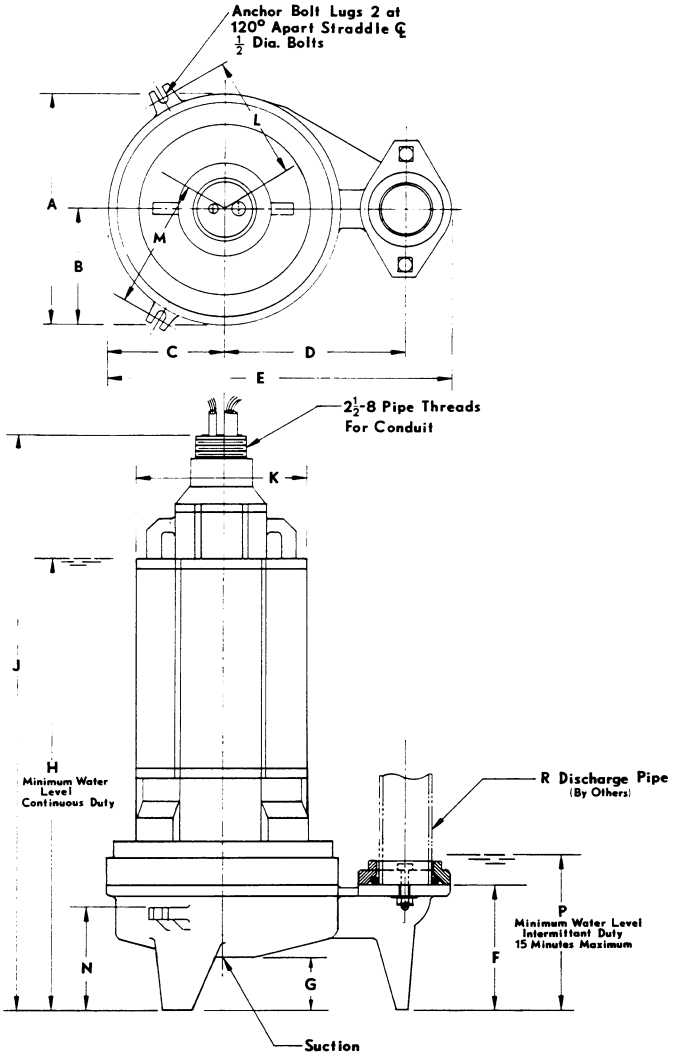
SUBMERSIBLE SEWAGE PUMPS
Type UW
3 Phase Unit Outline Dimensions



☐ Standard 30 Feet of 4 Conductor Motor Lead and Control Cables

☐ Optional _____ Feet of 4 Conductor Motor Lead and Control Cables

Motor Frame Selection		
Hp.	1750 RPM	1150 RPM
¾	—	140TY
1	140TY	140TY
1½	140TY	140TY
2	140TY	140TY
3	140TY	180TY
5	180TY	180TY
7½	180TY	210TY
10	210TY	210TY
15	210TY	—
20	210TY	—

✓	Pump Type & Size	Specific Dimensions R
	UWNSB3	3
	UWNSBC4	4
	UWLMB3	3
	UWLMBC4	4
	UWLLB3	3
	UWLLBC4	4
	UWLMB4A	4

Pump Type & Size	✓	Motor Frame	UNIT DIMENSIONS A	B	C	D	E	F	G	H	J	K	L	M	N	P	Wt. Lbs.
UWNSB3		140TY	12⅛	5¾	5¼	10¾	19	6¾	2½	23¾	31½	8	6⅝	5¾	5½	10	240
UWNSBC4		180TY	12⅛	5¾	5¼	10¾	19	6¾	2½	25½	32⅝	9⅝	6⅝	5¾	5½	10	287
UWLMB3		140TY	13¾	6⅝	6⅛	10¾	20	8	2½	25½	33¾	8	7⅛	6⅝	6½	11	258
UWLMBC4		180TY	13¾	6⅝	6⅛	10¾	20	8	2½	26¾	33⅞	9⅝	7⅛	6⅝	6½	11	305
UWLLB3		140TY	16	7¾	7⅝	12	22¾	8½	3½	25⅞	32⅞	8	8¾	8	6⅝	12	302
UWLLBC4		180TY	16	7¾	7⅝	12	22¾	8½	3½	27	34⅛	9⅝	8¾	8	6⅝	12	349
		210TY	16	7¾	7⅝	12	22¾	8½	3½	34	39¼	11½	8¾	8	6⅝	12	453
UWLMB4A		140TY	16½	7¾	8	12	23	10 1/16	3½	26¾	34½	8	8¾	8	7 3/16	13	318
		180TY	16½	7¾	8	12	23	10 1/16	3½	28½	35⅝	9⅝	8¾	8	7 3/16	13	365
		210TY	16½	7¾	8	12	23	10 1/16	3½	35⅝	40¾	11½	8¾	8	7 3/16	13	469

CUSTOMER _____ JOB NAME _____

P.O. NO. _____ ITEM NO. _____

S.O. NO. _____ SERIAL NO. _____

MOTOR MFR. Reliance TYPE Submersible Class 1 Group D HP _____ FRAME _____ VOLTS _____ PH. 3 HZ. 60

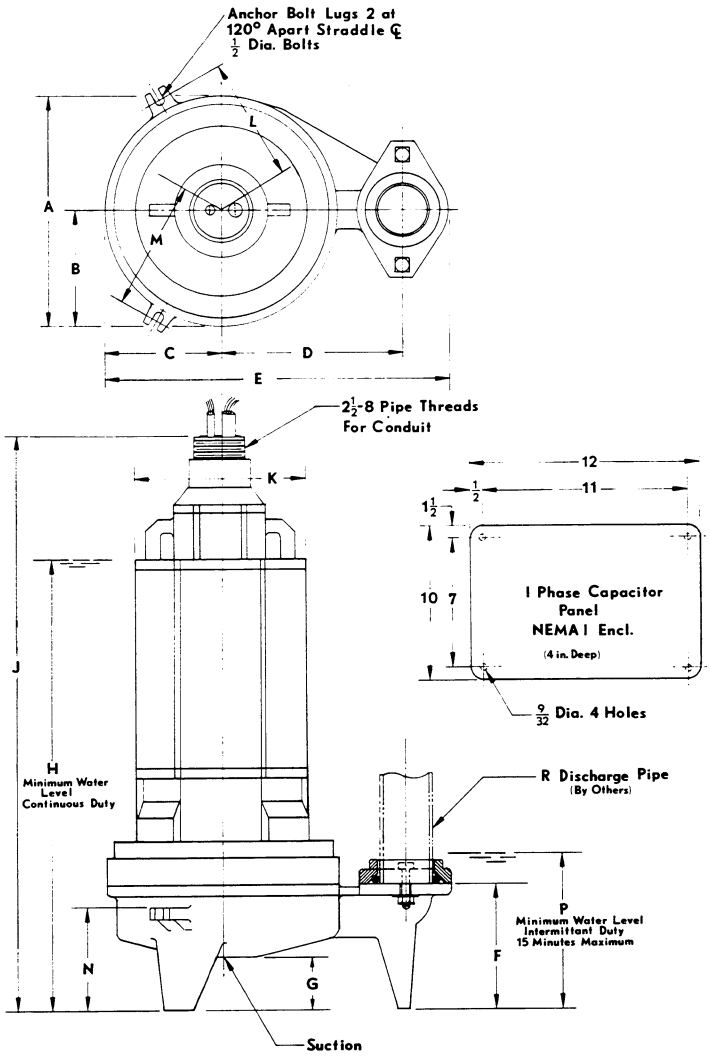
PUMP TYPE & SIZE _____ RPM _____ G.P.M. _____ TOTAL HD. FT. _____

CERTIFIED FOR ☐ APPROVAL ☐ CONSTRUCTION BY _____ DATE _____

SUBJECT TO CHANGE
UNLESS CERTIFIED
FOR CONSTRUCTION

SUBMERSIBLE SEWAGE PUMPS
Type UW
1 Phase Unit Outline Dimensions

Peerless Pump Company
Indianapolis, IN 46207-7025



☐ Standard 30 Feet of 4 Conductor Motor Lead and Control Cables

☐ Optional _____ Feet of 4 Conductor Motor Lead and Control Cables

Motor Frame Body Selection		
Hp.	1750 RPM	1150 RPM
¾	–	140TY (140TY)
1	140TY (140TY)	180TY (140TY)
1½	140TY (140TY)	180TY (140TY)
2	180TY (140TY)	210TY (180TY)
3	180TY (140TY)	210TY (180TY)
5	210TY (210TY)	– –

(xxxTY) Motor Frame Mounting Flange

✓	Pump Type & Size	Specific Dimension R
	UWNSB3	3
	UWNSBC4	4
	UWLMB3	3
	UWLMBC4	4
	UWLLB3	3
	UWLLBC4	4
	UWLLB4A	4

Pump Type & Size	✓	Motor Frame Body	Motor Frame Mtg. Flg.	UNIT DIMENSIONS A	B	C	D	E	F	G	H	J	K	L	M	N	P	Wt. Lbs.
UWNSB3 UWNSBC4		140TY	140TY	12⅛	5¾	5¼	10¾	19	6¾	2½	23¾	31½	8	6⅝	5¾	5½	10	240
		180TY	140TY	12⅛	5¾	5¼	10¾	19	6¾	2½	25½	32⅝	9⅝	6⅝	5¾	5½	10	285
		210TY	180TY	12⅛	5¾	5¼	10¾	19	6¾	2½	29¼	37½	11½	6⅝	5¾	5½	10	391
UWLMB3 UWLMBC4		140TY	140TY	13¾	6⅝	6⅛	10¾	20	8	2½	25½	33¾	8	7⅛	6⅝	6½	11	258
		180TY	140TY	13¾	6⅝	6⅛	10¾	20	8	2½	26¾	33⅞	9⅝	7⅛	6⅝	6½	11	305
		210TY	180TY	13¾	6⅝	6⅛	10¾	20	8	2½	30½	38¾	11½	7⅛	6⅝	6½	11	409
UWLLB3 UWLLBC4		140TY	140TY	16	7¾	7⅝	12	22¾	8½	3½	25⅞	32⅞	8	8¾	8	6 5/16	12	302
		180TY	140TY	16	7¾	7⅝	12	22¾	8½	3½	27	34⅛	9⅝	8¾	8	6 5/16	12	349
		210TY	180TY	16	7¾	7⅝	12	22¾	8½	3½	34	39¼	11½	8¾	8	6 5/16	12	453
		210TY	210TY	16	7¾	7⅝	12	22¾	8½	3½	34	39¼	11½	8¾	8	6 5/16	12	453
UWLMB4A		140TY	140TY	16½	7¾	8	12	23	10 1/16	3½	26¾	34½	8	8¾	8	7 3/16	13	318
		180TY	140TY	16½	7¾	8	12	23	10 1/16	3½	28½	35⅝	9⅝	8¾	8	7 3/16	13	365
		210TY	180TY	16½	7¾	8	12	23	10 1/16	3½	35⅝	40¾	11½	8¾	8	7 3/16	13	469
		210TY	210TY	16½	7¾	8	12	23	10 1/16	3½	35⅝	40¾	11½	8¾	8	7 3/16	13	469

CUSTOMER _____ JOB NAME _____

P.O. NO. _____ ITEM NO. _____

S.O. NO. _____ SERIAL NO. _____

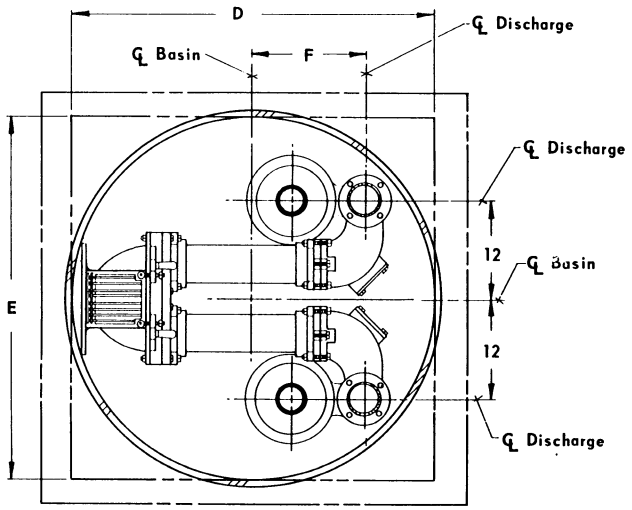
MOTOR MFR. Reliance TYPE Submersible Class 1 Group D HP ____ FRAME BODY _____ VOLTS ____ PH. 1 HZ. 60

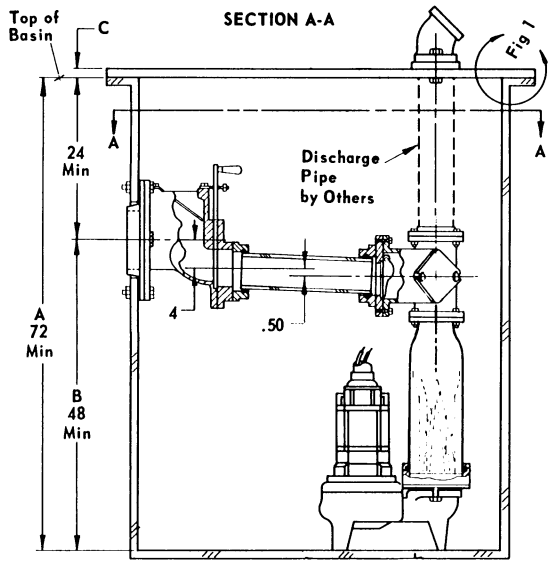
PUMP TYPE & SIZE _____ RPM _____ G.P.M. _____ TOTAL HD. FT. _____

CERTIFIED FOR ☐ APPROVAL ☐ CONSTRUCTION BY _____ DATE _____

SUBJECT TO CHANGE UNLESS CERTIFIED FOR CONSTRUCTION

SUBMERSIBLE SEWAGE PUMPS
TYPE UW
FLUSH KLEEN® FITTINGS
Size 6 x 4 Type F Series P
Above Grade Discharge





SUBJECT TO CHANGE UNLESS CERTIFIED FOR CONSTRUCTION

ALL DIMENSIONS ARE IN INCHES

BASIN SIZE (INSIDE DIMENSION)			
TYPE	D	E	F
ROUND	48	48	13.25
	60	60	10.12
	72	72	18.00
SQUARE	48	48	13.25
	60	60	10.25
	72	72	10.25

Figure 2

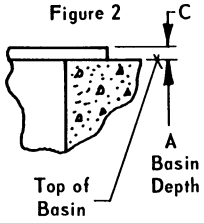
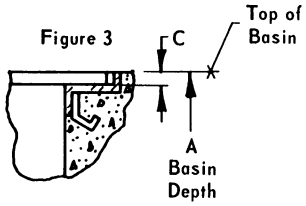
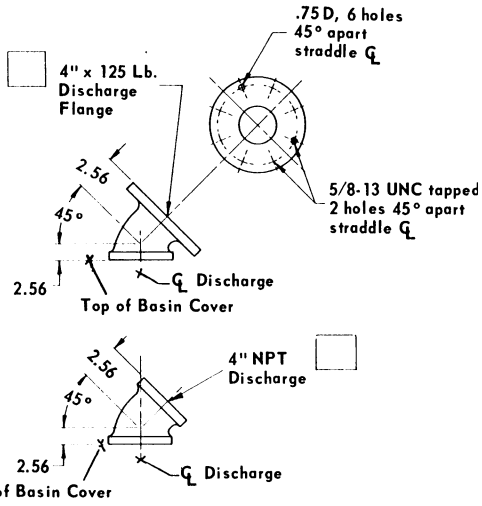


Figure 3



Discharge Fitting Detail
(Specify)

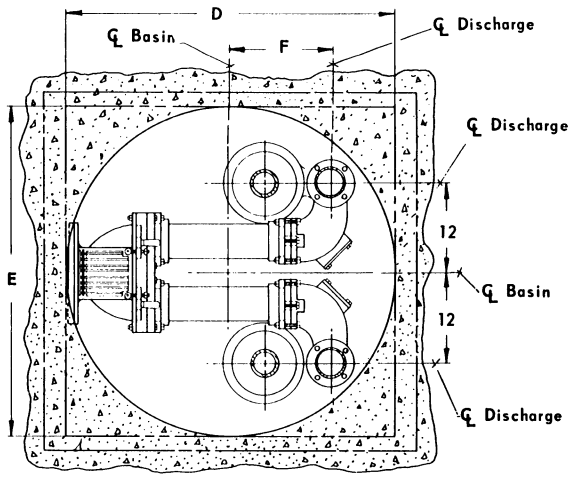


✓	TYPE BASIN	FIGURE NO.	TYPE COVER MOUNTING	TYPE COVER	DEPTH BASIN SPECIFY A	℄ INLET SPECIFY B	COVER THICKNESS C
	CAST IRON	1	TOP OF BASIN	STEEL			.44
	CONCRETE (no curb ring)	2					
	STEEL	1					
	FIBERGLASS	1					
	CONCRETE (w/steel curb ring)	3	FLUSH WITH FLOOR				

