

PARAGON POOLS

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License
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Paragon Pools
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DESIGNER
Brent Hardy
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REV

SCALE 1/8" = 1'

SHEET 1 OF 1

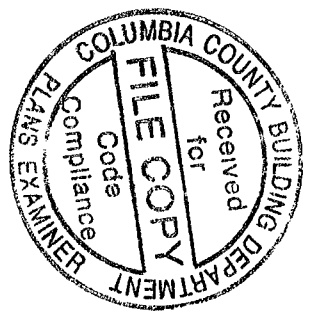


Diagram illustrating the piping and components for a recirculating pump system, including a pressure filter, pump, skimmer, and various valves and fittings.

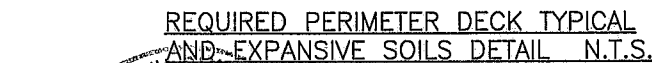
Components and Labels:

- PRESSURE FILTER (SAND, DE, CARTRIDGE OR EQUIVALENT) PROVIDE BACK WASH PLUMBING
- SAND OR DE W/MULTI-PORT VALVE & SIGHT GLASS
- TO WASTE
- STUB UP 6"
- NSF APPROVED RECIRCULATING PUMP W/HAIR & LINT STRAINER
- 0-60 PSI GAUGE
- 1-1/2" SCH. 40 PVC
- MIN. 2 RETURNS
- WALL DRAINS/SUCTION FITTINGS
- 3 WAY VALVE
- 2" VENT
- SUMP LINE
- SKIMMER— PROVIDE 2 SKIMMERS IF POOL AREA EXCEEDS 600 S.F.
- 18" FROM EQUIPMENT

Notes:

- * PROVIDE SUMP LINE WHEN REQUIRED. 1-1/2" SCH. 40 PVC FROM BENEATH MAIN DRAIN TO 18" FROM EQUIPMENT AND STUB UP 6".

Filter & Piping Isometric N.T.S.
COMPLY W/NSF 50, UL1081



OPTIONAL CANTILEVER DECK DETAIL. N.T.S.

DESIGN DIMENSIONS SHALL COMPLY WITH SPECIFICATIONS IN ANSI/NSPI 5 RESIDENTIAL INGROUND SWIMMING POOLS BASED ON THE POOL TYPE AND NSPI 3 PERMANENTLY INSTALLED RESIDENTIAL SPAS.

ENTRY/EXIT: SHALL COMPLY WITH ANSI/NSPI 5 AND NSPI 3. LADDERS, UNDERWATER SEATS, AND SWIMMOUTS (MAX.20" BELOW WATER).

THE MAXIMUM TURNOVER RATE IS 12 HOURS.

SURFACE SKIMMERS SHALL MEET NSF 50 AND THERE SHALL BE

ONE FOR EVERY 800 SQUARE FEET OF SURFACE AREA.

RETURN INLETS SHALL BE A MINIMUM OF ONE FOR EVERY 600 SQUARE FEET.

HEATERS SHALL MEET ANSI-Z21.56 OR UL1261 OR UL559 DISINFECTANT EQUIPMENT SHALL COMPLY WITH NSF 50.

PRESSURE TEST PIPING AT 35 PSI FOR 15 MINUTES OR MEET LOCAL CODE IF GREATER.

PIPE SIZING CHART (MAXIMUM)	
PIPE	SUCTION PRESSURE
1 1/2"	50 GPM
2"	83
2 1/2"	119
3"	184
4"	317
	65 GPM
	105
	147
	230
	396

MAXIMUM WATER DEPTH 4', MAXIMUM SEAT DEPTH 28", MAX. FLOOR SLOPE 1:12.

STEPS: MIN. TREAD 10"X12" 7" MIN. RISER, 12" MAX. RISER EXCEPT THE BOTTOM

STEPS: MIN. TREAD 10"X12", 7" MIN. RISER, 12" MAX. RISER EXCEPT THE BOTTOM STEP MAY BE 14" IF IT IS THE SEAT.

