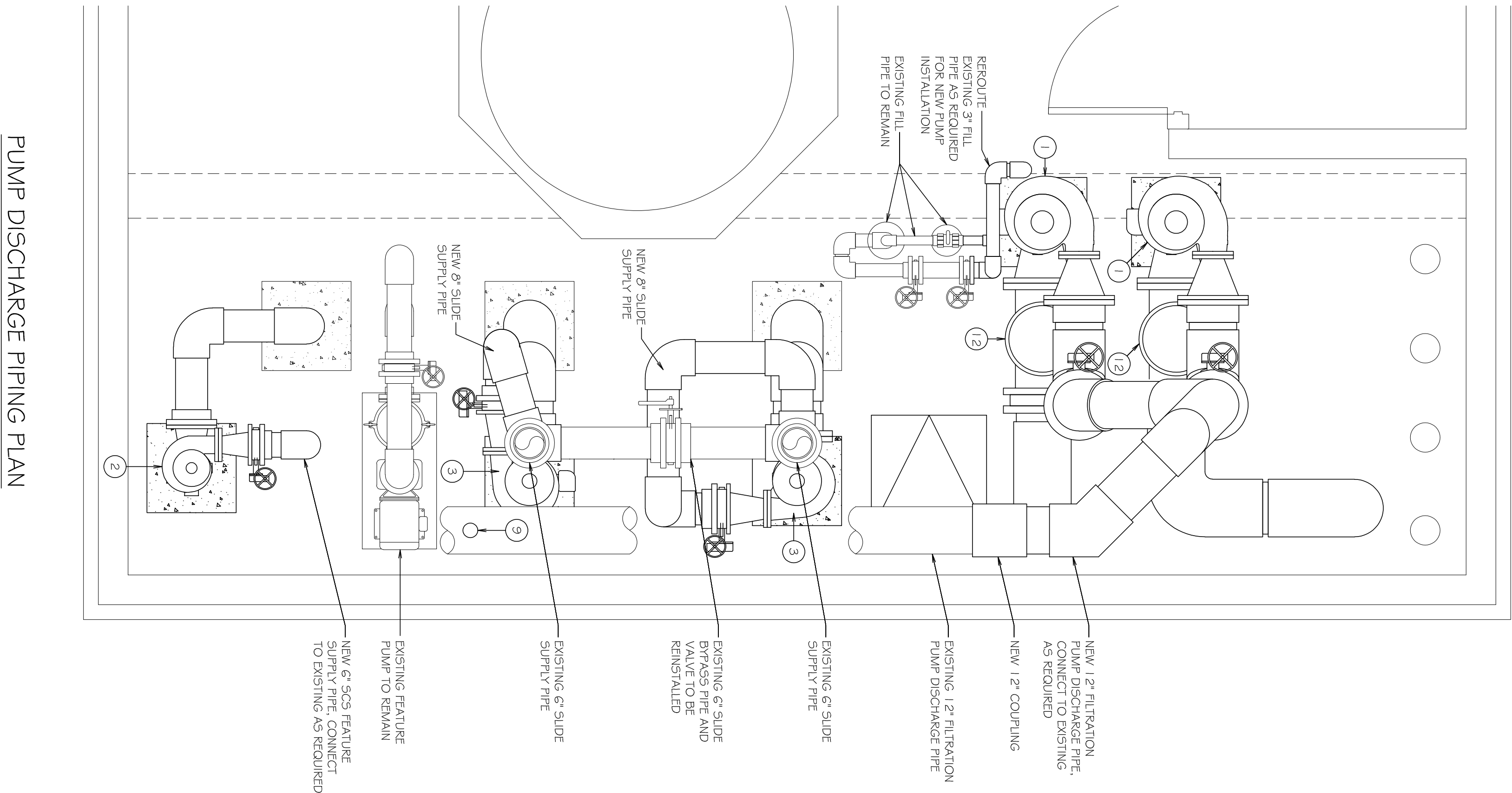
