AGENDA
CITY OF CENTRALIA, MISSOURI
Board of Aldermen
Public Works and Public Utilities Committee

Monday, October 1, 2012
7:00P. M.
City Hall Council Chambers

I. ROLL CALL
II. PLEDGE OF ALLEGIANCE
III. COMMENTS FROM CITIZENS
IV. DISCUSSIONS WITH ENGINEER – SWITZLER/JEFFERSON DESIGN
V. ELECTRIC DEPARTMENT
    A. Activity Report
    B. Power Pump Primer
    C. Other
VI. WATER AND SEWER DEPARTMENT
    A. Activity Report
    B. Distribution Material
    C. Replacement Pickup
    D. Other
VII. PUBLIC WORKS
    A. Activity Report
    B. Streets
    C. Sanitation
    D. Stormsewer
    E. Other
        1. Paint for Wall Sealing
VIII. GIS System
IX. AS MAY ARISE
IX. ADJOURN

\LYNN\ARCIVE12\AGENDA1.1210

ELECTRIC DEPT.
SEPTEMBER 2012 ACTIVITY REPORT

1. Hauled brush/grass as necessary from North St brush site
2. Mowed and weed eat at Wilson St Sub as necessary
3. Trimmed trees: 11 Mayes Meadows, Sims St from Jefferson to Central for street clearance, 716 E. South St, 111 E. Gano Chance, 222 S. Hickman, 229 S. Jefferson, 222 S. Barr, 718 Rodemyre
4. Tree removals: Hickman/Switzler, 457 Adams St, S. Jefferson, 222 S. Barr, 223 S. Barr, 815 S. Allen (2), 418 S. Jefferson, 616 S. Allen, 147 W. Burnett (2)
5. Repaired streetlights: Rodney Griffin/Singleton, Adams/Mystic (2), Mystic Dr. (2), Westwind/Bryson, Lakeview/Columbia, Rodemyre/Howard Burton
6. Repaired security lights: CHS parking lot, Street Department shop
7. Finished repairs to South Circuit at pad mount switch near Centralia Public Library and put circuit back in service
8. Repaired scoreboard wiring at Bicentennial Park East Field
9. Replaced primary metering equipment at CHS football field, replaced dead meter/transponder
10. First Wednesday of month tornado siren test, all six units worked
11. Repaired underground streetlight circuit feeding light at Howard Burton/Hwy 22, wired faulted and burnt in two, repaired conduit and pulled in new wire
12. Repaired underground streetlight circuit feeding lights at Hwy 124/Hwy CC intersection, wire faulted, replaced one span of wire
13. Replaced transformer feeding computer tech center (old Ag) building at CHS, relocated transformer to pole adjacent to driveway
14. Permanently removed service drop at customer's request feeding detached garage at 226 S. Denton
15. Pulled wire and connected new underground service at 617 Head St, removed overhead service drop
16. Added new lift pole at 304 W. Singleton to route line around property at 308 W. Singleton, hung transformer to feed 304
17. Set new guy pole behind 616 Sappington, transferred all lines, removed old pole
18. Outage: 814 S. Rollins, removed limb from primary line, re-fused circuit
19. Installed PA speakers at Bicentennial Park West Field
20. Changed the feed to four transformers in the alley between Green/Central from C phase to A phase to help balance the South Circuit
21. Replaced six 3-phase meter transponders
22. Replaced 18 single-phase residential meters
23. Started seeding areas at Miles/Leabrook
24. Installed hour meter on pump control at NW lagoons
25. Installed anchor on gate post at NE lagoons
26. Strung and connected new overhead service at 704 Sappington

October 1, 2012

Quote for power primer pump @ Sims Farms

Nebraska Irrigation - $2266.07 each

Mike Remley Supply - $2995.00

Power Primers

46046

Power Primers		
NI Part #	**Model**	**Description**
46046	PP35AC	1/2 HP, 120 v AC
46048	PP35DC	12 v DC

