

Mission:

To protect, promote, and improve the health of all people in Florida through integrated state, county, and community efforts.



Ron DeSantis
Governor

Joseph A. Ladapo, MD, PhD
State Surgeon General

Vision: To be the Healthiest State in the Nation

July 19, 2024

Facility Name:	Courtyard Marriot, Lake City FL		
Facility Address:	3004 W US HWY 90 – Lake City, FL 32055		
Applicant Name:	Oasis Lake City, LLC Manish Patel		
Applicant Address:	404 NW Hall of Fame Dr. – Lake City, FL 32005		
Public Pool Permit Application received on:	7/11/2024	Pool <input checked="" type="checkbox"/>	Spa <input type="checkbox"/> IWF <input type="checkbox"/> Other <input type="checkbox"/>

RE: Public Pool Plans Compliance with Critical Health and Safety checklist

Dear Applicant:

Review of the submitted operation permit application revealed: **Compliance, provided the items listed below are addressed ☒**, Non-Compliance ☐, with the following items included in the enclosed Critical Health and Safety checklist (see attached):

Please see enclosed checklist, all items marked N and highlighted must be addressed or corrected to pass final DOH construction operation permit inspection.

Any changes to application and/or plans made after they are deemed compliant by the Florida Department of Health and approved by the jurisdictional building department will require submittal of the revised plans and application for approval by both Departments.

At least two weeks prior to the estimated date that the pool will be ready for the construction inspection, the pool contractor must contact the DOH-Regional contact at DOHPoolTeam@flhealth.gov to schedule the initial inspection. Prior to issuing your operating permit, the local county Health Department will require:

1. A set of plans and specifications as approved for construction by the local building authority as well as a copy of DH 4159 and DH 4157 for each body of water.
2. A copy of the final inspection from the local building authority as defined in Section 553.79(11), Florida Statutes.
3. The annual operating permit fee.

Any Critical Health and Safety Code inconsistencies found at the time of final inspection will prevent issuance of operating permit by the Florida Department of Health. Thank you for your cooperation in this matter. Please contact our team at DOHPoolTeam@flhealth.gov with any questions you may have.

Sincerely,

Christopher Robbins

Environmental Consultant

Bureau of Environmental Health, Water Programs

cc: DOHPoolTeam@flhealth.gov; Terrance.Marsh@flhealth.gov; Bob.Vincent@flhealth.gov; adam.flanery@flhealth.gov; Christopher.robbins@flhealth.gov; Sean.Havens@flhealth.gov; Paul.Muller@flhealth.gov; Sallie.Ford@flhealth.gov; drpatel@primarycaremedic.com;

Florida Department of Health

Division of Disease Control and Health Protection
Bureau of Environmental Public Health
4052 Bald Cypress Way, Bin A-08 • Tallahassee, FL 32399
PHONE: 850-245-4250 • FAX: 850-487-0864

FloridaHealth.gov



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Public Health Accreditation Board

PLANS REVIEW CHECKLIST – PUBLIC SWIMMING POOL –DOH / BOAF version 7th Edition. Effective 6.11.2023 (update)

Project:	Courtyard Marriot in Lake City Pool	County:	Columbia	Date:	7/19/2024
Permit #:			Original <input checked="" type="checkbox"/>	Revision <input type="checkbox"/>	Modification <input type="checkbox"/>
Engineer:	John McDowell – McDowell Eng.	Reviewed by:	T. Marsh, S. Sombutmai, A. Flanery, &/or C. Robbins		

Items needing correction or clarification are marked by an "N" beside the appropriate section number of the Florida Administrative Code citation (Current 64E-9, FAC, or current FBC 454.1). We have left the 64E-9 requirements in this checklist because they are critical for public health and therefore the pool will be checked for these items by the County Health Department at the first operating permit inspection after the Building Official's approval of the construction.

COMPLIANCE:	FLORIDA BUILDING CODE, FLORIDA STATUTES, OR FLORIDA ADMINISTRATIVE CODE:	DETAILS:
SUBMITTAL REQUIREMENTS		
Y <input checked="" type="checkbox"/> N <input type="checkbox"/> A <input type="checkbox"/>	514.031(1)(a)	Plans review fees received as required by Florida Statute 514.031(1)(a)
Y <input checked="" type="checkbox"/> N <input type="checkbox"/> A <input type="checkbox"/>	514.031(1)(a)	A current version of application (DH 4159) for approval of swimming pool plans received.
Y <input checked="" type="checkbox"/> N <input type="checkbox"/> A <input type="checkbox"/>	514.031(1)(a)	A set of construction plans that include the following: <ol style="list-style-type: none"> 1. A description of the structure, its appurtenances, and its operation. 2. A description of the source or sources of water supply, and the amount and quality of water available and intended to be used. 3. The method and manner of water purification, treatment, disinfection, and heating. 4. The safety equipment and standards to be used. 5. A copy of the final inspection from the local enforcement agency as defined in s. 553.71. 6. Any other pertinent information deemed necessary by the department.
SIZING REQUIREMENTS		
REFERENCE	454.1.1.1	The pools provided at a transient facility shall be able to accommodate one bather per five living units, while the bathing load at a non-transient facility shall be at least one bather per seven living units. Recreational vehicle sites, campsites and boat slips designated for liveaboards shall be considered a transient living unit. For properties with multiple pools, this requirement includes the cumulative total bathing load of all swimming pools, spas, wading pools and interactive water features. The bathing load for conventional swimming pools, wading pools, interactive water features, water activity pools and special purpose pools shall be computed either on the basis of one person per 5 gpm (0.32 L/s) of recirculation flow, or one person per each 20 square feet (1.9 m ²) of surface area, whichever is less. The bathing load for spa type pools shall be based on one person per each 10 square feet (0.9 m ²) of surface area. <u>All other types of projects</u> shall be sized according to the anticipated bathing load and proposed uses. FOR CALCULATION STEPS AND EXAMPLES OF SIZING CALCULATIONS FOR TRANSIENT OR NON-TRANSIENT FACILITIES PLEASE SEE APPENDIX A.
Y <input checked="" type="checkbox"/> N <input type="checkbox"/> A <input type="checkbox"/>	454.1.1.1 Transient	Transient Calculations: # of Living Units / 5 = Minimum Required Bather Load (For All Pools, Spas, Etc. Combined) Required Bather Load x 5 Gallons Per Minute Per Bather = Minimum Required Flowrate (For All Pools, Spas, Etc. Combined) Required Bather Load x 20 sq. ft. Surface Area = Minimum Required Square Footage (For All Pools, Wade & IWF's. Combined) Required Bather Load x 10 sq. ft. Surface Area = Minimum Required Square Footage (For only Spa pools) 136 UNITS ÷ 5 = 28 MINIMUM BATHERS, 140GPM AND 560 SQ.FT. SURFACE AREA REQUIRED, 28 BATHERS, 150GPM AND 578 SQ.FT. PROVIDED
Y <input checked="" type="checkbox"/> N <input type="checkbox"/> A <input type="checkbox"/>	454.1.1.1	Bathing load: The bathing load is computed on the basis of 1 person per each 5 gpm of water recirculated. 150GPM ÷ 5 = 30 BATHERS (28 BATHERS NOTED)
Y <input checked="" type="checkbox"/> N <input type="checkbox"/> A <input type="checkbox"/>	454.1.1.1	Where a pool's turnover rate is calculated to be less than 3 hours, that pool shall comply with Section 454.1.7.9 for automated controllers. 17,200 GALLS ÷ 150GPM ÷ 60 = 1.91 HOURS, SHEET P4, FILTER EQUIPMENT LIST, HAYWARD, MODEL CAT2000 pH/ORP CONTROLLER
CONSTRUCTION STANDARDS		
Y <input checked="" type="checkbox"/> N <input type="checkbox"/> A <input type="checkbox"/>	454.1.2.1	Pools shall be constructed of concrete or other impervious and structurally rigid material. All pools shall be watertight, shall be free from structural cracks and shall have a nontoxic smooth and slip-resistant finish. All materials shall be installed in accordance with