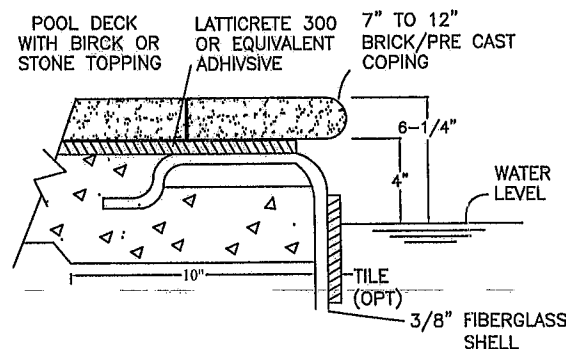
INTERMEDIATE TREADS AND RISERS TO BE UNIFORM.

IF THE SPA IS OPERATED INTERMITTENTLY IT SHALL HAVE A ONE HOUR TURNOVER, IF CONTINUOUS A SIX HOUR TURNOVER.

MAXIMUM TEMPERATURE 104 DEGREES.

MEET ANSI/NSPI ARTICLE XVII, SAFETY INSTRUCTION/SAFETY SIGNS. PRESSURE TEST PIPING AT 35 PSI FOR 15 MINUTES OR MEET LOCAL CODE IF GREATER.

WIRING AND BONDING AND ALL ELECTRICAL TO NEC ART. 680 OR LOCAL CODE. NO
OUTLET OR OVERHEAD POWER WITHIN 10', IF WITHIN 15' PROTECT BY GFI,
TRANSFORMER MIN. 10' FROM POOL, 8" ABOVE WATER, J BOX 4' FROM POOL, BRASS
TO J BOX OR TRANSFORMER WHICH EVER IS FIRST EXCEPT WHERE PVC IS APPROVED.



OPTIONAL PRECAST BRICK OR
STONE TOPPING DETAIL N.T.S.

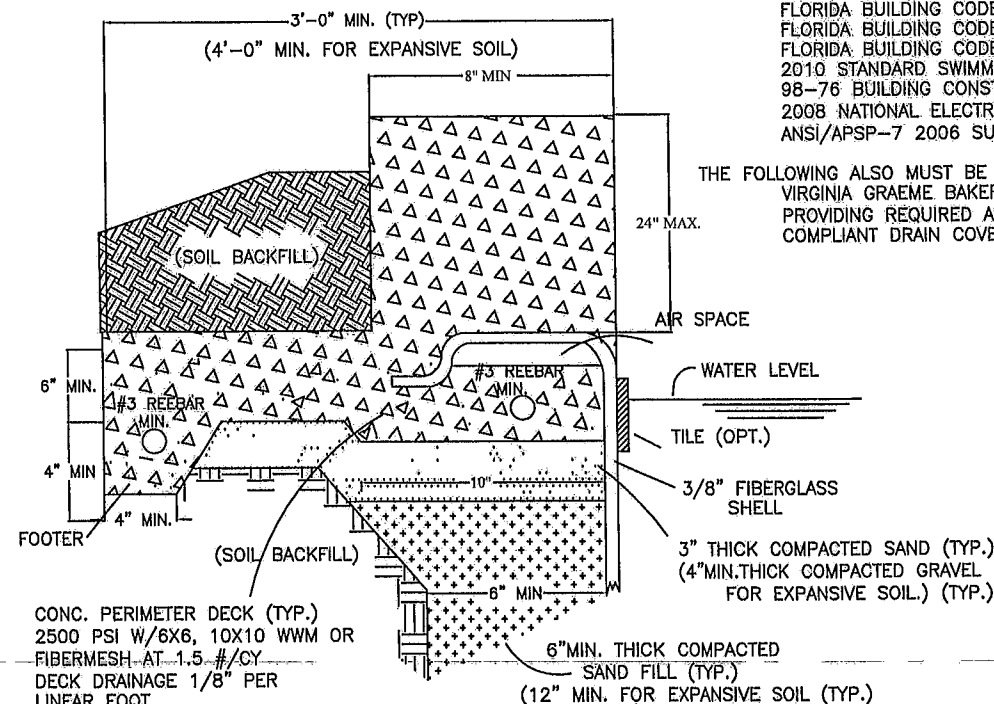
THE POOL CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL DETAIL DESIGN REQUIREMENTS FOR EACH INDIVIDUAL POOL IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, AND ALL CONSTRUCTION SHALL MEET ALL APPLICABLE CODES INCLUDING PLUMBING, ELECTRICAL AND GAS. PIPING SHALL BE SCH. 40 PVC, NSF/P, MAX. PRESSURE VELOCITY 10 FPS, SUCTION 6 FPS. THE POOL PLAN SHALL SHOW THE DESIGN PLUMBING AS PER THE SAMPLE WITH THE INFORMATION REQUIRED SHOWN.