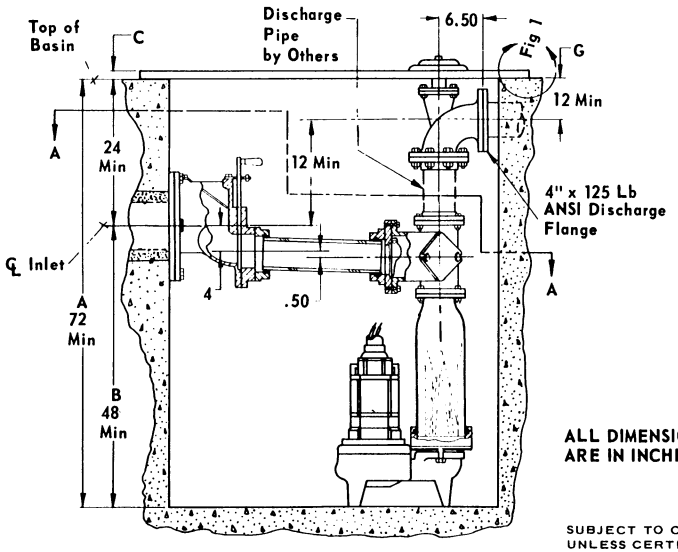
CUSTOMER _____ JOB NAME _____
P.O. NO. _____ ITEM NO. _____
S.O. NO. _____ SERIAL NO. _____
MOTOR MFR. _____ ENCL. _____ FRAME _____ H.P. _____ VOLTS _____ PH. _____ HZ. _____
PUMP TYPE & SIZE _____ RPM _____ G.P.M. _____ TOTAL HD. FT. _____
CERTIFIED FOR ☐ APPROVAL ☐ CONSTRUCTION BY _____ DATE _____

DT 4848667

SUBMERSIBLE SEWAGE PUMPS
TYPE UW
FLUSH KLEEN® FITTINGS
Size 6 x 4 Type F Series P
Below Grade Discharge



SECTION A-A



ALL DIMENSIONS ARE IN INCHES

SUBJECT TO CHANGE UNLESS CERTIFIED FOR CONSTRUCTION

BASIN SIZE (INSIDE DIMENSION)			
TYPE	D	E	F
ROUND	60	60	10.12
	72	72	18.00
SQUARE	48	48	13.25
	60	60	10.25
	72	72	10.25

Figure 2

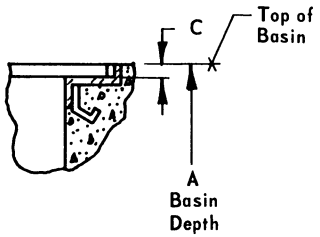


FIG. NO.	√	TYPE BASIN	TYPE COVER MOUNTING	TYPE COVER	DEPTH BASIN SPECIFY A	℄ INLET SPECIFY B	COVER THICKNESS C	℄ DISCH. SPECIFY G
1		CONCRETE (no curb ring)	TOP OF BASIN	STEEL			.44	
2		CONCRETE (w/steel curb ring)	FLUSH WITH FLOOR	STEEL			.44	

CUSTOMER _____ JOB NAME _____
P.O. NO. _____ ITEM NO. _____
S.O. NO. _____ SERIAL NO. _____
MOTOR MFR. _____ ENCL. _____ FRAME _____ H.P. _____ VOLTS _____ PH. _____ HZ. _____
PUMP TYPE & SIZE _____ RPM _____ G.P.M. _____ TOTAL HD. FT. _____
CERTIFIED FOR ☐ APPROVAL ☐ CONSTRUCTION BY _____ DATE _____

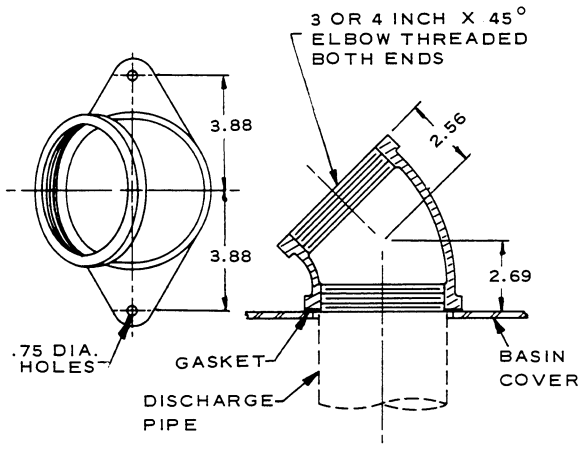
DT 4848666

Peerless Pump Company
Indianapolis, IN 46207-7025

SUBMERSIBLE SEWAGE PUMPS
Type UW

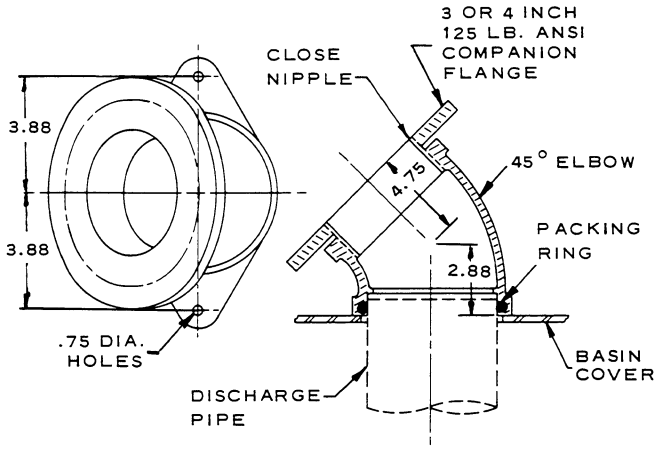
Discharge Elbow Variants Used with UW Pump Basin Covers (Optional Equipment)

DETAIL 1



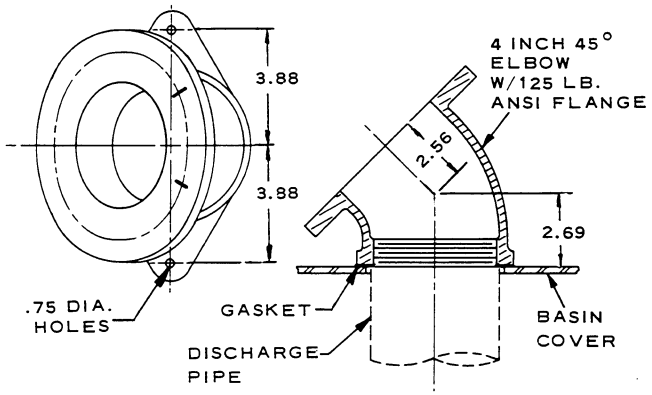
For Flush Kleen® Fittings, 3 or 4 inch pumps with basin depths over 15 feet.

DETAIL 3



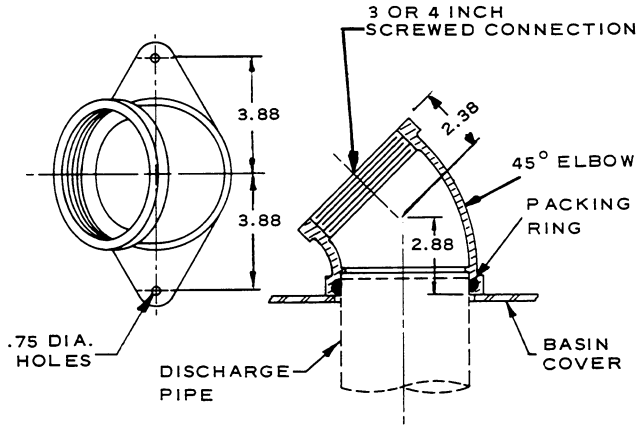
For 3 or 4 inch pumps with basin depths thru 15 feet.

DETAIL 2



For Flush Kleen® Fittings or 4 inch pumps with basin depths thru 30 feet.

DETAIL 4



For 3 or 4 inch pumps with basin depths thru 15 feet.

SPECIFY DISCHARGE VARIANT

- ☐ Detail 1
- ☐ Detail 3
- ☐ Detail 2
- ☐ Detail 4

✓	Pump Type & Size	Disch. Pipe Size
	UWNSB3	3
	UWLMB3	
	UWLLB3	

✓	Pump Type & Size	Disch. Pipe Size
	UWNSBC4	4
	UWLMBC4	
	UWLLBC4	
	UWLMB4	
	Flush Kleen® Fittings	

CUSTOMER _____ JOB NAME _____

P.O. NO. _____ ITEM NO. _____

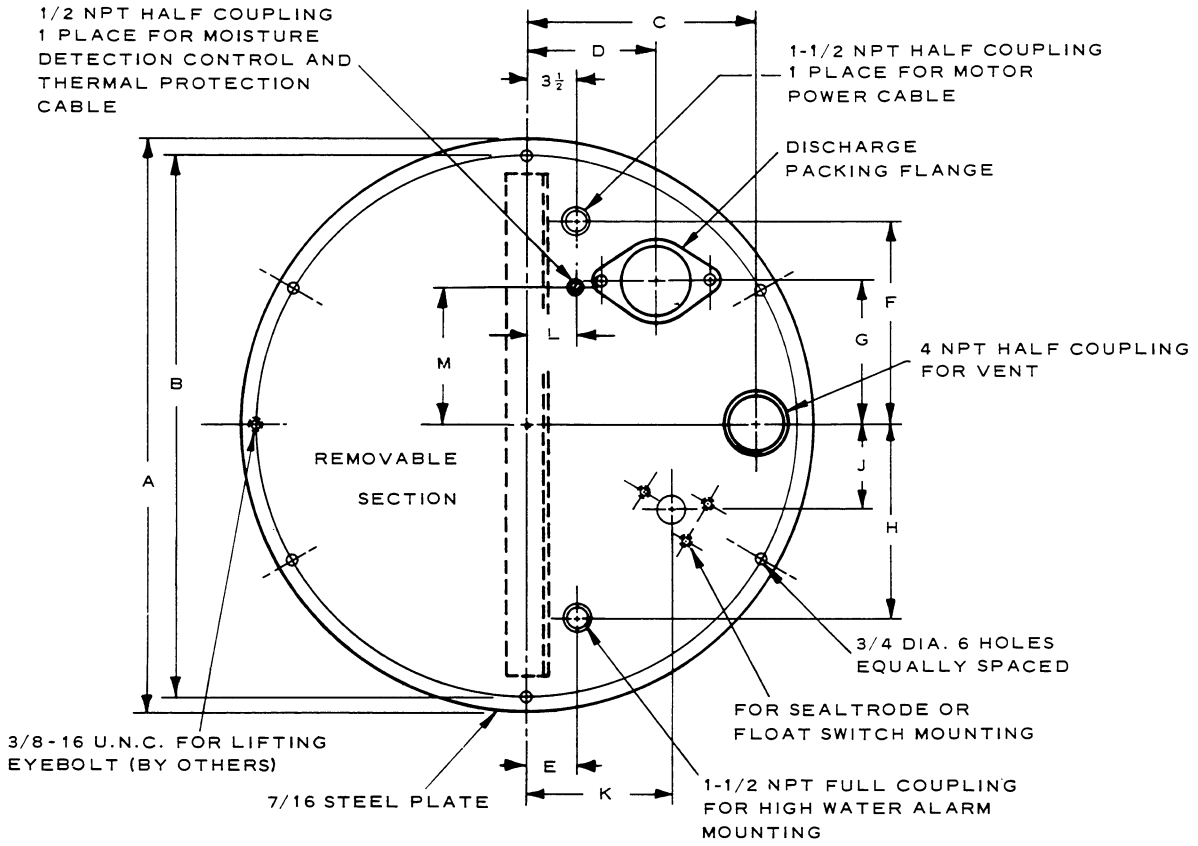
S.O. NO. _____ SERIAL NO. _____

CERTIFIED FOR ☐ APPROVAL ☐ CONSTRUCTION BY _____ DATE _____

SUBJECT TO CHANGE UNLESS CERTIFIED FOR CONSTRUCTION

SUBMERSIBLE SEWAGE PUMPS
Type UW
Round Basin Cover
30 and 36 Inch Dia. Simplex

Peerless Pump Company
Indianapolis, IN 46207-7026



✓	BASIN SIZE	A	B	C	D	E	F	G	H	J	K	L	M	Wt. Lbs.
	30"	34	32½	13	7	3 1/16	12½	7	11½	4½	7¾	2	8½	96
	36"	40	38½	16	9	3⅝	14½	10	13½	6	10⅜	3½	10	134

NOTES:

(1) 3" or 4" packing flanges for basin cover mounting and for mounting pipe to pump are furnished by Pump Div. to match pump discharge pipe size.

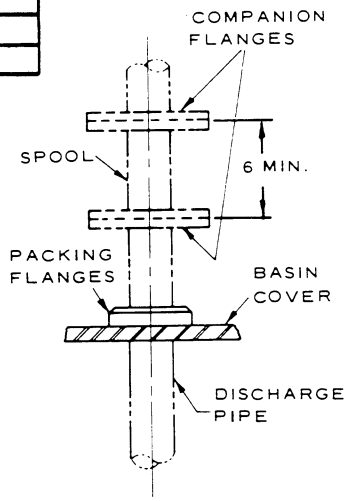
(2) 3" or 4" screw and flanged elbows are available as variants for replacing standard packing flanges at basin cover. See page DT 4846418 for details.

(3) Discharge pipe and companion flanges shown in phantom furnished by others.
A spool in discharge piping above basin cover as shown in elevation view is recommended for ease in assembly and disassembly of installation.

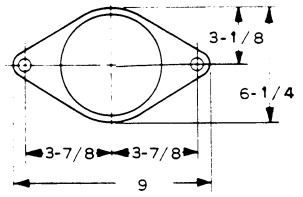
(4) Covers are furnished with black enamel paint.

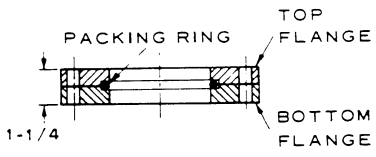
(5) For gastight installations use a gasket or non-hardening sealing compound to seal the basin cover to the basin or to the curb ring. (By others.)

(6) Vent and high water alarm opening when not used to be plugged by others.



ELEVATION VIEW





PACKING FLANGE STANDARD
for sealing discharge pipe at basin cover

ALL DIMENSIONS ARE IN INCHES

CUSTOMER _____ JOB NAME _____

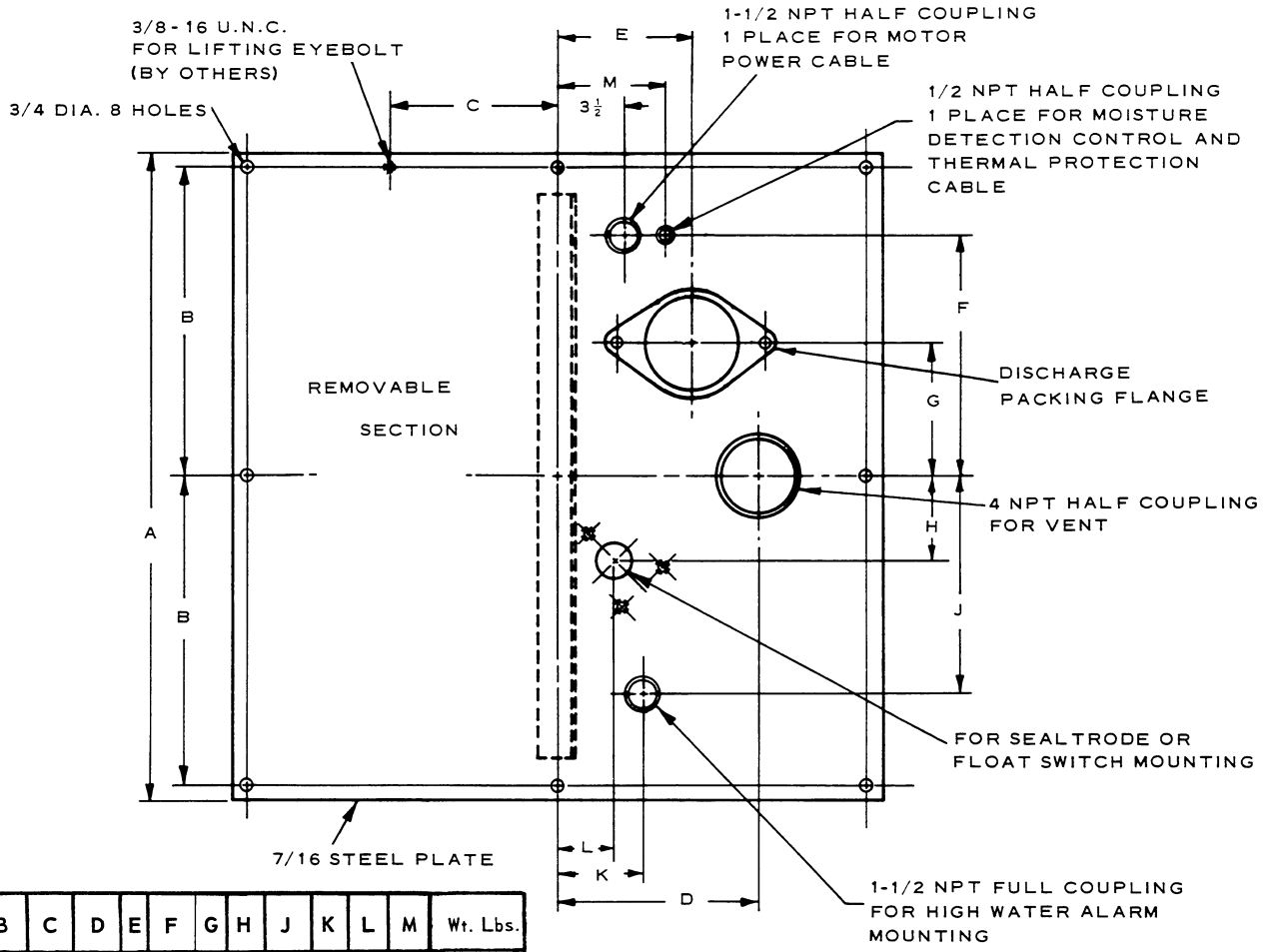
P.O. NO. _____ ITEM NO. _____

S.O. NO. _____ SERIAL NO. _____ Pump Model No. _____

CERTIFIED FOR ☐ APPROVAL ☐ CONSTRUCTION BY _____ DATE _____

SUBJECT TO CHANGE
UNLESS CERTIFIED
FOR CONSTRUCTION

SUBMERSIBLE SEWAGE PUMPS
Type UW
Square Basin Cover
30 and 36 Inch Simplex



✓	BASIN SIZE	A	B	C	D	E	F	G	H	J	K	L	M	Wt. Lbs.
	30"	34	16¼	8¾	10½	7	12½	7	4½	11½	4½	3 1/16	7	134
	36"	40	19¼	10	13	9	14½	10	6	13½	6	3⅝	6½	162

NOTES:

(1) 3" or 4" packing flanges for basin cover mounting and for mounting pipe to pump are furnished by Pump Div. to match pump discharge pipe size.

