

Columbus AFB Water Distribution System

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J3 Columbus AFB Water Distribution System

J3.1 Columbus AFB Overview

J3.1.1 Description

Columbus Air Force Base is located in the Black Plains area in northeast Mississippi, approximately nine miles north of downtown Columbus, Mississippi. The City of Columbus is approximately ten miles from the Alabama state line on U.S. Highways 45 and 82 in an essentially rural setting. The almost unrestricted air space surrounding Columbus AFB is almost as valuable to the Air Force as the land itself and is particularly desirable for the student pilot training in the associated aircraft military operating areas.

J3.1.2 Installation Profile

Columbus AFB has three on-base runways and one runway at the auxiliary field at Shuqualak. The base is located on 4,903 acres including easements and right-of-way for runway approach and the drainage ways off-base. Over 218 assigned aircraft and 14 cockpit simulators are used for training the Undergraduate Pilots.

Columbus AFB was established through the efforts of local citizens in an attempt to secure defense industries as well as support the national response to world geopolitical activity. On June 26, 1941, the War Department approved an Army Air Field for the Columbus, MS area. The Department of Agriculture transferred 750 acres to the Army in August 1941 and the federal government leased 3,579 acres from the City of Columbus and Lowndes County, MS. The original mission of the installation was to serve as a twin engine advanced flying school. The onset of WW II expedited activity at the base with the first training beginning on February 9, 1942. Initially named for a local WW I war hero, the installation name was changed to Columbus Army Flying School in April 1942. Over 7000 pilots were trained at the school during WW II.

The installation was deactivated for approximately five years until world events again required a U.S. military build up. In March 1951 the base, renamed Columbus Air Force Base, was reopened. It provided both primary and basic flight training under the supervision of the USAF Air Training Command. In April 1955 the base became part of the Strategic Air Command (SAC) Second Air Force and the 4228th Air Base Squadron was organized. As part of SAC's base dispersal program new and modernized facilities were added to the installation inventory. The leased property was purchased by the federal government in September 1956. In December 1957, Columbus AFB was designated the home base for a B-52 squadron and a KC-135 jet refueling squadron. The first KC-135 of the 901st Air Refueling Squadron arrived on January 7, 1959 and the first B-52 landed on May 28, 1959.

Columbus AFB was returned to the Air Training Command on July 1, 1969 and resumed the mission of training pilots under the command of the 3650th Pilot Training Wing. The current host unit, the 14th Flying Training Wing was activated at the base on June 1, 1972.

As of 1998, there were 901 active duty personnel and 626 military dependents living on base, with 497 active duty and 471 military dependents living off base. There were 1,318 civilian employees. Military retirees in the area number 3,444. There are 171 facilities on

the installation and currently 577 military family housing units. 232 military family housing units were recently demolished and are currently being replaced with 120 new duplex single and two story units, funded and under construction. 100 more military family housing units are scheduled for construction as funding is authorized.

J3.1.3 Mission

The mission statement of the 14th Flying Training Wing is: “To defend the United States of America by training the world’s best pilots and warriors”. The wing vision is to maintain the world’s premier pilot training environment. The Wing Goals are to provide gaining commands top-quality pilots and combat-ready warriors, enhance quality of life, protect and improve equipment and facilities, and embrace the “BLAZE” values of building leaders, advancing integrity, service before self, and excellence in all they do.

The Columbus AFB Specialized Undergraduate Pilot Training (SUPT) syllabus includes a 52-week intensive training program to earn the prestigious silver wings. Students learn visual flight rules, instrument navigation and formation flying through classroom training, full motion and visual system flight simulators and the use of operational trainer aircraft, such as the T-37 “Tweet,” the T-38 “Talon,” and the T-1 “Jayhawk.” Some graduates continue training in the AT-38B aircraft, learning Introduction to Fighter Fundamentals.

Columbus AFB expects to receive the Joint Primary Aircraft Training System aircraft-the T-6A Texan II. The T-6A will replace the Air Force’s T-37 and Navy’s T-34 as the joint primary trainer. The new aircraft will be used to train entry-level aviation students into one of four training tracks: the Air Force’s bomber/fighter track; the Air Force’s airlift/tanker or Navy’s maritime track; the Navy’s strike track; or the Air Force helicopter track.

