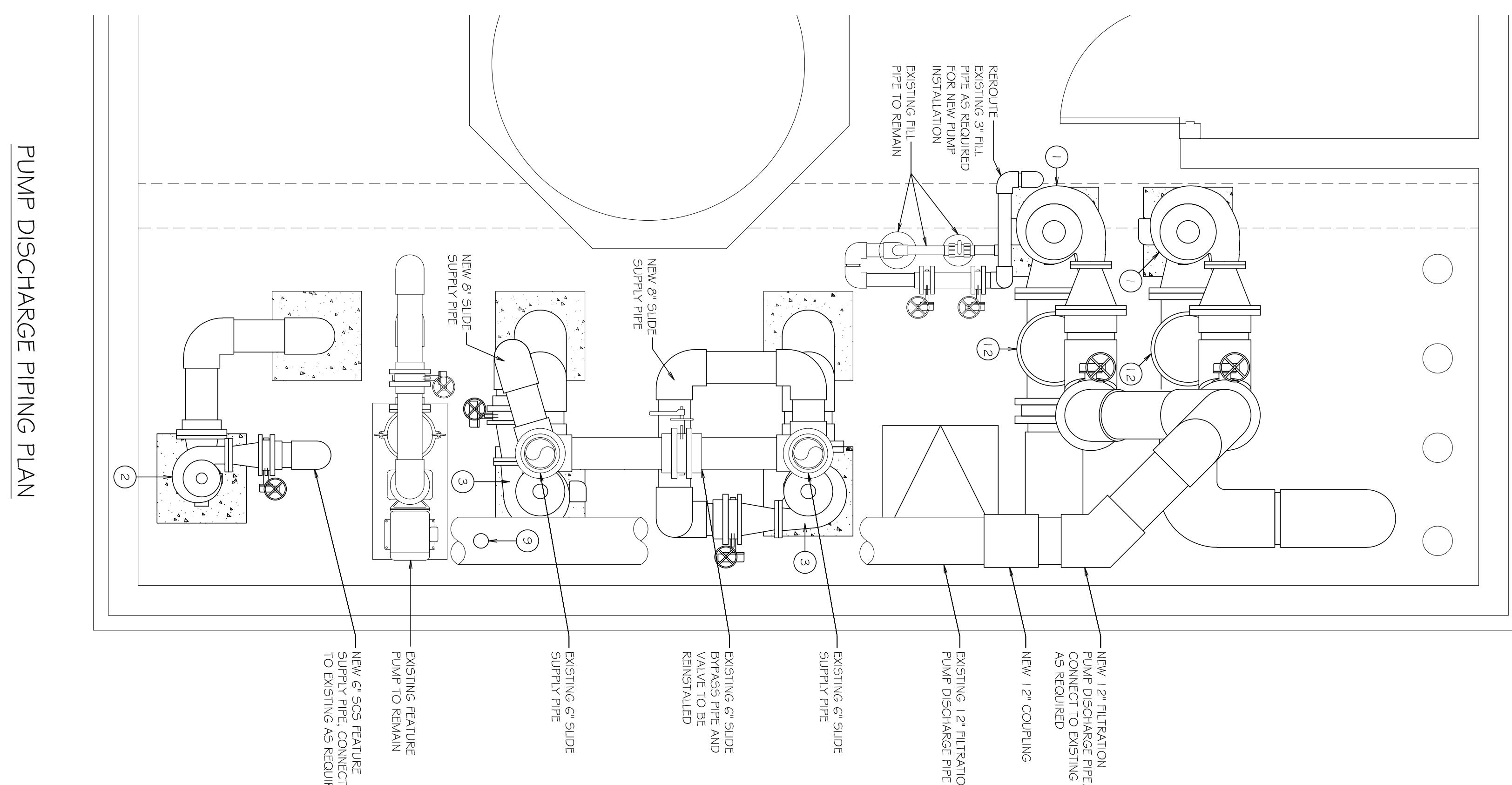