(2) 3" or 4" screw and flanged elbows are available as variants for replacing standard packing flanges at basin cover. See page DT 4846418 for details.

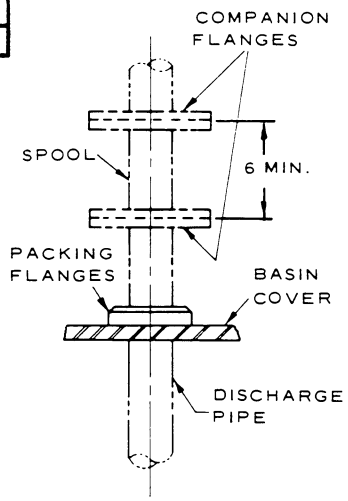
(3) Discharge pipe and companion flanges shown in phantom furnished by others.
A spool in discharge piping above basin cover as shown in elevation view is recommended for ease in assembly and disassembly of installation.

(4) Covers are furnished with black enamel paint.

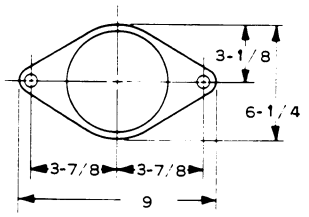
(5) For gastight installations use a gasket or non-hardening sealing compound to seal the basin cover to the basin or to the curb ring. (By others.)

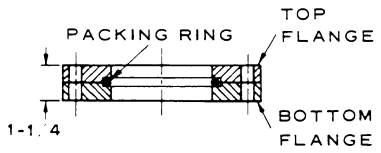
(6) Vent and high water alarm opening when not used to be plugged by others.

ALL DIMENSIONS ARE IN INCHES



ELEVATION VIEW





PACKING FLANGE STANDARD
for sealing discharge pipe at basin cover

CUSTOMER _____ JOB NAME _____

P.O. NO. _____ ITEM NO. _____

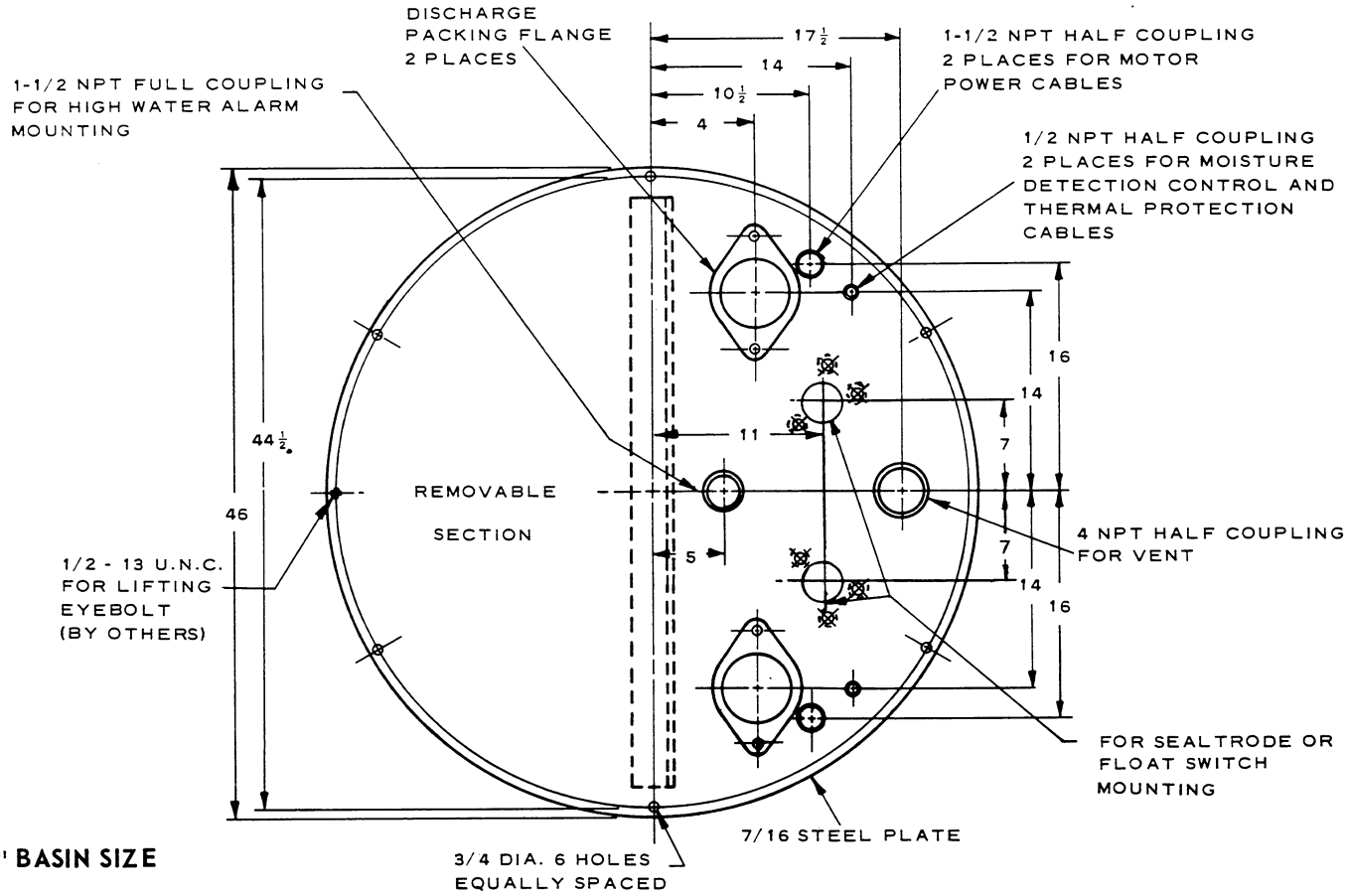
S.O. NO. _____ SERIAL NO. _____ Pump Model No. _____

CERTIFIED FOR ☐ APPROVAL ☐ CONSTRUCTION BY _____ DATE _____

SUBJECT TO CHANGE
UNLESS CERTIFIED
FOR CONSTRUCTION

SUBMERSIBLE SEWAGE PUMPS
Type UW
Round Basin Cover
42 Inch Dia. Duplex

Peerless Pump Company
Indianapolis, IN 46207-7026



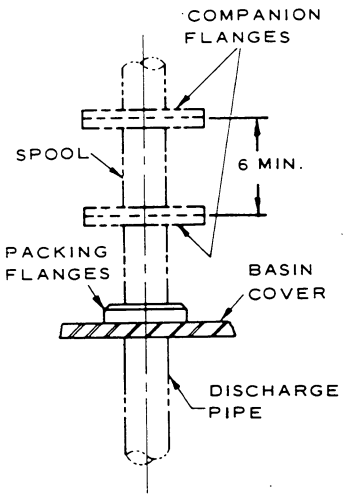
42" BASIN SIZE

NOTES:

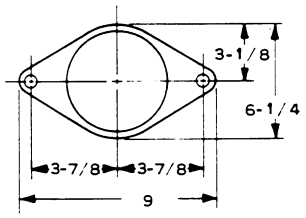
(1) 3" or 4" packing flanges for basin cover mounting and for mounting pipe to pump are furnished by Pump Div. to match pump discharge pipe size.
(2) 3" or 4" screw and flanged elbows are available as variants for replacing standard packing flanges at basin cover. See page DT 4846418 for details.
(3) Discharge pipe and companion flanges shown in phantom furnished by others.
A spool in discharge piping above basin cover as shown in elevation view is recommended for ease in assembly and disassembly of installation.
(4) Cover is furnished with black enamel paint.
(5) For gastight installations use a gasket or non-hardening sealing compound to seal the basin cover to the basin or to the curb ring. (By others.)
(6) Vent and high water alarm opening when not used to be plugged by others.

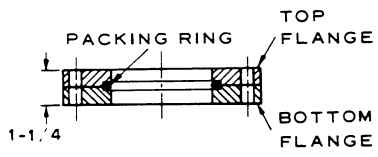
OPTIONAL EQUIPMENT:

☐ Discharge Blank-off Plate



ELEVATION VIEW





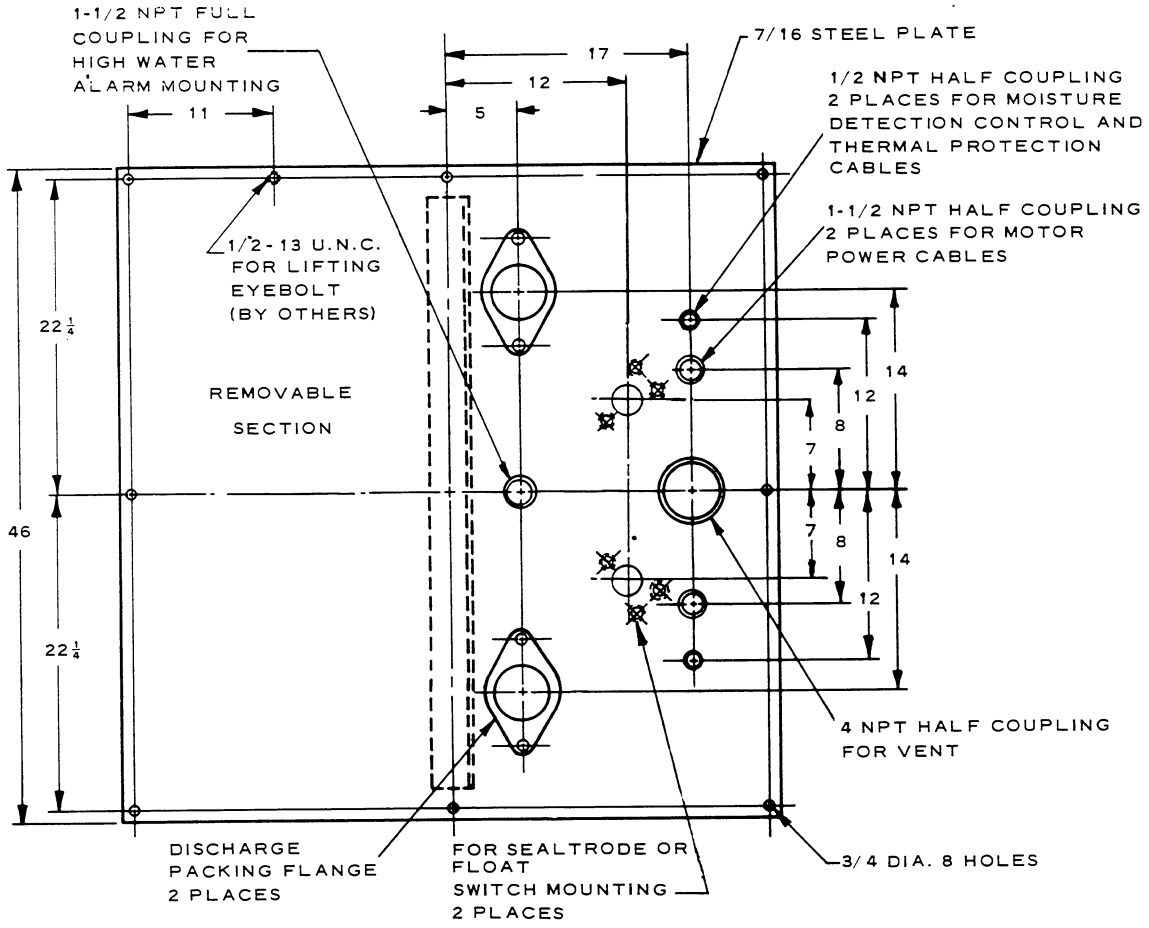
PACKING FLANGE STANDARD
for sealing discharge pipe at basin cover

ALL DIMENSIONS ARE IN INCHES

CUSTOMER _____ JOB NAME _____
P.O. NO. _____ ITEM NO. _____ Wt. Lbs. 200
S.O. NO. _____ SERIAL NO. _____ Pump Model No. _____
CERTIFIED FOR ☐ APPROVAL ☐ CONSTRUCTION BY _____ DATE _____

SUBJECT TO CHANGE UNLESS CERTIFIED FOR CONSTRUCTION

SUBMERSIBLE SEWAGE PUMPS
Type UW
Square Basin Cover
42 Inch Duplex



42" BASIN SIZE

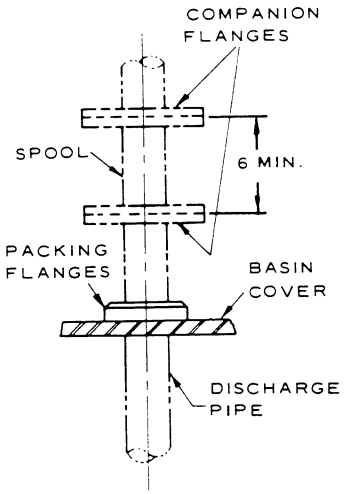
NOTES:

(1) 3" or 4" packing flanges for basin cover mounting and for mounting pipe to pump are furnished by Pump Div. to match pump discharge pipe size.
(2) 3" or 4" screw and flanged elbows are available as variants for replacing standard packing flanges at basin cover. See page DT 4846418 for details.
(3) Discharge pipe and companion flanges shown in phantom furnished by others.
A spool in discharge piping above basin cover as shown in elevation view is recommended for ease in assembly and disassembly of installation.
(4) Cover is furnished with black enamel paint.
(5) For gastight installations use a gasket or non-hardening sealing compound to seal the basin cover to the basin or to the curb ring. (By others.)
(6) Vent and high water alarm opening when not used to be plugged by others.

