

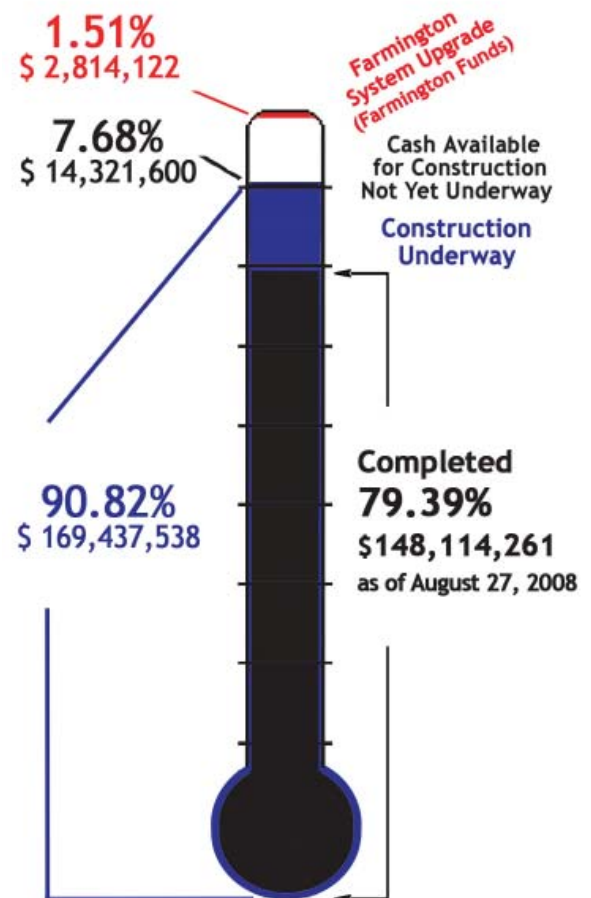
# Wastewater System Improvement Project (WSIP)

The Wastewater System Improvement Project (WSIP) is a system wide project that significantly increases the capacity of the City's wastewater system. This project addresses capacity short-falls in the wastewater collection and treatment systems; the design is expected to treat the wastewater for 115,000 people.

This project will increase the City's wastewater treatment capacity from 12.6 to 21.2 million gallons per day, and will reduce the number of sewer system overflows due to rain entering the system. It also improves odor control facilities system wide. The west side wastewater treatment plant started treating wastewater on May 29, 2008.

Major construction elements of the project include:

- (1) Constructing a new West Side Wastewater Treatment Plant (\$64.1 million including water lines, wetlands construction, and other work adjacent to the site).
- (2) Constructing 21.6 miles of new or replacement sewer transmission pipes and 2 pump stations in the north and west areas of the City to carry the wastewater to the new West Side WWTP (\$39.6 million).
- (3) Upgrading the existing Noland WWTP on the east side of town (\$18.1 million).
- (4) Constructing 9.3 miles of new or replacement sewer transmission pipes and replacing, modifying, or upgrading six pump stations in the south and east areas of the City to better carry the wastewater to the Noland WWTP (\$20.0 million).
- (5) The project also involves work including constructing 25.5 acres of wetlands, over one mile of roadway, ½ mile of water pipe, engineering design and construction inspection for all aspects of the project, easements for the pipelines, and all of the associated permitting and coordination with the Corps of Engineers, Arkansas Department of Equality, the Arkansas Natural Resources Commission, the Beaver Water District, various Oklahoma agencies, and contingency calculated (\$36.6 million).
- (6) A lift station and approximately four miles of associated pipe line work to service Farmington and the Fayetteville area immediately east of Farmington (Approx. \$5.9 million provided by Farmington and \$2.3 million provided by Fayetteville).



The project is funded through a combination of a \$42 million sales tax bond issue approved in September 2006, a \$125 million sales tax bond issue approved in November 2001, system revenues, developer impact fees, and the sale of land at the West Side WWTP site.