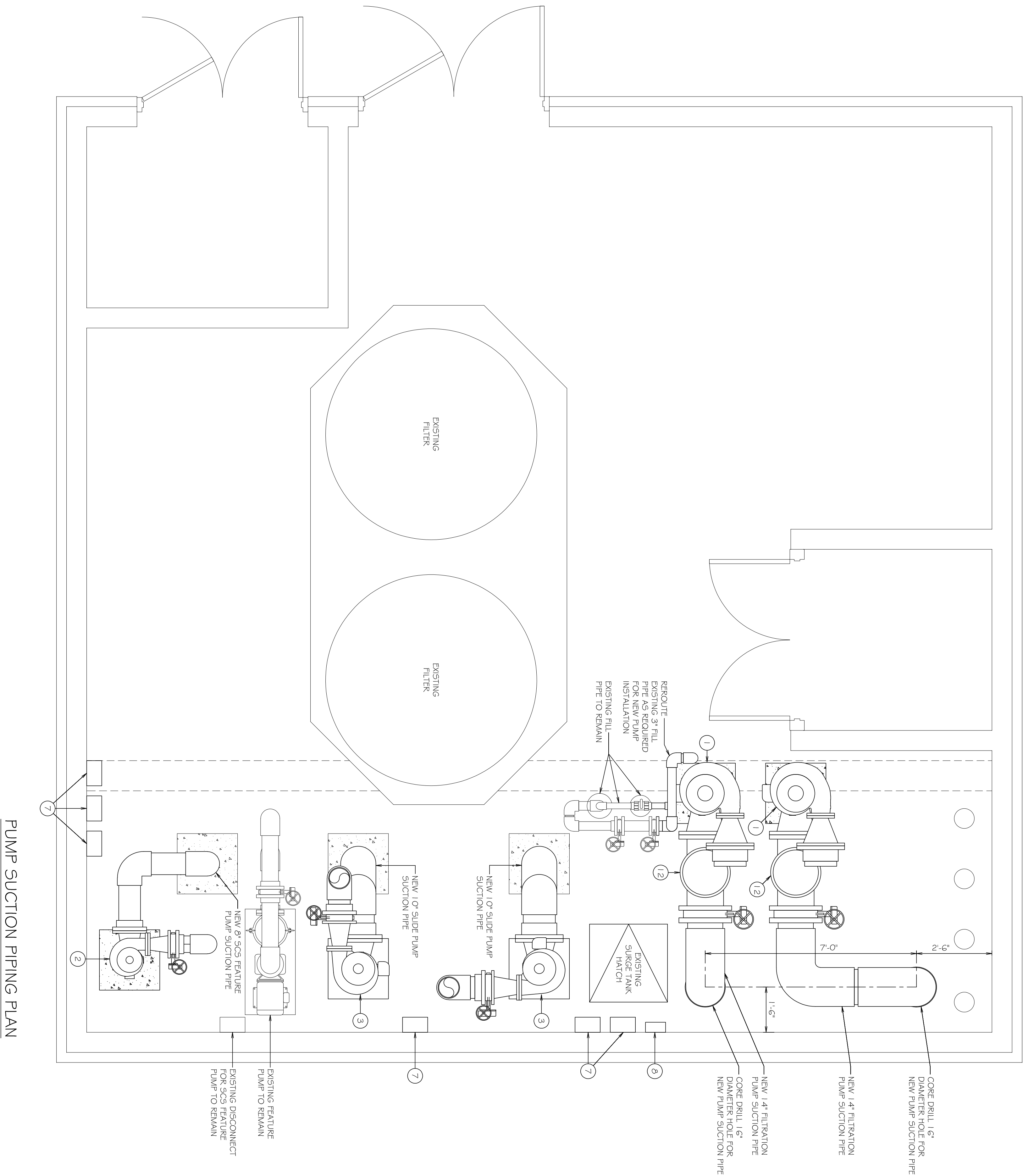


