

Major Capital Projects



Water Resources

Energy Resources

Utilities (April 5)





Parks



Public Safety

General
Government
(April 26)



Transportation

Agenda

- Discuss Five Year Capital Improvement Program (CIP)
- Review CIP Funding
- Review Current Bond Authorization
- Review Significant Projects

Capital Improvement Program

- Multi-year plan for capital infrastructure
- Projects identified through staff analysis, contractual obligation, or council direction
- City Council appropriates funding for first year as part of the annual budget adoption process
- Individual construction contracts are brought to Council for approval throughout the year

Project Types

Funded

- Funding identified & allocated
- Programmed within five-year period

Planned

- Funding not identified
- A need to complete within the five-year period

CIP Utility Funding

Local Revenues

Revenue generated from City utility operations

Utility Revenue Bonds

 Approved by voters, debt service repaid with revenues generated from City utility operations

Operations & Maintenance

- Reviewed throughout the CIP project lifecycle
- Budgeted to ensure City can meet the operational requirements of capital improvements

Examples:

- New positions to operate Signal Butte Water Treatment Plant
- Chemical cost to treat wastewater

Status of 2014 Utility Bond Projects



Water



Wastewater



Natural Gas



Electric

WATER RESOURCES

ENERGY RESOURCES

2014 Utility Bond Programs Water, Wastewater, Natural Gas & Electric

Total

| Lifecycle Replacement/Reliability |
|-----------------------------------|
| Contractual Obligations |
| Customer Demand in Southeast Mesa |
| Customer Demand Citywide |
| System Reinforcement |
| |

| Water | Wastewater | Natural Gas | Electric |
|--|------------|----------------|-----------------|
| \$63.3M | \$24.4M | \$19.2M | \$7.2M |
| \$46.5 M | \$20.4M | | -/ - |
| \$197.3M | \$131.0M | | |
| \$8.6M | \$2.4M | \$27.5M | \$2.9M |
| 41:::::::::::::::::::::::::::::::::::: | | \$12.4M | \$16.9M |
| \$315.7M | \$178.2M | \$59.1M | \$27.0M |

Water

| Lifecycle Replacement | \$63.3M | 10 Quarter Section Waterline Replacement Projects 4 Well Projects Brown Road Water Plant Misc. Improvements |
|-----------------------------------|----------|--|
| Contractual Obligations | \$46.5M | Val Vista Pipeline Phases II & III Val Vista Water Plant Contract w/Phoenix Water Settlement Contract |
| Customer Demand in Southeast Mesa | \$197.3M | Signal Butte Water Plant CAP Raw Water Main 3 Transmission Main Projects 8 Well Projects 8 Pipeline Projects Gateway Infrastructure |
| Customer Demand- Citywide | \$8.6M | Transfer Station 3 UpgradeMisc. Waterlines |
| | CO4E 784 | |

