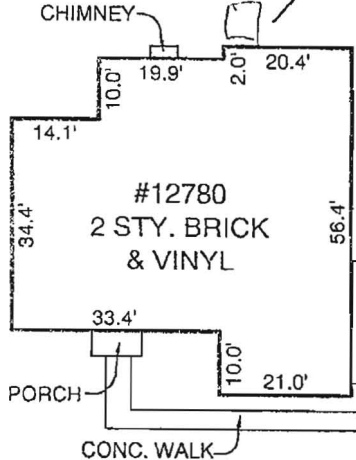
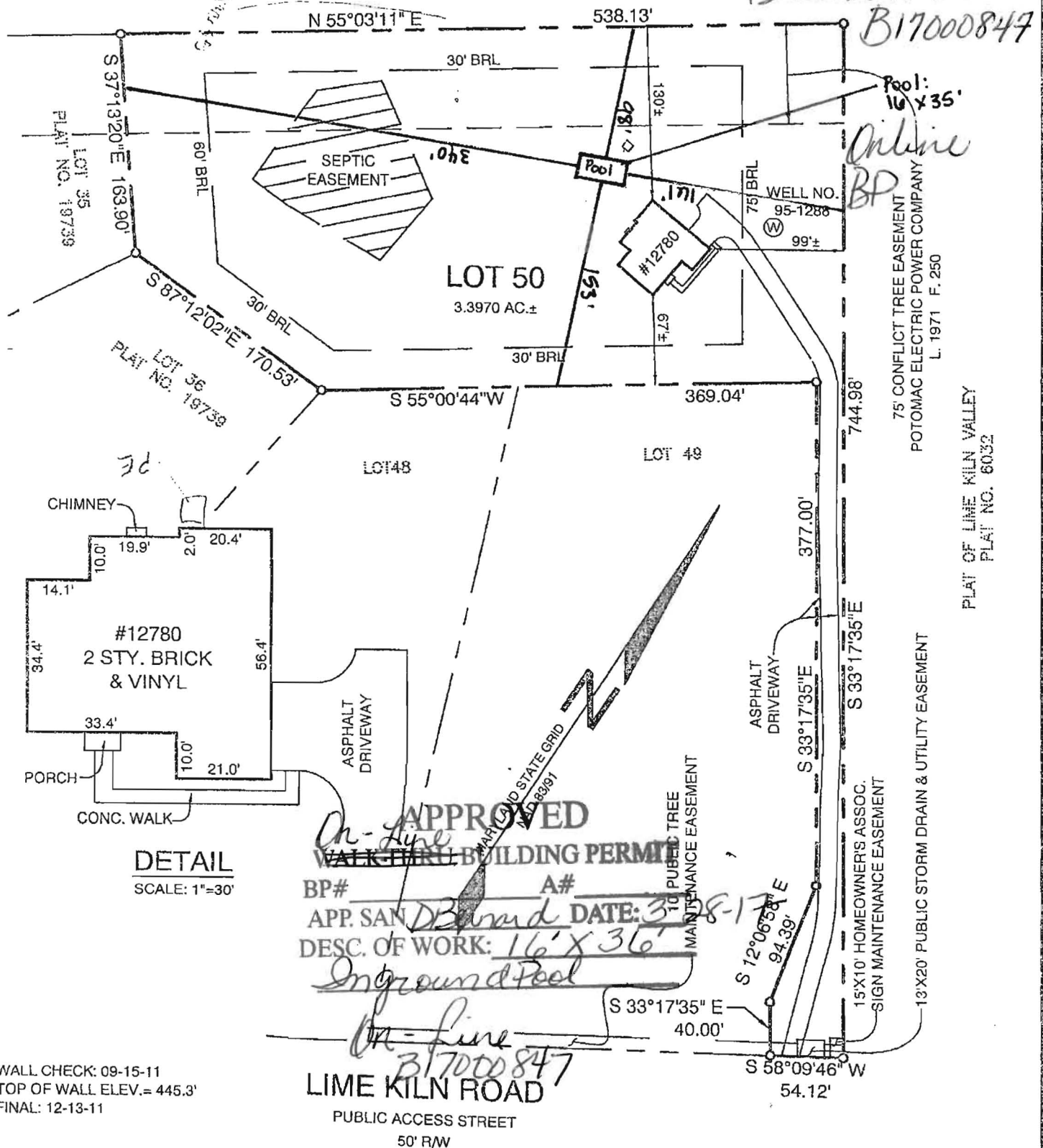