PLANS REVIEW CHECKLIST – PUBLIC SWIMMING POOL –DOH / BOAF version December 31, 2020 (Effective January 1, 2021)

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		manufacturer's specifications unless such specifications violate Chapter 64E-9, Florida Administrative Code, rule requirements or the approval criteria of NSF/ANSI Standard 50 or NSF/ANSI Standard 60. SHEET P2, POOL NOTES #1
Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	454.1.2.1(a)& 454.1.2.4	Floors and walls shall be white or pastel in color and shall have the characteristics of reflecting rather than absorbing light. Pool floors and walls shall be white or light pastel in color and shall have the characteristic of reflecting rather than absorbing light. The interior finish coating floors and walls shall be comprised of a non-pigmented white cementitious binder component together with a sand/aggregate component. The finish coating shall have a dry lightness level (CIE L value) of 80.0 or greater and a wet luminous reflectance value (CIE Y value) of 50.0 or greater, as determined by test results provided by the manufacturer, utilizing testing methodology from American Standard ASTM D4086, ASTM E1477, ASTM E1347. Pools constructed of fiberglass, thermoplastic, or stainless steel shall be subject to the same interior finish color requirements. SHEET P2, POOL NOTES #1
Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	454.1.2.1(a)	Horizontal tile used in less than 5' (1,524 mm) of water must be slip resistant. (FBC Definitions: "Slip resistant" means having a textured surface which is not conducive to slipping under contact of bare feet unlike glazed tile or masonry terrazzo and nontextured plastic materials. Manufactured surface products shall be designated by the manufacturer as suitable for walking surfaces in wet areas.) SHEET P2, POOL NOTES #27
Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	454.1.6.5.3.2.5	A minimum 6" (152 mm) water line tile shall be provided on all pools with automatic skimmer systems, each a minimum size of 1" (25 mm) on all sides. Glazed tile that is smooth and easily cleanable shall be utilized. SHEET P1, BEAM AND WALL DETAIL
ENSURE IF APPLICABLE	454.1.2.1(b)(c)	One-inch (25 mm) square tile may be used if the manufacturer has specified the adhesive for use underwater to adhere the type of tile used [vitreous (glass) or ceramic]. Tiles shall not have sharp edges exposed that could cause bather injury. The grout line is allowed to be included when meeting the 1-inch (25 mm) square tile requirements, if the tile is sold and distributed as nominal or trade size tile.

DIMENSION STANDARDS

Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	454.1.2.2.2	All pool walls shall have a clearance of 15 feet (4,572 mm) perpendicular to the wall (as measured at design water level from gutter lip to gutter lip, or on skimmer pools, from vertical wall to vertical wall). Offset steps, spa coves, spa pools and wading pools are exempt from this clearance requirement. (FBC Definitions: "Offset" means set back into the deck from the normal pool wall perimeter [three sides must be surrounded by pool deck].) NOTE: Where interior steps protrude into the pool resulting in less than 15 feet (4,572 mm) of clearance from any wall, such protrusion shall not exceed 6 feet (1,828 mm) on any perpendicular line from a tangent to any pool wall from which the steps emanate. SHEET P1, POOL PLAN
Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	454.1.2.2.2	The upper part of pool walls in areas 5 feet deep or less shall be within 5 degrees (4,572 mm) vertical for a minimum depth of 2½ feet (762 mm) from which point the wall may join the floor with a maximum radius equal to the difference between the pool depth and 2½ feet. The upper part of pool walls in areas over 5 feet (1,524 mm) deep shall be within 5 degrees vertical for a minimum depth equal to the pool water depth minus 2½ feet (762 mm) from which point the wall may join the floor with a maximum radius of 2½ feet (762 mm). SHEET P1, BEAM AND WALL DETAIL AND SHEET P2, POOL NOTES #1
Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	454.1.2.2.2	Corners shall be a minimum 90-degree angle. ENSURE COMPLIANCE
Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	454.1.2.2.2	The corner intersections of walls which protrude or angle into the pool water area shall be rounded with a minimum radius of 2 inches (51 mm). This radius shall be continued through the top of the gutter edge; chamfering is allowed, and pool coping shall not overhang into the pool more than 1½ inches (38 mm). SHEET P2, POOL NOTES #1
NOTE:	454.1.2.2.3	The radius of curvature between the floor and walls is excluded from the following two requirements (454.1.2.2.3.1 & 454.1.2.2.3.2). Multiple floor levels in pools are prohibited, however, an area meeting all of the requirements of a sun shelf shall not be considered a violation of this requirement.
Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	454.1.2.2.3.1	Floor slope shall be uniform. The floor slope shall be a maximum 1 unit vertical in 10 units horizontal and a minimum of 1 unit vertical in 60 units horizontal in areas 5 feet (1,524 mm) deep or less. SHEET P1, POOL SECTION, (1:14.75)
Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	454.1.2.2.4	Pool water depth is at least 3' (914 mm) in shallow area. SHEET P1, POOL SECTION, SHALLOW AREA = 3'0"
Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	454.1.2.2.4	Pool water depth is at least 4' (1,219 mm) in deep area. SHEET P1, POOL SECTION, DEEP AREA = 5'0"

MARKINGS

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Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	454.1.2.3.1(2)	Permanent depth markings followed by the appropriate full or abbreviated words "FEET," "FT," or "INCHES," "IN," shall be installed in minimum 4" high (102 mm) numbers and letters on a contrasting background. SHEET P1, POOL PLAN, DEPTH MARKER DETAILS AND POOL PLAN KEY NOTES #1 thru #4
Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	454.1.2.3.1(2)	Depth markers shall indicate actual depth within 3" (76 mm). *Measured at normal operating water level when measured 3' (914 m ³) from the pool wall. SHEET P1, POOL PLAN, DEPTH MARKER DETAILS AND POOL PLAN KEY NOTES #1 thru #4
Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	454.1.2.3.1(3)	At a minimum, the markings shall be located on both sides of the pool at the shallow end, slope break, deep-end wall and deep point (if located more than 5' (1,524 mm) from the deep-end wall). SHEET P1, POOL PLAN, DEPTH MARKER DETAILS AND POOL PLAN KEY NOTES #1 thru #4
Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	454.1.2.3.1(3)	Depth markings are visible from inside the pool and from the deck. SHEET P1, POOL PLAN, DEPTH MARKER DETAILS AND POOL PLAN KEY NOTES #1 thru #4
Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	454.1.2.3.1(3)	Maximum perimeter distance between depth markings is 25'. (Pool size and geometry may necessitate additional depth marking placements about all sides of the pool to meet this requirement) SHEET P1, POOL PLAN, DEPTH MARKER DETAILS AND POOL PLAN KEY NOTES #1 thru #4
Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	454.1.2.3.1(4)	When no curb is provided, depth markings are located at or above water level on inside vertical wall and on the deck (within 2' of water edge). SHEET P1, POOL PLAN, DEPTH MARKER DETAILS AND POOL PLAN KEY NOTES #1 thru #4
Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	454.1.2.3.1(6)	In areas, not part of an approved diving bowl, tile "NO DIVING" markings are on the curb top or deck within 2' (610 mm) of water edge on each side of pool with a maximum distance between markings of 25' (7,620 mm). SHEET P1, POOL PLAN, DEPTH MARKER DETAILS AND POOL PLAN KEY NOTES #1 thru #4
Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	454.1.2.3.1(6)	The "NO DIVING" markings are at least 4" high (102 mm) high and contrasting; or a 6" (152 mm) tile with min. 4" (102 mm) or larger red international "NO DIVING" symbol. SHEET P1, POOL PLAN, DEPTH MARKER DETAILS AND POOL PLAN KEY NOTES #1 thru #4
Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	454.1.2.3.1(7)	All markings installed on horizontal surfaces have a slip-resistant finish. SHEET P1, POOL PLAN, DEPTH MARKER DETAILS AND POOL PLAN KEY NOTES #1 thru #4
Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	454.1.2.3.1(7)	All markings are tile. Markings shall be flush with the surrounding area where placed and recessed, if necessary, to provide a smooth finish that will avoid creation of an injury hazard to bathers. SHEET P1, POOL PLAN, DEPTH MARKER DETAILS AND POOL PLAN KEY NOTES #1 thru #4
Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	64E-9.008(9)(a)	The bathing load will be posted at the pool as required in the bathing rules. SHEET P1, POOL RULES SIGN DETAILS - NOTE
Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	454.1.2.3.5	The lettering for the pool rules sign is at least 1" high (25.4 mm). SHEET P1, POOL RULES SIGN DETAILS
Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	454.1.2.3.5 64E-9.004	<p>The following rules in BOLD will be posted at or near poolside and will be legible from pool deck:</p> <ol style="list-style-type: none"> 1. NO FOOD OR BEVERAGES IN THE POOL OR ON POOL WET DECK. COMMERCIALLY BOTTLED WATER IN PLASTIC BOTTLES IS ALLOWED ON THE POOL WET DECK FOR POOL PATRON HYDRATION. <u>Exception: Food and beverages served in accordance with swim-up bar requirements found in Department of Health (DOH) rule 64E-9.004 Florida Administrative Code</u> FOOD AND DRINK ARE CONSUMED IN THIS POOL. ALL DRINKS SHALL BE IN PLASTIC OR ALUMINUM CONTAINERS 2. NO GLASS OR ANIMALS IN THE FENCED POOL AREA (OR 50 FEET (15,240 MM) FROM UNFENCED POOL). <u>Exception: Service animals as defined in s. 413.08, F.S. All animals are prohibited to enter the pool water or onto the drained area of an interactive water feature</u> 3. BATHING LOAD: 28 PERSONS. (30 BATHERS PERMITTED BASED ON TURNOVER FLOW) 4. POOL HOURS: DAWN A.M. TO DUSK P.M. (DAWN TO DUSK is approved for pool hours if the pool is not certified for night usage) 5. SHOWER BEFORE ENTERING. 6. "NO DIVING", in 4-inch (102 mm) letters is required for pools of 200 square feet (18.58 m²) in area or greater without an approved diving well configuration.

