

**COLLIER COUNTY GOVERNMENT**  
**GROWTH MANAGEMENT DIVISION / BUILDING REVIEW & INSPECTION**  
**2800 N. Horseshoe Drive, Naples FL 34104 \* Phone (239) 252-2400**

## **Outstanding Corrections**

**Date:** March 24, 2017

**Contact Name:** FLORIDA POOL PROFESSIONALS, INC.

**Address:** 1791 TRADE CENTER WAY #C

**City, State Zip:** NAPLES, FL 34117-

**Fax:** (239) 498-2124

**PERMIT NO:** PRBD2017030800001

**APPLICATION NO:** PRBD20170308000

**JOB SITE ADDRESS:** 3713 Milano Lakes CIR, Unit:

**Email:**Office@flpoolprofessionals.com

Dear Applicant:

Plans submitted with the referenced permit have been reviewed. We are unable to approve your permit application for the reason(s) indicated below.

***For Applications Submitted on Paper:***

- Review the corrections below to identify each document you will need to submit.
- All corrections must be clouded.
- Corrections to *paper documents* must be submitted in person; the GMD office receiving corrections is open until 4:30 pm.
- Submit 5 sets of corrected documents.
- Submit 5 copies of the Letter of Response summarizing the changes made to address each correction comment below.

**JOB DESCRIPTION:** CONSTRUCTION COMMERCIAL POOL, SPA, AND KIDDEE POOL  
3713 MILANO LAKES CIR

**Rejected Review: Plumbing and Handicap Review**

**Reviewed By:** Tim Rygiel

**Phone:**239-252-2455    **Email:**TimothyRygiel@colliergov.net

Correction Comment 1: Separate permits required for spa and wading pool.

Please contact Eddie Bouza our Claudine Auclair upon resubmittal to facilitate.

Correction Comment 2: Sheet P5.0 wall/floor section detail code reference outdated.  
Revise

Correction Comment 3: SHeet P5.0 International "NO DIVE" symbol to be red in color

FBC 454.1.2.3.1 par.6

Correction Comment 4: Sheet S1.0 Skimmer detail code reference outdated  
Revise

Correction Comment 5: Spa section code 454.1.8.1 text references 64 E9.006(1)(d)3. This text is from previous code and not FBC Fifth Edition 2014.  
Revise and update requirements for slip resistant tile.

Correction Comment 6: Sheet S1.0 spa therapy line listed at 120 GPM. Sheet S2.0 therapy pump on equipment list labeled at 140 GPM.  
Correlate to assure collector tank gallonage is appropriate at 200 gallons.

FBC 454.1.8.6.2

Correction Comment 7: Emergency drainage required for wading pool.

FBC 454.1.7.5

Correction Comment 8: This review shall be considered incomplete pending receipt of requested and required information. Subsequent review(s) may reveal additional deficiencies.

**Rejected Review: FEMA Review**

**Reviewed By: Tim Rygiel**

**Phone:239-252-2455    Email:TimothyRygiel@colliergov.net**

Correction Comment 1: AE 10.50 NAVD flood zone. All equipment must be above BFE. Provide equipment area elevation.

**Rejected Review: Electrical Review**

**Reviewed By: David Engelhart**

**Phone:239-252-5723    Email:davidengelhart@colliergov.net**

Correction Comment 1: Provide a separate permit application for each of the other 2 pool structures as required by FBC 105.

Correction Comment 2: Please coordinate ALL of the electrical panel indications for the intended service phase and voltage as required by FBC 107.2.1. The riser diagram on page E1.0 seems to indicate a 3 phase 120/208V utility transformer and conductors to feed a single phase 120/240 volt 1 phase panel where all of the other indications on this page are for 120/208 volts 3 phase. Further, pages P6.0, S2.0 and WP2.0 indicate single phase 120/240 volt panels (and loads) being fed with 3 phase feeders from page E1.0.

Correction Comment 3: Please provide an equipotential bonding plane (detail) for each of the 3 pool structures as required by FBC 107.3.5 indicating compliance to NEC 680.26(B)(2).

Correction Comment 4: Please provide applicable GFCI protection for the pool pump motors as required by NEC® 680.21(C).

Correction Comment 5: NOTE: This review shall be considered incomplete pending receipt of the information requested.

NOTE: This plan has been reviewed per the 2011 edition of NFPA 70 publication of the National Electrical Code (NEC®) and the 5th edition (2014) of the Florida Building Code (FBC) that became effective June 30, 2015.

