

| TABLE OF MODELS  |                |                |                |           |           |
|------------------|----------------|----------------|----------------|-----------|-----------|
| MODEL            | LENGTH         | WIDTH          | MAX. DEPTH     | CAPACITY  | POOL TYPE |
|                  | (feet/inches ) | (feet/inches ) | (feet/inches ) | (gallons) |           |
| Belize           | 29'            | 14'            | 6'             | 10,000    | O         |
| Brasilia         | 30'            | 14'            | 6'             | 10,000    | O         |
| Cali Cove        | 23'            | 12'            | 5'             | 7,000     | O         |
| Colombian        | 27'            | 12'            | 5'-4"          | 8,000     | O         |
| Colombian Beach  | 32'            | 12'            | 5'-4"          | 9,000     | O         |
| Colombian Cove   | 27'            | 12'            | 5'-4"          | 7,500     | O         |
| Colombian Resort | 33'            | 12'            | 5'-5"          | 8,500     | O         |
| Costa Beach      | 27'            | 12'            | 5'-6"          | 7,000     | O         |
| Costa Rica       | 25'            | 12'            | 5'-6"          | 7,000     | O         |
| Cumba Spa        | 8'             | 8"             | 3'-7"          | 800       | O         |
| Macaw            | 20'            | 10'            | 5'             | 4,500     | O         |
| Natal Tan Ledge  | 8'             | 8'             | 10"            | 250       | O         |
| Neblina Beach    | 20"            | 12'            | 5'             | 7,000     | O         |
| Neblina Grande   | 16'            | 8'             | 5'             | 3,500     | O         |
| Neblina Spa      | 10'            | 8'             | 3'-6"          | 950       | O         |
| Quatro Spa       | 8'             | 8'             | 3'-6"          | 800       | O         |
| Rio Tan Ledge    | 10'            | 8'             | 10"            | 400       | O         |
| Roatan           | 14'            | 30'            | 5'-11"         | 10,000    | O         |
| Roatan Beach     | 14'            | 35'            | 5'-11"         | 10,000    | O         |
| Tabacon Spa      | 7'-4"          | 7'             | 3'             | 600       | O         |

For SI: 1 foot = 304.8 mm, 1 inch = 25.4 mm, 1 gallon = 3.785 liters.



RAINFOREST POOLS –N- COMPOSITES  
263 Hunt Park Cove  
Longwood, FL  
386.277.2202

**Compliance with the following codes:**

2024, 2021, 2018, 2015, 2012 and 2009 *International Building Code*® (IBC)  
2024, 2021, 2018, 2015, 2012 and 2009 *International Residential Code*® (IRC)  
2024, 2021, 2018, 2015 *International Swimming Pool and Spa Code*® (ISPSC)  
2025, 2022, 2019, 2016, 2013 and 2010 *California Building Code*® (CMC)  
2025, 2022, 2019, 2016, 2013 and 2010 *California Residential Code*® (CRC)  
2024, 2021, 2018, 2015, 2012 and 2009 *Uniform Swimming Pool, Spa and Hot Tub Code (USPSHC)*\*  
2023, 2020 and 2017 Florida Building Code® (FBC)  
2023, 2020 and 2017 Florida Residential Code® (FRC)  
*\*Copyrighted publication of the International Association of Plumbing and Mechanical Officials.*

**Compliance with the following standards:**

APSP/ANSI/ICC 5-2011, Standard for Residential Inground Swimming Pools  
IAPMO Z124.7-2013 (R2018), Prefabricated Plastic Spa Shells  
AC 274, ICC-ES Acceptance Criteria for In-ground, Residential, Fiber-reinforced Plastic Swimming Pools and Permanently Installed Plastic Spas, dated December 2006 (editorially revised July 2017)

**Identification:**

The pool or spa shells are identified by an encoded number on or near the underside of the flange on the outside the pool. This encoded number contains the information for the manufacturer’s name, the model designation, a serial number and the ICC-ES PMG listing.

A permanent sign, bearing the following statement, must be attached to the pumping equipment: Notice: The pool or spa shell is designed to remain full of water at all times. The shell may be damaged if the water level is allowed to drop below the skimmer. When appreciable draw-down is noticed or if it becomes necessary to drain the pool, contact Rainforest Pools-N-Composites LLC for instructions. A permanent label must be attached adjacent to the above sign indicating the manufacturer’s name, distributor’s name, address and telephone number and the ICC-ES PMG listing mark.