ACTIVITY REPORT
WATER DEPARTMENT
September 2012

- Repaired leak at #4 Leabrook on water service connection
- Repaired leaking tap in main 222 Adams
- Repaired leak on fire hydrant in front of Chance's on Howard Burton
- Repaired leak on main at #16 Mayes Meadows
- Repaired leak on fire hydrant lead at Switzler / Howard Burton
- Repaired leak at 420 Pratt and updated service
- Updated service connection and meter jar at 606 Rodemeyer
- Flushed sewer main and ran camera to find tap for John Oliver at house being demolished
- Called in to fix leak at 814 Shawn Court – gasket
- Called in to shut off water at Southgate Apartments due to leak
- Assisted resident at 109 N. Hickman find leak on their side
- Replaced meter lid and radio at 605 S. Howard Burton
- Assisted street dept. lay block at Miles Street ditch
- Found leak at 601 N. Allen and notified resident
- Exercised valves around Chance's on Howard Burton to try and shut off water
- Called in to check sewer at Creston Court on S. Columbia
- Met with Flynn on leaking seal on high service pump #2
- Ran camera in sewer main at Creston Court to help identify where their service's tied in
- Assisted contractor avoid utilities on S. Columbia by spotting main
- Found infiltration holes on Sappington and Bruton and ran dye through them
- Inspected sewer repair at Sappington – Prenger
- Inspected sewer repair (capping) at Oliver's
- Met with resident at 625 S. Jefferson to show them their leak
- Met with resident at 915 S. Jefferson to identify their leak
- Worked on lime pump (pto driven pump)
- Used vac trailer to spot main between Saddle Saloon and new location for Forrest Chevrolet to avoid conflict with sewer force main
- Flushed & cameraed sewer main between Jenkins & Bradford
- Gave tour at Water Plant to 5th Grade Classes
- 19 disconnects for non-payment
- 35 readings for office use

CITY OF CENTRALIA

COBBLESTONE ESTATES

DISTRIBUTION BID

- 1000' OF 8" C900 PIPE
- 400' OF 6" C900 PIPE
- 8 – 8" MJ 22 DEGREE ELBOWS
- 2 – 8" MJ TEES / ACCESSORIES
- 2 – 8' X 6" MJ TEES / ACCESSORIES
- 2 – 8" MJ GATE VALVES
- 4 – 6" MJ GATE VALVES
- 12 – 6" FOSTER ADAPTERS
- 12 – 8" FOSTER ADAPTERS
- 20 – 8" MEGA LUGS FOR C900
- 20 – 6" MEGA LUGS FOR C900
- 10 – TOP HATS FOR WATER VALVES, SCH. 40 PIPE SIZE
- 4 – ROLLS OF TRACING WIRE, 12 GUAGE- 500' ROLL
- 20 – ¾" CC THREAD CORP STOPS
- 10 – 15" ¾" X 5/8" METER YOKES- COMPRESSSION BY MULTI-PURPOSE
- 5 – 6" X ¾" TAPPING SADDLES FOR C900
- 10 – 8" X ¾" TAPPING SADDLES FOR C900
- 5 – 4" X ¾" TAPPING SADDLES FOR AC PIPE
- 5 - 6" X ¾" TAPPING SADDLES FOR AC PIPE
- 5 - 8" X ¾" TAPPING SADDLES FOR AC PIPE

Water & Sewer Supply = $ 19,242.95

H.D. Supply Waterworks = $ 20,691.04

CITY OF CENTRALIA

COBBLESTONE ESTATES

DISTRIBUTION BID

3 – Two-Way, 6" Shoe, 4 ½' Bury Fire Hydrants

Water & Sewer Supply = $ 1,455.10 / = $ 4,365.30

H.D. Supply Waterworks = $ 1,434.22 / = $ 4,302.66

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573/682-2146 Phone-573/682-5371 Fax
www.forrestchevrolet.com

Bid to order 1 New 2013 Chevrolet Silverado ½ 2wd Extended Cab Pickup with the minimum of these following options:

5.3 liter V8 Gas Engine
3.08 Standard Rear Axle Ratio
P245/70R17 All Season Radial Tires
Left/Right Exterior Mirrors
Vinyl Seats
8' Standard Pickup Bed
Tilt Wheel Steering
4-Wheel Anti-Lock Braking (ABS)
Tow Pkg, including Engine Oil Cooler, Transmission Cooler, Frame Mount Hitch with 2" Receiver4 Pin Wiring Installed Plus Wiring Harness for 7 Pin.
6 Speed Automatic Transmission
Air Conditioning
Full Size Spare Tire
Rubber Floor Covering
6,900 GVWR
AM/FM Stereo Radio
Cruise Control
Locking Differential Rear Axle
Summit White Exterior

Cash Purchase Price $21,549.22

Forrest Chevrolet, Inc.

