
GARY L. BURTON, III, P.E.
Principal



Education:

University of Texas at Arlington
M.S. in Civil/Environmental Engineering, 1980
B.S. in Civil Engineering, 1979

License / Certifications:

Reg. Professional Engineer (56643) – TX, 1984
EPA Certified RAM-W, 2003

Summary of Work Experience:

Perform preliminary, design, bid and/or construction phase services for the:

Water Supply, Treatment, and Distribution

- Review and make an assessment of 5- and 10-year targets and other information included in existing Water Conservation Plans (WCP) in order to update water CCNs.
- Compile and review available information on Water Systems, prepared cost opinions and written reports for regulatory approvals and permitting. Present information to the Boards or Councils.
- Water treatment plant process and chemical evaluations at municipal plants.
- Construction and/or rehabilitation of new and/or existing water wells, pumps, and hydro-pneumatic systems.
- Design of water wells, high service pump stations, booster stations, storage tanks, chlorine disinfection systems, ozone color removal and disinfection systems, UV systems, and miles of 6” – 36” transmission mains.
- Design elevated storage tanks with new SCADA system.
- Painting and rehabilitation of existing ground and elevated storage tanks.
- Distribution system hydraulic modeling, using both KYPIPE and WaterCAD/Cybernet software.
- Regional Water Supply Studies.
- Design of raw water intake structures.
- Design for rehabilitation of flocculation and sedimentation basins, rapid mix, filters, clearwells, and sludge management.
- Plant evaluation and pilot plant study for water treatment plants. Processes included ozone, chlorine dioxide, PAC, GAC, chloramination, and ultra filtration for taste, odor, turbidity, and D/DBPR compliance.
- Long-term water supply studies, including hydrologic and environmental evaluation of reservoir sites.
- Design of new surface water plants.
- Various water distribution and fire protection system improvements.

Project Specific (Partial List)

- Design, bid, construction phases services for the City of Van of approximately 2,200 LF of 6" water line; approximately 410 LF of bore; fire hydrants, valves, and fittings; service reconnections; pavement repair; approximately 256 LF of sidewalk; and all associated appurtenances.
- Review and make an assessment of the previous City of Van 5- and 10-year targets and other information included in the existing Water Conservation Plan (WCP) in order to update the water CNN.
- Rehabilitation of Tank No. 2 and Abandonment of Tank No. 1 for the City of Newark.
- Perform design, bid and construction phase services for Water System Improvements for the Town of Lakeside.

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- Compiled and reviewed available information on the Town of Lakeside Water System Plant, prepared cost opinions and written report. This information was presented to the Town Council.
- Provide required engineering for Surface Water Treatment Plant Improvements to upgrade the Water Treatment Plant at the City of Canton. Phase 2 included new filter underdrains, new media, and new air scour system.
- Perform engineering for the City of Canton downtown 50,000 gallon elevated water storage tank to include exterior rehabilitation and painting.
- Perform preliminary, design, bid, and construction phase services for City of Canton, Water Treatment Plant Improvements.
- Increased volume of chemical stored at the water treatment plant for the City of Canton.
- Construction of a new water well and pumps at Industrial Park No. 4 for the City of Canton.
- Construct new 350 gpm 20 hp high service pump station, chlorine/ammonia disinfection system, ground storage tank, and water transmission line to distribute water from Water Well No. 3 for the City of Canton.
- Design services for the construction of the Green Oaks 42" water transmission line for the City of Arlington.
- Hydraulic Evaluation of Gilmer Road Elevated Storage Tank for City of Longview.
- Water and wastewater service and fire protection system design to Marvin A. Smith Regional Juvenile Facility for Gregg County.
- Design of water well, high service pump station, storage tanks, chlorine disinfection system, ozone color removal system, and five miles of 12" transmission main for Liberty City Water Supply Corporation in Gregg County.
- Design of water well, chlorine disinfection system, and three miles of 10" transmission main for the City of Van.
- Design of 600,000 gallon composite elevated storage tank for the City of Whitehouse with new SCADA system.
- Painting and rehabilitation of existing ground and elevated storage tanks for the Cities of Jacksonville and Whitehouse.
- Distribution system hydraulic modeling for the Cities of Chandler, Jacksonville, and Whitehouse and for the Water Supply Corporations of Liberty City and Corinth, using both KYPIPE and WaterCAD/Cybernet computer models.
- Rabbit Creek Reservoir Regional Water Supply Study for portions of Gregg, Smith, and Rusk Counties.
- Design of improvements to Mill Creek water treatment plant for the City of Center.
- Design of raw water intake structure on Lake Pinkston and expansion of Aiken Water Treatment Plant for the City of Center.
- Design rehabilitation of the flocculation and sedimentation basins for the City of Arlington, Pierce-Burch Water Treatment Plant.
- Plant evaluation and pilot plant study for the City of Marshall water treatment plant. Processes evaluated included ozone, chlorine dioxide, PAC, GAC, chloramination, and ultra filtration for taste, odor, turbidity, and D/DBPR compliance.
- Various water distribution and fire protection system improvement projects for the Cities of Big Sandy, Center, Chandler, Henderson, Jacksonville, New London, Overton, Rusk, and Whitehouse.
- Long-term water supply study, including hydrologic and environmental evaluation of two reservoir sites, for the City of Canton.
- Project Engineer for Bloxom Park Road –approximately 1,200 LF of 8" water line from Hudson Village Creek Road for the City of Kennedale Economic Development Corporation (KEDC).
- Evaluate options of lime vs caustic at the Water Treatment Plant for the City of Palestine.
- Preliminary and final design services and bid and construction phase assistance to construct a new 300,000 gallon capacity composite elevated storage tank including automation/SCADA for the Town of Lakeside.