N/F POTOMAC ELECTRIC POWER COMPANY  
L. 2056 F. 131

Build Permit #  
B17000847



**DETAIL**  
SCALE: 1"=30'

**APPROVED**  
**WALK-TREE BUILDING PERMIT**

BP# \_\_\_\_\_ A# \_\_\_\_\_  
APP. SAN Board DATE: 3-28-17  
DESC. OF WORK: 16' x 36' Inground Pool

**LIME KILN ROAD**  
PUBLIC ACCESS STREET  
50' RAW

**LOCATION DRAWING**  
**12780 LIME KILN ROAD**  
**LOT 50**  
**PLAT OF REVISION**  
**LIME KILN VALLEY**

WALL CHECK: 09-15-11  
TOP OF WALL ELEV.= 445.3'  
FINAL: 12-13-11

- NOTES:
1. THIS PLAT IS A BENEFIT TO THE CONSUMER ONLY INsofar AS IT IS REQUIRED BY A LENDER OR A TITLE INSURANCE COMPANY OR ITS AGENTS IN CONNECTION WITH CONTEMPLATED TRANSFER, FINANCING OR REFINANCING PURPOSES. THIS PLAT IS NOT TO BE RELIED UPON FOR THE ESTABLISHMENT OR LOCATION OF FENCES, GARAGES, BUILDINGS OR OTHER EXISTING OR FUTURE STRUCTURES. THIS PLAT DOES NOT PROVIDE FOR THE ACCURATE IDENTIFICATION OF PROPERTY BOUNDARY LINES, BUT SUCH IDENTIFICATION MAY NOT BE REQUIRED FOR THE TRANSFER OF TITLE OR FOR SECURING FINANCING OR REFINANCING.
  2. THE ± SETBACK ACCURACY IS 1 FOOT
  3. THIS PLAN OR PLAT IS NOT INTENDED TO SHOW ALL MATTERS RELATED TO THE PROPERTY SHOWN HEREON.



1. MATERIALS:

- (a). RESINS SHALL BE TYPE B POLYESTER (UNO).
  - (b). REINFORCEMENT SHALL BE CLASS 'E' GLASS FIBER, MIN GLASS CONTENT OF TOTAL SHELL THICKNESS ~ 30% BY WEIGHT.
2. SHELL SHALL BE SPRAY MOULDED & HAND LAID WITH:
- (a). .03" GEL COAT (NPG).
  - (b). .12" BARRIER COAT (VINYL ESTER).
  - (c). STRUCTURAL LAYER WHICH WILL GIVE TOTAL BARRIER/STRUCTURAL THICKNESS NOMINATED ON DRAWING.
3. ALL LAYERS SHALL BE ROLLED OUT TO COMPLETELY BOND REINFORCING & RESINS & EXPEL AIR.
4. STRUCTURAL LAMINATE SHALL HAVE:
- (a). FLEXURAL STRENGTH OF 11,000 psi.
  - (b). TENSILE STRENGTH OF 6,100 psi.
  - (c). MODULES ELASTICITY OF 632,000 psi.

