENTS.



3 DIW SUMP PUMPS
 ● N01

REV	DATE	BY	DESCRIPTION
1	10/25	RC	BID SET

DESIGNED J J H	
DRAWN T C D	
CHECKED A M A	
DATE NOVEMBER 2025	

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Collier County

COLLIER COUNTY
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 INSTRUMENTATION
**DIW SUMP PUMPS
 CONTROL SCHEMATIC**

VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING 0 1"	JOB NO. 71261.10
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	DRAWING NO. 00N07
	SHEET NO. 51 OF 62

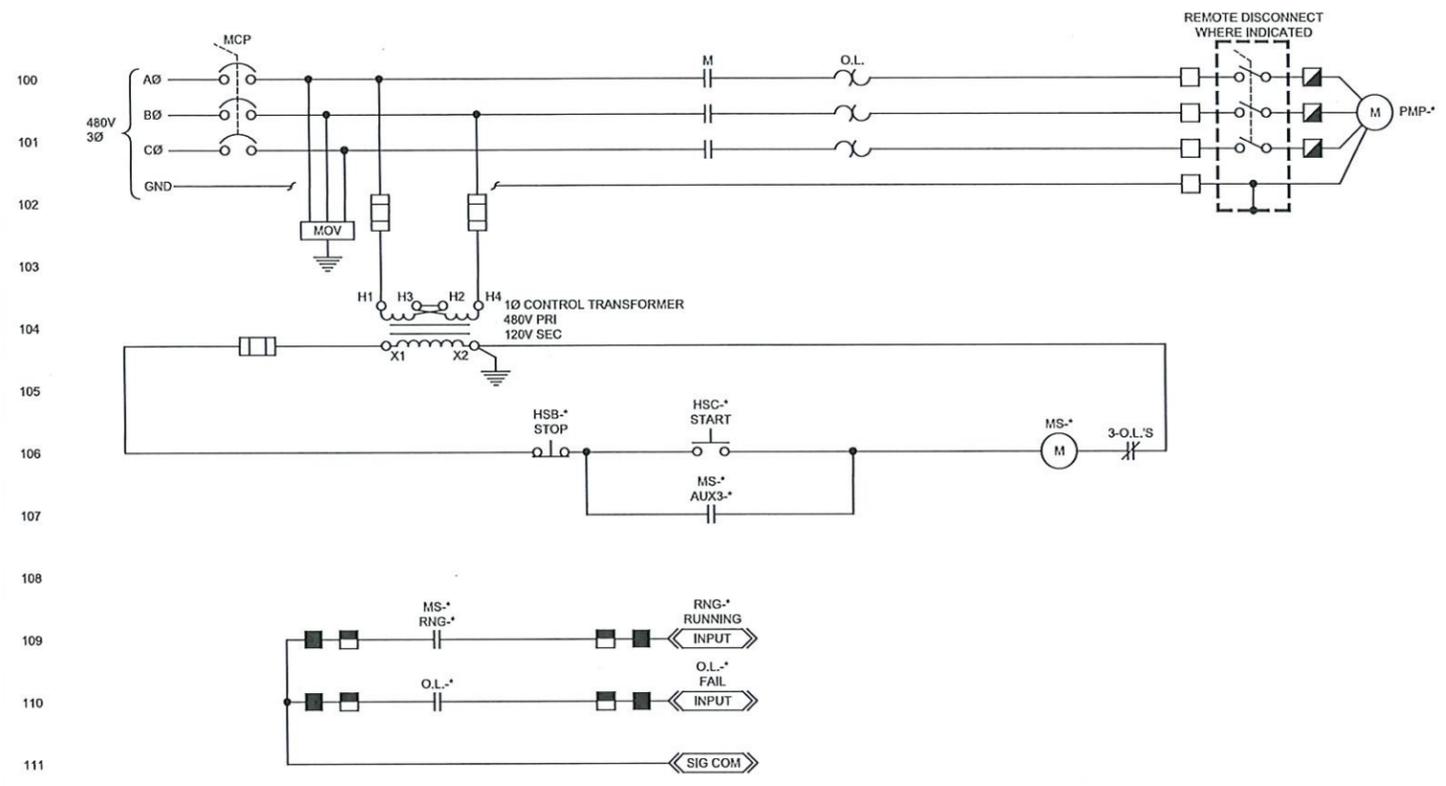
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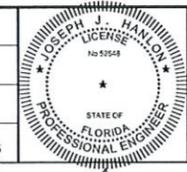
GENERAL NOTES:
1. SCHEMATIC ILLUSTRATES DESIGN INTENT ONLY. PROVIDE ALL NECESSARY COMPONENTS TO MEET PROJECT REQUIREMENTS.



4 MONITORING WELL PUMPS
● N02

REV	DATE	BY	DESCRIPTION
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DATE	NOVEMBER 2025



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INSTRUMENTATION
MONITORING WELL PUMPS
CONTROL SCHEMATIC

VERIFY SCALES	JOB NO. 71261.10
BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO. 00N08
0 1"	SHEET NO. 52 OF 62
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	

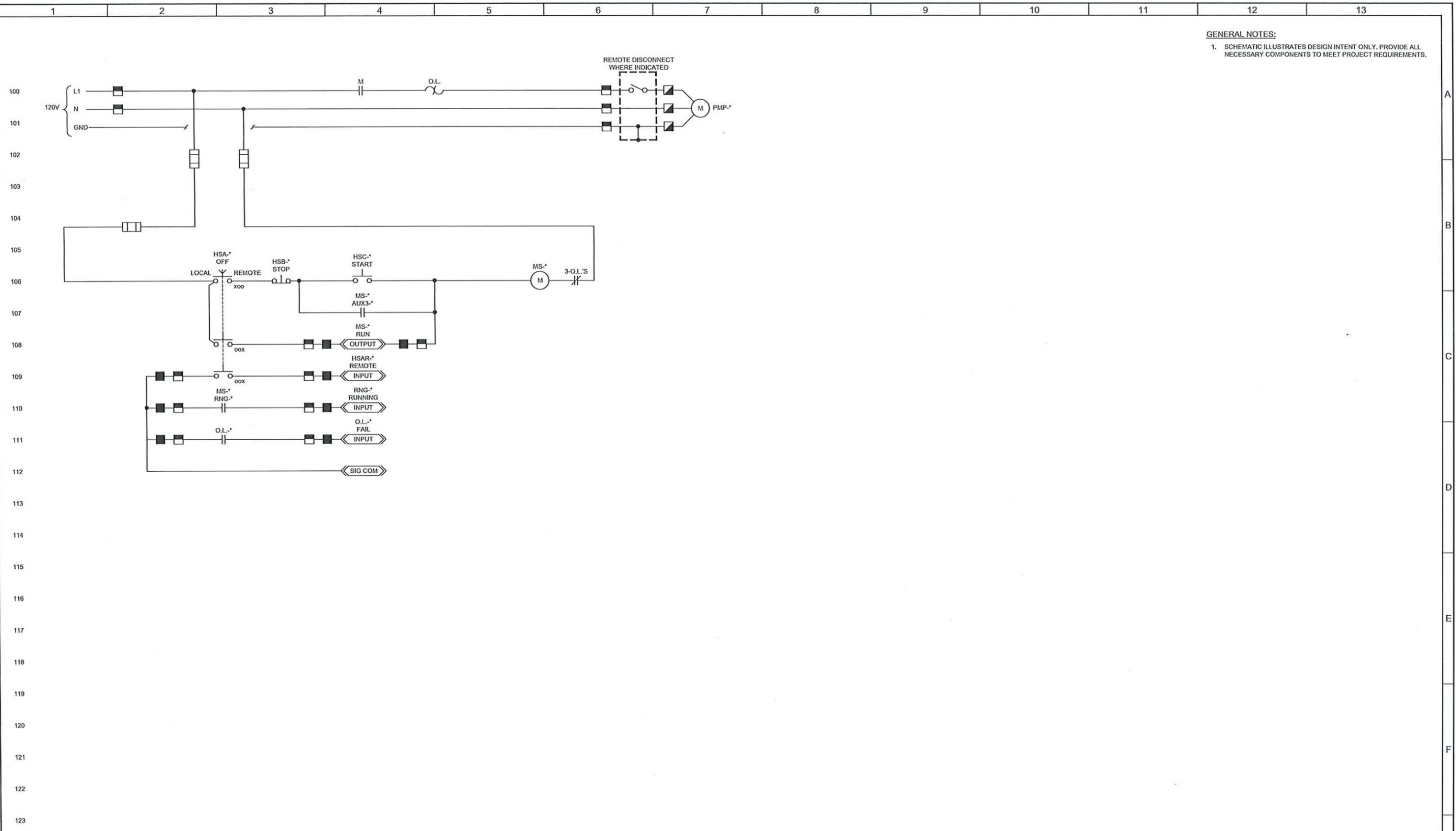
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LAST SAVED BY: broopken

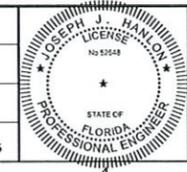
GENERAL NOTES:
 1. SCHEMATIC ILLUSTRATES DESIGN INTENT ONLY. PROVIDE ALL NECESSARY COMPONENTS TO MEET PROJECT REQUIREMENTS.