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		<p>7. DO NOT SWALLOW THE POOL WATER. (This statement shall be added to signs at pools that conduct alterations as that term is defined)</p> <p>8. “POOL MAXIMUM DEPTH: 5 FEET,” in <u>2-inch (51 mm) letters</u> shall be added to all pool rules by January 1, 2022.</p> <p>SHEET P1, POOL RULES SIGN DETAILS</p>
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ACCESS

Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	454.1.2.5	<p>All pools shall have a means of access every 75 feet (22,860 mm) of pool perimeter with a minimum of two, located so as to serve both ends of the pool. In addition, an access point shall be provided at the deep portion, if the deep portion is not at one end of the pool.</p> <p>SHEET P1, POOL PLAN</p>
Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	454.1.2.5.1	<p>Ladders shall be of the cross braced type and shall be constructed of corrosion-resistant materials and be securely anchored into the pool deck. SHEET P1, POOL PLAN AND SHEET P2, LADDER DETAILS</p>
Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	454.1.2.5.1	<p>Clearance between the ladder and pool wall shall be between 3 to 6 inches (76 mm to 152 mm). SHEET P1, POOL PLAN AND SHEET P2, LADDER DETAILS</p>
Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	454.1.2.5.1	<p>Ladders shall extend at least 28 inches (711 mm) and no more than 40 inches (1,016 mm) above the pool deck SHEET P1, POOL PLAN AND SHEET P2, LADDER DETAILS</p>
Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	454.1.2.5.1	<p>Ladder bottom braces shall have intact end caps or bumpers that rest firmly against the pool wall. SHEET P1, POOL PLAN AND SHEET P2, LADDER DETAILS</p>
Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	454.1.2.5.1	<p>The top rung of the ladder shall be at or below the water level on open gutter pools and not more than 12 inches (305 mm) below the deck or curb top on all other type pools. SHEET P1, POOL PLAN AND SHEET P2, LADDER DETAILS</p>
Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	454.1.2.5.3	<p>Stairs shall have a minimum tread width of 10" (254 mm) and a maximum width of 48" (1,219 mm) for a minimum tread length of 24" (610 mm) and a maximum riser height of 10" (254 mm). SHEET P1, POOL PLAN AND SHEET P2, STEP & HANDRAIL DETAILS</p>
Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	454.1.2.5.3	<p>Treads and risers between the top and bottom treads shall be uniform to within ½" (12.7 mm) in width and height.</p> <p>The riser heights shall be measured at the marked step edges and the differences in elevation shall be considered the riser heights. (Exception: Where a gutter is used as a top step, the gutter's 2" slope from lip to the drain shall be continuous for the full length of the stairs, and the riser from the gutter to the next tread need not be uniform with the remaining risers and treads.) SHEET P1, POOL PLAN AND SHEET P2, STEP & HANDRAIL DETAILS</p>
Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	454.1.2.5.3	<p>The front ¾ to 2 inches (19.1 to 51 mm) of the tread and the top 2 inches (51 mm) of the riser shall be tile, dark in color, contrasting with the interior of the pool. Tile shall be slip resistant.</p> <p>Bullnose tile that is slip resistant may be used when the ¾-inch (19 mm) segment is placed on the tread or horizontal surface and the 2-inch (51 mm) segment is placed on the riser or vertical surface. SHEET P1, POOL PLAN AND SHEET P2, STEP & HANDRAIL DETAILS – ENSURE SLIP RESISTANCE</p>
Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	454.1.2.5.5	<p>Handrail(s) for the stairs are correct length to mount in deck and bottom step. SHEET P1, POOL PLAN AND SHEET P2, STEP & HANDRAIL DETAILS</p>
Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	454.1.2.5.5	<p>Handrails and grabrails shall extend between 28 and 40 inches (711 mm and 1,016 mm) above the step edge and deck. SHEET P1, POOL PLAN AND SHEET P2, STEP & HANDRAIL DETAILS</p>
Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	454.1.2.5.6	<p>Permanent or portable steps, ramps, handrails, lifts or other devices designed to accommodate handicapped individuals in swimming pools may be provided.</p> <p>If provided, lifts mounted into the pool deck shall have a minimum 4-foot-wide (1,219 mm) deck behind the lift mount. SHEET P1, POOL PLAN AND SHEET P2, POOL NOTES #21 (ADA LIFT DETAILS)</p>
Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	454.1.2.6	<p>The pool water area shall be unobstructed by any type structure unless justified by engineering design as a part of the recirculation system. Engineering design and material specifications shall show that such structures will not endanger the pool patron, can be maintained in a sanitary condition and will not create a problem for sanitary maintenance of any part of the pool, pool water, or pool facilities. Structures in accord with the above shall not be located in a diving bowl area or within 15 feet (4,572 mm) of any pool wall.</p> <p>NOTE: Stairs, ladders and ramps, necessary for entrance/exit from the pool are not considered obstructions. SHEET P1 POOL PLAN</p>

