



March 20, 2015

Mr. Travis J. Heathman
RCI
894 Robert Blvd.
Slidell, LA 70458

RE: Springs at Fremeaux Town Center Drawings
Swimming Pool Layout Plan & Notes, Sheet PL-1.0, Detail 04 Typical Grounding /
Bonding, Construction Addendum

Mr. Heathman,

In reference to the above captioned project the following information is presented to clarify additional pool construction parameters.

The referenced pool shall be constructed utilizing a steel grid matrix of Number 4 (#4) bar size steel rebar, grade 40 conforming to ASTM A615, (rebar with protrusions to provide a mechanical bond) spaced 10" on centers to insure the structural integrity of the pool shell. Steel rebar must be held in place (tied) to prevent movement & vibration.

There shall be a minimum clearance between parallel running reinforcement bars of 2 1/2 inches.

The concrete shell of the pool shall be a spray shotcrete type, either wet-mix or dry-mix. (Dry-mix type is commonly referred to by the onetime trademark name of *Gunite*.) The thickness of the pool sides and bottom shall be a minimum of 6 inches. Surrounding deck, (a minimum of 4' from the pool edge) shall be 4" thick reinforced concrete.

Compressive strength for pool shell shall meet ASTM C109 / ASTM C39 :

	Shotcrete Fine	Shotcrete MS Fine	Shotcrete MS Coarse	Shotcrete MS Fine w/polypropylene fiber	Shotcrete MS Coarse w/Steel Fibers
1 day	1500 psi (10.3 MPa)	1750 psi (12.1 MPa)	1750 psi (12.1 MPa)	1750 psi (12.1 MPa)	2500 psi (17.2 MPa)
7 days	3050 psi (21.0 MPa)	3500 psi (24.1 MPa)	3500 psi (24.1 MPa)	3500 psi (24.1 MPa)	4000 psi (27.6 MPa)
28 days	5075 psi (35.0 MPa)	5500 psi (37.9 MPa)	5500 psi (37.9 MPa)	5500 psi (37.9 MPa)	7000 psi (48.3 MPa)

Overlap of steel bars, especially around corners, side to bottom, side to deck, and linear extensions shall be a minimum of 18" overlap and secured in such a manner to prevent movement.

Pool facets such as inlets, outlets, drains, lighting fixtures and additional appurtenances shall be supported by diagonal grids (#4 rebar) superimposed on the 10" grid matrix. Diagonal grids shall be secured in such a manner as to prevent movement.

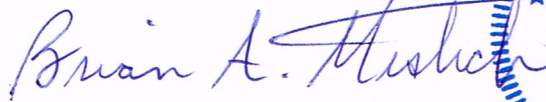
Care shall be taken so that reinforcement bars shall be free from mud, oil or other nonmetallic coatings that decrease the concrete/rebar bond.

Stratum Engineering, LLC Geotechnical Engineering Report specifying soil makeup at the proposed pool location indicates groundwater at the 6 ½ foot level. The ground beneath the proposed pool location shall be dewatered to the 12' level. Soil should be removed down to the eight foot (8') level. Two feet (2') of structural sand should be placed between the 6' to 8' foot levels and compacted to 95% proctor. The pool base shall rest upon a minimum of 6" of gravel or crushed limestone.

If the pool is raised 3' above ground level, dewatering is not necessary.

Should you have any questions or if further information is required, please feel free to contact Dammon Engineering, Inc .

Respectfully,



Brian A. Mistich, P.E.