

TOWN OF JUPITER BUILDING DEPARTMENT FIELD INSPECTION SERVICES

Friday December 3, 2010

SWIMMING POOL AND SPA INSPECTIONS REQUIRED BEFORE FILLING POOL

Front End Inspection

Install pool steel, properly tied and supported per plan.

Install main drain and under pool plumbing including well point in main drain when shown on plan.

Install piping in spa walls

Pressurize piping to a minimum of 35 psi for schedule-40 pipe and a minimum of 25 psi for flex piping in spa wall.

Install a minimum of 4 bonding tails from the pool steel for later connection to the perimeter equipotential deck bond

Bond all light niches

Building permit code-605 Building Steel, Rebar and Reinforcing Inspection

Plumbing permit code-623 Main drain and spa wall piping Inspection

There is no separate inspection code for the bonding of the pool steel and none is required.

Backfill and Compaction

Backfill and compact the soil around the pool shell in 1 foot lifts and call for a compaction inspection.

The Town of Jupiter does its own compaction inspection and does not require a signed and sealed compaction engineering report unless specifically requested by the inspector bases on site conditions.

Building permit code-609 Compaction Inspection

Perimeter Piping

An approved compaction inspection is required before the contractor may begin the installation of the perimeter piping. The perimeter piping shall include the electrical conduit for the pool lights and one #8 solid bond wire from the pool steel back to the pool equipment location. The pool light conduit and bond wire are inspected as a part of the perimeter piping inspection and no additional electrical inspection is required for the conduit. Pressurize plumbing to a minimum of 35 psi.

Plumbing permit code-621 Perimeter Piping Inspection

Pool Deck and Equipotential Bonding of Pool.

Backfill perimeter piping and bring deck area to sub grade.

Install #8 bare solid copper wire around the perimeter of the pool and spa. Lay the bond wire directly on the subgrade. Connect the perimeter bond wire to the 4 bond tails that were attached to the pool shell using a copper split bolt or other electrical connector approved for direct burial installation.

With a paver deck the approximately 2 inches of sand and the 2 inches of pavers will provide the correct cover.

With a concrete deck the copper bond wire will become incased in the concrete.

Where the surface is unpaved, such as grass, mulch etc, the bond wire is to be installed in a trench 4 to 6 inches below the sub grade.

Do not bury the copper bond wire as it must be exposed for inspection.

Each ladder and handrail socket is to be bonded. Attach a copper screw-lug to the bronze socket and insert the bond wire into the screw-lug and tighten. Do not attempt to attach the bond wire directly to the socket. This attachment point is not listed for the direct attachment of a #8 solid wire.

The equipotential bonding inspection is listed as a building inspection and is not listed as an electrical inspection.

Building permit code-611 Pool Deck Inspection. This code is also used for pool deck footer steel and slab inspections.

Wet Niche Bonding and Potting Compound

Strip back the insulation on the bond wire in the wet niche no more than 1/2 inch and insert the wire into the screw-lug and tighten.

Using only a listed and labeled potting compound, such as 3M Scotchcast 2135 or Aqua-Bond AB-1000, encapsulate the entire screw-lug and the exposed copper wire within the wet niche.

Products such as epoxy, liquid nails, silicone caulking, tar, Polyseamseal, etc are not listed and labeled for this use.

Link to Aqua Bond AB-1000 <http://www.aquabond.com/s.nl/it.A/id.9/.f>

Electrical permit code-615 Wet Niche Inspection

Pool Barriers

Install all pool safety barriers including kiddie fences, permanent fencing, approved window and door alarms, screen enclosures, etc.

All windows and doors within 5 feet horizontally and 5 feet vertically of the waters edge shall have glazing of tempered glass or impact rated glass. Where insulated impact rated glazing is used the impact rated pane must be on the exterior and the regular pane on the inside.

Install contrasting tile on all deep water benches and swim outs and other areas shown on plans.

Building Permit code-607 Barrier Inspection

Pool Plumbing Final

Install all pumps, filters, heaters, and other pool equipment and connect all piping. All pool equipment is to be fastened in place using Tapcons and in accordance with the manufacturers installation instructions. Install the Pressure Relief Valve (PRV) on gas pool heaters. All piping is to be labeled with weatherproof peel and stick labels. No Majic Marker or Dymo labels are allowed. Equipment operation and leakage testing is done with the final building inspection.

Plumbing permit code-625 Plumbing Final Inspection

Electrical and Bonding Final

All pool equipment is connected and wiring is completed in all control and circuit breaker panels. All circuit breakers are labeled. All equipment is bonded. Screen enclosures, fences, window and door frames and other metal 5 feet horizontally and 12 feet vertically from the waters edge is bonded to the pool equipment with a #8 solid copper bonding wire. Equipment will be run tested at the final pool inspection.

Electrical permit code-617 Electric Final and Bonding Inspection

**ALL OF THE ABOVE INSPECTIONS MUST BE
APPROVED BEFORE**

PLASTERING AND FILLING THE POOL WITH WATER.

Pool Final Inspection

Pool is filled and all equipment is operational. Main drain covers are installed using all required screws. All pool safety barriers remain in place and operational. All nozzles and pool side controls are installed. The Vac-Lok is installed. There are no plumbing leaks. Handrails and ladders are securely fastened in place.