



MODEL CP8000 SERIES
FILTER PANEL



Delta Treatment Systems
9125 Comar Drive
Walker, LA 70785
(225) 665-6162 Fax (800) 219-9183

CP8000 SERIES FILTER CONTROL PANEL

Timed dosing of simplex or duplex pumps for drip systems.

The CP8000 Series Filter Control Panel provides timed dosing control of simplex or duplex pumps. Primarily designed for ½ HP and 1 HP high head well pumps for pumping effluent from ATU systems. Panel controls all functions of the pumps and valves including backwash and drain. Panel can be connected for 2, 3, 4, or 5 float operations. The panel has an audible alarm light, silence switch and Hand-Off-Auto switch. All components are finger safe. Pump must have internal thermal overload protection.

SPECIFICATIONS:

Voltage: 115 Volts or 230 Volts

Maximum Current: 115 Volts-12 Amps FLA
230 Volts-12 Amps FLA

Control: Filter backwashing & draining and field flushing & draining

Alarm: Visual and audible with Silence switch.

Protection: Circuit breakers and fuses.

Enclosure: Outdoor NEMA 4X non-corrosive.

Other: Magnetic motor starter contactor, low voltage Transformer for solenoids, valve box heater circuit, Terminal strips, finger safe components.

MODEL NUMBER:

CP 8 / /
 A B C

A: 115 = 115 Volt Pump
230 = 230 Volt Pump

B: S = Simplex (1 Pump)
D = Duplex (2 Pump)

C: 1 = Single Circuit Feed
2 = Dual Circuit Feed (1 For Pump, 1 For Controls and Alarm)
3 = Triplex Circuit Feed (1 For Each Pump, 1 For Controls and Alarm)

8000 R3 Operation Description – OBA8:FS6

NORMAL OPERATION

- There is 2-minute (non-settable) power-up delay before the pump is allowed to run
 - During the 2-minute power-up delay, the filter valve and the field flush valve will open for 1 minute (non-settable)
- After the 2-minute power-up delay, if the “WIDE ANGLE PUMP ON-OFF PERMISSIVE” float is activated, the pump will turn on and off with a repeat cycle timer (run time and off time set by parameter B001)
- The filter valve will open for a 1-minute filter flush time (set by parameter B3) after the pump turns on
- The filter valve will open for a 2-minute filter drain time (set by parameter B4) after the pump shuts off
- The field flush valve will open for a 2-minute field drain time (set by parameter B6) after the pump shuts off

OVERRIDE

- When the water level rises and activates the “Override Timer” float, normal operation pump off time (set by parameter B1) is shortened to pump off time during override (set by parameter B2)
 - all set time parameters for the filter and field flush valve remain the same.
 - If the “Override Timer” float is activated while the pump is off, the pump will immediately turn on
 - Pump off time between doses returns to normal operation setting (B1) after the water recedes below the “Override Time Reset” float.

ALARMS

- If the water level rises above the “High Level Alarm” float, alarm light will illuminate and the buzzer will sound.
 - The light and buzzer turn off when the water recedes below the “High Level Alarm” float

ADDITIONAL NOTES

- At any time, if the “Manual Field Flush” switch is pressed, the field flush valve will open for 1 minute (set by parameter B9)
- After 84 pump starts (set by parameter B8), the field flush valve will open for a 2-minute field flush time (set by parameter B5) after the pump turns on

8000 R3 PARAMETERS LIST

NAME	OPERATION	DESCRIPTION	PLC NOMENCLATURE (DISPLAY)
B1	Turns the pump on and off	TH = run time TL = off time Ta = elapsed time	TH = 12:00m (ON) TL = 02:00h (OFF) Ta = 00:00m (DISREGARD)
B2	Pump off time during override	T = off time Ta = elapsed time	T = 01:00h Ta = 00:00h (DISREGARD)
B3	Filter flush time after the pump turns on	T = filter flush time Ta = elapsed time	T = 01:00m Ta = 00:00m (DISREGARD)
B4	Filter drain time after the pump turns off	T = filter drain time Ta = elapsed time	T = 02:00m Ta = 00:00m (DISREGARD)
B5	Field flush time normal operation	T = field flush time Ta = elapsed time	T = 02:00m Ta = 00:00m (DISREGARD)
B6	Field drain time after the pump turns off	T = field drain time Ta = elapsed time	T = 02:00m Ta = 00:00m (DISREGARD)
B7*	Number of fields	On = # of fields Off = # of fields Cnt = Elapsed Counts STV = Start Value	On = 4 Off = 4 Cnt = 0 (DISREGARD) STV = 0 (DISREGARD)
B8*	Number of cycles until field flush	On = # of cycles Off = # of cycles Cnt = Elapsed Counts STV = Start Value	On = 84 Off = 84 Cnt = 0 (DISREGARD) STV = 0 (DISREGARD)
B9	Time for field flush valve to remain open after pushing field flush switch	T = manual field flush time Ta = elapsed time	T = 01:00m Ta = 00:00m (DISREGARD)

***NOTE: On & Off value is the same.**

PLC TIMER PARAMETER FORMAT:

Minute settings are in minutes and seconds. For example:

02:00m = 2 minutes

02:10m = 2 minutes and 10 seconds

00:12m = 0 minutes and 12 seconds

Hour settings are in hours and minutes. For example:

02:00h = 2 hours and 0 minutes

02:10h = 2 hours and 10 minutes

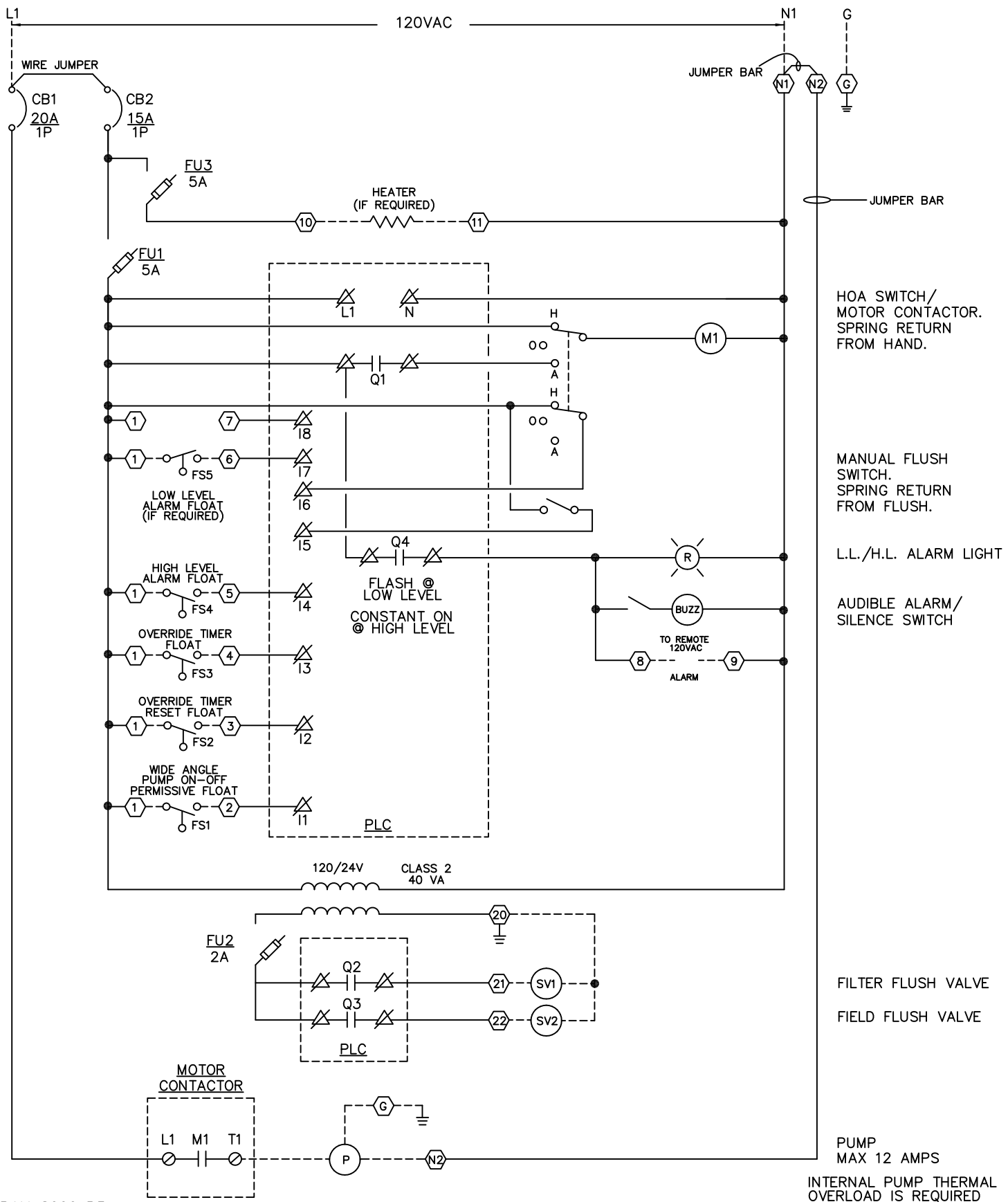
00:12h = 0 hours and 12 minutes



CP-8115/S/1
MODEL CP8000 SERIES
FILTER PANEL



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PROGRAM 8000 R3



Delta Treatment Systems
9125 Comar Drive Walker, LA 70782

FILTER CONTROL PANEL SCHEMATIC DIAGRAM SINGLE CIRCUIT, 120VAC, SIMPLEX

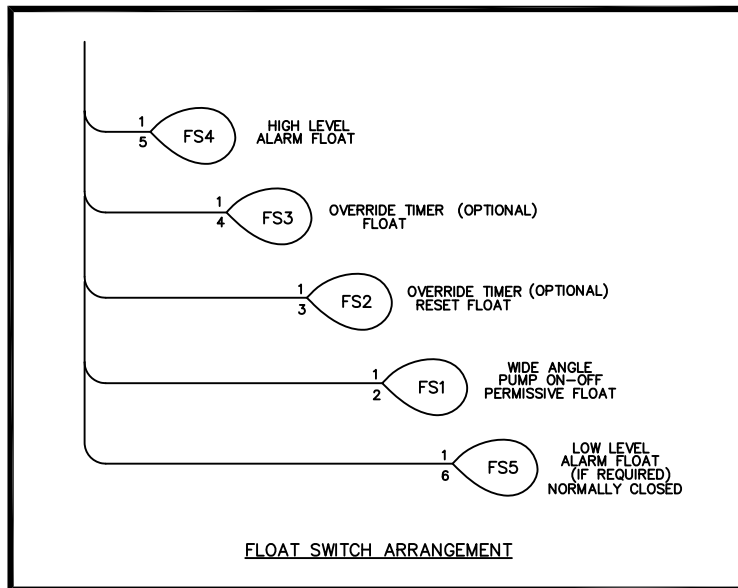
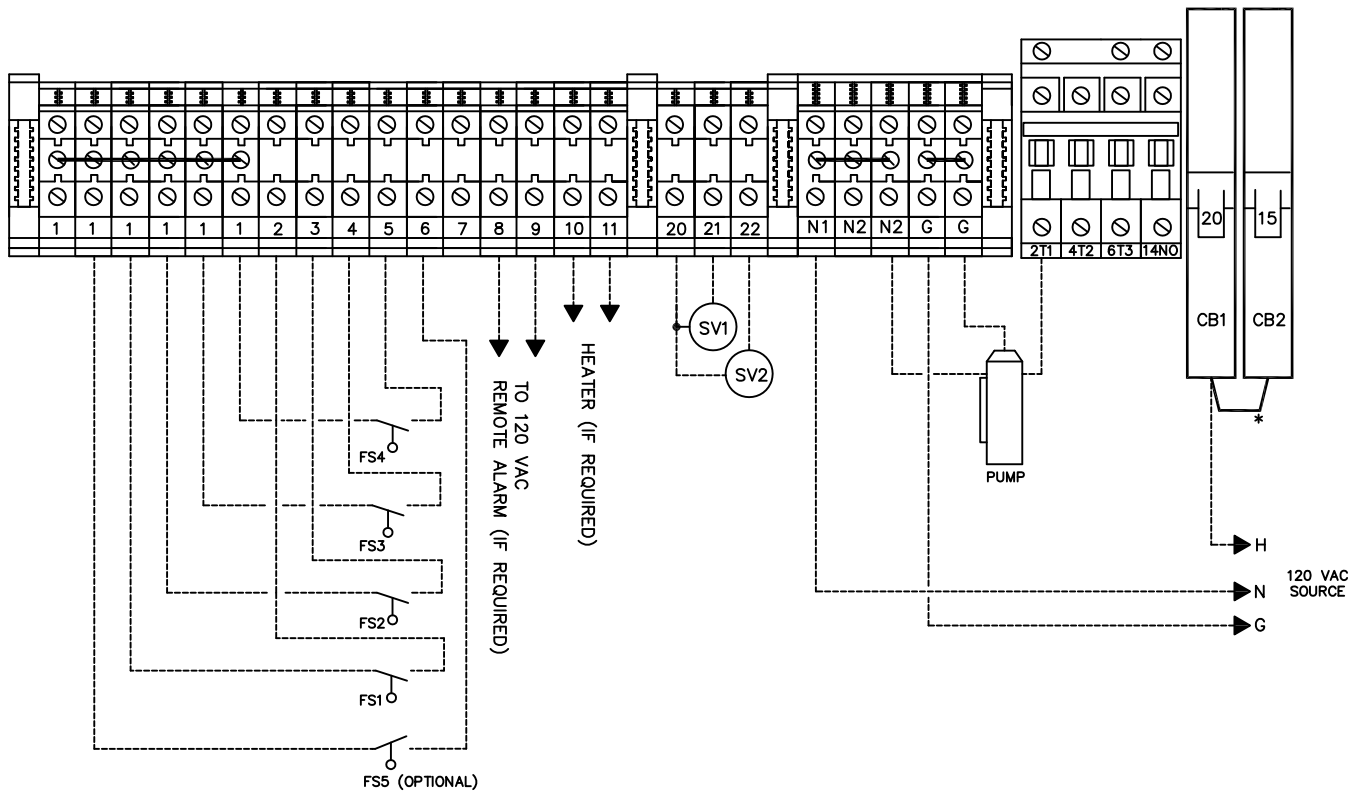
DWN BY:
E. ECKER/ECK

DATE:
02/07/18

SCALE:
N.T.S.

DWG. NO.:

JOB NO.:
CP8115/S/1



* EXISTING JUMPER
LEAVE UNDISTURBED
UNLESS MULTIPLE
CIRCUITS REQUIRED



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9125 Comar Drive Walker, LA 70782

Filter System Model 8115-1/2 HP External Connections

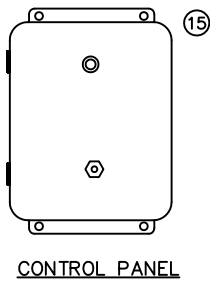
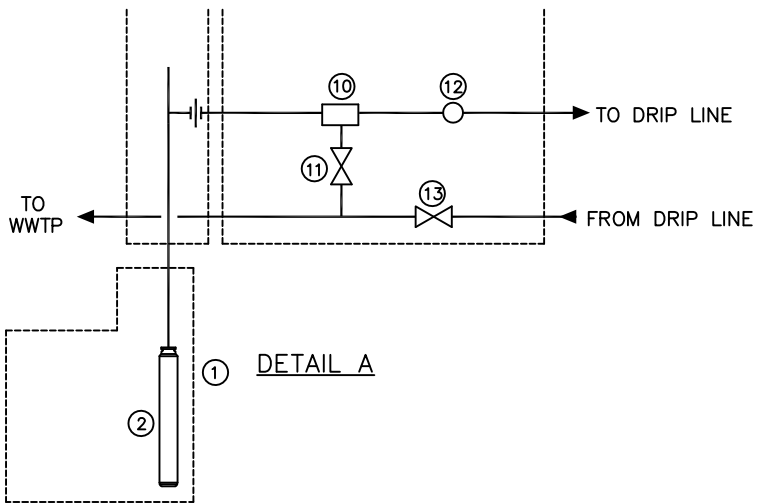
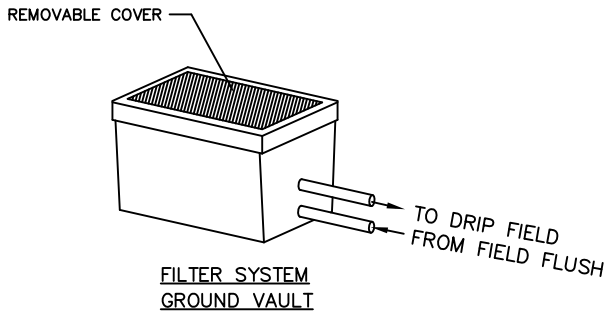
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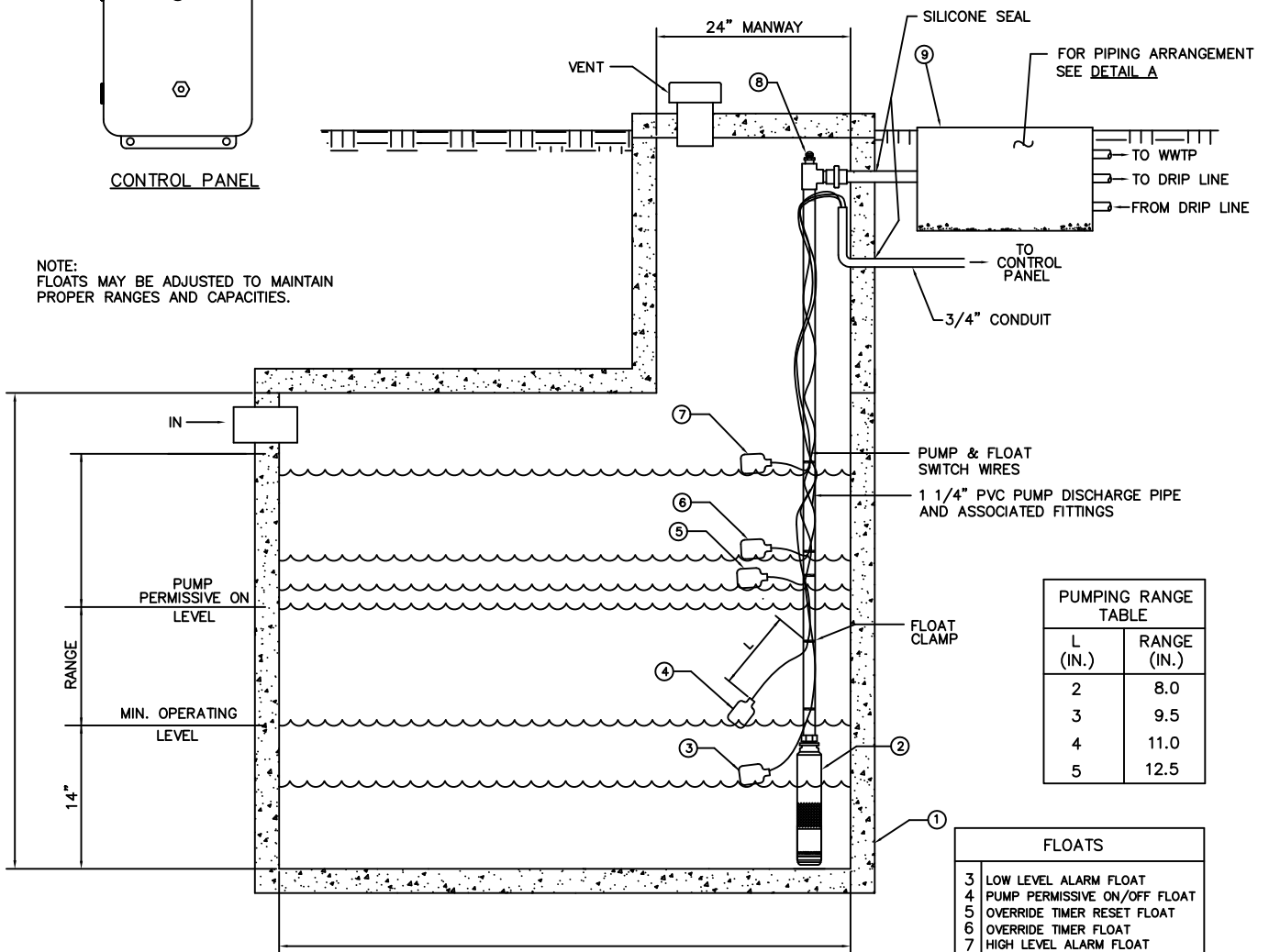
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NOTE:
FLOATS MAY BE ADJUSTED TO MAINTAIN
PROPER RANGES AND CAPACITIES.



PUMPING RANGE TABLE	
L (IN.)	RANGE (IN.)
2	8.0
3	9.5
4	11.0
5	12.5

FLOATS	
3	LOW LEVEL ALARM FLOAT
4	PUMP PERMISSIVE ON/OFF FLOAT
5	OVERRIDE TIMER RESET FLOAT
6	OVERRIDE TIMER FLOAT
7	HIGH LEVEL ALARM FLOAT

GENERAL ARRANGEMENT



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Filter System Model 8115/8230

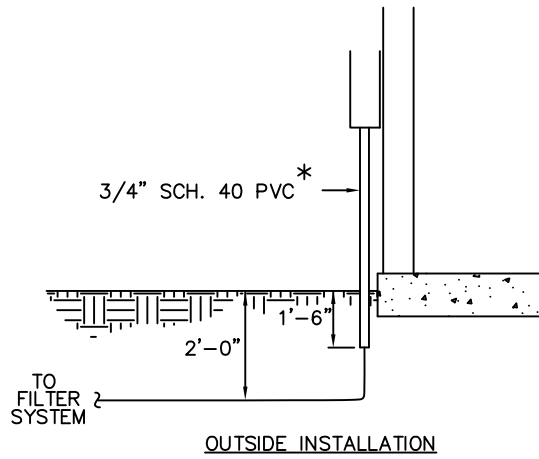
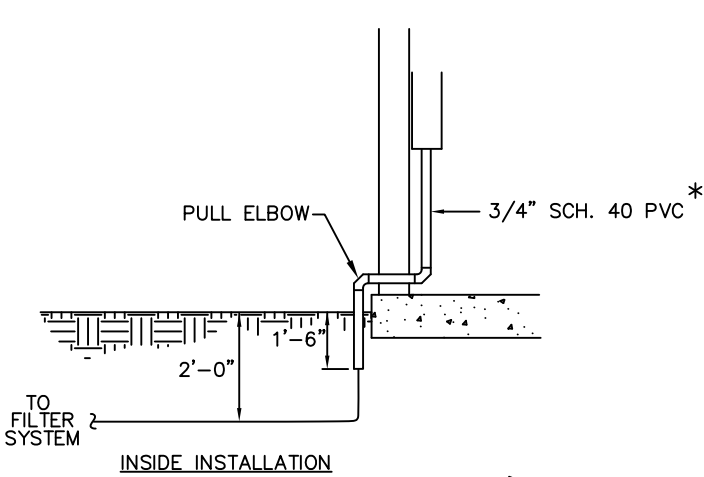
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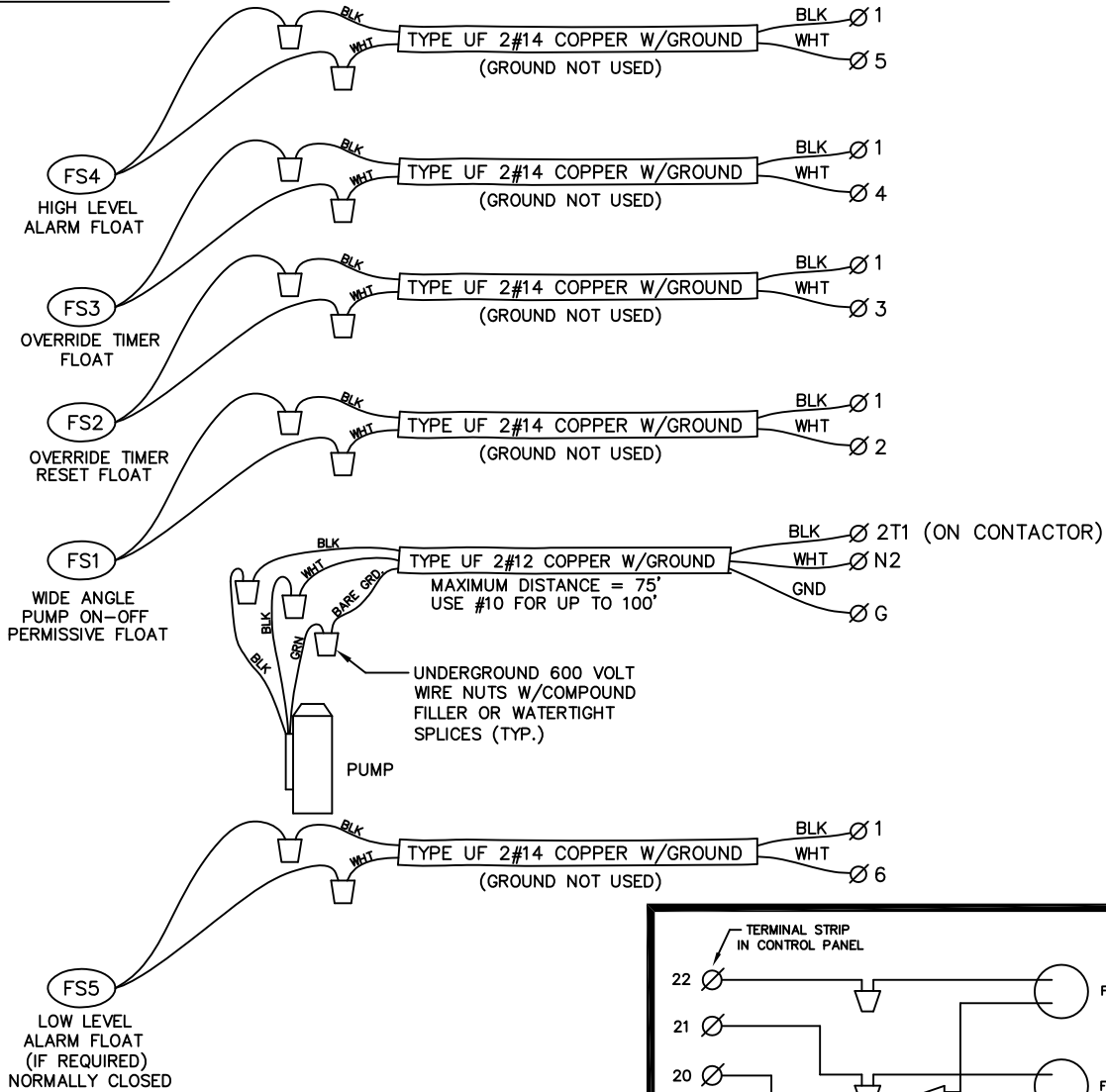
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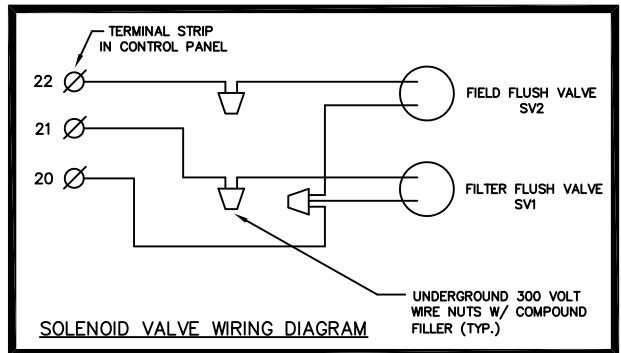


INSIDE INSTALLATION

OUTSIDE INSTALLATION



CONNECTIONS OF UNDERGROUND WIRE TO MOTOR AND FLOAT SWITCHES



Delta Treatment Systems
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Filter System Electrical Installation Drawings MODEL 8115-1/2HP

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FLOAT SELECTION CHART

<u>NUMBER OF FLOATS</u>	<u>FLOAT</u>				
	FS1	FS2	FS3	FS4	FS5
5 FLOAT SYSTEM	WA	S	S	S	S(N.C.)
4 FLOAT SYSTEM	WA	S	S	S	—
3 FLOAT SYSTEM	WA	—	WA	S	—
2 FLOAT SYSTEM	WA	—	—	WA	—

WA = NORMALLY OPEN WIDE ANGLE
HIGH OR LOW CURRENT RATING

S = NORMALLY OPEN STANDARD NON-WIDE ANGLE
HIGH OR LOW CURRENT RATING

N.C. = NORMALLY CLOSED FLOAT

FS1 – WIDE ANGLE FLOAT THAT WILL ALLOW THE PUMP TO START WHEN UP,
AND WILL STOP THE PUMP WHEN DOWN. IT KEEPS THE PUMP FROM RUNNING DRY.

FS2 – WHEN DOWN, RESETS THE OVERRIDE FUNCTION.

FS3 – WHEN UP, STARTS A PUMP CYCLE AND OPERATES ON A SHORT PUMP CYCLE UNTIL
FS2 DROPS.

FS4 – WHEN UP, ALARMS HIGH LEVEL. DOES NOT START PUMP.

FS5 – WHEN DOWN, ALARMS LOW LEVEL. DOES NOT STOP PUMP.



