

# CITY OF NORTH LAS VEGAS MEETING

## AGENDA ITEM

NUMBER: 31.

**SUBJECT:**

Approve Emergency Project for the Installation of a Pressure Relief Valve at the Intersection of Deer Springs Way and Goldfield Street Funded by the Utilities Enterprise Fund; and Authorize the City Manager to Issue Necessary Contracts to Complete the Project, CIP Project No. W0061. (Ward 4-Cherchio) (For Possible Action)

**REQUESTED BY:**

Tom Brady, Director of Utilities

**WARD:**

4 - Councilman Cherchio

**RECOMMENDATION OR RECOMMEND MOTION:**

It is recommended that City Council approve an emergency project and authorize the City Manager to issue necessary contracts to complete the project.

**FISCAL IMPACT:**

AMOUNT: TBD

**ACCOUNT NUMBER:**

00613-600337-450540

EXPLANATION: Utilities Enterprise Fund

**STAFF COMMENTS AND BACKGROUND INFORMATION:**

This PRV Project is critical due to a recent failure in the operations of the City's water system. Earlier this year, a valve needed to be replaced in the City's pressure relief valve (PRV) vault located at CC-215 and Lamb Blvd. When City staff shut down the PRV valves, which are supplied from the Southern Nevada Water Authority (SNWA) Grand Teton Reservoir, the Veteran's Administration (VA) Hospital reported that it lost water service. City staff immediately opened the valves and put the replacement on hold pending an investigation as to the cause.

City staff's investigation revealed that a 12" PRV located at Commerce and River Glider was the primary supply of water to the VA Hospital while the CC-215/Lamb PRV is out of service. City engineering staff responsible for maintaining the water system model ran simulations to evaluate the impacts to the system and were able to determine that this PRV depletes the entire 2227 Pressure Zone of sufficient water, not just the VA Hospital.

Staff examined alternative solutions including use of the Camino El Norte Pump Station to supplement 2227 Pressure Zone. As a result of water modeling, there would be insufficient flows. An additional PRV within the system is necessary to provide redundancy and service to the 2227 Pressure Zone.

This project is considered an emergency as the CC-215/Lamb Blvd. PRV is in need of repair and can fail at any time, which would result in the loss of water service to VA Hospital and the 2227 Pressure Zone. Additionally, SNWA has notified City staff of the need to shut down the Grand Teton Reservoir in February 2021 to repair and replace critical components. This shut down will also result in the loss of water service to the VA Hospital and the 2228 Pressure Zone.

With the urgency of the repair and installation of the new PRV and SNWA's anticipated shutdown, traditional

CIP No. W0061		Related Item:
LIST CITY COUNCIL GOAL(S): Responsible Fiscal Management; Quality Municipal Services		
PREPARED BY:	Respectfully Submitted	MEETING DATE:
Tom Brady	Ryann Juden	12/2/2020
Utilities Director	City Manager	

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project delivery is not feasible to maintain service to the hospital and the pressure zone. Staff recommends this project be declared an emergency to allow for issuance of an emergency contract to order components and complete the repair and installation of a new PRV itself, and to perform validation testing.

The VA Hospital is a critical customer that needs to have constant water. Reducing or shutting off water could jeopardize the health and safety of their patients and staff. Design of the repair is currently underway. Staff plans to solicit informal bids from 3 contractors, if possible, and issue an emergency contract to effectuate the repair and installation. Our construction goal would be to complete the project by 2020 year's end. This would allow for unforeseen delays and time to test the operation of the PRV, prior to the SNWA Grand Teton Shutdown.

Staff will provide a follow-up presentation once the work has been completed. This project will be funded by the Utility Enterprise Fund through CIP Project No. W0061.