NAVAL SURFACE WARFARE CENTER
CARDEROCK DIVISION
WEST BETHESDA, MD AND PHILADELPHIA, PA
PERFORMANCE WORK STATEMENT
FOR
BASE SUPPORT SERVICES
SECTIONS C.11 THROUGH C.13
PUBLIC WORKS FACILITIES MAINTENANCE

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PERFORMANCE WORK STATEMENT
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SECTION 11
PUBLIC WORKS
FACILITIES MAINTENANCE

SECTION C.11 GENERAL REQUIREMENTS AND INFORMATION

C.11.1 INTRODUCTION

The Public Works Facilities Maintenance function at NSWCCD Headquarters is performed by the Facilities and Model Fabrication Department herein referred to simply as "Public Works" for brevity. The Public Works Facilities Maintenance portion of the PWS in broken into three sections:

? SECTION 11: Public Works Facilities Maintenance - General Requirements and Information

? SECTION 12: Public Works Facilities Maintenance Specific Tasks – Firm Fixed Price Requirements

? SECTION 13: Public Works Facilities Maintenance - Indefinite Quantity Work

The Service Provider shall furnish all labor, whether multi-trade, single trade, or subcontracted, to perform the operations, maintenance and services specified herein. The Service Provider shall furnish all facilities, services, equipment, tools, and transportation to perform the operations, maintenance, and services specified herein unless specified otherwise as Government-Furnished in Section C.3 or the respective attachments provided in Sections C.11, C.12 or C.13.

C.11.2 GENERAL INFORMATION AND REQUIREMENTS

C.11.2.1 MISSION STATEMENT

The Facilities and Model Fabrication Department's mission is to provide the Carderock Division with well maintained facilities at all sites, and provide prototype manufacturing and industrial support capability to technical codes according to their needs.

C.11.2.2 HOURS OF OPERATION

C.11.2.2.1 Normal Work Hours

Normal Base Work hours at NSWCCD Headquarters are Monday through Friday from 0600-1800. Most Public Works Facilities Maintenance and Repair services are conducted during these normal work hours. However, an emergency work service

capability must be available 24 hours per day, 365 days per year.

C.11.2.2.2 Work Hour Changes

If the Service Provider desires to carry on work on weekends, holidays or outside the hours specified above, the Service Provider shall obtain the written approval of the Government Representative.

C.11.2.3 WORK SITE LOCATIONS AND SITE SUPPORT

C.11.2.3.1 Work Site Locations

The Service Provider shall provide the services stated herein primarily at the Naval Surface Warfare Center, Carderock Division Headquarters, West Bethesda, Maryland.

C.11.2.3.2 Site Support

In addition to the primary work at NSWCCD Headquarters, the Public Works maintenance operation occasionally provides support to other NSWCCD sites identified in Section C.1. This work is infrequent and will be covered under the Indefinite Delivery/Indefinite Quantity (ID/IQ) section of this PWS.

C.11.2.4 GOVERNMENT FURNISHED PROPERTY AND SERVICES

C.11.2.4.1 General

The Government will furnish or make available to the Service Provider for use in the performance of the Public Works Facilities Maintenance function, the Government Furnished Equipment, Materials and Supplies described below and as listed in the referenced attachments. Specific requirements regarding Government Furnished Property and Services are delineated in Section C.3 Government Furnished Property and Services.

C.11.2.4.2 Government-Furnished Facilities

The Government will furnish the facilities listed in Attachment C.3-1, Government Furnished Facilities, for use by the Service Provider in the performance of functional requirements described in this section of the PWS.

C.11.2.4.3 Government Furnished Equipment

The Government will furnish the equipment listed in Table 1 of Attachment C.11-1. Government Furnished Equipment and the attachments cited in the respective subsections of this PWS for carrying out the requirements of the Public Works Facilities Maintenance function described herein. The Government will provide and the Service Provider shall use PWTools software for work control of PW-FM requirements.

For Public Works, the Service Provider shall replace all GFE except computers and computer peripherals as specified in Section C.3 and vehicles, as specified below.

C.11.2.4.3.1 Vehicles

The PW-FM operation is providing a combination of Government owned and GSA leased vehicles as GFE. (See Table 2 of Attachment C.11-1. Government Furnished Equipment.) During the period covered by this contract, the Government will continue to transition the remainder of Government owned vehicles to GSA leased vehicles with the transition expected to be completed by Fiscal Year 2004.

Accordingly, the Government will replace PW-FM Government furnished vehicles with like or similar type vehicles whether Government owned or GSA leased vehicles pursuant to the provisions of Section 3.

C.11.2.4.4 Government Furnished Materials and Supplies

The Government will furnish at the Contract start date, the on-hand quantities of the parts, materials and supplies listed in Attachment C.11-2. Government-Furnished Materials and Supplies. The Government will also provide to the Service Provider any materials, parts, supplies, replacement equipment and appliances that are on order, but not received, as of Contract start date.

Pursuant to Section C.3. the Service Provider shall replenish all materials and supplies used in the performance of the Public Works maintenance and repair functions described herein and the associated support functions.

C.11.2.5 SERVICE PROVIDER'S RESPONSIBILITIES

C.11.2.5.1 Specific Services

The Service Provider shall provide Public Works Support Services including all operations and maintenance of equipment, systems and components required to provide and perform the services specified herein. Services include:

- Heating, Ventilation and Air Conditioning and Refrigeration (HVAC&R)
- Building Electrical Systems
- Sanitary Sewage System
- Storage Tanks
- Air Compressor Equipment and Distribution Systems
- Ventilation and Exhaust Systems
- Perimeter Fence
- Potable Water Supply Distribution System
- Ceremonial Support
- Explosives Grounding and Lightning Protection System
- Facilities and Structures
- Building Signs

C.11.2.5.2 Items Specifically Excluded

Due to on-going initiatives within the Navy, there are selected areas of the Public Works Operation typically associated with Base Support that were either not announced or have specifically been excluded from this PWS as described below.

C.11.2.5.2.1 Utilities

Pursuant to the Navy's Utilities Privatization initiative, NSWCCD specifically excluded from this PWS work related to utilities and utilities related buildings as defined in Navy Comptroller Manual Volume 3. (See the definition of utilities in

Section C.2) For clarification regarding scope of work covered by the Public Works-Facilities Maintenance portion of this PWS, each subsection of Section C.12 includes specific applicable definitions of the systems and components included and the work requirements thereto.

C.11.2.5.2.2 Naval District Washington and Naval Facilities Engineering Command (NAVFAC) Contracts

NSWCCD makes extensive use of existing Naval District Washington (NDW) PW Regional Contracts for much of the recurring maintenance. The work included in these regional type contracts is not part of this PWS. These contracts cover fire systems, elevator, A/C, and electrical service and general construction, office relamping and minor construction, alterations and repairs. All of the work in these contracts is considered as ID/IQ level of effort.

Further, NSWCCD turns to NAVFAC for construction contracts and this work is excluded from the PWS. The Government will continue to use these regionally competed NDW maintenance contracts as well as NAVFAC contracting for construction related requirements.

C.11.2.5.3 Management

C.11.2.5.3.1 Work Schedule

The Service Provider shall schedule work so as not to cause interference with the normal occurrence of Government business. In those cases where some interference is unavoidable, the Service Provider shall make every effort to minimize the impact of the interference and its effects. All work schedules required shall be submitted to and be approved by the Government Representative. In no event shall the Service Provider change approved work schedules without the prior consent of the Designated Government Representative.

C.11.2.5.3.2 Annual Work Schedule

Not later than 60 calendar days prior to the Contract start date or the beginning of any option period, the Service Provider shall submit to the Designated Government Representative an annual work schedule of planned performance of work for the contract performance period. Preventive Maintenance services shall be identified by building or area location, equipment number, PM number, etc., as applicable with the scheduled completion date of performance indicated. The schedule shall indicate, by month, all services to be accomplished, the frequency of the services, and the location to be accomplished. No changes will be made to the approved schedule without prior approval of the designated Government Representative. The Government reserves the right to establish priorities and to defer and/or delete work.

C.11.2.5.3.3 Monthly Work Schedule

Seven (7) days before the first of the month, the Service Provider shall develop and submit a Monthly Work Schedule that identifies the following month's schedule for maintenance of the equipment/systems and services specified herein. The Government reserves the right to establish priorities and to defer and/or delete work. No changes will be made to this schedule without prior approval of the Government.

C.11.2.5.4 Automated Work Control System

The Service Provider shall utilize the government-provided PWTools automated Work control system to record service work, Indefinite Quantity (IQ) and Preventive Maintenance work in a database format throughout the life of this contract. Each record of the database shall contain work description requirements of service, IQ or Preventive Maintenance work. In addition, it shall contain the actual number of work hours used to perform the requirement; material used; cost of material; cost of labor; wage determination, i.e., Davis Bacon Act (DBA) or Service Contract Act (SCA); trade discipline (i.e., pipefitter, electrician, HVAC mechanic, etc.) and date and time the requirement was completed. PWTools has a report printing capability. Reports may contain all records within the database or selected records meeting desired criteria. Report information may require grouping by common elements and numerical or alphabetical sorting. The system is linked, by a Government-supplied network interface card, from the Government service call work reception desk to the Service Provider occupied facility.

C.11.2.6 DRAWINGS AND AS-BUILTS

Drawings and As-Builts of facilities and utilities are on electronic file in the Complex "N" engineering blueprint room in the Public Works Department. The Service Provider will be allowed access to all available records, as-builts and drawings. It should be noted that not all file drawings are on reproducible media.

C.11.2.7 PERFORMANCE REQUIREMENTS

The Service Provider shall meet the Performance Requirements contained in Attachment C.11-6. Performance Requirements Summary.

C.11.2.8 REQUIRED REPORTS

The Service Provider shall maintain management and maintenance records and prepare and submit all management reports, maintenance reports, and operating procedures specified in Attachment C.11-3. Reports and Submittals. The Service Provider shall use the Government provided PWTools to provide a cumulative Monthly Work Summary Report by the 10th of the month for the preceding month. The report shall be sequential and shall contain all the information listed above, providing information by a given subject, i.e., trade discipline, wage determination, facility, etc.; and providing data in sequential order such as date, facility, etc. Files, records, logs, material procurement records or any other documentation specified herein shall be made available to the Government for review upon request. All records and copies of reports and automated databases/records shall be turned over to the Government Representative within five (5) calendar days following contract completion.

C.11.2.9 DIRECTIVES, PUBLICATIONS AND FORMS

Publications, directives and instructions applicable to the operation, maintenance and repair services of equipment, systems, and components identified within the Public Works Sections of this PWS are delineated in Attachment C.11-4. Publications, Directives and Instructions. The Service Provider is responsible for identifying and performing the services in accordance with the appropriate publication, directive or instruction.

C.11.2.10 CERTIFICATIONS, LICENSES AND PERMITS

The Service Provider shall obtain all licenses, appointments and permits required by applicable Navy, DOD, Federal, State and local laws for the accomplishment of the work within this Contract. Evidence of such permits, appointments and licenses shall be provided to the Government Representative prior to commencement of work.

C.11.3 DEFINITIONS, ABBREVIATIONS, AND ACRONYMS

Definitions, abbreviations and acronyms relevant to the Public Works functions described herein are provided in Attachment C.11-5. Definitions, Abbreviations and Acronyms. For all general definitions, abbreviations and acronyms refer to Section C.2 of this PWS.

C.11.4 PERSONNEL REQUIREMENTS

C.11.4.1 GENERAL

All Service Provider personnel shall be trained and knowledgeable in all safety requirements prior to performing any operation and maintenance on any of the facilities, equipment and systems, to include components therein, identified within this Contract. Applicable documents include OPNAVINST 5100.23, 29 CFR 1910 (General Industry Standards), OSHA Certified Competent Person, the COE EM Safety Manual and 29 CFR 1926 (Construction Industrial Standards).

C.11.4.2 SPECIFIC TRAINING, QUALIFICATIONS, CERTIFICATIONS, AND LICENSES

Service Provider personnel performing operation and maintenance on specific equipment/systems shall have the proper documented training, qualifications, certifications and licenses as required prior to commencing any such operations and maintenance. The Service Provider shall maintain, in a central location, files on personnel which document the required training, qualifications, certifications and licenses. These files shall be made available to the Government upon request.

The Service Provider shall provide at Contract start date, personnel that meet the specified requirements for the following functional areas:

C.11.4.2.1 Gas Free Requirements

The Service Provider shall have personnel certified pursuant to NAVSEA S6470-AA-SAF-010, Gas Free Engineering Program and the American National Standards Institute (ANSE) American National Standard ANSI Z117.1-1989, Safety Requirements for Confined Spaces.

C.11.4.2.2 Heating, Ventilation, Air Conditioning, and Refrigeration

Heating, ventilation, air conditioning and refrigeration (HVAC&R) operation and maintenance personnel must have four (4) years of diverse, quality experience maintaining/repairing air conditioning systems to include 200-ton units. Experience must have included major work on centrifugal chillers and reciprocating compressors. Heating, air conditioning and refrigeration operation and maintenance personnel must have passed the registered Environmental Protection Agency (EPA) test certifying competency for handling refrigerant types I and II and must carry a current certification card. Refrigeration systems operation and maintenance personnel shall have a minimum of four (4) years experience in servicing refrigeration systems of all types. Heating, air conditioning and refrigeration operation and maintenance personnel must have experience in troubleshooting electronic controls, timers, relays and complex control panels. All HVAC&R Mechanics shall have CFC Certifications, Type 1, 2 and 3

AKA Universal Certification Card. Heating, ventilation, air conditioning and refrigeration operation and maintenance personnel must have experience installing, servicing, programming and repairing multiple compressor refrigeration controls, multi-zone air conditioning control systems and electronic chiller controls. They shall also maintain an Adult CPR card certified by The American Red Cross or similar training institution.

C.11.4.2.3 Electrical

Personnel performing operation and maintenance of electrical systems, equipment, and components shall have completed an apprentice program or have a minimum five (5) years experience installing/repairing panel boards, circuit breakers, power and lighting branch circuits, lighting systems, motor controllers, monitoring and controlling distribution systems and components. They shall have an Electrical Safety Certificate of Training as per OSHA 29 CFR Paragraphs 1910.331 through 1910.335. They shall also maintain an Adult CPR card certified by the American Red Cross or similar training institution.

C.11.4.2.4 High Voltage Electrical (600 Volt or Higher)

High voltage operation and maintenance personnel shall have completed a certified apprentice program or have a minimum of five (5) years experience in this field. They shall have Electrical Safety Certificate of Training as per OSHA 29 CFR Paragraphs 1910.269 and 1910.331 through 1910.335 and High Voltage Training (600v to 2400v). They shall also maintain an Adult CPR card certified by the American Red Cross or similar training institution.

C.11.4.2.5 Grounding Systems

Grounding system operation and maintenance personnel shall be qualified in accordance with NAVSEA OP-5 Volume 1 and shall have completed a training course in explosives grounding, Electrical Explosives Safety for Naval Facilities, AMMO-C-25.

C.11.4.2.6 Generators

Generator operation and maintenance personnel shall have at least five (5) years experience load testing, maintaining, connecting and operating fixed and portable generators

C.11.4.2.7 Mechanical

Personnel performing operation, maintenance and repair of mechanical systems and components shall have completed an apprentice program or have a minimum five (5) years experience at the journeyman level. This includes installing/repairing piping and tubing systems and components used for transfer of gases, compressed air, water, wastewater; plumbing fixtures and appliances and steam and hot water heating systems and components.

C.11.4.2.8 Backflow Preventers

Personnel maintaining or repairing back flow preventers shall meet certification requirements of the American Water Works Association, Maryland State and Washington Suburban Sanitary Commission.

C.11.4.2.9 Welding

Personnel performing welding services shall have completed an apprentice program or have a minimum five (5) years experience at the journeyman level and meet requirements for certification in accordance with AWS D1.1, Structural Welding Code. They shall also maintain an Adult CPR card certified by the American Red Cross or similar training institution

C.11.4.2.10 Structural

Personnel performing maintenance and repair of building structural components shall have a minimum of four (4) years experience at the journeyman level installing/repairing floors, walls, ceilings, doors, windows, stairs, bathroom fixtures and accessories, kitchen fixtures and accessories. Personnel performing sheet metal services shall have completed an apprentice program or have a minimum five (5) years experience at the journeyman level.

C.11.4.2.11 Safety and Health

The Service Provider shall ensure that appropriate personnel obtain the following training:

- Asbestos Awareness
- Lead Safety Awareness
- Sediment Control
- Backflow Prevention
- Ditch Shoring
- Spill Prevention/Response
- Hot Work Permit Requirements
- CPR/First Aid
- Confined Spaces
- Hazard Communications
- Heat Stress
- Sight and Hearing Conservation
- Respirator Training

C.11.4.2.12

C.11.5 WORK CONTROL

C.11.5.1 GENERAL REQUIREMENTS

C.11.5.1.1 Work Coverage

The Service Provider shall:

C.11.5.1.1.1 Receive requests 24 hours per day, seven (7) days per week for service, assistance, or any other problem relating to the equipment, systems, and services

identified herein.

C.11.5.1.1.2 Respond to emergency requests for service to correct any defect, malfunction, or breakdown of or within any equipment, system or service specified herein which impacts or could potentially impact station operations; quality of life; safety or security of personnel or property; station fire prevention, control and suppression; or which causes or could cause violations of Navy, DOD, Federal, State, or local laws and regulations or damage Government or private property.

C.11.5.1.1.2.1 Response to emergency work includes arrival at the site of the defect, malfunction or breakdown, and commencement of corrective action within 15 minutes of notification during normal work hours and within two (2) hours of notification outside of normal work hours. Continue corrective actions until: hazards to personnel have been eliminated; potential loss or damage to Government or private property has been eliminated or existing loss or damage has been controlled; essential services have been restored; and violations in Navy, DOD, Federal, State or local laws have been abated and controlled.

C.11.5.1.1.3 Respond to requests for services or assistance, not of an emergency nature, on any equipment, system or service specified such that services are restored and repair of the defect, malfunction or breakdown is completed within five (5) working days from the date the request for service was received unless notification is submitted as cited below.

C.11.5.1.1.4 Provide notifications and request approvals in accordance with the following:

C.11.5.1.1.4.1 When requested, provide to the Government, within one (1) workday, a labor hour estimate to validate labor utilized when responding to emergency and non-emergency requests for services. Use R.S. Means for estimating to the maximum extent possible.

C.11.5.1.1.4.2 Schedule maintenance and repair work requiring shutdown of equipment, but not of emergency nature, at a time of minimum demand and disruption of operational services.

C.11.5.1.1.4.3 Provide verbal reports on the operational or maintenance status of any equipment/systems specified herein within one (1) hour of request by the government.

C.11.5.1.1.4.4 Provide notifications and request approvals in accordance with the following:

? Notify the Government immediately upon discovering any emergency condition that could impact operations, safety, health or any utility service.

? Notify the Government immediately upon being notified or identifying any violation of Navy, DOD, Federal, State or local laws, regulations and codes.

? Except in emergency situations, submit a written request for approval a minimum of five (5) working days in advance of any inspection, preventive maintenance, construction, equipment installation or any other work which might cause disruptions to operations, services or utilities.

- Notify the Government in writing within one (1) workday of determining that services cannot be restored or the repair completed within five (5) workdays. Notification shall include a justification for the delay; a complete description of the maintenance requirement; and the anticipated completion date. If equipment, systems, parts or materials receipt is the cause of the delay, in addition to the above, provide a description of the equipment, systems, parts or material to include model number, size, manufacturer, vendor, etc. Also provide a statement as to the Service Provider's efforts to acquire the material in the most expeditious manner and the expected receipt date.
- Implement all necessary work control procedures to ensure fully adequate and timely completion of work requirements, as well as to permit tracking of work in progress.
- Plan and schedule work to assure material, labor, and equipment are available to complete work requirements within the specified time limits and in conformance with the quality standards established herein.

C.11.5.1.2 Records

Using the Government provided PWTools automated work control system the Service Provider shall maintain an accurate and complete record of all requests received. Records shall contain a minimum of: date and time of request, name of person taking call, requestor's name and phone number, a description of the problem/requested service, the site of the required service, action taken and the priority (emergency or non-emergency) assigned to the request.

C.11.5.2 PERFORMANCE AND MATERIALS STANDARDS

C.11.5.2.1 General Requirements

All Public Works services shall be accomplished in accordance with approved and accepted standards of industry; in compliance with equipment manufacturers' recommendations; conform to applicable NSWCCD, local, state and Federal standards; and meet all building and safety codes. Performance shall meet the following:

C.11.5.2.1.1 All mechanical and electrical systems and equipment maintained in good operating condition.

C.11.5.2.1.2 Mechanical equipment repairs shall restore equipment/systems to their design capacity and efficiency, less normal wear and tear. Repair parts shall be compatible with equipment and of at least equivalent quality to parts being replaced. All repairs shall be in conformance with equipment manufacturers' recommendations and applicable codes and standards.

C.11.5.2.1.3 Plumbing equipment/system repairs shall restore equipment/systems to their design capacity, efficiency, safety and appearance less normal wear and tear. Repair parts and materials shall be of equivalent quality, size and strength of those being replaced and compatible with the existing equipment/system. All repairs shall be in conformance with all applicable codes and standards.

C.11.5.2.1.4 All architectural finishes shall be maintained in good condition, free of visible holes, missing members, soiled and discolored surfaces. All hardware shall

operate properly.

C.11.5.2.1.5 Repairs to architectural finishes shall match existing surfaces and esthetically blend with surrounding surfaces.

C.11.5.2.1.6 Exterior surfaces of buildings and structures and component parts shall be maintained in good weather-tight condition in order to fulfill their design function. Building drainage systems shall be clear and free flowing.

C.11.5.2.1.7 Structural repairs shall restore elements, members and systems to their design strength. Repair materials shall be compatible with existing materials and of the same size and strength. All repairs shall be in conformance with all applicable codes and standards.

C.11.5.2.1.8 All facilities, buildings and structures, equipment and grounds will be free and clear of clutter, debris, oil and unsightly matter created by operation, maintenance or repair efforts.

C.11.5.2.1.9 Maintenance and repairs shall be provided within the times specified.

C.11.5.2.2 Performance

When the Service Provider completes work on a facility, system or piece of equipment, that facility, system or equipment shall be free of missing components or defects which would prevent it from functioning as originally intended and designed. Corrective, repair and replacement work shall be carried to completion including operational checks and cleanup of the job site. The quality of repaired surfaces shall be fully compatible with adjacent surfaces or equipment. Except where otherwise noted, replacements shall match existing or be compatible with surroundings in dimensions, materials, quality, finish, color and design.

C.11.5.2.3 Cleanup

During and at completion of work, debris shall not be allowed to spread unnecessarily into adjacent areas or accumulate in the work area itself. All such debris, excess material and parts shall be cleaned up and removed at the completion of the job and/or at the end of each day work is in progress.

C.11.5.2.4 Equipment Under Manufacturer's or Installer's Warranty

Equipment, components and parts, other than that installed under this contract, shall not be removed or replaced or deficiencies corrected while still under warranty of the manufacturer or the installer without prior approval of the Government Representative. All defects in material or workmanship, defective parts, or improper installation and adjustments found by the Service Provider shall be reported to the Government Representative so that necessary action may be taken. Available warranty information will be furnished to the Service Provider by the Contracting Officer or Government Representative at contract start date. The DGR or KO may elect to not honor the installers warranty and choose to have the repair completed by the Service Provider.

In the event the Service Provider must remove equipment from its location for repair, a tag shall be placed in a noticeable location indicating the date removed, the work order number and the estimated return date.

C.11.5.3 SYSTEM OUTAGES

C.11.5.3.1 General Requirements

The Service Provider shall:

- Coordinate schedules of any required system outages which may affect station activities with the Government Representative and obtain concurrence from the Government Representative prior to any planned disruption of services.
- Notify the Government Representative five (5) working days in advance of any planned system outage which may be required in the performance of this contract when any work requires an outage or reduction in electrical, water, sewage, compressed air, heating or air conditioning services within buildings. Notification shall state the reason for the outage, the type of service affected, the date and time the outage shall occur, an estimate of when normal service is to resume and a point of contact name and telephone number
- Comply with NSWCCD Standard Operating Procedures for any scheduled system outage.
- Participate in planning and coordinating work that may affect installed systems for which the Service Provider is responsible and may include outages required by other Service Providers or by the Government. For these outages the Government will notify the Service Provider five (5) working days in advance of the required system outage.
- Provide knowledgeable personnel to attend outage meetings as required.

C.11.5.3.2 Electric Power Outages (Planned and Emergency)

C.11.5.3.2.1 Planned Outages

The Service Provider shall

C.11.5.3.2.1.1 Open and lock out circuit breakers at appropriate location within the electrical system. Install ground cables on de-energized circuit wiring.

C.11.5.3.2.1.2 Ensure that transformers, circuit breakers and other system devices are properly isolated to prevent backfeed and improper grounding.

C.11.5.3.2.1.3 At areas designated by the Government Representative, properly set up, temporarily connect and operate emergency generators. Ensure that proper phasing and load requirements are maintained during operation. Two (2) government-owned generators may be made available to the SP for this requirement. Should generator requirements exceed this capability, or the existing government generators are not available, the SP shall be responsible for providing the generators. Costs that exceed the Service Call threshold will be covered under the ID/IQ portion of this PWS.

C.11.5.3.2.1.4 Refuel, maintain proper oil level and perform periodic checks every two (2) hours to ensure proper generator operation. Fuel and oil will be made available by the DGR. Ensure that properly sized ground cable is connected between generator and building ground.

C.11.5.3.2.1.5 At the conclusion of the outage, remove temporary wiring and restore electrical connections to their permanent configuration.

C.11.5.3.2.2 Emergency Outages

C.11.5.3.2.2.1 In the event the activity loses electric power at the main substation, secondary substations or other building electrical distribution systems, the Service Provider shall immediately contact the DGR to inform them of the electric power loss and inquire when power will be restored. During this loss of power, the Service Provider shall perform building electrical switching operations to restore service to the extent possible. When power is restored, the Service Provider shall operate circuit breakers to return normal electric power to the affected buildings.

C.11.5.4 OCCUPATIONAL SAFETY AND HEALTH

C.11.5.4.1 General Requirements

The Service Provider shall perform all work in compliance with NSWCCD, Federal, and state safety and health requirements. Work procedures regarding employee safety are identified in Navy Occupational Safety and Health Manual OPNAVINST 5100.23 (Series).

C.11.5.4.2 Compliance

The Service Provider shall:

- Comply with all OSHA Regulation Standards for “The Control of Hazardous Energy (lockout/tagout).”
- Follow the procedure that establishes the minimum requirements for the lockout or tagout of energy isolating devices.
- Gas-free all confined spaces before entering.

C.11.5.4.3 Two-Person Safety Rule

In the situations listed below, the Service Provider shall provide at least two (2) persons to work together. One person, trained to recognize electrical hazards and/or able to summon help if needed, shall be delegated to watch the movements of the others doing the work so that he/she can warn them if they get dangerously close to live conductors or perform other unsafe acts and so he/she can assist in case of an accident. The following situations apply as a minimum:

- Work on energized overhead lines
- Work in areas where the wiring is congested
- Work at remote or isolated locations
- Work at night or during inclement weather
- Work involving handling energized conductors or apparatus
- Work involving entrance to confined spaces (inventory available in the TRL)

C.11.5.4.4 Navy Occupational Safety and Health Deficiencies

The Government will request work to correct Navy Occupational Safety and Health (NAVOSH) Deficiencies. The NSWCCD Safety Department will record deficiencies, identified during safety inspections, on NSWCCD 5100/15, NAVOSH Deficiency Notice (NDN). The Government will provide these notices, which are applicable to the operation and maintenance of any facility, utility, system or equipment, to the Service Provider as service calls or indefinite quantity work for correction of the deficiency. In accordance with OPNAVINST 5100.23, each identified/validated hazard that cannot be corrected immediately will be assigned a Risk Assessment Code (RAC) by the activity OSH Office. The RAC represents the degree of risk associated with the deficiency and combines the elements of hazard severity and mishap probability. The RAC designations are as follows:

C.11.5.4.4.1 Hazard Severity. The hazard severity is an assessment of the worst potential consequence, defined by degree of injury, occupational illness or property damage which is likely to occur as a result of a deficiency. Hazard severity categories shall be assigned by Roman numeral according to the following criteria:

- Category I - Catastrophic: The hazard may cause death, or loss of a facility.
- Category II - Critical: May cause severe injury, severe occupational illness or major property damage.
- Category III - Marginal: May cause minor injury, minor occupational illness or minor property damage.
- Category IV - Negligible: Probably would not affect personnel safety or health, but is, nevertheless, in violation of a NAVOSH standard.

C.11.5.4.4.2 Correction of Deficiency. The Service Provider shall perform required maintenance to correct the deficiency on all applicable NDN's in accordance with the following timeframes. If circumstances prevent completion within this time frame, a request for extension shall be forwarded to the Government Representative immediately. The request shall cite specific reasons for the inability to complete within specified time frames, and an estimated schedule for completion.

- Category I Shall be corrected within 24 hours of notice.
- Category II Shall be corrected within the terms of a service call or indefinite quantity work.
- Category III Shall be corrected within the terms of a service call or indefinite quantity work.
- Category IV Shall be corrected within the terms of a service call or indefinite quantity work.

Within two (2) days after correcting the deficiency, the Service Provider shall complete the applicable sections of the NDN and return it to the Government Representative.

C.11.5.5 ACCESS TO WORK AREAS

C.11.5.5.1 Customer Notification

The Service Provider shall provide advance notice to the primary customer prior to

starting work. Advance notification for ID/IQ work shall be three (3) working days. Such notification shall include the length of time and type of work to be performed. In the event that the Service Provider is unable to notify the customer for emergency service work, the Service Provider shall notify the Government Representative.

C.11.5.5.2 Notification of Work Delays

Should work progress temporarily halt before job completion, the Service Provider shall provide the customer with the reason for delay and the projected date or time the Service Provider will return to complete the work.

C.11.5.5.3 Restricted Access Areas

Specific locations on the site are restricted access areas, requiring a government escort. The Government will inform the Service Provider of areas, which require escorts. Service Provider personnel will comply with escort requirements when providing services in these areas.

C.11.5.6 UNDERGROUND UTILITIES

C.11.5.6.1 General

Various utility systems are installed below grade level throughout the NSWCCD Headquarters site. The underground utility systems are: compressed air, electrical distribution, fire protection, natural gas, local area network (LAN), potable water, sanitary sewer, steam and condensate return, telephone communications, storm water distribution and street lighting. Underground natural gas lines are owned by the public utility, Washington Gas. The Government owns the remaining underground utilities.

C.11.5.6.2 Locating Underground Utilities/Systems

- The Service Provider shall obtain a digging permit and locate all underground utilities/systems and/or other buried structures before excavating for any work. Locate underground utilities/systems through the use of drawings, prints and/or through the use of a pipe/cable detector or other acceptable means (i.e., probing rod).
- The Service Provider shall use all available identification services to have these located.
- The Service Provider shall contact “MISS UTILITY” at telephone number 1-800-257-7777, to locate non-government owned utilities.
- Mechanical digging shall not be permitted within two (2) feet of identified underground utilities.

C.11.5.6.3 Updates To Utility Drawings

The Service Provider shall notify the government of revisions needed to underground utility/system maps, when work performed during excavations results in changes to existing conditions previously reflected or when discrepancies between drawings and actual conditions are identified.

C.11.6 FIRM FIXED-PRICE WORK

The Service Provider shall perform all Preventive Maintenance Inspection and Service Call work as specified herein under the firm fixed price portion of this contract. The Service

Provider shall ensure that the structures, systems and equipment identified in Section C.12 are maintained to the operating standards specified therein.

C.11.6.1 PREVENTIVE MAINTENANCE INSPECTION PROGRAM

C.11.6.1.1 Preventive Maintenance Inspection Definition

The Service Provider shall accomplish all Preventive Maintenance Inspection (PMI) work within the firm fixed price portion of this contract. PMI is defined as routine, periodic examination, lubrication, adjustment, minor parts repair and/or replacement to equipment and systems in order to maintain efficient operation. PMI work includes but is not limited to: visual and operational inspection, cleaning, corrosion removal and related painting, adjustment, lubrication, and replacement of filters, belts, hoses, and other expendable items required to correct or minimize operational wear and deterioration of facility systems and dynamic equipment. PMI work is continuous and repetitive in nature, and requires diligent and continuous program management by the Service Provider.

C.11.6.1.2 General Requirements

The Service Provider shall develop, implement and execute/perform a program for performing PMI for the designated systems and their equipment. The Service Provider's Program shall be submitted 30 days prior to contract start. Specific Maintenance Requirements Checksheets (MRCs) are to be developed by the Service Provider using RS Means Facility Maintenance and Repair Cost Data, Section II, PM for equipment not contained in the publication. In addition, the Service Provider shall use the manufacturer's operation and maintenance manuals as a guide. The Service Provider shall input his PMI program into the PWTools automated work control program during the contract phase-in period and be fully operational at contract start. The Service Provider shall accomplish the developed PMI program at the scheduled times; coordinated with the Government Representative to ensure maintenance occurs within the time limits identified by the schedule. In addition to accomplishing the required items of the MRCs, technician's observations about equipment condition and any problems detected based on those observations shall be recorded on the PMI work order and the government shall be notified. Work must be approved of and accepted by the Government. A PMI action will be considered not accomplished if it does not occur within the allowed window of time; however, it should be accomplished as soon thereafter as possible. Schedules shall be adjusted as needed to re-establish the required frequency based on the actual date of accomplishment. The Service Provider shall enter all PMI performed as a result of system operational deficiencies noted during scheduled PMI or routine monitoring into the PWTools system.

C.11.6.1.2.1 Program Management

The Service Provider shall ensure PMI work is given the priority and labor required to accomplish all assigned work in accordance with specified frequencies. Lack of required spare parts or other materials that delay PMI work shall not be an acceptable cause for defective PMI work. Prior to commencement of this contract, the Service Provider shall assess the spare parts needs of the contract so that, on the first day of the contract, the Service Provider shall perform the PMI program satisfactorily.

C.11.6.1.2.2 Inspection Standards

Specification terms including “check”, “ensure”, “inspect” and “verify” shall mean to visually observe or measure, adjust, clean, maintain, repair or replace as required. Following performance of preventive maintenance inspection, the Service Provider shall operate equipment over a complete cycle or at regular operating conditions to observe and document applicable pressure and temperature readings as well as other operating conditions that indicate how the equipment is functioning. Malfunctioning equipment or systems that constitute an immediate danger to personnel, threaten to damage property, interrupt service or disrupt ongoing operations shall be immediately disabled and reported to the Government Representative. Prior notification to occupants of the affected area shall be made to allow an orderly shut-down of ongoing operations.

C.11.6.1.2.3 Housekeeping

The Service Provider shall remove and properly dispose of used parts, boxes, packaging materials and other debris generated during performance of PMI. Good housekeeping methods shall be maintained in mechanical rooms and equipment areas in conjunction with PMI work.

C.11.6.1.2.4 Incidental Repair Limitation

Incidental Repair is defined as Service Call work that is performed at the time of the PMI and can be reasonably accomplished with a minimum of material and/or labor.

The Service Provider shall accomplish all incidental repair or replacement of defective equipment or system components detected at the time of PMI performance. The Service Provider’s incidental repair work liability on a particular component for a piece of equipment during PMI is limited by the service call limit for routine service calls. Work exceeding this limit shall be submitted to the Government Representative by the Service Provider, and may be accomplished at the Government’s discretion as ID/IQ work.

C.11.6.1.2.5 Documentation

Within ten (10) working days after completion of PMI work, the Service Provider shall submit to the Government Representative the appropriate PMI work order including supplemental documentation detailing the following information:

- Description of Services Performed (including follow-on service call work)
- Work Completion Date
- Actual Labor Hours Expended (categorized by trade) and Labor Costs
- Itemized Listing of Actual Materials and Equipment Used (Show actual cost or indicate if taken from Government provided materials and parts inventory)
- Describe any deficiencies identified, provide recommended corrective actions and the estimated cost(s) to correct

The PMI work order shall be an integral part of the PWTools automated work control system.

C.11.6.1.2.6 Firm Fixed Price Cost Threshold

The Firm Fixed Price (Service Call) Cost Threshold of $2,500 does not apply to the

labor and material costs when performing PMIs. The Service Provider is responsible for all costs associated with performing all PMI required under this contract.

C.11.6.1.2.7 PMI Reports

After a PMI inspection is made, the Service Provider shall report the results of such inspection on the PMI work order. Defects or deficiencies identified by the Service Provider that may result in risk to persons or property shall be reported to the customer and the Government Representative immediately via telephone. Other defects or deficiencies shall be reported by the craftsperson on the work order. Following completion of the PMI work order the Service Provider shall input actual results of the PMI into the PWTools system. The following information as a minimum shall be input within two (2) workdays of the inspection:

- Date of inspection
- List of defects or deficiencies noted during PMI and corrected
- List of actual materials and costs used for PMI inspection
- Actual hours
- List of defects not corrected
- Working estimate of man-hours and materials needed to correct defect or deficiency.
- Service Call or ID/IQ work required to correct defect(s) not corrected.

C.11.6.2 SERVICE CALLS

C.11.6.2.1 Service Call Definition

Service calls are defined as maintenance, repair or other miscellaneous work requirements, which are called into the Service Provider's work reception center by designated Government representatives. Service Calls require not more than $2500 in labor and material costs, to include parts or entire unit replacement. Service Calls do not reasonably require detailed job planning and are brief in scope. All service call work is included in the firm fixed-price portion of the contract. A single job requirement will make up a single service call and may include multiple trades and maintenance and repair requirements for the same job. When questions arise concerning the labor costs required for a particular job, labor hour requirements will be based on R. S. MEANS or commercial software estimating program or if not applicable, other estimating sources. When questions arise concerning the costs of materials, material costs will be based on the lowest reasonable quote provided by the Service Provider from at least three different commercial vendors for the actual direct cost of materials. The Government retains the right to obtain additional quotes in questionable situations. Historical information on Service Call work is provided in Attachment C.11-7. Projected Service Call Work.

C.11.6.2.2 Service Call Classification

C.11.6.2.2.1 Emergency Service Calls

Service calls will be classified as emergency at the discretion of the Government's

work receptionist. Generally, emergency calls will consist of correcting failures which constitute an immediate danger to personnel, threaten missions, or affect the operation of critical equipment or systems.

C.11.6.2.2.2 Routine Service Calls

Service calls will be classified as routine calls when the work does not qualify as an emergency.

C.11.6.2.3 Service Call Reception

C.11.6.2.3.1 Sources of Work:

Work can be identified by the Service Provider or by the Government. Service Provider-generated work is the result of work performed by operators, preventive maintenance or other specified inspections. Work shall be properly classified and authorized, by the Government Representative, prior to commencement except in emergencies.

C.11.6.2.3.2 Normal Working Hours

The Government's service desk will receive service call requests during normal working hours and classify each call. A description of the problem or requested work, date and time received, location, and other appropriate information will be entered in the PWTools system for access/retrieval by the Service Provider. Service calls shall be considered received by the Service Provider at the time and date of this transmission.

C.11.6.2.3.3 After Normal Working Hours

The Service Provider shall receive emergency service call requests directly from authorized Base personnel after normal working hours, on weekends, and holidays. (The Government will provide a list of authorized personnel.) The Service Provider shall immediately respond to emergency service calls to meet specified time frames. The Service Provider shall record the description of the problem, date and time received, building number, and caller's name and telephone number. A log of <u>all</u> service calls received shall be delivered to the Government's service desk by 9:00 AM the next regular working day. The Service Provider shall not proceed on routine calls until receipt of Government approval.

C.11.6.2.3.4 Service Call Number and Processing

The Government will assign a unique service call number to each service order request, which shall function as a reference number for inquiries and Government Quality Assurance Evaluation. The Service Provider shall keep the PWTools work control system current by continuously inputting the following information as it becomes available:

? service call status (open, closed, on-hold, canceled, etc.),

? service call number,

? material order date (other than shop stock), and estimated material due date (other than shop stock),

- the name(s) of person who performed the work,
- the date and time work was completed,
- a description of the actual work completed,
- the actual labor hours by craft,
- the total material costs, material description and quantity,
- the total cost for the service call (including labor, material, equipment, other costs),
- any remarks, as necessary.

C.11.6.3 RESPONSE TO SERVICE CALLS

C.11.6.3.1 General Responsiveness

The Service Provider shall have adequate procedures for receiving and responding to service calls 24 hours per day, including weekends and during holidays. A single local telephone number shall be provided by the Service Provider for receipt of all service calls. All telephone calls shall be answered within 15 seconds by an individual fully familiar with the Service Provider's work control procedures and the terms and conditions of this contract.

C.11.6.3.2 Emergency Service Work

The Service Provider shall respond to emergency work requirements immediately and corrective action shall begin no later than 15 minutes after receipt of an emergency service call, during normal working hours, or within two (2) hours after normal working hours. The Service Provider shall work continuously without interruption and shall arrest the emergency condition before departing the job site (e.g. return critical system to operation, install portable centrifugal chiller system, secure power to eliminate electrical hazard, etc.) Once the emergency is arrested, if further labor and material are required to complete the repair, completion shall be in accordance with routine service call procedures. If such follow-up work is beyond the scope of a service call, the Service Provider shall immediately notify the Government Representative and the procedures for Indefinite Quantity work shall apply.

C.11.6.3.3 Routine Service Work

All routine service work shall be completed within five (5) working days after receipt, and once begun, the work shall be prosecuted to completion. Routine service work shall normally be accomplished during normal work hours.

C.11.6.4 WORK BEYOND THE SCOPE OF ROUTINE SERVICE CALLS

C.11.6.4.1 Service Provider Responsibilities

If the Service Provider responds to a routine service call and believes that the work required is beyond the scope of a service call, as defined in paragraph C.11.6.2.1 the Government's service desk shall be contacted immediately. The Government Representative shall be notified and will decide any dispute on which category a service call falls into. If requested, the Service Provider shall provide a summary of the work needed and a detailed estimate showing labor hour and material requirements.

C.11.6.4.2 Government Responsibilities

If the Government Representative agrees that the work required is beyond the scope of a service call, the Government Representative may authorize the Service Provider to proceed with the work in accordance with the procedures for Indefinite Quantity as described in Section C.13. The service call will be canceled and all costs charged to the Indefinite Quantity order.

If the Government Representative determines that the work falls within the scope of a service call, work must still be completed within five (5) working days from the original receipt date/time, plus the amount of time the work authorization was held by Government Representative for determination.

C.11.6.5 COMPLETED CALLS

Within one (1) working day after completion of each service call, the Service Provider shall completely update the PWTools automated work control system including the following information:

- Description of work actually completed,
- Name(s) of personnel performing the work,
- Brief description of material and parts used, including quantities and costs,
- Date and time the work began,
- Date and time the work was completed,
- Hours of labor (by craft) expended.

C.11.6.6 MATERIALS AND EQUIPMENT

The Service Provider shall maintain sufficient off-the-shelf materials and equipment on hand to support service call work requirements. Lack of availability of materials or equipment shall not relieve the Service Provider from the requirement to complete service call work within the time limits specified above.

C.11.6.7 CONTINGENCY OPERATIONS

The Service Provider shall respond to contingency operations pursuant to Section C.1, Paragraph C.1.3.4. However, under the firm fixed price of this contract, the Service Provider shall comply with NSWCCD Headquarters Hurricane and Destructive Storm Bill (available in the TRL) which requires an annual drill in preparation of the Hurricane and Destructive Storm season.

C.11.6.7.1 Preseason Hurricane and Destructive Weather Drill

The Service Provider shall support the NSWCCD Headquarters in subject drill by performing the following:

- Have in readiness 50 sandbags (located in open storage shed) and three (3) tons of sand (located at Building 104 storage area).
- Check all road surface drains for inlet restrictions
- Empty all 30 gallon and smaller trash containers and place container inside of building.

- Secure or store inside of building items that can become flying objects in high winds.
- Check supply of flashlights, lanterns, batteries, electrical tape and other emergency type supplies.
- Have appropriate foul weather gear ready.

Notify the DGR of any deficiencies found during the performance of this drill.

