

Mecklenburg County Public Health Swimming Pool Construction Checklist

Pool Plan Review Items

- Building, Electrical, Mechanical, Plumbing tied to swimming pool projects must pass final inspection before a final will be scheduled.
- Provide a final stamped set of plans/drawings for review during final including all changes from original plan approval and as-builts.
- Provide engineer/architect letter. Any changes to approved plans must be noted on letter. **“A statement signed by a registered design professional stating that construction is complete and in accordance with approved plans and specifications and approved modifications. Observation of construction and a final inspection for design compliance by the certifying registered design professional or his representative are required for this statement.”**
- Provide address verification form. Form can be found on the Code Enforcement website at charmck.org or click [here](#).
- Provide an accurate Pool Drain Safety Compliance form. Form can be found on our website at meckpools.charmck.org. Features will require a separate form.

Pool Structure Items

- Skimmers* – NSF listed. All weirs in place and covers/baskets in good repair. Suction to pump will be verified in skimmers. Number of skimmers matches plan.
- Depth and No Diving Markers* – 4” in height for numbers and letters. Markers shall be no greater than 25’ apart measured along the perimeter of pool. Easily readable/contrasting. Depth markers must be located on pool wall and deck. Feet or ft. Inches is not permitted. No Diving only required on pool deck. If using international No Diving marker, must be at least 6”x6” and red and black.
- Inlets and Fittings* – Must be in good repair and in place. Meets required amount per plans. Returns must be operable.
- Pool Steps* – Maximum of 12” rise. Shall be within 1” of uniform step except for bottom step which may vary plus or minus 2”.
- Contrasting Color Bands* – 2” wide contrasting color band to edge of step or 2” x 2” tile no greater than 1” from step edge, adjacent edge, and pool walls.
- Underwater Benches* – Installed in water no greater than 4’ deep. Max seat depth of 2’ from water surface and no more than 18” from wall.
- Ladders and Handrails* – Located every 75’ or less measured perimeter of pool. Ladder rungs between 3” and 6” from the pool wall. Handrails on steps must be provided every 10’ if steps are greater than 20’ wide. If a saltwater pool, handrails shall be marine grade.
- Suction Outlets* – Drain covers must be secure, intact and in good repair. Screws shall be in place and visible. Covers shall meet VGB requirements – APSP standards. Must be able to handle max flow from the pump. No protrusions greater than 2” from pool wall. Drain covers must match submitted PDSC form. No equalizers installed at pool and plugged per State recommendations.
- Field Built Sumps/Manufactured Sumps* – Field built sumps will require engineer certification. If manufactured sump, provide mfg. cut sheet showing compatibility with drain cover and sump dimensions.
- Vacuum Fittings* – Vacuum ports must have a self-closing cap designed to be opened with a tool. Located at least 6”, no greater than 18” below water level.
- Pool Depth* – Must match depth markers on wall and plan. Measured with measuring pole.
- Pool Plaster* – Light reflectance must reflect >50% of light. If plaster differs from original plan approval, provide light reflectance value (LRV).

