

**ATTACHMENT J3**

# Youngstown ARS Sanitary Wastewater Collection System

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# J3 Youngstown ARS Sanitary Wastewater Collection System

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## J3.1 Youngstown ARS Overview

Youngstown ARS is located at the Youngstown-Warren Regional Airport in Trumbull County, in northeastern Ohio. Its primary mission is to serve as home of the 910th Airlift Wing, an Air Force Reserve C-130H unit with two flying squadrons and a total of 16 aircraft. A portion of the Wing is devoted to its aerial spray mission. The Wing has nearly 1,300 drilling Air Force Reservists. The installation also hosts a Navy-Marine Corps Reserve Center that is home to nearly 400 Naval and Marine Corps Reservists.

The installation has 59 operational buildings, primarily aviation maintenance, training and administrative facilities. While there are dormitories for temporary lodging, there is no permanent housing on the installation. The Western Reserve Port Authority (a joint venture of Mahoning and Trumbull Counties and the cities of Warren and Youngstown) operates the airport itself, including its three runways, while the Air Force provides full-time fire protection for the entire airport. The Federal Aviation Administration's control tower is located on the installation. The installation also operates an additional assault runway on leased property parallel to the airport's main runway. This assault strip is not contiguous to the installation, has no sanitary connection, and is not considered in this solicitation.

## J3.2 Sanitary Wastewater Collection System Description

### J3.2.1 Sanitary Wastewater Collection System Fixed Equipment Inventory

The Youngstown ARS sanitary 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, valves, controls, treatment plants, and meters. 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 sanitary wastewater collection system privatization are the oil-water separators adjacent to buildings 402 and 403 and the building and fencing surrounding the sanitary wastewater meter.

### J3.2.1.1 Description

The sanitary wastewater collection system consists of approximately 18,800 feet of main, and serves the entire installation. The overall condition of the system is good; while the bulk of the sanitary wastewater collection system was installed between 1950 and 1960, upgrades have extended its useful life significantly. The original system of about 11,300 feet, consisting of vitrified clay pipes, was lined with polyethylene in 1977. Subsequent additions of PVC pipe were made as the installation expanded on the east in the 1980s and 1990s. The system includes one lift station near Building 413; there are no sanitary wastewater treatment facilities.

The industrial wastewater pretreatment system discharges into the sanitary wastewater collection system at the first manhole downstream of Building 309 (the pretreatment plant). That manhole is part of the sanitary wastewater collection system and serves as the demarcation point between the two systems.

### J3.2.1.2 Inventory

**Table 1** provides a general listing of the major sanitary wastewater collection system fixed assets for the Youngstown ARS sanitary wastewater collection system included in the sale.

TABLE 1  
Fixed Inventory  
*Sanitary Wastewater Collection System Youngstown ARS*

Item	Size (in.)	Quantity	Unit	Approximate Year of Construction
PVC Pipe	8 inch	794	LF	1976-1991
PVC Pipe	6 inch	6,090	LF	1976-1991
PVC Pipe	4 inch	494	LF	1982-1991
Slip-Lined Vitrified Clay Pipe	10 inch	1,617	LF	1977
Slip-Lined Vitrified Clay Pipe	8 inch	2,105	LF	1977
Slip-Lined Vitrified Clay Pipe	6 inch	7,387	LF	1977
Slip-Lined Vitrified Clay Pipe	4 inch	189	LF	1977
ACP, Concrete	N/A	N/A	N/A	N/A
Standard Sanitary Sewer Manhole	-----	87	EA	1976-1991
Sanitary Wastewater Lift/Pump Station Near Building 413	2 hp	1	EA	1977
RPIE Emergency Generators for Sewage Equipment	N/A	N/A	N/A	N/A
Sanitary Wastewater Treatment Facility	N/A	N/A	N/A	N/A

Notes:  
ACP = Asbestos Cement Pipe  
HP = Horse Power  
PVC = Polyvinyl Chloride  
LF = Linear Feet  
EA = Each

### J3.2.2 Sanitary 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  
*Sanitary Wastewater Collection System Youngstown ARS*