5 Major Water Projects = \$194.3 of Total Bonds

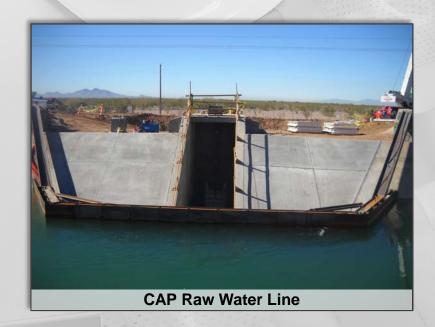




Major Water Projects



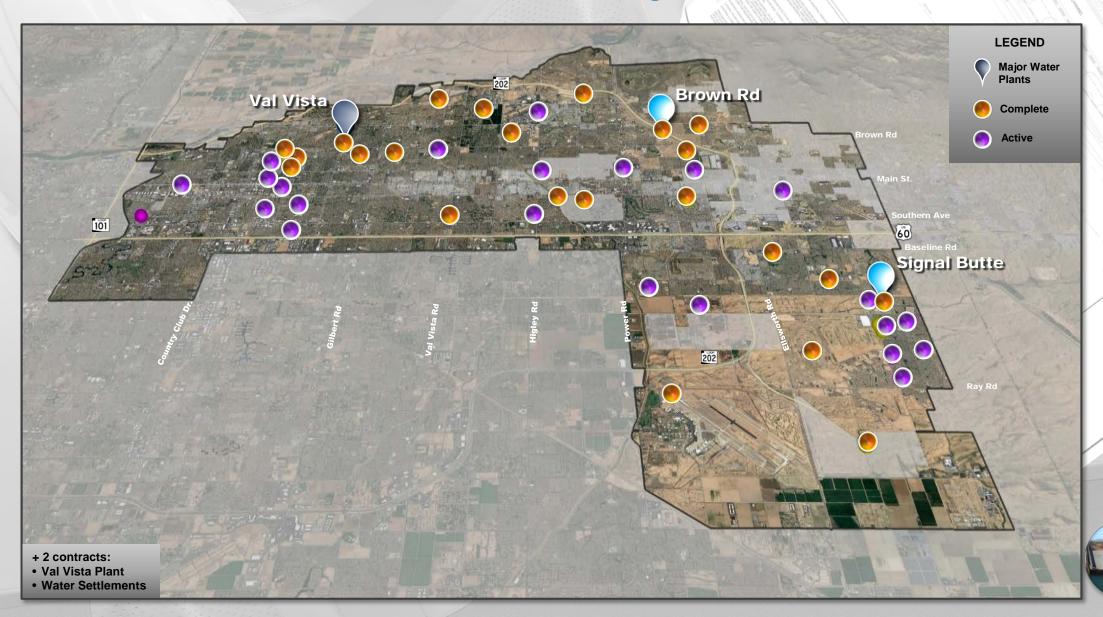








All Water Projects



Wastewater

| Lifecycle Replacement | | Miscellaneous Greenfield Water Reclamation Plant Improvements Lift Station, Pipeline & Manhole Projects Southeast Plant Rehabilitation Projects |
|-----------------------------------|----------|---|
| Contractual Obligations | \$20.4M | 91st Avenue WW Plant Mesa Share |
| Customer Demand in Southeast Mesa | \$131.0M | 8 Sewer ProjectsGreenfield WRP Expansion |
| Customer Demand-Citywide | \$2.4M | Septic to Sewer Program |

\$178.2M

Total

One Major Wastewater Project = \$125M of Total Bonds Greenfield Water Reclamation Plant