Pool Premises and Safety

- *Emergency Phone* – Provide a designated line. Must connect to 911. 911 must have the correct location information and phone number for the pool. A sign posted with dialing instructions, pool address and phone number located at emergency phone. Posted phone number shall audibly ring the emergency phone or phone shall automatically answer once number dialed. Located inside the pool enclosure or outside the enclosure within 75' of a bather entrance. Visible from all areas of pool deck. If not visible, provide additional signage.
- USCG Approved Ring Buoy. Required rope length is 1.5 x width of the pool or 50', whichever is less. Will be measured during inspection. Requires two sets if pool is >3000 sq. ft
- Body hook on a non-collapsible pole. Minimum of 12' in length. Body hook must be securely attached to pole. Requires two sets if pool is >3000 sq. ft.
- *Signage* –
 - “WARNING – NO LIFEGUARD ON DUTY” in a minimum height of 4” – exact wording required. Assure lower case letters, if used, are 4”.
 - “ADULTS SHOULD NOT SWIM ALONE” in a minimum height of 1” – exact wording required. Assure lower case letters, if used, are 1”.
 - “CHILDREN SHOULD NOT USE THE SWIMMING POOL WITHOUT ADULT SUPERVISION” in a minimum height of 1” – exact wording required. Assure lower case letters, if used, are 1”.
 - Sign prohibiting pets and glass in pool area – no size or language restriction.
 - Shower sign instructing users to shower before entering pool – no size or language restriction.
- *Barrier* – See Rule .2528.
 - Gates must be self-closing, self-latching and swing away from the swimming pool.
 - All doors on to pool deck must be self-closing, self-latching or self-closing with audible alarm. No door handle height.
 - No greater than 4” between vertical pickets.
 - No greater than 2” under fence measured from ground.
 - Maintain 45” between bottom horizontal to next horizontal.
 - Footholds – Anything outside the fence lower than 45” measured from the ground that protrudes more than ½”. Eliminate all footholds (i.e. electrical conduit boxes, cable boxes, windowsills, brick coping, etc.).
 - Windows opening on to pool deck – Must not open greater than 4”. Permanently affixed or equipped with an audible alarm.
 - Barrier with minimum 48” height requirement.
 - Gate Latches – Regardless of Construction Date
 - 54” measured from ground to bottom of latch;
 - If self-latching device is less than 54”, the latch shall be located on the inside of the gate at least 3” below the top of the gate with no greater than ½” within 18” of the latch mechanism (mesh – ½” x ½” or less required); or
 - Use of combination or card reader. No height requirement for electronic systems.
- *Deck* – No protrusions or offsets greater than ½”.
 - Over the rim fill spouts - No greater than 6” from ladder handrails or diving boards.
 - Outdoor – 6' clear walking space. Pools >1600 sq. ft., provide 8'.
 - Indoor – 5' clear walking space.
 - Deck installed per plan approval. If varies, address by engineer through deck detail and engineer letter. Deck shall be impervious surface per plan approval. Pavers may require polymeric sand in some instances.
 - Sloped to drain and slip-resistant.
- *Lighting* – Pools that operate at night must have sufficient lighting present to illuminate the main drains and interior of the swimming pool. All areas of the pool deck are clearly visible. Lighting fixtures are provided so that all parts of the pool including, water, depth markers, signs, entrances, safety equipment, required decking, restrooms, etc. are clearly visible.

Equipment Room – All items in pump room should match the approved plan.

- Chemical Feeders* – NSF listed and in good working order. Flow meter installed per mfg. instructions, if required. Verify that what installed matches plan. Automated system must detect flow of pump and turn off with no flow.
- Pump* – NSF listed. Sized properly for applicable turnover and according to plan.
- Filter* – Installed per plan approval. Pressure gauge operable and shows pressure reading.
- Flow Meter* – Installed according to manufacturer instructions. Must be operating properly and be capable of measuring at least 1 ½ times the design flow rate. Flow reading must meet the required flow for turnover. Required flow is on plan approval. Verified onsite after filter is backwashed.
- Fill Line* – Installed after check valve. Check valve must meet rule .2512 in accordance with ANSI/ASSE. Autofill operational. Typically, ASSE 1013 check valve.
- Floor sloped to drain. ¼” per foot toward drains.
- Provide 3’ clear walking space around equipment and minimum of 7’ ceiling height around equipment.
- Continuous ventilation separate from lighting or cross-ventilation. May require fresh air intake per mechanical code/approved plan.
- Provide lighting.
- Hose bib with backflow prevention present.

Chemical Storage Room

- 7’ ceiling height.
- Storage space must meet minimum requirements per swimming pool plan (5 sq. ft for first 10,000 gallons, additional 1 sq. ft for each additional 3,000 gallons).
- Continuous ventilation separate from lighting or cross ventilation. May require fresh air intake per mechanical code/approved plan.
- Provide lighting.
- Shelving provided for dry storage (i.e. pallet, shelves, etc.).

Dressing and Sanitary Facilities

- Toilets and lavatories installed per approved plans. Required number of fixtures.
- Mirrors shatterproof or equipped with safety backing tape. If using safety backing tape, provide signed letter from installer indicating project, what was used, what mirrors have backing tape and where installed.
- Hose bib with backflow prevention present.
- Floor sloped to drain, drain present, and slip resistant.
- Shower installed and operational.
- Hot water no greater than 110 F.

Note: Any changes from the original approved plan (including any equipment changes) should be submitted to Environmental Health and approved prior to scheduling a construction final inspection. Please contact our Department in advance for approval and to submit any additional required paperwork. Changes that are not pre-approved may result in a \$250 in-field plan review fee and a potential delay in final construction approval.

This list is generalized and may not cover all variations specific to your swimming pool. If you have any questions prior to your inspection, please consult the NC Public Swimming Pool Rules or an inspector. The rules, this form and other information pertaining to pools may be found at: <http://meckpools.charmeck.org>.