ATTACHMENT C.11-1. GOVERNMENT FURNISHED EQUIPMENT

ATTACHMENT C.11-1
TABLE 1
GOVERNMENT FURNISHED EQUIPMENT

Location	Description	Manufacturer	Model No.	Serial No.	Property No.	Barcode No.
Bldg-128	Refrigerant Recovery	NTRON	R2.2	1097	30294	
Bldg-128	2 Oxygen/Acetylene Carts					
Bldg-128	2 Pel	Regent	WZT 1000			
Bldg-128	Chemical Pump	Little Giant	TE7-MD-MC	VV1965859		
Bldg-128	Pipe Threader	Rigid	535	380786		
Bldg-128	Bead Blaster	Blast-It-All	3620	BT86041140		
Bldg-128	Drill Press	Dayton	3Z919A			
Bldg-128	Refrigerant Recovery	Refrigerant Recovery System	ST100A	2149-USN		
Bldg-128/126	Refrigerant Recovery Cylinder	Manchester Tank				
Bldg-128	Pressure Washer	Eliminator by L&R	10623			
Bldg-128	Tube Cleaner	Maxi-Vac	JM 1800			
Bldg-128	Combination Test Kit	Bacharach	10623			N00167-06179
Bldg-128	Flow Meter	Ellison	77C	69348		
Bldg-128	Capsuhelic Portable Kit	Dwyer	A-471			
Bldg-128	Thermister Vacuum Gauge	Robinair				
Bldg-128	Wet/Dry Vac	Shop Vac	QL60R			
Bldg-126	Mobile Refrig. Recovery Unit	Katy Instruments	3330			
Bldg-126	Ream-A-Matic	Goodway	RAM-3	4530		
Bldg-126	Plug Set	Greenlee	859 P.V.C.			
Bldg-128	Knock Out Punch	Greenlee	7310 SB			
Bldg-128	Drill Press	Dayton	3Z919A		Unknown	NA
Bldg-128	Bead Blaster	Blast-It-All	3620	BT86041140	Unknown	NA
Bldg-128	Dispatch Oven		Style RS-00	38642	Navy ID 250329	NA
Bldg-128	Ground Tester	Biddle	Det 2/2	58651002	Navy ID 041605	NA
Bldg-128	Power Demand Analyzer		3950		Navy ID 030603	NA
Bldg-128	Grinder Pedestal 1/3 HP	Craftsman	39719580	C2371	Unknown	
Bldg-128	Hydraulic Knockout Set ½”-4”	Greenlee Textron			Unknown	
Bldg-128	Pipe Machine 1/8" - 2"	Rigid	535	380786	Unknown	NA
Bldg-128	Ice Machine	Manitowoc	C170	921121402	Unknown	NA
Bldg-128	Sawzall	Milwaukee	CAT. #651	4601204721		
Bldg-128	Sawzall	Milwaukee	Cat. #651602	918A396490305		
Bldg-128	Hiltitezz	Hilti	TE22		N00167029878	
Bldg-128	Band Saw	Milwaukee	Cat. #6230	678C497270975		
Bldg-128	Multimeter 27/FM	Fluke		4450087	6625-01-265-600	
Bldg-128	Megohmmeter	AEMC Corp.	Model 5000	42204		

ATTACHMENT C.11-1
TABLE 1
GOVERNMENT FURNISHED EQUIPMENT

Location	Description	Manufacturer	Model No.	Serial No.	Property No.	Barcode No.
Bldg-181	Lathe	Pratt & Whitney	Not Known	Not Known	3196	
Bldg-181	Milling Machine	Bridgeport	XA900-01	70	N167731202	N000167012318
Bldg-181	Air Compressor	Speedaire	3Z424F	110691L 404164		
Bldg-181	Press	Blackhawk	P-76	Not Known		
Bldg-181	Bench Grinder	Dayton	4Z909B	Not Known		
Bldg-181	Bench Sander	Kajamazoo Industries	Not Known	Not Known	N00167016270	
Bldg-181	Recovery Unit	Thermaflo	2000	Not Known		9319888
Bldg-181	Vacuum Pump	Ritchie	9300	53109210		
Bldg-181	Vacuum Pump	J/B Industries	4QL48C1T011BP	Not Known		
Bldg-181	Scale Compute-A-Charge	CPS Products	CC-800	Not Known	44248	
Bldg-181	Wet-Dry Vac	Craftsman	113-177060	97266V0201		
Bldg-181	Vibration Analyzer	IRD Mechanalysis	350	H14325412317	167-732436	
Truck 9463463	Reclaim Unit	Thermaflow Corp	1986	D2B20972		
Truck 9463463	Vacuum Pump	Fast Vac	DV-142	804629		
Truck 9463463	Dry Vacuum	Dayton	4Z906A			
Truck 9463463	Refrig Leak Detector	Johnson Controls	H-10	AD96HA0078		
Service Truck	Vacuum Pump	Robinair	15600	76137	NA	Unknown
Service Truck	Electronic Scale	Tif	9000	51415	N00167016177	Unknown
	Freon Recovery Unit	American Thermoflo	2000	Unknown	NA	
Bldg-126	Power Bonder	Greenlee	885-TE		167-606-177	
Bldg-126	Hydraulic Bender	Greenlee	882 Series			
Bldg-126	6000 Cable Puller	Greenlee	6000			
Bldg-126	P.V.C. Heater	Greenlee	847			
Bldg-127	Grinder 12"			880080	880080	
Bldg-127	Grinder 6"	THOR	6402			
Bldg-127	Tractor	Ford	4100	C632463	48-16910	
Bldg-127	Mower	Jacobsen	DW22	Motor-D950	58	
Bldg-127	Backhoe	Ford	655		48-17848	
Bldg-127	Backhoe Bucket 24"	Ford				
Bldg-127	Backhoe Bucket 18"	Ford				
Bldg-127	Backhole Bucket 12"	Ford				
	Skid Loader	Ford			45-03886	
	Bucket 5' 3"	RW Long				
	Bucket 5' 2"	Ford	801283			
	Blade 7'	KWIK Way				

ATTACHMENT C.11-1
TABLE 1
GOVERNMENT FURNISHED EQUIPMENT

Location	Description	Manufacturer	Model No.	Serial No.	Property No.	Barcode No.
	Backhoe Hammer	U.B. Co.				
Bldg-129	Band Saw	Dayton	7000	201741		
Bldg-129	Bench Grinder	Wilton	lb	8070378		
Bldg-129	Drill Press	M.S.C. Industrial	9512 450	3105331		
Bldg-129	Belt Sander	Jet Equip.	JSG-6	3021282		
Bldg-129	Enerpac Press	Enerpac	RC-106			
Bldg-129	3/8" Sewer Snake	Rigid				
Bldg-129	Sewer Snake	Rigid	K1500A	UR53552I99		
Bldg-129	Mini-Rooter	General		MR2X0785		
Bldg-129	Sewer Snake	Rigid	K1500A	87-32253		
Bldg-129	Portable Pipe Mach.	Rigid	300	708208		
Bldg-129	Sewer Snake	Rigid	500	77-4511		
Bldg-129	Portable Pump	Blue Angels Pumps	BGP-300	2998		
Bldg-129	Portable Lift	Hercules Industries	CII322	34081		
Bldg-129	Pipe Thread Mach.	Rigid	1224	EB04517		
Bldg-127	Miter Saw 8 1/2	Hitach		H01155		
Bldg-127	Piston Drive Tool	Hit DX 36m			29587	
Bldg-127	Hilti Saw Saw	Hilti		7227687		
Bldg-127	Bench Grinder	Black and Decker		102073		
Bldg-127	Shaper Planer	Delta		749		
Bldg-127	Jointer	Delta		86D05262		
Bldg-127	Belt Sander	Delta		85K2595Y		
Bldg-127	Table Saw	Delta		86A02908		
Bldg-127	Band Saw Model 20	Rockwell		85025		
Bldg-127	Radial Saw	Delta		4.36023E+11		
Bldg-127	Shaver or Planer	Delta		86D05848		
Bldg-127	Drill Press	Clausong		521014		

ATTACHMENT C.11-1
Table 2
Government Furnished Vehicles - Facilities Maintenance

Vehicle Number	Manufacturer	Model Year	Mileage	Date of Mileage Reading	Average Miles Driven Daily (E=estimated)
94-63465	GMC Minivan	1998	13,341	3/26/2002	14
94-49480	Dodge Stepvan	1992	43,292	4/5/2002	10
94-52245	Ford Crew Cab	1993	18,864	4/4/2002	7
96-47709	GMC Dump	1987	10,091	4/18/2002	2 (E)
94-49669	Ford Ranger P/U	1992	19,408	4/4/2002	7
94-63462	GMC Minivan	1998	8,761	4/4/2002	8
94-49481	Dodge Van	1992	40,120	3/18/2002	5
94-63526	Chev Utility	1998	10,493	9/27/2001	12
94-63463	GMC Minivan	1998	7,353	3/18/2002	7
94-49672	Ford Ranger P/U	1992	24,357	3/18/2002	6
9461987	Dodge van	1997	41,337	7/8/2002	12(E)
94-49673	Ford Ranger P/U*	1992	51,267	4/2/2002	14
94-63464	GMC Minivan	1998	14,000 (E)	7/8/2002	12 (E)
G43-63630	CHEV. VAN	1996	19,785	7/22/2002	10(E)
G4277951	FORD P/U	1996	3,633	7/22/2002	10(E)
Various	C-Pool Vehicle (used for material		n/a	n/a	13
94-52056	Dodge Van	1993	73,495	2/14/2002	5
94-49667	Ford Ranger P/U	1992	47,453	3/26/2002	16
G4277124	FORD P/U	1996	13,276	7/22/2002	12(E)
* - Dual use vehicle: Pipe, carpenter and paint shop supervisor, plus					
used for Pest Control. Pest Control is not part of this C/A study.					
Estimated weekly pest control usage is 30%.					

ATTACHMENT C.11-2. GOVERNMENT-FURNISHED MATERIALS AND SUPPLIES

ATTACHMENT C.11-2

BLDG 127 PAINT SHOP MATERIAL INVENTORY

LOCATION	BRAND NAME	PART/MODEL NUMBER	SIZE	DESCRIPTION	QTY	UNIT COST	TOTAL COST
Yellow Cabinet	SKIDPROOFER	PART A	GAL	POLYAMINE HARDER	15	12.00	180.00
Yellow Cabinet	FLOOR COAT	REAL-SEAL	GAL	SUPER FLOOR COAT FOR CONCRETE	15	15.00	225.00
Yellow Cabinet	PEEL AWAY	PAPER	BX	PEEL AWAY PAPER FOR LEAD BASE PAINT	3	30.00	90.00
BLUE CABINET	PEEL AWAY	PEEL AWAY #1	GAL	PAINT REMOVAL SYSTEM/STRIPPER	10	20.00	200.00
BLUE CABINET	MINERAL SPIRITS		GAL	PAINT THINNER	1	4.00	4.00
BLUE CABINET	LACQUER		GAL	PAINT THINNER	5	4.00	20.00
BLUE CABINET	CERTANE	401	GAL	STRIP COAT #1	10	14.00	140.00
BLUE CABINET	PEEL AWAY		BX	CHEMICAL REMOVAL PAPER	2	30.00	60.00
BLUE CABINET	MATERIAL WASTE		GAL	USED PAINT THINNER	5	0.00	0.00
FLOOR	DURON	OIL BASE	GAL	EGG SHELL WHITE	10	14.00	140.00
FLOOR	SHERWILLIAMS		GAL	MOONLITE GRAY FLAT LATEX	15	14.00	210.00
FLOOR	PAINT LATEX		GAL	EXTERIOR WOOD & MASONRY	20	16.00	320.00
FLOOR	DURON	WHITE BASE	GAL	SEMI GLOSS ENAMEL	20	16.00	320.00
FLOOR	DURON	ARIZONA WHITE	GAL	SEMI GLOSS ENAMEL	15	16.00	240.00
FLOOR	SHERWILLIAMS		GAL	TRAFFIC MARKING PAINT	10	12.00	120.00
FLOOR	DURON		GAL	BLOCK FILLER LATEX	5	14.00	70.00
FLOOR	DURON	LATEX	GAL	SHELL WHITE FLAT	5	14.00	70.00
FLOOR	DURON	MIDTONE BASE	GAL	SHELL WHITE OIL	5	16.00	80.00
FLOOR	DURON	WEATHER SHEILD	GAL	SEMI GLOSS HOUSE PAINT	5	16.00	80.00
FLOOR	DURON		GAL	TRAFFIC PAINT WHITE	5	12.00	60.00
FLOOR	BEADS		BAG	CRYSTAL BEADS	1	25.50	25.50
FLOOR			GAL	SPEED QUICK	10	8.00	80.00
FLOOR	TITAN			PAINT SPRAYER	1	80.00	80.00
FLOOR	AGITATOR	#6	GAL	PAINT SHAKER	1	75.00	75.00
FLOOR	HAKO	MINUTEMAN		HEFF VACUUM CLEANER	1	100.00	100.00
FLOOR	SHOPVAC			WET/DRY VACUUM CLEANER	1	45.00	45.00

ATTACHMENT C.11-2

BLDG 127 PAINT SHOP MATERIAL INVENTORY

LOCATION	BRAND NAME	PART/MODEL NUMBER	SIZE	DESCRIPTION	QTY	UNIT COST	TOTAL COST
SHELVES	DURON	PLASTIC KOTE	GAL	NEUTRAL BASE/SEMI GLOSS	6	14.00	84.00
SHELVES	DURON	LATEX	GAL	MOONLITE GRAY/SEMI GLOSS	4	14.00	56.00
SHELVES	DURON	LATEX	GAL	FLAT MIDTONE BASE	3	14.00	42.00
SHELVES	DURON	LATEX	GAL	FLAT HIDDEN WHITE	1	14.00	14.00
SHELVES	DURON	ENAMEL	QT	NEUTRAL BASE CARIBOU	1	14.00	14.00
SHELVES	DURON		GAL	ANTIQUE WHITE SEMI GLOSS	2	14.00	28.00
SHELVES	DURON	ENAMEL	GAL	SHELL WHITE SEMI GLOSS	1	14.00	14.00
SHELVES	HALSTEAD		GAL	PROTECTIVE COATING	1	16.00	16.00
SHELVES	DURON	LATEX	GAL	TRAFFIC PAINT	3	12.00	36.00
CABINET #1	DURON	SAFETY YELLOW	GAL	MARKING PAINTER	5	12.00	60.00
CABINET #1	DURON		GAL	MIDTONE BASE OIL	3	16.00	48.00
CABINET #1	DURON		GAL	TILE RED OIL	7	16.00	112.00
CABINET #1	DURON	SAFETY YELLOW	GAL	CHINESE RED	1	12.00	12.00
CABINET #1	DURON	TIN TABLE WHITE	GAL	WOOD,MASONRY & STUCKO	2	18.00	36.00
CABINET #1	STAIN KILLER	TIN TABLE WHITE	GAL	PRIMER/SEALER	2	15.00	30.00
CABINET #1	DURON	WEATHER SHIELD	GAL	FLAT PAINT	3	14.00	42.00
CABINET #1	DURON		GAL	LIGHT BROWN DEEP BASE	2	14.00	28.00
CABINET #1	DURON		GAL	BLUE TWINKLE PAINT	2	14.00	28.00
CABINET #1	DURON	ENAMEL	GAL	FLAT BLACK PAINT	2	14.00	28.00
CABINET #1	DURON		GAL	GLOSS ENAMEL BROWN	5	14.00	70.00
CABINET #1	DURON		GAL	GLOSS ENAMEL BLACK	4	14.00	56.00
CABINET #1	DURON		GAL	GLOSS ENAMEL MEDIUM GRAY	2	14.00	28.00
CABINET #1	DURON		GAL	GLOSS ENAMEL LIGHT GRAY	1	14.00	14.00
CABINET #1	DURON		GAL	READY MIXED ALUMINIUM	10	20.00	200.00
CABINET #1	WATCO		PT	DANISH OIL FINISH NATURAL	2	5.50	11.00
CABINET #1	WATCO		QT	DANISH OIL FINISH CHERRY L	2	8.00	16.00
CABINET #1	MINWAX	POLYURETHANE	GAL	CLEAR SEMI GLOSS FINISH	1	16.00	16.00

BLDG 127 PAINT SHOP MATERIAL INVENTORY

LOCATION	BRAND NAME	PART/MODEL NUMBER	SIZE	DESCRIPTION	QTY	UNIT COST	TOTAL COST
CABINET #1	MINWAX	STAINS AND SEALS	QT	218 PURITAN PINE	1	8.00	8.00
CABINET #1	MINWAX	STAINS AND SEALS	QT	2716 DARK WALNUT WOOD FINISH	1	8.00	8.00
CABINET #1	MINWAX	STAINS AND SEALS	QT	230 EARLY AMERICAN	1	8.00	8.00
CABINET #2	BEHR	LATEX	GAL	FLAT WALL DARK GREEN PAINT	5	14.00	70.00
CABINET #2	DURON	WALL KOTE	GAL	SHELL WHITE OIL PAINT	3	16.00	48.00
CABINET #2	DURON	ENAMEL	GAL	SATIN FINISH BLACK	3	14.00	42.00
CABINET #2	DURON	RED OXIDE	GAL	METAL PRIMER	2	14.00	28.00
CABINET #2	NILES	CHEMICAL PAINT	GAL	GRAY DARK SI ALKYD	5	20.00	100.00
CABINET #2	MORGAN	EPOXY	GAL	PRIMER FOR METAL SURFACES	2	16.00	32.00
CABINET #2	MORGAN	NS-100	GAL	ANTI-SLIP COATING	2	20.00	40.00
CABINET #2	PRECISION CLEAN		GAL	CONCENTRATE CLEANER	1	9.00	9.00
CABINET #2	DURON	EXTERIOR PAINT	GAL	SEMI GLOSS HOUSE PAINT	1	16.00	16.00
CABINET #2	RUST-OLEUM		GAL	SAFETY GREEN ENAMEL	1	16.00	16.00
CABINET #2	DAMONEY	THURMALOX	GAL	HEAT RESISTANT COATING	1	18.00	18.00
CABINET #2	RUST-OLEUM		GAL	SAFETY BLUE ENAMEL	1	13.00	13.00
CABINET #2	DURON	ENAMEL	GAL	IMPERIAL BLUE OIL	1	16.00	16.00
CABINET #2	DURON		GAL	EGGSHELL WHITE ENAMEL	1	16.00	16.00
CABINET #2	DURON	RUST RESISTANT	GAL	WHITE METAL PRIMER	1	16.00	16.00
CABINET #2	ABM	BLACK	16 FL OZ	STENCIL & MARKING INK	9	5.00	45.00
CABINET #2	RUST-OLEUM		11 FL OZ	METALLICS FINISH	5	3.50	17.50
CABINET #2	RUST-OLEUM		QT	OIL BASE ENAMEL BLACK	1	8.00	8.00
CABINET #2	ZYNOLYTE	EPOXY	11 FL OZ	CHROME FINISH	1	4.50	4.50
CABINET #2	SO-SURE	LACQUER ARERSOL	10.5 OZ	FLAT BLACK 37038	3	3.50	10.50
CABINET #2	DAP		32 FL OZ	GLAZING COMPOUND WHITE	1	9.00	9.00
CABINET #2	PATCH-N-PAINT		GAL	LIGHTURIGHT SPACKLING	1	9.00	9.00
CABINET #2	CUSTOM		GAL	SPACKLING PASTE	1	12.00	12.00
CABINET #2	SHEET ROCK		32 FL OZ	JOINT COMPOUND	1	12.00	12.00

BLDG 127 PAINT SHOP MATERIAL INVENTORY

LOCATION	BRAND NAME	PART/MODEL NUMBER	SIZE	DESCRIPTION	QTY	UNIT COST	TOTAL COST
SHOP	ROLLERS		7"	WHITE PAINT ROLLERS	40	1.50	60.00
SHOP	ROLLERS		9"	WHITE PAINT ROLLERS	12	1.75	21.00
SHOP	ROLLERS		7"	PINK AND GREEN PAINT ROLLERS	11	1.50	16.50
SHOP	ROLLERS		9"	THICK 3/4" NAP PAINT ROLLERS	12	2.00	24.00
SHOP	ROLLERS		9"	LAMB SKIN PAINT ROLLERS	7	2.00	14.00
SHOP	ROLLERS		9"	3/8" NAP PAINT ROLLERS	5	1.50	7.50
SHOP	ROLLERS		9"	1/2" NAP PAINT ROLLERS	5	1.50	7.50
SHOP	BESTT LIEBCO		9"	1/4" NAP PAINT ROLLERS	40	1.50	60.00
SHOP	ROLLERS		7"	BLUE PAINT ROLLERS	14	1.50	21.00
SHOP	SKID TEX		LB	NON-SKID ADDITIVE	3	4.50	13.50

ATTACHMENT C.11-2

BLDG 127 CARPENTER SHOP MATERIAL INVENTORY

LOCATION	BRAND NAME	PART/MODEL NUMBER	SIZE	DESCRIPTION	QTY	UNIT COST	TOTAL COST
CABINET	NATIONAL		VARIOUS	HINGES	16	2.25	36.00
CABINET	STANLEY	US3		DOOR STOP	12	1.25	15.00
CABINET	STANLEY	571030		DOOR STOP	9	3.05	27.45
CABINET	NATIONAL	V1935		DOOR STOP	6	3.05	18.30
CABINET	UNKNOWN			DOOR STOP	14	3.05	42.70
CABINET	BELWITH	P333UB		HANDLES	4	3	12.00
CABINET	NATIONAL	UV1848		DRAW CATCH	2	2.85	5.70
CABINET	AMEROCK	BP33772-AL		MAGNETIC CATCH	17	1.15	19.55
CABINET	IVES	340-350		CATCH	8	3.05	24.40
CABINET	STANLEY	75-5085	6"	HASP	4	2.15	8.60
CABINET	NATIONAL	64195	4"	HASP	4	2.05	8.20
CABINET	NATIONAL	64004	3 1/2"	HASP	7	1.85	12.95
CABINET	NATIONAL	64687	5"	BARREL BOLT	1	4.05	4.05
CABINET	NATIONAL	64685	3"	BARREL BOLT	6	3.85	23.10
CABINET	NATIONAL	952	3 1/2"	HOOKS AND EYE	2	1.05	2.10
CABINET	NATIONAL	994	3"	HOOKS AND EYE	2	1.30	2.60
CABINET	FERUM	B0 93-8	8"	BARREL BOLT	3	7.05	21.15
CABINET	NATIONAL	SET		SHUTTER HINGES	1	7.15	7.15
CABINET	HAGAR	7411	6"	HINGES	3	5.85	17.55
CABINET	HAGAR	7405	5"	HINGES	7	5.05	35.35
CABINET	HAGAR		4 1/2"	HINGES	23	4.25	97.75
CABINET	FMP		3"	HINGES	8	3.20	25.60
CABINET	STANLEY	F179	3 1/2"	HINGES	5	3.45	17.25
CABINET	NATIONAL	V129	3"	HINGES	13	3.20	41.60
CABINET	HAGAR		2"	HINGES	6	3.00	18.00
CABINET	NATIONAL		4"	STRAP HINGE	4	2.10	8.40
CABINET	HAGAR	T42201	3"	STRAP HINGE	29	1.85	53.65

ATTACHMENT C.11-2

BLDG 127 CARPENTER SHOP MATERIAL INVENTORY

LOCATION	BRAND NAME	PART/MODEL NUMBER	SIZE	DESCRIPTION	QTY	UNIT COST	TOTAL COST
CABINET				BAIL HANDLE	16	4.25	68.00
CABINET	CLL			CAMLOCK	3	2.65	7.95
CABINET	NATIONAL	391	2 1/2" x1 3/4"	HINGE	10	1.95	19.50
CABINET	NATIONAL	375	2" x 1 3/8"	HINGE	6	1.65	9.90
LOFT			88.12	INSULATION (BAG)	1	7.05	7.05
LOFT			4 X 8	PEGBOARD	3	6.85	20.55
LOFT				HOMOSOTE BOARD	5	3.15	15.75
LOFT			36"x40"	WINDOW SASH	2	32.00	64.00
LOFT			31 1/2" x 49 1/2"	WINDOW	1	65.00	65.00
LOFT			32 12" x 39 1/2"	SCREEN	1	15.00	15.00
LOFT			17 12" x 38"	SCREEN	2	15.00	30.00
LOFT			2-8 x 6-8	DOOR	2	32.00	64.00
LOFT	FIRST AMERICAN	1253W	1/2 ROLL	WHITE COIL STOCK	1	35.00	35.00
LOFT	JOHNSON		4'	VINYL BASE	1	2.75	2.75
LOFT	USG		4'	CROSS T	6	2.45	14.70
LOFT	EMELO		1 1/2 HP	COMPRESSOR	1		0.00
LOFT			1/2"	1/2 ROUND (LF)	360	.34	122.40
LOFT			4 5/8"	CROWN MOULDING (LF)	60	1.20	72.00
LOFT			1 1/8"	BASE CAP (LF)	56	.45	25.20
LOFT				HAND RAIL (LF)	60	2.25	135.00
LOFT				CORNER MOULDING (LF)	120	.32	38.40
LOFT			3 5/8	WINDOW STOOL (LF)	36	1.65	59.40
LOFT			VARIOUS	PRE FINISHED PANEL MOULD (LF)	1200	.28	336.00
LOFT			3/8	ALL THREAD (LF)	9	.36	3.24
LOFT			8'	SHELF STANDARDS	30	6.25	187.50
CLOSET			1/4" x 36"	DOWEL	280	.18	50.40
CLOSET			1/2" x 36"	DOWEL	120	.30	36.00

ATTACHMENT C.11-2

BLDG 127 CARPENTER SHOP MATERIAL INVENTORY

LOCATION	BRAND NAME	PART/MODEL NUMBER	SIZE	DESCRIPTION	QTY	UNIT COST	TOTAL COST
CLOSET			3/8" x 36"	DOWEL	12	.45	5.40
CLOSET			3/4" x 36"	DOWEL	20	.65	13.00
CLOSET			1/2"	ALL THREAD (LF)	5	.45	2.25
CLOSET	STARALUM		48" x 100'	SCREEN	2	57.00	114.00
CLOSET			VARIOUS	DROP CLOTH	4	23.00	92.00
CLOSET			3"	FOAM BRUSH	24	.69	16.56
CLOSET			2"	FOAM BRUSH	4	.54	2.16
CLOSET			4"	FOAM BRUSH	72	.80	57.60
CLOSET			1"	FOAM BRUSH	12	.45	5.40
CLOSET	STANLEY			BAIL HANDLE	92	4.25	391.00
CLOSET	TECO		28	JOIST HANGER	42	.89	37.38
CLOSET			12"	FUNNEL	5	6.00	30.00
CLOSET	MILCON	3203-014	14" x 14"	ACCESS DOOR	4	14.00	56.00
CLOSET	MILCON	3202-20	16" x 16"	ACCESS DOOR	4	16.00	64.00
CLOSET	MILCON	3203-10	10" x 10"	ACCESS DOOR	3	12.00	36.00
CLOSET	MILCON	3202-30	24" x 24"	ACCESS DOOR	3	22.00	66.00
CLOSET			12" X 12"	LOUVERED VENT	6	16.00	96.00
CLOSET			25" X 13"	LOUVERED VENT	7	21.05	147.35
CLOSET			19" X 19"	LOUVERED VENT	5	18.50	92.50
CLOSET	SHEETROCK		2 1/16 X 250'	JOINT TAPE	16	3.00	48.00
CLOSET				PLASTIC BOTTLES	13	.89	11.57
CLOSET	DEROYAL		18" X100 YDS	CHEESECLOTH	12	12.00	144.00
CLOSET			3/8 X 100'	NYLON ROPE	1	50.00	50.00
CLOSET			3/8 X100'	HEMP ROPE	1	35.00	35.00
CLOSET			3'	ALUMINUM THRESHOLDS	9	7.25	65.25
CLOSET	NORTON	2055	4" X 24"	SANDING BELTS	97	2.25	218.25
CLOSET	SUMMEERVILLE	44	BOXES	QUARRY TILE	11	1.25	13.75

BLDG 127 CARPENTER SHOP MATERIAL INVENTORY

LOCATION	BRAND NAME	PART/MODEL NUMBER	SIZE	DESCRIPTION	QTY	UNIT COST	TOTAL COST
CLOSET	IVES	SP26213620	6"	FLUSH BOLT	4	12.98	51.92
CLOSET	UNICAN	100 2M		ACCESS CONTROL	1	75.25	75.25
CLOSET	IVES	457		FLUSH BOLT	8	10.95	87.60
CLOSET	ROCKWOOD	955		FLUSH BOLT	4	8.25	33.00
CLOSET	WRIGHT	SK14		DOOR RETAINER	5	6.25	31.25
CLOSET	IVES	115B260	30 1/2"	CRASH STOP	4	5.45	21.80
CLOSET	MAG	35		INSTALL ALOCK	2	11.50	23.00
CLOSET	MAG	15		INSTALL ALOCK	1	10.50	10.50
CLOSET	LON	4040		DOOR CLOSER	2	28.60	57.20
CLOSET	NORTON	1604		DOOR CLOSER	2	32.75	65.50
CLOSET	M/E	55858		HINGES	9	6.08	54.72
CLOSET	YOLE	92		DOOR SPRING CLOSER	4	12.45	49.80
CLOSET	YOLE	94		DOOR SPRING CLOSER	2	13.50	27.00
CLOSET			24" X 18"	PICTURE FRAME	14	12.45	174.30
CLOSET			10" X 14"	PICTURE FRAME	60	8.50	510.00
CLOSET				DESK LIGHT	4	22.00	88.00
CLOSET			FEET	FOAM WEATHERSTRIP	40	8.65	346.00
CLOSET			FEET	VINYL TUBE	6	.40	2.40
CLOSET	ELGAR	P145	9/64 X 20'	SPLINE	7	1.25	8.75
CLOSET	ARMSTRONG		12 X 12	FLOOR TILE	180	1.25	225.00
CLOSET	REYNOLDS	7210		CORNER LOCKS	8	.89	7.12
CLOSET	INTERFACE	8311	18" X 18"	FLOORING	60	1.25	75.00
CLOSET	HILTI	663641	1/4	TOGGLE BOLT	250	.45	112.50
CLOSET	HILTI	663633	3/16	TOGGLE BOLT	50	.45	22.50
CLOSET	HILTI	663658	3/8	TOGGLE BOLT	150	.45	67.50
CLOSET	HILTI	KB11	1/2 X 3 3/4	KWIK BOLT	50	1.00	50.00
CLOSET	HILTI	DN42 P8	1 11/16	FASTNER	300	.18	54.00

BLDG 127 CARPENTER SHOP MATERIAL INVENTORY

LOCATION	BRAND NAME	PART/MODEL NUMBER	SIZE	DESCRIPTION	QTY	UNIT COST	TOTAL COST
CLOSET	HILTI	DN27 P8	1 1/2	FASTNER	400	.18	72.00
CLOSET	HILTI	EW6-28-120	12 13/22	FASTNER	100	.18	18.00
CLOSET	HILTI	X-DNI-52 P8	2 1/16	FASTNER	800	.32	256.00
CLOSET	HILTI	HPS	5/16 x 2 3/4	FASTNER	300	.32	96.00
CLOSET	HILTI	DS 52 P10	2 1/16	FASTNER	100	.32	32.00
CLOSET	HILTI	W-10-30 32 P10	1 1/4"	FASTNER	100	.18	18.00
CLOSET	HILTI	DS 57 P 10	2 1/4"	FASTNER	200	.32	64.00
CLOSET	HILTI	W6-20-27 FP8	1 1/16"	FASTNER	300	.18	54.00
CLOSET	HILTI	EW6-38-12 FP8	1/2"	FASTNER	300	.18	54.00
CLOSET	HILTI	DN 72 P8	2 7/8"	FASTNER	100	.18	18.00
CLOSET	HILTI	DS 82 P10	3 1/4"	FASTNER	400	.32	128.00
CLOSET	HILTI	W6-20-27 012	1 1/16"	FASTNER	200	.18	36.00
CLOSET	HILTI	W6-38-27 012	1 1/16"	FASTNER	100	.18	18.00
CLOSET	HILTI	EW6-38-12 FP8	1/2"	FASTNER	300	.18	54.00
CLOSET	HILTI	PSA	3/16" X 7/8"	FASTNER	600	.18	108.00
CLOSET	HILTI	000824672	2 1/2"	SELF DRILLING SCREW	3000	.02	60.00
CLOSET		855858	2"	SELF DRILLING SCREW	1500	.02	30.00
CLOSET		855833	1 1/4"	SELF DRILLING SCREW	1500	.02	30.00
CLOSET			40	COATED SINKER (LB)	200	1.19	238.00
CLOSET			80	COMMON (LB)	495	1.19	589.05
CLOSET			1 1/2"	TECO NAILS (LB)	50	1.19	59.50
CLOSET	HILTI	DN 47 P5	1 7/8"	FASTNER	100	.18	18.00
CLOSET	HILTI	84331	2 1/4	TRIM SCREW	2500	.02	50.00
CLOSET			8D	COATED SINKER (LB)	45	1.19	53.55
CLOSET			8D	GALVENIZED SINKER (LB)	145	1.19	172.55
CLOSET			12D	SPIRAL (LB)	45	1.19	53.55
CLOSET			12D	GALVENIZED SINKER (LB)	25	1.19	29.75

BLDG 127 CARPENTER SHOP MATERIAL INVENTORY

LOCATION	BRAND NAME	PART/MODEL NUMBER	SIZE	DESCRIPTION	QTY	UNIT COST	TOTAL COST
CLOSET			16D	FINISH SINKER (LB)	140	1.19	166.60
CLOSET	TECO		1/2"	H CLIP	500	.03	15.00
CLOSET	GRABBERS		1"	DRYWALL SCREW (LB)	30	1.19	35.70
CLOSET			1/2" X 4"	LAG SCREW (LB)	90	1.19	107.10
CLOSET			4D	COMMON (LB)	15	1.19	17.85
CLOSET			6D	SINKER (LB)	60	1.19	71.40
CLOSET			4D	FINISH SINKER (LB)	65	1.19	77.35
CLOSET			12D	COMMON (LB)	25	1.19	29.75
CLOSET			10 D	COMMON (LB)	25	1.19	29.75
CLOSET			8D	FINISH SINKER (LB)	105	1.19	124.95
CLOSET			6D	FINISH SINKER (LB)	15	1.19	17.85
CLOSET			1 1/4"	DRYWALL NAILS (LB)	10	1.19	11.90
CLOSET			8D	GALVENIZED FINISH (LB)	25	1.19	29.75
CLOSET	TECO		1 1/4	TECO NAILS (LB)	3	1.19	3.57
CLOSET			3/8"	FLAT WASHER (LB)	5	2.00	10.00
CLOSET			3/8"	NUT	300	.08	24.00
CLOSET			3/8" X 2"	CARRAIGE BOLT	100	.45	45.00
CLOSET			3/8" X 3 1/2"	CARRAIGE BOLT	150	.45	67.50
CLOSET			#6 X 1/2"	STUD SCREWS (LB)	25	1.19	29.75
CLOSET			#6 X 1"	FINISH SCREWS (LB)	30	1.19	35.70
CLOSET			#6 X 1 1/2"	FINISH SCREWS (LB)	5	1.19	5.95
CLOSET			1/2" X 8"	CARRAIGE BOLT	10	.75	7.50
CLOSET			1/2" X5"	CARRAIGE BOLT	8	.65	5.20
CLOSET			3/8" X 6"	CARRAIGE BOLT	6	.55	3.30
CLOSET			5/16" X 4 1/2"	CARRAIGE BOLT	500	.45	225.00
CLOSET			15/16" X 4"	CARRAIGE BOLT	300	.40	120.00
CLOSET			15/16" X 3"	CARRAIGE BOLT	200	.35	70.00

BLDG 127 CARPENTER SHOP MATERIAL INVENTORY

LOCATION	BRAND NAME	PART/MODEL NUMBER	SIZE	DESCRIPTION	QTY	UNIT COST	TOTAL COST
CLOSET			5/16" X 2"	CARRAIGE BOLT	40	.30	12.00
CLOSET			3/8" X 6"	LAG BOLT	70	.65	45.50
CLOSET			3/8" X 4"	LAG BOLT	220	.55	121.00
CLOSET			3/8" X 1 1/2"	LAG BOLT	50	.40	20.00
CABINET			1/4"	TOGGLES	40	.20	8.00
CABINET	BOSTITCH&SWINGLINE		VARIOUS	STAPLES	30000	.0008	24.00
CABINET			VARIOUS	BRASS SCREWS (LB)	60	4.00	240.00
CABINET			1/2" X 5"	CARRAIGE BOLT	120	.85	102.00
CABINET			1/2"	HEX NUTS	100	.08	8.00
CABINET			3/8" X 4"	HEX BOLT	9	.75	6.75
CABINET			5/16" X 2 1/2"	HEX BOLT	100	.40	40.00
CABINET			5/16" X 2"	HEX BOLT	75	.35	26.25
CABINET			3/8" X 2 1/2"	HEX BOLT	60	.50	30.00
CABINET	HILTI	314104	1"	BRADS	16,000	.0008	12.80
CABINET	HILTI	314112	1 3/16"	BRADS	12500	.0008	10.00
CABINET	HILTI	314120	1 1/4"	BRADS	5000	.0008	4.00
CABINET	HILTI	31413	1 3/8"	BRADS	3000	.0008	2.40
CABINET	HILTI	314146	1 1/2"	BRADS	5000	.0008	4.00
CABINET	HILTI	314153	1 9/16"	BRADS	5000	.0008	4.00
CABINET	HILTI	314161	1 3/4"	BRADS	7500	.0008	6.00
CABINET	HILTI	314179	2"	BRADS	2600	.0008	2.08
CABINET	HILTI		2 1/2"	BRADS	2000	.0008	1.60
CABINET	HILTI	31409	3/4"	BRADS	5000	.0008	4.00
CABINET	EP	760		ANCHOR SET	1	75.00	75.00
CABINET	EP	500		WOODSERT SET	1	75.00	75.00
CABINET	EP	709		MACHINE SCREW SET	1	75.00	75.00
CABINET	ROTANIUM	7408		ANCHOR SET	1	75.00	75.00

ATTACHMENT C.11-2

BLDG 127 CARPENTER SHOP MATERIAL INVENTORY

LOCATION	BRAND NAME	PART/MODEL NUMBER	SIZE	DESCRIPTION	QTY	UNIT COST	TOTAL COST
BENCH			VARIOUS	BRASS SCREWS (LB)	50	2.15	107.50
BENCH			1"	ROFFING NAILS (LB)	50	1.19	59.50
BENCH				SPIRAL DECK NAILS (LB)	50	1.19	59.50
BENCH	GRABBERS		3"	DRYWALL SCREW (LB)	40	2.75	110.00
BENCH	GRABBERS		2"	DRYWALL SCREW (LB)	23	2.75	63.25
BENCH	GRABBERS		1 3/8"	DRYWALL SCREW (LB)	22	2.75	60.50
BENCH	GRABBERS		1 1/4"	DRYWALL SCREW (LB)	18	2.75	49.50
BENCH	GRIP RITE	83057	8D	STICK NAILS	5200	.009	46.80
BENCH	SENCO	6W583	12D	STICK NAILS	1200	.009	10.80
BENCH			1/2" X 3"	LEAD ANCHORS	3	.35	1.05
BENCH			1/2" X 2"	LEAD ANCHORS	12	.30	3.60
BENCH			3/8" X 1 1/2"	LEAD ANCHORS	36	.25	9.00
HILTI CABINET	HILTI	5490016	3/8"	ANCHOR	200	.28	56.00
HILTI CABINET	HILTI	5490000	1/4"	ANCHOR	500	.24	120.00
HILTI CABINET	HILTI	5500325		KWIK BOLT	400	.65	260.00
HILTI CABINET	HILTI	5500128		KWIK BOLT	5	.45	2.25
HILTI CABINET	HILTI	454538	1/2" X 2"	HIT ANCHOR	300	.30	90.00
HILTI CABINET	HILTI	5403020	1/4" X 1 3/4	HIT ANCHOR	100	.25	25.00
HILTI CABINET	HILTI	661389	1/4" X 1"	HIT ANCHOR	500	.20	100.00
HILTI CABINET	HILTI	661371	3/16" X 7/8"	HIT ANCHOR	200	.15	30.00
HILTI CABINET	HILTI	0537P10	1 1/2"	HIT ANCHOR	100	.30	30.00
HILTI CABINET	HILTI	W6-20-42-S12	2 1/2"	FASTNER	200	.65	130.00
HILTI CABINET	HILTI	5340-00-961-7300	3/16" X 1 1/2"	SHIELD	400	.48	192.00
HILTI CABINET	HILTI	DN 32 P8	1 1/4"	FASTNER	200	.35	70.00
HILTI CABINET	HILTI	DN162 P8	2 1/2"	FASTNER	100	.65	65.00
HILTI CABINET	HILTI	502914	#3	LOAD	400	.60	240.00
HILTI CABINET	HILTI	503094	#4	LOAD	1200	.60	720.00

BLDG 127 CARPENTER SHOP MATERIAL INVENTORY

LOCATION	BRAND NAME	PART/MODEL NUMBER	SIZE	DESCRIPTION	QTY	UNIT COST	TOTAL COST
HILTI CABINET	HILTI	4839	#5	LOAD	600	.60	360.00
HILTI CABINET	HILTI	5460004	#4	FASTNER	10	.30	3.00
HILTI CABINET	HILTI	DN1 19 P8	3/4"	FASTNER	1100	.30	330.00
HILTI CABINET	HILTI	D5 117 P10	5"	FASTNER	20	.30	6.00
HILTI CABINET	HILTI	DN1 52 P8	2 1/16"	FASTNER	300	.30	90.00
HILTI CABINET	HILTI	DN1 62 P8	2 1/2"	FASTNER	500	.30	150.00
RACKS	WEYERHAEUSER		2 X 4	LUMBER	305	2.15	655.75
RACKS			4 X 8	1/2" PLYWOOD	12	15.00	180.00
RACKS			4 X 8	3/4" PLYWOOD	23	15.40	354.20
RACKS			4 X 8	1/8 PLEXI GLASS	8	32.00	256.00
RACKS				MEAL STUDS (BUNDLE)	3	2.05	6.15

ATTACHMENT C.11-2

BLDG 128 SHOP MATERIAL INVENTORY

LOCATION	BRAND NAME	PART/MODEL NUMBER	SIZE	DESCRIPTION	QTY	UNIT COST	TOTAL COST
AC RM 2S	SPORLAN	C415	5/8"	REFG FILTER DRIER	3	35.92	107.76
AC RM 2S	SPORLAN	C305STHH	5/8"	REFG FILTER DRIER	4	24.00	96.00
AC RM 2S	SPORLAN	HPC1645HH	1/2"	REFG FILTER DRIER	2	30.70	61.40
AC RM 2S	SPORLAN	C304	1/2"	REFG FILTER DRIER	4	50.00	200.00
AC RM 2S	SPORLAN	HPC165SHH	5/8"	REFG FILTER DRIER	4	30.00	120.00
AC RM 2S	SPORLAN	C304S	1/2"	REFG FILTER DRIER	3	25.00	75.00
AC RM 2S	SPORLAN	C084STHH	1/2"	REFG FILTER DRIER	2	26.00	52.00
AC RM 2S	SPORLAN	C804	1/2"	REFG FILTER DRIER	4	13.00	52.00
AC RM 2S	SPORLAN	C164HH	1/2"	REFG FILTER DRIER	4	17.00	68.00
AC RM 2S	SPORLAN	HPC104	1/2"	REFG FILTER DRIER	2	12.00	24.00
AC RM 2S	SPORLAN	HPC164SHH	1/2"	REFG FILTER DRIER	1	21.00	21.00
AC RM 2S	SPORLAN	C164STHH	1/2"	REFG FILTER DRIER	1	22.00	22.00
AC RM 2S	SPORLAN	C164S	1/2"	REFG FILTER DRIER	3	16.00	48.00
AC RM 2S	SPORLAN	C4311STHH	1-3/8"	REFG FILTER DRIER	4	32.75	131.00
AC RM 2S	SPORLAN	C439STHH	1-1/8"	REFG FILTER DRIER	4	40.25	161.00
AC RM 2S	SPORLAN	HPC163HH	3/8"	REFG FILTER DRIER	2	27.00	54.00
AC RM 2S	SPORLAN	C303HH	3/8"	REFG FILTER DRIER	2	28.00	56.00
AC RM 2S	SPORLAN	HPC103	3/8"	REFG FILTER DRIER	1	19.00	19.00
AC RM 2S	SPORLAN	C489G	1-1/8"	REFG FILTER DRIER	1	99.00	99.00
AC RM 2S	SPORLAN	C437STHH	7/8"	REFG FILTER DRIER	2	76.00	152.00
AC RM 2S	SPORLAN	C307STHH	7/8"	REFG FILTER DRIER	4	31.25	125.00
AC RM 2S	SPORLAN	SF287T	7/8"	REFG FILTER DRIER	1	26.00	26.00
AC RM 2S	SPORLAN	C417S	7/8"	REFG FILTER DRIER	1	38.00	38.00
AC RM 2S	SPORLAN	C167S	7/8"	REFG FILTER DRIER	1	17.00	17.00
AC RM 2S	SPORLAN	C167STHH	7/8"	REFG FILTER DRIER	1	50.00	50.00
AC RM 2S	SPORLAN	C803	3/8"	REFG FILTER DRIER	1	26.00	26.00
AC RM 2S	SPORLAN	C306STHH	3/4"	REFG FILTER DRIER	8	4.75	38.00