# City of Fayetteville ~ Major Capital Improvements

*Progress Report as of August 28, 2008*

## Wastewater System Improvement Project (WSIP)

- 1 **Hamestring Sewer Lift Station (WL-6)**
  - Construct a 36 mgd capacity sewer pump station
  - \$6,909,800 cost
  - **Construction complete**
  - Brasfield & Gorrie Contractors
- 2 **48" Gravity Sewer Line - Gregg to Hamestring (WL-4)**
  - Construct 24,751' of 48" gravity sewer pipe line and 3,876' of 30" sewer pressure pipe line
  - \$10,970,164 cost
  - Construction substantially complete
  - Oscar Renda Contractors
- 3 **Force Mains - Hamestring to West Plant (WL-5)**
  - Construct 21,740' of 24 and 30" sewer force pipe lines
  - \$4,752,287 cost
  - **Construction complete**
  - Garney Construction
- 4 **Broyles Road Water Line (WP-1a)**
  - Construct 3,100' of 12" water Line
  - Cost included with West Side Wastewater Treatment Plant #5
  - **Construction complete**
  - Brasfield & Gorrie Contractors**Broyles Road (WP-1b)**
  - Construct 5,900' of two lane asphalt road
  - \$3,737,966 cost
  - Construction substantially complete
  - Dean Crowder Construction
- 5 **West Side Wastewater Treatment Plant (WP-3)**
  - Construct a new 10 million gallon per day (mgd) (average daily flow) wastewater treatment plant
  - \$60,398,785 cost
  - Construction substantially complete
  - Brasfield & Gorrie Contractors
- 6 **Wetlands Mitigation (WP-2b)**
  - Construct and plant 25.5 acres of wetlands
  - Construction substantially complete
- 7 **Owl Creek Lift Station & Force Main (WL-8)**
  - Upgrade the existing sewer pump station and install 11,600' of (estimated) 15" sewer pressure pipe line
  - Scope of work under review
- 8 **Porter Road to Hamestring Sewer Line (WL-3)**
  - Construct 14,100' of 21-24" gravity sewer pipe line
  - \$7,186,957 cost
  - Construction substantially complete
  - Oscar Renda Contractors
- 9 **North Street to Poplar to Van Asche Sewer Line (WL-2)**
  - Construct 13,900' - mostly 24-33" gravity sewer pipe line
  - \$4,433,820 cost
  - **Construction complete**
  - T-G Excavating Contractor
- 10 **Gregg Ave Sewer Lift Station (WL-7)**
  - Construct a 19 mgd capacity sewer pump station
  - \$1,527,000 cost
  - Construction substantially complete
  - Crossland Heavy Contractors, Inc.
- 11 **Old Wire Road to Gregg Ave Sewer Line (WL-1)**
  - Construct 15,770' of 21-36" gravity sewer pipe line
  - Cost included with Porter to Hamestring - #8
  - Construction substantially complete
  - Oscar Renda Contractors
- 12 **Noland (East Side) Wastewater Treatment Plant Renovation**

**Phase I (EP-2)**

  - Upgrade odor control, solids handling, headworks
  - \$14,836,631 cost
  - **Construction complete**
  - Archer Western Contractors

**Phase I (EP-4)**

  - Upgrade Effluent Aeration
  - \$66,460 cost
  - **Construction complete**
  - BlueinGreen Contractors

**Phase II (EP-1)**

  - Increase wet weather capacity
  - \$1,336,886 cost
  - Construction substantially complete
  - Wilson Brothers Contractors

**Phase III (EP-3)**

  - Remove effluent pump, upgrade aeration basin
  - \$2,439,646 cost
  - Notice to Proceed August 19, 2008
  - Estimated completion May, 2009
  - Crossland Heavy Contractors, Inc.
- 13 **Mally Wagnon Sewer Lift Station & Force Main (EL-1)**
  - Replace sewer pump station, install 4,000' of 16" sewer force pipe line
  - \$1,393,880 cost
  - **Construction complete**
  - Garney Construction
- 14 **Happy Hollow to Noland Wastewater Treatment Plant Sewer Line (EL-2)**
  - Construct 26,458' of 42" gravity sewer pipe line
  - \$10,431,995 cost
  - Construction 91.13% complete
  - Estimated completion September, 2008
  - Rosetta Construction
- 15 & 16 (combined projects)

**Razorback Rd to Happy Hollow Sewer Line (EL-3)**

  - Construct 13,489' of 21-30" gravity sewer pipe line

**South Mountain to Industrial Park Sewer Line (EL-5)**

  - Construct 4,084' of 10" gravity sewer pipe line
  - \$5,253,795 cost
  - Contract to City Council September 16, 2008
  - Estimated completion October, 2009
  - SJ Louis Construction
- 31 **Lift Station Upgrade (EL-4)**
  - Upgrade Sewer Lift Stations 13, 14, & 16
  - \$460,367 cost
  - Construction 90% complete
  - Estimated completion August 2008
  - OMI is executing work