J3.2 Water Distribution System Description

J3.2.1 Water Distribution System Fixed Equipment Inventory

The Columbus AFB water distribution system consists of all appurtenances physically connected to the distribution system from the point in which the distribution system enters the base 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 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 rate adjustments based on the accuracy of the following description and inventory.

Items specifically excluded from the water system privatization are:

- Dedicated systems for fire protection
- Back flow prevention devices
- Water distribution within the MFH areas

J3.2.1.1 Description

Columbus AFB purchases the majority of its potable water from the City of Columbus Light and Water Department. The base is fed from a 16-inch water main entering near the main gate. Treated water at the base is stored in one of two main elevated storage tanks (EST). Columbus has a City-owned 6-inch master meter that connects to the City water system. Water is delivered by the City at a pressure of about 60 pounds per square inch gage (psig). The base pumps water to the elevated storage tanks and operates the water system between 60 and 70 psig water pressure.

In addition, Columbus AFB has a well system and a third, smaller EST for the MMS area on the main base where two buildings are served.

In recent years, Columbus operated its own well system and water treatment plant. The central water treatment plant was taken out of service around October 1, 1997 and has since been decommissioned and removed. The installation distribution system is in satisfactory condition with an average pipe burial depth between four and five feet. No marker tape or tracer wire has been installed on the system.

Water delivery criteria in the water service agreement includes 1,400 gallons per minute of water continuously available, water safe for human consumption in accordance with current federal, state, and local standards, a chlorine residual between 0.8 and 1.0 mg/l, and 1.0 mg/l fluoride. Water quality is good. Sampling results by the Air Force Bioenvironmental Engineering Service over the last two years indicate safe drinking water. The base is in compliance with the Lead and Copper Rule.

Dedicated systems for fire protection are not considered part of the water distribution system for utility privatization.

CURRENT SITUATION: The City of Columbus Light and Water Department owns the 16 inch water main on Columbus AFB, about ½ mile in length, from the Base East Gate to the potable water delivery point at the Light and Water Department's master meter next to the new clearwell/pumping station. Columbus AFB has granted an easement for this water main and is paying a monthly amortized surcharge of \$1823 to the Light and Water Department. Approximately \$165,000 remains in outstanding surcharge payments.

Housing privatization is scheduled to occur at Columbus AFB in FY 04. Water distribution within the MFH areas is excluded from utility privatization. It will become the property of the housing privatization contractor.

J3.2.1.2 Inventory

Table 1 provides a general listing of the major water distribution system fixed assets for the Columbus AFB water distribution system included in the sale.

TABLE 1
Fixed Inventory
Water Utility System Columbus AFB

Component Description	Size	Quantity	Unit of Measure	Material Type¹	Approximate Year Installed
Piping valves	3/4"	740	EA	PVC	1990
Piping valves	3/4"	1	EA	CI	2002