**Installation:**

The pool or spa shells must be permanently installed in-ground in accordance with this report and the manufacturer’s published installation instructions. All plumbing and electrical installations must comply with the applicable codes in effect at the construction site. Subject to the code official’s approval, the pool or spa shell may be installed without a soil investigation by a registered design professional, unless any of the following conditions is encountered at the site:

1. The existence of an uncompacted fill in contact with any portion of the pool shell.
2. The existence of any expansive-type soils unless the pool manufacturer has provided specific instructions regarding expansive soils within their installation instructions.
3. The existence of any soil types with an angle of repose that will not support the walls of the excavation at desired slopes.
4. Danger to adjacent structures posed by the proposed pool location.

If any of the above conditions is encountered, excavation must cease immediately. The site conditions must then be reviewed, and recommendations made, by a registered design professional. The code official must approve the registered design professional’s report before work is resumed.

Details specifically for installations in expansive, clay, or adobe soils apply only when supported by the registered design professional’s recommendations and approved by the code official.

**Installation continued:**

The pool excavation profile must coincide with the contours of the pool. The over excavation is approximately 6 to 12 inches (152 to 305 mm) on the sides and ends. The over excavation at the pool bottom is approximately 6 inches (152 mm). The base for the pool is a layer of minimum 3-inch-thick (76 mm) ¼ to 1 ½ inch clean chipped stone with no fines matching the pool profile. This chipped stone layer is compacted using a manual tamper or plate compactor. The pool shell must sit firmly on the chipped stone and be within 1 inch (25.4 mm) of level. Simultaneous waterfill and chipped stone backfill operations then commence. The chipped stone is compacted with a tamper. The installer must ensure that the backfill level and water level are approximately the same throughout the filling procedure.

After completion of the backfill, the bond beam and decking must be installed in accordance with the manufacturer’s published installation instructions, and as approved by the code official.

