

ATTACHMENT J6

Tulsa International Airport (ANG) Wastewater Collection System

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J6 Tulsa International Airport (ANG) Wastewater Collection System

J6.1 Tulsa International Airport (ANG) Overview

The 138th Fighter Wing (FW) of the Oklahoma Air National Guard (OANG) occupies 81 acres on the Tulsa International Airport, located approximately 7 miles northeast of downtown Tulsa, Oklahoma. The unit currently flies the F-16 Falcon. The 138th FW occupies 15 administrative, 24 industrial, and 5 services buildings totaling approximately 327,000 square feet. There are two construction projects in progress that when complete (both estimated to be complete by Jan 2002) will increase the base's building square footage by 32,500 square feet. There are currently 328 full-time personnel and unit-training drills conducted once each month result in a surge of up to a total of 1150 personnel.

J6.2 Wastewater Collection System Description

J6.2.1 Wastewater Collection System Fixed Equipment Inventory

The Tulsa International Airport (ANG) Wastewater Collection System consists of all appurtenances physically connected to the collection system from the point of demarcation defined by the Right of Way. The system may include, but is not limited to, pipelines, manholes, lift stations, and pumps. The actual inventory of items sold will be in the bill of sale at the time the system is transferred. The following description and inventory is included to provide the Contractor with a general understanding of the size and configuration of the system. The Government makes no representation that the inventory is accurate. The Contractor shall base its proposal on site inspections, information in the technical library, other pertinent information, and to a lesser degree the following description and inventory. Under no circumstances shall the Contractor be entitled to any service charge adjustments based on the accuracy of the following description and inventory.

Specifically excluded from the Wastewater Collection System privatization are:

- Grease traps

- Oil Water Separators

- City of Tulsa owned main which runs in a east to west direction through the northern portion of the base

J6.2.1.1 Description

The Tulsa International Airport (ANG) wastewater collection system is already partially privatized. All base owned mains connect to the City of Tulsa owned main which enters the base at a point 156 feet north of the centerline of Airacobra St. on the east side of the base and runs generally from east to west across the northern portion of the base and exits the base at a point 660 feet east of the northwest corner of the base perimeter fence. The portion of the wastewater collection system owned by the base operates via gravity flow and force mains. The base owned collection system enters the city owned main at 11 locations. The wastewater collection

system consists of approximately 2,200 linear feet of PVC pipe; 2,300 linear feet of cast iron pipe; 500 linear feet of ductile iron pipe; 4,100 linear feet of vitrified clay pipe; and 350 linear feet of transite pipe. All pipes range in size from three to ten inches. Pipe depth ranges from five to 12 feet without tracer wire or warning tape. The system includes three lift stations, ranging from eight to 14 feet deep; four pre-cast concrete manholes and 15 brick manholes ranging from six to twelve feet in depth. Base personnel indicate the capacity of the current system is adequate for present and future needs.

J6.2.1.2 Inventory

Table 1 provides a general listing of the major Wastewater Collection System fixed assets for the Tulsa International Airport (ANG) Wastewater Collection System included in the sale.

TABLE 1
Fixed Inventory
Wastewater Collection System Tulsa International Airport (ANG)

Item	Size	Quantity	Unit	Approximate Year of Construction
PVC Pipe	(in.)			
	4	106	LF	1988
	4	412	LF	1985
	4	338	LF	1983
PVC Force Main	4	1033	LF	1987
PVC Force Main	4	320	LF	1996
Cast Iron Pipe	(in.)			
	3	45	LF	1980
	4	225	LF	1985
	4	119	LF	1989
	4	275	LF	1980
	4	65	LF	1977
	4	400	LF	1982
	4	137	LF	1978
	6	275	LF	1980
	8	475	LF	1985
Cast Iron Force Main	4	280	LF	1989
Ductile Iron Force Main	6	534	LF	1996
Vitrified Clay Pipe	(in.)			
	6	469	LF	1959
	6	30	LF	1965

Item	Size	Quantity	Unit	Approximate Year of Construction
	6	288	LF	1975
	6	475	LF	1985
	8	140	LF	1981
	8	956	LF	1959
	10	1694	LF	1959
Transite Pipe	(in.)			
	6	357	LF	1961
Standard Sanitary Sewer Manhole (4 ft diameter)	Depth (ft)			
Brick	6	11	EA	1959
Brick	6	1	EA	1985
Brick	8	1	EA	1959
Brick	10	1	EA	1959
Brick	12	1	EA	1959
Precast-Concrete	6	3	EA	1996
Precast-Concrete	8	1	EA	1996
Wastewater Lift/Pump Station				
-Lift Station 1, 6 ft x 14 ft deep steel wetwell		1	EA	1987
-Lit Station 2, 5 ft x 8 ft deep steel wetwell		1	EA	1989
-Lift Station 3, 4 ft x 8 ft deep steel wetwell		1	EA	1996
Lift Station Pump	HP			
-Submersible pump (Lift Station 1)	3	2	EA	1987
-Submersible pump (Lift Station 2)	¾	2	EA	1989
-Submersible pump (Lift Station 3)	1	2	EA	1996
Notes:				
PVC = Polyvinyl Chloride				
LF = Linear Feet				
In = Inches				
FT = Feet				
HP = Horsepower				
EA = Each				

