

July 2010—September 2010



copconstruction.com

COP CHRONICLE

SPANISH FORK—SPRINGVILLE REACH PIPELINE

Springville, Utah

The Spanish Fork – Springville Reach Pipeline project is located in Springville and Provo, Utah. The pipeline is one portion of the over-all Central Utah Water Project. The project owner is the Central Utah Water Conservation District. Lee Wimmer is our primary contact. Construction inspection is handled by the Bureau of Reclamation, represented by Kent Kofford and Terry Despain.

This project consists of 4.9 miles of 60" welded steel raw water pipeline with cement mortar lining and coating to be installed using a slide rail shoring system. Along the length of the pipeline are 11 concrete structures of varying size and complexity, most with interior mechanical and electrical work. Besides the 60" pipeline, COP and its subcontractors are replacing nearly all city utilities in the right-of-way with new facilities, including water, sewer, storm drain, and irrigation mains. There is a significant amount of traffic control such as lane modifications and twice-daily traffic switches on 2 miles of busy UDOT Highway 89, as well as extensive detours in Springville and Provo. Most of the job finishes with a complete surface restoration package including paving, flatwork, and landscaping.

The pipeline is built from approximately 525 individually-engineered pieces of pipe, most of which are nominally 50' length. Every straight pipe, as well as all horizontal and vertical bends, are bell and spigot joints that are stabbed using a hinge technique while the pipe is maneuvered using Caterpillar 365 and 345 excavators. Once installed, the entire pipeline will be filled and tested at 450 psi.

The Project schedule has been the biggest challenge. The Project is nearly five miles long and passes through the residential streets of Springville for approximately three miles. Traffic control, residential and business concerns, and aging underground utilities were major factors. As a result, we have faced numerous changed conditions due to the existing Springville utility infrastructure.



Slide rail shoring system.

Photo by Jade Lee



Toby McFarlane's crew with shoring system stair-stepping downhill.

Photo by Doug Teller

Difficult wet soil conditions and depth of the pipeline round out the daily challenges. The pipeline work culminated near the end of the job with a closure of Highway 89 to allow the 60" mainline to be laid diagonally across the highway in one week-end of round-the-clock work.

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MEET THE FACES of COP

Doug Teller is the Project Manager of Springville Reach. He holds a Masters Degree in Construction Engineering from MSU-Bozeman, and has been with COP for five years. He grew up in a construction family, moving around the U.S. every 2 to 4 years, but luckily landed in Montana on three occasions. He started in the construction business with internships at copper mines in Chile, and has since worked in Utah and Montana. Doug enjoys outdoor activities such as fishing, skiing, floating rivers, and scuba diving. Doug is married to his wife, Jordan, who shares in almost all of the outdoor activities. Of COP, Doug noted, "I'm very happy to be part of this organization and work with such a talented group of people."



Kash Tacke joined COP in June as a Project Manager and helped in the capacity of Assistant Project Manager on the Springville Reach Project. He will be the Project Manager on the upcoming Buhl Wastewater Treatment Plant Improvements in Buhl, Idaho. Kash has over 14 years of construction experience including heavy civil, highway and bridge projects, water and wastewater structures, dam rehabs, and commercial structures. Kash is married with two daughters and enjoys fly fishing and spending time with his family.

Dave Jarman started working for COP in January, 2009 as a Foreman and is presently General Superintendent on the Springville Reach Project. He has worked over 20 years in the construction industry. Dave enjoys hunting, fishing and other outdoor activities.