MAIN DRAIN PLUMBING SHALL BE TWO DRAINS SEPARATED BY 3' WITH APPROVED ANSI/ASME A112.19.8-2007 COVERS. AS AN ALTERNATE THE APPROVED DRAINS MAY BE PLACED ON DIFFERENT PLANES. THE TWO DRAINS SHALL HAVE A COMMON SUCTION LINE, SUCTION GRATES MAY BE USED IF APPROVED AT A MAXIMUM OF 1-1/2 FPS AND THE SUCTION PIPING IS RECESSED FROM THE GRATE THE DISTANCE EQUAL TO THE SUCTION PIPE SIZE. IN ADDITION A SAFETY VACUUM RELEASE SYSTEM MUST BE INSTALLED. THIS MAY CONSIST OF AN AIR RELEASE SYSTEM, THE VENT PIPE SHALL BE TIED TO THE MAIN DRAIN LINES, SIZED THE SAME AS THE MAIN DRAIN SUCTION LINE AND BROUGHT BACK TO THE FILTER LOCATION, ELBOWED UP AND OVER WITH A GRATE FOR PROTECTION AND LABELED "SAFETY VENT". AS AN ALTERNATIVE THE SAFETY VACUUM RELEASE SYSTEM (SVRS) MAY BE AN APPROVED VALVE MEETING IAPMO IGC 180-2001a.

SKIMMERS DO NOT REQUIRE PROTECTION AND MAY BE DESIGNED FOR 30 GPM SUCTION.

THE FOLLOWING SHALL BE LABELED WITH RED LABEL MAKER TAPE AT THE FILTER LOCATION: PIPE, VALVES, "SAFETY VENT" OR "SAFETY DEVICE", PUMP(S) OFF SWITCH.

I HEREBY CERTIFY THAT I HAVE DESIGNED THIS AND IT IS IN COMPLIANCE WITH THE FLORIDA BUILDING CODE 424-2 and RESIDENTIAL CHAPTER 41/R4101, ANSI/NSPI-3 1999, STANDARD FOR PERMANENTLY INSTALLED SPAS AND ANSI/NSPI-5 2003 STANDARD FOR RESIDENTIAL INGROUND SWIMMING POOLS.



POOL AND DECK TYPICAL AND EXPANSIVE SOILS DETAIL N.T.S

1. POOL INSTALLATION SHALL BE BY A QUALIFIED AND LICENSED (APPROVED BY LOCAL BUILDING DEPARTMENT) POOL CONTRACTOR, THE INSTALLATION SHALL CONFORM TO ALL LOCAL BUILDING CODES, IE, PERMITS SPECIFICATIONS, CODES, RULES, INSPECTIONS, WORKMANSHIP, ETC.