J6.2.2 Wastewater Collection System Non-Fixed Equipment and Specialized Tools

Table 2 lists other ancillary equipment (spare parts) and **Table 3** lists specialized vehicles and tools included in the purchase. Offerors shall field verify all equipment, vehicles, and tools prior to submitting a bid. Offerors shall make their own determination of the adequacy of all equipment, vehicles, and tools.

TABLE 2

Spare Parts

Wastewater Collection System Tulsa International Airport (ANG)

Qty	Item	Make/Model	Description	Remarks
None				

TABLE 3

Specialized Vehicles and Tools

Wastewater Collection System Tulsa International Airport (ANG)

Description	Quantity	Location	Maker
None			

J6.2.3 Wastewater Collection System Manuals, Drawings, and Records

Table 4 lists the manuals, drawings, and records that will be transferred with the system.

TABLE 4

Manuals, Drawings, and Records

Wastewater Collection System Tulsa International Airport (ANG)

Qty	Description	Remarks
1	Wastewater Utility System Maps (electronic copy)	AutoCAD Release Version 2000

J6.3 Specific Service Requirements

The service requirements for the Tulsa International Airport (ANG) Wastewater Collection System are as defined in the Section C Description/Specifications/Work Statement.

J6.4 Current Service Arrangement

Current Provider: City of Tulsa

Average Annual Effluent (2000): 6,991 kGal

Maximum Monthly Effluent: 1,650 kGal

Minimum Monthly Effluent: 66 kGal

Wastewater is estimated at 100% of water consumption

J6.5 Secondary Metering

The Contractor shall install and calibrate new secondary meters as listed in **Table 5**. New secondary meters shall be installed IAW Paragraph C.13, Transition Plan. After installation, the Contractor shall maintain and read these meters IAW Paragraphs C.3 and J6.6 below.

TABLE 5

New Secondary Meters

Wastewater Collection System Tulsa International Airport (ANG)

Meter Location	Meter Description
None	

J6.6 Monthly Submittals

The Contractor shall provide the Government monthly submittals for the following:

1. Invoice (IAW paragraph G.2). The Contractor's monthly invoice shall be presented in a format proposed by the Contractor and accepted by the Contracting Officer. Invoices shall be submitted by the 25th of each month for the previous month. Invoices shall be submitted to the person identified at time of contract award.
2. Outage Report. The Contractor's monthly outage report (blockage and overflow information) will be prepared in the format proposed by the Contractor and accepted by the Contracting Officer. Outage reports shall be submitted by the 25th of each month for the previous month. Outage reports shall be submitted to the person identified at time of contract award.
3. Infiltration and Inflow Report. If required by Paragraph C.3, the Contractor shall submit an Infiltration and Inflow report in a format proposed by the Contractor and accepted by the Contracting Officer. System efficiency reports shall be submitted by the 25th of each month for the previous month. System efficiency reports shall be submitted to the person identified at time of contract award.

J6.7 Infiltration and Inflow (I&I) Projects

IAW Paragraph C.3 Utility Service Requirement, the following projects have been implemented by the Government for managing and monitoring I&I: None

J6.8 Service Area

IAW Paragraph C.4 Service Area, the service area is defined as all areas within the Tulsa International Airport (ANG) boundaries.

J6.9 Off-Installation Sites

No off-installation sites are included in the sale of the Tulsa International Airport (ANG) Wastewater Collection System.

J6.10 Specific Transition Requirements

IAW Paragraph C.13 Transition Plan, **Table 6** provides a listing of service connections and disconnections required upon transfer.

TABLE 6
Service Connections and Disconnections
Wastewater Collection System Tulsa International Airport (ANG)

Location	Description
Building # 301	Lift Station #2 control panel is currently located inside the mechanical room of Building 301. The control panel and electrical service will need to be relocated to an outside location TBD adjacent to the lift station.

J6.11 Government Recognized System Deficiencies

Table 7 provides a listing of system improvements that the Government has planned. The Government recognizes these improvement projects as representing current deficiencies associated with the Tulsa International Airport (ANG) Wastewater Collection System. If the utility system is sold, the Government will not accomplish these planned improvements. The Contractor shall make a determination as to its actual need to accomplish and the timing of any and all such planned improvements. Capital upgrade projects shall be proposed through the Capital Upgrades and Renewals and Replacements Plan process and will be recovered through Schedule L-3. Renewal and replacement projects will be recovered through Sub-CLIN AB.

TABLE 7
System Deficiencies
Wastewater Collection System Tulsa International Airport (ANG)

Project Location	Project Description
None	