Status

Partners: Town of Gilbert

Town of Queen Creek

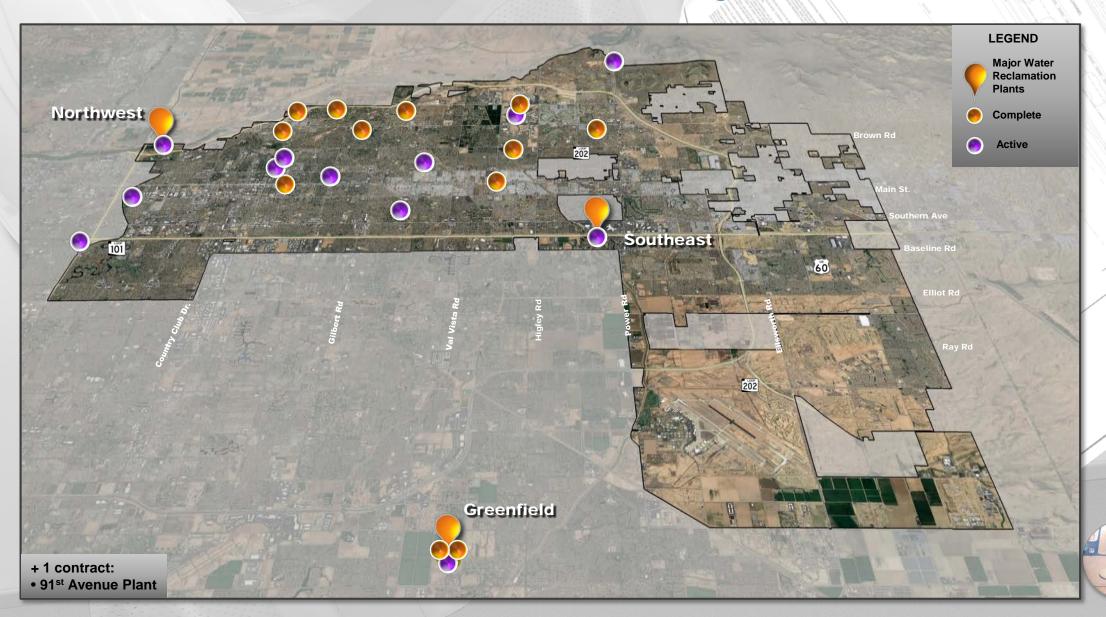
In Design Phase

Est. Construction Start: 1st Quarter 2018

Est. Construction End: 3rd Quarter 2020



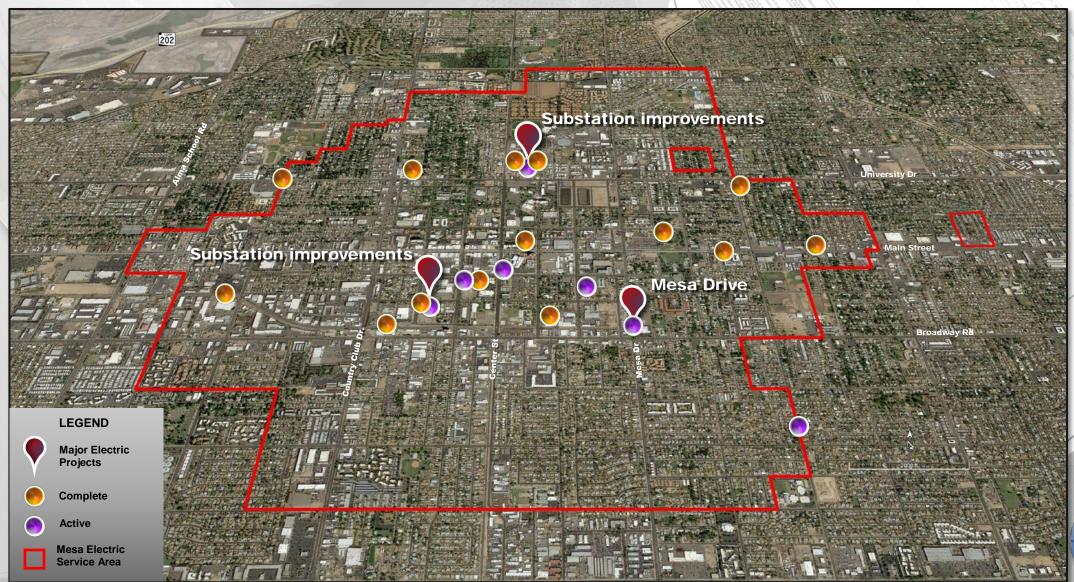
All Wastewater Projects



Electric

| Lifecycle Replacement | \$7.2M | Distribution – Overhead Transmission Substation Improvements Metering |
|-----------------------|---------|--|
| System Reinforcement | \$16.9M | Mesa Drive Phase II |
| | | Distribution-Underground |
| | | GenerationHorne Utility Replacement |
| | | Gilbert Road Light Rail Extension |
| Customer Demand | \$2.9M | New Services |
| | | Substation to Park Conversion |
| Totals | \$27.0M | |