Ford

Missouri Department of Transportation
Bid Tabulation of Request 3-110901WB Light Duty Vehicles
Multiple Award
**See each Bid Tab Item Page to see what options apply to that item.

ITEM # 8 - New standard equipped 2012 Half-Ton 4 X 2 Extended Cab Pickup

All units must contain the following options:

Standard ~~3.7L~~ 8 cylinder gas engine 5.0L
Manufacturer's standard rear end axle ratio
Automatic transmission
Air conditioning
LH & RH exterior mirrors
Tires:(4) manufacturer's standard all season, plus full size spare and wheel
Rubber flooring
Minimum GVWR 6,000 LB
Long Bed – 8ft.
Brakes 4-wheel anti-lock braking system (ABS)
Speed control and tilt wheel
Vinyl seats

Optional Equipment

Option 8A:	**Towing Package: Manufacturer's Standard to include heavy duty charging, engine oil, and transmission cooling, Class III frame hitch/receiver and 4 pin wiring installed plus wirirng harness for 7 pin.**
Option 8B:	**Exterior color to be Federal Standard #595B "Highway Yellow"**
Option 8C:	**Alternate larger V8 gas engine**
Option 8D:	**Alternate smaller V6 gas engine**
Option 8E:	**2 Full-length factory cab steps or running boards (One on Drivers side, one on Passenger side)**
Option 8F:	**Power Windows and Door Locks**
Option 8G:	**6 Foot bed in lieu of 8-foot bed**
Option 8H:	**Optional Rear Axle Ratio**
Option 8I:	**Limited Slip Rear Axle Axle Ratio**
Option 8J	**LT. 6 ply. tires in lieu of 4 ply.standard tires**
Option 8K	**Trailer type exterior mirrors in lieu of standard**

Mike Forsee

Mike-
It will be a 2013 model.
Must order before 9/29.

$18,524

Thanks,
Kelly

Ford

Ford

~~REGULAR CAB~~ / SUPERCAB / ~~SUPERCREW~~ – XL SERIES

STANDARD EQUIPMENT

MECHANICAL

- 3.7L V6 Engine
- 5.0L V8 Engine (157" WB, 163" WB and SuperCrew 4x4 only)
- 4x4 w/Neutral Towing Capability
- AdvanceTrac® w/RSC® (Roll Stability Control™)
- Axle, Front – Long-Spindle Double-Wishbone, Coil-Over-Shock IFS
- Battery – Maintenance-Free 78-AH (750CCA)
- Brakes – 4-Wheel Disc w/ABS
- Electronic 6-speed Automatic Transmission w/Tow/Haul Mode
- Hill Start Assist
- Jack – 2-Ton
- Parking Brake – Foot-Operated, Hand-Release
- Shock Absorbers, Gas
- Spare Tire Carrier – Rear Under Frame, Winch-Type w/Safety Catch
- Springs, Front – Coil
- Springs, Rear – Leaf, Two-Stage Variable Rate
- Steering – Power, Rack & Pinion
- Trailer Sway Control

EXTERIOR

- Argent Front & Rear Step Bumpers
- Black "Bar Style" Grille Insert
- Black Front Bumper Fascia
- Black Grille Surround
- Halogen Headlamps
- Cargo Box Tie-Down Hooks (four)
- Cargo Lamp – integrated w/high mount stop light
- Easy Fuel® Capless Fuel-Filler
- Integrated Key Transmitter (SuperCrew)
- Interval Wipers
- Manual Side Exterior Mirrors (Regular Cab & SuperCab)
- Power Side Exterior Mirrors (SuperCrew)
- Spare Tire/Wheel Lock
- Stone Cuffs, Front & Rear
- Tailgate – removable w/key lock & lift assist
- Tires – P235/75R17 BSW A/T Regular Cab and SuperCab; P255/65R17 OWL A/S 4x2 SuperCrew; P265/70R17 OWL A/T 4x4 SuperCrew
- Wheels – 17" Grey Styled Steel

