



Inside This Issue:

Stewart Library Renovation.....1

**Shooting For Success At The Lee
Kay Center.....2**

Another “Liberty” Development....2

Moving Dirt.....3

**Building the “Peace
Coliseum.”.....3**

What is a Bumbleberry.....4

Anniversaries.....4

Congratulations.....4

Race Against Cancer.....4

Construction Tools of the Future...5

**McNeil Engineering’s commitment
To Commitment.....5**

Weber State University: Stewart Library Renovation

A major renovation of the interior of the Stewart Library at Weber State University began in May 2016. It is anticipated that the renovation will take until summer of 2017. The renovation will take place in two phases, with half of the library closed for work at a time. That way the other half will be open for students and faculty.

Here are some of what will be happening during and as a result of this renovation:

- Increasing the quiet study and collaborative work space for students
- Upgrading the windows and skylights to allow more daylight in the building
- Adding a new elevator going to all floors and easily accessible off the west entrance
- Creating a new Testing Center
- Adding mobile (compact) shelving to accommodate future collection growth
- Increasing the number of faculty research offices
- Updating the existing restrooms and adding a new unisex restroom
- Replacing the ceilings and carpeting, and the outdated, inefficient mechanical, electrical, and plumbing systems



Interior of Stewart Library



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Stewart Library

and seismic bracing.

McNeil Engineering’s **Structural Engineering Department** completed the structural design work for part of the ceiling renovation. This design work included the structural engineering for the wood grille suspended ceiling



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Shooting For Success At The Lee Kay Center...



If you're a recreational shooter and live in the Salt Lake area you know that places to go shooting are limited. You have most likely been to the Lee Kay Center and done some shooting there. McNeil Engineering has also been to the Lee Kay Center, but, not to shoot. McNeil Engineering's **paving consulting team** designed a parking lot expansion to benefit those that do go there to shoot.



This expansion created some new parking stalls, upgraded some of the existing paving and got the ADA parking up to code at the center.

This isn't the first time we have been to the shooting range. In 2011 we did a redesign of some of the existing parking and concrete.



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HAPPY SHOOTING & HAPPY PARKING!!!

Another "Liberty" Development...

The Salt Lake City Planning Commission approved another development requested by Cowboy Partners and designed by Architectural Nexus under the "Liberty" moniker. Liberty Place Townhomes is a 70 unit townhome project on the 600 East block of Wilmington Avenue directly north of the S-Line.

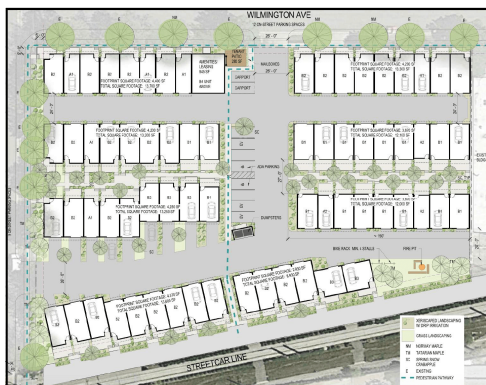
The project will replace an office building and surface parking lot. The units will be rentals and will be dispersed among eight buildings on 1.72 acres. The townhomes will be three stories and include a one car garage. The project's townhomes will front Wilmington Avenue, 600 East and the S-Line.



Rendering of Liberty Place Townhomes

All but nine of the units will have two bedrooms. The townhomes will have the garage and storage space on the ground floor with the living area, kitchen and bathroom on the second floor. The bedrooms will be on the third floor and in both the one and two bedroom units each bedroom will have a private bath.

The project includes a public mid-block walkway that will provide pedestrian access to the S-Line via Wilmington Avenue. The development also features a small landscaped plaza at the site's southeast corner that will abut the greenway and include bike racks and a fire pit.



Site Plan For Liberty Place Townhomes

With the Liberty Place Townhomes, Cowboy Partners is breaking from its recent emphasis in building higher density multifamily projects in Salt Lake. In the past two years Cowboy has built the Liberty Village in Sugar House and the Liberty Gateway, both five stories each.

Construction is underway on two other Cowboy projects, Liberty Crest in downtown and Liberty Boulevard on 400 South, that are seven and five stories respectively. Cowboy also recently received approval by the Historic Landmark Commission to build the four-story Liberty Square directly north of Trolley Square on 500 South.

McNeil Engineering's Civil Engineering is performing all of the civil engineering design for this project. McNeil Engineering's Survey Department completed an ALTA/NSPS survey of the property and will complete another one post construction.

FUN FACT



The **Itaipu Dam**, located at the Brazilian-Paraguayan border, is the largest operating hydroelectric facility in terms of annual generating capacity. Each year ITAPU generates 75 TWh of electricity.



Moving Dirt to Make Room

Making room for a church in the foothills of Draper, Utah is a big undertaking. A 50 foot excavation was required to get to the parking lot grade in the back parking area. That required that 100,000 cubic yards of dirt had to be removed from the site. An additional 100,000 cubic yards will be moved around onsite to construct the necessary retaining walls. THAT'S A LOT OF DIRT!!! McNeil Engineering completed the **civil engineering design** for this project.

Construction Site Draper Church



Overstock.com is Building the New "Peace Coliseum"

Since opening its doors for business in 1999, Overstock.com has grown into a 2 billion dollar business with over 1,700 employees. Overstock.com is building a new corporate headquarters here in the Salt Lake Valley. Overstock officials have said that from the ground level, the building will look like a corporate glass-and-concrete version of the Roman Coliseum, but from the air, the three-story building will appear as a peace sign. With this unique shape the building will be called the "Peace Coliseum."

Here's some interesting facts about the construction of the "Peace Coliseum."

