

## **RFB Outdoor Pool Repair and Maintenance:**

The City of Wheat Ridge is requesting bids for a repair and maintenance project at the Wheat Ridge Municipal Pool, located in Anderson Park at 4355 Field Street. The pool consists of one **2959 square foot** family zero depth entry pool and one 25 meter, 8 lane lap pool and a separate slide splash down pool.

### **Family Pool Description**

The family pool is 2959 square feet in size and has the following amenities: Hydro Tower, small slides, flower, deck gun, trio of fun, aqua arch, geysers, mushrooms, tap in tunes, water cage. There are three steps that run the length of the east end of the pool. The surfacing is a combination of plaster and Diamond Brite.

### **Lap Pool Description**

The lap pool is a 25 meter, 8 lane pool. It is 4507.50 square feet with a separate 350 square foot splash pool for a large slide. The lane designations and targets are tile and there is a 3 meter diving board. The depth of the pool is 5.0' to 12.0'. The surfacing is currently plaster.

The Scope of work for the family pool includes the following:

#### 1) Hydro Tower

Removal and disposal of the Wizard Works Odyssey hydro tower Recycle structure. Recycle compensation is to be credited back to the owner.

Replace existing structure with a mushroom spray feature with a compatible flow rate as the existing hydro tower structure. Remove all existing components that are not necessary to the operation of the leisure pool or the existing play features. Cap or remove all unnecessary plumbing.

Replumb existing pump to accommodate new mushroom toy and deck water cannon.

#### 2) Deck Water Cannon

Replace with low pressure spray cannon. Hydro tower and spray canon were originally connected to the same pump.

#### 3) Trio of Fun by Raindrop

Paint and replace (dump spray) actuator. Replace crossbar jet head with sheet spray head, and replace base covers. Replace broken attached skirt and gaskets.

4) Small Water Slides

Replace small water slides to comply with applicable safety standards and safe operation.

There are currently two small slides in this area. The drop does not meet safety standards.

5) Flower

No repairs required

6) Water Odyssey Aqua Arches

Repair solenoid valve and ensure the Water Odyssey WDC controller is working properly. (Exhibit D)

7) Depth Chargers on pool floor:

Remove structures and fill in holes. Cap and remove any unnecessary plumbing and fixtures.

8) Mushrooms Maze By Water Odyssey

Repair the WDC controller and ensure actuator is working properly. Mushroom Maze, Bubbler and Water Wave are all connected to the same system.

9) Water Cage

Remove Water cage and cap/remove appropriate plumbing. Smooth surface area for application of nonskid spray splash pad finish. Leisure Pool Diagram shows location of Water Cage.

10) Tap N Tunes

Repair tap and tune play structure. Repair or replace music modules and non-working actuators. Repair speaker functionality. Leisure Pool Diagram shows location of Tap N Tunes. Specification for this toy cannot be located, it may no longer be available, owner will accept recommendation for removal if it cannot be repaired.

11) Shade Umbrella - Large

Add two additional umbrella shade structures onto the deck, use existing shade umbrella brand currently on the deck – Umbrella from Anchor Industries. Pool Umbrellas -Anchor Industries Classic 20' Blue and White

## Pool Floor

Level pool floor, coping and gutter gratings. Gutter gratings not skimming correctly.

### **Resurface Specifications for Lap pool, splash down, and leisure pool and repair tile.**

All Pools are to be resurfaced using an aggregate product similar or equal to Diamond Brite. The pools will need to be properly cleaned, prepared and resurfaced with aggregate product and troweled for smoothness.

- Pools will need to be prepared according to the accepted aggregate installation manual, most current edition, including, but not limited to: chlorine washing for the removal of algae, mold and mildew; removal of all oil or grease and water, etching the surface with muriatic acid and water. (Testing of oil and grease residuals must be done prior to application of aggregate. Soaking of heavily saturated grease or oil areas with liquid detergents may be necessary), all water penetration due to hydrostatic pressure must be stopped.
- All pool inlets and main drain lines should be plugged to prevent clogging during resurfacing and exposure.
- Undercut all existing tile and fittings 2" away and 3/8" deep into the existing plaster.
- Sound cut and remove all hollow areas and delaminated plaster. Fill all hollow spots to bring area level.
- One coat of aggregate surface of 1/2" thick, but no less than 1/4" shall be applied and troweled to a smooth finish.
- Replace and install any broken grates/covers with new grates.
- Any broken covers must be VGB drain cover compliant.
- In addition, meet requirements of applicable portions of most current edition of the "Technical Manual," National Plasterers Council. Repair demarcation tile including, but not limited to, tile used for transitional lines, lane lines, depth markers, lane line targets stair lines in accordance with local and state codes. Allow full cure time per material manufacturer's specification before allowing any water to touch material. Remove loose tile and fittings; undercut existing plaster 2 inches below the tile line, and around return lines and fittings. Plug cracks and leaks around fittings using hydraulic cement. Examine pool surfaces to identify conditions that might interfere with proper bonding of coating. Look for algae, mold, mildew, dirt, paint, patching compounds, loose tile, cracked plaster, etc. Identify hollow spots in plaster by sounding. Clean pool surfaces of all material that might interfere with proper bonding of coatings. Clean with high-pressure water or by sand blasting. Remove all cleaning solutions via high-pressure washing.