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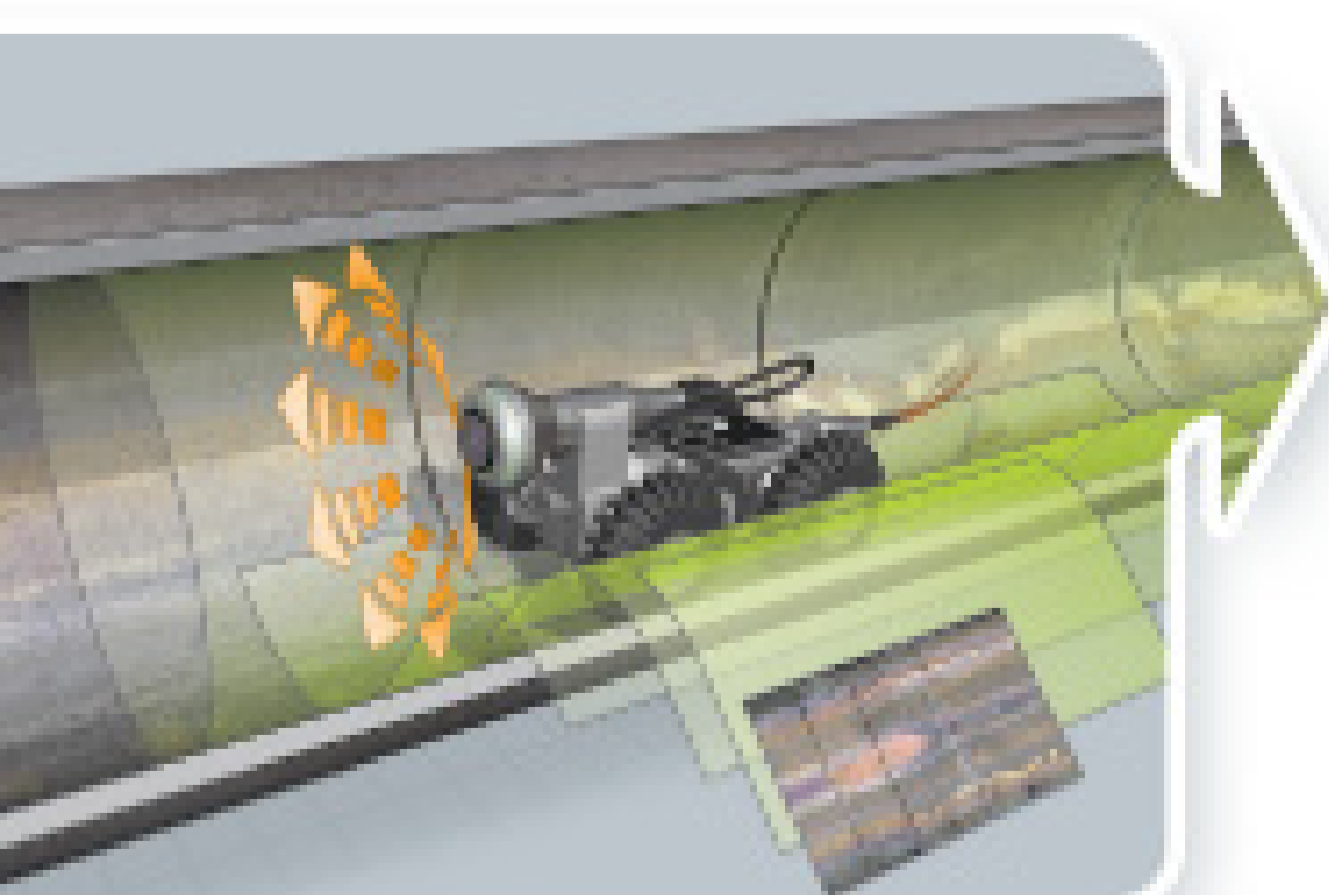
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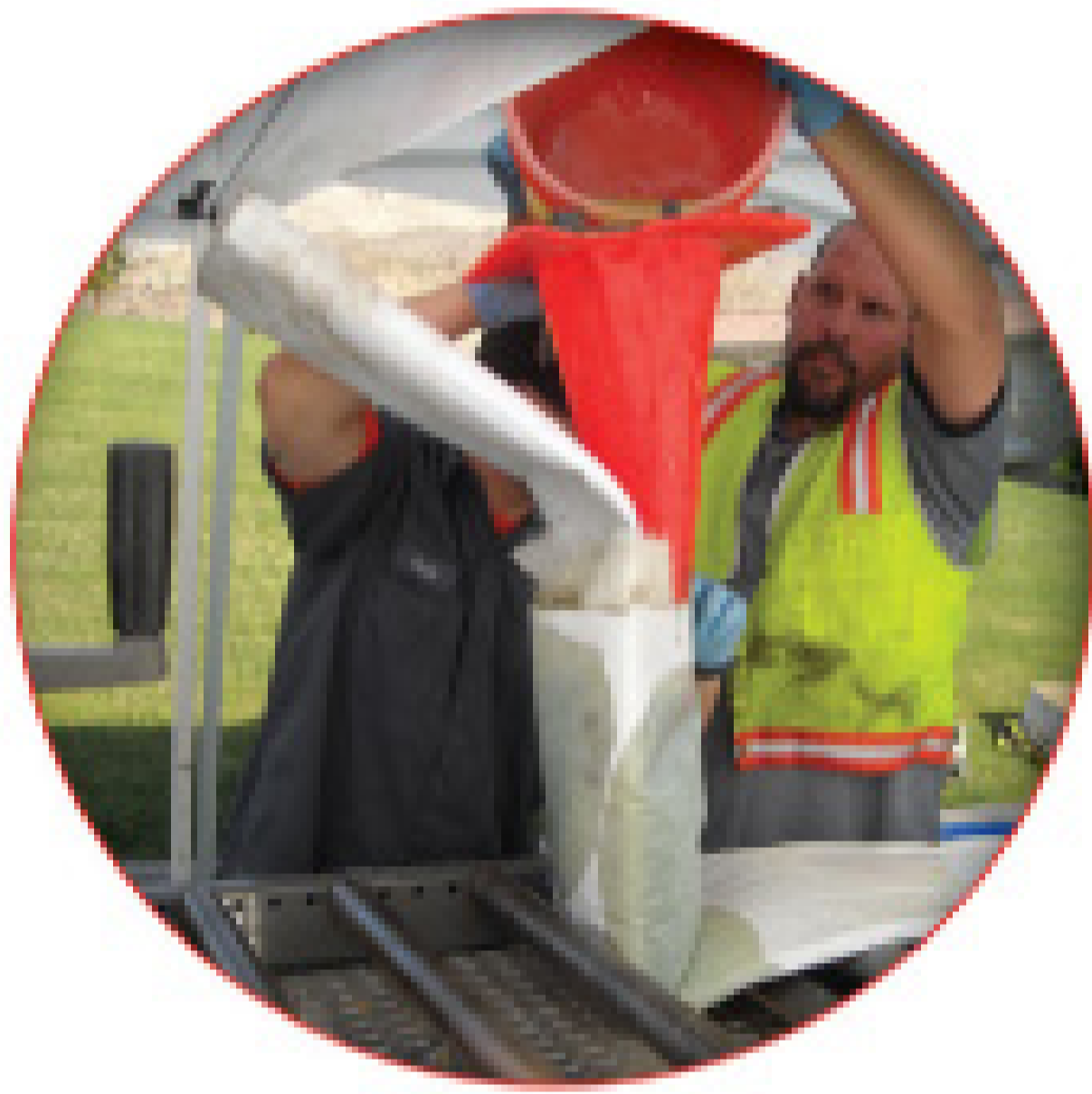
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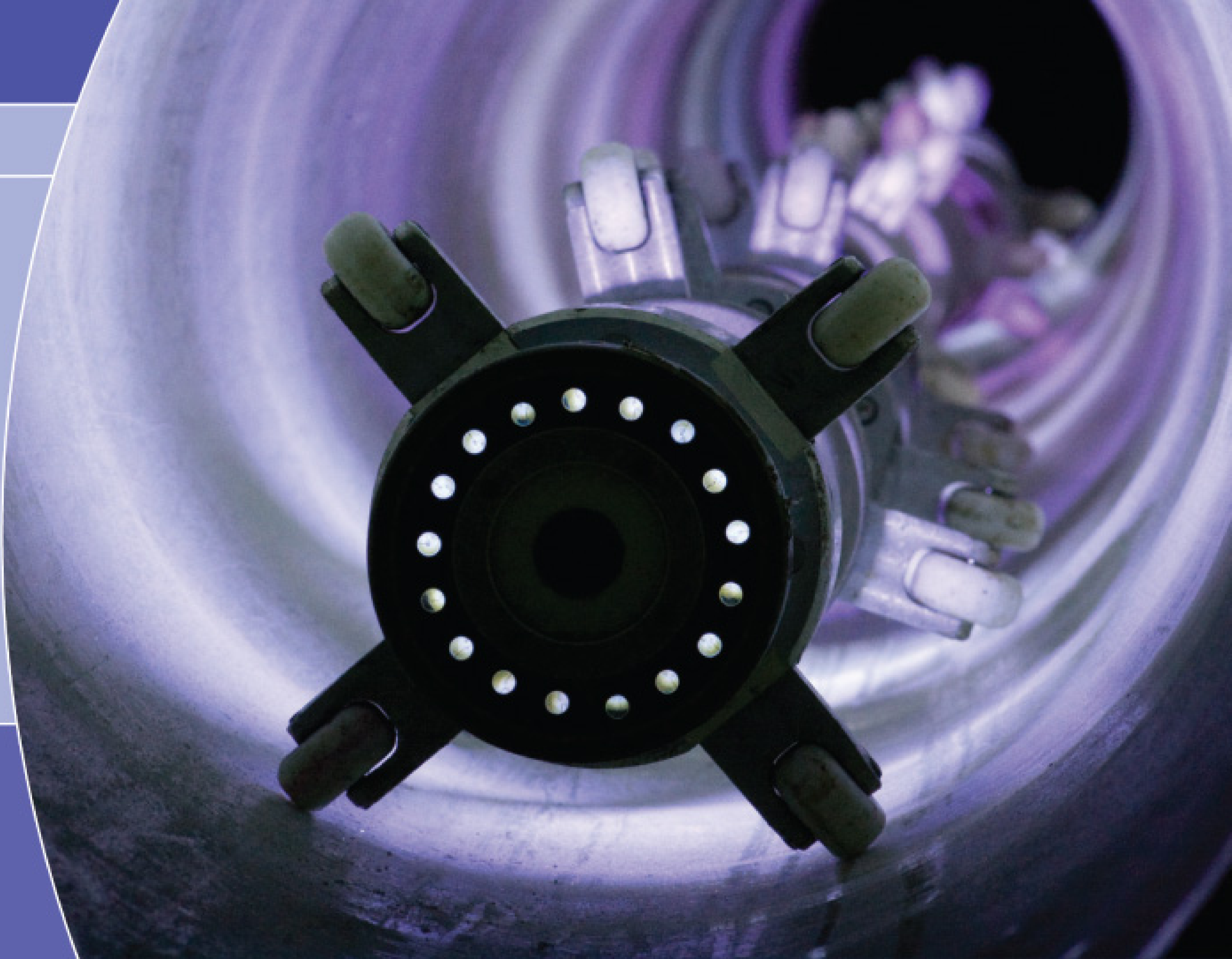
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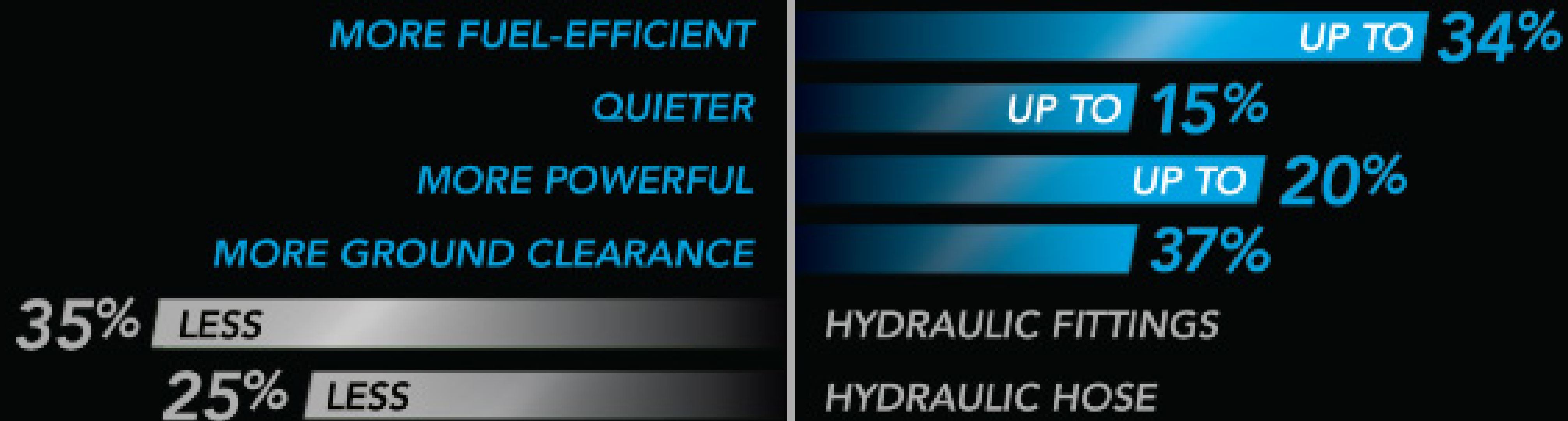
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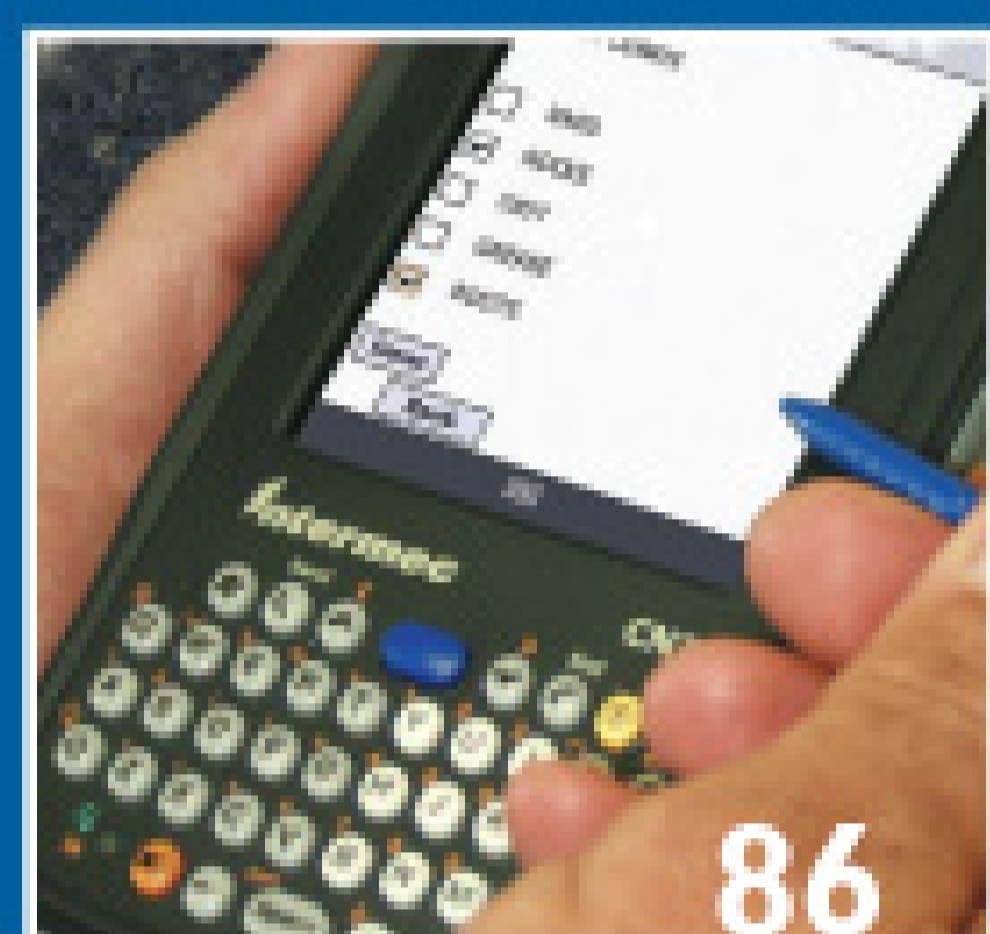
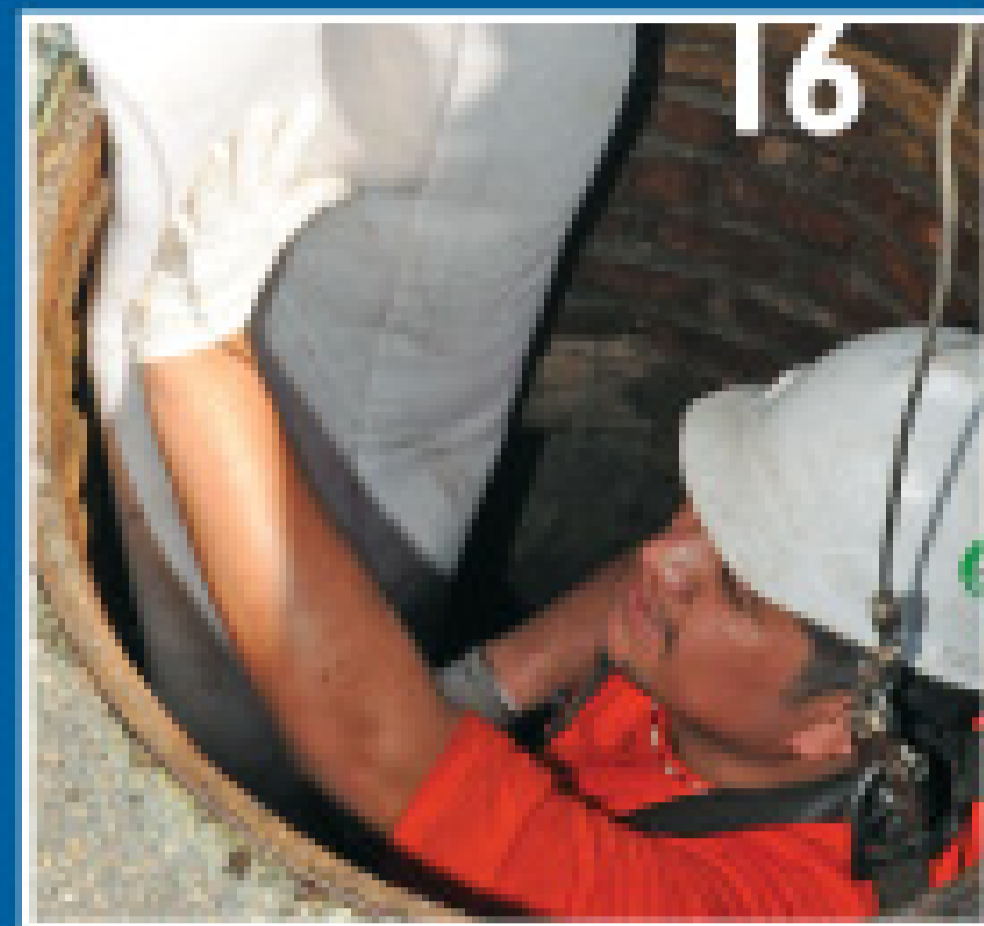
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INSIDE:

BUYER'S GUIDE / MANHOLES AND CATCH BASINS



COVER:

A comprehensive program to address I&I has helped the City of Corunna, Mich., reduce clear water flow into the sewer system by 20 to 30 percent and lift a building moratorium. The program covers sewer mains and manholes and will soon extend to sewer laterals. (Photos courtesy of the City of Corunna)



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- ◆ Water: System rehabilitation and upkeep at Pasadena Park Water District
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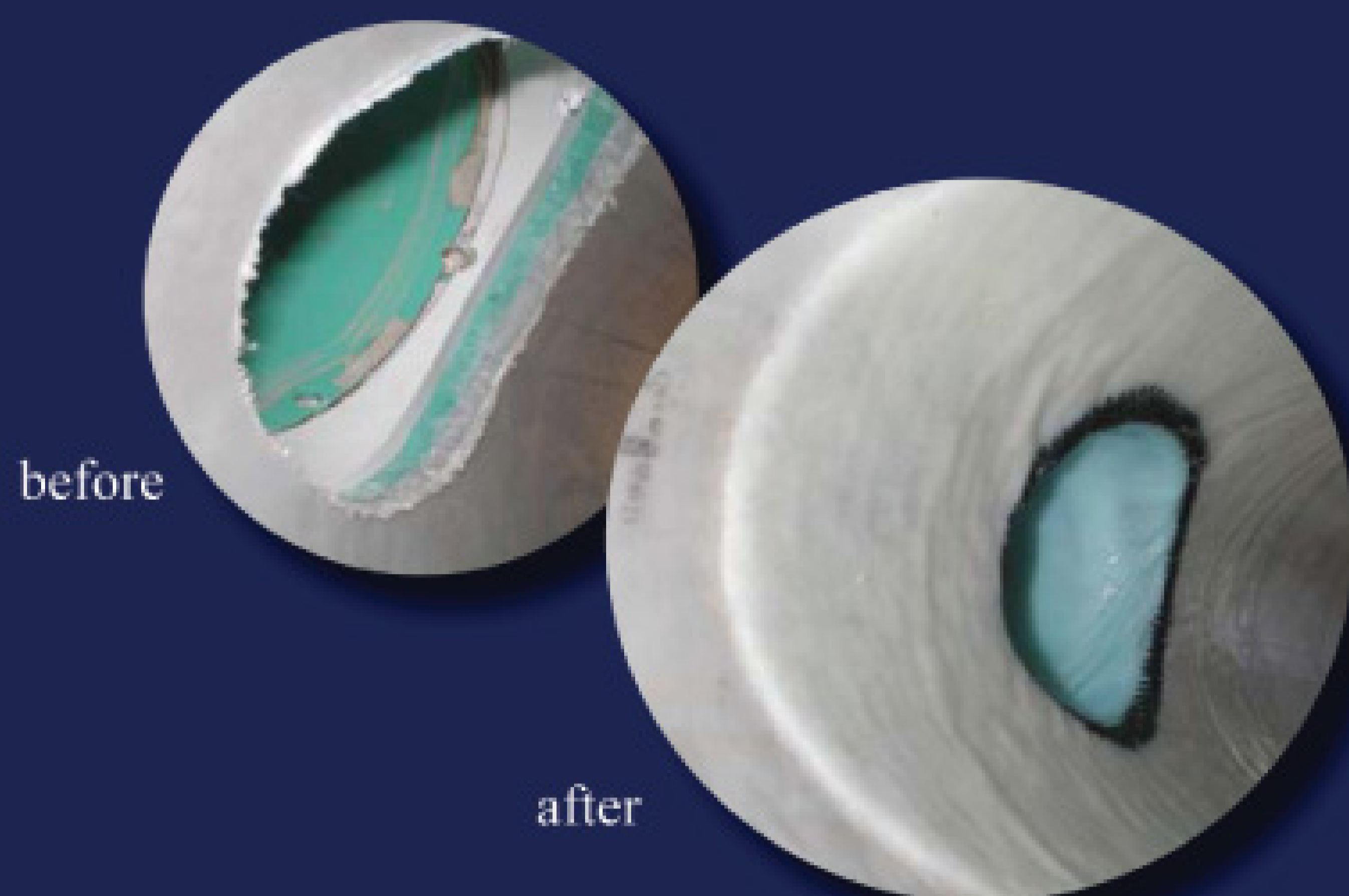
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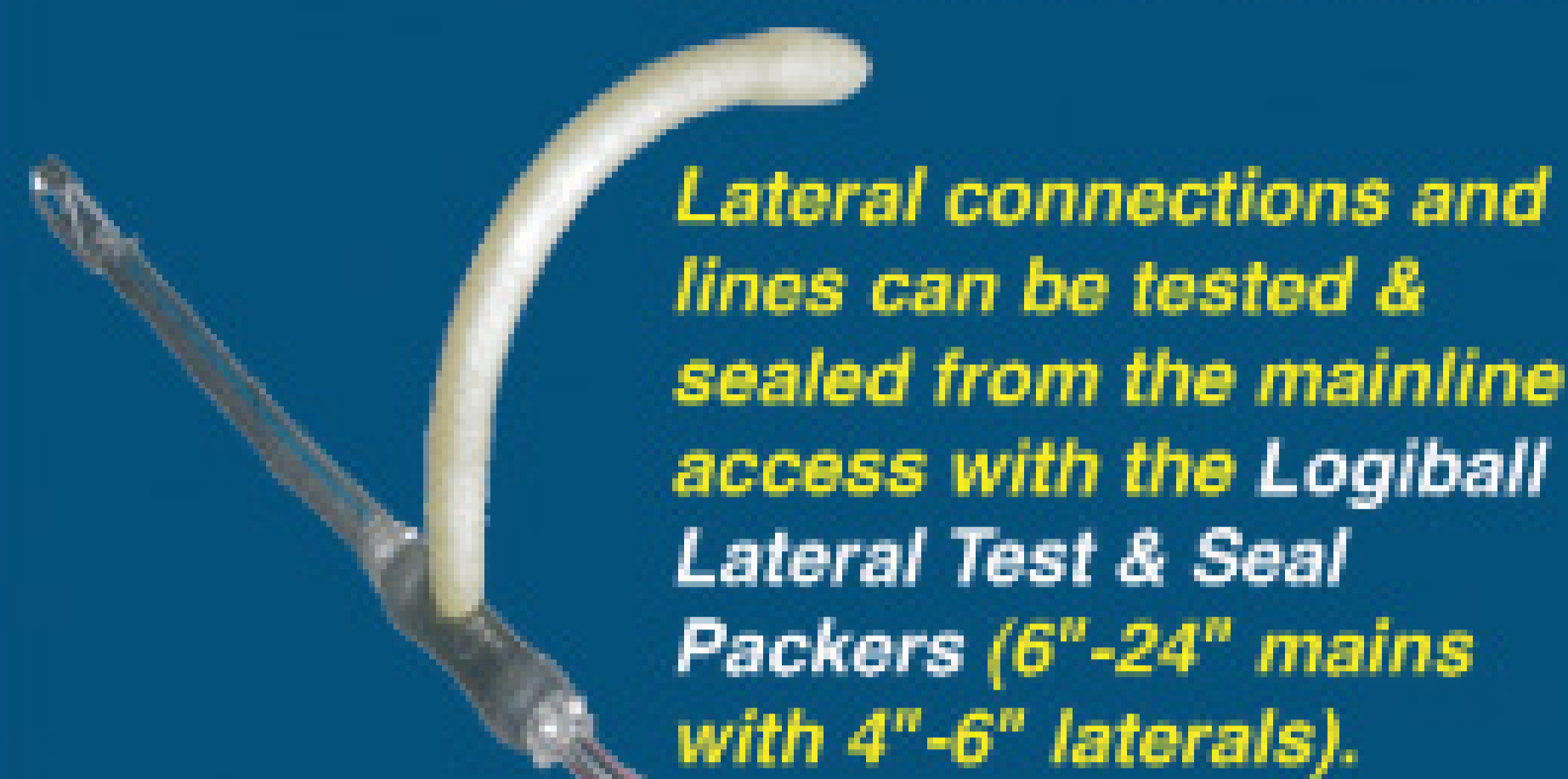
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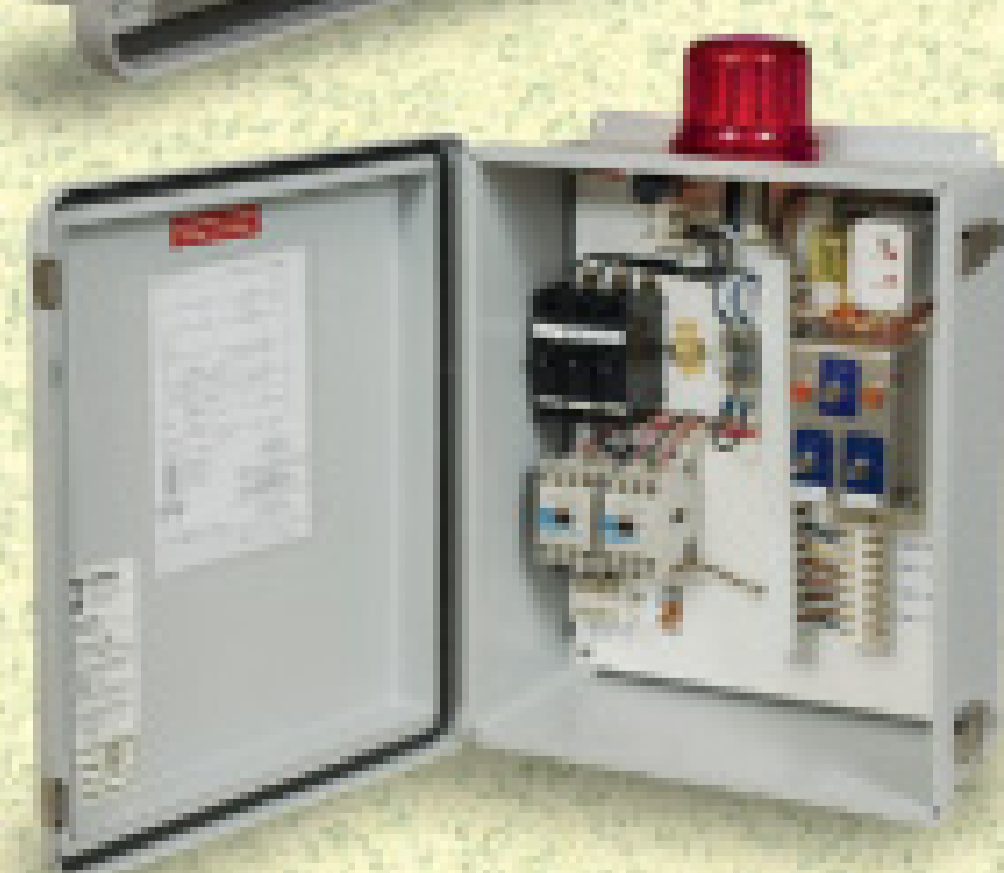
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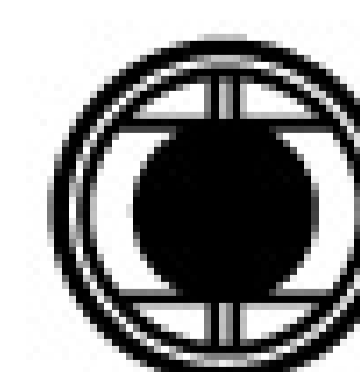


