

McNEIL ENGINEERING™

Economic and Sustainable Designs, Professionals You Know and Trust

EPICENTER

SPRING 2022



FORTY YEARS

As we approach the 40-year mark of being in business in Utah and the Intermountain Region, I know I speak for our entire team at McNeil Engineering when I say thank you! Reflecting on experiences over my 27 years at McNeil Engineering, it has been truly enriching. From a small team of engineers and a survey crew to the full-service firm that we have become today. We do not take that growth for granted and it wouldn't be possible without our friends and colleagues. Please enjoy this Spring issue of our quarterly newsletter and know that we appreciate your business and your friendship.

Here's to many more years of working together to help make Utah great!

Mike Hoffman
President

MCNEIL ENGINEERING
SPRING 2022
NEWSLETTER

EPICENTER

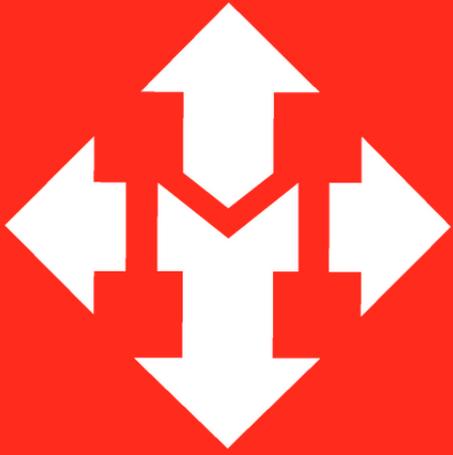
Forty Years

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LARKIN CEMETERY



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MCNEIL SURVEYING

For over 20 years our team has had a great relationship with the Larkin family and their incredible team at Larkin Mortuary. From civil engineering projects to help lay the foundation for their current headquarters to our current projects surveying their properties to prepare for future growth and to take inventory during the ongoing development of their multiple locations.

Led by Surveying Department Manager Mike Hoffman, our team has been involved in surveying and mapping both Larkin cemetery locations using state-of-the-art technology to help them transition to a new cemetery management software system.

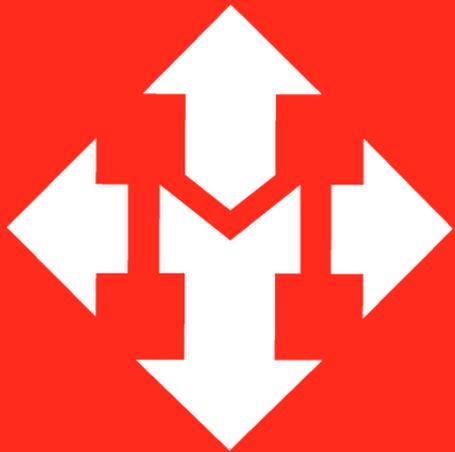
By utilizing drones and ultra-high-resolution cameras, our team was able to provide them with sophisticated imagery including a complete point cloud image of both locations which we sent to Dan Cable and the team at EDA Land Planning who is their go-to Landscape Architect over cemetery development.

What this information does for their team is it allows them to ensure accuracy and precision when taking inventory of exactly what land assets they currently have and helps them plan for the future with confidence.

We look forward to continuing to work with the team at Larkin Mortuary, it's always a pleasure!



DRAPER INNOVATION



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MCNEIL CONSULTING

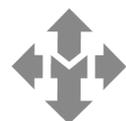
No matter how many roofing or paving projects we manage, it's never lost on our team how different each project is, and how important it is to keep a keen eye for small details to ensure that each project is successful and that their roofs and parking lots are built to last!

The Draper Innovation Center is no exception to that rule. Across a large lot, this multi-structure complex is an exciting new addition to the area that is nearing completion with one building finished and the other expected to be complete this summer.