5 SUMP PUMP
 N02

REV	DATE	BY	DESCRIPTION
1	10/25	RC	BID SET

DESIGNED
J J H
 DRAWN
T C D
 CHECKED
A M A
 DATE
NOVEMBER 2025



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COLLIER COUNTY
 NORTHEAST WRF/WTP -DIW CONVEYANCE
 INSTRUMENTATION
 SINGLE PHASE SUMP PUMP
 CONTROL SCHEMATIC

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

JOB NO.
71261.10
 DRAWING NO.
00N09
 SHEET NO.
53 OF 62

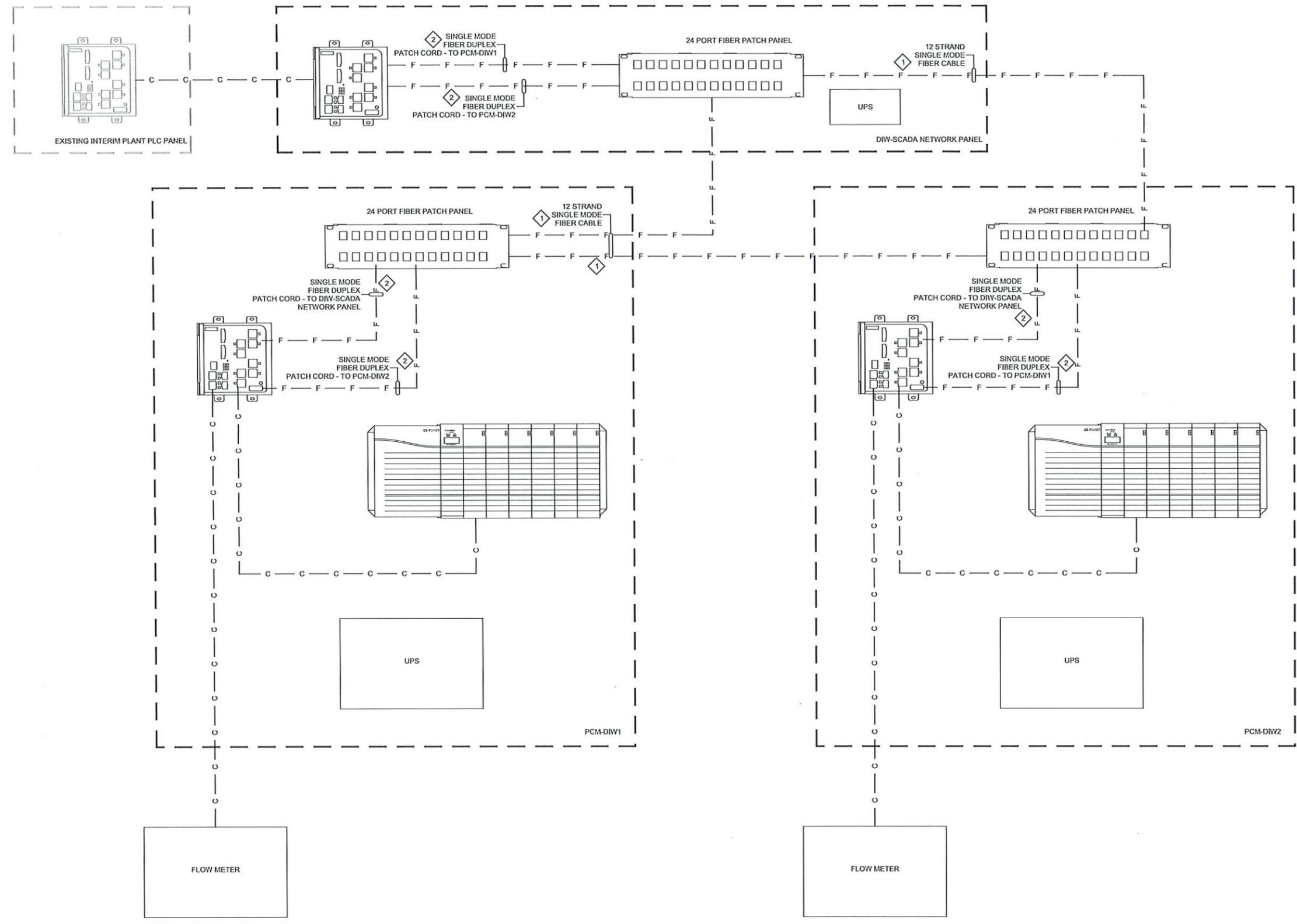
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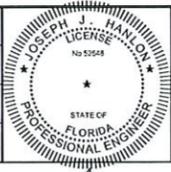
LAST SAVED BY: broopkon

- # KEY NOTES:
- OS2 9/125 SINGLE MODE 12 STRAND FIBER CABLE.
 - 9/125 SINGLE MODE DUPLEX LC/SC PATCH CORD.
 - COMPLETE FIBER RING BETWEEN PANELS AND CONFIGURE/SETUP REP (RESILIENT ETHERNET PROTOCOL).



REV	DATE	BY	DESCRIPTION
1	10/25	RC	BID SET

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COLLIER COUNTY
NORTHEAST WRF/WTP -DIW CONVEYANCE
INSTRUMENTATION
NETWORK BLOCK DIAGRAM

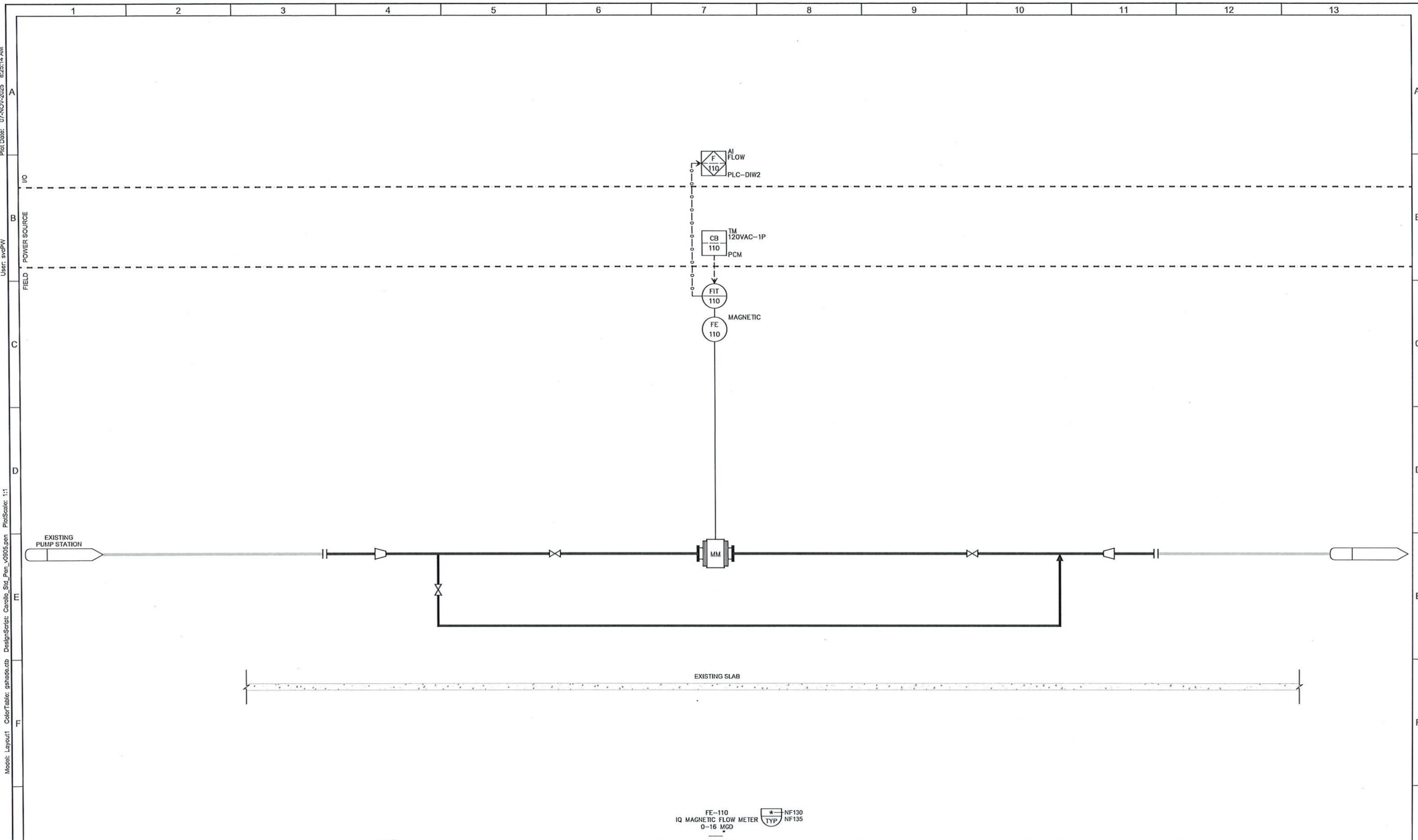
VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING 0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	JOB NO. 71261.10 DRAWING NO. 03N01 SHEET NO. 54 OF 62
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Plot Date: 07-NOV-2025 8:25:14 AM

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clmada

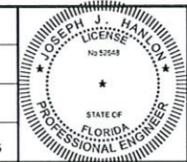


FE-110
IQ MAGNETIC FLOW METER
0-16 MGD

NF130
NF135

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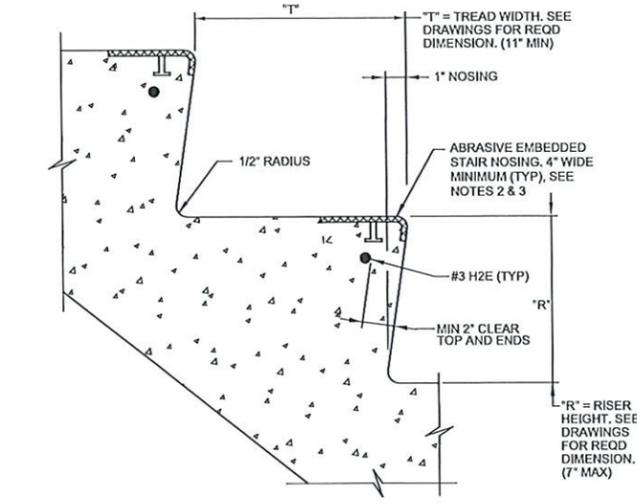