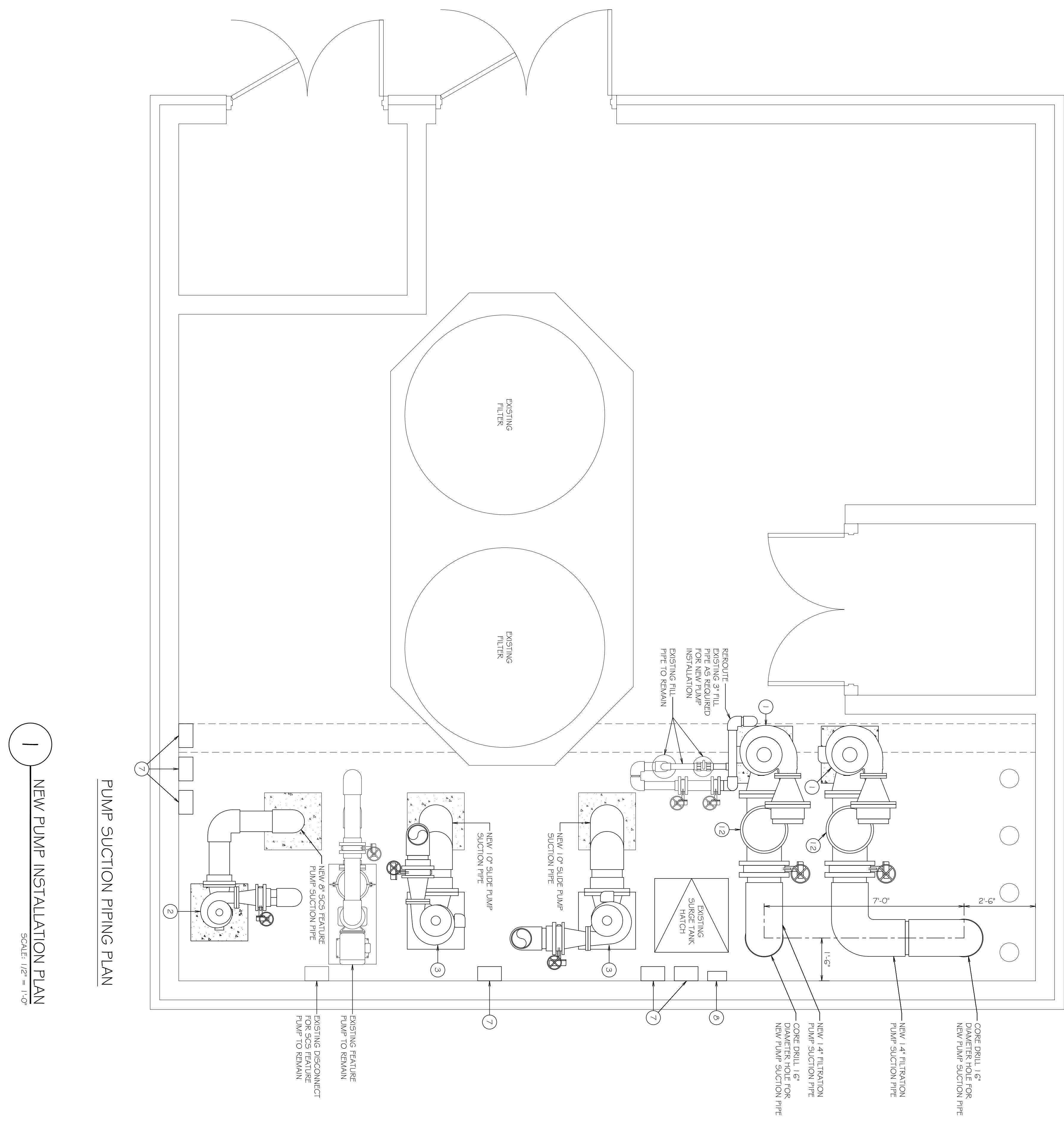