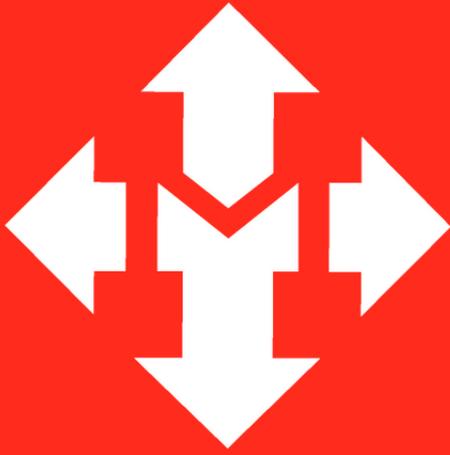
As part of our responsibilities as the consultant and project manager our team reviewed plans and specifications for the owner and commented on what details needed to be revised and issues that could be avoided before construction started. We also reviewed material submittals and shop drawings to make sure they lined up with the plans and specifications and took our findings to preconstruction meetings for both buildings to review with the contractor while verifying his material submittals, shop drawings, and construction schedule. Throughout this process, our team worked closely with the General Contractor to ensure that there were no conflicts with other trades.

For the duration of the project our team observes the roofing production twice a week to make sure that the roof is being installed as per the plans and specifications and sends a report with photos to the owner. We also work with the roofing contractor on any field changes that need to be made.

Once the project is finished our team will perform the final inspection with the manufacturer and send out a punch list to the roofing contractor with any final adjustments. As part of this process we verify that owner receives the final warranty documentation.



NORTH UNION



MCNEIL CIVIL ENGINEERING

In coordination with our very own Structural Engineering, Landscape Architecture, and Surveying departments, our Civil Engineering team had the pleasure of working on the exciting new North Union Apartments project! It really was a blast working in-house across so many departments and disciplines to bring this awesome complex to life which is now entering the final stages of construction.

The key responsibilities of our Civil Engineering team were fairly standard for this type of project as we coordinated with the Architects to locate the building on site and designed all new utility services.

The project was designed to meet city ordinances which are always changing, as well as the new state stormwater codes to recharge our aquifers during an increasingly difficult period of drought for our state! As part of the parking structure, surface improvements were designed to access two separate levels of parking to alleviate congestion at the parking garage entries which is an awesome and welcome change for future residents and helps avoid the traditional hang-up of trying to find somewhere to park at your apartment!

As we see the Draper area and really the entire Salt Lake valley continue to grow, we are excited to have a part in preparing the structures and laying the groundwork for future communities!

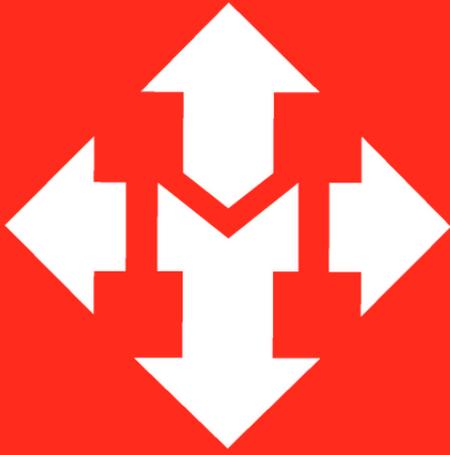


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NORTH UNION



MCNEIL LANDSCAPE ARCHITECTURE

Our overall objective for the North Union apartments was to create a unique, urban environment for residents and the public that plays off the design of the building but also fits the area. The intersection of 900 East and 7220 South is very heavily trafficked and loud. However, it's also a major crossing point for students from the nearby high school. After visiting the site and analyzing the area, we wanted to create a design that allows us to buffer the plaza area, and creates small, more intimate gathering spaces and seating areas to be enjoyed by residents and the public. With this in mind we designed custom black powder coated steel planters in distinctive shapes that will we planted with our water wise plant palette.

We designed the complex's roof deck to be functional for a variety of uses. Black steel planters and cast-in-place concert planters and seat walls, create private seating areas and social gathering spaces with BBQ's and inviting spaces to hang out. Native plant material was used for low water usage and for a natural vibe that will be able to sustainable during the heat of summer.

Our design team worked with the developer and architect to include many amenities as possible to the project such as walking paths, interesting seating areas, a zen rooftop pool and a dog park.