Component Description	Size	Quantity	Unit of Measure	Material Type¹	Approximate Year Installed
Piping valves	1"	1	EA	CI	1996
Piping valves	1"	1	EA	CI	2000
Piping valves	1"	5	EA	PVC	1958
Piping valves	1-1/2"	1	EA	CI	1972
Piping valves	2"	3	EA	CI	1959
Piping valves	2"	2	EA	CI	1962
Piping valves	2"	1	EA	CI	1972
Piping valves	3"	2	EA	CI	2000
Piping valves	3"	1	EA	CI	2001
Piping valves	3"	1	EA	CI	2002
Piping valves	4"	1	EA	CI	1958
Piping valves	4"	1	EA	CI	1959
Piping valves	4"	2	EA	CI	1962
Piping valves	4"	2	EA	CI	1970
Piping valves	4"	1	EA	CI	1983
Piping valves	4"	2	EA	CI	1997
Piping valves	4"	1	EA	CI	2002
Piping valves	6"	27	EA	CI	1942
Piping valves	6"	1	EA	CI	1956
Piping valves	6"	28	EA	CI	1958
Piping valves	6"	1	EA	CI	1959
Piping valves	6"	1	EA	CI	1961
Piping valves	6"	1	EA	CI	1968
Piping valves	6"	3	EA	CI	1970
Piping valves	6"	1	EA	CI	1976
Piping valves	6"	1	EA	CI	1977
Piping valves	6"	2	EA	CI	1979
Piping valves	6"	1	EA	CI	1981
Piping valves	6"	1	EA	CI	1985
Piping valves	6"	3	EA	CI	1987
Piping valves	8"	31	EA	CI	1942
Piping valves	8"	6	EA	CI	1956
Piping valves	8"	4	EA	CI	1958
Piping valves	8"	22	EA	CI	1961
Piping valves	8"	3	EA	CI	1963
Piping valves	8"	2	EA	CI	1968
Piping valves	8"	1	EA	CI	1979
Piping valves	8"	1	EA	CI	1985
Piping valves	8"	2	EA	CI	1990
Piping valves	8"	1	EA	CI	1992
Piping valves	8"	8	EA	CI	2001
Piping valves	10"	5	EA	CI	1959
Piping valves	12"	2	EA	CI	1942
Piping valves	16"	2	EA	CI	1998
Water distribution piping	3/4"	22,672	LF	PVC	1990
Water distribution piping	3/4"	200	LF	HDPE	2002

Component Description	Size	Quantity	Unit of Measure	Material Type¹	Approximate Year Installed
Water distribution piping	1"	90	LF	CI	1958
Water distribution piping	1"	100	LF	HDPE	1996
Water distribution piping	1"	75	LF	HDPE	2000
Water distribution piping	1-1/2"	90	LF	CI	1942
Water distribution piping	1-1/2"	1,540	LF	CI	1965
Water distribution piping	1-1/2"	380	LF	PVC	1972
Water distribution piping	2"	390	LF	CI	1942
Water distribution piping	2"	9,494	LF	CI	1958
Water distribution piping	2"	1,070	LF	CI	1959
Water distribution piping	2"	200	LF	CI	1961
Water distribution piping	2"	1,590	LF	CI	1962
Water distribution piping	2"	400	LF	CI	1968
Water distribution piping	2"	100	LF	CI	1969
Water distribution piping	2"	210	LF	PVC	1970
Water distribution piping	2"	270	LF	PVC	1971
Water distribution piping	2"	910	LF	PVC	1972
Water distribution piping	2"	60	LF	PVC	1976
Water distribution piping	2"	140	LF	PVC	1980
Water distribution piping	2"	120	LF	PVC	1983
Water distribution piping	2"	180	LF	PVC	1987
Water distribution piping	2"	95	LF	PVC	1990
Water distribution piping	2"	140	LF	PVC	1992
Water distribution piping	2"	10	LF	PVC	1993
Water distribution piping	2-1/2"	59	LF	CI	1959
Water distribution piping	3"	180	LF	CI	1942
Water distribution piping	3"	413	LF	CI	1958
Water distribution piping	3"	200	LF	HDPE	2000
Water distribution piping	3"	200	LF	HDPE	2001
Water distribution piping	4"	4,915	LF	CI	1958
Water distribution piping	4"	200	LF	CI	1961
Water distribution piping	4"	160	LF	CI	1962
Water distribution piping	4"	200	LF	CI	1964
Water distribution piping	4"	260	LF	CI	1969
Water distribution piping	4"	220	LF	CI	1970
Water distribution piping	4"	250	LF	CI	1971
Water distribution piping	4"	260	LF	PVC	1972
Water distribution piping	4"	140	LF	PVC	1980
Water distribution piping	4"	120	LF	PVC	1983
Water distribution piping	4"	170	LF	PVC	1985
Water distribution piping	4"	160	LF	PVC	1987
Water distribution piping	4"	65	LF	PVC	1990
Water distribution piping	4"	230	LF	PVC	1992
Water distribution piping	4"	10	LF	PVC	1993
Water distribution piping	4"	260	LF	PVC	1997
Water distribution piping	4"	350	LF	HDPE	2002
Water distribution piping	6"	10,970	LF	CI	1942
Water distribution piping	6"	1,640	LF	CI	1956

