

Jordan Lions Park Pool Requirements

Submitted: Tuesday, August 6th, 2019

1. Pre-manufactured lap pool / leisure pool combination with dimensions of 25.0m x 15m (including ramp entry) for the lap area
 - a. Staff will be exploring the potential of a leisure area with beach entry (size TBD).
 - b. Entire pool is to be with an overflow gutter profile
2. Pool is to have a maximum water depth of 1.8m, and a minimum water depth of 1.0m in the lap area
3. Pool system is to account for lane line and wall targets for five lanes.
4. Pool system is to account for integral lane rope anchors, five for racing lanes required for lane swimming, and slope break delineation.
 - a. Additional anchors may be required. These will be confirmed before the permanent installation in Lincoln. Anchors are to be stainless steel T316L.
5. Pool system is to be of T316L marine grade stainless steel manufacture, including but not limited to pool wall panels, overflow gutter profile, any and all support structures such as buttresses, plates, stiffeners, braces, and any mechanical fasteners to be used in either installation.
6. No dissimilar metals or distinct grades of stainless steel will be acceptable within the pool system. All stainless-steel components, including but not limited to structural elements, are to be warrantied by the manufacturer for a minimum of 25 years regardless of any installation scenario such as above ground, in-ground, indoor, outdoor, backfilled or corridor scenarios.
7. Pool system interior finishes are to be based upon stainless steel (see above) and/or flexible, commercial grade PVC membrane (see below).
8. Pool walls and overflow gutters will be polished to #3 grade and floor will be PVC membrane with extruded PVC safety padding beneath. Pool finishes are to be warrantied by the manufacturer, for a minimum of 15 years and pool structural elements are to be warrantied for 25 years.
9. Pool system waterproofing, Alkor T2000 membrane, shall be warrantied by the manufacturer for a minimum of 15 years.
10. The pool system shall employ no PVC fittings that are not absolutely required (such as inlets, gutter grating, gutter dropouts, main drain sumps or main drain covers), or coping, grab edges, or other feature and shall only employ GPM Polymer or HDPE materials. The manufacturer will warranty these GPM Polymer or HPDE materials for a minimum of 15 years.
11. Pool system is to account for circulation system (inlets) that is sized to the design water volume, pool shape, depths and size of pool mentioned above. Inlet flow rates and quantities shall be pre-designed to the requirements defined by code.

Water circulation shall be pre-designed to provide a minimum 4-hour turnover rate and proper circulation with no dead zones.

12. The pool will have recessed ladders, three in total, that require grab rails. Grab rails, whether deck mounted or gutter mounted, shall be of T316L stainless steel only. Anchors for this item will also be T316L SS with grounding lugs.
13. The pool will have stanchion posts. These stanchion posts, whether deck mounted or gutter mounted, shall be of T316L stainless steel. Anchors for this item will also be T316L SS with grounding lugs.
14. Pool filtration based upon high rate sand filtration or vacuum sand filtration, with the selection of this system being at the option of the Town of Lincoln.
15. Pool system is to account for new, unused main drain sumps and covers. Main drain flow rates and VGB compliant covers shall be that is sized to the design water volume, pool shape, depths and size of pool mentioned above. Preference will be given to the proposal that can eliminate all piping under the pool floor.
16. Hydrostatic valves are to be supplied and installed with the main drain sumps to be pre-installed.
17. Secondary drains under the PVC floor membrane are to be provided.
18. Preference is to have the pool system that does not require perimeter piping. The ideal scenario is to provide, from the pool mechanical systems, one connection to the pool for inlets, one connection to the pool for main drains, and one connection to the pool for gutter dropouts. Circulation piping should be integral to the stainless steel pool system itself.
19. Pool system is to be pre-designed in such a way that a separate surge tank is not required. Any surge capacity required is to be managed by the overflow gutters, with a preference of a in-gutter weir system, the filtration system, or a combination of both.
20. Pool system (including flow rates and quantities) should be designed to meet or exceed all current applicable codes, regulations and laws for Ontario and for Canada (ie. municipal, provincial, federal etc.).
21. The supply and installation of the pool systems must be from a qualified commercial swimming pool installation contractor that is acceptable to the Town of Lincoln. Preference will be given to the installation contractor that best demonstrates a strong ability to respond to any concerns and has ready access to replacement part stock in North America. The ability to ship any required parts or materials on a next-business-day basis is required.
22. The pool system is to have every precaution taken to ensure a best possible product (like new) is maintained during the design, install, transport, packaging and re-install of any components to be used in the Town of Lincoln. A full warranty from the manufacturers and the installation contractor is to be extended to the Town of Lincoln regardless of any issues or errors that may have occurred before being delivered to the Town. The Town will conduct an inspection before installation at the Canada Games and during disassembly/packaging and any repairs or replacement of parts deemed necessary shall be affected before final delivery and acceptance by the Town.

23. Pool mechanical system is to include an appropriately sized gas heating system, complete with heat exchanger, and with a design capacity to reach 29 degrees Celsius from 11 degrees within maximum one week's time.
24. Ramp entry and beach entry are to have T316L marine grade stainless steel handrails.
25. All pumps within the pool mechanical systems are to be of non-corrosive materials, commercial grade and supplied with VFD's.

Note: For **all** aquatic equipment (ie. filtration system, treatment system, heater etc.), Lincoln requires that the following information be included and specified:

1. Brand/Manufacturer
2. Design Specifications
3. Dimensions
4. Warranty