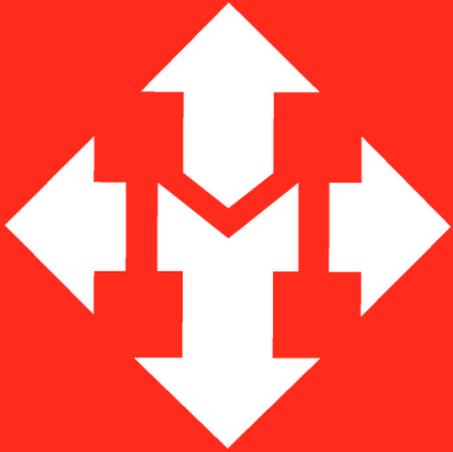


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POST MALONE HOME



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MCNEIL STRUCTURAL ENGINEERING

As more information is publicly released we are happy to share that we had the opportunity to work in depth on Post Malone's new home. It was an incredible project, read more below!

The original home was constructed in 1986. The existing construction was primarily of timber framing on a concrete foundation. The new owner wanted to convert the existing living space into a sound studio. The first task was to take out one elevation of the original seismic resisting exterior walls and extend the rear of the home by approximately 30-ft. The new exterior consisted of all glass with no walls so special seismic resistant moment frames were used to resist the seismic forces. The original design of the structure's interior had gravity resisting bearing walls. These walls were taken out and replaced with steel beams and steel posts.

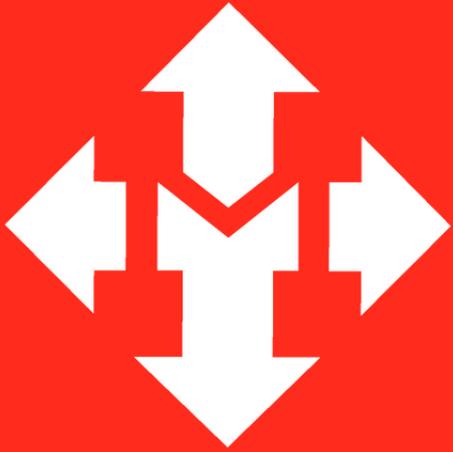
The house was constructed on a hillside lot. On the uphill side of the lot, a new cast-in-place underground concrete basement area was designed with a concrete tunnel connecting the main existing house with the new basement. Several tall cantilever concrete walls were constructed on the site to extend the flat areas of the lot for the new construction of a pool house with a new pool. Also on the site is a two-story partially buried 12-car garage with a recreational deck as a roof. Being partially buried, the garage walls were as much as 2'-6" at the base.

McNeil Engineering performed the structural design for the approx.. 3000 sq. ft pool house. Constructed of timber framing members and concrete walls, the structure was built on a mat slab foundation to help minimize differential settlement. The pool house has rooms for sleeping and entertaining, including a "man-cave", which also stores the pool equipment. Some of the most interesting features of this structure are walls that rotate upward so as to give full, open-end access to the pool deck.

McNeil Engineering also performed the structural design for a two-story concrete garage. The rear wall of the garage retains the uphill soil and boulders to carve out a portion of the mountainside for storage and display of the client's vehicles. A steel framed second-story open rail mezzanine allows full views of the cars below (or at eye level) thanks to a multi-car lift in the garage.



EMPLOYEE SPOTLIGHT



BRIGHTON R. MARCROFT

How long have you worked at McNeil Engineering? **1 year**

What do you find the most challenging working at McNeil Engineering? **Every project is different.**

What do you like most about working at McNeil Engineering? **Every project is different.**

What has been your favorite project at McNeil Engineering? **I really enjoyed working on the green river maverik because the maverik team was very informative and I learned a lot.**

Where were you born and raised? **Utah**

Motto or personal mantra? **Little things add up**

What are three career lessons you've learned thus far? **Follow up, Jake knows everything there is to know about autocad, project management.**

What is something you've always wanted to try and never have? **Flying a plane.**

What do you like to do in your spare time? **I enjoy cooking and going overlanding with my father.**

What are your top 5 bucket list items you want to accomplish?

Become the best at something.

Start a small business.

Ski Kings peak.

Learn to program.

Build a video game.

What is your hidden talent?

Persistence.