COLLIER COUNTY
NORTHEAST WRF/WTP -DIW CONVEYANCE
INSTRUMENTATION
IQ DEEP INJECTION WELL
METERING STATION P&ID

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

JOB NO.
71261.10
DRAWING NO.
10N01
SHEET NO.
55 OF 62

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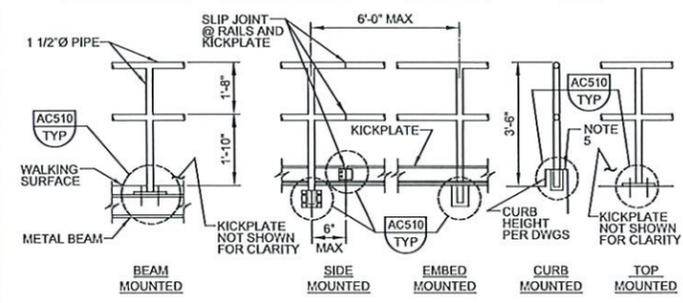
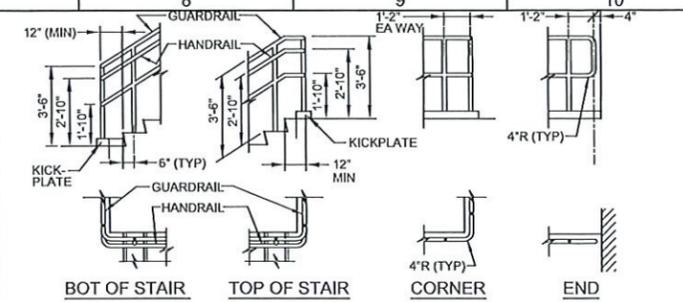


- NOTES:**
- ANY FASTENERS FOR THE STAIR NOSING SHALL BE TYPE 304 OR 316 SST.
 - PROVIDE 4" BETWEEN END OF STAIR NOSING AND EDGE OF CONCRETE STEP. EMBEDDED STUD FOR STAIR NOSING SHOULD BE NO CLOSER THAN 6" FROM END OF THE STEP.
 - TOOL A GROOVE, 1/8" WIDE BY FULL WIDTH AND THICKNESS OF EMBEDDED NOSING, AT EACH END OF NOSING INCLUDING VERTICAL FACE AT RISER. FILL GROOVE WITH SYNTHETIC RUBBER SEALING COMPOUND.

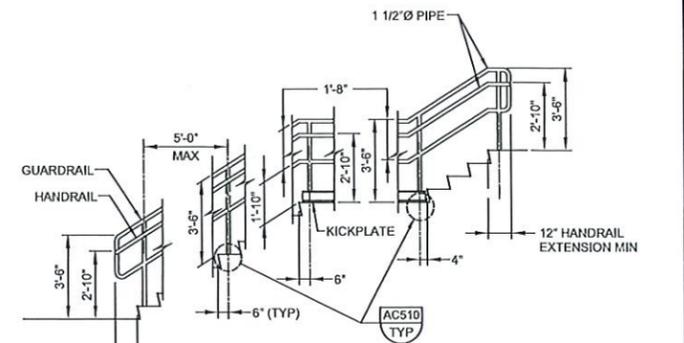
AC146 STAIRS - CONCRETE - STEP
TYP

- NOTES:**
- PROVIDE GUARDRAILS AT STAIRS AND AT OPEN SIDED WALKING SURFACES THAT ARE ELEVATED MORE THAN 30" ABOVE GRADE OR ADJACENT CONSTRUCTION.
 - WHERE EQUIPMENT IS LOCATED LESS THAN 10' FROM EDGE OF ROOF AND ELEVATED MORE THAN 30" ABOVE GRADE OR ADJACENT CONSTRUCTION, PROVIDE 42" HIGH GUARDRAIL FORMING A PROTECTIVE BARRIER. PARAPET WALL 42" OR MORE IN HEIGHT MAY BE THE GUARDRAIL AT ROOF LOCATIONS.
 - SEE DRAWINGS AND SPECIFICATIONS FOR GUARDRAIL MATERIAL TYPE(S).
 - PROVIDE HANDRAIL AT BOTH SIDES OF EVERY STAIR HAVING 2 OR MORE RISERS.
 - PROVIDE CONTINUOUS HANDRAIL GRIPPING SURFACES FOR THE FULL LENGTH OF THE STAIR.
 - PROVIDE HANDRAIL EXTENSIONS AT BOTH SIDES OF STAIRS AT TOP AND BOTTOM. HANDRAIL EXTENSION ON STAIR MOUNTED GUARDRAIL MAY BE OMITTED WHERE IT IS PERPENDICULAR TO AND IMPEDES EXIT FLOW.
 - MAKE INSIDE HANDRAIL ON SWITCHBACK STAIRS CONTINUOUS.
 - FOR WALL MOUNTED HANDRAILS, PROVIDE SINGLE RAIL WITH TOP OF RAIL AT 2'-10" HEIGHT ABOVE LANDINGS OR TREAD NOSINGS. PROVIDE MATCHING HANDRAIL ON OPPOSITE SIDE.
 - GUARDRAIL SHALL BE FIXED UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
 - PLACE CENTER OF EMBEDDED POSTS 6" FROM EDGE OF CONCRETE AND 6" FROM FRONT EDGE OF CONCRETE STAIR NOSINGS UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
 - PLACE GUARDRAIL POSTS OPPOSITE EACH OTHER WHERE RAILINGS ARE PARALLEL.
 - FOR GUARDRAIL POSTS MOUNTED TO BEAM OR STAIR CHANNEL, PROVIDE MANUFACTURERS REINFORCED CONNECTION FROM POST TO PLATE. PLATE AND REINFORCED INSERTS SHALL BE ALUMINUM OR STAINLESS STEEL.
 - PROVIDE SLIDING JOINTS AT 24" MAX SPACING FOR EXPANSION OF RAIL AND KICKPLATE. LOCATE SLIDING JOINTS NEAR FACE OF POST. GAP AT TIME OF INSTALLATION SHALL BE BASED ON TEMPERATURE OF GUARDRAIL. PROVIDE 1/4" GAP AT 100°F AND 5/8" GAP AT 0°F. INTERPOLATE GAP FOR OTHER INSTALLATION TEMPERATURES. AT CONCRETE EXPANSION JOINTS, PROVIDE MINIMUM 1" GAP IN SLIDING JOINTS BUT NOT LESS THAN WIDTH OF CONCRETE EXPANSION JOINT. MAKE INSERT SLEEVES IN RAILS LONG ENOUGH TO ALLOW FOR THE FULL RANGE OF MOVEMENT.
 - MATERIAL FOR KICKPLATE CHANNEL SLIDING JOINT PLATES, SHALL BE OF THE SAME MATERIAL AS THE GUARDRAIL.
 - JOINTS FOR STAINLESS STEEL GUARDRAIL AND HANDRAIL SHALL BE COPED, WELDED, AND GROUND SMOOTH.
 - PROVIDE KICKPLATE AT ALL LOCATIONS EXCEPT AT SLOPING GUARDRAIL ON STAIRS AND WHERE GUARDRAIL IS MOUNTED ON A 4" MIN CURB. KICKPLATE MAY BE EXTRUDED OR BENT PLATE AND SHALL BE ATTACHED WITH SST BOLTS IN 5/16" x 3/4" SLOTTED HOLES. BOLT KICKPLATE TO POST WITH BOTTOM 1/4" CLEAR ABOVE FLOOR. FOR SIDE MOUNTED GUARDRAIL, PROVIDE STANDARD SPACER BLOCK BETWEEN POST AND KICKPLATE TO MAINTAIN 1/4" MAX CLEAR SPACING. HAND TIGHTEN AND CENTER PUNCH BOLT THREADS TO LOCK.
 - COAT SURFACES OF ALUMINUM IN CONTACT WITH CONCRETE AS SPECIFIED. PROVIDE NEOPRENE GASKET BETWEEN ALUMINUM AND STEEL.

