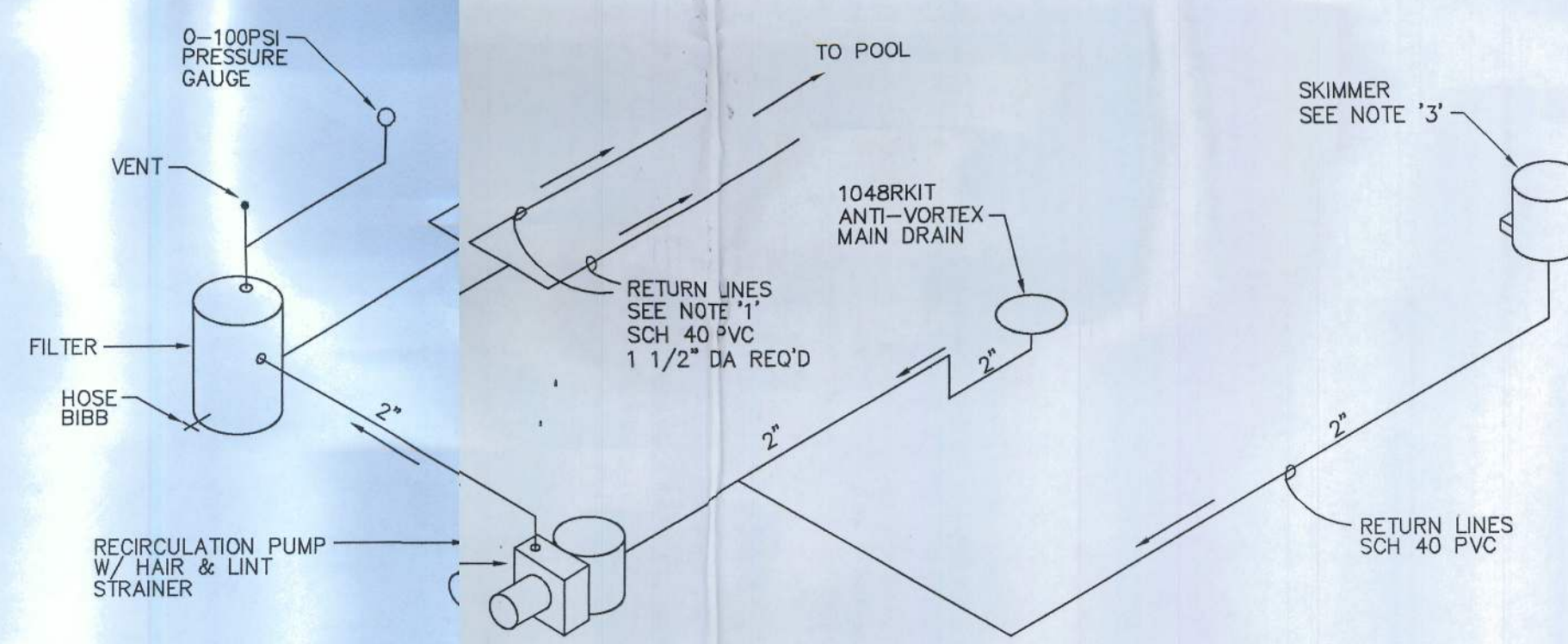


- 1) -Pool installation shall be by a qualified and licensed (approved by local building department and San Juan pools) pool contractor. The installation shall conform to all state and local building codes, as well as tenants of any association with Jurisdiction.
- 2) -Water supply and disposal shall be so arranged that there is no cross connection with domestic service.
- 3) -Main drain to have anti-vortex type cover or a grate with a minimum open area of 65 sq. in. or as to local codes, securely fastened in place.
- 4) -Pool turnover shall be 12 hours maximum with cartridge filter and properly grounded approved pump (min: 1/2 hp per 50 GPM at 55 TDH.). Pool pump to be above ground with weather protective housing.
- 5) -All electric shall conform to N.E.C. No overhead wires shall pass within 10 feet of pool.
- 6) -Concrete shall be 2500 psi at 28 days. Pool bottom to be placed in 4" Min. of sand. Conc. Slab to have 6x6, #10/10wmm. Fibermesh conc. may be used in lieu of 6x6 #10/10wmm as allowed by code.
- 7) -Hydrostatic pressures: design assumes pool is full at all times, with any required hold downs and reinforcing by others.
- 8) -Hydrostatic relief valve not credited for more than 2 feet of the difference of head between pool bottom and floor criteria level, use where code requires.
- 9) -Pool shall bear on undisturbed soil, free of peat, muck or other deleterious material of any significant amount.
- 10) -Backfill shall have bearing value greater than 600 PSF with Vertical angle of Repose. Back-fill material must not contain rocks that could damage pool walls. Back-fill shall be installed and compacted in lifts to match water level in pool and not deform pool.
- 11) -Steps or ladders shall be provided at each end of pool per code.
- 12) -Pool ladders shall be corrosion resistant with non-slip treads. Hand rails and ladders shall have No. 8 solid copper grounds and Solidly imbedded anchors.