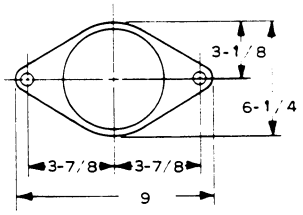
OPTIONAL EQUIPMENT:

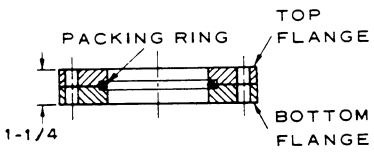
☐ Discharge Blank-off Plate

ALL DIMENSIONS ARE IN INCHES



ELEVATION VIEW





PACKING FLANGE STANDARD
for sealing discharge pipe at basin cover

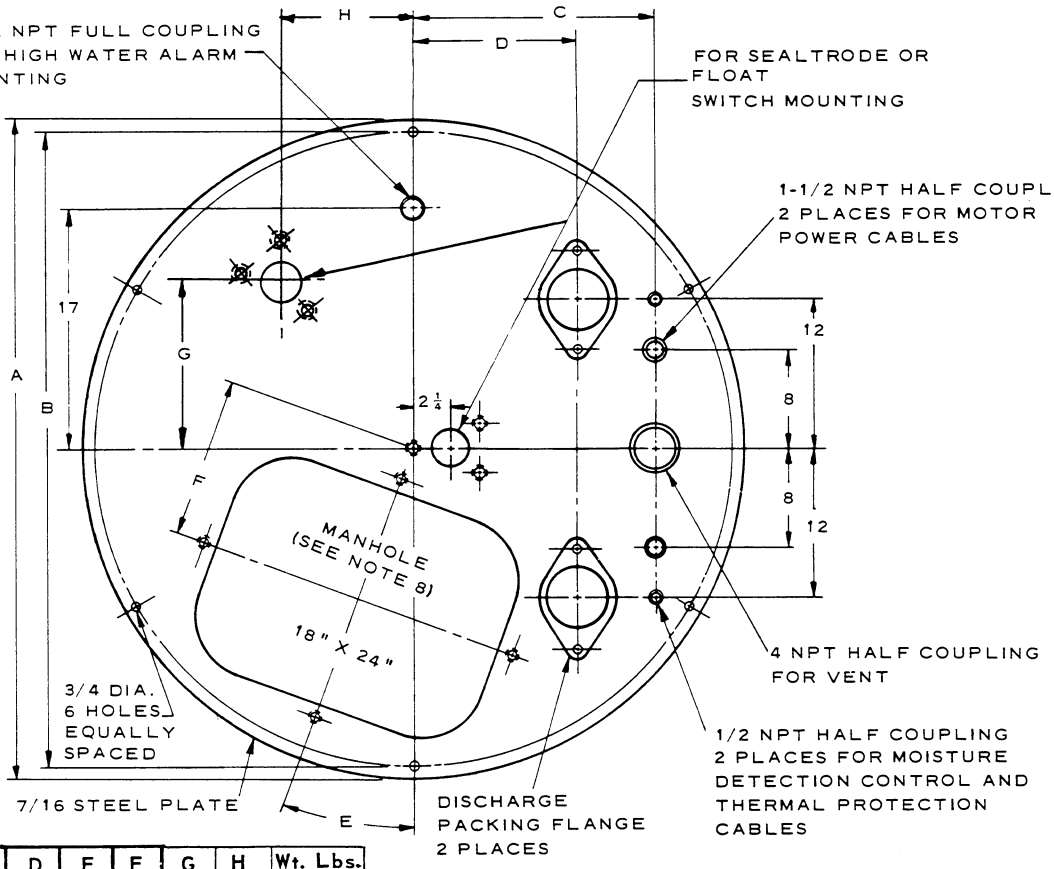
CUSTOMER _____ JOB NAME _____
P.O. NO. _____ ITEM NO. _____ Wt. Lbs. 214
S.O. NO. _____ SERIAL NO. _____ Pump Model No. _____
CERTIFIED FOR ☐ APPROVAL ☐ CONSTRUCTION BY _____ DATE _____

SUBJECT TO CHANGE UNLESS CERTIFIED FOR CONSTRUCTION

SUBMERSIBLE SEWAGE PUMPS
Type UW
Round Basin Cover
48, 60 and 72 Inch Dia. Duplex

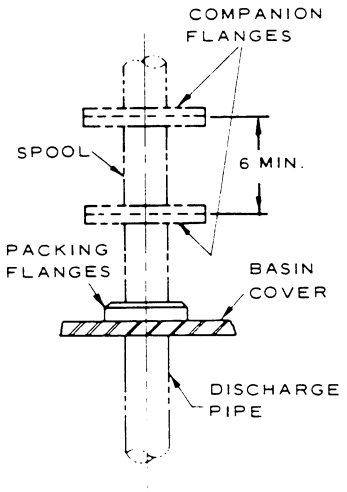
Peerless Pump Company
Indianapolis, IN 46207-7025

OPTIONAL EQUIPMENT:
☐ Discharge Blank-off Plate

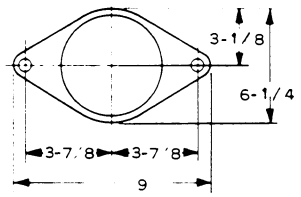


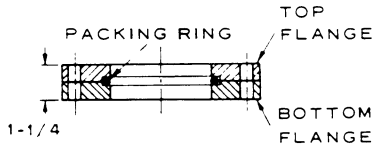
✓	BASIN SIZE	A	B	C	D	E	F	G	H	Wt. Lbs.
	48"	53	51	19½	13¼	20°	13	10⅞	13	270
	60"	66	63	21	10⅛	30°	15	10⅞	13	430
	72"	78	75	30	18	30°	21	19	14 9/16	560

NOTES:
(1) 3" or 4" packing flanges for basin cover mounting and for mounting pipe to pump are furnished by Pump Div. to match pump discharge pipe size.
(2) 3" or 4" screw and flanged elbows are available as variants for replacing standard packing flanges at basin cover. See page DT 4846418 for details.
(3) Flush Kleen® System always uses 4" elbow in lieu of packing flanges.
(4) Discharge pipe and companion flanges shown in phantom furnished by others.
A spool in discharge piping above basin cover as shown in elevation view is recommended for ease in assembly and disassembly of installation.
(5) Covers are furnished with black enamel paint.
(6) For gastight installations use a gasket or non-hardening sealing compound to seal the basin cover to the basin or to the curb ring. (By others.)
(7) Vent and high water alarm opening when not used to be plugged by others.
(8) Manhole cover furnished by Pump Division.



ELEVATION VIEW





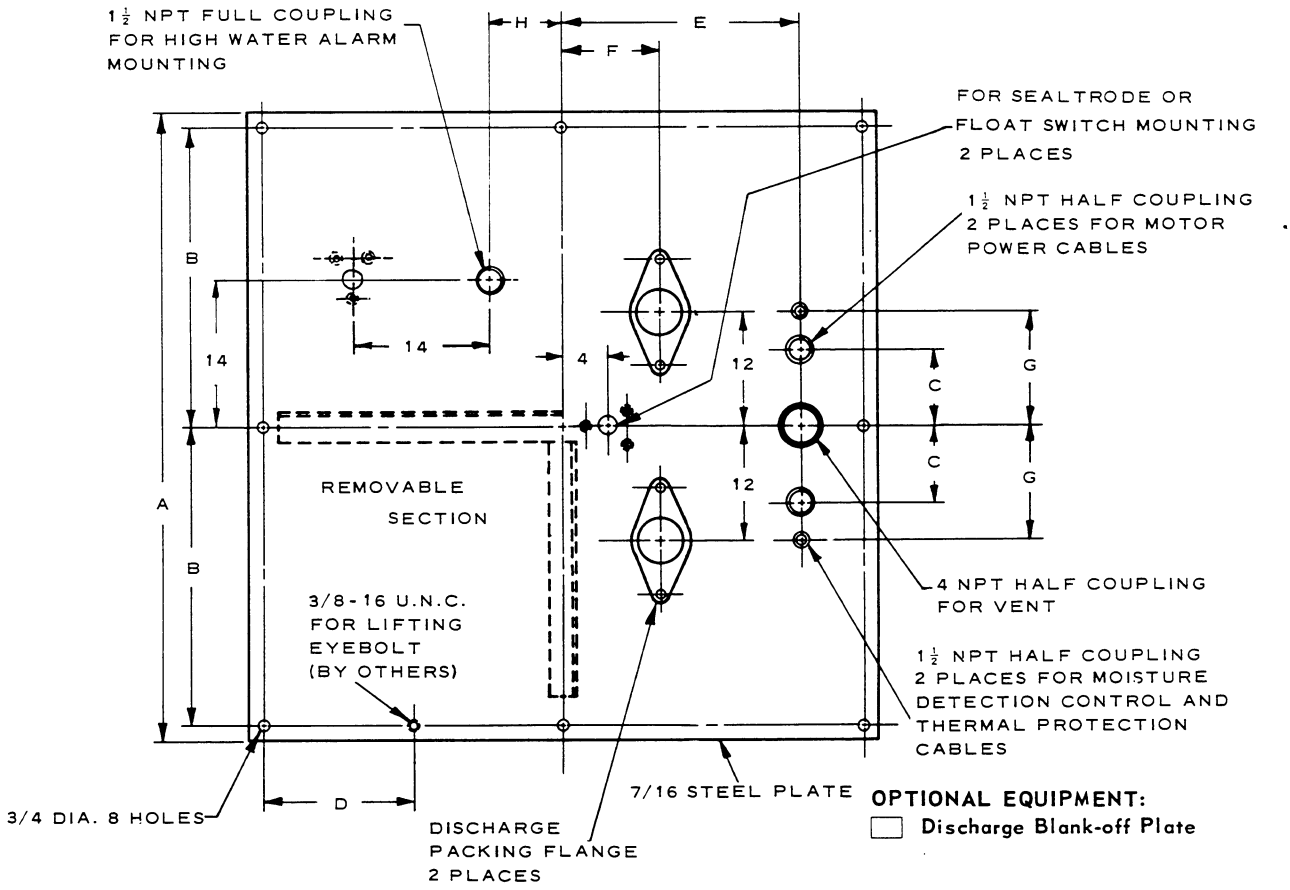
PACKING FLANGE STANDARD
for sealing discharge pipe at basin cover

ALL DIMENSIONS ARE IN INCHES

CUSTOMER _____ JOB NAME _____
P.O. NO. _____ ITEM NO. _____
S.O. NO. _____ SERIAL NO. _____ Pump Model No. _____
CERTIFIED FOR ☐ APPROVAL ☐ CONSTRUCTION BY _____ DATE _____

SUBJECT TO CHANGE UNLESS CERTIFIED FOR CONSTRUCTION

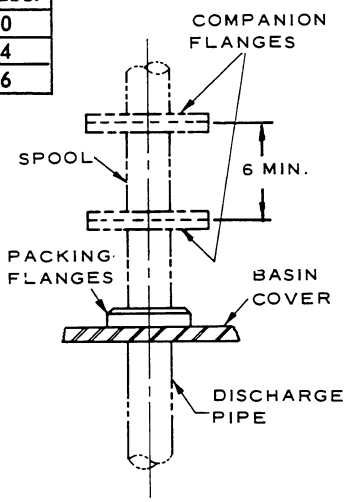
SUBMERSIBLE SEWAGE PUMPS
Type UW
Square Basin Cover
48, 60 and 72 Inch Duplex



OPTIONAL EQUIPMENT:
☐ Discharge Blank-off Plate

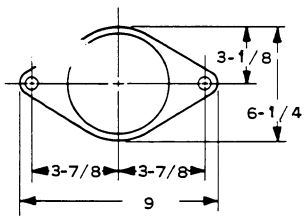
✓	BASIN SIZE	A	B	C	D	E	F	G	H	Wt. Lbs.
	48"	53	25½	8	12¾	19½	13¼	12	10	360
	60"	66	31½	8	15¾	25	10¼	12	8	504
	72"	78	37½	12	18¾	31	10¼	16	8	756

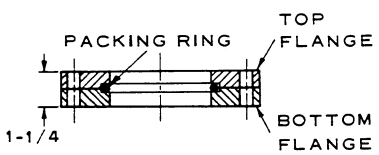
NOTES:
(1) 3" or 4" packing flanges for basin cover mounting and for mounting pipe to pump are furnished by Pump Div. to match pump discharge pipe size.
(2) 3" or 4" screw and flanged elbows are available as variants for replacing standard packing flanges at basin cover. See page DT 4846418 for details.
(3) Flush Kleen® System always uses 4" elbow in lieu of packing flanges.
(4) Discharge pipe and companion flanges shown in phantom furnished by others.
A spool in discharge piping above basin cover as shown in elevation view is recommended for ease in assembly and disassembly of installation.
(5) Covers are furnished with black enamel paint.
(6) For gastight installations use a gasket or non-hardening sealing compound to seal the basin cover to the basin or to the curb ring. (By others.)
(7) Vent and high water alarm opening when not used to be plugged by others.



ELEVATION VIEW

ALL DIMENSIONS ARE IN INCHES





PACKING FLANGE STANDARD
for sealing discharge pipe at basin cover

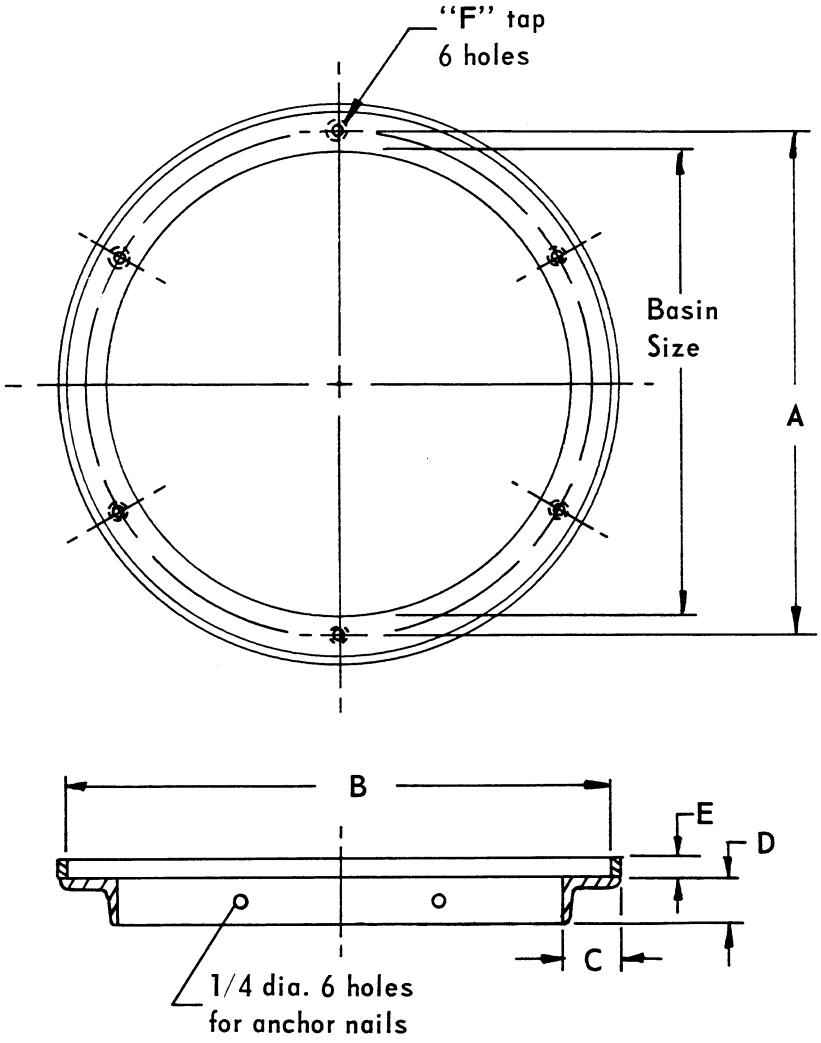
CUSTOMER _____ JOB NAME _____
P.O. NO. _____ ITEM NO. _____
S.O. NO. _____ SERIAL NO. _____ Pump Model No. _____
CERTIFIED FOR ☐ APPROVAL ☐ CONSTRUCTION BY _____ DATE _____

SUBJECT TO CHANGE UNLESS CERTIFIED FOR CONSTRUCTION

SUBMERSIBLE SEWAGE PUMPS

Type UW
Round Steel Curb Ring
30, 36, 42, 48 and 60 Inch Dia.

Peerless Pump Company
Indianapolis, IN 46207-7025



✓	TABLE OF DIMENSIONS							Wt. Lbs.
	Basin Size	A	B	C	D	E	F	
	30	32-1/2	34-1/2	2-1/2	1-1/2	1/2	3/8	35
	36	38-1/2	40-1/2	2-1/2	2	1/2	5/8	45
	42	44-1/2	46-1/2	2-1/2	2	1/2	5/8	55
	48	51	53-1/2	3	2-1/2	1/2	5/8	95
	60	63	66-1/2	3-1/2	2-1/2	1/2	5/8	105

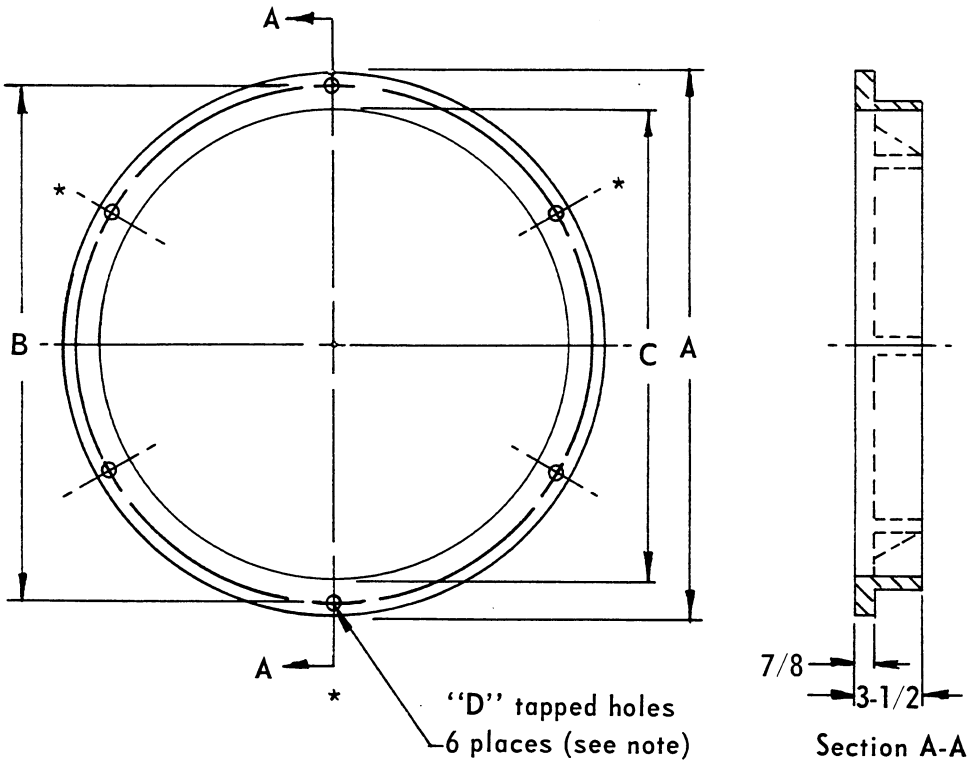
All dimensions are inches

CUSTOMER _____ JOB NAME _____
P.O. NO. _____ ITEM NO. _____
S.O. NO. _____ SERIAL NO. _____
CERTIFIED FOR ☐ APPROVAL ☐ CONSTRUCTION BY _____ DATE _____

SUBJECT TO CHANGE
UNLESS CERTIFIED
FOR CONSTRUCTION

SUBMERSIBLE SEWAGE PUMPS

Type UW
Round Cast Iron Curb Ring
30, 36, 42, 48, and 60 Inch Dia.