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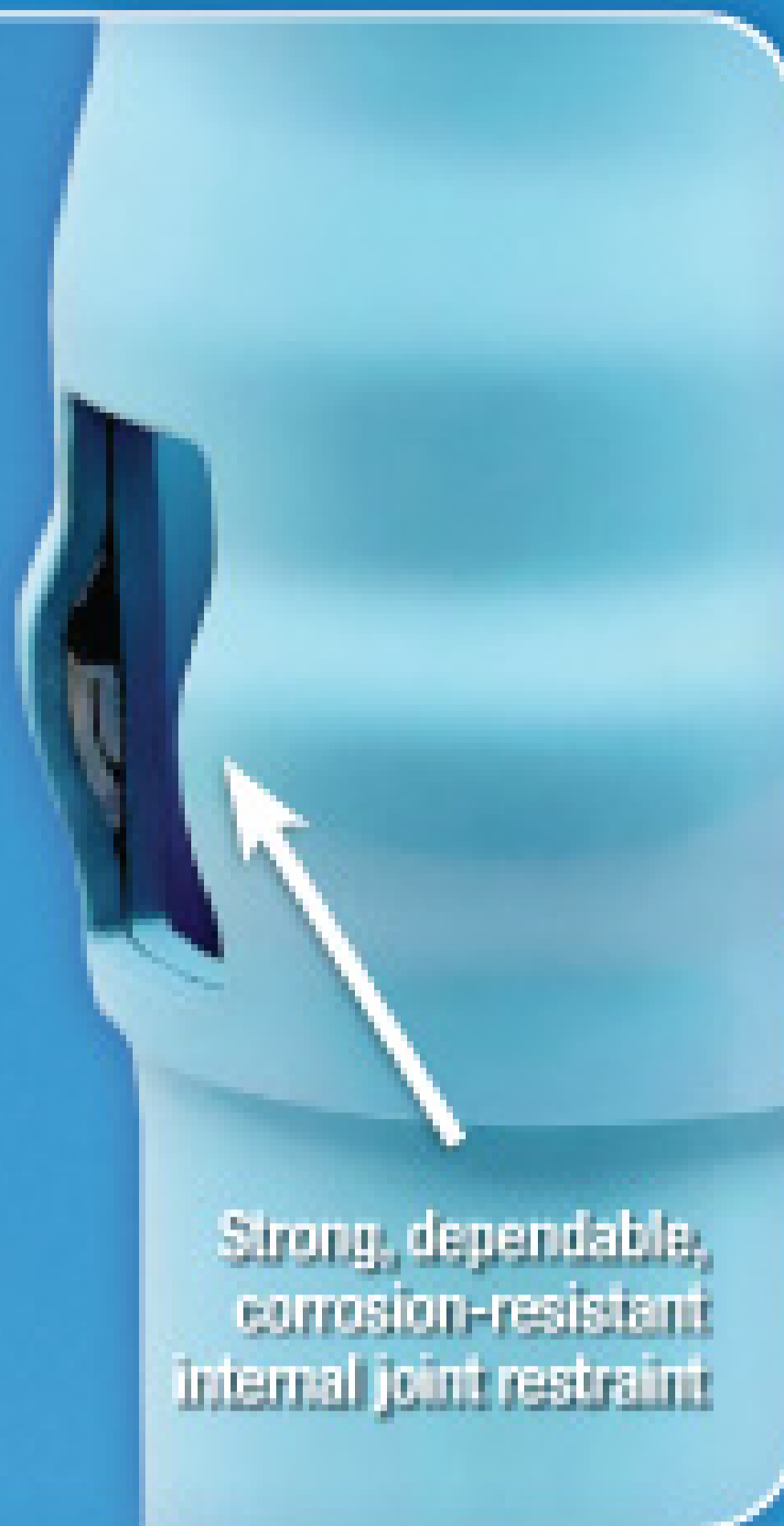
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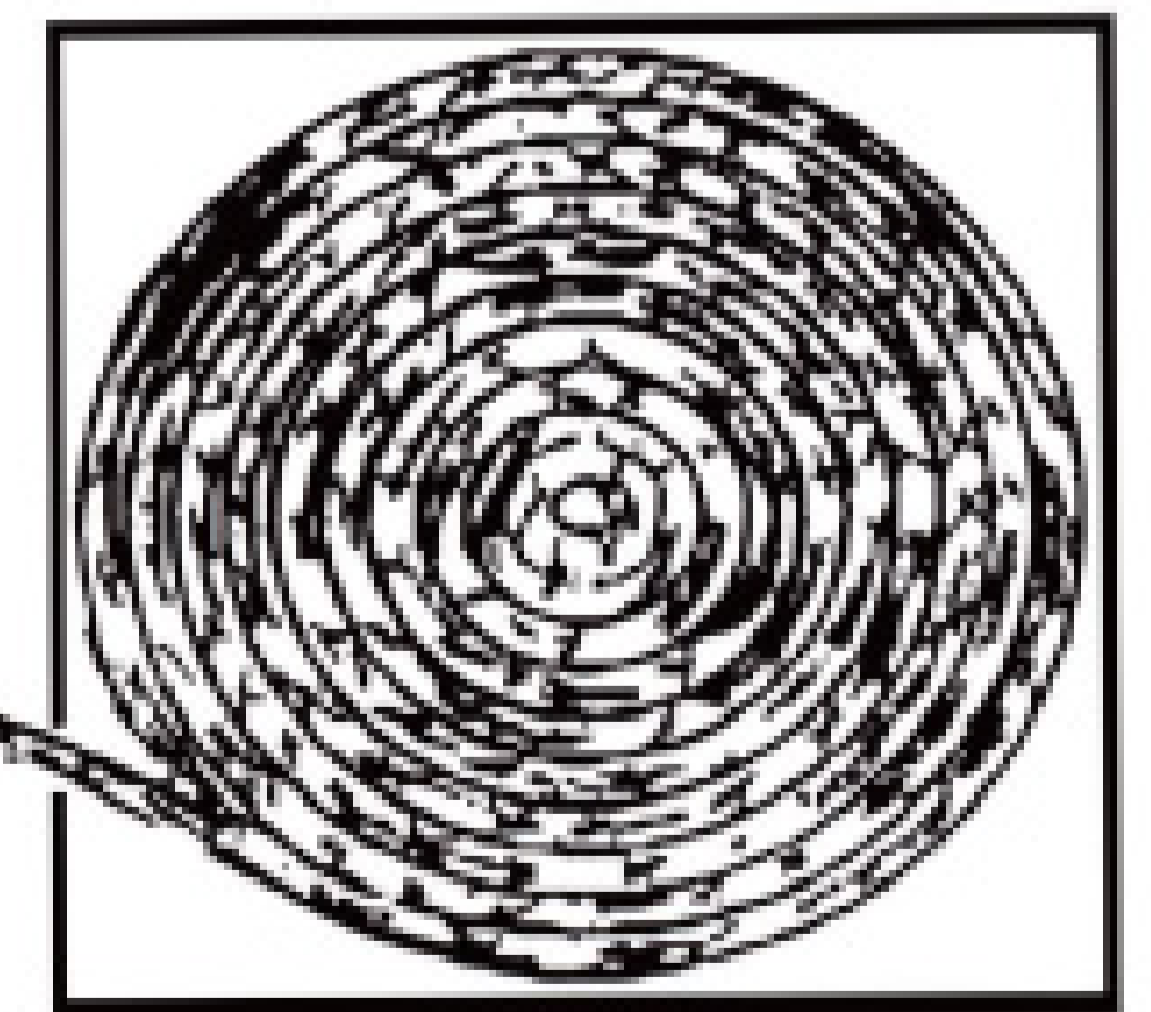
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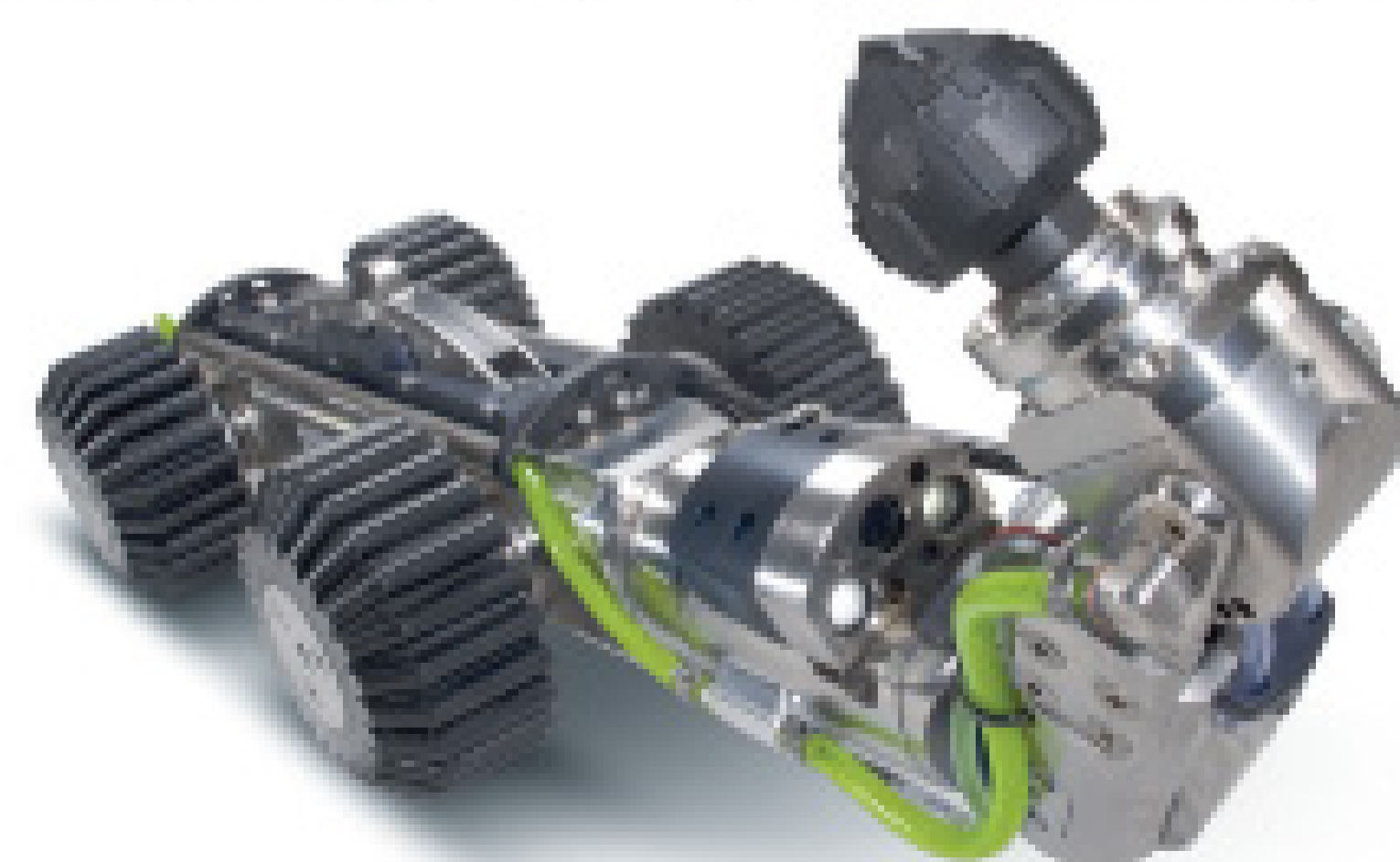


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BRINGING MATTERS TO A HEAD

The time must come soon for a serious debate on government spending, taxation and exactly the kind of society we wish to have and leave to our kids

State governments are running huge deficits. The federal budget includes enormous spending increases and deficits of unprecedented size. Social Security and Medicare appear unsustainable as currently structured.

Local school districts (at least where I live) face revenue caps that are forcing them to cut people and programs. Cities, towns and villages are seeing state-shared revenue payments cut and in turn have to reduce their budgets.

Where does it end? And in the long run, what does it mean for our society? I know I'm going to hear from my penpals — the usual suspects who call me an idiot and worse — when I say this, but part of the root cause of these problems is our assumption that "you can't raise taxes."

I don't mean to say that the answer to every budget shortfall is more taxation. I simply suggest that we do damage when we take that option off the table completely, or when we only raise revenue in sneaky ways, such as through user fees and "sin taxes."

(A lobbyist once described Congress' typical approach to taxing this way: "Don't tax you, don't tax me. Tax that fellow behind the tree.")

Parting company

Maybe critics were right some years ago, probably going back to Ronald Reagan, when they said taxes were "too high." Fiscal conservatism is (I believe) a virtue. But in the end, that claim has done damage in two ways.

First, it has created a downward spiral in support for vital services and assets. If it's axiomatic that taxes are "too high," then they can be cut but never raised. And yet things don't stop costing money, and inflation doesn't vanish on command. So we start to see the slow erosion of our school systems and our critical public infrastructure.

Second, it allows the two sides of the taxing and spending equation — what we pay and what we get — to part company. And that in turn enables us to engage in fantasy. The previous president said the war in Iraq was absolutely necessary to our nation's safety. So we went to war,

but since the thought of funding that war by raising taxes was anathema, we did it on the credit card, to the tune of almost a trillion dollars.

The current president says the economy needs a huge federal government stimulus. But since "you can't raise taxes" in a recession, we're doing it with borrowed dollars, again almost a trillion. Doesn't someone, sometime, have to pay for it all?

Gift of the recession?

The recession seems to be bringing all this to a head. At the federal level, concern is growing that the deficit will soon be completely out of hand. In the states, budget shortfalls are extreme.

In Wisconsin where I live, as of midyear, the state government was projected to be some \$6.5 billion in the red over the next two years. I'm

sorry, but it's pretty difficult to find \$6.5 billion worth of "fraud, waste and corruption" to cut out of a state budget. When you try to deal with a shortfall that size just by cutting, then people, services and quality of life suffer.

The problem then trickles down to local governments. The state tries to save by cutting aid to schools and communities, and now those entities have holes in their budgets. Because there is very little "fat" in local budgets, services have to be curtailed and people laid off (because "you can't raise property taxes").

Where all this inevitably must lead is to a discussion on all levels of exactly what we want from our governments, and how much we are willing to pay for it. Don't argue that taxes are "too high" unless you're prepared to say specifically what money should not be spent. And don't argue for a new public program unless you're prepared to accept the cost of it, starting with next year's tax bill.

It's a hard debate. It's a messy one. It's also essential. We can't go on with a borrow-and-spend government, and we can't go on simply whittling away at our public services just because some people scream that we "can't raise taxes."



FROM THE EDITOR

Ted J. Rulseh

How much is too much?

One of my critics once pressed me to answer this question: "At what point — at what percentage of income — do you think taxes are too high?" I couldn't give him an answer because I had to look at both sides of the equation: How what we pay squares with the services and benefits we receive.

What kind of society do we want to live in? What kind of society do we want to leave to our kids? Only when we answer those questions can we decide what level of government service is appropriate, and what level of taxation is acceptable.

Consider Norway. Encarta encyclopedia states that Norwegians "pay about half their income directly or indirectly to the government," putting them among the highest-taxed of all Europeans.

Don't argue that taxes are "too high" unless you're prepared to say specifically what money should not be spent. And don't argue for a new public program unless you're prepared to accept the cost of it, starting with next year's tax bill.

In return, they have an extensive social welfare system with, among other things, government-financed healthcare, a generous national pension program, free day care for children of working mothers, and free higher education. Considering those and many more benefits, plus basic government services, are taxes "too high"?

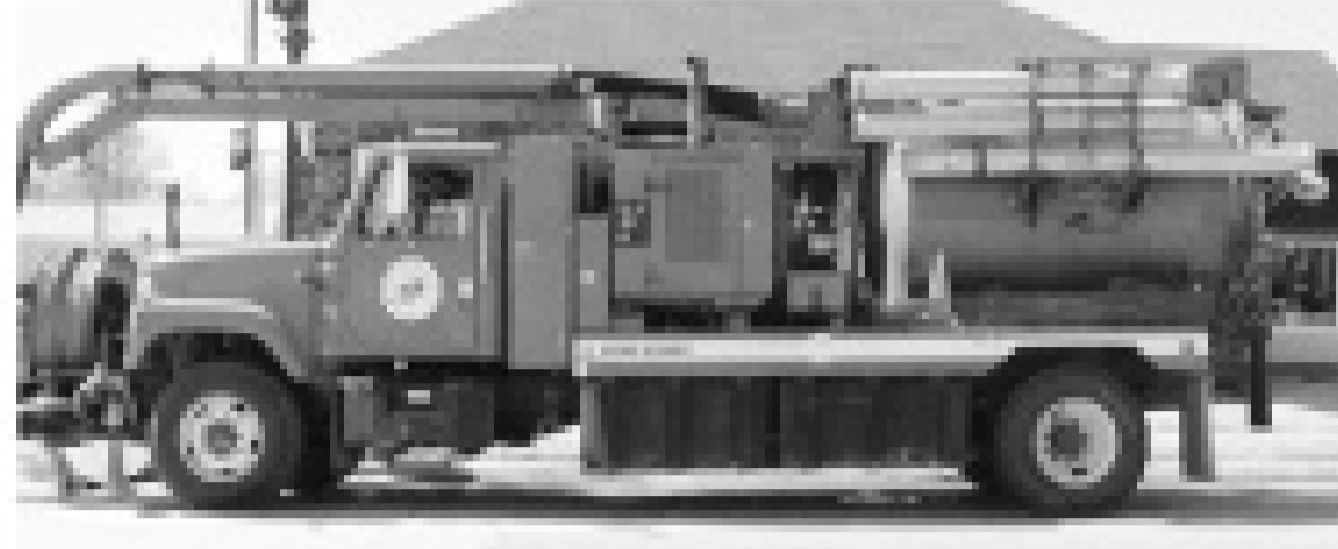
Actually, many Norwegians think so, but thus far, that is the social contract their country has chosen. If they lower taxes, just what benefits are they prepared to give up? That would be an interesting debate to hear.

I am by no means suggesting that the United States should be more like Norway. I am merely asserting that there are two sides to the taxing and spending coin. We need to look at both and find a way to balance what we want with what we're willing to pay. The mere insistence that "taxes are too high" is an empty rant, indeed. It is also destructive to our collective efforts to create and sustain the society we want. ♦



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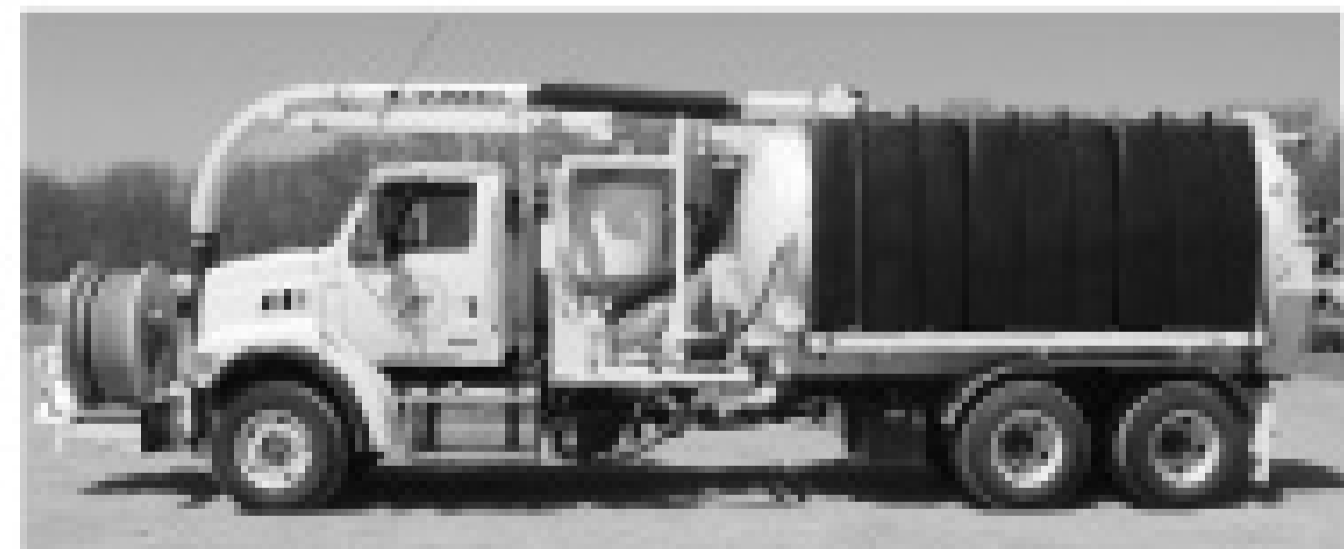
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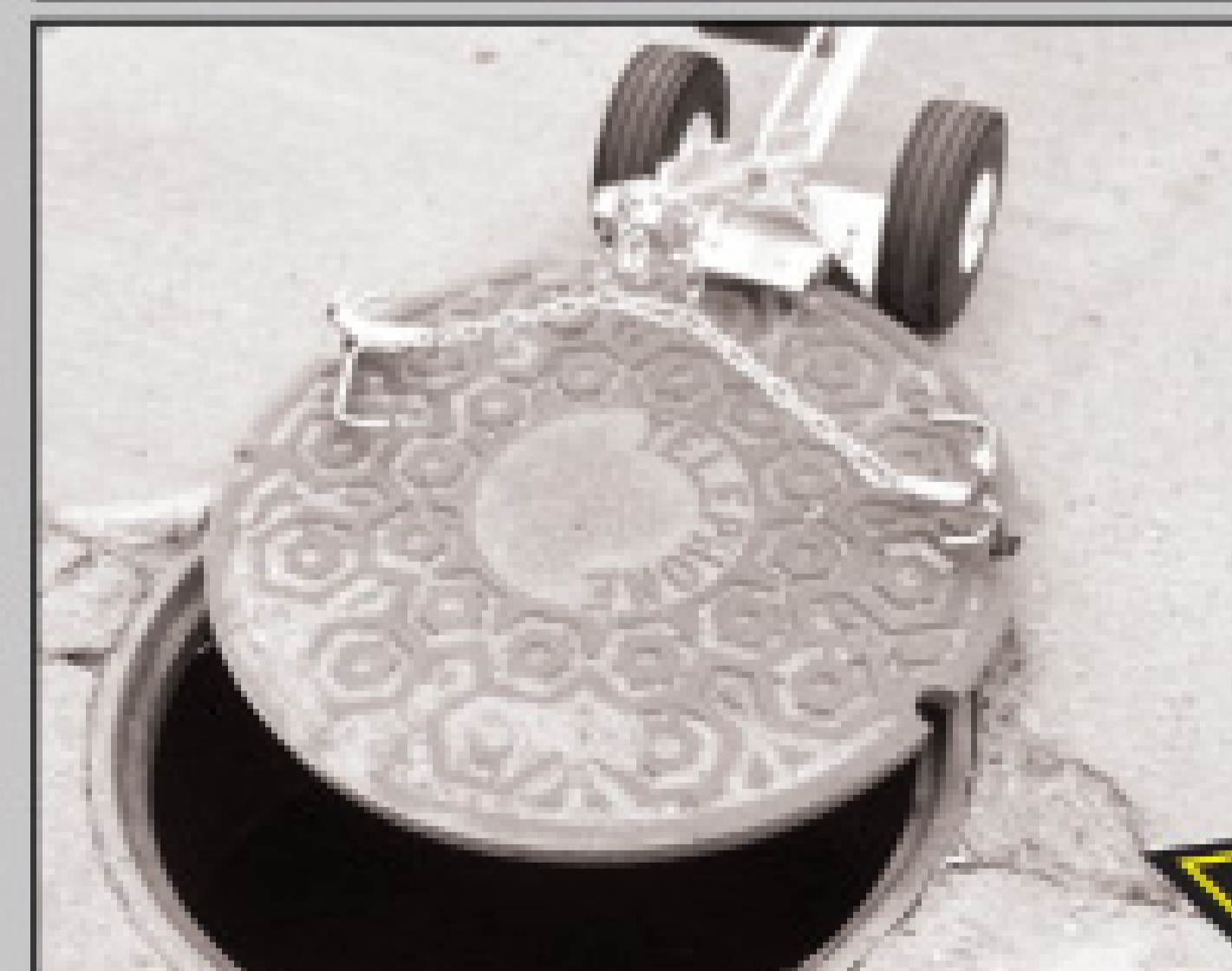


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THE RIGHT BATTLES

The historic City of Alexandria, Va., effectively uses outside resources with a “manageable chunks” approach to reduce I&I and rehabilitate aging infrastructure

By Suzan Marie Chin

Since 2006, the City of Alexandria, Va., has been aggressively rehabilitating its sanitary sewers to address infiltration and inflow. With the bar set high at bringing wet-weather peaks from 10 times to just two times dry-weather peaks, the job has been challenging.

But with the help of consulting engineers for data analysis and project criteria development, and with outside contractors handling specific tasks like video inspection and trenchless repair, the city is well on the way to meeting its goals.

Serving a population of 130,000, the city’s sewer system covers 15.2 square miles and includes 220 miles of sanitary sewer and 11 miles of combined sewers. With some sections of the system dating back to the 1800s, age has taken a toll on the pipes, mostly VCP and concrete. Root intrusion and just plain growth have had impacts, as well.

“We’re a very tree-friendly city as well as being a very dense urban area,” says Suzanne Salva, civil engineer III in the Transportation and Environmental Services Department, Engineering Division. “Root intrusion, coupled with lots of taps per linear foot on our mains, and the overall age of our system, contributed to the high incidence of I&I issues we were facing and looking to eliminate.”

Knowing the limits

Having limited personnel available to conduct studies and determine the best plan of action, the city enlisted the Greenley & Hansen consulting engineering firm in Richmond to evaluate three critical watersheds known to have the highest I&I: Four Mile Run, Commonwealth and Taylor Run.

The city collected pipeline survey data in those areas from 2000 to 2008. In the beginning, city crews performed the CCTV inspec-



Carlos Satalan with AM-Liner East Inc., of Berryville, Va., enters a manhole to trim the excess liner. (Photography by Alan Lehman)

tion, but that soon changed. “We had one crew tasked with the I&I project as well as the regular duties of new construction inspection and emergencies or complaints,” says Salva. “After about six months, we realized we weren’t going to get far with our program, and we made the move to outsource the evaluation and cleaning.”

Another consideration was the age of the city’s CCTV equipment, which broke down frequently from the extra workload. “By hiring contractors to do the CCTV work, when their equipment breaks down, as part of the contract, they

PROFILE:

**City of Alexandria, Va.,
Transportation
and Environmental
Services Dept.**

EMPLOYEES:
15

CUSTOMERS SERVED:
130,000

AREA:
15.2 square miles

INFRASTRUCTURE:
220 miles of sanitary sewer;
11 miles of combined sewers

I&I PROGRAM COST:
\$12.09 million to date

WEB SITE:
www.alexandriava.gov/tes



GIS FOR BETTER BIDDING

When the City of Alexandria, Va., embarked on its infiltration and inflow program, the staff was just considering a GIS. Numerous projects and contracts were to become part of the overall program, but it was never envisioned that GIS might help.

A GIS system was not yet in place for the first two watersheds — Four Mile Run and Commonwealth — that were to be evaluated and rehabilitated as part of the I&I program. When the field evaluation began for the third watershed, Taylor Run, the city had just completed a GIS field inventory of its sanitary and storm sewer systems.

So, for the Taylor Run section, contractors were able to reference GIS data on all CCTV field evaluations. The data was kept in a separate spreadsheet format that could be linked to the GIS system. By having the data in one central electronic source, the city could easily generate bid documents for the rehabilitation work required for the Taylor Run watershed.

“Having a GIS to generate that bid package expedited our efforts and reduced preparation costs,” says Suzanne Salva, civil engineer III in the Transportation and Environmental Services Department, Engineering Division. “The generation of the bids for the two prior watersheds required hand drawings, AutoCAD renderings and other manual work from data that was on our Mylar hand-drawn maps. Having GIS data for our collection system has streamlined and improved our bid documentation process tremendously.”

are required to continue making progress,” Salva says. “They have more robust resources than we would for backup crews and spare equipment. We just didn’t have the funds available for the dedicated crew and an updated rig that were necessary for the project to move forward at the speed we needed.”

With the inspection contractors in place, all sewers and manholes in the three watersheds had

been inspected by summer of 2007. The data revealed that many lines in all of the areas needed to be rehabilitated.

The best approach

Greeley & Hansen also helped Alexandria determine the best form of trenchless technology for the rehabilitation. The engineers closely considered cured-in-place pipe (CIPP) lining, fold-and-form

Above: Eddie Murray, right, pulls the liner as Tim Thompson moves a funnel into position, with Lonzie Murphy watching at left. At right, Satalan cleans the video camera lens before inserting it into the sewer.

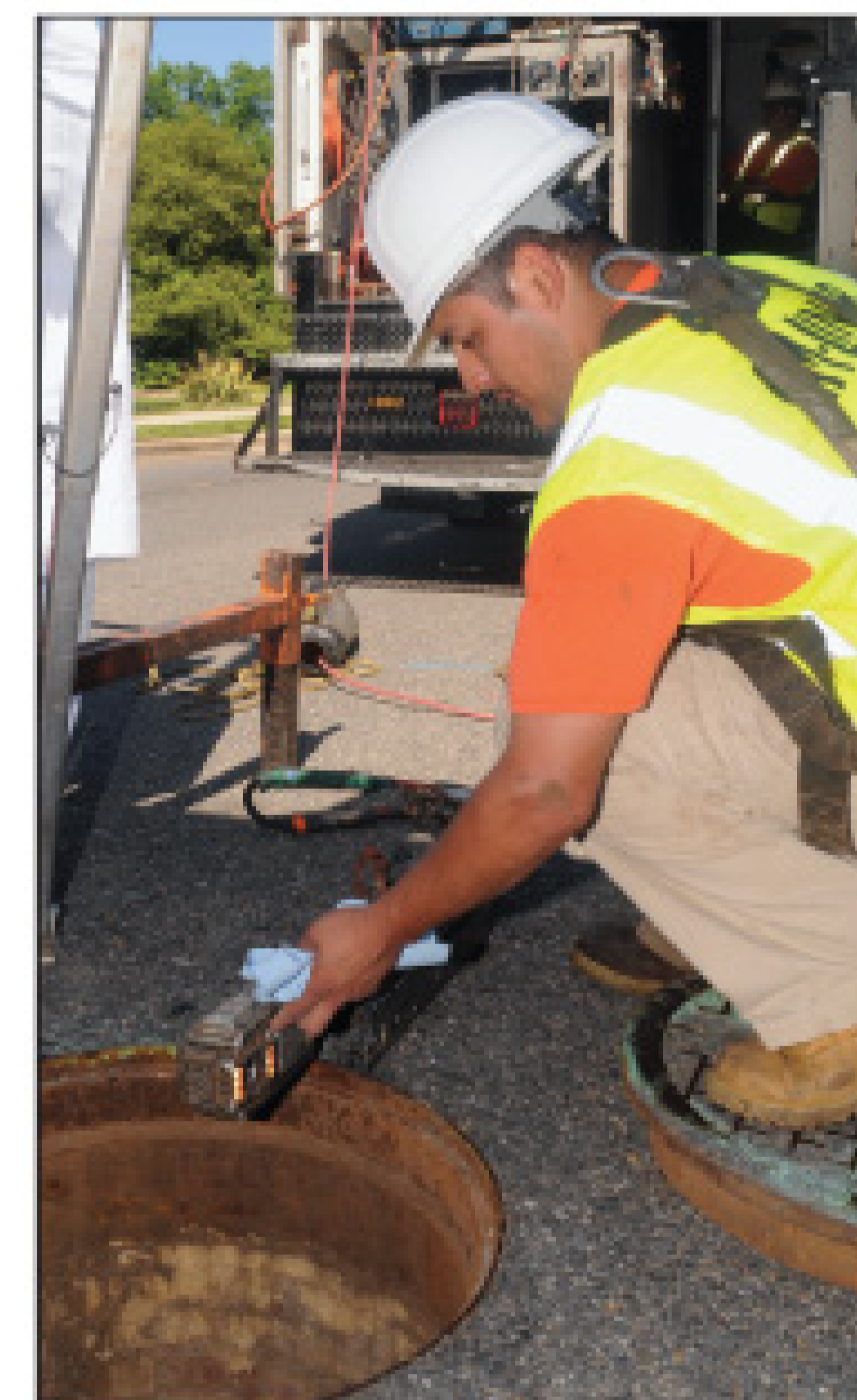
“We’re a very tree-friendly city as well as being a very dense urban area. Root intrusion, coupled with lots of taps per linear foot on our mains, and the overall age of our system, contributed to the high incidence of I&I issues we were facing and looking to eliminate.”

