



ROTOLO CONSULTANTS INCORPORATED

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Project Name: Patio Villa Apartments
Project Address: 3340 Arnoult Street
New Orleans, Louisiana 70002

Owner Name: Apartment Homes by Tonti
Owner Address: 2723 North Hullen Street
Metairie, LA 70130

For: Apartment Homes by Tonti
Date: 8/3/2016

Mr. Brandon Comeaux E.I.,

In response to the letter dated June 10, 2016 regarding concerns to be addressed or clarified within the plan set being reviewed for a pool renovation at Patio Villa Apartments, the following is noted:

1. The completed engineering services permit application form for the project is attached within this letter for ease of reference, as well as included as a separate file.
2. The pool has a normal flow rate of 116 GPM without the deck jets in use, and a 92.8 gpm flow rate with the deck jets in use. The pool design data table located on sheets G-1.0, and PL-1.1 reflect the design flow rates of each pipe with each scenario accordingly. Each pool return (floor and wall inlets) can safely operate at the velocities and flow rates listed. Should the deck jets valve be cut off, the system is producing 116 GPM, with each inlet receiving about 15.47 GPM flow rate safely. Redirection of the water for the deck jets will not appreciably affect the circulation velocities in the pool (see water feature piping diagram on plan sheet PL-1.4). A flow meter dedicated for the inlets, and for the deck jets allows for proper flow rates as listed on the plan set. All deck jets and return inlets are shown to distributing filtered and treated water.
3. Per LAC.51:XXIV.323.J, construction joints where pool coping meets the concrete deck shall be water tight, and shall not allow water to pass to the ground beneath.
4. No overflow line will be connected in any way to the sewer system or storm drainage system.
5. Main drain suction lines are sized at 3" with a maximum calculated velocity of 5.63 FPS, and skimmer suction lines are sized at 2.5" with a maximum calculated velocity of 3.79 FPS. Per LAC.51:XXIV.5.3.A, the water velocity for all return pool piping is not to exceed 10 FPS, and all suction piping for the pool is not to exceed 8 FPS. The pool recirculation system has a total calculated head of 75 ft, and the pump safely allows for a total head of 77 ft.

6. Manufacture cut sheets for main drain covers showing VGB, ANSI/APSP compliance are shown on plan sheet PL-1.4. There will be no Skimmer EQ lines on this design, and there will be no need for the anti-entrapment suction covers due to not having any EQ lines.
7. With a 3" main drain suction pipe rendering a total open surface area of 9.12 square inches, and each 9 inch square main drain cover having 36.80 square inches of open surface area, each main drain cover exceeds the minimum 36.48 square inches (4 times of the 3" main drain suction pipe) of open surface area and is within full compliance of LAC.51:XXIV.511.C.1.
8. The Pool will be outdoors.
9. The pool equipment room is an existing equipment room. The existing pool equipment room currently facilitates inside air being exhausted to the outside atmosphere. This will remain in place, and within full compliance of the LAC.51 swimming pool code.
10. The source for chemically treating the filtered pool water will be through use of an inline chlorinator, which can be shown on plan sheet PL-1.4 in the pool schematic.
11. The deck jet flow rate will be controlled via multiport valve. The flow rate for the deck jets will be monitored via a dedicated flow meter. Currently the designed flow rate for the system is designed at 116 GPM when deck jets are being used and 92.8 GPM when deck jets are not in use. Deck jets use 22 GPM, which is under the maximum 23.2 GPM (20% of 116 GPM) in accordance with the Letter of Intent from the State Health Officer Concerning Deck Jets, item #3.

Travis Heathman
Project Coordinator
Rotolo Consultants Inc.]