AC500 GUARDRAIL - HANDRAIL - NOTES
TYP

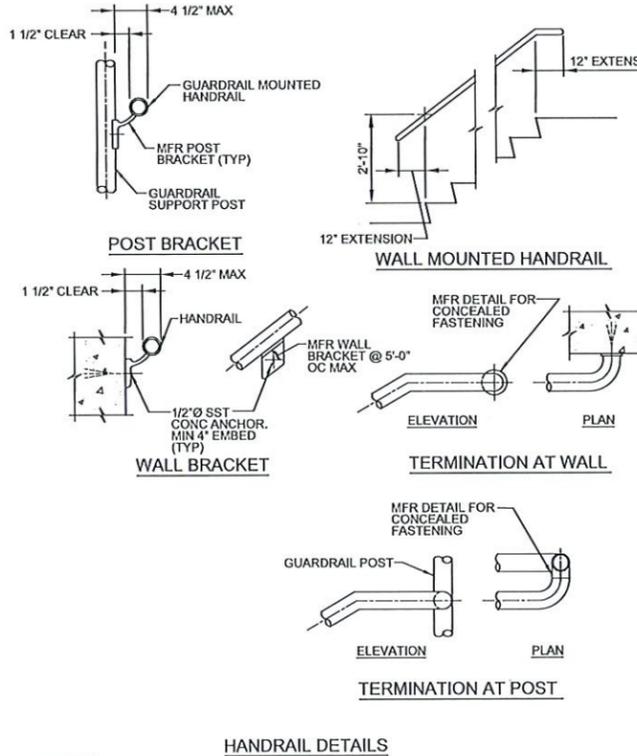


AC502 GUARDRAIL - TWO RAIL
TYP

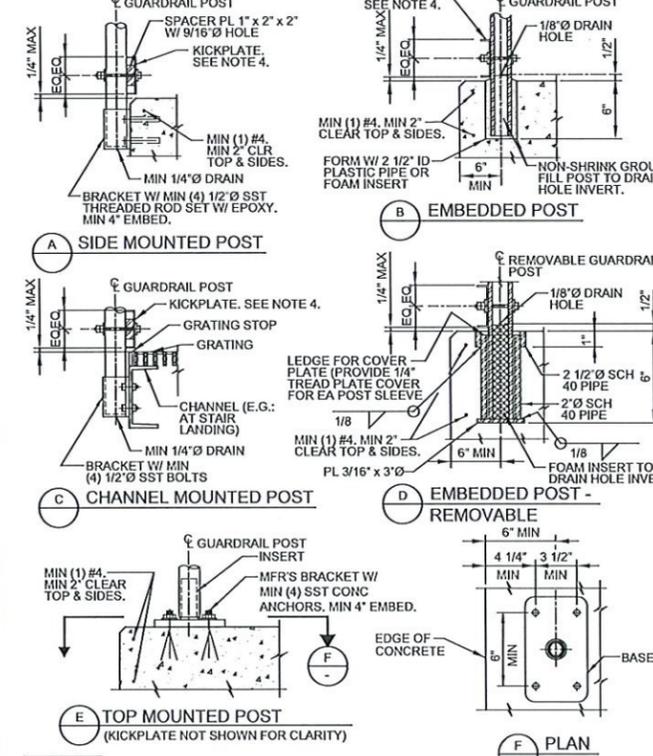


AC502 GUARDRAIL - TWO RAIL
TYP

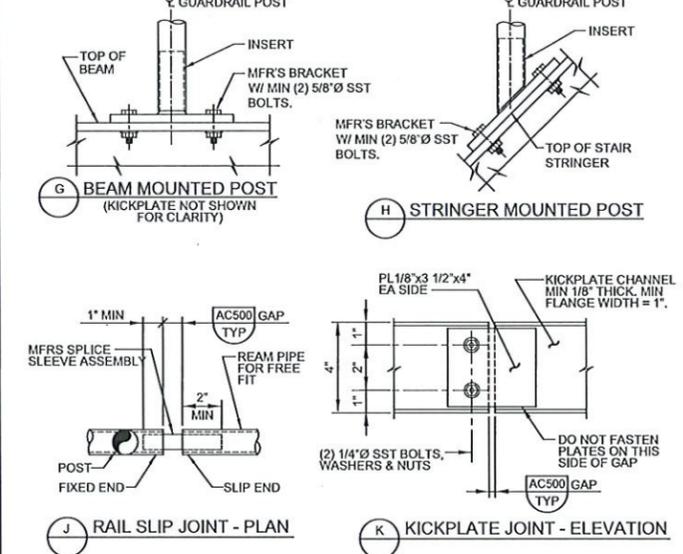
- NOTES:**
- THIS DETAIL IS APPLICABLE AT PRIVATE STAIRS IN F, H, AND S OCCUPANCIES WHERE OPERATOR ONLY ACCESSIBILITY IS REQUIRED. DETAILS AND INSTALLATION SHALL COMPLY WITH THE BUILDING CODE.
 - SEE SPECIFICATIONS AND DETAIL AC500/TYP FOR ADDITIONAL REQUIREMENTS.
 - VARIOUS POST MOUNTING DETAILS ARE ILLUSTRATED. SEE DRAWINGS AND DETAIL AC510/TYP FOR SPECIFIC MOUNTING REQUIREMENTS.
 - HANDRAIL EXTENSIONS ARE REQUIRED AT BOTH SIDES OF STAIR, EXCEPT WHERE INSIDE HANDRAIL IS CONTINUOUS AT SWITCHBACK STAIR.
 - AT CURB, USE EMBEDDED OR TOP MOUNTED POST AS INDICATED ON THE DRAWINGS.



AC502 GUARDRAIL - TWO RAIL
TYP



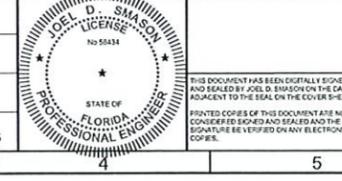
AC510 GUARDRAIL - MOUNTING
TYP



- NOTES:**
- FOR ADDITIONAL REQUIREMENTS, SEE DETAIL AC500/TYP.
 - SEE DRAWINGS FOR MATERIAL TYPES.
 - COAT ALUMINUM SURFACES IN CONTACT WITH CONCRETE OR DISSIMILAR METALS AS SPECIFIED.
 - KICKPLATE CONNECTION AT POST: MIN 3/4" HORIZONTAL SLOTTED HOLE IN CHANNEL W/ MIN 1/4" BOLT, PROVIDE WASHER AND DOUBLE NUTS. INSIDE NUT FINGER-TIGHT TO PERMIT EXPANSION AND CONTRACTION.

AC510 GUARDRAIL - MOUNTING
TYP

DESIGNED	DAM
DRAWN	KRJ
CHECKED	JDS
DATE	NOVEMBER 2025



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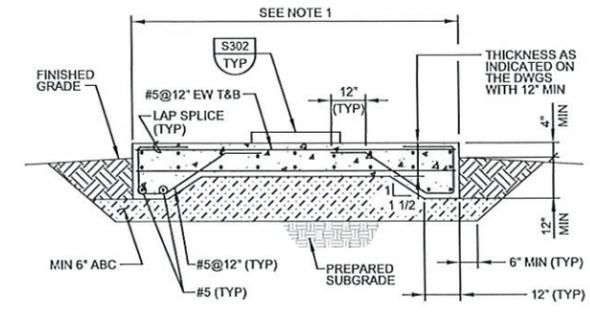
Carollo
301 North Cattleman Road, Suite 302
Sarasota, FL 34232
Phone: 941-371-9832
CA No. 00008571

Collier County

COLLIER COUNTY
NORTHEAST WRF/WTP -DIW CONVEYANCE
TYPICAL DETAILS
ARCHITECTURAL 1

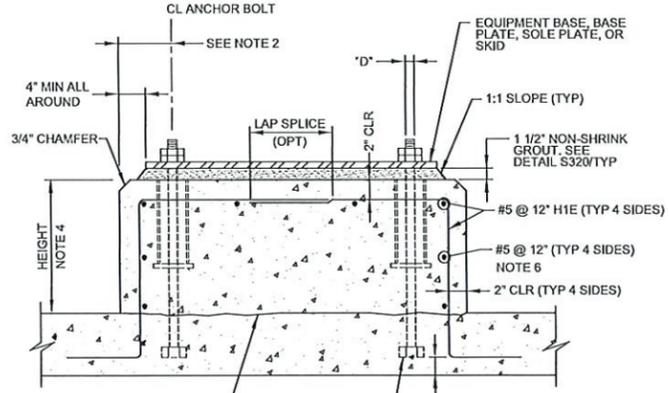
VERIFY SCALES	JOB NO. 71261.10
BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO. TA01
0 1" SCALE	SHEET NO. 56 OF 62

Plot Date: 06-NOV-2025 4:58:02 PM
 User: snc@w
 Model: Layout1
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 PlotScale: 1:1
 LAST SAVED BY: ancaro



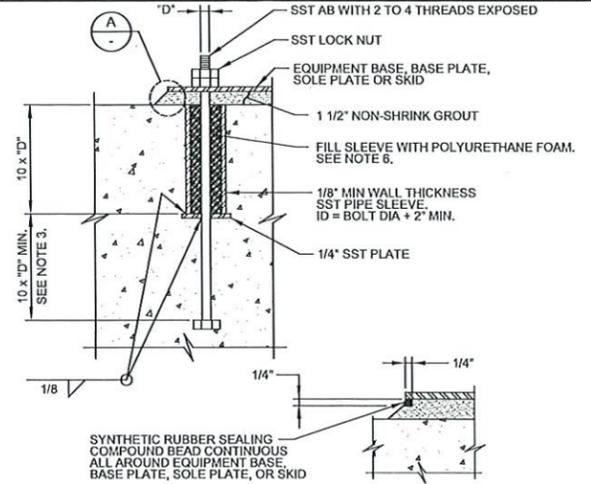
NOTE:
1. DIMENSIONS AS REQUIRED TO SUIT EQUIPMENT OR AS INDICATED ON THE DRAWINGS.