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Float Selection Chart
8115, 8230 Simplex & Duplex

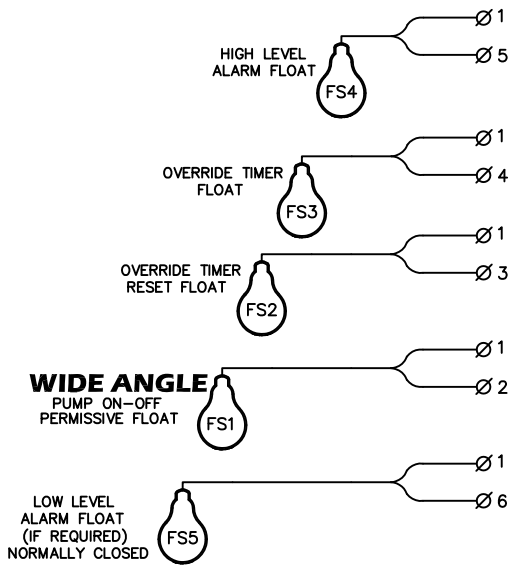
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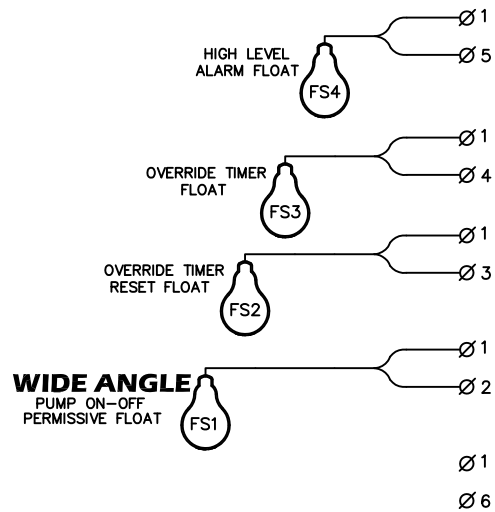
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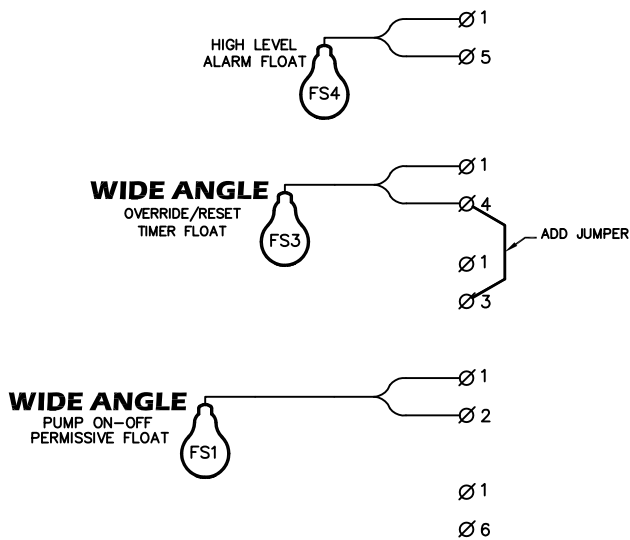
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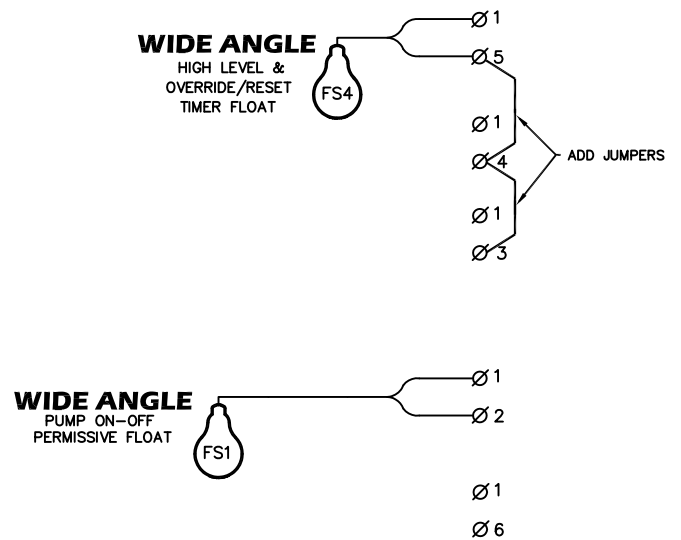
5 FLOAT SYSTEM



4 FLOAT SYSTEM



3 FLOAT SYSTEM



2 FLOAT SYSTEM



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9125 Comar Drive Walker, LA 70782

Connection Of Floats

8115, 8230 Simplex & Duplex

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PLC PARAMETERS

<u>BLOCK</u>	<u>DESCRIPTION</u>	<u>FACTORY SETTING</u>	<u>PLC NOMENCLATURE</u>
B01	TH = Run time TL = Off time	12 Minutes 2 Hours	12:00m 02:00h
B02	Off time during override period	1 Hour	01:00h
B03	Filter flush time after pump turns on	1 Minute	01:00m
B04	Filter drain time after pump turns off	2 Minutes	02:00m
B05	Field flush time normal operation	2 Minutes	02:00m
B06	Field drain time after pump turns off	2 Minutes	02:00m
B07	Number of fields	4	4
B08	Number of cycles until 1st field flush	84	84
B09	Field flush time when field flush switch is pressed	1 Minute	01:00m

Note: Minute settings are in minutes and seconds. For example 02:00m is 2 minutes, 02:10m is 2 minutes and 10 seconds. Hour settings are in hours and minutes. For example 02:00h is 2 hours and no minutes, 02:10h is 2 hours and 10 minutes, and 00:12h is 12 minutes.

In addition to the settings above, various other parameters can be viewed as follows:

- Pump run time hours
- Pump start counts
- Level override counts
- High level counts
- Switch to hand counts



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PARAMETERS

8115, 8230 Simplex & Duplex

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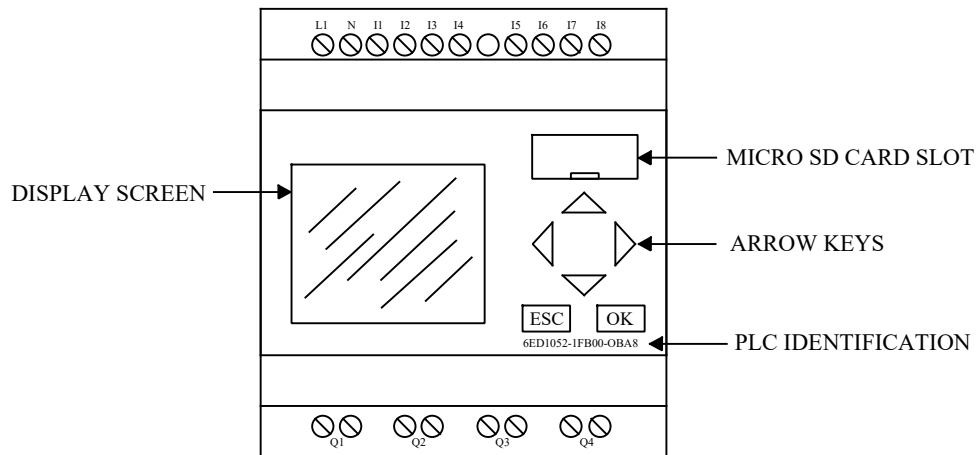
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Setting the PLC



FRONT VIEW OF PLC

The clock screen is considered the "main" screen and will be the starting point for all programming.

- Upon power up, the clock screen may not be displayed.
- Use and to reach the main screen (clock showing) and to scroll through data display screens

Setting Parameters:

1. Press until you see the main screen (clock showing) and then press . The main menu is now displayed.
2. From the main menu, use or to highlight "**Program**" and press . The program menu is now displayed.
3. From the program menu, use or to highlight "**Set Parameter**" and press . The parameters list is now displayed.
4. Use or to scroll through the parameters list. Once the desired parameter is highlighted, press .
5. Use or to highlight desired parameter setting and press . A blinking cursor will appear
6. Use or to move the cursor and the or to change values.
7. Press after changing parameter setting and the cursor will disappear
8. Once parameter setting(s) are changed, press to return to parameters list.
9. Repeat Step 4-9 until all parameters are set to the correct values.
10. Press one time to return to programming menu; two times to return to main menu; three times to return to main screen (clock showing).

Notes:

- To view inputs, at the main screen (clock showing) press .
 - o To return to main screen (clock showing) press .
- To view outputs, at the main screen (clock showing) press twice.
 - o To return to main screen (clock showing) press twice.

8000 R3 Operation Description – OBA8:FS6

NORMAL OPERATION

- There is 2-minute (non-settable) power-up delay before the pump is allowed to run
 - During the 2-minute power-up delay, the filter valve and the field flush valve will open for 1 minute (non-settable)
- After the 2-minute power-up delay, if the “WIDE ANGLE PUMP ON-OFF PERMISSIVE” float is activated, the pump will turn on and off with a repeat cycle timer (run time and off time set by parameter B001)
- The filter valve will open for a 1-minute filter flush time (set by parameter B3) after the pump turns on
- The filter valve will open for a 2-minute filter drain time (set by parameter B4) after the pump shuts off
- The field flush valve will open for a 2-minute field drain time (set by parameter B6) after the pump shuts off

OVERRIDE

- When the water level rises and activates the “Override Timer” float, normal operation pump off time (set by parameter B1) is shortened to pump off time during override (set by parameter B2)
 - all set time parameters for the filter and field flush valve remain the same.
 - If the “Override Timer” float is activated while the pump is off, the pump will immediately turn on
 - Pump off time between doses returns to normal operation setting (B1) after the water recedes below the “Override Time Reset” float.

ALARMS

- If the water level rises above the “High Level Alarm” float, alarm light will illuminate and the buzzer will sound.
 - The light and buzzer turn off when the water recedes below the “High Level Alarm” float

ADDITIONAL NOTES

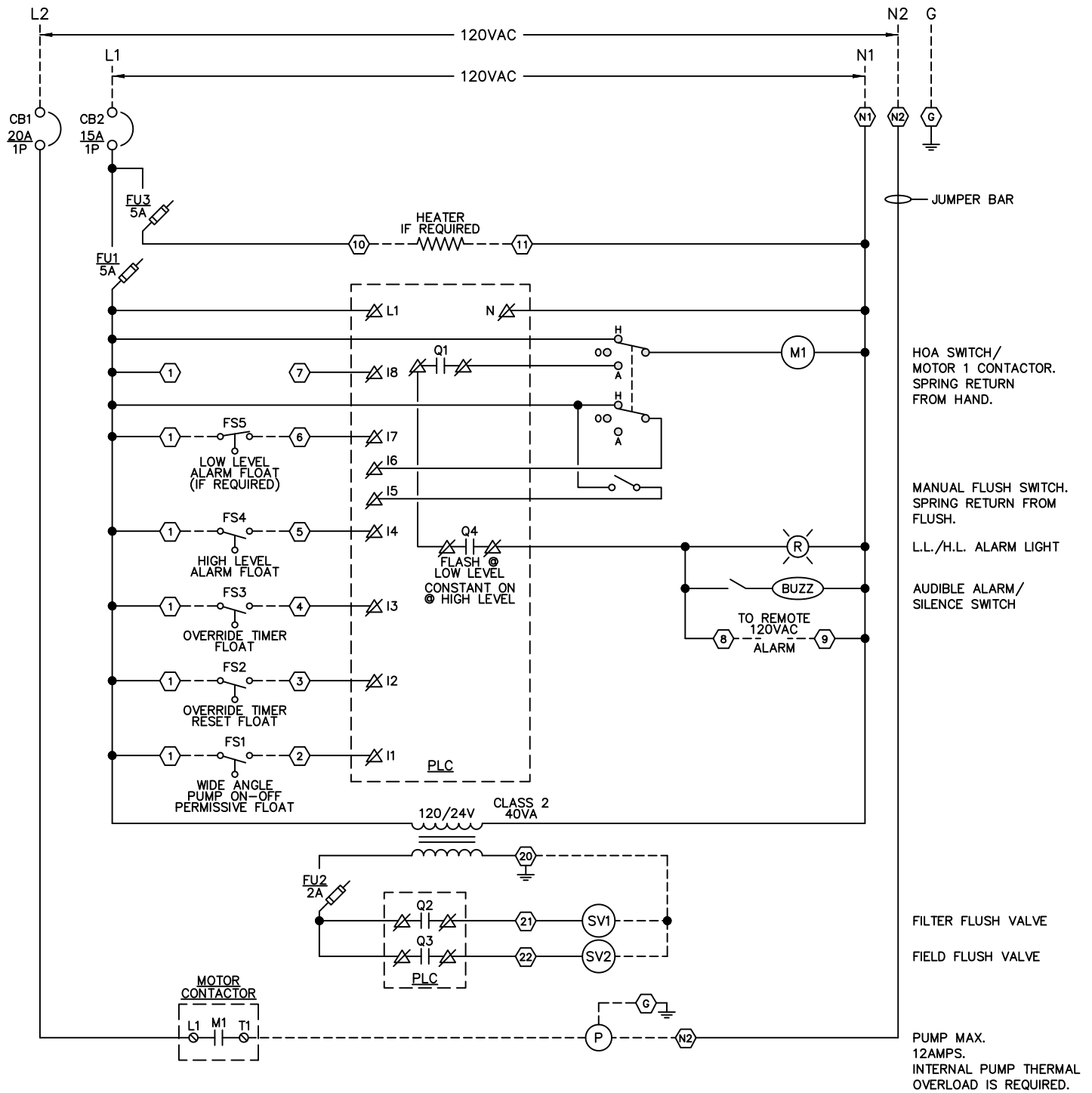
- At any time, if the “Manual Field Flush” switch is pressed, the field flush valve will open for 1 minute (set by parameter B9)
- After 84 pump starts (set by parameter B8), the field flush valve will open for a 2-minute field flush time (set by parameter B5) after the pump turns on



CP8115/S/2
MODEL CP8000 SERIES
FILTER PANEL



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PROGRAM: 8000 R3



SCHEMATIC DIAGRAM DUAL CIRCUIT, 120VAC, SIMPLEX FILTER CONTROL PANEL

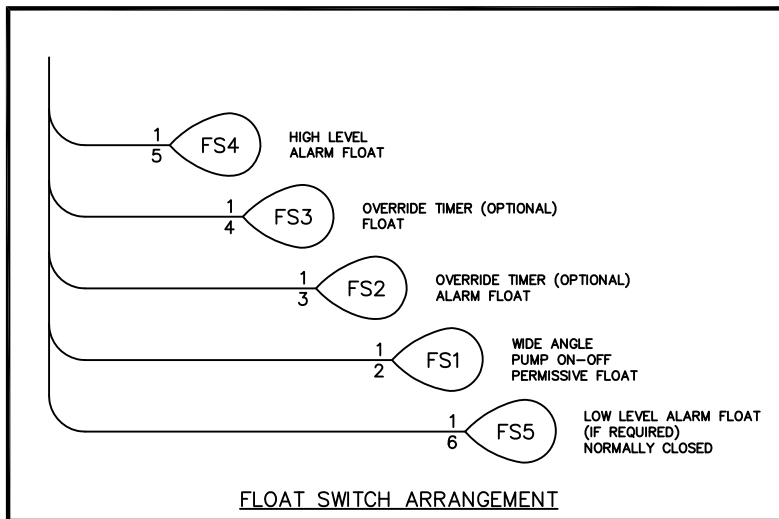
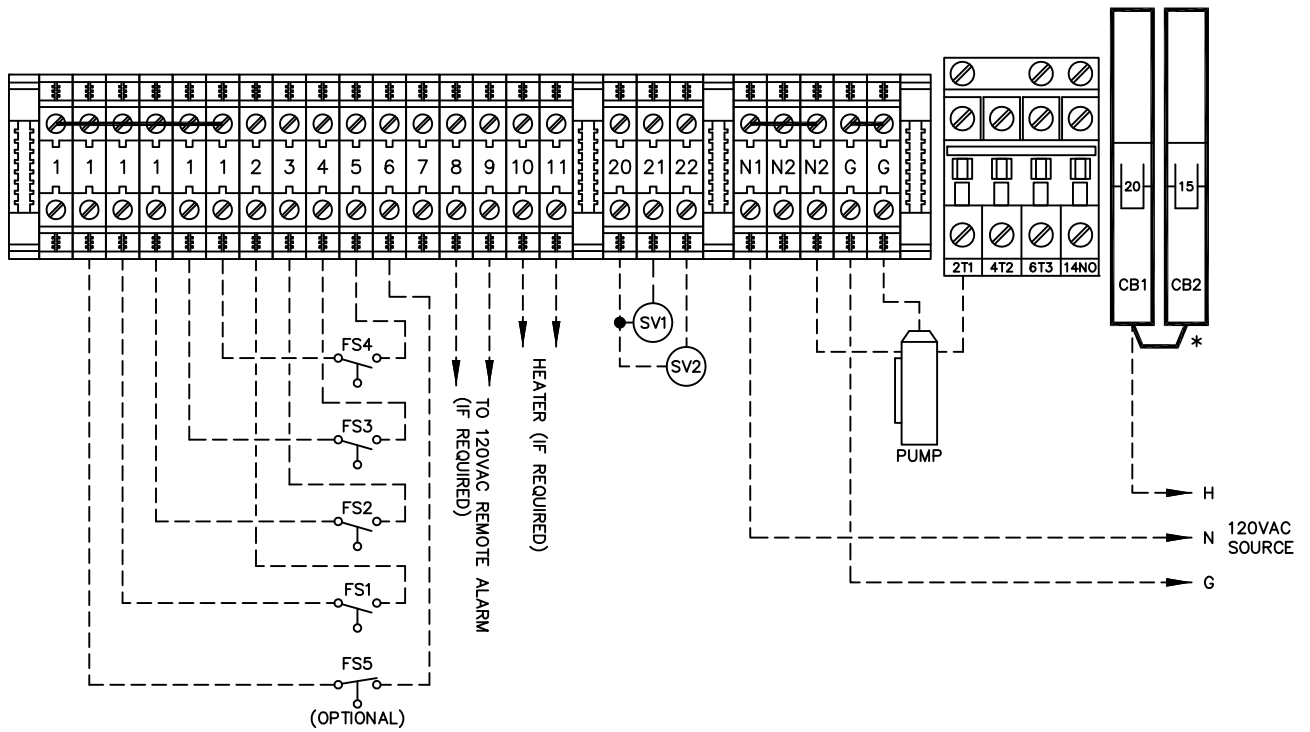
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DWG. NO. :
1/6

JOB NO. :
CP8115/S/2



* EXISTING JUMPER
LEAVE UNDISTURBED
UNLESS MULTIPLE
CIRCUITS REQUIRED.



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EXTERNAL SYSTEM
MODEL 8115-1/2HP
FILTER CONTROL PANEL

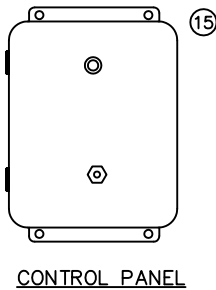
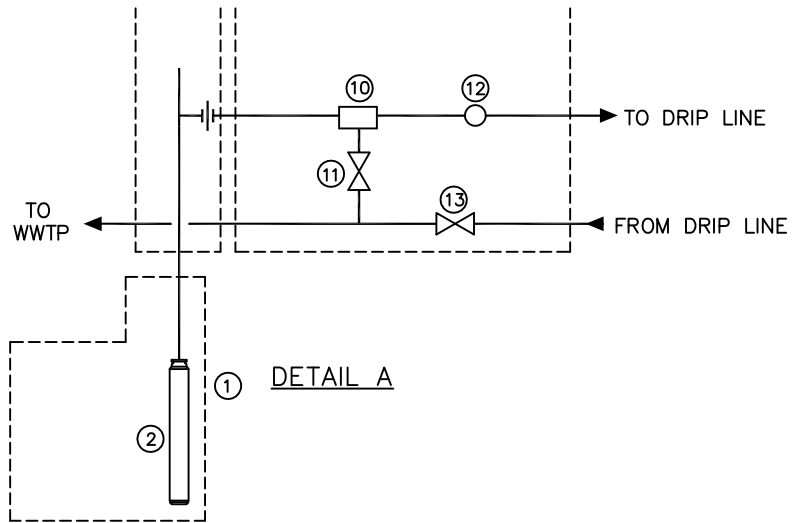
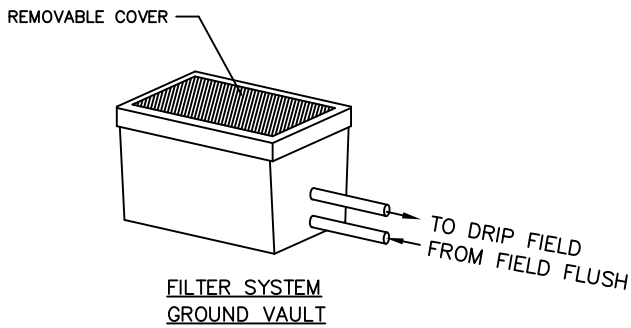
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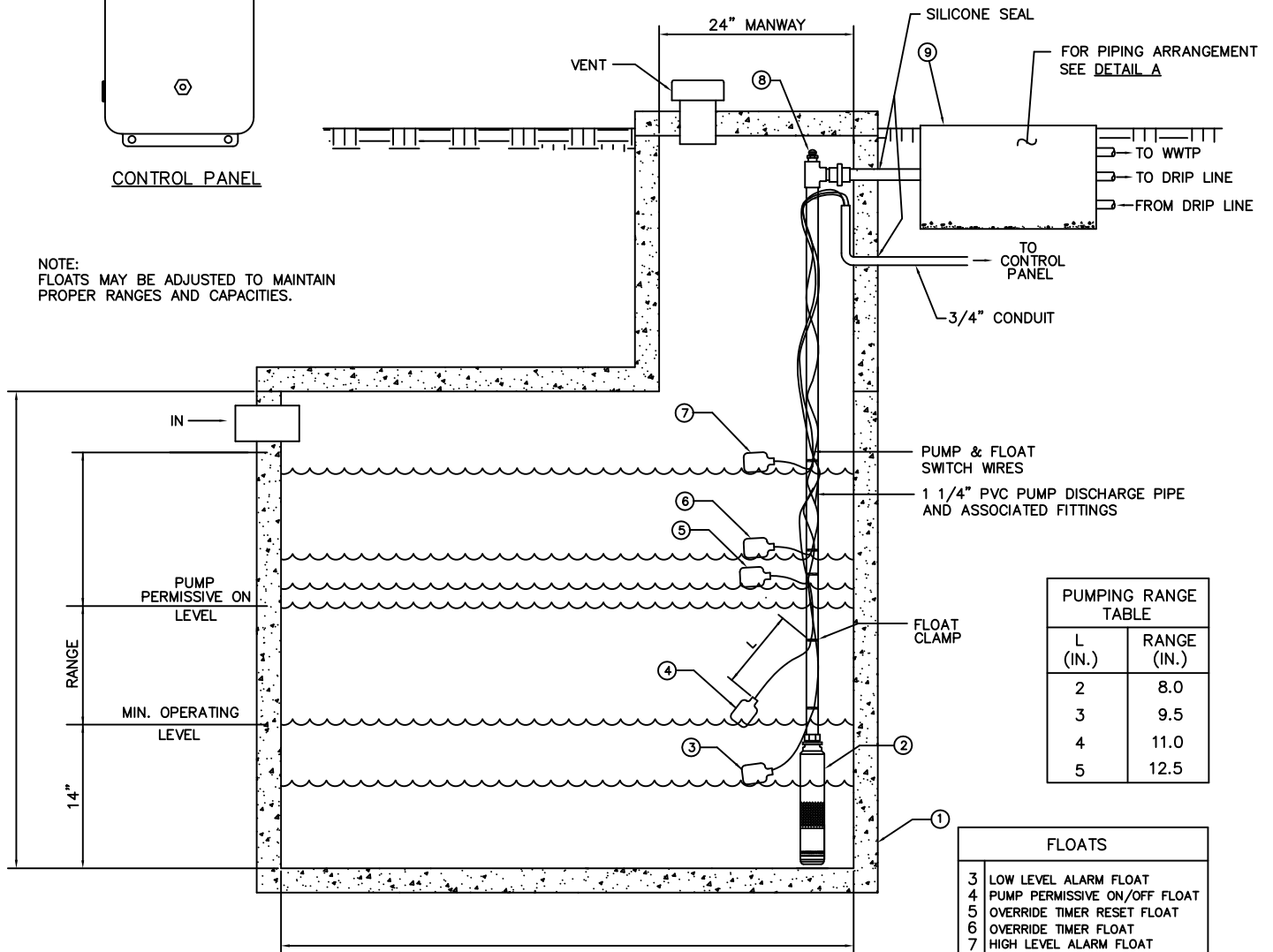
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2/6

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CP8115/S/2



NOTE:
FLOATS MAY BE ADJUSTED TO MAINTAIN
PROPER RANGES AND CAPACITIES.



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MODEL 8115/8230
FILTER CONTROL PANEL

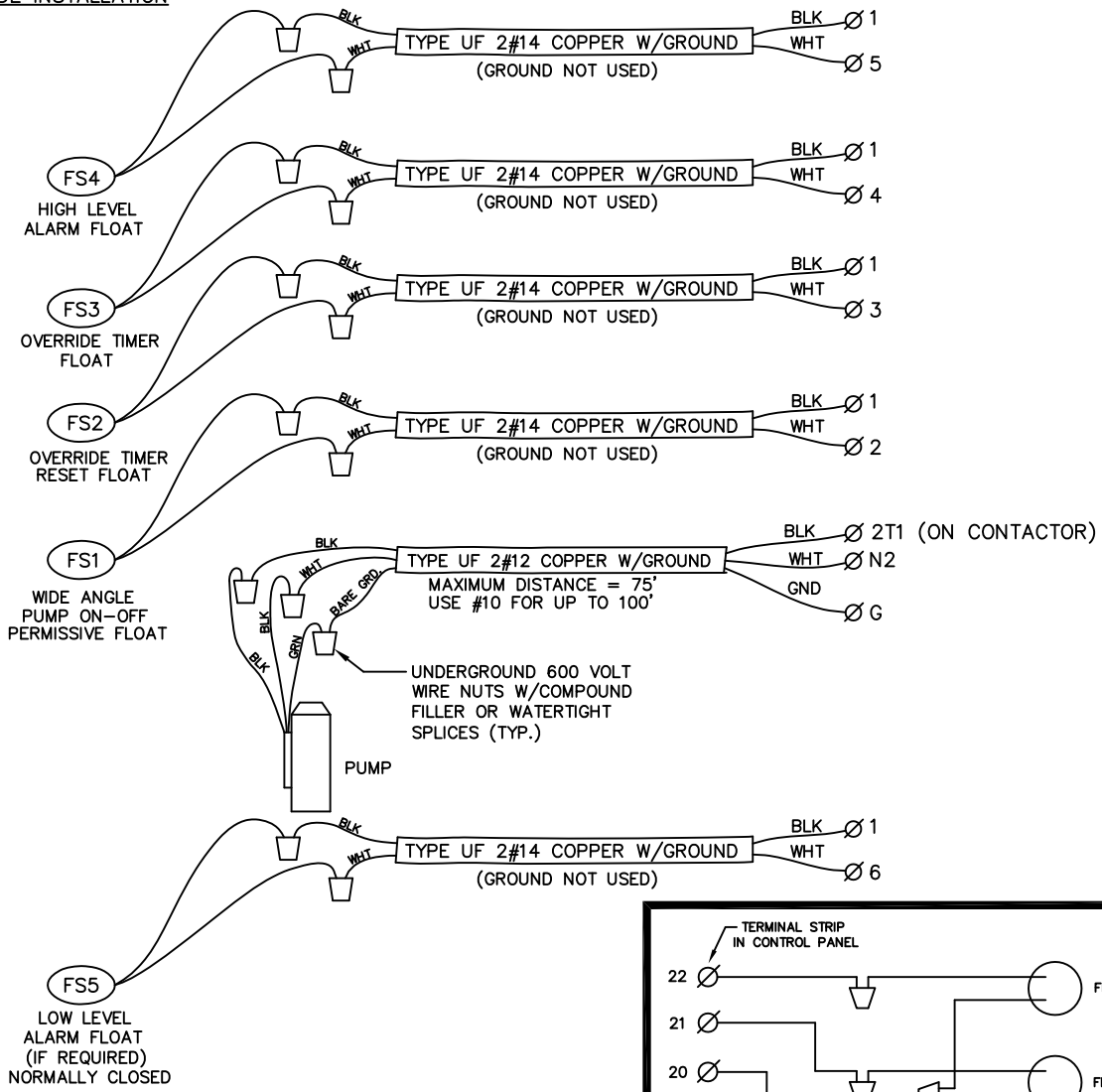
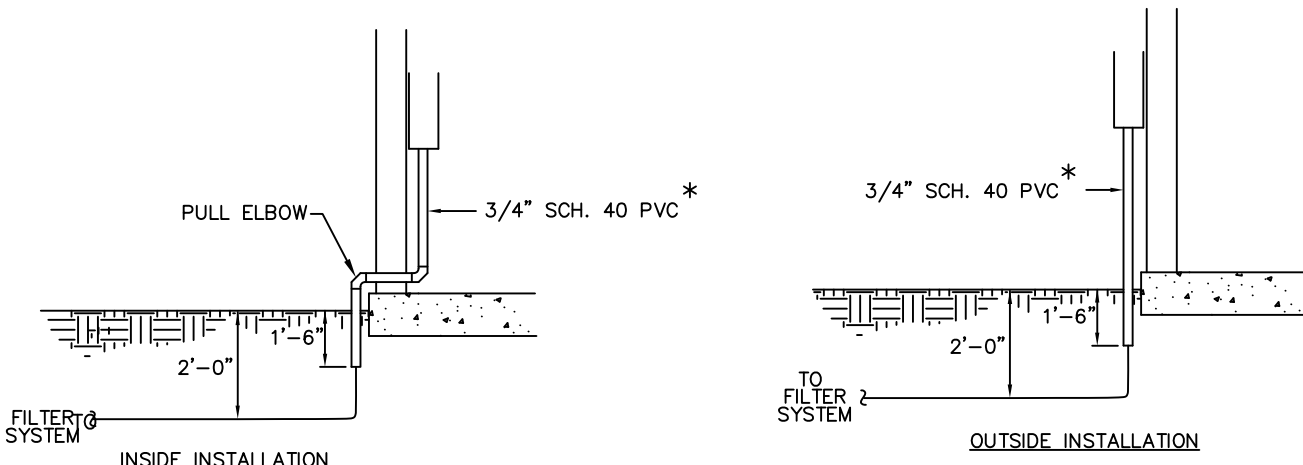
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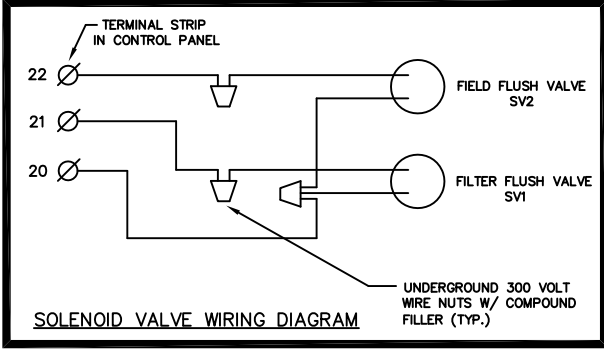
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N.T.S.