# City of Fayetteville ~ Major Capital Improvements

*Progress Report as of August 28, 2008*

## Other Major Capital Improvements (*non-WSIP*)

- 17 Hwy 62 West Water Line
  - Relocating water line along Hwy 62 due to widening from North Hunter to County Rd 647
  - \$1,180,177 cost
  - Construction complete
- 18 Sanitary Sewer Rehab
  - Construct 13,067' of 8-15" gravity sewer pipe line at various locations city-wide
  - \$2,266,606 cost
  - Construction complete
  - T-G Excavating, Contractor
- 19 North College Water Line - Maple to North
  - Replacing water lines along College Avenue from Maple Street to North Street
  - \$1,377,141 cost
  - Construction complete
- 20 24" Water Line Improvements
  - Replacing water lines along Custer Lane and Morningside Drive
  - \$908,710 cost
  - Construction complete
  - Crossland Heavy Contractors
- 21 Razorback Road Water Line Relocation
  - Relocating the water line along Razorback Road due to widening from 6th Street to 15th Street
  - \$722,891 cost
  - Construction complete
- 22 Hwy 16 Water Line Relocate - Ruppel to Double Springs
  - Relocating water line along Hwy 16 due to widening from Ruppel Road to Double Springs Road
  - \$1,591,426 cost
  - Construction complete
- 23 Mount Sequoyah Water & Sewer
  - Construct approximately 6,900' of water line and 600' of sewer line in the Mount Sequoyah area
  - \$1,400,000 estimated cost
  - Final design underway by Garver Engineers
  - Tentative bid date October, 2008
  - Estimated completion May, 2009
- 25 36" Water Line Improvements (*not shown on map*)
  - Install pressure sustaining valves to maintain positive pressure in water transmission mains
  - Install remote valve activators to isolate sections of the water transmission mains in case of line failure
  - \$1,185,000 cost
  - Construction substantially complete
  - Alpha Utilities, Inc. Contractor

### *West Fayetteville - Farmington WSIP Subprojects*

- 26 Farmington Gravity Sewer Line (WL-10)
  - Contract 1
    - Construct 2,000' of 21" gravity line
    - \$ 335,967 cost
    - Construction substantially complete
    - Redford Construction
  - Contract 2 (WL-10a)
    - Construct 12,322' of 12-24" gravity sewer line
    - \$2,800,000 estimated cost-not yet bid
    - Final Design and cost estimate underway by RJN
    - Tentative bid date December, 2008
    - Estimated Completion November, 2009
- 27 Farmington Force Main (WL-11)
  - Construct 10,500' of 16" sewer force main
  - \$ 1,324,485 cost
  - Construction 47% complete
  - Estimated completion February, 2009
  - Garney Construction
- 28 Farmington Lift Station (WL-12)
  - Construct a 3.0 mgd capacity sewer pump station
  - \$ 1,697,881 cost
  - Construction 35% complete
  - Estimated completion February, 2009
  - JL Bryson, Inc, Contractor
- 29 Farmington Sanitary Sewer Rehab
  - Unit 1
    - Construct 3,655' of sewer and 66 point repairs
    - \$782,507 cost
    - Construction complete
    - T-G Excavating, Contractors
  - Unit 2
    - Lining of 5,668' of 6" & 8" pipe by cured-in-place lining
    - \$175,885 cost
    - Construction complete
    - Insituform, Inc., Contractor
- 30 Manhole Rehabilitation (*not shown on map*)
  - Repair approximately 800 manholes
  - \$1,501,102 cost
  - Construction 33% complete
  - Estimated completion February, 2009
  - Kim Construction
- 32 2008 SSES
  - Evaluate 400 manholes and 175,000 linear feet of sanitary sewer mains
  - \$395,109 cost
  - Work 15% complete
  - Estimated completion January, 2009
  - RJN Group, Inc.

#### *Notes:*

- All completion dates are for substantial completion, that being the date on which the constructed work can be placed in service.
- Percentage completion is based on dollars earned as of the most recent pay request.

# Major Water & Wastewater Improvements Underway

## City of Fayetteville, Arkansas

- Ongoing Projects
- Construction Completed
- Current Construction Areas

