

23rd Avenue WWTP MCC-12 Replacement (Digesters' MCC)

Project Name:	23 rd Avenue WWTP MCC-12 Replacement (Digesters' MCC)
Location:	23 rd Avenue WWTP, Phoenix, Arizona
Owner:	City of Phoenix Water Services Department
Project Construction Cost:	\$350,000

Project consisted of designing replacement of an existing Motor Control Center in place without affecting the power distribution or the control mechanism. As-building of several systems was necessary since no accurate record drawings were available. Field investigation was vital to account for various power and control circuitries. Design also had to minimize downtime.

Project includes the following electrical and I&C feature:

- 600 Amps Motor Control Center with Main-Tie-Main Breakers
- Ten MCC sections with motor circuit protectors and circuit breakers

Control schematics were design for the following:

- Sludge heating and hot water circulating pumps
- Boilers and grinders
- Motorized valves
- Various exhaust fans