DWG. NO. :
3/6

JOB NO. :
CP8115/S/2



CONNECTIONS OF UNDERGROUND WIRE TO MOTOR AND FLOAT SWITCHES



Delta Treatment Systems
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ELECTRICAL INSTALLATION DRAWINGS
MODEL 8115-1/2HP
FILTER CONTROL PANEL

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FLOAT SELECTION CHART

<u>NUMBER OF FLOATS</u>	<u>FLOAT</u>				
	FS1	FS2	FS3	FS4	FS5
5 FLOAT SYSTEM	WA	S	S	S	S(N.C.)
4 FLOAT SYSTEM	WA	S	S	S	—
3 FLOAT SYSTEM	WA	—	WA	S	—
2 FLOAT SYSTEM	WA	—	—	WA	—

WA = NORMALLY OPEN WIDE ANGLE
HIGH OR LOW CURRENT RATING

S = NORMALLY OPEN STANDARD NON-WIDE ANGLE
HIGH OR LOW CURRENT RATING

N.C. = NORMALLY CLOSED FLOAT

FS1 – WIDE ANGLE FLOAT THAT WILL ALLOW THE PUMP TO START WHEN UP,
AND WILL STOP THE PUMP WHEN DOWN. IT KEEPS THE PUMP FROM RUNNING DRY.

FS2 – WHEN DOWN, RESETS THE OVERRIDE FUNCTION.

FS3 – WHEN UP, STARTS A PUMP CYCLE AND OPERATES ON A SHORT PUMP CYCLE UNTIL
FS2 DROPS.

FS4 – WHEN UP, ALARMS HIGH LEVEL. DOES NOT START PUMP.

FS5 – WHEN DOWN, ALARMS LOW LEVEL. DOES NOT STOP PUMP.



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FLOAT SELECTION CHART MODEL 8115/8230 FILTER CONTROL PANEL

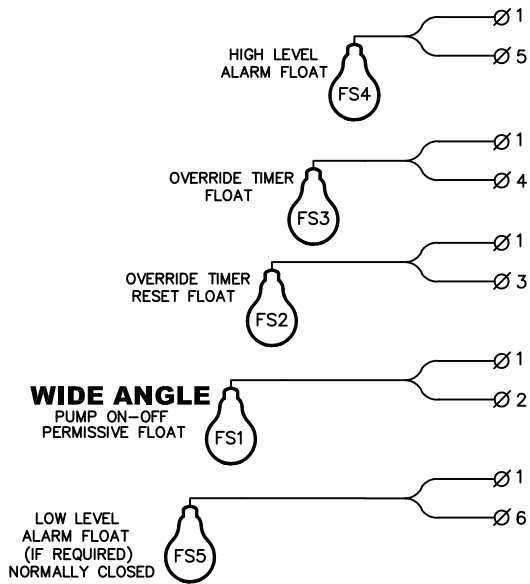
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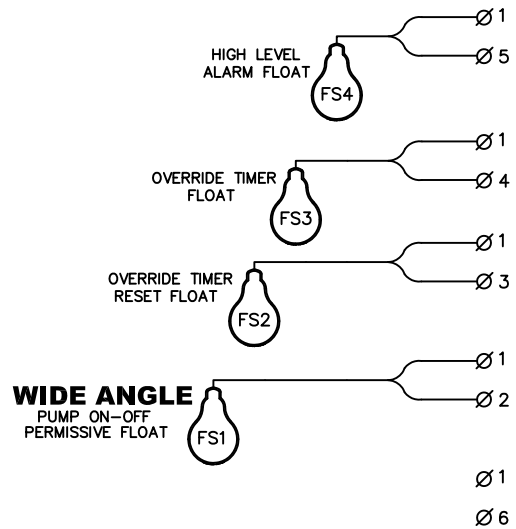
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5/6

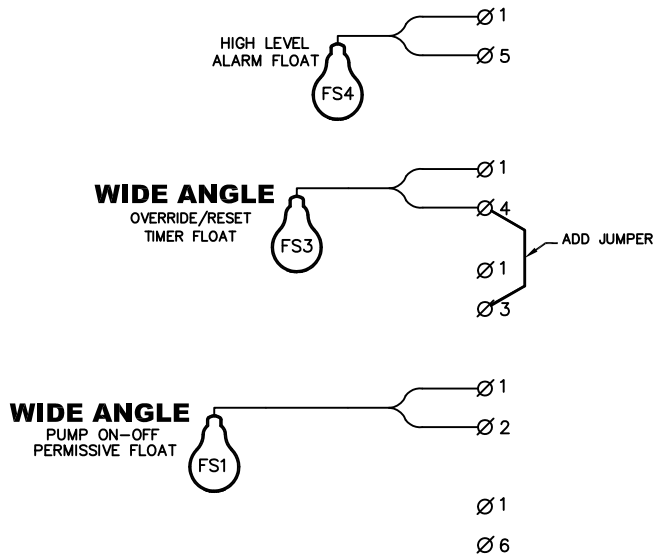
JOB NO. :
CP8115/S/2



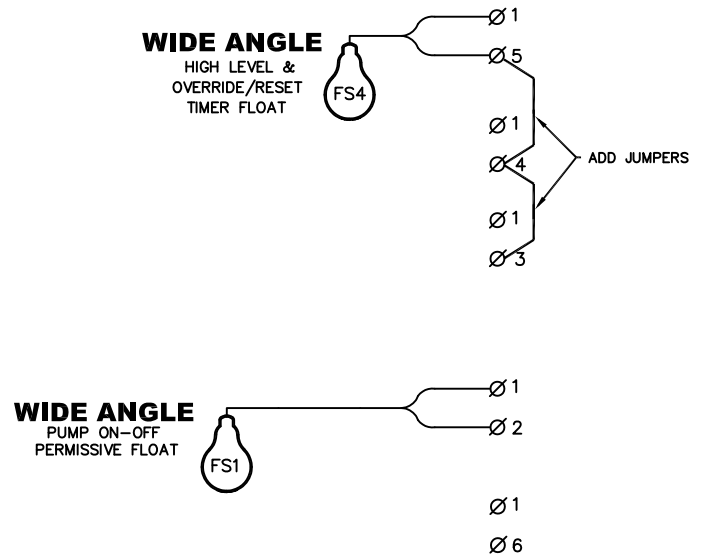
5 FLOAT SYSTEM



4 FLOAT SYSTEM



3 FLOAT SYSTEM



2 FLOAT SYSTEM



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CONNECTION OF FLOATS
MODEL 8115/8230
FILTER CONTROL PANEL

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DATE:
02/07/18

SCALE:
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DWG. NO. :
6/6

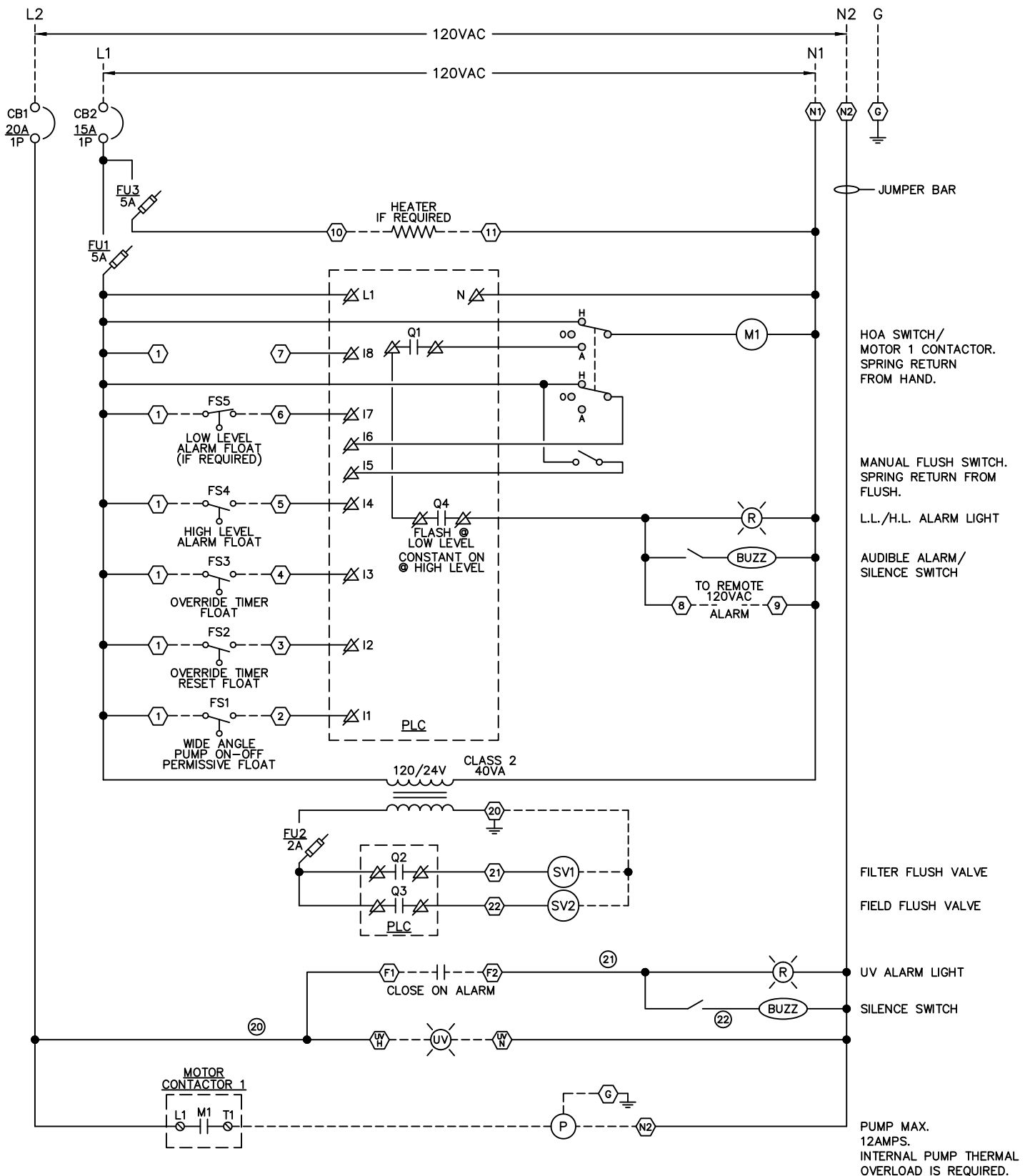
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CP8115/S/2/SUV
MODEL CP8000 SERIES
FILTER PANEL



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Walker, LA 70785
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PROGRAM: 8000 R3



Delta Treatment Systems
9125 Comar Drive Walker, LA 70782

SCHEMATIC DIAGRAM DUAL CIRCUIT, 120VAC, SIMPLEX FILTER CONTROL PANEL

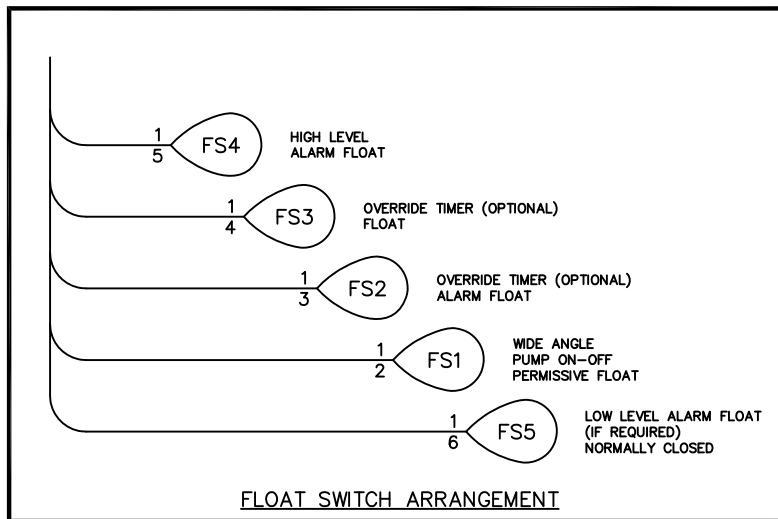
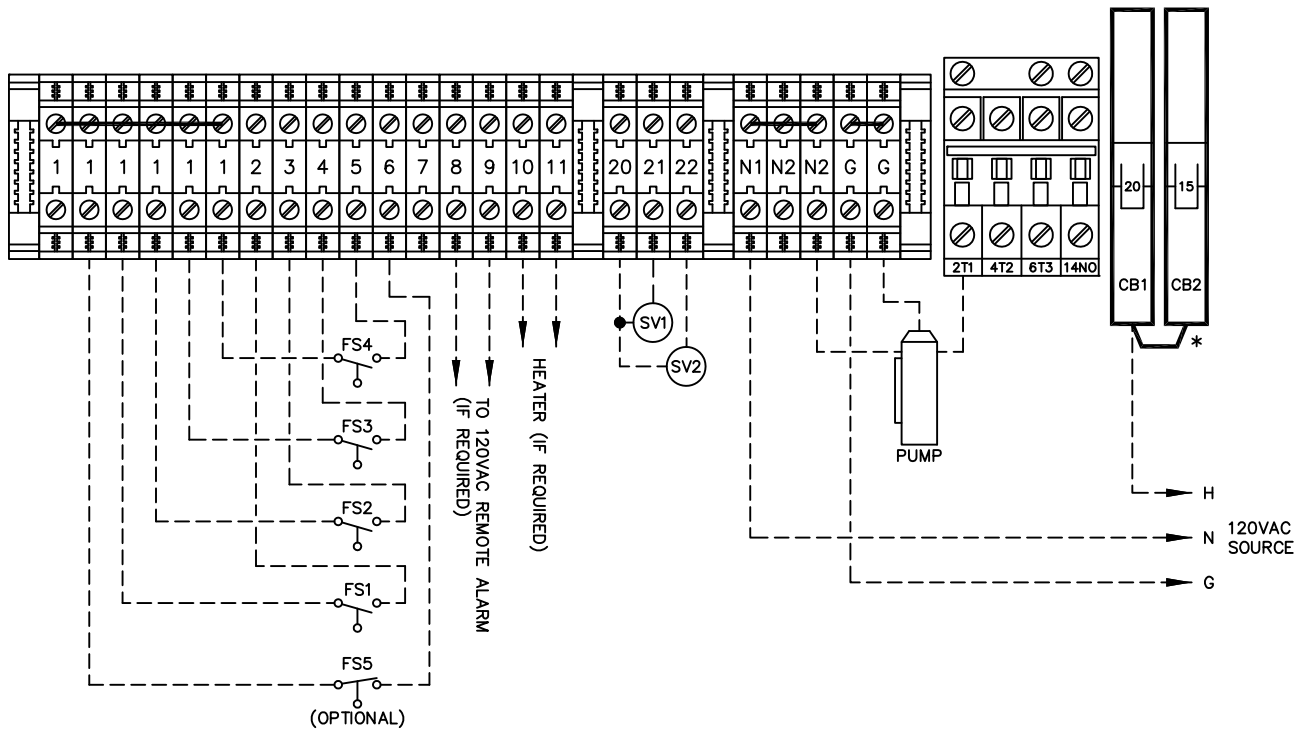
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SCALE:
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1/6

JOB NO. :
CP8115/S/2/SUV



* EXISTING JUMPER
LEAVE UNDISTURBED
UNLESS MULTIPLE
CIRCUITS REQUIRED.



Delta Treatment Systems
9125 Comar Drive Walker, LA 70782

EXTERNAL SYSTEM
MODEL 8115-1/2HP
FILTER CONTROL PANEL

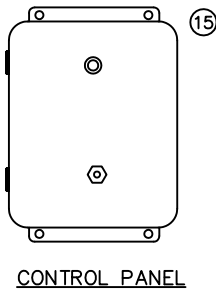
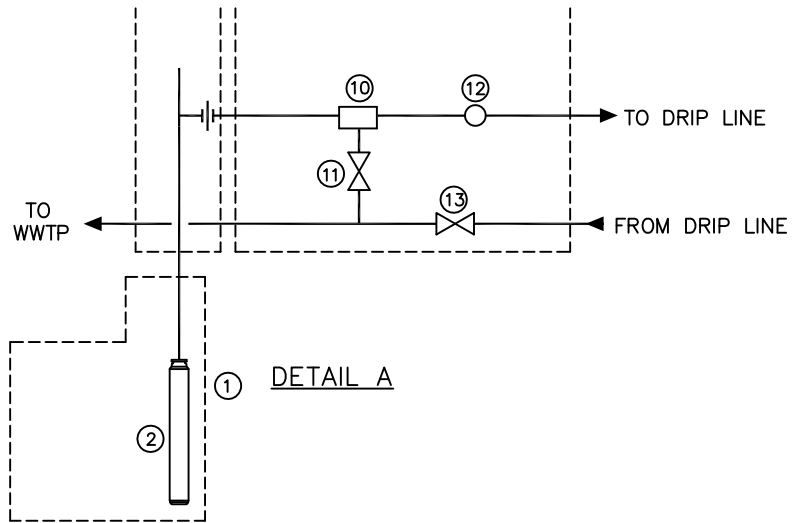
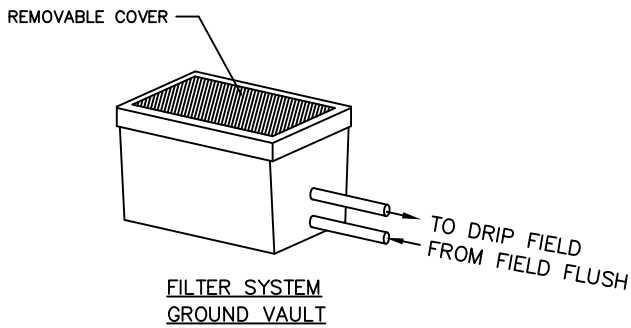
DWN BY:
E.ECKER/ECK

DATE:
02/07/18

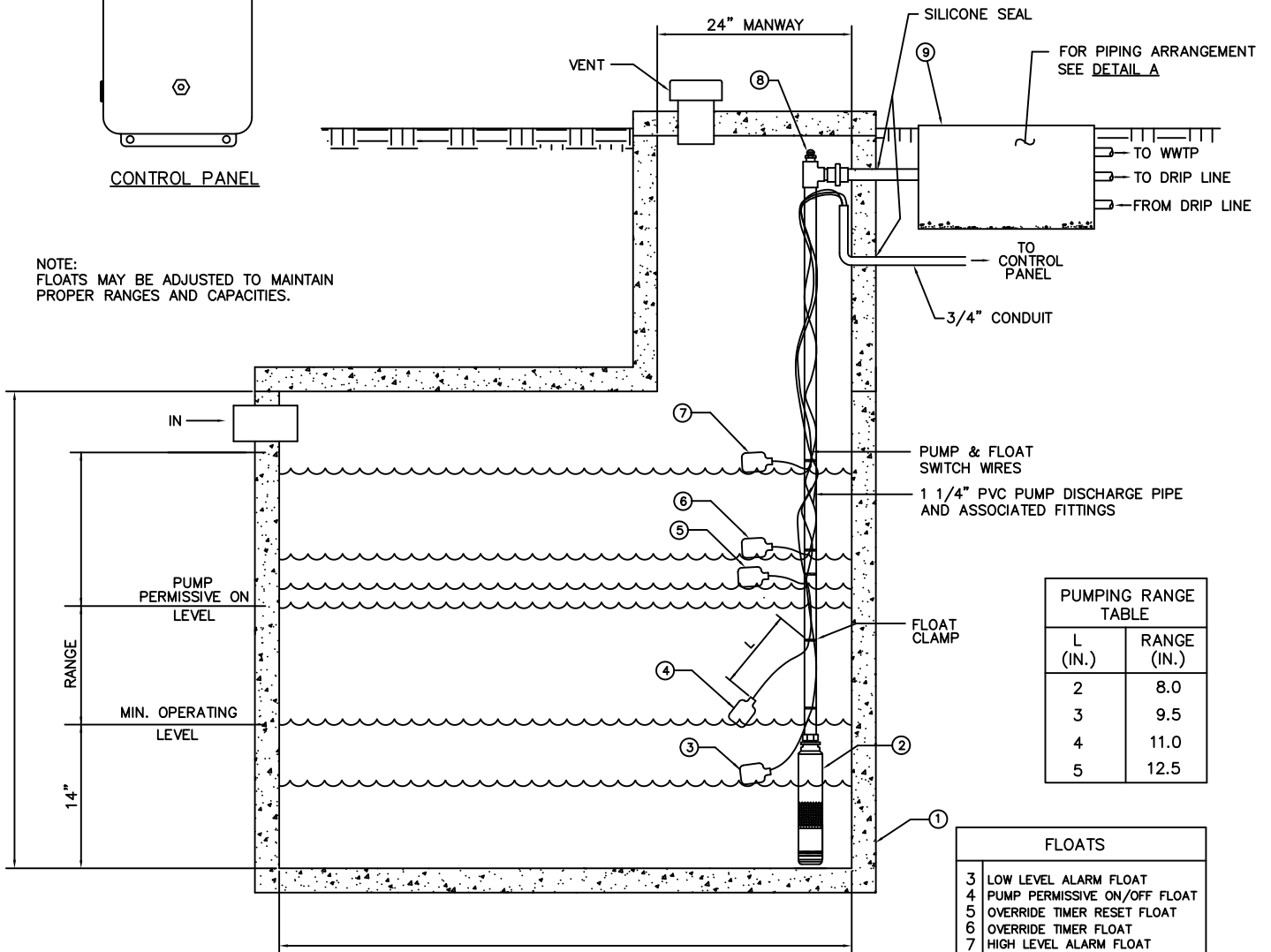
SCALE:
N.T.S.

DWG. NO. :
2/6

JOB NO. :
CP8115/S/2/SUV



NOTE:
FLOATS MAY BE ADJUSTED TO MAINTAIN
PROPER RANGES AND CAPACITIES.



Delta Treatment Systems
9125 Comar Drive Walker, LA 70782

MODEL 8115/8230
FILTER CONTROL PANEL

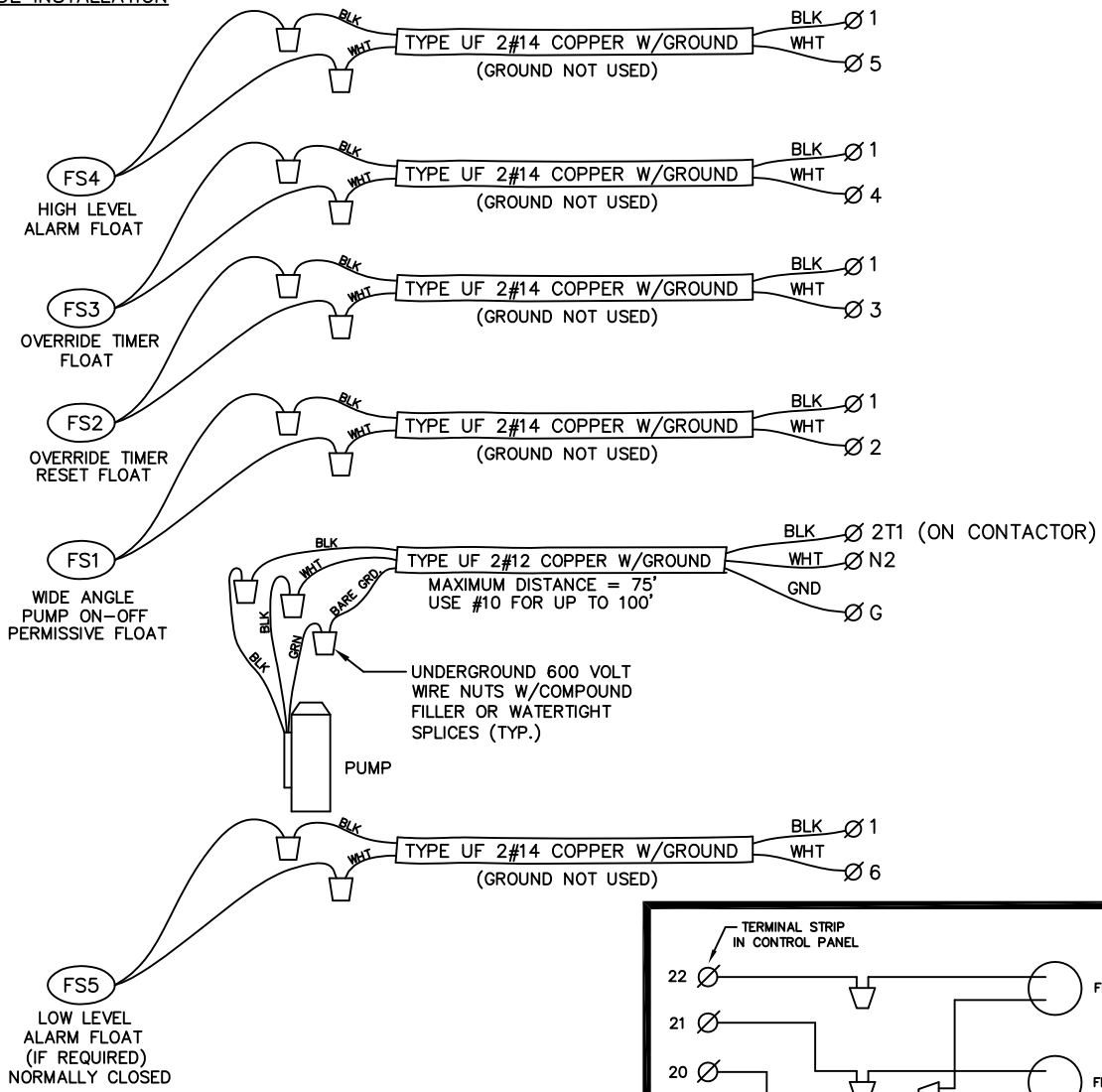
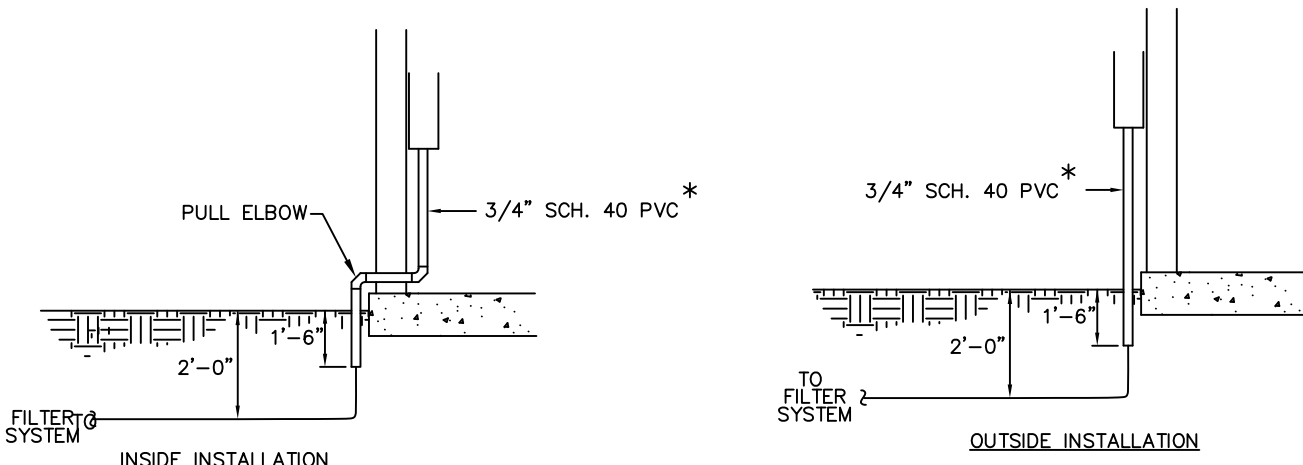
DWN BY:
E.ECKER/ECK

DATE:
02/07/18

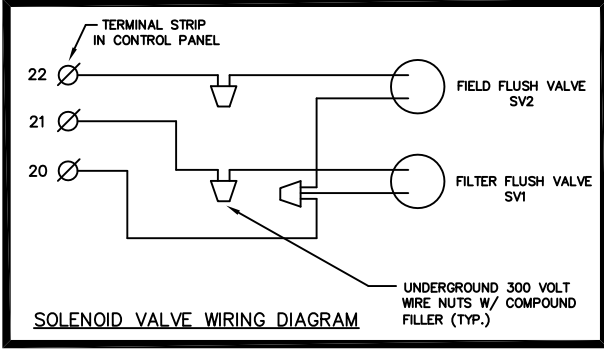
SCALE:
N.T.S.