Suzanne Salva

lining, sliplining and pipe bursting.

Because of the city’s dense population, a key issue was the number of taps per linear foot on the mains. Based on that and other criteria, the engineers performed a matrix comparison of the technologies. “The rehabilitation method had to have a simple way of reinstating the taps quickly, so CIPP stood out for that reason as the best method for our situation,” says Salva.

Another factor was cost-effectiveness in view of the varied pipe



diameters in the system (mostly 8 to 12 inches). Some technologies were cost-prohibitive on smaller lines, others on larger lines. Overall disruption time to the community was also important, and that made factors like installation and curing times a major factor in decision-making.

In the end, the assessment for the three watersheds recommended rehabilitating 204,000 feet of mainlines using CIPP lining, making 518 dig-up point repairs, and repairing 2,122 manholes with a combination of methods.

The first contract, to rehabilitate the lines and manholes in the Four Mile Run area, began in 2004, using Insituform Technologies Inc. The following year's contract addressed the Commonwealth watershed, and the city chose AM-Liner East Inc. That company also won the contract for the final section, Taylor Run, where work began in fall of 2008 and is to be completed in spring 2010.

All of the contracts specified CIPP using a felt liner and resin system, cured with hot water or steam in the interest of shortening curing time. Most liner installations used steam, which offers the fastest cure. (The city looked at UV-cured CIPP lining for its even shorter curing times but decided to reserve that option for consideration on future projects.)

Manhole rehabilitation in all three watersheds used various technologies depending on the part of the structure affected. To stop infiltration from the manhole covers, contractors installed heavy plastic inserts. Chimney repairs used mechanical manhole seals from various vendors. "We selected this method for the chimney because it accommodates flexing of the structure near the surface while keeping it watertight," Salva relates.

For the balance of the barrel of the chimney, crews use a quick-setting grout for spot repairs of active leaks. Then, once the spot repairs are set, a calcium alumi-

large and lengthy as Alexandria's needs community support: It was critical to educate public officials and for funding to evaluate the sewer system's health and address I&I.

"We were very proactive, going to homeowner associations and other public venues for months and months, giving talks about the problems in our system," Salva says. "As a result of that public outreach, we were able to secure the funding to really move forward and create a very robust I&I program."

The results appear promising. An analysis of the Four Mile Run area, the first section fully rehabil-

ing plans to collect some long-range post-rehabilitation data."

To do that, the city plans to contract for installation of permanent flow metering devices through-

Right: Carlos Satalan is lowered down a manhole with a Lumberjack (NozzTeq Inc.), a high-speed, low torque multi-purpose cutter, to remove roots and tuberculation in the pipe before installing the liner. Below: Danny Santos operates the video camera remotely from the camera truck as it follows the Lumberjack through a 250-foot section of 10-inch sewer line under Seminary Road in Alexandria, Va.



"We were very proactive, going to homeowner associations and other public venues for months and months, giving talks about the problems in our system. As a result of that public outreach, we were able to secure the funding to really move forward and create a very robust I&I program."

Suzanne Salva

nate cementitious liner with additives for corrosion protection in mild hydrogen sulfide environments is applied over the rest of the barrel. For the Taylor Run project, an epoxy topcoat was added because the manholes there showed signs of more aggressive corrosion.

Community buy-in pays

Any rehabilitation project as

itated, showed an overall 33 percent decrease in I&I. An average of 17 to 64 percent reduction has been recorded within that area's sub-basins.

"We are trying to be very cautious about our apparent success," Salva says. "For us, the question is: Is it enough? We really don't have enough data to say we're absolutely meeting our criteria of two times dry-weather peaks, so we are mak-

ing out selected areas of the system. That project will go forward in cooperation with the Alexandria Sanitation Authority (ASA), which shares jurisdiction on some areas of the system. Some flow meters will be in trunk sewers that ASA maintains and operates.

Meter data will also help the city assess the necessity and feasibility of rehabilitating customers' sewer laterals, and of locating and remediating illicit sewer connections.

Steadily forward

Alexandria will continue its public outreach and get help from consulting engineers and contractors as it works to reduce I&I and improve the health of its underground infrastructure.

Looking back, Salva observes, "Knowing your limits, enlisting help when you need it, educating your community and public officials and finding ways to creatively work within your budgets — it's all critical to putting together the type of infrastructure rehabilitation programs needed to address aging infrastructure on a large scale." ♦

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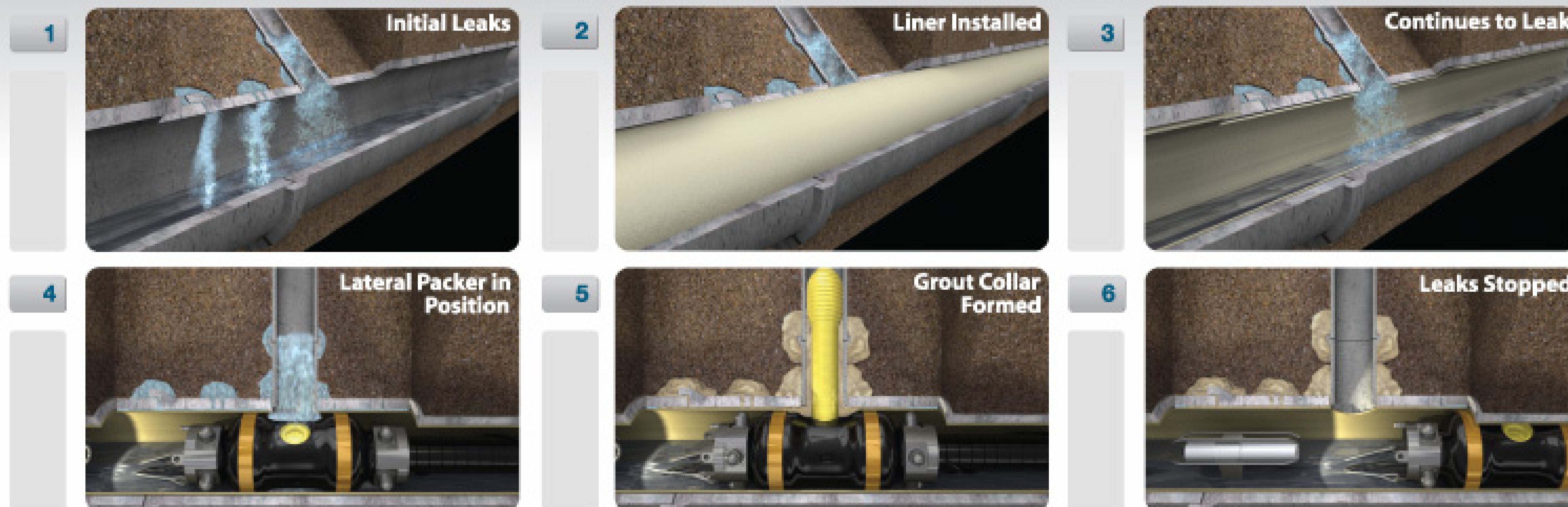
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THE HOLE SOLUTION

Manhole accessories include protective devices, magnetic and lever lid-lifting systems, and inflow-prevention seals

By Benjamin Wideman

Manholes are vital components of the wastewater infrastructure. In recent years, inventive manufacturers have developed accessories that improve on the basic structure and make working around manholes easier and safer. Here is a look at some of the more recent innovations.

Lid-Lifting System

The **Magnetic Manhole Cover Lift System** from **Industrial Magnetics Inc.** helps one person move and replace manhole lids quickly and safely, significantly reducing injuries and disabilities caused by traditional prying and lifting.

Two deep-reaching PowerLift rare earth magnets attached to a spreader bar and lift dolly allow one operator to lift and move covers up to 36 inches. Smaller covers with smooth-surfaced centers can be lifted by removing the spreader bar and using one magnet. A vehicle-mounted Manhole PowerArm has a 400-pound lift capacity. The user drives to within 3 feet of the center of the lid, and the PowerArm adjusts to the location with a 3-foot, 180-degree swing radius, double-jointed elbow that allows the positioning of the magnet in the center of the manhole cover. 888/582-0822; www.magnetics.com.



Accident Prevention Guard

The **Manhole Guard** helps prevent serious injuries that occur when a worker falls into an open manhole. The device creates an 8-inch rise above the road surface that serves as a clear visual aid and sturdy barrier to reduce personnel injuries, as well as prevent loss of tools down manholes.

This lightweight device is designed to be adaptable to various manhole applications. Options include a temporary lid, sewer hose guide, camera cable and grout cable roller guide, and LED light kit. 800/782-4134; www.manholeguard.com.



Power of a Lever

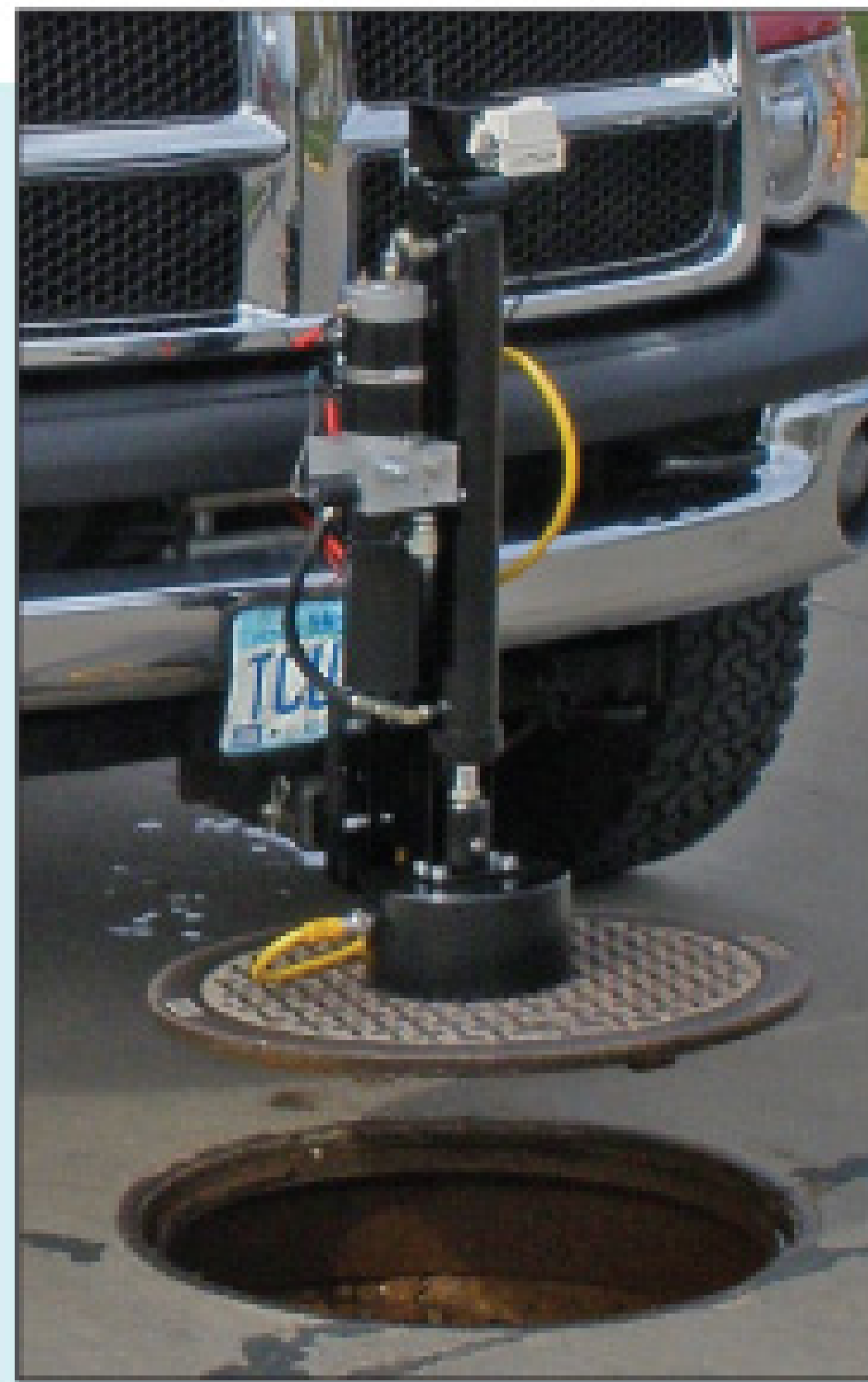
Bigs Easy Lift tools are simple, lightweight machines that let workers use the power of a lever to lift and remove manhole covers, grates and handhold covers. All lifting force is applied by pushing down on the handle, a motion that creates no back stress. The machine comes in three styles, each able to lift 500 pounds. The large, wheeled unit weighs 23 pounds, the small, wheeled unit weighs 17 pounds, and the tripod unit weighs 18 pounds. Attachments, including a 22-pound magnet that can lift 600 pounds, enable the tool to fit and lift any type of cover or grate. 866/926-5438; www.bigseasylift.com.



Vehicle-Mounted Lifter

The **LIFTER** by **Rock Mills Enterprises Inc.** is a truck-mounted magnetic manhole cover lifter that mounts into a 2-inch receiver on the front or back of a vehicle. The unit eliminates injury caused by manually removing manhole covers and storm grates and improves efficiency by allowing operators to remove the cover without exiting the vehicle.

Custom hydraulics enable lifting of any size cover. The powerful magnet adheres to almost any ferrous metal surface. A camera on the front of the device and a monitor inside the vehicle enable users to position the vehicle. The lift is activated with a handheld remote. 712/451-6550; www.rockmillsent.com.



Single motion

The **T Lift** from **Industrial Diversified Products Inc.** is a manhole cover lifting device that unseats, lifts and sets down a manhole cover in one smooth motion with no set up. When properly attached, this 7-pound device lets workers remove covers without bending, straining or prying and without touching the lid.

The tool also cleans inside the ring for proper resealing. It can be used to lift manhole covers measuring 19 to 26 inches from pick hole to pick hole. An adjustable pin expands that range from 19 to 32 inches. To remove a cover, the worker places the carriage hook in a pick hole, then slides the shaft across the lid to grab the other pick hole with the scraping hook. Once the carriage is locked on the roll pin, the user lifts the lid. 251/626-9143; www.tlifts.com. ♦



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Manhole Safety Ramps by **American Highway Products Ltd.** protect motorists from exposed utilities on road construction projects. Made of durable, 100 percent recycled rubber, the ramps can be used repeatedly, year after year.

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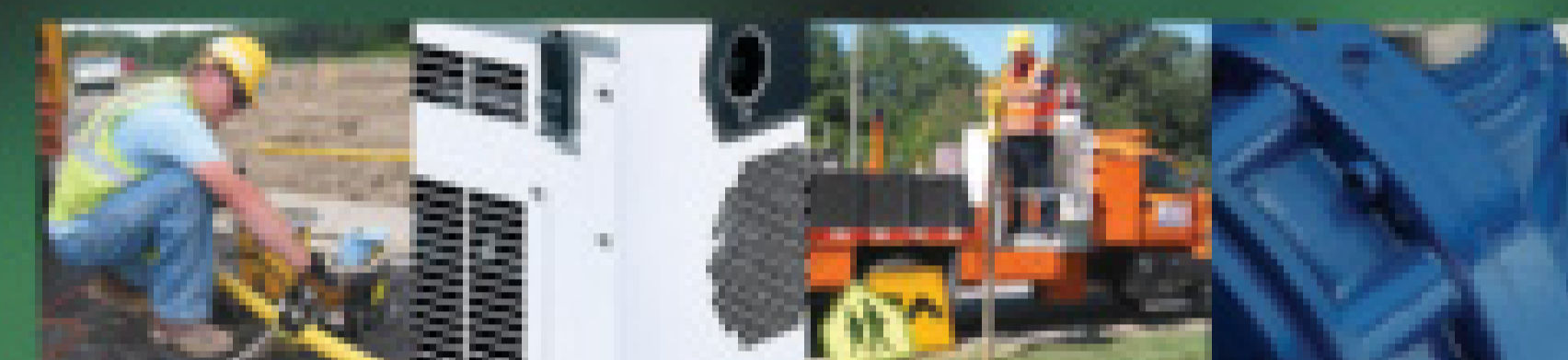
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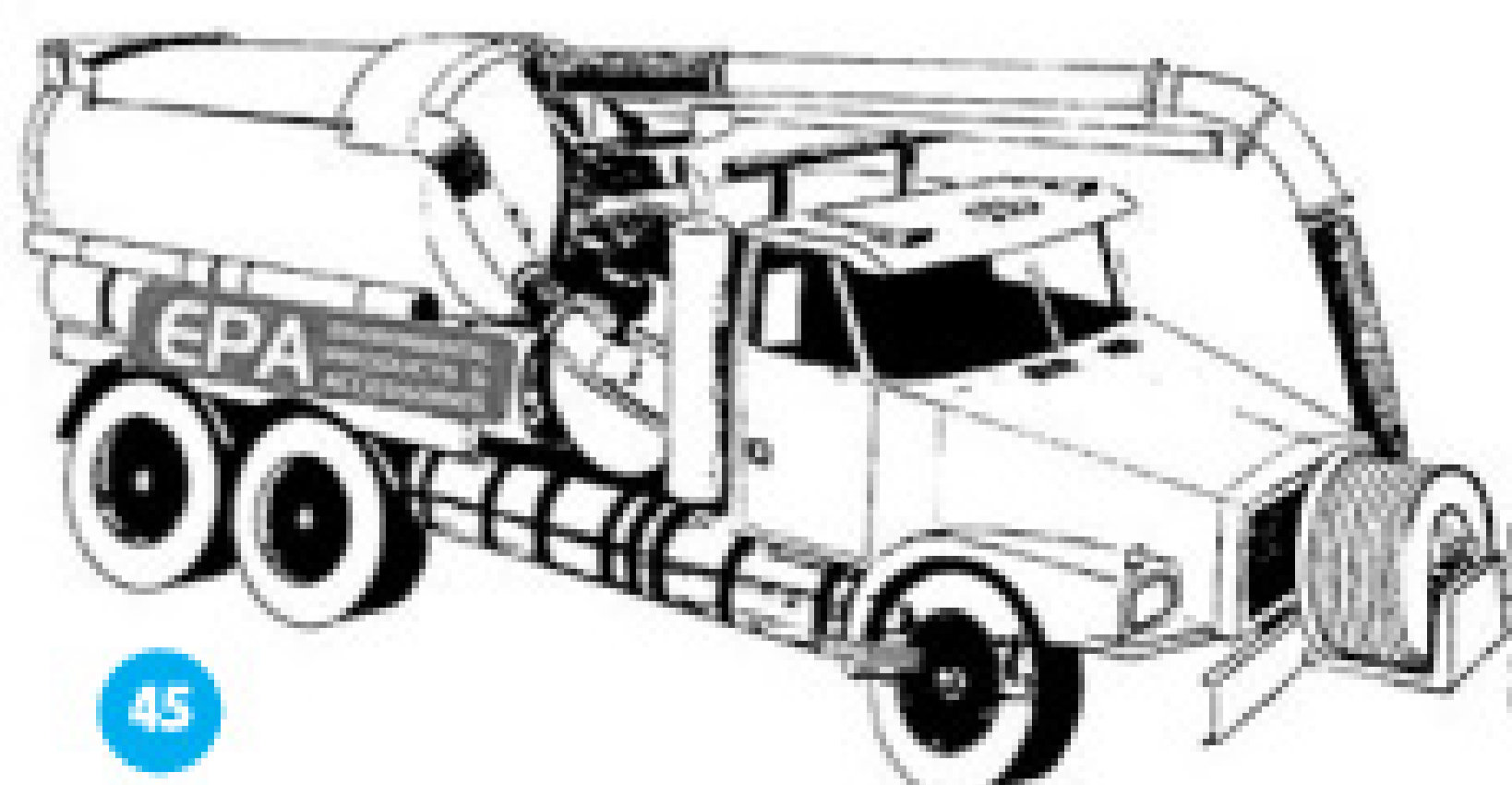
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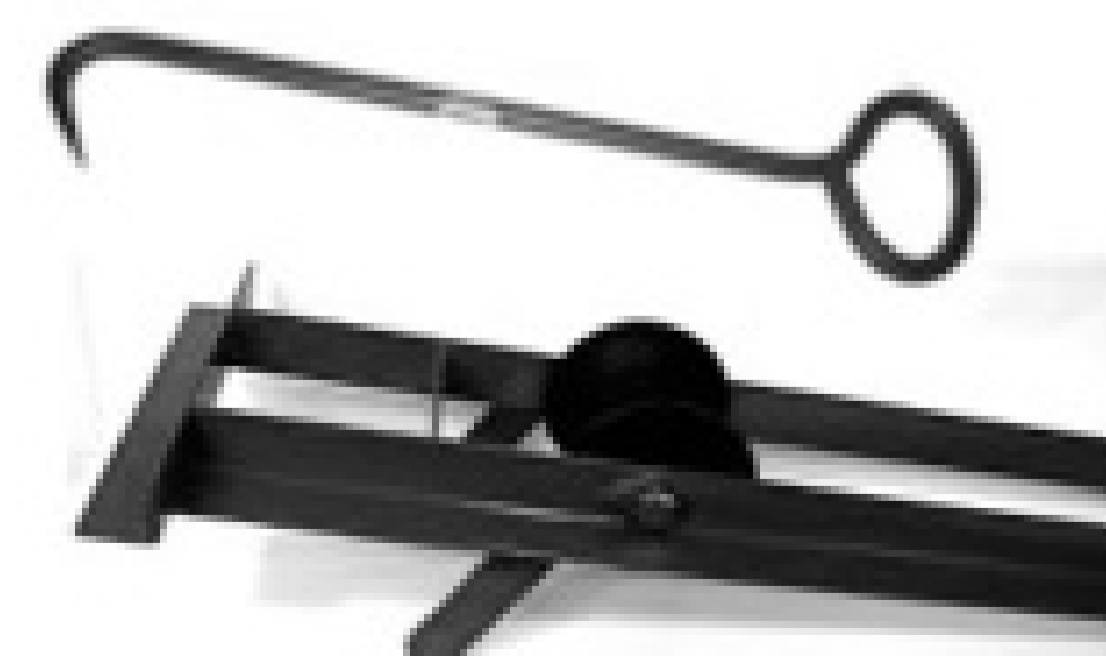
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The powerful J-3055 has the thrust to pull the hose down long runs, the pressure to cut through tough stoppages, and the flow to flush them away.

- 3000 psi, 5.5 gpm pump and 16 hp Briggs and Stratton Vanguard® engine with electric start.
- Removable 300 ft. hose reel mounted on a heavy-duty frame with four pneumatic tires.



Call 800-245-6200 or visit www.drainbrain.com.

J-2900 Gas Jet

Big machine features at a bargain price.

An economical alternative to the larger gas jets, the J-2900 is lighter and more maneuverable yet maintains the same pressure and flowrate as other jets in its class.

- 13 hp Honda® engine connected directly to a 3000 psi, 4 gpm triplex pump with Vibra-pulse® on demand.
- 200 ft. capacity hose reel with reel brake mounted on a heavy-duty frame with two pneumatic tires.



Call 800-245-6200 or visit www.drainbrain.com.

J-1450 Electric Jet

Compact! Portable! Powerful!



This compact easy-to-use jet generates 1500 psi at 1.7 gallons per minute, yet 1-1/2 hp motor pulls only 13 amps.

- Clears grease, sand and ice from 1-1/2" to 4" lines up to 150 ft.
- Removable hose reel reduces height from 32" to just 14-1/2".
- Telescoping handle and wheels make it easy to roll to and from the job.

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J-CSN Chain Saw Nozzle

New root cutting nozzle

Rip through roots with General's new Chain Saw Nozzle. Lengths of chain can quickly and easily be switched for different diameter pipes. Spins at up to 10,000 RPM.

- 1/2" nozzle works well in combination with the 12 gpm Typhoon trailer jet to clear 4", 6", 8", and 10" lines.
- 3/8" nozzle is available in 4, 5.5 and 8 gpm models to clear 2", 4", 6", and 8" lines.



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Take Clogged Drains by Storm



General's water jetters give you the power, flow, and toughness you need.

The J-2512 Typhoon trailer jet blows away blockages in big lines and long runs. 12 gallons a minute storm down the line at a powerful 2500 psi to blast lines clear of grease, sediment and debris. A 200-gallon holding tank carries enough water to handle remote applications where access to water is limited.

The Typhoon features a 24 hp Honda engine, 400 ft. jet hose reel and 150 ft. supply hose reel mounted at the rear of the unit, and a lockable tool box with engine controls mounted inside. Standard equipment includes electric brakes, safety strobe light, rear fold-down stabilizer jacks, retractable hose guide arm, and antifreeze system.



J-3055

With its 3000 psi, 5.5 gpm pump, the J-3055 has the thrust to pull the hose down long runs, the pressure to cut through tough grease deposits and the flow to flush them away. In fact, the J-3055 has the highest flow rate available without requiring a holding tank.

The J-2900 is light, maneuverable, and delivers a strong performance at a very reasonable price. This compact, rugged unit delivers 3000 psi at 4 gpm. All General's jets have Vibra-pulse® on-demand to help slide the nozzle around tight bends and propel the hose down longer lines.



