

# ST. LOUIS AQUARIUM AT UNION STATION



## OVERVIEW



The St. Louis Aquarium at Union Station will be a 120,000-square-foot, two-story aquarium built inside the footprint of a nearly 500,000-square-foot, 19<sup>th</sup> century iron umbrella train shed that is designated as a National Historic Landmark. It is a key piece of the \$187 million family entertainment complex planned for Union Station by Lodging Hospitality Management (LHM).



The aquarium will include one-of-a-kind exhibits and habitats featuring thousands of aquatic animals from freshwater and marine environments around the world. It will bring together state-of-the-art technology, animal care, education and conservation with the excitement of aquatic creatures.



## MISSION STATEMENT

The St. Louis Aquarium connects all people with aquatic life through transformative, immersive experiences, building a community that cares and acts to protect water and the life it sustains.

**MCCARTHY**<sup>®</sup>



CONSTRUCTION BEGAN: NOV. 2017

ANTICIPATED COMPLETION: LATE 2019



# UNIQUE FEATURES

**500**  
CONSTRUCTION  
JOBS CREATED

EMPHASIS ON  
LOCAL AND  
UNDER-REPRESENTED  
BUSINESSES

MINORITIES AND  
WOMEN  
REPRESENTED



**250,000 gallon**  
*SHARK HABITAT*

Will also serve as a backdrop for private and special event space.

approximately  
**3 MILES**  
of pipe servicing  
multiple life  
support systems

15,800 ft.

**53K**  
POUNDS

permanent  
acrylic panels  
1,552 square feet

Panels range in size from 3-by-3' to as large as 16-by-18', requiring precision installation.

**1,145**  
CUBIC YARDS  
AQUATIC  
CONCRETE

FOR HABITATS

Aquatic concrete is a critical component of the walls of each fish habitat and requires strategic placement.

## BUILDING INSIDE A LANDMARK

Demolition depended on working from “as-built” drawings from the late 1800’s, which made existing condition coordination, work sequencing and planning essential. Not only was it necessary to protect and preserve the original columns, footings, foundation, underground piping and more, but also historic construction restraints provided limited access to certain areas, sometimes allowing less than two-feet of space.

## PHASES FOR FISHES

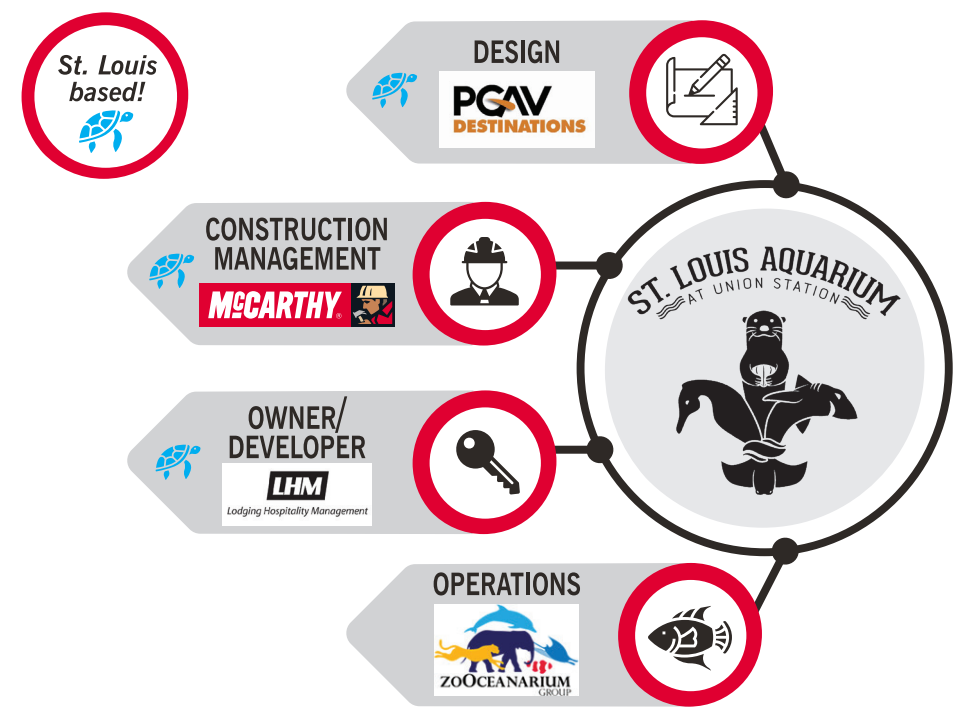
Key construction phases range from structural work that includes micropiles, footings and underground systems; procurement and installation of acrylic glass for multiple fish habitats; as well as tank testing, theming, and life-support system installation and testing.

## COMPLEX MEP SYSTEMS

Because each aquatic environment requires separate systems and piping to provide individualized water, air quality, oxygen level and temperature controls, the mechanical, electrical and plumbing (MEP) systems are significantly more complex and constitute a larger scope of work compared to most standard building projects.

## SKILLED LABOR

Rock work, theming and acrylic. Highly-skilled and time-consuming artisan labor will be required to properly construct the rock work and theming in addition to the other specialty scopes of work.



**AQUARIUM WILL BE OPEN**  
**365 DAYS/YEAR!**  
**100 PERMANENT**  
**JOBS ANTICIPATED**

**About**  
**ST. LOUIS UNION STATION**

- National Historic Landmark est. 1894.
- Originally owned by Terminal Railroad Association of St. Louis.
- Designed by local architect Theodore Link.
- Closed in 1978. Reopened in 1985 as a festival marketplace with \$140M renovation.
- LHM purchased the station in 2012 and has already fully renovated the guest rooms, reimagined event spaces and reinvented the majestic Grand Hall.

**About**  
**MCCARTHY**

- Oldest privately held national construction company
- 150+ years collaborating with partners solving complex building challenges for clients
- Unrelenting focus on safety
- Comprehensive quality program
- Industry-leading design and construction techniques
- 14<sup>th</sup> largest general contractor
- Repeatedly selected Best Place to Work & Healthiest Employer
- Approximately 3,700 employees nationwide
- 100% employee-owned
- Local offices in 17 cities across the U.S.