- It took 1,556 truckloads or over 14,000 cubic yards of concrete to build.
- There is 158 mile of electrical wire
- 65,300 square feet of glass
- 54.25 miles of post tensioned cable



**Render of New Overstock.com Headquarters
Showing the Glass Halo Around the Top**

The campus will host several on-site amenities such as a cafe, fitness center, health clinic and daycare. Overstock is also considering an on-campus greenhouse to provide fresh, organic produce to be served at the cafe. A fire pit and a koi pond are onsite to give employees a peaceful place to take a break. Another cool feature of the building is the glass installed in the building's windows. The glass will tint based on the sun's orientation, the time of year, and the local weather conditions in order to save on energy costs and provide employee comfort.



Construction of the Glass Halo

At the top of the building will be a glass halo designed and installed by Steel Encounters. McNeil Engineering's **Survey Department** was commissioned by Steel Encounters to scan the complete radius of the building, using our laser scanners. The purpose of this scan was to provide Steel Encounters precise data for placement of each glass panel of the halo.

This new Overstock.com headquarter building is definitely one of the more unique buildings in the Salt Lake area and is due to be complete in the next few months.



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What is a Bumbleberry?

Bumbleberry Inn in the name of a motel located in Springdale, Utah a mile from the entrance to Zion Nation Park. According to their website bumbleberries



Bumbleberry Inn

are burple and binkel berries that grow on giggle bushes. You may want to make the trip to Springdale just to have a piece of Bumbleberry Pie. You could even have a scoop of Bumbleberry ice cream. Sounds like its time for a road trip.

While you are visiting the Bumbleberry Inn you will notice some construction going on. Yes, The Bumbleberry Inn is expanding and McNeil Engineering's **Structural Engineering Department** completed all the structural design work on the 17,000 square foot, 2 story with basement expansion.

Beside enjoying some great pie and ice cream you may want to visit to see and enjoy some of the most beautiful scenery you will ever see, Zion National Park.



View of Surrounding Mountains

Employee Anniversaries this Quarter

Employee	Date Started	Years of Service
Melissa Smith	10/27/1997	19
Carl Greene	10/15/2003	13
Anthony Schmid	12/15/2003	13
Rebeca Rendon-Lira	10/16/2007	9
Brent Earley	11/8/2007	9
Daniel Pratt	11/19/2007	9
Daniel Canning	12/16/2013	3
Angie Lee	12/7/2015	1

Congratulations!!!

McNeil Engineering is happy to announce that Jacob Hendrickson passed the L.A.R.E. (Landscape Architect Registration Examination.) This means that Jacob is now a licensed Landscape Architect. It also means that McNeil Engineering has two licensed Landscape Architects on staff. Jacob has been with McNeil Engineering for almost 3 years. He has been functioning as a Landscape Designer and Assistant Project Manager. Now he will be able to manage his own design projects.



The L.A.R.E. is a four-part examination designed to determine whether applicants for landscape architectural licensure have the knowledge and skills to provide services without endangering the health, safety and welfare of the public.

WAY TO GO JACOB!!!

A Race Against Cancer

McNeil Engineering was proud to support Huntsman Cancer Foundation through a donation to Brian Warner, a Structural Engineer at McNeil Engineering. On September 10th Brian participated in the LoToJa (Logan, Utah to Jackson Hole) bike race to raise funds for cancer research. Brian raised over \$2,000 in the fight against cancer.

You can imagine just how incredibly scenic, diverse, and challenging the LoToJa's course is. The course gain is around 7,500 feet of elevation. Cyclists tackle most of this while climbing over three mountain passes in the first 110 miles. LoToJa's finish is at the Jackson Hole Mountain Resort. At over 200 miles, the current route, which has been used since 2005, is the longest and most challenging course in the race's 33-year history.



McNeil Engineering's Commitment to Commitment!!!

Dictionary.com defines commitment as: a pledge or promise; an obligation. At McNeil Engineering every project shares the same level of commitment from our staff. Whether it's a huge, high profile project or what would seem like a small insignificant project or anything in between, each project shares the same level of priority to us. Over the past 30 plus years McNeil Engineering has been in business, we have learned that no project is insignificant to the client. What's important to our client is important to us.

Something else we have learned over the years is that most of the time those small projects are an important element or piece to something much bigger.

Here's an example: a pedestrian crossing at Fashion Place Mall. What some might consider a fancy cross walk, we consider a location for safe crossing for employees and mall patrons. McNeil Engineering's **Civil Engineering Department** completed the demolition plan for the existing crossing and the civil engineering design for a new redesigned crossing from the parking lot to the food court plaza.



Existing crossing from parking lot to food court plaza to be reconstructed.

Construction Tools Of The Future May Assist In Preventing Injuries

Construction work isn't just mentally challenging, it's physically grueling and often leaves workers nursing bruises, sore muscles and a myriad of other health problems on the weekends. There's lifting involved, working with heavy machinery, manual tasks like digging and chopping, laying concrete etc. And that's just scratching the surface.

Over the years, wear and tear on the body adds up. Health problems like arthritis, slipped disks, joint pain and tendinitis flare up if they aren't addressed, and without proper rest and relaxation their symptoms only get worse.

Since most contractors and construction workers rely on their bodies to make an income, it's necessary that they show up, even if they're feeling sick, unwell or suffering through an injury suffered on the job.



For years, scientists, engineers and other industry experts have tried to come up with ways to solve the problem of construction's demand on the physical body, but it hasn't been until recently where progress is actually being made.



According to ConstructionDive.com, new tools are being designed to weigh less, and are easier to maneuver. Building materials are getting lighter, and as they do, work-related injuries are beginning to decline.

Certainly, the construction industry has a long way to go in regards to improving safety, and finding ways to maintain better health, but it's exciting to know that progress is being made.