Qty	Item	Make/Model	Description	Remarks
None				

**TABLE 3**  
Specialized Vehicles and Tools  
*Sanitary Wastewater Collection System Youngstown ARS*

Description	Quantity	Location	Maker
None			

### J3.2.3 Sanitary 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  
*Sanitary Wastewater Collection System Youngstown ARS*

Qty	Item	Description	Remarks
1 Set	Drawings	Sanitary Wastewater Collection System	AutoCad

## J3.3 Specific Service Requirements

The service requirements for the Youngstown ARS sanitary wastewater collection system are as defined in the Section C, *Description/Specifications/Work Statement*. The following requirements are specific to the Youngstown ARS sanitary wastewater collection system and are in addition to those found in Section C. If there is a conflict between requirements described below and Section C, the requirements listed below take precedence over those found in Section C.

There are no additional requirements beyond those listed in Section C.

## J3.4 Current Service Arrangement

Sanitary wastewater is collected from the installation and treated by Trumbull County. A county-owned flow meter in Building 312 measures the quantity of effluent passing into the Mosquito Creek Sewer District System. As required by this contract, the Contractor shall demonstrate the ability to meet and shall establish the Operations and Maintenance requirements to provide sanitary wastewater service to Youngstown ARS.

## J3.5 Secondary Metering

There are no secondary metering requirements.

## J3.6 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 25<sup>th</sup> of each month for the previous month. Invoices shall be submitted to:

910<sup>th</sup> AW/LG/LGC  
Attn: Phyllis Delgros  
Youngstown Air Reserve Station, Unit 25  
3976 King Graves Rd  
Vienna, Ohio 44473-5925

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 25<sup>th</sup> of each month for the previous month. Outage reports shall be submitted to:

910<sup>th</sup> SPTG/CE  
Attn: Base Civil Engineer  
3976 King Graves Road, Unit 37  
Vienna, Ohio 44473-5937  
(330) 609-1060

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 25<sup>th</sup> of each month for the previous month. System efficiency reports shall be submitted to:

910<sup>th</sup> SPTG/CE  
Attn: Base Civil Engineer  
3976 King Graves Road, Unit 37  
Vienna, Ohio 44473-5937  
(330) 609-1060

### J3.7 Infiltration and Inflow (I&I) Projects

IAW Paragraph C.3, Utility Service Requirement, no projects have been implemented by the Government for managing and monitoring I&I.

However, an I&I problem has been identified at Youngstown ARS. A video survey of most of the sanitary wastewater collection system was conducted in Nov 94. A result of survey is included in the technical library. A project to alleviate a portion of the problem was conducted under Project # ZQEL 00-9003 and project drawings are included in the technical library.

### J3.8 Service Area

IAW Paragraph C.4, Service Area, the service area is defined as all areas within the Youngstown ARS boundaries.

### J3.9 Off-Installation Sites

No off-installation sites are included in the sale of the Youngstown ARS sanitary wastewater collection system.

### J3.10 Specific Transition Requirements

IAW Paragraph C.13, Transition Plan, **Table 5** provides a listing of service connections and disconnections required upon transfer.

**TABLE 5**  
Service Connections and Disconnections  
*Sanitary Wastewater Collection System Youngstown ARS*

Location	Description
None	

### J3.11 Government Recognized System Deficiencies

**Table 6** provides a listing of system improvements that the Government has planned. The Government recognizes these improvement projects as representing current deficiencies associated with the Youngstown ARS sanitary 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 Renewal and Replacement Plan process and will be recovered through [Schedule L-2](#). Renewal and Replacement projects will be recovered through [Sub-CLIN AB](#).

**TABLE 6**

System Deficiencies

*Sanitary Wastewater Collection System Youngstown ARS*

Project Location	Project Description
From manhole number 14 to manhole number 18	Replace approximately 1,145 LF of 6 inch pipe with 8 inch PVC.
Sanitary Wastewater Collection System	An I&I problem has been identified at Youngstown ARS. A video survey of most of the sanitary wastewater collection system was conducted in Nov 94. A result of survey is included in the technical library. A project to alleviate a portion of the problem was conducted under Project # ZQEL 00-9003 and project drawings are included in the technical library.
Lift Station near Bldg 413	The base is currently using a portable generator to backup loss of electrical power to lift station/pump station. Portable generator is not part of the sale of the sanitary wastewater collection system. Backup power source is needed.