2. TYPICAL PROPERTIES OF A REINFORCED FIBERGLASS POOL:

GEL COAT/ISO-NPG MIL Application	25
GLASS CONTENT BY WEIGHT	35%
TENSILE STRENGTH, PSI	16733
TENSILE ELONGATION	1-2%
FLEXURAL STRENGTH, PSI	43123
FLEXURAL MODULUS, PSI (X10 ⁶)	1.37
COMPRESSIVE STRENGTH, PSI	25300
TYPICAL THICKNESS, INCHES	1/4

3. POOL SHELL SHALL BEAR ON UNDISTURBED SOIL, FREE OF PEAT, MUCK, OR OTHER DELETERIOUS MATERIAL OF ANY SIGNIFICANT AMOUNT.

4. BACKFILL MATERIAL MUST NOT CONTAIN ROCKS OR OTHER MATERIALS THAT COULD DAMAGE POOL WALLS.

5. POOL TURNOVER SHALL BE 12 HOURS, MAXIMUM WITH HI-RATE RAPID SAND FILTER (MIN. 18" DIAM, OR 1.75 S.F.) AND PROPERLY GROUNDED, APPROVED PUMP (MIN. 3/4 H.P. W/29 G.P.M. 60 T.D.H.) HAYWARD OR (EQUAL).

6 STEPS OR A LADDER SHALL BE PROVIDED AT THE SHALLOW END OF THE POOL.

7. HANDRAILS REQUIRED ON SOME POOLS.

8. INSTALL LOW VOLTAGE LIGHT AS PER N.E.C. 680.

9. DIVING PLATFORMS OR DIVING BOARDS ARE NOT TO BE INSTALLED ON THESE POOLS EXCEPT FOR THE BIG BLUE KEYTM POOL PLAN. THIS POOL MEETS THE ANSI/NSPI-5 2003, DIVING POOL REQUIREMENTS FOR TYPE 1 & TYPE 2 POOLS.

10. DURING A HURRICANE WARNING OR ALERT, THIS POOL SHALL BE FILLED WITH WATER.

11. THESE POOL PLANS MEET OR EXCEED THE ANSI/NSPI 5 2003 RESIDENTIAL INGROUND SWIMMING POOL AND ANSI/NSPI 3 1999 PERMANENTLY INSTALLED RESIDENTIAL SPA STANDARDS

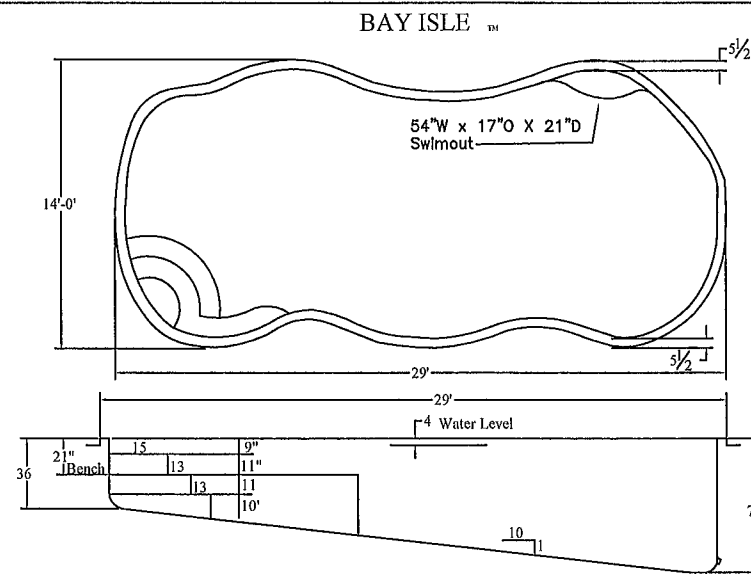
THE FOLLOWING CODES ARE TO BE MET WHERE REQUIRED:

FLORIDA BUILDING CODE—BUILDING 2010
FLORIDA BUILDING CODE—MECHANICAL 2010
FLORIDA BUILDING CODE—PLUMBING 2010
FLORIDA BUILDING CODE—FUEL GAS 2010
2010 STANDARD SWIMMING POOL CODE
98-76 BUILDING CONSTRUCTION ADMINISTRATIVE CODE
2008 NATIONAL ELECTRICAL CODE AND/OR ANY SUPPLEMENT
ANSI/APSP-7 2006 SUCTION ENTRAPMENT AVOIDANCE

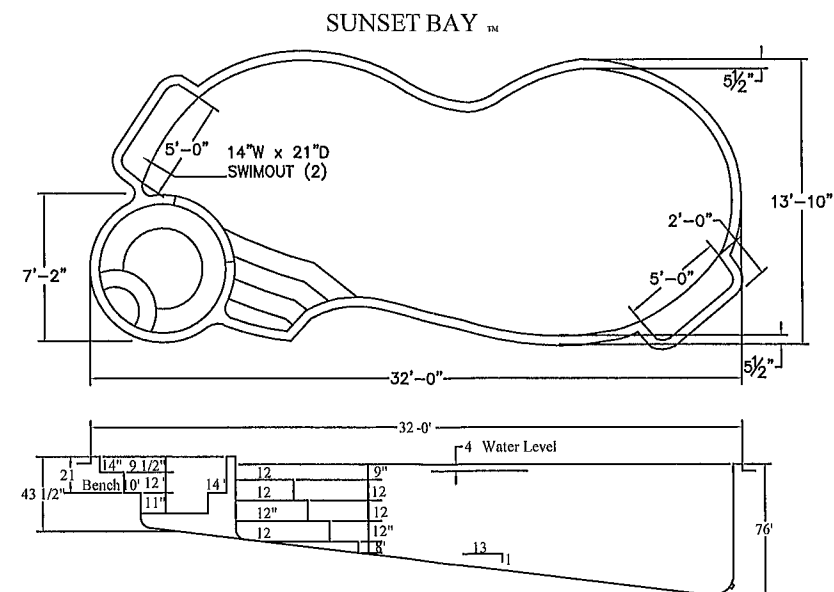
THE FOLLOWING ALSO MUST BE MEET:
VIRGINIA GRAEME BAKER POOL AND SPA SAFETY ACT
PROVIDING REQUIRED ANSI/ASME A112.9.8-2007
COMPLIANT DRAIN COVERS

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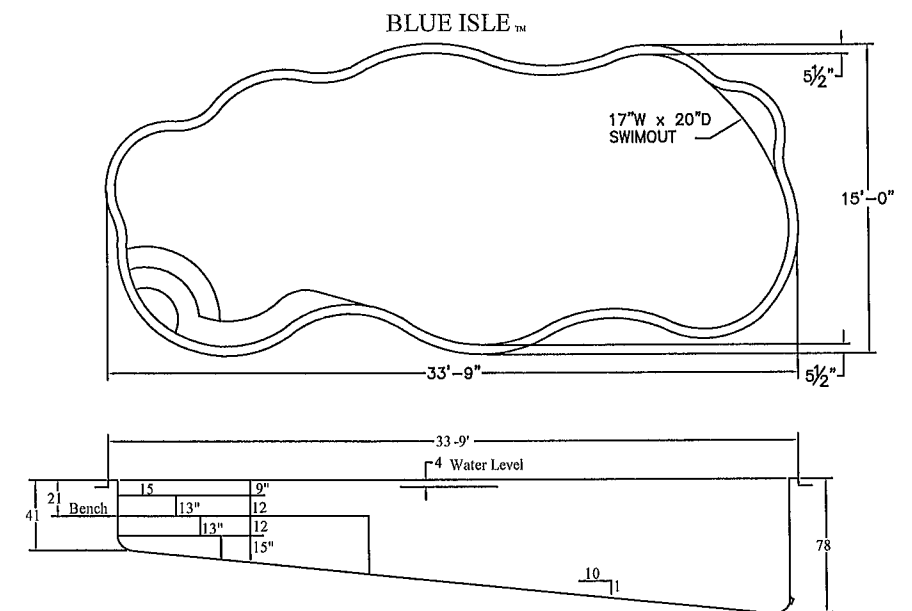
LATHAM POOL PRODUCTS INC D.B.A.
BLUE HAWAIIAN FIBERGLASS POOLS
40119 County Road 54 East
Zephyrhills, FL. 33540
831-783-7439 PG. 1 of 8