S300 EQUIPMENT SLAB
TYP
S 12/15/20



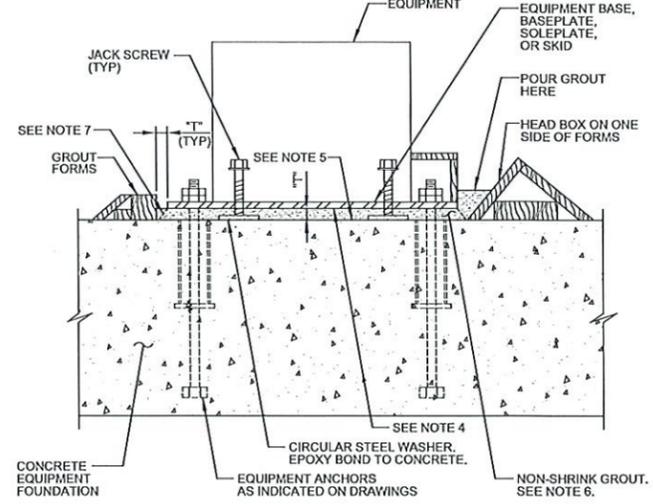
NOTES:
1. "D" = DIAMETER OF ANCHOR BOLT.
2. THE EDGE DISTANCE ON THE ANCHOR BOLTS SHALL NOT BE LESS THAN 6" OR 8 x "D".
3. PAD DIMENSIONS AND ANCHOR BOLT SIZE SHALL CONFORM TO EQUIPMENT MANUFACTURER'S REQUIREMENTS.
4. HEIGHT TO SUIT EQUIPMENT FURNISHED OR AS INDICATED ON THE DRAWINGS.
5. WHERE CONCRETE SLAB OR BEAM THICKNESS WILL NOT ACCOMMODATE THE ANCHOR BOLT, PROVIDE EXTRA THICKNESS FOR SLAB OR BEAM.
6. PROVIDE HOOPS OR CORNERS PER DETAIL S144/TYP.

S302 EQUIPMENT BASE
TYP
N 12/29/2017



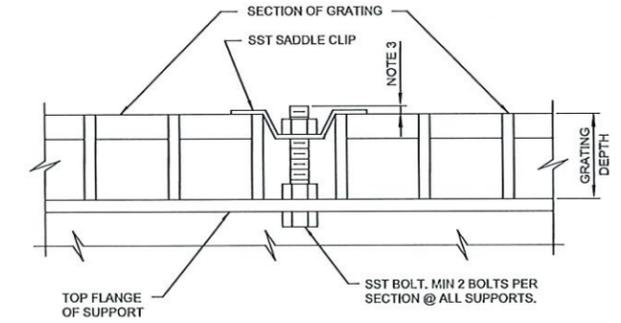
NOTES:
1. "D" = DIAMETER OF ANCHOR BOLT.
2. ANCHOR BOLT DIAMETER AS INDICATED ON THE DRAWINGS, IF NOT INDICATED ON THE DRAWINGS, THE ANCHOR BOLT SIZE SHALL BE AS RECOMMENDED BY THE EQUIPMENT MANUFACTURER.
3. WHERE CONCRETE SLAB OR BEAM THICKNESS WILL NOT ACCOMMODATE THE ANCHOR BOLT, PROVIDE EXTRA THICKNESS OF SLAB OR BEAM.
4. PREFABRICATED PLASTIC ANCHOR BOLT SLEEVE OPTIONAL.
5. DO NOT USE ALL THREAD RODS AS A SUBSTITUTE FOR BOLTS WITH A BOLT HEAD. SMOOTH RODS THREADED AT THE ENDS MAY BE USED IF ACCEPTABLE TO THE ENGINEER. DO NOT WELD NUTS TO THE THREADED RODS.
6. COMPLETELY REMOVE ANY POLYURETHANE FOAM FROM CONCRETE, EQUIPMENT BASE, BASE PLATE, SOLE PLATE, OR SKID, AND ANCHOR BOLTS ABOVE TOP OF CONCRETE.
7. DO NOT USE LEVELING NUTS TO SUPPORT AND LEVEL EQUIPMENT BASE, BASE PLATE, SOLE PLATE, OR SKID.

S310 ANCHOR BOLT - EMBED AND SLEEVE
TYP
N 05/20/15



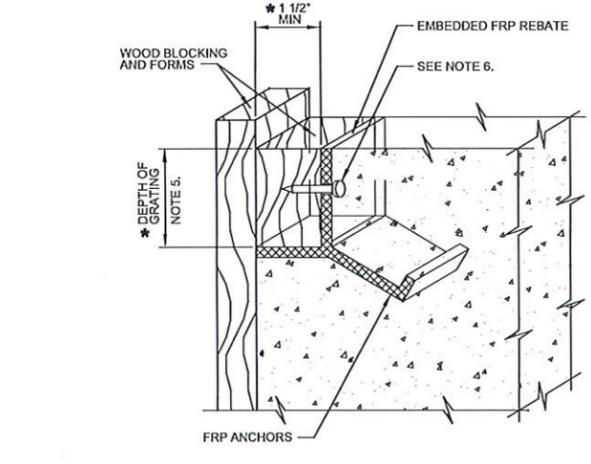
NOTES:
1. "T" = EQUALS GROUT THICKNESS INDICATED ON THE DRAWING. 1" MINIMUM GROUT THICKNESS.
2. FILL ANCHOR SLEEVES WITH POLYURETHANE FOAM BEFORE GROUTING.
3. DO NOT USE LEVELING NUTS ON EQUIPMENT ANCHORS.
4. PREPARE SURFACE OF EQUIPMENT BASES, BASE PLATES, SOLE PLATES, AND SKIDS IN CONTACT WITH GROUT AS SPECIFIED IN SECTION 46_05_10.
5. PREPARE SURFACES OF CONCRETE FOUNDATION IN CONTACT WITH GROUT AS SPECIFIED IN SECTION 46_05_10.
6. PLACE NON-SHRINK GROUT AS SPECIFIED IN SECTION 46_05_10.
7. AFTER GROUT SETS, TRIM GROUT TO 45 DEGREE CHAMFER.

S320 EQUIPMENT GROUTING WITH NON-SHRINK GROUT
TYP
N 12/15/20



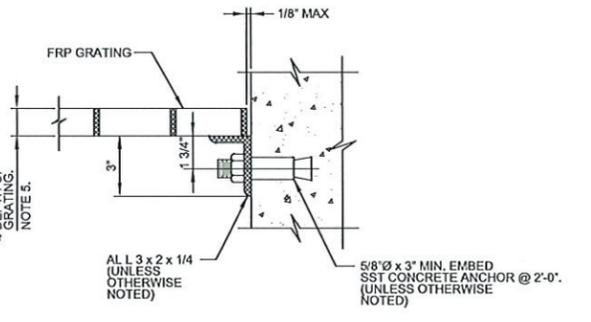
NOTES:
1. GRATING FASTENERS SHALL BE INSTALLED WHERE INDICATED ON THE DRAWINGS.
2. GRATING FASTENERS SHALL BE INSTALLED AT EACH CORNER OF EACH PANEL AND AT SPACING NOT TO EXCEED 8'-0".
3. RECESS THE GRATING CLIP WITHIN THE DEPTH OF THE GRATING TO AVOID A TRIPPING HAZARD.

S559 GRATING - FASTENERS (ALL MATERIALS)
TYP
S 03/16/21



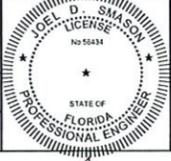
NOTES:
1. SEE SPECIFICATIONS FOR FRP GRATING.
2. MAKE REBATE AND/OR SEAT CONTINUOUS AROUND OPENING.
3. EMBEDDED REBATE SHALL BE 1/4" MINIMUM THICKNESS, ALL LEGS.
4. REBATE MAY BE EXTRUDED.
5. * = DIMENSION AS REQUIRED BY GRATING MANUFACTURER. SEE SPECIFICATIONS.
6. IF NAILS ARE USED FOR ATTACHMENT TO FORMWORK, PROVIDE TYPE 316 SST NAILS. CUT NAILS AND GRIND MINIMUM 1/8" BELOW SURFACE OF FRP. SEAL NAIL WITH FRP RESIN RECOMMENDED BY REBATE MANUFACTURER.

