





- Truck consistency: each truck from our 900 series to 1700 series are identical
- Our remote hose capability enables excavation of 400 feet away from the unit

- Tri axel dual 900 gallon water tanks
- Debris tank holds approx. 2,500 gallons or 12 yards
- 5500-6200 CFM.
- Variable water pressure up to 2200 PSI.
- Emergency stops buttons. 1 on each side of truck and 1 on the operators remote.
- Custom engineered spray nozzles E/W neoprene rubber tips



TOLERANCE TESTING



- Variety of tests in a controlled setting.
- Owner's Engineers assess impact on the material.
- Provide safe operating limits
- All Procedures are updated and followed.
- Limits of any possible damage is documented for material tested.

Line Jetting Truck/Services

- **CCTV Pipe Inspection**
- **Mainline Pipe Inspection**
- **Pipe Jetting & Cleaning**
- **Emergency Response 24/7/365**
- **Pipe Lining Partner**

- The combination storm and sewer cleaner combines high-pressure water jetting and a high-flow vacuum source to scour pipes clean then vacuum up the material causing blockages to restore and maintain normal flow.
- Uniquely designed for sewer cleaning, the Water Pump provides smooth continuous flows through its entire operating range – ranges available from 0 to 100 GPM and pressures up to 3000 PSI.
- The hose reel can telescope out up to 15 inches and rotate up to 270 degrees for optimal positioning
- Standard 60 inch high dump enables unloading debris into roll-offs up to 5-feet high without requiring a lift or ramp
- Unique air-routing and filtration system get the work done faster, safer, and more productively



Flusher Truck



Flusher truck 4000 gallon 120 GPM water tank teamed with a Hydro-Vac unit to clean out drainage structures



Hi-Rail Truck



- Slot Trenching is used to locate both known and unknown facilities in the ROW.
- Can be completed by both standard and hi-rail hydrovac.

Excavation Types



Deep Excavation

Trenching



Potholing



Gas Main Pit



Orlando 408 Bridge Deep Excavation Cofferd Dam



Remote Capabilities



Hydro-Vac Construction Advantages



- No damages to existing facilities
- Minimal ground disturbance
- Safety and protection of personnel on site
- Excavation footprint much smaller than traditional excavation
- Reduced downtime
- Increased productivity
- Potholing of utilities allows updating of facility maps
- 100% verification allows heavy equipment to be more productive
- Loss of business revenue

I-4 Ultimate Project

I-4 is Florida's largest transportation project in its history and one of the largest transportation P3s in the US.

\$2.3 Billion Project

The project includes reconstruction of 21 miles of I-4 from west of Kirkman Road in Orange County to east of State Road 434 in Seminole County. The project includes reconstructing 15 major interchanges; constructing more than 145 bridges; adding four variable priced toll Express Lanes in the median; and completely rebuilding general use lanes along the entire corridor.

Work also includes installation of tolling gantries and facilities, lighting, and intelligent transportation system, MSE walls, barriers and fencing. Landscaping the project will include 30,000 trees and 68,000 shrubs.

Over 5,500 Utility conflict on the conflict matrix for the project



The FDOT Procurement Office received and logged administrative submittals, technical proposals and financial proposals from four teams – a huge undertaking!



I-4 Ultimate Project



Golly Gee Wiz Facts

591,250 cubic yards of concrete is enough to fill the Citrus Bowl 1 ½ times.

1.74 million linear feet of piles driven into the ground to support bridges, overpasses, ramps and other structures. If placed end to end, they would stretch from Jacksonville to Pensacola.

2.25 million square feet of bridge deck will be poured in the downtown Orlando section of the project, enough to cover nearly **30 soccer fields**.

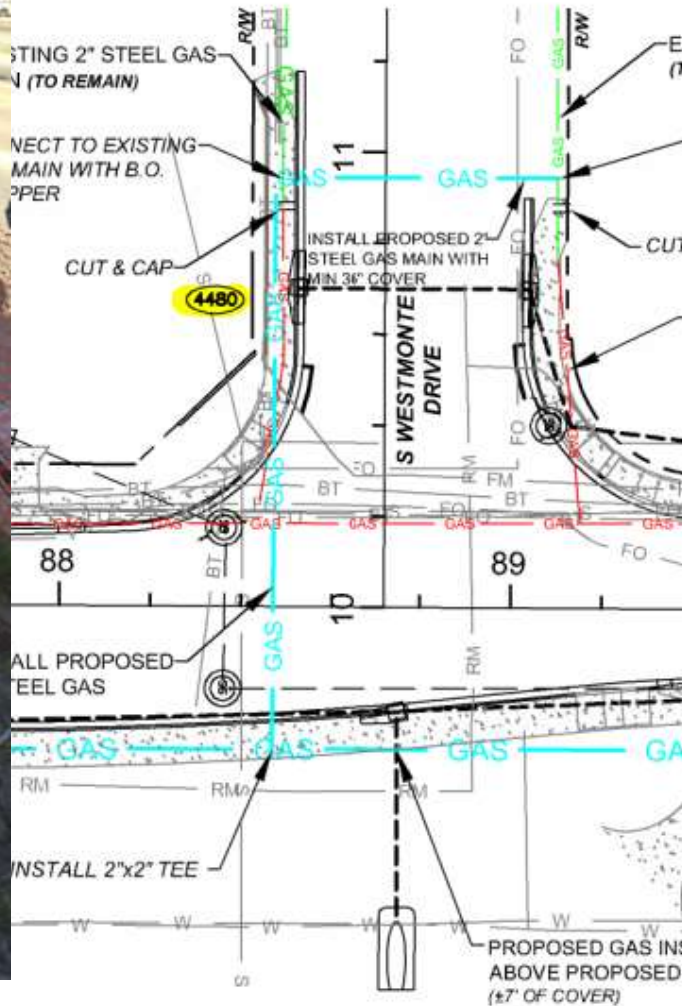
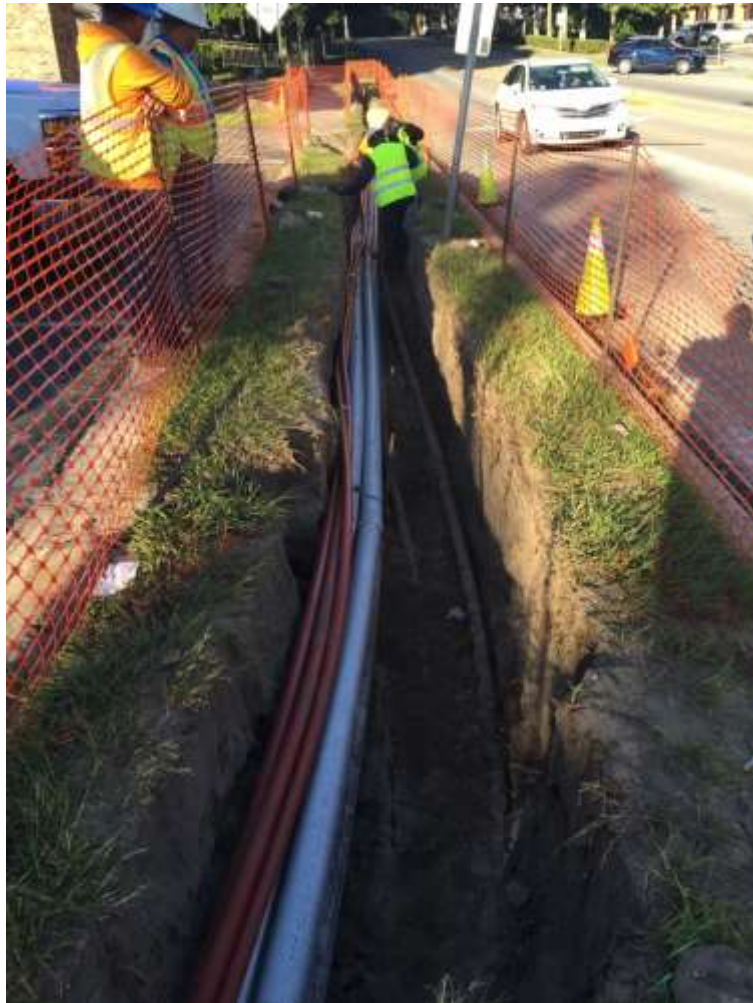
6.7 million cubic yards of fill material is needed for the project. This would fill enough dump trucks to line up nose to tail from Miami, Florida to Bangor, Maine on I-95.