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- Preliminary and final design services and bid and construction phase assistance to construct a new meter vault at the Azle interconnect and water main extensions for water distribution from a new 0.3 MG composite Elevated Storage Tank for the Town of Lakeside.
- Evaluate conventional filtration system for possible rehabilitation needs including media, underdrains, backwash system, air scour system, surface wash system, instrumentation, and controls at the Water Treatment Plant for the City of Palestine.
- Replace sedimentation basin effluent weir troughs at drinking water plant for the City of Palestine.
- Design for the construction a new water main in the State Highway 19 west right-of-way from Interstate 20 approximately 685' north for the City of Canton.

Wastewater Treatment and Collection

- Project Engineer for the master plan, infrastructure design, and improvements for approximately 2.5 miles of a sanitary sewer force main along I-20 for the City of Canton.
- Project Engineer on the new 15" diameter interceptor sewer to serve development projected around the Chisholm Trail Parkway Corridor for the City of Burleson.
- Rush Creek - Phase 1: Realignment and renewal of existing 27" interceptor with new 30" interceptor, including gabion bank protection for the City of Arlington.
- Evaluate options to increase sanitary sewer capacities in Chattanooga Industrial Park for the City of Corsicana. Based on the findings, design of larger pumps and for a new 18" gravity sewer line.
- Design new gravity main and two lift stations to serve South Business Park along I-45 for the City of Corsicana.
- Design to replace an superannuated 4,500 gpm 300 hp high service pump with a new pump at the surface water treatment plant for the City of Marshall.
- Project Engineer on the Sanitary Sewer Collection System Infiltration / Inflow (I/I) Investigation for the City of Bedford. This included performing TV inspection, analysis, reporting and assistance in developing sanitary sewer renewal recommendations for I/I reduction. The study area is comprised of approximately 27,375 LF in Basin 19.1 W.
 - In continuation of the Sanitary Sewer Renewal and Rehabilitation efforts, we were asked to prepare a 5-Year Capital Improvements Plan as required by the EPA Agreed Order. We were authorized to prepare plans, specifications, and contract documents for the first year projects. This consisted of TV inspections and cleaning, main replacement, manhole rehabilitation, and high priority point repair. Also included were three gravity sewer renewals using pipe bursting and cured in place pipe, one gravity line realignment, and one line cleaning/TV inspection.
 - Project 1: Bedford Boy's Ranch
 - Project 2: Closed-Circuit TV and Inspection
 - Project 3: 19.1W Spring Valley Dr (Harwood Terrace - Simpson Terrace)
 - Project 4: 19.1W Kelmont Park (Shirley Way - Shumac Ln)
- Design and engineering to replace approximately 6,550 LF sanitary sewer mains along with the reconnection of the associated service connections for the City of Haltom City.
- Engineering services for City of Marshall for replacement of 80,000 cubic feet of trickling filter PVC Media.
- Design improvements for dewatering system and plant expansion for the Town of Ponder, in association with City Engineer, Belcheff & Associates, Inc.
- Design new effluent lift station, effluent cloth disc filters system, and chlorine contact chamber for the City of Newark WWTP.
- Engineering services for rehab of two aerobic digesters and two clarifiers for the City of Canton WWTP.
- Evaluate the feasibility of effluent filtration addition and UV system upgrade for the City of Canton WWTP.
- Design of a mechanical bar screen structure for the City of Ponder in association with City Engineer Belcheff & Associates, Inc.
- Application to amend the Wastewater Treatment Plant TPDES discharge permit for the City of Newark.