ATTACHMENT C.11-2

BLDG 128 SHOP MATERIAL INVENTORY

LOCATION	BRAND NAME	PART/MODEL NUMBER	SIZE	DESCRIPTION	QTY	UNIT COST	TOTAL COST
AC RM 2S	HONEYWELL	T498B1512		THERMOSTAT	12	25.00	300.00
AC RM 2S	HONEYWELL	T651A2028		THERMOSTAT	4	41.00	164.00
AC RM 2S	HONEYWELL	L6006C1018		AQUASTAT	6	50.50	303.00
AC RM 2S	HONEYWELL	AT72D1691		TRANSFORMER	2	16.00	32.00
AC RM 2S	HONEYWELL	T991A1012		TEMP. CONTROLLER	3	114.00	342.00
AC RM 2S	HONEYWELL	T991A1004		TEMP. CONTROLLER	2	92.00	184.00
AC RM 2S	HONEYWELL	Q539H1009		SUB BASE	4	12.50	50.00
AC RM 2S	HONEYWELL	T7503A		THERMOSTAT	1	15.00	15.00
AC RM 2S	HONEYWELL	T76051A		THERMOSTAT	1	15.00	15.00
AC RM 2S	HONEYWELL	Q539J1006		SUB BASE	7	23.24	162.68
AC RM 2S	HONEYWELL	Q539A1014		SUB BASE	1	14.65	14.65
AC RM 2S	HONEYWELL	Q53961020		SUB BASE	1	16.43	16.43
AC RM 2S	HONEYWELL	Q539A1147		SUB BASE	1	16.43	16.43
AC RM 2S	HONEYWELL	Q730061014		SUB BASE	2	92.00	184.00
AC RM 2S	HONEYWELL	Q7300A1018		SUB BASE	1	93.90	93.90
AC RM 2S	HONEYWELL	Q67461058		SUB BASE	1	23.24	23.24
AC RM 2S	HONEYWELL	Q67461298		SUB BASE	1	21.33	21.33
AC RM 2S	HONEYWELL	Q539J1097		SUB BASE	1	19.10	19.10
AC RM 2S	HONEYWELL	T87F5181		THERMOSTAT	2	23.99	47.98
AC RM 2S	HONEYWELL	T822D1024		THERMOSTAT	1	24.42	24.42
AC RM 2S	HONEYWELL	T8082A1411		THERMOSTAT	1	102.25	102.25
AC RM 2S	HONEYWELL	T874E1016		THERMOSTAT	1	22.99	22.99
AC RM 2S	HONEYWELL	T874A1549		THERMOSTAT	2	19.20	38.40
AC RM 2S	HONEYWELL	T921A1191		THERMOSTAT	2	21.60	43.20
AC RM 2S	HONEYWELL	T874E1016		THERMOSTAT	2	93.70	187.40
AC RM 2S	WHITE RODGERS	1F97 36		THERMOSTAT	1	30.30	30.30
AC RM 2S	RANCO	K505		TEMP. CONTROLLER	5	22.41	112.05

ATTACHMENT C.11-2

BLDG 129 ELECTRIC SHOP MATERIAL INVENTORY

LOCATION	BRAND NAME	PART/MODEL NUMBER	SIZE	DESCRIPTION	QTY	UNIT COST	TOTAL COST
	NUTONE	QT200		QUIET TEST FAN	1		0.00
			6'	WOODEN LADDER - STEP	4	60.00	240.00
			8'	WOODEN LADDER - STEP	1	70.00	70.00
				FLAT SHOVEL	1	10.00	10.00
	LITHONIA	EL-M2		EMERGENCY LIGHT UNIT	5	15.00	75.00
				ORANGE SAFETY CONE	2	10.00	20.00
	NUTONE		8210	7" ROUND CEILING FAN	2	60.00	120.00
				ASSORTED CONN.	100	0.07	7.00
				ASSORTED K.O BLANDS, REDUCERS	50	0.15	7.50
				ASSORTED WASHERS	100	0.05	5.00
				ASSORTED FUSES AND HOLDERS	50	1.00	50.00
				ASSORTED TOGGLE BOLTS	100	1.00	100.00
				ASSORTED SWITCHES	11	2.50	27.50
				FUSES 600V AND 125V	20	1.00	20.00
				ASSORTED PANEL BLANKS	30	1.00	30.00
				ASSORTED FENDER WASHERS	500	0.50	250.00
				ASSORTED GROUND CLAMPS	20	0.50	10.00
				TEMPORARY BULB SOCKETS	6	1.00	6.00
	CAROL	50W	16/3	RUBBER CABLE (500' ROLL)	1	25.00	25.00
	COPPER/BELDON	17462/SJT	10' 16/3	ADD A LINE EXTENSION CORD	3	20.00	60.00
	HILTI	45752/100HDI	1/4"	DROP IN ANCHORS	30	1.00	30.00
	CODET	ECEKTB2		LINE VOLTAGE CONTROL	2	15.00	30.00
	SEPCO	CW42	1 1/4" x 3/4"	REDUCING WASHERS	100	1.00	100.00
	GE	43693/Q150C40C		QUARTZLINE LAMPS	22	2.50	55.00
	ADVANCE	71A7801	50W	CORE AND COIL BALLAST (HPS)	1	10.00	10.00
	TORK	2101/2000W	120V	PHOTO CONTROL	6	10.00	60.00
	PARAGON	ET600/300W	120V	SWITCH COMMAND	3	7.00	21.00

ATTACHMENT C.11-2

BLDG 129 ELECTRIC SHOP MATERIAL INVENTORY

LOCATION	BRAND NAME	PART/MODEL NUMBER	SIZE	DESCRIPTION	QTY	UNIT COST	TOTAL COST
	SYLVANIA	CF1300-827 / GX23-2		COMPACT FLUORESCENT TUBE	46	2.00	92.00
				ASSORTED RECEPTACLES	15	2.50	37.50
	THOMAS BELTS	OWC		ANCHOR SCREW BOX SUPPORTS	25	1.00	25.00
	BUCHANON	B2-1		B-CAP CONNECTORS	200	1.50	300.00
	CUTLER HAMMER	CHB120	120/240	20 AMP CIRCUIT BREAKER S/P	10	7.00	70.00
	IDEAL	30-454		WING NUT	100	0.10	10.00
	EPCO			DUCT SEAL	2	5.00	10.00
	PERMA GUM	PP-22		SEALING COMPOUND (NON-STAIN)	1	5.00	5.00
FLAM LOCKER	SCOTCH 3M	130C		LINERLESS PULLING LUBRICANT	5	5.00	25.00
	SYLVANIA	LV-100 / S-54	100W	HPS LAMPS	24	1.00	24.00
	LONG LIFE	337A	100W	INCANDESCENT LAMPS	100	0.50	50.00
	SYLVANIA	BLV-150 / S55	150W	HPS LAMPS	16	1.25	20.00
	SYLVANIA	LV70 -ECO / S-51	70W	HPS LAMPS	19	1.25	23.75
	SYLVANIA	LV70 -MED / S-62	70W	HPS LAMPS	20	1.25	25.00
	SYLVANIA	LV-250 / S-50	250W	HPS LAMPS	5	1.25	6.25
	LONG LIFE	130v	150w	INCANDESCENT MED BASE 4N	50	0.75	37.50
	HUBBEL	NRG307PC / 120V	70W	PERMALUX FIXTURE HPS	3	2.00	6.00
	ADVANCE	71a8176001D / MULTI V	150	CORE AND COIL BALLAST HPS	1	10.00	10.00
			400W	CORE AND COILD BALLAST MERC.	2	10.00	20.00
	STEVCO	90-246 / RBM 122		2 POLE DEFINITE PURPOSE CONTACTOR	1	5.00	5.00
	OLB		4'	WOODEN LADDER -STEP	1	45.00	45.00

BLDG 129 PIPE SHOP MATERIAL INVENTORY

LOCATION	BRAND NAME	PART/MODEL NUMBER	SIZE	DESCRIPTION	QTY	UNIT COST	TOTAL COST
			3/4"	GATE VALVE SCREW	33	$5.00	165.00
			1/2"	GATE VALVE SCREW	10	$5.00	50.00
			1"	GATE VALVE SCREW	28	$5.00	140.00
			1 1/4"	GATE VALVE SCREW	35	$5.00	175.00
			1 1/2"	GATE VALVE SCREW	25	$5.00	125.00
			2"	GATE VALVE SCREW	20	$5.00	100.00
			2 1/2"	GATE VALVE SCREW	2	$5.00	10.00
			1/2"	GATE VALVE SWEAT	30	$5.00	150.00
			3/4"	GATE VALVE SWEAT	35	$5.00	175.00
			1"	GATE VALVE SWEAT	20	$5.00	100.00
			1 1/4"	GATE VALVE SWEAT	7	$5.00	35.00
			1 1/2"	GATE VALVE SWEAT	20	$5.00	100.00
			2"	GATE VALVE SWEAT	2	$5.00	10.00
			2 1/2"	GATE VALVE SWEAT	3	$5.00	15.00
			1/2"	GATE VALVE COMPRESSION	20	$5.00	100.00
			3/4"	GATE VALVE COMPRESSION	1	$5.00	5.00
			1/2"	BALL VALVE SCREW	5	$5.00	25.00
			3/4"	BALL VALVE SCREW	8	$5.00	40.00
			1"	BALL VALVE SCREW	15	$5.00	75.00
			1 1/4"	BALL VALVE SCREW	10	$5.00	50.00
			1 1/2"	BALL VALVE SCREW	1	$5.00	5.00
			2 1/2"	BALL VALVE SCREW	1	$5.00	5.00
			3"	BALL VALVE SCREW	1	$5.00	5.00
			1/2"	BALL VALVE SWEAT	4	$5.00	20.00
			3/4"	BALL VALVE SWEAT	4	$5.00	20.00
			1"	BALL VALVE SWEAT	6	$5.00	30.00
			1 1/4"	BALL VALVE SWEAT	4	$5.00	20.00

BLDG 129 PIPE SHOP MATERIAL INVENTORY

LOCATION	BRAND NAME	PART/MODEL NUMBER	SIZE	DESCRIPTION	QTY	UNIT COST	TOTAL COST
			2"	BALL VALVE SWEAT	10	$5.00	50.00
			2 1/2"	BALL VALVE SWEAT	2	$5.00	10.00
			3"	BALL VALVE SWEAT	3	$5.00	15.00
			1/2"	BALL VALVE COMPRESSION	30	$5.00	150.00
			3/4"	BALL VALVE COMPRESSION	20	$5.00	100.00
			1"	BALL VALVE COMPRESSION	15	$5.00	75.00
			1/2"	RADIATOR VALVE	30	$5.00	150.00
			3/4"	RADIATOR VALVE	25	$5.00	125.00
			1"	RADIATOR VALVE	30	$10.00	300.00
			1/2"	RADIATOR STEAM TRAP	35	$10.00	350.00
			3/4"	RADIATOR STEAM TRAP	30	$10.00	300.00
			1"	RADIATOR STEAM TRAP	6	$10.00	60.00
			1/2"	SWING CHECK VALVE	15	$5.00	75.00
			3/4"	SWING CHECK VALVE	10	$5.00	50.00
			1"	SWING CHECK VALVE	8	$5.00	40.00
			1 1/2"	SWING CHECK VALVE	13	$5.00	65.00
			2"	SWING CHECK VALVE	7	$5.00	35.00
			2 1/2"	SWING CHECK VALVE	4	$5.00	20.00
			3"	SWING CHECK VALVE	2	$5.00	10.00
			3/4"	STRAINERS	10	$10.00	100.00
			2"	STRAINERS	1	$10.00	10.00
			1/2"	ADD-A-VALVE	1	$5.00	5.00
			3/4"	ADD-A-VALVE	1	$5.00	5.00
			2"	BACKFLOW PREVENTER	2	$70.00	140.00
			1/2"	COPPER 90 DEG ELBOW	125	$1.00	125.00
			3/4"	COPPER 90 DEG ELBOW	100	$1.00	100.00
			1"	COPPER 90 DEG ELBOW	50	$1.00	50.00

BLDG 129 PIPE SHOP MATERIAL INVENTORY

LOCATION	BRAND NAME	PART/MODEL NUMBER	SIZE	DESCRIPTION	QTY	UNIT COST	TOTAL COST
			1 1/4"	COPPER 90 DEG ELBOW	75	$1.00	$75.00
			1 1/2"	COPPER 90 DEG ELBOW	75	$1.00	$75.00
			2"	COPPER 90 DEG ELBOW	50	$1.00	$50.00
			1/2"	COPPER 45 DEG ELBOW	100	$1.00	$100.00
			3/4"	COPPER 45 DEG ELBOW	200	$1.00	$200.00
			1"	COPPER 45 DEG ELBOW	100	$1.00	$100.00
			1 1/4"	COPPER 45 DEG ELBOW	30	$1.00	$30.00
			1 1/2"	COPPER 45 DEG ELBOW	30	$1.00	$30.00
			2"	COPPER 45 DEG ELBOW	30	$1.00	$30.00
			1/2"	COPPER TEES	75	$1.00	$75.00
			3/4"	COPPER TEES	150	$1.00	$150.00
			1"	COPPER TEES	150	$1.00	$150.00
			1 1/4"	COPPER TEES	100	$1.00	$100.00
			1 1/2"	COPPER TEES	70	$1.00	$70.00
			2"	COPPER TEES	50	$1.00	$50.00
			2 1/2"	COPPER TEES	2	$1.00	$2.00
			3"	COPPER TEES	4	$1.00	$4.00
			1/2"	COPPER COUPLER	150	$1.00	$150.00
			3/4"	COPPER COUPLER	100	$1.00	$100.00
			1"	COPPER COUPLER	150	$1.00	$150.00
			1 1/4"	COPPER COUPLER	150	$1.00	$150.00
			1 1/2"	COPPER COUPLER	150	$1.00	$150.00
			2"	COPPER COUPLER	50	$1.00	$50.00
			2 1/2"	COPPER COUPLER	4	$1.00	$4.00
			3"	COPPER COUPLER	2	$1.00	$2.00
			1/2"	COPPER MALE ADAPTER	75	$0.50	$37.50
			3/4"	COPPER MALE ADAPTER	20	$0.50	$10.00

BLDG 129 PIPE SHOP MATERIAL INVENTORY

LOCATION	BRAND NAME	PART/MODEL NUMBER	SIZE	DESCRIPTION	QTY	UNIT COST	TOTAL COST
			1"	COPPER MALE ADAPTER	20	$0.50	$10.00
			1 1/4"	COPPER MALE ADAPTER	2	$0.50	$1.00
			1/12"	COPPER MALE ADAPTER	10	$0.50	$5.00
			3"	COPPER MALE ADAPTER	2	$0.50	$1.00
			1/2"	COPPER FEMALE ADAPTER	50	$0.50	$25.00
			3/4"	COPPER FEMALE ADAPTER	10	$0.50	$5.00
			1"	COPPER FEMALE ADAPTER	40	$0.50	$20.00
			1 1/4"	COPPER FEMALE ADAPTER	10	$0.50	$5.00
			1 1/2"	COPPER FEMALE ADAPTER	8	$0.50	$4.00
			2"	COPPER FEMALE ADAPTER	10	$0.50	$5.00
			1/2"	COPPER UNION	20	$1.00	$20.00
			3/4"	COPPER UNION	5	$1.00	$5.00
			1"	COPPER UNION	10	$1.00	$10.00
			1 1/4"	COPPER UNION	6	$1.00	$6.00
			1 1/2"	COPPER UNION	10	$1.00	$10.00
			2"	COPPER UNION	15	$1.00	$15.00
			1/2" x C	BLK IRON NIPPLES	20	$0.50	$10.00
			1/2" x 1 1/2"	BLK IRON NIPPLES	20	$0.50	$10.00
			1/2" x 2"	BLK IRON NIPPLES	60	$0.50	$30.00
			1/2" x 2 1/2"	BLK IRON NIPPLES	20	$0.50	$10.00
			1/2" x 3"	BLK IRON NIPPLES	10	$0.50	$5.00
			1/2" x 3 1/2"	BLK IRON NIPPLES	30	$0.50	$15.00
			1/2" x 4"	BLK IRON NIPPLES	20	$0.50	$10.00
			1/2" x 4 1/2"	BLK IRON NIPPLES	20	$0.50	$10.00
			1/2" x 5"	BLK IRON NIPPLES	40	$0.50	$20.00
			1/2" x 5 1/2"	BLK IRON NIPPLES	50	$0.50	$25.00
			1/2" x 6"	BLK IRON NIPPLES	20	$0.50	$10.00

BLDG 129 PIPE SHOP MATERIAL INVENTORY

LOCATION	BRAND NAME	PART/MODEL NUMBER	SIZE	DESCRIPTION	QTY	UNIT COST	TOTAL COST
			3/4" x C	BLK IRON NIPPLES		$0.50	$0.00
			3/4" x 1 1/2"	BLK IRON NIPPLES		$0.50	$0.00
			3/4" x 2"	BLK IRON NIPPLES		$0.50	$0.00
			3/4" x 2 1/2"	BLK IRON NIPPLES		$0.50	$0.00
			3/4" x 3"	BLK IRON NIPPLES		$0.50	$0.00
			3/4" x 3 1/2"	BLK IRON NIPPLES		$0.50	$0.00
			3/4" x 4"	BLK IRON NIPPLES		$0.50	$0.00
			3/4" x 4 1/2"	BLK IRON NIPPLES		$0.50	$0.00
			3/4" x 5"	BLK IRON NIPPLES		$0.50	$0.00
			3/4" x 5 1/2"	BLK IRON NIPPLES		$0.50	$0.00
			3/4" x 6"	BLK IRON NIPPLES		$0.50	$0.00
			1" x C	BLK IRON NIPPLES		$0.50	$0.00
			1" x 1 1/2"	BLK IRON NIPPLES		$0.50	$0.00
			1" x 2"	BLK IRON NIPPLES		$0.50	$0.00
			1" x 2 1/2"	BLK IRON NIPPLES		$0.50	$0.00
			1" x 3"	BLK IRON NIPPLES		$0.50	$0.00
			1" x 3 1/2"	BLK IRON NIPPLES		$0.50	$0.00
			1" x 4"	BLK IRON NIPPLES		$0.50	$0.00
			1" x 4 1/2"	BLK IRON NIPPLES		$0.50	$0.00
			1" x 5	BLK IRON NIPPLES		$0.50	$0.00
			1" x 5 1/2"	BLK IRON NIPPLES		$0.50	$0.00
			1" x 6"	BLK IRON NIPPLES		$0.50	$0.00
			1 1/4" x C	BLK IRON NIPPLES		$0.50	$0.00
			1 1/4" x 2"	BLK IRON NIPPLES		$0.50	$0.00
			1 1/4" x 2 1/2"	BLK IRON NIPPLES		$0.50	$0.00
			1 1/4" x 3"	BLK IRON NIPPLES		$0.50	$0.00
			1 1/4" x 3 1/2"	BLK IRON NIPPLES		$0.50	$0.00

BLDG 129 PIPE SHOP MATERIAL INVENTORY

LOCATION	BRAND NAME	PART/MODEL NUMBER	SIZE	DESCRIPTION	QTY	UNIT COST	TOTAL COST
			1 1/4" x 4"	BLK IRON NIPPLES	20	$0.50	$10.00
			1 1/4" x 4 1/2"	BLK IRON NIPPLES	15	$0.50	$7.50
			1 1/4" x 5"	BLK IRON NIPPLES	10	$0.50	$5.00
			1 1/4" x 5 1/2"	BLK IRON NIPPLES	15	$0.50	$7.50
			1 1/4" x 6"	BLK IRON NIPPLES	30	$0.50	$15.00
			1 1/2" x C	BLK IRON NIPPLES	30	$0.50	$15.00
			1 1/2" x 2"	BLK IRON NIPPLES	30	$0.50	$15.00
			1 1/2" x 2 1/2"	BLK IRON NIPPLES	40	$0.50	$20.00
			1 1/2" x 3"	BLK IRON NIPPLES	20	$0.50	$10.00
			1 1/2" x 3 1/3"	BLK IRON NIPPLES	10	$0.50	$5.00
			1 1/2" x 4"	BLK IRON NIPPLES	20	$0.50	$10.00
			1 1/2" x 4 1/2"	BLK IRON NIPPLES	15	$0.50	$7.50
			1 1/2" x 5"	BLK IRON NIPPLES	20	$0.50	$10.00
			1 1/2" x 5 1/2"	BLK IRON NIPPLES	4	$0.50	$2.00
			1 1/2" x 6"	BLK IRON NIPPLES	10	$0.50	$5.00
			2" x C	BLK IRON NIPPLES	6	$0.50	$3.00
			2 x 2"	BLK IRON NIPPLES	10	$0.50	$5.00
			2" x 3"	BLK IRON NIPPLES	15	$0.50	$7.50
			2" x 3 1/2"	BLK IRON NIPPLES	4	$0.50	$2.00
			2" x 4"	BLK IRON NIPPLES	10	$0.50	$5.00
			2" x 4 1/2"	BLK IRON NIPPLES	12	$0.50	$6.00
			2" x 5"	BLK IRON NIPPLES	20	$0.50	$10.00
			2" x 5 1/2"	BLK IRON NIPPLES	10	$0.50	$5.00
			2" x 6"	BLK IRON NIPPLES	15	$0.50	$7.50
			2 1/2" x C	BLK IRON NIPPLES	1	$0.50	$0.50
			2 1/2" x 3"	BLK IRON NIPPLES	4	$0.50	$2.00
			2 1/2" x 4"	BLK IRON NIPPLES	4	$0.50	$2.00

BLDG 129 PIPE SHOP MATERIAL INVENTORY

LOCATION	BRAND NAME	PART/MODEL NUMBER	SIZE	DESCRIPTION	QTY	UNIT COST	TOTAL COST
			2 1/2" x 5 1/2"	BLK IRON NIPPLES	6	$0.50	$3.00
			2 1/2" x 6"	BLK IRON NIPPLES	15	$0.50	$7.50
			3" x C	BLK IRON NIPPLES	4	$0.50	$2.00
			3" x 3 1/2"	BLK IRON NIPPLES	10	$0.50	$5.00
			3" x 5"	BLK IRON NIPPLES	0.5	$0.50	$0.25
			3" x 6"	BLK IRON NIPPLES	4	$0.50	$2.00
			1/2" x C	GALVANIZED NIPPLES	10	$0.50	$5.00
			1/2" x 1 1/2"	GALVANIZED NIPPLES	10	$0.50	$5.00
			1/2" x 2"	GALVANIZED NIPPLES	20	$0.50	$10.00
			1/2" x 2 1/2"	GALVANIZED NIPPLES	20	$0.50	$10.00
			1/2" x 3"	GALVANIZED NIPPLES	40	$0.50	$20.00
			1/2" x 3 1/2"	GALVANIZED NIPPLES	30	$0.50	$15.00
			1/2" x 4"	GALVANIZED NIPPLES	50	$0.50	$25.00
			1/2" x 4 1/2"	GALVANIZED NIPPLES	30	$0.50	$15.00
			1/2" x 5"	GALVANIZED NIPPLES	50	$0.50	$25.00
			1/2" x 5 1/2"	GALVANIZED NIPPLES	20	$0.50	$10.00
			1/2" x 6"	GALVANIZED NIPPLES	20	$0.50	$10.00
			3/4" x C	GALVANIZED NIPPLES	10	$0.50	$5.00
			3/4" x 1 1/2"	GALVANIZED NIPPLES	10	$0.50	$5.00
			3/4" x 2"	GALVANIZED NIPPLES	25	$0.50	$12.50
			3/4" x 2 1/2"	GALVANIZED NIPPLES	40	$0.50	$20.00
			3/4" x 3"	GALVANIZED NIPPLES	40	$0.50	$20.00
			3/4" x 3 1/2"	GALVANIZED NIPPLES	50	$0.50	$25.00
			3/4" x 4"	GALVANIZED NIPPLES	30	$0.50	$15.00
			3/4" x 4 1/2"	GALVANIZED NIPPLES	40	$0.50	$20.00
			3/4" x 5"	GALVANIZED NIPPLES	40	$0.50	$20.00
			3/4" x 5 1/2"	GALVANIZED NIPPLES	40	$0.50	$20.00

BLDG 129 PIPE SHOP MATERIAL INVENTORY

LOCATION	BRAND NAME	PART/MODEL NUMBER	SIZE	DESCRIPTION	QTY	UNIT COST	TOTAL COST
			3/4" x 6"	GALVANIZED NIPPLES	30	$0.50	$15.00
			1" x C	GALVANIZED NIPPLES	4	$0.50	$2.00
			1" x 1 1/2"	GALVANIZED NIPPLES	2	$0.50	$1.00
			1" x 2"	GALVANIZED NIPPLES	10	$0.50	$5.00
			1" x 2 1/2"	GALVANIZED NIPPLES	15	$0.50	$7.50
			1" x 3"	GALVANIZED NIPPLES	30	$0.50	$15.00
			1" x 3 1/2"	GALVANIZED NIPPLES	40	$0.50	$20.00
			1" x 4"	GALVANIZED NIPPLES	30	$0.50	$15.00
			1" x 4 1/2"	GALVANIZED NIPPLES	20	$0.50	$10.00
			1" x 5"	GALVANIZED NIPPLES	10	$0.50	$5.00
			1" x 5 1/2"	GALVANIZED NIPPLES	10	$0.50	$5.00
			1" x 6"	GALVANIZED NIPPLES	8	$0.50	$4.00
			1 1/4" x C	GALVANIZED NIPPLES	10	$0.50	$5.00
			1 1/4" x 2"	GALVANIZED NIPPLES	10	$0.50	$5.00
			1 1/4" x 2 1/2"	GALVANIZED NIPPLES	8	$0.50	$4.00
			1 1/4" x 3"	GALVANIZED NIPPLES	20	$0.50	$10.00
			1 1/4" x 3 1/2"	GALVANIZED NIPPLES	6	$0.50	$3.00
			1 1/4" x 4"	GALVANIZED NIPPLES	15	$0.50	$7.50
			1 1/4" x 4 1/2"	GALVANIZED NIPPLES	10	$0.50	$5.00
			1 1/4" x 5"	GALVANIZED NIPPLES	10	$0.50	$5.00
			1 1/4" x 5 1/2"	GALVANIZED NIPPLES	5	$0.50	$2.50
			1 1/4" x 6"	GALVANIZED NIPPLES	10	$0.50	$5.00
			1 1/2" x C	GALVANIZED NIPPLES	6	$0.50	$3.00
			1 1/2" x 2"	GALVANIZED NIPPLES	3	$0.50	$1.50
			1 1/2" x 2 1/2"	GALVANIZED NIPPLES	10	$0.50	$5.00
			1 1/2" x 3"	GALVANIZED NIPPLES	6	$0.50	$3.00
			1 1/2" x 3 1/2"	GALVANIZED NIPPLES	10	$0.50	$5.00

BLDG 129 PIPE SHOP MATERIAL INVENTORY

LOCATION	BRAND NAME	PART/MODEL NUMBER	SIZE	DESCRIPTION	QTY	UNIT COST	TOTAL COST
			1 1/2" x 4"	GALVANIZED NIPPLES	10	$0.50	$5.00
			1 1/2" x 4 1/2"	GALVANIZED NIPPLES	15	$0.50	$7.50
			1 1/2" x 5"	GALVANIZED NIPPLES	10	$0.50	$5.00
			1 1/2" x 5 1/2"	GALVANIZED NIPPLES	5	$0.50	$2.50
			1 1/2" x 6"	GALVANIZED NIPPLES	10	$0.50	$5.00
			2" x C	GALVANIZED NIPPLES	2	$0.50	$1.00
			2" x 2"	GALVANIZED NIPPLES	6	$0.50	$3.00
			2" x 3"	GALVANIZED NIPPLES	4	$0.50	$2.00
			2" x 4 1/2"	GALVANIZED NIPPLES	4	$0.50	$2.00
			2" x 5"	GALVANIZED NIPPLES	10	$0.50	$5.00
			2" x 5 1/2"	GALVANIZED NIPPLES	10	$0.50	$5.00
			2" x 6"	GALVANIZED NIPPLES	4	$0.50	$2.00
			3" x 3 1/2"	GALVANIZED NIPPLES	4	$0.50	$2.00
			3" x 4 1/2"	GALVANIZED NIPPLES	3	$0.50	$1.50
			3" x 5 1/2"	GALVANIZED NIPPLES	8	$0.50	$4.00
			3" x 6"	GALVANIZED NIPPLES	3	$0.50	$1.50
			1/2"	REDUCING BUSHINGS	15	$0.50	$7.50
			1/2"	CAPS & PLUGS	40	$0.50	$20.00
			1/2"	COUPLERS	30	$0.50	$15.00
			1/2"	UNIONS	30	$0.50	$15.00
			1/2"	TEES	25	$0.50	$12.50
			1/2"	45 DEG ELBOW	20	$0.50	$10.00
			1/2"	90 DEG ELBOW	40	$0.50	$20.00
			3/4"	REDUCING BUSHINGS	30	$0.50	$15.00
			3/4"	45 DEG ELBOW	15	$0.50	$7.50
			3/4"	CAPS & PLUGS	25	$0.50	$12.50
			3/4"	COUPLERS	20	$0.50	$10.00

BLDG 129 PIPE SHOP MATERIAL INVENTORY

LOCATION	BRAND NAME	PART/MODEL NUMBER	SIZE	DESCRIPTION	QTY	UNIT COST	TOTAL COST
			3/4"	UNIONS	15	$0.50	$7.50
			3/4"	TEES	30	$0.50	$15.00
			3/4"	90 DEG ELBOW	30	$0.50	$15.00
			1"	REDUCING BUSHINGS	25	$0.50	$12.50
			1"	TEES	20	$0.50	$10.00
			1"	45 DEG ELBOW	25	$0.50	$12.50
			1"	CAPS & PLUGS	20	$0.50	$10.00
			1"	COUPLERS	15	$0.50	$7.50
			1"	UNIONS	25	$0.50	$12.50
			1"	90 DEG ELBOW	50	$0.50	$25.00
			1 1/4"	REDUCING BUSHINGS	30	$0.50	$15.00
			1 1/4"	45 DEG ELBOW	25	$0.50	$12.50
			1 1/4"	CAPS & PLUGS	25	$0.50	$12.50
			1 1/4"	COUPLERS	20	$0.50	$10.00
			1 1/4"	UNIONS	20	$0.50	$10.00
			1 1/4"	TEES	25	$0.50	$12.50
			1 1/4"	90 DEG ELBOW	30	$0.50	$15.00
			1 1/2"	REDUCING BUSHINGS	20	$0.50	$10.00
			1 1/2"	45 DEG ELBOW	10	$0.50	$5.00
			1 1/2"	CAPS & PLUGS	30	$0.50	$15.00
			1 1/2"	UNIONS	10	$0.50	$5.00
			1 1/2"	TEES	25	$0.50	$12.50
			1 1/2"	90 DEG ELBOW	25	$0.50	$12.50
			2"	REDUCING BUSHINGS	15	$0.50	$7.50
			2"	TEES	20	$0.50	$10.00
			2"	45 DEG ELBOW	10	$0.50	$5.00
			2"	CAPS & PLUGS	20	$0.50	$10.00

BLDG 129 PIPE SHOP MATERIAL INVENTORY

LOCATION	BRAND NAME	PART/MODEL NUMBER	SIZE	DESCRIPTION	QTY	UNIT COST	TOTAL COST
			2"	UNIONS	15	0.50	7.50
			2"	90 DEG ELBOW	20	0.50	10.00
				REPAIR KITS WATER CLOSET	15	10.00	150.00
			1 1/2"	P-TRAPS	15	2.00	30.00
				TANK FLUSH LEVERS	10	0.50	5.00
			1"	AIR REGULATORS	4	4.00	16.00
			3/4"	STEAM REG. VALVES	4	5.00	20.00
				PUMP SCREENS	24	0.25	6.00
	CHESTERTON	323	1/8"	PACKING PUMP - VALVE	25	0.50	12.50
	CHESTERTON	16255 1500	5/8	PACKING PUMP - VALVE	10	0.50	5.00
	CHESTERTON	300 800	3/4	PACKING PUMP - VALVE	20	0.50	10.00
	CHESTERTON	1710	1/2	PACKING PUMP - VALVE	80	0.50	40.00
	CHESTERTON	2010	3/4	PACKING PUMP - VALVE	60	0.50	30.00
	GORE	1600-B	1"	PACKING PUMP - VALVE	50	0.50	25.00
	FRENCO	1056-22	2"	CL / PL	12	1.00	12.00
	FRENCO		1 14"	CL / PL	8	1.00	8.00
	FRENCO		3"	CL / PL	10	1.00	10.00
	FRENCO	DEW56-44	4"	CL / PL	12	1.00	12.00
	FRENCO		6"	CL / PL	10	1.00	10.00
	FRENCO	1056-65	6 X 4	CL / PL	8	1.00	8.00
	FRENCO	1056-43	4 X 3	CL / PL	11	1.00	11.00
	CHERNE		6"	FLOOR DRAIN PLUGS	4	0.50	2.00
	CHERNE		4"	FLOOR DRAIN PLUGS	3	0.50	1.50
	CHERNE		2"	FLOOR DRAIN PLUGS	8	0.50	4.00
	CHERNE		3"	FLOOR DRAIN PLUGS	10	0.50	5.00
	CHERNE		1 1/2"	FLOOR DRAIN PLUGS	5	0.50	2.50
	GSA	64438	1/2"	ELEC TAPE	10	1.00	10.00

BLDG 129 PIPE SHOP MATERIAL INVENTORY

LOCATION	BRAND NAME	PART/MODEL NUMBER	SIZE	DESCRIPTION	QTY	UNIT COST	TOTAL COST
	LAWSON	5800	2"	DUCT TAPE	6	3.00	18.00
	MORTITE	VA-30	2"	PIPE WRAP	4	1.00	4.00
	NIBCO	WOG	3"	GATE VALVE	2	5.00	10.00
	WATTS	8346W	1 1/2"	REL. VALVE	1	5.00	5.00
	WATTS	86431	2"	REL. VALVE	2	5.00	10.00
	WATTS	C-1	3"	REL. VALVE	1	5.00	5.00
	WATTS	A-1830	4"	REL. VALVE	1	5.00	5.00
	SUPPER-AHIUM		1/2 THRU 5 1/2	BOLTS	300	0.10	30.00
	SUPPER-AHIUM		1/2 THRU 3 1/2	BOLTS	250	0.10	25.00
	SUPPER-AHIUM		3/8 THRU 3 1/2	BOLTS	300	0.10	30.00
	SUPPER-AHIUM		3/4 THRU 3 1/2	BOLTS	300	0.10	30.00
	SUPPER-AHIUM		1/4	WASHERS	75	0.05	3.75
	SUPPER-AHIUM		5/16	WASHERS	75	0.05	3.75
	SUPPER-AHIUM		3/8	WASHERS	50	0.05	2.50
	SUPPER-AHIUM		7/16	WASHERS	50	0.05	2.50
	SUPPER-AHIUM		1/2	WASHERS	50	0.05	2.50
	SUPPER-AHIUM		5/8	WASHERS	40	0.05	2.00
	SUPPER-AHIUM		3/4	WASHERS	40	0.05	2.00
	SUPPER-AHIUM		1/4	NUTS	60	0.05	3.00
	SUPPER-AHIUM		5/16	NUTS	40	0.05	2.00
	SUPPER-AHIUM		3/8	NUTS	40	0.05	2.00
	SUPPER-AHIUM		1/17	NUTS	50	0.05	2.50
	SUPPER-AHIUM		1/2	NUTS	50	0.05	2.50
	SUPPER-AHIUM		5/8	NUTS	50	0.05	2.50
	SUPPER-AHIUM		3/4	NUTS	60	0.05	3.00
	GSA		1"	NUTS	50	0.05	2.50
	GSA		3/4"	BOLTS	50	0.10	5.00

BLDG 129 PIPE SHOP MATERIAL INVENTORY

LOCATION	BRAND NAME	PART/MODEL NUMBER	SIZE	DESCRIPTION	QTY	UNIT COST	TOTAL COST
	GSA		5/8"	BOLTS	70	$0.10	$7.00
	GSA		1/2"	BOLTS	70	$0.10	$7.00
	GSA		3/8"	BOLTS	80	$0.10	$8.00
			1/4"	BOLTS	100	$0.10	$10.00
				FLOAT BALLS	28	$1.00	$28.00
	CHERINE	270B7	3"	TEST BALL	5	$10.00	$50.00
	WATTS	9-D	1/2"	BACKFLOW PREVENTER	2	$75.00	$150.00
	SARCO	50938 FTLC-00		REPLACEMENT ASY	4	$10.00	$40.00
	SARCO	N0 4		REPLACEMENT ASY	3	$10.00	$30.00
	SARCO	81603 5		STN/STEEL FLOAT	8	$10.00	$80.00
	SARCO	B2-15 4		COMPLETE MC ASSY	5	$10.00	$50.00
	SARCO	B3-2 4		COMPLETE MC ASSY	1	$10.00	$10.00
	TRANE	CB3-3 12-71		BELLOW	2	$10.00	$20.00
	SARCO	1U87 81633		ELEMENT SET	11	$10.00	$110.00
	SARCO	54902 3		RENEWAL PARTS	3	$10.00	$30.00
	SARCO	68143 P 89		ELEMENT SET	12	$10.00	$120.00
	SARCO	66445 H 92		REPAIR KIT	12	$5.00	$60.00
	SARCO	66444 3		REPAIR KIT	12	$5.00	$60.00
	SARCO	66446 3		REPAIR KIT	10	$5.00	$50.00
	SARCO	54901 3		RENEWAL PARTS KIT	12	$10.00	$120.00
	TRANE	F 21		REPAIR KIT	1	$5.00	$5.00
	GSA	RRC2710	1"	CHAIN CLASS Z (FT)	12	$2.00	$24.00
	GSA		3/4" X 4"	BOLTS	125	$0.10	$12.50
	GSA	02	3/4" X 4 1/2"	BOLTS	25	$0.10	$2.50
	GSA	6531	3 1/2" X 6	BOLTS	25	$0.10	$2.50
	GSA	7714	1/2" X 4	BOLTS	50	$0.10	$5.00
	GSA	6887	1/8 X 2	THUMB STEEL TACK	50	$0.10	$5.00

ATTACHMENT C.11-2

BLDG 129 PIPE SHOP MATERIAL INVENTORY

LOCATION	BRAND NAME	PART/MODEL NUMBER	SIZE	DESCRIPTION	QTY	UNIT COST	TOTAL COST
	GSA	8950	5/8 X 3	BOLTS	20	$0.10	$2.00
	GSA	8371	1/2 X 3 1/2	BOLTS	25	$0.10	$2.50
	GSA	1885	1/2 X 5	BOLTS	50	$0.10	$5.00
	SUPPER-AHIUM		1/4 X 1 1/2	BOLTS	400	$0.10	$40.00
	SUPPER-AHIUM		1/4 THRU 3 1/2	BOLTS	400	$0.10	$40.00
	SUPPER-AHIUM		5/16 THRU 3 1/2	BOLTS	300	$0.10	$30.00
	SUPPER-AHIUM		3/5 THRU 3 1/2	BOLTS	300	$0.10	$30.00
	SARCO	1-H	4"	1-SET DIAPHRAGM	2	$2.00	$4.00
	SARCO	1-H	2 1/2	1-SET DIAPHRAGM	3	$2.00	$6.00
	SARCO	2-F		DIAPHRAGM ASSY	3	$2.00	$6.00
	SARCO	1-H	1/2 X 3/4	DIAPHRAGM ASSY	3	$2.00	$6.00
	SARCO	1-H	2"	DIAPHRAGM ASSY	2	$2.00	$4.00
	SARCO	S7162 1-K	4"	GASKET KIT	2	$5.00	$10.00
	SARCO	S7135 1D	4"	SPRING AND SCREEN	3	$2.00	$6.00
	SARCO	A-1/81	1"	ADJ. SCREW -P-PILOT	3	$2.00	$6.00
	SARCO	2-G		SEAL & GASKET	3	$1.00	$3.00
	SARCO	S747 1-F	4"	LOWER STEM-NUT-GUIDE	2	$1.00	$2.00
	SARCO	2-G		LOWER STEM-NUT-GUIDE	2	$1.00	$2.00
	SARCO	S7166 2-D		ADJ. SCREW W/NUT, SPRING	2	$1.00	$2.00
	SARCO	56584 2-H		ADJ. SCREW W/NUT, SPRING	1	$1.00	$1.00
	SARCO	66180	3/4	NPT	1	$0.50	$0.50
	SARCO	660080	1/2 X 3/4	FLOAT TRAP BALL	5	$1.00	$5.00
	SARCO	4117 11		CAGE-UNIT	20	$1.00	$20.00
	SARCO	58127 1A		COVER GASKET FLOAT TRAP	10	$10.00	$100.00
	SARCO	B3&B32 1-A		BUCKET TRAPS	4	$10.00	$40.00
	SARCO	B4 - B42 1-A		COVER GASKET TRAPS	5	$10.00	$50.00
	TRANE	FH-23		REPAIR KIT - C	2	$2.00	$4.00

BLDG 129 PIPE SHOP MATERIAL INVENTORY

LOCATION	BRAND NAME	PART/MODEL NUMBER	SIZE	DESCRIPTION	QTY	UNIT COST	TOTAL COST
	SARCO	0112082 FTS5123	1/2 - 3/4	AIR VENT SET	1	$1.00	$1.00
	SARCO	SS199 3		AIR VENT SET	1	$1.00	$1.00
	TRANE	CB3-5		BELLOW	1	$1.00	$1.00
	SARCO	5-L		STEEL FLOAT	5	$1.00	$5.00
	SARCO	5	3/4 X 1	STEEL FLOAT	6	$1.00	$6.00
	SARCO	5/91 6A		MONEL STR ASSY	1	$1.00	$1.00
	SARCO	6		MONEL STR ASSY	3	$1.00	$3.00
	KORKY	54X		FLAPPER TANK BALL	6	$1.00	$6.00
	MANSFIELD	144 41		TRIP LEVER & HANDLE	15	$1.00	$15.00
	HARVEYS	011305		WAX URINAL GASKET	9	$0.50	$4.50
	PLOX FLANGE	91-65-SM		WAX TOILET RING	7	$0.50	$3.50
	HARVEYS	004305		NO-SEED NO 3 RING	3	$0.50	$1.50
	HARVEYS	011005		BOL WAX NOT 5	7	$0.50	$3.50
	SARCO	3000612		ANGLE STOP	20	$0.50	$10.00
	BRASSCRAFT	3990807		3/8 X 1/2 ANGLE STOP	20	$0.50	$10.00
	DELTA	511HF		COMMERCIAL FAUCETS	4	$50.00	$200.00
	DELTA	100 11800		SINGLE HANDLE FAUCETS	13	$40.00	$520.00
	T&S	B-0065-BSTE		SERVICE SINK FCT	1	$50.00	$50.00
	T&S	B-0231		SERVICE SINK FCT	2	$50.00	$100.00
	CHERNE	270-032	3"	TEST BALL PLUG	12	$10.00	$120.00
	SPRAY/SARCO	80013 N0. 11	3/4" X 1"	FLOAT TRAPS	21	$10.00	$210.00
	SARCO	K9-0	3/4" X 1	FLOAT TRAPS	20	$10.00	$200.00
	ABBOTT	F36 FT15		REPAIR KITS WATER CLOSET	25	$10.00	$250.00
	DUNHAMBUSH	1-E		CAP - DISC	12	$1.00	$12.00
	SARCO	UBP30 1270080	1/2 X 3/4	GASKET & SCREW SET	5	$1.00	$5.00
	SARCO	66180	3/4	PIPELINE CONNECTOR	2	$1.00	$2.00
	SARCO	66178	1/2	PIPELINE CONNECTOR	4	$1.00	$4.00