Westmonte and Wymore Conflicts



Westmonte and Wymore Gas Main Conflict



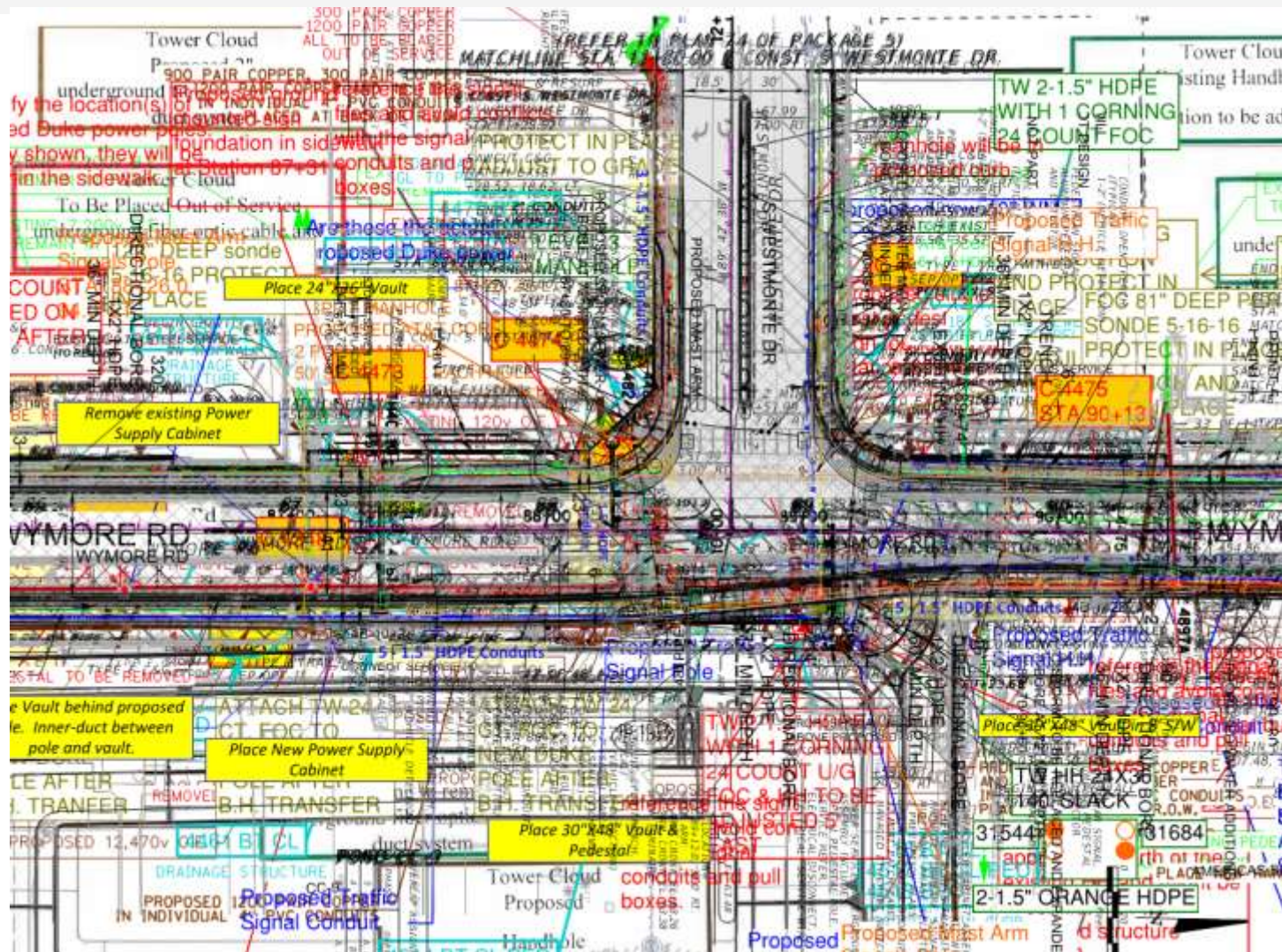
Westmonte and Wymore Gas Main Conflict



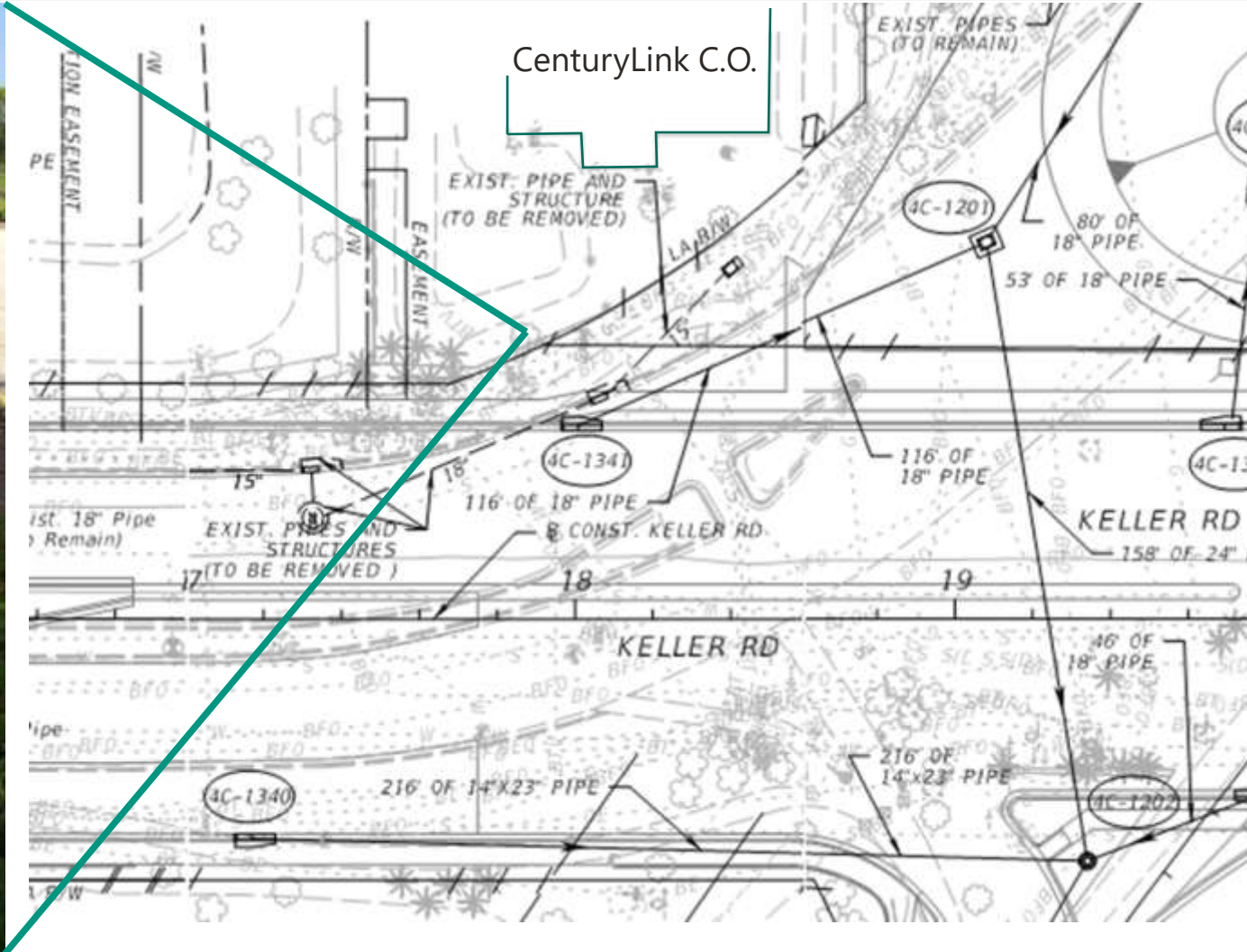
This location was a conflict with an exist 2" gas main and a proposed curb inlet. Vacuum excavation was done to place the other utilities shown. The gas main was able to moved laterally approx. 18" to avoid have to make 2 road bores to relocate. Savings approx. \$65,000.00

Westmonte and Wymore

Teco Gas
At&t Corp
Spectrum (BrightHouse)
Level 3 communications
CenturyLink
TowerCloud
TW Telecom
Duke Power
Verizon/MCI
Signalization
Mast Arm foundations



Keller Road Project



Complete road realignment with 9 fiber telecoms going in and out of the CenturyLink central office. That will need to be relocated prior to construction