$18,524
w/ options 8A & 8I.
2013 Model

INTERIOR/COMFORT

- Airbags
  - Safety Canopy® Side-Curtain Airbags
  - Dual Stage Front-Seat-Mounted Side Airbags
- 1st Row Manual Windows (Regular Cab and SuperCab)
- 2nd Row Fixed Windows (SuperCab)
- Air Conditioning Registers – Black Ring w/Black Vanes
- AM/FM Stereo/Clock
- Black Urethane Steering Wheel
- Black Vinyl Floor Covering
- Dome Light
- Display Center
- Fuel Gauge, Voltmeter, Oil Pressure, Engine Coolant Temp, Speedometer, Tachometer & Odometer
- Grab Handles
  - Front – A-Pillar, Passenger Side
  - Rear – B-Pillar (SuperCrew)
- Horn – Dual-Note
- Overhead Console (SuperCrew)
- Manual Air Conditioning
- Perimeter Alarm (SuperCrew)
- Powerpoint – Front
- Power Locks (SuperCrew)
- Power Windows (SuperCrew)
- Rear-Window w/Fixed Glass and Solar Tint
- Rearview Mirror, Day/Night
- Scuff Plate, Driver and Front-Passenger Doors
- SecuriLock® Anti-Theft Ignition (PATS)
- SOS Post-Crash Alert System™
- Seat Belts, ARS. Manual Lap/Shoulder Belts w/Height Adjusters, Pretensioners & Energy Mgmt Retractors on Outside Front Positions. Includes Autolock Features for Child Seats
- Tilt Steering Wheel
- Tire Pressure Monitoring System (TPMS)
- Vinyl 40/20/40 Front-Seat
- Visors w/Driver Side Strap & Passenger-Side Mirror

FUEL TANKS

- 26-Gallon
  - Regular Cab 126" WB 4x2/4x4
  - Regular Cab 145" WB 4x2
  - SuperCab 145" WB 4x2
  - SuperCab 163" WB 4x2
  - SuperCrew 145" WB 4x2
  - SuperCrew 157" WB 4x2
- 36-Gallon
  - Regular Cab 145" WB 4x4
  - SuperCab 145" WB 4x4
  - SuperCab 163" WB 4x4
  - SuperCrew 145" WB 4x4
  - SuperCrew 157" WB 4x4
- 3.5L EcoBoost® (Fuel Tank 4x2 – 26 gal, 4x4 – 36 gal)

★ = New for this model year

STREET & SANITATION DEPARTMENT
SEPTEMBER 2012 ACTIVITY REPORT

- Daily trash routes
- Weekly cardboard and bi-weekly curbside recycling routes
- Had 1 double trash route this month
- Mowed and weedeated around town
- Spent several days hauling off piles of tree limbs around town
- Replaced pole on street sign at Jefferson/Poage that had been hit
- Repaired a suck hole on Denton st.
- Hauled off 1 load of recycling to Civic Recycling in Columbia
- Hauled off 4 loads of plastic to Ryan Ent. in Millersburg and hauled back 4 loads of rock
- Hauled off brush at the drop off site to the landfill 2 times this month
- Added rock and smoothed up several shoulders
- Cut up and hauled off tree limb that fell and was blocking street
- Patched a few potholes
- Straightened sign post that was hit at Denton/Bruton
- Hauled off debris pile at street barn lot to the landfill
- Spent 3 days helping the Special Road District do some wedging on JJ and on Gano
- Spent 2 days doing some wedging on city streets (Jefferson, Gano, Adams, Lakeview, Southgate, Barnes, Railroad)
- Replaced street name signs at Orchard/Booth, and Brairwood/Gano
- Swept streets around town
- Cleaned up the street barn lot
- Trimmed some tree limbs hanging into street
- Put up stop sign at Rollins/Bruton after sidewalk replacement
- Spent 9 days building walls, backfilling, and removing and hauling off several trees on Miles Ditch project (moved 57 pallets of block) with help from the water and electric crews
- Tore out and formed and poured section of sidewalk on s. Hickman that was broke
- Formed and poured 10ft of sidewalk on s. Columbia at Tidball to connect sidewalk to street

WATERPROOFING PAINT BIDS

Business	Qty	Price	Total
1. Sherwin Williams	125gal	$29.95/gal	$3743.75
2. LaCrosse Lumber	125gal	$27.73	$3466.25

GIS HELPS CITY OF TRENTON MAP THE FUTURE OF THEIR UTILITIES

by Katie Shepherd and Kate Bridges

As communities grow, infrastructure ages and technology does not waiver from the frontlines of data management and effective reporting, it is essential that our nation's cities implement and embrace new and more efficient methods to manage and maintain their utility infrastructure, assets - infrastructure that removes waste from our homes, ensures safe drinking water, and provides millions of miles of electricity. Whether for major metropolitan areas with populations exceeding 100,000 or for small agricultural-based communities such as the city of Trenton, Mo., with a population of 6,000, moving forward with plans to revolutionize the way utility assets are managed and maintained is a huge undertaking. For the city of Trenton and Trenton Municipal Utilities (TMU), the task was a welcome challenge - one that has resulted in both a return on investment for the City and in a cutting-edge, web-based geographic information system (GIS) utilized by various departments to oversee and maintain the City's entire utility infrastructure.