J-2900

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Debris Catcher

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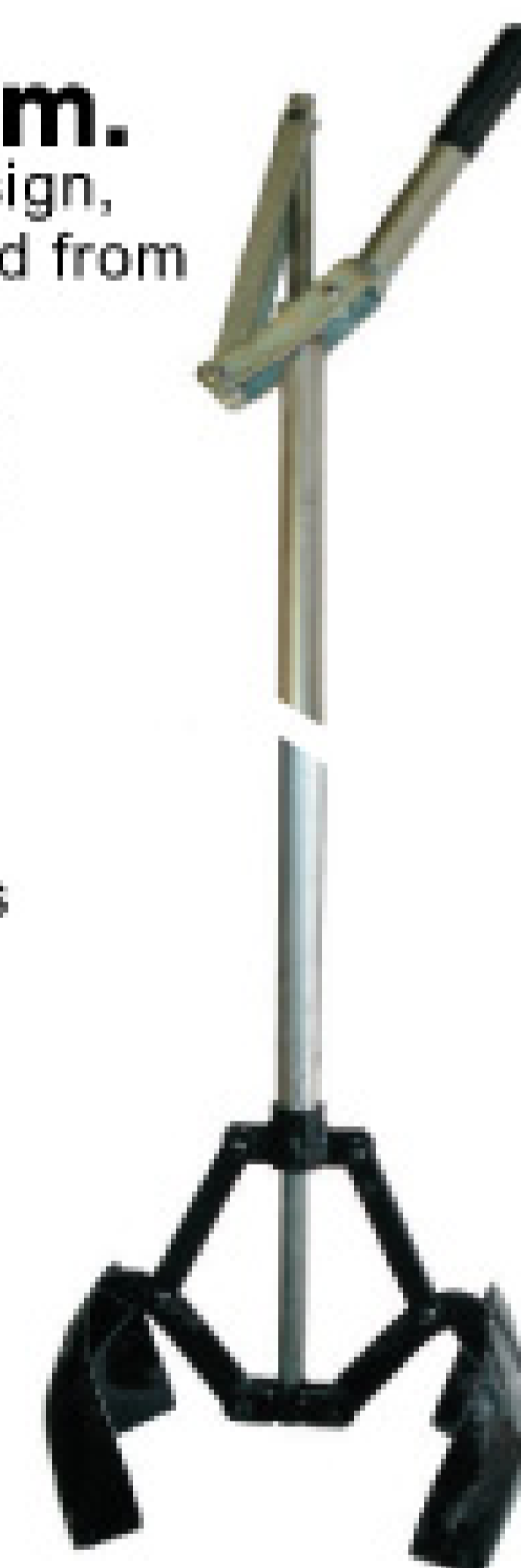
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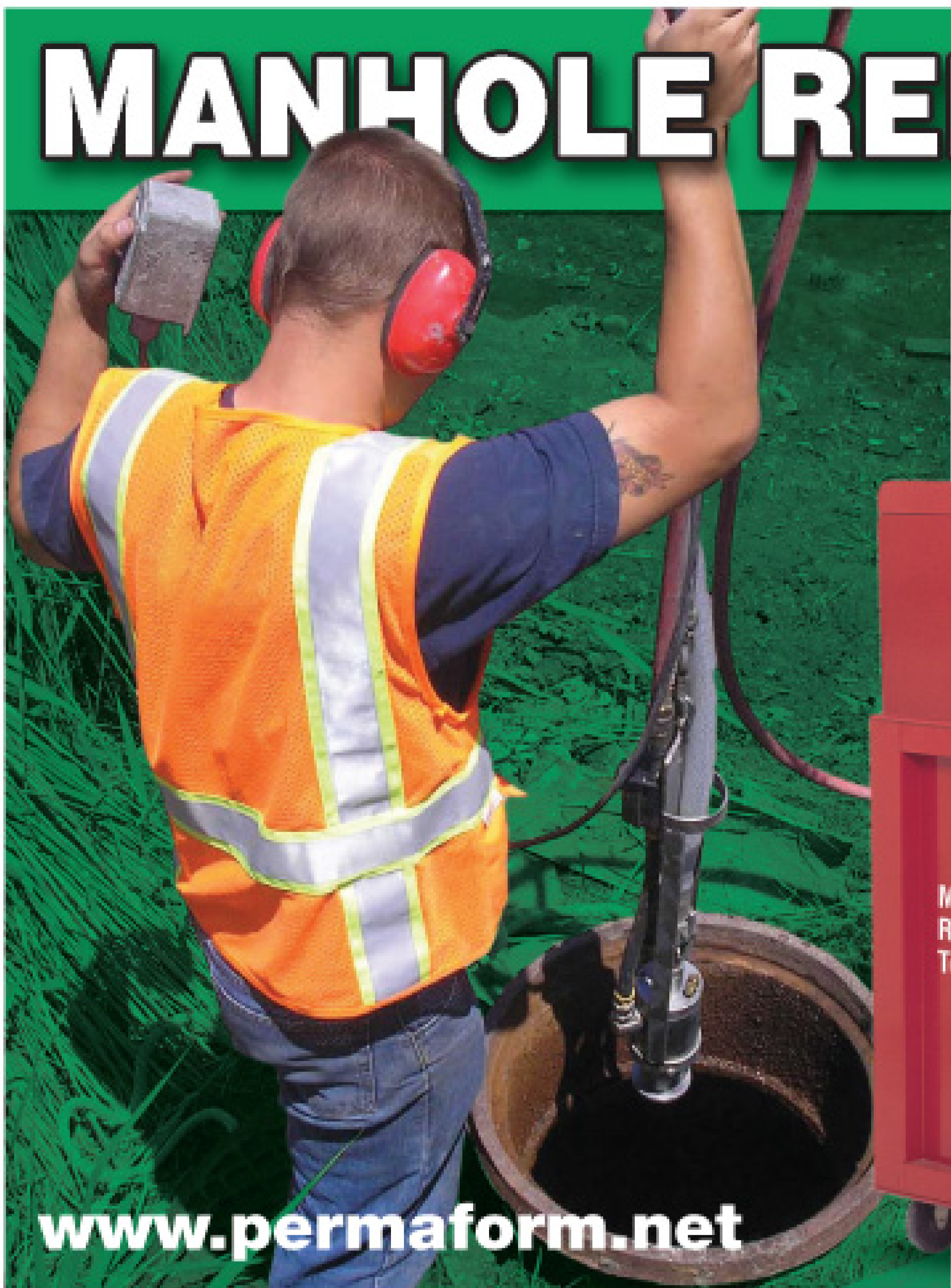
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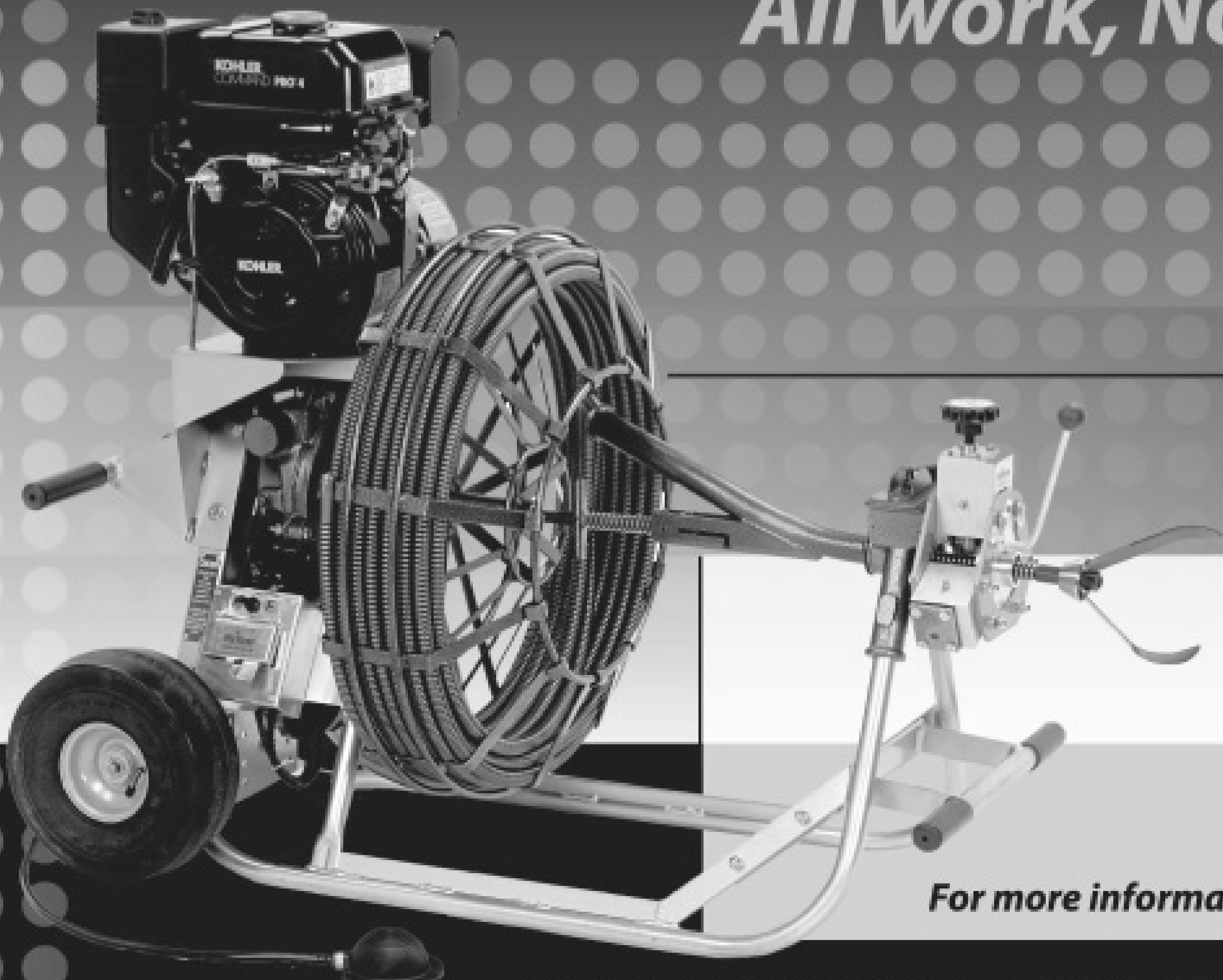
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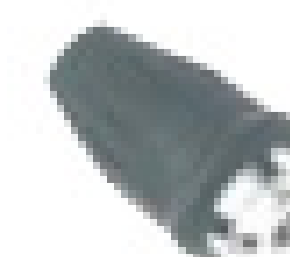
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FROM MAINS TO MANHOLES

A comprehensive cleaning, inspection and rehabilitation program helps a small Michigan community control severe I&I problems

By Mary Shafer

Positioned between Lansing and Saginaw in central Michigan, Corunna was a small town with big problems. For more than 30 years, its sewer system was burdened by stormwater, infiltration and illicit connections. By 2003, something had to give.

Flows exceeding 110 percent of contract capacity at the Owosso Mid-Shiawassee County Wastewater Treatment Plant had contributed

to peak flows of 15 times the daily average. During wet-weather events, more than half this flow came from inflow and infiltration. Sanitary sewer overflows and residential backups occurred.

As one of four municipalities contributing just over 9 percent of the plant's flows, Corunna was placed under a building moratorium. "For years, we weren't allowed to extend sewer infrastructure," recalls city manager Joe Sawyer. "We have industrial and retail

acreage, but we're only about half-way built out."

City council members understood that the collection system problems were a serious impediment to growth. Finally, a state administrative consent order demanded that Corunna address the I&I issue. Director of public works Tim Crawford knew that inaccurate flow reporting accounted for some of the extreme flows figures, but he was sure the aging sewers needed serious repair.

In the end, the city attacked its problem with a thorough system inspection and evaluation, followed by a rehabilitation program that covered sewer mains and manholes and will soon extend to sewer laterals. Rehabilitation included cured-in-place lining for mains and various sealing, grouting and rebuilding methods for manholes.

To date, the program has reduced I&I by an estimated 20 to 30 percent and has enabled the city to lift its building moratorium.



Manhole rehabilitation and replacement was an important part of the City of Corunna's campaign against I&I. (Photos courtesy of City of Corunna)



PROFILE:
City of
Corunna, Mich.

CUSTOMERS:
850

AREA SERVED:
One square mile

EMPLOYEES:
6 full-time, 2 part-time

INFRASTRUCTURE:
18 miles of collector sewer,
1 mile of sewer force main,
300 manholes, 1 pump
station, 4 lift stations

ANNUAL BUDGET:
\$1.8 million general, \$650,000
wastewater collection

WEB SITE:
www.corunna-mi.gov



Above, Corunna's manhole rehabilitation project involved various sealing, grouting and rebuilding methods. At right, the city's sewer rehabilitation program included cured-in-place lining for mains. Insituform Technologies cleaned and inspected 30,967 feet of 6- to 18-inch mains before installing the CIPP liner.

"We assumed the only way we'd ever fix our system would be through conventional construction. We put a \$30 million price tag on that, which meant we couldn't even consider it. So the technology aspect of it, such as the lining program, is invaluable."

Joe Sawyer

Phasing in

At the outset, Crawford and Sawyer worked with Gary Arnold of C2AE, a Grand Rapids engineering firm. "We were careful about thinking ahead," Sawyer says. "We didn't have accurate maps, and we knew that was the priority from day one. All other decisions stemmed from what we found during the

inspection and evaluation."

Funding was the main challenge. "We assumed the only way we'd ever fix our system would be through conventional construction," Sawyer says. "We put a \$30 million price tag on that, which meant we couldn't even consider it. So the technology aspect of it, such as the lining program, is invaluable."

The team divided the work into four phases. Phase 1, investigation and evaluation, ran from October 2003 to December 2004 and included a complete inventory,



as well as cleaning and televising mains and laterals and all connections, lift stations and manholes. For this, the city won a \$157,500 Economic Development Fund (EDF) grant from the Michigan Economic Development Corporation (MEDC).

Phase 2, final cleaning and lining of the mains along with lateral service inspection and manhole rehabilitation, ran from November 2005 through October 2006 and cost \$1.1 million, all paid by the city.

Phase 3, from August to Nov-

ember 2007, included complete rebuilding of the Ferry Street Pump Station (\$750,000) and construction of a new interceptor sewer (\$613,500). Funding included a \$575,000 MEDC grant.

Phase 4 will consist of rehabilitating failing lateral connections and is still in the planning and engineering stage.

Facing challenges

Crawford and Sawyer knew that a key to the project's success was to get the decision makers onboard.

ABOVE-GRADE TECHNOLOGY PROMOTES UNDERGROUND EFFORTS

Corunna City Manager Joe Sawyer quickly recognized the value of the free publicity he could get for the city through online technology. Web sites, blogs, streaming video — all were fair game in creating support for infrastructure projects.

"We launched our Web site May 1, 2005," he says. "Originally, it was intended for the sewer department only. The city's site has grown around that."

He realized that posting photos of project progress was a pre-emptive strike against citizen complaints of traffic disruption and slow progress. "We did use it through the course of the I&I work," he says. "We even provide a 'Lighter Side' humorous section. Sometimes these humor pages bring people into our site."

Sawyer also edits complementary still photos and video into finished video, which he posts on YouTube. "I edited sewer footage to create a fun but

educational video about what the sewer department is doing," he says. "We play it at city dinners and other events, like for Kiwanis clubs."

He uploaded the video in segments to YouTube and monitored their popularity. "We had more than 400 views within two weeks," he reports. "And my kids took them to school to show their classes. It's been fun."

Fun is just a byproduct of this online visibility campaign. "Every now and then when I put something new on the site, I'll send out mass emails to residents to let them know," Sawyer says. "We create this presence with the idea of attracting developers, as well. The press has been pretty good about covering us. Our YouTube videos just got covered, and we have bumper stickers and T-shirts."

Web work is done within a \$3,000 annual budget. Sawyer doesn't pay for outside consultants — he is the Webmaster. "In small towns," he says, "we wear a lot of hats!"

In late 2002, Crawford's crew did smoke testing on the sewer system and recruited city council members to walk along with them.

"They came out with clipboards and cameras, walking the streets and yards to find leaks," says Sawyer. "Involving them was invaluable for when we had to go ask for money. It was lots more effective than numbers on a spreadsheet."

The testing let everyone know there were significant deficiencies in many lines, and the project moved into planning for the televising stage. The city had inspected some mains 20 years earlier, but it wasn't a comprehensive survey, and the quality of the video was uneven.

"We wanted to have a vision of the future based on being proactive, so we knew our first priority was to find out what we had underground," Crawford says. "Our first project was to televise the sewer mains." The estimate cost \$125,000, but only \$90,000 had been budgeted. The Economic Development Fund grant ultimately covered the cost.

The winning bidder for Phase 1 work was DownUnder Municipal Services LLC of Kalamazoo, Mich. The resulting digital video was priceless in assessing the system and setting repair priorities.

"We found sagging, broken and clogged mains," Sawyer says. "We found a one-block section where groundwater was leaking into a main through abandoned laterals that hadn't been properly bulkheaded off. Eighty percent of our sewer mains were clay tile with a joint every 2 feet. There were lots of bad joints and crumbling grout. We found mains we didn't know we had, and discovered that some we thought we had didn't exist."

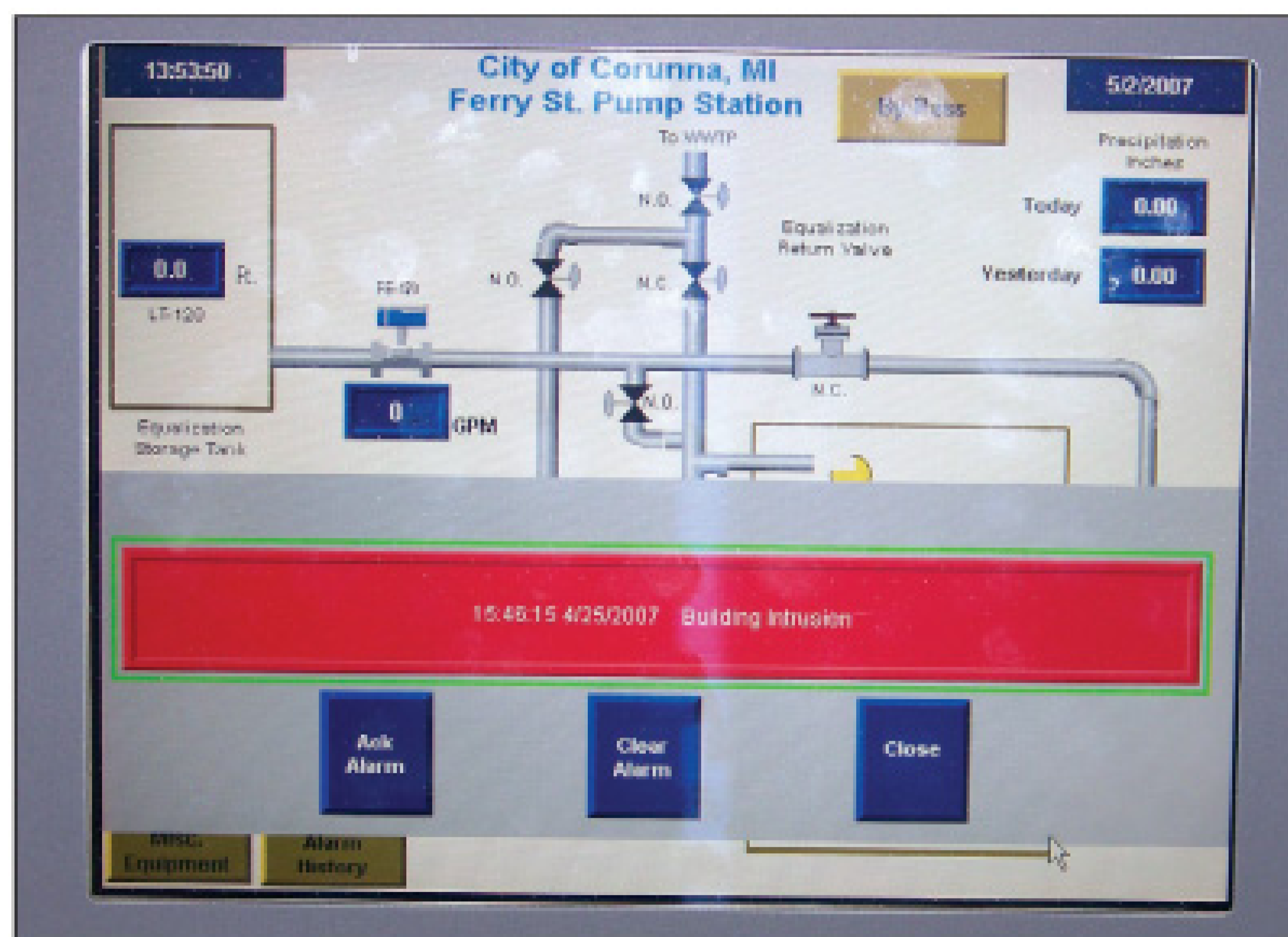
In planning for Phase 2, Sawyer and Crawford investigated rehabilitation technologies: conventional replacement, pipe bursting and cured-in-place pipe (CIPP) lining. In 2003, Crawford went to a trenchless technology show and saw a lining demonstration. Sawyer and Crawford also asked other communities what they were using.

Making the fixes

Insituform Technologies USA Inc. had done a small CIPP project for Corunna and came in as part of



Corunna replaced four manholes, grouted 45, and lined two. Another 24 were rehabilitated through adjustments such as raising to grade, replacement, or sealing chimneys. Replaced and new manholes received custom lids cast by East Jordan Iron Works and bearing the city's name.



The computerized Ferry Street Pump Station uses the RSView 32 monitoring package from Rockwell Automation. A laptop computer equipped with PC Anywhere software from Symantec turns pumps on and off remotely.

a competitive block grant bid on Phase 2. Crawford and Sawyer had expected to line about 4 miles of sewer main, but the bids allowed them to line 6 miles, a full one-third of the system.

"We have a few more segments that need to be done," says Sawyer. "We're talking with a few neighboring communities to see if we could get some economies of scale. Another third of our system is either in good condition or needs traditional work."

In the end, Insituform cleaned and inspected 30,967 feet of 6- to 18-inch mains and installed CIPP liners. The company also cleaned and inspected 440 service laterals, in the process finding many sewer mains with dead ends that had no manholes. "These are very difficult to clean, and you need a manhole to install Insitu-form lining," says Crawford. "So we installed about eight new manholes in those areas."

Meanwhile, Corunna removed and replaced four manholes, grouted

45, and lined two. Another 24 were rehabilitated through adjustments such as raising to grade, replacement, or sealing the chimney. Compeau Brothers Excavating of Rockford, Mich., exposed the structures using a small backhoe. Kim Construction of Steger, Ill., made traditional mortar repairs.

New lid assemblies cast by East Jordan Iron Works were installed. Replaced and new manholes received custom lids bearing the city's name. Since the city bought in bulk, the custom die came at no extra charge. Rebuilt manholes did not receive custom lids. The difference helps the city track which manholes have been rehabilitated. "The new lids are hard to steal, too," adds Crawford.

Lateral televising

Insituform crews televised laterals in areas where they had lined the mains, using a Lateral Evaluation Television System (LETS) camera from Aries Industries Inc., which can travel 1,500 feet down a main line and send a tractor-mounted launch unit 150 feet up the lateral.

To televise laterals in other areas, Terra Contracting, a division of DownUnder Municipal Services, used explosion-proof CCTV units from Pearpoint Inc. with tractor-mounted pan-and-tilt camera heads.

"The purpose of this secondary video was to identify laterals we didn't need," says Sawyer. "We took that opportunity to bulkhead off those unnecessary laterals by not reinstating them once the liner cured." We anticipated that we might inadvertently eliminate service to someone who needed it, but that didn't happen.

"We did have two where we weren't sure if we should leave them closed," Sawyer recalls. "Even through dye testing and other inspections, we just couldn't be sure if they might be drains or something important, so we erred on the side of caution and left them open." A state grant covered the cost of this video.

"We now have a complete video inventory of our entire system," says Sawyer. "This allows us to do the whole project at once, instead of piecemeal with many different contractors. That benefits I&I across the system."

“We have to be able to demonstrate a positive return on investment — that each lateral contributes enough I&I so that cost of treatment exceeds cost of repair or replacement.”

Joe Sawyer

“We have to be able to demonstrate a positive return on investment — that each lateral contributes enough I&I so that cost of treatment exceeds cost of repair or replacement,” Sawyer says. “These inspections determine that, and homeowners will be given a timeline to make repairs.”

Secondary additions

A second grant funded Phase 3, rebuilding of the main pump station, which moves 90 percent of Corunna’s flow. High wet-weather flows had been taxing the station.

The computerized Ferry Street Pump Station uses the RSVIEW 32 monitoring package from Rockwell Automation. A laptop computer equipped with PC Anywhere software from Symantec turns pumps on and off remotely.

The new interceptor replaced a badly degraded and undersized line that crossed a floodplain and contributed substantial I&I. The new pipe upsized the line from 15 to 21 inches, and 24-inch PVC was installed to take the flow under the river to the pump station.

The city is now putting together a Phase 4 plan to address private laterals and the remaining lift stations. Sawyer expects that as many as 300 laterals will need replacement at a cost of about \$1 million. “We’re still not sure what to do with the lateral connections,” he says. “We’re looking at a top hat or boot seal system. We’re still under-

going engineering on this. We don’t want to have to tear up yards and take down century-old trees. We’re even considering purchasing a lateral lining system so we can do it in-house.”

Crawford knows one thing for sure: Actions speak louder than words. The city’s action on the I&I issues give him confidence to ask system users to step up to the plate and do their part. “A lot of our problem was our own main lines, and no one likes a hypocrite,” he says. “Having fixed the mains, we can now go to the homeowners and say we’ve done what we can on our end.” ♦

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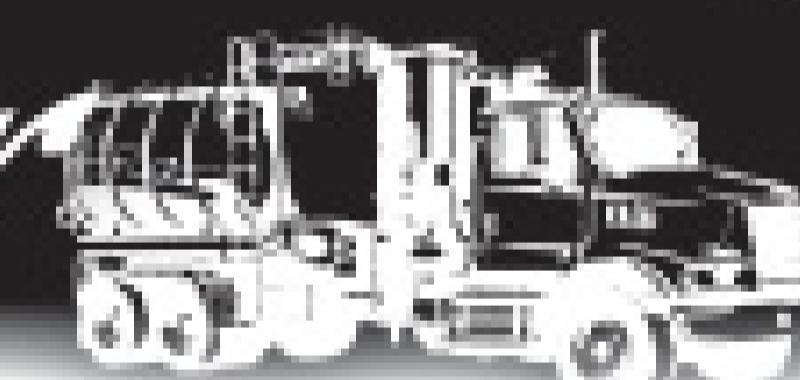


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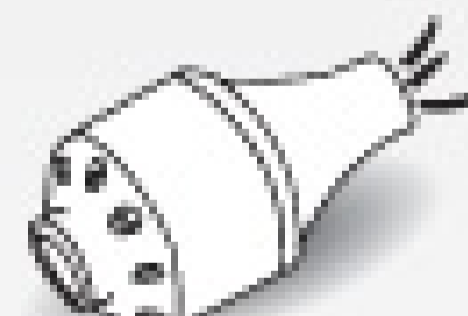