NOTE: If any part of the electrical information is signed and sealed by a design professional, then any subsequent correction or revisions to that plan are to be signed and sealed by that person.

**Rejected Review: Health Review**

**Reviewed By: Rachel VanBlaricom**

**Phone:239-252-5524    Email:Rachel.VanBlaricom@flhealth.gov**

Correction Comment 1: For Pool:

1) filtration system is sized for at least 1 gpm per living unit for transient or 3/4 gpm per living unit for non-transient (Max size 225 gpm filtration). However:  $330 \text{ units} \times 0.75 = 247.5 = 248 \text{ gpm}$  minimum required flow.

2) Gutter drain system capable of handling 100% of recirculation flow (16 grates @ 14 gpm = 224 gpm) - minimum required flow 248 gpm (see #1 above)

3) Recirculation/filtration equipment is designed to provide at least 4 turnovers pool volume per day ( $224 \text{ gpm} \times 60 \text{ min/hour} \times 4 \text{ hours} = 53,760 \text{ gallons}$ ; Pool is 59,600 gallons).

4) Design of recirculation flow of pool with overflow gutters is 100% through main drain and 100% through gutter piping (Gutter

design cannot handle 248 gpm required - see #1 and #2 above).

5) Number of inlets handle the recirculation flow with a maximum flow of 20 gpm/inlet (12 inlets x 20 gpm = 240 gpm max flow; 248 gpm required - see above).

6) Pools greater than 30 feet wide have floor inlets only or combination of floor and wall inlets (no floor inlets provided).

7) Automatic water make-up control and manual pool fill spout are provided to discharge into collector tank with air gap (specs not on plans).

8) Pressure piping is sized such that flow velocity does not exceed 10' second at designed flow rate (3-inch return = 220 gpm max flow; 248 gpm required - see above).

9) Suction piping is sized such that flow velocity does not exceed 6' second at designed flow rate (4-inch tank-to-pump line = 235 gpm max flow; 248 gpm required - see above).

10) DE filter is sized such that the filtration does not exceed 2 gpm/sq.ft: 25 grids = 112.5 sq. feet = Max flow of 225 gpm (248 minimum required flow - see above).

11) Bathing load is computed based on 1 person per 5 gpm of recirculated flow (Current 220 gpm = 44 persons, not 50) If flow is changed to 248 = 49 persons/250 = 50 persons.

Correction Comment 2: For Spa:

1) Dark, contrasting slip-resistant tiles are provided for intersection of tread and riser for entire length of step (no specs on plans);

2) Underwater bench seats utilize slip resistant tile marking along the horizontal and vertical surface (bullnose tile may be used) (no specs on plans);

3) Pools with skimmers have handhold in deck or curb construction which is not more than 9 inches above midpoint of skimmer (specs/distance not provided in plans);

4) Collector tank with effective capacity of at least 1 minute of design flow rate (AND THERAPY RECIRC FLOW) (Therapy Suction = 235 GPM/Therapy Return = 220 GPM + 70 GPM Recirc flow exceeds 215 gallon tank size).

5) Clock must be visible from spa (not shown on plans);

6) Provide correct filter size (Plans state PLM 300 = 200 sq. feet -- not true).

Correction Comment 3: For Wading Pool:

1) Pool floor shall not be more than 12 inches below deck unless steps AND handrail provided (depth 18 inches/2 feet) - no handrail on specs.

2) Automated ORP and pH controller with sensing probes shall be provided (not specified on plans);

3) Underwater bench seats are 14-18 inches wide and have 2 inch wide dark contrasting slip resistant tile marking along horizontal/vertical surface (slip-resistant bull-nose tiles may be used) (not specified on plans);

4) Pools with skimmers have handhold in deck or curb construction which is not more than 9 inches above midpoint of skimmer (distance not specified on plans);

5) A wall inlet fitting is directly across from each skimmer (not on plans);

Correction Comment 4: Diaper changing table required in each restroom (not specified on plans).

Correction Comment 5: Separate DH 4159 forms must be submitted for each body of water. Provide appropriate specs for each body of water (pumps, filters, chemical feeders, etc.)

**ATTENTION:**

Collier County Plan Review and Inspections routinely reviews all outstanding permit applications in order to determine their status. The review process includes appropriate responses from the permit applicant when the permit cannot be approved. When the applicant is advised of deficiencies and does not respond within **180 days** with corrected plans or an appeal to the Code Enforcement Board, the permit application will be canceled as per **Collier County Ordinance 2002-01, Section, 104.5.1.1 to 104.5.1.4 (as amended)**.