

ATTACHMENT J4

Barnes ANGB Wastewater System

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J4 Barnes ANGB Wastewater System

J4.1 Barnes ANGB Overview

Barnes ANGB is located at the Westfield-Barnes Municipal Airport, in western Massachusetts. The Base is located on 180 acres in two parcels of land leased from the City of Westfield, and has 49 buildings occupying a total of more than 304,238 square feet.

Barnes ANGB is the headquarters of the 104th Fighter Group, and currently employs approximately 330 full-time personnel during weekday shifts. In addition, the Base supports over 1,000 traditional part-time Air National Guard personnel.

The National Guard Bureau authorized the original unit that became the 131st Fighter Squadron in late 1946. The Squadron received its first aircraft, P-47 Thunderbolts, in 1947, when the Base was established at the northwest corner of the Westfield Municipal Airport. Conversion to Group status took place in 1956 with the formation of the 104th Fighter Group. In 1961, the 104th was called to active duty in France to support the Berlin Airlift for 1 year.

Over the years, several different types of aircraft have been assigned to the Base. The original P-47s were replaced with P-51 Mustangs in 1950. The 131st Fighter Squadron received its first jet, the F-94 Starfire, by 1954. It subsequently received F-86 Sabrejets in 1957, F-84 Thunderstreaks in 1964, F-100 Supersabres in 1971, and, in 1979, the A-10A Thunderbolt II aircraft that are still assigned to the Base today.

Projected future mission requirements have necessitated the renovation or demolition of older facilities and the construction of new facilities. The Barnes ANGB Capital Improvements Program (CIP) emphasizes consolidating existing facilities and maximizing their utilization as much as possible. Over the next 5 years, key projects planned for Barnes ANGB, if implemented, will increase the total square footage of buildings and facilities on Base by approximately 3 percent.

J4.2 Wastewater System Description

J4.2.1 Wastewater System Fixed Equipment Inventory

The Barnes ANGB wastewater 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 wastewater system privatization are:

- Oil/water separators
- Grease traps

J4.2.1.1 Description

The City of Westfield provides wastewater treatment for Barnes ANGB. There are no wastewater treatment facilities on Base. The wastewater utility system consists of polyvinyl chloride (PVC) pipe and older vitrified clay pipe. Wastewater mains and service connections are an average of 4 to 8 feet below grade. Tracer wire is not installed with the PVC and clay pipe.

The sanitary wastewater utility system has two metered discharge connections to the City sewer. The main Base sewer system discharges via a 10-inch gravity sewer to the City's 15-inch sewer located on Falcon Drive. The sanitary wastewater utility system that services the Munitions Area discharges via a 4-inch force main to City sewer connection at the intersection of Airport Industrial Road and Buck Pond Road. The City owns, maintains, and reads the meters.

There are four lift stations at Barnes ANGB: the Building 41 lift station, the Munitions Area lift station, Building 33 lift station and Building 52 lift station. The Building 41 station consists of two submersible 37-hp pumps, controls, and a concrete block building. The Munitions Area lift station consists of two submersible 2-hp pumps, controls and an at grade vault. The Building 33 and Building 52 lift stations are small dual-grinder, 1-hp pumps, including controls housed in subsurface vaults.

Local contractors, on an as-needed basis, perform maintenance of the Barnes ANGB sanitary wastewater collection system. No future major construction, maintenance, repair, or replacement projects are planned.

J4.2.1.2 Inventory

Table 1 provides a general listing of the major wastewater system fixed assets for the Barnes ANGB wastewater system included in the sale.

TABLE 1
Fixed Inventory
Wastewater System Barnes ANGB

Item	Size	Quantity	Unit	Average Approximate Year of Construction
PVC pipe	1¼ -in.	20	LF	1995
	4-in.	480	LF	1995
	6-in.	1,579	LF	1995
	6-in.	130	LF	1999
	6-in.	40	LF	2002