Component Description	Size	Quantity	Unit of Measure	Material Type¹	Approximate Year Installed
Water distribution piping	6"	18,093	LF	DI	1958
Water distribution piping	6"	1,140	LF	CI	1959
Water distribution piping	6"	180	LF	CI	1961
Water distribution piping	6"	200	LF	CI	1968
Water distribution piping	6"	920	LF	CI	1970
Water distribution piping	6"	1,250	LF	CI	1976
Water distribution piping	6"	850	LF	CI	1977
Water distribution piping	6"	580	LF	CI	1979
Water distribution piping	6"	310	LF	HDPE	1981
Water distribution piping	6"	1,900	LF	HDPE	1986
Water distribution piping	6"	930	LF	HDPE	1958
Water distribution piping	8"	9,740	LF	CI	1942
Water distribution piping	8"	10,246	LF	DI	1958
Water distribution piping	8"	3,360	LF	DI	1959
Water distribution piping	8"	9,550	LF	DI	1961
Water distribution piping	8"	1,540	LF	DI	1963
Water distribution piping	8"	2,175	LF	DI	1971
Water distribution piping	8"	380	LF	HDPE	1984
Water distribution piping	8"	1,020	LF	HDPE	1987
Water distribution piping	8"	1,480	LF	HDPE	1992
Water distribution piping	8"	80	LF	DI	2001
Water distribution piping	10"	5,660	LF	DI	1959
Water distribution piping	12"	1,920	LF	CI	1942
Water distribution piping	16"	3,112	LF	DI	1998
Fire hydrants	4.5" valve size	42	EA		1942
Fire hydrants	4.5" valve size	5	EA		1956
Fire hydrants	4.5" valve size	83	EA		1958
Fire hydrants	4.5" valve size	10	EA		1961
Fire hydrants	4.5" valve size	1	EA		1968
Fire hydrants	4.5" valve size	8	EA		1969
Fire hydrants	4.5" valve size	2	EA		1970
Fire hydrants	4.5" valve size	6	EA		1972
Fire hydrants	4.5" valve size	1	EA		1976
Fire hydrants	4.5" valve size	5	EA		1979
Fire hydrants	4.5" valve size	1	EA		1981
Fire hydrants	4.5" valve size	2	EA		1985
Fire hydrants	4.5" valve size	7	EA		1986
Fire hydrants	4.5" valve size	1	EA		1987
Fire hydrants	4.5" valve size	1	EA		1989
Fire hydrants	4.5" valve size	3	EA		1990
Fire hydrants	4.5" valve size	2	EA		1992
Water Storage Tank Fac # 842 (Elevated)	500,000 gallon	1	EA	Steel	1941
Water Storage Tank Fac # 355 (Elevated)	250,000 gallon	1	EA	Steel	1961
Water Storage Tank Fac # 1814	10,000 gallon	1	EA	Steel	1959

Component Description	Size	Quantity	Unit of Measure	Material Type ¹	Approximate Year Installed
(Elevated)					
Cathodic Protection System		3	EA		1984
Well Pump House Fac # 1812		134	SF	CMU	1959
Transfer Pump/Clearwell Bldg		1,982	SF	CMU	1998
Turbine Pumps	500 GPM	3	EA	CI	1998
Motor Control Centers		3	EA		1998
Well Domestic Water	144 ft	1	EA		1972
Chlorination System		1	EA		1989
Transfer Pump	25 hp	1	EA		1989
Jockey Pump	3 hp	1	EA		1989
Water supply meters					
turbine, flanged, 650 GPM	4"	2	EA		1985
domestic/commercial 160 GPM	2"	1	EA		1985

Legend:

CI - Cast Iron PVC - Polyvinyl Chloride
 HDPE - High Density Polyethylene
 LF - Linear Feet DI - Ductile Iron
 GPM - Gallons Per Minute EA - Each
 SF - Square Feet CMU - Concrete Masonry Unit

Notes:

1. Drawings furnished by Columbus AFB do not indicate material types. Material types have been assumed and may not necessarily reflect the actual material in place.