CENTENNIAL PARK AQUATIC CENTER PUMP REPLACEMENT

15600 WEST AVE.
ORLAND PARK, IL 60462

VILLAGE OF
ORLAND PARK
14700 RAVINIA AVE.
ORLAND PARK, IL 60462
PHONE: 708-403-6241

INNOVATIVE
AQUATIC DESIGN, LLC
2675 Pratum Avenue, Hoffman Estates, Illinois 60192
(224) 293-6460 FAX: (224) 293-6466



DESCRIPTION:
NEW PUMP LAYOUT

DATE	REVISION
0.1.29.18	JML

CENTENNIAL PARK AQUATIC CENTER PUMP REPLACEMENT

15600 WEST AVE.
ORLAND PARK, IL 60462

VILLAGE OF
ORLAND PARK
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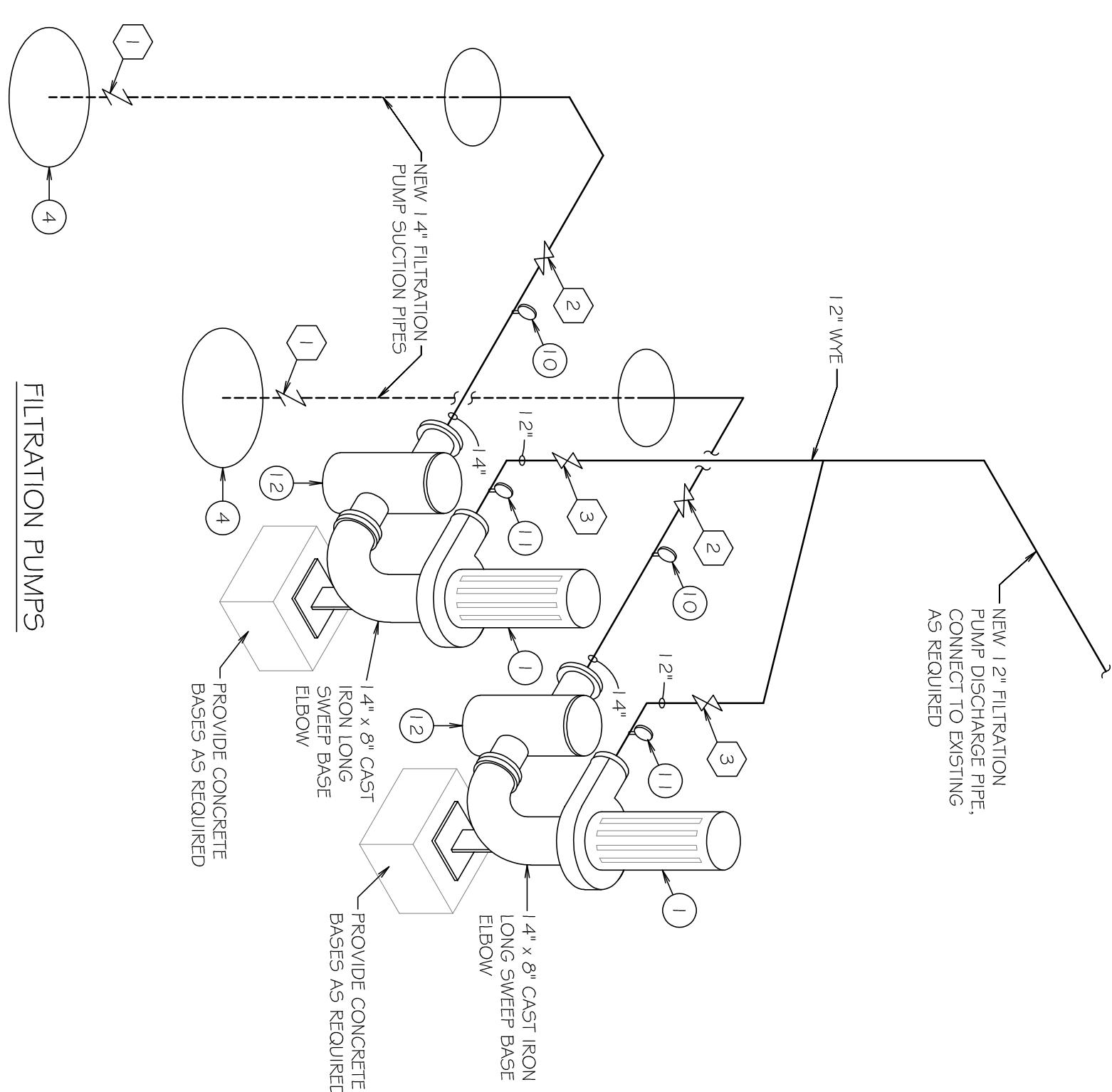
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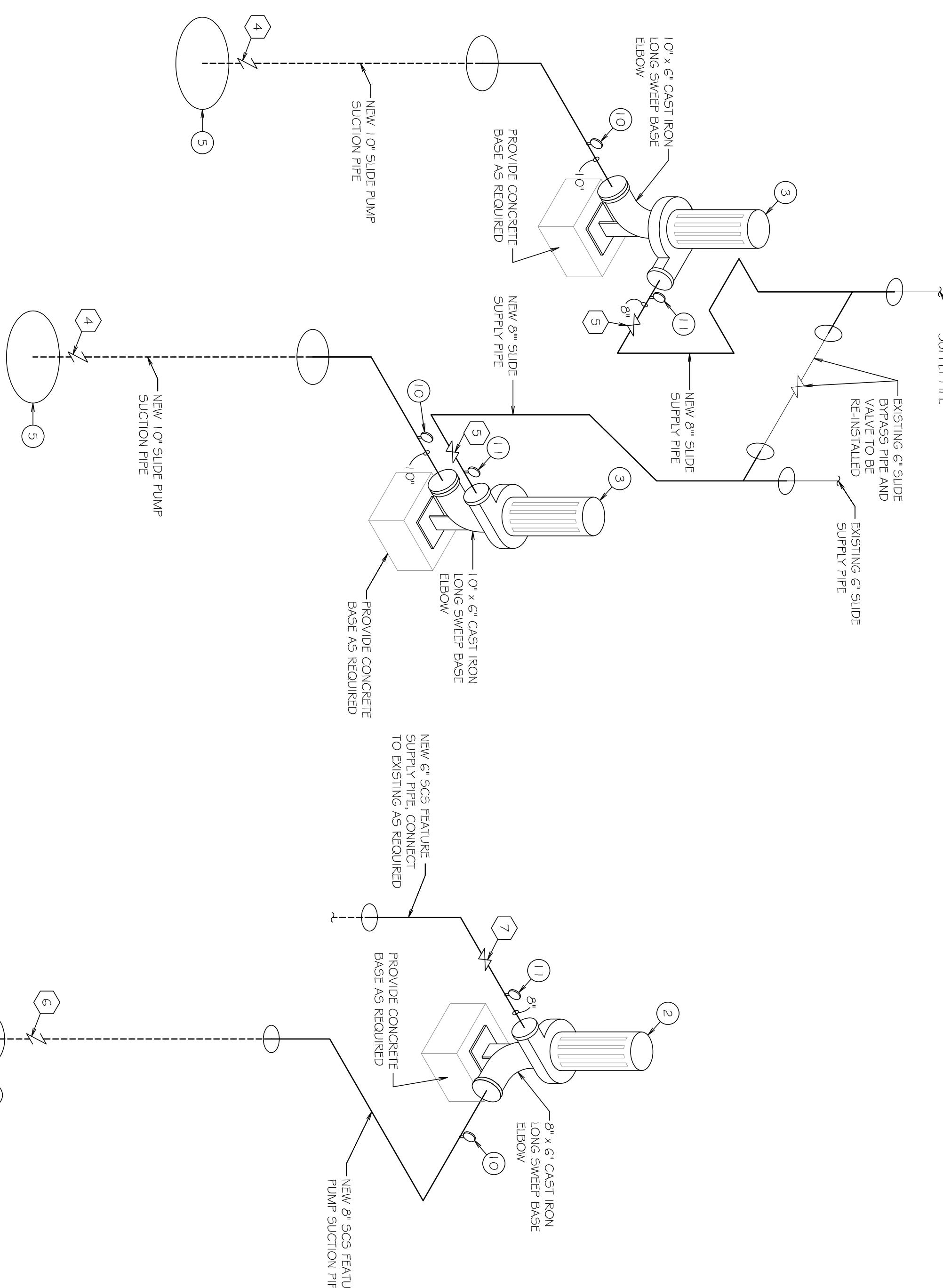
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FILTRATION PUMPS