√	TABLE OF DIMENSIONS					Wt Lbs
	Basin Size	A	B	C	D	
	30	34	32-1/2	30	3/8	80
	36	40	38-1/2	36	5/8	125
	42	46	44-1/2	42	5/8	142
	48	53	51	48	5/8	172
	60	66	63	60	5/8	260

All dimensions are inches

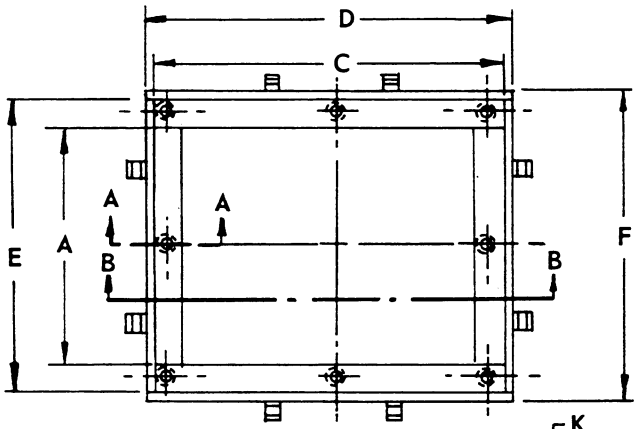
CUSTOMER _____ JOB NAME _____
P.O. NO. _____ ITEM NO. _____
S.O. NO. _____ PUMP MODEL NO. _____ WEIGHT LBS. _____
CERTIFIED FOR ☐ APPROVAL ☐ CONSTRUCTION BY _____ DATE _____

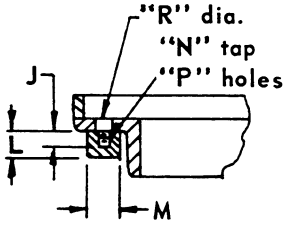
SUBJECT TO CHANGE
UNLESS CERTIFIED
FOR CONSTRUCTION

SUBMERSIBLE SEWAGE PUMPS

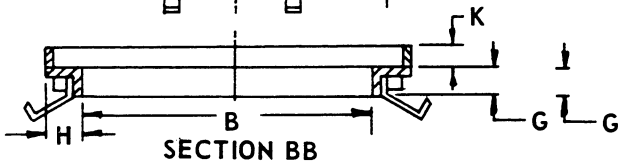
Type UW
Square Steel Curb Ring
30, 36, 42, 48 and 60 Inch

Peerless Pump Company
Indianapolis, IN 46207-7026





SECTION AA



SECTION BB

All dimensions are inches

TABLE OF DIMENSIONS																	Wt. Lbs.
	✓	A	B	C	D	E	F	G	H	J	K	L	M	N	P	R	
SQUARE CURB RING		30	30	34½	35	34½	35	2		⅝	½	1	1	⅜	8	½	50
		36	36	40½	41	40½	41			⅞		1⅜	1¼	⅝		¾	60
		42	42	46½	47	46½	47										70
		48	48	53½	54	53½	54	2½	3								115
		60	60	66½	67	66½	67		3½								125

CUSTOMER _____ JOB NAME _____

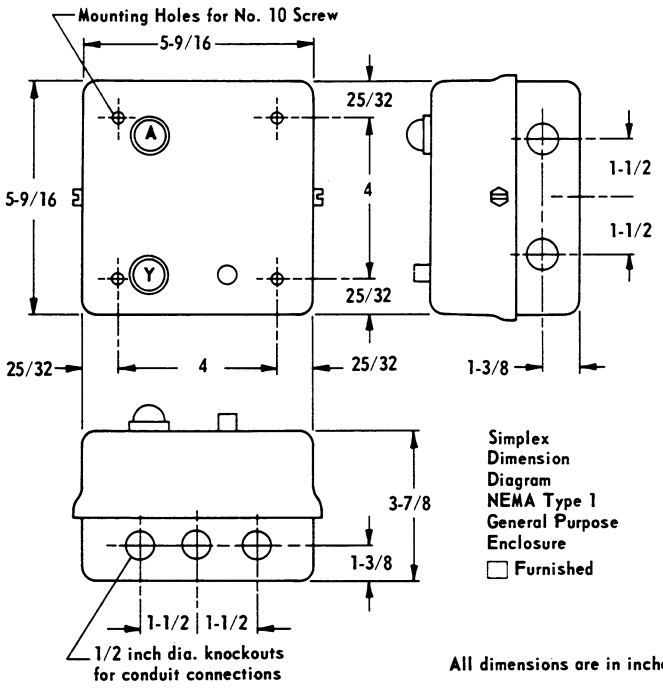
P.O. NO. _____ ITEM NO. _____

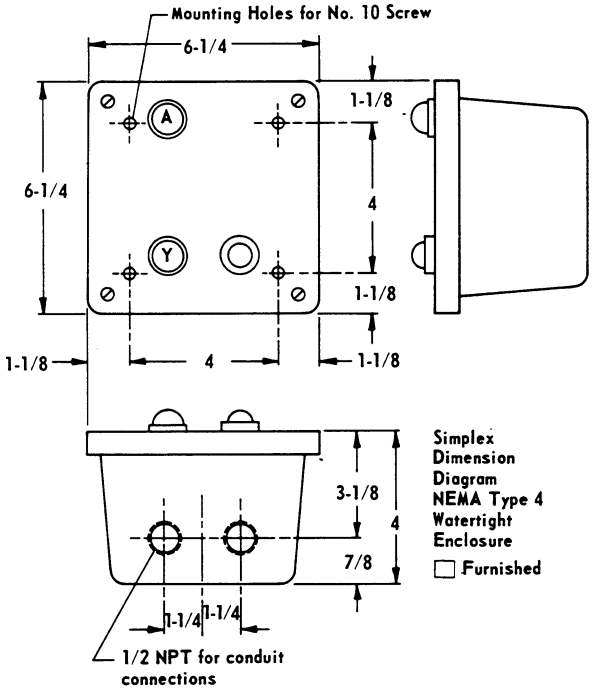
S.O. NO. _____ PUMP MODEL NO. _____ WEIGHT LBS. _____

CERTIFIED FOR ☐ APPROVAL ☐ CONSTRUCTION BY _____ DATE _____

SUBJECT TO CHANGE
UNLESS CERTIFIED
FOR CONSTRUCTION

SUBMERSIBLE SEWAGE PUMPS
Type UW
Simplex Moisture Detection Controller





INSTALLATION, OPERATION AND MAINTENANCE INSTRUCTIONS

General

The Moisture Detection Controller is a conductance actuated control for detecting moisture in the oil chamber of a submersible pump motor. It is used as a warning device to indicate a seal leakage and to signal the need for preventative maintenance.

Installation

Mount control box vertically on wall or other solid structure and accomplish all indicated wiring. Terminals on the control are numbered and are in the same relative position as shown on the wiring diagram. Terminal pair 1-2 must be continuously energized from an A.C. supply line of electrical characteristics shown on the data plate. Contacts 5-6 and/or 7-8 are available for load duty, and if required, must be wired in Series with the load device or devices, and that series branch circuit connected across a power source compatible with the load. Terminals 9-10 are connected to the moisture sensing probes in the motor marked W1-W2 via the cable provided with the motor.

Operation

Normally the oil surrounding the probes is nonconductive, and the control and seal leakage indicator light will be de-energized. An influx of moisture past the outer seal and into the oil reservoir will change the conductivity of the oil and this condition will cause the relay to energize, and the seal leakage light will energize to indicate a seal leakage. Load contacts 5-6 and/or 7-8 will also change from their normally open or normally closed position when the control energizes.

Test Procedure

A normally closed pushbutton and neon indicating lamp are provided as a part of the control for testing the moisture sensing components. The motor manufacturer has provided a 330,000 ohm resistor across the probes inside the motor to complete the test. When the test pushbutton is depressed, the neon indicating lamp will be illuminated to indicate: (a) Power is supplied to the control.
(b) The control is operative.
(c) The wiring to the moisture sensing probes in the motor is intact.

This check does not simulate a seal leakage. An additional check can be made by removing the enclosure cover and momentarily placing a jumper (or 20,000 ohm resistor) across terminals 9-10 on the control. This will energize the control, and test out the neon indicating lamp and associated voltage dropping resistor across terminal 2 and 4.

CAUTION: Voltage will be present at all terminals on the control when this test is being made.

CUSTOMER _____ JOB NAME _____

P.O. NO. _____ ITEM NO. _____

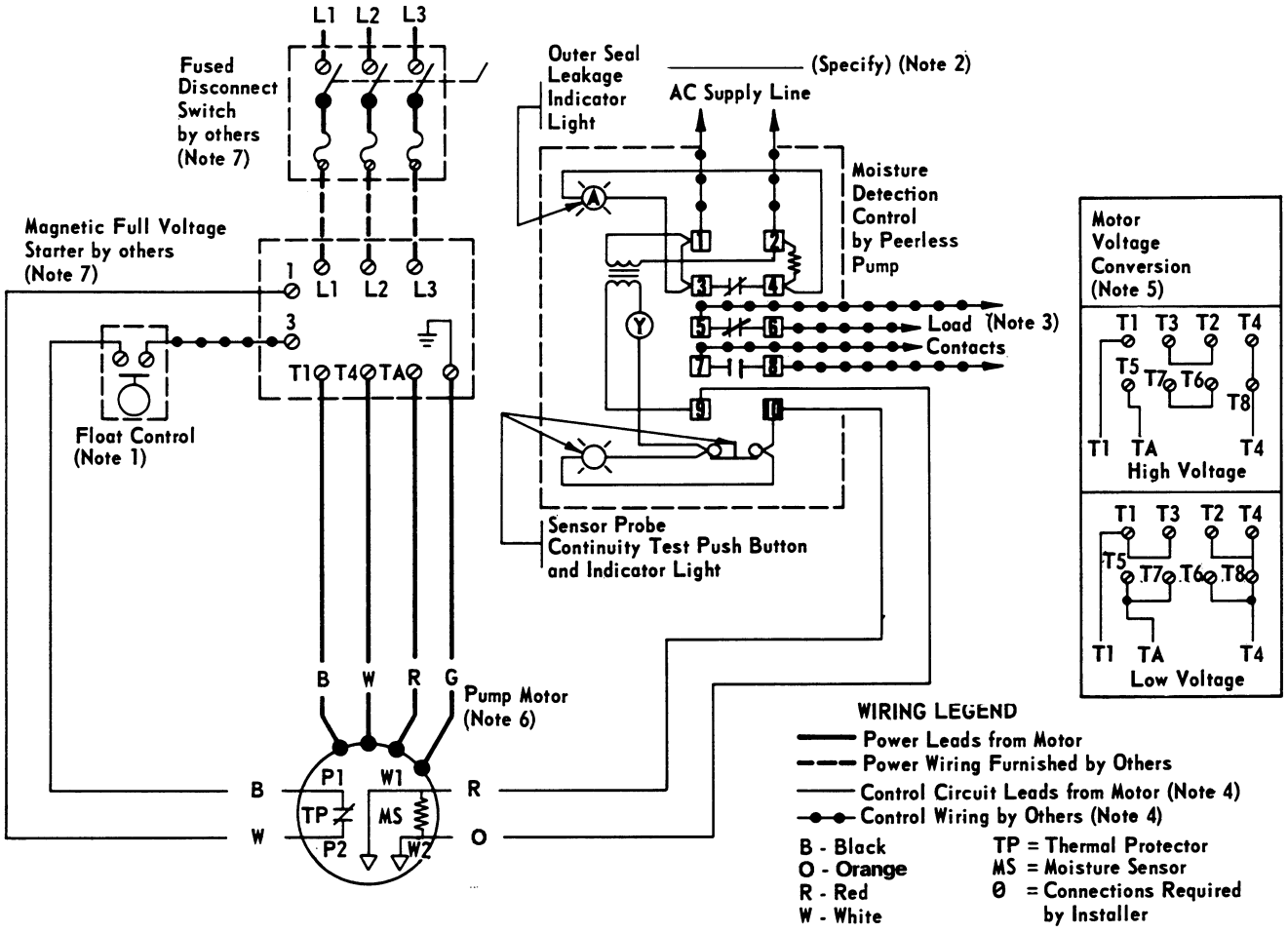
S.O. NO. _____ PUMP MODEL NO. _____

CERTIFIED FOR ☐ APPROVAL ☐ CONSTRUCTION BY _____ DATE _____

SUBJECT TO CHANGE
UNLESS CERTIFIED
FOR CONSTRUCTION

SUBMERSIBLE SEWAGE PUMPS
Type UW
Three Phase Wiring Diagram
C84A or C93A Float Controls

Peerless Pump Company
Indianapolis, IN 46207-7026



NOTES:

1. Float Control must be wired in series with P_1 & P_2 and set to open circuit when liquid level drops no lower than minimums shown on pump dimension drawings.
2. Connect to A.C. supply line of voltage required. All wiring must be in accordance with N.E.C. and/or local electrical codes.
3. Connect terminals 7 & 8 to remote alarm device (by others). Terminals 5 & 6 can be wired in series with float control to shut pump down if moisture is de-detected.
4. Combined length of control circuit leads and control wiring to moisture detection control must not exceed 100 feet.
5. Motors are furnished by factory with motor leads connected for specified voltage. If it is necessary for voltage to be changed in the field reconnect terminals in motor terminal head in accordance with conversion diagrams. Splices must be watertight (see motor instructions for further information).
6. The motor warranty is valid only if moisture detection and thermal protection system is connected and operable. Failure to utilize these voids warranty.
7. Connections to motor starter and disconnect switch are typical only. All equipment furnished by others is to be in accordance with N.E.C. and/or local electrical codes.