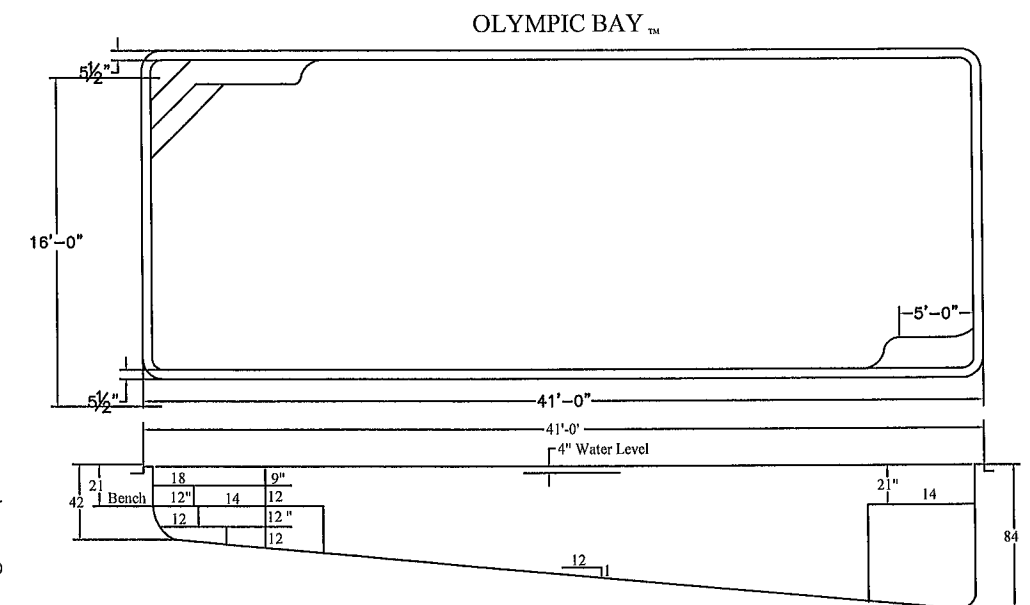
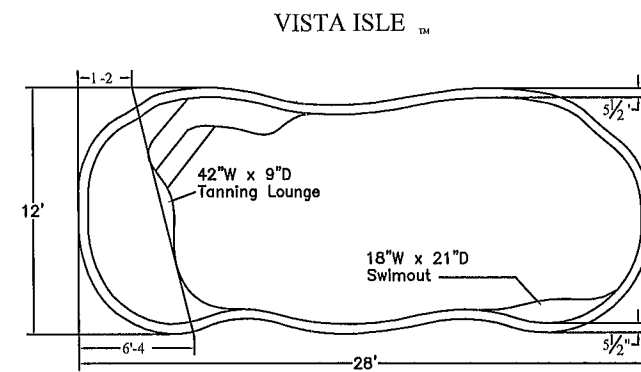
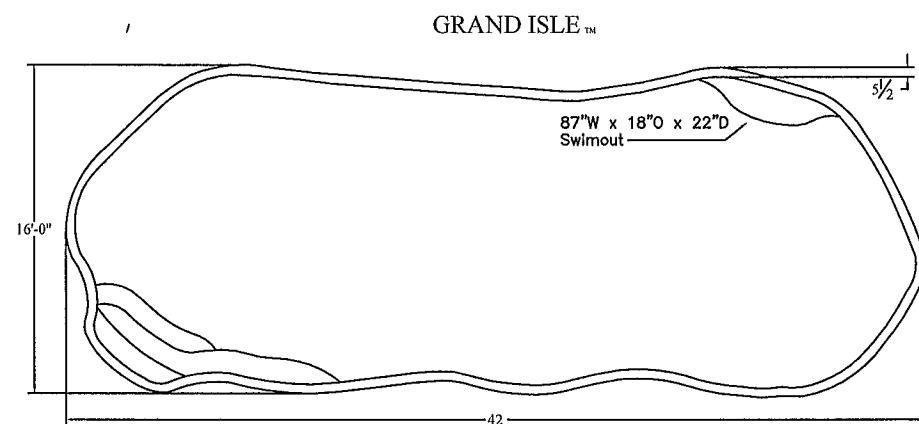
Surface Area = 339 S F.