SLUDGE PUMPS

FEATURE PUMPS

1 PIPING DIAGRAMS
NOT TO SCALE

FILTRATION PUMPS

VALVE LEGEND

KEY: O-
NO. VALVE DESCRIPTION

NO.	VALVE DESCRIPTION	TYPE	SIZE	QUANTITY
1.	FILTRATION PUMP SUCTION	CHECK	14"	2
2.	FILTRATION PUMP DISCHARGE	B.F. GEAR	14"	2
3.	FILTRATION PUMP SUCTION	CHECK	12"	2
4.	SLIDE PUMP DISCHARGE	B.F. GEAR	10"	2
5.	SLIDE PUMP DISCHARGE	CHECK	8"	1
6.	SSS FEATURE PUMP SUCTION	B.F. GEAR	8"	1
7.	SSS FEATURE PUMP DISCHARGE	CHECK	6"	1

T.U. = TRUE UNION

B.F. = BUTTERFLY

* NOTE: VARIABLE FREQUENCY DRIVE TO BE PROVIDED BY PUMP AND MOTOR SUPPLIER. FIELD VERIFY VOLTAGE BEFORE ORDERING

6. P.M. @ 35 FT. TDH, 7 1/2 H.P., 480 VOLT, 3-PHASE, 1750 RPM, F/P COATED CAST IRON VERTICAL MOUNTING STAND.

7. VARIABLE FREQUENCY DRIVE, 480 VOLT, 3-PHASE, 60 Hz, 10 FT TDH, 40 H.P., 480 VOLT, 3-PHASE, 1750 RPM, F/P COATED CAST IRON VERTICAL MOUNTING STAND.

8. SWITCHING POWER SUPPLY, 110 VOLT, 1-PHASE, 4.2 AMP OUTPUT CAPACITY AT 24 VOLTS

9. FLOW SENSOR, 12" FOR FILTRATION PUMP AND MOTOR VARIABLE FREQUENCY DRIVE CONTROL

10. VACUUM/PRESSURE GAUGE, 0-30" AND 0-60 PSIG, 1/2" DIAL LIQUID FILLED WITH STAINLESS STEEL TUBE AND SOCKET, SNUBBER NO. 872-2 AND GAUGE COCK NO. 865MFG.

11. PRESSURE GAUGE, 0-60 PSIG, 1/2" DIAL, LIQUID FILLED, WITH STAINLESS STEEL TUBE AND SOCKET, SNUBBER NO. 872-2 AND GAUGE COCK NO. 865MFG.

12. CUSTOM STRAINER, 14" WF EFFLUENT CONNECTION AT BASE AND TWO STAINLESS STEEL BASKETS.

ELECTRICAL REQUIREMENTS

1. ALL PLUMBING WORK, THROUGHOUT THE ENTIRE SWIMMING POOL PROJECT, SHALL COMPLY AND BE IN ACCORDANCE WITH THE ILLINOIS STATE PLUMBING CODE.

2. ALL PIPING TO BE SCHEDULE 80 PVC (ASTM D1785), UNLESS OTHERWISE SPECIFIED. ALL PIPE FITTINGS TO BE SCHEDULE 80 PVC (ASTM D2467), UNLESS OTHERWISE SPECIFIED. ALL TRUE UNION BALL VALVES TO BE SCHEDULE 80 PVC (ASMF F1970), UNLESS OTHERWISE SPECIFIED. PVC PIPING SHALL BE STAMPED WITH I.S.F. SEAL OF APPROVAL.

3. THESE DRAWINGS ARE INTENDED FOR SCHEMATIC USE ONLY. FINAL PIPE LOCATIONS TO BE FIELD VERIFIED BY TOOL CONTRACTOR. REFER TO DUGGING, ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND STRUCTURAL DRAWINGS AS REQUIRED.

4. PIPING SUPPORTS SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS' RECOMMENDATIONS AND THE ILLINOIS PLUMBING CODE.

5. (10) STRAIGHT PIPE DIAMETERS DOWNSTREAM FROM ANY VALVES, ELBOWS OR OTHER SOURCES OF TURBULENCE.