MEET THE FACES of COP

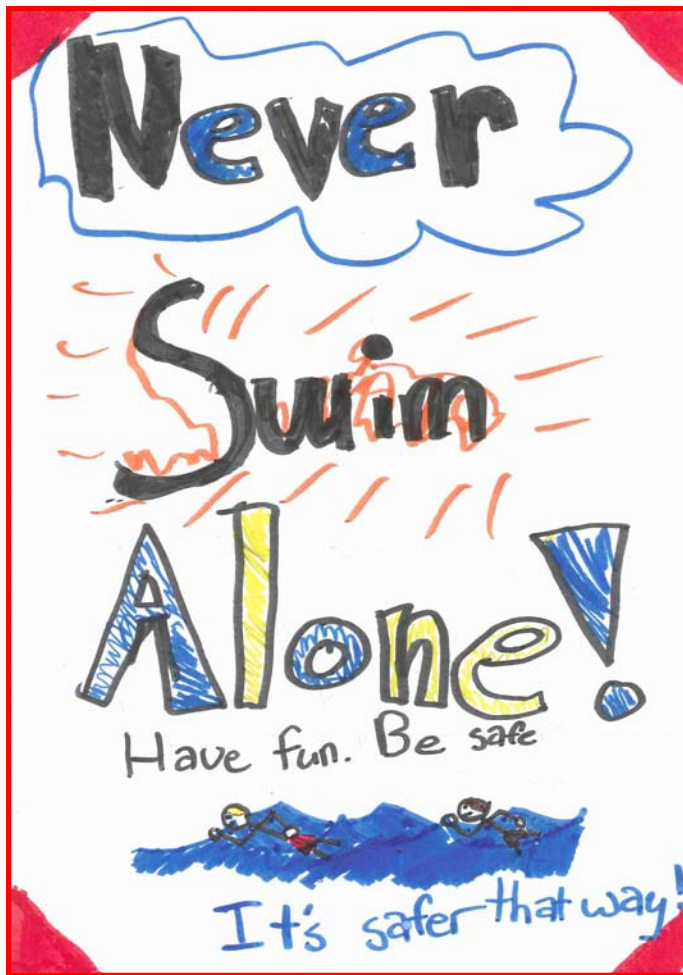


Ryan Stansfield, Assistant Project Manager, has been with COP since July, 1998. He has worked in various positions and on many different projects, and is currently working at the Springville Reach Project. Ryan and his family live in Salem, Utah. In his spare time he enjoys spending time with his wife, Amanda, and their son, Preston. He also helps his brother run cattle in Moab and Payson Canyon. Together they run 80 to 100 head of cattle per season. Ryan enjoys riding ATVs, camping, and hunting.

Larry Riddle began at COP in July, 2003 and is currently a Superintendent on the Springville Reach Project. During his 7 years at COP he also has worked as a Carpenter, Ironworker, and Foreman. Larry and his wife live outside of Columbus, Montana where they enjoy the surrounding countryside. They have one son and two daughters and are the proud grandparents of a 3-year old. Besides spending as much time as possible with his grandson, Larry enjoys amateur archeology, boating and fishing.



Dave Davidson, Project Manager, joined COP in March of 1983. Currently, he is a Superintendent on the Springville Reach Project. In his early years at COP, he was the Shop/Yard Manager and served as Safety Director for a short time. Dave and his wife, Cindy, live in Billings, Montana, as do their three children—Cody, Kyle, and Ginny. They also have two grandchildren. Dave loves to golf, enjoys working on his house, traveling, and spending time with family.



THANKS, SALLY !!

Sally Newman, age 11, submitted the winning safety poster. For her efforts, she receives a gift card to spend at the place of her choice. Great poster, Sally!



My poster is about play safely.
My friend ~~about~~ almost drowned
and ~~barely~~ barely survived. I saved
her life. So never swim alone.

True story

FACTS ABOUT BACKS AND LIFTING THINGS

Your back is at work 24 hours a day. It has to hold up your entire body and support most of your weight.. Plus your back takes part in almost every move you make. Your back helps you reach, stand up, bend over, sit down, lift loads, turn and move objects.

Here are the "facts about backs" –

- ◆ Thousands of on-the-job injuries are related to improper body movement.
- ◆ More people suffer back injuries at home than at work.
- ◆ A back injury can keep you from activities you enjoy and cost you doctors' fees, lost wages and future job opportunities.

The best way to protect your back against many hazards, both on the job and off, is to develop habits that reduce the strain on the back. Consider the following:

Slow Down. Walk instead of running from place to place. Wear shoes or boots with non-slip soles and always look where you're going.