- 13) -Steps, treads and risers shall conform to local codes when different than that shown.
- 14) -Therapy seats, where installed, shall be recessed in to the sides of such pool not more than 20 inches below water level, and in such a manner as to clearly distinguish such underwater obstructions from pool areas in to which persons may dive.
- 15) -Swimming pool skimmer(s) shall have deck openings.
- 16) -Electrical hook-up of pool equipment, rails, boxes, etc and grounding of deck steel shall be in accordance with the National Electrical Code and all applicable state and local building codes by a licensed electrical contractor.
- 17) -Install 12 volt light. When allowed by local code. Higher voltage shall be GFI protected per NEC. At Installers option Fiberoptic Lighting may be used.
- 18) -If the slope from shallow end to deep end is more than 1:7 a safety rope shall be provided when required.
- 19) -Supports and steps shall be properly reinforced and of sufficient structural strength to safely carry all anticipated loads.
- 20) -All pipe to be PVC schedule40 suitable for potable water, or to local code.
- 21) -Direct suction pipes from the pool shall have Secondary Reliefs.

Qty	Item	Manufacturer
	Inlet-Return 1 1/2" white cyclac Model SP-1032	Hayward MFG. Co. or Equal.
	Inlet-Directional Flow white cyclac "Hydro-stream" with 1/2" hole, Model SP-1419-C	Hayward MFG. Co. or Equal.
	Main Drain Anti-Vortex Model SP-1048-AV or 1035-AV	Hayward MFG. Co. or Equal.
	Hydrostatic Relief Valve Model SP-1056	Hayward MFG. Co. or Equal.
	Skimmer Model SP-1076	Hayward MFG. Co. or Equal.
	Niche Light Assembly PVC SP607 with 1" Conduit connection	Hayward MFG. Co. or Equal.
	Light Assembly 100 watt, 12 volt with Power Cord	American Products Co. or Equal.

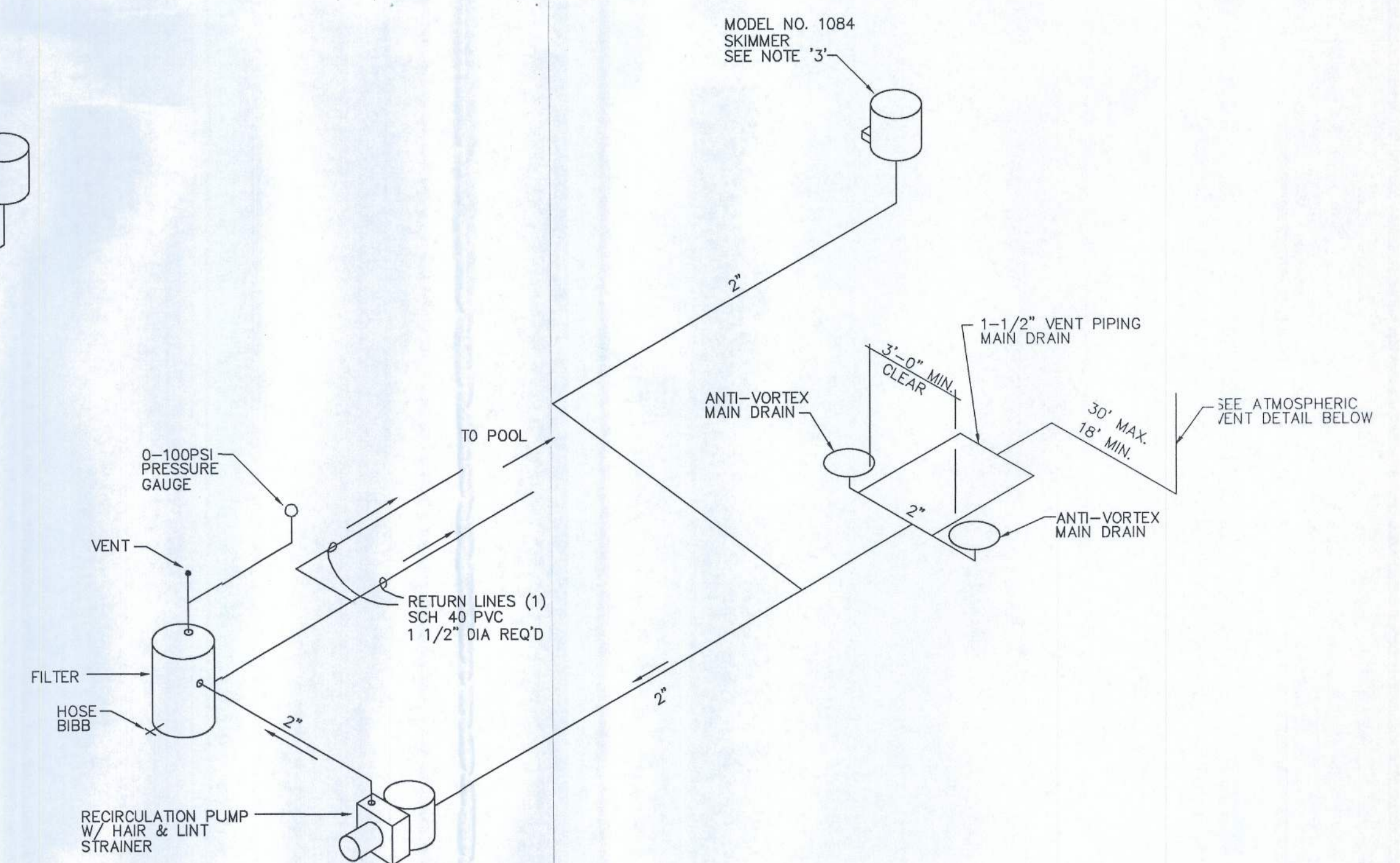
Typical properties of a REINFORCED FIBERGLASS pool:

Barcol hardness of 30 mil gel coat	40 - 50
Glass content by weight	27%
Tensile strength, PSI at 77 F	19,500
Tensile elongation	1 - 2%
Flexural strength, PSI at 77 F	23,800 - 27,600
Flexural modulus, PSI x 10 at 77 F	0.72 - 0.77
Izod Impact FT-LBS/inch of notch	5.9
Compressive strength, PSI	25,000 to 38,000
Typical thickness inches	3/8"



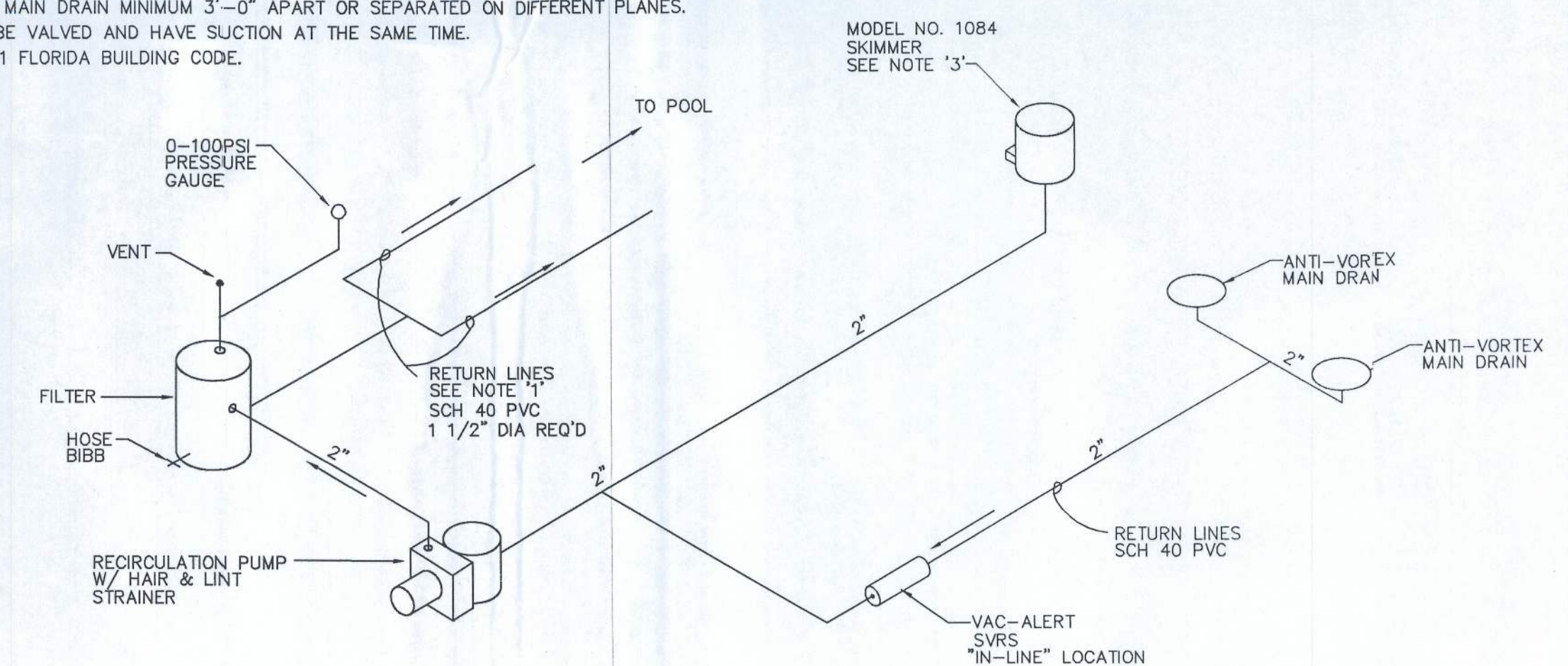
NOTES:

- (1) ONE RETURN LINE REQUIRED FOR POOLS LESS THAN 450 SQ.FT. OF SURFACE AREA. GREATER THAN 450 SQ.FT. OF SURFACE AREA REQUIRE TWO LINES. MINIMUM SEPARATION OF LINES ENTERING POOL SHALL BE 10 FT.
- (2) SUMP LINE (WHEN REQ'D) TO BE 2 SCH. 40 PVC FROM 4 CUBIC FOOT GRAVEL BED BENEATH MAIN DRAIN TO 18" FROM EQUIPMENT.
- (3) TWO SKIMMERS REQUIRED IF POOL AREA GREATER THAN 450 SQ.FT. OF SURFACE AREA.



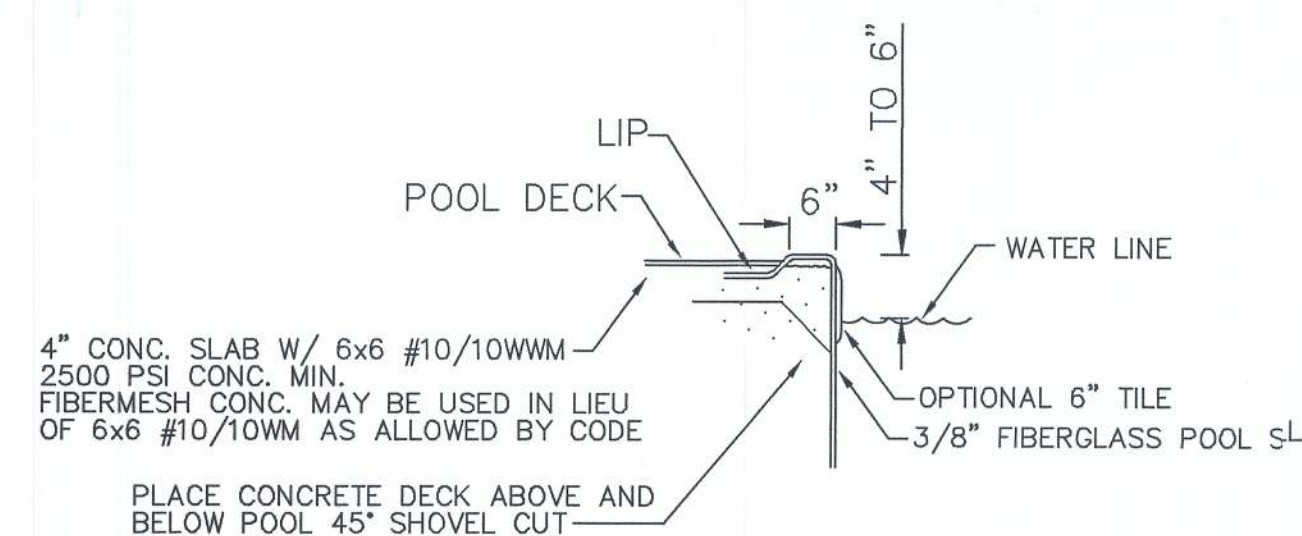
NOTES:

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- (3) TWO SKIMMERS REQUIRED IF POOL AREA GREATER THAN 450 SQ.FT. OF SURFACE AREA.
- (4) TESTED IN COMPLIANCE WITH FLORIDA BUILDING CODE 424.2.6.6 SUCTION ENTRAPMENT ATMOSPHERIC VENT TEST PROTOCOL.
- (5) THE ACTUAL SUCTION ENTRAPMENT ATMOSPHERIC VENT TESTING WAS ACCOMPLISHED UNDER MY DIRECTION AND SUPERVISION ON DECEMBER 8, 2001.
- (6) THE MAXIMUM VACUUM WITH ONE SUMP PLUGGED AND A BODY ENTRAPMENT ON THE OTHER SUMP NEVER EXCEED 4.5" OF MERCURY. THE ENTRAPMENT RELEASED IN LESS THAN 3 SECONDS.
- (7) ALL SUCTION PIPING TO BE 2"
- (8) ALL VENT PIPING TO BE 1-1/2"
- (9) MAXIMUM SUCTION PIPE VELOCITY TO BE 6 FEET PER SECOND.
- (10) MAIN DRAIN LOCATED IN DEEPEST PART OF THE POOL.
- (11) POOL MUST HAVE MAIN DRAIN MINIMUM 3'-0" APART OR SEPARATED ON DIFFERENT PLANES. THEY MUST NOT BE VALVED AND HAVE SUCTION AT THE SAME TIME.
- (12) FITTINGS PER 2001 FLORIDA BUILDING CODE.



NOTES:

- (1) ONE RETURN LINE REQUIRED FOR POOLS LESS THAN 450 SQ.FT. OF SURFACE AREA. GREATER THAN 450 SQ.FT. OF SURFACE AREA REQUIRES TWO LINES. MINIMUM SEPARATION OF LINES ENTERING POOL SHALL BE 10'.
- (2) SUMP LINE (WHEN REQ'D) TO BE 2 SCH. 40 PVC FROM 4 CUBIC FOOT GRAVEL BED BENEATH SKIMMERS TO 18" FROM EQUIPMENT.
- (3) TWO SKIMMERS REQUIRED IF POOL AREA GREATER THAN 450 SQ.FT. OF SURFACE AREA.



The diagram illustrates the electrical wiring for a pool pump motor. It shows the following components and connections:

- ELECTRIC PANEL:** The main power source, connected to the **WATERPROOF DISCONNECT SWITCH**.
- WATERPROOF DISCONNECT SWITCH:** A switch that controls power to the pump motor and provides a ground connection.
- TIME CLOCK:** A device that controls the pump motor's operation based on a set schedule.
- PUMP MOTOR GROUND W/ PROTECTIVE:** The pump motor and its protective components.
- MANUAL MOTOR STARTER SWITCH:** A switch that allows for manual starting of the pump motor.
- NO. 12 MIN. THW BOND WIRE:** A bonding wire that connects the pump motor ground to the pool area.
- 3-NO. 12 IN 3/4" SCH 40 PVC IN POOL AREA:** A conduit for the bonding wire in the pool area.

Diagram illustrating the construction details of a pool deck and wall assembly. The diagram shows a cross-section of the pool wall and deck, with various components and dimensions labeled:

- 5"**: Dimension for the top horizontal section of the wall.
- 1,900 O.D. STAINLESS STEEL TUBE**: Label for the vertical support structure.
- DECK**: Label for the horizontal surface.
- WEDGE ANCHOR**: Label for the anchor securing the deck to the wall.
- 8"**: Dimension for the thickness of the deck.
- #8 GROUND WIRE**: Label for the reinforcement wire.
- PLACE CONCRETE DECK ABOVE AND BELOW POOL WALL LIP W/ 45° SHOVEL CUT**: Instruction for the concrete placement.
- WATER LEVEL**: Indicated by a dashed line.
- 6'-1/2"**: Dimension for the height of the wall above the water level.
- RESISTANT ADS**: Label for the material on the wall.
- UBBER BUMPER**: Label for the protective bumper at the bottom of the wall.
- FIBERGLASS POOL WALL**: Label for the main wall structure.

WALL SECTION
NOT TO SCALE

MICHAEL A. ROBINSON, P.E.
(RUSTY)
STRUCTURAL ENGINEERING
INDUSTRIAL, COMMERCIAL, & RESIDENTIAL

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LAKELAND, FLORIDA 33809
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FAX LINE: 863-858-9861
E-MAIL ADDRESS: rusty@rustymar@aol.net

REV	DESCRIPTION	DATE	APRV
<i>AECC/SAN JUAN POOLS</i>			
BY: AMERICAN ENVIRONMENTAL CONTAINER CORP. 2302 LASSO LANE LAKELAND, FLORIDA 33801 (941) 666-3020			
<i>Date</i>	<i>Checked By</i>	<i>Job Jo.</i>	
12-22-99	MAR		
<i>Title</i>	<i>SPECIFICATIONS/DETAILS</i>		<i>Sheet</i>
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