Keller Road Project



Keller Road Project



Keller Road Project



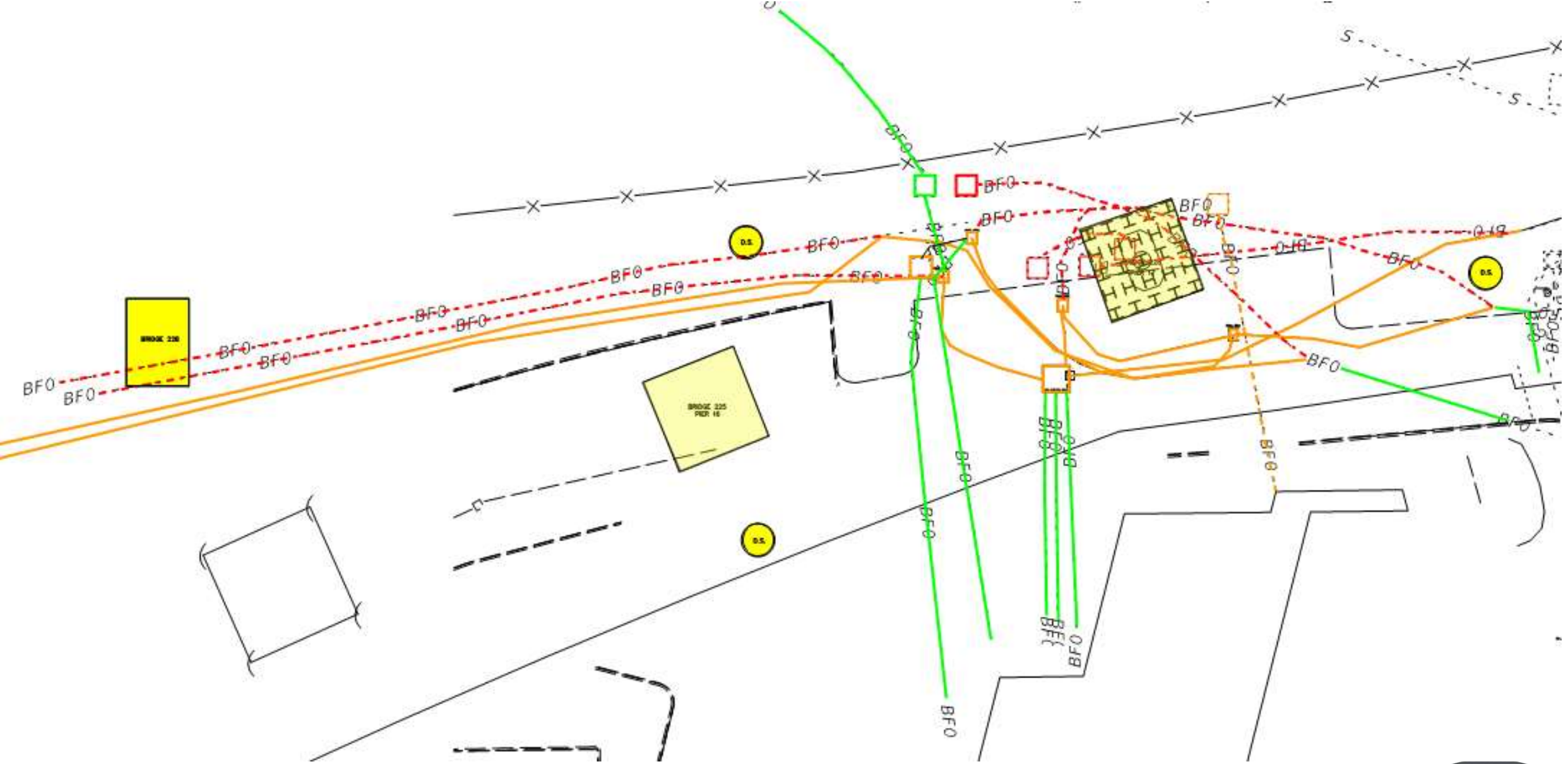
Keller Road Project





- **APPROXIMATELY 43 DAYS TO COMPLETE IN THE FIELD**
- **RELOCATED 9 HANDHOLES AND FIBER CABLES**
- **SPLICES = 0**
- **SERVICE OUTAGE = 0**
- **MONTHS PRIOR TO ROAD CONSTRUCTION**
- **TOTAL COST OF RELOCATION BY EACH UAO APPROX. \$3.7 MILLION**
- **COST TO RELOCATE WITH HYDRO-EXCAVATION APPROX. \$120,000**





100 Lake Lucerne Project





Communication, Coordination, Cooperation, Commitment



100 Lake Lucerne Project







100 Lake Lucerne Project



The effects of a 100 year old oak tree and telecommunications conduit



“The Kraken”