POOL APPURTENANCES

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Y☒N□N/A□	454.1.3.1.1	Pool wet decks shall be constructed of concrete or other nonabsorbent material having a smooth slip resistant finish. Wet deck area finishes shall be designed for such use and shall be installed in accordance with the manufacturer's specifications. <i>Wooden decks and walkways are prohibited.</i> SHEET P2, POOL NOTES #13
Y☒N□N/A□	454.1.3.1.1	Pool wet decks shall be uniformly sloped away from the pool or to deck drains to prevent standing water. SHEET P1, POOL PLAN
Y☒N□N/A□	454.1.3.1.2	The minimum slope for the wet deck is 2%, but in the portions of the deck intended to be accessible to disabled persons, it may be 1% less than the maximum allowable cross slope given by the <i>Florida Building Code, Accessibility</i> . The maximum slope is 4%. A minimum of 1% deck slope is allowable for paver type decks. SHEET P1, POOL PLAN
Y□N□N/A☒	454.1.3.1.2	Textured deck finishes that provide pitting and crevices of more than 3/16 inch (4.8 mm) deep that accumulate soil are prohibited.
Y☒N□N/A□	454.1.3.1.2	If settling or weathering occurs that would cause standing water, the original slopes shall be restored, or corrective drains installed. ENSURE COMPLIANCE
Y☒N□N/A□	454.1.3.1.3	Pool wet decks shall have a minimum unobstructed width of 4 feet (1,219 mm) around the perimeter of the pool, pool curb, ladders, handrails, diving boards, diving towers and slides. SHEET P1, POOL PLAN
Y☒N□N/A□	454.1.3.1.5	Walkways shall be provided between the pool and the sanitary facilities and shall be constructed of concrete or other nonabsorbent material having a smooth slip resistant finish for the first 15 feet (4,572 mm) of the walkway measured from the nearest pool water's edge. SHEET P1, POOL PLAN
Y☒N□N/A□	454.1.3.1.5	A hose bibb with a vacuum breaker shall be provided to allow the deck to be washed down with potable water. SHEET P1, POOL PLAN
Y☒N□N/A□	454.1.3.1.7	Food or drink service facilities shall not be located within 12 feet (3,658 mm) of the water's edge. Exception: Food and beverages service facilities complying with Section 454.1.9.9. SHEET P2, POOL NOTES #9
Y☒N□N/A□	454.1.3.1.8	The vertical clearance above the pool deck shall be at least 7 feet (2,137 mm). SHEET P2, POOL NOTES #10
FENCE/BARRIER		
Y☒N□N/A□	454.1.3.1.9	All public pools shall be surrounded by a minimum 48 inch (1,219 mm) high fence or other approved substantial barrier. The fence shall be continuous around the perimeter of the pool area that is not otherwise blocked or obstructed by adjacent buildings or structures and shall adjoin with itself or abut to the adjacent members. Fencing consideration shall be given to the U.S. Consumer Product Safety Commission (CPSC) Publication, No. 362, March 2005, guidelines available from CPSC.gov; or Sections 454.2.17.1.1 through 454.2.17.1.8. Safety covers that comply with ASTM F1346-91 (Reapproved 2003), titled Safety Covers and Labeling Requirements for All Covers for Swimming Pools, Spas and Hot Tubs, and available from ASTM.org, do not satisfy this requirement. SHEET P1, POOL PLAN AND SHEET P2, POOL NOTES #21
Y☒N□N/A□	454.1.3.1.9	Access through the barrier or fence from dwelling units, such as homes, apartments, motel rooms and hotel rooms, shall be through self-closing, self-latching lockable gates of 48 inch (1,219 mm) minimal height from the floor or ground with the latch located a minimum of 54 inches (1,372 mm) from the bottom of the gate or at least 3 inches (76 mm) below the top of the gate on the pool side. SHEET P1, POOL PLAN AND SHEET P2, POOL NOTES #21
Y☒N□N/A□	454.1.3.1.9	If the self-closing, self-latching gate is also self-locking and is operated by a key lock, electronic opener or integral combination lock, then the operable parts of such locks or openers shall be 34 inches minimum (864 mm) and 48 inches maximum (1,219 mm) above the finished floor or ground. SHEET P1, POOL PLAN AND SHEET P2, POOL NOTES #21
Y☒N□N/A□	454.1.3.1.9	Doored access points from public rooms such as lobbies or club houses need not be through gates if the door(s) meet the same self-closing, self-latching requirements as a gate. Operable parts used for opening doors at these access points shall be 45 inches (1,143 mm) minimum to 48 inches (1,220 mm) maximum above the finish floor or ground. SHEET P1, POOL PLAN AND SHEET P2, POOL NOTES #21
Y☒N□N/A□	454.1.3.1.9	Gates shall open outward away from the pool area. SHEET P1, POOL PLAN AND SHEET P2, POOL NOTES #21
Y☒N□N/A□	454.1.3.2	Pool coping shall not overhang into the pool more than 1½ inches (38 mm). SHEET P1, BEAM AND WALL DETAIL
Y☒N□N/A□	454.1.3.3.1; 64E-9(3)(b)(c)(d)	All swimming pools shall be installed with a shepherd's hook securely attached to a one piece pole not less than 16 feet (4,880 mm) in length, and at least one 18-inch (457 mm)

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		diameter lifesaving ring with sufficient rope attached to reach all parts of the pool from the pool deck. SHEET P2, POOL EQUIPMENT SCHEDULE
Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	454.1.3.3.1; 64E-9(3)(d)	Safety equipment shall be mounted in a conspicuous place and be readily available for use. SHEET P1, POOL PLAN
Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	454.1.3.3.4	A room or space shall be provided for chemicals to be stored in a cool, dry, and well ventilated area under a roof and the area shall be inaccessible to the public. SHEET P2, POOL NOTES #4
Y <input type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	454.1.4.1	Electrical equipment wiring and installation, including the bonding and grounding of pool components shall comply with Chapter 27 of the Florida Building Code, Building. Outlets supplying pool pump motors connected to single phase 120-volt through 240-volt branch circuits, whether by receptacle or by direct connection, and outlets supplying other electrical equipment and underwater luminaires operating at voltages greater than the low voltage contact limit, connected to single phase, 120-volt through 240-volt branch circuits, rated 15 or 20 amperes, whether by receptacle or by direct connection, shall be provided with ground fault circuit interrupter protection for personnel. *TO BE REVIEWED BY BUILDING DEPT.

LIGHTING

Y <input type="checkbox"/> N <input type="checkbox"/> N/A <input checked="" type="checkbox"/>	454.1.4.2	Artificial lighting shall be provided at all swimming pools which are to be used at night or which do not have adequate natural lighting so that all portions of the pool, including the bottom, may be readily seen without glare. DH4159 PERMIT APPLICATION INDICATES NO NIGHTTIME SWIMMING
Y <input type="checkbox"/> N <input type="checkbox"/> N/A <input checked="" type="checkbox"/>	454.1.4.2.1	Outdoor pool lighting: Lighting shall provide a minimum of 3 footcandles (30 lux) of illumination at the pool water surface and the pool wet deck surface. Underwater lighting shall be a minimum of ½ watt incandescent equivalent, or 10 lumens, per square foot of pool water surface area. DH4159 PERMIT APPLICATION INDICATES NO NIGHTTIME SWIMMING
Y <input type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	424.1.4.2.3	Underwater lighting: Underwater luminaires shall comply with Chapter 27 of the Florida Building Code, Building. *TO BE REVIEWED BY BUILDING DEPT.
Y <input type="checkbox"/> N <input type="checkbox"/> N/A <input checked="" type="checkbox"/>	454.1.4.2.3	The location of the underwater luminaires shall be such that the underwater illumination is as uniform as possible. DH4159 PERMIT APPLICATION INDICATES NO NIGHTTIME SWIMMING, (2) LIGHTS SHOWN INSTALLED, (FUTURE USE AFTER LIGHTING CERTIFICATION)
Y <input type="checkbox"/> N <input type="checkbox"/> N/A <input checked="" type="checkbox"/>	454.1.4.2.3	Underwater lighting requirements can be waived when the overhead lighting provides at least 15 footcandles (150 lux) of illumination at the pool water surface and pool wet deck surface. DH4159 PERMIT APPLICATION INDICATES NO NIGHTTIME SWIMMING
Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	454.1.4.2.4	Overhead wiring. Overhead service wiring shall not pass within an area extending a distance of 10 feet (3,048 mm) horizontally away from the inside edge of the pool walls, diving structures, observation stands, towers or platforms. Allowances for overhead conductor clearances to pools that meet the safety standards in the <i>National Electrical Code</i> may be used instead. Electrical equipment wiring and installation including the grounding of pool components shall comply with Chapter 27. ENSURE COMPLIANCE
Y <input type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	454.1.4.2.5	Voltage limitation. Underwater lighting, or lighting that may be exposed to nozzle directed pool water, shall not exceed 30 volts DC or 15 volts AC. Such lights shall be installed in accordance with manufacturer's specifications and approved for such use by UL or NSF. *TO BE REVIEWED BY BUILDING DEPT.