The Driving Force

TMU and the city of Trenton faced a challenge that many public works departments and utility managers are faced with - the retiring utility mapper. This experienced employee is frequently relied upon to develop and maintain the maps that are utilized by field staff, consultants and anyone else that needs access to information regarding the utility networks. This story is common for cities when a retiring mapper, utility supervisor or public works director retires or leaves with a wealth of knowledge about the history and infrastructure of a city's utility networks.

For years, TMU had a Legacy CAD system that provided the utility operators and field staff a "good enough" estimate as to where utility features and lines were located. They also relied on original utility drawings and "as-built" maps, but locations had never been verified, and employees knew that the available data was not spatially-accurate, while some utilities were missing all together. The mapping system was in definite need of modernization and with the retirement of their utility mapper on the horizon, they took the opportunity to do just that.

"Some city utilities operate independently, but we operate integrated." Chad Davis, utility director of TMU stated. "Our internal draftsman has always done mapping work for our utilities, and also for the City, which played a large factor in combining our GIS program."

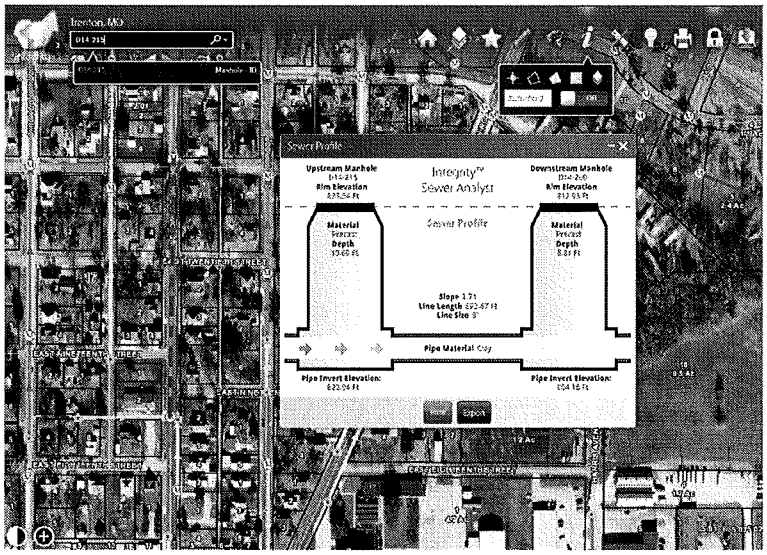
Not only was it critical for the City and TMU to be on the same page and have access on a daily basis to a comprehensive utility GIS program, but the existing spatially-inaccurate data could potentially pose a problem if it were not up to par with regulations set forth by the U.S. Environment Protection Agency (EPA) and the Missouri Department of Natural Resources (DNR). Trenton and TMU recognized the need to pursue the development of a comprehensive geographic information system, and implemented a plan to maintain and manage the data once the project was complete.

Moving In A New Direction

Trenton and TMU actively took the first step in establishing a long-term transition plan for converting their CAD data to a GIS program, and contracted with Midland GIS Solutions from Maryville, Mo.

"TMU was very well prepared for this conversion. Our vice president had been in touch with TMU for several years in preparing them both financially and strategically to make this transition from their CAD maps and utility drawings to a modernized GIS-centric utility management program," stated Ethan Herbek, municipal project supervisor at Midland GIS Solutions. This upgrade would assist TMU

Manhole inspections were completed for 1,153 manholes, lamp holes and mini-manholes throughout the city of Trenton. Some of the inspection data collected includes rim elevation, type, material, depth, surcharge, northing, easting, number of steps and diameter.



This screenshot demonstrates the ability of the City of Trenton and TMU to select a gravity main and instantly generate a sewer profile report to identify line flow and see all attribute information from manhole to manhole.

in complying with EPA and DNR regulations on reporting and mitigating sanitary sewer overflows and inflow and infiltration (I & I) issues, and would ultimately help them achieve their goals of putting relevant data into the hands of as many utility operators and field staff as possible. Previously, only the CAD operator had the electronic version of this mapping information.

