

ATTACHMENT J21

Mansfield Lahm Airport (ANG) Wastewater Collection System

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J21 Mansfield Lahm Airport (ANG) Wastewater Collection System

J21.1 Mansfield Lahm Airport (ANG) Overview

The 179th Airlift Wing (AW) of the Ohio Air National Guard occupies two separate portions of land (the main base area and the POL area, linked by a road included in the lease) totaling 67 acres of leased land on the Mansfield Lahm Airport. The Mansfield Lahm Airport sits approximately 3 miles north of the city of Mansfield, located in north-central Ohio, halfway between Cleveland and Columbus. The mission of the 179th AW is to develop highly qualified operations, logistics, support, and medical professionals who provide theater airlift and mission support to serve the community, state, and nation. The unit currently flies the C-130 Hercules. The 179th AW occupies 4 administrative and 29 industrial buildings totaling approximately 265,000 square feet with 370 full-time personnel. A unit training drill is conducted once a month and results in a surge of up to a total of 945 personnel. There are two construction projects in progress, which when complete, will add approximately 45,000 square feet of building space. The first involves Buildings 200 and 300 and is titled "Replace Security Forces Complex". This is scheduled for completion in 2001, and as part of this project Building 200 will be demolished after the new building 300 is occupied. The second project is titled "Replace Squadron Operations and Communications Complex" and is funded for contract award by 30 September 2001. Additionally, the city of Mansfield is planning to realign Harrington Memorial Road, which would add six acres to the installation, to be used as an automobile parking lot. The date of implementation of this plan is in 2002.

J21.2 Wastewater Collection System Description

J21.2.1 Wastewater Collection System Fixed Equipment Inventory

The Mansfield Lahm 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:

?? Oil water separators

?? Storm sewers

J21.2.1.1 Description

The Mansfield Lahm Airport (ANG) wastewater collection system consists of two separate systems: the main base area and the POL area. Both wastewater collection systems operate via a combination of gravity flow and force mains with one exit location per area (for an installation total of two exits). The two wastewater collection systems consist of approximately 460 linear feet of PVC pipe, 338 linear feet of cast iron pipe; and 7,400 linear feet of vitrified clay pipe. Pipes range in diameter from two to eight inches. Pipe depth ranges from four to ten feet without tracer wire or warning tape. The systems include three lift stations (two in the main base area, one in the POL area), ranging from five to seven feet deep; four pre-cast concrete manholes and eight brick manholes ranging from six to 10 feet in depth. Base personnel indicate the capacities of the current systems are adequate for present and future needs.

J21.2.1.2 Inventory

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

TABLE 1

Fixed Inventory

Wastewater Collection System Mansfield Lahm Airport (ANG)

Item	Size	Quantity	Unit	Approximate Year of Construction
PVC Pipe	(in)			
	4	10	LF	1995
	6	25	LF	1995
	8	267	LF	1995
Force Main, PVC Pipe	2	160	LF	1995
Cast Iron Pipe	(in)			
	4	338	LF	1978
Vitrified Clay Pipe	(in)			
	4	270	LF	1952
	4	70	LF	1998
	4	75	LF	1963
	4	1041	LF	1992
	4	50	LF	1979
	6	481	LF	1951
	6	131	LF	1965
	6	194	LF	1950
	6	60	LF	2000
	6	226	LF	1998

Item	Size	Quantity	Unit	Approximate Year of Construction
	6	181	LF	1963
	6	1841	LF	1992
	6	62	LF	1977
	6	146	LF	1997
	6	77	LF	1998
	8	926	LF	1969
	8	800	LF	1950
	8	146	LF	1977
	8	475	LF	1993
Force main, Vitrified Clay Pipe	6	140	LF	1969
Standard Sanitary Sewer Manholes (4 ft diameter)	Depth (ft)			
Brick	6	2	EA	1963
Brick	6	1	EA	1950
Brick	6	1	EA	1965
Brick	8	1	EA	1969
Brick	8	1	EA	1979
Brick	8	1	EA	1950
Brick	10	1	EA	1969
Pre-cast concrete	6	2	EA	1997
Pre-cast concrete	8	1	EA	1995
Pre-cast concrete	10	1	EA	1998
Wastewater Lift/Pump Station				
Lift Station 1, 20 ft deep x 5 ft diameter concrete wetwell		1	EA	1950
Lift Station 2, 10 ft x 5 ft x 5 ft deep, fiberglass tank		1	EA	1979
Lift Station 3, POL Area, 7 ft deep x 3 ft diameter, fiberglass tank		1	EA	1995
Wastewater Pump	(HP)			
Lift Station 1, Duplex Peabody Barnes submersible, model SE302	3	2	EA	1985
Lift Station 2, Duplex Peabody Barnes submersible, model 4SE304	3	2	EA	1986
Lift Station 3, Hydromatic grinder pumps, model SPGEL 200	2	2	EA	1995
Notes:				
PVC = Polyvinyl Chloride				
LF = Linear Feet				
In = Inches				
FT = Feet				
HP = Horsepower				

Item	Size	Quantity	Unit	Approximate Year of Construction
EA = Each				

J21.2.2 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 Mansfield Lahm Airport (ANG)

Qty	Item	Make/Model	Description	Remarks
None				

TABLE 3
Specialized Vehicles and Tools
Wastewater Collection System Mansfield Lahm Airport (ANG)

Description	Quantity	Location	Maker
None			

J21.2.3 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 Mansfield Lahm Airport (ANG)

Qty	Description	Remarks
1	Wastewater Main Base	AutoCAD Release 14
1	Jet Fuel Storage Main Base Complex	AutoCAD Release 14

J21.3 Specific Service Requirements

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

J21.4 Current Service Arrangement

?? **Current Provider:** City of Mansfield

?? **Average Annual Effluent (2000):** 12,675 kGal

?? **Maximum Monthly Effluent:** September 2,550 kGal

?? **Minimum Monthly Effluent:** November 112 kGal

?? **Measurement based on 75% of water consumption**

J21.5 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 J21.6 below.

TABLE 5
New Secondary Meters
Wastewater Collection System Mansfield Lahm Airport (ANG)

Meter Location	Meter Description
None	

J21.6 Monthly Submittals

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

1. Invoice (IAW 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.

J21.7 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.

J21.8 Service Area

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

J21.9 Off-Installation Sites

The Mansfield Lahm Airport (ANG) wastewater collection system includes the main base area as well as the POL area, located southwest of the main base area. A road included under the base lease connects these two areas. The POL area has its own dedicated wastewater collection system, with its own exit and connection to the City of Mansfield owned line.

J21.10 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 Mansfield Lahm Airport (ANG)

Location	Description
None	

J21.11 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 Mansfield Lahm 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 Mansfield Lahm Airport (ANG)

Project Location	Project Description
None	