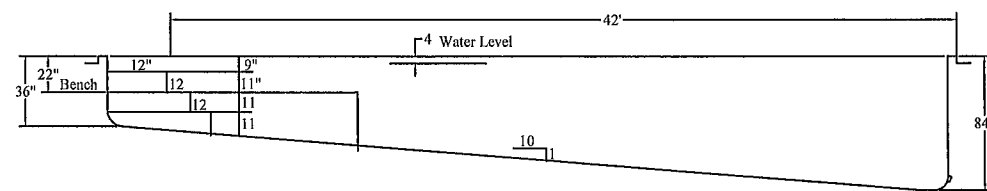
Surface Area = 365 S.F.



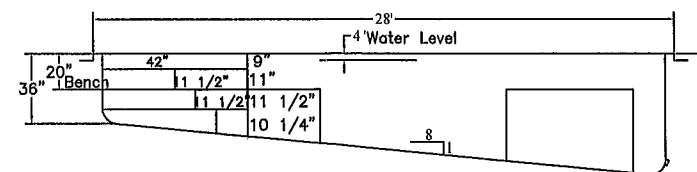
Surface Area = 420 S.F.



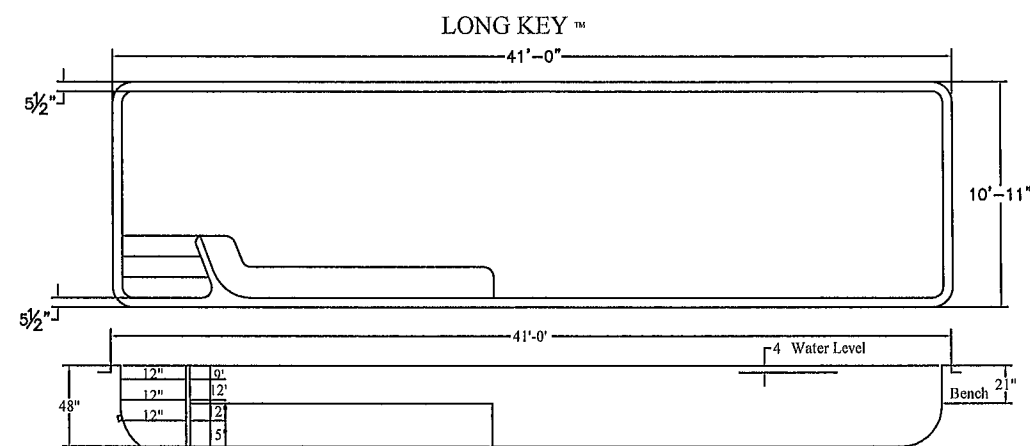
Surface Area = 655 S.F.



Surface Area = 516 SF



Surface Area = 294 S F.



Surface Area = 451 S.F.

NOTE:
THIS SHEET IS NOT VALID UNLESS USED WITH PAGE 1.

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8/12/13