EQUIPMENT AREA

Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	454.1.5.1	Equipment designated by the manufacturer for outdoor use may be located in an equipment area, all other equipment must be located in an equipment room or enclosure. SHEET P2, POOL NOTES #18
Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	454.1.5.1, 454.1.6.4, & 454.1.6.5.6	Plastic pipe subject to a period of prolonged sunlight exposure must be coated to protect it from ultraviolet light degradation. SHEET P2, POOL NOTES #17
Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	454.1.5.1	An equipment area shall be surrounded with a fence at least 4 feet (1,219 mm) high on all sides not confined by a building or equivalent structure. A self-closing and self-latching gate with a permanent locking device shall be provided if necessary, for access. An equipment room shall be protected on at least three sides and overhead. Any fence or gate installed shall use members spacing that shall not allow passage of a 4-inch (102 mm) diameter sphere. The fourth side may be a gate, fence, or open if otherwise protected from unauthorized entrance. SHEET P1, POOL PLAN, EQUIPMENT ENCLOSURE INSIDE PERIMETER FENCE, MUST HAVE LOCKABLE COVER

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Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	454.1.5.1	An equipment enclosure shall be lockable or otherwise protected from unauthorized access. SHEET P1, POOL PLAN, EQUIPMENT ENCLOSURE INSIDE PERIMTER FENCE, MUST HAVE LOCKABLE COVER
Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	454.1.3.1.9	A latched, lockable gate shall be placed in the fence within 10 feet (3,048 mm) of the closest point between the pool and the equipment area for service access. SHEET P1, POOL PLAN, EQUIPMENT ENCLOSURE INSIDE PERIMTER FENCE, MUST HAVE LOCKABLE COVER
Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	454.1.5.3	The equipment enclosure, area or room floor shall be of concrete or other nonabsorbent material having a smooth slip resistant finish and shall have positive drainage, including a sump pump if necessary SHEET P4, FILTER EQUIPMENT NOTES #8
Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	454.1.5.4	Equipment rooms shall have either forced draft or cross ventilation. SHEET P4, FILTER EQUIPMENT COVER, SIDEWALL VENTS
Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	454.1.5.5	The opening to an equipment room or area shall be a minimum 3 feet by 6 feet (914 mm by 1829 mm) and shall provide easy access to the equipment. SHEET P4, FILTER EQUIPMENT PLAN
Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	454.1.5.5	Below grade collector tank(s) must have adequate access for cleaning, maintenance and inspection. SHEET P4, COLLECTOR TANK DETAILS – PROVIDE WITH LOCKABLE COVER
Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	454.1.5.6	The size of the equipment enclosure, room or area shall provide working space to perform routine operations. SHEET P4, FILTER EQUIPMENT PLAN
Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	454.1.5.6	Clearance shall be provided for all equipment as prescribed by the manufacturer to allow normal maintenance operation and removal without disturbing other piping or equipment. SHEET P4, FILTER EQUIPMENT PLAN
Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	454.1.5.7	The equipment room is lighted to provide a minimum 30 fc (300 lux) of illumination at floor level. SHEET P4, FILTER EQUIPMENT PLAN
Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	454.1.5.8	Equipment enclosures, rooms or areas shall not be used for storage of chemicals emitting corrosive fumes or for storage of other items to the extent that entrance to the room for inspection or operation of the equipment is impaired. ENSURE COMPLIANCE
Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	454.1.5.9	A hose bibb with vacuum breaker shall be located in the equipment room or area. SHEET P4, COLLECTOR TANK DETAILS

SANITARY FACILITIES

Y□N□N/A☒	454.1.6.1	<p>Sanitary facilities: The entry doors of all restrooms shall be located within a 200-foot (60,960 mm) walking distance of the nearest water's edge of each pool served by the facilities.</p> <p>Exception: Where a swimming pool serves only a designated group of residential dwelling units including hotel rooms and not the general public, poolside sanitary facilities are not required if all living units are within a 200-foot (60,960 mm) horizontal radius of the nearest water's edge, are not over three stories in height unless serviced by an elevator, and are each equipped with private sanitary facilities. SHEET P1, POOL PLAN NOTE, ALL LIVING UNITS WITHIN 200' RADIUS</p>																																																															
Y□N□N/A☒	454.1.6.1.1	<p>Sanitary facilities: Required fixtures shall be provided as indicated on Table 454.1.6.1. The fixture count on this chart is deemed to be adequate for the pool and pool deck area that is up to three times the area of the pool surface provided. When multiple fixture sets are required and separate facilities are provided for each sex, the fixtures used in ancillary family style restrooms can be used to meet the requirements of this section. SHEET P1, POOL PLAN NOTE, ALL LIVING UNITS WITHIN 200' RADIUS</p>																																																															
Y□N□N/A☒	454.1.6.1.1	<table><tr><td colspan="8">TABLE 454.1.6.1</td></tr><tr><td colspan="8">PUBLIC SWIMMING POOL—REQUIRED FIXTURE COUNT</td></tr><tr><td rowspan="2">REQUIRED MINIMUM FIXTURE COUNT</td><td>SIZE OF POOL (square feet)</td><td colspan="3">MEN'S RESTROOM</td><td colspan="2">WOMEN'S RESTROOM</td></tr><tr><td>For SI: 1 FT² = 0.0929 m².</td><td>Urinals</td><td>WC</td><td>Lavatory</td><td>WC</td><td>Lavatory</td></tr><tr><td>□</td><td>0 – 2,500</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td></tr><tr><td>□</td><td>2,501 – 5,000</td><td>2</td><td>1</td><td>1</td><td>5</td><td>1</td></tr><tr><td>□</td><td>5,001 – 7,500</td><td>2</td><td>2</td><td>2</td><td>6</td><td>2</td></tr><tr><td>□</td><td>7,501 – 10,000</td><td>3</td><td>2</td><td>3</td><td>8</td><td>3</td></tr></table>							TABLE 454.1.6.1								PUBLIC SWIMMING POOL—REQUIRED FIXTURE COUNT								REQUIRED MINIMUM FIXTURE COUNT	SIZE OF POOL (square feet)	MEN'S RESTROOM			WOMEN'S RESTROOM		For SI: 1 FT² = 0.0929 m².	Urinals	WC	Lavatory	WC	Lavatory	□	0 – 2,500	1	1	1	1	1	□	2,501 – 5,000	2	1	1	5	1	□	5,001 – 7,500	2	2	2	6	2	□	7,501 – 10,000	3	2	3	8	3
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TABLE NOTE:	454.1.6.1.1	<p>Square footage of interactive water features (IWF's) is required to be included when calculating the size of pool for the purposes of determining the type and number of fixtures for the sanitary facilities. For those facilities with an IWF in addition to the pool, causing the</p>																																																															

