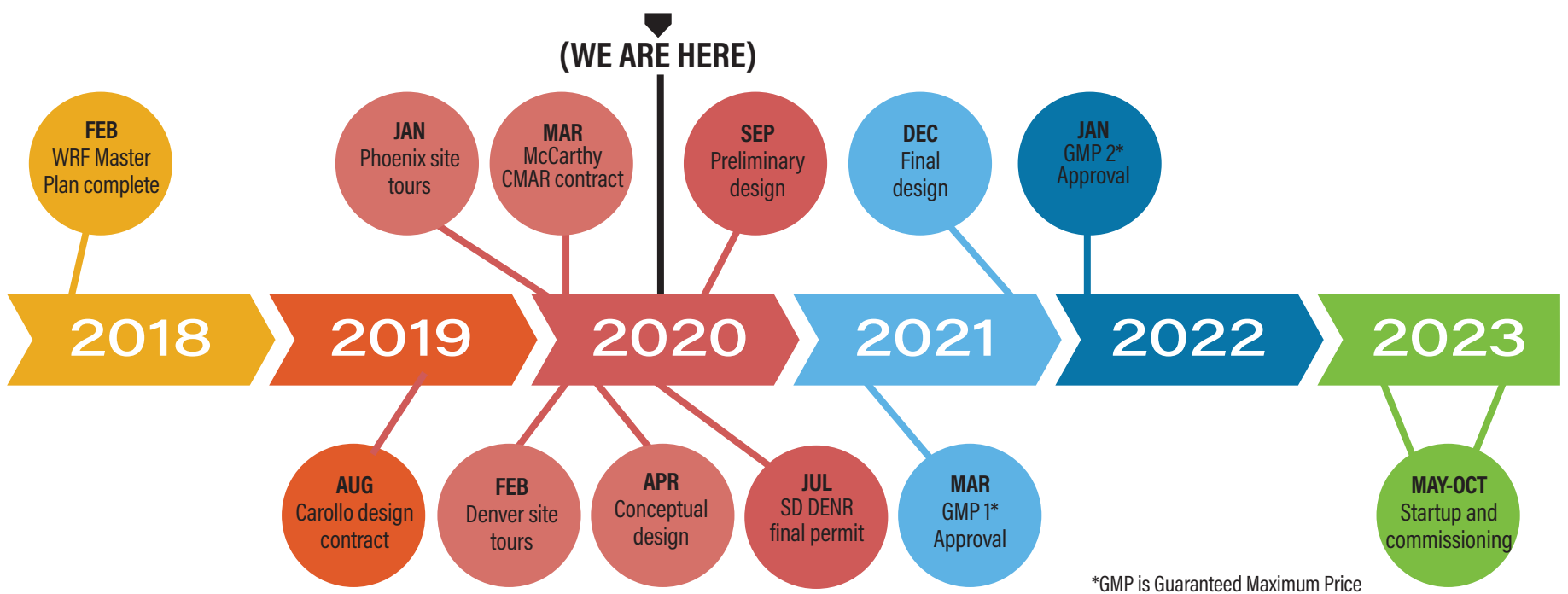


# WATER RECLAMATION FACILITY Improvements and Expansion Project



## PROJECT DESIGN APPROACH—RELI

R

### for Robust

#### Change from 5kV to 15kV Power Distribution System

- Aging system with capacity limitations.
- Consistent with other City facilities and City-stored spare parts
- Familiar Public Works Electric Light Division procedures
- Improved power distribution reliability and redundancy

E

### for Ease of O&M

#### New Dedicated Dewatering Building

- Isolated from busy portions of the plant for improved truck hauling access
- Simple screw press and conveyance system in a single story building
- Allows more cost-effective use of existing building for other needs
- Reduces overall cost of solids handling, storage, and land application

L

### for Logical Layout

#### Combined Secondary Process Pump Stations

- One common location for all major secondary process pumping systems
- Heart of the secondary process remains located in the middle of the plant
- Single power feed to all secondary pumping systems
- Easy to understand and logical to operate and maintain

I

### for Innovative

#### External Process (Anoxic Zones) for Nitrogen Reduction

- Avoids major rehabilitation of existing aeration basins
- Simplifies and improves construction sequence and schedule
- Streamlines facility startup and testing approach
- Achieves City goals and policies related to future permit regulations