



MARANA TOWN COUNCIL
STUDY SESSION
NOTICE AND AGENDA

11555 W. Civic Center Drive, Marana, Arizona 85653
Council Chambers, March 12, 2019, at or after 6:00 PM

Ed Honea, Mayor
Jon Post, Vice Mayor
David Bowen, Council Member
Patti Comerford, Council Member
Herb Kai, Council Member
John Officer, Council Member
Roxanne Ziegler, Council Member

Pursuant to A.R.S. § 38-431.02, notice is hereby given to the members of the Marana Town Council and to the general public that the Town Council will hold a meeting open to the public on March 12, 2019, at or after 6:00 PM located in the Council Chambers of the Marana Municipal Complex, 11555 W. Civic Center Drive, Marana, Arizona.

ACTION MAY BE TAKEN BY THE COUNCIL ON ANY ITEM LISTED ON THIS AGENDA. Revisions to the agenda can occur up to 24 hours prior to the meeting. Revised agenda items appear in *italics*.

The Council Chambers are wheelchair and handicapped accessible. Persons with a disability may request a reasonable accommodation, such as a sign language interpreter, by contacting the Town Clerk at (520) 382-1999. Requests should be made as early as possible to arrange the accommodation.

This Notice and Agenda posted no later than Monday, March 11, 2019, 6:00 PM, at the Marana Municipal Complex, 11555 W. Civic Center Drive, the Marana Operations Center, 5100 W. Ina Road, and at www.maranaaz.gov under Agendas and Minutes.

CALL TO ORDER AND ROLL CALL

PLEDGE OF ALLEGIANCE/INVOCATION/MOMENT OF SILENCE

APPROVAL OF AGENDA

DISCUSSION/DIRECTION/POSSIBLE ACTION

D1 Relating to Floodplain Management; a presentation on the findings from the first phase of the Town's Northwest drainage study (Keith Brann)

D2 Presentation: Update on Major Water Infrastructure Projects (John Kmiec)

EXECUTIVE SESSIONS

Pursuant to A.R.S. § 38-431.03, the Town Council may vote to go into executive session, which will not be open to the public, to discuss certain matters.

E1 Executive Session pursuant to A.R.S. §38-431.03 (A), Council may ask for discussion or consideration, or consultation with designated Town representatives, or consultation for legal advice with the Town Attorney, concerning any matter listed on this agenda for any of the reasons listed in A.R.S. §38-431.03 (A).

FUTURE AGENDA ITEMS

Notwithstanding the mayor's discretion regarding the items to be placed on the agenda, if three or more Council members request that an item be placed on the agenda, it must be placed on the agenda for the second regular Town Council meeting after the date of the request, pursuant to Marana Town Code Section 2-4-2(B).

ADJOURNMENT



Council-Study Session

D1

Meeting Date: 03/12/2019

To: Mayor and Council

From: Keith Brann, Town Engineer

Date: March 12, 2019

Strategic Plan Focus Area:

Not Applicable

Subject: Relating to Floodplain Management; a presentation on the findings from the first phase of the Town's Northwest drainage study (Keith Brann)

Discussion:

For FY19, the Town Council budgeted for a drainage study of Northwest Marana. The study is divided into two regions. The first region is west of the Santa Cruz River and includes the Town limits from the river southwest to Twin Peaks Road. The second region is east of the Santa Cruz River and includes the Town limits from the river northeast to the Central Arizona Project Canal/I-10. It should be noted that the Pima County Flood Control District is concurrently studying the Santa Cruz River throughout the Town and that study's results will be melded with the Town's study.

Tonight's presentation will be of the first phase of the study, which was to research and build a detailed hydrologic and hydraulic floodplain model. The next phase of the study will then take various proposed infrastructure improvements and determine how they impact the model and floodplain.

Staff Recommendation:

Presentation only.

Suggested Motion:

Presentation only.

Attachments

No file(s) attached.



Council-Study Session

D2

Meeting Date: 03/12/2019

To: Mayor and Council

From: John Kmiec, Water Director

Date: March 12, 2019

Strategic Plan Focus Area:
Community

Subject: Presentation: Update on Major Water Infrastructure Projects (John Kmiec)

Discussion:

Marana Water will present an update on current and future major water infrastructure projects. The projects discussed will include the following:

The Picture Rocks and the Airline/Lambert Water Quality Treatment Campuses

In September 2018, Mayor and Council gave direction to town staff to begin the process of pursuing treatment solutions for the two water systems that are impacted with unregulated compounds, Picture Rocks and Airline/Lambert. Those systems have been found to have two chemical compounds (PFAs and 1,4-Dioxane) that exceed the current EPA health advisory.

In December 2018, the Town retained the services of Carollo Engineering to conduct the design services and support the town during the construction phase of the projects. In January 2019, the Water Infrastructure Financing Authority of Arizona agreed to support the project and provided Marana access to \$15M for design and construction services for the projects. On March 7, 2019, the Town closed the solicitation for a "Construction Manager at Risk" for the projects. The review committee will be spending the next few weeks reviewing the applicants and an eventual selection will be made. Negotiations with the selected contractor will produce most likely two Guaranteed Maximum Price (GMP) contracts. It is currently anticipated that formal construction activities will begin by early summer 2019, with final construction and commissioning to occur in the summer of 2020.

