

## PROJECT NARRATIVE

### BACKGROUNDS

The City of Phoenix and EPCOR entered into an IGA (Inter-government Agreement) to supply water from the City of Phoenix water distribution system to the Town of Paradise Valley, to which EPCOR provide water services. Phase 1 of the Paradise Valley Phoenix Interconnect project, 24-inch diameter water transmission main, has been constructed in Lincoln Drive between 36<sup>th</sup> Street and 52<sup>nd</sup> Place. Phase 2 of the Interconnect project will build a new pump station, called Interconnect Booster Pump Station (IBPS), connecting the new 24-inch water transmission to the existing Country Club Booster Pump Station (BPS).

### PROJECT SUMMARY

The existing Country Club BPS, operated by EPCOR, is currently equipped with four pumps supplying water from Paradise Valley Main Zone to Country Club Zone. The new IBPS will be equipped with a single pump and electrical equipment. The IBPS will be constructed within the existing Country Club BPS site. The primary purpose of the new pump is to raise the pressure of the Phoenix water matching the Paradise Valley Main Zone pressure so the existing Country Club BPS will be able to supply Phoenix water into the existing Country Club Zone.

Once constructed, the new IBPS, along with the new 24-inch diameter water transmission main, will deliver an average flow of 2.8 MGD (1,944 gpm) from the City of Phoenix water distribution system at 36<sup>th</sup> Street and Lincoln Drive to the Paradise Valley water system at the Country Club BPS. The new pump station will provide additional water supply to the existing Country Club BPS, servicing the area north of Lincoln Drive between 40<sup>th</sup> Street and 56<sup>th</sup> Street. The Country Club Zone also supplies water to the subsequent water pressure zones, including Clearwater Hills, Clearwater Hills 3, Las Brisa, and High Cliff, through a booster pump station for each subsequent zone. As part of this project, a new chemical metering system will also be installed in order to maintain the water quality within the Paradise Valley water system.

### PARCEL INFORMATION

The existing Country Club BPS is located on the east part of the Marriott Condominium – Camelback Inn. Marriott Condominium Development Corporation owns the land and allowed

EPCOR to use the site for the booster pump facility. The Letter of Authorization from Marriott is enclosed.

## **NOISE IMPACT**

In regards to the potential audible and/or visual disturbance to the neighboring community, this project will have little impact as the new pump will be installed in an acoustic enclosure and all new equipment will be installed behind the existing Country Club BPS building. The acoustic enclosure will be composed of 4-inch thick insulation panels supported by steel frames and anchored into the concrete pad and will reduce the noise of the pump to 45 dB. In order to minimize the noise impact on the surrounding neighbors during construction, the contractor will not perform any construction activities except between the hours of 7 AM to 5 PM Monday through Saturday.

## **TRAFFIC IMPACT**

The project will install a new 16-inch waterline in Desert Fairways Drive and make a connection to 8-inch sewer main. The construction will allow local traffic at all times. As part of the Right-of-Way permit application, a traffic control plan will be submitted for approval. There will be no traffic impact once the construction is complete.

## **LIGHTING ISSUE**

There will not be any lighting issues during construction as the construction will take place during the daylight hours. There will not be any lighting issues after the project is complete as the only newly installed lights will be inside of the acoustic enclosure and not visible from outside.

## **SITE SCREENING**

Based on the meeting held on January 16, 2020 between the Town and EPCOR, a wrought iron fence with redwood slats will be used for the required site screening at the existing Country Club BPS. The proposed fence will be installed behind the existing landscaping trees and the existing APS equipment (switch cabinets, capacity cabinet, and transformer) (see the attached graphic renderings). The proposed fence alignment complies with APS clearance requirements for various types of equipment. A 12-ft wide swing gate will be installed on the northwest side of

the BPS site. As discussed, the proposed fence will tie to the existing chain-link fence on the southeast corner and to the existing shrub on the northwest corner.

Wilson Engineers has been closely coordinating with the Town's Engineering Department for all required permits and is submitting this application on behalf of EPCOR to comply with the Town's ordinance. The existing pump station is the essential public facility for the neighboring community and has been continuously operated since it was built. Therefore, the citizens in the area will understand and accept the importance of this project. It is certain that this project will benefit the residents of Paradise Valley for many years to come by providing a stable potable water system.

# **Graphic Renderings of the Proposed Fence and Gate**

## Wrought Iron Fence/Gate with Redwood Slat



8'-0" Tall Entrance Gate (Facing East from Desert Fairways Drive)



## Wrought Iron Fence/Gate with Redwood Slat



8'-0" Tall Fence (Facing East from Desert Fairways Drive)



## Wrought Iron Fence/Gate with Redwood Slat



South of BPS (Facing North from Desert Fairways Drive)  
*(New fence is hidden behind existing landscape)*



Wrought Iron Fence/Gate with Redwood Slat



8'-0" Tall Entrance Gate (Facing East from Desert Fairways Drive)



## Wrought Iron Fence/Gate with Redwood Slat



8'-0" Tall Fence (Facing East from Desert Fairways Drive)