

**FAC 8435 WATER TANK, FIRE PROTECTION**

FY24 SUC:                \$0.06 / GA  
Source:                 Calculated using R.S. Means CostWorks 2023 Qtr 4 component prices

FAC 8435 WATER TANK, FIRE PROTECTION

Release 2023 Qtr 4

UM GA

Zip Code Prefix 222

Design Life 50

Type MR

Average Size 156766.78827

SUC \$0.06

Adjusted Occurences are the occurrences remaining after subtracting Repair/Replacement Overlaps. Overlap reduction removes a repair when it occurs the same year as a replacement.

| Description  | Frequency | Qty Unit    | Total In-House | Total Incl OP | Design Life/Frequency | Occurrences in Design Life | Adjusted Occurrences | Life Cost    | Adjusted Cost  |            |
|--|-----------|-------------|----------------|---------------|-----------------------|----------------------------|----------------------|--------------|----------------|------------|
| Replace steel decking  | 30        | 398.00 S.F. | \$2,349.96     | \$2,730.41    | 1.6667                | 1                          | 1                    | \$2,730.41   | \$2,730.41     |            |
| Replace old valve, non-drain, 8"   | 10        | 2.00 Ea.    | \$14,362.64    | \$16,591.38   | 5.0000                | 5                          | 5                    | \$82,956.90  | \$82,956.90    |            |
| Insp/chk pump/mtr oper, lub, chk align circulation pump, 3 HP              | 0.5       | 1.00 Ea.    | \$13.62        | \$17.05       | 100.0000              | 100                        | 100                  | \$1,705.22   | \$1,705.22     |            |
| Remove old meter, install new water meter 8"                               | 25        | 2.00 Ea.    | \$26,727.88    | \$30,997.26   | 2.0000                | 2                          | 2                    | \$61,994.52  | \$61,994.52    |            |
| Maintenance and repair breaker, molded case, 480 V, 2 pole                 | 20        | 2.00 Ea.    | \$151.68       | \$190.03      | 2.5000                | 2                          | 2                    | \$380.07     | \$380.07       |            |
| Replace safety switch, heavy duty 200 A                                    | 25        | 4.00 Ea.    | \$9,051.10     | \$10,625.82   | 2.0000                | 2                          | 2                    | \$21,251.63  | \$21,251.63    |            |
| Maintenance and repair of general wiring lightning protection system       | 1         | 0.20 M.L.F. | \$21.90        | \$26.98       | 50.0000               | 50                         | 50                   | \$1,348.87   | \$1,348.87     |            |
| Maintenance and repair voice/data outlet                                   | 10        | 1.00 Ea.    | \$54.32        | \$67.84       | 5.0000                | 5                          | 5                    | \$339.21     | \$339.21       |            |
| Prepare & paint 250K gal. ground level water stor tank, 40' dia x 27' tall | 10        | 0.65 Ea.    | \$39,469.95    | \$47,112.91   | 5.0000                | 5                          | 5                    | \$235,564.56 | \$235,564.56   |            |
|  |           |             | \$92,203.05    | \$108,359.69  |                       |                            |                      | MR Subtotal  | \$408,271.39   |            |
|  |           |             |                |               |                       |                            |                      |              | MR Per Year    | \$8,165.43 |
|  |           |             |                |               |                       |                            |                      |              | PM Total       | \$1,499.42 |
|  |           |             |                |               |                       |                            |                      |              | Subtotal       | \$9,664.85 |
|  |           |             |                |               |                       |                            |                      |              | Total Per Unit | \$0.06     |

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SUC \$0.06

Release 2023 Qtr 4

UM GA

Zip Code Prefix 222

Design Life 50

Type PM

Average Size 156766.78827

| Description                                   | Qty  | Labor Hours | Bare Mat | Bare Labor | Bare Equip | Bare Total | Total In-House | Total Incl OP |
|---|------|-------------|----------|------------|------------|------------|----------------|---------------|
| Panelboard, 225 A and above, annualized       | 1.00 | 0.44        | \$22.00  | \$30.41    | \$0.00     | \$52.42    | \$63.74        | \$76.16       |
| Storage tank, ground level, annually          | 1.00 | 0.72        | \$19.76  | \$37.60    | \$0.00     | \$57.37    | \$70.62        | \$84.87       |
| Water flow meter, turbine, annualized         | 1.00 | 0.59        | \$18.72  | \$30.42    | \$0.00     | \$49.14    | \$60.14        | \$72.08       |
| Reservoir controls, annualized                | 1.00 | 8.86        | \$42.30  | \$456.30   | \$0.00     | \$498.60   | \$639.72       | \$782.96      |
| Vertical lift, over 1 H.P., annualized        | 1.00 | 1.46        | \$46.46  | \$75.63    | \$0.00     | \$122.09   | \$149.43       | \$179.08      |
| Cathodic protection system, annualized        | 1.00 | 1.46        | \$26.08  | \$83.23    | \$0.00     | \$109.31   | \$136.89       | \$165.77      |
| Circuit breaker, high voltage air, annualized | 2.00 | 0.94        | \$27.66  | \$64.95    | \$0.00     | \$92.61    | \$114.86       | \$138.50      |
|   |      |             |          |            |            | \$981.54   | \$1,235.41     | \$1,499.42    |



# **FAC 8435 WATER TANK, FIRE PROTECTION**

## **Modeled Component List**

### **CostWorks Release 2023 Qtr 4**

#### **B10 Superstructure**

|               |            |
|---------------|------------|
| Steel Decking | 398.0 S.F. |
|---------------|------------|

#### **G30 Site Mechanical Utilities**

|   |          |
|---|----------|
| Ground Level Water Storage Tank 250K Gallon | 0.65 Ea. |
|---|----------|

|                                       |          |
|---------------------------------------|----------|
| Water Flow Meter, Turbine, annualized | 1.0 Each |
|---------------------------------------|----------|

|                           |          |
|---------------------------|----------|
| Vertical Lift, annualized | 1.0 Each |
|---------------------------|----------|

#### **G40 Site Electrical Utilities**

|                                 |          |
|---------------------------------|----------|
| Cathodic Protection, annualized | 1.0 Each |
|---------------------------------|----------|

FAC 8435 WATER TANK, FIRE PROTECTION  
Sustainment by Year  
CostWorks Release 2023 Qtr 4