Electric Projects



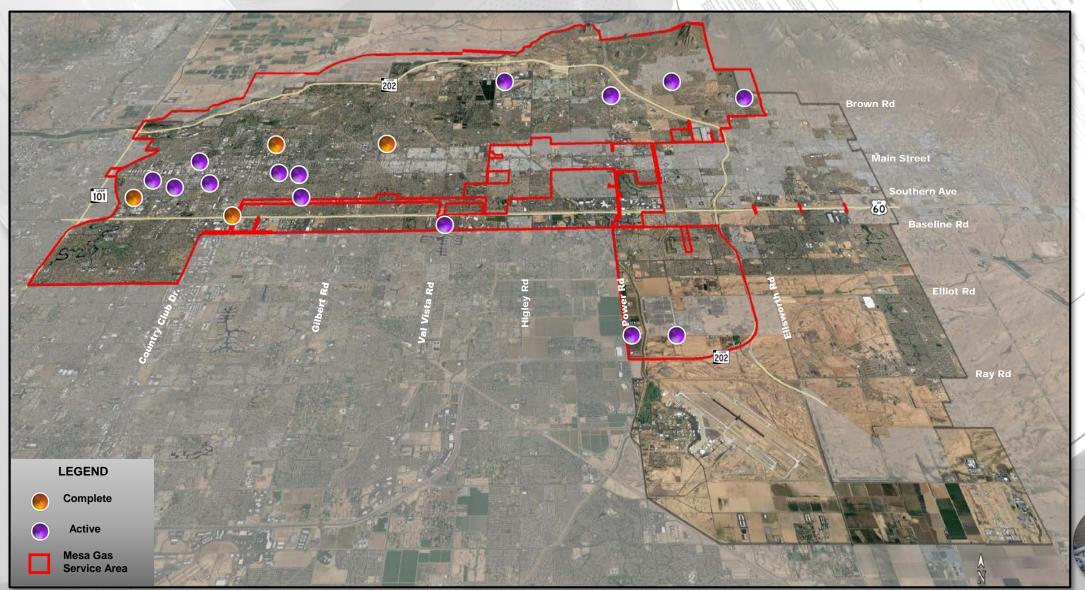


Natural Gas

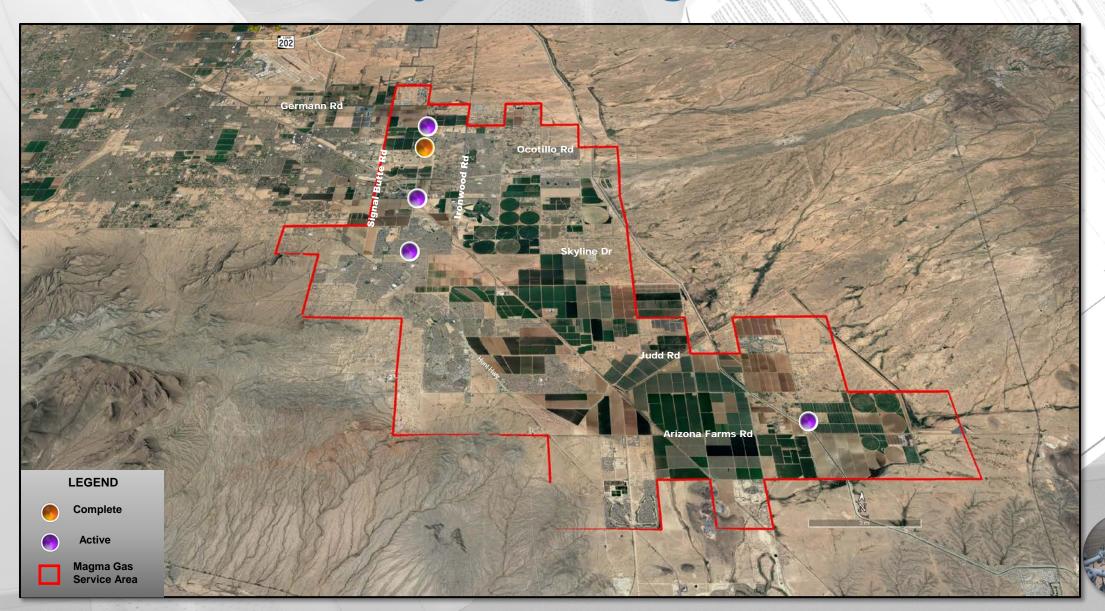
| Lifecycle Replacement | \$19.2M | Coordinated Projects Main Replacements Service Replacements Meter Replacements |
|--------------------------|---------|---|
| System Reinforcement | \$12.4M | Mains HP Mains Pressure Regulation Stations SCADA Cross Ties |
| Customer Demand | \$27.5M | New MainsNew MetersNew Service |

Totals \$59.1M

Natural Gas Projects in Mesa Service Area



Natural Gas Projects in Magma Service Area



Nature of Electric and Natural Gas Projects

PROJECT SCHEDULE DRIVERS:

 Many Natural Gas & Electric lines are under streets + Natural Gas joint-trenched with Water:

\$20M or 23% of Program

Customer Demand + New Customers:

\$30M or 35% of Program





Future CIP Bond Needs