CUSTOMER _____ JOB NAME _____

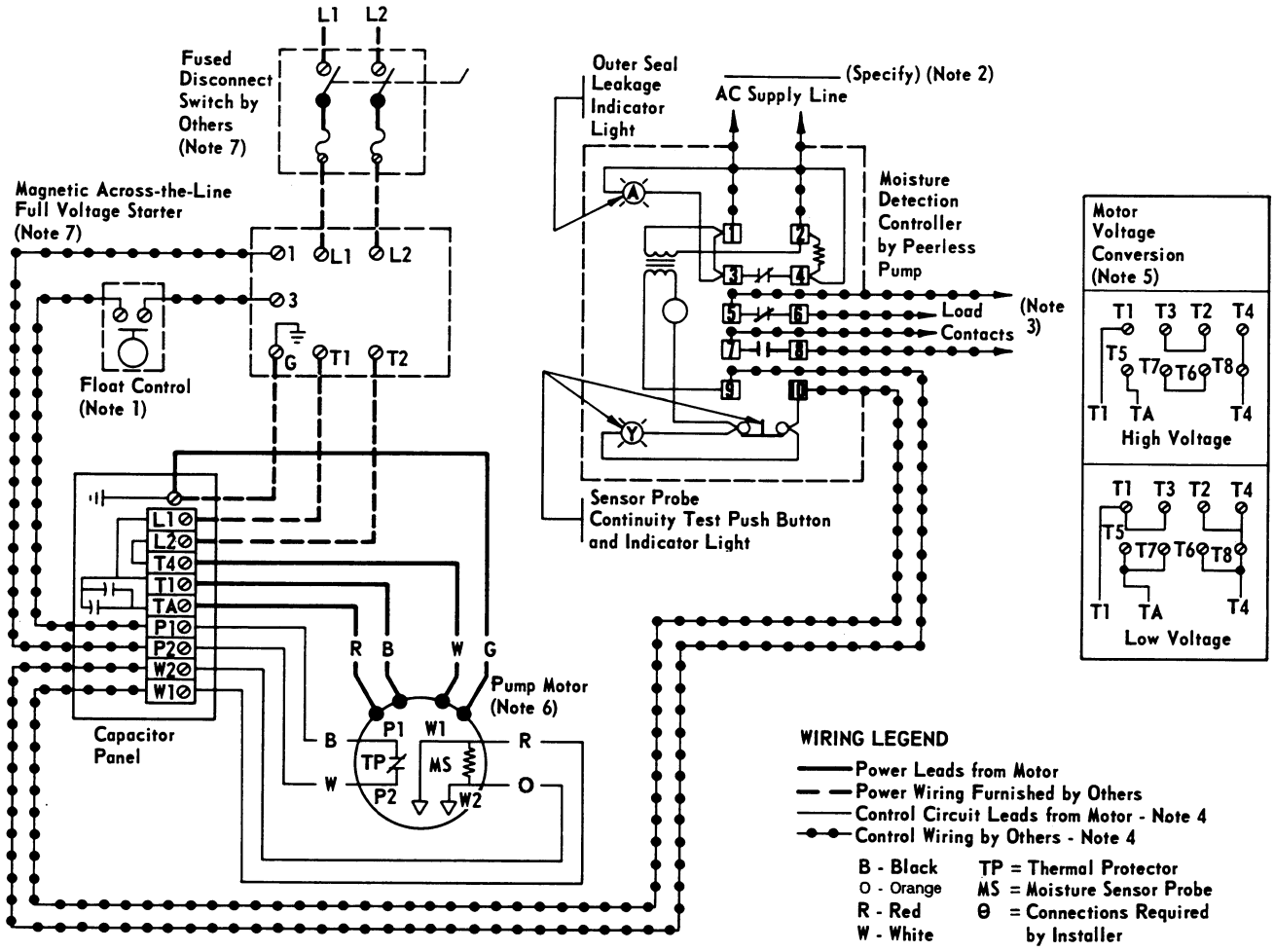
P.O. NO. _____ ITEM NO. _____

S.O. NO. _____ PUMP MODEL NO. _____

CERTIFIED FOR ☐ APPROVAL ☐ CONSTRUCTION BY _____ DATE _____

SUBJECT TO CHANGE
UNLESS CERTIFIED
FOR CONSTRUCTION

SUBMERSIBLE SEWAGE PUMPS
Type UW
Single Phase Wiring Diagram
C84A OR C93A Float Controls



NOTES:

1. Float Control must be wired in series with P_1 & P_2 and set to open circuit when liquid level drops no lower than minimums shown on pump dimension drawings.
2. Connect to A.C. supply line of voltage required. All wiring must be in accordance with N.E.C. and/or local electrical codes.
3. Connect terminals 7 & 8 to remote alarm device (by others). Terminals 5 & 6 can be wired in series with float control to shut pump down if moisture is detected.
4. Combined length of control circuit leads and control wiring to moisture detection control must not exceed 100 feet.
5. Motors are furnished by factory with motor leads connected for specified voltage. If it is necessary for voltage to be changed in the field reconnect terminals in motor terminal head in accordance with conversion diagrams. Splices must be watertight (see motor instructions for further information).
6. The motor warranty is valid only if moisture detection and thermal protection system is connected and operable. Failure to utilize these voids warranty.
7. Connections to motor starter and disconnect switch are typical only. All equipment furnished by others is to be in accordance with N.E.C. and/or local electrical codes.

CUSTOMER _____ JOB NAME _____

P.O. NO. _____ ITEM NO. _____

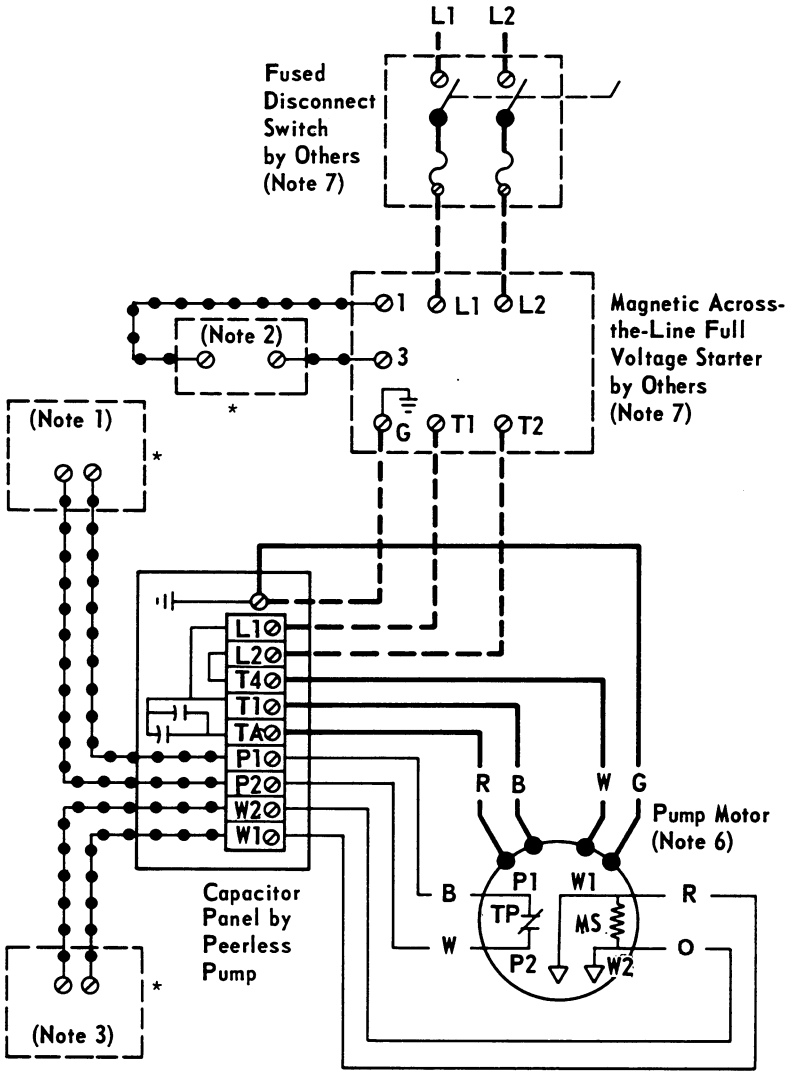
S.O. NO. _____ PUMP MODEL NO. _____

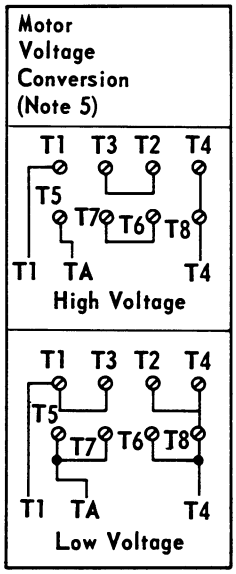
CERTIFIED FOR ☐ APPROVAL ☐ CONSTRUCTION BY _____ DATE _____

SUBJECT TO CHANGE UNLESS CERTIFIED FOR CONSTRUCTION

SUBMERSIBLE SEWAGE PUMPS
Type UW
Single Phase Wiring Diagram
Pilot Sealtrode® Controllers

Peerless Pump Company
Indianapolis, IN 46207-7025





WIRING LEGEND

- Power Leads from Motor
- Power Wiring Furnished by Others
- Control Circuit Leads from Motor - Note 4
- Control Wiring by Others - Note 4

B - Black
O - Orange
R - Red
W - White

TP = Thermal Protector
MS = Moisture Sensor Probe
θ = Connections Required by Installer

* All Terminal Connections in Notes 1, 2 & 3 for Sealtrode Pilot Controller are in One Enclosure.

NOTES:

1. Connect to terminals P_1 & P_2 in simplex pilot Sealtrode controller. Connect to respective pairs of terminals P_1, P_2 & P_3, P_4 in duplex pilot Sealtrode controllers.
2. Connect to terminals 3 & 4 in simplex pilot Sealtrode controllers. Connect to respective pairs of terminals 3, 4 & 5, 6 in duplex pilot Sealtrode controller.
3. Connect to terminals W_1 & W_2 in simplex pilot Sealtrode controller. Connect to respective pairs of terminals W_1, W_2 & W_3, W_4 in duplex pilot Sealtrode controllers.
4. Combined length of control circuit leads and control wiring to moisture detection control in pilot controller must not exceed 100 feet.
5. Motors are furnished by factory with motor leads connected for specified voltage. If it is necessary for voltage to be changed in the field reconnect terminals in motor terminal head in accordance with conversion diagrams. Splices must be watertight (see motor instructions for further information).
6. The motor warranty is valid only if moisture detection and thermal protection system is connected and operable. Failure to utilize these voids warranty.
7. Connections to motor starter and disconnect switch are typical only. All equipment furnished by others is to be in accordance with N.E.C. and/or local electrical codes.

GENERAL: See Pilot Sealtrode Controller Wiring Diagrams for further wiring details.

CUSTOMER _____ JOB NAME _____

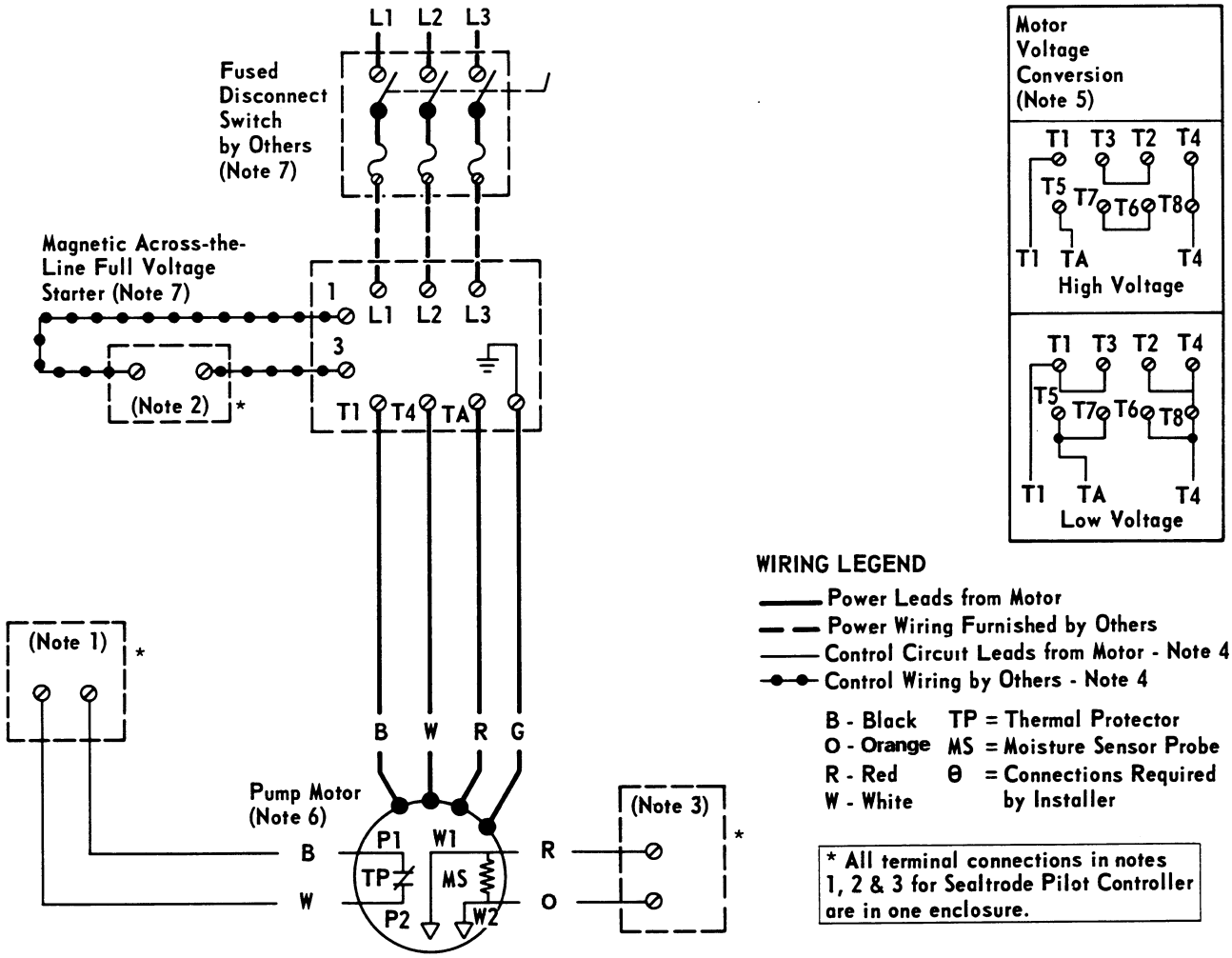
P.O. NO. _____ ITEM NO. _____

S.O. NO. _____ PUMP MODEL NO. _____

CERTIFIED FOR ☐ APPROVAL ☐ CONSTRUCTION BY _____ DATE _____

SUBJECT TO CHANGE
UNLESS CERTIFIED
FOR CONSTRUCTION

SUBMERSIBLE SEWAGE PUMPS
Type UW
Three Phase Wiring Diagram
Pilot Sealtrode® Controllers



NOTES:

1. Connect to terminals P_1 & P_2 in simplex pilot Sealtrode controller. Connect to respective pairs of terminals P_1, P_2 & P_3, P_4 in duplex pilot Sealtrode controllers.
2. Connect to terminals 3 & 4 in simplex pilot Sealtrode controllers. Connect to respective pairs of terminals 3, 4 & 5, 6 in duplex pilot Sealtrode controller.
3. Connect to terminals W_1 & W_2 in simplex pilot Sealtrode controller. Connect to respective pairs of terminals W_1, W_2 & W_3, W_4 in duplex pilot Sealtrode controllers.
4. Combined length of control circuit leads and control wiring to moisture detection control in pilot controller must not exceed 100 feet.
5. Motors are furnished by factory with motor leads connected for specified voltage. If it is necessary for voltage to be changed in the field reconnect terminals in motor terminal head in accordance with conversion diagrams. Splices must be watertight (see motor instructions for further information).
6. The motor warranty is valid only if moisture detection and thermal protection system is connected and operable. Failure to utilize these voids warranty.
7. Connections to motor starter and disconnect switch are typical only. All equipment furnished by others is to be in accordance with N.E.C. and/or local electrical codes.

GENERAL: See Pilot Sealtrode Controller Wiring Diagrams for further details.

CUSTOMER _____ JOB NAME _____

P.O. NO. _____ ITEM NO. _____

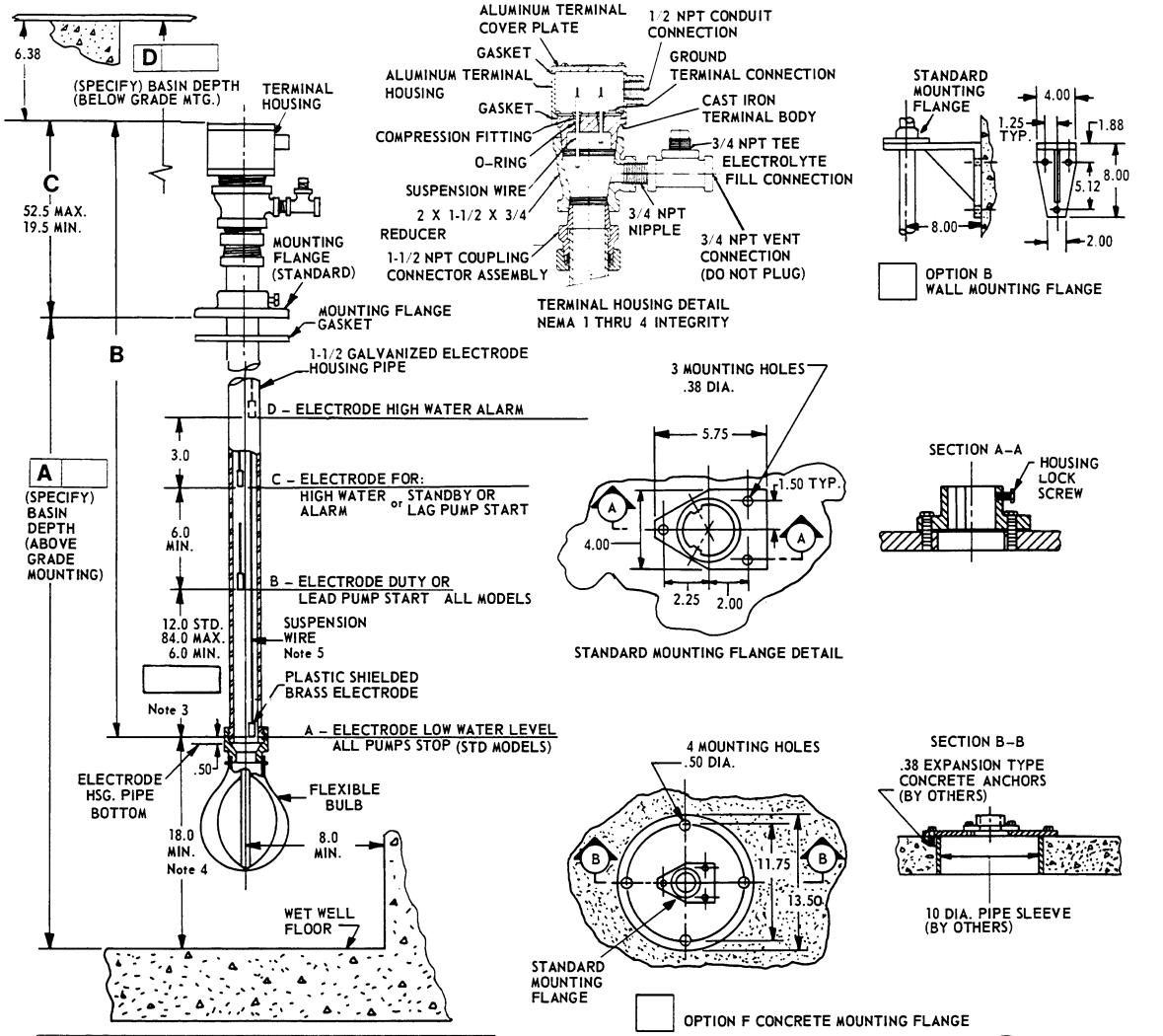
S.O. NO. _____ PUMP MODEL NO. _____

CERTIFIED FOR ☐ APPROVAL ☐ CONSTRUCTION BY _____ DATE _____

SUBJECT TO CHANGE UNLESS CERTIFIED FOR CONSTRUCTION

SEALTRODE ® TERMINAL HOUSING ASSEMBLY
For Pilot or Duplex Combination Controllers
Series 27 and 67