TABLE 1
Fixed Inventory
Wastewater System Barnes ANGB

Item	Size	Quantity	Unit	Average Approximate Year of Construction
	8-in.	910	LF	1995
	8-in.	320	LF	2002
	10-in.	1,455	LF	1995
PVC pipe (force mains)	2-in.	105	LF	2002
	4-in.	3,325	LF	1995
	4-in.	990	LF	1992
Vitrified clay pipe	6-in.	1,360	LF	1955
	8-in.	2,100	LF	1955
Standard sanitary sewer manhole		34	EA	1990
Sewage Lift Station – Building 41				
Pumps, piping, controls, electrical	Large	1	EA	1992
Lift station wet well	Large	1	EA	1992
Lift station building: concrete block	Large	1	EA	1992
Sewage Lift Station – Munitions Area				
Pumps, piping, controls, electrical	Small	1	EA	1992
Lift station wet well	Small	1	EA	1992
Lift station concrete vault	Small	1	EA	1992
Sewage Lift Station – Building 33				
Pumps, piping, controls, electrical	Small	1	EA	1992
Lift station wet well	Small	1	EA	1992
Lift station concrete vault	Small	1	EA	1992
Sewage Lift Station – Building 52				
Pumps, piping, controls, electrical	Small	1	EA	1995
Lift station wet well	Small	1	EA	1995
Lift station concrete vault	Small	1	EA	1995

Notes:

EA = each

LF = linear feet

in. = inch

PVC = polyvinyl chloride

J4.2.2 Wastewater 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 System Barnes ANGB

Qty	Item	Description	Make/Model	Remarks
There are no spare parts included with the system to be privatized.				

TABLE 3
Specialized Vehicles and Tools
Wastewater System Barnes ANGB

Qty	Description	Location	Maker
There are no specialized vehicles or tools included with the system to be privatized.			

J4.2.3 Wastewater 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 System Barnes ANGB

Qty	Item	Description	Remarks
1	Manuals	Lift station component operation and maintenance manuals	Engineering Office
1	Drawings	Base Comprehensive Plan, Waste Water System (G- Tab)	Engineering Office

J4.3 Specific Service Requirements

The service requirements for the Barnes ANGB wastewater system are as defined in the Section C, *Description/Specifications/Work Statement*. The following requirements are specific to the Barnes ANGB wastewater 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.

- The Contractor shall enter into a Memorandum of Understanding with the Barnes ANGB Fire Department for fire protection of all facilities included in the purchase of the utility. The Memorandum of Understanding shall be completed during the transition period and a copy provided to the Contracting officer
- The Contractor shall abide by Barnes ANGB fire protection requirements. The utility system purchased by the Contractor includes the following facilities: Building 41 Sewage Lift Station, Munitions Area Sewage Lift Station, Building 33 Sewage Lift Station and Building 52 Sewage Lift Station. These facilities may or may not include fire alarm systems. Where required by federal, state or local regulations, the Contractor shall maintain the fire alarm system for all facilities owned and operated by the Contractor. The Contractor shall permit Fire Department personnel access to their facilities to perform fire inspections and emergency response.

J4.4 Current Service Arrangement

Barnes ANGB currently discharges its wastewater to the City of Westfield municipal system. The City of Westfield treats all Barnes ANGB wastewater.

Barnes ANGB currently produces an annual wastewater volume of 4,200 kGal averaging 350 kGal per month and 11.5 kGal per day.

J4.5 Secondary Metering

There are currently no requirements for secondary metering of wastewater included in this contract. Any future wastewater secondary metering requested by the Government will be IAW Section C.3, *Future Secondary Meters*.

J4.6 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:

Name: 104 FW/CE
Address: 175 Falcon Drive
Westfield, MA 01085-1482

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:

Name: 104 FW/CE
Address: 175 Falcon Drive
 Westfield, MA 01085-1482

J4.7 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.

- There are no infiltration and inflow projects for the system to be privatized

J4.8 Service Area

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

J4.9 Off-Installation Sites

No off-installation sites are included in the sale of the Barnes ANGB wastewater system.

J4.10 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
 Wastewater System Barnes ANGB

Location	Description
There are no service connections or disconnections for the system to be privatized.	

J4.11 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 Barnes ANGB wastewater 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-3](#). Renewal and Replacement projects will be recovered through [Sub-CLIN AC](#).

TABLE 6
System Deficiencies
Wastewater System Barnes ANGB

Project Location	Project Description
There are no government-recognized system deficiencies for the system to be privatized.	