DWG. NO. :
3/6

JOB NO. :
CP8115/S/2/SUV



CONNECTIONS OF UNDERGROUND WIRE TO MOTOR AND FLOAT SWITCHES



Delta Treatment Systems
9125 Comar Drive Walker, LA 70782

ELECTRICAL INSTALLATION DRAWINGS
MODEL 8115-1/2HP
FILTER CONTROL PANEL

DWN BY:
E.ECKER/ECK

DATE:
02/07/18

SCALE:
N.T.S.

DWG. NO. :
4/6

JOB NO. :
CP8115/S/2/SUV

FLOAT SELECTION CHART

<u>NUMBER OF FLOATS</u>	<u>FLOAT</u>				
	FS1	FS2	FS3	FS4	FS5
5 FLOAT SYSTEM	WA	S	S	S	S(N.C.)
4 FLOAT SYSTEM	WA	S	S	S	—
3 FLOAT SYSTEM	WA	—	WA	S	—
2 FLOAT SYSTEM	WA	—	—	WA	—

WA = NORMALLY OPEN WIDE ANGLE
HIGH OR LOW CURRENT RATING

S = NORMALLY OPEN STANDARD NON-WIDE ANGLE
HIGH OR LOW CURRENT RATING

N.C. = NORMALLY CLOSED FLOAT

FS1 – WIDE ANGLE FLOAT THAT WILL ALLOW THE PUMP TO START WHEN UP,
AND WILL STOP THE PUMP WHEN DOWN. IT KEEPS THE PUMP FROM RUNNING DRY.

FS2 – WHEN DOWN, RESETS THE OVERRIDE FUNCTION.

FS3 – WHEN UP, STARTS A PUMP CYCLE AND OPERATES ON A SHORT PUMP CYCLE UNTIL
FS2 DROPS.

FS4 – WHEN UP, ALARMS HIGH LEVEL. DOES NOT START PUMP.

FS5 – WHEN DOWN, ALARMS LOW LEVEL. DOES NOT STOP PUMP.



Delta Treatment Systems
9125 Comar Drive Walker, LA 70782

FLOAT SELECTION CHART MODEL 8115/8230 FILTER CONTROL PANEL

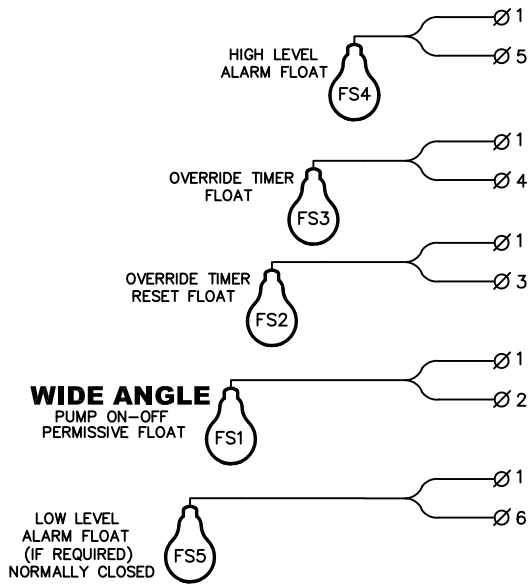
DWN BY:
E.ECKER/ECK

DATE:
02/07/18

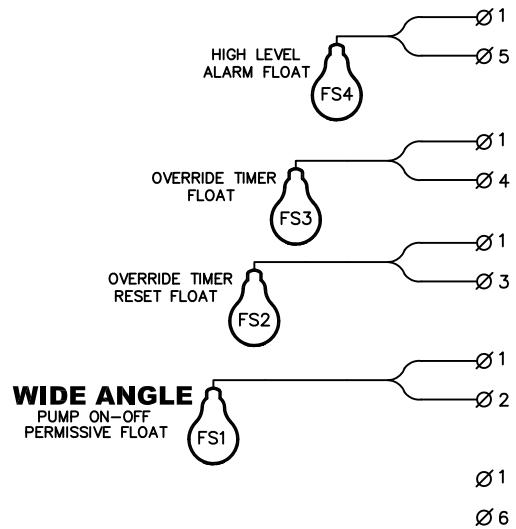
SCALE:
N.T.S.

DWG. NO. :
5/6

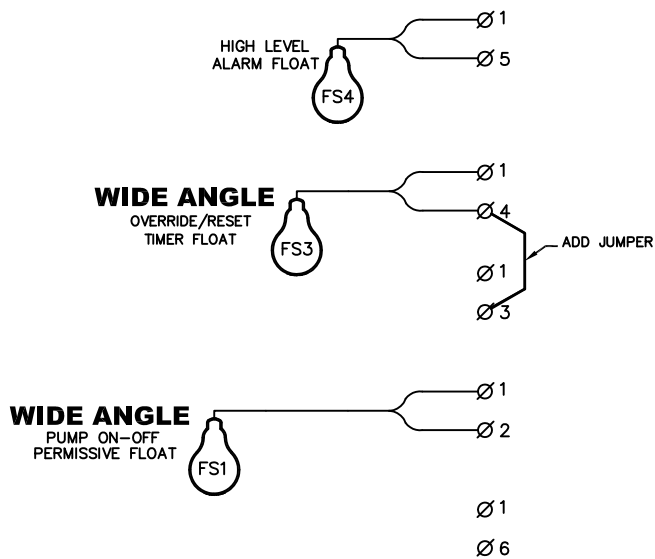
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CP8115/S/2/SUV



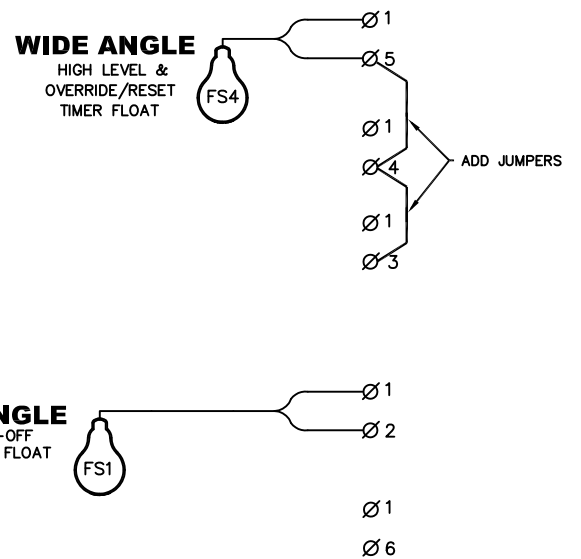
5 FLOAT SYSTEM



4 FLOAT SYSTEM



3 FLOAT SYSTEM



2 FLOAT SYSTEM



Delta Treatment Systems
9125 Comar Drive Walker, LA 70782

CONNECTION OF FLOATS
MODEL 8115/8230
FILTER CONTROL PANEL

DWN BY:
E.ECKER/ECK

DATE:
02/07/18

SCALE:
N.T.S.

DWG. NO. :
6/6

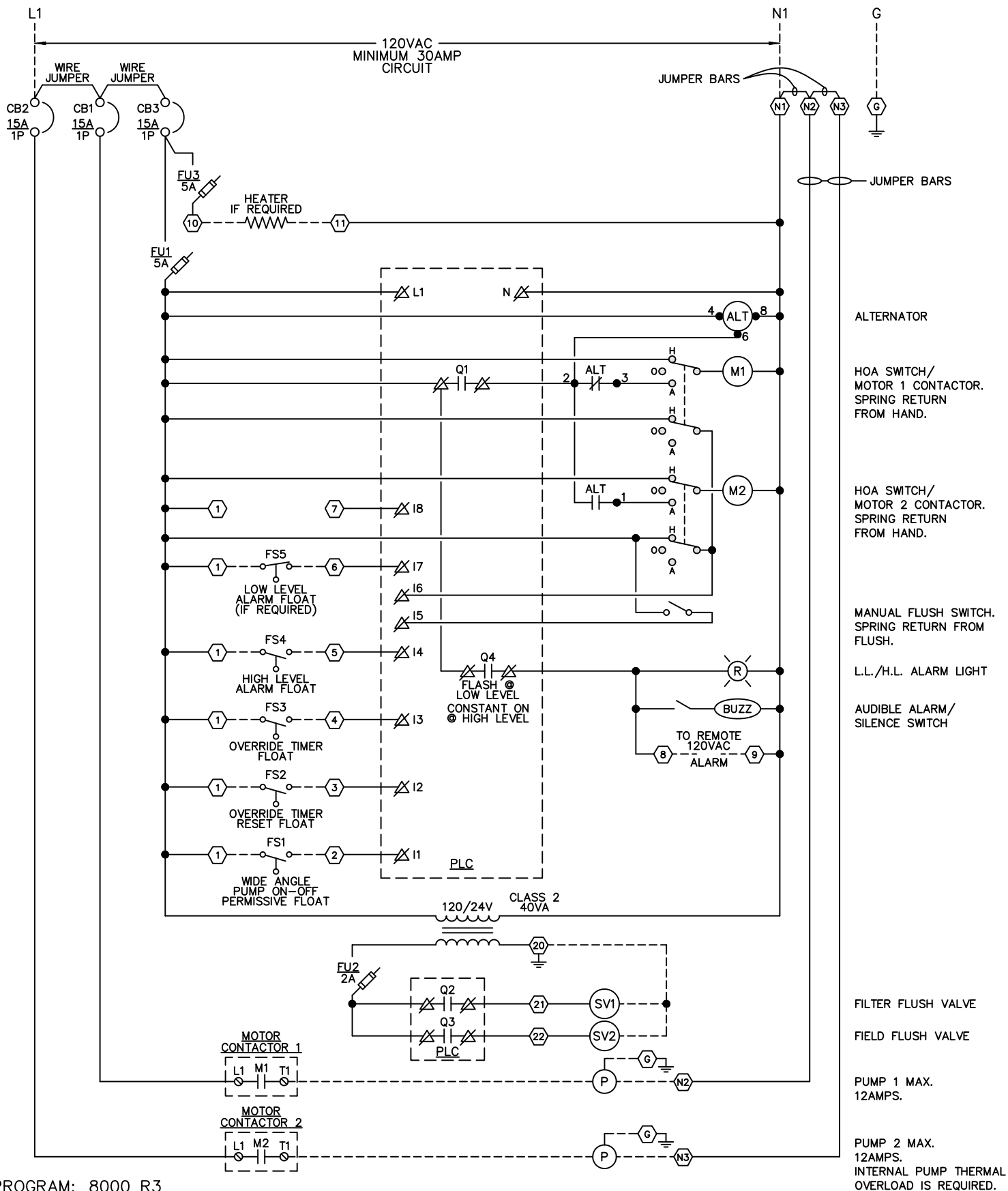
JOB NO. :
CP8115/S/2/SUV



CP8115/D/1
MODEL CP8000 SERIES
FILTER PANEL



Delta Treatment Systems
9125 Comar Drive
Walker, LA 70785
(225) 665-6162 Fax (800) 219-9183



PROGRAM: 8000 R3



Delta Treatment Systems
9125 Comar Drive Walker, LA 70782

SCHEMATIC DIAGRAM
SINGLE CIRCUIT, 120VAC, DUPLEX
FILTER CONTROL PANEL

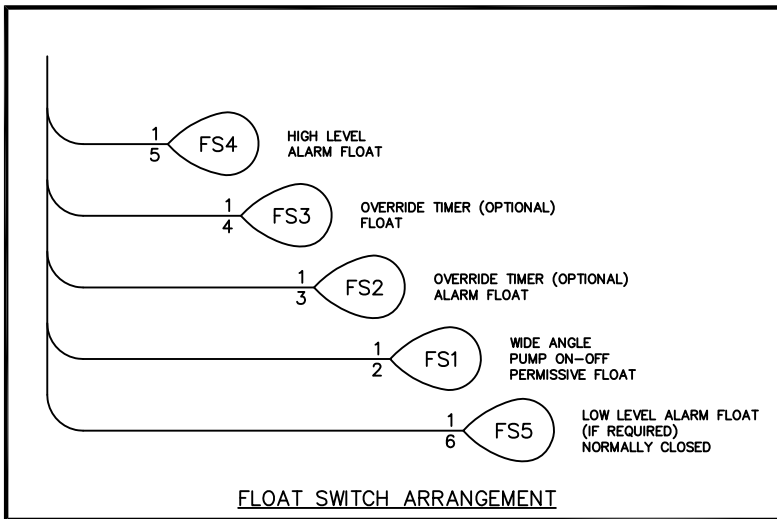
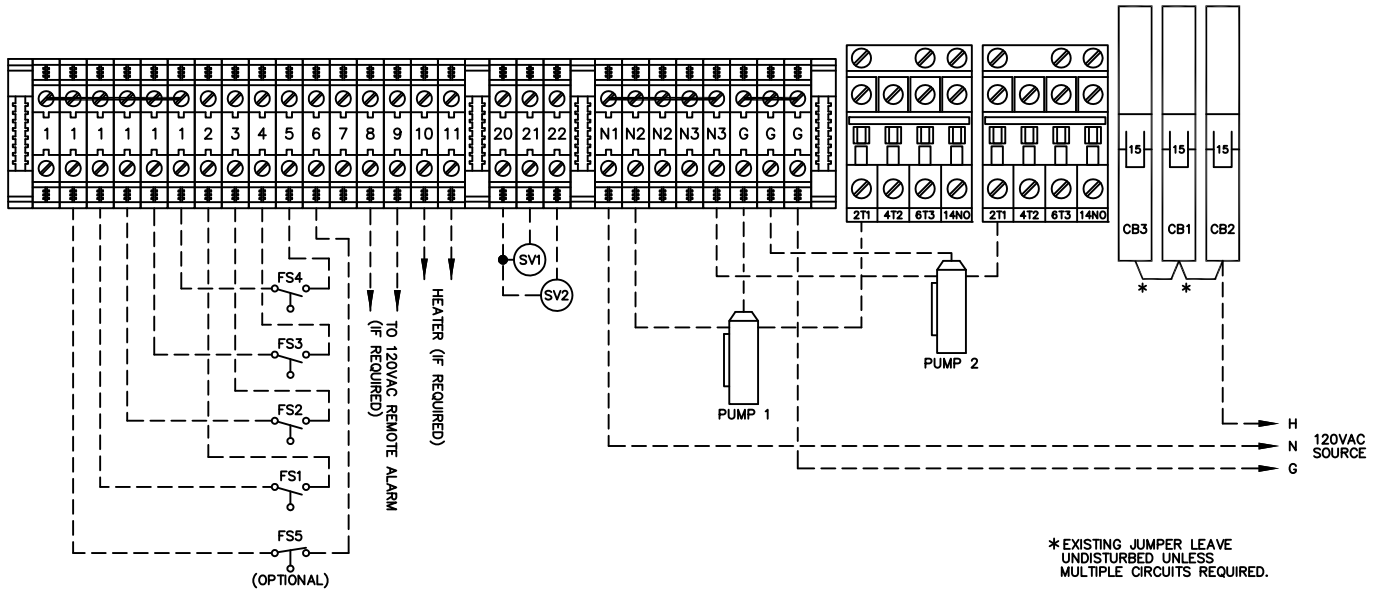
DWN BY:
E.ECKER/ECK

DATE:
02/07/18

SCALE:
N.T.S.

DWG. NO. :
1/6

JOB NO. :
CP8115/D/1



Delta Treatment Systems
9125 Comar Drive Walker, LA 70782

EXTERNAL SYSTEM
MODEL 8115-1/2HP
FILTER CONTROL PANEL

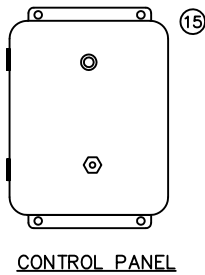
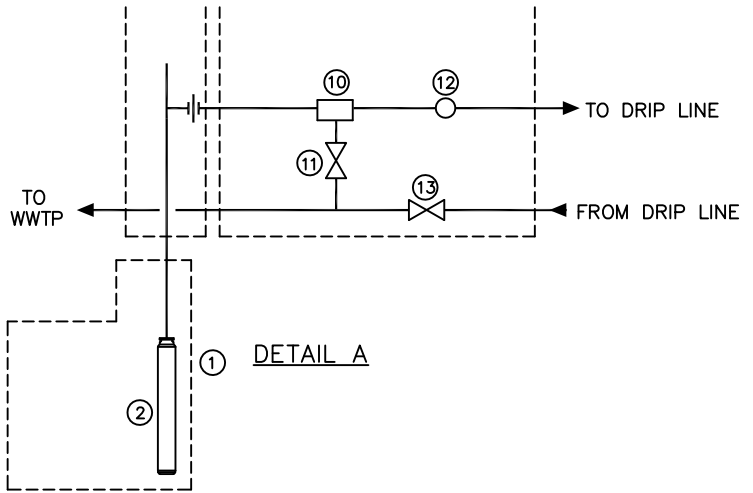
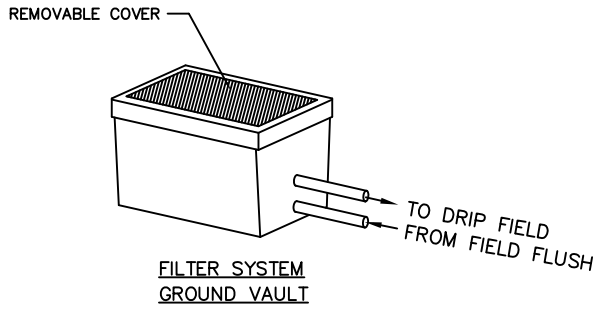
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E.ECKER/ECK

DATE:
02/07/18

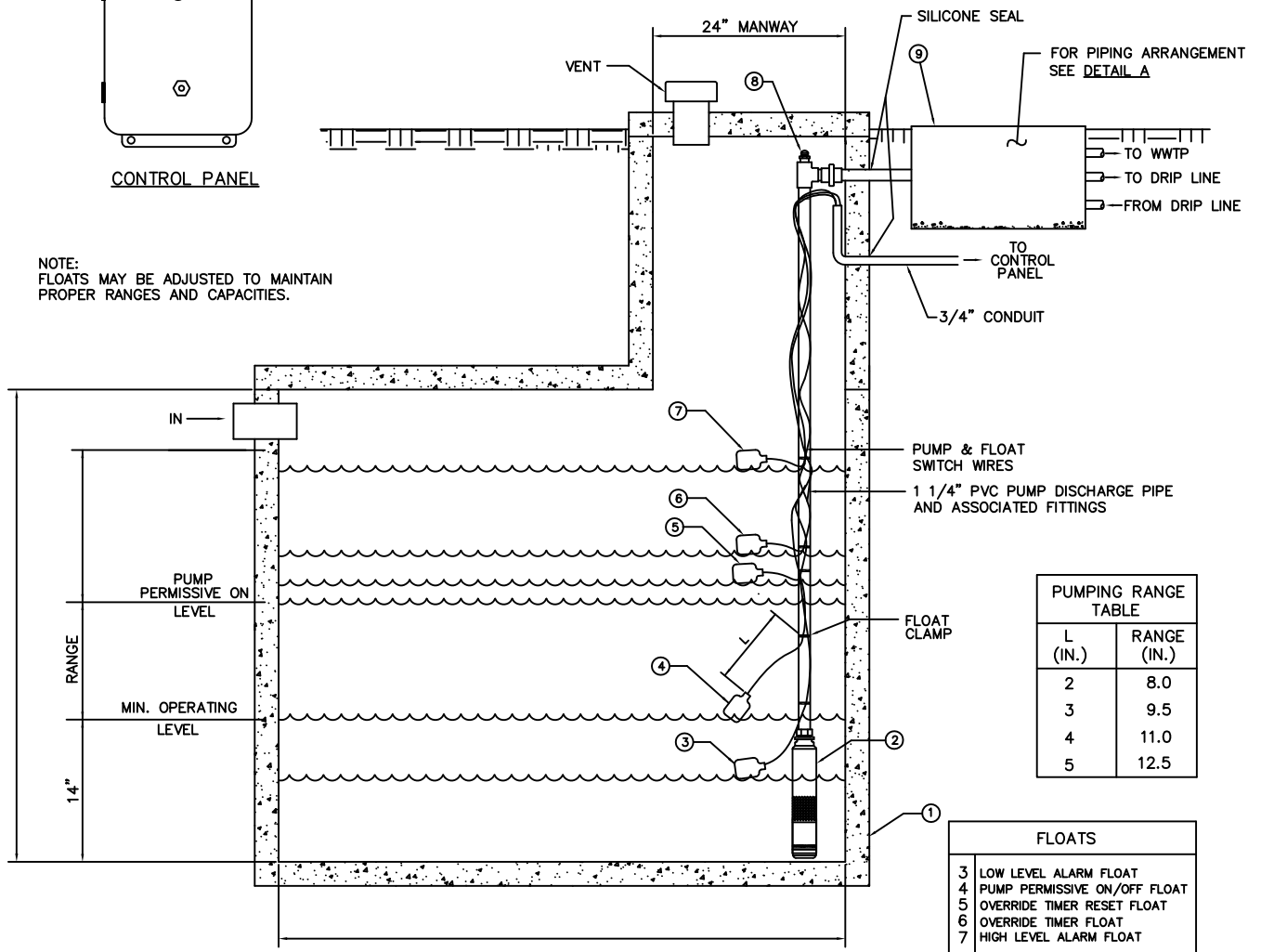
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DWG. NO. :
2/6

JOB NO. :
CP8115/D/1



NOTE:
FLOATS MAY BE ADJUSTED TO MAINTAIN
PROPER RANGES AND CAPACITIES.



GENERAL ARRANGEMENT



Delta Treatment Systems
9125 Comar Drive Walker, LA 70782

MODEL 8115/8230
FILTER CONTROL PANEL

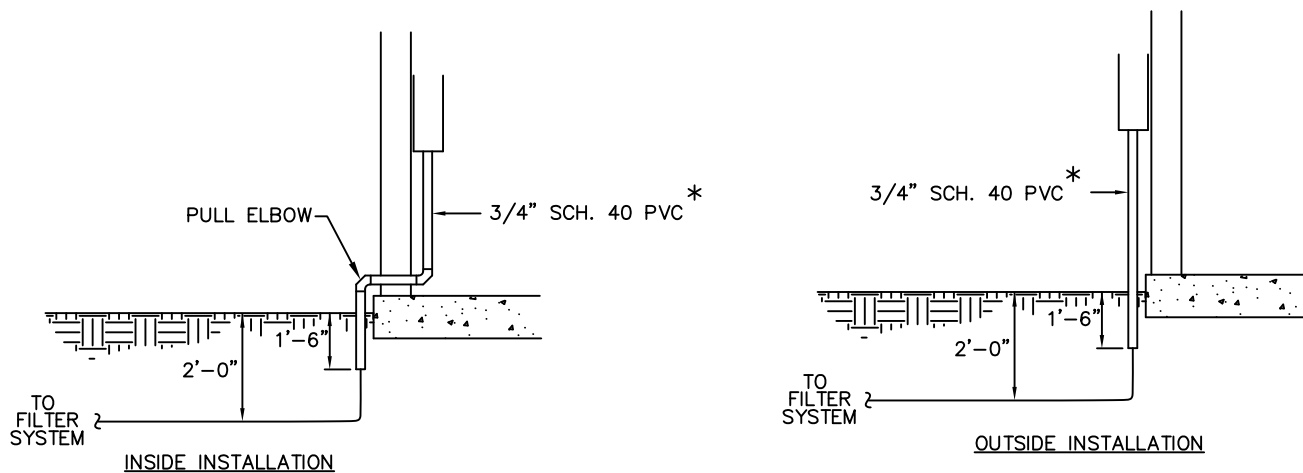
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E.ECKER/ECK

DATE:
02/07/18

SCALE:
N.T.S.

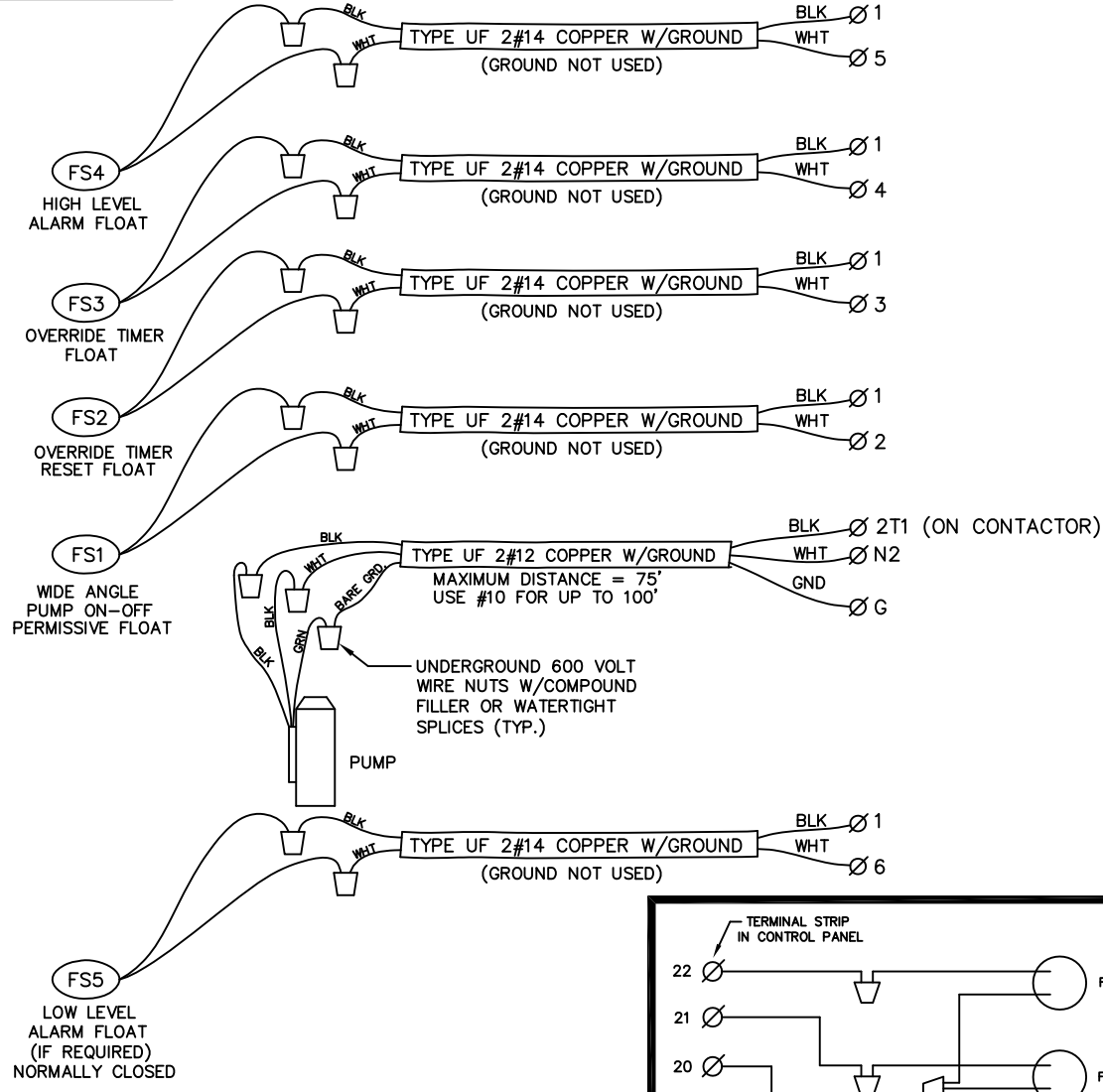
DWG. NO. :
3/6

JOB NO. :
CP8115/D/1

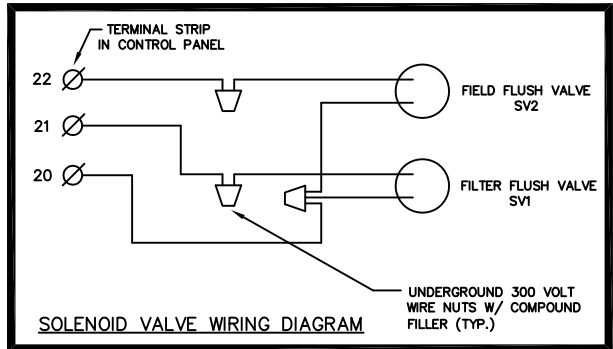


INSIDE INSTALLATION

OUTSIDE INSTALLATION



CONNECTIONS OF UNDERGROUND WIRE TO MOTOR AND FLOAT SWITCHES



Delta Treatment Systems
9125 Comar Drive Walker, LA 70782

ELECTRICAL INSTALLATION DRAWINGS
MODEL 8115/8230
FILTER CONTROL PANEL

DWN BY: E.ECKER/ECK	DATE: 02/07/18	SCALE: N.T.S.	DWG. NO. : 4/6	JOB NO. : CP8115/D/1
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FLOAT SELECTION CHART

<u>NUMBER OF FLOATS</u>	<u>FLOAT</u>				
	FS1	FS2	FS3	FS4	FS5
5 FLOAT SYSTEM	WA	S	S	S	S(N.C.)
4 FLOAT SYSTEM	WA	S	S	S	—
3 FLOAT SYSTEM	WA	—	WA	S	—
2 FLOAT SYSTEM	WA	—	—	WA	—

WA = NORMALLY OPEN WIDE ANGLE
HIGH OR LOW CURRENT RATING

S = NORMALLY OPEN STANDARD NON-WIDE ANGLE
HIGH OR LOW CURRENT RATING

N.C. = NORMALLY CLOSED FLOAT

FS1 – WIDE ANGLE FLOAT THAT WILL ALLOW THE PUMP TO START WHEN UP,
AND WILL STOP THE PUMP WHEN DOWN. IT KEEPS THE PUMP FROM RUNNING DRY.