100 Lake Lucerne Project



100 Lake Lucerne Project



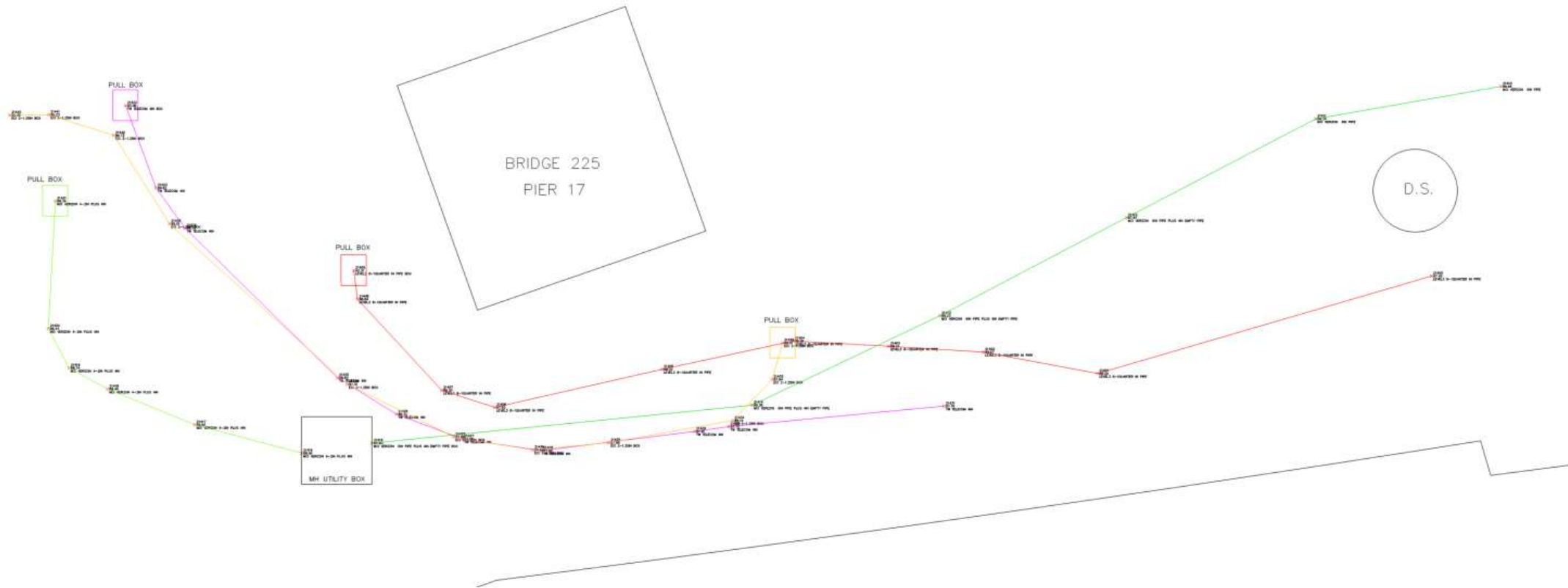
100 Lake Lucerne Project



100 Lake Lucerne Project



100 Lake Lucerne Project



100 Lake Lucerne Project



100 Lake Lucerne Project



100 Lake Lucerne Project



100 Lake Lucerne Project



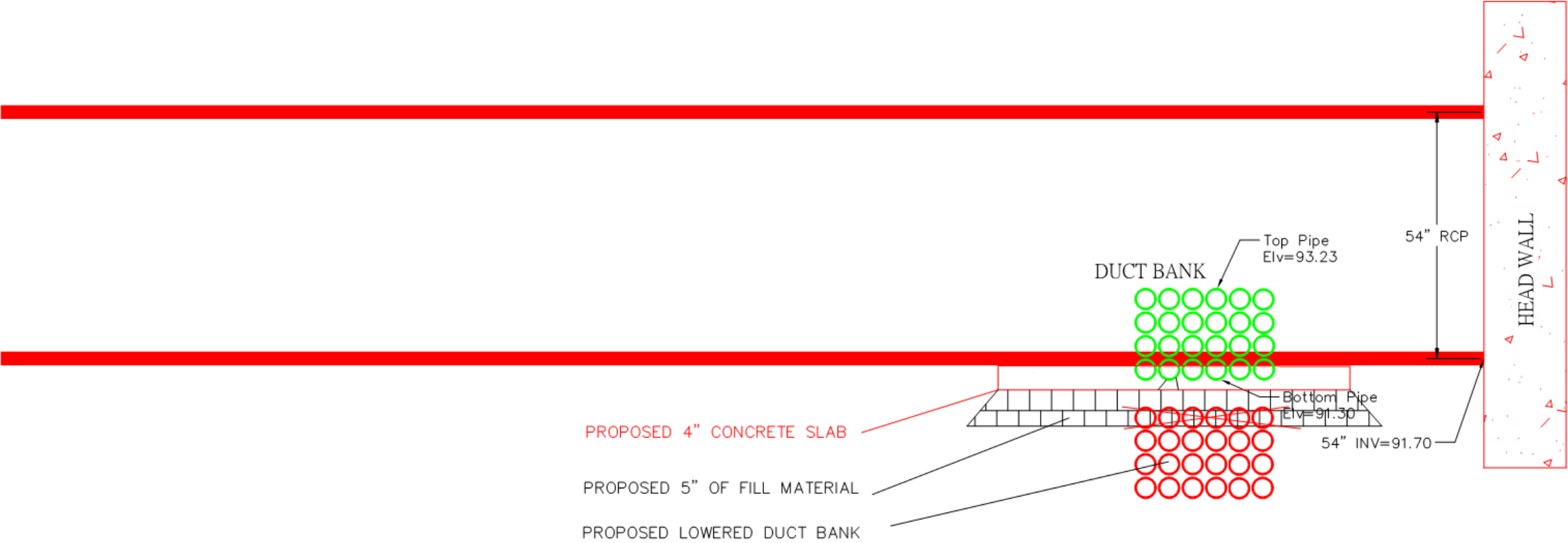
- **APPROXIMATELY 90 DAYS TO COMPLETE IN THE FIELD**
- **RELOCATED 6 HANDHOLES AND FIBER CABLES**
- **SPLICES = 0**
- **SERVICE OUTAGE = 0**
- **1 YR PRIOR TO BRIDGE CONSTRUCTION**
- **TOTAL COST OF RELOCATION BY EACH UAO APPROX. \$3.1 MILLION**
- **COST TO RELOCATE WITH HYDRO-EXCAVATION APPROX. \$150,000**



At the I-4 Ultimate project in Orlando, the Skanska-led joint venture construction team, SGL Constructors, has completed the critical State Road 408 (S.R. 408) portion of the 408/Interstate 4 (I-4) interchange, ahead of schedule.



AT&T Florida I-4 Crossing



AT&T Florida I-4 Crossing



Badger was able to vacuum excavate to lower this 24-4" At&t conduit to clear dual 54" drainage RCP



AT&T Florida I-4 Crossing



AT&T Florida I-4 Crossing



AT&T Florida I-4 Crossing



Noticed that the at&t had 24 - 4" conduit crossing I-4. At the manhole "J" hole, 16 - 4" conduit to the field. At&t will never use more than 16 pipe to the field. Cut the top 6 conduit to get final clearance needed

- **RELOCATE 24 WAY AT&T CONDUIT RUN WITH AND FIBER COPPER CABLES**
- **SPLICES = 0**
- **SERVICE OUTAGE = 0**
- **18 MONTHS TO RELOCATE**
- **TOTAL COST OF RELOCATION BY UAO APPROX. \$1.5 MILLION**
- **COST TO RELOCATE WITH HYDRO-EXCAVATION AND LOWERING IN PLACE LESS THAN \$15,000**
- **2 DAYS TO COMPLETE**



76" casing for 72" 105' transmission pole



3 1.25" conduit with a 288 fiber and a 96 fiber. Moved approx. 2.5' to clear proposed casing. Vacuum excavated and cable slack pulled from nearby handholes. Casing was placed and split conduit placed on working fiber cables. 3 hours to complete.



84" casing for 72" 105' transmission pole



Fiber cable running directly through excavation.

Vacuum excavated and moved cable and conduit approx. 3' to clear casing. 1.5 hours. Both casings place in same day.