**Models:**

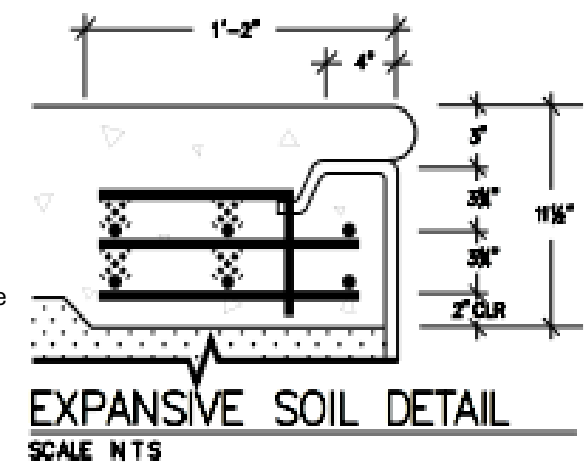
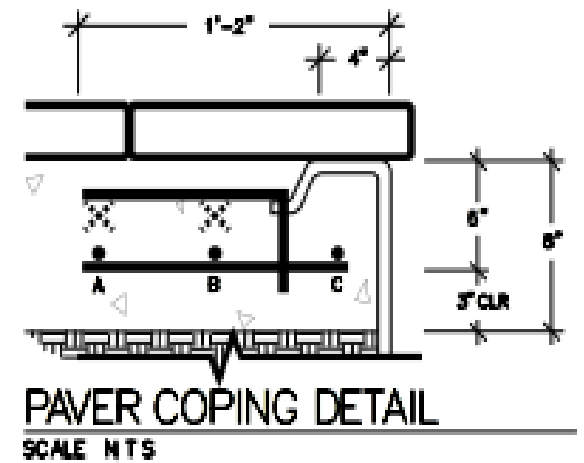
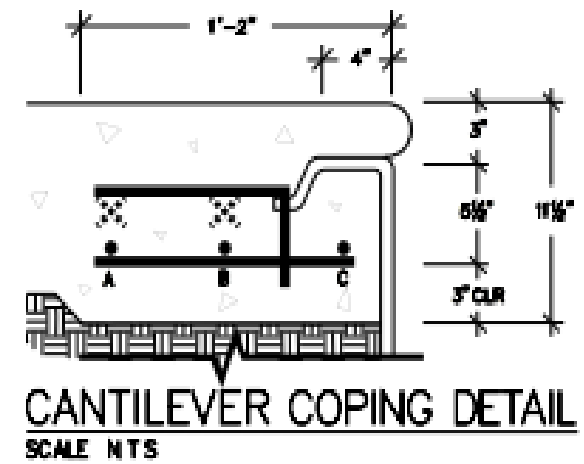
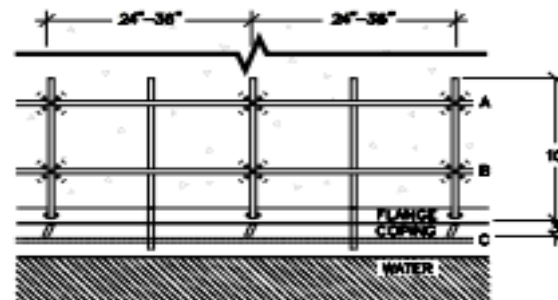
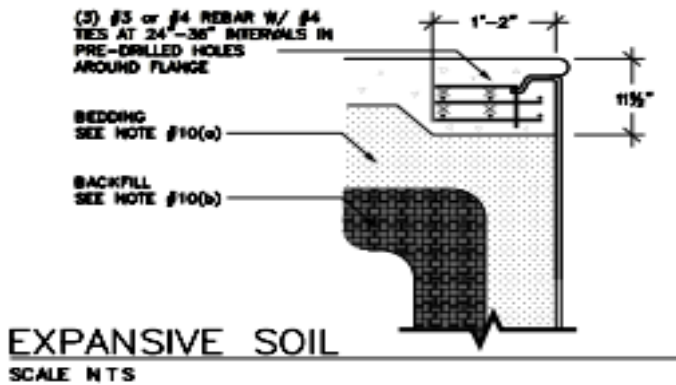
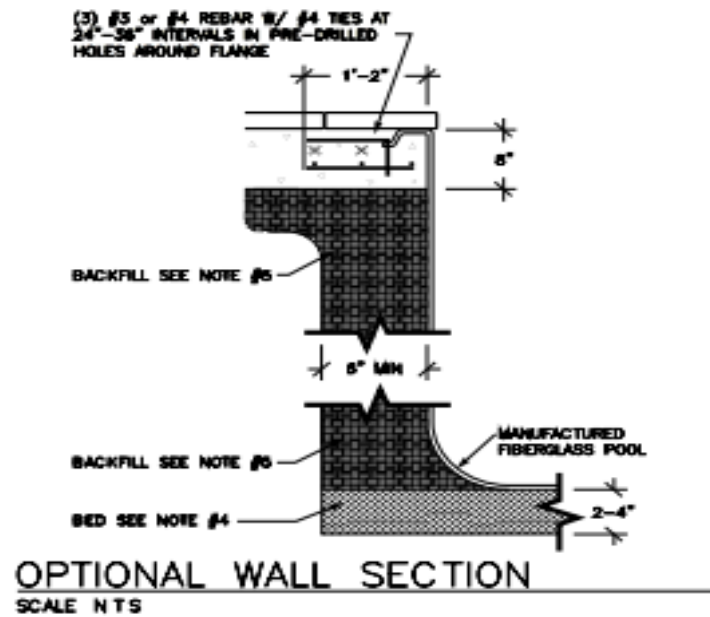
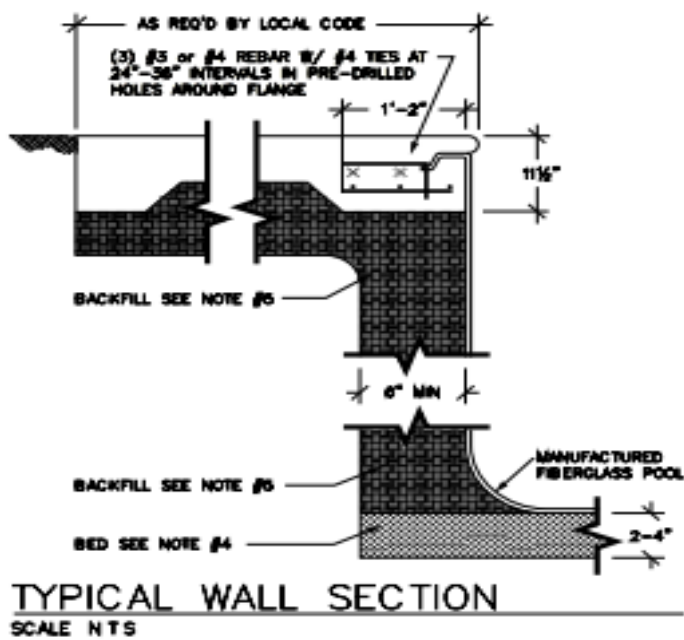
The fiberglass pool or spa shells are permanently installed in-ground and are intended for recreational use as swimming pools in residential applications with water circulated through a filter in a closed system. The pools comply with ANSI/NSPI APSP/ANSI-5 as Type O pools. The fiberglass pool or spa shells consist of one-piece fiberglass construction shop-formed over a mold. The material is minimum 1/4-inch-thick (6.35 mm), fiberglass-reinforced plastic (FRP), composed of unsaturated polyester marine grade gel coat, vinyl ester resin barrier coat, chopped and hand applied fiberglass roving. The surface finish is a 30 mil marine grade unsaturated polyester resin–based gel coat.