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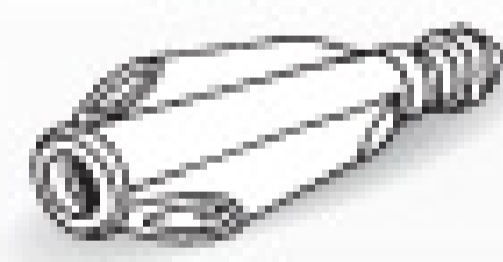
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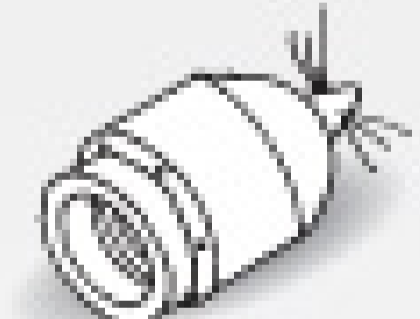
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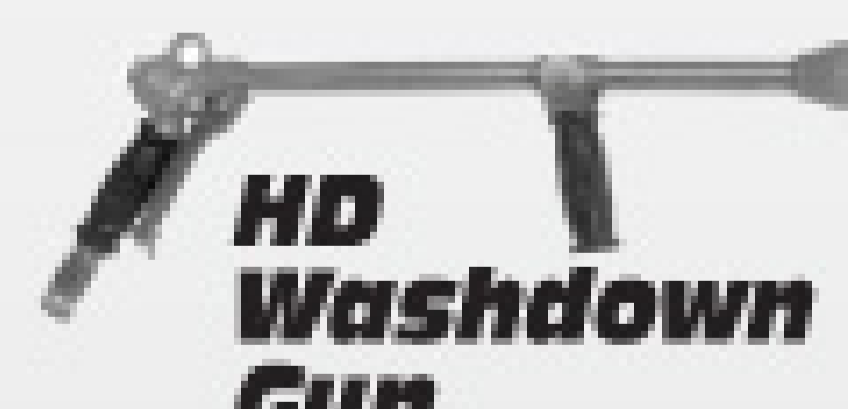
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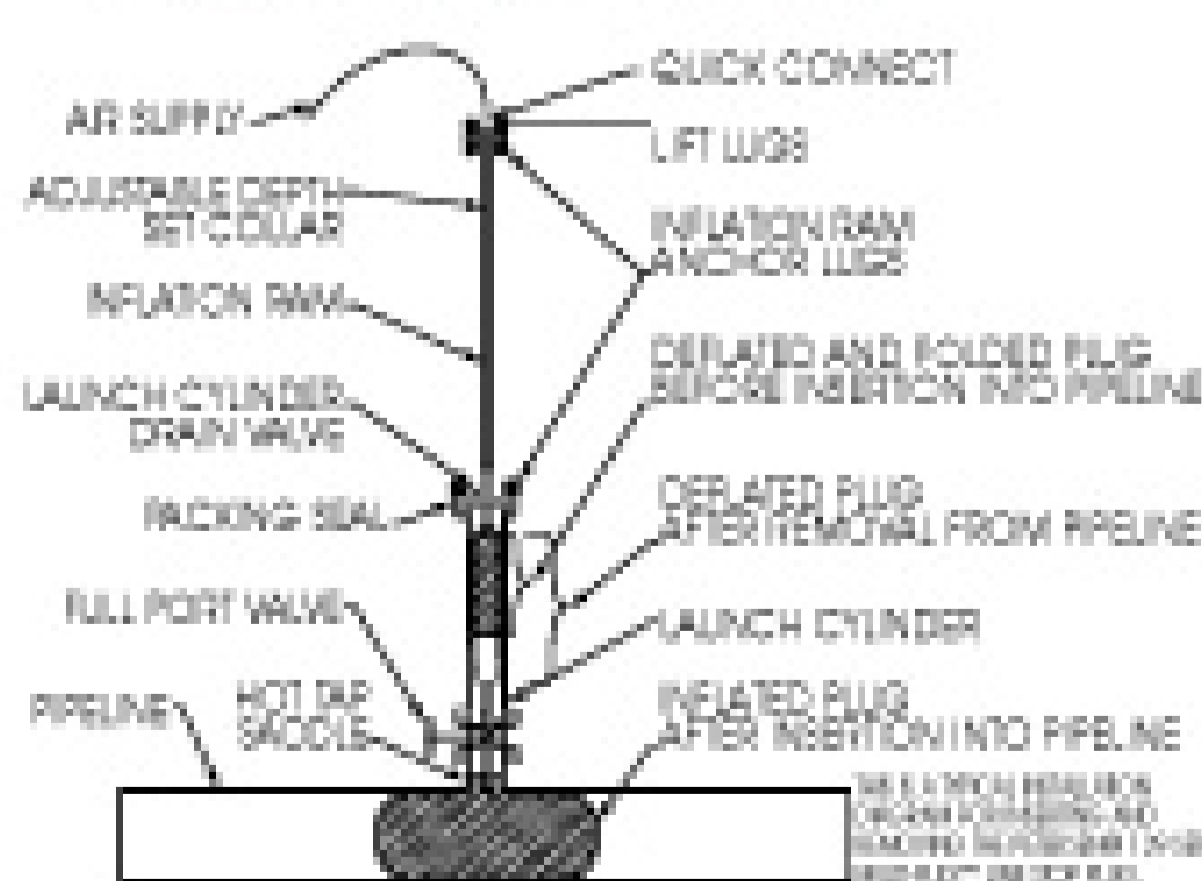
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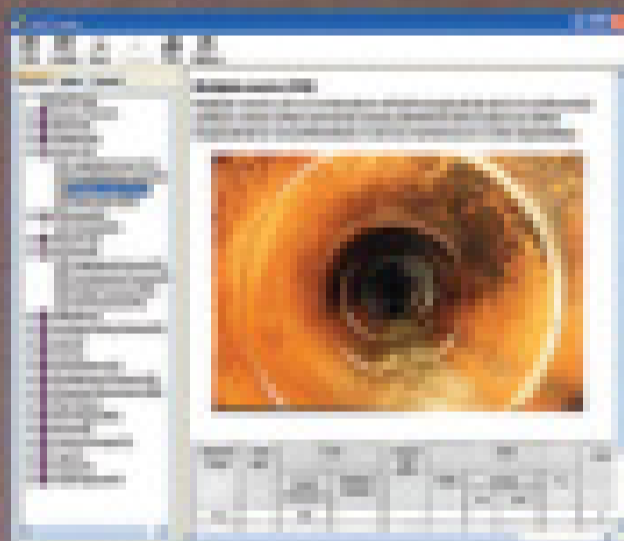
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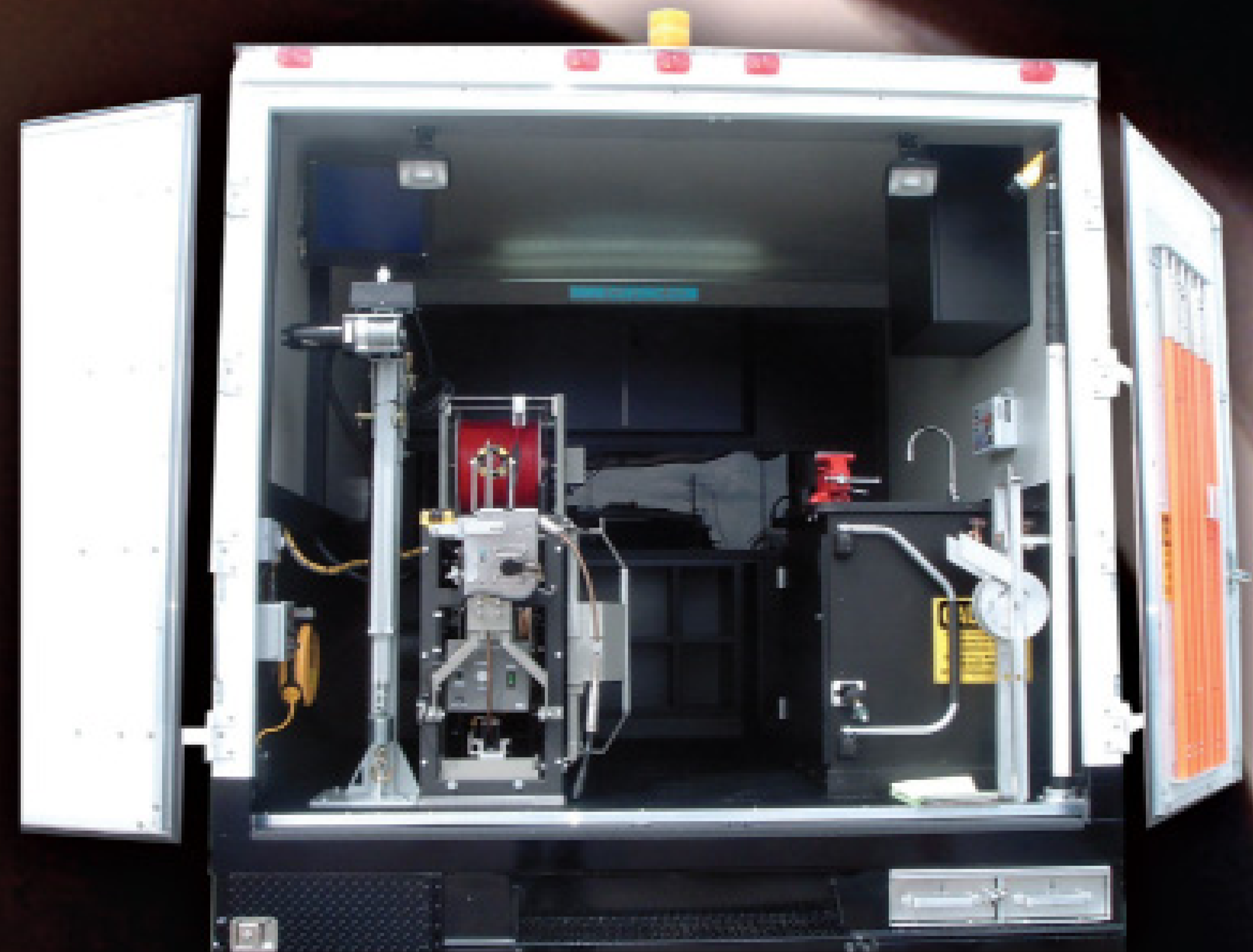
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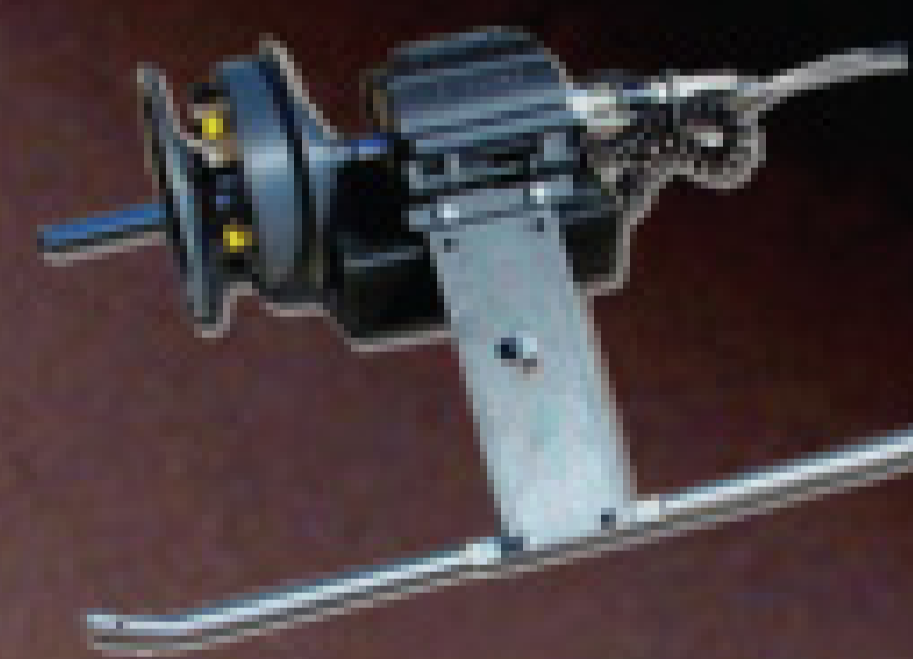
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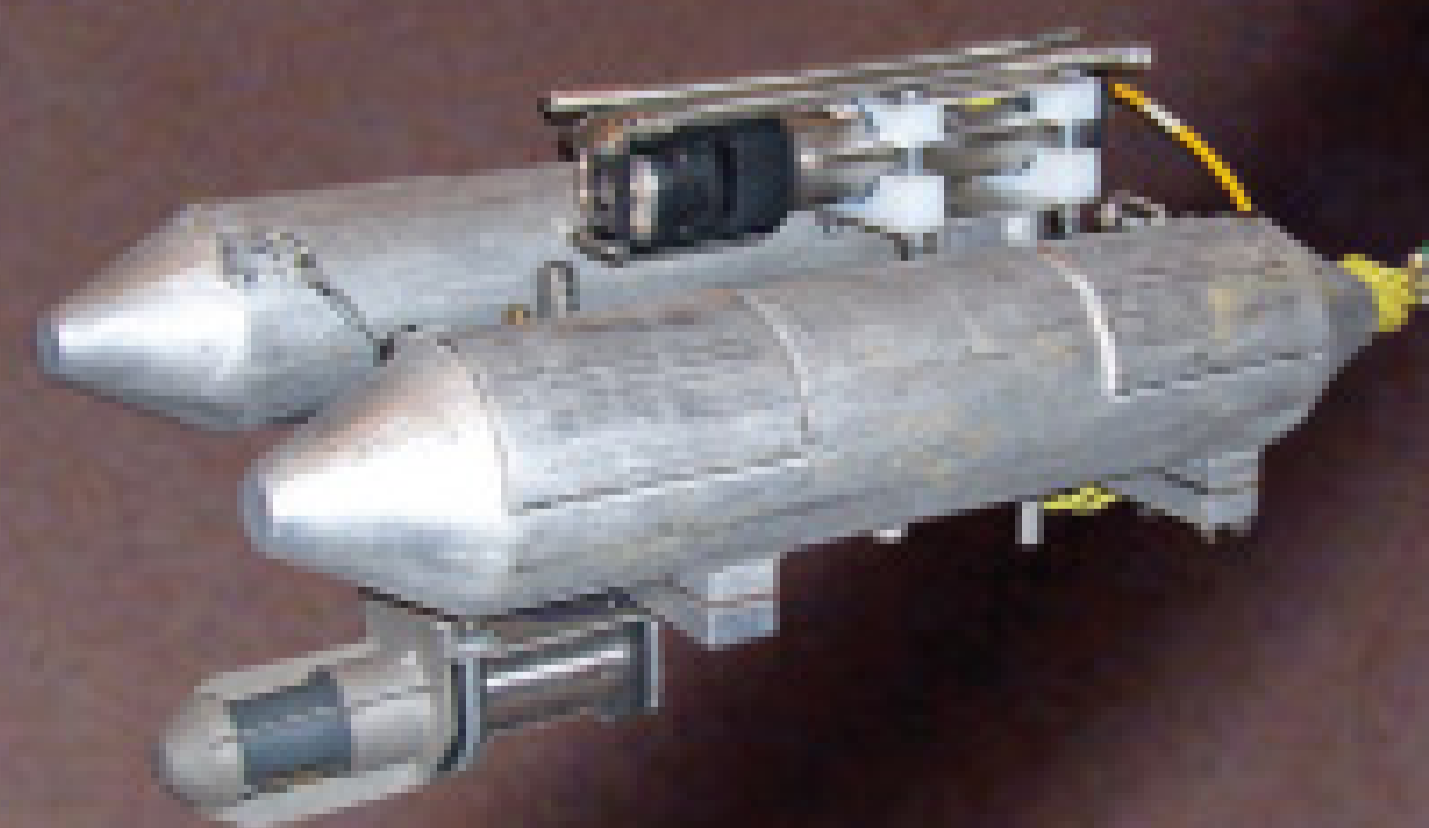


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A flashlight beam illuminates the manhole, enabling a crew from the Cottonwood Improvement District to see the color of the water and the debris jettied from the sewer pipe. (Photography by Ashley Franscell)

FOCUS: SEWER

ZERO BACKUPS

The Cottonwood Improvement District's inspection and maintenance program gets wastewater out of residents' basements and earns wide recognition

By *Scottie Dayton*

Walking through ankle-deep sewage backed up in a restaurant convinced Jim Faulkner, who was spending his first week as supervisor of the Cottonwood Improvement District in Salt Lake City, Utah, that its maintenance program had serious flaws. He swore an oath that wastewater would leave patrons' homes and businesses forever, instead of visiting neighbors two or three times per week.

The trustees of the district, which operates and maintains the collection system, charged Faulkner to reorganize and gave him permission to handpick his staff, replace people if needed, and purchase equipment.

His efforts produced a massive manhole inspection campaign and sewer-cleaning program that became a model for other districts. Under Faulkner's guidance, asset mapping

jumped from crosses on aerial photographs and 25 sheets of paper to the digital world. Today, his crews inspect 4,500 feet of sewer pipe per day per truck using equipment from Cobra Technologies. More typical production for inspection crews is 2,000 to 2,500 feet per day per unit.

With Faulkner's in-depth preventive maintenance program, the collection system has seen zero backups since 2000. The achievement has won the district numerous awards from the Water Environment Association of Utah for best-operated collection system. The last came in 2007, only because Faulkner did not apply in 2008 and 2009.

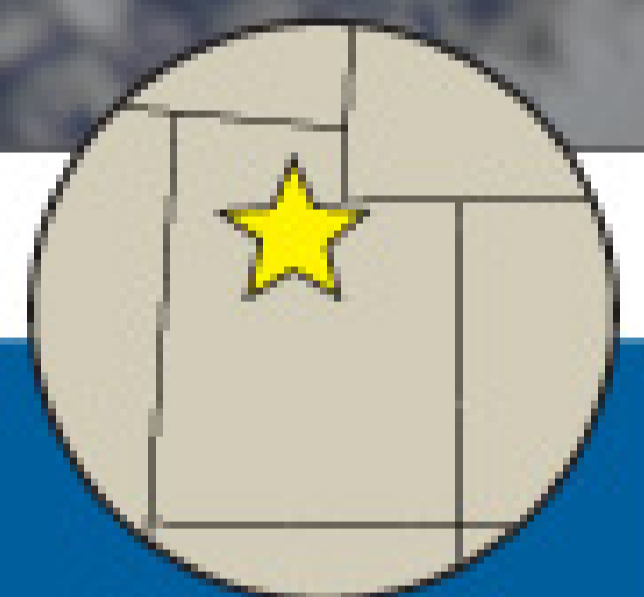
Yankee ingenuity

The Cottonwood Improvement District, population 125,000, contracts to maintain the sanitary sewers of two ski resorts, an unincorporated county, sections of four cities, and 50 private lines from

gated communities. Six main collection lines send 10 mgd to the Central Valley Water Reclamation Facility. One-fourth of the concrete pipes are older than 50 years, and one-third are older than 30 years.

When Faulkner transferred to the collection system area, he asked to see the cleaning records and received 25 pieces of paper covering 300 miles of sewer mains. His first order of business was dedicating a technician to pull all 8,000 manhole covers and look inside to determine sewer conditions. It took two years, but it revealed that dustpans falling into the invert from the weight of collected dirt were causing many backups. Faulkner ordered them removed.

His program to locate and bring every manhole up to grade was rough on crews. Mapping was poor, forcing them to measure off and use a metal detector. Many manholes, often buried 3 feet under asphalt, were excavated with picks



PROFILE:
Cottonwood Improvement District, Salt Lake City, Utah

FOUNDED:
1957

CUSTOMERS:
25,000

SERVICE AREA:
22 square miles

EMPLOYEES:
31

INFRASTRUCTURE:
310 miles of collection and trunk lines, 3 lift stations, 50 miles of private lines

ANNUAL BUDGET:
\$6 million (wastewater capital and operations)

WEB SITE:
www.cottonwoodimprovement.org

“I want my guys to always have top-notch equipment. Budget-wise, the vehicles don’t cost much money to operate because they’re still under warranty, and rotating tires every other oil change usually eliminates buying replacements.”

Jim Faulkner

and shovels. Faulkner ordered a jackhammer and air compressor, then marked the locations of uncovered manholes on aerial photographs.

“Raising manholes meant driving 20 miles to the asphalt batch plant for a load,” says Faulkner. “By the time the guys returned, the asphalt was cooling and didn’t adhere well.” A chance meeting with a Wiley asphalt-recycling machine (Martec Recycling Corp.) changed all that. Crews now jackhammered out the asphalt and threw it in the machine. By the time they raised the manhole, the recycled asphalt was ready to shovel. They tamped it down with a gasoline-powered compactor. Today, the district has three Wiley machines and four men in two crews dedicated to maintaining manholes.

When the city resurfaces streets, Faulkner’s crews follow, raising the manholes with concrete grade rings. But at \$26 each, the expense was consuming the district’s budget.



Workers shovel hot asphalt from the Wiley asphalt-recycling machine (Martec Recycling Corp.) around a manhole raised to grade. The district owns three such machines.

Faulkner told the maintenance shop to make a mold for a 6-inch grade ring. During inclement weather, the manhole crews pour rings for \$3.50 each. Faulkner added 2-, 3- and 4-inch molds. “We stockpile each size,” he says. “I don’t know if you can even buy the little ones.”

Meanwhile, Faulkner noticed the men suffering from numerous back injuries and strains. On his suggestion, the district hired a health provider and physical therapist to ride with the crews, evaluate

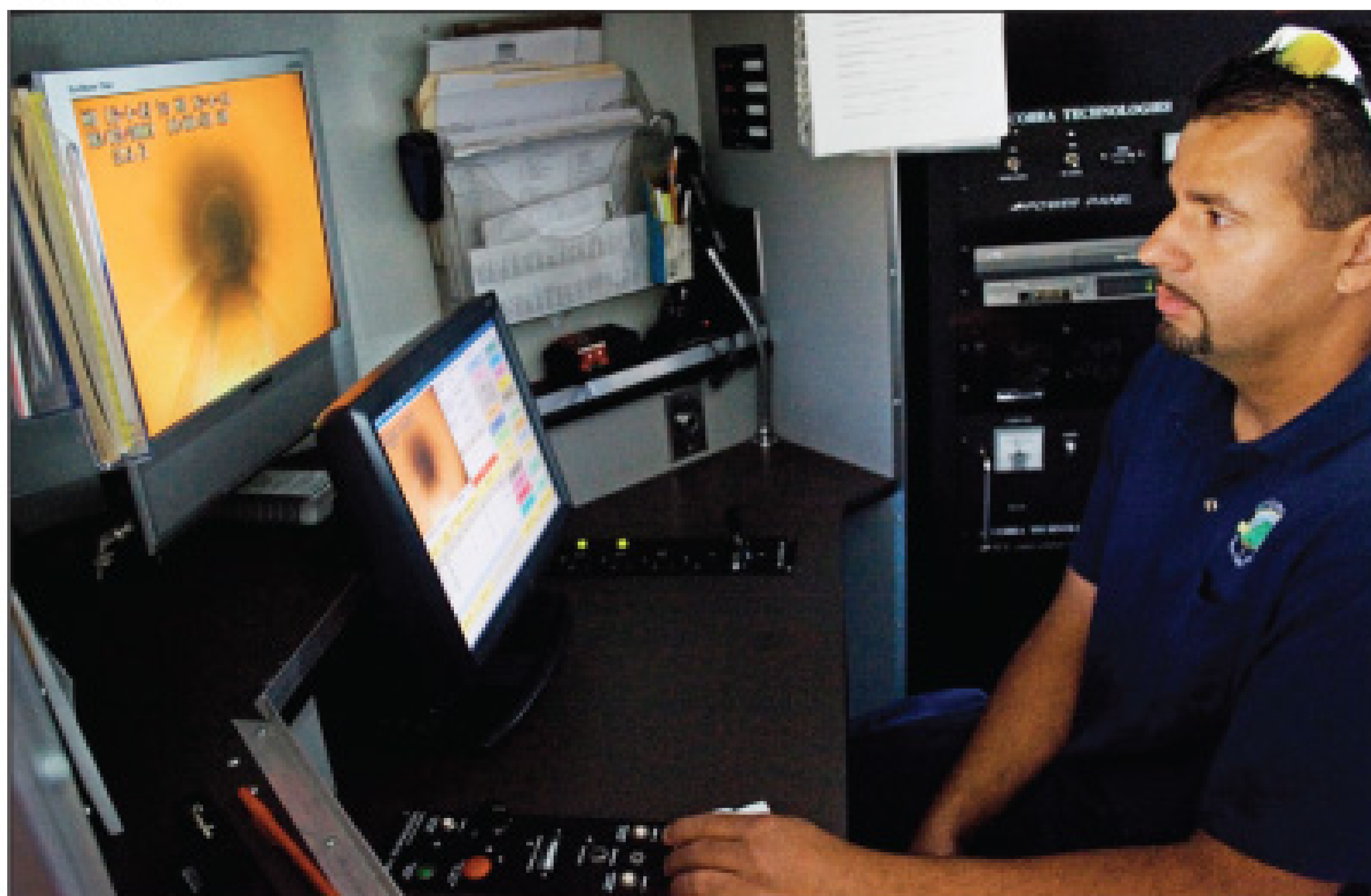
the jobs, and develop a solution. “They came up with stretching exercises,” says Faulkner. “Every morning, we give our people 15 minutes to loosen and warm up their muscles. Since then, we haven’t had one back injury.”

Old meets new

The district’s cleaning policy had been to focus only on problem

areas. Faulkner’s policy was to attack the neglected collection system. He replaced the old sewer-cleaning truck with four new 9-cubic-yard combination sewer cleaners from Vac-Con Inc.

John Martliz operates Cobra’s inspection equipment from inside a Ford Super Duty cutaway van. The industrial touch screen reduces the time operators spend hunting and pecking at the keyboard, and eliminates typographical errors.



SURCHARGE SIMULATOR

Jim Faulkner, manager of the Cottonwood Improvement District, was so successful in achieving his goal of zero sewer backups that it was disturbing his sleep.

He felt the weakest links in the service chain were new employees who had never seen a backup. “If my guys were called out, they wouldn’t know what to do,” he says. His solution was to build a backup simulator behind the maintenance shop.

The simulator has two manholes on a buried length of 8-inch sewer pipe. “We plug one manhole, fill the pipe with water, and let the other manhole surcharge,” he says. Meanwhile, the office receptionist calls the truck with the new employees and tells them to report to the shop address.

When they arrive, Faulkner takes the bewildered men to the simulator and asks them how they would handle the problem. “We observe what they do, then instruct them in the correct technique,” he says. “It’s worked very well, and I’ve slept more soundly.”



Jeff Terry of the Cottonwood Improvement District retracts a mainline crawler from Cobra Technologies after inspecting 200 feet of pipe. Crews inspect 4,500 feet of sewer pipe per day per truck. The average is 2,000 to 2,500 feet per unit.

Many districts flush a dozen line segments, sending material to one manhole for removal. Faulkner believed that left too much debris and ordered his crews to clean manhole to manhole. "Some may call that overkill, since EPA statistics state that 50 backups a year are an acceptable number for a district our size," says Faulkner. "Our annual cleaning program ensures that we don't have any."

Faulkner also noticed that the cleaning crews were losing up to three hours a day returning for water. "Various cities wanted to meter the water the men drew, and that meant carrying six different meters," says Faulkner. "So, I bought a 4,000-gallon water tanker to service the trucks. It increased our cleaning production dramatically."

The collection system includes Solitude Ski Resort in Big Cottonwood Canyon and Brighton Ski

Resort in Little Cottonwood Canyon. During heavy snows, the highway department closes the roads to all vehicles except those with four-wheel drive or tire chains. Faulkner ordered a custom

"They aren't sitting in those vans reading magazines. They're out working. Pruning deadwood produces positive results."

Jim Faulkner

Vac-Con HotShot hydrojetter mounted on a four-wheel drive Ford F-600 so crews could respond more easily during weather emergencies in the canyons.

Faulkner's fleet maintenance program replaces the heavy trucks every five years and smaller vehicles at 50,000 miles. "I want my guys to always have top-notch equipment," he says. "Budget-wise, the vehicles don't cost much money to operate



Working manhole to manhole, the Cottonwood Improvement District cleans its 360 miles of sewer pipe once per year. Here a worker prepares a Vac-Con combination sewer cleaner for action in Cottonwood Heights.

because they're still under warranty, and rotating tires every other oil change usually eliminates buying replacements."

Endless documentation

To collect data on the cleaning program, Faulkner had Data Equipment Co. Inc. in Houston, Texas, create a data logger program for the combination trucks.

"It records if the vacuum is on

and for how long, when the truck takes on water and how many gallons, when the truck is up to pressure during cleaning or if only the water is on, and how far the hose goes out and back," he says. "The trucks also have GPS. When they return to the shop, the data downloads to a computer. Now I have irrefutable proof that the lines are cleaned annually."

Although not responsible for

lateral maintenance, Faulkner developed a field report that tele-vising crews leave at homes where they spot potential problems. When customers call to ask what the report means, Faulkner takes the opportunity to recommend that they remove roots or repair cracks.

Another field report Faulkner created covers service calls. It includes the date, time, technician's name, his evaluation, and a copy for the customer. Both are successful public relations tools.

After his promotion to manager, Faulkner asked for an in-house engineer. "I told the board of trustees that we can't operate as if we're still in the 1950s," he says. "We were doing today's work with yesterday's equipment. For example, nothing about our limited camera inspections was organized. Information on paper or videotape was difficult to find, and storage space was at a premium."

Faulkner hired Greg Neff and charged him with modeling the district. "I had to know how development would affect flows to the treatment plant and if lines needed enlarging to prevent surcharging," says Faulkner.

He also contacted Alan Grant of Cobra Technologies. "Compared with what we had, his equipment is so user-friendly and reliable," says Faulkner. "We bought a straight-line and a pan-tilt-zoom camera on 8-inch mainline crawlers. They run problem-free five days a week all day long."

Two Ford Super Duty cutaway vans house Cobra's inspection equipment, CIMS software, and a CDL 9000 data logger with an industrial touch screen running the NASSCO Pipeline Assessment and Certification Program system. "My guys aren't typists," says Faulkner. "The touch screen increased the time they spend working instead of hunting and pecking at the keyboard. The system also eliminates typos."

Data and digital video files, stored on a portable hard drive, are uploaded daily to the CIMS office software on the district's server. Neff uses the information to populate the GIS mapping system that includes pipe details and the depths of manholes. Anyone on the network can access the inspection information and related MPEG

videos to answer questions. The integrated CIMS data management system enables the district to make informed decisions about managing the collection system.

Record setters

Crews inspect 4,500 feet of sewer pipe per day per truck by analyzing the area, spotting where they can set up on key manholes, and televising in three or four directions. Cobra's data collection system enables them to focus on just inspections, and leave management and analysis information to those with specialized expertise.

Faulkner attributes the record-breaking pace to organization and quality personnel. "They aren't sitting in those vans reading magazines," he says. "They're out working. Pruning deadwood produces positive results."

Besides overseeing manhole cleaning and sewer inspection crews, Faulkner manages a three-person inspection department that inspects pipe repairs and new installations, and handles Utah's Blue Stakes call-before-you-dig notifications. All crews are cross-trained.

Faulkner's policy of involving his supervisors improved communication between the departments and the system's overall operation and maintenance. He holds staff meetings three times a week and employee meetings monthly to discuss safety and operational issues.

While organization comes naturally to Faulkner, he believes it is driven by two questions: Where are you going and how will you get there?

"My objective was to have zero backups, and everything we've done has been to that end," he says. "Our success is a team effort between me, our board, supervisors and dedicated, hard-working employees." ♦

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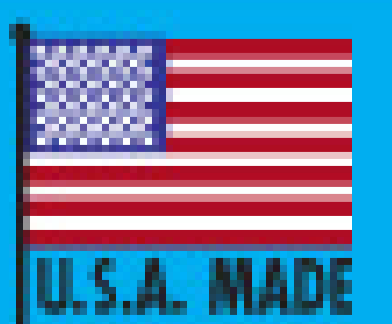


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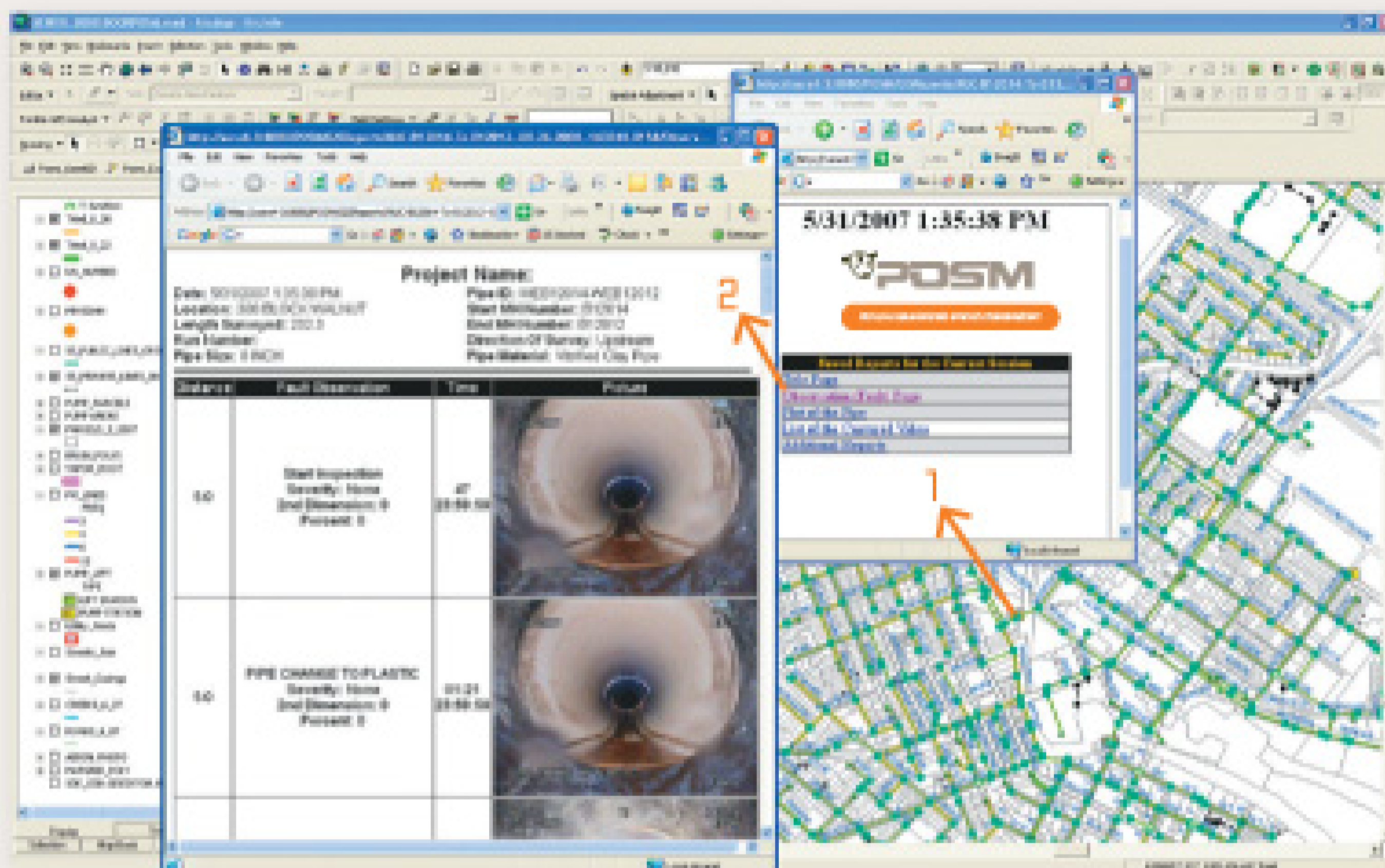
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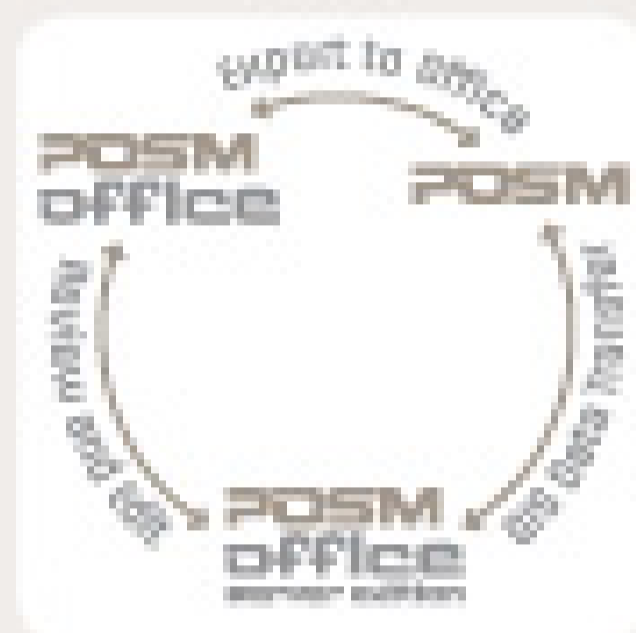


