

ATTACHMENT J5

Tulsa International Airport (ANG) Water Distribution System

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J5 Tulsa International Airport (ANG) Water Distribution System

J5.1 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.

J5.2 Water Distribution System Description

J5.2.1 Water Distribution System Fixed Equipment Inventory

The Tulsa International Airport (ANG) water distribution system consists of all appurtenances physically connected to the distribution system from the point in which the distribution system enters the Installation and Government ownership currently starts to the point of demarcation, defined by the Right of Way. The system may include, but is not limited to, pipelines, valves, fire hydrants, and exterior backflow devices. 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 distribution 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 water distribution system privatization are:

- Lawn sprinkler systems

- Fire suppression systems

- City of Tulsa owned main located in south-west corner of base which feeds the base owned lateral to building #603.

J5.2.1.1 Description

Water is supplied by the City of Tulsa and enters the base at three points. The configuration is a looped system with some dead-end branches, with water delivered at 125 psig and reduced at the buildings to 80 psig. The distribution system consists of approximately 1,750 linear feet of PVC pipe, 3,700 linear feet of ductile iron pipe, 3,800 linear feet of cast iron pipe, 2,300 linear feet of copper pipe, 70 linear feet of steel pipe, and 430 linear feet of concrete pipe. Piping diameters range from ¾ to 10 inches and pipes are buried at an average depth of four feet with the use of tracer wire

and/or marking tape. The system also has 25 cast iron gate valves, 4 bronze gate valves, 18 fire hydrant assemblies, and one exterior backflow preventer. Base personnel indicate the capacity of the current system is adequate for present and future needs.

J5.2.1.2 Inventory

Table 1 provides a general listing of the major water distribution system fixed assets for the Tulsa International Airport (ANG) water distribution system included in the sale.

TABLE 1
Fixed Inventory
Water Distribution System Tulsa International Airport (ANG)

Item	Size	Quantity	Unit	Approximate Year of Construction
PVC Pipe	(in)			
	4	600	LF	1990
	6	194	LF	1990
	8	263	LF	1997
	8	304	LF	1990
	8	250	LF	1994
	8	137	LF	1982
Ductile Iron Pipe	(in)			
	2	95	LF	2001
	6	425	LF	1985
	6	185	LF	1996
	6	62	LF	1997
	8	315	LF	1977
	8	1336	LF	2001
	8	1240	LF	1985
Cast Iron Pipe	(in)			
	2	193	LF	1961
	2	75	LF	1959
	3	140	LF	1965
	3	432	LF	1962
	6	583	LF	1965
	6	174	LF	1959
	6	278	LF	1980
	8	1288	LF	1959

Item	Size	Quantity	Unit	Approximate Year of Construction
	8	402	LF	1969
	10	216	LF	1959
Copper pipe	(in)			
	3/4	263	LF	1961
	3/4	105	LF	1988
	3/4	75	LF	1972
	1	114	LF	1997
	1	170	LF	1985
	1.25	243	LF	1986
	1.5	65	LF	1977
	2	210	LF	1996
	2	260	LF	1989
	2	60	LF	1959
	2	245	LF	1987
	2.5	340	LF	1989
	2.5	104	LF	1978
Steel pipe	(in)			
	2	70	LF	1980
Concrete pipe	(in)			
	8	432	LF	1975
Bronze Gate Valve s	(in)			
	1	1	LF	1985
	2	1	LF	1987
	2.5	2	LF	1989
Cast Iron Gate Valves	(in)			
	0.75	1	LF	1972
	0.75	1	LF	1988
	1.25	1	LF	1986
	2	1	LF	1959
	6	2	LF	1985
	6	1	LF	1997
	6	1	LF	1996

Item	Size	Quantity	Unit	Approximate Year of Construction
	6	2	LF	1959
	8	2	LF	2001
	8	5	LF	1975
	8	2	LF	1990
	8	2	LF	1997
	8	3	LF	1959
	10	1	LF	1959
Fire Hydrant Assemblies				
		3	EA	1959
		1	EA	1965
		1	EA	1969
		2	EA	1975
		1	EA	1977
		1	EA	1980
		3	EA	1985
		1	EA	1990
		1	EA	1992
		2	EA	1994
		2	EA	1997
Backflow Devices	(in)			
Exterior	10	1	EA	1959
Notes:				
PVC = Polyvinyl Chloride				
EA = Each				
LF = Linear Feet				
IN = Inches				

J5.2.2 Water Distribution 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

Water Distribution System Tulsa International Airport (ANG)

Qty	Item	Make/Model	Description	Remarks
None				

TABLE 3

Specialized Vehicles and Tools
Water Distribution System Tulsa International Airport (ANG)

Description	Quantity	Location	Maker
None			

J5.2.3 Water Distribution 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
Water Distribution System Tulsa International Airport (ANG)

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

J5.3 Specific Service Requirements

The service requirements for the Tulsa International Airport (ANG) water distribution system are as defined in the Section C, Description/Specifications/Work Statement.

J5.4 Current Service Arrangement

Current Provider: City of Tulsa

Average Annual Usage (2000): 6,991 kGal

Maximum Monthly Use: 1,650 kGal

Minimum Monthly Use: 66 kGal

J5.5 Secondary Metering

J5.5.1 Existing Secondary Meters

Table 5 provides a listing of the existing (at the time of contract award) secondary meters that will be transferred to the Contractor. The Contractor shall provide meter readings for all secondary meters IAW Paragraph C.3 and J5.6 below.

TABLE 5

Existing Secondary Meters
Water Distribution System Tulsa International Airport (ANG)

Meter Location	Meter Description (Type)
None	

J5.5.2 Required New Secondary Meters

The Contractor shall install and calibrate new secondary meters as listed in **Table 6**. 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 J5.6 below.

TABLE 6

New Secondary Meters

Water Distribution System Tulsa International Airport (ANG)

Meter Location	Meter Description
Building 313 (AAFES)	Standard 2-inch water meter
Building 35 (Star Base)	Standard 1-inch water meter

J5.6 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 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. Meter Reading Report. The monthly meter reading report shall show the current and previous month readings for all identified secondary meters. The Contractor's monthly meter reading report will be prepared in the format proposed by the Contractor and accepted by the Contracting Officer. Meter reading reports shall be submitted by the 15th of each month for the previous month. Meter reading reports shall be submitted to the person identified at time of contract award.

J5.7 Water Conservation Projects

IAW Paragraph C.3 Utility Service Requirement, the following projects have been implemented by the Government for conservation purposes: None.

J5.8 Service Area

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

J5.9 Off-Installation Sites

No off-installation sites are included in the sale of the Tulsa International Airport (ANG) water distribution system.

J5.10 Specific Transition Requirements

IAW Paragraph C.13 Transition Plan, **Table 7** provides a listing of service connections and disconnections required upon transfer.

TABLE 7
Service Connections and Disconnections
Water Distribution System Tulsa International Airport (ANG)

Location	Description
None	

J5.11 Government Recognized System Deficiencies

Table 8 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) water distribution 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 8
System Deficiencies
Water Distribution System Tulsa International Airport (ANG)

Project Location	Project Description
None	