1. THE FIBERGLASS POOL SHELL SHALL BE MANUFACTURED BY RIVER POOLS USA & INSTALLED BY A QUALIFIED & LICENSED POOL CONTRACTOR. THE POOL SHALL BE INSTALLED PER THE "RIVER POOLS USA INSTALLATION MANUAL".
2. POOL SHALL CONFORM TO REQUIREMENTS OF IRC 2015 & LOCAL BUILDING CODE.
3. THE POOL SHELL MAY BE DAMAGED IF THE POOL WATER IS DROPPED BELOW NORMAL OPERATING LEVEL. CONSULT THE MANUFACTURER PRIOR TO EMPTYING THE POOL.
4. POOL SHALL BE PLACED ON COMPACTED 2-4" THICK BED OF GRANULAR BACKFILL WITH 100% PASSING THE 1" SIEVE AND A MAXIMUM OF 10% PASSING THE #200 SIEVE. BED SHALL BE PLACED ON UNDISTURBED SOIL WITH A MINIMUM BEARING CAPACITY OF 1,500 PSF.
5. WALLS SHALL BE BACKFILLED WITH GRANULAR BACKFILL WITH 100% PASSING THE 1 1/2" SIEVE AND A MAXIMUM OF 10% PASSING THE #200 SIEVE. BACKFILL SHALL BE INSTALLED IN 1' LIFTS.  
MAINTAIN WATER & BACKFILL LEVEL WITHIN 1' OF EACH OTHER.
6. STEPS OR LADDERS SHALL BE PROVIDED PER LOCAL CODE.
7. INSTALLATION CONTRACTOR SHALL PROVIDE POOL DECK & POOL BARRIERS AS REQUIRED BY LOCAL CODE.
8. ALL REINFORCING STEEL SHALL HAVE A MINIMUM YIELD STRENGTH OF 60,000 psi & SHALL BE BONDED TO GROUNDING GRID WITH APPROVED UL LISTED CONNECTORS & #8 SOLID COPPER WIRE.
9. CONCRETE SHALL BE MIN. 3,000 psi AT 28 DAYS.

**2 FIBERGLASS SHELL REQUIREMENTS**

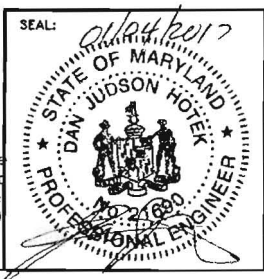
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RIVER POOLS USA - POOL DIMENSIONS				
POOL MODEL	LENGTH	WIDTH	SHALLOW DEPTH	DEEP END DEPTH
GRECO	36'-0"	16'-0"	3'-8"	5'-6"
OASIS	30'-0"	15'-0"	3'-8"	5'-6"
OASIS 27	27'-0"	15'-0"	3'-8"	5'-4"
ROMAN LOUNGER 36	36'-0"	16'-0"	3'-11"	5'-3"
CRESCENT COVE 35	35'-0"	16'-0"	3'-8"	5'-11"
CRESCENT COVE 40	40'-0"	16'-0"	3'-8"	6'-3"

**1 POOL DIMENSIONS**

Scale: NO SCALE

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**3 CONSTRUCTION NOTES**

Scale: NO SCALE

**DRAWING INDEX**

- SHEET 1 - FIBERGLASS SHELL REQUIREMENTS, CONSTRUCTION NOTES & POOL DIMENSIONS
- SHEET 2 - POOL DIAGRAMS
- SHEET 3 - POOL DETAILS
- SHEET 4 - CODE ANALYSIS