ATTACHMENT C.11-2

BLDG 129 PIPE SHOP MATERIAL INVENTORY

LOCATION	BRAND NAME	PART/MODEL NUMBER	SIZE	DESCRIPTION	QTY	UNIT COST	TOTAL COST
	SPIRAX	FT-15	3/4	BUTTET TRAP	10	$10.00	$100.00
	SARCO	15-484	1"	BUTTET TRAP	8	$10.00	$80.00
	SARCO	15-887	1 1/4"	BUTTET TRAP	3	$10.00	$30.00
	SARCO	FT-15	2"	BUTTET TRAP	6	$10.00	$60.00
	SARCO	50926	3/4	BUTTET TRAP	8	$10.00	$80.00
	SARCO	506	3/4	BUTTET TRAP	8	$10.00	$80.00
	SARCO		1/2	BUTTET TRAP	2	$10.00	$20.00
	SPRAY NIVES	22732	32 OZ	GREZ-OFF	16	$1.00	$16.00
	PENETRATE-77		1 PT	RUST & CORROSION REMOVER	2	$1.00	$2.00
	HILTI	CF128	24 OZ	FILLER FOAM	9	$1.00	$9.00
	WELD-ON	10208	1 GAL	P-68 PRIMER	1	$2.00	$2.00
	PERMATEX	22-F	1 GAL	PENETRATING OIL	2	$1.00	$2.00
	HILTI	CFR-1	500MI	CLEANER	4	$1.00	$4.00
	DRUMMOND	5X0058	5 GAL	ORANGE EDDY	1	$1.00	$1.00
	KLEIN	51000	24 OZ	PULLING LUBRICANT	5	$1.00	$5.00
	DRUMMOND		5 GAL	CHROME - DOME	1	$1.00	$1.00
	PREMIER	705PT	16 OZ	PIPE CEMENT	7	$2.00	$14.00
	OATEY	30821	8 OZ	PIPE CEMENT	29	$2.00	$58.00
	OATEY	30795	16 OZ	CLEANER	12	$2.00	$24.00
	RUBATEX	GR106	16 OZ	ADHESIVE	3	$2.00	$6.00
	US	10708	16 OZ	CUTTING OIL	3	$2.00	$6.00
	SEXAUER	029355	8 OZ	SEALING COMPOUND	17	$2.00	$34.00
	GSA	8030002523391	12 OZ	GASKET SEAL	3	$2.00	$6.00
	PERMATEX	14D	16 OZ	TEFLON SEALANT	3	$2.00	$6.00
	RED LION	74102	16 OZ	TOOL COOL	2	$2.00	$4.00
	LAWSON	90575	16 OZ	WHITE GREASE	8	$2.00	$16.00
	BEST	58232		A/S ACTUATING UNIT	1	$2.00	$2.00

BLDG 129 PIPE SHOP MATERIAL INVENTORY

LOCATION	BRAND NAME	PART/MODEL NUMBER	SIZE	DESCRIPTION	QTY	UNIT COST	TOTAL COST
	BEST	57005		FLUSH VALVE	1	$5.00	$5.00
	CS	4801C		LIFT WIRES TANK BALL	8	$1.00	$8.00
	AMERICAN STANDARD	51107		SEAT DISC	50	$1.00	$50.00
	BEST	29177		FLUSH VALVE	30	$1.00	$30.00
	DO IT	OM1-25		FLUSH LEVER	11	$1.00	$11.00
	DELTA	RP3614		FAUCET PARTS	6	$1.00	$6.00
	SEXAUER	086454		MULTI-SEAL TANK BALL	6	$1.00	$6.00
	SEXAUER	185306 DE-2-OEM		DELTA SEAT KIT	6	$5.00	$30.00
	BEST	68218		BAR BUMPER	12	$1.00	$12.00
	TRAYCO	63304 OEM-B39		REPLACEMENT FOR SLOAN	30	$5.00	$150.00
	SEXAUER	108811		SOAP DISH	1	$2.00	$2.00
	TSG	50214172 2F-90C		LAV COLD SIDE STEM & WASHER	3	$1.00	$3.00
	HONEYWELL	T104B1038		THERMOSTATIC CONTROL	2	$5.00	$10.00
	PNEULINE	V110D100		STEAM CONTROLS	6	$5.00	$30.00
	PLUMBSHOP	PS2310		FAUCET WASHERS	50	$0.10	$5.00
	FERNCO	FT150		QWIK TRAP	1	$2.00	$2.00
	BEST	29526		F. HANDLES	12	$1.00	$12.00
	C&S	20C		F. HANDLES	8	$1.00	$8.00
	BEST	63620		SOAP HOLDER	5	$2.00	$10.00
	SEXAUER	005277		HANDLES	10	$1.00	$10.00
	BEST	63959		PAPER DIS.	5	$2.00	$10.00
	SEXAUER	093385		FLUSH VALVE V. BREAKER	12	$2.00	$24.00
	THERMOSTAT	9000509		HOT WATER HEATER	12	$100.00	$1,200.00
	COLT	3245		ELEMENT HEATER	15	$15.00	$225.00
	SEXAUER	172569		ELEMENT HEATER	1	$15.00	$15.00
	CALMCO	27409		ELEMENT HEATER	2	$15.00	$30.00
		0115		ELEMENT HEATER	8	$15.00	$120.00

BLDG 129 PIPE SHOP MATERIAL INVENTORY

LOCATION	BRAND NAME	PART/MODEL NUMBER	SIZE	DESCRIPTION	QTY	UNIT COST	TOTAL COST
		F-245-1		ELEMENT HEATER	10	$15.00	$150.00
	CHROMALOX	2K635		ELEMENT HEATER	2	$15.00	$30.00
		2E298		ELEMENT HEATER	4	$15.00	$60.00
	COLT	15971		REPAIR HANDLES	50	$1.00	$50.00
	NOVA	740401		MNONE VENT RELIEF V.	4	$1.00	$4.00
	BRADLEY	4T009A		EYE WASH	4	$50.00	$200.00
	SPEAKMAN	SE-572		EYE WASH	4	$50.00	$200.00
	PVC CAPS		1"	PVC CAPS	6	$1.00	$6.00
	PVC CAPS		1 1/4"	PVC CAPS	5	$1.00	$5.00
	PVC CAPS		1 1/2"	PVC CAPS	5	$1.00	$5.00
	PVC CAPS		2"	PVC CAPS	3	$1.00	$3.00
	PVC CAPS		3"	PVC CAPS	3	$1.00	$3.00
	PVC CAPS		4"	PVC CAPS	2	$1.00	$2.00
	PVC CAPS		6"	PVC CAPS	1	$1.00	$1.00
	PVC CHK VALVE		2"	PVC CHECK VALVES	1	$5.00	$5.00
	PVC CHK VALVE		4"	PVC CHECK VALVES	1	$5.00	$5.00
	PVC CHK VALVE		6"	PVC CHECK VALVES	1	$5.00	$5.00
	SEXAUER	066191		VACUUM BREAKER	16	$1.00	$16.00
	JAMECO	632-22-3		2 PC PO PLUG	4	$1.00	$4.00
	COLT	19098	20"	CROME TAIL PIECE	10	$4.00	$40.00
	COLT	0306145 F5ACP	1 1/2"	CHROME COUPLING	12	$4.00	$48.00
	SLOAN	3308780 H-533-AS		SWEAT SOLDER ADAPTOR KIT	10	$4.00	$40.00
	FLUIDMASTER	BIT12	12"	3/8" TO 7/8" BALL COCK THD	5	$3.00	$15.00
	A&B	4439 PC12	12"	FAUCET SUPPLY LINE	10	$2.50	$25.00
	SLOAN	B-32-A NB32-A		HANDLE ASSEMBLY COMPLETE	20	$5.00	$100.00
	SEXAUER	062026		SINK STRAINER	12	$1.00	$12.00
	KOHLER	18152 1P18752	1 1/2 X 3 1/16	STRAINER	5	$1.00	$5.00

BLDG 129 PIPE SHOP MATERIAL INVENTORY

LOCATION	BRAND NAME	PART/MODEL NUMBER	SIZE	DESCRIPTION	QTY	UNIT COST	TOTAL COST
	SEXAUER	066159	1 1/2 X 3 1/16	VACUUM BREAKER	3	$2.00	$6.00
	COLT	10790		DUAL THREAD CONSERVOROTOR	22	$2.00	$44.00
	COLT	08042		MALE/FEMALE AERATOR	10	$1.00	$10.00
	EEMS	100677		CHROME TRAP NUTS	20	$1.00	$20.00
		060475		CLOSET BOLTS, NUTS & WASHERS	46	$0.10	$4.60
	SLOAN	H-533-AS	1"	SWEAT SOLDER KIT	5	$4.00	$20.00
	BEST	81127		17. GA FLAT GRID PO BASIN	6	$1.00	$6.00
	PVC		3"	PVC COUPLINGS	6	$1.00	$6.00
	PVC		4"	PVC COUPLINGS	6	$1.00	$6.00
	PVC		6"	PVC COUPLINGS	2	$1.00	$2.00
	PVC		8"	PVC COUPLINGS	2	$1.00	$2.00
	PVC		1 /2 TO 3/4	PVC REDUCERS	8	$1.00	$8.00
	PVC		3/4 TO 1"	PVC REDUCERS	8	$1.00	$8.00
	PVC		1 1/2 TO 1 1/2	PVC REDUCERS	6	$1.00	$6.00
	PVC		1 1/2 X 2"	PVC REDUCERS	5	$1.00	$5.00
	PVC		2" X 3"	PVC REDUCERS	4	$1.00	$4.00
	PVC		3" X 4"	PVC REDUCERS	3	$1.00	$3.00
	PVC		4" X 6"	PVC REDUCERS	1	$1.00	$1.00
	PVC		2"	PVC UNIONS	2	$1.00	$2.00
	PVC		3"	PVC UNIONS	2	$1.00	$2.00
	PVC		4"	PVC UNIONS	1	$1.00	$1.00
	PVC		6"	PVC UNIONS	1	$1.00	$1.00
	PVC		1/2"	PVC TEES	6	$1.00	$6.00
	PVC		3/4"	PVC TEES	5	$1.00	$5.00
	PVC		1"	PVC TEES	7	$1.00	$7.00
	PVC		1 1/4"	PVC TEES	4	$1.00	$4.00
	PVC		1 1/2"	PVC TEES	4	$1.00	$4.00

BLDG 129 PIPE SHOP MATERIAL INVENTORY

LOCATION	BRAND NAME	PART/MODEL NUMBER	SIZE	DESCRIPTION	QTY	UNIT COST	TOTAL COST
	PVC		2"	PVC TEES	5	$1.00	$5.00
	PVC		3"	PVC TEES	4	$1.00	$4.00
	PVC		4"	PVC TEES	4	$1.00	$4.00
	PVC		6"	PVC TEES	4	$1.00	$4.00
	OATEY	43539	3"	PVC REPLACEMENT FLANGE	2	$1.00	$2.00
	PVC		1/2"	PVC CAPS	4	$1.00	$4.00
	PVC		3/4"	PVC CAPS	6	$1.00	$6.00
	SEXAUER	0156851		HOT WATER CONNECTORS	15	$1.00	$15.00
	PVC		1/2"	90 DEG ELL	20	$1.00	$20.00
	PVC		3/4"	90 DEG ELL	20	$1.00	$20.00
	PVC		1"	90 DEG ELL	15	$1.00	$15.00
	PVC		1 1/4"	90 DEG ELL	8	$1.00	$8.00
	PVC		1 1/2"	90 DEG ELL	9	$1.00	$9.00
	PVC		2"	90 DEG ELL	9	$1.00	$9.00
	PVC		3"	90 DEG ELL	7	$1.00	$7.00
	PVC		4"	90 DEG ELL	8	$1.00	$8.00
	PVC		6"	90 DEG ELL	4	$1.00	$4.00
	PVC		8"	90 DEG ELL	4	$1.00	$4.00
	PVC		1/2"	45 DEG ELL	11	$1.00	$11.00
	PVC		3/4"	45 DEG ELL	10	$1.00	$10.00
	PVC		1"	45 DEG ELL	15	$1.00	$15.00
	PVC		1 1/4"	45 DEG ELL	7	$1.00	$7.00
	PVC		1 1/2'	45 DEG ELL	7	$1.00	$7.00
	PVC		2"	45 DEG ELL	6	$1.00	$6.00
	PVC		3"	45 DEG ELL	6	$1.00	$6.00
	PVC		4"	45 DEG ELL	4	$1.00	$4.00
	PVC		6"	45 DEG ELL	4	$1.00	$4.00

BLDG 129 PIPE SHOP MATERIAL INVENTORY

LOCATION	BRAND NAME	PART/MODEL NUMBER	SIZE	DESCRIPTION	QTY	UNIT COST	TOTAL COST
	PVC		8"	45 DEG ELL	1	$1.00	$1.00
			1/2"	COUPLINGS	15	$1.00	$15.00
			3/4"	COUPLINGS	12	$1.00	$12.00
			1"	COUPLINGS	6	$1.00	$6.00
			1 1/4"	COUPLINGS	2	$1.00	$2.00
			1 1/2"	COUPLINGS	3	$1.00	$3.00
			2"	COUPLINGS	4	$1.00	$4.00
	BEST	8704	1-1/2	POLY TAIL PIECE WASHER	50	$0.20	$10.00
	SLOAN	48805		V-B REPAIR KIT	12	$1.00	$12.00
	CO	491400	1 1/2" X 16"	TUBE TEE CHROME PLATED	15	$2.00	$30.00
	FLOOD GUARD	3F	3"	FLOOR DRAINS BASEMENTS	3	$5.00	$15.00
	FLOOD GUARD	N24F	4"	FLOOR DRAINS BASEMENTS	8	$5.00	$40.00
	FRUGAL FL	00003-3		RETROFLAPPER	7	$1.00	$7.00
			4' X 80	SCREEN (FEET)	80	$1.00	$80.00
	A&B	CVT1009	20' - 5/8"	VINYL TUBING (FEET)	20	$1.00	$20.00
	A&B	CVT1020	20' -1"	VINYL TUBING (FEET)	20	$1.00	$20.00
	PEMS	1976796	1 1/2"	ADD-A-VALVE	1	$5.00	$5.00
	PEMS	1979159	2"	ADD-A-VALVE	1	$5.00	$5.00
	NO NANE		1/2"	COPPER TUBING (FEET)	60	$2.00	$120.00
	NO NANE		3/4"	COPPER TUBING (FEET)	60	$2.00	$120.00
	NO NANE		1"	COPPER TUBING (FEET)	70	$2.00	$140.00
	NO NANE		3/8	COPPER TUBING (FEET)	40	$2.00	$80.00
	RUBBER HOSE		3/4	RED HOSE (FEET)	10	$0.50	$5.00
	RUBBER HOSE		3/4	BLACK HOSE (FEET)	10	$0.50	$5.00
	COLT	18523	4"	CENTERSET FAUCET	6	$40.00	$240.00
	SEXAUER	303487	8"	CENTERSET FAUCET	6	$40.00	$240.00
	BOSTIK	N5BT-16	1 LB	NEVER-SEEZ	5	$1.00	$5.00

ATTACHMENT C.11-2

BLDG 129 PIPE SHOP MATERIAL INVENTORY

LOCATION	BRAND NAME	PART/MODEL NUMBER	SIZE	DESCRIPTION	QTY	UNIT COST	TOTAL COST
	RECTOR SEAL	PR-1	1 QT	PRIMER	2	$2.00	$4.00
	PEMS	1976761	3/4	ADD-A-VALVE	2	$5.00	$10.00
	PEMS	1976788	1"	ADD-A-VALVE	2	$5.00	$10.00
	SLOAN	5301170		DIAPHRAGM W/A29	120	$0.50	$60.00
	AMERICAN ST	8341-035		SERVICE FAUCET	3	$40.00	$120.00
	BEST	81106	1 1/2	CP TRAP	14	$1.00	$14.00
	PEMS	155042		CHROME TAIL PIPES	26	$2.50	$65.00
	DO IT	0-M0-1	1/4 HP	SUMP PUMP	1	$50.00	$50.00
	BLUE ANGEL	56551	1/3 HP	SUMP PUMP	1	$50.00	$50.00
				SUMP PUMP LARGE ONES	2	$50.00	$100.00
				TOILET SEATS	25	$15.00	$375.00
	SLOAN	186		FLUSHOMETER	10	$5.00	$50.00
	FLUSHBOY	451		FLUSH VALVE	8	$5.00	$40.00
	SEXAUER	032540		CLOSET KIT	26	$5.00	$130.00
	GUARDIAN	AP470100R		EYE WASH PARTS	20	$5.00	$100.00
	FLUIDMASTER	B8F16		FAUCET CONNECTOR	51	$5.00	$255.00
	SLOAN	137-A		DIAPHRAGM REPAIR KIT	43	$1.00	$43.00
	SLOAN/ROYAL			FLUSHOMETER	6	$5.00	$30.00
	CHICAGO	53044		FAUCETS	5	$40.00	$200.00
	T&S	B-0672-R		SLIP FAUCETS	7	$40.00	$280.00
	SLOAN	310		FOOT PEDAL FLUSHOMETER	5	$15.00	$75.00
	BEST	96028	1/2" X 3/4"	CHROME SPECIALTIES	100	$0.50	$50.00
	TRYACO INC	4836-6		THREADED TUBE	18	$1.00	$18.00
	DELANY	F141AC		FLUSH VALVES PARTS	14	$1.00	$14.00
	FLUIDMASTER	400A		FILL VALVE	7	$5.00	$35.00
	HOOK-R-LINE	91002	12"	ANTI-SIPITON BALLCOCK	2	$1.00	$2.00
	PERMATEX	80003		GASKET SEALANT	14	$1.00	$14.00

BLDG 129 PIPE SHOP MATERIAL INVENTORY

LOCATION	BRAND NAME	PART/MODEL NUMBER	SIZE	DESCRIPTION	QTY	UNIT COST	TOTAL COST
	SEXAUER	078600	1 1/2"	SPUD NUT FLANGE ASSY	24	$2.00	$48.00
			1 1/2" X 16"	CONTINUOUS WASTE OUTLET	30	$2.00	$60.00
	BEST	74301		SHOWER ROD SET	20	$5.00	$100.00
	BEST	68205	15"	BEAD CHAIN	10	$0.50	$5.00
	SLOAN	44413		HANDLE REPAIR KIT	12	$1.00	$12.00
	BEST	1 1/2 BLY		5-5 WAHSER	6	$0.20	$1.20
	SLOAN	43201		FOOT PEDAL REPAIR KIT	10	$7.00	$70.00
	FORD	FS1	2" -3"	EMS CLAMP	1	$0.50	$0.50
			3"	EMS CLAMP	1	$0.50	$0.50
			6"	EMS CLAMP	4	$0.50	$2.00
			8"	EMS CLAMP	3	$0.50	$1.50
			10"	EMS CLAMP	1	$0.50	$0.50
			12"	EMS CLAMP	2	$0.50	$1.00
	JCM	110-0132	1"	EMS CLAMP	6	$0.50	$3.00
	JCM		1/2"	EMS CLAMP	6	$0.50	$3.00
	JCM		3/4"	EMS CLAMP	6	$0.50	$3.00
	JCM		2" X 6	EMS CLAMP	6	$0.50	$3.00

ATTACHMENT C.11-3. REPORTS AND SUBMITTALS

ATTACHMENT C.11-3
Public Works - Facilities Maintenance
Reports and Submittals

PWS Paragraph	Report/Submittal Description or Title	Format	Required Date	Frequency	Distribution	Remarks
C.11.2.5.3.2	Annual Work Schedule for Preventive Maintenance Inspections (PMI)	Electronic/Written	60 Days prior to start of contract and any option period.	Annually	Government Representative	
C.11.2.5.3.3	Monthly Work Schedule for PMIs	Electronic/Written	7 Days prior to the start of each month.	Monthly	Government Representative	
C.11.2.8	Monthly Work Summary Report	Electronic	10th of each month.	Monthly	Government Representative	
C.11.6.1.2	PMI Performance Program	Electronic	30 Days prior to contract start.	Initial	Government Representative	
C.11.6.1.2.5	Completed PMI Work	Electronic/Written	Within 10 working days of completion of work.	As Required	Government Representative	
C.11.6.2.3.3	Daily report on all after-hours emergency and service calls.	Electronic/Written	0900 each work day.	Daily	Government Representative	
C.12.8.1.1.4	Backflow Preventer Testing/Inspection	Electronic/Written	Within 5 working days of completion of work.	As Required	Government Representative	
C.12.10.1.1.5	Explosives Grounding and Lightning Protection System Inspections	Electronic/Written	Within 5 working days of completion of work.	As Required	Government Representative	

ATTACHMENT C.11-4. PUBLICATIONS, DIRECTIVES AND INSTRUCTIONS

ATTACHMENT C.11-4
PUBLICATIONS, DIRECTIVES AND INSTRUCTIONS

United States Code			
Publication No./ Section/Para/Line	Title	Date	Mandatory (M)/ Advisory (A)
Title 5 USC 552a	Privacy Act of 1974	1974	M
Title 42 USC 13101-13109	Pollution Prevention Act of 1990	1990	M
CODE of FEDERAL REGULATIONS			
Publication No./ Section/Para/Line	Title	Date	Mandatory (M)/ Advisory (A)
Title 10 CFR 19	Notices, Instructions, and Reports to Workers; Inspection and Investigations	Jan-98	M
Title 10 CFR 20	Standards for Protection against Radiation	Jan-98	M
Title 10 CFR 30	Rules of General Applicability to Domestic Licensing of Byproduct Material	Jan-98	M
Title 10 CFR 34	Licenses for Industrial Radiography and Radiation Safety Requirements for Industrial Radiographic Operations	Jan-98	M
Title 10 CFR 35	Medical Use of Byproduct Material	Jan-98	M
Title 10 CFR 40	Domestic Licensing of Source Material	Jan-98	M
Title 10 CFR 70	Domestic Licensing of Special Nuclear Material	Jan-99	M
Title 10 CFR 71	Packaging and Transportation of Radioactive Material	Jan-99	M
Title 29 CFR 1910.12	Federal Hazard Communication Program	Jul-98	M
Title 29 CFR 1910.1450	Occupational Exposure to Hazardous Chemicals	Jul-98	M
Title 29 CFR 1926	Safety and Health Regulations for Construction	Jul-98	M
Title 29 CFR	Vehicle Safety		
Title 40 CFR 50-100, Subchapter C	Air Programs	Jul-98	M
Title 40 CFR 104-149, Subchapter D	Water Programs	Jul-98	M
Title 40 CFR 260-282	Resource Conservation and Recovery Act as amended by the Hazardous and Solid Waste Amendments of 1984	Jul-98	M
Title 40 CFR 302	Designation, Reportable Quantities, and Notification	Jul-98	M
Title 40 CFR 355-374	Emergency Planning and Community Right-to-Know	Jul-98	M
Title 40 CFR 300,301, 303-354, 375-399, 400-789			
Title 49 CFR 171			
Title 49 CFR 172	Hazardous Materials Table, Special Provisions, Hazardous Materials Communications, Emergency Response Information, and Training Requirements	Oct-98	M
Title 49 CFR 173	Shippers -- General Requirements for Shipments and Packagings	Oct-98	M
Title 49 CFR 174	Carriage by Rail	Oct-98	M
Title 49 CFR 175	Carriage by Aircraft	Oct-98	M
Title 49 CFR 176	Carriage by Vessel	Oct-98	M
Title 49 CFR 177	Carriage by Public Highway	Oct-98	M
Title 49 CFR 178	Specifications for Packagings	Oct-98	M
CFR 10	Code of Federal Regulations Energy Parts 1 to 50		

ATTACHMENT C.11-4
PUBLICATIONS, DIRECTIVES AND INSTRUCTIONS

DEPARTMENT OF DEFENSE (DOD)			
Publication No./ Section/Para/Line	Title	Date	Mandatory (M)/ Advisory (A)
DOD 3025.1-M	Manual for Civil Emergencies	Jun-94	M
DOD 4640.5	Defense Metropolitan Area Telephone Systems	Apr-85	M
DOD 5220.22-M	National Industrial Security Program Operating Manual	Jan-95	M
DOD 5220.22-R	Industrial Security Regulation	Dec-85	M
DOD 5330.3R AF Supp dated Feb 99	Defense Automated Printing Service (DAPS)	Feb-99	M
DOD 5500.7-R	Joint Ethics Regulation (JER)	Aug-93	M
DOD 7000.14-R	DOD Financial Management Regulation	Jun-93	M
DOD 7000.14-R Vol 8	Financial Management Regulation Volume 8 Civilian Pay Policy and Procedure	Jan-95	M
DOD 4145.19	Storage and Materials Handling	Sep-79	M
DOD 7200.10M	Accounting & Reporting for Government Property Lost, Damaged, or Destroyed	Mar-91	M
NAVFAC P-80	Facilities Planning Criteria for Navy & Marine Corps Shore Installations	Oct-82	M
NAVFAC P-72	Category Codes	Apr-84	M
NAVFAC P-73	Real Estate Manual	Jun-76	M
NAVFAC P-78	Navy Facility Assets Database Management System	Aug-92	M
NAVFAC P-960	Installation Design	Mar-81	A
NAVFAC P-68	Contracting Manual	Oct-96	M
NAVFAC P-164	Inventory of Naval Shore Facilities		
NAVFAC 442	Economic Analysis		
NAVFAC P-700	Engineered Performance Standards for Real Property Maintenance Activities		
NAVFAC P-307	Crane Repair, Certification, and Operation		
JFTR (Vols. 1 and 2)	Joint Federal Travel Regulation		
DOD 4500.36R	Management of Transportation		
DOD 4500.9R	Transportation regulation mobility		
DOD 4145.19R	Transportation of cargo material handling		
DOD 4500.34-R	Personal Property Traffic Management Regulation (PPTMR)		
-DOD 4500.32-R	Military Standard Transportation and Movement Procedures (MILSTAMP)		
-DOD 4500.25-1-M	MILSTRIP		
-DOD 4140.1-R	DOD Material Management Regulation		
-DOD 4515.13R	Air Transportation Eligibility		
-DOD 4500.9	Transportation and Traffic Management		
-DOD 4500.54	Foreign Clearance Guide		
-DOD 1000.21	Passport and Passport Agent Regulations		
-DOD 4500.14	Defense Transportation Regulation		
-DOD 4500.34	Worldwide DOD Personal Property Shipment and Storage Program		
MANUALS			

ATTACHMENT C.11-4
PUBLICATIONS, DIRECTIVES AND INSTRUCTIONS

Publication No./ Section/Para/Line	Title	Date	Mandatory (M)/ Advisory (A)
	ARCVIEW GIS Manual	1997	A
	NAVFAC Southwest Division A-E Guide	May-97	M
Mil Hdbk 1001.1	Engineering & Design Criteria and Documentation for Navy Facilities	Jan-97	A
Mil Hdbk 1001.5	Roofing and Waterproofing	Feb-90	A
Mil Hdbk 1003.17	Industrial Ventilation Systems	Feb-96	A
Mil Hdbk 1004.4	Electrical Utilization Systems	Oct-87	A
Mil Hdbk 1005.13	Hazardous Waste Storage Facilities	Apr-87	A
Mil Hdbk 1005.2	Hydrology	Jun-90	A
Mil Hdbk 1005.3	Drainage Systems	Sep-90	A
Mil Hdbk 1005.6	Civil Engineering – Trackage	Apr-82	A
Mil Hdbk 1005.7	Water Supply Systems	Nov-88	A
Mil Hdbk 1005.8	Domestic Wastewater Control	Sep-88	A
Mil Hdbk 1005.9	Industrial and Oily Wastewater Control	Sep-88	A
Mil Hdbk 1006.1	Policies and Procedures for Project Drawing and Spec Preparation	Jun-95	A
Mil Hdbk 1007.3	Soil Dynamics and Special Design Aspects	Nov-97	A
Mil Hdbk 1008B	Fire Protection for Facilities Engineering, Design, and Construction	Jan-94	A
Mil Hdbk 1013.1A	Design Guidelines for Physical Security for Facilities	Dec-93	A
Mil Hdbk 1014.14	Selection and Application of Vehicle Barriers	Feb-99	A
Mil Hdbk 1022	Petroleum Fuel Facilities	Jun-97	A
Mil Hdbk 1035	Family Housing Manual	Jun-89	A
Mil Hdbk 1036	Bachelor Housing	May-95	A
Mil Hdbk 1102.7	Concrete Pavement Repair	Nov-94	A
Mil Hdbk 1110.1	Handbook for Paints and Protective Coatings	Jan-95	A
Mil Hdbk 1114.2	Maintenance and Operation of Heating Systems	Dec-91	A
Mil Hdbk 1190	Facility Planning and Design Guide	Sep-87	A
NAVFAC Design Manual (DM)	Architectural Acoustics	May-85	A
NAVFAC DM 3.01	Plumbing Systems	May-86	A
NAVFAC DM 5.1	Solid Waste Disposal	Sep-86	A
NAVFAC DM 7.01	Soil Mechanics	Sep-86	A
NAVFAC DM 7.02	Foundations and Earth Structures	Sep-86	A
NAVFAC DM 7.3	Soil Dynamics, Deep Stabilization	Apr-83	A
NAVFAC DM 13.02	Commercial Intrusion Detection Systems	Sep-86	A
NAVFAC DM 102	Maintenance & Repair of Surface Areas	Oct-95	A
NAVFAC MO 306	Maintenance and Operation of Cathodic Protection Systems	Jul-92	M
NAVFAC MO 307	Corrosion Control	Sep-92	M
NAVFAC MO 321	Facilities Management	Sep-87	M
NAVFAC MO 324	Inspection & Certification of Boilers and Unfired Pressure Vessels	Mar-92	M
NAVCOMPT Manual, Vol 3	Civilian Timekeeping		M
NAVCOMPT Manual, Chapter 6	Accounting for Plant Property		M
Mil Hdbk 1010A	Cost Engineering	Aug-92	A

	Maintenance Standards for Improved Grounds, Southwestern Desert Region, NAVFACENGCOM	1981	A
	Architecture Graphic Standards	1994	A
	ACI Manual of Concrete Practice	1998	A
Mil Hdbk 1024.3	Oxyacetylene and Nitrogen and Breathing Oxygen Facilities	Mar-91	A
Mil Hdbk 1027.1A	Firefighting School Facilities	Jul-94	A
Mil Hdbk 1027.4	Aviation Training Facilities	Dec-93	A
Mil Hdbk 1028.5	Environmental Control – Design of Clean Rooms	May-89	A
Mil Hdbk 1029.3	Drydocking Facilities	Sep-88	A
NAVFAC DM 28.4	General Maintenance Facilities	Sep-84	A
NAVFAC DM 37.06	Chapels and Religious Education Facilities	Sep-85	A
MO-327	Facility Support Quality Management Manual, Change 94-01		M
INSTRUCTIONS			
Publication No./ Section/Para/Line	Title	Date	Mandatory (M)/ Advisory (A)
NAVFACINST 11010.44	Facilities Project Manual	Oct-90	M
NAVSUPINST 4450.22C	Submission of the Storage Space Management Report	Dec-97	M
OPNAVINST 11010.33B	Procurement, Lease, and Use of Relocatables	Jul-88	M
OPNAVINST 11010.20F	Facilities Project Manual	May-95	M
SECNAVINST 5216.5D	Correspondence Manual	Aug-96	M
SECNAVINST 5210.11D	Standard Subject Identification Codes	Oct-87	M
SECNAVINST 5500.4G	Reporting of Missing, Lost, Stolen, or Recovered Plant Property	Jun-93	M
SECNAVINST 11010.5E	Facility Projects for Minor Construction, Repair, and Maintenance of Real Property and Equipment	Feb-77	M
NAVFACINST 11010.14Q	Project Engineering Documentation, Proposed Milcon Construction Projects	May-88	M
CNETINST 11010.6B	Command Responsibilities and Procedures for Shore Activity Land Use and Facilities Planning and Programming	Oct-91	M
SECNAVINST 5212.5D	Navy and MC Record Disposition Manual	Apr-98	M
NAVFAC MO 114, 115, 200-207, 209, 210, 212, 213, 220, 230, 303, 304, and 322			M
SECNAVINST 11011.40A	Inventory of Military Real Property		M
OPNAVINST 4100.5D	Energy Management		M
CARDEROCKDIVINST 4101.1C	Energy Management Program	31-Oct-00	M
REGULATIONS			
Publication No./ Section/Para/Line	Title	Date	Mandatory (M)/ Advisory (A)

ATTACHMENT C.11-4
PUBLICATIONS, DIRECTIVES AND INSTRUCTIONS

	Uniform Plumbing Code	1991	M
	California Code of Regulations, Titles 22, 23, 27	1998	M
	California Code of Regulations, Titles 3,8, 13/17, 14, 24, and 26		
	Potable Water Treatment Permits, One for Nebo, one for Yermo		
PL-101-486	Energy Policy Act of 1992 (Public Law)		
EO 12902	Executive Order of March 1994 Energy Efficiency and Water Conservation at Federal Facilities		
	40 CFR 60-135, 261, 300-399, 400-789	1997	M
	49 CFR 171	1997	M
	Federal Acquisition Regulation (FAR)	Jun-97	M
OSHA 1910.146	Confined Space		
LOCAL BASE PUBLICATIONS			
Publication No./ Section/Para/Line	Title	Date	Mandatory (M)/ Advisory (A)
	Real Property Utilization & Reporting		M
	Internal Management Control Program		M
	Records Management Program		M
	Base Directives System Qtrly Checklist		M
	Preparation & Review of Base Directives		M
	Correspondence Procedures		M
	Microcomputers & Office Automation Systems		M
	Directives Distribution, Maintenance, and Procurement		M
	Command Chronology		M
	Digging Permits		M
	Performance Appraisal Review System		M
	Incentives Awards Program		M
MISCELLANEOUS			
Publication No./ Section/Para/Line	Title	Date	Mandatory (M)/ Advisory (A)
(No number)	R. S. Means estimating reference books	Various	A
(No number)	Building Codes reference books	Various	M
(No number)	Sweet Catalogs for General Building and Renovation	1992	A
(No number)	ASTM Standards in Building Codes	1997	M
(No number)	Construction Criteria Base subscription	1999	M
	Public Works Studies Library		A
	Engineering reference books		
STANDARD (SF) FORMS			
Publication No./ Section/Para/Line	Title	Date	Mandatory (M)/ Advisory (A)
SF 118	Report of Excess Real Property	Dec-53	M
SF 118A	Buildings, Structures, Utilities, and Miscellaneous Facilities	Dec-53	M
SF 364	Report of Discrepancy (Rod)	Feb-80	M
SF 1420	Performance Evaluation-Construction Contracts	Oct-83	M
SF 135	Records Transmittal and Receipt	Jun-76	M
SF 1445	Labor Standards Interview	Dec-96	M
SF 1421	Performance Evaluation (Architect-Engineer)		
		M	

ATTACHMENT C.11-4
PUBLICATIONS, DIRECTIVES AND INSTRUCTIONS

SF 1449	Solicitation/Contract/Order for Commercial Items	Oct-95	M
SF 1164	Claim for Reimbursement for Expenditures on Official Business	Nov-77	M
SF 1080	Voucher for Transfers between Appropriations and /or Funds		
SF 91	Motor Vehicle Accident Report		
DEPARTMENT OF DEFENSE			
Publication No./ Section/Para/Line	Title	Date	Mandatory (M)/ Advisory (A)
DD Form 254	DOD Contract Security Classification Specification	Dec-90	M
DD Form 448	Military Interdepartmental Purchase Request	Jun-72	M
DD Form 1354	Transfer and Acceptance of Military Real Property	Feb-90	M
DD Form 1391/1391C	Military Construction Project Data	Dec-76	M
DD Form 1556	Request, Authorization, Agreement, Certification of Training, and Reimbursement (Not LRA)	Mar-87	M
DD Form 1556-1	Request (Front)	Mar-87	M
DD Form 1610	Request and Authorization for TDY Travel of DOD Personnel	Jun-67	M
DD Form 1149	Requisition and Invoice/Shipping Document	Mar-59	M
DD Form 1351-2	Travel Voucher or Subvoucher	Oct-91	M
DD Form 805	Storage Space Management Report	Dec-97	M
DD Form 200	Financial Liability Investigation of Property Loss	Feb-91	M
DD Form 1348-1	DOD Single Line Item Release/Receipt Document		
DD Form 577	Signature Card	May-88	
DD Form 1970	Motor Equipment Utilization	Apr-81	
DD Form 518	Accident Identification	Oct-78	
DD Form 139	Pay Adjustment Authorization		
DD Form 1844	List of Property and Claims Analysis Chart		
DD Form 1843	Demand on Carrier/Contractor		
DD Form 1842	Claim for Loss of or Damage Personal Property Incident to Service		
MAJOR COMMAND FORMS			
Publication No./ Section/Para/Line	Title	Date	Mandatory (M)/ Advisory (A)
	Minor Construction FEMP/ECIP		M
	Environmental MRP Project Review and Validation Form		M
	Minor Construction Natural Resources Program		M
	Minor Construction OSHA Project		M
	Minor Construction Physical Security Project		M
	Minor Construction Safety Project (Non-Working)		M
	Minor Construction		M
	Project File Checklist		M
	DFSC-Fuel Project Survey Data Sheet		M
	Fire Protection Validation Form		M
	Energy & Utilities Project Data Survey Sheet		M
SERVICE/BRANCH FORMS			
Publication No./ Section/Para/Line	Title	Date	Mandatory (M)/ Advisory (A)

ATTACHMENT C.11-4
PUBLICATIONS, DIRECTIVES AND INSTRUCTIONS

OPNAV 5109/9	Dispensary Permit	Rev. Oct 92	
OPNAV 1650/3	Personal Award Recommendation	Jan-94	M
NAVFAC 4/4350/3	Contractor Payroll Receipt Record	May-70	M
NAVFAC 11013/10	Construction Representative's Report	Jan-74	M
NAVFAC 4330/36	Construction Contract Non-Compliance Notice	Jul-87	M
NAVFAC 4-4330-34	Daily Report to Inspector	Aug-83	M
NAVFAC 11013/7	Cost Estimate Form	Jan-78	M
NAVFAC P-11014/20	Work Request (Maintenance Management)	Feb-68	M
NAVCOMPT Form 2277	Voucher for Disbursement and/or Collection	Aug-88	M
NAVCOMPT Form 2035	Summary of Accounting Data	Sep-65	M
NAVCOMPT Form 3065	Leave Request/Authorization	Feb-83	M
NAVFAC 11200/3A	Shop Repair Order	Jan-73	M
NAVCOMPT Form 2282	Overtime/Compensatory Time Request and Authorization	Feb-83	M
NAVFAC 11010/29	Navy Facility Assets Database Class 2 Acquisition Property Record	Jun-92	M
NAVFAC 11010/31	Project Site Approval Explosive Safety Certification	Apr-87	M
NAVFAC 11013/7	Cost Estimate Form	Jan-78	M
NAVFAC 9-11014/20	Work Request	Feb-68	M
NAVFAC 9-11240/9	Activity Utilization Report	Jul-69	
NAVFAC 9-11240/13	Operator's Inspection Guide and Trouble Report		
MISC FORMS			
Publication No./ Section/Para/Line	Title	Date	Mandatory (M)/ Advisory (A)
(No Number)	Reservation Travel Request		M
(No Number)	Reprographic Request		M
(No Number)	Vehicle Mileage Report		M
(No Number)	Copier Service Log		M
(No Number)	Security Clearance for Passes for Contractors		M
(No Number)	Daily Vehicle Sign Out Sheet		M
(No Number)	Pre-Construction Conference Minutes and Checklist		M
(No Number)	Pre-Performance Conference Form		M
(No Number)	Hazardous Material Daily Usage Log		M
(No Number)	Estimated Schedule of Project Work		M
(No Number)	Contractor Lost Time Mishaps and Man-hour Report		M
(No Number)	Six-Day QAE Schedule Form		M
(No Number)	Pre-Final Inspection Sign-In Sheet		M
(No Number)	Contract Discrepancy Report		M
(No Number)	Customer Complaint Record		M
(No Number)	Department of the Navy Memorandum Quality Assurance Specialist to Service Contract Manager		M
(No Number)	Pre-Bid Opening Site Visitation Registration		M
(No Number)	Evaluation Worksheet		M
(No Number)	Slate Board Work Sheet		M
(No Number)	Customer Request & Evaluation Form		M
(No Number)	Digging Permit		M

ATTACHMENT C.11-4
PUBLICATIONS, DIRECTIVES AND INSTRUCTIONS

(No Number)	Utility Interruption Request		M
Domestic Form	Tire Repair Service (Road Call)		
Domestic Form	PMO Inspection Checklist		
Domestic Form	Weekly Generator Checklist		
Domestic Form	Cost Estimate for Reimbursable Customers		
Domestic Form	Mechanic Work Sheet		
Domestic Form	Work Schedule Change		

ATTACHMENT C.11-5. DEFINITIONS, ABBREVIATIONS AND ACRONYMS

ATTACHMENT C.11-5
Definitions, Abbreviations and Acronyms

Definitions	
Accident/Operator Abuse Repair	Repairs that are required as the direct result of operator negligence or from vehicle hitting or being hit by an object. Examples of accident/ operator abuse repairs are: broken window glass, dented sheet metal, engine failure that can be attributed to the lack of an operator's pre-op and post-op inspections, or repeated clutch failure caused by poorly trained/careless operators, etc.
Additional Material Handling	Time Expended For Loading Materials From Storage To Truck, Unloading Materials To Work Area, Moving Materials To Work Area, Moving Materials From Storage To Job Site, Removing Debris, And Handling Of Materials During The Job That Is Not Included In The Craft Time Standard. The Above Definition Is A Summary Of The Definition Of "Additional Material Handling" As Used In Development Of Engineered Performance Standards.
Adjust	To Regulate, Settle, Bring To A More Satisfactory State Of Normal Operating Condition
Alteration	An Alteration Includes All Work Necessary To Provide A New Complete And Usable Hvac, Refrigeration, Or Compressed Air System; Or To Provide A Complete And Usable Addition To An Existing System.
As Directed, "As Required", "As Permitted", "Approval", "Acceptance", Or Words Of Similar Import	It Shall Be Understood That Direction, Requirement, Permission, Approval, Or Acceptance Of The Contracting Officer Is Intended Unless Stated Otherwise.
As Shown, "As Indicated", "As Detailed", Or Words Of Similar Import	It Shall Be Understood That Reference Is Made To This Specification And The Drawings Accompanying This Specification Unless Stated Otherwise.
Backlogged Service Calls	A Routine Service Call Issued During The Previous Contract Which Was Not Completed For Any Reason, Or Maintenance, Repair And Minor Construction Requirements Which May Be Identified During Lapses, If Any, In Services Between This Contract And The Previous Contract.
Cannibalization	Removal of parts or components from a vehicle or equipment item for repair of another.
Check	Examine, Inspect, Test, Or Verify By Trial.
Collection Station	The Designated Points Where Solid Wastes Will Be Placed For Collection By The Service Provider. May Also Be Referred To As Collection Point, Pick-Up Stations, Or Collection Site.
Commercial vehicles	Sedans, vans, buses, pickup trucks, stake trucks, and any specialized vehicles or equipment needed for a one-time operation or for a short period of time
Component Part	Any Part Of Any Item Or System Which Is Detachable Or Removable From The Main Body Or Main Assembly Of The Item Or System; A Constituent Part Or An Essential Part Necessary To The Performances Of The System.