Notice: The pool shells are designed to remain full of water at all times. The shell may be damaged if the water level is allowed to drop below the skimmer. When appreciable draw-down is noticed or if it becomes necessary to drain the pool, Rainforest Pools-N-Composites LLC should be contacted for instructions.

**Conditions of Listing:**

The pool and spa shells described in this report comply with, or are suitable alternatives to what is specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

1. The pool or spa shells must be constructed and installed in accordance with this report and the manufacturer’s published installation instructions. In the event of conflict, this report governs.
2. Electrical and plumbing installations must comply with the applicable codes in effect at the construction site at the time of construction.
3. Clearances of the pools from slopes set forth in IBC Section 1808.7, CBC Section 1808.7, CRC Section R403.1.7 or IRC Section R403.1.7 must be observed.
4. A barrier must be installed in accordance with IBC Section 3109, ISPSC Section 305, CRC Section AG105 or IRC Section AG105, as applicable.
5. Slip resistance is outside the scope of this evaluation report. Reports of slip resistance tests that demonstrate compliance with Section 8.1 of ANSI/NSPI APSP/ANSI-5 must be submitted for approval by the code official.
6. Pools which are classified as Type O pools are not intended for use with diving boards or other diving equipment.
7. Pools located in flood hazard areas established in accordance with Table R301.2(1) of the IRC must comply with Sections AG101.2 and AG103.3 of the IRC, Section AG101.2 of the CRC or Section 304 of the ISPSC.
8. Suction outlets must be designed and installed in accordance with IBC Section 3109.5, CBC Section 3137B, CRC Section AG106, ISPSC Section 310 and IRC Section AG106.1, if used.
9. The fiberglass pool or spa shells are manufactured under a quality control program with surveillance inspections annually by ICC-ES.



## NOTES

- The fiberglass pool shell be manufactured by Rainforest Pools N Composites, Inc and installed by a qualified and licensed pool contractor
- Pool shall conform to requirements as shown in design criteria
- The pool shell may be damaged if the pool water is dropped below normal operating level. Consult the manufacturer prior to emptying the pool shell
- Pool shall be placed on compacted 2-4" thick bed of sand, 1/8" - 1/2" pea gravel, lime chip or other non-abrasive compactable material. Bed shall be placed on undisturbed soil with a minimum bearing capacity of 1,500psi.
- Walls shall be backfilled with sand, 1/8" - 3/4" pea gravel, lime chip or other non-abrasive compactable material. Backfill shall be installed in 1' lifts. Maintain water and backfill level within 1' of each other.
- Steps or ladders shall be provided per local code.
- Installation contractor shall provide pool deck and pool barriers as required by local code.
- All reinforcing steels shall have a minimum yield strength of 60,000 psi and shall be bonded to grounding grid with approved UL listed connectors and #8 solid copper wire.

## CANTILEVER/TYPICAL

- The 1'-2" wide coping shall be 11 1/2" thick with two layers of [3] #3 or #4 rebar with #4 ties at 24"-36" intervals in pre-drilled holes around flange extending 3' from waters- edge and bonded to bonding grid with #8 solid copper 3,000psi concrete min.
- Concrete shall be min. 3,000psi at 28 days

PAVER (a). The 1'-2" wide coping shall be 8" thick with one layer of [3] #3 or #4 rebar with #4 ties at 24"-36" intervals in pre-drilled holes around flange extending 3' from waters- edge and bonded to bonding grid with #8 solid copper 3,000psi concrete min.