Northwest Recharge, Recovery, and Delivery System

The Northwest Recharge, Recovery, and Delivery System (NWRDRS) is a joint project between the Town of Marana, Town of Oro Valley, and Metro Water District. In April 2017, the town joined the other two agencies in the NWRDRS intergovernmental agreement. The project owner and manager is the Metro Water District.

The goal of the project is to recover stored CAP water from each of the three agencies, plus the Arizona Water Bank, and be able to deliver the water to a shared forebay reservoir located just north of Twin Peaks and Blue Bonnet roads. From that reservoir, each of the three agencies will be able to deliver water to their respective service areas. The creation of this project is to move water from an area of storage (near the Marana Airport) to areas throughout the northwest side of Tucson where groundwater elevations have been falling historically. The movement of this water to those areas of demand will in turn sustain the local aquifer from further degradation caused from decades of over pumping.

By participating in this project, the Town of Marana will retain ownership of approximately 23% capacity share of the project (2,400 acre-feet per year). The remaining 77% will be split by Oro Valley and Metro Water (38.5% respectively -- 4,000 acre-feet per year each).

In 2018, Metro Water was able to complete most of the property acquisitions necessary for the project to continue. Also in 2018, HDR, an engineering consulting firm, was retained by the project team to begin the program management portion of the project. This will eventually include oversight of design and construction services for the remainder of the project. HDR has completed some additional cost estimating for the project and incorporated a number of risk factors that may be present in a construction of this type. The current estimate for the NWRDRS is \$37M with Marana's share being \$6.4M. In addition to NWRDRS cost for Marana, upgrades will need to be made to Marana's infrastructure at the Airport (\$1.4M) and at the place of delivery to the Twin Peaks road (\$700k).

Since this project will be able to recovery Arizona Water Bank water in times of shortage to the CAP, the Central Arizona Conservation Water District has provided Marana with \$550k to put towards this project.

Later in FY2020, a solicitation by Metro Water for design engineering services is expected. A detailed design and more refined cost estimate will occur by FY 2021, with construction to be completed between 2021 and 2023.

Twin Peaks-Continental Reserve Interconnect

Marana Water operates seven separate water systems throughout the Town of Marana. The Hartman Vistas water system is located east of I-10 serving the Twin Peaks corridor south to Cortaro Farms Road. The Picture Rocks Water System serves Continental Reserve and unsubdivided areas to the south. This project will include the design and construction of approximately 6,400 linear feet of new 24-inch pipeline to combine the two systems into one system. Combining the two systems will allow Marana Water to fully utilize the existing well capacity providing greater system redundancy and resiliency for our customers. Additionally, once the NWRDRS project is complete and

operational, use of recovered CAP water could be used in lieu of pumping existing wells thereby saving on energy costs and reducing decline of groundwater levels in the area.

The project is currently under design by Engineering and Environmental Consultants, Inc. (EEC) and is expected to start construction in FY2020.

W+ to X-Zone Booster Station at Tangerine Farms

The W+ to X-Zone Booster and PRV Station includes the design and construction of a 3,000 gpm booster station located on Tangerine Farms Road less than 1 mile west of Interstate 10 near the current location of Ventana Medical.

While necessary to meet future demands immediately east of its proposed location and west of Interstate 10, the booster station is also part of Marana Water's long term plan to provide water to the east side of Interstate 10. It will provide the capacity necessary to serve developments east of Interstate 10 spurring economic growth. The booster station will eventually fill the existing Tangerine Business Park Reservoir and combine the North Marana and East Tangerine Water systems, further increasing redundancy and resiliency of both systems.

The project is currently under design by Westland Resources and will be constructed as soon as economic growth indicates a need.

Future Tangerine/I-10 Crossing

One of the major factors limiting growth on the east side of Interstate 10 near Tangerine Road is the lack of water and sewer infrastructure crossing the interstate and Union Pacific Railroad. Crossing the interstate and the Union Pacific Railroad is not an easy task and does not pencil out financially for a single development – commercial or residential. Marana Water projects such as the W+ to X-Zone Booster and PRV Station will provide the pressure and flow capacity but do not include the transmission infrastructure necessary to get there. Marana Water completed construction of the Tangerine Downtown Sewer Conveyance System which is located approximately 1,200 feet west of Interstate 10. Prior to this project being constructed, the closest major sewer interceptor was approximately 7,000 feet west of Interstate 10. The Tangerine Downtown Sewer Conveyance System makes it much easier to provide future service to developments wishing to connect to from the east side of Interstate 10.

Installing water and sewer infrastructure under Interstate 10 is a future regional project that could provide a major boost to the establishment of development on the east side of Interstate 10.

Staff Recommendation:

Presentation only.

Suggested Motion:

Presentation only.

Attachments

No file(s) attached.