Peerless Pump Company
Indianapolis, IN 46207-7026



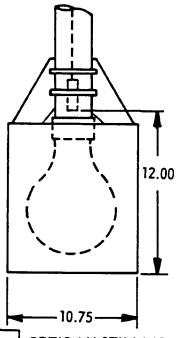
ABOVE GRADE MOUNTING DIMENSIONS
(Standard Electrode Housing Pipe)

√	A Basin Depth From Ft.-In.	A Basin Depth To Ft.-In.	Option No.	B Above Grade Mounting	C=B+18.0– Basin Depth	Weight Lbs.
	3-0	5-9	53	70.5		20
	6-0	8-9	83	106.5		30
	9-0	11-9	113	142.5		40
	12-0	14-9	143	178.5		50
	15-0	17-9	173	214.5		60
	18-0	20-9	203	250.5		70
	21-0	23-9	233	286.5		80
	24-0	26-9	263	322.5		90
	27-0	29-9	293	358.5		100

BELOW GRADE MOUNTING DIMENSIONS
(Special Length Electrode Housing Pipe) (D Minimum = 68.0)

D Basin Depth	B = Basin Depth -24.38	C	Wt. Lbs.
	Minimum B Dim. is 43.62	B 13.62	7 Lbs. + 3 Lbs. per each foot Basin Depth

Notes:
1. If terminal housing is installed in an explosive atmosphere, pipe vent connection to uncontaminated air. (Piping by others.)
2. Below grade mounting SEALTRODE is furnished with 48 inches of wire past the terminal housing. This allows the electrical connection to be made outside of the basin. DO NOT allow the liquid level in the basin to submerge the terminal housing when installed below grade.
3. Specify when other than standard setting is required.
4. The actual height must be set to keep pump casing flooded. Refer to pump dimensional drawing for minimum water level exceeding 18 inches.
5. Suspension wires in terminal housing are labeled A, B, C, D. Refer to wiring diagram for proper connections in controller.
6. Electrolyte solution consists of a mixture of 1 ounce sodium bicarbonate and 3.5 quarts of distilled water.
7. When basin depth exceeds 20 feet housing pipe must be supported by wall brackets (by others).
8. All dimensions are in inches.
9. The control panel must be installed in a non-hazardous area where explosive atmosphere will not exist at any time. Wire the Sealtrode electrode wires A, B, C, D and ground as shown in the specific application wiring diagram. A separate rigid conduit must be used to enclose the conductors of the intrinsically safe control circuit. A UL listed seal must be used at the point where the intrinsically safe control circuit wiring enters the hazardous area.



OPTION W STILLING WELL ASSEMBLY

CUSTOMER_____ JOB NAME_____

P. O NO._____ ITEM NO._____

S.O. NO._____ CONTROLLER MODEL_____ NO. OF ELECTRODES_____ WT LB_____

ELECTRODE TERMINAL HSG. ENCL._____ CONTROLLER ENCLS____ BASIN DEPTH_____ TYPE _____

CERITIFIED FOR ☐ APPROVAL ☐ CONSTRUCTION BY_____ DATE_____

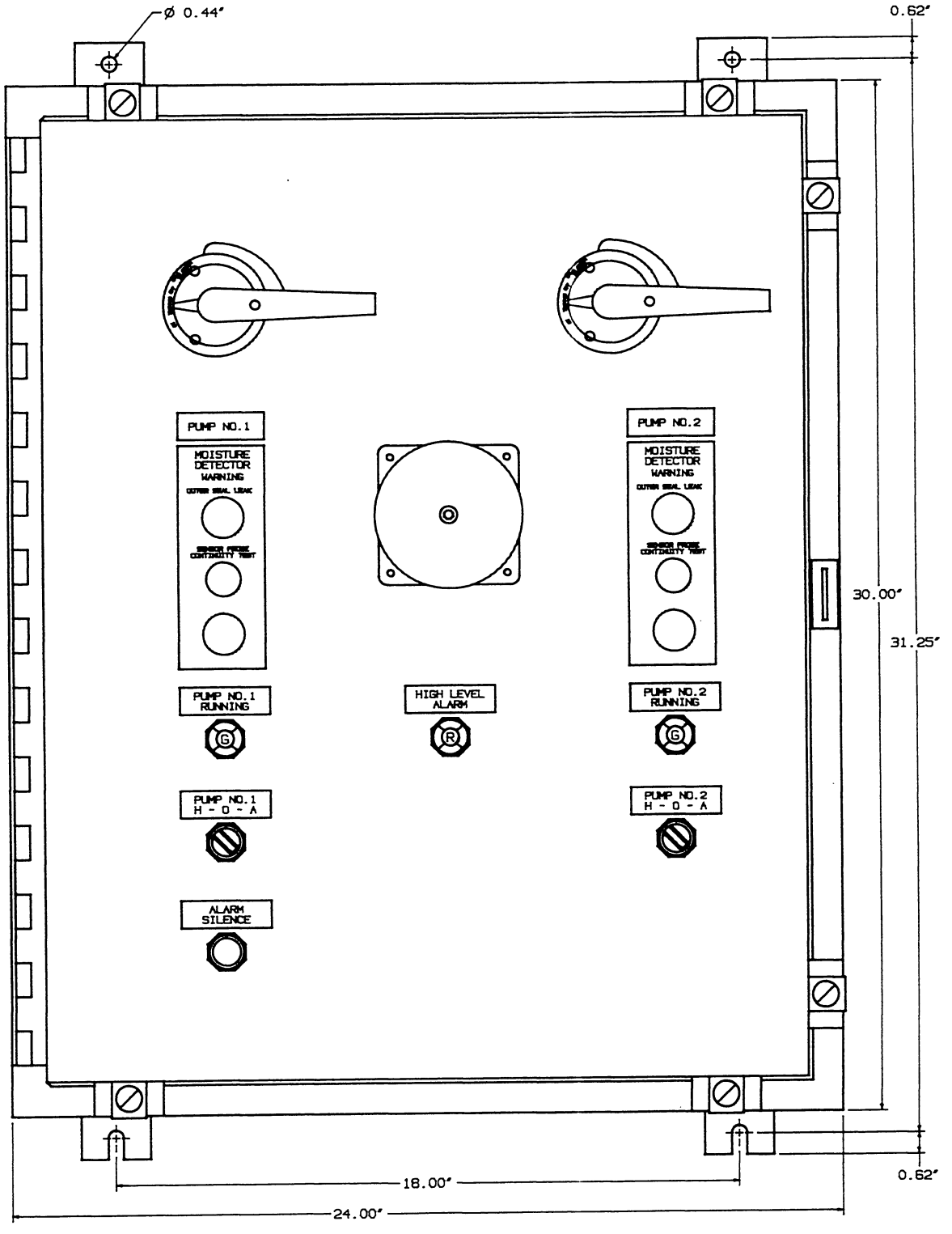
Subject to change unless certified for construction

DT 4853314

SEALTRODE ® FLOATLESS CONTROLLERS

Model DY60UFD-67 Duplex Combination Pump Down Controller with Solid State Circuitry, Fusible Disconnect Switches, Motor Starters, H-O-A Selector Switches, Automatic Alternator and Audible/Visible High Water Alarm with Silencing Push Button Switch, Moisture Detection Control Circuitry

Outline Dimensional Drawing NEMA 4 Enclosure



DWG No. 4853539

SEALTRODE ® FLOATLESS CONTROLLERS

Model DY60UFD-67 Duplex Combination Pump Down Controller with Solid State Circuitry, Fusible Disconnect Switches, Motor Starters, H-O-A Selector Switches, Automatic Alternator and Audible/Visible High Water Alarm with Silencing Push Button Switch, Moisture Detection Control Circuitry

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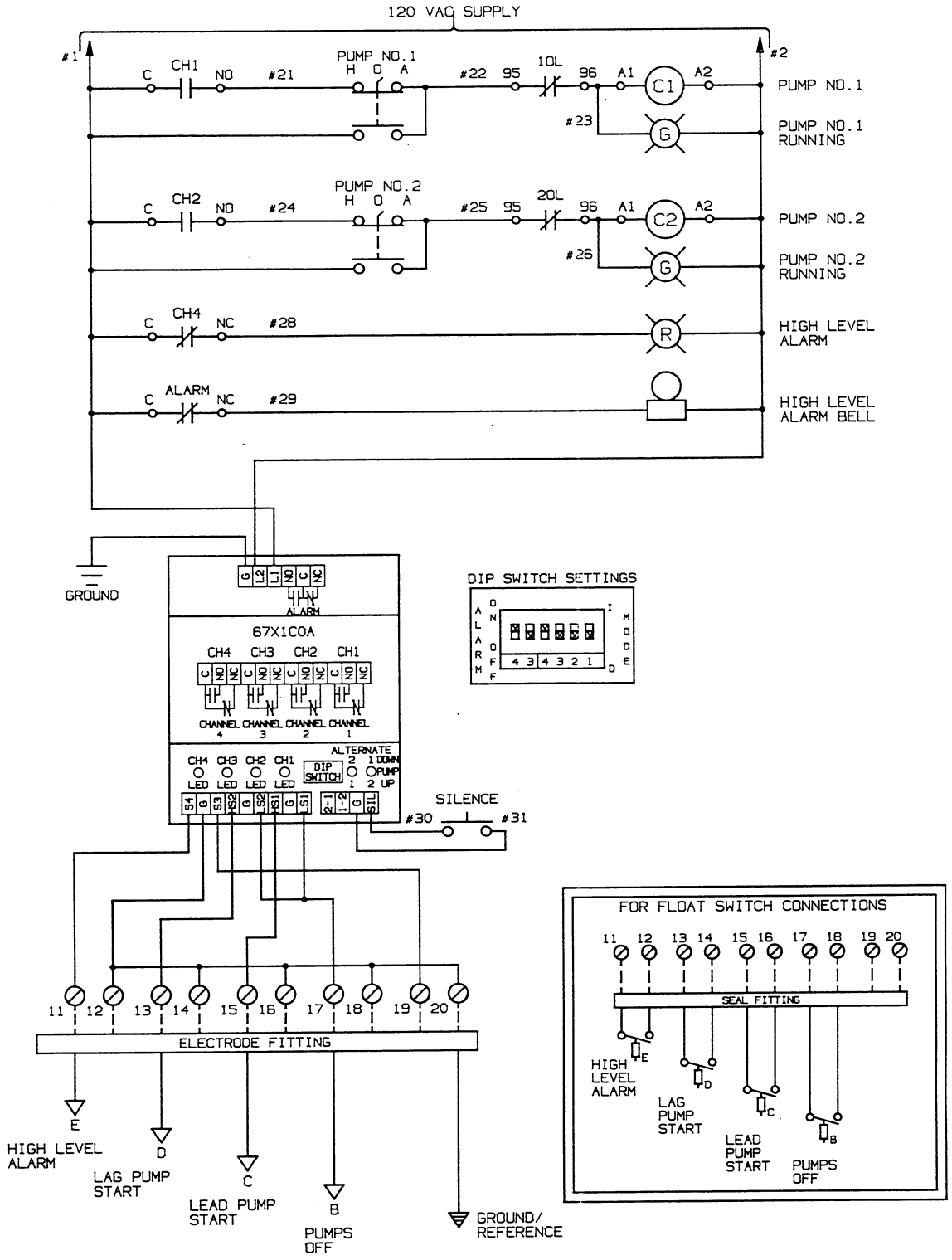
Typical Wiring Diagram Control Circuitry

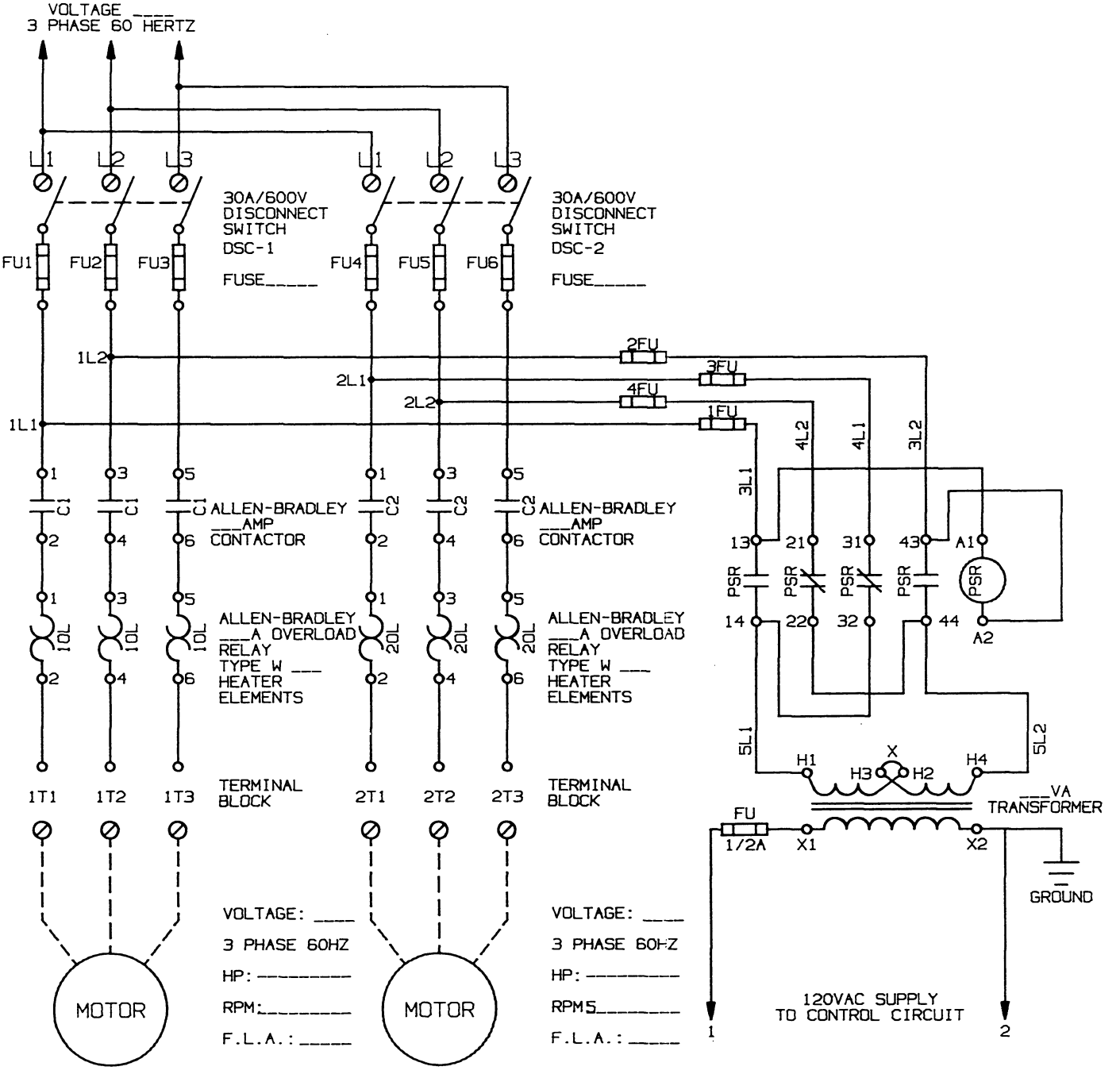


DWG No. 4853541

SEALTRODE ® FLOATLESS CONTROLLERS

Model DY60UFD-67 Duplex Combination Pump Down Controller with Solid State Circuitry, Fusible Disconnect Switches, Motor Starters, H-O-A Selector Switches, Automatic Alternator and Audible/Visible High Water Alarm with Silencing Push Button Switch, Moisture Detection Control Circuitry

Typical Wiring Diagram Power Supply



SEALTRODE ® FLOATLESS CONTROLLERS

Model DY60UFD-67 Duplex Combination Pump Down Controller with Solid State Circuitry, Fusible Disconnect Switches, Motor Starters, H-O-A Selector Switches, Automatic Alternator and Audible/Visible High Water Alarm with Silencing Push Button Switch, Moisture Detection Control Circuitry