Duke Transmission LV project Orlando



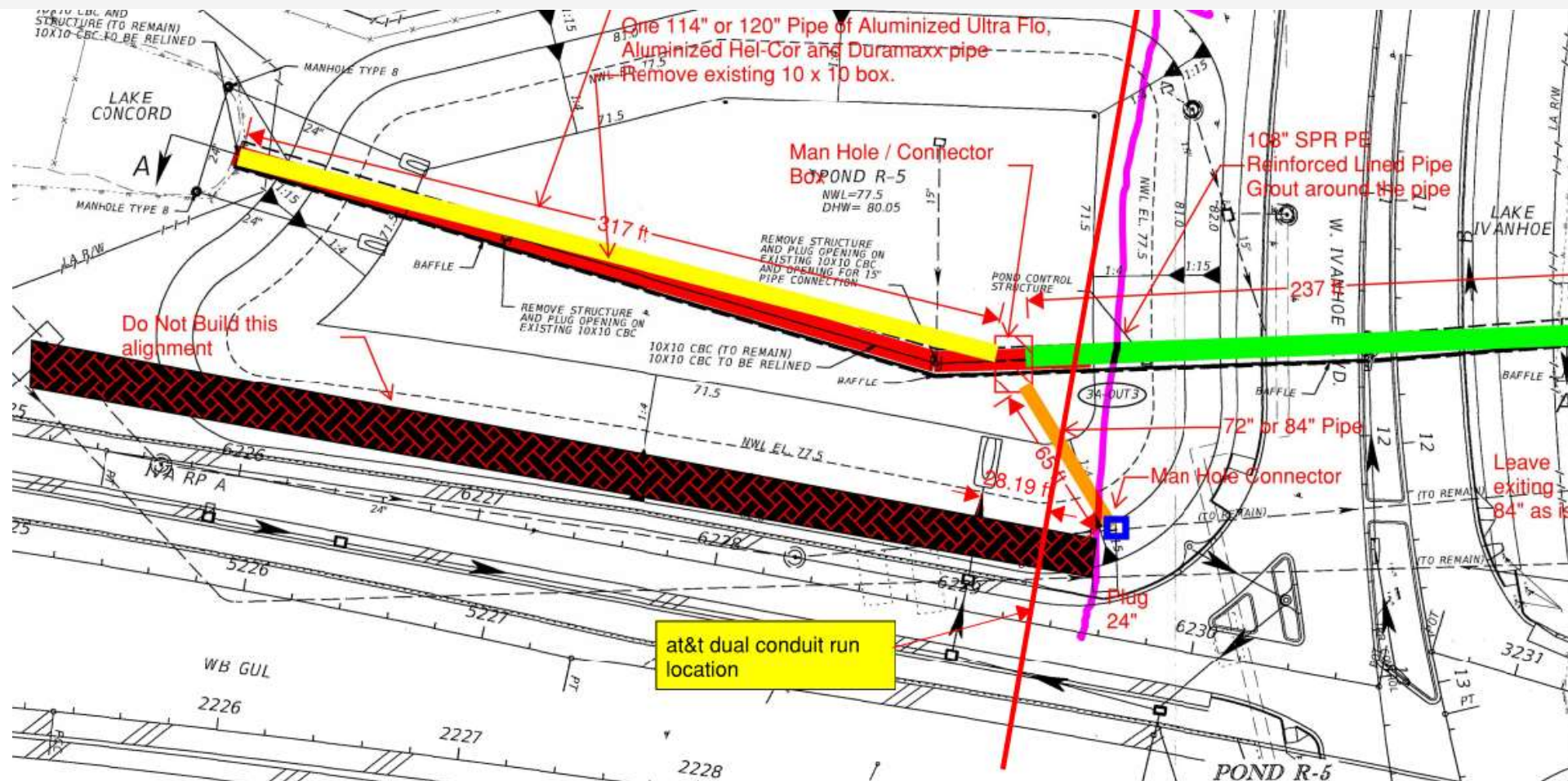
Duke Transmission LV project Orlando



Duke Transmission LV project Orlando



Ivanhoe Pond Conflict



Conflict with at&t dual conduit run in conflict with the proposed pond at Ivanhoe off ramps and I-4. would require a complete relocation costing approx. \$1.5 Million and a 2 year schedule impact. Outside the box thinking resulted a pond reconfigure to get the proper volume and leave the facilities in place.

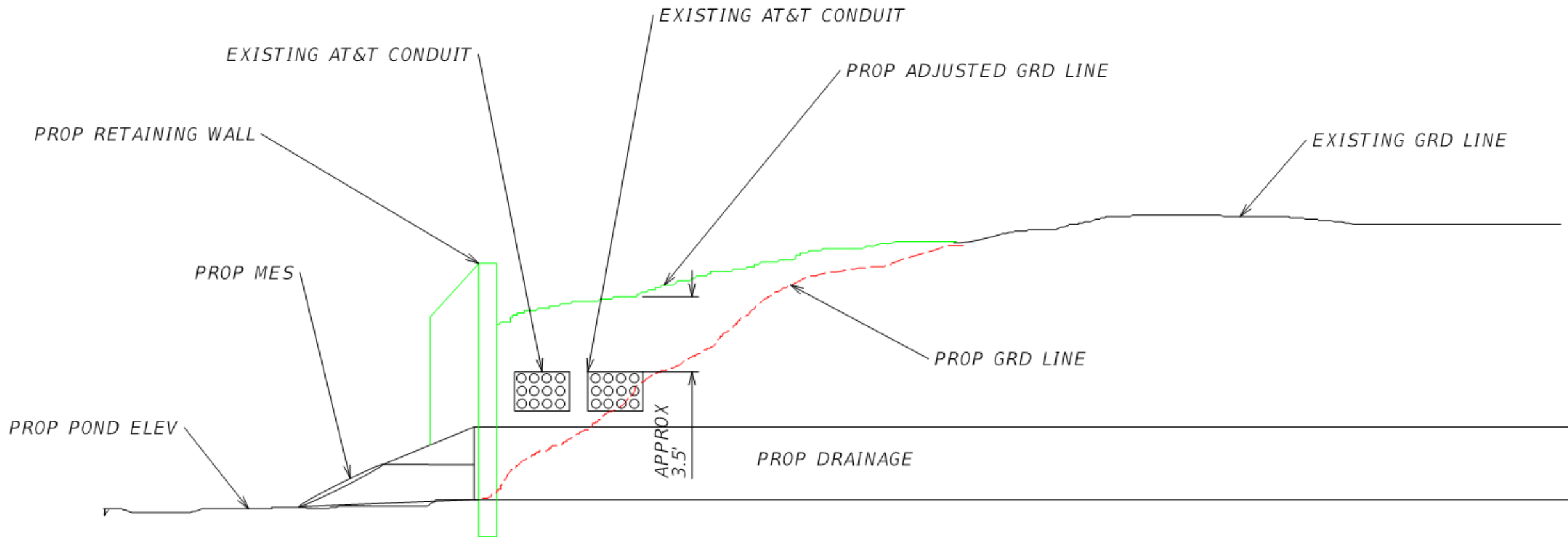
REVISIONS	DATE	DESCRIPTION	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			AREA 3 SHEET NO.
			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
			400	ORANGE	432193-1-52-01	

EDDIE RAYMOND JOYNER, PE
 PE LICENSE NUMBER 54620
 JACOBS ENGINEERING GROUP INC.
 1551 SANDSPUR ROAD, SUITE 200
 Maitland, FL 32751
 CERTIFICATE OF AUTHORIZATION 2822

POND DETAIL SHEET



Ivanhoe Pond Conflict



Cross section proposal to eliminate the conflicts.