NEW EQUIPMENT LIST

THE EQUIPMENT MANUFACTURERS AND CATALOG NUMBERS LISTED BELOW, AND NOT SPECIFICALLY MENTIONED IN THE SPECIFICATIONS, ARE SHOWN TO PROVIDE A STANDARD EQUIPMENT BY OTHER MANUFACTURERS WILL BE APPROVED IF SAID EQUIPMENT IS SHOWN TO BE EQUAL TO THAT SPECIFIED.

ITEM	DESCRIPTION	MANUFACTURER	CATALOG NO.	QTY.
1	FILTRATION PUMP AND MOTOR, FLOORED SUCTION, 1.835 G.P.M. @ 70 FT TDH, 40 H.P., 480 VOLT, 3-PHASE, 1750 RPM, F/P COATED ON ALL INTRIOR CAST IRON PARTS, FROX COATING ON ALL EXTERIOR CAST IRON PARTS, FROX COATED CAST IRON VERTICAL MOUNTING STAND.	PACO	407071C	1
2	SSC PLAY FEATURE PUMP AND MOTOR, FLOORED SUCTION, 575 G.P.M. @ 40 FT TDH, 15 H.P., 480 VOLT, 3-PHASE, 1750 RPM, F/P COATED ON ALL INTRIOR CAST IRON PARTS, FROX COATED CAST IRON VERTICAL MOUNTING STAND.	PACO	509571C	2
3	FILTRATION PUMP AND MOTOR, FLOORED SUCTION, 1.200 G.P.M. @ 40 FT TDH, 40 H.P., 480 VOLT, 3-PHASE, 1750 RPM, F/P COATED ON ALL INTRIOR CAST IRON PARTS, FROX COATED CAST IRON VERTICAL MOUNTING STAND.	NEPTUNE BENSON	AVP14PVKUT	2
4	PVC ANTI-VORTEX PLATE, 14" CONNECTION, MAX 36" DIAMETER.	NEPTUNE BENSON	AC5550 SERIES	6
5	PVC ANTI-VORTEX PLATE, 12" CONNECTION.	NEPTUNE BENSON	AVP12PVKUT	1
6	PVC ANTI-VORTEX PLATE, 8" CONNECTION.	NEPTUNE BENSON	AVP10PVKUT	1
7	VARIABLE FREQUENCY DRIVE, 480 VOLT, 3-PHASE, 60 Hz, 10 FT TDH, 40 H.P., 480 VOLT, 3-PHASE, 1750 RPM, F/P COATED CAST IRON VERTICAL MOUNTING STAND.	NEPTUNE BENSON	AVP14PVKUT	2
8	SWITCHING POWER SUPPLY, 110 VOLT, 1-PHASE, 4.2 AMP OUTPUT CAPACITY AT 24 VOLTS	SIGNET	7300-1024	1
9	FLOW SENSOR, 12" FOR FILTRATION PUMP AND MOTOR VARIABLE FREQUENCY DRIVE CONTROL	SIGNET	3-2251-LP-42	1
10	VACUUM/PRESSURE GAUGE, 0-30" AND 0-60 PSIG, 1/2" DIAL LIQUID FILLED WITH STAINLESS STEEL TUBE AND SOCKET, SNUBBER NO. 872-2 AND GAUGE COCK NO. 865MFG.	TRUICE	700LF55	5
11	PRESSURE GAUGE, 0-60 PSIG, 1/2" DIAL, LIQUID FILLED, WITH STAINLESS STEEL TUBE AND SOCKET, SNUBBER NO. 872-2 AND GAUGE COCK NO. 865MFG.	TRUICE	700LF55	5
12	CUSTOM STRAINER, 14" WF EFFLUENT CONNECTION AT BASE AND TWO STAINLESS STEEL BASKETS.	NEPTUNE BENSON	150NBFG14R1	2

DESCRIPTION: EQUIPMENT LIST: PIPING REQUIREMENTS, ELECTRICAL REQUIREMENTS AND PLUMBING NOTES

DATE: 0.22.18
DRAWN BY: JML
JOB NO. A17339