S632 GRATING - REBATE AND SEAT FRP
TYP
S 06/21/19



S632 GRATING - REBATE AND SEAT FRP
TYP
S 06/21/19

DESIGNED	DAM	JOEL D. SHAWSON
DRAWN	KRJ	No 50434
CHECKED	JDS	PROFESSIONAL ENGINEER
DATE	NOVEMBER 2025	



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Collier County

COLLIER COUNTY
NORTHEAST WRF/WTP -DIW CONVEYANCE
TYPICAL DETAILS
STRUCTURAL 3

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

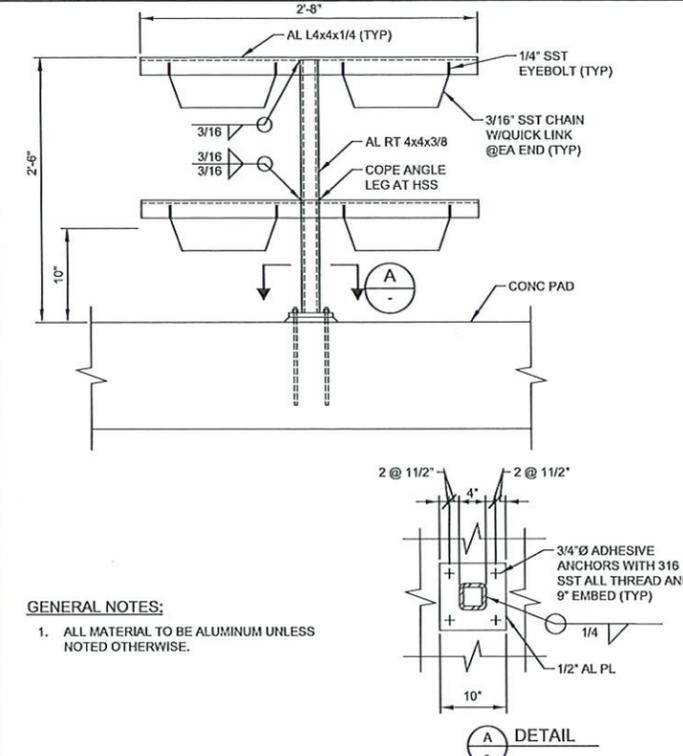
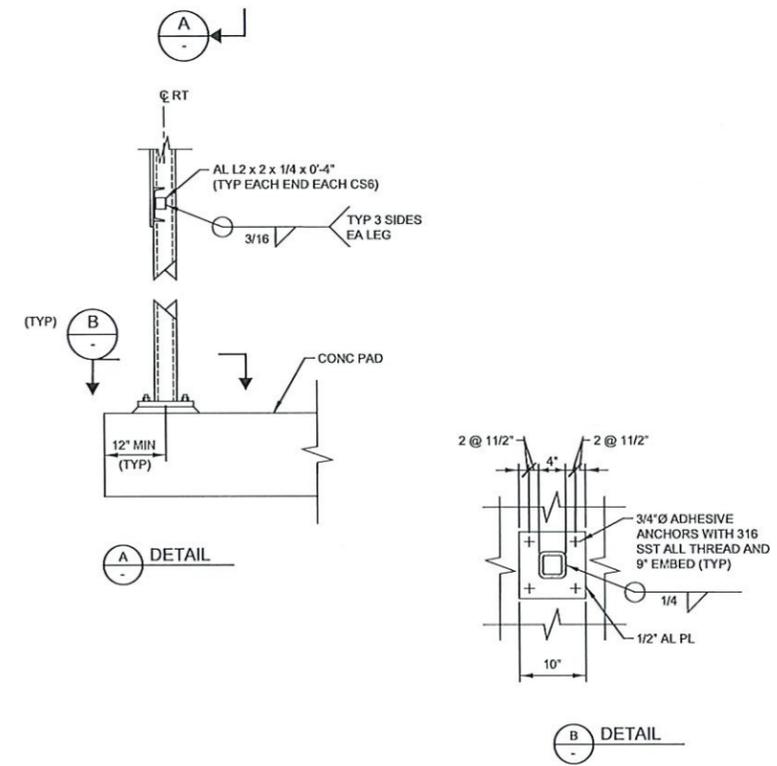
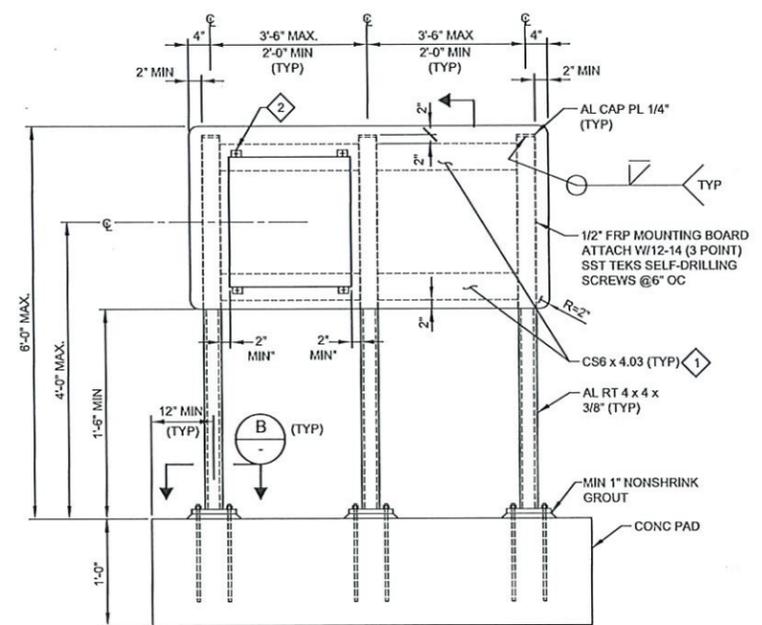
JOB NO. 71261.10
DRAWING NO. TS03
SHEET NO. 59 OF 62

Plot Date: 06-NOV-2025 4:59:08 PM

User: sncRW

Model: Layout1 ColorTable: gshado.ctb DesignScript: Carollo_Stid_Pen_v0905.pon PlotScale: 1:1

LAST SAVED BY: anicardo



GENERAL NOTES:
 1. ALL MATERIAL TO BE ALUMINUM UNLESS NOTED OTHERWISE.

GENERAL NOTES:
 1. REFER TO THE STRUCTURAL DRAWINGS FOR PAD DETAILS.
 2. SEE S101/TYP FOR CONCRETE COVER AND REINFORCEMENT NOTES.
 3. ALL MATERIAL TO BE ALUMINUM UNLESS NOTED OTHERWISE.

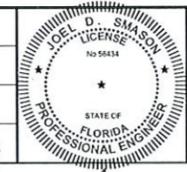
KEY NOTES:
 1. PROVIDE HORIZONTAL CHANNEL STIFFENER AT TOP AND BOTTOM AS SHOWN. ADD INTERMEDIATE CHANNELS AT MOUNTING LOCATIONS WHERE EQUIPMENT WEIGHT EXCEEDS 200 LB.
 2. MOUNT CABINETS/EQUIPMENT TO PLATE. FOR EQUIPMENT WEIGHTS EXCEEDING 200 LBS, MOUNTING BOLTS TO EXTEND THROUGH PLATE AND HORIZONTAL CHANNELS ON BACK, PER NOTE 1.

S901 EQUIPMENT MOUNTING STAND
 TYP
 11/15/22

S902 NITROGEN CYINDER STORAGE RACK
 TYP
 11/15/22

REV	DATE	BY	DESCRIPTION
1	10/25	RC	BID SET

DESIGNED	DAM
DRAWN	KRJ
CHECKED	JDS
DATE	NOVEMBER 2025



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Collier County

COLLIER COUNTY
NORTHEAST WRF/WTP -DIW CONVEYANCE
TYPICAL DETAILS
STRUCTURAL 4

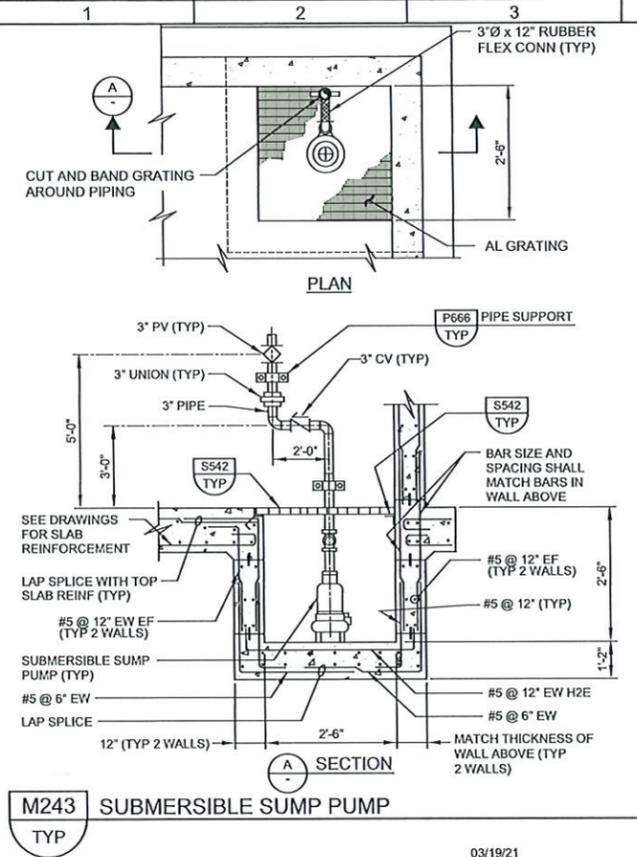
VERIFY SCALES	JOB NO.
BAR IS ONE INCH ON ORIGINAL DRAWING	71261.10
0 1"	DRAWING NO.
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	TS04
	SHEET NO.
	60 OF 62

Plot Date: 06-NOV-2025 4:55:17 PM

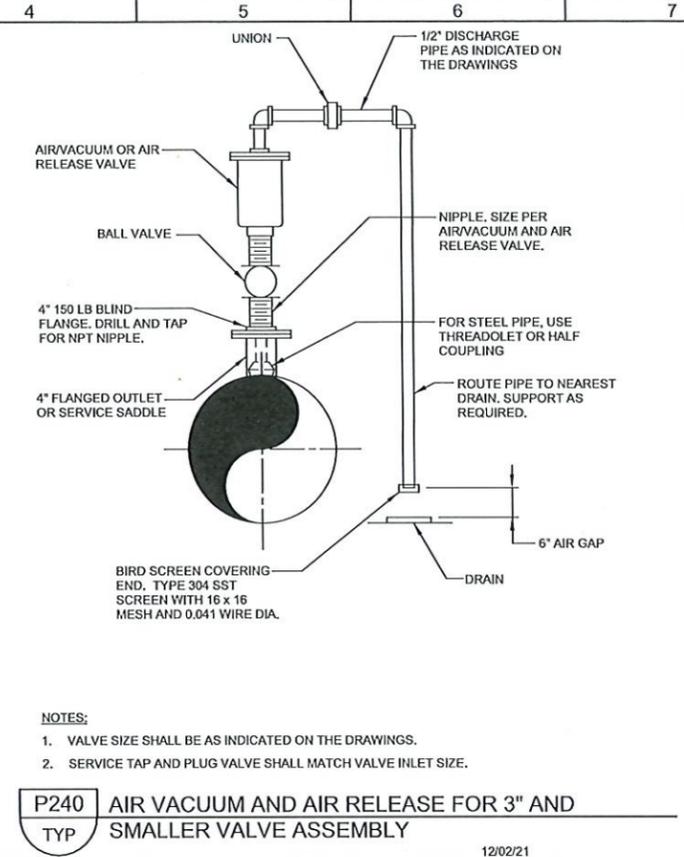
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Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo_Std_Pen_v0905.pon PlotScale: 1:1