FS2 – WHEN DOWN, RESETS THE OVERRIDE FUNCTION.

FS3 – WHEN UP, STARTS A PUMP CYCLE AND OPERATES ON A SHORT PUMP CYCLE UNTIL
FS2 DROPS.

FS4 – WHEN UP, ALARMS HIGH LEVEL. DOES NOT START PUMP.

FS5 – WHEN DOWN, ALARMS LOW LEVEL. DOES NOT STOP PUMP.



Delta Treatment Systems
9125 Comar Drive Walker, LA 70782

FLOAT SELECTION CHART
MODEL 8115/8230
FILTER CONTROL PANEL

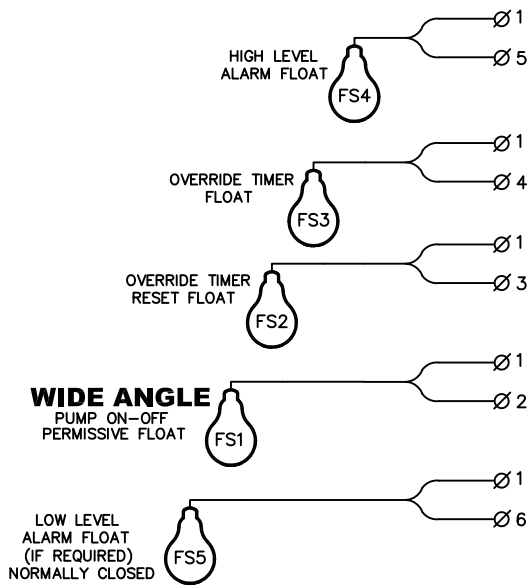
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E.ECKER/ECK

DATE:
02/07/18

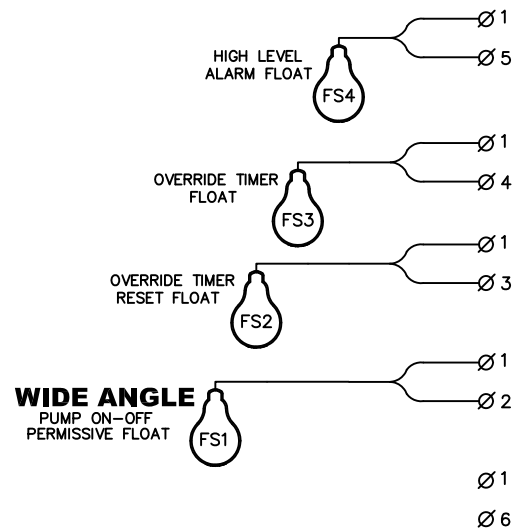
SCALE:
N.T.S.

DWG. NO. :
5/6

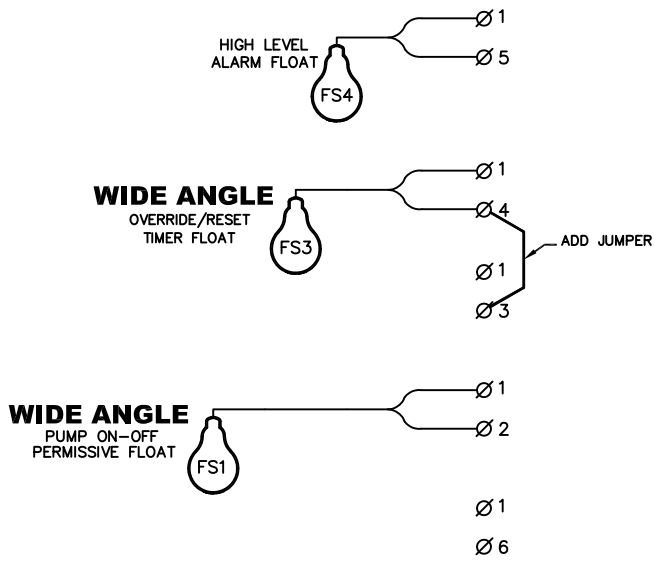
JOB NO. :
CP8115/D/1



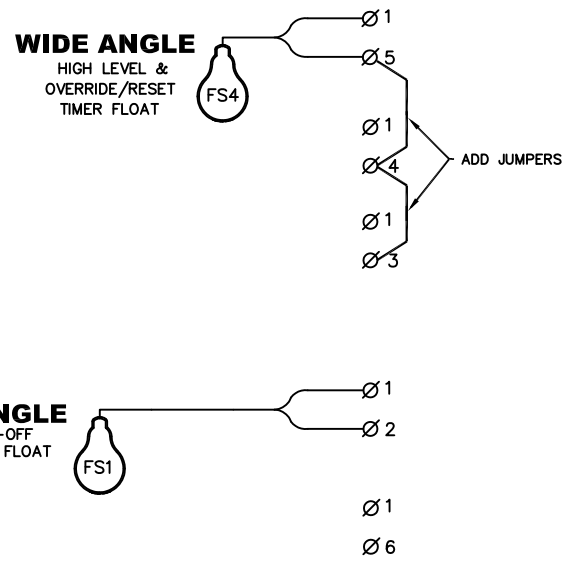
5 FLOAT SYSTEM



4 FLOAT SYSTEM



3 FLOAT SYSTEM



2 FLOAT SYSTEM



Delta Treatment Systems
9125 Comar Drive Walker, LA 70782

CONNECTION OF FLOATS
MODEL 8115/8230
FILTER CONTROL PANEL

DWN BY:
E.ECKER/ECK

DATE:
02/07/18

SCALE:
N.T.S.

DWG. NO. :
6/6

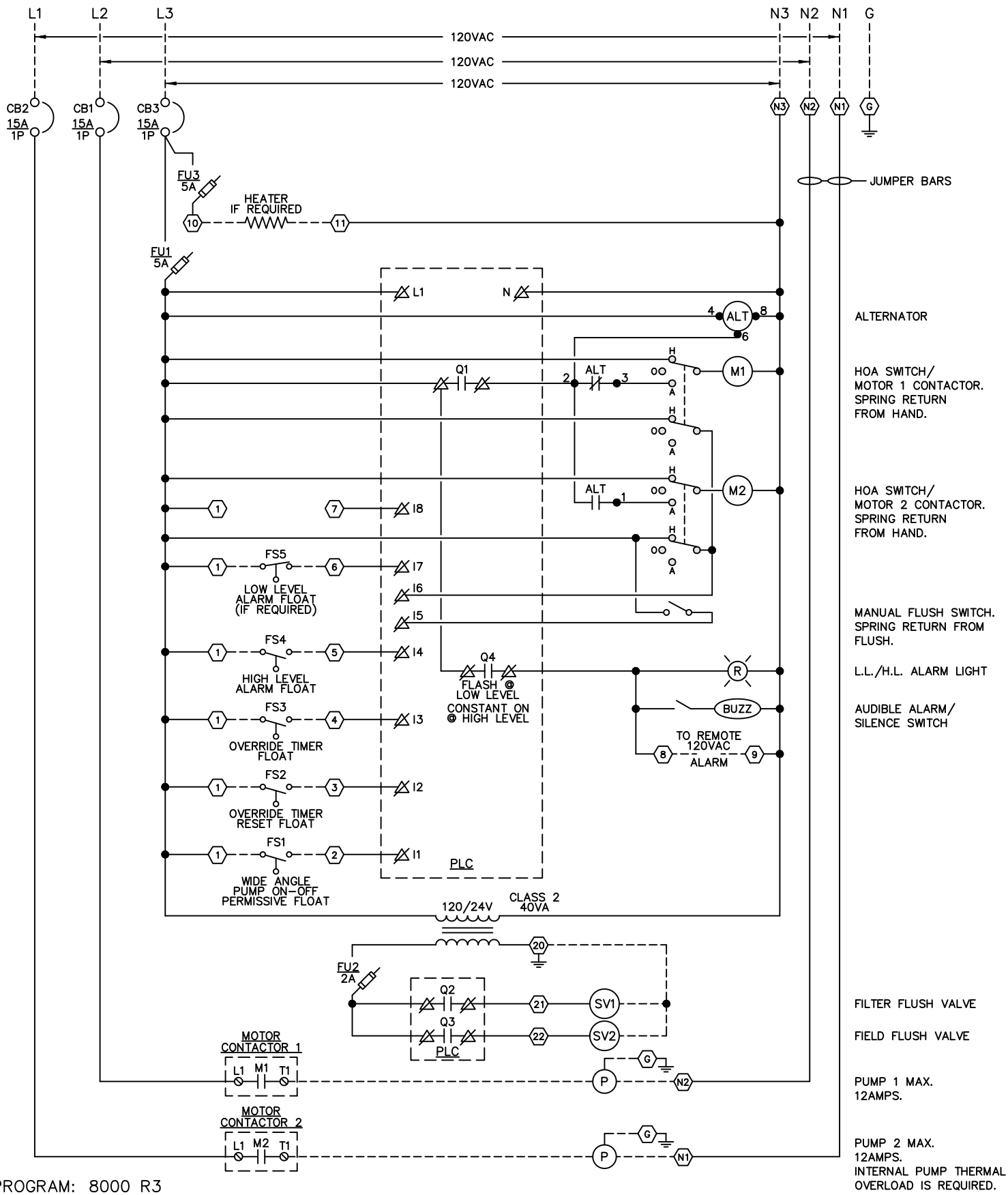
JOB NO. :
CP8115/D/1



CP8115/D/3
MODEL CP8000 SERIES
FILTER PANEL



Delta Treatment Systems
9125 Comar Drive
Walker, LA 70785
(225) 665-6162 Fax (800) 219-9183



PROGRAM: 8000 R3



Delta Treatment Systems
9125 Comar Drive Walker, LA 70782

SCHEMATIC DIAGRAM THREE CIRCUIT, 120VAC, DUPLEX FILTER CONTROL PANEL

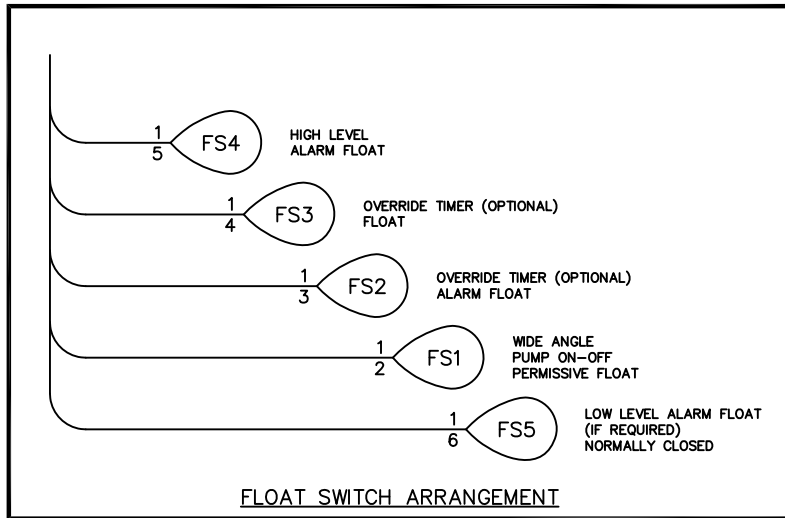
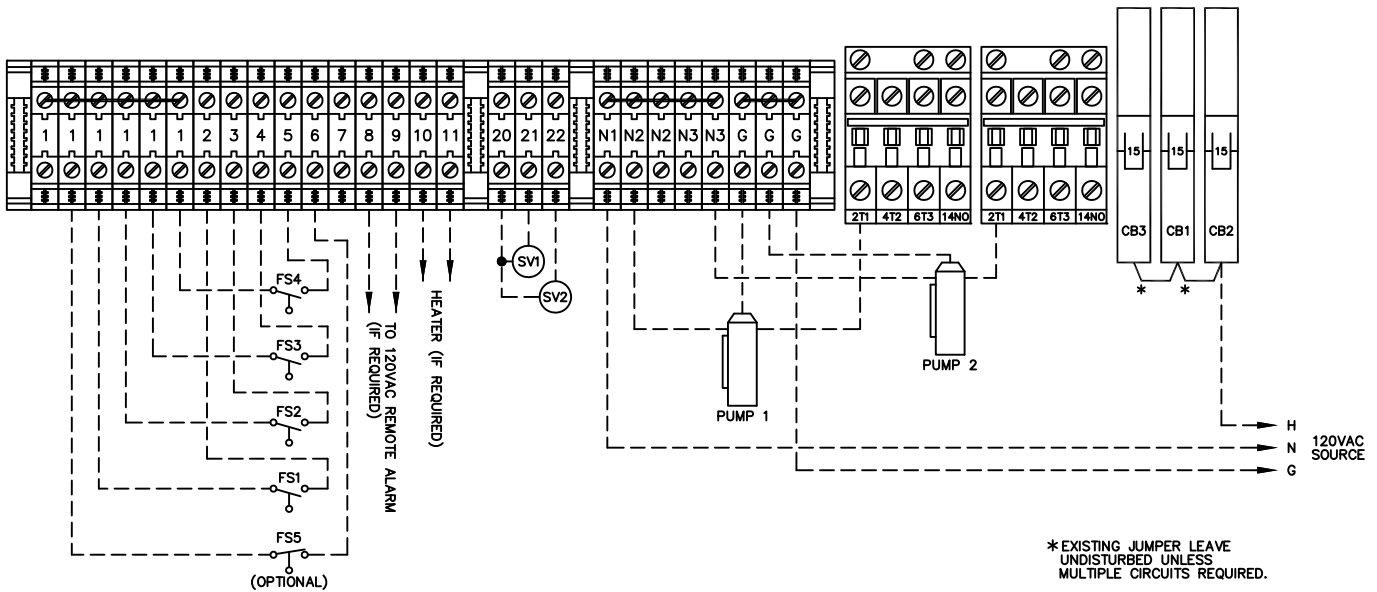
DWN BY:
E.ECKER/ECK

DATE:
02/07/18

SCALE:
N.T.S.

DWG. NO. :
1/6

JOB NO. :
CP8115/D/3



Delta Treatment Systems
9125 Comar Drive Walker, LA 70782

EXTERNAL SYSTEM
MODEL 8115-1/2HP
FILTER CONTROL PANEL

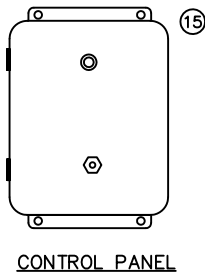
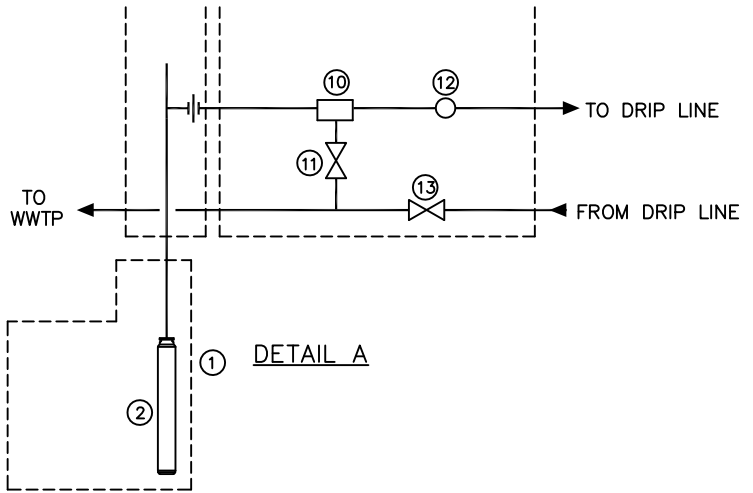
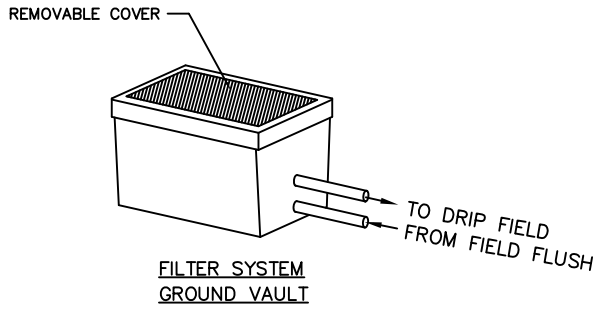
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E.ECKER/ECK

DATE:
02/07/18

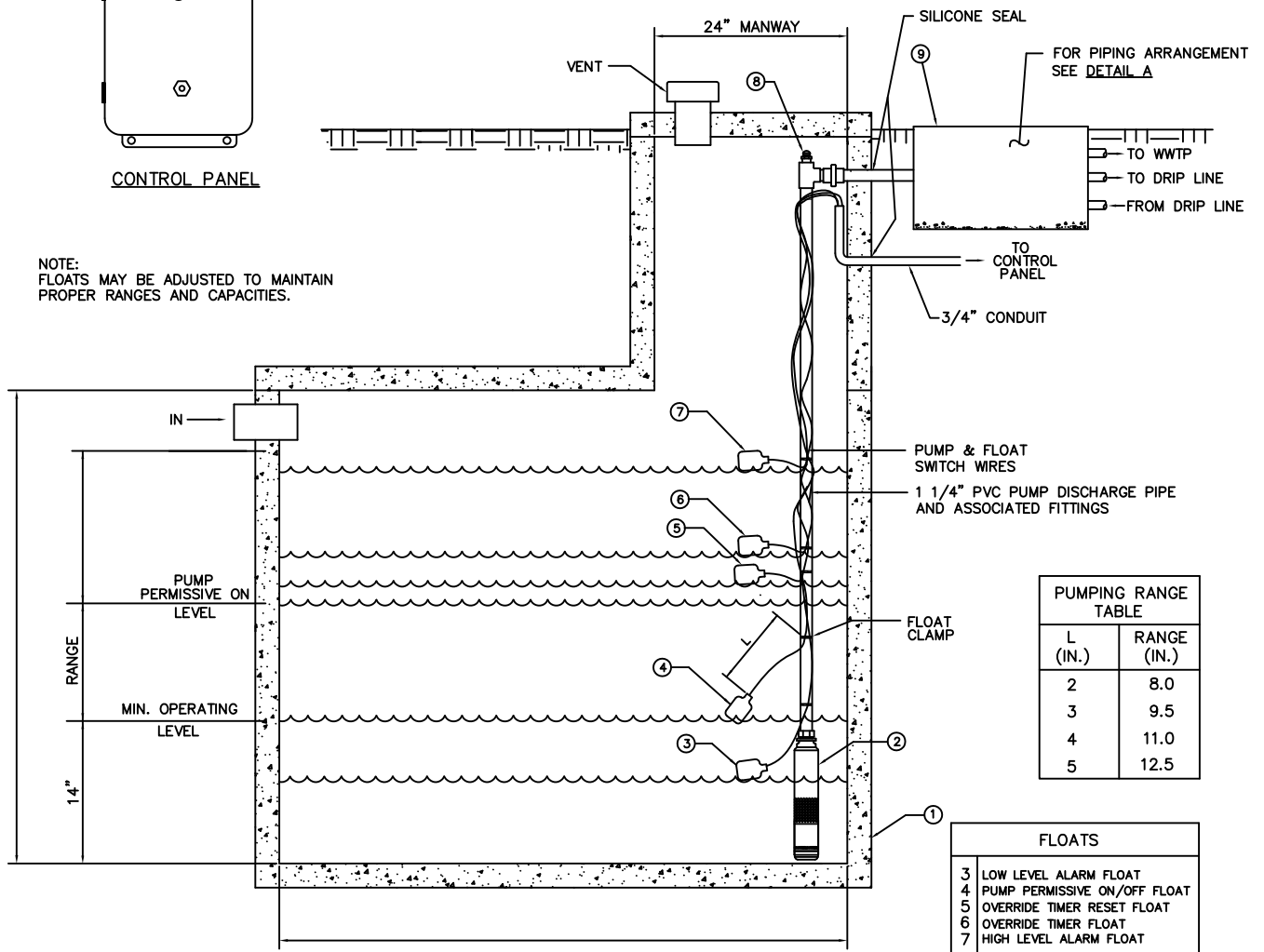
SCALE:
N.T.S.

DWG. NO. :
2/6

JOB NO. :
CP8115/D/3



NOTE:
FLOATS MAY BE ADJUSTED TO MAINTAIN
PROPER RANGES AND CAPACITIES.



PUMPING RANGE TABLE	
L (IN.)	RANGE (IN.)
2	8.0
3	9.5
4	11.0
5	12.5

FLOATS	
3	LOW LEVEL ALARM FLOAT
4	PUMP PERMISSIVE ON/OFF FLOAT
5	OVERRIDE TIMER RESET FLOAT
6	OVERRIDE TIMER FLOAT
7	HIGH LEVEL ALARM FLOAT



Delta Treatment Systems
9125 Comar Drive Walker, LA 70782

MODEL 8115/8230
FILTER CONTROL PANEL

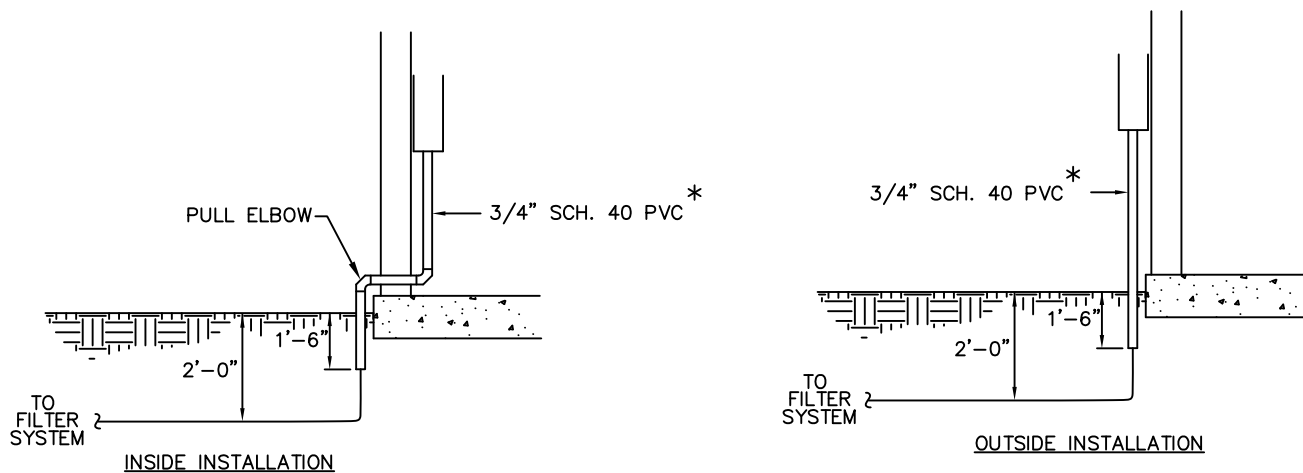
DWN BY:
E.ECKER/ECK

DATE:
02/07/18

SCALE:
N.T.S.

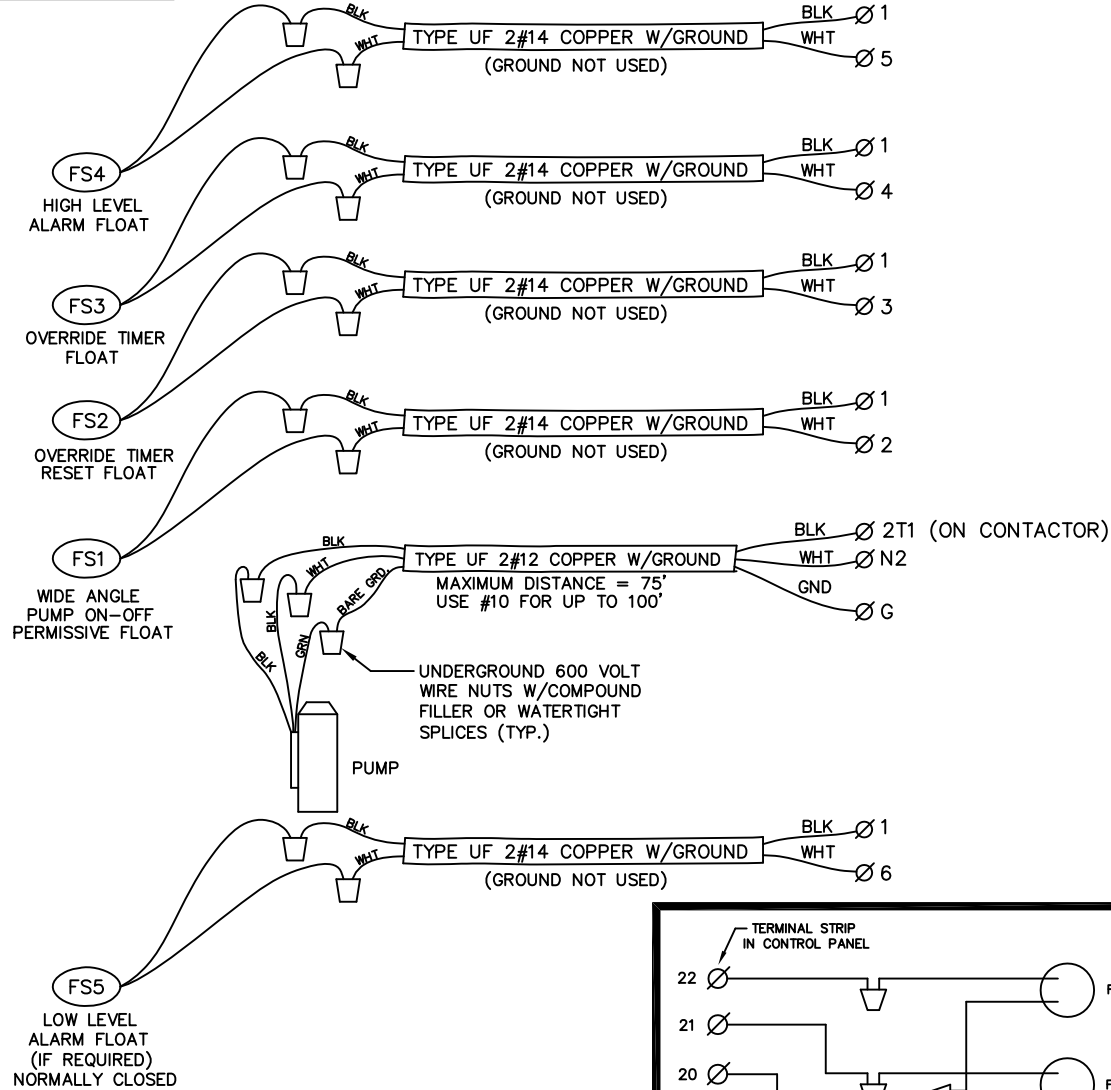
DWG. NO. :
3/6

JOB NO. :
CP8115/D/3

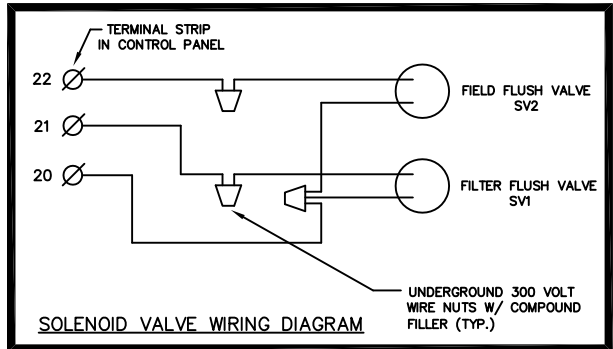


INSIDE INSTALLATION

OUTSIDE INSTALLATION



CONNECTIONS OF UNDERGROUND WIRE TO MOTOR AND FLOAT SWITCHES



Delta Treatment Systems
9125 Comar Drive Walker, LA 70782

ELECTRICAL INSTALLATION DRAWINGS
MODEL 8115/8230
FILTER CONTROL PANEL

DWN BY: E.ECKER/ECK	DATE: 02/07/18	SCALE: N.T.S.	DWG. NO. : 4/6	JOB NO. : CP8115/D/3
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FLOAT SELECTION CHART

<u>NUMBER OF FLOATS</u>	<u>FLOAT</u>				
	FS1	FS2	FS3	FS4	FS5
5 FLOAT SYSTEM	WA	S	S	S	S(N.C.)
4 FLOAT SYSTEM	WA	S	S	S	—
3 FLOAT SYSTEM	WA	—	WA	S	—
2 FLOAT SYSTEM	WA	—	—	WA	—

WA = NORMALLY OPEN WIDE ANGLE
HIGH OR LOW CURRENT RATING

S = NORMALLY OPEN STANDARD NON-WIDE ANGLE
HIGH OR LOW CURRENT RATING

N.C. = NORMALLY CLOSED FLOAT

FS1 – WIDE ANGLE FLOAT THAT WILL ALLOW THE PUMP TO START WHEN UP,
AND WILL STOP THE PUMP WHEN DOWN. IT KEEPS THE PUMP FROM RUNNING DRY.

FS2 – WHEN DOWN, RESETS THE OVERRIDE FUNCTION.

FS3 – WHEN UP, STARTS A PUMP CYCLE AND OPERATES ON A SHORT PUMP CYCLE UNTIL
FS2 DROPS.

