

BANGOR IAP (ANG) Water Distribution System

Table of Contents

BANGOR IAP (ANG) WATER DISTRIBUTION SYSTEM.....	I
J2 BANGOR IAP (ANG) WATER DISTRIBUTION SYSTEM	1
J2.1 BANGOR IAP (ANG) OVERVIEW.....	1
J2.2 WATER DISTRIBUTION SYSTEM DESCRIPTION.....	1
J2.2.1 Water Distribution System Fixed Equipment Inventory	1
J2.2.1.1 Description.....	1
J2.2.1.2 Inventory	2
J2.2.2 Water Distribution System Non-Fixed Equipment and Specialized Tools	4
J2.2.3 Water Distribution System Manuals, Drawings, and Records	4
J2.3 SPECIFIC SERVICE REQUIREMENTS.....	5
J2.4 CURRENT SERVICE ARRANGEMENT	5
J2.5 SECONDARY METERING.....	5
J2.5.1 Existing Secondary Meters.....	5
J2.5.2 Required New Secondary Meters.....	5
J2.6 MONTHLY SUBMITTALS.....	7
J2.7 WATER CONSERVATION PROJECTS.....	7
J2.8 SERVICE AREA.....	7
J2.9 OFF-INSTALLATION SITES	7
J2.10 SPECIFIC TRANSITION REQUIREMENTS.....	8
J2.11 GOVERNMENT RECOGNIZED SYSTEM DEFICIENCIES	8

List of Tables

Fixed Inventory	2
Spare Parts	4
Specialized Vehicles and Tools	4
Manuals, Drawings, and Records.....	4
Existing Secondary Meters.....	5
New Secondary Meters.....	6
Service Connections and Disconnections	8
System Deficiencies.....	8

J2 BANGOR IAP (ANG) Water Distribution System

J2.1 BANGOR IAP (ANG) Overview

Bangor IAP is located inside the city limits of Bangor, Maine. It is the home of the 101st Air Refueling Wing whose mission is to provide air refueling, airlift and mobility missions. Bangor is approximately 130 miles north of Portland, Maine, which is the largest city in the state of Maine. The base is 260 acres in size, of which 157.97 is leased land and 102.03 is fee-owned land. There are a total of 43 facilities on base: 32 industrial, 6 administrative and 5 services with no family housing. Current base population is approximately 450 personnel during non-drill duty days and increases to approximately 1100 personnel on a drill duty weekend that occurs once per month.

J2.2 Water Distribution System Description

J2.2.1 Water Distribution System Fixed Equipment Inventory

The BANGOR IAP (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, storage facilities, exterior backflow devices, pumps, 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 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:

1. Above ground 285,000 gallon water tank.
2. Bldg.#488 water pump house and all pumps inside.
3. Fire suppression systems protecting two hangers (Bldgs 542 & 496) and the fire suppression supply lines which feed directly from Bldg #488 (Water Pump House).

J2.2.1.1 Description

The Bangor IAP (ANG) water distribution is a dead-end system design. Water service enters the base at one location using a 12-inch service line that feeds a 285,000-gallon above ground water tank and pump house; water flows out of the pump house in a 10-inch service line. The 285,000-gallon above ground water tank and pump house are not-included in the privatization plan.. The distribution system contains approximately 19,410 linear feet of water piping which is mostly black iron pipe

(approximately 12,610 LF) and some ductile iron pipe (approximately 4,550 LF), copper (approximately 1,790 LF) and cast iron (approximately 460 LF). Pipe sizes range from ½ inch to 12 inch in diameter and are buried at depths ranging from 5 feet to 10 feet underground. Approximately 890 LF of 10-inch ductile iron pipe is planned for replacement (see table 8). The installation dates of the system components range from 1955 to 1999. The distribution system also contains 47 fire hydrant assemblies and 33 gate valves. There are no exterior backflow devices, wells, or meters associated with this system that will be privatized.