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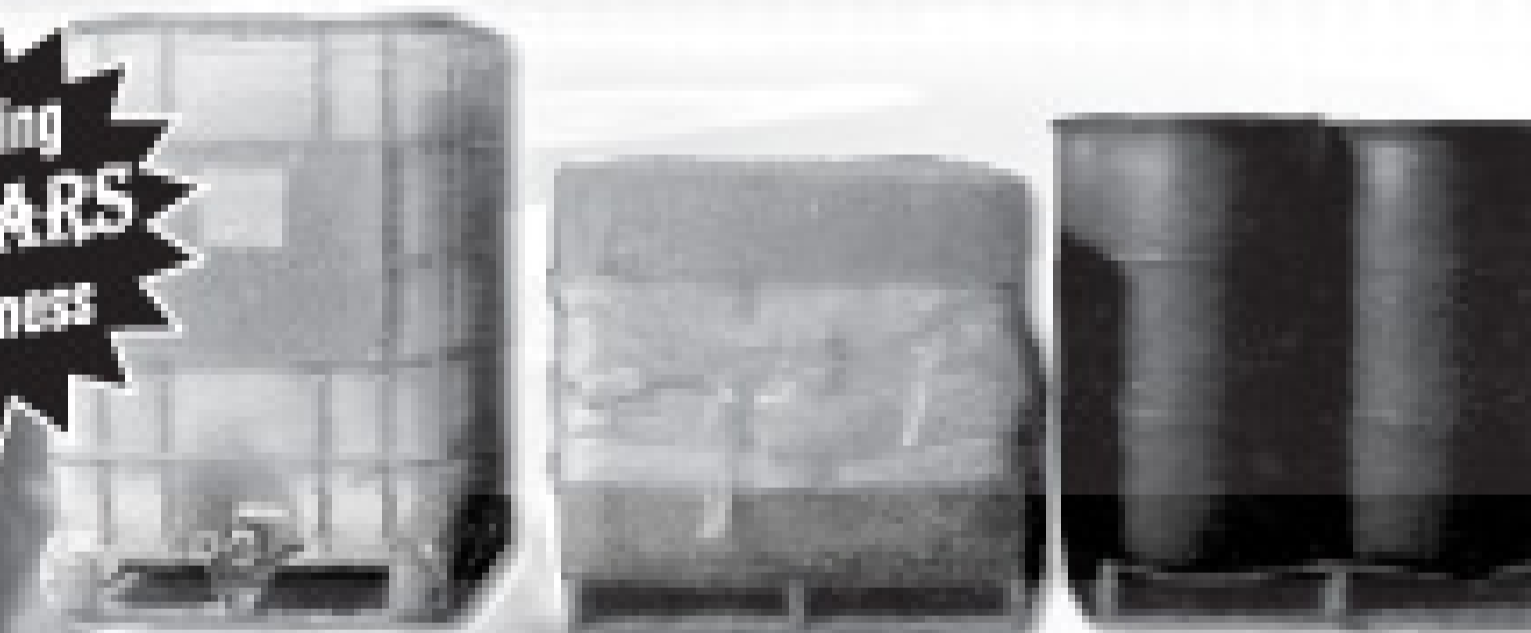
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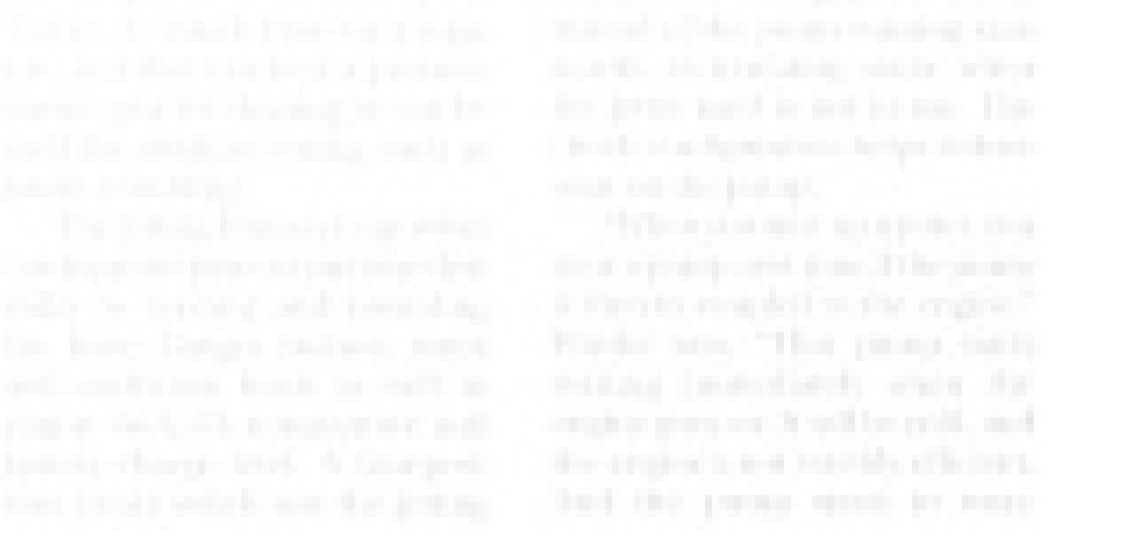
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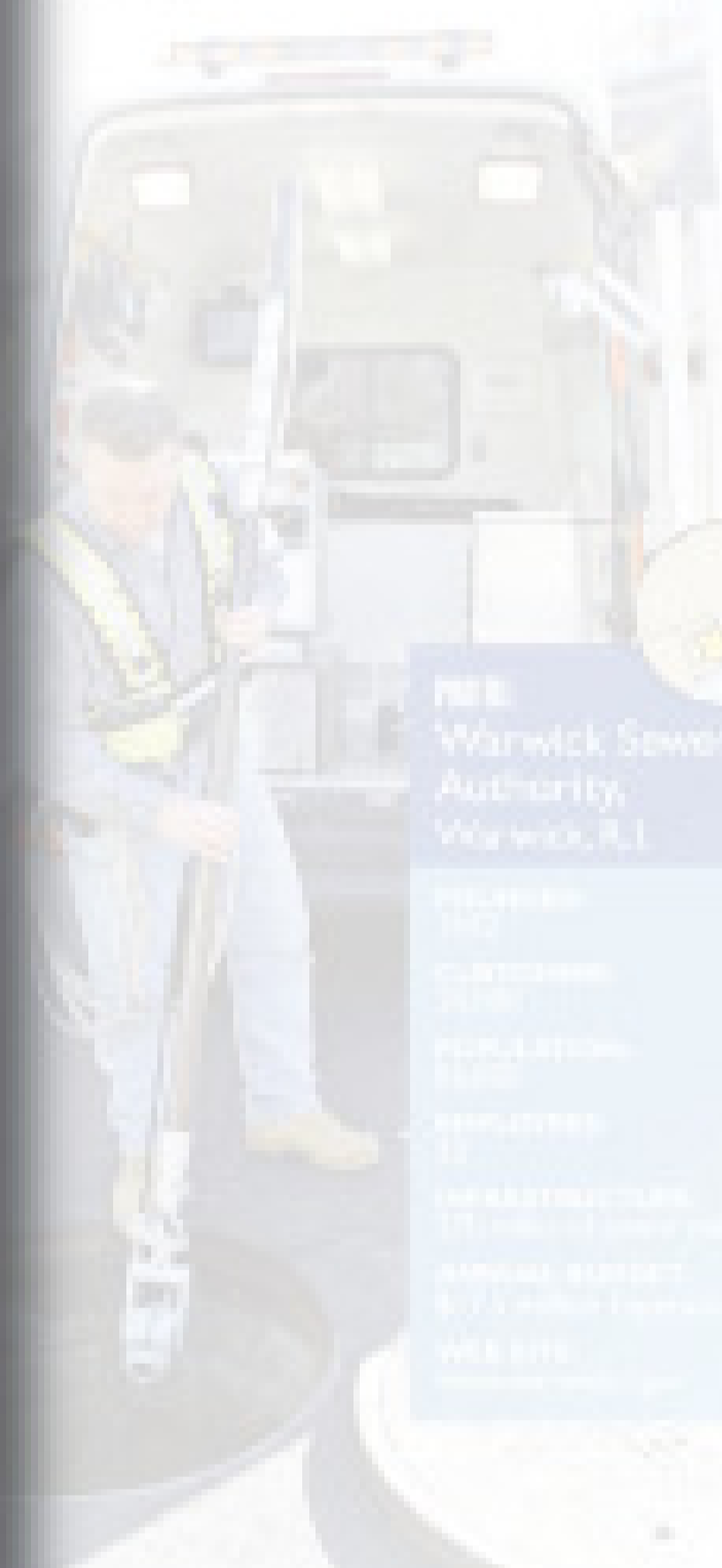
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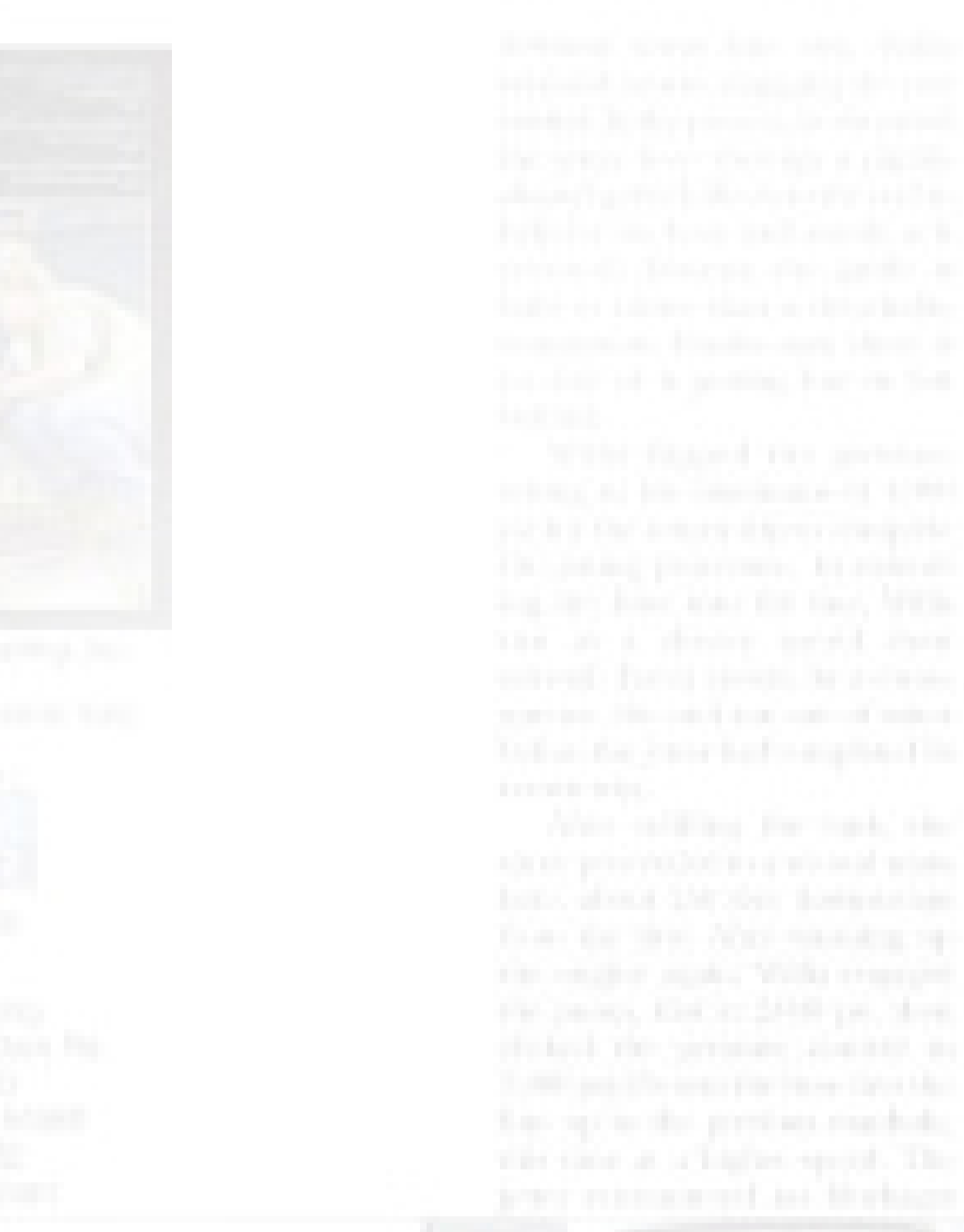


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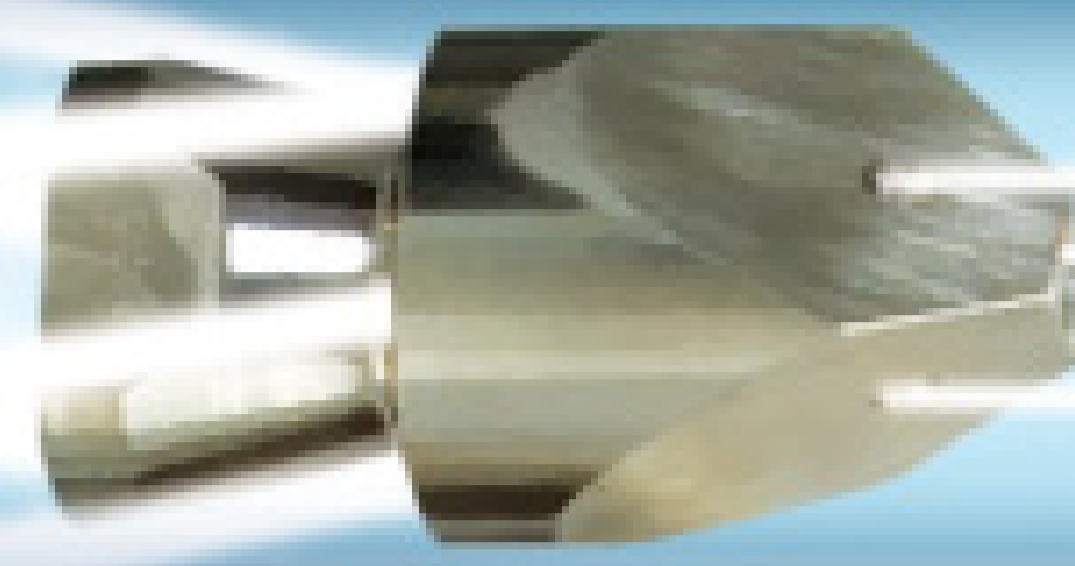


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PRODUCT:

Adjustable manhole frame with support ring

APPLICATION:

Raises manhole frames using setscrews

BENEFITS:

Enables quick, simple leveling of manholes with street surface

USER:

City of Kelowna, British Columbia

MANUFACTURER:

Terminal City Iron Works A.C.S. Inc., Langley, British Columbia

WEB SITE:

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A worker adjusts a setscrew using the 5/16-inch Allen wrench in his right hand. The string line helps set the grade. (Photos courtesy of Wayne Nadasde, Kelowna, British Columbia)

TURN OF THE SCREW

A British Columbia city staff member devises a new method for adjusting manhole frames to match street elevations

By *Scottie Dayton*

“Our citizens are happy that we’ve addressed our maintenance issues with a reusable product, and we’ve reduced the number of work-related back strains or injuries.”

Kelly Hanson

Settlement, circumferential and radial cracking, holes, and asphalt separating from around poorly adjusted manhole frames were a way of life in Kelowna, British Columbia. The failures brought inflow and infiltration, and noise complaints from residents tired of hearing ka-lunk as vehicles drove over the manhole covers.

If conditions became bad enough, an Infrastructure Planning Department crew patched them; otherwise, maintenance was ignored.

Kelly Hanson, utility technologist, was curious about the extent of the problem. His drive-by survey revealed that half the manholes had asphalt failures or the adjustment elevation did not meet tolerance. Further investigation found causes such as chimney deterioration, settling, poor workmanship, unsuitable materials, and freeze-thaw cycles.

Contractors used rocks, sticks, and metal wedges to elevate the manhole frame to final slope and grade. Hanson questioned whether those materials provided the

required H-20 loading factor. They didn’t. Even metal wedges and washers produced point loads on the concrete grade rings that cracked the asphalt.

Aware of the issues, construction superintendent Wayne Nadasde designed a support ring system for the city’s standard manhole cover and frame. He took his design to Terminal City Iron Works A.C.S. Inc. in Langley, British Columbia, for casting. The adjustable manhole frame with support ring, or AFSR, was born.

Kelowna and surrounding municipalities have used the AFSR exclusively since 2005. Many provincial engineering consulting firms have started specifying them.

Safe and simple

A retaining lip on the bottom of the support ring secures it inside the grade ring, stabilizing and centering the frame during construction. A centering groove in the top of the support ring accepts four setscrews in the frame. The setscrews adjust the frame's elevation and camber. A 1-inch-tall riser above the support ring allows the worker to apply a minimum 1-inch-thick layer of concrete under the frame.

The support ring lies flat on the grade ring, giving even support around it and eliminating point loads created when rocks and wedges are used as adjustment tools.

Before installation, the worker puts graphite lubricant on the setscrews or in the tapped holes. Using string line, straightedge, site level or survey equipment, he or she matches the frame rim to final grade and elevation by turning the setscrews with a 5/16-inch Allen head socket. The threads on the setscrews are protected by PVC caps.

"Our guys doubled the number of adjustments they do in a day, and with less physical effort and risk of injury," says Hanson. "When doing repairs, the ease and speed of installation enables us to open roads sooner."

Over several years, Nadasde and Hanson compiled information and test data to support the invention. In their manhole investigation report, they identified criteria for manhole frame adjustment products. They should be simple, safe, stable, reusable and cost-

effective, as well as install quickly, support H-20 loading, and adjust to within millimeters. The investigation confirmed that the AFSR did all of the above.

"Initially, we had two people on the string line, another lifting the frame, and one man adjusting it," says Hanson. "Lifting is heavy work and hard on backs. The AFSR needs two people on the string line and one adjusting with a ratchet."

Money maker
The city's major roads have two lifts of asphalt. After the base course is laid, crews adjust the

manhole frames and wrap plastic sheets around them and the support rings. They then place asphalt or concrete around the outside of the plastic and just under the edge of the frame base.

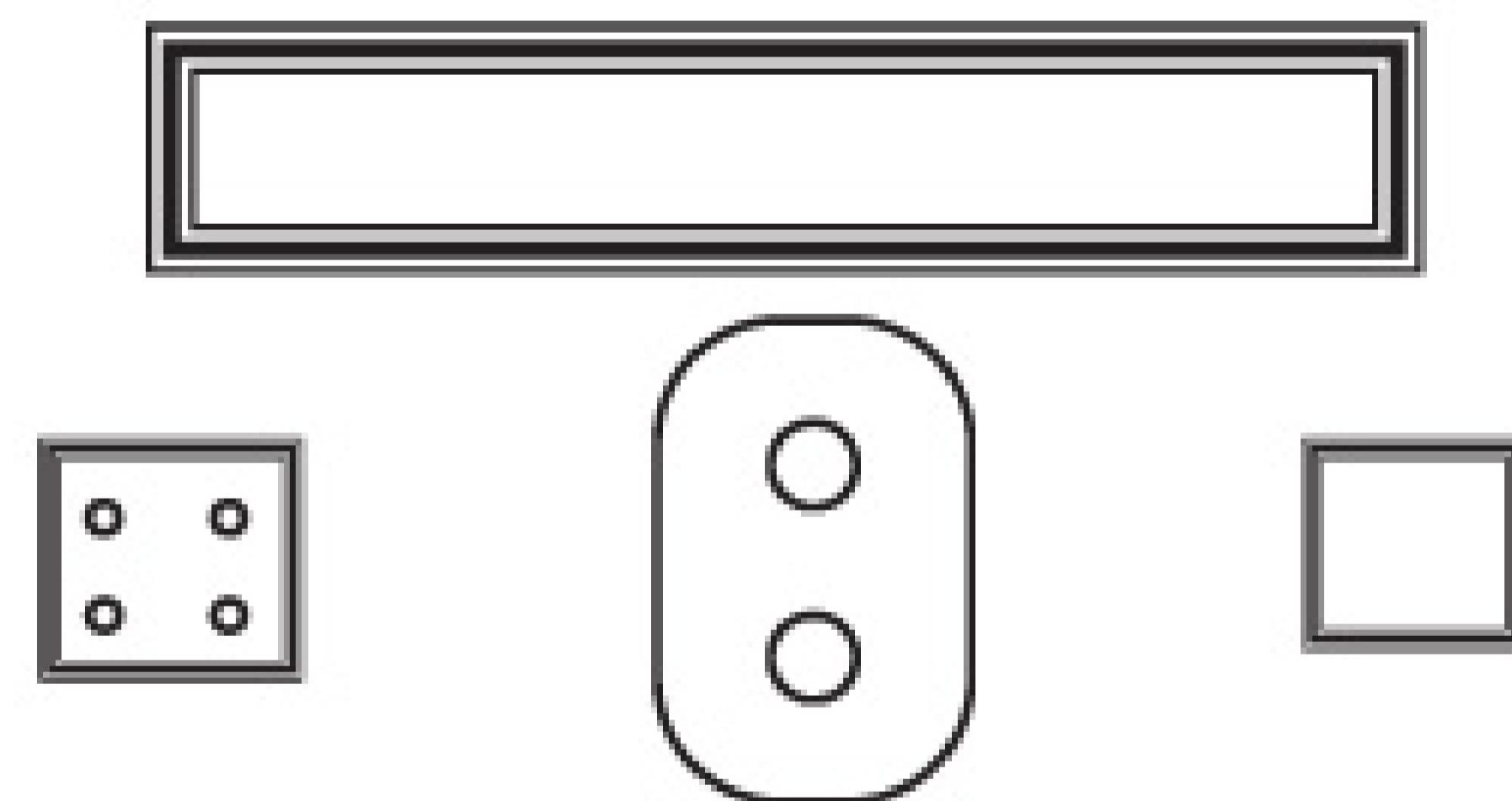
"The AFSR meets H-20 load specification without concrete support," says Hanson. "Once the second lift is applied, a worker knocks off the manhole's surrounding material, pops the protective caps, and turns the setscrews to readjust the frame. We save a couple hundred dollars every time we do this." Crews used to pour concrete around the exterior of manholes, then return to grout the interior. The design of the AFSR allows a homogeneous pour around and between the frame and support ring that eliminates future I/I issues. "Placing the concrete directly after adjustment produces sound structures that eliminate

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A worker sets an adjustable manhole frame using a bar to check the grade.

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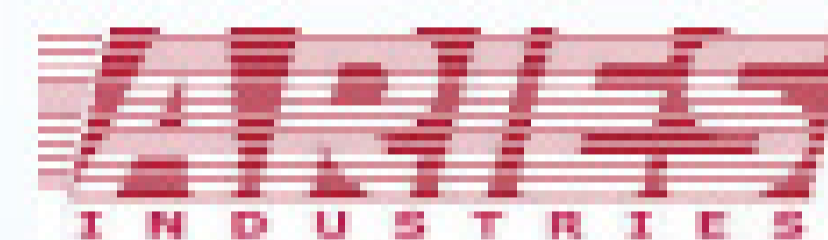
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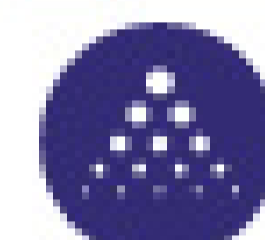
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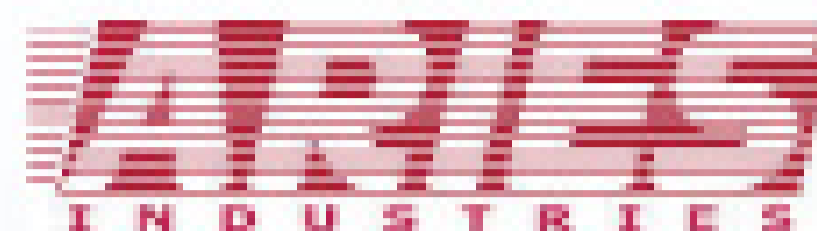
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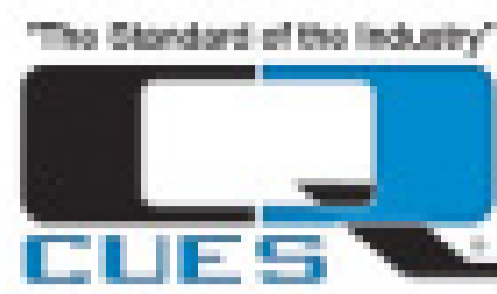
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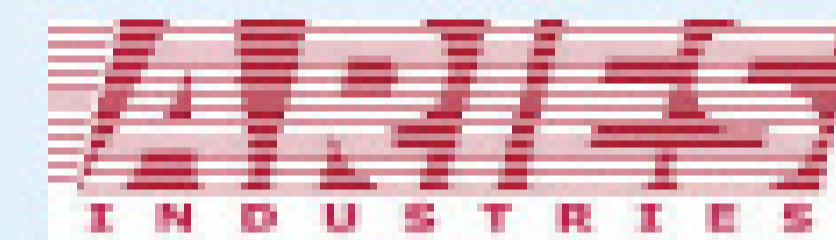
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KMH Equipment, Inc.

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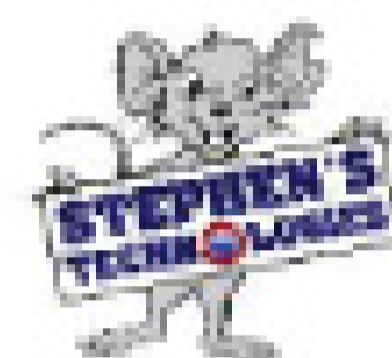
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Pump Parts/Components

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Fax: 941-739-0001
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richard@watercannon.com
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Pumps - Aeration

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Fax: 405-947-1934
krjones@winnelson.com
www.centralwinnelson.com

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Pumps - High Pressure Water



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gillespie@camspray.com
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www.capstonesales.com

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Pumps - Test

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www.ahp1.com

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Duke's Root Control, Inc.

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lynn@dukes.com
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USB - Sewer Equipment Corporation

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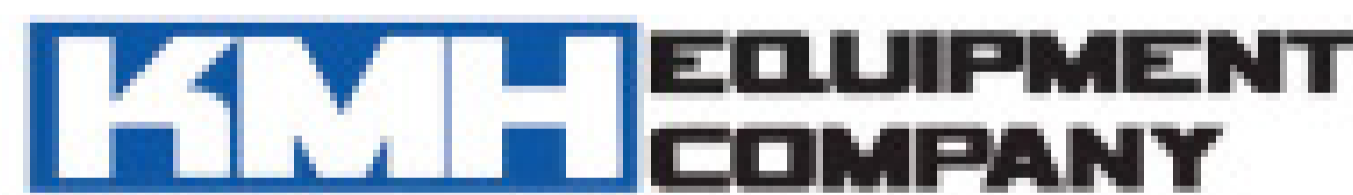
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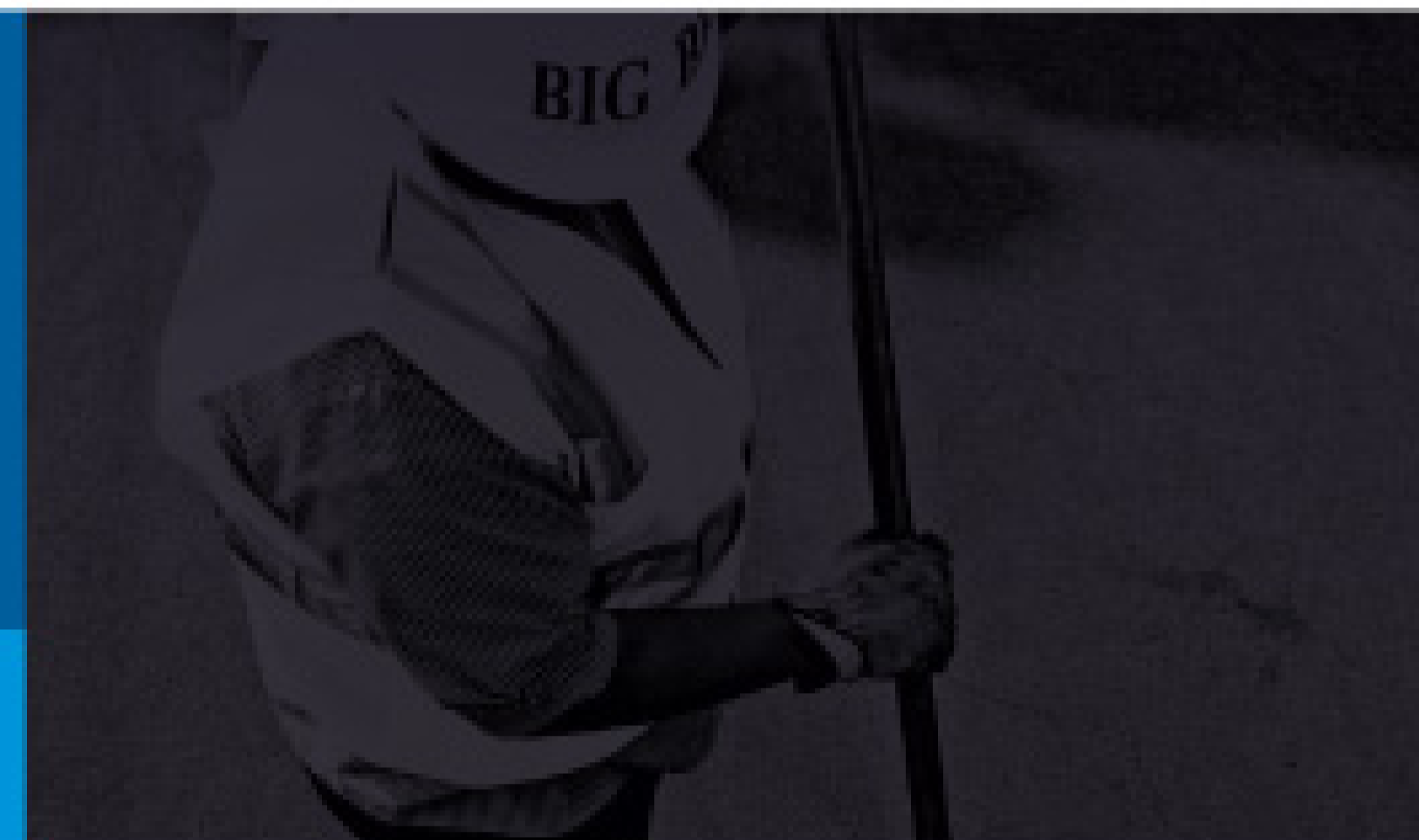
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PEOPLE / AWARDS

The **American Water Works Association** has announced these 2009 award recipients:

Leadership: **James A. Craig**, Abel Wolman Award of Excellence; **Dr. Michael J. McGuire**, A.P. Black Research Award; **Pete McCarty**, Outstanding Service to AWWA; **Donald R. Kaiser**, Distinguished Public Service Award; **Lisa Star**, Archie E. Becher Jr. Award; **John C. Anderson**, **Daniel T. Bradley**, **Steve L. Burian**, **Richard Figurelli**, **Tage I. Flint**, **Kathryn L. McCain**, **Millard P. Robinson Jr.**, **Susan S. Seacrest**, **Alan Silbovitz**, **Curtis L. Truss**, Honorary Member Awards.