In the beginning God created the heavens and the earth. Genesis 1:1

**RIVER POOLS USA**  
...making the most of life creation!

300 SKY MEADOW LAKE  
Front Royal, VA 22630  
Ph: (540) 635-2321  
Fax: (540) 635-2321  
don.judson@riverpoolsusa.com

Dan J. Hotek, P.E.  
President/Structural Engineer

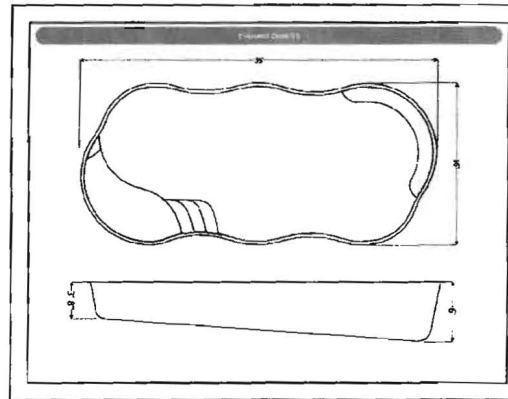
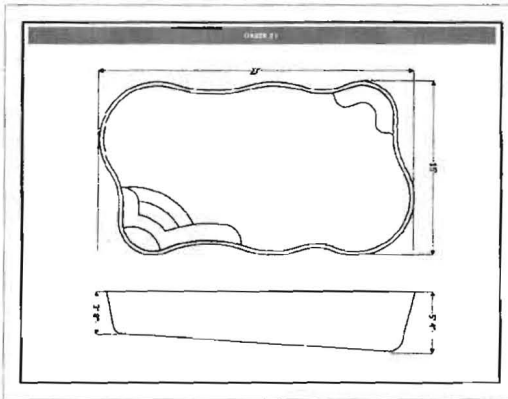
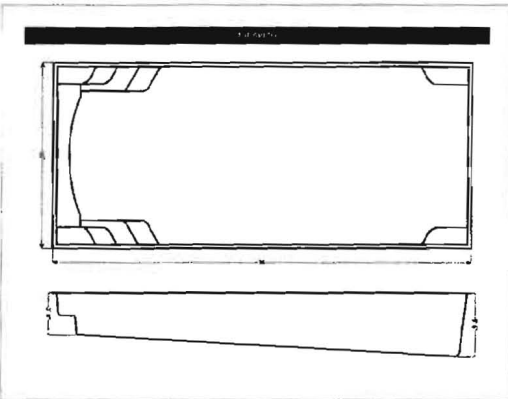
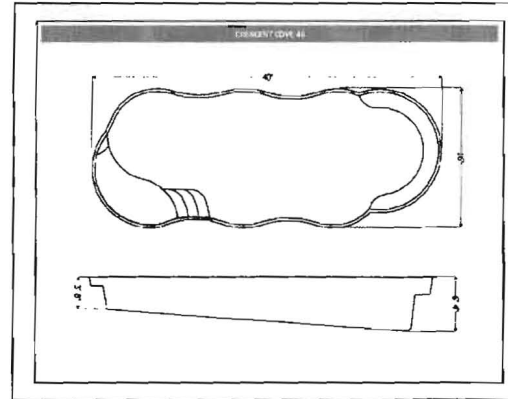
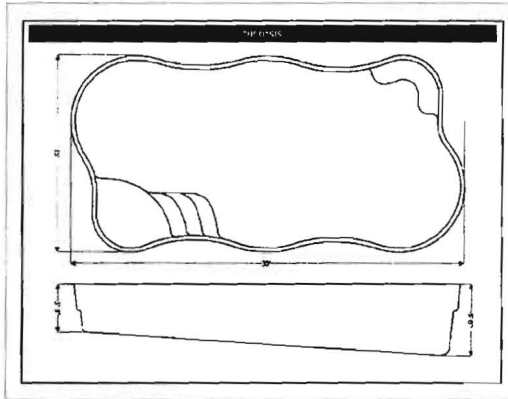
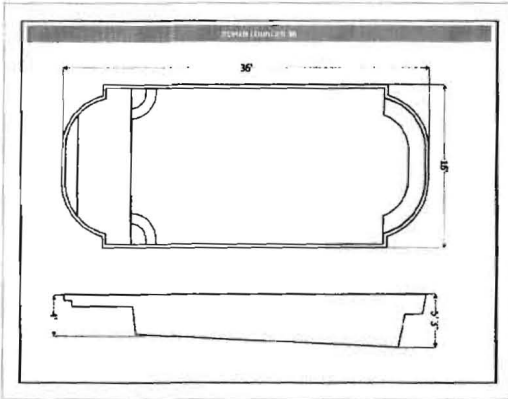
REVISIONS			
NO.	DATE	DESCRIPTION	BY