FS4 – WHEN UP, ALARMS HIGH LEVEL. DOES NOT START PUMP.

FS5 – WHEN DOWN, ALARMS LOW LEVEL. DOES NOT STOP PUMP.



Delta Treatment Systems
9125 Comar Drive Walker, LA 70782

FLOAT SELECTION CHART
MODEL 8115/8230
FILTER CONTROL PANEL

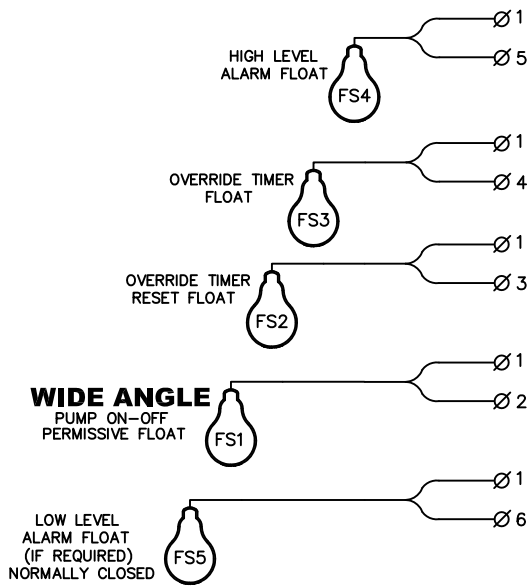
DWN BY:
E.ECKER/ECK

DATE:
02/07/18

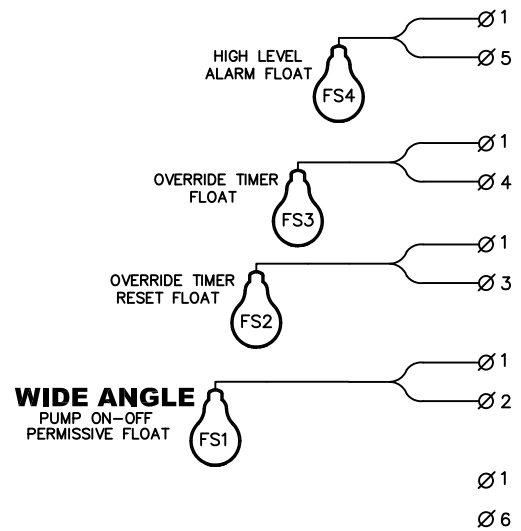
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DWG. NO. :
5/6

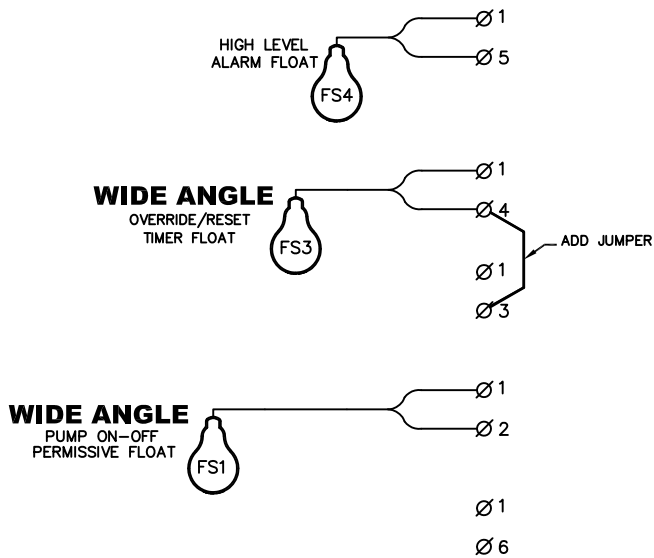
JOB NO. :
CP8115/D/3



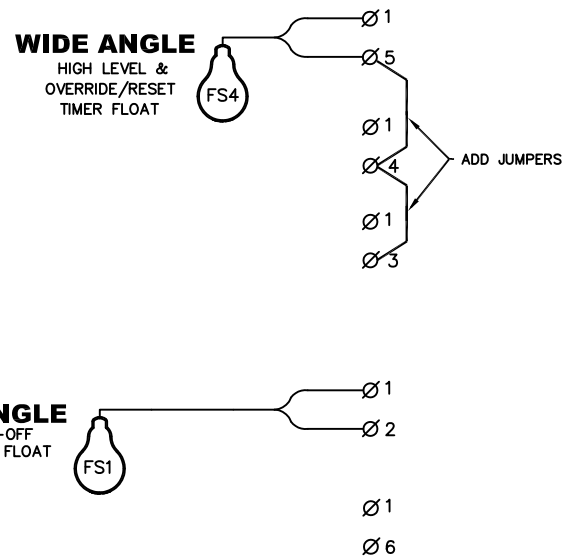
5 FLOAT SYSTEM



4 FLOAT SYSTEM



3 FLOAT SYSTEM



2 FLOAT SYSTEM



Delta Treatment Systems
9125 Comar Drive Walker, LA 70782

CONNECTION OF FLOATS
MODEL 8115/8230
FILTER CONTROL PANEL

DWN BY:
E.ECKER/ECK

DATE:
02/07/18

SCALE:
N.T.S.

DWG. NO. :
6/6

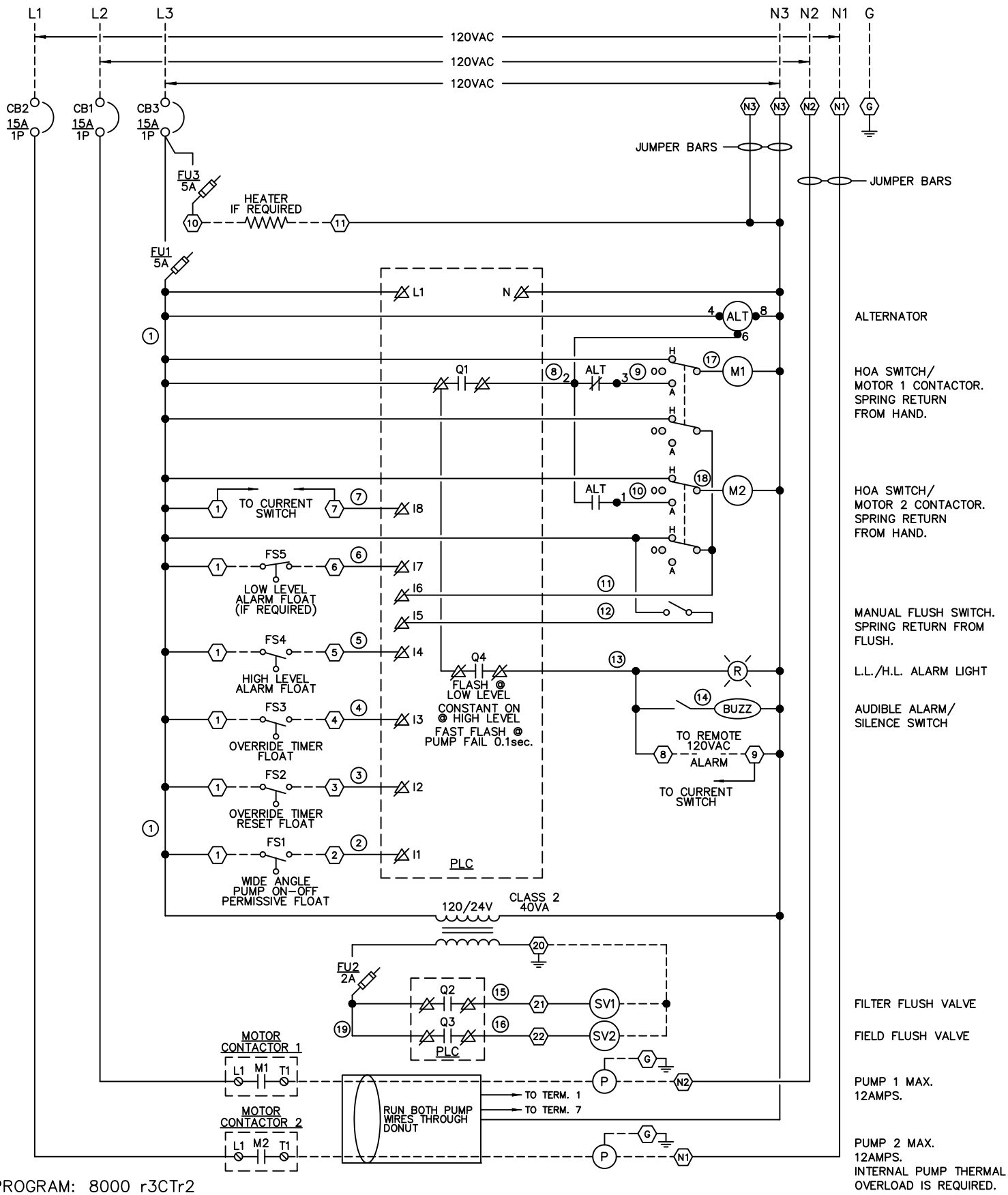
JOB NO. :
CP8115/D/3



CP8115/D/3/CT
MODEL CP8000 SERIES
FILTER PANEL



Delta Treatment Systems
9125 Comar Drive
Walker, LA 70785
(225) 665-6162 Fax (800) 219-9183



PROGRAM: 8000 r3CTr2



Delta Treatment Systems
9125 Comar Drive Walker, LA 70782

SCHEMATIC DIAGRAM THREE CIRCUIT, 120VAC, DUPLEX FILTER CONTROL PANEL

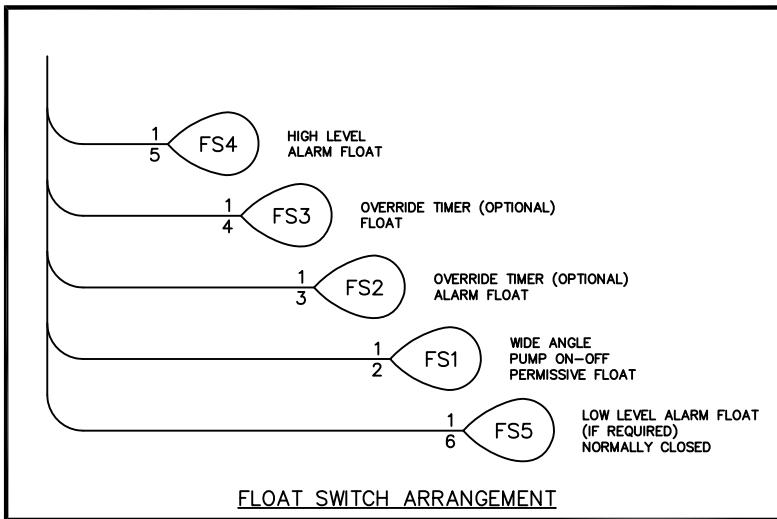
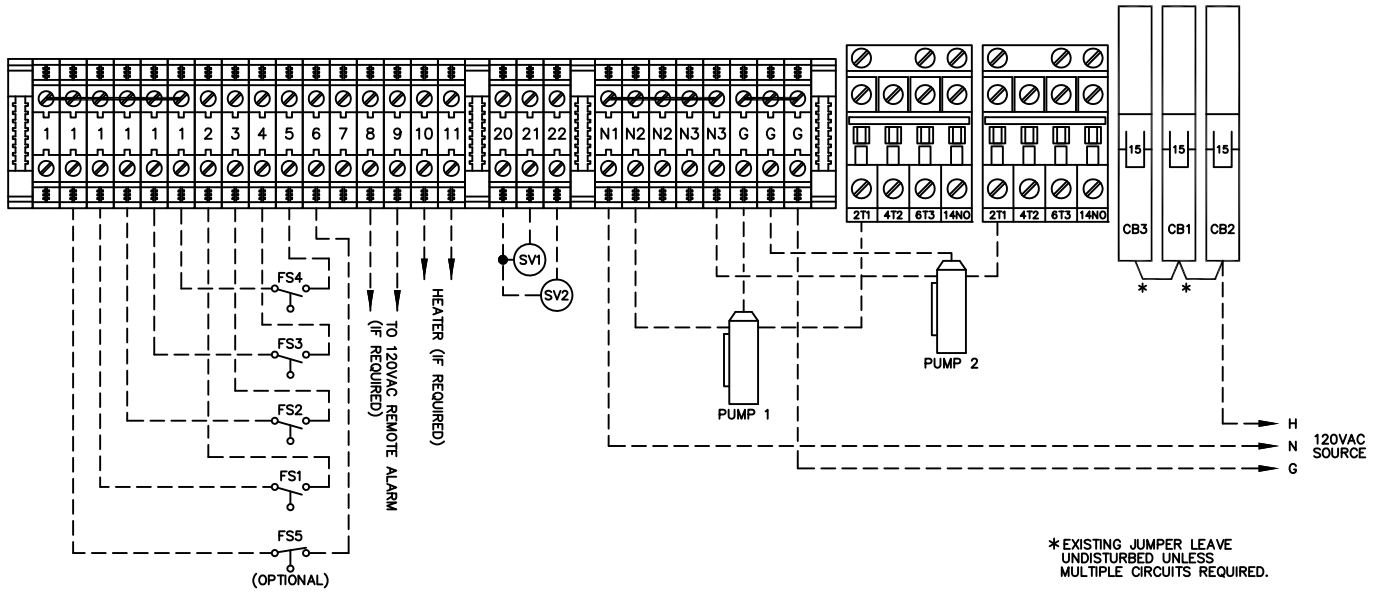
DWN BY:
E.ECKER/ECK

DATE:
02/07/18

SCALE:
N.T.S.

DWG. NO. :
1/6

JOB NO. :
CP8115/D/3/CT



Delta Treatment Systems
9125 Comar Drive Walker, LA 70782

EXTERNAL SYSTEM
MODEL 8115-1/2HP
FILTER CONTROL PANEL

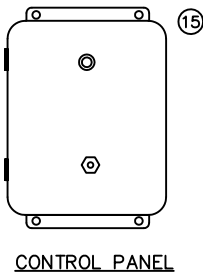
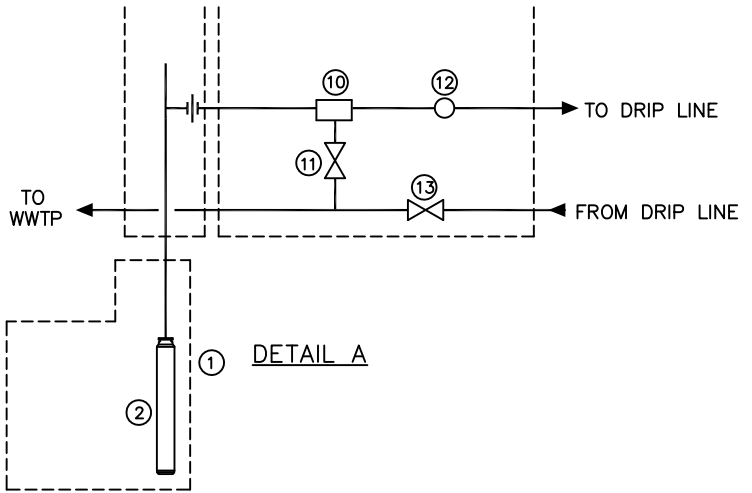
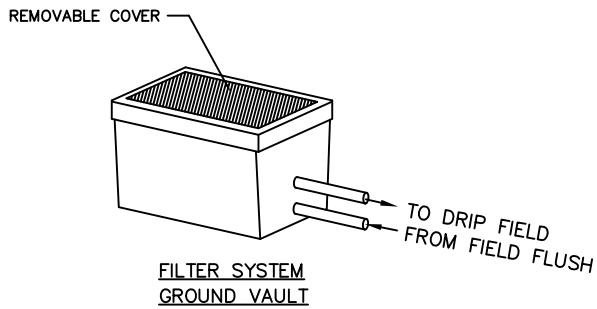
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E.ECKER/ECK

DATE:
02/07/18

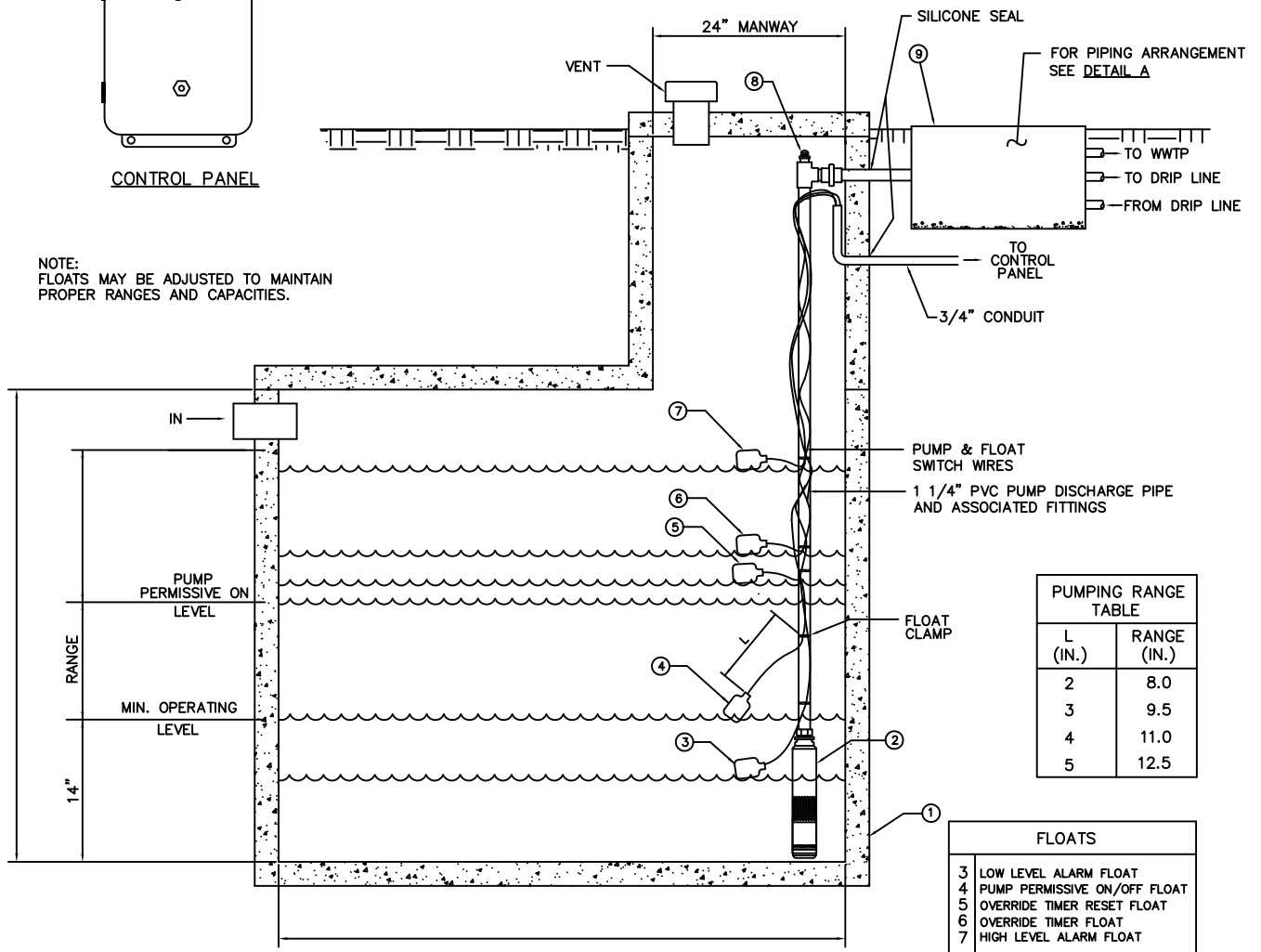
SCALE:
N.T.S.

DWG. NO. :
2/6

JOB NO. :
CP8115/D/3/CT



NOTE:
FLOATS MAY BE ADJUSTED TO MAINTAIN
PROPER RANGES AND CAPACITIES.



GENERAL ARRANGEMENT



Delta Treatment Systems
9125 Comar Drive Walker, LA 70782

MODEL 8115/8230
FILTER CONTROL PANEL

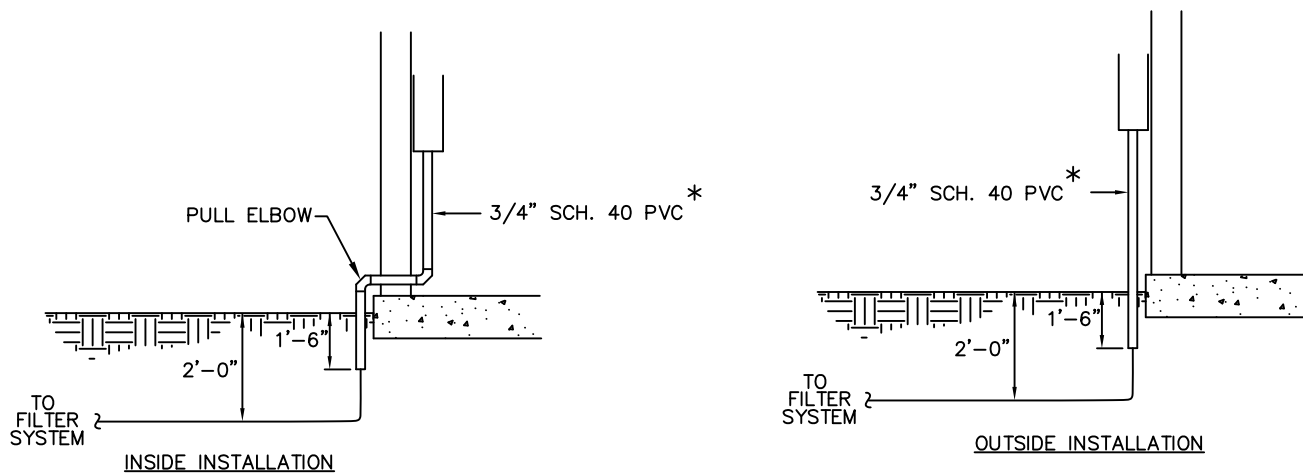
DWN BY:
E.ECKER/ECK

DATE:
02/07/18

SCALE:
N.T.S.

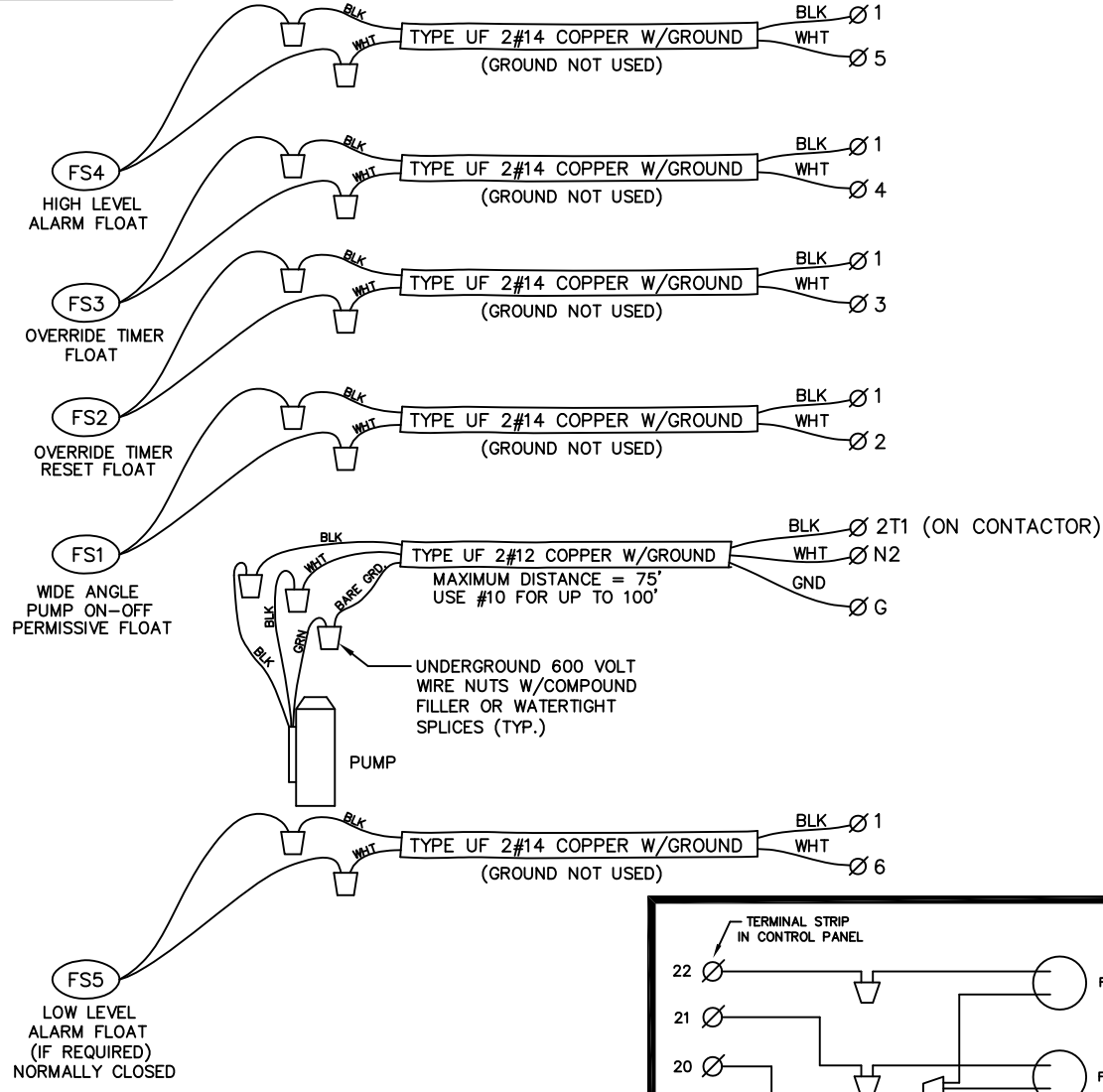
DWG. NO. :
3/6

JOB NO. :
CP8115/D/3/CT

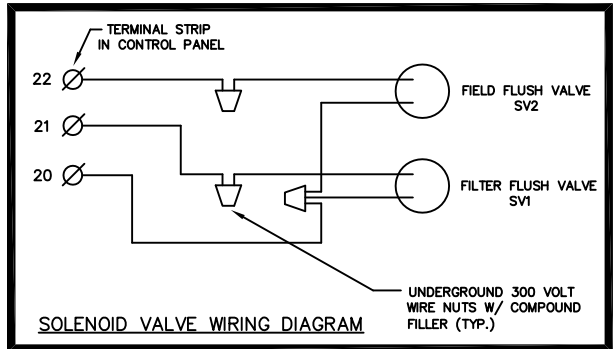


INSIDE INSTALLATION

OUTSIDE INSTALLATION



CONNECTIONS OF UNDERGROUND WIRE TO MOTOR AND FLOAT SWITCHES



Delta Treatment Systems
9125 Comar Drive Walker, LA 70782

ELECTRICAL INSTALLATION DRAWINGS
MODEL 8115/8230
FILTER CONTROL PANEL

DWN BY: E.ECKER/ECK	DATE: 02/07/18	SCALE: N.T.S.	DWG. NO. : 4/6	JOB NO. : CP8115/D/3/CT
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FLOAT SELECTION CHART

<u>NUMBER OF FLOATS</u>	<u>FLOAT</u>				
	FS1	FS2	FS3	FS4	FS5
5 FLOAT SYSTEM	WA	S	S	S	S(N.C.)
4 FLOAT SYSTEM	WA	S	S	S	—
3 FLOAT SYSTEM	WA	—	WA	S	—
2 FLOAT SYSTEM	WA	—	—	WA	—

WA = NORMALLY OPEN WIDE ANGLE
HIGH OR LOW CURRENT RATING

S = NORMALLY OPEN STANDARD NON-WIDE ANGLE
HIGH OR LOW CURRENT RATING

N.C. = NORMALLY CLOSED FLOAT

FS1 – WIDE ANGLE FLOAT THAT WILL ALLOW THE PUMP TO START WHEN UP,
AND WILL STOP THE PUMP WHEN DOWN. IT KEEPS THE PUMP FROM RUNNING DRY.

FS2 – WHEN DOWN, RESETS THE OVERRIDE FUNCTION.

FS3 – WHEN UP, STARTS A PUMP CYCLE AND OPERATES ON A SHORT PUMP CYCLE UNTIL
FS2 DROPS.

FS4 – WHEN UP, ALARMS HIGH LEVEL. DOES NOT START PUMP.

FS5 – WHEN DOWN, ALARMS LOW LEVEL. DOES NOT STOP PUMP.