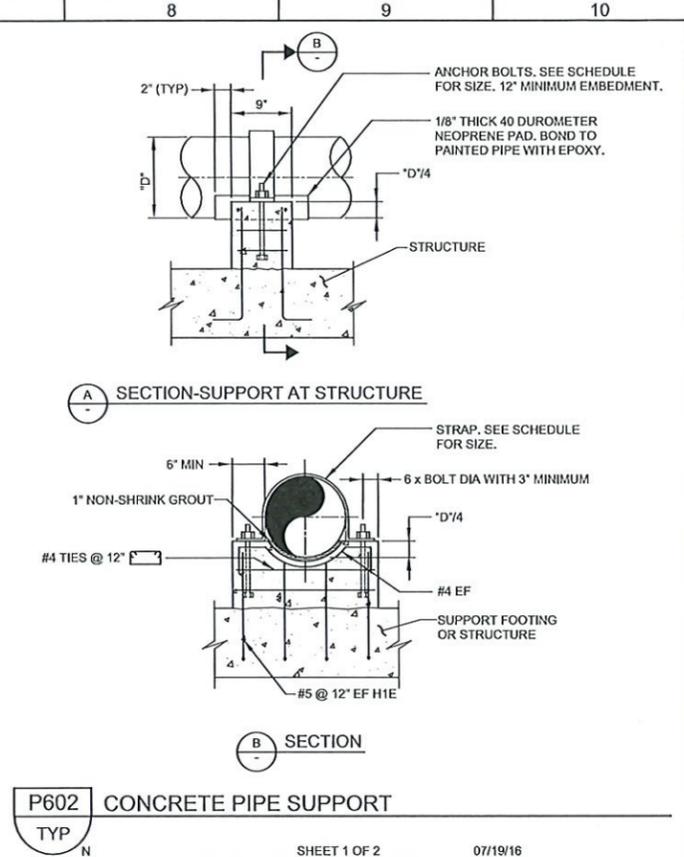
LAST SAVED BY: anicardo



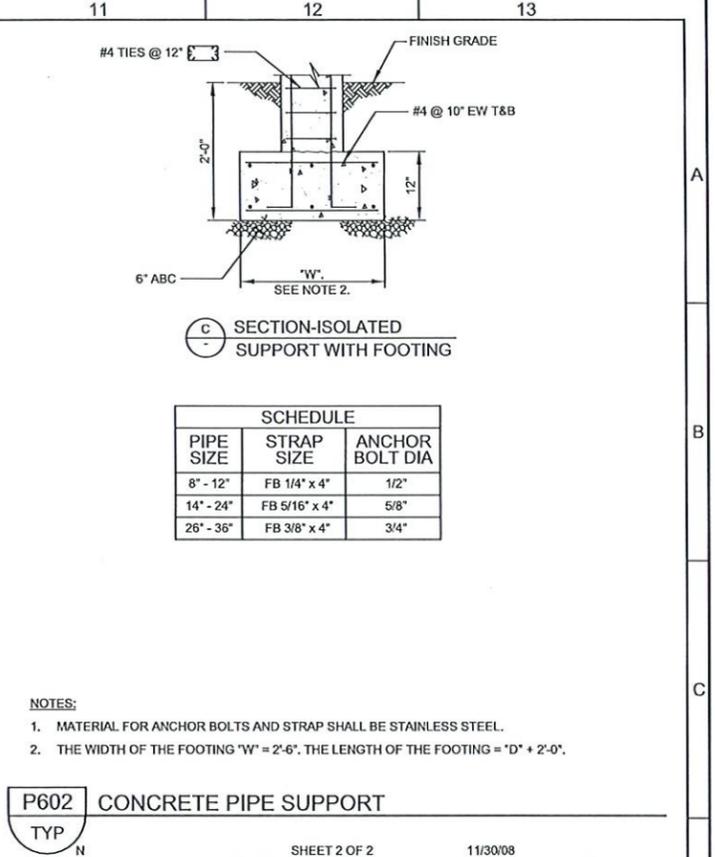
M243 SUBMERSIBLE SUMP PUMP
TYP
03/19/21



P240 AIR VACUUM AND AIR RELEASE FOR 3" AND SMALLER VALVE ASSEMBLY
TYP
12/02/21



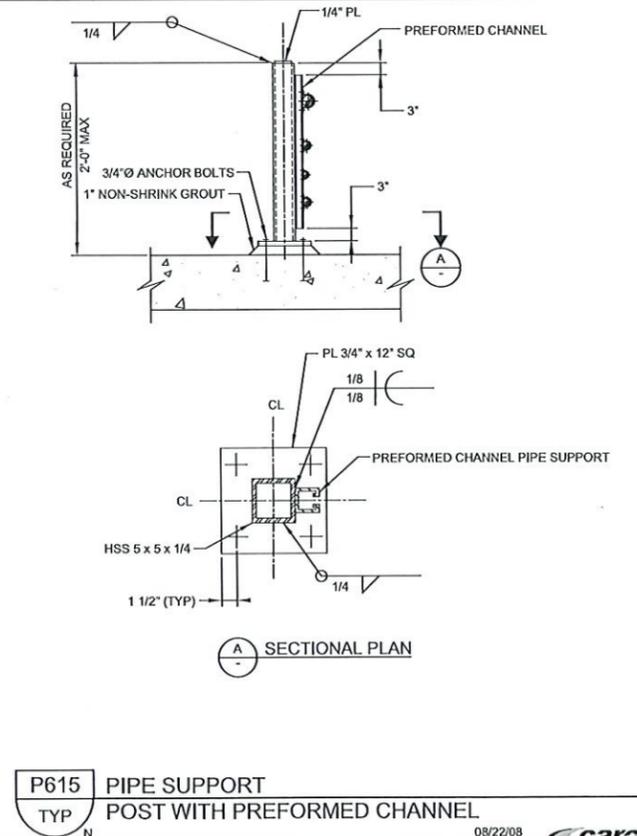
P602 CONCRETE PIPE SUPPORT
TYP
SHEET 1 OF 2 07/19/16



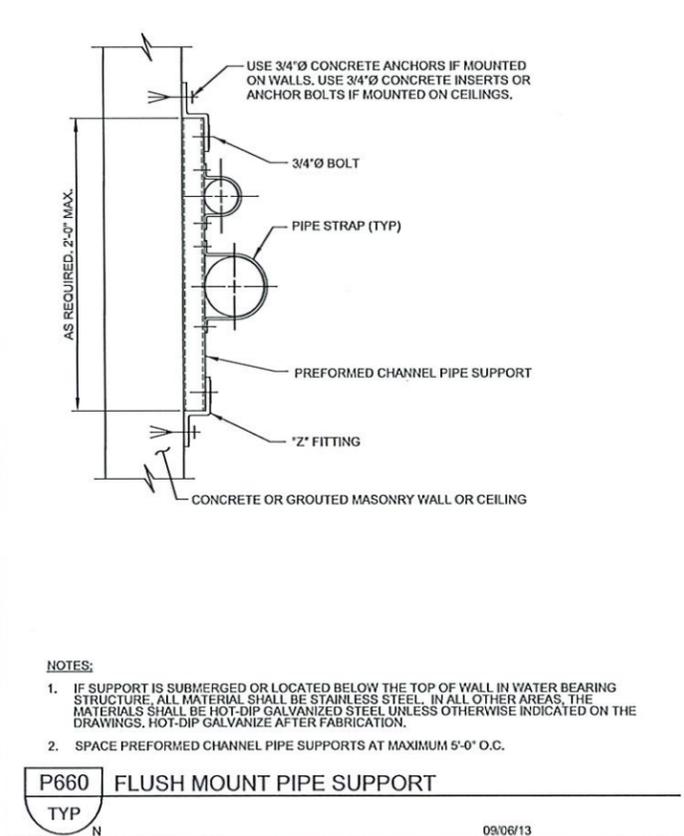
P602 CONCRETE PIPE SUPPORT
TYP
SHEET 2 OF 2 11/30/08

SCHEDULE		
PIPE SIZE	STRAP SIZE	ANCHOR BOLT DIA
8" - 12"	FB 1/4" x 4"	1/2"
14" - 24"	FB 5/16" x 4"	5/8"
26" - 36"	FB 3/8" x 4"	3/4"

- NOTES:
- MATERIAL FOR ANCHOR BOLTS AND STRAP SHALL BE STAINLESS STEEL.
 - THE WIDTH OF THE FOOTING "W" = 2'-6". THE LENGTH OF THE FOOTING = "D" + 2'-0".