RIVER FIBERGLASS POOLS  
TYPICAL NOTES AND DETAILS

RIVER POOLS USA SPAS  
106 Sealfloem Road, Warrenton, VA 22672  
888-868-7665 804-333-9962 804-633-9967 (fax)

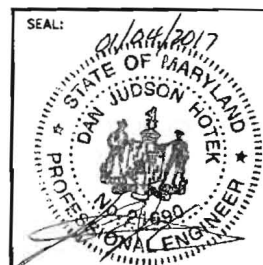
RIVER POOLS USA  
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1  
of 4



**1 POOL DIAGRAMS**  
Scale: NO SCALE

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In the beginning God created the heavens and the earth. Genesis 1:1



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Ph (540) 658-1921  
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dhotek@riverpools.com

Dan J. Hotek, P.E.  
President/Structural Engineer

NO.	REV.	DATE	BY

NO.	REV.	DATE	BY

**RIVER FIBERGLASS POOLS**  
TYPICAL NOTES AND DETAILS

RIVER POOLS AND SPAS  
196 Belltown Road, Warrenton, VA 22572  
888-538-7885 804-333-9162 804-333-9167 (fax)

RIVER POOLS USA  
NOTES AND DETAILS

**2015 ISPC - SWIMMING POOL CODE ANALYSIS**  
**CHAPTER 8 - PERMANENT INGROUND RESIDENTIAL SWIMMING POOL**

**802.1 MATERIALS OF COMPONENTS AND ACCESSORIES**

The swimming pool materials shall be suitable for the environment in which they are installed and shall be capable of fulfilling the design, installation and intended use requirements in the International Residential Code (IRC).

*The subject pools are composed of fiber glass shells meeting these requirements. See "FIBERGLASS SHELL REQUIREMENTS".*

**802.2 STRUCTURAL DESIGN**

The structural design and materials shall be in accordance with the IRC.

*The subject pools meet or exceed all loads prescribed in IRC Section 301. All pool installations in Flood Hazard A or V Zones (as noted in IRC Section 322) require additional hold-down features to be designed on a case-by-case basis.*

**803.1 CONSTRUCTION TOLERANCES**

The construction tolerance for dimensions for the overall length, width and depth of the pool shall be  $\pm 3$  inches. The construction tolerance for all other dimensions shall be  $\pm 2$  inches, unless otherwise specified by the design engineer.

*The subject pools meet the noted construction tolerances. Field installation tolerances should be verified during field inspections.*

**804 DIVING WATER ENVELOPES**

*N/A The subject pools are non-diving.*

**805 WALLS**

Walls in the shallow area and deep areas of the pool shall have a wall-to-floor transition point that is not less than 33 inches below the design waterline. Above the transition point, the walls shall be within 11 degrees of vertical.

*The subject pools have a wall-to-floor transition 41" below the design waterline and the walls are within 6 degrees of vertical.*

**806.1 OFFSET LEDGES-MAXIMUM WIDTH**

Offset ledges shall be not greater than 8 inches in width.

*The subject pools have offset ledges equal to 3 1/2".*

**807.1 POOL FLOOR SLOPES**

Floor slopes shall be in accordance with Sections 807.1.1 through 807.1.3

*The subject pools have a single 1 unit vertical to 14 unit horizontal slope either meeting or making all the subject requirements N/A.*

**807.2 SHALLOW END WATER DEPTHS**

The design water depth as measured at the shallowest point in the shallow area shall be not less than 33 inches and not greater than 4 feet. Shallow areas designed in accordance with Sections 809.6, 809.7 and 809.8 shall be exempt from the minimum depth requirement.

