



After the snowplow drives through, does your mailbox resemble the photo to the left?

Chuck Scripp has found a solution that works!

Assembled from scrapped parts and designed to break away in the event of a direct impact, Chuck makes a unique and practical statement. (Photos to the right and below.)



Ken O'Hara makes his own unique statement... This is what happens when you fix your mailbox in the dark before you leave for work with recycled wood, a screw gun, and tons of exasperation! (Photo at left.)

## Mailbox Makeovers



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## BID CALENDAR

### February, 2011

MDC Disinfection Improvements  
East Hartford, CT

WPCF Upgrade  
Putnam, CT

WPCF Contaminated Soil Removal  
Putnam, CT

West Avenue & Gulf Pond Pump Stations  
Milford, CT

Walsh Well Field WTF  
Mansfield, MA

UV Disinfection Facility  
Marlborough, MA

### April, 2011

Design/Build Station No. 1 and Lawton Valley Water Treatment Plants  
Newport, RI

## AWAITING AWARD

Sewer Plant Closure and Pumping Station  
Southbury Training School  
Southbury, CT

Heritage Village WWTF Biological Nutrient Removal Upgrades  
Southbury, CT



Newport - Dec. 2010

## Winter at the Beach

NEWPORT, RI - Twenty-eight times during the past five summers, Easton's Beach, one of the most popular summertime attractions in Rhode Island's tourism capital, has been ordered closed by state health officials because spiked pollution levels made its waters unsafe for swimming. Nickerson was awarded the construction contract to correct these problems.

Construction is progressing on the Easton's Beach Stormwater Ultraviolet Disinfection System project which was designed by Fuss & O'Neill, Inc. to handle 1.2 inches of rain in a 24-hour period, or 93 percent of all storms.

The ultraviolet disinfection process kills microorganisms, from bacteria and viruses to algae and protozoa. The technology is used in air and water purification and to treat sewage. UV treatment is capable of disinfecting water faster than chlorine without retention tanks and harmful chemicals. The Easton's Beach system is the first application of UV treatment on stormwater runoff applied at a beach in New England as well as the largest of this type in North America.

The \$5 million plant is scheduled to be substantially complete by the end of March, 2011.

## Newport Design Build

The long-anticipated Request For Proposal for the Newport design/build project is finally out and Nickerson has linked up with joint venture partner AECOM to work on a proposal for the roughly \$60 million water plant upgrade. The job consists of major improvements to two separate facilities that supply the City of Newport's drinking water. Should the Nickerson/AECOM team's design be selected, construction will begin in the fall/winter of 2012.

Nickerson and AECOM, parent company of Metcalf & Eddy, Inc. and Earth Tech, Inc., have a long history of successfully working together; a history spanning several decades and dozens of projects. AECOM is listed on the Fortune 500 as one of America's largest companies and is listed on Engineering News-Record's (ENR) 2010 Top 500 Design Firms' rankings, where AECOM is ranked #1 overall and #6 on the 2010 Top 200 Environmental Firms. Nickerson has consistently ranked in the top 100 Environmental Firms. Together we make a strong team with the experience and expertise to design and build a quality product.

We are currently working with AECOM on the Influent Pump Upgrade project in Cheshire, CT and are just finishing up the Water Pollution Control Plant Denitrification Facilities in Southington, CT.

Nickerson/AECOM will use its many years of experience to find a unique design feature on this project - something that both distinguishes its proposal and reduces the overall cost to the City of Newport. It will be a challenge, but Jon Miller says he's confident Nickerson will come up with something.

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## MDC HARTFORD

### UV Disinfection Project

Nickerson was contracted by the MDC to construct a new UV Disinfection Facility and a new Electrical Building with a 1000 kilowatt diesel engine back-up generator. In order to incorporate the new facilities into the existing infrastructure we need to construct a by-pass structure and new 8' x 8' cast-in-place conduit with motor operated gate structures. During the project we will need to perform two full plant bypasses. The first bypass is to divert the Primary Effluent Flow around the new structure so that ultimately, existing sections of the Primary Effluent Conduit can be removed to allow for the Secondary Effluent Conduit to connect to the new UV Disinfection Facility. The second bypass will be required to tie into the Secondary Conduit. The Plant sees average daily flows of 40 – 50 MGD. The bypass pumping needs to be able to handle a capacity of 120 MGD. We have mobilized onsite and relocated several existing utilities in the way of the new facility, installed dewatering wells and are getting ready to start driving sheets. CH2M Hill and Woodard & Curran are the Design Engineers. The project is scheduled to be completed in May 2012.

### Odor Control Project

Nickerson was also contracted to furnish and install an Odor Control System at the Sludge Process Building. It consists of a new radial flow-activated carbon adsorption system, and new FRP and stainless steel ductwork. The equipment will be set on a pad on the exterior of the Sludge Process Building and then tied into existing stainless ductwork inside the building. Stearns & Wheeler is the Design Engineer. The project is to be completed July of this year.