P615 PIPE SUPPORT POST WITH PREFORMED CHANNEL
TYP
08/22/08



P660 FLUSH MOUNT PIPE SUPPORT
TYP
09/06/13

- NOTES:
- IF SUPPORT IS SUBMERGED OR LOCATED BELOW THE TOP OF WALL IN WATER BEARING STRUCTURE, ALL MATERIAL SHALL BE STAINLESS STEEL. IN ALL OTHER AREAS, THE MATERIALS SHALL BE HOT-DIP GALVANIZED STEEL UNLESS OTHERWISE INDICATED ON THE DRAWINGS, HOT-DIP GALVANIZE AFTER FABRICATION.
 - SPACE PREFORMED CHANNEL PIPE SUPPORTS AT MAXIMUM 5'-0" O.C.

REV	DATE	BY	DESCRIPTION
1	10/25	RC	BID SET
			DESCRIPTION

DESIGNED
CE
DRAWN
CE
CHECKED
LDM
DATE
NOVEMBER 2025

carollo
MATTHEW S. LOVE
No. 00118
FLORIDA
PROFESSIONAL ENGINEER

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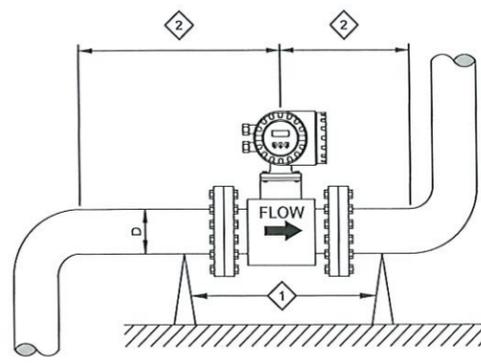
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Sarasota, FL 34232
Phone: 941-371-9832
CA No. 00008571

Collier County

COLLIER COUNTY
NORTHEAST WRF/WTP -DIW CONVEYANCE
TYPICAL DETAILS
MECHANICAL 1

VERIFY SCALES
JOB NO. 71261.10
DRAWING NO. TM01
SHEET NO. 61 OF 62

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



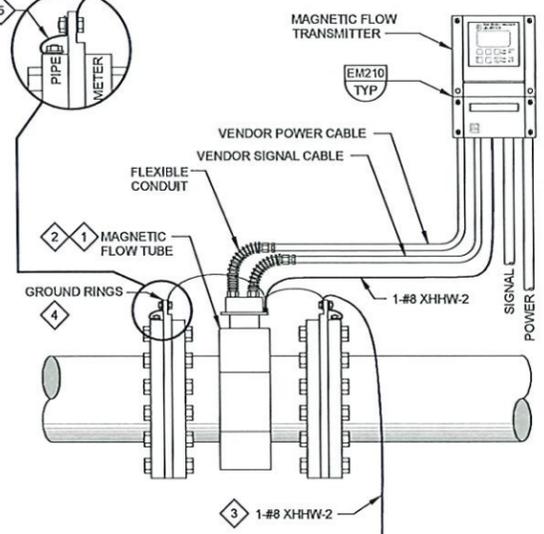
GENERAL NOTES:

1. FOLLOW MANUFACTURER'S RECOMMENDED MAXIMUM TORQUE SETTINGS. DO NOT OVER-TORQUE FLANGE BOLTS. OVERTIGHTENING THE FASTENERS WILL DEFORM SEALING FACES OR DAMAGE THE LINE.
2. ALWAYS TIGHTEN FLANGE BOLTS UNIFORMLY AND IN DIAGONALLY OPPOSITE SEQUENCE.
3. MOUNT METER SO THAT IT REMAINS FULLY FLOODED.
4. FOR METERS SPECIFIED WITH ZERO DIAMETER FEATURE, REFER TO THE MECHANICAL DRAWINGS FOR INSTALLATION.

KEY NOTES:

1. PIPE SUPPORTS BY MECHANICAL CONTRACTOR. NO SUPPORTS SHALL BE INSTALLED AT THE METER HOUSING.
2. INSTALL METER SUCH THAT THERE ARE NO PIPE BENDS FOR 5 PIPE DIAMETERS UPSTREAM AND 3 PIPE DIAMETERS DOWNSTREAM OF THE METER.

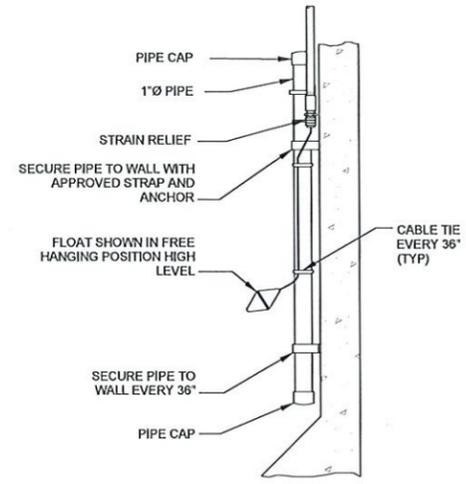
NF130 MAGNETIC FLOWMETER MOUNTING DETAIL
TYP



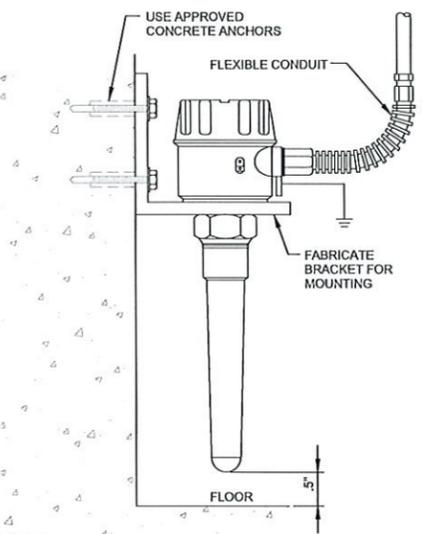
KEY NOTES:

1. CONTRACTOR SHALL VERIFY ZERO POTENTIAL BETWEEN FLOW TUBE, EARTH GROUND AND TRANSMITTER GROUND TERMINAL.
2. CONNECT TRANSMITTER GROUND TERMINAL TO GROUND RINGS.
3. CONNECT METER BODY TO EARTH GROUND POTENTIAL.
4. EQUALIZE POTENTIAL VIA GROUND RINGS BETWEEN FLUID AND MAGMETER.
5. PROVIDE BONDING JUMPER ON CONDUCTIVE PIPES.

NF135 REMOTE TRANSMITTER MAGNETIC FLOWMETER GROUNDING DETAIL
TYP



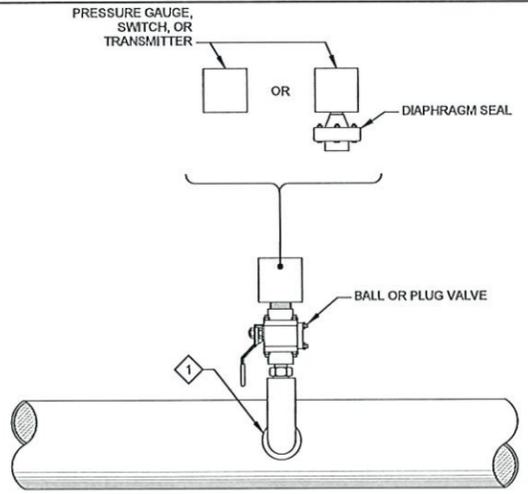
NL101 FLOAT SWITCH INSTALLATION
TYP



GENERAL NOTES:

1. A POINT-LEVEL INSTRUMENT IS SHOWN HERE WITH AN INTEGRAL REFERENCE PROBE.
2. GROUNDING REQUIREMENTS WILL VARY BASED ON THE MANUFACTURER, TRANSMITTER/SWITCH, AND THE SPECIFIC APPLICATION IN FERROUS, NON-FERROUS, TOTES, TANKS, PIPES, AND VESSELS. REFER TO THE MANUFACTURERS DOCUMENTATION TO ENSURE THE INSTRUMENT GROUNDING IS CORRECT FOR THE APPLICATION.

NL114 CAPACITANCE LEVEL SENSOR MOUNTING DETAIL
TYP



GENERAL NOTES:

1. PROVIDE DIAPHRAGM SEALS IF REQUIRED BY INSTRUMENT DATA SHEETS OR SPECIFICATIONS.
2. PROVIDE INSTRUMENT ASSEMBLY WITH 1" VALVES AND PIPING, OR AS APPROVED BY ENGINEER. USE STAINLESS STEEL OR AS REQUIRED FOR COMPATIBILITY WITH PROCESS FLUID. PROVIDE FITTINGS FOR INSTRUMENT CONNECTIONS AS REQUIRED.
3. REFER TO MECHANICAL DRAWINGS FOR INSTRUMENT LOCATION AND PROCESS PIPE ORIENTATION.

KEY NOTES:

1. PROVIDE SIDE-TAP PROCESS CONNECTION. THREADED TAP OR SADDLE CONNECTION FOR DUCTILE IRON PIPE. WELD-O-LET OR THREAD-O-LET FOR WELDED PIPE. TEE OR REDUCING TEE FOR NON-METALLIC PIPE AND PIPES 1" OR SMALLER.

NP503 ISOLATING PRESSURE INSTRUMENT MOUNTING DETAIL
TYP

LAST SAVED BY: wehndigon

REV	DATE	BY	DESCRIPTION
1	10/25	RC	BID SET

DESIGNED CE	
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CHECKED AMA	
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Collier County

COLLIER COUNTY	VERIFY SCALES	JOB NO. 71261.10
NORTHEAST WRF/WTP -DIW CONVEYANCE	BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO. TN01
TYPICAL DETAILS	0 1"	SHEET NO. 62 OF 62
INSTRUMENTATION 1	IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	