| <div><div>SP-1</div><div>DATE: 01.29.18 DRAWN BY: JML JOB NO. A1739</div></div> | | <div><div>DESCRIPTION: EXISTING FILTER ROOM DEMOLITION PLAN</div><table><thead><tr><th>#</th><th>DATE</th><th>REVISION</th></tr></thead><tbody><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr></tbody></table></div> | | # | DATE | REVISION | | | | | | | | | | | | | | | | | | | | | | | | | | | | <div><div>CENTENNIAL PARK AQUATIC CENTER PUMP REPLACEMENT</div><div>15600 WEST AVE. ORLAND PARK, IL 60462</div></div> | | <div><div>VILLAGE OF ORLAND PARK</div><div>14700 RAVINIA AVE. ORLAND PARK, IL 60462 PHONE: 708-403-6241</div></div> | | <div><div>INNOVATIVE AQUATIC DESIGN, LLC</div><div>2875 Pratum Avenue, Hoffman Estates, Illinois 60192 (224) 293-6460 FAX: (224) 293-6466</div></div> | |
|---|------|--|--|---|------|----------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|--|---|--|---|--|
| # | DATE | REVISION | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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1 NEW PUMP INSTALLATION PLAN
SCALE: 1/2" = 1'-0"

PUMP DISCHARGE PIPING PLAN

PUMP SUCTION PIPING PLAN

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
2875 Pratum Avenue, Hoffman Estates, Illinois 60182
(224) 293-6460 FAX: (224) 293-6466

DATE: 01.29.18
DRAWN BY: JML
JOB NO. A17399

SP-2

| Δ | DATE | REVISION |
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DESCRIPTION:
NEW PUMP LAYOUT

| ELECTRICAL REQUIREMENTS | | | | |
|--------------------------------------|---------|-------|-------------|----------|
| ITEM OF EQUIPMENT | VOLTAGE | PHASE | H.P. / AMPS | QUANTITY |
| FILTRATION PUMP AND MOTOR | 480 | 3 | 40 H.P. | TWO |
| SCS PLAY FEATURE PUMP AND MOTOR | 480 | 3 | 7 1/2 H.P. | ONE |
| EXISTING GERSER / JET PUMP AND MOTOR | 480 | 3 | 7 1/2 H.P. | ONE |
| FLUME SLIDE PUMP AND MOTOR | 480 | 3 | 15 H.P. | TWO |
| FLOW METER POWER SUPPLY | 110 | 1 | 2.5 AMPS | ONE |