Delta Treatment Systems
9125 Comar Drive Walker, LA 70782

FLOAT SELECTION CHART MODEL 8115/8230 FILTER CONTROL PANEL

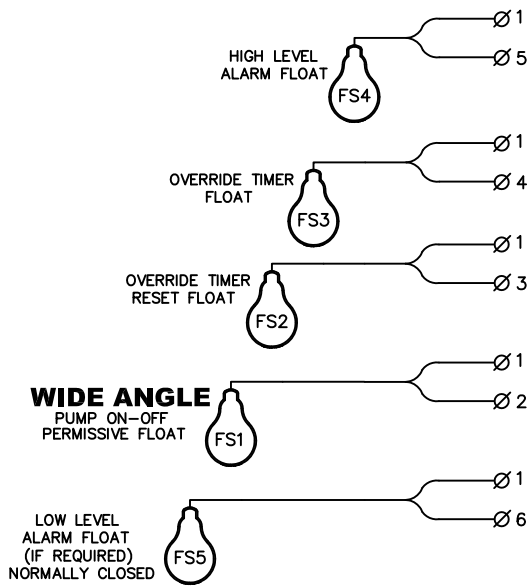
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E.ECKER/ECK

DATE:
02/07/18

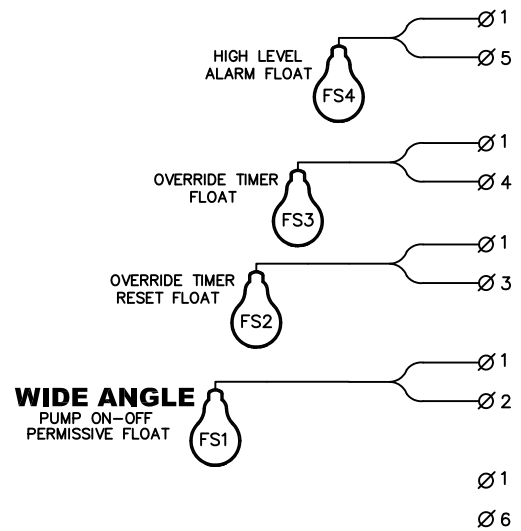
SCALE:
N.T.S.

DWG. NO. :
5/6

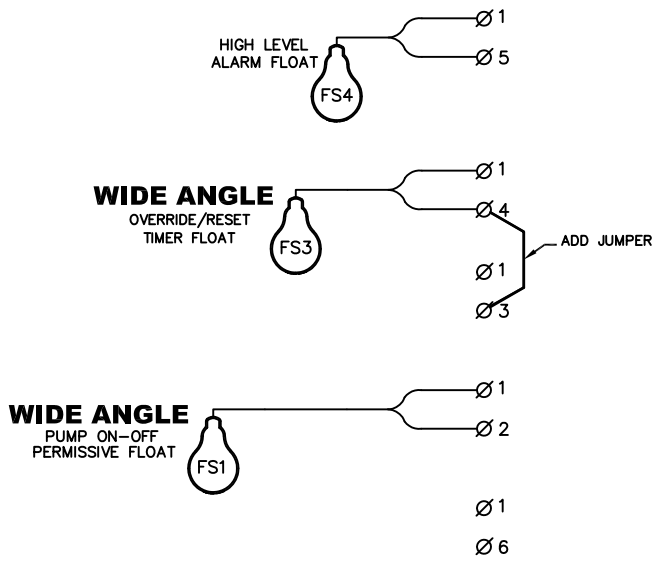
JOB NO. :
CP8115/D/3/CT



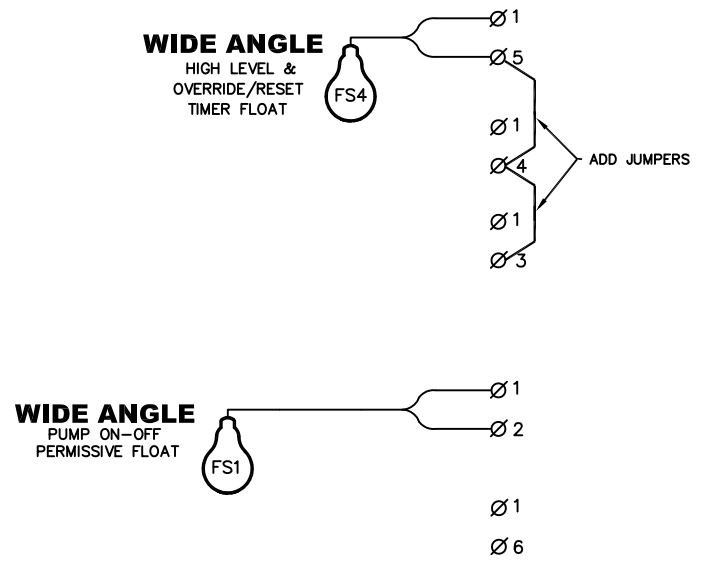
5 FLOAT SYSTEM



4 FLOAT SYSTEM



3 FLOAT SYSTEM



2 FLOAT SYSTEM



Delta Treatment Systems
9125 Comar Drive Walker, LA 70782

CONNECTION OF FLOATS
MODEL 8115/8230
FILTER CONTROL PANEL

DWN BY:
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SCALE:
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DWG. NO. :
6/6

JOB NO. :
CP8115/D/3/CT

8000 R3 Operation Description – OBA8:FS6

NORMAL OPERATION

- There is 2-minute (non-settable) power-up delay before the pump is allowed to run
 - During the 2-minute power-up delay, the filter valve and the field flush valve will open for 1 minute (non-settable)
- After the 2-minute power-up delay, if the “WIDE ANGLE PUMP ON-OFF PERMISSIVE” float is activated, the pump will turn on and off with a repeat cycle timer (run time and off time set by parameter B001)
- The filter valve will open for a 1-minute filter flush time (set by parameter B3) after the pump turns on
- The filter valve will open for a 2-minute filter drain time (set by parameter B4) after the pump shuts off
- The field flush valve will open for a 2-minute field drain time (set by parameter B6) after the pump shuts off

OVERRIDE

- When the water level rises and activates the “Override Timer” float, normal operation pump off time (set by parameter B1) is shortened to pump off time during override (set by parameter B2)
 - all set time parameters for the filter and field flush valve remain the same.
 - If the “Override Timer” float is activated while the pump is off, the pump will immediately turn on
 - Pump off time between doses returns to normal operation setting (B1) after the water recedes below the “Override Time Reset” float.

ALARMS

- If the water level rises above the “High Level Alarm” float, alarm light will illuminate and the buzzer will sound.
 - The light and buzzer turn off when the water recedes below the “High Level Alarm” float

ADDITIONAL NOTES

- At any time, if the “Manual Field Flush” switch is pressed, the field flush valve will open for 1 minute (set by parameter B9)
- After 84 pump starts (set by parameter B8), the field flush valve will open for a 2-minute field flush time (set by parameter B5) after the pump turns on

PLC PARAMETERS

<u>BLOCK</u>	<u>DESCRIPTION</u>	<u>FACTORY SETTING</u>	<u>PLC NOMENCLATURE</u>
B01	TH = Run time TL = Off time	12 Minutes 2 Hours	12:00m 02:00h
B02	Off time during override period	1 Hour	01:00h
B03	Filter flush time after pump turns on	1 Minute	01:00m
B04	Filter drain time after pump turns off	2 Minutes	02:00m
B05	Field flush time normal operation	2 Minutes	02:00m
B06	Field drain time after pump turns off	2 Minutes	02:00m
B07	Number of fields	4	4
B08	Number of cycles until 1st field flush	84	84
B09	Field flush time when field flush switch is pressed	1 Minute	01:00m

Note: Minute settings are in minutes and seconds. For example 02:00m is 2 minutes, 02:10m is 2 minutes and 10 seconds. Hour settings are in hours and minutes. For example 02:00h is 2 hours and no minutes, 02:10h is 2 hours and 10 minutes, and 00:12h is 12 minutes.

In addition to the settings above, various other parameters can be viewed as follows:

- Pump run time hours
- Pump start counts
- Level override counts
- High level counts
- Switch to hand counts

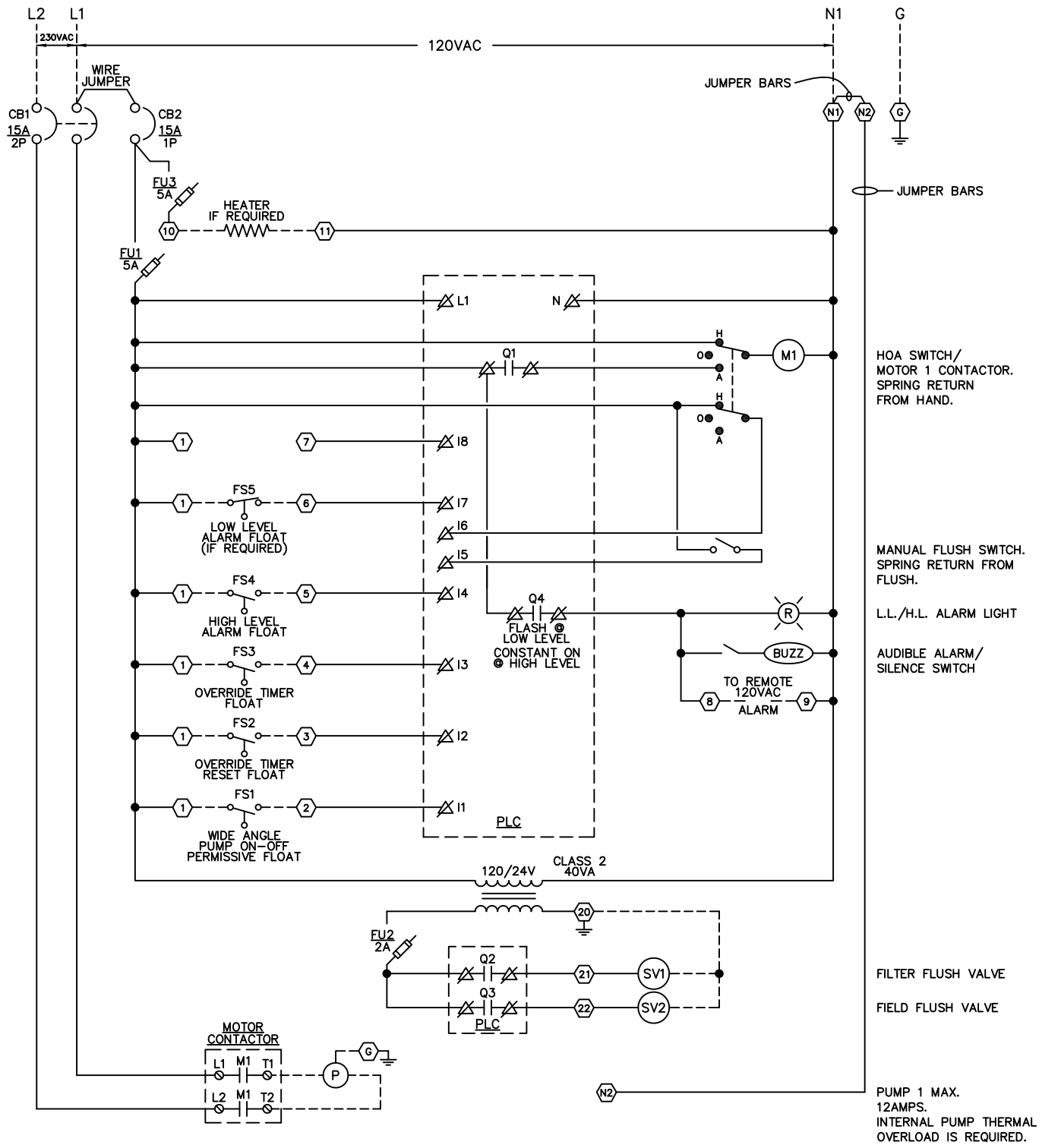
Cox Research and Technology, Inc.
14697 S. Harrells Ferry Road
Baton Rouge, LA. 70816
(225) 756-3271 Fax (225) 755-1030



CP8230/S/1
MODEL CP8000 SERIES
FILTER PANEL



Delta Treatment Systems
9125 Comar Drive
Walker, LA 70785
(225) 665-6162 Fax (800) 219-9183



PROGRAM: 8000 R3



Delta Treatment Systems
9125 Comar Drive Walker, LA 70782

SCHEMATIC DIAGRAM SINGLE CIRCUIT, 230VAC, SIMPLEX FILTER CONTROL PANEL

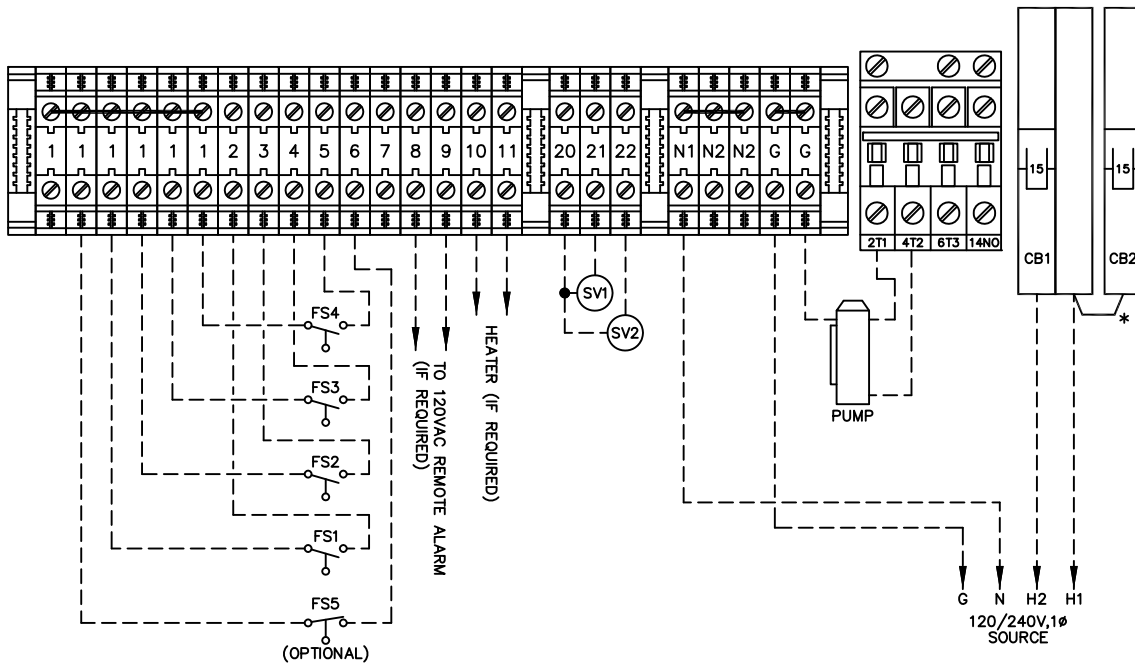
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02/07/18

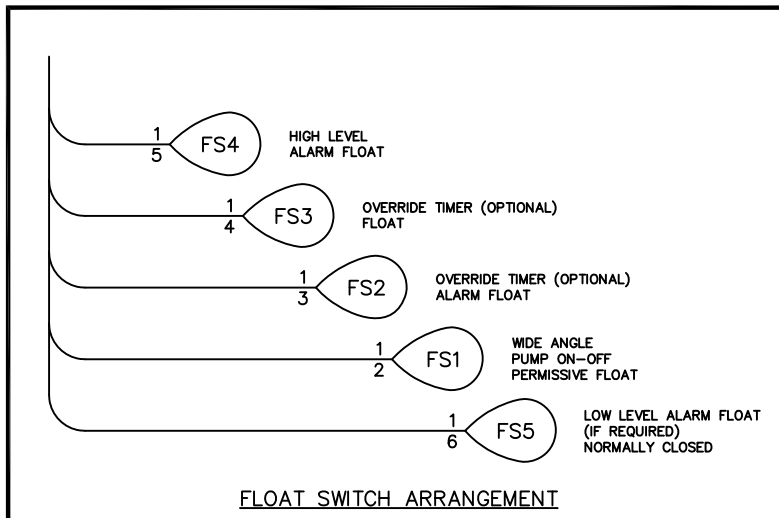
SCALE:
N.T.S.

DWG. NO. :
1/6

JOB NO. :
CP8230/S/1



* EXISTING JUMPER LEAVE
UNDISTURBED UNLESS
MULTIPLE CIRCUITS REQUIRED.



Delta Treatment Systems
9125 Comar Drive Walker, LA 70782

EXTERNAL SYSTEM
MODEL 8230-1HP
FILTER CONTROL PANEL

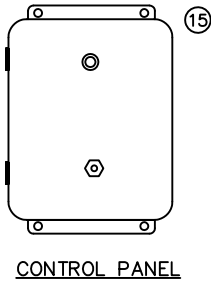
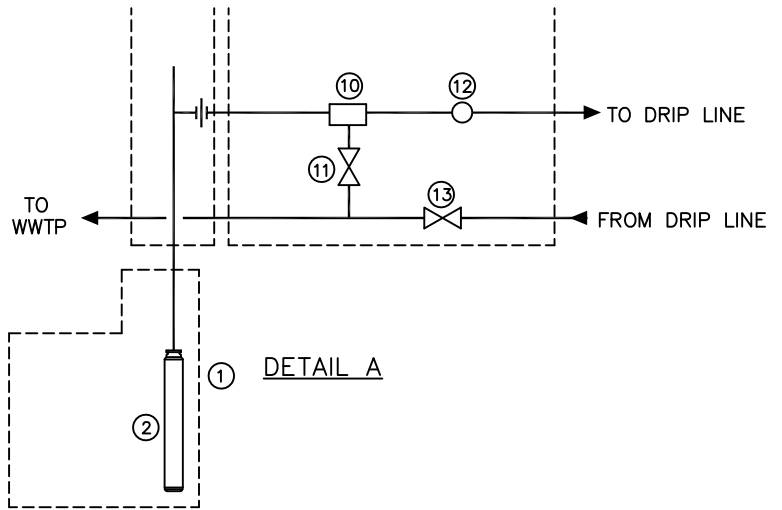
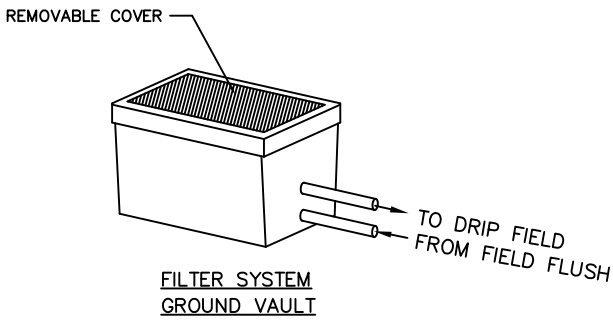
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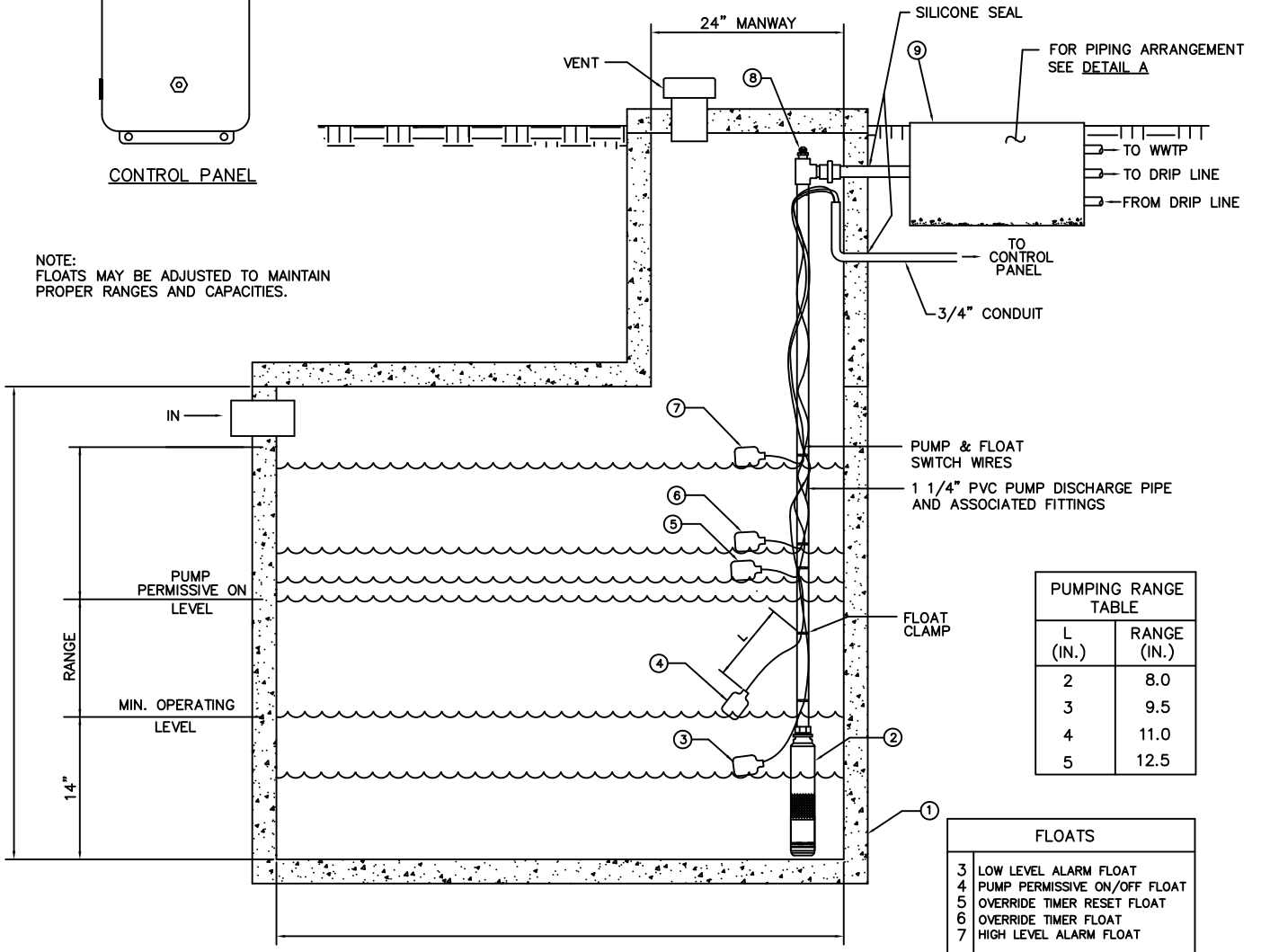
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N.T.S.

DWG. NO. :
2/6

JOB NO. :
CP8230/S/1



NOTE:
FLOATS MAY BE ADJUSTED TO MAINTAIN
PROPER RANGES AND CAPACITIES.



L (IN.)	RANGE (IN.)
2	8.0
3	9.5
4	11.0
5	12.5

3	LOW LEVEL ALARM FLOAT
4	PUMP PERMISSIVE ON/OFF FLOAT
5	OVERRIDE TIMER RESET FLOAT
6	OVERRIDE TIMER FLOAT
7	HIGH LEVEL ALARM FLOAT



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9125 Comar Drive Walker, LA 70782

MODEL 8115/8230
FILTER CONTROL PANEL

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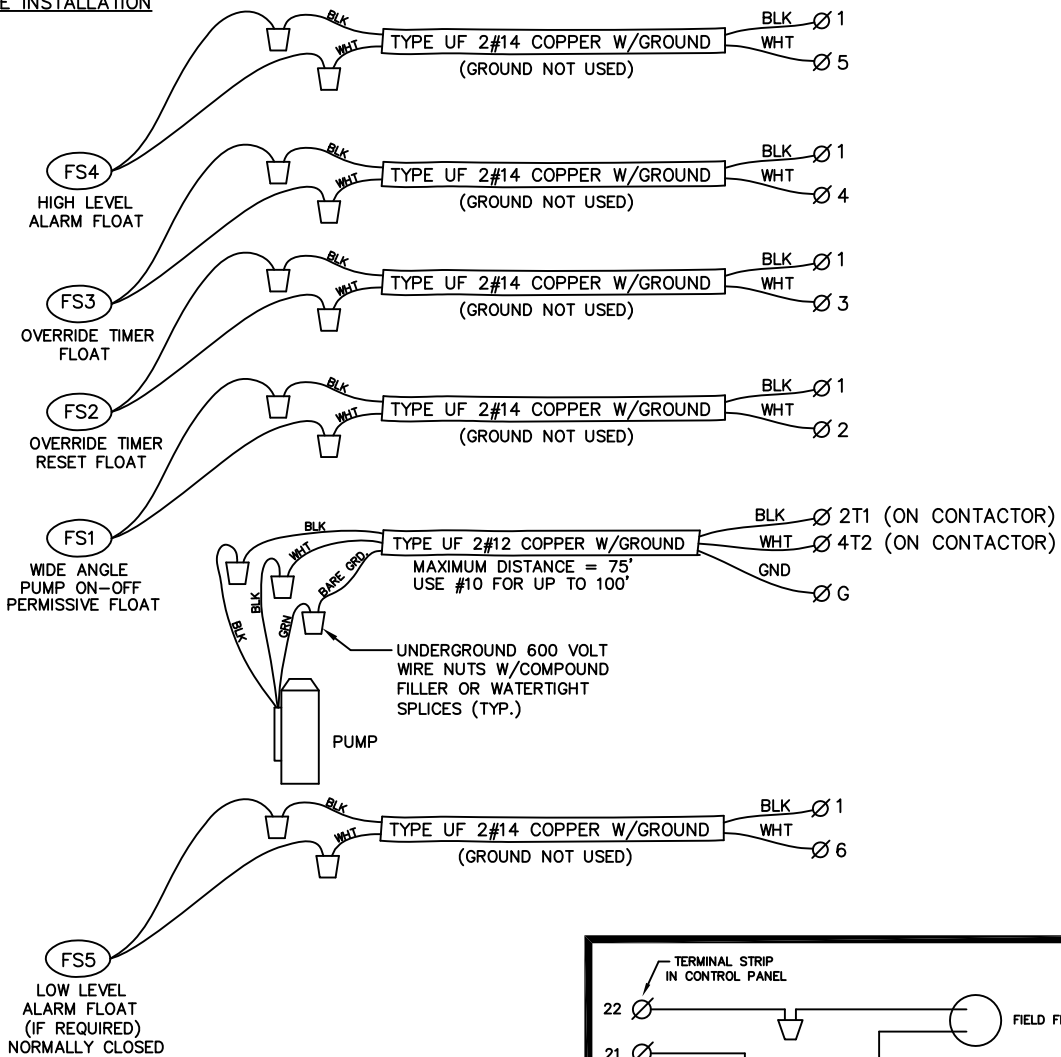
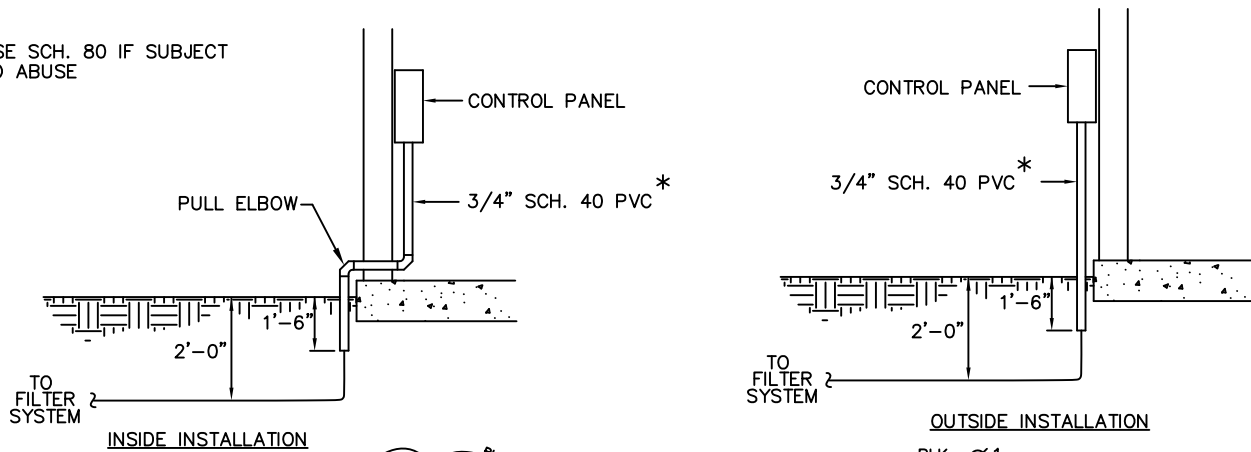
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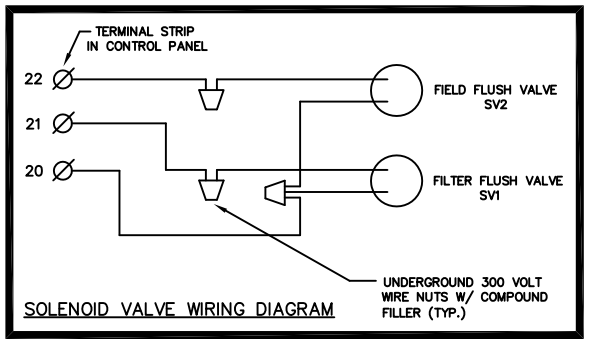
DWG. NO. :
3/6

JOB NO. :
CP8230/S/1

* USE SCH. 80 IF SUBJECT TO ABUSE



CONNECTIONS OF UNDERGROUND WIRE TO MOTOR AND FLOAT SWITCHES



Delta Treatment Systems
9125 Comar Drive Walker, LA 70782

ELECTRICAL INSTALLATION DRAWINGS
MODEL 8230-1HP
FILTER CONTROL PANEL

DWN BY: E.ECKER/ECK	DATE: 02/07/18	SCALE: N.T.S.	DWG. NO. : 4/6	JOB NO. : CP8230/S/1
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FLOAT SELECTION CHART

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3 FLOAT SYSTEM	WA	—	WA	S	—
2 FLOAT SYSTEM	WA	—	—	WA	—

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HIGH OR LOW CURRENT RATING

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AND WILL STOP THE PUMP WHEN DOWN. IT KEEPS THE PUMP FROM RUNNING DRY.

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FS3 – WHEN UP, STARTS A PUMP CYCLE AND OPERATES ON A SHORT PUMP CYCLE UNTIL
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FS4 – WHEN UP, ALARMS HIGH LEVEL. DOES NOT START PUMP.