- Concrete shall be min. 3,000psi at 28 days
- Tile adhesive to be used to secure tile to beam

## TOP-DOWN VIEW

- X on drawing denotes mandatory steel wire tie location

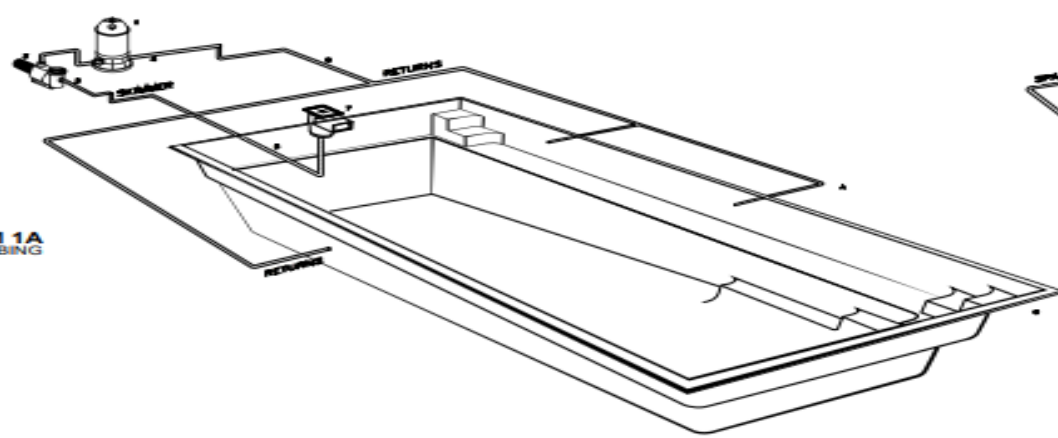
## EXPANSIVE SOIL:

- Provide a 8" thick bedding layer of non-cohesive permeable material.
- Provide a 8" thick backfill layer of sand, 1/8" - 3/4" pea gravel, lime chip or other non-abrasive compacted material
- The 1'-2" wide coping shall be 11 1/2" thick with two layers of (3)#3 rebar with #4 ties at 2' intervals in pre-drilled holes around flange extending 3' from waters-edge and bonded to bonding grid with #8 solid copper 3,000psi concrete min.
- Provide flexible couplings to plumbing

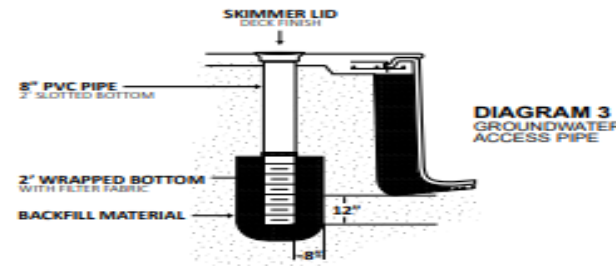
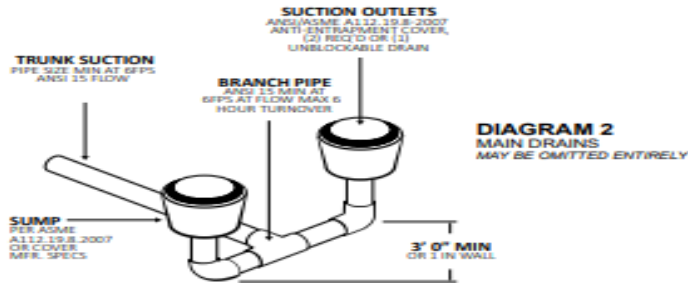
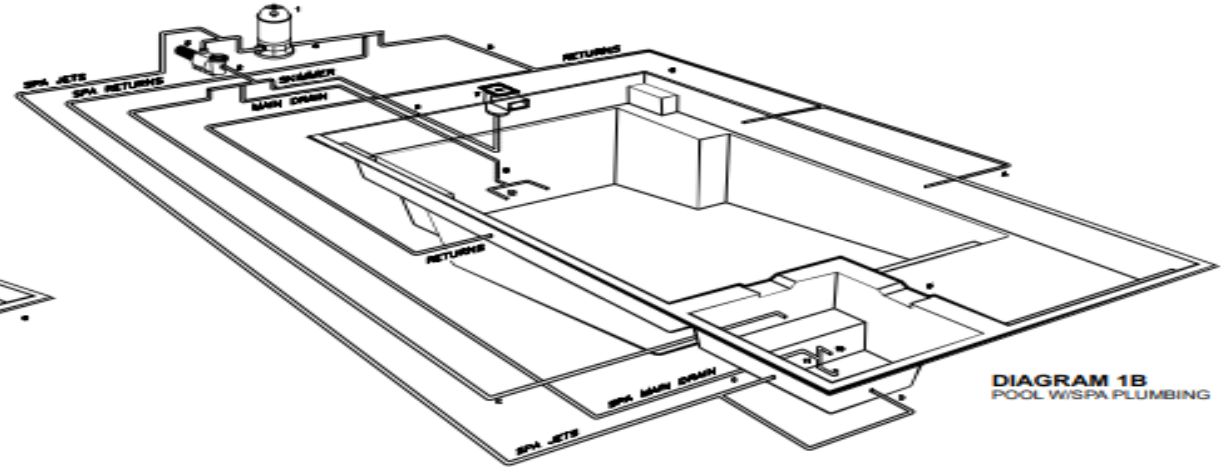