SR 30A Special Drainage Project

CR 30A Drainage Project Walton County, Florida

Issue: Long time standing water after minimal rain event.

Effects: High volume of water limits pedestrian usage through this section.

Safety: Large number of walking and bike traffic can force pedestrians to merge into traffic or cross the road creating a safety hazard.

Challenge: Install a vertical drainage system due to minimal R.O.W. restrictions.

Material: One 48" Dia. X 10' Long perforated ADS pipe wrapped in fabric to minimize the silt intake, installed vertically with rock in the pipe. A steel grate was placed on top of the pipe and large stone placed on the grate.

Time to complete: 3 Hours. This included removing 2500 gallons of standing water prior to installation.

Cost: \$1503.00

Outcome: Reduce safety hazards for the general public.



SR 30A Special Drainage Project



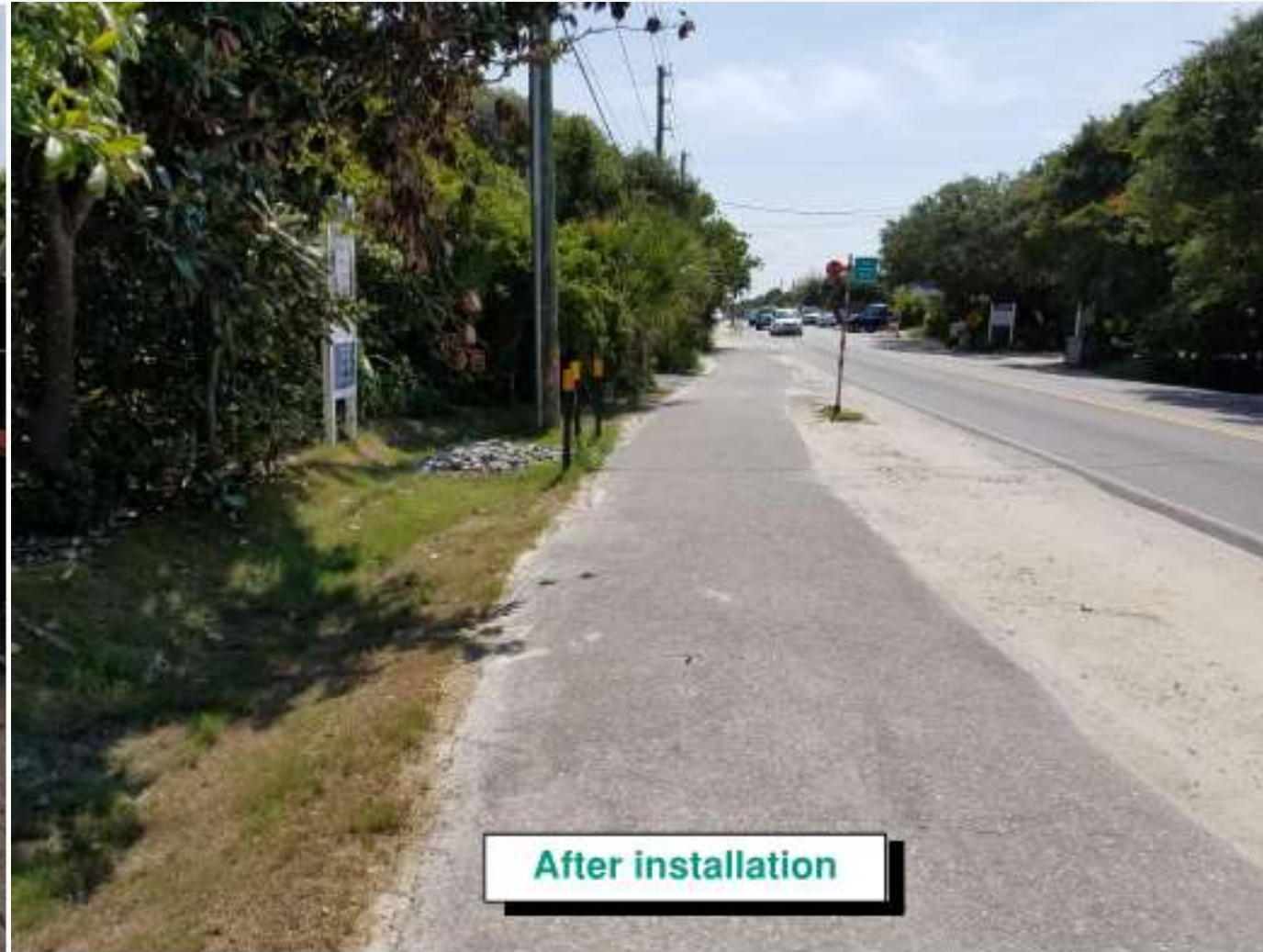
SR 30A Special Drainage Project



SR 30A Special Drainage Project



SR 30A Special Drainage Project





Capabilities Statement



The Badger service employs a variable pressured water wand to loosen the soil and a powerful vacuum to simultaneously remove the spoils to the onboard debris tank.

Badger performs a full field assessments before each project.

Badger incorporates a detailed training and safety program.

Safe and productive Badger service is achieved through daily attention and compliance with our safety culture. The Badger Team identifies required qualifications and training and meets or exceeds Owner/Client and industry standards.

The Badger Team is committed to protect the force, the existing facilities, and the environment.

Multiple Badger units and qualified crews available for prompt response to meet every project schedule and manpower needs.