J3.2.2 Water Distribution System Non-Fixed Equipment and Specialized Tools

Table 2 lists the other ancillary equipment (spare parts) and **Table 3** lists specialized vehicles and tools included in the sale. Offerors shall field verify all equipment, vehicles, and tools prior to submitting his bid. Offerors shall make his own determination of the adequacy of all equipment, vehicles, and tools.

TABLE 2

Spare Parts
 Water Distribution System Columbus AFB

Qty	Item	Make/Model	Description	Remarks
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NONE

TABLE 3

Specialized Vehicles and Tools
 Water Distribution System Columbus AFB

Description	Quantity	Location	Maker
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NONE

J3.2.3 Water Distribution System Manuals, Drawings, and Records Inventory

Table 4 provides a listing of manuals, drawings, and records that will be transferred with the system.

TABLE 4
Manuals and Records
Water Distribution System Columbus AFB

Qty	Item	Description	Remarks
1	CD	UTILITY SYSTEM DRAWINGS	AUTOCAD REL 2002
1	MANUALS, TESTS, RECORDS		MADE AVAILABLE FOR REFERENCE IN BASE TECH LIBRARY

J3.3 Specific Service Requirements

The service requirements and standards for the Columbus AFB water distribution system are as defined in the Section C, *Description/Specifications/Work Statement*. The following standards are specific to the Columbus AFB water distribution system and are in addition to those found in Section C. If there is a conflict between standards described below and Section C, the standards listed below take precedence over those found in Section C.

- As to digging permits, the Contractor will be required to mark his own utilities and will be responsible for initiating, officiating, and tracking digging permits for his own utilities. IAW Mississippi Code of 1972 Section 77-13-5 and -11, the Contractor will provide not less than five (5) and not more that ten (10) working days notice of any needed excavations to Mississippi One Call System and to said Utilities Privatization Administrative Contracting Officer so the location of underground utilities may be located and marked.
- The utility water service for Columbus AFB is currently monitored and controlled from the Energy Management and Control System (EMCS) in Building 385, Civil Engineers, as defined by the EMCS points log available in the Technical Library. Water service equipment monitored and controlled by the EMCS are such items as major valves, high service pumps, clear well levels, and multiple above ground tank storages. The owning water utility contractor shall monitor and control the water system 24/7 in accordance with service standard criteria.
- The Contractor shall perform flow testing and maintenance of fire hydrants and water lines IAW National Fire Protection Association standards. The government reserves the right to review flow test records. The owning water contractor shall be required to meet all unique and specific fire-flow requirements for Columbus AFB, which will be listed and available in the Utility Privatization Technical Library.

J3.4 Current Service Arrangement

The majority of potable water is supplied by the Columbus Light and Water Department. Water delivery criteria in the water service agreement includes 1,400 gallons per minute of water continuously available, water safe for human consumption in accordance with current federal, state, and local standards, a chlorine residual between 0.8 and 1.0 mg/l, and 1.0 mg/l fluoride. Water quality is good. Sampling results by the Air Force Bioenvironmental Engineering Service over the last two years indicate safe drinking water. The base is in compliance with the Lead and Copper Rule. Monthly water meter readings for the fiscal year ending September 2002 indicate an average daily demand of 460 kgd. The high usage month was August 2002 with 17,047 kgal and the low month was March 2002 with 7,472 kgal. Base personnel reported that in the past the capacity of the 1.0-mgd water plant was exceeded. The water service agreement requires delivery of up to 1,400 gpm, or 2000 kgd. Base personnel report no serious low-pressure problems during normal operations. The base endeavors to modulate the elevated storage tanks between full and 2/3-full to keep the water fresh and to maintain pressure and fire fighting reserve.

J3.5. Secondary Metering

J3.5.1 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 once a month for all secondary meters IAW Paragraph C.3 and J3.6 below.

TABLE 5
Existing Secondary Meters
Water Distribution System Columbus AFB

Meter Location	Meter Description (Type)
BLDG 160A BASE EXCHANGE	Water supply meters, turbine, flanged, 4" dia, to 650 GPM
BLDG 160B COMMISSARY	Water supply meters, turbine, flanged, 4" dia, to 650 GPM
BLDG 160C CREDIT UNION	Water supply meters, domestic/commercial 2" dia, to 160 GPM

J3.5.2 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 J3.6 below.