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		combined pool size square footage to exceed the threshold required category fixture count, a unisex restroom may be installed to satisfy the fixture requirement for every additional 1,250 square feet or fraction thereof. The IWF feature flow for one unisex restroom shall not exceed 100 gpm, nor shall bathing load exceed 20 patrons.
NOTE:	454.1.6.1.1	<p>Exception: When a public swimming pool meets all of the following conditions the following shall apply:</p> <ol style="list-style-type: none"> 1. The pool serves only a designated group of dwelling units, 2. The pool is not for the use of the general public, and 3. A building provides sanitary facilities; <p>The fixture requirement for the building shall be determined and if it exceeds the requirement in Table 454.1.6.1 then the building requirement shall regulate the fixture count, otherwise the fixture count shall be based on the requirement for the pool. Under no circumstances shall the fixture counts be cumulative.</p>
Y <input type="checkbox"/> N <input type="checkbox"/> N/A <input checked="" type="checkbox"/>	454.1.6.1.1	<p>Sanitary facilities: One diaper changing table shall be provided at each restroom. Diaper changing tables are not required at restrooms where all pools served are restricted to adult use only.</p> <p>(Swim diapers are recommended for use by children that are not toilet trained. Persons that are ill with diarrhea cannot enter the pool.) SHEET P1, POOL PLAN NOTE, ALL LIVING UNITS WITHIN 200' RADIUS</p>
Y <input type="checkbox"/> N <input type="checkbox"/> N/A <input checked="" type="checkbox"/>	454.1.6.1.2	<p>Sanitary facilities: Outside access to facilities shall be provided for bathers at outdoor pools. Where the restrooms are located within an adjacent building and the restroom doors do not open to the outside, the restroom doors shall be within 50' (15,240 mm) of the building's exterior door. SHEET P1, POOL PLAN NOTE, ALL LIVING UNITS WITHIN 200' RADIUS</p>
Y <input type="checkbox"/> N <input type="checkbox"/> N/A <input checked="" type="checkbox"/>	454.1.6.1.2	<p>Sanitary facilities: If the restrooms are not visible from any portion of the pool deck, signs shall be posted showing directions to the facilities. Directions shall be legible from any portion of the pool deck; letters shall be a minimum of 1" (25 mm) high. SHEET P1, POOL PLAN NOTE, ALL LIVING UNITS WITHIN 200' RADIUS</p>
Y <input type="checkbox"/> N <input type="checkbox"/> N/A <input checked="" type="checkbox"/>	454.1.6.1.3	<p>Sanitary facilities: Floors of sanitary facilities shall be constructed of concrete or other nonabsorbent materials, shall have a smooth, slip resistant finish, and shall slope to floor drains, which must be installed within the facility. SHEET P1, POOL PLAN NOTE, ALL LIVING UNITS WITHIN 200' RADIUS</p>
Y <input type="checkbox"/> N <input type="checkbox"/> N/A <input checked="" type="checkbox"/>	454.1.6.1.3	<p>Sanitary facilities: There are no foot baths, carpet or duck boards on the floor. SHEET P1, POOL PLAN NOTE, ALL LIVING UNITS WITHIN 200' RADIUS</p>
Y <input type="checkbox"/> N <input type="checkbox"/> N/A <input checked="" type="checkbox"/>	454.1.6.1.3	<p>Sanitary facilities: The intersection between the floor and walls shall be coved where either floor or wall is not made of waterproof materials such as tile or vinyl. SHEET P1, POOL PLAN NOTE, ALL LIVING UNITS WITHIN 200' RADIUS</p>
Y <input type="checkbox"/> N <input type="checkbox"/> N/A <input checked="" type="checkbox"/>	454.1.6.1.4	<p>Sanitary facilities: A hose bibb with vacuum breaker is in or within 25' (7,620 mm) each restroom for ease of cleaning. SHEET P1, POOL PLAN NOTE, ALL LIVING UNITS WITHIN 200' RADIUS</p>
RECIRCULATION AND TREATMENT		
Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	454.1.6.2	<p>A minimum of one rinse shower shall be provided on the pool deck of all outdoor pools within the perimeter of the fence. SHEET P1, POOL PLAN</p>
Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	454.1.6.3	<p>An atmospheric break or approved backflow prevention device shall be provided in each pool water supply line that is connected to a public water supply. ENSURE COMPLIANCE – LAKE CITY UTILITIES</p>
Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	454.1.6.3	<p>Vacuum breakers shall be installed on all hose bibbs. SHEET P1, POOL PLAN</p>
Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	454.1.6.5.1	<p>Recirculation and treatment equipment such as filters, recessed automatic surface skimmers, ionizers, ozone generators, disinfection feeders and chlorine generators shall be tested and approved using the NSF/ANSI Standard 50, Circulation System Components and Related Materials for Swimming Pool, Spas/Hot Tubs, dated April 2007, which is incorporated by reference. SHEET P4, FILTER EQUIPMENT NOTES #3</p>
Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	454.1.6.5.2	<p>The recirculation system shall be designed to provide a minimum of four turnovers of the pool volume per day. Pools that are less than 1,000 square feet (93 m²) at health clubs shall be required to provide eight turnovers per day. 17,200 GALLS ÷ 150GPM ÷ 60 = 1.91 HOURS</p>
Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	64E-9.004(5)	<p>The pool recirculation system must be operated at all times when the pool is open for use. The recirculation system may be shut off three hours after the pool closes but must resume operation three hours before opening the pool. Shut down time must be controlled by a time clock. When a variable speed pump is used, the recirculation system shall be operated such</p>

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		that it achieves the equivalent of 6 hours of treatment at 100% design flowrate during the daily closed period, or at least one complete water volume turnover, whichever is greater. Exception: vacuum DE systems are excluded from this allowance. ***If multiple recirculation pumps are used the required flowrate, filtration, & chemical treatment must be maintained, or the entire system shall not operate. Example: System must not be able to operate without one pump if the additional pumps are not able to maintain the proper flowrate, filtration, and chemical treatment (some type of audible alarming system audible may be employed to ensure requirement is met). ENSURE COMPLIANCE
Y☒N□N/A□	64E-9.004(1)	Pool makeup water supply is from an approved potable water system or meets those requirements with bacteriological/chemical reports to county health department. ENSURE COMPLIANCE – COLUMBIA COUNTY
Y☒N□N/A□	454.1.6.5.4	If the pump or suction piping is located above the water level of the pool, the pump shall be self-priming. SHEET P4, FILTER EQUIPMENT LIST, PENTAIR, MAX-E-PRO, MODEL 023035, 5HP
Y☒N□N/A□	454.1.6.5.4	Pumps that take suction prior to filtration shall be equipped with a hair and lint strainer. SHEET P4, FILTER EQUIPMENT LIST, PENTAIR, MAX-E-PRO, MODEL 023035, 5HP
Y☒N□N/A□	454.1.6.5.4	Pressure filter system pump shall be selected to provide the required recirculation flow against a minimum total dynamic head of 60 feet (18,288 mm) unless hydraulically justified by the design engineer. SHEET P4, FILTER EQUIPMENT LIST, PENTAIR, MAX-E-PRO, MODEL 023035, 5HP, PUMP RATED AT 202 GPM @ 60ftTDH, REGULATE TO 150GPM
Y☒N□N/A□	454.1.6.5.5	Filters are sized to handle the required recirculation flowrate. SHEET P4, FILTER EQUIPMENT LIST, (2) PENTAIR, MODEL TR-140 SAND FILTER, 7.06 SQ.FT. EACH = 14.12 SQ.FT.

SKIMMER SYSTEMS

Y☒N□N/A□	454.1.6.5.3	The design pattern of recirculation flow of pool with skimmer systems is 100% through main drain piping and 60% through skimmer system piping. SHEET P3, POOL PIPING PLAN, MAIN DRAIN – 6" (264GPM MAX FLOW, SKIMMER – 4" (117GPM MAX FLOW)
Y☒N□N/A□	454.1.6.5.3.2	Skimmer pool water surface area does not exceed 1,000 FT. ² (93 m ²) excluding offset stairs & swimout. SHEET P1, POOL DATA, SURFACE AREA = 578 SQ.FT.
Y☒N□N/A□	454.1.6.5.3.2	Skimmer pool does not exceed maximum width of 20' (6,096 mm). SHEET P1, POOL PLAN, POOL WIDTH = 17'6"
Y☒N□N/A□	454.1.6.5.3.2.1	Skimmer system designed to carry 60% of pool total design flow rate with each skimmer carrying a minimum of 30 gallons per minute (2 L/s). <i>NOTE: In order to achieve this code requirement, the minimum required flowrate per skimmer would need to be 50 gallons per minute to ensure at 60% of the flow the 30 gallons per minute can be met (Example: Two skimmer pool would require a minimum flowrate of 100 gallons per minute)</i> DESIGN FLOW = 150GPM X 60% = 90GPM (3 SKIMMERS)
Y☒N□N/A□	454.1.6.5.3.2.1	Number of skimmers is based upon 1 for every 400 FT. ² (37 m ²) or fraction thereof of pool water surface area. SHEET P1, POOL DATA, SURFACE AREA = 578 SQ.FT. ÷ 400 = 1.44 (MINIMUM 2 SKIMMERS, 3 USED)
Y☒N□N/A□	454.1.6.5.3.2.2	Prevailing wind direction and the pool outline shall be considered by the designer in the selection of skimmer locations. The location of skimmers shall be such that the interference of adjacent inlets and skimmers is minimized.
Y☒N□N/A□	454.1.6.5.3.2.2	Skimmers do not protrude into pool area. SHEET P3, SKIMMER DETAILS
Y☒N□N/A□	454.1.6.5.3.2.2	The deck or curb shall provide for a handhold around the entire pool perimeter and shall not be located more than 9" (229 mm) above the midpoint of the opening of the skimmer. SHEET P3, SKIMMER DETAILS
Y□N□N/A☒	454.1.6.5.3.2.3	If installed , an equalizer valve shall be a spring-loaded vertical check valve that will not allow direct suction on the equalizer line. Float valves are prohibited. The equalizer line inlet shall be installed at least 1 foot (305 mm) below the normal pool water level and the equalizer line inlet shall be protected by an ASME/ANSI A112.19.8 compliant cover/grate. The equalizer line shall be sized to handle the expected flow with a 2-inch (51 mm) minimum line size. Where an equalizer valve is not installed, the skimmer port may be plugged.
Y☒N□N/A□	454.1.6.5.3.2.4	A wall inlet fitting is directly across from each skimmer. SHEET P3, POOL PIPING PLAN
Y☒N□N/A□	454.1.6.5.3.2.5	A minimum 6" (152 mm) water line tile shall be provided on all pools with automatic skimmer systems, each a minimum size of 1" (25 mm) on all sides. Glazed tile that is smooth and easily cleanable shall be utilized. SHEET P1, BEAM AND WALL DETAIL