Point of Contact

Larry Hill
407.408.5355
lhill@badgerinc.com
Telecommunications Manager North America

Phone
1.877.322.3437

Website
<https://www.badgerinc.com/>

U.S. Address
8930 Motorsports Way,
Brownsburg, Indiana 46112

Core Capabilities

- ✓ Daylighting
- ✓ Utility pole holes
- ✓ Slot trenching
- ✓ Service pits
- ✓ Trenching
- ✓ Debris removal
- ✓ Anode installations
- ✓ Shoring installations
- ✓ Pipeline crossing
- ✓ Pipeline tie-ins
- ✓ Tank cleanouts
- ✓ Emergency response
- ✓ CCTV
- ✓ Line Jetting
- ✓ Flushing
- ✓ Culvert Cleaning
- ✓ Catch Basin Cleaning

Non-Destructive Hydro-Excavation

Badger operates in all 48 contiguous states

Eastern USA	1.877.322.3437
Midwest USA	1.877.322.3437
Western USA	1.866.393.3344
Pacific USA	1.877.341.2234

badgerinc.com

Corporate Information

★ DUNS Number: 10643734

★ CAGE Number: 1TLN7

NAICS Codes

237110 Water and Sewer Line and Related Structures Construction
238990 All Other Specialty Trade Contractors (Posthole digging)
237120 Oil and Gas Pipeline and Related Structures Construction
237310 Highway, street and bridge construction
237990 Other Heavy and Civil Engineering Construction
238910 Site Preparation Contractors
561990 All Other Support Services
562998 All Other Miscellaneous Waste Management Services
562119 Other Waste Collection
213112 Support Activities for Oil and Gas Operations
237130 Power and Communication Line and Related Structures Construction

Badger Daylighting is proud to have worked on over 100 military bases including:

- Langley AFB, VA
- Norfolk Naval Shipyard, VA
- Newport News Shipyard, VA
- Minot AFB, ND
- Grand Forks Air Force Base, ND
- Aberdeen Proving Ground
- Fort Detrick, MD
- National Security Agency
- Fort George G. Meade, MD
- United States Naval Academy, MD
- NASA Goddard Space Flight Center, MD
- Walter Reed National Military Medical Center, MD
- Joint Base Andrews, MD
- Joint Base Anacostia Bolling
- U.S. Naval Research Laboratory, Washington, D.C.
- Fort Belvoir, VA
- Quantico USMC Base, VA
- Arnold AFB, TN
- Ft. Campbell (TN Side)
- Millington Naval Base, TN
- Tennessee State Military Base, TN
- Columbus Air Force Base, MS
- Rickenbacker AFB, OH
- DCSC Administrative, OH
- Battle Creek Air National Guard Base Air Force, MI
- Selfridge Air National Guard Base Air Force, MI
- AIRSTA Detroit Coast Guard, MI
- AIRSTA Traverse City Coast Guard, MI
- 180th ANG, OH
- Camp Grayling, MI
- Carlisle Barracks Army Base, PA
- Tobyhanna Army Depot Base, PA
- Letterkenny Army Depot Army Base, PA
- NSA Navy Base Mechanicsburg, PA
- New Cumberland Army Depot Army Base, PA
- Camp Atterbury, IN
- Crane Naval Base, IN
- Fort Benjamin Harrison, IN
- Grison Airforce Base, IN
- US Navy Yard/NAVSEA, PA
- Wright Patterson AFB, OH
- US Ravenna Army Ammunition, OH
- 180th Fighter Wing, OH
- Eglin Air Force Base, FL
- Hurlburt Field AFB, FL
- Tyndall AFB, FL
- Patrick AFB, FL
- MacDill AFB, FL
- Redstone Arsenal, AL
- Naval Air Station Pensacola, FL
- Keesler AFB, AL
- Whiting Field, FL
- Hansom AFB, Bedford, Ma.
- Natick Labs, Natick, Ma.
- Hill Air Force Base
- Camp Williams
- National Guard Gowen Airfield, ID
- Mountain Home AFB, ID
- Naval Research Facility, ID
- Hill AFB, UT
- Fort Hood, TX
- Camp Mabry, TX.
- Fort Huachuca Army, AZ
- Davis-Monthan AFB, AZ
- Nellis Air Force, NV
- Creech Air Force, NV
- Luke Air Force, AZ
- Kirtland AFB
- Sandia National Labs
- Los Alamos National Labs
- W.I.P.P (waste isolation pilot plant)
- Cannon AFB, NM
- Holloman AFB, NM
- White Sands Missile Range, NM
- Tinker AFB, OK
- Vance AFB, OK
- Peterson AFB, CO
- Schriever AFB, CO
- United States Air Force Academy, CO
- Westover AFB base
- Barnes Air National Guard Base
- Picatinny Arsenal, NJ
- Naval Weapons Station, NJ
- Joint Base McGuire-Dix, NJ
- West Point Military Base, NY
- Newport Navy Base, RI
- Hansom AFB, MA
- Natick Labs, MA
- Wilmington, NC
- Cherry Point, NC
- Camp Lejeune, NC
- Ft. Gordon, GA
- Ft. Benning, GA
- Robins Air Force Base, GA
- Fort Carson, CO
- Shaw AFB, SC
- Charleston AFB, SC
- Fort Jackson, SC
- Ft. Bragg US Army base, NC
- Seymour Johnson AFB, NC
- Fort Jackson, SC
- FE Warren AFB, WY
- Defense Supply Center (DSC-R), VA
- Defense Logistics Agency (DLA), VA
- Hunter Holmes McGuire, VA
- Fort Lee, VA
- Fort Pickett, VA
- Naval Air Station, VA
- Naval Air Station, VA
- Joint Expeditionary Base, VA

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MILITARY MAKEOVER OPERATION CAREER



**Badger Daylighting: Helping Veterans Succeed
A Growing Company That Cares About Its Employees**

Badger Daylighting is a proud supporter of our military. They know the hard work and long hours our servicemen and women provide to our country.

As a leader in the field of non-destructive hydro-excavation services, Badger is on a "search & employ" mission. They're looking for men and women who have left the military and are interested in becoming supervisors, mechanics, drivers, and machine operators for a growing company that cares about its employees.

Since 1992, Badger has been innovating cutting-edge technology and providing services to a diverse customer base, including oil and gas, energy, industrial, construction, transportation, and other markets, as well as numerous government agencies within Canada and the United States.



Certifications



The Badger Hydrovac System has been designed from the ground up for safe excavating.

Our industry-leading health and safety program meets the requirements set by major oil and gas companies and large utilities, and provides crews with the guidance to complete the work without incident.

Required Badger Operator Training

- OSHA 10
- First Aid/CPR
- Mentor Competency
- Hazcom/MSDS
- Fall Protection
- Site Control
- Electrical Awareness
- Confined Space
- Bonding & Matting
- H2S Awareness
- Trench Safety
- Smith System Driving/CDL

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