A Solid Foundation

One of the first steps toward developing the City's GIS program was for TMU to obtain 100-scale aerial photography for the area in and around the City through a separate contract. This aspect of the project was unique because Midland GIS Solutions managed the aerial control for the aerial photography flown over the City, and made sure that the photography would align with the cadastral data to be obtained from other sources. The digital photography tiles were stored as raster datasets that can be viewed as a continuous, seamless image across the entire City in the GIS program.

The city of Trenton, TMU and Grundy County worked together acquiring previously created cadastral map data layers to incorporate into the City's GIS program, such as parcels, road centerlines, rights of way, section lines, lots, blocks and subdivisions to name a few. Midland GIS Solutions had previously developed Grundy County's GIS data in 2006 and integrated those GIS layers with TMU's utility data in the new GIS program. Relevant AutoCAD drawings, hard copy utility maps, as-built information, and historical utility drawings from the city of Trenton and TMU were also researched and referenced during the project. Midland GIS Solutions created a multi-level control network by surveying the project limits within the City. Permanent control monuments were set by TMU staff and Midland GIS collected static GPS observations on each point to establish a control network that was used for this project. This control network will help ensure that all future projects undertaken by TMU and its contractors will use a consistent coordinate system. Next, project sectors were identified that allowed field staff to determine the order in which each sector would be approached for data collection.

A Comprehensive Approach To Utility Asset Management

The next major phase of the project consisted of developing GIS data for TMU's water distribution system. Through survey grade, or real-time kinematic (RTK) GPS methods, Midland GIS located the waterline network and features contained within the defined project limits.

Next, all the electric network utility features within the project limits were located, including primary and secondary power poles, transformers, junction boxes, switches, fuses, capacitors, street lights and connector lines. TMU also had an electric pole attachment inventory where data on 3,519 primary and secondary power poles were collected and entered into the GIS program. This provided a method for TMU to inventory all of the attachments and accurately justify a 10 percent increase in revenue for TMU from attaching utility companies.

Finally, Midland GIS utilized RTK GPS methods to locate the public sanitary sewer utility features, including all manholes - complete with full inspections, lift stations, gravity mains, lamp holes, force mains and various other attributes while using a custom ArcPad field application. A condition rating system was developed to assist the City with accommodating requests by the EPA and DNR to meet various standards. All GPS surveys were referenced to the existing Missouri State Plane Coordinate System, allowing for direct insertion into the City's new GIS program. Five percent of all field data was checked for quality control purposes prior to insertion into the GIS mapping program.

Managing Utilities With Integrity

Good data management practices insist that a proper method to manage and maintain data is in place to ensure the longevity and integrity of the data management system. Perhaps the most unique part of this project with the city of Trenton and TMU revolves around their motivation to maintain and update the GIS program once it was completed. Four months after the data collection project began, the city of Trenton and TMU had thousands of spatially-accurate data features and attribute data incorporated into a state-of-the-art GIS program. Midland GIS Solutions proposed that the City utilize Integrity™, a secure, web-based solution designed to effectively manage, analyze, update and maintain their new GIS data. With Integrity™, TMU and the city of Trenton can access their utility data in a multi-user environment.

Their current GIS website contains aerial photography, parcels, city zoning boundaries, city limit boundaries, waterline, electric and sanitary sewer data, section, township and range lines, TMU grid system data, address points and a sidewalk layer. For the first time, TMU has a bird's eye view of their entire utility infrastructure and

can conduct complex queries of each system to report on feature condition ratings, pipe assessments, materials, age of infrastructure and even track maintenance activities. The City and TMU also have the sewer analyst tool within their website that gives users the ability to create detailed sewer profiles to analyze upstream and downstream manholes by line length, slope and invert elevation.

The city of Trenton and TMU joined together to convert their outdated utility maps into a comprehensive GIS program with accurate utility data, updated aerial photography and cadastral data layers. Taking that system to the next level by implementing a system to manage, maintain and analyze their data allows city officials, field operators and utility managers to access the information they need on a daily basis. Their efforts will improve communication among departments, improve overall workflow and lead to operational efficiencies never before imagined.❑

For more information on this project, please contact Ethan Herbek, municipal project supervisor at Midland GIS Solutions at ethan.herbek@midlandgis.com or Chad Davis, utility director for Trenton Municipal Utilities at utildirector@trentonmo.com.

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