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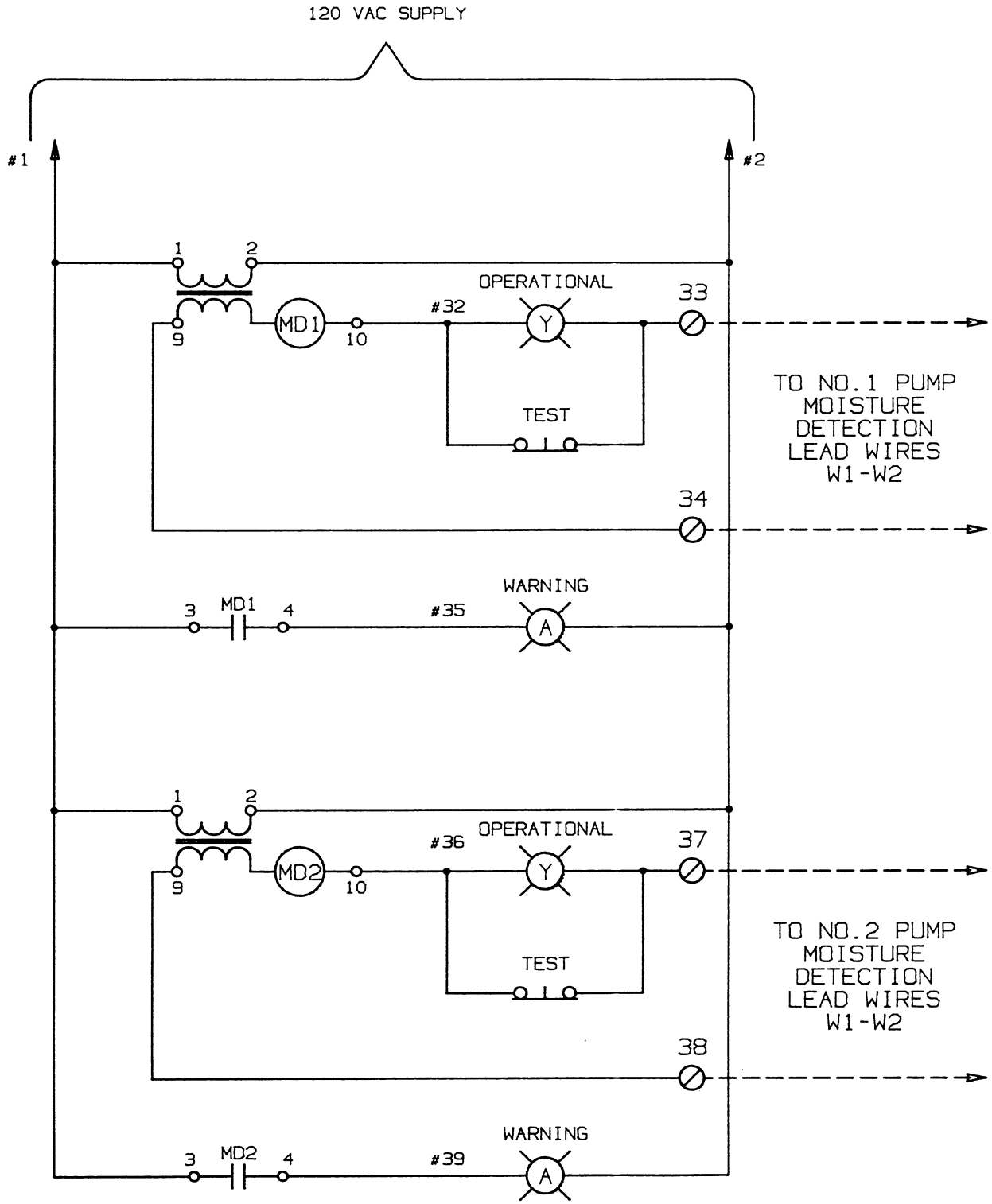
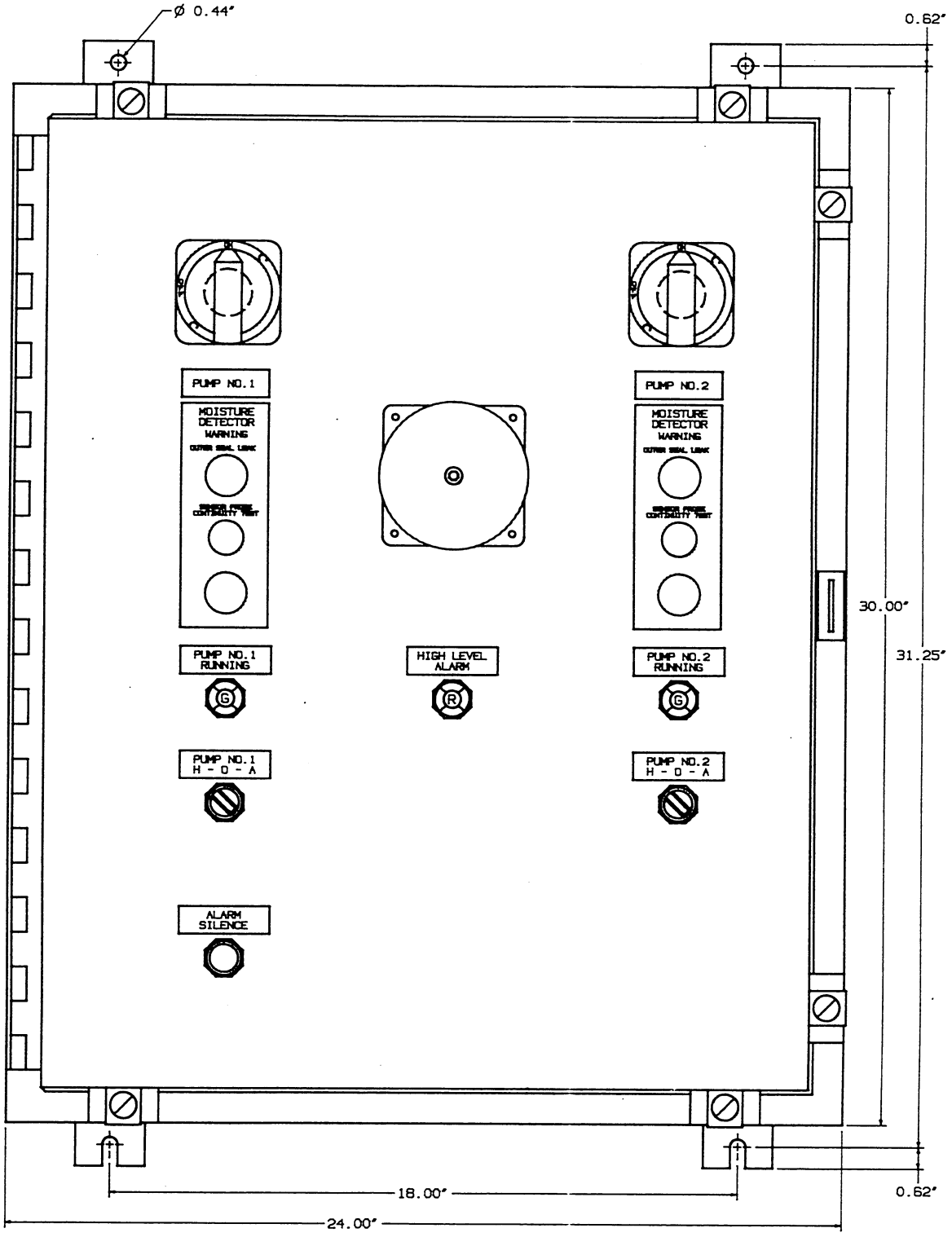
Typical Wiring Diagram Moisture Detection Control Circuitry



SEALTRODE ® FLOATLESS CONTROLLERS

Model DY60UCB-67 Duplex Combination Pump Down Controller with Solid State Circuitry, Thermal Magnetic Circuit Breakers, Motor Starters, H-O-A Selector Switches, Automatic Alternator and Audible/Visible High Water Alarm with Silencing Push Button Switch, Moisture Detection Control Circuitry

Outline Dimensional Drawing NEMA 4 Enclosure



DWG No. 4853540

SEALTRODE ® FLOATLESS CONTROLLERS

Model DY60UCB-67 Duplex Combination Pump Down Controller with Solid State Circuitry, Thermal Magnetic Circuit Breakers, Motor Starters, H-O-A Selector Switches, Automatic Alternator and Audible/Visible High Water Alarm with Silencing Push Button Switch, Moisture Detection Control Circuitry

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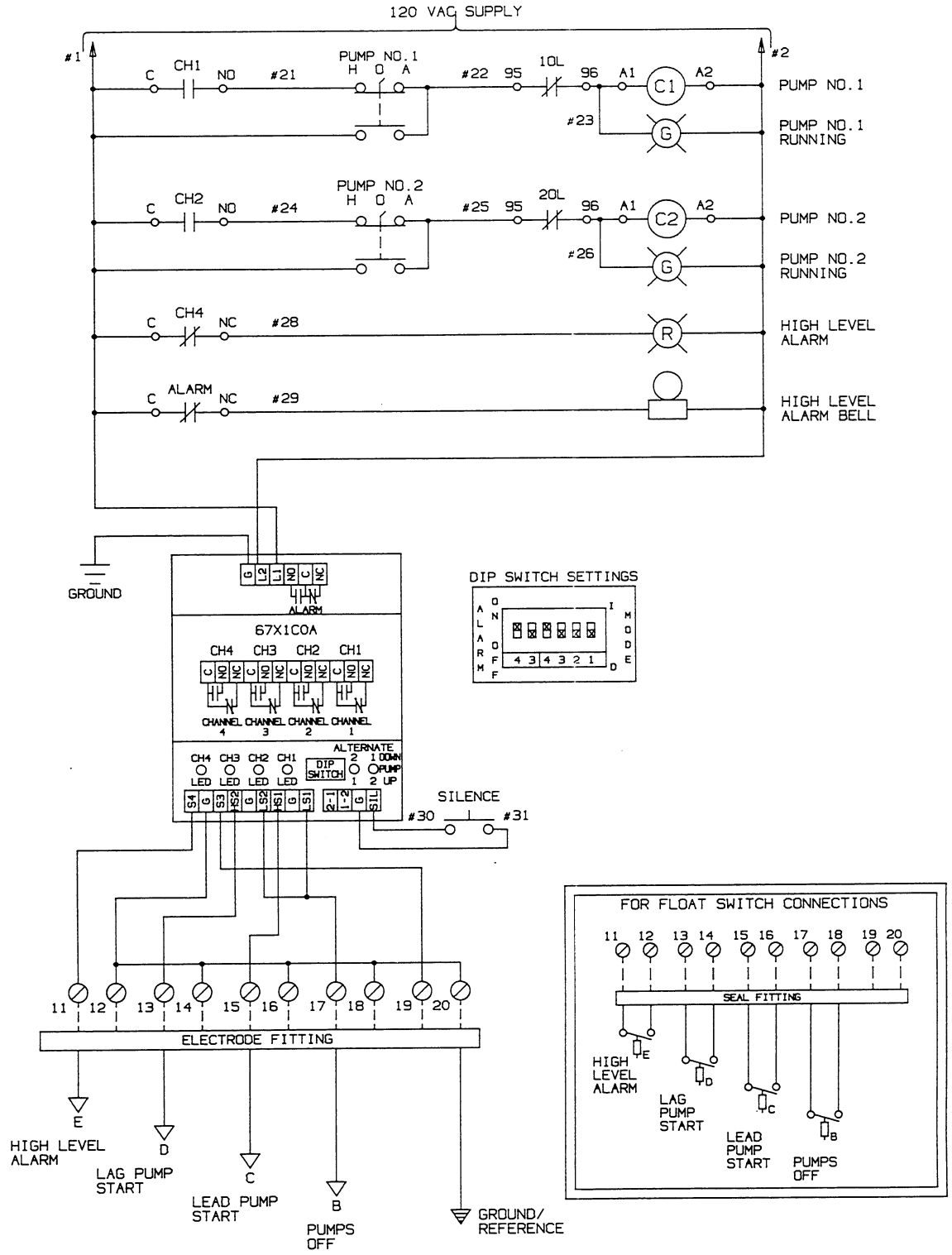
Typical Wiring Diagram Control Circuitry

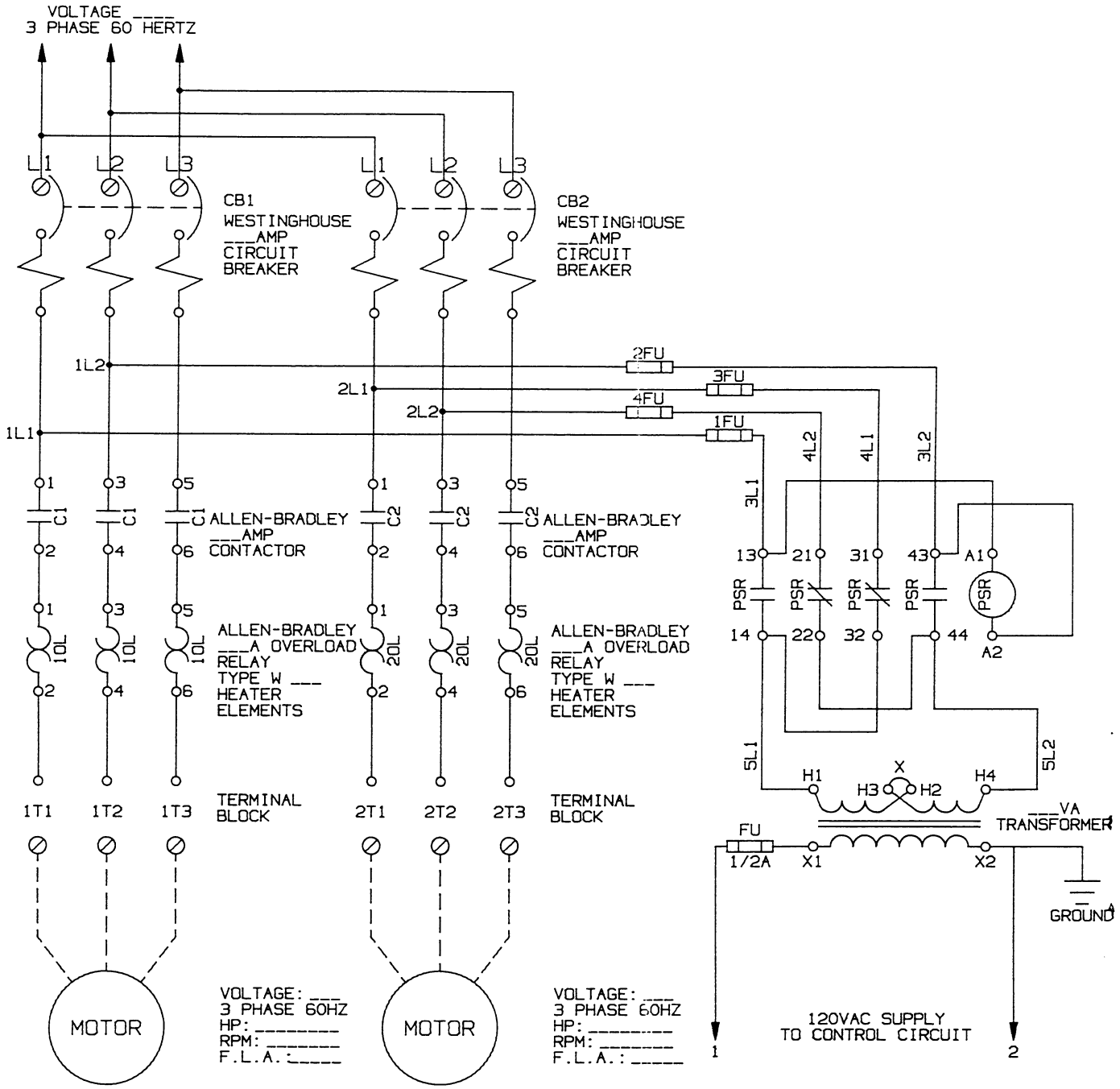


DWG No. 4853542

SEALTRODE ® FLOATLESS CONTROLLERS

Model DY60UCB-67 Duplex Combination Pump Down Controller with Solid State Circuitry, Thermal Magnetic Circuit Breakers, Motor Starters, H-O-A Selector Switches, Automatic Alternator and Audible/Visible High Water Alarm with Silencing Push Button Switch, Moisture Detection Control Circuitry

Typical Wiring Diagram Power Supply



SEALTRODE ® FLOATLESS CONTROLLERS

Model DY60UCB-67 Duplex Combination Pump Down Controller with Solid State Circuitry, Thermal Magnetic Circuit Breakers, Motor Starters, H-O-A Selector Switches, Automatic Alternator and Audible/Visible High Water Alarm with Silencing Push Button Switch, Moisture Detection Control Circuitry

Peerless Pump Company
Indianapolis, IN 46207-7025

Typical Wiring Diagram Moisture Detection Control Circuitry