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

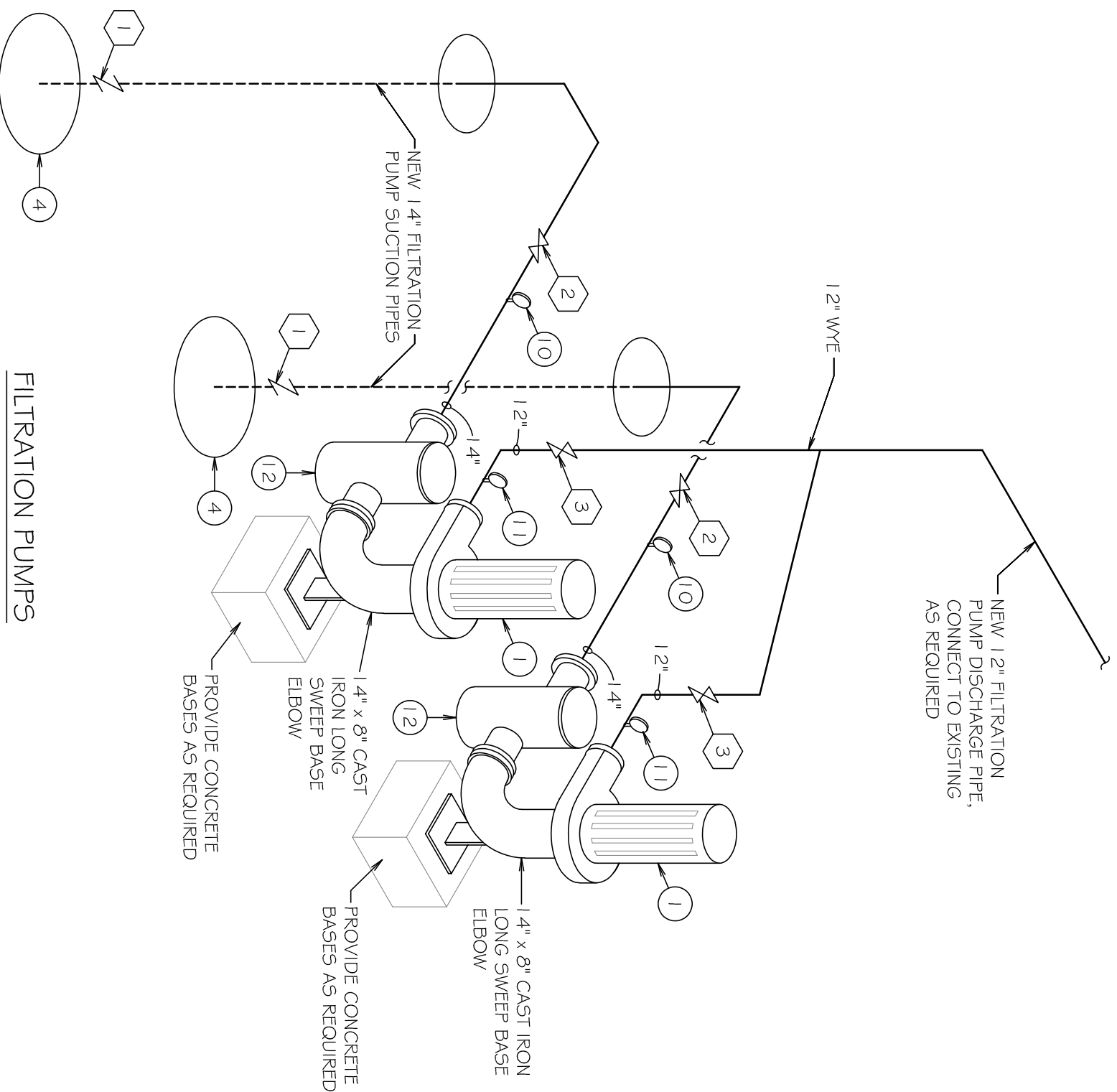
VALVE LEGEND

KEY

| NO. | VALVE DESCRIPTION | TYPE | SIZE | QUANTITY |
|-----|-----------------------------------|-----------|--------|----------|
| 1. | FILTRATION PUMP SUCTION | CHECK | 1 1/2" | 2 |
| 2. | FILTRATION PUMP STRAINER INFLUENT | B.F. GEAR | 1 1/2" | 2 |
| 3. | FILTRATION PUMP DISCHARGE | B.F. GEAR | 12" | 2 |
| 4. | SLIDE PUMP SUCTION | CHECK | 10" | 2 |
| 5. | SLIDE PUMP DISCHARGE | B.F. GEAR | 8" | 2 |
| 6. | SCS FEATURE PUMP SUCTION | CHECK | 8" | 1 |
| 7. | SCS FEATURE PUMP DISCHARGE | B.F. GEAR | 6" | 1 |