SAND FILTER SYSTEMS

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Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	454.1.6.5.5.1	Sand type filters: The filter is sized such that the filtration rate does not exceed 3 gpm/FT ² for rapid sand filter or 15 gpm/FT ² for high rate sand filters (or 20 if so rated by NSF). SHEET P4, FILTER EQUIPMENT LIST, (2) PENTAIR, MODEL TR-140 SAND FILTER, 7.06 SQ.FT. EACH = 14.12 SQ.FT. X 20GPM = 282GPM MAX FLOW
Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	454.1.6.5.5.2.1	Sand type filters: Pressure filter systems shall be equipped with an air relief valve, influent and effluent pressure gauges with minimum face size of 2 inches (51 mm) reading 0–60 psi (0–414 kPa), and a sight glass when a backwash line is required. SHEET P4, FILTER EQUIPMENT LIST
Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	454.1.6.5.8	Sand type filters: The filter and vacuuming system shall have the necessary valves and piping to allow filtering to pool, vacuuming to waste, vacuuming to filter, complete drainage of the filter tank, backwashing for sand and pressure. SHEET P4, FILTER EQUIPMENT PLAN

PIPING

Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	454.1.6.5.6	All plastic pipe used in the recirculation system shall be imprinted with the manufacturer's name and the NSF-pw logo for potable water applications. Size, schedule and type of pipe shall be included on the drawings. SHEET P2, POOL NOTES #7
Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	454.1.6.5.7	Return line, main drain line, and surface overflow system lines each have proportioning valves. SHEET P4, FILTER EQUIPMENT PLAN AND COLLECTOR TANK DETAILS
Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	454.1.6.5.8	All pressure piping is sized such that the flow velocity does not exceed 10' per second (2,038 mm/s) at the design flow rate. (Exception: Precoat lines when higher velocity is needed for agitation purposes.) 4" = 392GPM MAX FLOW/DESIGN FLOW 150GPM
Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	454.1.6.5.8	All suction piping is sized such that the flow velocity does not exceed 6' per second (1,829 mm/s) at the design flow rate. (Exception: Vacuum filter header assembly where velocity may be up to 10' per second (3,048 mm/s).) 4" = 235GPM MAX FLOW/DESIGN FLOW 150GPM
Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	454.1.6.5.8	Main drain systems and surface overflow systems which discharge to collector tanks are sized such that the flow velocity does not exceed 3' per second (914 mm/s) at the design flow rate. MAIN DRAIN – 6" = 264GPM MAX FLOW/DESIGN FLOW 150GPM, SKIMMER – 4" = 117GPM MAX FLOW/DESIGN FLOW 90GPM
Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	454.1.6.5.9	Wall inlets shall be installed a minimum of 12 inches (305 mm) below the normal operating water level unless precluded by the pool depth or intended for a specific acceptable purpose. SHEET P3, POOL PIPING PLAN
Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	454.1.6.5.9	Wall inlets are directionally adjustable. SHEET P3, POOL PIPING PLAN – ENSURE COMPLIANCE
Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	454.1.6.5.9.1	Pools 30 feet (9,144 mm) in width or less, with wall inlets only shall have enough inlets such that the inlet spacing does not exceed 20 feet (6,096 mm) based on the pool water perimeter. SHEET P3, POOL PIPING PLAN
Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	454.1.6.5.9.6	The flow rate through each inlet shall not exceed 20 gpm (1 L/s) except for inlets designed for higher flows as specified by the manufacturer. SHEET P3, POOL PIPING PLAN, (8) INLETS, 150GPM ÷ 8 = 18.75GPM EACH
Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	454.1.6.5.10	Main drain outlets: All pools shall be provided with an outlet at the deepest point. SHEET P1, POOL SECTION
Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	454.1.6.5.10.1	If the depth at the outlet deviates more than 3 inches (76 mm) from the side wall, that depth shall be identified on depth markers in addition to the markers normally required for the sidewall depth. Markers for the depth at the drains shall be in accordance with Section 454.1.2.3 with the following words added: "AT CENTER" for circular areas and "AT DEEP POINT" for other pool shapes. SHEET P2, POOL NOTES #16
Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	454.1.6.5.10.2	Outlets are covered by a secure grate which requires the use of a tool to remove. SHEET P2, MAIN DRAIN DETAIL
Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	454.1.6.5.10.2	The open area of the main drain grate(s) is such that the maximum velocity of water passing through the openings does not exceed 1½ feet per second (457 mm/s) at 100% of the design recirculation flow. SHEET P2, POOL EQUIPMENT SCHEDULE, (1) WATERWAY, MODEL 640-472XV
Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	454.1.6.5.10.2	Main drain covers/grates shall comply with the requirements of ANSI/APSP 16 and the water velocity of this section. SHEET P2, POOL EQUIPMENT SCHEDULE, (1) WATERWAY, MODEL 640-472XV, 12" DRAIN, MAX FLOW 292GPM
Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	454.1.6.5.10.4	If the area is subject to high ground water, the pool shall be designed to withstand hydraulic uplift or shall be provided with hydrostatic relief devices. SHEET P2, MAIN DRAIN DETAIL

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Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	454.1.6.5.10.5	The main drain outlet shall be connected to a collector tank. SHEET P3, POOL PIPING PLAN
Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	454.1.6.5.10.5	The capacity of the collector tank shall be at least 1 minute of the recirculated flow unless justified by the design engineer. Note: Vacuum filter tanks are considered collector tanks. SHEET P4, FILTER EQUIPMENT LIST, 250 GALLON CAPACITY
Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	454.1 Definitions	<p>“Collector tank” means a reservoir, with a minimum of 2.25 square feet (0.2 m²) water surface area, that is vented by piping and/or open to the atmosphere, from which the recirculation or feature pump takes suction, which receives the gravity flow from the main drain line and surface overflow system or feature water source line, and that is cleanable.</p> <p>The vent shall measure a minimum of 12.56 square inches (8,103 mm²) in area and shall be equipped with a screen, or equivalent device, to prohibit entry by animals. The vent shall be designed to minimize rainwater entry into the tank. Tanks with vented lids shall not be required to be equipped with a separate vent. Tanks shall be constructed of concrete or other impervious and structurally rigid material, with adequate manway access, shall be watertight, shall be free from structural cracks and shall have a nontoxic smooth finish. SHEET P4, FILTER EQUIPMENT LIST – MUST HAVE LOCKABLE LID</p>
Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	454.1.6.5.11	<p>An automatic and manual water makeup control shall be provided to maintain the water level at the lip of the overflow gutter or at the mouth of the recessed automatic surface skimmers and shall discharge through an air gap into a fill pipe or collector tank.</p> <p><i>Over the rim fill spouts are prohibited.</i> SHEET P4, COLLECTOR TANK DETAIL</p>
Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	454.1.6.5.12	<p>A portable, robotic or plumbed in vacuum cleaning system shall be provided.</p> <p>Note: Cleaning devices shall not be used while the pool is open to bathers. SHEET P3, PORTABLE VACUUM UNIT NOTE</p>
Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	454.1.6.5.12	All vacuum pumps shall be equipped with hair and lint strainers. SHEET P3, PORTABLE VACUUM UNIT NOTE
Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	454.1.6.5.13	A rate of flow indicator (flowmeter), reading in gpm, shall be installed on the return line. SHEET P4, FILTER EQUIPMENT PLAN
Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	454.1.6.5.13	The rate of flow indicator shall be properly sized for the design flow rate and shall be capable of measuring from one half to at least one and one-half times the design flow rate. SHEET P4, FILTER EQUIPMENT LIST, BLUE-WHITE, 4”, MODEL F30400P, 75GPM – 420GPM RANGE, 75GPM – 225GPM REQUIRED
Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	454.1.6.5.13	The clearances upstream and downstream from the rate of flow indicator shall comply with manufacturer's installation specifications. SHEET P4, FILTER EQUIPMENT PLAN
Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	64E-9.004(e)	Landscape irrigation water that wets the wet deck area of the pool, the pool itself, enters the collector tank, or wets an interactive water feature must be potable water from a public water system or shall meet the bacteriological quality of potable water as evidenced by annual laboratory analysis submitted to the department. Reclaimed water may not be used in these areas. If reclaimed water is used in the vicinity of the pool (inside of the pool fence or within 100' of the pool water's edge) it must employ drip irrigation or soaker hoses. Signs shall be posted notifying pool patrons that reclaimed water is in use and is not to be consumed. ENSURE COMPLIANCE