ATTACHMENT C.11-5
Definitions, Abbreviations and Acronyms

Construction/Alteration/Modification	Construction/Alteration/Modification as used throughout this PWS means any action/work on any facility, utility, or structure which results in a change to a current Public Works drawing and/or as-built such as an addition, deletion, modification, of a wall, door opening, or electrical circuit.
Corrective Maintenance	Corrective Maintenance Is Maintenance And Repair Work That Is Required To Return A System Or Component To Proper Operating Condition. Corrective Maintenance Shall Be Required On A Routine Basis (Operator Maintenance), As A Result Of Preventive Maintenance Inspections, Or As A Result Of Service Calls. Corrective Maintenance Is Limited In Total Cost To The Service Provider, As Specified In The "Corrective Maintenance Repair Limitation" Clause, Section C.
Deficiency	That which does not meet or conform to the Operations and Maintenance Standards, Supply Performance Standards or Transportation Performance Standards identified in this PWS.
Direct Material Costs	The Actual Vendor Invoice Charges For Materials Used For Performance Of Work Under This Contract. Direct Material Costs Shall Include Transportation Charges When Such Charges Are Included On The Invoice By The Vendor, As Well As Any Discounts Allowed For Prompt Payment And Discounts Or Rebates For Core Value Or Salvage Value That Accrue To The Service Provider. When Questions Arise Concerning The Cost Of Materials, Material Costs Will Be Based On The Lowest Of Quotes Provided By The Service Provider From At Least Three Different Commercial Vendors For The Direct Material Cost. The Government Retains The Right To Obtain Additional Quotes In Questionable Situations. The Lowest Price Will Be Used.
Distinguished Visitors	Flag/General Officers, civilian equivalents, or as otherwise determined by the COR, or KO
Distribution System	A distribution system is a system of pipes, wires, cables, tubing, or conduits through which energy, fluid, or gas is supplied to various buildings and facilities.
Downtime	The period of time during which a vehicle is inoperable. Downtime hours begin when the vehicle is removed from service and end when the user is notified that the vehicle is ready to return to service. Any time period during which a unit is returned to the SP to perform rework is included in the downtime computation.
Emergency	An emergency is any situation which causes or could cause damage to property; or which impacts or could potentially impact flight and Station operations; quality of life; safety or security of personnel or property; base fire prevention, control, and suppression; or which causes or could cause violations of Navy, DOD, Federal, State, or local laws and regulations.

ATTACHMENT C.11-5
Definitions, Abbreviations and Acronyms

Engineered Performance Standards	A Job Estimating System Developed For The Department Of Defense. Eps Is The Average Time Necessary For A Qualified Craftsman Working At A Normal Pace, Following Acceptable Trade Methods, Receiving Capable Supervision, And Experiencing Normal Delays To Perform Defined Amounts Of Work Of A Specified Quality. Eps Manuals Are Published Under The Following Numbers By Each Military Branch: Navy: Navfac P 700 Series, Army: Tb 420 Series, Air Force Afm 85 Series
Engineered Performance Standards (EPS)	A method for establishing man-hour requirements to perform various types of maintenance, repair, construction, and
Equipment	Equipment Includes The Following Types: (1) Portable Or Freestanding Equipment. Portable Or Freestanding Equipment Is Equipment Which Is Moveable And Not Affixed As An Integral Part Of The Real Property Facility. (2) Installed Equipment. Installed Equipment, Sometimes Called "Built-In" Equipment, Is Equipment And Furnishings Required For Operation And Affixed As A Part Of The Real Property.
Equipment Installation	The work required to prepare the site, install, and bring equipment into operation.
Equipment Modification	Any addition or change to a vehicle other than original manufacturer specification. Such work as installing specialized
Factory Recall	Correction of defects identified by the manufacturer.
Fixed Burden Rate	The Additional Costs (Expressed In Percent Of Direct Material Cost) For Ordering, Handling, And Stockpiling Materials For Work Included In The Indefinite Quantity, Unit Priced Labor Portion Of The Contract.
Frequency - Annual (A)	Services Performed Once During Each 12 Month Period Of The Contract.
Frequency - Daily (D5)	Services Performed Once Each Day, Monday Through Friday, Including Holidays Unless Otherwise Noted.
Frequency - Daily (D7)	Services Performed Once Each Day, Seven Days Per Week, Including Weekends And Holidays.
Frequency - Monthly (M)	Services Performed 12 Times During Each 12 Month Period Of The Contract At Intervals Of 28 To 31 Calendar Days.
Frequency - Quarterly (Q)	Services Performed Four Times During Each 12 Month Period Of The Contract At Intervals Of 80 To 100 Calendar Days.
Frequency - Semiannual (Sa)	Services Performed Twice During Each 12 Month Period Of The Contract At Intervals Of 160 To 200 Calendar Days.
Frequency - Semimonthly (Sm)	Services Performed 24 Times During Each 12 Month Period Of The Contract At Intervals Of 14 To 16 Calendar Days.
Frequency - Weekly (W)	Services Performed 52 Times During Each 12 Month Period Of The Contract At Intervals Of Six To Eight Calendar Days.
Garrison Mobile Equipment (GME)	Equipment under the responsibility of the Commandant of the Marine Corps (LFS2). This includes all Transportation equipment such as automotive vehicles and construction, railway, fire fighting, and mobile weight handling equipment.
Immediate/Immediately	Without delay. At once.

ATTACHMENT C.11-5
Definitions, Abbreviations and Acronyms

Installed Equipment	Installed equipment, sometimes called "built-in" equipment, is equipment and furnishings required for operation and affixed as a part of the real property.
Interim Breakdown Repairs	Unscheduled maintenance or repairs required on a vehicle between scheduled maintenance periods.
Inventory Record	A method in which to list those items of inventory which are located in each housing unit.
Latent Defects	Defects that are hidden or undeveloped and are not visible or apparent at the time of inspection, but which become visible or apparent at some future time.
Limited Technical Inspections	Vehicle and equipment inspection performed IAW NAVMAC 10284
Maintain/Maintenance	Maintain/Maintenance (Scheduled Or Unscheduled), As Used Throughout The Public Works Sections, Is That Work To Include Testing, Assembly, Disassembly, Adjustment, Aligning, Lubrication, Installation, Alteration, Overhaul, Repair, Replacement, Upgrade, Housekeeping, Cleaning, Or Any Other Action Required To Sustain Or Maintain The Equipment, System, Or Any Component Therein, In A Condition By Which The Equipment, System, Or Component Fully Provides Or Performs The Service For Which It Was Designed Or Installed And Meets The Operation And Maintenance Standards Specified Herein And Dod, Navy, Federal, State, And Local Regulations And Standards. In Addition Maintain/Maintenance Includes, If Applicable, Obtaining Proper Permits; Isolating Problems To Create Minimum Effect On Facilities And Customers; Excavating To The Damaged Area; And The Maintenance Required To Bring The Facility, Structure, Grounds, Or Any Portion Thereof To The Condition Prior To The Malfunction, Breakage, Leakage, Or Maintenance Being Required
Material Handling Equipment (MHE)	Self-propelled and conveyer equipment used in storage and materials handling operations in and around warehouses, industrial areas, airfields, magazines, depots, loading docks and terminals. Included are warehouse tractors, forklift trucks, rough terrain forklift trucks, platform trucks, pallet trucks, conveyers and
Minor Construction	A Minor Construction Project Is Defined As A Single Undertaking At A Military Installation That Includes All Construction Necessary To Produce A Complete And Usable Facility Or A Complete And Usable Improvement To An Existing Facility And Has An Approved Cost Equal To Or Less Than The Amount Specified By Law As The Maximum Amount For A Minor Military Construction Project.

ATTACHMENT C.11-5
Definitions, Abbreviations and Acronyms

Occurrence of Down Time	Each unscheduled interruption in the proper operation of a system, piece of equipment, facility, or component thereof that disrupts the intended service at the point of use. (Scheduled down time for maintenance, down time caused by an Act of God, or down time caused by government misuse does not count as an occurrence). Examples of down time include: False alarms on a fire or security system, a single toilet in a facility is not functional, the plumbing system for an entire building is not functional, electrical power is disrupted to a facility or utility
Official Government Business	Guidelines provided by DOD 4500.36R and MCO 11240.106
Original Equipment Manufacturer	The manufacturer of the complete production vehicle, both commercial or military, whether assembled from parts of its own manufacture or from parts of components furnished by other manufacturers or a combination of both.
Original Parts Manufacturer	A manufacturer of vehicle parts that are supplied directly to original equipment manufacturers for incorporation into the production of the vehicle and for resale as replacement parts.
Portable or Freestanding Equipment	Portable or freestanding equipment is equipment that is moveable and not affixed as an integral part of the real property facility.
Pre-Expended Bin Materials And Supplies	The Minor Materials And Supplies That Are Incidental To A Job, And For Which The Total Direct Cost Of Any One Material Line Item Shown On The Material Estimate Is $10.00 Or Less. Examples Of Pre-Expended Bin Materials And Supplies Include, But Are Not Limited To, Solder, Lead, Flux, Electrical Connectors, Electrical Tape, Fuses, Nails, Screws, Bolts, Nuts, Washers, Spacers, Masking Tape, Sand Paper, Solvent, Cleaners, Lubricants, Grease, Oil, Rags, Mops, Glue, Epoxy,
Proper/Properly	Proper and/or properly, as used throughout this PWS, means that which is maintained or performed in accordance with industry standards, or specifications within this PWS.
Rebuilt Components/Assemblies	Components, assemblies, or sub-assemblies of a unit of automotive, construction, and MHE equipment that have been disassembled and reconstructed using new replacement or manufactured parts and reassembled to produce a serviceable product whose service life expectancy is at least equal to the original component/assembly.
Repair	Restoration of a vehicle or equipment item to such condition that it may be effectively utilized for its designated purposes. Repair may be overhaul, reprocessing, or replacement of constituent parts or materials that have deteriorated by action of the elements or usage and have not been corrected through maintenance.
Replace	To Remove Damaged, Defective, Or Deteriorated Materials Or Parts And Install New Or Used Materials Or Parts As Approved.
Required	Demanded As Necessary Or Essential To The Satisfactory Operation Of The Equipment Or System.
Respond	Arrive at the site and begin work.

ATTACHMENT C.11-5
Definitions, Abbreviations and Acronyms

Response Time	The time it takes after initial notification of a work requirement to be physically on the premises at the work site with appropriate tools, equipment, and materials and ready to perform the required work.
Rework	A requirement for the SP to return to the location of a service call whereby the initial problem reported by the customer continues to exist.
Safety Hazard	Any condition or deficiency that would render a vehicle unsafe or could cause damage or harm to personnel, equipment, and property.
Service Call	A request for service by a customer.
Service Work	Services which are requested by the customer and which are not specifically identified as a requirement. Services may require more than one trade. Services may be subject to the Davis-Bacon Act or the Service Contract Act.
Serviceable	The condition of an item which allows for the proper performance for which it was originally designed or installed.
Solid Waste	Refuse And Other Discarded Solid Materials Resulting From Commercial, Industrial, Residential, And Community Activities. It Does Not Include Hazardous Wastes, Infectious/Medical Wastes, Solids Or Dissolved Materials In Domestic Sewage, Or Other Significant Pollutants In Water Resources Such As Silt, Dissolved Or Suspended Solids In Industrial Waste, Water Effluents, Dissolved Materials In Irrigation Return Flow, Or Other Common Water Pollutants.
Special Markings	Any vehicle marking that is of special significance to a particular user and is essential to identify its purpose.
Task Time Standards	The Number Of Craft Work Hours Required By All Of The Workers Of A Single Craft To Accomplish A Specific Task. Task Time
Transient Equipment	Garrison Mobile Equipment belonging to another Government activity visiting the station or operating in the vicinity of the station
Travel Time	Time Expended Between Shop And The Job Site; Waiting For Vehicle; Getting In And Out Of Vehicle; Loading And Carrying A Tool Box; Vehicle Travel; Unloading, Walking From Vehicle To Job Site; Opening And Closing Door; Walking Up And Down Stairs; Using Elevators; And Access To Secure Or Controlled
Utility	A Service Provided Such As Electricity, Natural Gas, Sewage, Water, Heating, Air Conditioning, 400hz Power, Compressed Air, Etc.
Vehicle	Vehicle means GME, WHE, MHE, and unnumbered equipment.
Warranty Repair	Repairs that are specifically covered by the manufacturer during the vehicle's warranty period.
Waste/Wastes	For the purpose of this PWS, the terms "waste" and "wastes" are defined as regulated substances (i.e., Hazardous materials; hazardous wastes; petroleum, oils, lubricants, and byproducts; batteries; fluorescent tubes; antifreeze and hydraulic fluids, etc.).

ATTACHMENT C.11-5
Definitions, Abbreviations and Acronyms

Weight Handling Equipment (WHE)	Equipment which is normally used for lifting, moving, and placing heavy material or equipment. This includes mobile or transportable truck mounted cranes. The term also includes captive cranes and hoists

ATTACHMENT C.11-5
Definitions, Abbreviations and Acronyms

Abbreviations and Acronyms	
AC	Air Conditioning
ADP	Automated Data Processing
ADPE	Automated Data Processing Equipment
AIS	Annual Inspection Summary
ANSI	American National Standards Institute
ASME	American Society of Mechanical Engineers
ASTM	American Society of Testing and Measurement
AUTODIN	Automatic Digital Network (a DoD teletype system)
BLDG	Building
BOS	Base Operations Services
BPA	Blanket Purchase Agreement
CA	Commercial Activities
CMC	Commandant of the Marine Corps
CDO	Command Duty Officer
CFC	Chlorofluorocarbons
CFE	Contractor/SP Furnished Equipment
CFR	Code of Federal Regulations
CM&R	Corrective Maintenance and Repair
CNO	Chief of Naval Operations
CNG	Compressed Natural Gas
CO	Commanding Officer
CO2	Carbon Dioxide
COB	Close of Business
COR	Contracting Officer's Representative
DD Form	Department of Defense Form
DLA	Defense Logistics Agency
DoD	Department of Defense
DoN	Department of Navy
DoT	Department of Transportation
DPW	Department of Public Works
DPAS	DPAS accounting system
DRMO	Defense Reutilization and Marketing Office
DSN	Defense Switched Network (Formerly AUTOVON)
DTID	Disposal Turn In Document
DV	Distinguished Visitor
E/C	Equipment/Component
EC	Equipment Code (formerly ECC)
EIR	Equipment Identification Record
EM	Equipment Maintenance
EO	Equipment Operation
EPA	Environmental Protection Agency
ERO	Equipment Repair Order
ES	Emergency Service
FAFE	Fleet Average Fuel Economy
FAR	Federal Acquisition Regulation
FEMS	FEMS Maintenance database system
FFP	Firm Fixed Price
FPM	Federal Property Management Regulation
FSN	Federal Stock Number

ATTACHMENT C.11-5
Definitions, Abbreviations and Acronyms

FY	Fiscal Year
GCW	Gross Combination Weight
GFE	Government Furnished Equipment
GFF	Government Furnished Facilities
GIS	Global Information System
GME	Garrison Mobile Equipment
GOCO	Government Owned, Contractor/SP Operated
GPM	Gallon Per Minute
GSA	Government Services Administration
GVW	Gross Vehicle Weight
GVWR	Gross Vehicle Weight Rating
HAZ	Hazardous (Material or Waste)
HAZMAT	Hazardous Materials
HM	Hazardous Material
HMMS	Hazardous Material Management System
HS	Hazardous Storage
HW	Hazardous Waste
HWSF	Hazardous Waste Storage Facility
IAW	In Accordance With
ID	Identification
IQ	Indefinite Quantity
ISO	International Standardization Organization
KO	Contracting Officer
LTI	Limited Technical Inspection
MCLB	Marine Corps Logistics Base
MCLBB	Marine Corps Logistics Base, Barstow
MAINT	Maintenance
MEO	Most Efficient Organization
MHE	Material Handling Equipment
MSDS	Material Safety Data Sheets
MUSE	Mobile Utility Support Equipment
MWO	Modification Work Orders
MWR	Morale, Welfare, and Recreation
NAVFAC	Naval Facilities Engineering Command
NDR	National Driver Register
NEC	National Electrical Code
NEPA	National Environmental Policy Act
NFPA	National Fire Protection Association
NFTS	Naval Facilities Transportation System
NIIN	National Item Identification Number
NIOSH	National Institute for Occupational Safety and Health
NON-HAZ	Non-Hazardous (Material or Waste)
NRC	National Response Center
O&M	Operation and Maintenance
ODCL	Operators Daily Checklist
OMB	Office of Management and Budget
OPM	Office of Personnel Management
OSH	Occupational Safety and Health
OSHA	Occupational Safety and Health Administration
PEP	Primary Equipment Package

ATTACHMENT C.11-5
Definitions, Abbreviations and Acronyms

PIV	Position Indicator Valves
PM	Preventive Maintenance
PMI	Preventive Maintenance Inspection
PMIS	Preventive Maintenance Inspection Service
POA	Plan of Action
PPE	Personal Protective Equipment
PRS	Performance Requirements Summary
PSD	Personnel Support Detachment
PSI	Pounds per Square Inch
PSM	Process Safety Management
PWD	Public Works Department
PWS	Performance Work Statement
PWT	Public Works Transportation
QA	Quality Assurance
QAE	Quality Assurance Evaluator
QASP	Quality Assurance Plan
QC	Quality Control
RCRA	Resource Conservation and Recovery Act
REC	Regional Environmental Coordinator
RFP	Request for Proposal
RPIE	Real Property Installed Equipment
RPP	Respiratory Protection Program
SCA	Service Contract Act
SECNAV	Secretary of the Navy
SERC	State Emergency Response Commission
SJO	Standing Job Order
SM	Scheduled Maintenance
SOP	Standard Operating Procedures,
SP	Service Provider
SPCC	Spill Prevention Control and Countermeasures
SRO	Shop Repair Order
TAD	Temporary Active Duty
TM	Technical Manuals
TMDE	Test, Measurement, and Diagnostic Equipment
U/I	Unit of Issue
UIC	Unit Identification Code
USN	Universal Serial Number
VTE	Vertical Transportation Equipment
WHE	Weight Handling Equipment

ATTACHMENT C.11-6. PERFORMANCE REQUIREMENTS SUMMARY

C.11-6 PERFORMANCE REQUIREMENTS SUMMARY

PWS Paragraph	Contract Requirement	Work Requirement	Standard	AQL
Public Works - Facilities Maintenance				
C.11.2	**General Information and Requirements**		20%	
C.11.2.8	Required Reporting	Maintain management and maintenance records and prepare and submit all management reports and operating procedures specified in /attachment C.11-3.	quality	95%
			timeliness	95%
C.11.2.9	Directives, Publications and Forms	Responsible for identifying and performing the services in accordance with the appropriate publication, directive or instruction.	quality	98%
			timeliness	95%
C.11.2.10	Certifications, Licenses and Permits	Obtain all licenses, appointments and permits required by applicable Navy, DOD, Federal, State and local laws for the accomplishment of the work within this contract.	quality	98%
			timeliness	95%
C.11.4	**Personnel Requirements**		quality	95%
			timeliness	95%
C.11.5	**Work Control**		quality	
			timeliness	
C.11.5.1.1	Work Coverage	Receive and respond to requests 24 hrs per day, seven (7) days per week for service, assistance or any other problem relating to equipment, systems and services identified herein.	quality	98%
			timeliness	98%
C.11.5.1.1.2	Emergency Work	Respond to emergency requests for service within 15 minutes during normal working hours, two (2) hours outside of normal working hours.	quality	98%
			timeliness	98%
C.11.5.1.1.3	Non-Emergency work	Respond to non-emergency requests for service within 24 hours as specified.	quality	98%
			timeliness	98%
C.11.5.1.1.4	Notifications	Provide notifications and request approvals as specified.	quality	98%
			timeliness	98%
C.11.5.1.2	Records	Maintain an accurate and complete record of all requests received.	quality	98%
			timeliness	98%
C.11.5.2	**Performance and Materials Standards**			

C.11-6 PERFORMANCE REQUIREMENTS SUMMARY

PWS Paragraph	Contract Requirement	Work Requirement	Standard	AQL
C.11.5.2.1	General Requirements	All public works services shall be accomplished in accordance with approved and accepted standards. Performance shall meet the general requirements specified.	quality	95%
			timeliness	90%
C.11.5.2.2	Performance	When the Service Provider completes work on a facility, system or piece of equipment, that facility, system or equipment shall be free of missing components or defects.	quality	95%
			timeliness	90%
C.11.5.2.3	Cleanup	Debris, excess materials and parts shall be cleaned up and removed at the completion of the job and/or end of each day of work.	quality	95%
			timeliness	90%
C.11.5.2.4	Equipment Under Manufacturer's or Installer's Warranty	Equipment, components, and parts, other than that installed under this contract, shall not be removed or replaced or deficiencies corrected while still under warranty of the manufacturer or installer.	quality	95%
			timeliness	90%
C.11.5.3	**System Outages**			
C.11.5.3.2.1	Planned Outages	Follow the procedures for planned outages as specified in the PWS.	quality	95%
			timeliness	95%
C.11.5.3.2.2	Emergency Outages	Follow the procedures for emergency outages as specified in the PWS.	quality	95%
			timeliness	95%
C.11.5.4	**Occupational Safety and Health**			
C.11.5.4.1	General Requirements	The Service Provider shall perform all work in compliance with NSWCCD, Federal and State safety and health requirements.	quality	98%
			timeliness	95%
C.11.5.4.2	Compliance	Comply with all OSHA Regulations and Standards for the control of hazardous energy and as specified herein.	quality	98%
			timeliness	95%
C.11.5.4.3	Two-Person Safety Rule	Follow the two-person safety rule as specified.	quality	98%
			timeliness	95%
C.11.5.4.4	NAVOSH Deficiencies	Correct NAVOSH deficiencies as requested pursuant to PWS.	quality	98%
			timeliness	95%
C.11.5.5	**Access to Work Areas**			

C.11-6 PERFORMANCE REQUIREMENTS SUMMARY

PWS Paragraph	Contract Requirement	Work Requirement	Standard	AQL
C.11.5.5.1	Customer Notification	Provide advance notice to primary customer prior to starting work.	quality	90%
			timeliness	90%
C.11.5.5.2	Notification of Work Delays	Provide the customer with the reason for delay.	quality	90%
			timeliness	90%
C.11.5.5.3	Restricted Access Areas	Specific locations on the site are restricted access areas.	quality	90%
			timeliness	90%
C.11.5.6	**Underground Utilities**			
C.11.5.6.2	Locating Underground Utilities	Follow prescribed procedures for locating underground utilities.		98%
				90%
C.11.5.6.3	Updates to Utility Drawings	Notify the Government of revision to utility maps.	quality	98%
			timeliness	90%
C.11.6.1	**Preventive Maintenance Inspection Program**		40%	
C.11.6.1.2	General Requirements	The Service Provider shall develop, implement and execute/perform a program for performing PMI for the designated systems to meet the operating standards specified herein.	quality	90%
			timeliness	90%
C.11.6.1.2.1	Program Management	Ensure PMI work is given the priority and labor required to accomplish all scheduled work to maintain operating performance standards specified herein.	quality	90%
			timeliness	95%
C.11.6.1.2.2	Inspection Standards	Perform inspections pursuant to the requirements specified herein.	quality	80%
			timeliness	90%
C.11.6.1.2.3	Housekeeping	Maintain good housekeeping methods in mechanical rooms and equipment areas in conjunction with PMI work.	quality	80%
			timeliness	80%
C.11.6.1.2.4	Incidental Repair Limitation	Accomplish all incidental repair or replacement of defective equipment or system within the service call limit.	quality	80%
			timeliness	80%
C.11.6.1.2.5	Documentation	Within 10 working days, submit the required documentation for PMI	quality	98%

C.11-6 PERFORMANCE REQUIREMENTS SUMMARY

PWS Paragraph	Contract Requirement	Work Requirement	Standard	AQL
C.11.6.1.2.3	Documentation	Within 10 working days, submit the required documentation for PMI.	timeliness	95%
C.11.6.2	**Service Calls**		40%	
C.11.6.2.1	Service Call Definition			90%
				95%
C.11.6.2.3	Service Call Reception			98%
				98%
C.11.6.3	**Response to Service Calls**			
C.11.6.3.1	General Responsiveness	The Service Provider shall have adequate procedures for receiving and responding to service calls 24 hours per day.	quality	98%
			timeliness	98%
C.11.6.3.2	Emergency Service Work	The Service Provider shall respond to emergency work requirements as specified in the PWS.	quality	98%
			timeliness	98%
C.11.6.3.3	Routine Service Work	All routine service shall be completed within five (5) working days	quality	98%
			timeliness	98%
C.11.6.5	Completed Calls	Service Provider shall completely update the automated work control system within one working day of completion.	quality	98%
			timeliness	98%
C.11.6.6	Materials and Equipment	Maintain sufficient off-the-shelf materials and equipment on hand to support work requirements.	quality	98%
			timeliness	98%
C.11.6.7	**Contingency Operations**	The Service Provider shall respond to contingency operations pursuant to Section C.1, Paragraph C.1.3.4.	quality	98%
			timeliness	98%
C.11.6.7.1	Preseason Hurricane and Destructive Weather Drill	The Service Provider shall support the NSWCCD Headquarters in subject drill as specified.	quality	98%
			timeliness	98%
C.12.1	**Heating, Ventilation and Air Conditioning and Refrigeration (HVAC&R)**			
C.12.1.2.1.1	Requirements	Operate and maintain air conditioning cooling and refrigeration	quality	98%

C.11-6 PERFORMANCE REQUIREMENTS SUMMARY

PWS Paragraph	Contract Requirement	Work Requirement	Standard	AQL
C.12.1.2.1.1	Requirements	equipment at the standards specified in C.12.1.2.3 of the PWS.	timeliness	98%
C.12.1.2.1.2	Requirements	Accomplish all Preventive Maintenance (PMI) to meet the operating standards specified in C.12.1.2.3 of the PWS.	quality	98%
			timeliness	98%
C.12.1.2.1.3	Requirements	Maintain treated water in accordance with MO-225.	quality	98%
			timeliness	98%
C.12.1.2.3	Operation and Maintenance Standards	Maintain equipment to the operating and maintenance standards specified.	quality	98%
			timeliness	98%
C.12.1.3	Seasonal Operation			
C.12.1.3.1	Winter to Summer Turnover	Ensure comfort of customers during the heating season of October 15 to April 15.	quality	98%
			timeliness	98%
C.12.1.3.2	Summer to Winter Turnover	Ensure comfort of customers during the cooling season of May 15 to October 15.	quality	98%
			timeliness	98%
C.12.2	**Building Electrical Systems**			
C.12.2.1	Requirements	Operate and maintain the electrical distribution and equipment therein.	quality	98%
			timeliness	98%
C.12.2.2.1	Requirements	Accomplish all Preventive Maintenance Inspections (PMI).	quality	98%
			timeliness	98%
C.12.2.4.1.3	Requirements	Operate and maintain the standby motor generator sets.	quality	98%
			timeliness	98%
C.12.2.4.1.4	Requirements	Inspect and manually re-start any system/equipment.	quality	98%
			timeliness	98%
C.12.2.6	Operational and Maintenance Standards			
C.12.2.6.1	General	Each system shall provide full and continuous service 24 hours per	quality	98%

C.11-6 PERFORMANCE REQUIREMENTS SUMMARY

PWS Paragraph	Contract Requirement	Work Requirement	Standard	AQL
C.12.2.6.1	General	day and shall be maintained IAW prescribed manuals.	timeliness	98%
C.12.2.6.1.4	Building Exterior Lighting	Shall be operational 24 hours per day seven (7) days a week and shall be repaired within 24 hours.	quality	98%
			timeliness	98%
C.12.2.6.1.6	Electrical Equipment Rooms Maintenance	Shall be clean, free of dust, oil, grease, old parts and water on the floor.	quality	98%
			timeliness	98%
C.12.3	**Sanitary Sewage System**			
C.12.3.1.1.1	Requirements	Operate and maintain the sanitary sewage collection lines and pumping system.	quality	98%
			timeliness	98%
C.12.3.1.1.3	Requirements	Test pumps monthly at each sewage lift station.	quality	98%
			timeliness	98%
C.12.3.1.1.4	Requirements	Clean grease traps monthly in Building 103.	quality	98%
			timeliness	98%
C.12.3.1.4	Operation and Maintenance Standards	Sewage collection lines, pumping system and all components therein shall be fully operational and shall provide/perform the service for which it was designed and installed 24 hours per day, seven (7) days a week and as specified herein.	quality	98%
			timeliness	98%
C.12.4	**Storage Tanks**			
C.12.4.1.1.1	Requirements	Maintain Storage Tank systems in accordance with the Operation and Maintenance Standards specified herein.	quality	98%
			timeliness	98%
C.12.4.1.1.2	Requirements	Inspect above ground storage tank systems weekly for signs of leakage.	quality	98%
			timeliness	98%
C.12.4.1.3	Operation and Maintenance Standards	Each liquid fuel storage tank systems shall be fully operational and provide/perform the services for which it is designed.	quality	98%
			timeliness	98%
C.12.5	**Air Compressor Equipment and Distribution Systems**			

C.11-6 PERFORMANCE REQUIREMENTS SUMMARY

PWS Paragraph	Contract Requirement	Work Requirement	Standard	AQL
C.12.5.1.1	Requirements	Operate and maintain the air compressor equipment and distribution systems in accordance with manufacturers' recommended procedures and the Operation and Maintenance Standards specified herein.	quality	98%
			timeliness	98%
C.12.5.1.4	Operation and Maintenance Standards	Maintain equipment to the operating and maintenance standards specified.	quality	98%
			timeliness	98%
C.12.6	**Ventilation and Exhaust Systems**			
C.12.6.1.1.1	Requirement	Operate and maintain ventilation equipment in accordance with the Operation and Maintenance Standards.	quality	98%
			timeliness	98%
C.12.6.1.1.2	Requirement	Clean hoods, fans and other grease removal devices prior to surfaces becoming heavily contaminated with grease.	quality	98%
			timeliness	98%
C.12.6.1.1.3	Requirement	During the month of November, the Service Provider shall ensure all ventilation openings are closed for the winter.	quality	98%
			timeliness	98%
C.12.6.1.1.4	Requirement	The Service Provider shall perform an inspection of all roofs and perform all repairs as required.	quality	98%
			timeliness	98%
C.12.6.1.4	Operation and Maintenance Standards	Maintain operational and maintenance standards specified.	quality	98%
			timeliness	98%
C.12.7	**Perimeter Fence**			
C.12.7.2.1	Requirements	Process as an emergency service call requirement, any call pertaining to cuts or damage to the perimeter fencing. Accomplish temporary/emergency repairs to damaged perimeter fencing to maintain perimeter security.	quality	98%
			timeliness	98%
C.12.7.2.4	Operation and Maintenance Standards	Respond within one hour of notification and conduct repairs to secure the fence.	quality	98%
			timeliness	98%
C.12.8	**Potable Water Supply Distribution System**			
C.12.8.1.1.1	Requirements	Operate and maintain the potable water supply and distribution system.	quality	98%
			timeliness	98%

C.11-6 PERFORMANCE REQUIREMENTS SUMMARY

PWS Paragraph	Contract Requirement	Work Requirement	Standard	AQL
C.12.8.1.1.3	Requirements	Perform potable water distribution system services relating to work being performed by other Service Provider's or Government agencies.	quality	98%
			timeliness	98%
C.12.8.1.1.4	Requirements	Perform testing of backflow prevention devices annually in accordance with manufacturer's specifications.	quality	98%
			timeliness	98%
C.12.8.1.1.5	Requirements	Apply a disinfectant in accordance with NAC 445 and NAVMED P-5010.	quality	98%
			timeliness	98%
C.12.8.1.4	Operation and Maintenance Standards	Maintain operational and maintenance standards specified 24 hours per day, seven (7) days per week.	quality	98%
			timeliness	98%
C.12.9	**Ceremonial Support**			
C.12.9.1.1.1	Requirements	Provide ceremonial support.	quality	98%
			timeliness	98%
C.12.9.1.1.2	Requirements	Provide major meeting support.	quality	98%
			timeliness	98%
C.12.9.1.4	Operation and Maintenance Standards	Maintain the operation and maintenance standards specified.	quality	98%
			timeliness	98%
C.12.10	**Explosives Grounding and Lightning Protection Systems**			
C.12.10.1.1.1	Requirements	Maintain the explosive grounding and lightning protection system.	quality	98%
			timeliness	98%
C.12.10.1.1.2	Requirements	Visually inspect the explosive grounding and lightning protection system.	quality	98%
			timeliness	98%
C.12.10.1.1.3	Requirements	Perform the grounding test and visual inspection of the explosive grounding and lightning protection system.	quality	98%
			timeliness	98%
C.12.10.1.1.4	Requirements	Perform monthly ground tests for twelve consecutive months on newly established test points to establish initial baseline.	quality	98%
			timeliness	98%

C.11-6 PERFORMANCE REQUIREMENTS SUMMARY

PWS Paragraph	Contract Requirement	Work Requirement	Standard	AQL
C.12.10.1.1.5	Requirements	Maintain a record of each inspection performed and submit to the DGR.	quality	98%
			timeliness	98%
C.12.10.1.1.6	Requirements	Correct minor problems as encountered during the inspection process.	quality	98%
			timeliness	98%
C.12.10.1.4	Operation and Maintenance Standards	The explosives grounding and lightning protection system shall be fully operational and provide the services for which it is designed and installed, 24 hours per day, seven (7) days per week.	quality	98%
			timeliness	98%
C.12.11	**Facilities and Structures**			
C.12.11.1.1	Requirements	Operate, maintain and perform preventive maintenance pursuant to paragraph C.11.6.2 on facilities, structures and equipment installed therein.	quality	98%
			timeliness	98%
C.12.11.1.4	Operations and Maintenance Standards			
C.12.11.1.4.1	Electrical Distribution System	The electrical distribution system shall be fully operational and perform/provide the service for which it is designed.	quality	98%
			timeliness	98%
C.12.11.1.4.2	Potable Water Systems and Sewage Collection Systems	Potable water supply and sewage collection systems shall be fully operational and shall perform/provide the service for which they are designed.	quality	98%
			timeliness	98%
C.12.11.1.4.3	Floors and Floor Coverings	Floor and floor coverings shall be free of chips, gouges, breaks, holes, rips, loose or warped areas, stains, missing and/or damaged portions/pieces.	quality	98%
			timeliness	98%
C.12.11.1.4.4	Walls and Wall Coverings.	Walls and wall coverings shall be free of holes, chips, gouges, cracks, rips, loose or warped areas.	quality	98%
			timeliness	98%
C.12.11.1.4.5	Ceilings	Ceilings shall be free of holes, sags, chips, gouges, cracks, rips, loose or warped areas, stains.	quality	98%
			timeliness	98%
C.12.11.1.4.6	Doors	Doors and door components shall be free of holes, chips, gouges, cracks, rips, loose or warped areas, stains, unfinished areas.	quality	98%
			timeliness	98%
C.12.11.1.4.7	Windows	Windows and window components shall be free of cracked or broken panes, missing hardware, or components.	quality	98%
			timeliness	98%

C.11-6 PERFORMANCE REQUIREMENTS SUMMARY

PWS Paragraph	Contract Requirement	Work Requirement	Standard	AQL
C.12.11.1.4.8	Stairs	Stairs and stair repairable accessories shall be replaced with items of equal or better quality.	quality	98%
			timeliness	98%
C.12.11.1.4.9	Bathroom Fixtures and Accessories	Bathroom fixtures accessories shall be free of holes, chips, gouges, cracks, breaks, rips, loose areas, warped areas, stains, unfinished areas.	quality	98%
			timeliness	98%
C.12.11.1.4.10	Kitchen/Kitchenette Fixtures and Accessories	Kitchen/Kitchenette fixtures and accessories shall be free of holes, chips, gouges, cracks, breaks, rips, loose areas, warped areas, stains, unfinished areas, and/or missing components.	quality	98%
			timeliness	98%
C.12.11.1.4.11	Lighting	All lighting shall be fully operational and perform/provide the service for which it was designed.	quality	98%
			timeliness	98%
C.12.11.1.4.12	Switchplates and Coverplates	Switchplates and coverplates shall be free of cracks, breaks, and missing pieces.	quality	98%
			timeliness	98%
C.12.11.1.4.13	Fire Extinguisher Holders	Fire extinguisher holders shall be securely attached to the wall.	quality	98%
			timeliness	98%
C.12.11.1.4.14	Roofing	Roofing and roofing components shall be free of leaks and shall be properly attached to facility as designed.	quality	98%
			timeliness	98%
C.12.11.2	Mechanical Rooms Maintenance			
C.12.11.2.1	Requirements	The Service Provider shall maintain all mechanical rooms as specified.	quality	98%
			timeliness	98%
C.12.11.2.4	Operation and Maintenance Standards	Mechanical rooms shall be clean, free of dust, oil, grease, debris, old parts, dirt and water on the floors.	quality	98%
			timeliness	98%
C.12.12	**Building Signs**			
C.12.12.1.1.1	Requirements	Maintain signs and the holding structures, i.e., poles, posts, brackets.	quality	98%
			timeliness	98%
C.12.12.1.1.2	Requirements	Replace damaged or deteriorated sign posts.	quality	98%
			timeliness	98%

C.11-6 PERFORMANCE REQUIREMENTS SUMMARY

PWS Paragraph	Contract Requirement	Work Requirement	Standard	AQL
C.12.12.1.4	Operation and Maintenance Standards	Signs shall be maintained, fabricated, and installed as specified.	quality	98%
			timeliness	98%

ATTACHMENT C.11-7. PROJECTED SERVICE CALL WORK

ATTACHMENT C.11-7
TABLE 1
HISTORICAL SERVICE CALL WORK
IN HOUSE PERFORMANCE

	SERVICE CALLS FY 2000			SERVICE CALLS FY 2001		
TRADE	In House Service Calls(1)	Bankcard Service Calls(2)	Total Service Calls	In House Service Calls(3)	Bankcard Service Calls(2)	Total Service Calls
AIR CONDITIONING	1016	27	1043	891	49	940
CARPENTER	141	43	184	222	36	258
ELECTRICIAN	633	33	666	776	64	840
EQUIPMENT OPER.	34	1	35	10	2	12
MACHINIST	21	4	25	14	0	14
PAINTER	72	6	78	67	12	79
PIPEFITTER	612	26	638	540	21	561
SHEET METAL	187	12	199	235	3	238
MISC STRUCTURAL	0	82	82	0	101	101
ALL TRADES	2716	234	2950	2755	288	3043

Data Sources:

(1) PW Service Calls FY01 Final Analysis 28 Oct 02

(2) PW Bankcard Data FY00-01 Summary 29 Oct 02

(3) PW Service Calls FY01 Final Analysis 28 Oct 02

NAVAL SURFACE WARFARE CENTER
CARDEROCK DIVISION
WEST BETHESDA, MD AND PHILADELPHIA, PA
PERFORMANCE WORK STATEMENT
FOR

SECTION 12
PUBLIC WORKS
FACILITIES MAINTENANCE

SECTION C.12 SPECIFIC TASKS - FIRM FIXED PRICE REQUIREMENTS

Pursuant to Section 11.6, the Service Provider shall perform all Preventive Maintenance and Service Call work as specified herein under the firm fixed price portion of this contract. The Service Provider shall ensure that the structures, systems and equipment identified herein are maintained to the operating standards specified employing an approved Preventive Maintenance Program and quality Service Call work.

C.12.1 HEATING, VENTILATION AND AIR CONDITIONING AND REFRIGERATION (HVAC&R)

C.12.1.1 GENERAL INTENTION AND DESCRIPTION

The Service Provider shall provide all labor, supervision, materials, tools, equipment, transportation, management, administration and quality control necessary to provide all requirements in this specification. The Service Provider shall manage, inspect and maintain the heating, ventilation, and air conditioning (HVAC) systems and refrigeration systems at the NSWCCD Headquarters Site. The heating, ventilation, air conditioning and refrigeration systems include, but are not limited to:

(1) air conditioning package units,

(2) air conditioning split systems,

(3) chiller plants,

(4) air compressors,

(5) exhaust fans,

(6) ventilation fans,

(7) air handling units,

(8) hot air furnaces,

(9) oil and gas fired boilers,

(10) humidifiers

(11) electric radiant heaters,

(12) dehumidifiers,

(13) steam coil units,

(14) walk-in boxes,

(15) radiators,

(16) dry coolers,

(17) associated auxiliary components to Items (1) through (16).

C.12.1.2 AIR CONDITIONING/COOLING SERVICES

C.12.1.2.1 Requirements

The Service Provider shall:

C.12.1.2.1.1 Operate and maintain air conditioning, cooling and refrigeration equipment in accordance with the Operation and Maintenance Standards specified herein.

C.12.1.2.1.2 Accomplish all Preventive Maintenance Inspection (PMI) work within the firm fixed price portion of this contract. The list of equipment that requires PMI is listed in Attachment C.12-8. HVAC & R Inventory.

C.12.1.2.1.3 Maintain treated water in accordance with MO-225. Chemicals listed in MO-225 or other commercial equal (with annual approval by the Government Representative) shall be used to prevent scaling, corrosion, biological growth on the waterside surfaces of evaporative coolers and towers. Monthly, prepare and submit the water sample report.

C.12.1.2.2 Applicable Definitions

C.12.1.2.2.1 Air Handler: An air handler is that section of a heating, ventilating, and cooling (HVAC) system which moves air using fans or blowers. Air Handlers may be part of evaporative, chilled water or a direct expansion cooling system. These devices typically have electric motors more than ½ horsepower in size.

C.12.1.2.2.2 Closed Loop: A system of piping which re-circulates with minimal discharge or make-up.

C.12.1.2.2.3 Fan Coil: Fan coils are heating or cooling coils with fans or blowers attached. Fan coils typically have electric motors of ½ horsepower or less.

C.12.1.2.2.4 Heat Exchanger Loop: A heating or cooling system consisting of a heat exchanger fed by steam or high temperature water which produces steam or hot water for use in heating, absorption cooling or domestic hot water.

C.12.1.2.2.5 Humidifier: A device which adds moisture to the air.

C.12.1.2.2.6 Pump: A device which circulates or moves water or other fluids.

C.12.1.2.2.7 Variable Air Volume (VAV) Box: Variable air volume boxes are devices which automatically control space temperature by varying the amount of air delivered to the space.

C.12.1.2.2.8 Water Purifier: A device which cleans, purifies, or disinfects water.

C.12.1.2.2.9 Chiller: A device which cools fluids to below their ambient temperatures by mechanical refrigeration or absorption methods.

C.12.1.2.2.10 Dehydrator: A device which reduces the amount of moisture in air by means of refrigeration.

C.12.1.2.2.11 Heat Pump: Any device which can either heat or cool by using mechanical refrigeration.

C.12.1.2.2.12 Ice Maker: A device which manufacturers ice using refrigerating machinery and supplied fresh water.

C.12.1.2.2.13 Reach-in: A device which allows a person to add or remove contents by reaching in through a door or cover.

C.12.1.2.2.14 Refrigerated Air: Air which has been cooled through direct expansion of refrigerant or from chilled water.

C.12.1.2.2.15 Walk-in: A device which allows a person to add or remove contents by walking into the refrigerated spaces.

C.12.1.2.3 Operation and Maintenance Standards

C.12.1.2.3.1 General Standards

C.12.1.2.3.1.1 All equipment is to be clean and free of oil, water and other fluid leaks.

C.12.1.2.3.1.2 All refrigerants shall be properly documented and handled as specified in the referenced material in Attachment C.11-4. Publications, Directives and Instructions.

C.12.1.2.3.1.3 All equipment shall be maintained to perform as originally designed or manufactured. In addition, equipment shall be free of noise and vibrations not inherent to the design of the equipment.

C.12.1.2.3.1.4 All equipment shall be expeditiously repaired to minimize downtime, product loss and customer inconvenience. Incident reports will be submitted for any equipment down more than four (4) hours.

C.12.1.2.3.1.5 Areas around equipment shall be maintained and kept clean with any damaged areas repaired. Equipment rooms shall be free of rubbish, rags, combustibles, old parts or dirt.

