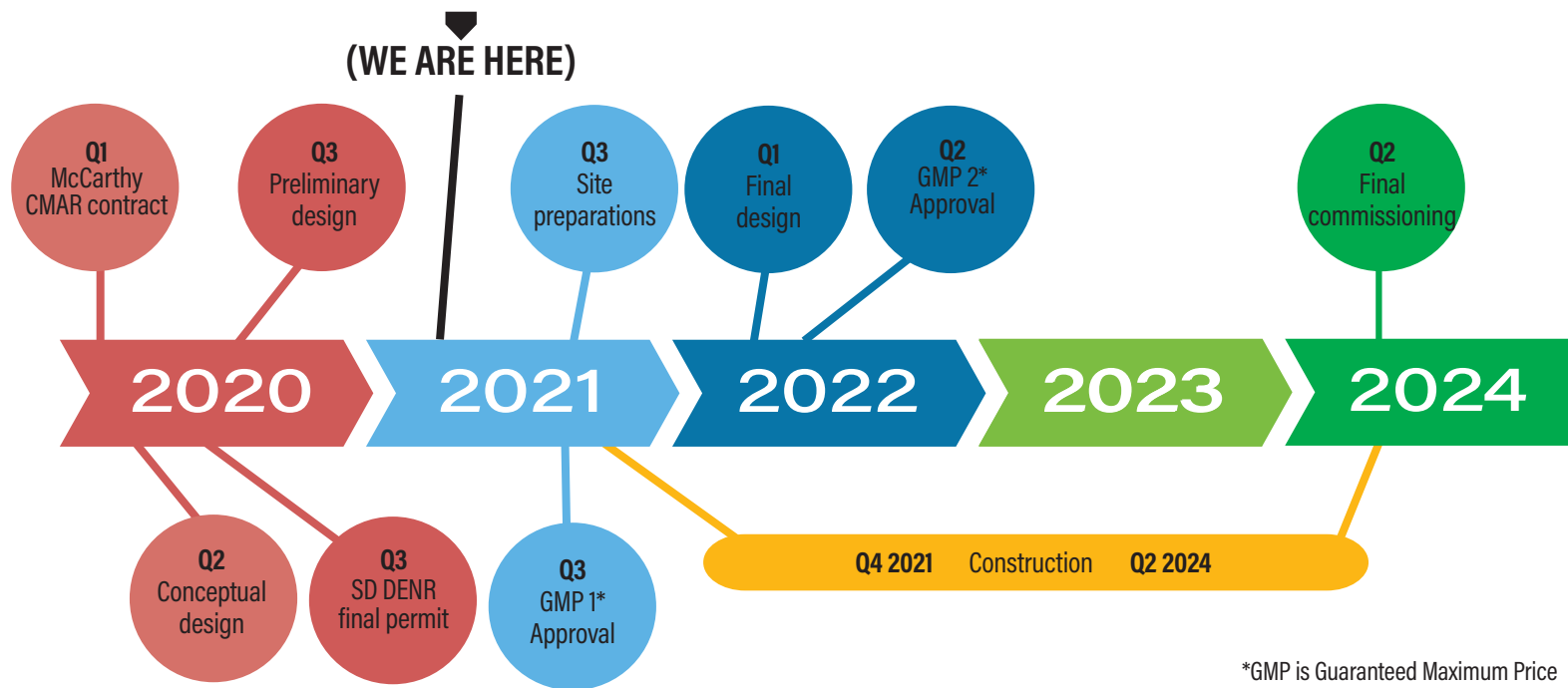


PROJECT UPDATE—MARCH 2021

WATER RECLAMATION FACILITY

Improvements and Expansion Project



*GMP is Guaranteed Maximum Price

LIQUID STREAM TREATMENT IMPROVEMENTS

Aeration Basins, Final Clarifiers, and RAS Pump Station

Aeration basins use oxygen and microbes to break down organics. The project will increase the number of aeration basins from six to nine.

Final clarifiers help sludge separate from the clarified water. This project will increase the number of final clarifiers from four to seven and allow for an additional clarifier in the future.

The RAS (return activated sludge) pump station recycles microorganisms back to the aeration basins and transports waste activated sludge to solids treatment. A new RAS pump station will be added to the existing.



Final Clarifiers and RAS Pump Station



Aeration Basins

PROJECT GOALS:

- Address aging infrastructure
- Meet population growth with increased capacity
- Position facility for future regulatory requirements
- Improve plant operational efficiency

Chemical Feed and Chlorine Contact Basins



The Chemical Feed and Chlorine Contact Basins provide disinfection to meet surface water treatment regulations prior to discharge.

The chemical feed building will include new chemical storage tanks and feed pumps. Chlorine contact basins will be expanded to meet increasing demand.

New Headworks

The headworks is the entry point for all wastewater with the core purpose of removing suspended debris and grit.

The new headworks can handle 30 MGD with the ability to be expanded for future needs.



CITY OF
SIOUX FALLS