Stretch First. It's a good idea to stretch gently before lifting or other back activity. Gentle stretches at the start of the day and periodically during the day help keep your back muscles flexible.

Rest Your Back. Give your back a rest by sleeping on a firm mattress. The best sleep positions are on your side with your knees bent or on your back with the knees elevated.

Avoid Unnecessary Lifting. Whenever possible, use material-handling equipment (hoists, dollies) rather than your body to lift. And always push a hand truck or dolly, don't pull it.

Get Help. Ask a co-worker to help when lifting large or awkward loads. Break down large loads into smaller, manageable pieces.

Chris Cull, Safety Manager

Unique equipment on the job includes the Efficiency slide rail shoring system, as well as the uses of the 365 and 345 excavators with quick couplers to install the shoring components and set the pipe. This style of shoring system was mandated by the owner to assist in placement of the flow fill pipe encasement. To function correctly, the slide rail shoring must be installed with posts plumb and panels level and square. Utility crossings must either be cut out, looped, or a new bay of shoring must be started on the other side. The spreader bar assembly can be raised and lowered to suit installing the pipe.

Subcontractors include those specializing in steel pipeline work, including cathodic (corrosion) protection system (Corpro), interior joint grouting (American Pipeline Services), welding (NK Welding) and inspection (Geostrata). COP and fiber optic subcontractor (Americom) will install 5 miles of fiber optic conduit with 12-strand fiber cable for the District.

Project Manager, Doug Teller, and Assistant Project Managers Ryan Stansfield and Kash Tacke, with special assistance from Jasen Bennie and Dennis McPherson, have depended on the talents of Superintendents Dave Jarman, Jade Lee, Toby McFarlane, Pete Stuberg, Celso Holguin, Larry Riddle, Sam Vaitai and Dave Davidson in completing this project.

Work began on the Springville Reach in December 2009; completion is required by November 30, 2010. Current value of this project is approximately \$32 million.

Doug comments, "All our guys in Springville have worked incredibly hard, and we sincerely appreciate their efforts."



60" mainline pipe on Hwy 89 with area ready for concrete manway structure. Photo by Jade Lee



CAT 365 and 345 excavators setting a pipe. Photo by Doug Teller



View of Hobble Creek work area — deep wet well, box culvert, and 60" mainline tee. Photo by Doug Teller



Estimators, Bureau representatives, and COP supervisors with the last pipe for the Springville Reach Project. Photo by Casey Smith, BOR



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From the desk of the President –



With national politics in the news lately, and the upcoming elections in November, I thought that it would be appropriate to point out a few facts related to our ever-growing federal government.

1. Entitlement: As outlined in “Wikipedia”, entitlement is a guarantee of access to benefits. Entitlement refers to a notion or belief that someone is deserving of some particular reward or benefit. In other words, “I am owed this”; “it is my government’s obligation to provide this to me”. Entitlement programs include programs such as Social Security, Medicare, Medicaid, food stamps, social services, unemployment, etc.

Presently, entitlement programs make up over 50% of the federal budget and with the present administration, this is likely to grow. This basically means that 50% of your federal tax dollars go to paying for programs that respond to “my federal government owed me this”.

2. Taxes: In recent news articles from Fox and MSNBC, it was reported that 47% of US households did not pay federal income tax in 2009. Therefore, our present system puts the obligation of supporting the US federal spending on one half of the households in the US. The present administration is looking to put more of the federal tax burden on hard working, taxpaying households.
3. Government vs. Private Sector Jobs: If you go to the Washington, DC area, where a large portion of the federal jobs are located, you would never know that we are in a challenging economic time. Why? While the private sector is laying off workers, freezing wages and reducing benefits in order to survive these tough economic times, the federal government is increasing jobs and increasing wages while benefits remain protected. As indicated in a recent [USA Today](#) article, “Federal civil servants earned average pay and benefits of \$123,049 in 2009, while private workers made \$61,051 in total compensation.”

As the present administration “grows the federal government” to protect you, it is adding federal jobs and adding to the federal spending.

Given the facts outlined above, please consider what direction you want our federal government to take going forward.