C.12.1.2.3.2 Specific Equipment

C.12.1.2.3.2.1 Air conditioning /cooling equipment, except those areas which have evaporative cooling equipment and cooling towers, shall be operational throughout the year.

C.12.1.2.3.2.2 Areas cooled by evaporative cooling equipment and cooling towers shall be operational as needed depending on weather cycle. Customers must be kept comfortable. Dust, debris and residue blown into the facility during start up

shall be removed/cleaned up by the Service Provider. The Service Provider shall also check the systems at all buildings to ensure proper valve alignment and system integrity for the change over to the summer cooling season. The Service Provider shall ensure expansion tanks are maintaining proper air cushion and water makeup valves are feeding at proper pressure.

C.12.1.2.3.2.3 Air conditioning/cooling equipment shall provide temperatures in accordance with occupant requirements in those spaces where temperature control is available. Customers must be kept comfortable. Any discrepancies will be handled by customer's requests and or a Maintenance Control representative. Service Provider will resolve all discrepancies arising from Customer / Maintenance Control Manager meetings.

C.12.1.2.3.2.4 Each air conditioning/cooling unit shall be maintained in a safe, operable, efficient and economical condition in accordance with manufacturer's recommended procedures and specifications.

C.12.1.2.3.2.5 Water treatment chemicals shall be suitable for discharge directly into the natural drainage system without having a detrimental impact upon the receiving stream's quality or violating any applicable Federal, State, or local abatement regulation or law. Discharge temperature shall not exceed 90 degrees Fahrenheit.

C.12.1.2.3.2.6 Each unit/system, to include equipment and components therein, shall be fully operational and shall perform the service for which it was designed or installed. Each unit/system shall provide full and continuous service 24 hours per day, seven (7) days a week, or as otherwise specified. In addition:

? Piping systems shall be clean, free of obstructions, deposits, leaks, and shall be properly mounted. Access doors and ductwork shall be free of vibrations, noises and air leaks. Ductwork and pipe insulation shall be properly maintained and free of tears, rips and loose or missing sections. Water supply lines and valves shall be free of drips, leaks and deposits. Hoods and ducts shall be free of grease buildup. Drains shall be free of obstructions and dirt. Fill and drain lines shall be quiet, leak free and shall operate as designed.

? Belts shall be free of frays, cracks, breaks, noises and vibrations. Filters shall be maintained to prevent degradation of system performance and shall be of the proper size for the filter rack. Replacement air filters shall be high efficiency, pleated type, having an ASHRAE dust spot rating of 30 to 60 percent minimums. Bearings shall be properly lubricated, free running, quiet and free of vibration and excess lubricants. Pulleys shall be free of vibration, slippage and any grooves deeper than 1/32". Blower wheels and motor fans shall be free of lint, dirt, vibration and excess lubricant. Bearing bolts shall be tight, properly lock-washered and adjusted. Mounting brackets shall be tight and properly secured. Zone valves shall be fully functional and free of mineral deposits and leaks. Floats and float valves shall be fully functional and maintain proper water level. Water treatment probes shall be clean of mineral deposits and debris and shall register properly. Orifices shall be free of obstructions and

deposits and shall flow the proper amount of water for efficient operation. Motor starters shall be free of dirt and debris, pitted contacts, noisy coils, chattering linkages and inoperative indicator lights. Pillow blocks shall be properly lubricated and clean. Automatic dump valves shall be tight and functioning. Baffles shall be free of cracks, breaks and vibrations. Strainers and screens shall be clean, free running, proper mesh for application and shall allow water to flow properly.

? Drive shafts shall be clean and free of mineral buildup, rust and excess lubricant. Pumps shall be free of excess oil and/or lubricants and free of noise and vibration. Nuts, bolts screws, and other securing devices shall be tight and free of vibrations and loose parts. Motor mounts and vibration pads shall be firm and properly tightened. Rubber parts shall be firm and properly tightened. Motor assemblies shall be quiet and properly lubricated. Motors shall be free of dirt, lint and excess lubricant.

? Towers and coolers shall be free of oil leaks, water leaks, overflows, drips, deposits and mineral buildup. Equipment enclosure shall be free of lint, dirt, water, insects and lubricants. Unit exterior shall be free of rust, mineral deposits, peeling paint, and unpainted areas. Inside of unit shall be free of deposits, rust and algae. Drip pans shall be clean and free of rust and corrosion. Fan coil cabinets shall be free of deposits, grease, rust and corrosion. Tanks and pans shall be free of dirt sediment, leaks and mineral deposits. Coil surfaces shall be free of mineral deposits and rust.

? Motor running amps shall be within tolerance for type of equipment being maintained. Glycol shall be maintained to prevent freezing of units. Glycol solutions shall be maintained at 30 percent glycol to 70 percent water. Oil shall be maintained at the level recommended by the manufacturer. Oil and lubricants shall be in accordance with manufacturers' specifications. Timers shall be properly set to prevent accumulation of deposits and mineral buildups. Bleed rates shall be maintained to keep dissolved solids at proper levels. Water shall be properly treated in accordance with MO-225 to prevent corrosion and keep dissolved solids in suspension.

? Switches shall operate properly and be able to cycle through all phases of operation. Electrical connections shall be tight and clean. Electrical disconnects shall be free of loose connections, burned wires, and discolored fuses. Thermostats shall be properly attached to wall with no missing covers or guards.

C.12.1.2.3.2.7 Ice Makers. Ice makers shall make ice continuously and of the cube size as designed. Icemakers shall be free of leaks and drips.

C.12.1.2.3.2.8 Refrigerators. Refrigerators shall be adjusted to temperatures required by tenant/occupant while preventing the freezing of contents.

C.12.1.2.3.2.9 Freezers. Freezers shall be adjusted to temperatures required by tenant/occupant while preventing thawing of contents. Freezers shall be further operated and maintained to prevent freezing of drain lines. Evaporators shall not have more than ten (10) percent of coil faces iced up at any given time.

C.12.1.2.3.2.10 Chillers. Chillers shall be adjusted to furnish temperatures cold enough to fill the requirements of the equipment they serve at all times when cooling is required.

C.12.1.2.3.2.11 Air Dehydrators. Air dehydrators shall deliver dehydrated air as required by the devices they serve at all times.

C.12.1.2.3.2.12 Bottleless Water Coolers. Bottleless water coolers are under separate contract for normal maintenance and repairs. The service provider may be tasked to respond to emergency conditions such as leaking water supply piping only to the extent that would correct the emergency situation. The contractor will then perform non-emergency repairs as needed. Bottleless water coolers are listed in Attachment C.12-9. Bottleless Water Cooler Inventory.

C.12.1.3 BUILDING HEATING SYSTEMS AND EQUIPMENT

C.12.1.3.1 General Intention and Description

C.12.1.3.1.1 Requirements

The Service Provider shall:

C.12.1.3.1.1.1 Operate and maintain all building boilers, pressure vessels, steam generators, heat exchangers, furnaces and other heating equipment in accordance with the Operation and Maintenance Standards specified herein.

C.12.1.3.1.1.2 Operate and maintain the building steam traps in accordance with the Operation and Maintenance requirements specified herein.

C.12.1.3.1.1.3 Notify the Government representative 24 hours in advance of performing scheduled maintenance and repair. Notify the Government representative immediately when performing unscheduled maintenance or when a malfunction has occurred impacting proper operation of the system.

C.12.1.3.1.2 Applicable Definitions

C.12.1.3.1.2.1 Large Hot Water Heaters. Operate and maintain all large hot water heaters in accordance with the Operation and Maintenance Standards specified herein.

C.12.1.3.1.2.2 Furnaces. Operate and maintain all gas and oil furnaces in accordance with the Operation and Maintenance Standards specified herein.

C.12.1.3.1.2.3 Electric Heating Equipment. Operate and maintain all electric heating equipment in accordance with the Operation and Maintenance Standards specified herein.

C.12.1.3.1.2.4 High Temperature Hot Water. Water elevated to a point at which it would boil if not properly contained.

C.12.1.3.1.2.5 Pressure Vessel. A device containing fluids and/or gases under pressure and which is required to be inspected for health and safety reasons. Some examples are compressed air tanks, heat exchangers, hot water tanks and hydraulic accumulators.

C.12.1.3.1.2.6 Stationary Boiler. A boiler which is fixed to one location only and cannot be moved without great difficulty.

C.12.1.3.1.3 Description

Heating equipment includes all building boilers; forced air heaters to include electric and natural gas; radiant heaters to include electric and natural gas; heat exchangers to include tube bundles. In addition, heating equipment as used throughout the following paragraphs includes the electrical system starting at the source of the electrical power at the main circuit breaker leading to the equipment; plumbing starting at the source of any water supply through steam or hot water producing equipment, through distribution piping, steam traps, heat producing equipment, ending at blowdown/relief valves which discharge into drainage systems; and duct work starting at the return register and ending at the supply air register to include the outside air duct. Attachment C.12-17. Facilities and Structures provides a limited description of the type of heating system found in each building and Attachment C.12-8. HVAC & R Inventory provides a listing of specific systems and equipment.

C.12.1.3.1.4 Operations and Maintenance Standards

The following Operation and Maintenance Standards apply 24 hours per day, seven (7) days per week.

C.12.1.3.1.4.1 All Heating Equipment.

? All heating equipment/systems shall provide the highest level of reliability, efficiency and safety.

? All heating systems/equipment shall be operated and maintained in accordance with manufacturer's instructions, industry standards, national codes, and applicable regulations and directives. The more stringent requirement shall always take precedence.

? Heating equipment/systems shall provide a temperature dependent upon occupant requirements and to comply with current NSWC Energy Efficiency temperature setpoint standards.

C.12.1.3.1.4.2 High Temperature Hot Water (HTHW), Steam, and Hot Water (HW) Systems.

? Boiler air emissions shall not exceed local, State and Federal limitations. The Contractor shall be responsible for legal fees and financial penalties should air emissions exceed prescribed limitations. Boilers shall be maintained at maximum efficiency range by observing, controlling, and testing conditions of fire to carry highest possible CO_2 and the lowest possible stack temperature without smoke pollution to the atmosphere (use accurate combustion analyzer). Results of observations and tests shall be recorded in operating logs.

? Each system to include equipment and components therein, shall be fully operational and shall perform the service for which it was designed or installed. In addition:

? Electrical equipment shall be fully functional and free of frayed or broken wires or components; gauges shall be displaying actual pressures within two (2) percent and be free of cracks and corrosion; gauge glasses shall be clean, free of leaks, and readable from normal distances; dials shall be fully operational and readable; indicators shall be reading within two (2) percent of actual; motor running amps shall be within nameplate tolerances; wires and terminals shall be properly tightened and free of heating due to improper connections.

? Valves shall be free of leaks and be properly exercised; controls shall be fully operational; piping shall be properly secured, insulated, and leak free; tanks and pressure vessels shall be free of leaks and be properly certified; vault doors shall be operational and properly secured; entry ladders shall be properly secured and free of corrosion; pipe hangers shall be properly secured and not missing; and boilers and auxiliaries exteriors shall be clean.

? Pumps shall be properly lubricated and free of leaks and abnormal noises; make-up water regulators shall be properly adjusted; bearings on running machinery shall be properly lubricated and free of abnormal noises; water levels shall be maintained at factory recommended settings; low water cutoff devices shall be fully functional at all times; burners shall be properly adjusted to prevent air pollution and excess fuel consumption; boiler water shall be maintained within the limits listed in applicable operation and maintenance manuals; electric motors shall be properly mounted, fully operational, and free of noise and vibration; motors shall be free of overheating and excessive sparking.

? Pilot lights shall be functioning and of proper color; strainers in fuel pumps shall be free flowing and clean; switches shall be fully operational and free of loose or missing parts; starters shall be fully operational and free of dirt, carbon, and buzzing contactor coils; safety controls and devices shall be fully operational and free of irregular operation; pump to motor couplings shall be free of noises and vibrations; pump couplings shall be free of excess clearance; bolts, nuts, and screws shall be properly secured and free of loose or missing parts.

? Fire sides and uptakes shall be free of soot and debris; fire brick shall be free of cracks and open areas; tubes and flue sheets shall be free of soot and rust; tube bedding cement shall be free of cracks; fluids drained from bottom drain valves shall be free of sludges and heavy rusting; boilers shall be free of dirt, dust, and combustible materials; gaskets shall be free of cracks and leaks of water, air, or products of combustion.

? Steam supply and return condensate lines shall be free of leaks and blockages of rust or water. Radiators shall be clean and properly vented. Fan coil units shall be producing heat as designed. Thermostatic valves shall be properly adjusted and free of leaks. Manual valves shall be hand operable and free of leaks.

? Steam traps shall be functioning properly and free of leaks. An inventory of steam traps is listed in Attachment C.12-20. Steam Trap Inventory. Hot

well pumps shall be properly adjusted and free of leaks, rust and sediment buildup. Piping shall be properly fastened and free of leaks, vibrations, and uninsulated areas. Piping insulation shall be intact, properly fastened and weatherproofed. Condensate pump float switch/sensor shall be properly adjusted and functioning reliably. Water cut-off and fill controls shall be properly set and reliably operating.

? Condensate sumps shall be free of rust and sediment. Gauge glasses shall be clean, free of leaks and readable from normal distances. Valves shall be hand operable and free of leaks. Steam traps shall be operating properly and free of leaks.

C.12.1.3.1.4.3 Gas Heaters. Each gas heater shall operate in a safe, efficient and economical condition in accordance with manufacturers' recommended procedures and the requirements set forth in this specification. Each system to include equipment and components therein, shall be fully operational and shall perform the service for which it was designed or installed. In addition:

? Belts shall be free of cracks, breaks, and lubricants. Belts shall be high power and of a domestic manufacturer. Filters shall be replaced with new at the beginning of each heating season and shall be the high efficiency, pleated type having an ASHRAE dust spot rating of 30 to 60 percent minimum. Filters shall completely fill filter racks without air leakage. Bearings shall be properly lubricated and free of excess lubricant. Gas valves shall be functioning properly with all safety features operational. Thermostats shall be functioning properly with no loose or broken parts.

? Combustion air blowers and burner assemblies shall be free of lint, dirt and excess lubricant. Blower wheels shall be free of lint, dirt and filter material.

? Primary air shutters on gas burners shall be adjusted to produce clean, blue fires with no yellowing at tips. Primary air shutters on oil burners shall be adjusted to produce clean, smoke free fire.

? Fan switches shall turn fan on when air temperatures reach 140 degrees (or manufacturer's recommended setting) and off when air temperatures reach 120 degrees (or manufacturer's recommended setting). Limit switches shall disable burners when temperature exceeds manufacturer's limits. The flue gas shall be adjusted to obtain maximum efficiencies and not have more than 10 ppm CO. Limit switches shall disable burners when temperature exceeds manufacturer's limits. The flue gas shall be adjusted to obtain maximum efficiencies and not have more than 10 ppm CO.

C.12.1.3.1.4.4 Electric Heaters. Each electric heater shall operate in a safe, efficient, and economical condition in accordance with manufacturers' recommended procedures and the requirements set forth in this specification. Each system to include equipment and components therein, shall be fully operational and shall perform the service for which it was designed or installed. In addition, thermostats shall be operational, free of loose, missing, and damaged components. Heating elements and fins shall be free of dust, dirt and cracks.

C.12.1.4 SEASONAL OPERATION

The Service Provider shall maintain all HVAC&R equipment at NSWCCD Headquarters. Existing HVAC&R equipment is listed in Attachment C.12-8. HVAC & R Inventory.

C.12.1.4.1 Winter to Summer Turnover

The heating season is from October 15 to April 15. This is a general guideline for system readiness and manpower projections. All customers are to be kept comfortable. Any problem arising from system turnover shall be resolved by the Government Representative.

C.12.1.4.2 Summer to Winter Turnover

The cooling season is from May 15 to October 15. This is a general guideline for system readiness and manpower projections. All customers are to be kept comfortable. Any problem arising from system turnover will be resolved by the Government Representative.

C.12.2 BUILDING ELECTRICAL SYSTEMS

C.12.2.1 GENERAL INTENTION AND DESCRIPTION

The Service Provider shall provide all labor, supervision, materials, tools, equipment, transportation, management, administration and quality control, except those designated as Government-furnished, necessary to provide all the requirements in this specification. Requirements include maintenance and repair of the electrical distribution system and lighting systems as defined in this PWS. The Service Provider shall perform preventive maintenance on the electrical systems as required and defined herein.

C.12.2.2 PREVENTIVE MAINTENANCE ON ELECTRICAL SYSTEMS

C.12.2.2.1 Definition and Repair Limitation

The Service Provider shall accomplish all Preventive Maintenance Inspection (PMI) work within the firm fixed price portion of this contract. PMI is defined as routine, periodic maintenance and incidental repair requirements associated with facilities and dynamic equipment. PMI work includes but is not limited to visual and operational inspection, cleaning, corrosion removal and related painting, adjustment, lubrication and replacement of filters, belts, hoses and other expendable items required to correct or minimize operational wear and deterioration of facility systems and equipment. PMI work is continuous and repetitive in nature, and requires diligent and continuous program management by the Service Provider. The Service Provider shall accomplish all incidental repair or replacement of defective equipment or system components detected at the time of PMI performance. The Service Provider's repair work liability on a particular component or unit during PMI is limited by the service call limit for routine service calls. Repair work exceeding this limit shall be submitted to the Government Representative by the Service Provider and may be accomplished at the Government's discretion as Indefinite Quantity work.

C.12.2.3 APPLICABLE DEFINITIONS

C.12.2.3.1 Electrical System

C.12.2.3.1.1 The building electrical system is defined as including the distribution lines from the meter base or weatherhead (not including the meter base or weatherhead)

and includes all permanently attached lighting fixtures, distribution panels and uninterruptible power supply (UPS) units installed as an integral part of the facility electrical system.

C.12.2.3.2 Lighting

C.12.2.3.2.1 Lighting System: The lighting system is the system that originates from the power source to the luminary unit and includes all components and ancillary equipment associated therein. The lighting inventory is located in Attachment C.12-11. Lighting Inventory

C.12.2.3.2.2 Building Mounted Lighting (Exterior): Building mounted lighting (exterior) is that lighting used to illuminate building perimeters.

C.12.2.3.2.3 Decorative Lighting: Decorative lighting is that lighting which illuminates specific areas of interest.

C.12.2.3.2.4 Emergency Lighting: Emergency lights are those lights which are battery powered and which illuminate when a power failure has occurred. See Attachment C.12-18. Emergency Lighting Inventory for interior emergency lights located in facilities throughout the station. Maintenance includes all components of the fixture to include bulbs, battery, test button and wiring.

C.12.2.3.2.5 Exit Lights: Exit lights are those lighted signs which are mounted above doorways exiting each building and which state “EXIT”. See Attachment C.12-19. Exit Light Inventory for exit lights located in facilities throughout the station.

C.12.2.3.2.6 Electrical Equipment Rooms: Electrical equipment rooms are those rooms that contain transformers, circuit breakers and power distribution equipment.

C.12.2.4 REQUIREMENTS

The Service Provider shall:

C.12.2.4.1.1 Maintain the electrical systems and equipment specified in accordance with the Operations and Maintenance Standards specified herein.

C.12.2.4.1.2 The Service Provider shall accomplish all Preventive Maintenance Inspection (PMI) work within the firm fixed price portion of this contract. In addition to the electrical system within the buildings and structures listed in Attachment C.12-17. Facilities and Structures, a supplemental list of specific lighting equipment that also requires PMI is listed in Attachment C.12-11. Lighting Inventory.

C.12.2.4.1.3 Operate the standby emergency motor generator sets in accordance with manufacturer’s recommended procedures and the Operations and Maintenance Standards specified herein.

C.12.2.4.1.4 Inspect and manually re-start any system/equipment affected in the event a power outage causes cessation of normal operation.

C.12.2.5 DESCRIPTION

C.12.2.5.1 General

The building electrical system includes the exterior building lighting systems, and all interior lighting and power devices such as relays, transformers, controls, enclosures

and other components.

C.12.2.6 OPERATION AND MAINTENANCE STANDARDS

C.12.2.6.1 General

Each system shall provide full and continuous service 24 hours per day, seven (7) days a week, to applicable facilities on station. Each system, to include equipment and components therein, shall be fully operational and shall perform the service for which it was designed or installed. In addition:

C.12.2.6.1.1 Power Panels

Annually, the Service Provider shall perform PMI to ensure the integrity and aesthetics of all electrical panels and associated wiring. Each panel and circuit shall be properly labeled and all connections tightened. The Service Provider shall inspect for condensation or leakage and repair if necessary. The Service Provider shall clean and remove all debris, ensure that the panels/circuits are properly enclosed and that the voltage is correct. The Service Provider shall ensure the power panels are wired and sized correctly. The Service Provider shall check for grounding and bonding per the National Electric Code (NEC) and check for proper lightning protection.

C.12.2.6.1.2 Interior Emergency Lighting

Interior emergency lighting shall be fully operational 24 hours per day, seven (7) days a week. Each fixture shall be free of damaged, broken or non-operational components.

C.12.2.6.1.3 Exit Lights

The Service Provider shall:

Quarterly, test each battery powered backup unit. Maintain a logbook of each test. The logbook shall contain a minimum of the location, date, time and results of each test.

Exit lights shall be fully operational 24 hours per day, seven (7) days a week. Exit lights shall be maintained and operational in accordance with the NFPA 101, Life Safety Code. “EXIT” display shall be free of cracks and breaks. Cabinet shall be free of damage, unpainted areas, and shall be securely mounted to the applicable surface.

C.12.2.6.1.4 Building Exterior Lighting

The Service Provider shall:

Reset timers for optimum energy conservation and safety.

Exterior lighting, to include individual lights, fixtures and components, shall be operational 24 hours per day, seven (7) days a week. When two or more lights are not functioning and the lights are adjacent to each other in a linear light pattern or a grid pattern, such shall be repaired within 24 hours, otherwise lighting shall be repaired in accordance with the standards set forth herein.

C.12.2.6.1.5 Electrical Equipment Room Maintenance

Electrical equipment rooms shall be clean, free of dust, oil, grease, debris, old parts, dirt, and water on the floors. Horizontal surfaces of equipment, pipes, conduit and structural members shall be free of sand, dirt, dust, insects and cobwebs. Walls and ceilings shall be free of cobweb. Lighting shall be fully operational. Air filters utilized for intake air filtering shall be clean and perform as designed.

C.12.3 SANITARY SEWAGE SYSTEM

C.12.3.1 GENERAL INTENTION AND DESCRIPTION

C.12.3.1.1 Requirements

The Service Provider shall:

C.12.3.1.1.1 Operate and maintain the sanitary sewage collection lines and pumping system in accordance with the Operation and Maintenance Standards specified herein.

C.12.3.1.1.2 Accomplish all Preventive Maintenance (PMI) work within the firm fixed price portion of this contract. The list of equipment that requires PMI is listed in Attachment C.12-12. Sanitary Sewer System Equipment.

C.12.3.1.1.3 Test pumps at each sewage lift station.

C.12.3.1.1.4 Clean grease traps monthly in Building 103.

C.12.3.1.2 Applicable Definitions

Sanitary sewage systems for this PWS are defined as including that part of the system from inside the building to five feet out from the building exterior wall.

C.12.3.1.3 Description

Operation and maintenance of the sanitary sewage system includes all mains, service lines including laterals, pumping and lift stations, manholes and grease traps located within the buildings and to a point five (5) feet from the exterior wall of the building. The following is a general description of the systems and equipment:

See Attachment C.12-12. Sanitary Sewer System Equipment and the associated map in the TRL.

All Carderock sewage ends up at the Water and Sewer Authority of Washington D.C.'s Blue Plains Plant for treatment. All sewage is regulated under Permit number 028-4 for temperature, pH, metals, toxic organics and oil and grease.

C.12.3.1.4 Operation and Maintenance Standards

The sewage collection lines, pumping system and all components described herein shall be fully operational and shall provide/perform the service for which they are designed and installed 24 hours per day, seven (7) days a week. In addition:

C.12.3.1.4.1 Sewage collection lines and pumping system operations shall provide continuous, efficient conveyance of all wastewater.

C.12.3.1.4.2 Effluent discharge practices and water quality levels shall comply with the NPDES permit requirements.

C.12.3.1.4.3 Use of bacterial enzymes shall be in strict accordance with

manufacturer's directions and all Local, State, DON and Federal Regulations.

C.12.3.1.4.4 The sanitary sewage system shall be operated and maintained in accordance with applicable health and regulatory agency standards as outlined in Permit #028-4.

C.12.3.1.4.5 Sewage collection lines shall be free of blockages, broken lines, leaking joints and infiltration.

C.12.3.1.4.6 Systems shall be maintained free of flooding, pump station failures, pipe blockages and infiltration and inflow conditions.

C.12.3.1.4.7 Grease Traps. The Service Provider shall remove and properly dispose of the contents of the grease traps in food handling areas at Building 103.

C.12.4 STORAGE TANKS

C.12.4.1 GENERAL INTENTION AND DESCRIPTION

Inspections of Aboveground and Underground Storage Tanks are performed by the NSWCCD Environmental, Safety and Health Department. The Service Provider shall perform maintenance and repair work resulting from those inspections as described herein.

The No. 2 fuel oil storage capacity of the Carderock site is 32,000 gallons. The Building 6 Central Heating Plant has two (2) tanks with associated piping and equipment. The tanks are above ground. The piping distribution system supporting the Central Heating Plant consists of steel pipe, ranging from 1 inch to 3 inches in diameter.

Storage Tank Systems include but are not limited to; (1) tanks; (2) piping; (3) fittings; (4) valves; (5) pumps; (6) motors; (7) pipe anchors; (8) pipe supports; (9) high and low level alarms; and (10) secondary containments.

Underground Tanks Description: There are seven (7) underground tanks. Location, capacity, product and identification is provided in Attachment C.12-13. Storage Tank Inventory.

Aboveground Tanks Description: There are 21 aboveground tanks. Their location, capacity, product and identification is also provided in Attachment C.12-13. Storage Tank Inventory.

C.12.4.1.1 Requirements

The Service Provider shall:

C.12.4.1.1.1 Maintain Storage Tank systems in accordance with the Operation and Maintenance Standards specified herein.

C.12.4.1.1.2 When leaks or structural failure are reported, perform corrective action as an emergency. For other work required, perform as routine.

C.12.4.1.2 Applicable Definitions

There are no specific definitions used in this section.

C.12.4.1.3 Operation and Maintenance Standards

Each storage tank system shall be fully operational and provide/perform the services

for which it is designed and installed, 24 hours per day, seven (7) days per week. Aboveground storage tanks (AST) shall be maintained and operated in accordance with the Code of Maryland Regulations, COMAR 26.10.01.12, 29 CFR 1910.106 and 40 CFR 280 respectively. Steps/stairs, ladders and catwalks on ALL tanks shall be maintained in accordance with 29 CFR 1910.106.

C.12.5 AIR COMPRESSOR EQUIPMENT AND DISTRIBUTION SYSTEMS

C.12.5.1 AIR DISTRIBUTION SYSTEMS

C.12.5.1.1 Requirements

The Service Provider shall operate and maintain the air compressor equipment and distribution systems in accordance with manufacturer's recommended procedures and the Operation and Maintenance Standards specified herein.

C.12.5.1.1.1 Accomplish all Preventive Maintenance (PMI) work within the firm fixed price portion of this contract. The list of equipment that requires PMI is listed in Attachment C.12-14. Air Compressor Inventory.

C.12.5.1.2 Component Definition

A compressed air system is defined as that part of the station distribution system from the building side of the shut-off valve (not including the valve itself) to the delivery point inside the building. For individual building systems, the entire system, including the air compressor, is included.

C.12.5.1.3 General Description

Air compressors, as used herein, are those air compressors which generate zero to 685 cfm at 100 psi or less. Air compressors are used for filling tires, painting, cleaning, operating jacks and hoists, industrial machine tool operations, particle blasting and control system operations. The basic components of air compressor systems include: air compressors, after coolers, glycol coolers, electric motors, filters sediment bowls, oilers, air receivers, piping (underground and aboveground and expansion joints, pipe anchors), valves, pressure regulators, drains, dryers/dehydrators and fittings and includes components therein. Operation and maintenance of the air compressor equipment and distribution system includes the electrical system starting at the distribution panel of the electrical power and ending at the air compressor.

See Attachment C.12-14. Air Compressor Inventory for air compressors to be operated and maintained by the service provider.

C.12.5.1.4 Operation and Maintenance Standards

C.12.5.1.4.1 Compressors and distribution systems shall provide clean (less than 0.01 ppm contaminants), dry, compressed air at the rated pressure to the points of usage 24 hours per day, seven (7) days a week. The air compressors shall be maintained in a safe, operable, efficient and economical condition in accordance with the manufacturers' recommended procedures and the applicable specifications and instructions.

C.12.5.1.4.2 Each system, to include equipment and components therein, shall be fully operational and shall perform the service for which it was designed or installed. In addition:

C.12.5.1.4.3 Air piping shall be firmly attached, properly painted, and shall be free of leaks. Modified or new piping shall be properly color coded and labeled. Traps, hoses and valves shall be operational, firmly attached and free of leaks and drips. Relief valves shall be fully operational and of the proper size for the device being protected. Pressure regulators shall be fully operational and functioning as designed. Compressors, storage tanks, piping and compressor housing shall be free of excess lubricants, unpainted spots, rust, and other foreign material.

C.12.5.1.4.4 Air filters shall be clean and free of deposits of lint and dirt. Sediment filter cartridges shall be clean and free of debris and oil. Condensers/evaporators shall be free of dirt and oil. Air receivers shall be free of corrosion, rust, metal gouges, and unpainted areas. Intake silencers shall be free of loose parts, air leaks and unpainted areas. Separators shall be properly drained of water and oil and shall be free of leaks.

C.12.5.1.4.5 Lubricants shall be maintained at proper levels and shall be of the type recommended by the manufacturer. Bearings shall be properly lubricated and free of excess lubricants and seal leakage.

C.12.5.1.4.6 Belt guards shall be fully functional and in place at all times. V-belts shall be properly adjusted, free of cracks, frays and lubricants. Mounting brackets shall be functional, complete and free of loose fasteners.

C.12.5.1.4.7 Electric motors shall be properly lubricated, clean and operating within design specifications. Fuses and circuit breakers shall be of the proper size and type and shall be tight fitting and free of loose connections. Wiring shall be free of loose or corroded connections shall be properly routed, of the proper size and tightly attached to terminals, and free of discoloration. Starter, motor controllers and associated switches shall be free of loose connections, damaged wiring, grounding and loose, burned or corroded contacts. Safety devices shall be fully operational and certified where necessary by code. Warning lights and alarms shall be fully functional.

C.12.5.1.4.8 Pressure vessels shall be tested in accordance with MO-324 and ASME Boiler and Pressure Vessel Codes.

C.12.5.1.4.9 Gauges, meters, and safety devices shall be calibrated as required by applicable standards and shall have certification labels prominently displayed on each calibrated item. Gauges and meters shall be accurately registering within two (2) percent of full scale at all times.

C.12.6 VENTILATION AND EXHAUST SYSTEMS

C.12.6.1 GENERAL INTENTION AND DESCRIPTION

C.12.6.1.1 Requirement

The Service Provider shall:

C.12.6.1.1.1 Operate and maintain ventilation equipment in accordance with the Operation and Maintenance Standards specified herein.

C.12.6.1.1.2 Clean hoods, fans and other grease removal devices prior to surfaces becoming heavily contaminated with grease. However, cleaning shall not be

performed less often than every three (3) months. Inspection and cleaning of hoods, fans and other grease removal devices shall be performed in accordance with NFPA 17A, Standard for Ventilation Control and Fire Protection of Commercial Cooking Operations. In addition, clean areas on roofs where grease collects.

C.12.6.1.1.3 Annually, during the month of November, the Service Provider shall ensure all ventilation openings; panels and screens, under and above buildings are closed for the winter. Annually, during the month of May, the Service Provider shall open all ventilation openings, panels and screens for the summer. Repair, rebuild, prime and paint vents and louvers as necessary.

C.12.6.1.1.4 Annually, the Service Provider shall perform an inspection of all roofs and perform all repairs as required. This inspection shall include flashing, gutters and downspouts, and the cleaning of all drains/gutters for leaves and debris.

C.12.6.1.1.5 Accomplish all Preventive Maintenance (PMI) work within the firm fixed price portion of this contract. The list of equipment that requires PMI is listed in Attachment C.12-15. Exhaust Fan Inventory.

C.12.6.1.2 Applicable Definitions

C.12.6.1.2.1 Exhaust Fan. Fan which exhausts indoor air to the outside of the facility.

C.12.6.1.2.2 Return Air Fan. Fan which recirculates indoor air.

C.12.6.1.2.3 Supply Air Fan. Fans which furnish ventilation air from outside the building.

C.12.6.1.2.4 Paint Booth. An enclosed area supplying fresh filtered air with an exhaust fan. Paint booths are typically used for painting vehicles and equipment.

C.12.6.1.3 Description

Ventilation equipment includes all exhaust fans; supply air fans; return air fans; dust collection systems; fume collection systems; grease removal devices to include hoods, fans, ducts and appurtenances thereof. In addition, ventilation equipment as used throughout the following paragraphs include:

C.12.6.1.3.1 The electrical system starting at the source of the electrical power at the main circuit breaker leading to the equipment.

C.12.6.1.3.2 Ductwork, starting at the point of collection and ending at the point of discharge.

C.12.6.1.3.3 See Attachment C.12-15. Exhaust Fan Inventory for exhaust and ventilation information.

C.12.6.1.4 Operation and Maintenance Standards

C.12.6.1.4.1 Each ventilation unit shall be maintained in a safe, operable, efficient, and economical condition in accordance with manufacturer's recommended procedures and the requirements set forth in this specification.

C.12.6.1.4.2 Each unit, to include equipment and components therein, shall be fully operational and shall perform the service for which it was designed or installed 24 hours per day, seven (7) days a week. In addition:

C.12.6.1.4.2.1 Filters shall be maintained to prevent degradation of system performance and shall be of the proper size for the filter rack. Replacement filters shall be of the high efficiency, pleated type having an ASHRAE dust spot rating of 30 to 60 percent minimums.

C.12.6.1.4.2.2 Belts shall be free of frays, cracks, breaks, noises and vibrations. Replacement belts shall be of the high power domestic type only.

C.12.6.1.4.2.3 Bearings shall be properly lubricated, free running, quiet, and free of vibration and excess lubricants. Nuts, bolts, screws and other securing devices shall be tight and free of vibration and loose parts. Motor mounts and vibration pads shall be firm and properly tightened. Motor running amps shall be within tolerance for type of equipment being maintained. Electrical connections shall be tight and clean. Motor assemblies shall be quiet and properly lubricated. Motors shall be free of dirt, lint and excess lubricant. Fans shall be free of cracks, lint and dirt. Blowers shall be free of vibration, dirt and lint.

C.12.6.1.4.2.4 Blower wheels and motor fans shall be free of lint, dirt, vibration and excess lubricant. Pulleys shall be free of vibration, slippage and grooves deeper than 1/32". Bearing bolts shall be tight, properly lock-washered and adjusted.

C.12.6.1.4.2.5 Ductwork shall be clean, free of obstructions, deposits, leaks, grease, and shall be properly mounted. Access doors and ductwork shall be free of vibrations, noises and air leaks. Ductwork and pipe insulation shall be properly maintained and free of tears, rips and loose or missing sections. Hoods and ducts shall be free of grease buildup. Drains shall be free of obstructions and dirt. Mounting brackets shall be tight and properly secured. Drip pans shall be clean and free of rust, corrosion and grease. Unit exterior shall be free of rust, grease, mineral deposits, peeling paint and unpainted areas.

C.12.7 PERIMETER FENCE

C.12.7.1 GENERAL INTENTION AND DESCRIPTION

The Service Provider shall maintain and repair the perimeter fence as required to maintain proper physical security of the base.

C.12.7.2 PERIMETER FENCE REPAIR

C.12.7.2.1 Requirements

The Service Provider shall process as an emergency service call requirement, any call pertaining to cuts or damage to the perimeter fencing. The Service Provider shall accomplish temporary/emergency repairs to damaged perimeter fencing to maintain perimeter security.

C.12.7.2.2 Definitions

There are no specific definitions used in this section.

C.12.7.2.3 Description

The Perimeter fences are depicted in the base map of the fence line found in the TRL.

C.12.7.2.4 Operation and Maintenance Standards

The Service Provider shall repair any damaged perimeter fencing to prevent unauthorized entry into the base through the damaged fence. The method employed shall be approved in advance by the Government Representative. The Service Provider shall respond within one (1) hour of notification and shall conduct repairs to secure the fence from unauthorized entry through the cut or damaged area. The Service Provider shall ensure that Maintenance Control is notified such that permanent repairs can be arranged the first working day subsequent to the temporary repairs.

C.12.8 BUILDING POTABLE WATER SUPPLY SYSTEMS

C.12.8.1 GENERAL INTENTION AND DESCRIPTION

C.12.8.1.1 Requirements

The Service Provider shall:

C.12.8.1.1.1 Operate and maintain the potable water supply and distribution system as defined in the PWS in accordance with the Operation and Maintenance Standards specified herein.

C.12.8.1.1.2 Accomplish all Preventive Maintenance (PMI) work within the firm fixed price portion of this contract. The list of equipment that requires PMI is listed in Attachment C.12-16. Backflow Preventer Inventory.

C.12.8.1.1.3 Perform potable water distribution system services relating to work being performed by other Service Provider's or Government agencies when requested by the Government Representative. Such services include securing of water and minor repairs. This is estimated to occur approximately four (4) times per year. This service is estimated not to exceed two (2) hours per request or occurrence.

C.12.8.1.1.4 Perform testing of backflow prevention devices annually in accordance with manufacturer's specifications. Perform a field test on backflow prevention devices when disassembly and repairs are accomplished. Record test results on field inspection form and submit to the Government Representative within five (5) working days after completion of the test.

C.12.8.1.1.5 Apply a disinfectant in accordance with NAC 445 and NAVMED P-5010 when performing maintenance on the water distribution system.

C.12.8.1.2 Applicable Definitions

Building potable water system is defined as that part of the distribution system from the building side of the shut-off valve (not including the valve itself) to all delivery points inside the building.

C.12.8.1.3 Description

The applicable systems and equipment are described as follows:

Potable Water Distribution Piping. See the map of the Potable Water Distribution System in the TRL.

Backflow Prevention Devices. See Attachment C.12-16. Backflow Preventer Inventory for location of the backflow prevention devices. Backflow prevention devices include reduced-pressure principal backflow prevention assemblies, double check valve assemblies, and pressure vacuum breaker assemblies used as cross-connection

control devices and all components therein.

C.12.8.1.4 Operations and Maintenance Standards

The following Operation and Maintenance Standards apply 24 hours per day, seven (7) days per week.

C.12.8.1.4.1 The potable water distribution system shall be operated and maintained in accordance with NAC 445, OPNAVINST 5090.1B, NAVMED P-5010 and MO-210. If at any time there is a conflict between any of the above regulations, the most stringent shall apply.

C.12.8.1.4.2 Equipment, systems and components therein shall be fully operational and perform the service for which it was designed or installed.

C.12.9 CEREMONIAL SUPPORT

C.12.9.1 GENERAL INTENTION AND DESCRIPTION

The Service Provider shall provide labor, materials, tools, equipment and supervision to support major meetings and ceremonial services. Activities that require major meeting and ceremonial support services include change of command ceremonies, open houses, family days, recruiting drives, ice cream socials and meetings.

C.12.9.1.1 Requirements

The Service Provider shall:

C.12.9.1.1.1 Provide ceremonial support. The requirement for ceremonial support is estimated to occur approximately three (3) times per year. Ceremonial support may include: providing power connections to portable equipment; facility mechanical, HVAC and electrical systems monitoring; and emergency watch standing.

C.12.9.1.1.2 Provide major meeting support. The requirement for major meeting support is estimated to occur approximately six (6) times per year. Major meeting support may include: providing power connections to portable equipment; facility mechanical, HVAC and electrical systems monitoring; and emergency watch standing.

C.12.9.1.2 Applicable Definitions

Major meetings include meetings conducted in a single conference room, commemorative occasions conducted in a single conference room, open houses conducted in major facilities throughout the Carderock site, recruiting drives making use of various conference rooms and facilities and ice cream socials conducted in cafeteria settings.

C.12.9.1.3 Description

No description is required.

C.12.9.1.4 Operation and Maintenance Standards

C.12.9.1.4.1 The speaker podium shall be maintained in sound structural condition, free of broken boards, flooring, support members and rails and shall be free of chipped or worn paint. The podium shall be painted as directed.

C.12.10 EXPLOSIVES GROUNDING AND LIGHTNING PROTECTION SYSTEM

C.12.10.1 GENERAL INTENTION AND DESCRIPTION

The Service Provider shall provide all labor, supervision, materials, tools, equipment, transportation, management, administration and quality control necessary to provide all requirements in this specification. The Service Provider shall manage, inspect and maintain the explosive grounding and lightning protection system at the NSWCCD Headquarters. See Attachment C.12-10. Explosives Grounding and lightning protection system. This section involves a number of restricted areas. Work shall be coordinated with the Government Representative.

C.12.10.1.1 Requirements

The Service Provider shall:

C.12.10.1.1.1 Maintain the explosive grounding and lightning protection system in accord with the Operation and Maintenance Standards specified herein.

C.12.10.1.1.2 Visually inspect the explosive grounding and lightning protection system on a six-month basis for indications of loose connections, damage to system components. Check for any indication of lightning damage and any changes that would cause the system to work other than as designed.

C.12.10.1.1.3 Perform the grounding test and visual inspection of the explosive grounding and lightning protection system on a twenty four-month basis to determine that components meet resistance requirements of NAVSEA OP-5, that no damage has occurred to the system. Check for any indication of lightning damage and that nothing has changed that would cause the system to work other than as designed.

C.12.10.1.1.4 Perform monthly ground tests for twelve consecutive months on newly established test points to establish initial baseline.

C.12.10.1.1.5 Maintain a record of each inspection performed and submit to the Government Representative within five (5) days of completion.

C.12.10.1.1.6 Correct minor problems as encountered during the inspection process.

C.12.10.1.2 Applicable Definitions

There are no specific definitions used in this section.

C.12.10.1.3 Description

The explosives grounding and lightning protection system includes: (1) Gate 3, the Truck Gate, at MacArthur Boulevard; (2) Gates A and B at the Explosives Test Area; (3) the Magazine fence, gate and storage area, Building 120; (4) the Loading House, Building 122, (5) the Drop Tower and Test Pits, Building 105; and (6) the two piers at the Test Pond, Building 134.

Truck Gate 3, Gates A and B at the explosives test area are grounded and bonded to prevent sideflash to vehicles or personnel transporting explosive materials. The Magazine, Building 120, has a primary and a secondary lightning and grounding system. The primary system consists of lightning masts with down conductors connected to a buried ground girdle. Resistance of this system to ground must be 25

ohms or less. All structural and other steel objects associated with the magazine are connected to the secondary ground girdle. The primary and secondary ground girdles are connected together. The Loading House, Building 122, is wood construction and has two ground rods and a ground girdle. The Drop Tower and Test Pits, Building 105, are concrete and steel and designed to be self-grounding. The Drop Tower has three (3) lightning rods. At the Test Pond, Building 134, the short pier (adjacent to Building 156) and the lower support structure for the long pier are constructed to be self-grounding. The superstructure and other miscellaneous metallic portions of the long pier are bonded to the lower structure

C.12.10.1.4 Operation and Maintenance Standards

The explosives grounding and lightning protection system shall be fully operational and provide the services for which it is designed and installed, 24 hours per day, seven (7) days per week. The explosives grounding and lightning protection system shall be precisely maintained and operated in accordance with NAVSEA OP-5, Volume 1, Ammunition and Explosives Ashore: Safety Regulations for Handling, Storing, Production, Renovating and Shipping; Standard Operating Procedure for the Grounding and Lightning Protection for the Explosive Test Areas, SOP 36-120; Policy and Procedure for the Testing of the Grounding and Lightning Protection System, PP 36-98-120.