TABLE 6
New Secondary Meters
Water Distribution System Columbus AFB

Meter Location	Meter Description
BLDG 335 ART AND CRAFTS CENTER	KGALS
BLDG 350 CAR WASH	KGALS
BLDG 566 GOLF MAINT SHED	KGALS
BLDG 570A GOLF CLUB HOUSE	KGALS
BLDG 570B GOLF COURSE	KGALS
BLDG 736 BOWLING CENTER (SNACK BAR)	KGALS
BLDG 944 COLUMBUS CLUB	KGALS
BLDG 148 OUTDOOR RECREATIONS	KGALS
BLDG 1100, HOSPITAL MASTER METER	KGALS
BLDG 1810, ROD AND GUN CLUB	KGALS

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 25th of each month for the previous month. Invoices shall be submitted to:

Name:	Utility COTR	Utility Contract Administrator
Address:	14 CES/CEOC 555 Simler Blvd Columbus AFB, MS 39710	14 CONS/LGC 555 Seventh St, Bldg 724 Columbus AFB, MS 39710
Phone number:	662-434-7403	

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:

Name:	Utility COTR	Utility Contract Administrator
Address:	14 CES/CEOC 555 Simler Blvd Columbus AFB, MS 39710	14 CONS/LGC 555 Seventh St, Bldg 724 Columbus AFB, MS 39710
Phone number:	662-434-7403	

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:

Name:	Utility COTR	Utility Contract Administrator
Address:	14 CES/CEOC	14 CONS/LGC

555 Simler Blvd
Columbus AFB, MS 39710
Phone number: 662-434-7403

555 Seventh St, Bldg 724
Columbus AFB, MS 39710

J3.7 Water Conservation Projects

IAW C.3, Utility Service Requirement, the following projects have been implemented by the Government for conservation purposes.

There is a current water service contract with Nashville Chemical for chemical water treatment for HVAC boilers, cooling towers, etc. At UP water contract award, current or new requirements for industrial water treatment may be either assumed by the UP contractor, kept by Columbus AFB in entirety, or negotiated as an extension of the existing water service contract between the UP contractor and Columbus AFB.

J3.8 Service Area

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

J3.9 Off-Installation Sites

No off-installation sites are included in the sale of the Columbus AFB water distribution system.

J3.10 Specific Transition Requirements

IAW Paragraph C.13, Transition Plan, **Table 7** lists service connections and disconnections required upon transfer.

TABLE 7
Service Connections and Disconnections
Water Distribution System Columbus AFB

Location	Description
NONE	

J3.11 Government Recognized System Deficiencies

Table 8 provides a listing of system improvements that the Government has planned. The Government recognizes these improvement projects as current deficiencies associated with the Columbus AFB 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 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 AB.

TABLE 8
System Improvement Projects
Water Distribution System Columbus AFB

Project Location	Project Description
TBD	Project 99-3008: Erect 1M Gal Elevated Water Storage Tank, including site improvements, monitoring, and pavements (new elevated tank needed to increase water storage capacity for fire protection and domestic water use in case of extended fire fighting water resources depletion); required fire flow rate is 2000 GPM for minimum 4 hour fire fighting capability.
FAC 355/842/1814	Project 99-2004E: Sandblast and paint the exterior of three water towers (Facilities 355, 842, and 1814). Apply new corrosion resistant sealant to the interior walls. Provide/install a new sacrificial anode (cathodic protection) system. Reapply the AETC symbols, wording, stripes, etc.
FAC 9169	Project EEPZ011041: Install double check valve assemblies at fire systems at following facilities: 155, 158, 160, 218, 262 (2), 268 (2), 366, 386, 410, 414, 440 , 510, 547, 550, 555, 708, 944, 995, 1100, 2048 to prevent back-flow into water distribution main.
FAC 603	Project EEPZ98202001: Float switches at tank tops hard wired to Facility 603 and to well pumps. System unreliable due to age, deterioration.
Bldg 268	Project EEPZ972021J: Change water supply T-37/T-38 hydraulic pumps to chilled water. Present water source contaminating heat exchangers. Heat exch. failure causes shutdown training device