POOL WASTEWATER

Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	454.1.6.5.15	Pool wastewater shall be discharged through an air gap. SHEET P4, WASTE LINE DETAIL
Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	454.1.6.5.15	Pool wastewater disposal shall be to sanitary sewers, storm sewers, drain fields, or by other means, in accordance with local requirements including obtaining all necessary permits. SHEET P4, FILTER EQUIPMENT NOTES #7
Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	454.1.6.5.15	All lines shall be sized to handle the expected flow. MINIMUM 2.5” LINE
Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	454.1.6.5.15	There shall not be a direct physical connection between any drain from a pool or recirculation system and a sewer line. SHEET P4, WASTE LINE DETAIL

ADDITION OF CHEMICALS

Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	454.1.8.12	Automated ORP & PH controllers are provided *Required for all pools where the turnover rate is less than 3 hours, spa pools, and all pools categorized under FBC 454.1.9. SHEET P4, FILTER EQUIPMENT LIST, HAYWARD, MODEL CAT2000 pH/ORP CONTROLLER
Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	454.1.6.5.18 64E-9.004(1)(d)	Only NSF 60 approved chemicals shall be provided. ENSURE COMPLIANCE
Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	64E-9.004(9)	A test kit is provided and is capable of testing for free active halogens, total or combined available chlorine, total alkalinity, calcium hardness & pH. SHEET P2, POOL NOTES #19

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Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	454.1.6.5.16	Disinfection and pH adjustment shall be added to the pool recirculation flow using automatic feeders meeting the requirement of ANSI/NSF 50. SHEET P4, FILTER EQUIPMENT NOTES #3
Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	454.1.6.5.16	All chemicals shall be fed into the return line after the pump, heater and filters unless the feeder was designed by the manufacturer and approved by the NSF to feed to the collector tank or to the suction side of the pump. SHEET P4, FILTER EQUIPMENT PLAN

HYPOHALOGENATION AND ELECTROLYTIC CHLORINE GENERATORS

Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	454.1.6.5.16.2	Hypohalogenation: The hypohalogenation-type feeder and electrolytic chlorine generators shall be adjustable from 0 to full range. SHEET P4, FILTER EQUIPMENT LIST, STENNER, MODEL 45M5, 50GPD
Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	454.1.6.5.16.2	Hypohalogenation: The feeder is capable of feeding a dosage of 6 ppm to the minimum required turnover flow rate (if solution type feeders, a 5% calcium hypochlorite or 10% sodium hypochlorite solution). 150GPM ÷ 13.87 = 10.8 GPD
Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	454.1.6.5.16.2	Hypohalogenation: An electrical feeder, when used, has electrical interlock with the recirculation pump to prevent the disinfectant from siphoning or feeding directly into the pool or pool piping under any type failure of the recirculation equipment. A flow sensor controller may be used. SHEET P2, POOL NOTES #23
Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	454.1.6.5.16.2	Hypohalogenation: Solution crock has a volume equal to at least 50% of the maximum daily feed capacity of the chlorine solution feeder. Solution crock is marked to indicate contents. SHEET P4, FILTER EQUIPMENT LIST, 30 GALLON CAPACITY – MUST HAVE LOCKABLE LID

FEEDER FOR pH ADJUSTMENT

Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	454.1.6.5.16.3	Feeders for pH adjustment shall be provided on all pools.
Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	454.1.6.5.16.3	pH adjustment feeder: pH adjustment feeders shall be positive displacement type, shall be adjustable from 0 to full range. SHEET P4, FILTER EQUIPMENT LIST, STENNER, MODEL 45M3, 22GPD
Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	454.1.6.5.16.3	pH adjustment feeder: An electrical feeder has electrical interlock with the recirculation pump to prevent discharge when the recirculation pump is not operating. SHEET P2, POOL NOTES #23
Y <input checked="" type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	454.1.6.5.16.3	pH adjustment feeder: The solution crock volume is at least 50% of the maximum daily capacity of the feeder and is marked to indicate the contents. SHEET P4, FILTER EQUIPMENT LIST, 30 GALLON CAPACITY – MUST HAVE LOCKABLE LID

ELECTRICAL *TO BE REVIEWED BY BUILDING DEPT.

Y <input type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	454.1.10.4.1	Ground fault circuit interrupter protection for personnel. Outlets supplying repaired, replaced, altered, or relocated pool pump motors connected to single-phase, 120-volt through 240-volt branch circuits, whether by receptacle or by direct connection, and outlets supplying all other repaired, replaced, altered, or relocated electrical equipment and underwater luminaires operating at voltages greater than the low voltage contact limit, connected to single-phase, 120-volt through 240-volt branch circuits, rated 15 and 20 amperes, whether by receptacle or by direct connection, shall be provided with ground fault circuit interrupter protection for personnel.
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EQUIPOTENTIAL BONDING *TO BE REVIEWED BY BUILDING DEPT.

Y <input type="checkbox"/> N <input type="checkbox"/> N/A <input type="checkbox"/>	454.1.10.4.2	Equipotential bonding. Any of the parts specified in Sections 680.26(B)(1) through (B)(7) of the NFPA 70, National Electrical Code that are repaired, replaced, altered, or installed new at an existing swimming pool shall be connected to the existing bonding system using solid copper conductors, insulated, covered, or bare, not smaller than 8 AWG or with rigid metal conduit of brass or other identified corrosion resistant metal. Connections to bonded parts shall be made in accordance with Section 250.8 of NFPA 70, <i>National Electrical Code</i> . An 8 AWG or larger solid copper bonding conductor provided to reduce voltage gradients in the pool area shall not be required to be extended or attached to remote panelboards, service equipment, or electrodes. All metallic float in light rings shall be connected to the equipotential bonding grid. Float in light rings with no provision for bonding, and other devices which do not provide an electrical connection between a metallic underwater luminaire and the forming shell of a wet niche fixture, including screws or bolts not supplied by the luminaire's manufacturer and listed for use with the specific luminaire, shall not be allowed for use with any underwater luminaire that is required to be grounded. Where none of the bonded parts is indirect connection with the pool water, the pool water shall be in direct contact with an approved corrosion resistant conductive surface that exposes not less than 9 square inches (5800 mm ²) of surface area to the pool water at all times. The conductive surface shall be located where it is not exposed to physical damage or dislodgement during usual pool activities, and it shall be bonded in accordance with Section
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		680.26(B) of the NFPA 70, <i>National Electrical Code</i> . A bonded concrete pool shell shall be considered to be a conductive surface. The interior metallic surface or surfaces of any forming shell (wet niche) shall not be covered with any material, including plaster, except potting compound covering internal bonding connections in conformance with 680.23(B)(2)(b) of NFPA 70, <i>National Electrical Code</i> , shall be allowed.
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