Publications: **Frederick W. Pontius** and **William B. Evans**, Distribution & Plant Operations Division; **Timothy D. Hirrel**, Engineering & Construction Division; **Regan Murray**, **Robert Janke**, **James Uber**, **William E. Hart**, **Jonathan W. Berry**, **Tom Taxon**, Management & Leadership Division; **Peter Mayer**, **William DeOreo**, **Thomas Chesnutt**, **Lyle Summers**, Water Conservation Division; **June Weintraub**, **Duc Vugia**, **Lisa Gelling**, **James J. Salerno**, **Michael J. Conroy**, **Brendan Flannery**, **Valerie A. Stevens**, **Charles E. Rose**, **Richard E. Besser**, **Barry S. Fields**, **Matthew R. Moore**, Water Quality & Technology Division; **Darren A. Lytle**, **Michael R. Schock**, **Guanghui Hua**, **David A. Reckhow**, Water Science & Research Division.

Operations: **City of Big Rapids, Mich.**, Medium System; **Louisville Water Company (Kentucky)** and **Metropolitan Water District of Salt Lake and Sandy, Utah**, Large System; **Denver Water**, Utility Serving More than 25,000 Connections; **City of Grand Prairie (Texas) Public Works Department**, Utility Serving 5,000 to 25,000 Connections.

Student: **Mark G. Mueller**, Doctoral Dissertation; **David Scott**, Master's Thesis; **Meagan Mauter**, Abel Wolman Fellowship; **Taylor C. Dixon**, LARS Master's Scholarship; **Darryl B. Jones**, LARS Ph.D. Scholarship; **Carolina B. Mendez**, Holly A. Cornell Scholarship; **Jessica Fosbrook**, Thomas R. Camp Scholarship.

Section and Membership: **Stephen Geschke**, **Thomas Arizumi**, **Chuck Van Der Kolk**, **Cuauhtemoc Guajardo Ortiz**, **Jon Van Arsdel**, **Elizabeth Cerda Andrade**, Diamond Pin Awards; **John Van Arsdel** (volunteer), **Kenneth McCool** (section staff), Zenno A. Gorder Award.

The **Florida Stormwater Association** announced these award recipients: **City of Winter Park Stormwater Program**, Excellence Award; **City of Clearwater Stormwater Utility Program**, Outstanding Achievement Award; **City of Jacksonville Stormwater Management Program**, Outstanding Achievement Award; **Weeki Wachee Springs Stormwater Project**, Excellence Award.

Pacific Environmental Resources Corp. and **Alinda Capital Partners LLC** received the 2009 Water Deal of the Year Award of Distinction from the Global Water Awards.

Mike Worlton has been named a leader of a new water and wastewater practice in Arizona for AMEC, an international engineering and project management company.

Frederick Liberatore has been named Global Director-Process Separations for GE Water.

Municipal Sewer & Water invites your national, state or local association to post notices and news items in this column. Send contributions to editor@mswmag.com.

CALENDAR

Sept. 1

Water Treatment and Monitoring for Dialysis, Minneapolis, Minn. Visit www.amerewater.com.

Sept. 1-4

Chesapeake Water Environment Association Conference, Clarion Fontainebleau Hotel, Ocean City, Md. Visit www.wef.org.

Sept. 13-16

WaterReuse Symposium, Sheraton Seattle Hotel, Seattle, Wash. Visit www.wef.org.

Sept. 13-16

Pacific Northwest Clean Water Association Annual Conference, Boise Centre on the Grove, Boise, Idaho. Call 208/455-8381 or visit www.pncwa.org.

Sept. 13-16

Rocky Mountain Water Environment Association Annual Conference, Hyatt Regency/Albuquerque Convention Center, Albuquerque, N.M. Visit www.rmwea.org.

Sept. 13-16

American Public Works Association Congress — The Best Show in Public Works, Columbus Convention Center, Columbus, Ohio. Call 816/595-5241 or visit www.apwa.net.

Sept. 13-17

Virginia Water Environment Association Annual Conference, Greater Richmond Convention Center, Richmond, Va. Visit www.vwea.org.

Sept. 14-16

International Conference on Forest and Water in a Changing Environment, Raleigh, N.C. Visit www.awra.org.

Sept. 16-18

South Dakota Water Environment Association, Spearfish Holiday Inn, Spearfish, N.D. Visit www.wef.org.

Sept. 20-23

National Rural Water Association Leadership Forum and Technology Exhibit, New Orleans, La. Call 580/252-0629 or visit www.nrwa.org.

Sept. 20-23

Western Canada Water Environment Association, Winnipeg Convention Centre/Delta Winnipeg Hotel, Winnipeg, Manitoba. Visit www.wcwwa.ca.

Sept. 22

Water Treatment and Monitoring for Dialysis, Phoenix, Ariz. Visit www.amerewater.com.

Sept. 28-29

Water Resources Conference, Wilmington, N.C. Visit <http://northcarolina.apwa.net>.

Oct. 10-14

WEFTEC, Orange County Convention Center, Orlando, Fla. Visit www.weftec.org.

Oct. 20-23

National Association of Flood & Stormwater Management Agencies, Broadmoor Resort, Colorado Springs, Colo. Call 719/634-7711 or visit www.nafmsa.org.

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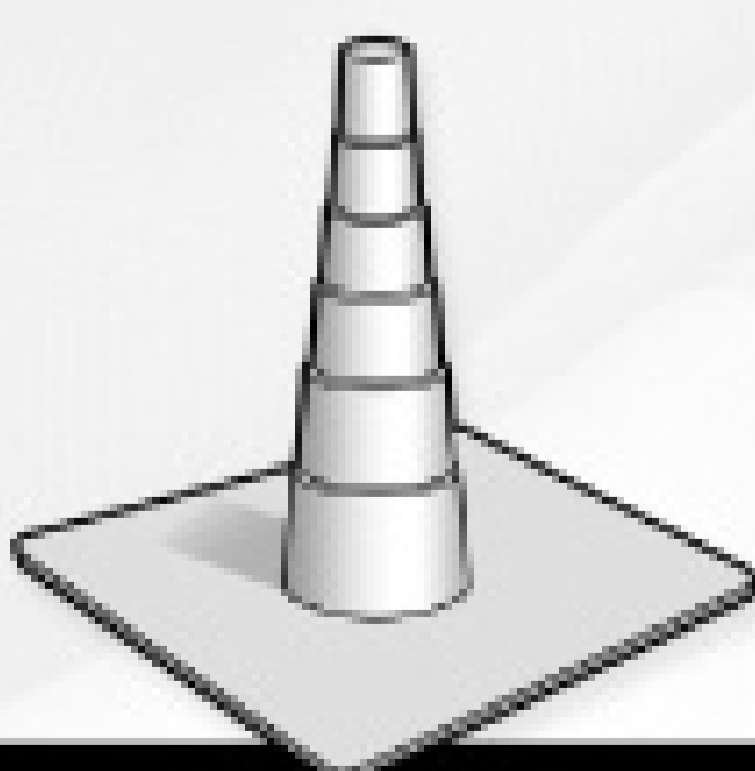
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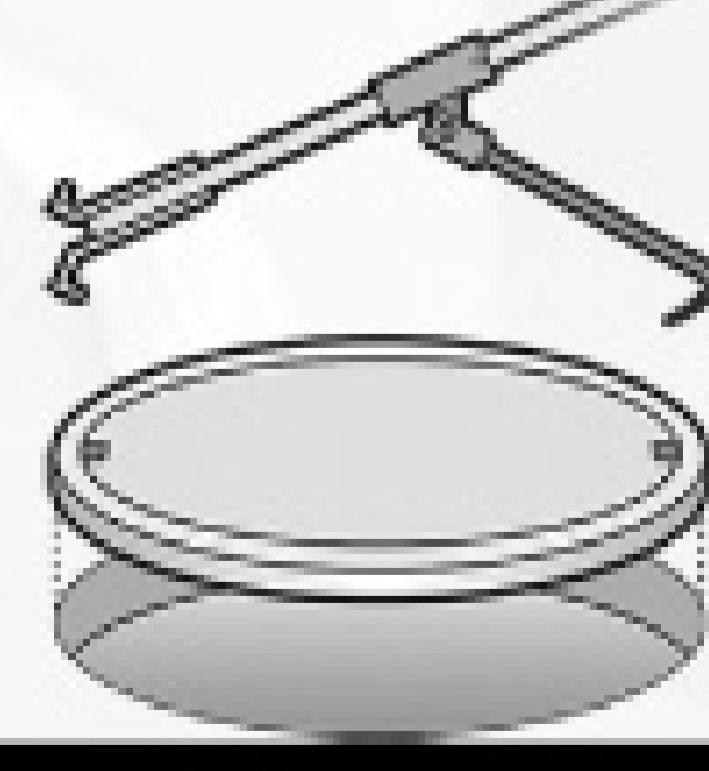
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MAKING IT DIGITAL

FlexOps data collection system lets communities record inspection, cleaning and other field data on dedicated PDAs instead of paper forms or cards

By Ted J. Rulseh

Data gathering and record keeping are critical components of an infrastructure maintenance program. Work crews must keep accurate and consistent records of what they observe when making inspections and of what they accomplish in performing regular maintenance tasks, such as line cleaning.

Traditionally, municipal departments have used paper forms or cards to record data on assets such as manholes and sewer main segments. This approach tends to be cumbersome and error-prone. Paper records are easily lost or damaged. In addition, once the data is collected, it must be manually keyed into a computer system,

a potential source for mistakes.

In addition, during the time lag between the capture of data and its entry to the system, the information is invisible to managers. As a result, problems uncovered in the field may go unaddressed for a significant period.

FlexSystems LLC of Lafayette, Colo., has devised an electronic method of collecting data from the field and transferring it seamlessly to communities' existing data systems. The FlexOps data collection systems let crews gather information on PDAs and at day's end upload it to a computerized maintenance management system (CMMS) or other asset management software.

The company typically customizes the system to accommodate the information gathering system a community is already using. The technology essentially digitizes and automates processes.

FlexSystems representatives demonstrated the technology for *Municipal Sewer & Water* by way of the Internet on June 3, using a program set up for a wastewater agency for inspecting manholes



FlexOps users record data on ruggedized PDAs. (Images courtesy of FlexSystems LLC)

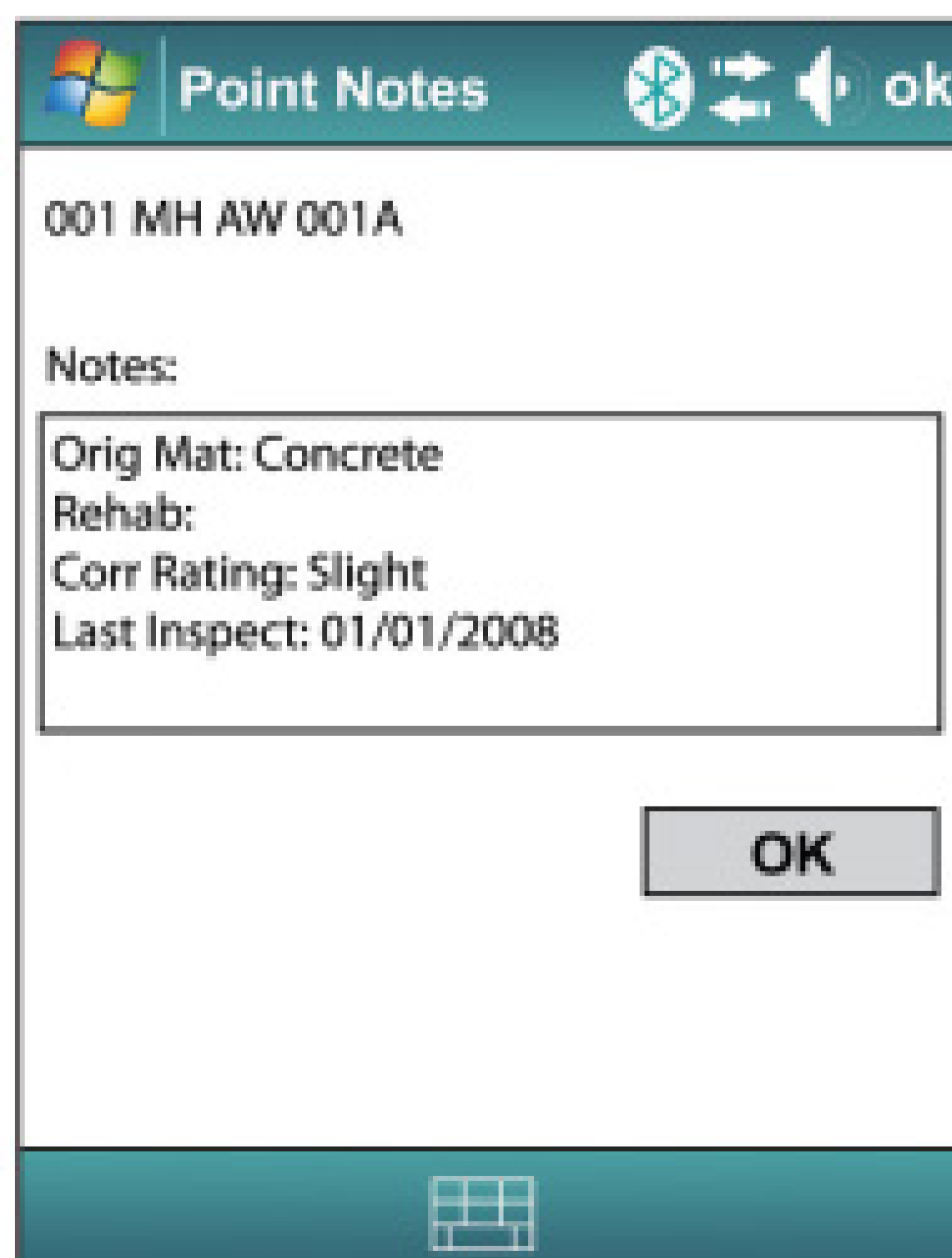


Figure 1. An initial screen for a manhole inspection shows its ID number, original and rehab materials, corrosion rating, and last inspection date.

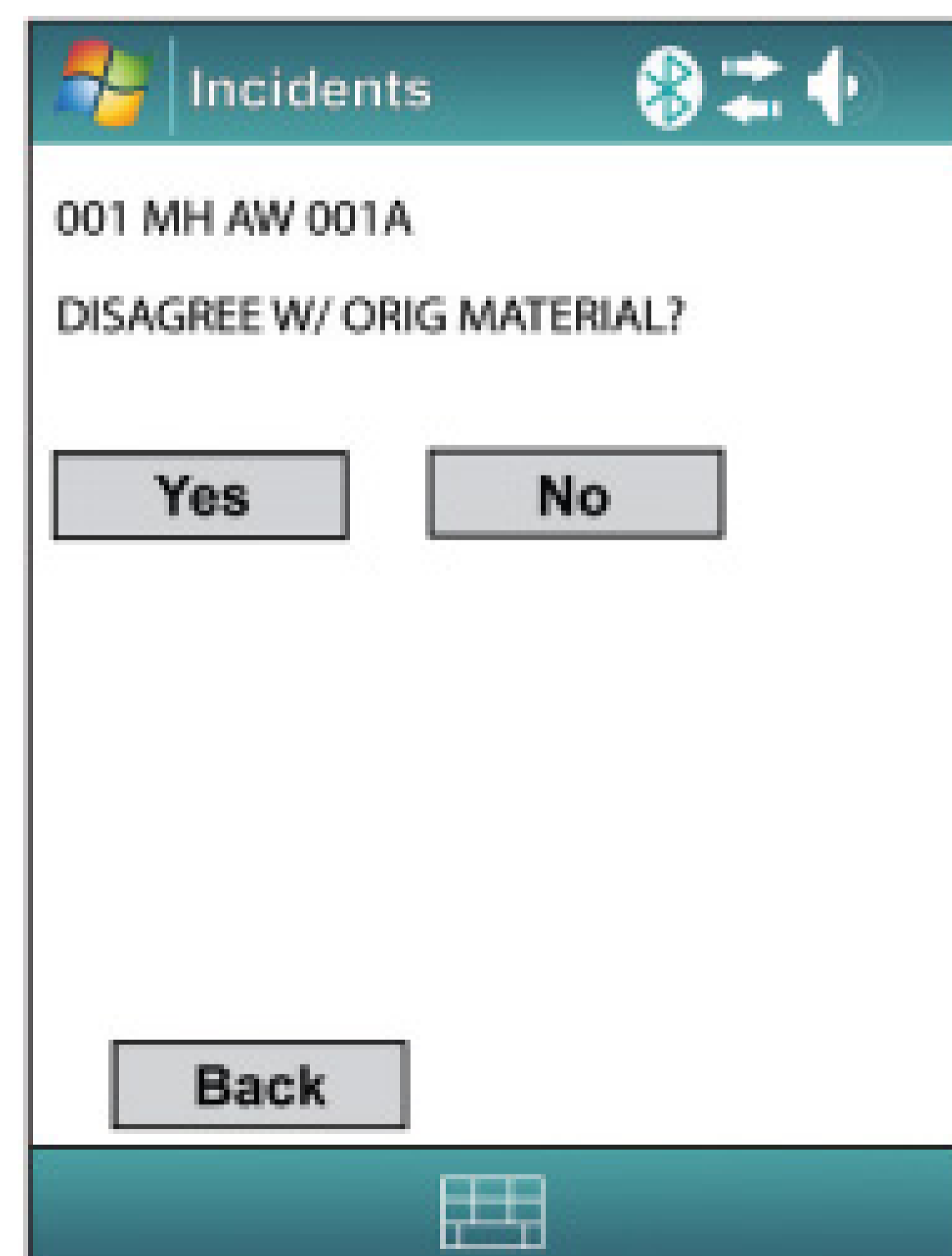


Figure 2. First in a series of programmed questions for a surface inspection of a manhole.

TECHNOLOGY TEST DRIVE

EQUIPMENT:

FlexOps electronic data collection system

DEVELOPER:

FlexSystems LLC,
Lafayette, Colo.
303/684-8303
www.flexsystems.net

LOCATION OF DEMO:

Via Internet

DEMONSTRATED BY:

Steve Sparks, sales engineer;
Tom Echnser, president;
Mark Cowley, vice president

LIST PRICE:

Roughly \$20,000 to \$50,000
(depending on system size and number of PDAs required)



Users record information in electronic form in the field rather than using paper records with data that later must be typed into a computerized system.

and documenting line cleaning. Sales engineer Steve Sparks led the demonstration, assisted by president Tom Echsner and vice president Mark Cowley.

Walk-around

The FlexOps system typically uses Intermec CNS ruggedized PDAs. The devices include both a stylus-operated touch screen and a keypad. The unit measures 7 by 3.5 inches and can be easily hand-carried or stored in a holster.

Data collected on the PDA is uploaded to a FlexSystems database and from there delivered to the community's computerized systems. Upload can be accomplished by way of local docking stations, 802.11 wireless network, or GPRS cell phone.

The data gathering system is set up on the PDA to guide users through a series of standard questions, the vast majority in yes/no or multiple-choice format. "The idea is to make it quick and simple for people in the field to use, with as little writing as possible," Sparks notes.

Questions appear on the screen in sequence with simple check

boxes filled in using the stylus. A Notes function allows users to add free-form comments on their observations using an alpha-numeric keypad that pops up on the screen. Some questions are set up with a default response. Responses that differ from the default then generate automatic exception reports. All transactions are automatically date- and time-stamped.

Operation

In the online demonstration, Sparks brought up an image of the PDA screen and showed how a technician clocks in by entering an ID number. He explained that the community used in this example has organized its manhole inspection and cleaning according to routes, which are selected from a drop-down list. (Assets being checked also can be identified using attached PVC or metalized bar codes coated with Teflon).

Sparks began by selecting a manhole from the drop-down list. A screen opened showing its ID number, its original and rehab materials, its corrosion rating, and the date of its last inspection (Figure 1).

When he touched OK, a screen appeared asking: Perform Surface Inspection? Clicking YES brought up the first in a series of pro-

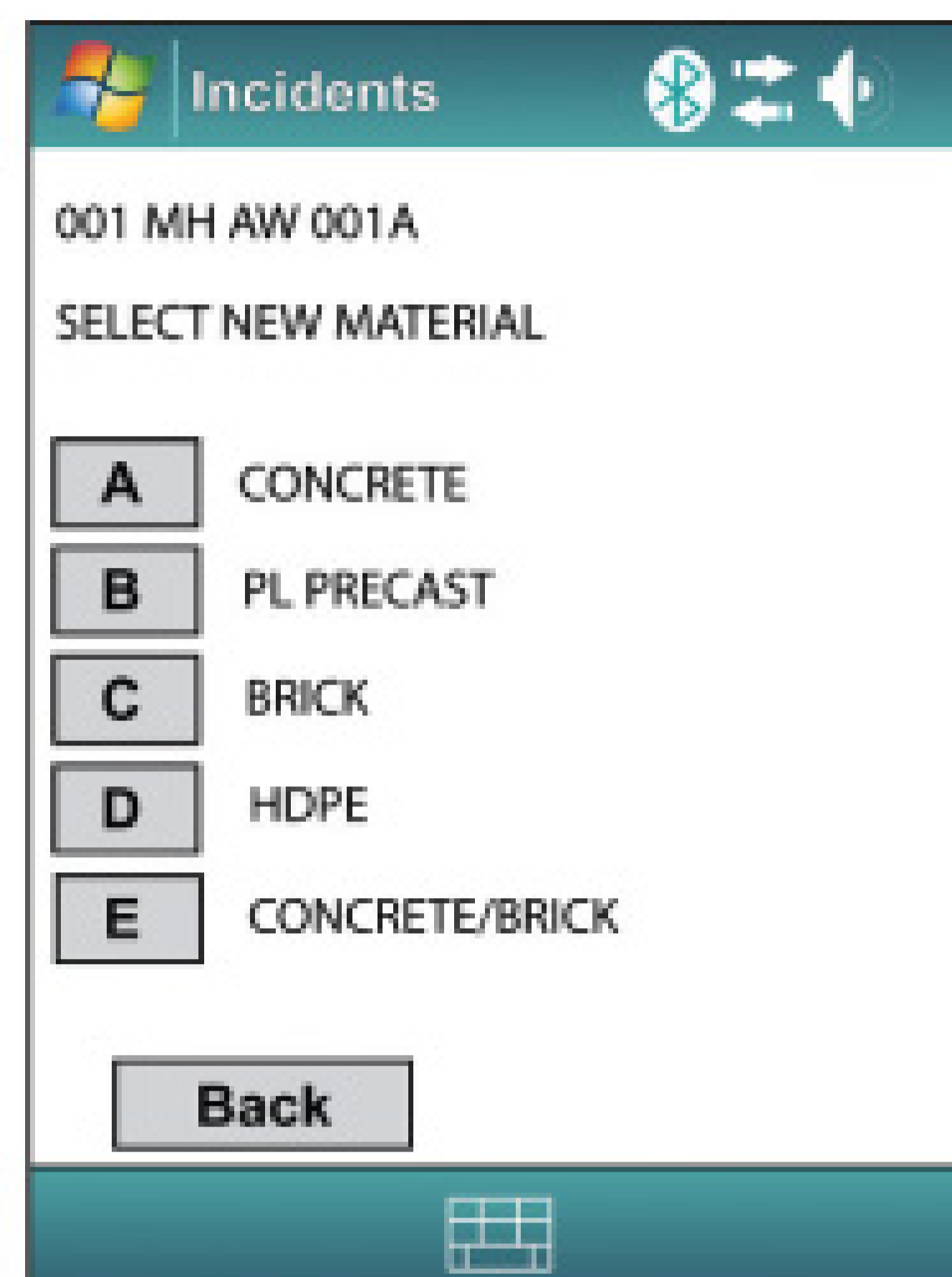


Figure 3. List of original manhole materials.

The FlexOps data collection systems let crews gather information on PDAs and at day's end upload it to a computerized maintenance management system (CMMS) or other asset management software.

grammed questions: Disagree with Original Material? (Figure 2.) Touching YES revealed a list of other materials from which to choose (Figure 3). Sparks selected PL Precast.

On additional screens, Sparks was able to record lining condition (Good, Fair or Poor), evidence of corrosion (Yes or No), level of corrosion (Slight, Moderate, Severe)

for only check-box answers or entry of numbers.

That concluded the inspection, after which the user would select the next manhole from the drop-down list. When Sparks quit the inspection route, the initial screen reappeared, this time with a red check mark in the lower right corner, indicating data in need of uploading (Figure 5). A touch of

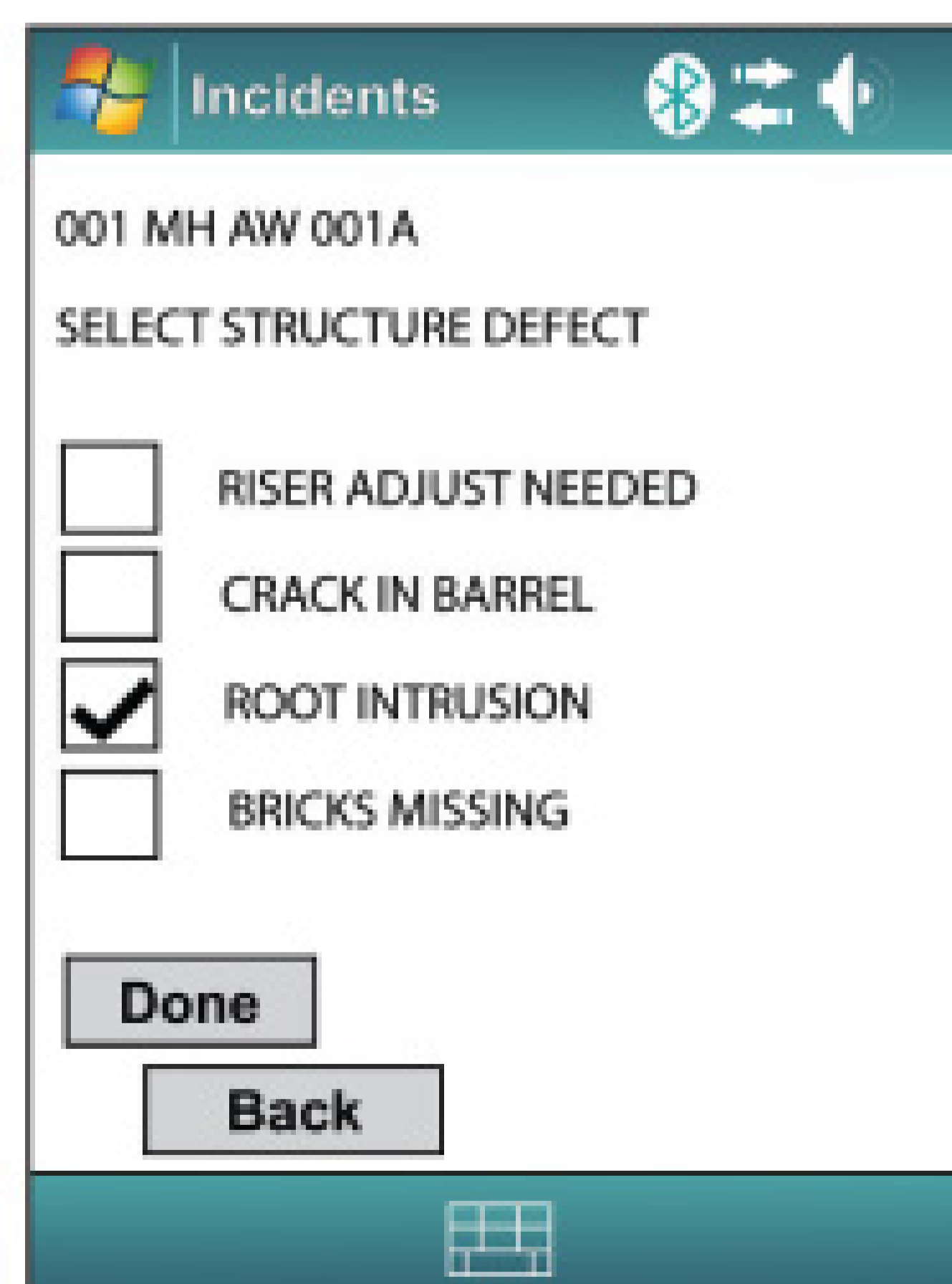


Figure 4. Screen for selecting the nature of manhole structure defects during an inspection.

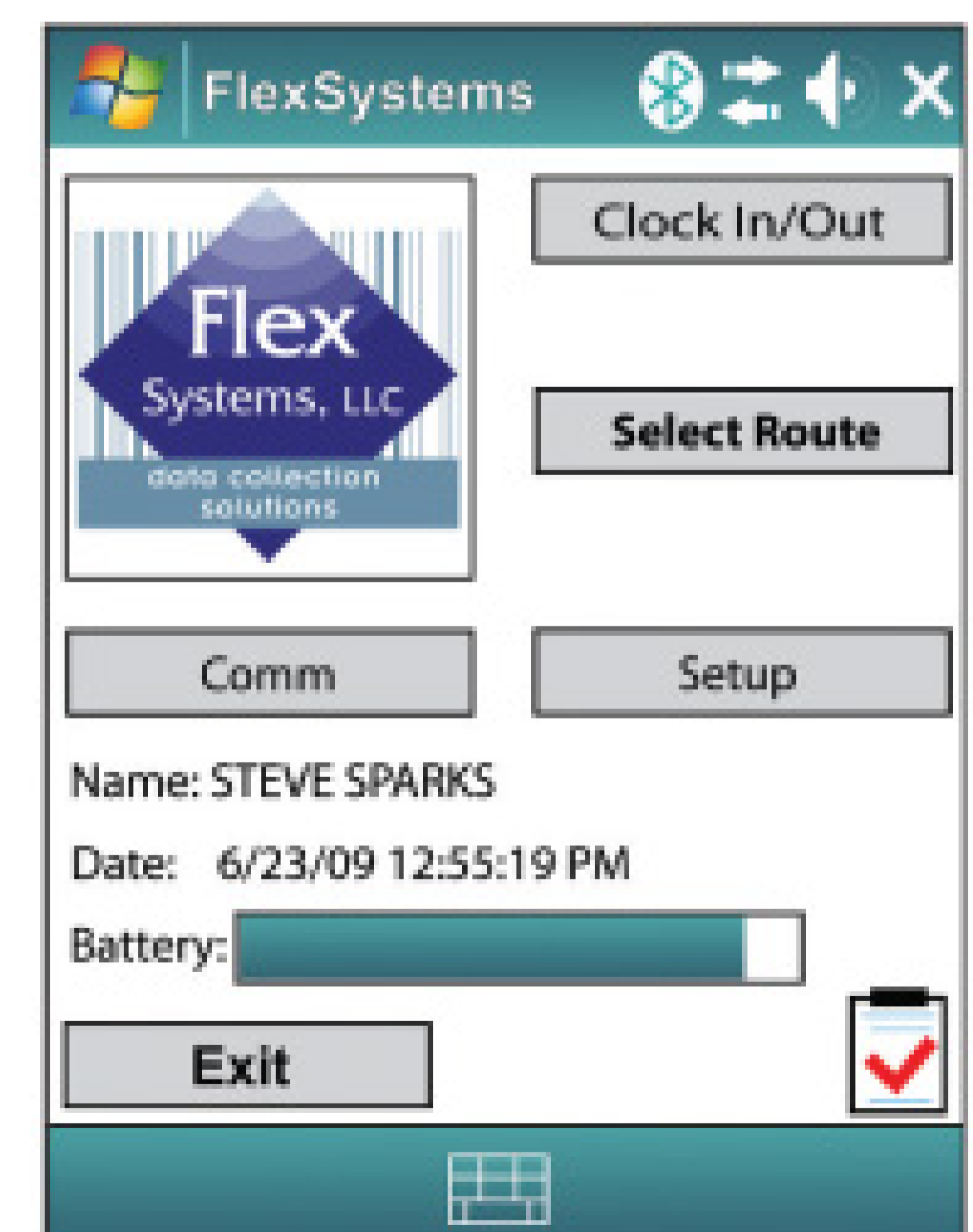


Figure 5. Screen that appears upon quitting an inspection route. Note the red check mark indicating that the PDA contains new data in need of uploading.