*The subject pools have a minimum depth of 3'-8" (44").*

**808 DIVING EQUIPMENT**

*N/A The subject pools are non-diving.*

**809 SPECIAL FEATURES**

**809.1 SLIDES**

*N/A The subject pools do not include integral slides.*

**809.2 ENTRY AND EXIT**

Pools shall have a means of entry and exit in all shallow areas where the design water depth of the shallow area at the shallowest point exceeds 24 inches at the shallowest point. Entries and exits shall consist of one or a combination of the following: steps, stairs, ladders, treads, ramps, beach entries, underwaterseats, benches, swimouts and other approved designs. The means of entry and exit shall be located on the shallow side of the first slope change.

*The subject pools have at least one stair at the shallow end of the pool.*

**809.3 SECONDARY ENTRIES AND EXITS**

Where water depth in the deep area of a pool exceeds 5 feet, a means of entry and exit shall be provided in the deep area of the pool.

*The subject pools have an underwaterseat in the deep end.*

**809.4 OVER 30 FEET WIDTH**

*N/A The subject pools are not in excess of 30' in width.*

**809.5.1 TREAD DIMENSION AND AREA**

Treads shall have a minimum unobstructed horizontal depth of 10 inches and a minimum unobstructed surface area of 240 square inches.

*The subject pools have treads with a minimum unobstructed horizontal depth of 10 inches and a minimum unobstructed surface area of 240 square inches.*

**809.5.2 RISER HEIGHTS**

Risers, other than the top and bottom riser, shall have a uniform height of not greater than 12 inches (305 mm). The top riser height shall be any dimension not exceeding 12 inches

(305 mm). The bottom riser height shall be any dimension not exceeding 12 inches (305 mm). The top and bottom riser heights shall not be required to be equal to each other or equal to the uniform riser height. Riser heights shall be measured at the horizontal centerline of the stairs

*The subject pools have typical riser heights of 12" and top risers of 8".*

**809.5.3 ADDITIONAL STEPS**

In design water depths exceeding 48 inches, additional steps shall not be required.

*The subject pools meet this criteria.*

**809.6 BEACH AND SLOPING ENTRIES**

*N/A The subject pools do not include beach and sloping entries.*

**809.6 STEPS AND SLOPING ENTRIES**

*N/A The subject pools do not include step and sloping entries.*

**809.8 ARCHITECTURAL FEATURES**

*N/A The subject pools do not include architectural features.*

**809.9 MAXIMUM DEPTH**

The horizontal surface of underwater seats, benches and swimouts shall be not greater than 20 inches (508 mm) below the design waterline.

*The subject pools meet this criteria.*

**810.1 TURNOVER RATE**

The circulation system equipment shall be sized to provide a turnover of the pool water not less than once every 12 hours. The system shall be designed to provide the required turnover rate based upon the manufacturer's specified flow rate of the filter, with clean media condition of the filter.

*The subject pools provide a turnover of the pool water not less than once every 4 hours.*

**810.2 STRAINER REQUIRED**

Pressure filter systems shall be provided with a strainer located between the pool and the circulation pump.

*The subject pools provide a strainer located between the pool and the circulation pump.*

**811.1 ROPE AND FLOAT**

*N/A The subject pools do not have a break in the floor slope.*

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REV	DATE	DESCRIPTION	BY

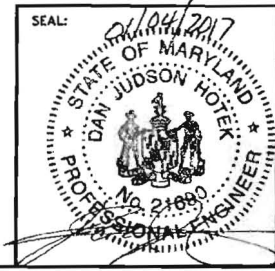
DATE	DESCRIPTION

RIVER FIBERGLASS POOLS  
 TYPICAL NOTES AND DETAILS

RIVER POOLS AND SPAS  
 106 Southtown Road, Warrenton, VA 22672  
 800-333-7865 804-333-9187 (fax)

**1 CODE ANALYSIS**  
 Scale: NO SCALE

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RIVER POOLS USA  
 NOTES AND DETAILS  
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