RAINFOREST POOLS -N- COMPOSITES  
263 Hunt Park Cove  
Longwood, FL  
386.277.2202

**DIAGRAM 1A**  
POOL PLUMBING



**DIAGRAM 1B**  
POOL W/SPA PLUMBING



NOTES: This plan is a schematic and piping shall be connected to provide a functioning system. Pool piping shall hold a static water or air pressure not less than 35 psi for 15 minutes, per R4501.12.1

Pools shall have pumps selected to provide minimum 12hr turnover and maximum 6 hour turnover

Determine pipe sizing from chart [SEE RIGHT]

The dual main drains shall have a minimum separation of 3ft, unless one is located on the vertical wall or a single unblockable drain is used

All suction covers shall meet ANSI/ASME A112.19.8-2007

All piping shall be NSF-PW approved and meet the requirements of Local Building Code

Electrical equipment, wiring and

installation shall conform to the National Electrical Code Bonding of pool steel and light to footing steel shall be continued to and include all pumps and heaters.

Temporary fencing shall be installed and maintained until permanent child safety features are installed

There shall be a passing electrical and child safety final inspection prior to filling the pool or spa with water

Pool shall meet the applicable criteria in ANSI/APSP 3,4,5,6,7 and 15 standards

A. Recirculation return split ANSI 15 flow at 8fps

B. Main drain ANSI 15 flow at 6fps

D. Spa suction ANSI 5 flow at 8fps

E. Spa jet supply (aux.) ANSI 5 flow at 8fps

F. Spa supply (aux.) ANSI 5 flow at 8fps

1. Minimum filter size at ANSI 15 flow

2. [4] pipe diameter minimum straight pipe sized by ANSI 15 flow at 6fps

3. Pump sized by ansi 15 selected from apsp listing at ANSI 15 filtration flow (at low speed)

4. Minimum 18" straight (horizontal or vertical) for future solar prior to heater

5. Recirculation returns minimum size ANSI 15 flow at 8fps

6. Skimmer suction minimum size ANSI 15 flow at 6fps

7. Surface skimmer (a). [1] Minimum per 800sqft

(b). Suction minimum size ANSI 15 flow at 6fps

(c). May be omitted if

negative edge or other weir details showing ANSI 7 & 15 and used

8. #8 AWG solid copper bond wire around pool/spa 4"-6" below sub ce.

grade 18"-24" from shell and bonded at [4] points minimum to pool per alternative means

680.26(B)(2)(b) NEC

9. If no weir overflow to pool a skimmer must be used in spa

10. Suction outlets ANSI 7 flow size ANSI 15 flow at 6 fps

11. Drain branch piping minimum size ANSI 15 flow at 6fps [DIAGRAM 2]

13. Drain branch minimum size ANSI 15 flow at 6fps [DIAGRAM 2] Regardless of the criteria here, the project shall comply with all sections of the BC 6th Edition – Residential, Building, Mechanical, Plumbing and Gas Codes, as applicable respectively and amended. See information attached to the attached to this permit package for site specific

**PIPE FLOW AT  
GIVEN VELOCITY (GPM)**

| PIPE | 6FPS | 8FPS |
|------|------|------|
| 1"   | 16   | 22   |
| 1½"  | 38   | 51   |
| 2"   | 63   | 84   |
| 2½"  | 90   | 119  |
| 3"   | 138  | 184  |
| 4"   | 238  | 317  |
| 6"   | 540  | 720  |

"ANSI 7 FLOW"  
DETERMINED BY TDH METHOD  
"ANSI 15 FILTRATION FLOW"  
6HR TURNOVER, MIN. 36GPM  
"ANSI 15 AUXILIARY FLOW"  
GREATER OF SPA JET OR  
OTHER FEATURE FLOW  
"ANSI 5 FLOW"  
12HR TURNOVER OR OTHER  
"ESTIMATED/DESIGN" FLOW