C.12.11 FACILITIES AND STRUCTURES

C.12.11.1 GENERAL INTENTION AND DESCRIPTION

C.12.11.1.1 Requirements

The Service Provider shall operate, maintain and perform preventive maintenance pursuant to paragraph C.11.6.1 on facilities, structures and equipment installed therein as identified in Attachment C.12-17. Facilities and Structures. Preventive maintenance is required to ensure the facility/building electrical distribution system, potable water supply, sewage collection systems, floors and floor coverings, walls and wall coverings, ceilings, doors, windows, stairs, bathroom fixtures and accessories, kitchen/kitchenette fixtures and accessories, roofing, lighting, fire extinguisher holders, switch plates and cover plates meet the Operations and Maintenance Standards specified herein 24 hours per day, seven (7) days per week.

C.12.11.1.1.1 Changes to Inventories

Demolition and construction of entire buildings and structures, existing space renovations and changes to components or whole systems will occur during the performance period of the contract. The impact of any change that occurs will be addressed at that time with the Service Provider.

C.12.11.1.2 Applicable Definitions

There are no specific definitions used in this section.

C.12.11.1.3 Description

C.12.11.1.3.1 Electrical Distribution System. The electrical distribution system is the entire system which begins on the load side of the meter or main of each building, facility or structure and is inclusive of the load side and attached fixtures.

C.12.11.1.3.2 Potable Water Systems. Potable water systems for each facility begin at the point where the potable water enters the building or structure and ends at and is inclusive of each fixture.

C.12.11.1.3.3 Sewage Collection Systems. Sewage collection systems for each facility begin at, and are inclusive of, each fixture within the building or structure and ends at a point five (5) feet from where the sewage exits the building.

C.12.11.1.3.4 Floors. Floors include structural flooring, subflooring, floor coverings and floor markings.

C.12.11.1.3.5 Walls. Walls as used are those vertical surfaces, both interior and exterior, which enclose, divide or separate units of the facility or building. Wall coverings include textured walls, wallpaper, ceramic tiles, stucco, brick, concrete, masonry, dry wall, plaster, wainscot, paneling, exterior siding and covebase.

C.12.11.1.3.6 Ceilings. Ceilings and ceiling components as used includes all material used to cover the interior upper surface of a room.

C.12.11.1.3.7 Doors. Doors as used includes interior/exterior facility doors, rollup doors and patio doors. Maintenance of doors and door components includes the door, door facings, thresholds, trim, jamb, hardware to include hinges, closures and striker plates, door stops, sweeps, weather stripping, lock sets, glass, tracks, face plates, door kicks, alarms, bells, and all electrical/mechanical opening and closing devices to include all components therein required to open and close the door.

C.12.11.1.3.8 Windows. Windows and window components as used includes the pane; trim; window facings; frames; weather stripping; window screens; window runners; window coverings to include blinds, drapes, curtains and all related hardware.

C.12.11.1.3.9 Stairs. Stairs and stair components as used includes the risers, treads, banisters, railings, stringers, brackets, non-skid and other coverings and all associated components.

C.12.11.1.3.10 Bathroom Fixtures and Accessories. Bathroom fixtures and accessories as used includes paper holders, soap trays, towel bars, shower curtain rods, medicine cabinets, mirrors, vanities, shelves, cabinets, counter tops, privacy panels, showers, shower doors, bathtubs, urinals, commodes, sinks, lavatories, basins, drains, faucets, traps and all associated components.

C.12.11.1.3.11 Kitchen/Kitchenette Fixtures and Accessories. Kitchen/kitchenette fixtures and accessories as used includes paper holders, soap trays, towel bars, mirrors, shelves, cabinets, counter tops, sinks, drains, faucets, traps and garbage disposals.

C.12.11.1.3.12 Roofing. Roof coverings and roofing components as used include flashing, gravel stops, gutters, downspouts, overhangs, vents, splash blocks, drip caps and drain grills.

C.12.11.1.3.13 Lighting. Lighting and lighting components as used includes the lighting fixture and components therein, diffusers, globes, covers, bulbs and tubes. General Office relamping as excluded in section C.11.2.5.2.2 is covered by an

existing regional contract and includes replacing typical tubes and bulbs only for working heights of 8 feet or lower. This regional contract does not include any repairs of lighting equipment of systems. The Service Provider shall repair all fixtures regardless of location or type, upon the receipt of a service call from the Government including replacing of tubes or bulbs if required to restore service.

C.12.11.1.3.14 Fire Extinguisher Holders. Fire extinguisher holders as used includes the cabinets, boxes, brackets, glass and hardware.

C.12.11.1.3.15 Closets/Lockers. Closet/lockers as used is any unit designed for storage of personal effects. Maintenance of includes the walls, top, base/floor, bars/rods and doors, to include door handles and locking devices and associated hardware and components.

C.12.11.1.4 Operations and Maintenance Standards

The following Operations and Maintenance Standards shall be applicable 24 hours per day, seven (7) days per week.

C.12.11.1.4.1 Electrical Distribution System. The electrical distribution system shall be fully operational and perform/provide the service for which it is designed and/or installed. In addition, all materials, system components, and workmanship shall conform to the National Electrical Code and all other applicable codes and regulations.

C.12.11.1.4.2 Potable Water Systems and Sewage Collection Systems. Potable water supply and sewage collection systems shall be fully operational and shall perform/provide the service for which they are designed and/or installed. All materials and workmanship shall conform to industry standards and all other applicable codes and regulations.

C.12.11.1.4.3 Floors and Floor Coverings. Floor and floor coverings shall be maintained to minimize chips, gouges, breaks, holes, rips, loose or warped areas, stains, missing and/or damaged portions/pieces. Floor markings shall be free of fading, chips, gouges, damage and loose and/or peeling markings.

C.12.11.1.4.4 Walls and Wall Coverings. Walls and wall coverings shall be maintained to minimize holes, chips, gouges, cracks, rips, loose or warped areas, stains, missing or loose tiles and unpainted areas. Missing tiles shall be replaced with like or similar tiles of same or better quality.

C.12.11.1.4.5 Ceilings. Ceilings shall be maintained to minimize holes, sags, chips, gouges, cracks, rips, loose or warped areas, stains and unpainted areas. Ceiling tiles and components shall be maintained to minimize holes, sags, stains, cracks and chips. Missing tiles shall be replaced with like or similar tiles of same or better quality.

C.12.11.1.4.6 Doors. Doors and door components shall be maintained to minimize holes, chips, gouges, cracks, rips, loose or warped areas, stains, unfinished areas and missing components. All doors and associated components shall function and be installed as designed. Doors shall conform to all applicable codes and regulations.

C.12.11.1.4.7 Windows. Windows and window components shall be maintained to minimize cracked or broken panes, missing hardware or components. Windows and window coverings, and all associated hardware shall be properly installed and shall function as designed.

C.12.11.1.4.8 Stairs. Stairs and stair repairable accessories shall be replaced with items of equal or better quality. Applicable fixtures shall be free of leaks, drips and obstructions.

C.12.11.1.4.9 Bathroom Fixtures and Accessories. Bathroom fixtures accessories shall be maintained to minimize holes, chips, gouges, cracks, breaks, rips, loose areas, warped areas, stains, unfinished areas and/or missing components. Bathroom fixtures and accessories shall be properly installed and if required be firmly attached to wall or fixture. All fixtures and accessories shall function as designed. Missing or unrepairable accessories shall be replaced with items of equal or better quality. Applicable fixtures shall be free of leaks, drips and obstructions

C.12.11.1.4.10 Kitchen/Kitchenette Fixtures and Accessories. Kitchen/Kitchenette fixtures and accessories shall be maintained to minimize holes, chips, gouges, cracks, breaks, rips, loose areas, warped areas, stains, unfinished areas and/or missing components. Kitchen/Kitchenette accessories shall be properly installed and, if required, be firmly attached to wall or fixture. All fixtures and accessories shall function as designed. Missing or unrepairable accessories shall be replaced with items of equal or better quality. Applicable fixtures shall be free of leaks, drips and obstructions.

C.12.11.1.4.11 Lighting. All lighting shall be fully operational and perform/provide the service for which it was designed and/or installed. To be fully operational all luminary units shall be functional and free of defects (example: flickering).

C.12.11.1.4.12 Switchplates and Coverplates. Switchplates and coverplates shall be free of cracks, breaks and missing pieces. Switchplates and coverplates shall be properly secured and not loose fitting.

C.12.11.1.4.13 Fire Extinguisher Holders. Fire extinguisher holders shall be securely attached to the wall. Boxes and doors shall be free of damage and missing components. Glass/Plexi-glass shall be free of cracks and breaks. Fire hose brackets shall be free of damage and defects and shall be securely fastened to the structure as designed.

C.12.11.1.4.14 Roofing. Roofing and roofing components shall be free of leaks and shall be properly attached to facility as designed. Downspouts shall be free of obstructions. Splash blocks shall be in proper place.

C.12.11.2 MECHANICAL ROOM MAINTENANCE

C.12.11.2.1 Requirements

The Service Provider shall maintain all mechanical rooms in accordance with the Operation and Maintenance Standards specified herein.

C.12.11.2.2 Applicable Definitions

Not Used.

C.12.11.2.3 Description

Mechanical rooms are those rooms which contain the heating, air conditioning, air compressor, refrigerating, air dehydration and temperature control equipment identified within Attachment C.12-17. Facilities and Structures.

C.12.11.2.4 Operation and Maintenance Standards

Mechanical rooms shall be clean, free of dust, oil, grease, debris, old parts, dirt and water on the floors. Horizontal surfaces of equipment, pipes, conduit and structural members shall be free of sand, dirt, dust, insects and cobwebs. Walls and ceilings shall be free of cobwebs. Lighting shall be fully operational. Air filters utilized for intake air filtering shall be clean and perform as designed.

C.12.12 BUILDING SIGNS

C.12.12.1 GENERAL INTENTION AND DESCRIPTION

C.12.12.1.1 Requirements

The Service Provider shall:

C.12.12.1.1.1 Maintain signs and the holding structures, i.e., poles, posts, brackets, braces, etc., in accordance with the Operation and Maintenance Standards specified herein.

C.12.12.1.1.2 Replace damaged or deteriorated signposts.

C.12.12.1.2 Applicable Definitions

There are no specific definitions used in this section.

C.12.12.1.3 Description

Signs as used in this PWS include all directional, informational and instructional signs. Signs may be located within facilities or on facilities. Signs include those which are painted directly on structures or are fabricated of wood, metal, or plastic.

C.12.12.1.4 Operation and Maintenance Standards

The following standards are applicable 24 hours per day, seven (7) days a week.

C.12.12.1.4.1 Signs shall be free of damage to include graffiti, missing components, and missing lettering. Signs shall be securely fastened to the displaying structure and shall not be hanging askew. Lettering or numbering on signs shall not be faded and shall be clearly readable.

C.12.12.1.4.2 Signposts shall be free of dents and bends, unless said dents and/or bends are an integral part of the design or fabrication of the post. Any leaning signs will be repositioned.

C.12.12.1.4.2.1 Signs indicating directional, informational and instructional information shall be maintained, fabricated and installed in accordance with the Base Exterior Architectural Plan (BEAP).

C.12.13 STORM WATER COLLECTION PUMPING AND EQUIPMENT

C.12.13.1 GENERAL INTENTION AND DESCRIPTION

C.12.13.1.1 Requirements

The Service Provider shall maintain all drainage structures as defined below in accordance with the Operation and Maintenance Standards specified herein. Specifically, the Service Provider shall accomplish all Preventive Maintenance Inspection (PMI) work within the firm fixed price portion of this contract. The list of equipment that requires PMI is listed in Attachment C.12-21. Sump Pump Inventory. The building storm water collection pumping and all components therein shall be fully operational and shall provide/perform the service for which it was designed and installed 24 hours per day, 7 days a week. In addition, in the event of a power failure all storm, spring and ground water sump pump locations will be monitored. In the event of flooding a submersible pump will be installed using a temporary generator to evacuate the water. Damage to government property must be prevented.

C.12.13.1.2 Applicable Definitions

Storm drainage structures and components for the purpose of this PWS are defined as those parts of the storm drainage system inside the building or structure and extending to a point five (5) feet from the building/structure exterior wall.

C.12.13.1.3 Description

Storm water collection pumping components covered by this PWS include pumps, pump motors, interconnected piping and valves, motor controllers and wiring.

For information: Storm water and process water discharges at Naval Surface Warfare Center, Carderock Division are regulated under the State discharge permit number 93-DP-2498 (USEPA NPDES permit number MD0003051). The receiving body of water for the facility is the Potomac River. Tributaries connect the facility's outfalls with the Potomac River. The TRL has a Public Works plan showing outfalls, storm water inlets, storm water manholes, outlet piping, storm headwalls and cooling towers.

C.12.13.1.4 Operation and Maintenance Standard

Storm water collection pumping components described herein shall be maintained in a condition to provide or perform the service for which they were designed and/or installed, 24 hours per day, seven (7) days per week. Storm water collection lines and pumping system operations shall provide continuous, efficient conveyance of all storm water; free of flooding, pump station failures, pipe blockages, broken lines, leaking joints and infiltration.

C.12.13.1.5 Drainage System Cleaning and Modifications

No drainage system cleaning or modifications are allowed without written approval from a Government Representative.

ATTACHMENT C.12-8. HVAC & R INVENTORY

ATTACHMENT C.12-8 HVAC AND REFRIGERATION INVENTORY

EQUIPMENT NUMBER	EQUIPMENT NAME	BLDG #	MODEL	MANUFACTURER	SERIAL NUMBER	LOCATION	SIZE	FREON TYPE
001FCU033	FAN COIL UNIT	001		DUNHAM-BUSH		216M		
001FCU032	FAN COIL UNIT	001		DUNHAM-BUSH		214D		
001FCU031	FAN COIL UNIT	001		DUNHAM-BUSH		214C	DESK	
001FCU030	FAN COIL UNIT	001		DUNHAM-BUSH		214B		
001FCU029	FAN COIL UNIT	001		DUNHAM-BUSH		214A		
001FCU028	FAN COIL UNIT	001		DUNHAM-BUSH		214		
001AHU002	AIR HANDLER	001	TWE120B300CA	TRANE	N3551JW5H	WEST MEZZ	10 TON	R22
001AHU004	AIR HANDLER	001		AMANA		EXERCISE	3 TON	R22
001AHU005	AIR HANDLER	001		AIRTHERM		200M		
001AHU006	AIR HANDLER	001	36BHW-4	AIRTHERM	NONE	206MA		
001AHU007	AIR HANDLER	001	L0309	AIRTHERM	32761001	216M	100% OA	
001FCU034	FAN COIL UNIT	001		DUNHAM-BUSH		216M		
001AHU009	AIR HANDLER	001	ALV-160	LASALLE	00270-A-001	PROJ RM 1	4 TON	
001AHU010	AIR HANDLER	001		CARRIER		PROJ RM 2		R22
001AHU011	AIR HANDLER	001	4QH060300	CARRIER	0489H01183	PROJ RM 2	5 TON	R22
001AHU012	AIR HANDLER	001	N2AHD10406C	YORK	MAX5032976	PROJ RM 2	2.5 TON	R22
001AHU013	AIR HANDLER	001	FDT260OHA1	MITSUBISHI HEAVY IND.	92690006B	WOODSHOP	2 TON	R22
001AHU015	AIR HANDLER	001	39ED2934083	CARRIER	4491T34083	WOODSHOP	55 TON	
001CHP001	CHILLED WATER PUMP	001		AMTROL		EAST ROOF		
001CHP002	CHILLED WATER PUMP	001		AMTROL		EAST ROOF		
001CHP003	CHILLED WATER PUMP	001	4360/1-1/2BF	ARMSTRONG	3-3/4 IMP. DIA.	WEST ROOF		
001CHP004	CHILLED WATER PUMP	001				PROJ RM 1		
001CUA001	COND. UNIT-AIR	001	UNREADABLE	AMANA	UNREADABLE	ROOF EAST	4 TON	R22
001CUA002	COND. UNIT-AIR	001	TTA120C300DA	TRANE	N3730YKAH	N. GROUNDS	10 TON	R22
001CUA004	COND. UNIT-AIR	001	5RCF42-10A	AMANA	UNREADABLE	ROOF B-14	3 TON	R22
001CUA005	COND. UNIT-AIR	001	38YH036500DL	CARRIER	2889E26274	N. OUTSIDE	3 TON	R22
001CUA006	COND. UNIT-AIR	001	38YH060500DL	CARRIER	2889E27258	N. OUTSIDE	5 TON	R22
001CUA007	COND. UNIT-AIR	001	E1HB030S064	YORK	MDXM161759	N. OUTSIDE	2.5 TON	R22
001CUA008	COND. UNIT-AIR	001	FDC260HA1	MITSUBISHI HEAVY IND.	82680050C	NW GROUNDS	2 TON	R22
001FCU001	FAN COIL UNIT	001		AIRTHERM		123M		
001FCU002	FAN COIL UNIT	001		AIRTHERM		119M		
001FCU003	FAN COIL UNIT	001		AIRTHERM		117M		
001FCU004	FAN COIL UNIT	001		AIRTHERM		119		
001FCU005	FAN COIL UNIT	001		AIRTHERM		117		
001AHU008	AIR HANDLER	001	LV-120	LASALLE	00270-A-002	PROJ RM 1	3 TON	

ATTACHMENT C.12-8 HVAC AND REFRIGERATION INVENTORY

EQUIPMENT NUMBER	EQUIPMENT NAME	BLDG #	MODEL	MANUFACTURER	SERIAL NUMBER	LOCATION	SIZE	FREON TYPE
001FCU022	FAN COIL UNIT	001	016A002	TRANE		208	200 CFM	
001FCU023	FAN COIL UNIT	001	D16A002	TRANE		208M	200 CFM	
001FCU024	FAN COIL UNIT	001		DUNHAM-BUSH		212B		
001FCU025	FAN COIL UNIT	001		DUNHAM-BUSH		212A		
001FCU026	FAN COIL UNIT	001		DUNHAM-BUSH		E. OF 212		
001FCU027	FAN COIL UNIT	001		DUNHAM-BUSH		211		
001FCU035	FAN COIL UNIT	001		DUNHAM-BUSH		216M-A		
001FCU036	FAN COIL UNIT	001		DUNHAM-BUSH		216M-B		
001FCU037	FAN COIL UNIT	001		DUNHAM-BUSH		216M-C		
001FCU038	FAN COIL UNIT	001		DUNHAM-BUSH		216M-D		
001FCU039	FAN COIL UNIT	001		DUNHAM-BUSH		216M-E		
001WAC001	WINDOW A/C	001		WHIRLPOOL		206		
001WAC010	WINDOW A/C	001	51QHB323-351	CARRIER	Q80033027	115M		
001WAC012	WINDOW A/C	001	51QF211-301	WINDOW A/C	032666	POT RM	1 TON	
001WAC013	WINDOW A/C	001	A3Q08F2B	FEDDERS	J61383362565	WOODSHOP		
001WCA001	CHILLER-AIR COOLED	001	CA2CS30	TSI	8-86-11525-2	E ROOF	22 TON	R22
001WCA003	CHILLER-AIR COOLED	001	CA2FS9	TSI	11525-1	W ROOF	7.9 TONS	R22
001WCA002	CHILLER-AIR COOLED	001	CA2CS30	TSI	8-86-11525-3	E ROOF	22 TON	R22
001WCA004	CHILLER-AIR COOLED	001	30AFS9	TSI	7-88-13275	PROJ RM 1	8 TON	R22
001WCA006	CHILLER-AIR COOLED	001	30G8055530AA1	CARRIER	4691F78426	E. OF B22	55 TON	R22
002AHU001	AIR HANDLER	002	TYPE L03B	TRANE	K79D56687	PENTHOUSE		
002AHU002	AIR HANDLER	002	TYPE M14B	TRANE	K79D56688	PENTHOUSE		
002AHU003	AIR HANDLER	002	M-21B	TRANE	K79F56689	BSMT MECH	VAV	
002AHU004	AIR HANDLER	002	V355R01RRAF	TRANE	K83B82152	CBR MECH	5 TON	R22
002AHU005	AIR HANDLER	002	60-BHW-4	MAGIC-AIRE	880504874	24	5 TON	
002AHU006	AIR HANDLER	002	60-BHW-6	MAGIC-AIRE	880404376	22	5 TON	
002AHU007	AIR HANDLER	002	60-BHW-6	MAGIC-AIRE	880404375	5	5 TON	
002AHU008	AIR HANDLER	002	DO DATA PLATE	NO NAME		5		
005FCU001	FAN COIL UNIT	005		TRANE		2ND FL NW	HEAT ONLY	
002CCU002	COMPUTER A/C	002	C2A1	SPACE COOLER	3670785	202A	1.5 TON	R22
002CCU003	COMPUTER A/C	002	SH-2W2	AIRFLOW	8608D142	24	1.5 TON	R22
002CCU004	COMPUTER A/C	002		AIRFLOW		24	1.5 TON	R22
002CHP001	CHILLED WATER PUMP	002	2BB 7-1/4 BF	WESTINGHOUSE B&G	926902	BSMT MECH		
002CHP002	CHILLED WATER PUMP	002	2BB 7-1/4 A-BF	B&G	??	BSMT MECH		
002CHP003	CHILLED WATER PUMP	002	15102BC9.5BF8	FOR MCQUAY CHILLER	1818788	BSMT MECH		

ATTACHMENT C.12-8 HVAC AND REFRIGERATION INVENTORY

EQUIPMENT NUMBER	EQUIPMENT NAME	BLDG #	MODEL	MANUFACTURER	SERIAL NUMBER	LOCATION	SIZE	FREON TYPE
002CHP004	CHILLED WATER PUMP	002	HK PUMP	B&G	0682/1413B	BSMT MECH		
002CHP005	CHILLED WATER PUMP	002	11/2GTV11/2	AMTROL	311702	ROOF	43.5@41.25	
002COM001	AIR COMPRESSOR	002	230-32	QUINCY	141928-1	PENTHOUSE		
002COM002	AIR COMPRESSOR	002	230-32	QUINCY	141919-1	PENTHOUSE		
002CTR001	COOLING TOWER	002	2412C	BAC	791254D	ROOF	135 TON	
002CUA001	COND. UNIT-AIR	002	TTA048C300A0	TRANE	L115UFABF	N. PK LOT	4 TON	R22
002CWP001	COND. WATER PUMP	002	2-1/2BB8BF	B&G	927075	ROOF	188 @ 60	
002CWP002	COND. WATER PUMP	002	2-1/2BB8BF	B&G	927074	ROOF	188 @ 60	
002FCU001	FAN COIL UNIT	002		TRANE		BSMT NW		
002FCU002	FAN COIL UNIT	002		TRANE		BSMT NW		
002FCU003	FAN COIL UNIT	002		TRANE		BSMT NE CL		
002FCU004	FAN COIL UNIT	002		TRANE		018B	TV STAND	
002FCU005	FAN COIL UNIT	002		TRANE		PHOTO LOBBY		
002FCU006	FAN COIL UNIT	002		TRANE		BMT STAIRWELL		
002FCU007	FAN COIL UNIT	002		TRANE		NW STAIRWELL		
002FCU008	FAN COIL UNIT	002		TRANE		104 N WALL		
002FCU009	FAN COIL UNIT	002		TRANE		CBR LOBBY		
002FCU010	FAN COIL UNIT	002		TRANE		CBR WEST		
002FCU011	FAN COIL UNIT	002		TRANE		CBR CENTER		
002FCU012	FAN COIL UNIT	002		TRANE		CBR CENTER		
002FCU013	FAN COIL UNIT	002		TRANE		CBR EAST		
002FCU015	FAN COIL UNIT	002		TRANE		108C	DESK	
002FCU014	FAN COIL UNIT	002		TRANE		108B		
002FCU016	FAN COIL UNIT	002		TRANE		108D		
002FCU017	FAN COIL UNIT	002		TRANE		2D LOBBY		
002FCU018	FAN COIL UNIT	002		TRANE		101A		
002FCU019	FAN COIL UNIT	002		TRANE		101		
002FCU020	FAN COIL UNIT	002		TRANE		105	DESK	
002FCU021	FAN COIL UNIT	002		TRANE		105B	DESK	
002FCU022	FAN COIL UNIT	002		TRANE		105A		
002FCU023	FAN COIL UNIT	002		TRANE		109	DESK	
002FCU024	FAN COIL UNIT	002		TRANE		113		
002FCU026	FAN COIL UNIT	002		TRANE		TAYLOR RM		
002FCU027	FAN COIL UNIT	002		TRANE		TAYLOR RM		
002FCU028	FAN COIL UNIT	002		TRANE		TAYLOR RM		

ATTACHMENT C.12-8 HVAC AND REFRIGERATION INVENTORY

EQUIPMENT NUMBER	EQUIPMENT NAME	BLDG #	MODEL	MANUFACTURER	SERIAL NUMBER	LOCATION	SIZE	FREON TYPE
002FCU029	FAN COIL UNIT	002		TRANE		TAYLOR RM		
002FCU030	FAN COIL UNIT	002		TRANE		TAYLOR RM		
002FCU031	FAN COIL UNIT	002		TRANE		200A J CLOSET		
002FCU032	FAN COIL UNIT	002		TRANE		202A		
002FCU033	FAN COIL UNIT	002		TRANE		202		
002FCU034	FAN COIL UNIT	002		TRANE		204		
002FCU035	FAN COIL UNIT	002		TRANE		204A	DESK	
002FCU036	FAN COIL UNIT	002		TRANE		206A	DESK	
002FCU037	FAN COIL UNIT	002		TRANE		206A		
002FCU038	FAN COIL UNIT	002		TRANE		206B	DESK	
002FCU039	FAN COIL UNIT	002		TRANE		210 WEST		
002FCU040	FAN COIL UNIT	002		TRANE		210 EAST		
002FCU041	FAN COIL UNIT	002		TRANE		201A		
002FCU042	FAN COIL UNIT	002		TRANE		203A	DESK	
002FCU043	FAN COIL UNIT	002		TRANE		203B		
002FCU044	FAN COIL UNIT	002		TRANE		203		
002FCU045	FAN COIL UNIT	002		TRANE		205A	DESK	
002FCU046	FAN COIL UNIT	002		TRANE		207		
002FCU047	FAN COIL UNIT	002		TRANE		209A		
002FCU049	FAN COIL UNIT	002		TRANE		209C		
002FCU048	FAN COIL UNIT	002		TRANE		209B		
002FCU050	FAN COIL UNIT	002		TRANE		211 EAST		
002FCU051	FAN COIL UNIT	002		TRANE		211 WEST		
002FCU052	FAN COIL UNIT	002		TRANE		304		
002FCU053	FAN COIL UNIT	002		TRANE		306A		
002FCU054	FAN COIL UNIT	002		TRANE		306B		
002FCU055	FAN COIL UNIT	002		TRANE		314A3		
002FCU056	FAN COIL UNIT	002		TRANE		314B		
002FCU057	FAN COIL UNIT	002		TRANE		314C		
002FCU058	FAN COIL UNIT	002		TRANE		314A2		
002FCU059	FAN COIL UNIT	002		TRANE		314A1		
002FCU060	FAN COIL UNIT	002	LB12A003	TRANE	593H-38747	314D EAST	DESK	
002FCU061	FAN COIL UNIT	002	B12A003	TRANE	579C-04350	305A		
002FCU062	FAN COIL UNIT	002		TRANE		305	DESK	
002FCU063	FAN COIL UNIT	002		TRANE		307C		

ATTACHMENT C.12-8 HVAC AND REFRIGERATION INVENTORY

EQUIPMENT NUMBER	EQUIPMENT NAME	BLDG #	MODEL	MANUFACTURER	SERIAL NUMBER	LOCATION	SIZE	FREON TYPE
002FCU064	FAN COIL UNIT	002		TRANE		307A		
002FCU066	FAN COIL UNIT	002		TRANE		321		
002FCU067	FAN COIL UNIT	002		TRANE		319A	DESK	
002FCU068	FAN COIL UNIT	002		TRANE		323		
002FCU070	FAN COIL UNIT	002		TRANE		314 WEST		
002FCU071	FAN COIL UNIT	002		TRANE		314 EAST		
005FCU002	FAN COIL UNIT	005		TRANE		2ND FL NW		
002HWP001	HEATING PUMP	002	2-1/2 BB 8-1/4BF	B&G	926882	BSMT MECH		
002PUW001	PKG UNIT-WATER	002	E60W25B	YORK	GM-353298	5	5 TON	R22
002PUW002	PKG UNIT-WATER	002	WMH19AMGR	MCQUAY	7XF1048000	312	1.6 TONS	R22
002RAD001	AIR DRYER	002	8010	HANKISON		PENTHOUSE	10 SCFM	
002RAF002	RETURN AIR FAN	002	24A-9-1HCL	TRANE	L79E02393	PENTHOUSE		
002RAF003	RETURN AIR FAN	002	????	TRANE		BSMT MECH		
002WCA001	CHILLER-AIR COOLED	002	30A0CS25	TSI	5-88-130-70	ROOF	20 TON	R22
002WCW001	CHILLER-WATER COOLED	002	HE250	TRANE	L4J696851	BSMT MECH	50 TON	R22
002WCW002	CHILLER-WATER COOLED	002	PB-055-W0B	WESTINGHOUSE	D-19823	BSMT MECH	50 TON	R22
002WCW003	CHILLER-WATER COOLED	002	WHR050D-W	MCQUAY	5XA0177400	BSMT	50 TON	R22
002ZNP001	ZONE PUMP	002		B&G		PENTHOUSE		
002ZNP002	ZONE PUMP	002		B&G	PART#97185M88	PENTHOUSE		
002ZNP003	ZONE PUMP	002		B&G	PART#M80062	BSMT MECH		
003COM002	AIR COMPRESSOR	003	GH510D60	ITT	124710	BSMT CAGE		
002ZNP004	ZONE PUMP	002	1-1/2AB 7BF	B&G	977545	BSMT MECH		
002ZNP005	ZONE PUMP	002	ZAB6-7/8BF	B&G	926089	BSMT MECH		
002ZNP006	ZONE PUMP	002	ZAB6-7/8BF	B&G	826079	BSMT MECH		
003AHU001	AIR HANDLER	003	MS24C3	FRIEDRICH	JCFJ022716	10	2 TON	R22
003AHU002	AIR HANDLER	003	B10-51-2P	LENNOX		150	4 TON	R22
003AHU004	AIR HANDLER	003	TYPE CCDB10BNEC	TRANE	K84C19673	ABOVE E. ENT	5HP	
003AHU005	AIR HANDLER	003	H4A1R01LLAK	TRANE	K84C19674	ABOVE R128	5HP	
003CCU001	COMPUTER A/C	003	42AP	BLAZER	79-7229-1	120	4 TON	R22
003CCU002	COMPUTER A/C	003	MM20W	LIEBERT	28693	306A	1.75 TON	R22
003CCU003	COMPUTER A/C	003	SH-2W2	AIRFLOW SKYHOOK	87045058	321	1.5 TON	R22
003CCU004	COMPUTER A/C	003	SH-2W2	AIRFLOW SKYHOOK	87652661	220A	1.5 TON	R22
003CHP001	CHILLED WATER PUMP	003	3BB91/4BF	B&G	1238854	BSMT CAGE	10HP 415GPM	
003CHP002	CHILLED WATER PUMP	003	3BB91/4BF	B&G	1238855	BSMT CAGE	10HP 415GPM	
003COM001	AIR COMPRESSOR	003	GH510D60	ITT	124711	BSMT CAGE		

ATTACHMENT C.12-8 HVAC AND REFRIGERATION INVENTORY

EQUIPMENT NUMBER	EQUIPMENT NAME	BLDG #	MODEL	MANUFACTURER	SERIAL NUMBER	LOCATION	SIZE	FREON TYPE
003CTR001	COOLING TOWER	003	FXT-160	BAC	835258D	ROOF	160 TON	
003CTR002	COOLING TOWER	003	VT0-052-JC	BAC	94100942	REAR/BLDG	50 TON	
003CUA001	COND. UNIT-AIR	003	MR24C3B	FRIEDRICH	JCKS07179	REAR EXIT	2 TON	R22
003CUA002	COND. UNIT-AIR	003	HS9-461-7P	LENNOX	5161C09507	N. OUTSIDE	2.5-3.0 TON	R22
003CWP002	COND. WATER PUMP	003	4AC63/4BG	B&G	1238367	BSMT CAGE	480GPM	
003CWP003	COND. WATER PUMP	003	2BC-8-1/8BF	B&G	1202026	BSMT CAGE	9-1/2" IMPELLER	
003FCU001	FAN COIL UNIT	003		TRANE		102		
003FCU002	FAN COIL UNIT	003		TRANE		104		
003FCU003	FAN COIL UNIT	003		TRANE		104		
003FCU004	FAN COIL UNIT	003		TRANE		108		
003FCU005	FAN COIL UNIT	003		TRANE		108		
003FCU006	FAN COIL UNIT	003		TRANE		110		
003FCU007	FAN COIL UNIT	003		TRANE		110		
003FCU015	FAN COIL UNIT	003		TRANE		134		
003FCU008	FAN COIL UNIT	003		TRANE		110		
003FCU010	FAN COIL UNIT	003		TRANE		110		
003FCU011	FAN COIL UNIT	003		TRANE		110		
003FCU012	FAN COIL UNIT	003		TRANE		110		
003FCU013	FAN COIL UNIT	003		TRANE		134		
003FCU014	FAN COIL UNIT	003		TRANE		134		
003FCU016	FAN COIL UNIT	003		TRANE		138		
003FCU017	FAN COIL UNIT	003		TRANE		138		
003FCU009	FAN COIL UNIT	003		TRANE		110		
003FCU018	FAN COIL UNIT	003		TRANE		142		
003FCU019	FAN COIL UNIT	003		TRANE		146		
003FCU020	FAN COIL UNIT	003		TRANE		146		
003FCU021	FAN COIL UNIT	003		TRANE		150		
003FCU022	FAN COIL UNIT	003		TRANE		150		
003FCU023	FAN COIL UNIT	003		TRANE		150		
003FCU024	FAN COIL UNIT	003		TRANE		150		
003FCU025	FAN COIL UNIT	003		TRANE		150		
003FCU027	FAN COIL UNIT	003		TRANE		150		
003FCU026	FAN COIL UNIT	003		TRANE		150		
003FCU028	FAN COIL UNIT	003		TRANE		N. ENTRANCE		
003FCU029	FAN COIL UNIT	003		TRANE		101		

ATTACHMENT C.12-8 HVAC AND REFRIGERATION INVENTORY

EQUIPMENT NUMBER	EQUIPMENT NAME	BLDG #	MODEL	MANUFACTURER	SERIAL NUMBER	LOCATION	SIZE	FREON TYPE
003FCU030	FAN COIL UNIT	003		TRANE		101		
003FCU031	FAN COIL UNIT	003		TRANE		125		
003FCU032	FAN COIL UNIT	003		TRANE		125		
003FCU033	FAN COIL UNIT	003		TRANE		129		
003FCU034	FAN COIL UNIT	003		TRANE		129		
003FCU035	FAN COIL UNIT	003		TRANE		135		
003FCU036	FAN COIL UNIT	003		TRANE		135		
003FCU037	FAN COIL UNIT	003		TRANE		139		
003FCU039	FAN COIL UNIT	003		TRANE		141		
003FCU040	FAN COIL UNIT	003		TRANE		143		
003FCU041	FAN COIL UNIT	003		TRANE		149		
003FCU042	FAN COIL UNIT	003		TRANE		142		
003FCU043	FAN COIL UNIT	003		TRANE		151		
003FCU044	FAN COIL UNIT	003		TRANE		S. ENTRANCE		
003FCU045	FAN COIL UNIT	003		TRANE		157		
003FCU046	FAN COIL UNIT	003		TRANE		157		
003FCU047	FAN COIL UNIT	003		TRANE		157		
003FCU048	FAN COIL UNIT	003		TRANE		157		
003FCU049	FAN COIL UNIT	003		TRANE		165		
003FCU050	FAN COIL UNIT	003		TRANE		E. ENTRANCE		
003FCU051	FAN COIL UNIT	003		TRANE		150		
003FCU052	FAN COIL UNIT	003		TRANE		100M		
003FCU053	FAN COIL UNIT	003		TRANE		100M		
003FCU054	FAN COIL UNIT	003		CARRIER		100M		
003FCU055	FAN COIL UNIT	003		CARRIER		100M		
003FCU056	FAN COIL UNIT	003		CARRIER		100M		
003FCU057	FAN COIL UNIT	003		CARRIER		100M		
003FCU058	FAN COIL UNIT	003		CARRIER		100M		
003FCU059	FAN COIL UNIT	003		TRANE		110M		
003FCU060	FAN COIL UNIT	003		TRANE		112M		
003FCU061	FAN COIL UNIT	003		TRANE		114M		
003FCU062	FAN COIL UNIT	003		TRANE		114M		
003FCU063	FAN COIL UNIT	003		TRANE		116M		
003FCU064	FAN COIL UNIT	003		TRANE		116M		
003FCU065	FAN COIL UNIT	003		TRANE		116M		

ATTACHMENT C.12-8 HVAC AND REFRIGERATION INVENTORY

EQUIPMENT NUMBER	EQUIPMENT NAME	BLDG #	MODEL	MANUFACTURER	SERIAL NUMBER	LOCATION	SIZE	FREON TYPE
003FCU066	FAN COIL UNIT	003		TRANE		116M		
003FCU067	FAN COIL UNIT	003		TRANE		116M		
003FCU068	FAN COIL UNIT	003		CARRIER		100M		
003FCU069	FAN COIL UNIT	003		CARRIER		100M		
003FCU070	FAN COIL UNIT	003		TRANE		153M		
003FCU071	FAN COIL UNIT	003		TRANE		165M		
003FCU072	FAN COIL UNIT	003		TRANE		208		
003FCU073	FAN COIL UNIT	003		TRANE		208		
003FCU074	FAN COIL UNIT	003		TRANE		208		
003FCU075	FAN COIL UNIT	003		TRANE		208		
003FCU076	FAN COIL UNIT	003		TRANE		214		
003FCU077	FAN COIL UNIT	003		TRANE		214		
003FCU078	FAN COIL UNIT	003		TRANE		214		
003FCU079	FAN COIL UNIT	003		TRANE		214		
003FCU080	FAN COIL UNIT	003		TRANE		214		
003FCU081	FAN COIL UNIT	003		TRANE		214		
003FCU082	FAN COIL UNIT	003		TRANE		220		
003FCU083	FAN COIL UNIT	003		TRANE		220		
003FCU084	FAN COIL UNIT	003		TRANE		220		
003FCU085	FAN COIL UNIT	003		TRANE		220		
003FCU086	FAN COIL UNIT	003		TRANE		253		
003FCU087	FAN COIL UNIT	003		TRANE		230		
003FCU088	FAN COIL UNIT	003		TRANE		230		
003FCU089	FAN COIL UNIT	003		TRANE		230		
003FCU090	FAN COIL UNIT	003		TRANE		232		
003FCU091	FAN COIL UNIT	003		TRANE		232		
003FCU092	FAN COIL UNIT	003		TRANE		232		
003FCU093	FAN COIL UNIT	003		TRANE		232		
003FCU094	FAN COIL UNIT	003		TRANE		238		
003FCU095	FAN COIL UNIT	003		TRANE		238		
003FCU096	FAN COIL UNIT	003		TRANE		238		
003FCU097	FAN COIL UNIT	003		TRANE		242		
003FCU098	FAN COIL UNIT	003		TRANE		242		
003FCU099	FAN COIL UNIT	003		TRANE		242		
003FCU100	FAN COIL UNIT	003		TRANE		246		

ATTACHMENT C.12-8 HVAC AND REFRIGERATION INVENTORY

EQUIPMENT NUMBER	EQUIPMENT NAME	BLDG #	MODEL	MANUFACTURER	SERIAL NUMBER	LOCATION	SIZE	FREON TYPE
003FCU101	FAN COIL UNIT	003		TRANE		246		
003FCU102	FAN COIL UNIT	003		TRANE		246		
003FCU103	FAN COIL UNIT	003		TRANE		248		
003FCU104	FAN COIL UNIT	003		TRANE		248		
003FCU105	FAN COIL UNIT	003		TRANE		248		
003FCU106	FAN COIL UNIT	003		TRANE		248		
003FCU107	FAN COIL UNIT	003		TRANE		248		
003FCU108	FAN COIL UNIT	003		TRANE		248		
003FCU109	FAN COIL UNIT	003		TRANE		248		
003FCU110	FAN COIL UNIT	003		TRANE		248		
003FCU111	FAN COIL UNIT	003		TRANE		248		
003FCU112	FAN COIL UNIT	003		TRANE		260		
003FCU113	FAN COIL UNIT	003		TRANE		260		
003FCU114	FAN COIL UNIT	003		TRANE		260		
003FCU115	FAN COIL UNIT	003		TRANE		207		
003FCU116	FAN COIL UNIT	003		TRANE		207		
003FCU117	FAN COIL UNIT	003		TRANE		207		
003FCU118	FAN COIL UNIT	003		TRANE		209		
003FCU119	FAN COIL UNIT	003		TRANE		209		
003FCU120	FAN COIL UNIT	003		TRANE		209		
003FCU121	FAN COIL UNIT	003		TRANE		209		
003FCU122	FAN COIL UNIT	003		TRANE		213		
003FCU123	FAN COIL UNIT	003		TRANE		215		
003FCU124	FAN COIL UNIT	003		TRANE		219		
003FCU125	FAN COIL UNIT	003		TRANE		221		
003FCU126	FAN COIL UNIT	003		TRANE		221		
003FCU127	FAN COIL UNIT	003		TRANE		219		
003FCU128	FAN COIL UNIT	003		TRANE		229		
003FCU129	FAN COIL UNIT	003		TRANE		229		
003FCU130	FAN COIL UNIT	003		TRANE		229		
003FCU131	FAN COIL UNIT	003		TRANE		231		
003FCU132	FAN COIL UNIT	003		TRANE		233		
003FCU133	FAN COIL UNIT	003		TRANE		235		
003FCU134	FAN COIL UNIT	003		TRANE		237		
003FCU135	FAN COIL UNIT	003		TRANE		241		

ATTACHMENT C.12-8 HVAC AND REFRIGERATION INVENTORY

EQUIPMENT NUMBER	EQUIPMENT NAME	BLDG #	MODEL	MANUFACTURER	SERIAL NUMBER	LOCATION	SIZE	FREON TYPE
003FCU136	FAN COIL UNIT	003		TRANE		241		
003FCU138	FAN COIL UNIT	003		TRANE		243		
003FCU139	FAN COIL UNIT	003		TRANE		243		
003FCU140	FAN COIL UNIT	003		TRANE		247		
003FCU141	FAN COIL UNIT	003		TRANE		253		
003FCU142	FAN COIL UNIT	003		TRANE		253		
003FCU143	FAN COIL UNIT	003		TRANE		253		
003FCU137	FAN COIL UNIT	003		TRANE		243		
003FCU144	FAN COIL UNIT	003		TRANE		253		
003FCU145	FAN COIL UNIT	003		TRANE		253		
003FCU146	FAN COIL UNIT	003		TRANE		253		
003FCU147	FAN COIL UNIT	003		TRANE		253		
003FCU148	FAN COIL UNIT	003		TRANE		253		
003FCU149	FAN COIL UNIT	003		TRANE		253		
003FCU150	FAN COIL UNIT	003		TRANE		263		
003FCU151	FAN COIL UNIT	003		TRANE		263		
003FCU152	FAN COIL UNIT	003		TRANE		306		
003FCU153	FAN COIL UNIT	003		TRANE		306		
003FCU154	FAN COIL UNIT	003		TRANE		306		
003FCU155	FAN COIL UNIT	003		TRANE		310		
003FCU156	FAN COIL UNIT	003		TRANE		310		
003FCU157	FAN COIL UNIT	003		TRANE		310		
003FCU158	FAN COIL UNIT	003		TRANE		314		
003FCU038	FAN COIL UNIT	003		TRANE		139		
003FCU160	FAN COIL UNIT	003		TRANE		316		
003FCU161	FAN COIL UNIT	003		TRANE		316		
003FCU162	FAN COIL UNIT	003		AIRTHERM		318		
003FCU163	FAN COIL UNIT	003		TRANE		318		
003FCU164	FAN COIL UNIT	003		TRANE		318		
003FCU165	FAN COIL UNIT	003		TRANE		324		
003FCU159	FAN COIL UNIT	003		TRANE		316		
003FCU166	FAN COIL UNIT	003		TRANE		324		
003FCU167	FAN COIL UNIT	003		TRANE		324		
003FCU168	FAN COIL UNIT	003		TRANE		338		
003FCU169	FAN COIL UNIT	003		TRANE		338		