“The idea is to make it quick and simple for people in field to use, with as little writing as possible.”

Steve Sparks

the COMM button followed by the START button began the upload process. The check mark disappeared when the upload was done.

Sparks then showed the process managers would use to display shift log reports, exception reports, and other information. The system can be configured to send exception reports automatically to the appropriate parties.

Next, Sparks went through a shorter but similarly configured sets of screens to demonstrate data crews would enter when cleaning sewer main segments. Questions

asked whether material was removed, what materials, level of effort required, and general observations.

Sparks also walked through the process of generating a work order request from the field. That series of screens included selecting the issue (Figure 6), and assigning priority (breaking, routine, emergency, scheduled shutdown, long-term).

Observer comments

The FlexOps system appears to be an effective replacement for paper-based data collection. The technology is easy to use and comes in a robust PDA package that will withstand abuse in the field and perform reliably in adverse conditions.

An advantage of the technology appears to be versatility — it can be used for many purposes beyond the demonstrated manhole inspec-

tions and line cleaning. Other applications include performing inspections and maintenance on equipment in water and wastewater treatment plants and collecting laboratory data. The data can be used to document compliance with state and federal permit requirements and regulations, as it captures records of work done, when, by whom, and the results.

Manufacturer comments

Sparks describes FlexOps as a mobile platform designed to increase workforce productivity and give managers full visibility of what is done in the field, how it is done, and how long it takes.

“With a paper-based system, pages can get wet, damaged or lost,” he says. “You can also end up

“With a paper-based system, pages can get wet, damaged or lost,” he says. “You can also end up with random data scrawled on the page. Then the data entry person has to contact the field people to explain or verify information. That’s very inefficient.”

Steve Sparks

with random data scrawled on the page. Then the data entry person has to contact the field people to explain or verify information. That’s very inefficient, and the field technician may not even recall what he actually wrote about a specific asset several days or weeks ago.”

He observes that in addition to field data collection, the FlexOps system can be used as a standard operating procedures guide for correcting issues or, if necessary, escalating them to the proper party. It also can be used to generate work order requests in the field.

Finally, the PDA can include a field operation and maintenance procedures manual, guiding a technician step by step through processes such as starting pumps at lift stations or making basic repairs on specified equipment.

Sparks notes that pricing depends on variables, such as

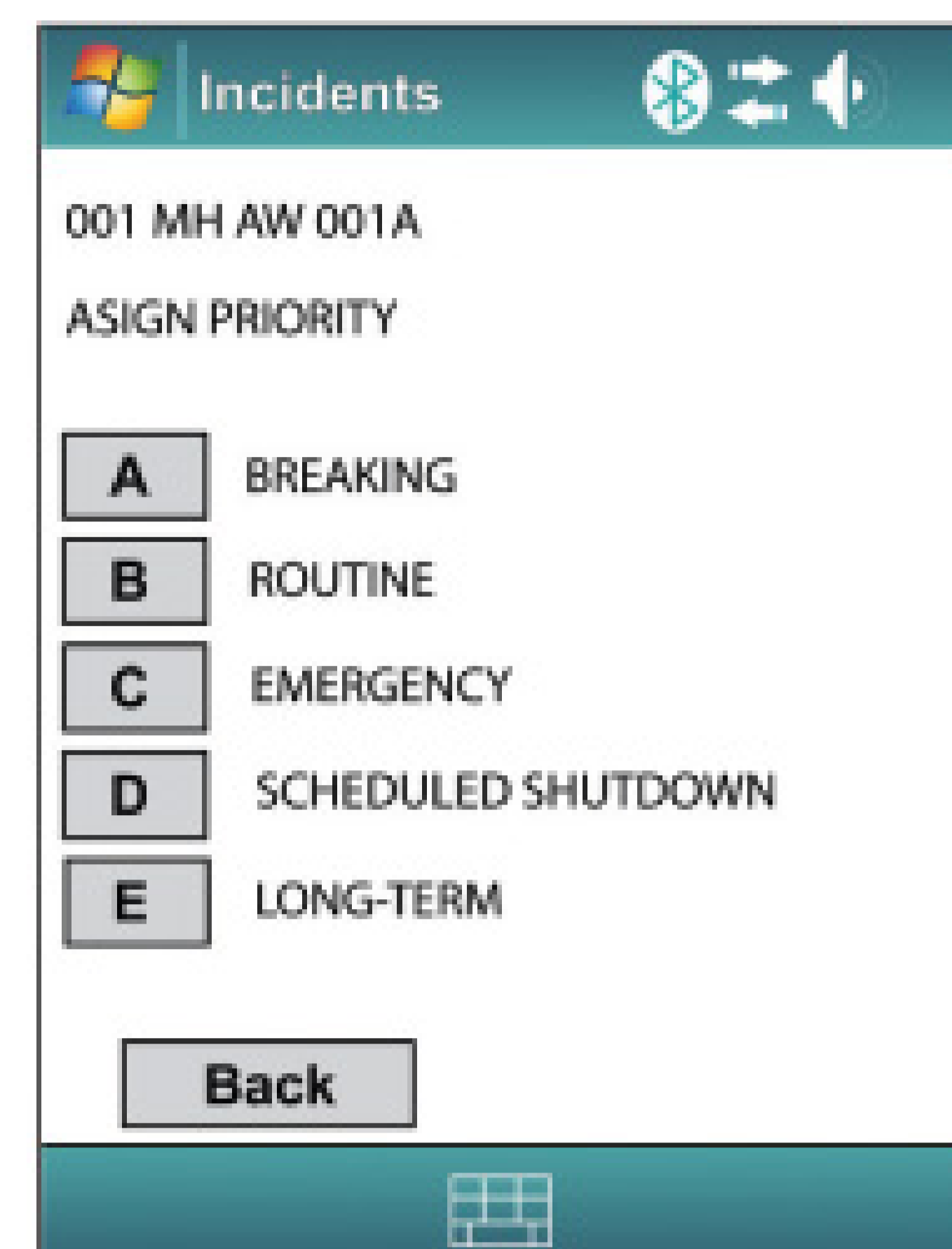


Figure 6. When generating a work order request from the field, the series of screens includes selecting the issue, and assigning priority (breaking, routine, emergency, scheduled shutdown, long-term).

whether the customer uses an Access or SQL database, whether the PDAs will be used wirelessly, and whether custom integration is needed. The quantity and features of the PDAs also affect the price.

“Most installations run from \$20,000 to \$50,000, which usually amounts to about \$250 a month per PDA on a three-year purchase plan,” he says. “That means with as little as a 3 percent productivity improvement, the system will pay for itself quickly.” ♦

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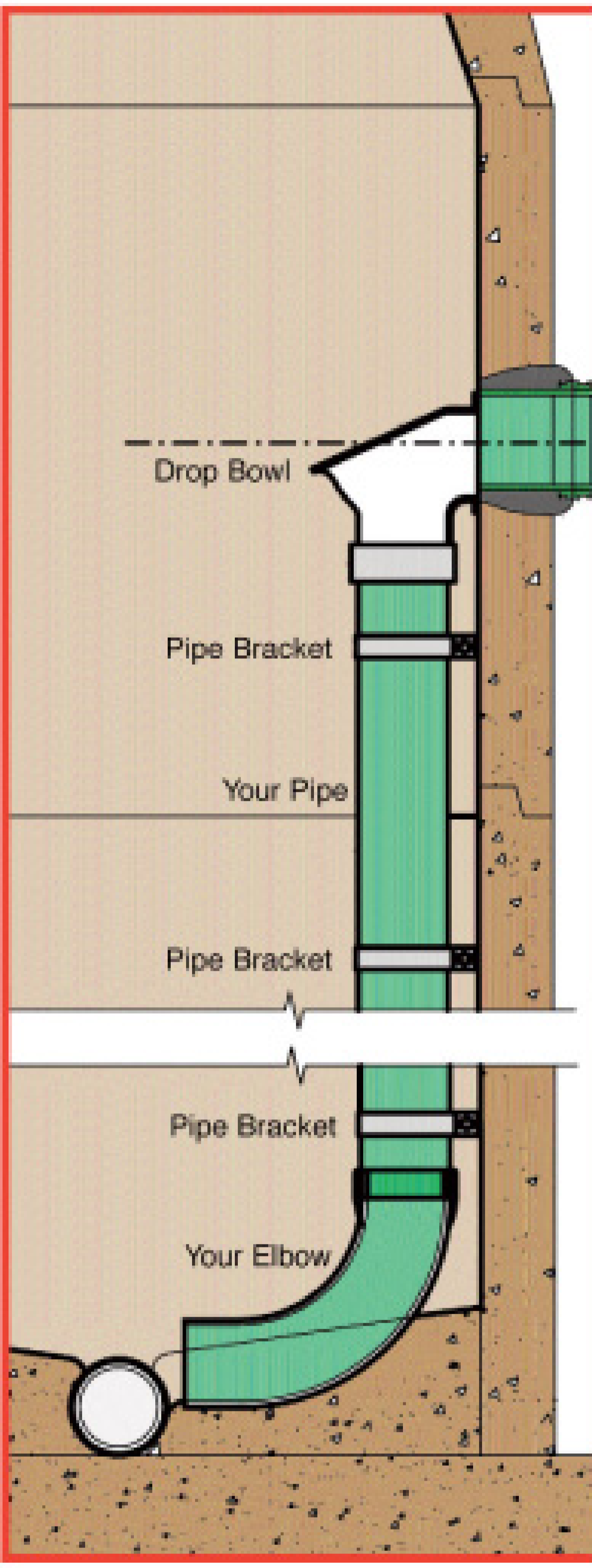
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STIMULATING LIFE

A commitment to continuous learning is a critical element of a successful career in the trenchless technology industry

By Irvin Gemora

It seems every time I pick up a newspaper in the past few months, the word I see is “stimulus,” or some form of it. The word means to inspire, incentivize or motivate.

While this word is often used in relation to an article about our nation’s economy, business or our industry, I think it’s important for everyone to think about what we need to do to stimulate our lives, both personally and professionally.

In many ways, NASSCO is like a stimulus package for the trenchless technology industry. I am fortunate to lead an organization that is committed to the growth of a multibillion-dollar industry. Beyond its membership, NASSCO serves the entire trenchless technology industry through education, train-

ing and ongoing commitment to setting standards that ensure quality results in pipeline rehabilitation.

As a not-for-profit organization, NASSCO reinvests funds into the trenchless industry. For more than three decades now, the organization has grown to service its

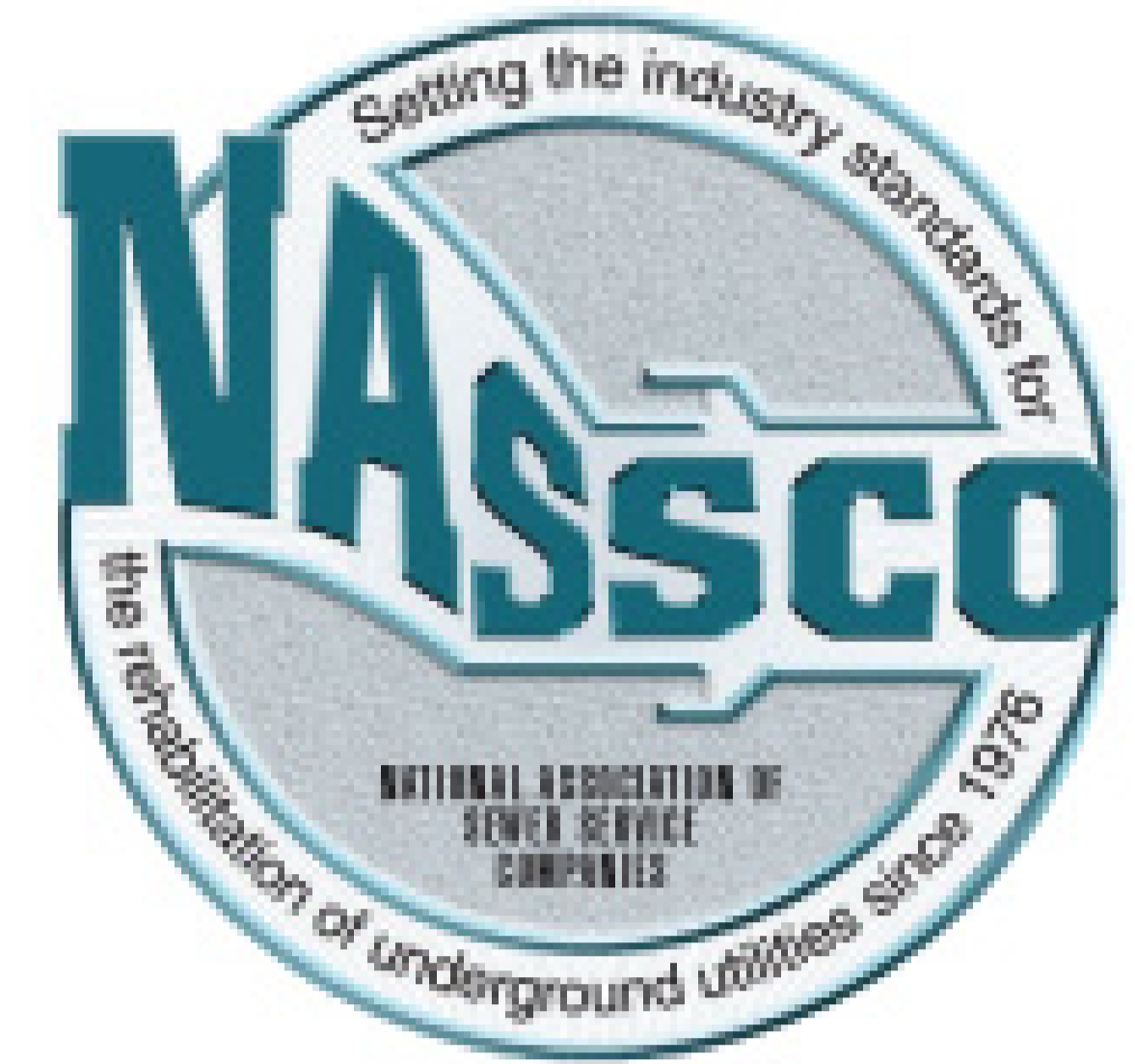
During challenging economic times, it’s understandable that folks forget to reinvest in themselves and their education on their profession. Wherever you are in life — entry level or business owner — it’s important to stimulate your life so that you can achieve the balance needed to make you thrive.

diverse membership and anticipate future needs.

For example, NASSCO most recently committed to hiring a staff engineer, a new full-time posi-

tion in its headquarters office in Owings Mills, Md. This much-needed position means technical director Gerry Muenchmeyer will be able to spend more time building critical training programs, such as the Inspector Training and Certification Program (ITCP).

With more than four decades of expertise in our industry, Gerry brings a wealth of knowledge and commitment to education and training. Introduced last year,



ITCP for CIPP has been growing and is helping train inspectors as well as others in the industry. This knowledge is beneficial to everyone involved in pipeline rehabilitation projects. Gerry will build upon this foundation and introduce ITCP courses for other technologies, such as pipe bursting.

Making a commitment to learning and staying fresh with knowledge of the industry is important in our field. Our industry is relatively new, and the pipes we’re fixing or replacing are only getting older. New technologies come on the market, and it’s our responsibility to stay informed so that we can make sure we employ the best solution for the project at hand.

During challenging economic times, it’s understandable that folks forget to reinvest in themselves and their education on their profession. Wherever you are in life — entry level or business owner — it’s important to stimulate your life so that you can achieve the balance needed to make you thrive.

NASSCO offers many options to help folks throughout their careers and it provides what I think is a key element of success and satisfaction. NASSCO provides key networking opportunities, many of which I’ve seen lead to long-term relationships and even friendships. If you’re not already a member, I invite you to join us at WEFTEC in Orlando, Fla., Oct. 10-14. ♦

Irvin Gemora is executive director of NASSCO. He can be reached at director@nassco.org. The NASSCO headquarters is at 11521 Cronridge Dr., Suite J, Owings Mills, MD 21117.


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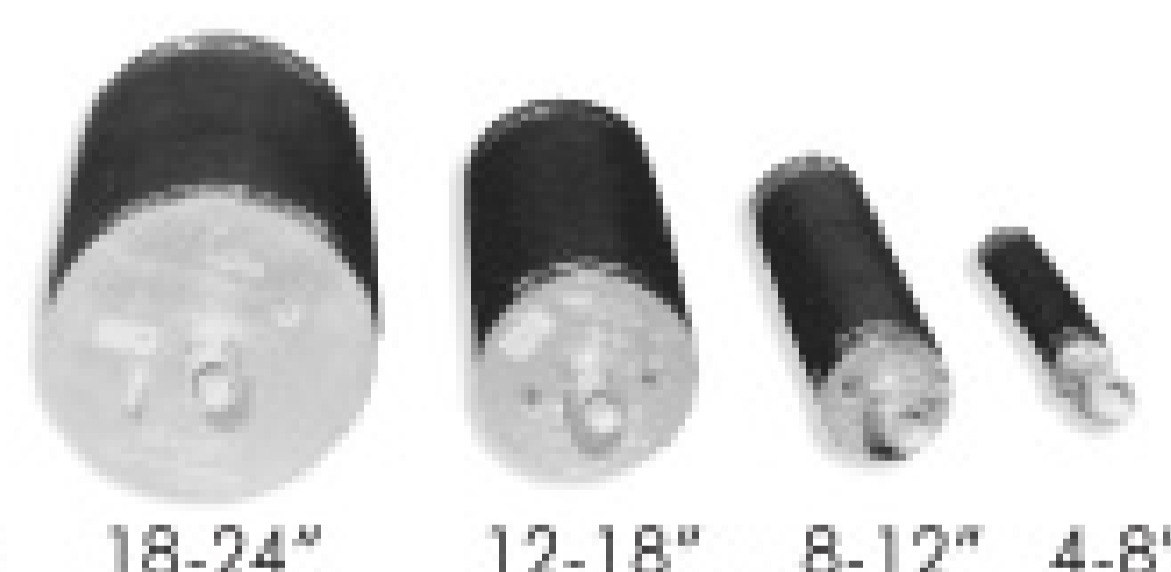
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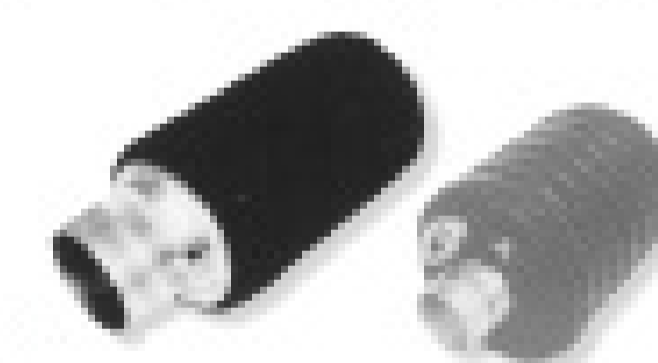
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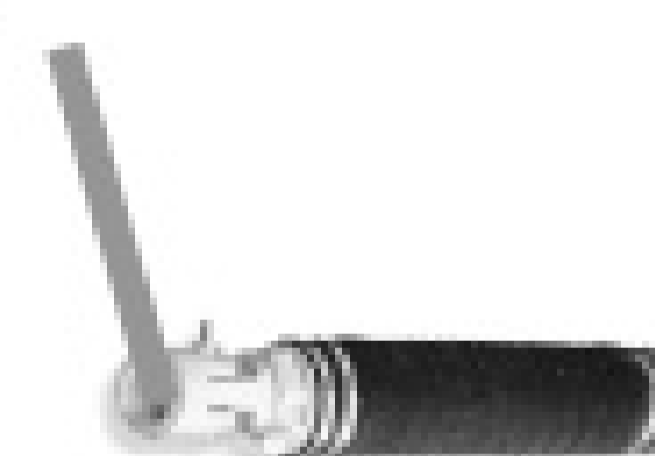
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FIZZLERS OR SIZZLERS?

Your department needs as many employees as possible who are passionate, mentally engaged, and able to drive positive results

By Jay Forte

In today's workplace, employee performance follows the Pareto Principle: 80 percent of employees fizzle, 20 percent sizzle.



Jay Forte

The 80 percent who fizzle are weak and uninterested performers who do just enough not to be fired. The 20 percent who sizzle are passionate and engaged performers, committed to making a difference.

How can any organization be successful if only a small percentage of its people are actively driving service responses and results? The better question is: Why does this happen?

The 20 percenters are people who are well matched to their jobs. They are intellectually connected (they have the right talents and skills) and are emotionally connected (work activates their passions and interests).

Intellectual *and* emotional connection: This combination creates a high-performing employee. It empowers an employee to be confident, committed and engaged, and to think and act like an owner. Attracting, hiring and keeping great-fit employees is critical for managers in any organization — public sector or private.

Intellectual connection (right

talents and skills) is essential. To be productive, an employee must have both the skills and the core talents and thinking required to do the job well. This encourages confidence, competence and commitment. People who work in jobs that do not match their talents and skills feel incapable, and then fizzle out.

Emotional connection (passion) is an even more important component of employee fit and performance. Research presented in the book, *Human Sigma*, by Dr.

perform at nearly the same level: average. Loyal employees (20 percent) perform at significantly higher levels. The reason is the emotional connection they feel with their jobs and managers. Employees who work in jobs that activate their passions, values and interests become emotionally connected to their work and to their performance.

Igniting performance

It is the job of managers to ignite employee performance. You

Intellectual and emotional connection: This combination creates a high-performing employee. It empowers an employee to be confident, committed and engaged and to think and act like an owner. Attracting, hiring and keeping great-fit employees is critical for managers in any organization.

John Fleming and Jim Asplund, shows that a dissatisfied customer and a satisfied customer buy nearly the same volume. This seems contrary to rational thinking, but their studies prove it to be true.

However, a loyal customer buys significantly more than a merely satisfied customer. The difference between the satisfied and loyal customers is that the loyal customer is *emotionally connected* to the brand, product or organization. This emotional connection makes all the difference.

The same principle follows with employees. Satisfied and unhappy employees (80 percent)

do this by ensuring an intellectual connection and an emotional connection — that is the formula for employee loyalty.

So, let's see it in practice. Here are several employee performance or attitude problems that you can address by reconnecting the employee intellectually and emotionally. Review your employees and determine who is an 80 percenter, then create a plan for moving that person to 20-percent performance.

Performance problems — set 1:

- Employees constantly threaten to quit, and criticize or blame others.

We invite readers to offer ideas for this regular column, designed to help municipal and utility managers deal with day-to-day people issues like motivation, team building, recognition and interpersonal relationships. Feel free to share your secrets for building and maintaining a cohesive, productive team. Or ask a question about a specific issue on which you would like advice. Call editor Ted Rulseh at 800/257-7222, or e-mail editor@mswmag.com.

- Employees can't meet basic job requirements and continually miss deadlines.
- Employees do as little as possible and show no real effort.
- Employees need significantly more praise, affirmation and attention.
- Employees need constant instruction, guidance and hand-holding.

If you see these symptoms in your workplace, your people do not feel capable or confident in their work. Consider reconnecting them intellectually by assessing their talents and realigning them to jobs that provide a better fit.

Use a talent assessment (there are many online) to identify natural strengths and abilities. Employees whose talents are more social fit well in roles that put them in front of people. Those who are more analytical are more comfortable with details and procedures.

People who like to be in charge are more effective in leadership and solo-performance roles. Those who have strong supportive talents are more effective in management, team and collaborative roles. Knowing your people's talents is the first step in matching the person to the job. Fit is critical in activating that intellectual connection.

Performance problems — set 2:

- Employees show little or no passion in their work, workplace or team.
- Employees are constantly unhappy, critical or negative.
- Employees show little or no

enthusiasm; they are visibly bored.

- Employees seem detached and disconnected; they do only the minimum and need constant supervision.

If you see these symptoms in your workplace, your employees are not finding an emotional connection to their work. Reconnect them emotionally by customizing their jobs around their talents, values and interests, and in things that are meaningful to your organization.

For example, a customer service employee who also loves to write may feel more emotionally connected if allowed to work on a customer newsletter or write public information materials. An employee who is also great at organizing may feel more emotionally connected

if able to plan an open house or technology demonstration.

A workplace of sizzlers has employees who are connected intellectually and emotionally to their work. They become maximum performers because they feel capable, confident and passionate about what they do. Focus on these two components to revive any employee to passionate-performance status. Your results depend on it. ♦

Jay Forte is a performance consultant, speaker and workplace coach and author of *Fire Up! Your Employees and Smoke Your Competition*. As president of Humanetrics LLC, he provides talent-based hiring and management training. Visit www.HumanetricsLLC.com or call 401/338-3505.



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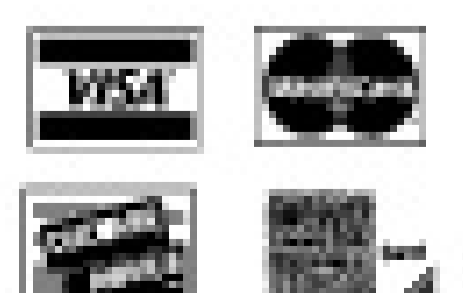
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Product Spotlight

Compact Inspection System Provides High Flexibility

By Ken Wysocky

The new camera inspection control system from Cobra Technologies is designed to combine portability with the full functionality of a truck-mounted system. It is compatible with many other manufacturers' cameras.

"This lightweight unit is a universal controller," says Alan Grant, CEO. "It can plug into any single- or multi-conductor camera system, giving operators a lot of flexibility." The 45-pound unit can be installed in a water- and impact-resistant case 22- by 19- by 14-inches deep.

The system includes a solid-state, dual-core computer data logger, CD/DVD writer, crawler control, and pan-tilt-zoom camera control. The unit mounts on vehicles from pickup trucks to ATVs, allowing contractors to reach otherwise inaccessible places.

The data logger's solid-state componentry has no moving parts, making the unit durable and less prone to hard-drive failures from rough handling. The control system comes with a 10-inch touch screen that is easy to view, even in direct sunlight.

"That solves a major complaint from customers," Grant says. "There's little point in inspecting a pipe if you can't see what you're doing."

A double-click of a finger on the screen converts it to video, and another double-click reverts it to the data screen, eliminating the need for two monitors. Standard features include a keyboard and electronic footage display, with a waterproof keyboard optional. The console operates on 110 VAC power. For information, call 800/443-3761 or visit www.cobratec.com.



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Camera inspection control system from Cobra Technologies

Envirosight Introduces SuperVision Lateral Launch System

The SuperVision SAT lateral launch system from Envirosight LLC can crawl 300 feet down mainlines 6 inches and larger and insert its camera as far as 100 feet into laterals 3.5 inches and larger. The auto-leveling color camera with shadowless illumination pans 360 degrees and tilts 90 degrees to view both sidewall detail and distant targets. Its steerable six-wheel drive helps the system maneuver to troublesome launch points. Auxiliary lamps and a backward-viewing camera enhance visibility in both directions. An integral sonde transmits at multiple frequencies for location from above. Force-sensing rollers prevent damage to the pushrod. 866/936-8476; www.envirosight.com.



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RIDGID Offers microDrain Inspection System

The SeeSnake microDrain inspection system from RIDGID is 19 inches high, 4 1/2 inches wide and has a 30-foot flexible cable with a 22-millimeter (0.87-inch) diameter camera head for tight turns and small P traps. 800/769-7743; www.ridgid.com.



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PumpBiz Introduces PortaPump

PortaPump from PumpBiz International is designed to remove standing water from golf course bunkers and fairways, flooded parking lots and sidewalks or drain water from pits that need to be excavated due to pipe breakage or root damage. Able to pump up to 2,000 gallons per hour, the one-person unit is powered by a Honda four-stroke 35-cc engine. A larger unit, able to pump up to 16,800 gallons per hour, is available. 800/786-7249; www.pumpbiz.com.

CUES Introduces K2 Wireless CCTV Inspection Rig

The self-contained K2 Summit Wireless Base Station from CUES Inc. is mounted in a compact, lightweight, waterproof enclosure that can fit into an ATV, van, trailer or pickup truck. A hand-held wireless control operates all CUES zoom-pan-and-tilt cameras, transporters and reels for 4-inch to 200-inch pipe inspection. The system includes a heavy-duty reel with rotating side load feed-out assembly, optional automatic payout and up to 1,500 feet of video cable. Camera options include a built-in inclinometer, sonde or laser diode system. 800/327-7791; www.cuesinc.com.



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Clarification

The Product Spotlight article in the July issue of *Municipal Sewer & Water* included one mention of heat as the curing method for the **Blue-Tek cured-in-place pipe lining system from Reline America Inc.** As stated elsewhere in the same article, the liner is cured by ultraviolet (UV) light. We regret this error. Reline America can be reached at 866/998-0808 or www.relineamerica.com.

Vermeer Introduces D9x13 Compact Drill

The D9x13 Series II Navigator horizontal directional drill from



Vermeer Corp. is designed for confined jobsites and areas where surface disturbance, such as residential and commercial lawns, is a concern. The drill can carry up to 300 feet of rod, while the two-speed rotational gear-box enables the operator to increase backreaming speed when conditions allow. The unit is 35.5 inches wide (an extendable-track feature adds 6.5 inches) and has 5.5 psi of ground pressure. The operator's station includes dual joysticks, digital display screen, drilling fluid volume recorder and rod cycle counter. The drill is powered by a 47-hp Kubota turbocharged diesel engine and produces 9,000 pounds of thrust/pullback force and 1,300 foot pounds of rotational torque. 641/628-3141; www.vermeer.com. ♦



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