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Delta Treatment Systems
9125 Comar Drive Walker, LA 70782

FLOAT SELECTION CHART
MODEL 8115/8230
FILTER CONTROL PANEL

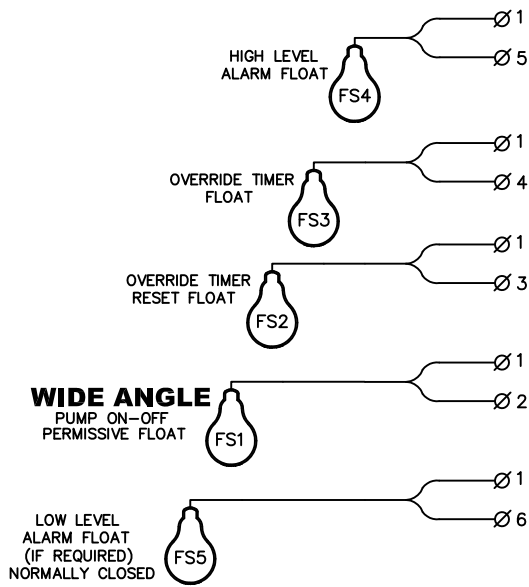
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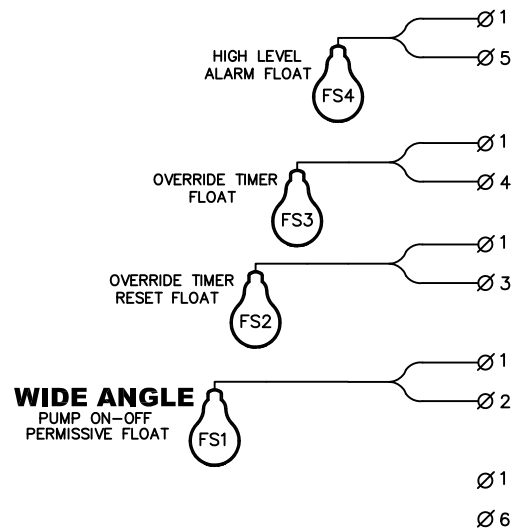
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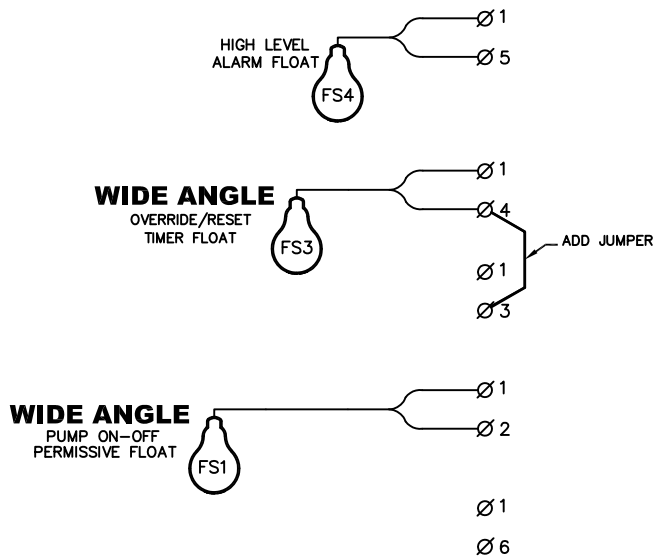
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CP8230/S/1



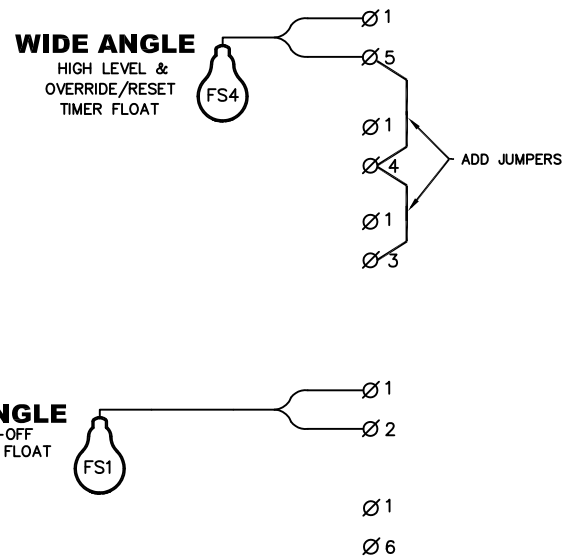
5 FLOAT SYSTEM



4 FLOAT SYSTEM



3 FLOAT SYSTEM



2 FLOAT SYSTEM



Delta Treatment Systems
9125 Comar Drive Walker, LA 70782

CONNECTION OF FLOATS
MODEL 8115/8230
FILTER CONTROL PANEL

DWN BY:
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DATE:
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SCALE:
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DWG. NO. :
6/6

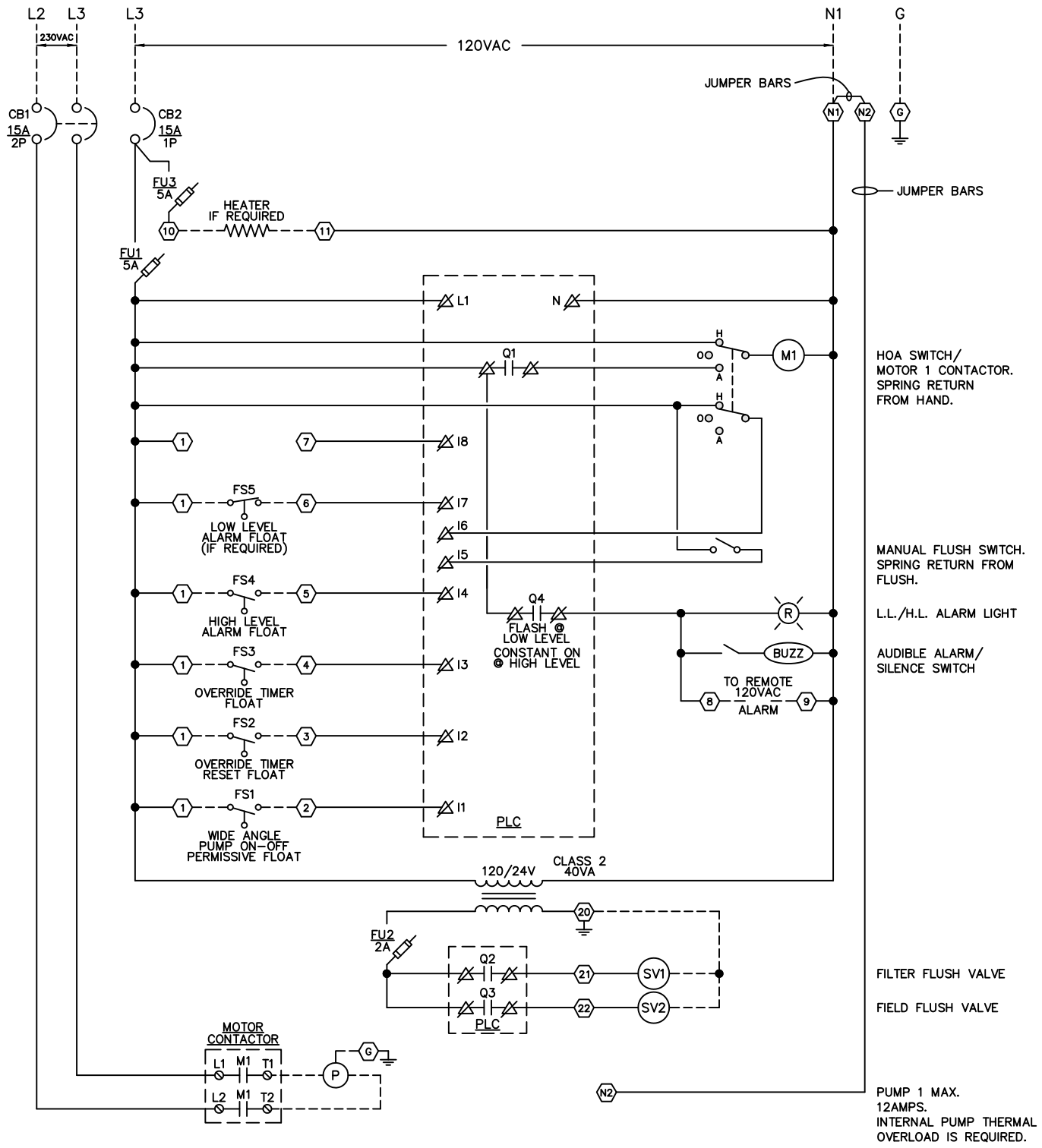
JOB NO. :
CP8230/S/1



CP8230/S/2
MODEL CP8000 SERIES
FILTER PANEL



Delta Treatment Systems
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Walker, LA 70785
(225) 665-6162 Fax (800) 219-9183



PROGRAM: 8000 R3



Delta Treatment Systems
9125 Comar Drive Walker, LA 70782

SCHEMATIC DIAGRAM DUAL CIRCUIT, 230VAC, SIMPLEX FILTER CONTROL PANEL

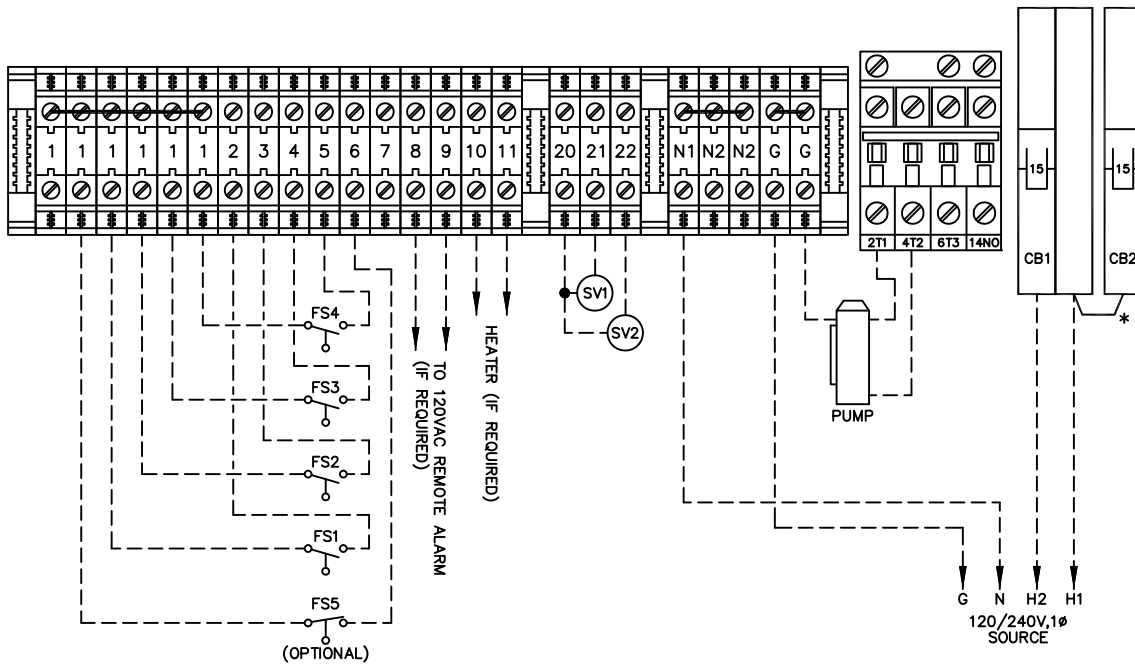
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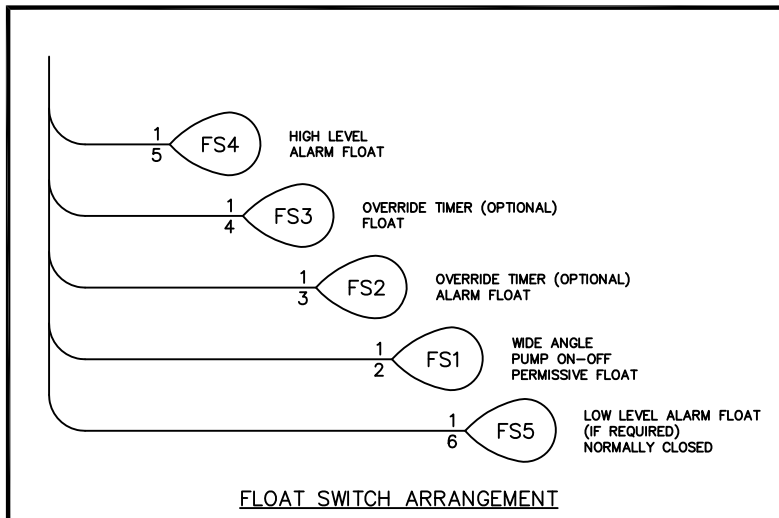
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DWG. NO. :
1/6

JOB NO. :
CP8230/S/2



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EXTERNAL SYSTEM
MODEL 8230-1HP
FILTER CONTROL PANEL

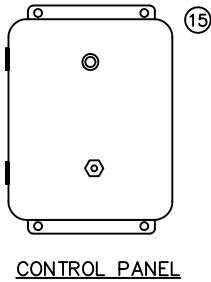
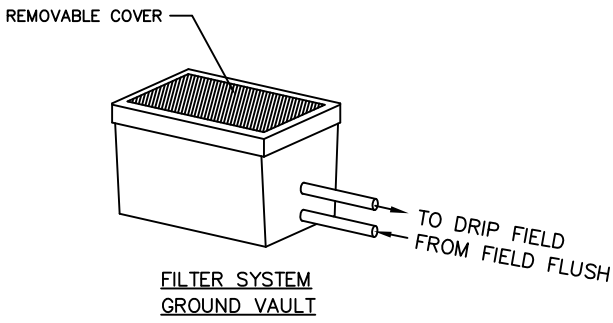
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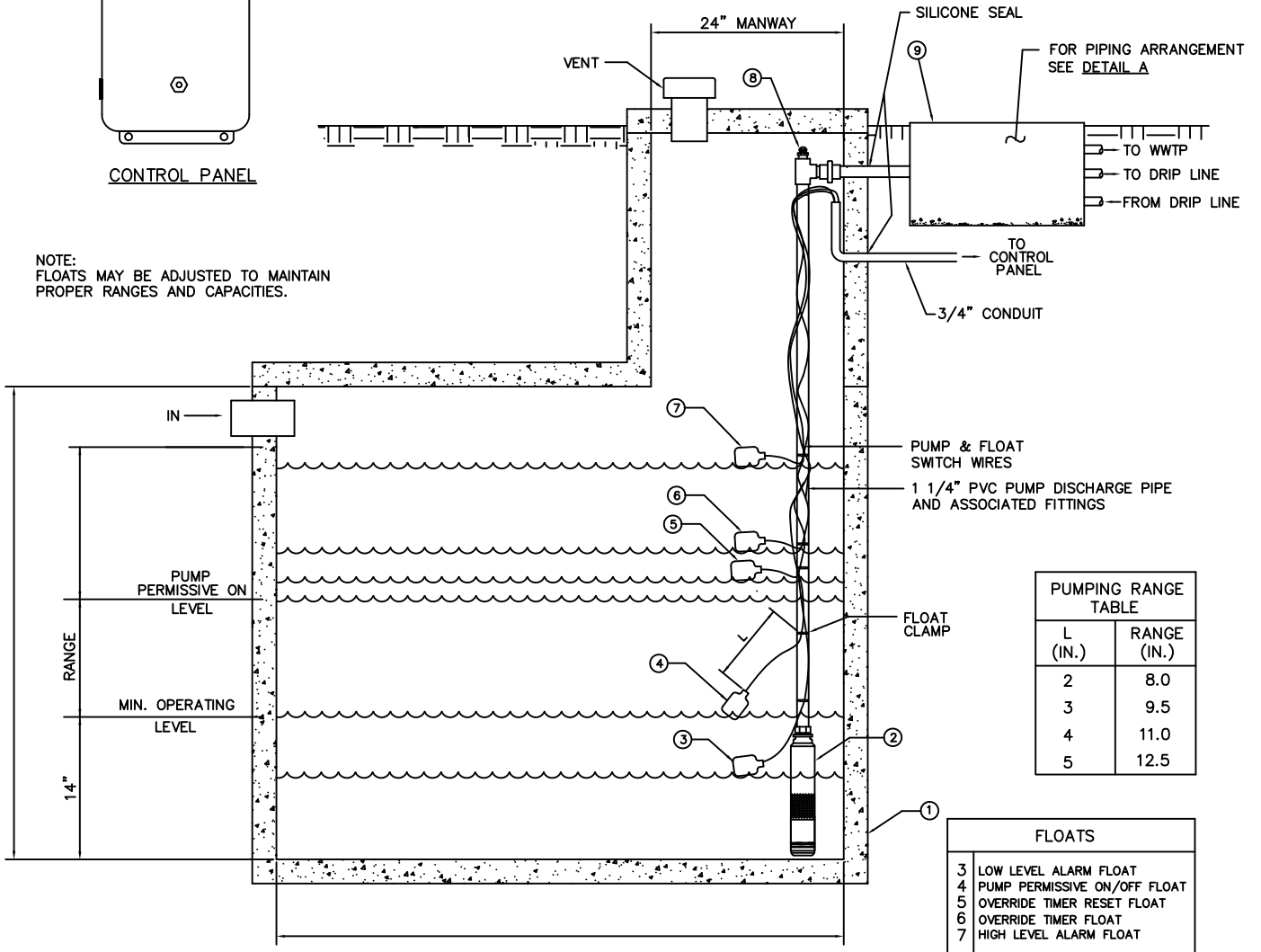
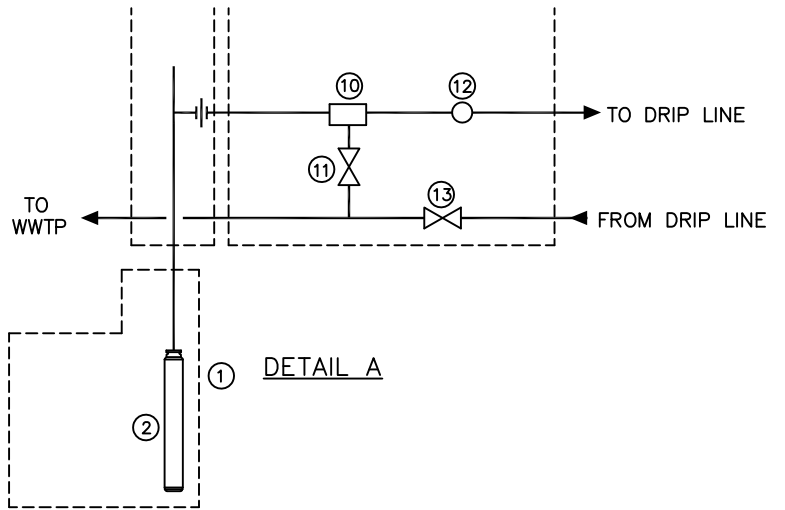
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2/6

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CP8230/S/2



NOTE:
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MODEL 8115/8230
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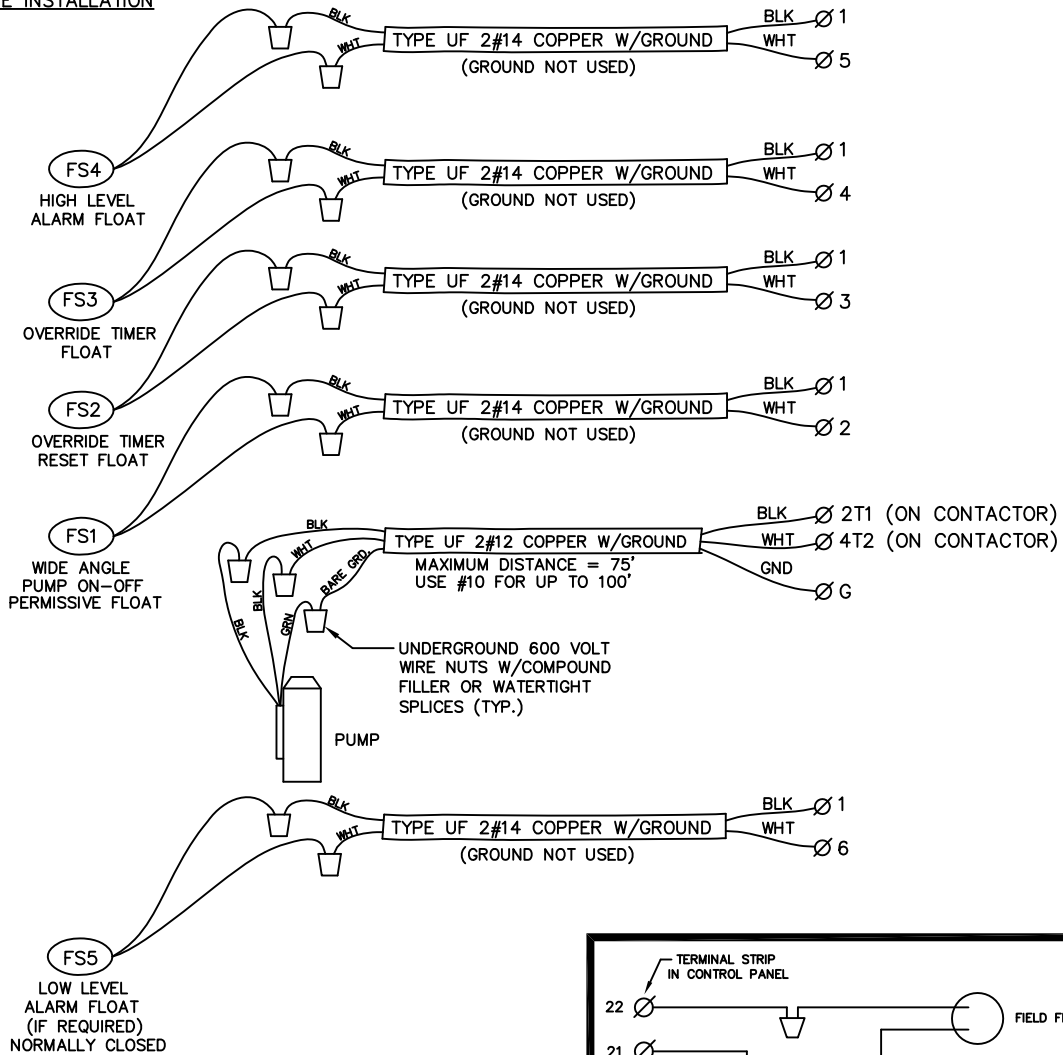
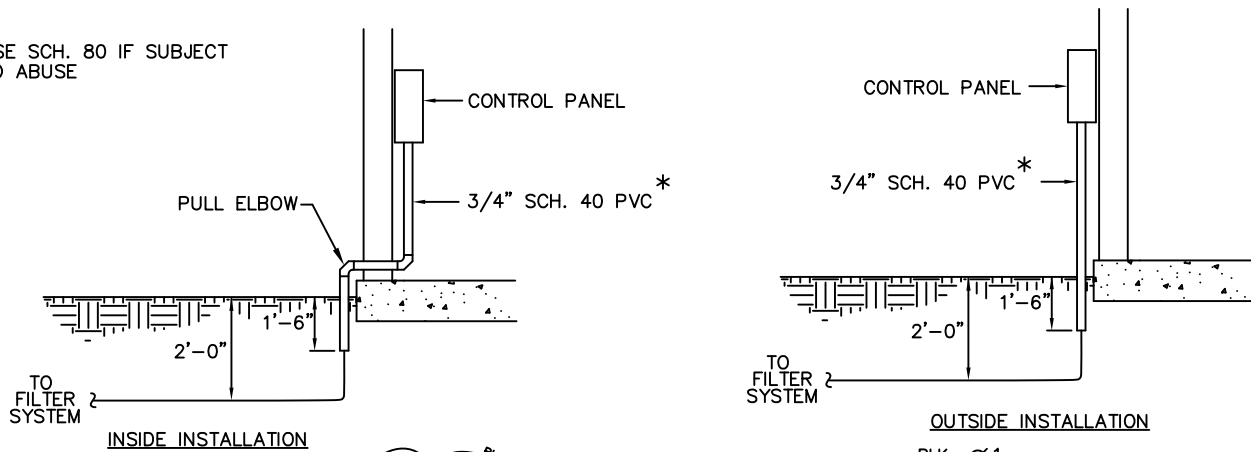
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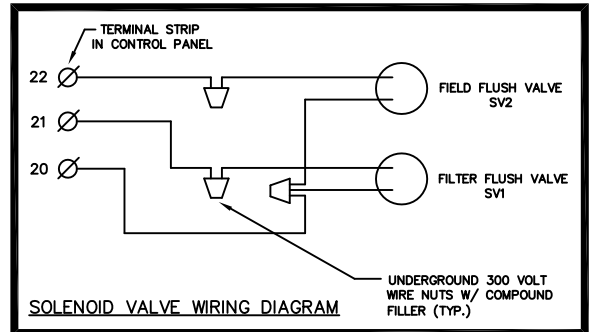
DWG. NO. :
3/6

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* USE SCH. 80 IF SUBJECT TO ABUSE



CONNECTIONS OF UNDERGROUND WIRE TO MOTOR AND FLOAT SWITCHES



Delta Treatment Systems
9125 Comar Drive Walker, LA 70782

ELECTRICAL INSTALLATION DRAWINGS
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DWG. NO. :
4/6

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CP8230/S/2

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2 FLOAT SYSTEM	WA	—	—	WA	—

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FS4 – WHEN UP, ALARMS HIGH LEVEL. DOES NOT START PUMP.

FS5 – WHEN DOWN, ALARMS LOW LEVEL. DOES NOT STOP PUMP.



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FLOAT SELECTION CHART
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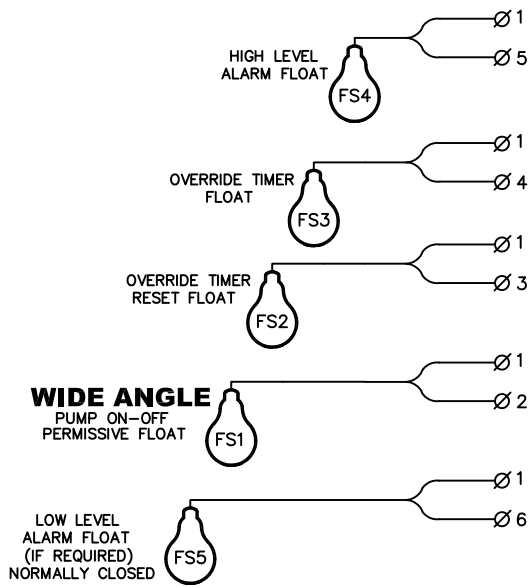
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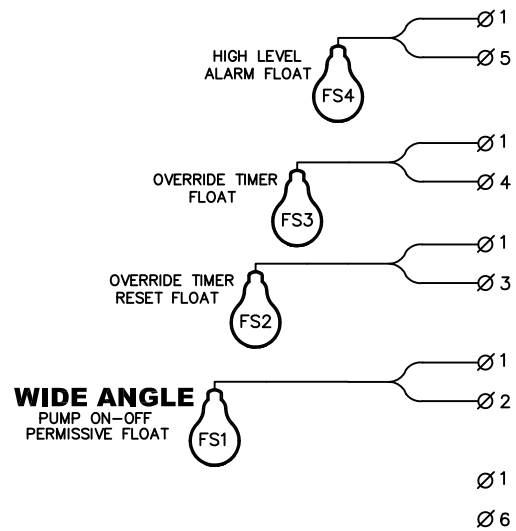
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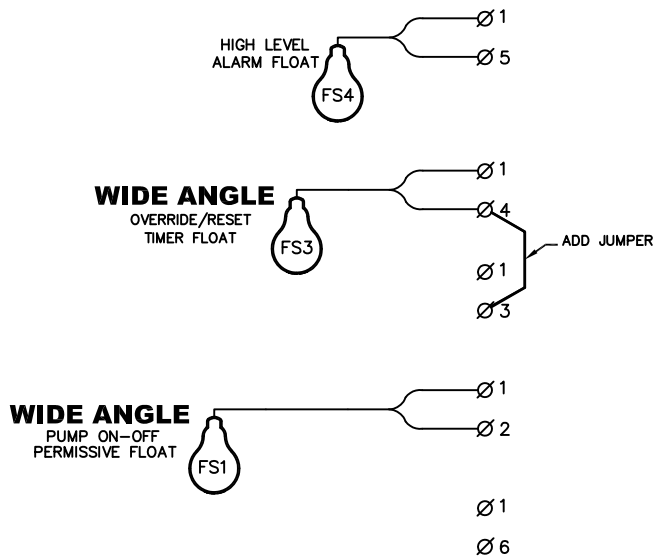
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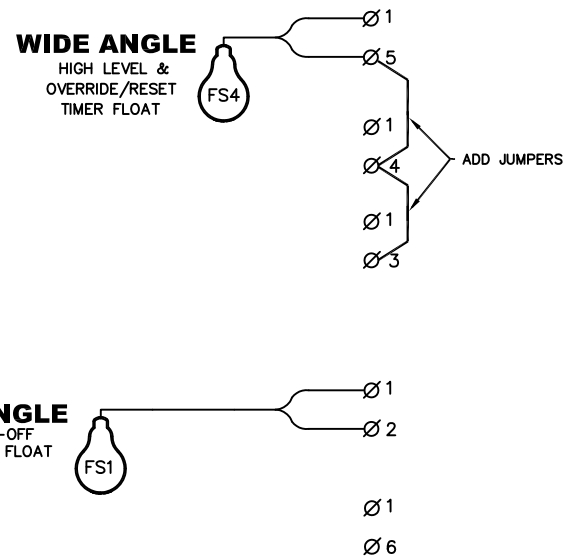
5 FLOAT SYSTEM



4 FLOAT SYSTEM



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CONNECTION OF FLOATS
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