



April 2, 2021

Todd Dumler
McCownGordon Construction
Wichita, Kansas

Re: Splash Pad/Equipotential Bonding Test
Big Pool/Garden Rapids

Todd,

Per the Teams request, we had a third-party testing agency come and test the existing Splash Pad At the Garden Rapids/Big Pool project. The testing agency was able to perform two types of test, Fall of Potential test and a Point to Point Ground resistance test.

Fall of Potential- One end of the ground resistance meter is connected to the existing #6 bond wire by the splash pad, the other end is connected to a probe that is stuck in the ground at 10' intervals away from the #6 bond wire, and a resistance measurement is calculated with the meter. Per the report, the fall of potential test does meet applicable standards.

Point to Point- One end of the ground resistance meter is connected to the existing #6 bond wire by the splash pad, and the other end is connected to the water features one at a time. The meter calculates the resistance value(measured in ohms), the value cannot exceed .5 Ohms per NEC. Per the report, the point to point test **DOES NOT** meet applicable standards. **7 out of the 12** water features show that there is NO connection to the bonding plane at all.

Wallace Electric did perform its own auxillary test, We tested bond continuity between most of the features as well. Over half of the tests came back negative or over the allowable standards. Some of the features seem to not be connected to each other or the ground at all.

It is my professional opinion that the existing Splash Pad does not conform to Article 250, and Article 680 of the National Electrical Code. We cannot guarantee that the grounding of the existing features was installed correctly, or corrosion of the bond wire has severed the wire in two. Wallace Electric will not be able to connect the New grounding bond plane to the existing Splash Pad ground bond plane without a "Hold Harmless" agreement.

Respectfully Submitted,

Alex Wallace

Alex Wallace
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Garden City, Kansas 67846