~ Alan Pagnamenta  
Project Manager



October 8, 2010

## Beginning Phase II

Work at the South Windsor Water Pollution Control Authority Upgrade project the Phase I new construction has been completed and some of the Phase II work has begun. The Town is occupying the new Administration Building

including the Laboratory which achieves completion of a major milestone in the construction schedule. Final completion is scheduled for late 2011.

~ Stanley Bujalski  
Executive Vice President

## Thomaston Completed

Nickerson was awarded the Waterbury Water Treatment Plant Disinfection System Improvements project back in Spring 2009. The work consisted of demolition and removal of the existing gaseous chlorine system, including the gas detection system and all related equipment. Nickerson handled all of the demolition work including the replacement of the exterior masonry and work in the secondary containment area to provide a new home for the five 6,500 gallon storage tanks and day tanks. The proposed new system consisting of a liquid sodium hypochlorite alternative was successfully installed and tested this summer. The new system is currently running off a new PLC controller and a new interface conforming to their existing SCADA requirements. Nickerson has kept in contact with the City of Waterbury and it appears all is running as intended.



Thank you to all the personnel on the project for your efforts in making this a successful project.

~ John Russo  
Project Manager

## Vibro-Compaction in Pittsfield

At the Aeration Upgrade Project in Pittsfield, MA vibro-compaction was used to densify the cohesionless soil so the building foundation would not settle due to seismic liquefaction. Vibro-compaction involves using a vibrator, accompanied by water jetting, to penetrate the ground up to 100 feet. This rearranges the soil particles and creates a denser configuration. This process creates 10 to 15 foot craters in the ground. Backfill is then added and compacted as the vibrator is slowly lifted to the surface which fills the void created by the densification of the soil particles. This process is repeated in a grid pattern with 6 feet spacing between compaction points.



At the Aeration Upgrade Project in Pittsfield, MA the building foundation, which was 62'-8" x 38', required 96 compaction points. A total of 1,148 cubic yards of backfill was used to fill the voids!!

~ Dan Tiso  
Project Manager



## Liquid Nitrogen Injection

July 2010

Remember July of 2010? There were 15 days with 90°F+ highs (34 total for the year) and 2 days over 100°F. So if the air is over 90°F how can you place concrete when the specification states that the concrete can't be over 70°F? Solution: Add liquid nitrogen to the mix, -321°F, and start at midnight. The eerie looking scene above was taken during injection of liquid nitrogen into the concrete mix for the mass structures at the Middletown, CT Re-Powering Project. Nickerson was contracted by Gemma Power Systems, LLC for the concrete foundation work. The special mix was supplied by Tilcon Connecticut, Inc.

~ Stanley Bujalski  
Executive Vice President

## Step Up To Safety

To assist our field personnel in their efforts to keep their jobsites injury free and stay in compliance with OSHA Regulations and Nickerson Safety Policies, we have asked for help from some outside sources available to us. Some of you may have already met the Consultants and Loss Control Specialists providing inspection services.

**Mike Yenor** - Loss Control Representative for Travelers Insurance will be helping us with inspections and making suggestions based on his observations.

**Greg Cormier** - Loss Control Representative for CNA Insurance will be providing suggestions and recommendations that will help eliminate losses from injuries to employees and the employees of our subcontractors.

**Dan Gorman** - An experienced Safety Trainer, Consultant, and the owner of Safe at Work, a Connecticut based company that provides safety training and compliance to construction and industry based companies in New England.

**Adam Drummond** - An experienced Safety Trainer for both industry and construction workplaces, a Consultant, and President of National Safety Services.

They will all be making regular random visits to your jobsites and will share their recommendations with you, your project manager and everyone involved in the safety efforts of C. H. Nickerson. This effort to further control loss and enhance our Safety Program is a positive step to educate and heighten the awareness of our field personnel and keep our valued employees safe and injury free.

Thank you in advance for your help by assisting them in working toward eliminating injuries, and all your efforts to provide a Safe and Injury Free jobsite.

~ Grayson Cook  
Safety Director

## THE LOW DOWN

### Updates From Estimating

C. H. Nickerson was apparent low bidder and we are awaiting award on two projects:

► Southbury Training School Pump Station - This is a \$2.8 million CT DPW project that involves constructing a new pump station and force main at the existing Wastewater Treatment Plant. The existing plant will be dismantled and abandoned after installation of the new utilities.

► Heritage Village Wastewater Treatment Plant - This is a \$9.8 million upgrade to the existing treatment plant. We will be constructing two new secondary tanks, a new headworks building and additions to the existing aeration tanks. All of the equipment in the plant is being replaced and several new above-grade structures are being added.



### UPCOMING

This coming year appears to be a substantial improvement from 2010 regarding the number of projects being released for bid. We are currently bidding on a \$15 million upgrade to the Putnam, CT Wastewater Plant, a \$35 million UV Facility in Marlborough, MA and three smaller projects in CT. We are also working on a \$60 million joint venture with AECOM to construct one new Water Treatment Plant and renovate a second for the City of Newport, RI. There are two large projects bidding within the next six months; a \$90 million upgrade to the Mattabassett Wastewater Facility and a \$50 million upgrade to the Manchester, CT Wastewater Treatment Plant.

~ Ken O'Hara  
Vice President Estimating