T.U. = TRUE UNION

B.F. = BUTTERFLY



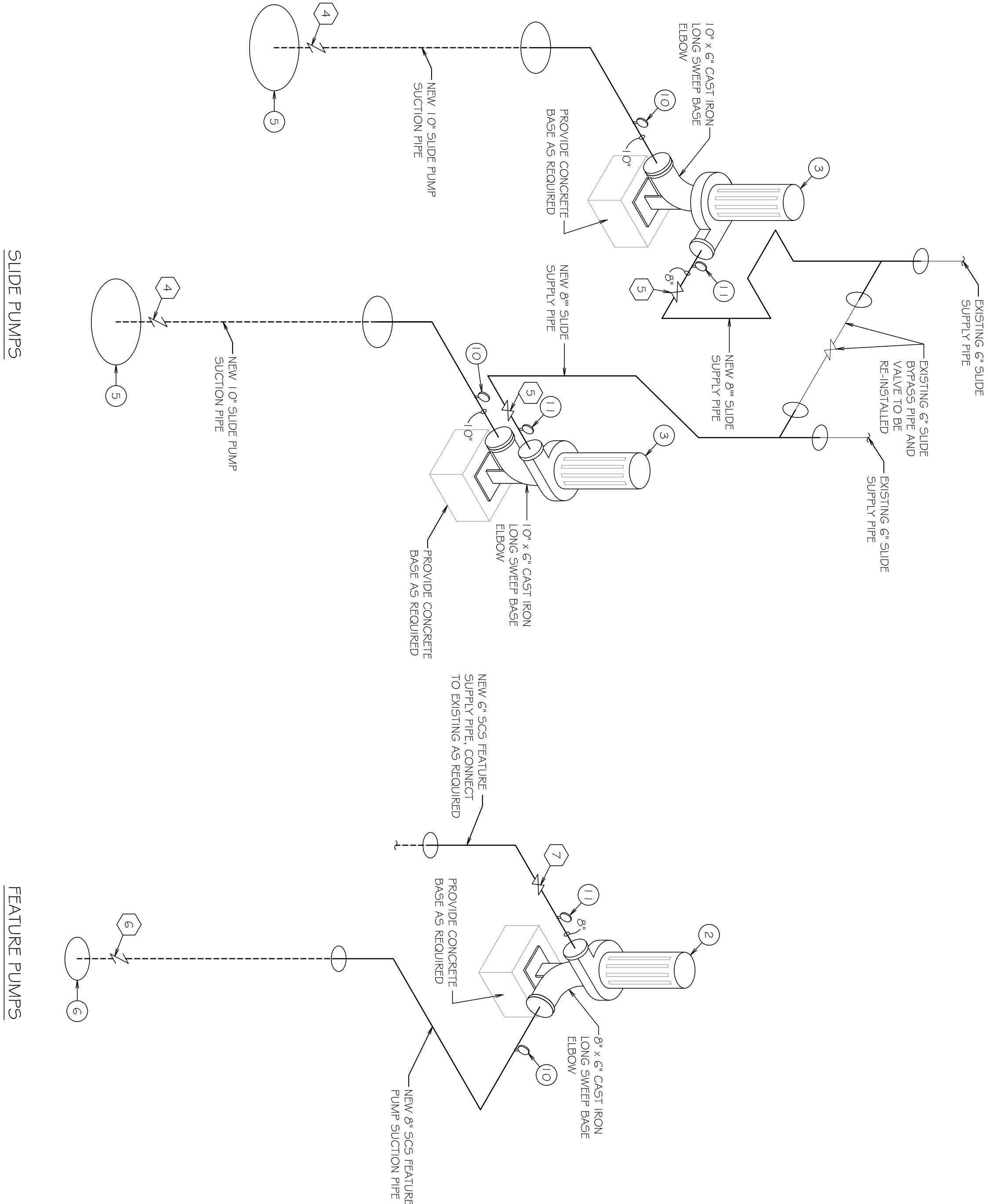
PLUMBING NOTES:

- ALL PLUMBING WORK, THROUGHOUT THE ENTIRE SWIMMING POOL, PROTECT, SHALL COMPLY AND BE IN ACCORDANCE WITH THE ILLINOIS STATE PLUMBING CODE.
- ALL PIPING TO BE SCHEDULE 80 PVC PIPE (ASTM D 1725), 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 (ASTM F 1970), UNLESS OTHERWISE SPECIFIED. PVC PIPING SHALL BE STAMPED WITH N.S.F. SEAL OF APPROVAL.
- THESE DRAWINGS ARE INTENDED FOR SKELETAL USE ONLY. FINAL PIPE LOCATIONS TO BE ELECTRICAL, PLUMBING AND STRUCTURAL DRAWINGS AS REQUIRED.
- RECOMMENDATIONS AND THE ILLINOIS PLUMBING CODE.
- ALL FLOWMETERS SHALL BE LOCATED FIVE (5) STRAIGHT PIPE DIAMETERS UPSTREAM AND TEN (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, FLOODED SUCTION, 1,835 G.P.M. @ 70 FT. TDH, 40 H.P., 480 VOLT, 3-PHASE, 1,750 RPM, W/ EPOXY COATING ON ALL INTERIOR CAST IRON PARTS, PROVIDE EPOXY COATED CAST IRON VERTICAL MOUNTING STAND. | PACO | 601231C | 2 |
| 2 | SCS PLAY FEATURE PUMP AND MOTOR, FLOODED SUCTION, 575 G.P.M. @ 35 FT. TDH, 7 1/2 H.P., 480 VOLT, 3-PHASE, 1,750 RPM, W/ EPOXY COATING ON ALL INTERIOR CAST IRON PARTS, PROVIDE EPOXY COATED CAST IRON VERTICAL MOUNTING STAND. | PACO | 407071C | 1 |
| 3 | FLUME SLIDE PUMP AND MOTOR, FLOODED SUCTION, 1,200 G.P.M. @ 40 FT. TDH, 15 H.P., 480 VOLT, 3-PHASE, 1,750 RPM, W/ EPOXY COATING ON ALL INTERIOR CAST IRON PARTS, PROVIDE EPOXY COATED CAST IRON VERTICAL MOUNTING STAND. | PACO | 509571C | 2 |
| 4 | PVC ANTI-VORTEX PLATE, 14" CONNECTION, MAX. 36" DIAMETER. | NEPTUNE BENSON | AVPLATE14PVCNT | 2 |
| 5 | PVC ANTI-VORTEX PLATE, 12" CONNECTION. | NEPTUNE BENSON | AVPLATE12PVCNT | 2 |
| 6 | PVC ANTI-VORTEX PLATE, 8" CONNECTION. | NEPTUNE BENSON | AVPLATE08PVCNT | 1 |
| 7 | VARIABLE FREQUENCY DRIVE, 480 VOLT, 3-PHASE, 60 Hz, W/ DIGITAL READOUT, NEMA 1 ENCLOSURE, INTEGRAL DISCONNECT, LINE REACTOR AND MANUAL BYPASS. | ABB | ACS550 SERIES | 6 |
| 8 | SWITCHING POWER SUPPLY, 110 VOLT, 1-PHASE, 4.2 AMP OUTPUT CAPACITY AT 24 VOLTS. | SIGMET | 7300-1024 | 1 |
| 9 | FLOW SENSOR, 12" FOR FILTRATION PUMP AND MOTOR. | SIGMET | 3-2551-F1-42 | 1 |
| 10 | VACUUM / PRESSURE GAUGE, 0" - 30" AND 0" - 60 PSIG, 2 1/2" DIA., LIQUID FILLED, WITH STAINLESS STEEL TUBE AND SOCKET, SNUBBER NO. 87/2-2 AND GAUGE COOK NO. 063816G. | TRERICE | 700UF95 | 5 |
| 11 | PRESSURE GAUGE, 0" - 60 PSIG, 2 1/2" DIA., LIQUID FILLED, WITH STAINLESS STEEL TUBE AND SOCKET, SNUBBER NO. 87/2-2 AND GAUGE COOK NO. 063816G. | TRERICE | 700UF95 | 5 |
| 12 | CUSTOM STRAINER, FIBERGLASS, 14", W/ EFFLUENT CONNECTION AT BASE AND TWO STAINLESS STEEL BASKETS. | NEPTUNE BENSON | 1500NBG14RI | 2 |



1 PIPING DIAGRAMS

NOT TO SCALE

SLIDE PUMPS

FEATURE PUMPS

CENTENNIAL PARK AQUATIC CENTER
PUMP REPLACEMENT
15600 WEST AVE.
ORLAND PARK, IL 60462

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ORLAND PARK, IL 60462
PHONE: 708-403-6241

INNOVATIVE
AQUATIC DESIGN, LLC
2875 Pratum Avenue, Hoffman Estates, Illinois 60182
(224) 293-6460 FAX: (224) 293-6466

| DATE | REVISION |
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DESCRIPTION:
EQUIPMENT LIST, PIPING
DIAGRAMS, ELECTRICAL
REQUIREMENTS AND
PLUMBING NOTES

DATE: 01.29.18
DRAWN BY: JML
JOB NO. A1739

SP-3