



CITY COUNCIL MEMORANDUM

FROM: The Office of the City Manager **DATE:** October 27, 2025

SUBJECT: Authorize the City Manager to execute Change Order No. 4 with CGC General Contractors, Inc., contract #32500004 in the amount of \$453,349.52 for the NRH2O Family Water Park Nitro Blast construction.

PRESENTER: Adrien Pekurney, Director of Parks and Recreation

Summary:

This item is for City Council consideration to authorize the City Manager to execute a change order in the amount of \$453,349.52 to complete plumbing and electrical modifications within the Nitro Blast Pump Room. Immediate funding is available through a project budget transfer from the adopted FY2026 Water Park capital project WP2602 (Double Dipper Tower Renovation) to WP2305 (NitroBlast Design and Construction).

The adopted FY26 Water Park capital project WP2602 design/engineering first phase will not be impacted by this transfer and will continue as planned in FY2026. Construction of the WP2602-Double Dipper Tower Renovation is anticipated to begin at the conclusion of the 2026 water park season. Funding for the WP2602 construction phase will be reviewed and presented within the revised FY2026 budget later within this fiscal year.

General Description:

Nitro Blast reached its final stages of construction in late June 2025. During final testing and ride commissioning, contractors and staff identified that the uphill boosters' water pressures were not sufficient for successful operation due to undersized pumps.

The attraction was originally scheduled to open in July 2025, but during system and physical ride testing, it was discovered that four of the installed pumps were not supplying adequate pressure to Boosters 1 and 2—an essential requirement for the operation of the ride. Since then, NRH2O and the City of North Richland Hills have been working diligently and closely with the engineering consultant to update the design.

To resolve this issue, a revised mechanical room layout (MR-2) was developed. However, due to 60 to 90-day lead times for the required replacement pumps and variable frequency drives (VFDs), the necessary equipment could not be procured in time to meet the original opening schedule within the 2025 season.



Aquatic Design Group, the project's aquatic engineering consultant, prepared the revised pump room layout (MR-2) to address the hydraulic deficiencies. The updated design includes the relocation of existing 75HP pumps, the addition of two new 125HP Grundfos pumps, and the reconfiguration of the piping and electrical systems to improve flow performance and operational reliability.

Change Order No. 4 includes the following major components, as detailed in the revised construction drawings:

- *Plumbing Modifications:*
 - Relocation of two 75HP pumps to new booster positions
 - Installation of two new 125HP Grundfos pumps
 - Installation of 12" butterfly valves and check valves
- *Electrical Modifications:*
 - Rewiring switchgear and pumps
 - Installation and programming of two 125HP VFDs
 - Relocation of existing 75HP VFDs
 - Installation of new conduit, breakers, and wiring

Change Order Summary to Date:

- Change Orders #1 and #2 were presented and approved in December 2024.
- Change Order #3 was standard release of remaining contingency with no additional approval needed.
- Change Order #4 is represented within this memo for consideration by City Council.

Original Contract	\$3,096,771.00	Base contract for NRH2O Nitro Blast Construction (completed)
Change Order #1	\$40,821.50	Geotechnical borings, materials testing, and demolition at slide tower top (completed)
Change Order #2	\$209,178.50	Magmeter upgrades, pump replacements, roof hatch refurbishments, and contingency allocation (completed)
Change Order #3	(\$368.51)	Release of remaining contingency funds (completed)
Change Order #4	\$453,349.52	MR-2 mechanical room redesign: pump relocations, new VFDs, electrical and plumbing upgrades
Total Contract	\$3,799,751.01	Original Contract plus all change orders



Recommendation:

Authorize the City Manager to execute Change Order No. 4 with CGC General Contractors, Inc., contract #32500004 in the amount of \$453,349.52 for the NRH2O Family Water Park Nitro Blast construction.