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- Engineering services for Wastewater Treatment Plant improvements for the Town of Lakeside.
- Engineering services for the expansion of the City of Canton Wastewater Treatment Plant which included upgrades to influent pump station, aeration rotors, and UV disinfection system and addition of belt filter press.
- Design of sludge return improvements and permitting for the City of Center.
- Design of wastewater treatment plants and permitting for the Cities of Chandler, Easton, Henderson, Jacksonville, Justin, Lometa, Marshall, New London, New Summerfield, Overton, Van, Canton, Town of Lakeside, and Whitehouse and Hickory Ridge Mobile Home Park in Palestine.
- Design of plant improvements at Woodmark and Tall Timbers WWTPs when owned by Algonquin Water.
- Design of a pilot plant and evaluation of a wastewater treatment plant for the City of Garland.
- Wastewater facilities master plans for the Cities of Jacksonville and Whitehouse, Liberty City Water Supply Corporation, and Woodmark and Tall Timbers Systems owned by Liberty Water.
- Evaluation of South Wastewater Treatment Plant and associated permitting for the City of New London.
- Evaluation of Wells Creek Wastewater Treatment Facility for the City of Palestine.
- Design of wastewater treatment plant and irrigation system and associated permitting for Pine Haven Mobile Home Park in Smith County.
- Design of the wetland wastewater treatment plant and irrigation system for the Rusk County Agriculture/Youth Expo Center.
- Preparation of SSES for the City of Jacksonville. Project included computer modeling of entire collection system using Hydroworks. A long-term plan was developed for improvements to eliminate sanitary sewer overflows.
- Design of initial collection system for the Cities of Easton and New Summerfield.
- Design of low pressure collection systems for West Cedar Creek Utility District and Lake Livingston Resort development.
- Design of wet weather flow diversion systems for the Cities of Jacksonville and Marshall.
- Performance of smoke testing, flow monitoring, and TV inspection for purposes of I/I reduction and SSO elimination.
- Collection systems master planning for the Cities of Chandler, Jacksonville, and Whitehouse and Liberty City Water Supply Corporation.

Paving and Drainage Experience

- Design for the construction of a new 2,700 LF access road (Road 6078 aka Sanderson Boulevard) for a new industrial facility for the City of Palestine.
- Prepared preliminary, schematic design, and Plans, Specification and Estimates (PS&E) for approximately 0.5 mile frontage road along I-45 Southbound Frontage Road for the City of Corsicana.
- Design improvements and PS&E to reconstruct Collin Street for the City of Corsicana to include storm sewer upgrade and relocation of water and sanitary sewer mains.
- Design improvements and provide PS&E to reconstruct existing major thoroughfare at North 24th street in the City of Corsicana, with concrete and storm sewer upgrade and relocation of water and sanitary sewer mains.
- Provide Dam and Spillway Repair Assessment (Toe Drain Installation and Security Improvements) for the Cherokee Water Company
- Drain Pipe / Valve Assessment at Dam for Cherokee Water Company.
- Street and drainage improvements and utility relocation on Etheridge Road for the City of Canton.
- Provide design, services for the City of Canton for modifications to the park soccer field off of Old Kaufman Road, for drainage improvements, new soccer fields, and parking.

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- City of Canton Athens Street Reconstruction to include performing design, bid, and construction phase services for the reconstruction of 0.32 mile of Athens Street
- Provided engineering services for the City of Canton – Main Street Program Sidewalks to include design, bid and construction phase services for sidewalk infrastructure improvements in Main Street area.
- Etheridge Road reconstruction for the City of Canton. Asphalt pavement with storm sewer.
- Design of S. A. Norman Industrial Park Road for Jacksonville Development Corporation. Asphalt and concrete pavement.
- Industrial Parks #3 & #4 for Canton EDC. Asphalt and concrete pavement.
- Crim Avenue relocation for Kilgore College and the City of Kilgore. Asphalt pavement with storm sewer.
- Residential street reconstruction for the City of Whitehouse. Asphalt pavement with storm sewer.
- Westbrook Industrial Park Road for Sulphur Springs Economic Development Corporation. Concrete pavement and utility construction.
- Design of **storm water detention pond** for a new convenience store in Corsicana.
- Reconstruction of Kinsey Drive for City of Tyler. Asphalt pavement with utility replacements.
- Design and installation of vortex separators for storm water treatment and spill containment for two drainage basins totaling 120 acres at industrial complex.
- Evaluation of storm water **retention** in the Dry Creek drainage basin for reduction of flood elevations at First Monday Trades Day Park for the City of Canton.
- Flood studies and culvert replacements around Lake Cherokee and Cedar Creek Lake.
- Design of wet weather flow diversion systems.

Affiliations:

American Water Works Association, National and Texas
Society of Professional Engineers, National and Texas
Texas Rural Water Association
Texas Water Conservation Association
Water Environment, Federation and Association of Texas