J2.2.1.2 Inventory

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

TABLE 1
Fixed Inventory
Water Distribution System BANGOR IAP (ANG)

Item	Size (in.)	Quantity	Unit	Approximate Year of Construction
Copper Pipe				
	0.5	137	LF	1987
	0.75	382	LF	1988
	1.50	573	LF	1997
	2	90	LF	1997
	2	125	LF	1991
	2	480	LF	1987
Ductile Iron Pipe				
	3	60	LF	1993
	3	82	LF	1986
	4	80	LF	1995
	4	350	LF	1990
	8	1000	LF	1997
	10	890	LF	1955
	12	2,089	LF	1997

Cast Iron Pipe

6	52	LF	1991
6	410	LF	1984

Black Iron Pipe

8	1,360	LF	1995
8	560	LF	1987
8	320	LF	1985
10	60	LF	1995
12	2,187	LF	1999
12	2,226	LF	1996
12	2,564	LF	1995
12	1,555	LF	1986
12	224	LF	1985
12	1,553	LF	1955

Valve

Cast Iron Gate Valve

4	4	EA	1990
6	2	EA	1991
6	3	EA	1984
8	4	EA	1997
8	3	EA	1987
8	2	EA	1985
12	9	EA	1997
12	6	EA	1985

Fire Hydrants

Hydrant Assemblies (Hydrant/Valve/Block)

3	EA	1999
12	EA	1997
10	EA	1995
1	EA	1991
1	EA	1987
2	EA	1986

J2.3 Specific Service Requirements

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

J2.4 Current Service Arrangement

- Provider Name: Bangor Water District
 - Annual Usage: 8,872 (hundreds) Cubic Feet/Year or 6,636,256gallons/year
 - Average Monthly Usage: 739 (hundreds) Cubic Feet/Month or 552,700 gallons/month
 - Monthly Usage Fluctuations:
 - High - 1,463 (hundreds) Cubic feet/month or 1,094,300 gallons/month
 - Low - 563 (hundreds) Cubic feet/month or 421,100 gallons/month

J2.5 Secondary Metering

J2.5.1 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 J2.6 below.

TABLE 5
Existing Secondary Meters
Water Distribution System BANGOR IAP (ANG)

Meter Location	Meter Description (Type)
None	

J2.5.2 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 J2.6 below.

TABLE 6
 New Secondary Meters
 Water Distribution System BANGOR IAP (ANG)

Meter Location	Meter Description
Bldg.# 416	4 Inch
Bldg.# 417	4 Inch
Bldg.# 418	1 ½ Inch
Bldg.# 420	4 Inch
Bldg.# 421	2 Inch
Bldg.# 422	2 Inch
Bldg.# 423	2 Inch
Bldg.# 425	2 Inch
Bldg.# 486	4 Inch
Bldg.# 488	4 Inch
Bldg.# 489	2 ½ Inch
Bldg.# 491	2 Inch
Bldg.# 493	4 Inch
Bldg.# 494	2 Inch
Bldg.# 496	2 Inch
Bldg.# 497	1 ½ Inch
Bldg.# 500	2 Inch
Bldg.# 505	4 Inch
Bldg.# 510	4 Inch
Bldg.# 512	1 ½ Inch
Bldg.# 513	1 ½ Inch
Bldg.# 514	1 ½ Inch
Bldg.# 515	4 Inch
Bldg.# 518	4 Inch
Bldg.# 525	1 ½ Inch
Bldg.# 529	1 ½ Inch
Bldg.# 530	2 Inch
Bldg.# 536	4 Inch
Bldg.# 537	4 Inch
Bldg.# 538	4 Inch
Bldg.# 540	2 Inch

Meter Location	Meter Description
Bldg # 541	2 Inch
Bldg.# 542	2 Inch

J2.6 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 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.

J2.7 Water Conservation Projects

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

J2.8 Service Area

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

J2.9 Off-Installation Sites

No off-installation sites are included in the sale of the BANGOR IAP (ANG) water distribution system.

J2.10 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 BANGOR IAP (ANG) None

Location	Description
None	

J2.11 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 BANGOR IAP (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 Renewal and Replacement Plan process and will be recovered Schedule L-3. Renewal and Replacement projects will be recovered through Sub-CLIN AB.

Table 8

System Deficiencies
Water Distribution System BANGOR IAP (ANG)

Project Location	Project Description
Maineiac Ave-Plesch Circle: Project # FKNN 992-1303	Replace approximately 890 LF of 10-inch ductile iron water main beginning at the tee and valve at the 10 inch main supply line on Maineiac Ave., near the main gate to the base. The line continues across the parking lot of building 489, and across Ashley St. and around the F-101 static display, where it turns northerly and continues across Glen St. and Maineiac Ave. and terminates at a valve near the intersection of Maineiac Ave. and Plesch Circle.