ATTACHMENT C.12-8 HVAC AND REFRIGERATION INVENTORY

EQUIPMENT NUMBER	EQUIPMENT NAME	BLDG #	MODEL	MANUFACTURER	SERIAL NUMBER	LOCATION	SIZE	FREON TYPE
003FCU170	FAN COIL UNIT	003		TRANE		338		
003FCU171	FAN COIL UNIT	003		TRANE		338		
003FCU172	FAN COIL UNIT	003		TRANE		338		
003FCU173	FAN COIL UNIT	003		TRANE		338		
003FCU174	FAN COIL UNIT	003		TRANE		338		
003FCU175	FAN COIL UNIT	003		TRANE		338		
003FCU176	FAN COIL UNIT	003		TRANE		338		
003FCU177	FAN COIL UNIT	003		TRANE		338		
003FCU178	FAN COIL UNIT	003		TRANE		338		
003FCU179	FAN COIL UNIT	003		TRANE		338		
003FCU180	FAN COIL UNIT	003		TRANE		338		
003FCU181	FAN COIL UNIT	003		TRANE		342		
003FCU182	FAN COIL UNIT	003		TRANE		342		
003FCU183	FAN COIL UNIT	003		TRANE		342		
003FCU184	FAN COIL UNIT	003		TRANE		346		
003FCU185	FAN COIL UNIT	003		TRANE		346		
003FCU186	FAN COIL UNIT	003		TRANE		346		
003FCU187	FAN COIL UNIT	003		TRANE		352		
003FCU188	FAN COIL UNIT	003		TRANE		352		
003FCU190	FAN COIL UNIT	003		TRANE		354		
003FCU189	FAN COIL UNIT	003		TRANE		352		
003FCU191	FAN COIL UNIT	003		TRANE		354		
003FCU192	FAN COIL UNIT	003		TRANE		354		
003FCU193	FAN COIL UNIT	003		TRANE		358		
003FCU194	FAN COIL UNIT	003		TRANE		358		
003FCU195	FAN COIL UNIT	003		TRANE		358		
003FCU196	FAN COIL UNIT	003		TRANE		358		
003FCU197	FAN COIL UNIT	003		TRANE		362		
003FCU199	FAN COIL UNIT	003		TRANE		362		
003FCU198	FAN COIL UNIT	003		TRANE		362		
003FCU200	FAN COIL UNIT	003		TRANE		305		
003FCU201	FAN COIL UNIT	003		TRANE		305		
003FCU202	FAN COIL UNIT	003		TRANE		305		
003FCU203	FAN COIL UNIT	003		TRANE		307		
003FCU205	FAN COIL UNIT	003		TRANE		311		

ATTACHMENT C.12-8 HVAC AND REFRIGERATION INVENTORY

EQUIPMENT NUMBER	EQUIPMENT NAME	BLDG #	MODEL	MANUFACTURER	SERIAL NUMBER	LOCATION	SIZE	FREON TYPE
003FCU206	FAN COIL UNIT	003		TRANE		313		
003FCU207	FAN COIL UNIT	003		TRANE		315		
003FCU208	FAN COIL UNIT	003		TRANE		317		
003FCU209	FAN COIL UNIT	003		TRANE		319		
003FCU210	FAN COIL UNIT	003		TRANE		321		
003FCU204	FAN COIL UNIT	003		TRANE		309		
003FCU211	FAN COIL UNIT	003		TRANE		323		
003FCU212	FAN COIL UNIT	003		TRANE		325		
003FCU213	FAN COIL UNIT	003		TRANE		327		
003FCU214	FAN COIL UNIT	003		TRANE		329		
003FCU215	FAN COIL UNIT	003		TRANE		331		
003FCU216	FAN COIL UNIT	003		TRANE		333		
003FCU217	FAN COIL UNIT	003		TRANE		335		
003FCU218	FAN COIL UNIT	003		TRANE		337		
003FCU219	FAN COIL UNIT	003		TRANE		339		
003FCU220	FAN COIL UNIT	003		TRANE		341		
003FCU221	FAN COIL UNIT	003		TRANE		343		
003FCU222	FAN COIL UNIT	003		TRANE		347		
003FCU223	FAN COIL UNIT	003		TRANE		349		
003FCU224	FAN COIL UNIT	003		TRANE		355		
003FCU226	FAN COIL UNIT	003		TRANE		355		
003FCU225	FAN COIL UNIT	003		TRANE		355		
003FCU227	FAN COIL UNIT	003		TRANE		359		
003FCU228	FAN COIL UNIT	003		TRANE		359		
003FCU229	FAN COIL UNIT	003		TRANE		359		
003FCU230	FAN COIL UNIT	003		TRANE		361		
003FCU231	FAN COIL UNIT	003		TRANE		367		
003FCU232	FAN COIL UNIT	003		TRANE		367		
003FCU233	FAN COIL UNIT	003		TRANE		367	300 CFM	
003FCU234	FAN COIL UNIT	003		TRANE		369	300 CFM	
003FCU237	FAN COIL UNIT	003	RE36A002	TRANE	S91A-01117	224A	200 CFM	
003FCU238	FAN COIL UNIT	003	RE36A002	TRANE	S91A-01118	224	200 CFM	
031PUA001	PKG UNIT-AIR	031	50HS-048-301AA	CARRIER	2095G1385	NW GRD	4 TON	R22
003HWP001	HEATING PUMP	003	21/2AB63/4BF	B&G	1238331	BSMT CAGE	175 @ 38	
003HWP002	HEATING PUMP	003	21/2AB63/4BF	B&G	1238332	BSMT CAGE	175 @ 38	

ATTACHMENT C.12-8 HVAC AND REFRIGERATION INVENTORY

EQUIPMENT NUMBER	EQUIPMENT NAME	BLDG #	MODEL	MANUFACTURER	SERIAL NUMBER	LOCATION	SIZE	FREON TYPE
003PNP001	PNEUMATIC PANEL	003		ROBERTSHAW		BSMT CAGE		
003PUW001	PKG UNIT-WATER	003	FCV024BMGR	MCQUAY	7ZF0775801	R200 MEN'S	2 TON	R22
003PUW003	PKG UNIT-WATER	003	C2ED090A46A	YORK	NBAM106798	10	7.5 TON	R22
003PUW004	PKG UNIT-WATER	003	50HQAD19Z MC311DA	CARRIER	1299V69560	ABOVE R124	1.5 TON	R22
003PUW006	PKG UNIT-WATER	003	C2ED060A25A	YORK	NGEM078740	R39	5 TON	R22
003PUW007	PKG UNIT-WATER	003	HEH34-10	FLORIDA HT PUMP	VE8597	336	2.5 TON	R22
003PUW008	PKG UNIT-WATER	003	GAAAACCW062100	AM. AIR FILTER	90BTCW00292	R28 BSMT	.5 TON	R22
003PUW009	PKG UNIT-WATER	003	GAAAADCW122100	AM. AIR FILTER	90FTCW01679	R25 BSMT	1 TON	R22
003PUW010	PKG UNIT-WATER	003	CWG019BMGR	SNYDER GENERAL	7XM0387200	149A	1.5 TONS	R22
003PUW011	PKG UNIT-WATER	003	CWH007BMGR	SNYDER GENERAL	7XL0493500	149B	.5 TON COOL	R22
003PUW012	PKG UNIT-WATER	003	CCT-3W2-UD	AIRFLOW	011ED091	338	3 TON	R22
003PUW013	PKG UNIT-WATER	003	CCH/HWH012CMGS	MCQUAY	7YL0429601	224	1 TON	R22
003RAD001	AIR DRYER	003	8010	HANKISON	0302A-1	BSMT CAGE	10 SCFM	
003RAF001	RETURN AIR FAN	003	VIBAT5	CARNES	5877101	ABOVE E. ENT		
003RCA001	REF. CONDENSER-AIR	003	FCA 5 78	LARKINS	26846	REAR EXIT	5 TON	R22
003WAC001	WINDOW A/C	003	WV775HE	HEAT CONTROLLER	28709-213756	BSMT RM 32	7,000 BTU	
003WAC002	WINDOW A/C	003	AEB12E7HB	FEDDERS	EM926807	208C	1 TON	
003WCW001	CHILLER-WATER COOLED	003	CGWBC803RANJJ4	TRANE	L83L15337	BSMT	80 TON	R22
003WCW002	CHILLER-WATER COOLED	003	CGWBC803HANJJ4	TRANE	L83L15336	BSMT	80 TONS	R22
003ZNP001	ZONE PUMP	003	2BC75/8BF	B&G	1202025	BSMT CAGE	155 @ 50 FTHD	
003ZNP002	ZONE PUMP	003	2BC75/8BF	B&G	1202024	BSMT CAGE	155 @ 50 FTHD	
003ZNP003	ZONE PUMP	003	2BC75/8BF	B&G	1202023	BSMT CAGE	155 @ 50 FTHD	
003ZNP004	ZONE PUMP	003	S15	ARMSTRONG	8409R	ABOVE R128	1/12HP	
004AHU002	AIR HANDLER	004		CARRIER		4E/RM 102	3 TON	R22
004AHU004	AIR HANDLER	004		LENNOX	5480J02054	4E/RM 205	15 TON	R22
004CCU003	COMPUTER A/C	004	WC-2	BCS INDUSTRIES	2412886	4E/RM 109	1.5 TON	R22
004CCU004	COMPUTER A/C	004	WC-2	BCS INDUSTRIES	2412986	4E/RM 109	1.5 TON	R22
004CUA002	COND. UNIT-AIR	004	38GR005400	CARRIER	M374958	4E/S.GRD	5 TON	R22
004CUA004	COND. UNIT-AIR	004	H37-1853V-2R	LENNOX	5481C00137	4E/E.GRD	15 TON	R22
004PUA001	PKG UNIT-AIR	004	AR0024B	INTERTHERM	A000705620	4W/CARRIAG	2 TON	R22
004PUA002	PKG UNIT-AIR	004	AR0024B	INTERTHERM	A000705621	4W/CARRIAG	2 TON	R22
004PUA003	PKG UNIT-AIR	004	AR0024B	INTERTHERM	A000705533	4E/CARRIAG	2 TON	R22
004PUA004	PKG UNIT-AIR	004	AR0024B	INTERTHERM	A000705628	4E/CARRIAG	2 TON	R22
004PUA006	PKG UNIT-AIR	004	DISV300E04017B	YORK	NFAM134650	4E/S.MEZZ	25 TON	R22
004PUA007	PKG UNIT-AIR	004	TCD060C300AA	TRANE	G311421350	4E/RM 101	5 TON	R22

ATTACHMENT C.12-8 HVAC AND REFRIGERATION INVENTORY

EQUIPMENT NUMBER	EQUIPMENT NAME	BLDG #	MODEL	MANUFACTURER	SERIAL NUMBER	LOCATION	SIZE	FREON TYPE
004WAC001	WINDOW A/C	004	YS13J33	FRIEDRICH	JEGS06300	4E/RM 102M	1.1 TON	
004WAC002	WINDOW A/C	004	AD923DTX1	FEDDERS	AT233778	4W/WFR		
004WAC003	WINDOW A/C	004	AD923DTX1	GENERAL ELECTRIC	AT233778	4W/CARR 3	2 TON	
004WAC004	WINDOW A/C	004	106.9710536	KENMORE	QF0403201	J-BSN LAB	2 TON	
004WAC006	WINDOW A/C	004	AD923DTX1	GENERAL ELECTRIC	HR241781	4W/CARR 3	2 TON	
004WAC007	WINDOW A/C	004	AGJC509AX53	GENERAL ELECTRIC	TP523285	J-BSN LAB	1.3 TON	
004WAC008	WINDOW A/C	004	YS13J33	FRIEDRICH	JEGS06301	4E/RM 102M	1.1 TON	
004WAC010	WINDOW A/C	004	SS08D10	FRIEDRICH	404836	4E/CNTRLRM		
004WAC011	WINDOW A/C	004	5CC62	EMERSON	19D210608	4E/PENTHOU		
004WAC012	WINDOW A/C	004	25-70320	COLDSPOT	0503826697	4E/PMM		
004WAC015	WINDOW A/C	004	L0510KRH21	CHRYSLER	BP813197	4W/??	1.75 TON	
004WAC017	WINDOW A/C	004	R1DH021A06	YORK	NP023020	4E/RM 115	.8 TON	
004WAC018	WINDOW A/C	004	51QFA210	CARRIER	W126614	4E/MDLSHOP	2 TON	
004WAC019	WINDOW A/C	004	12C3W	AMANA	9403260472	4E/RM 136		
004WAC020	WINDOW A/C	004	R3WC017A06	YORK	MP059503	4E/RM 115	1.5 TON	
004WAC021	WINDOW A/C	004	A1238N	FRIGIDAIRE	21Y52916	4W/WFR	1 TON	
004WAC022	WINDOW A/C	004	ACT12F7EE	FEDDERS	N/A	4W/WFR	1 TON	
004WAC025	WINDOW A/C	004	A2338R	FRIGIDAIRE	23Y22777	4E/CONF RM	2 TON	
004WAC026	WINDOW A/C	004	ASK24E7HK	FEDDERS	FW3200611705	4W/WFR	2 TON	
004WAC027	WINDOW A/C	004	YS09G10	FRIEDRICH	84MS09786	4E/RM 104B	.75 TON	
004WAC028	WINDOW A/C	004	SL24H30	FRIEDRICH	87K210405	4E/RM 137	2 TON	
004WAC029	WINDOW A/C	004	WAL123Y1A2	WHITE WESTINGHOUSE	JK81827300	4E/RM 137M		
004WAC030	WINDOW A/C	004	2M14H10A	FRIEDRICH	90FS02296	4E/RM 137M	1.1 TON	
004WAC031	WINDOW A/C	004	FEDDERS	FEDDERS	JX395243	4E/RM 21		
004WAC032	WINDOW A/C	004	AH094H2T1	WH. WESTINGHOUSE	AHA119425	TOOL ROOM	.75 TON	
004WAC033	WINDOW A/C	004	WV363HES	COMFORT-AIRE	28904178886	4W/WFR	3 TON	
005AHU001	AIR HANDLER	005	BHSC 3B	TRANE	1H-05424	E. SHOP	2.5 TON	R22
005CUA001	COND. UNIT-AIR	005		TRANE		ROOF	2.5 TON	R22
006WAC001	WINDOW A/C	006	YS09D10	FRIEDRICH	401312	SUPV OFFICE	.75 TON	
006WAC002	WINDOW A/C	006	AHF-P50-20	WHIRLPOOL	A04011441	S.E. OFFICE	.4 TON	
006WAC003	WINDOW A/C	006	51QFG318351	CARRIER	62U710906	E. WALL.	1.5 TON	
007AHU001	AIR HANDLER	007	FB4ANF030000ACAA	CARRIER	1894A02674	CONF RM	2 TON	R22
007AHU002	AIR HANDLER	007	SF24EAH-5A	COMFORTAIRE	18202132151	152	2 TON	R22
007AHU003	AIR HANDLER	007	B-DHU 331000	CLIMATE CONTROL	0564010-L40-0357	152B	3 TON	R22
007AHU004	AIR HANDLER	007	B-DHU 331000	CLIMATE CONTROL	0564010-L40-0355	153	3 TON	R22

ATTACHMENT C.12-8 HVAC AND REFRIGERATION INVENTORY

EQUIPMENT NUMBER	EQUIPMENT NAME	BLDG #	MODEL	MANUFACTURER	SERIAL NUMBER	LOCATION	SIZE	FREON TYPE
007AHU005	AIR HANDLER	007	KHS1822	SANYO	0014023	222	1.5 TON	R22
007AHU006	AIR HANDLER	007	K2412W	SANYO	0080904	118	2 TON	R22
007CUA001	COND. UNIT-AIR	007	38YRA024300	CARRIER	1894E259	GRD. SW	2 TON	R22
007CUA002	COND. UNIT-AIR	007	HICD024-A06A	YORK	MGLM110332	SUB ROOF	2 TON	R22
007CUA003	COND. UNIT-AIR	007		CLIMATE CONTROL		ROOF N.	3 TON	R22
007CUA004	COND. UNIT-AIR	007		CLIMATE CONTROL		ROOF S.	3 TON	R22
007CUA005	COND. UNIT-AIR	007	CH1822	SANYO	0016323	ROOF/222	1.5 TON	R22
007CUA006	COND. UNIT-AIR	007	C2412	SANYO	0108204	OUT/134	2 TON	R22
007PUA001	PKG UNIT-AIR	007	R250C000017	CLIMATE CONTROL	455052M080001	EAST	25 TON	R22
007PUA002	PKG UNIT-AIR	007	R300C000017	CLIMATE CONTROL	NOT VISIBLE	WEST	30 TON	R22
007PUA003	PKG UNIT-AIR	007		CLIMATE CONTROL		300	2.5 TON	R22
008AHU001	AIR HANDLER	008	KS1211W	SANYO	0054433	124	1 TON	R22
008CUA001	COND. UNIT-AIR	008	CL1211	SANYO	0004422	WEST/OUTSIDE	1 TON	R22
008PUA001	PKG UNIT-AIR	008	SAHA25060G	TRANE	B79E00937	ROOF	25 TON	R22
008PUA002	PKG UNIT-AIR	008	50DJ006320-GA	CARRIER	2490G78686	ADDITIONAL	5 TON	R22
008WAC001	WINDOW A/C	008	KS10H10	FRIEDRICH	JBGS03140	227SE.WALL	10000 BTU	
008WAC002	WINDOW A/C	008	RC90-2A	YORK	C0513914	104A	.75 TON	
008WAC003	WINDOW A/C	008	WW81	COMFORTAIRE	28910291961	104/W.WALL	.66 TON	
009AHU001	AIR HANDLER	009	40A0030310	CARRIER	B7A22384	LOCKER RM	2.5 TON	R22
009CCU001	COMPUTER A/C	009	VE72G-A01	LIEBERT	73299A	145	7 TON	R22
009CUA001	COND. UNIT-AIR	009	38CK003230	CARRIER	41D43588	LOCKER RM	2.5 TON	R22
009GDC001	DRY COOLER	009		LIEBERT		E. ROOF		
009GLP001	GLYCOL PUMP	009	SMP2000	INGERSOL RAND		E. ROOF	1-1/2HP	
009PUW001	PKG UNIT-WATER	009	SU303A	TRANE	6G31371	LOCKER	3 TON	R22
009RAD001	AIR DRYER	009		PNEUTECH		OM3		
009RAD002	AIR DRYER	009	AD-175	PNEUTECH	7905-T02127-11038	LOCKER RM		R12
009WAC001	WINDOW A/C	009	AJA12DFV4	GE	LS836272	LOCKER	1 TON	
009WAC002	WINDOW A/C	009	AJA12DFV4	GENERAL ELECTRIC		LOCKER	1 TON	
009WAC003	WINDOW A/C	009	XCB123D	CARRIER	3395X28932	TOOL ROOM	1 TON	
009WAC004	WINDOW A/C	009	XCB123D	CARRIER	1899B79923	MAC TOOL R	1 TON	
00LPUA001	PKG UNIT-AIR	L	WCD060A300BA	TRANE	D27116300	ROOF	5 TON	
00LPUA002	PKG UNIT-AIR	L	WCD060A300BA	TRANE	D27116289	ROOF	5 TON	
00MPUA001	PKG UNIT-AIR	M	WCD060A300A	TRANE	D27116298	ROOF	5 TON	R22
00MPUA002	PKG UNIT-AIR	M	WCD060A300BA	TRANE	D27116296	ROOF	5 TON	R22
00MPUA003	PKG UNIT-AIR	M	WCD060A300BA	TRANE	D27116295	ROOF	5 TON	R22

ATTACHMENT C.12-8 HVAC AND REFRIGERATION INVENTORY

EQUIPMENT NUMBER	EQUIPMENT NAME	BLDG #	MODEL	MANUFACTURER	SERIAL NUMBER	LOCATION	SIZE	FREON TYPE
00MPUA004	PKG UNIT-AIR	M	WCD060A300BA	TRANE	D27116294	ROOF	5 TON	R22
00NPUA001	PKG UNIT-AIR	N	WCD090A300AA	TRANE	D25143152D	ROOF	7.5 TON	R22
00NPUA002	PKG UNIT-AIR	N	WCD090C300BC	TRANE	M46100481D	ROOF	7.5 TON	R22
00NPUA003	PKG UNIT-AIR	N	WCD090A300AA	TRANE	D26143534D	ROOF	7.5 TON	R22
00NPUA004	PKG UNIT-AIR	N	WCD090A300AA	TRANE	D26143533D	ROOF	7.5 TON	R22
00NPUA005	PKG UNIT-AIR	N	WCD090A300AA	TRANE	D25143160D	ROOF	7.5 TON	R22
010AHU001	AIR HANDLER	010		TRANE		2ND FLOOR	3 TON	R22
010AHU002	AIR HANDLER	010	LSL103CH	MCQUAY	3RE0014706	108	4 TON	R22
010CCU001	COMPUTER A/C	010	CU60A	LIEBERT	70818A	EMCS RM	5 TON	R22
010CUA001	COND. UNIT-AIR	010	RAUB-306-D	TRANE	2G-23870	HIGH ROOF	TRANE	R22
010CUA002	COND. UNIT-AIR	010	AR703036-2C	COMFORTMAKER	0133401N200692	N. OUTSIDE	4 TON	R22
010GDC001	DRY COOLER	010	DSF-109P	LIEBERT	84020109	N. OUTSIDE	5 TON	
010GLP001	GLYCOL PUMP	010	1535	BELL & GOSSETT	1919889	N. OUTSIDE		
121CUA009	COND. UNIT-AIR	121	38AK-007-501	CARRIER	4595G00002	W. OUTSIDE	6 TON	R22
121AHU009	AIR HANDLER	121	40RM-007B600HC	CARRIER	1695F43447	WEST AD CEILIN(	6 TON	R22
152FAV001	FRESH AIR VENT	152	8100	RESEARCH PRODUCTS		MECH ROOM	200 CFM	
013AHU005	AIR HANDLER	013	C-22.0	MARLO	41449	PENTHOUSE	25 TON	R-22
013AHU006	AIR HANDLER	013	C-22.0	MARLO	41449	2	40 TON	R-22
013CTR001	COOLING TOWER	013		MARLEY	4631-768	ROOF	60 TON	
013CCU001	COMPUTER A/C	013	FH245A-CSM	LIEBERT	332050-001	COMP ROOM	20 TON	R=22
013AHU004	AIR HANDLER	013	PLH42FK	MITSUBISHI	21000022B	RM 105C	3.5 TON	R-22
013AHU003	AIR HANDLER	013	PLH42FK	MITSUBISHI	21000023B	CONFERENCE R(	3.5 TON	R-22
013CUW001	COND. UNIT-WATER	013	H62-22W29X45B	YORK	BX182840	PENTHOUSE	25 TON	R-22
013CUW002	COND. UNIT-WATER	013	2F5C88	TRANE	G2G08A3372	BASEMENT	40 TON	R-22
013CWP001	COND. WATER PUMP	013	71-14674	AURORA		PENTHOUSE		
013AHU002	AIR HANDLER	013	PLH42FK	MITSUBISHI	21000097B	RECPT DESK	3.5 TON	R-22
013PUW001	PKG UNIT-WATER	013	E60W-25B	YORK	CM-021117	CAL RM 7	5 TON	R-22
013CUA001	COND. UNIT-AIR	013	38CKB036321	CARRIER	4195E06615	COURTYARD	3 TON	R-22
013AHU001	AIR HANDLER	013	FB4ANF036	CARRIER	4695A03243	107CEILING	3 TON	R-22
014WAC001	WINDOW A/C	014	ACR124XXD	WHIRLPOOL	QB1400289	RM 1	1 TON COOL	
014WAC002	WINDOW A/C	014	12FD44H	EMERSON	EE 514703 1443	N. WALL RM2	1 TON COOL	
014WAC003	WINDOW A/C	014	ARL16E7H	FEDDERS	GB750115 1920	PHONE ROOM	1.1 TON COOL	
015AHU001	AIR HANDLER	015	H3H1R01RRA1	TRANE	K81C22151	RM 122	7.5HP	
015AHU002	AIR HANDLER	015	CCB03AE0H	TRANE	K88C07801	E. ADD MECH	1-1/2HP	
015AHU003	AIR HANDLER	015	40AA006300	CARRIER	822663A	110	1HP	

ATTACHMENT C.12-8 HVAC AND REFRIGERATION INVENTORY

EQUIPMENT NUMBER	EQUIPMENT NAME	BLDG #	MODEL	MANUFACTURER	SERIAL NUMBER	LOCATION	SIZE	FREON TYPE
015AHU005	AIR HANDLER	015	LSL-108CH	MCQUAY	3GJ00055	126A	2HP	
015AHU008	AIR HANDLER	015	TWE048C140B2	TRANE	H36815593	WEST ADDITION	1150 CFM	R22
015CCU001	COMPUTER A/C	015	EAC-10-C2-UD	AIRFLOW	80189	130	10 TON	
015CCU002	COMPUTER A/C	015	CCT-6C2-UD	AIRFLOW	8310D006	RM 100	5 TON	
015CCU003	COMPUTER A/C	015	FH376CC00	LIEBERT	105875A	RM 140	30 TON	
015CCU005	COMPUTER A/C	015	FE192G-C01	LIEBERT	73008B	126A	16 TON	R22
015CCU006	COMPUTER A/C	015	DACD1132	DATA-AIRE	931306-A	160	11 TON @ 6050CF	
015CHP001	CHILLED WATER PUMP	015	BB2508 6.9	TACO	5/81 TYPE B5B2D2T	BASEMENT	96GPM	
015CHP002	CHILLED WATER PUMP	015	BB2508 6.9	TACO	5/81 B5B2D2TLO	BASEMENT	96GPM	
015CHP003	CHILLED WATER PUMP	015	BB2508 6.9	TACO	5/81 TYPE B5B2D2T	BASEMENT	96GPM	
015COM001	AIR COMPRESSOR	015	HP-1500	THOMAS		BASEMENT		
015COM002	AIR COMPRESSOR	015	3B30E30B	ENERGAIR 1 CHARG AIR	B3186213	BASEMENT		
015CTR001	COOLING TOWER	015	VNT-50-D	BAC	78-2361	OUTS NORTH	50 TON	
015CTR002	COOLING TOWER	015	VXT-45C	BAC	81-8936	OUTS NORTH	50 TON	
015CTR003	COOLING TOWER	015	VNT-50-D	BAC	78-2359	OUTS NORTH	50 TON	
015CUA001	COND. UNIT-AIR	015	TWR036C100A1	TRANE	H35233194	NW. OUTSIDE	3 TON	R22
015CWP001	COND. WATER PUMP	015	B5B2D2TLO	TACO	5/81	BASEMENT	125GPM	
015CWP002	COND. WATER PUMP	015	BB2508 7.2	TACO	5/81	BASEMENT	125GPM	
015FCU001	FAN COIL UNIT	015	RC34A008	TRANE	S88C20734	1ST FL -SW		
015FCU002	FAN COIL UNIT	015	RC34A006	TRANE	S88C20745	GUARD DESK		
015FCU003	FAN COIL UNIT	015	LC34A008	TRANE	S99C20731	1ST FL -NW		
015FCU004	FAN COIL UNIT	015		TRANE		MAIN ENTRANCE		
015FCU005	FAN COIL UNIT	015	LC34A008	TRANE	S88C20732	2ND FL NW		
015FCU006	FAN COIL UNIT	015	LC34A002	TRANE	S88C30746	2ND FL -NE		
015FCU007	FAN COIL UNIT	015	RC34A008	TRANE	S88C20733	2ND FL -SW		
015FCU008	FAN COIL UNIT	015	LD16A002	TRANE	S88C20747	EAST ENTRANCE		
015FCU009	FAN COIL UNIT	015		TRANE		LOBBY		
015GDC001	DRY COOLER	015	DS0-260Y	LIEBERT	84030152	NW. OUTSIDE	16 TON	
015GLP001	GLYCOL PUMP	015	SMP2000P-296A	INGERSOLL RAND	0284-1138	NW. OUTSIDE	3HP	
015HWP001	HEATING PUMP	015	BB2005 5.5	TACO	5/81	BASEMENT	40GPM	
015HWP002	HEATING PUMP	015	BB2006 5.5	TACO	5/81	BASEMENT	40GPM	
015PNP001	PNEUMATIC PANEL	015		HONEYWELL		BASEMENT		
015RAD001	AIR DRYER	015	8010	HANKISON	0302A-46-1180-748N	BASEMENT	10 CFM	
015RAF001	RETURN AIR FAN	015	12K4FCUBCCW	TRANE	D88B04066	2ND FL MECH		
015WCA001	CHILLER-AIR COOLED	015	CGACC206KANBB223	TRANE	J87M60120	ROOF	20 TON	R22

ATTACHMENT C.12-8 HVAC AND REFRIGERATION INVENTORY

EQUIPMENT NUMBER	EQUIPMENT NAME	BLDG #	MODEL	MANUFACTURER	SERIAL NUMBER	LOCATION	SIZE	FREON TYPE
015WCW001	CHILLER-WATER COOLED	015	CGWA0406RC51	TRANE	L80L19915	BASEMENT	40 TON	R22
015WCW002	CHILLER-WATER COOLED	015	CGWA0406RC51	TRANE	L80L19916	BASEMENT	40 TON	R22
015WCW003	CHILLER-WATER COOLED	015	CGWA0406RC51	TRANE	L80L19917	BASEMENT	40 TON	R22
015ZNP002	ZONE PUMP	015	SN88162188013	ALLIS CHALMERS	020011000940	2ND FL MECH	40GPM/92 HD	
016AHU001	AIR HANDLER	016	TYPE 2-12A	TRANE	CC14902	200A	1-1/2HP	
016AHU002	AIR HANDLER	016	L0612	AIRTHERM	34692R01	109 N ADDITION		R22
016CHP001	CHILLED WATER PUMP	016	1535 SIZE 354T CX	B&G	1010343	BSMT MECH	1HP	
016COM001	AIR COMPRESSOR	016	200J20	JOHNSON	12-56	2ND FL		
016CUA001	COND. UNIT-AIR	016	502FS8	TSI	3-87-12189	N. OUTSIDE	7.5 TON	R22
016PUA001	PKG UNIT-AIR	016	PAAA24NIKI	TEMPSTAR	L931162740	CTRL RM ROOF	2 TON	R22
016RCA001	REF. CONDENSER-AIR	016	CAUC C104-A	TRANE	C82H-04296	E. OUTSIDE	10 TON	R406A
016WAC001	WINDOW A/C	016	WW363A	COMFORT AIRE	087C950911925-1	BSMT	3 TON	
016WCA001	CHILLER-AIR COOLED	016	CCABC104MANAR	TRANE	L82K07492	BSMT MECH	10 TON	R406A
017AHU001	AIR HANDLER	017	TYPE:CCDB25AEOM	TRANE	K90H25466	17E/35		
017AHU002	AIR HANDLER	017	TYPE: CCDB08CE0B	TRANE	K81E24857	17W/E.BSMT		
017AHU003	AIR HANDLER	017	TYPE: CCBB14BEPB0	TRANE	K81C22153	17W/W.BSMT		
017AHU004	AIR HANDLER	017	M0310	AIRTHERM	23286P03	17E/BST ME	100% OA	
017AHU005	AIR HANDLER	017	36-BHW-4	MAGIC AIRE	891214269	17W/120		
017AHU006	AIR HANDLER	017	36-BHW-4	MAGIC AIRE	891214270	17W/120		
017AHU007	AIR HANDLER	017	36-BHW-4	MAGIC AIRE	891214271	17W/120		
017AHU008	AIR HANDLER	017	36-BHW-4	MAGIC AIRE	891214272	17W/120		
017AHU009	AIR HANDLER	017	DVW-400	MAGIC AIRE	930662793	17W/RM 2	1 TON	
017CCU002	COMPUTER A/C	017	15TONDCW	EDPAC	20654-4	17W/120	15 TON	
017CCU003	COMPUTER A/C	017	10TONDCW	EDPAC	20654-2	17W/120	10 TON	
017CCU011	COMPUTER A/C	017	FH376-A00	LIEBERT	86798E	17E/E.122	15 TONS	
017CCU013	COMPUTER A/C	017	FH248C-A00	LIEBERT	86798D	17E/128B	10 TONS	
017CCU014	COMPUTER A/C	017	FH248C-A00	LIEBERT	86798A	17E/130	10 TONS	
017CCU015	COMPUTER A/C	017	FH248C-A00	LIEBERT	86798B	17E/132	10 TONS	
017CCU017	COMPUTER A/C	017	FH529C-A00	LIEBERT	86798L	17E/NW 235	22 TONS	
017CCU018	COMPUTER A/C	017	FH528C-A00	LIEBERT	86798J	17E/NE 235	22 TONS	
017CCU019	COMPUTER A/C	017	FH529C-A00	LIEBERT	86798K	17E/SE 235	22 TONS	
017CCU020	COMPUTER A/C	017	FH529C-A00	LIEBERT	86798I	17E/SW 235	22 TONS	
017CHP001	CHILLED WATER PUMP	017	BB 508 7.3 B5B2E2TL0	TACO	5/81	17W/CAGE		
017CHP002	CHILLED WATER PUMP	017		TACO		17W/CAGE		
017CHP003	CHILLED WATER PUMP	017	BB 508 7.3 B5B2D2TL0	TACO	?/81	17W/CAGE		

ATTACHMENT C.12-8 HVAC AND REFRIGERATION INVENTORY

EQUIPMENT NUMBER	EQUIPMENT NAME	BLDG #	MODEL	MANUFACTURER	SERIAL NUMBER	LOCATION	SIZE	FREON TYPE
017CHP004	CHILLED WATER PUMP	017	BB2508 7.3B5B2E2TL0	TACO (STANDBY)	?/81	17W/CAGE		
017CHP008	CHILLED WATER PUMP	017	2000 6X6X13L	ALLIS CHALMERS	841-51612-02-1	17E/BST ME	115GPM@95FTHD	
017CHP009	CHILLED WATER PUMP	017	2000 67X6X13L	ALLIS CHALMERS	841-51612-02-2	17E/BST ME		
017COM001	AIR COMPRESSOR	017	HP-1500	PNEUMOTIVE	1191 23072	17W/W.CAGE		
017COM002	AIR COMPRESSOR	017	HP-1500	PNEUMOTIVE	1189 70587	17W/W.CAGE		
017COM003	AIR COMPRESSOR	017	HP-1500	ITT PNEUMOTIVE	1791 12469	17E/BST ME		
017COM004	AIR COMPRESSOR	017	HP-1500	THOMAS	09/95 21894	17E.BST ME		
017CTR001	COOLING TOWER	017	VXT-1200	BAC	81-8935	17W/SOUTH	120 TON	
017CTR002	COOLING TOWER	017	VNT-50D	BAC	78-2357	17W/SOUTH	50 TON	
017CTR005	COOLING TOWER	017	8913	MARLEY	6-1551-85	17E/S.B192	450 TON	
002PNP001	PNEUMATIC PANEL	002		POWERS		BSMT MECH		
002PNP002	PNEUMATIC PANEL	002		POWERS		PENTHOUSE		
003PNP002	PNEUMATIC PANEL	003		ROBERTSHAW		AHU005		
003PNP003	PNEUMATIC PANEL	003		ROBERTSHAW		AHU004		
015PNP002	PNEUMATIC PANEL	015		HONEYWELL		AHU001		
017PNP001	PNEUMATIC PANEL	017		HONEYWELL		17W/CAGE		
017PNP002	PNEUMATIC PANEL	017		HONEYWELL		17W/AHU003		
017PNP003	PNEUMATIC PANEL	017		HONEYWELL		17W/AHU002		
017PNP004	PNEUMATIC PANEL	017		ROBERTSHAW		17E/BST ME		
017PNP005	PNEUMATIC PANEL	017		ROBERTSHAW		17E/AHU004		
018PNP001	PNEUMATIC PANEL	018		JOHNSON/HONEYWELL		FRONT BAY		
018PNP002	PNEUMATIC PANEL	018		JOHNSON		CENTER		
019PNP001	PNEUMATIC PANEL	019		ROBERTSHAW		A15/AHU010		
019PNP002	PNEUMATIC PANEL	019		ROBERTSHAW		A17/AHU011		
019PNP003	PNEUMATIC PANEL	019		ROBERTSHAW		B11/AHU012		
019PNP004	PNEUMATIC PANEL	019		ROBERTSHAW		B19/AHU013		
019PNP005	PNEUMATIC PANEL	019		ROBERTSHAW		W.A-WNG ME		
019PNP006	PNEUMATIC PANEL	019		ROBERTSHAW		W.A-WNG ME		
019PNP007	PNEUMATIC PANEL	019		ROBERTSHAW		W.A-WNG ME		
017CWP001	COND. WATER PUMP	017		TACO		17W/CAGE		
017CWP002	COND. WATER PUMP	017		TACO		17W/CAGE		
017CWP003	COND. WATER PUMP	017		TACO		17W/CAGE		
017CWP008	COND. WATER PUMP	017	TY.2000 8X6X9	ALLIS CHALMERS	841-51612-01-1	17E/BST ME	1350GPM@45FT	
017CWP007	COND. WATER PUMP	017	TY.2000 8X6X9	ALLIS CHALMERS	841-51612-01-2	17E/BST ME	1350GPM @ 45 FTHD	

ATTACHMENT C.12-8 HVAC AND REFRIGERATION INVENTORY

EQUIPMENT NUMBER	EQUIPMENT NAME	BLDG #	MODEL	MANUFACTURER	SERIAL NUMBER	LOCATION	SIZE	FREON TYPE
017FCU001	FAN COIL UNIT	017		TRANE		17W/201		
017FCU002	FAN COIL UNIT	017		TRANE		17W/200		
017FCU003	FAN COIL UNIT	017		TRANE		17W/200		
017FCU004	FAN COIL UNIT	017		TRANE		17W/200		
017FCU005	FAN COIL UNIT	017		TRANE		17W/200		
017FCU006	FAN COIL UNIT	017		TRANE		17W/202		
017FCU007	FAN COIL UNIT	017		TRANE		17W/204C		
017FCU008	FAN COIL UNIT	017		TRANE		17W/204C		
017FCU009	FAN COIL UNIT	017		TRANE		17W/204C		
017FCU010	FAN COIL UNIT	017		TRANE		17W/204B		
017FCU011	FAN COIL UNIT	017		TRANE		17W/204A		
017FCU012	FAN COIL UNIT	017		TRANE		17W/204A		
017FCU013	FAN COIL UNIT	017		TRANE		17W/208A		
017FCU014	FAN COIL UNIT	017		TRANE		17W/208		
017FCU015	FAN COIL UNIT	017		TRANE		17W/210		
017FCU016	FAN COIL UNIT	017		TRANE		17W/211		
017FCU017	FAN COIL UNIT	017		TRANE		17W/212		
017FCU018	FAN COIL UNIT	017		TRANE		17W/213		
017FCU019	FAN COIL UNIT	017		TRANE		17W/214		
019PNP008	PNEUMATIC PANEL	019		ROBERTSHAW		B107		
017FCU020	FAN COIL UNIT	017		TRANE		17W/215		
017FCU021	FAN COIL UNIT	017		TRANE		17W/214A		
017FCU022	FAN COIL UNIT	017		TRANE		17W/216		
017FCU023	FAN COIL UNIT	017		TRANE		17W/216		
019PNP009	PNEUMATIC PANEL	019		ROBERTSHAW		B-WNG MECH		
017FCU024	FAN COIL UNIT	017		TRANE		17W/217		
017FCU025	FAN COIL UNIT	017		TRANE		17W/217		
017FCU026	FAN COIL UNIT	017		TRANE		17W/218A		
017FCU027	FAN COIL UNIT	017		TRANE		17W/218B		
019PNP010	PNEUMATIC PANEL	019		ROBERTSHAW		B201		
017FCU028	FAN COIL UNIT	017		TRANE		17W/219A		
017FCU029	FAN COIL UNIT	017		TRANE		17W/219B		
017FCU030	FAN COIL UNIT	017		TRANE		17W/222A		
017FCU031	FAN COIL UNIT	017		TRANE		17W/222B		
017FCU032	FAN COIL UNIT	017		TRANE		17W/223A		

ATTACHMENT C.12-8 HVAC AND REFRIGERATION INVENTORY

EQUIPMENT NUMBER	EQUIPMENT NAME	BLDG #	MODEL	MANUFACTURER	SERIAL NUMBER	LOCATION	SIZE	FREON TYPE
017FCU033	FAN COIL UNIT	017		TRANE		17W/223B		
017FCU034	FAN COIL UNIT	017		TRANE		17W/226A		
017FCU035	FAN COIL UNIT	017		TRANE		17W/226B		
017FCU036	FAN COIL UNIT	017		TRANE		17W/227A		
017FCU037	FAN COIL UNIT	017		TRANE		17W/227B		
017FCU038	FAN COIL UNIT	017		TRANE		17W/230A		
017FCU039	FAN COIL UNIT	017		TRANE		17W/230B		
017FCU040	FAN COIL UNIT	017		TRANE		17W/231		
017FCU041	FAN COIL UNIT	017		TRANE		17W/233		
017FCU042	FAN COIL UNIT	017		TRANE		17W/115		
017FCU043	FAN COIL UNIT	017		TRANE		17W/116A		
017FCU044	FAN COIL UNIT	017		TRANE		17W/116B		
017FCU045	FAN COIL UNIT	017		TRANE		17W/116C		
017FCU046	FAN COIL UNIT	017		TRANE		17W/116D		
017FCU047	FAN COIL UNIT	017		TRANE		17W/116E		
017FCU048	FAN COIL UNIT	017		TRANE		17W/116F		
017FCU049	FAN COIL UNIT	017		TRANE		17W/111		
191PNP001	PNEUMATIC PANEL	191		ROBERTSHAW		SE MECH RM		
192PNP001	PNEUMATIC PANEL	192		ROBERTSHAW		S. MECH RM		
017FCU050	FAN COIL UNIT	017		TRANE		17W/109		
017FCU051	FAN COIL UNIT	017		TRANE		17W/105		
017FCU052	FAN COIL UNIT	017		TRANE		17W/105		
017FCU053	FAN COIL UNIT	017		TRANE		17W/105		
017FCU054	FAN COIL UNIT	017		TRANE		17W/105		
017FCU055	FAN COIL UNIT	017		TRANE		17W/105		
017FCU056	FAN COIL UNIT	017		TRANE		17W/105		
017FCU057	FAN COIL UNIT	017		TRANE		17W/100		
017FCU058	FAN COIL UNIT	017		TRANE		17W/100		
017FCU059	FAN COIL UNIT	017		TRANE		17W/100		
017FCU060	FAN COIL UNIT	017		TRANE		17W/100		
017FCU061	FAN COIL UNIT	017		TRANE		17W/100		
017FCU062	FAN COIL UNIT	017		TRANE		17W/100		
017FCU063	FAN COIL UNIT	017		TRANE		17W/100		
017FCU064	FAN COIL UNIT	017		TRANE		17W/100		
017FCU065	FAN COIL UNIT	017		TRANE		17W/100		

ATTACHMENT C.12-8 HVAC AND REFRIGERATION INVENTORY

EQUIPMENT NUMBER	EQUIPMENT NAME	BLDG #	MODEL	MANUFACTURER	SERIAL NUMBER	LOCATION	SIZE	FREON TYPE
017FCU066	FAN COIL UNIT	017		TRANE		17W/100		
017FCU067	FAN COIL UNIT	017		TRANE		17W/12		
017FCU068	FAN COIL UNIT	017		TRANE		17W/12		
017FCU069	FAN COIL UNIT	017		TRANE		17W/12		
017FCU070	FAN COIL UNIT	017		TRANE		17W/8		
017FCU071	FAN COIL UNIT	017		TRANE		17W/8		
017FCU072	FAN COIL UNIT	017		TRANE		17W/8		
017FCU073	FAN COIL UNIT	017		TRANE		17W/8		
017FCU074	FAN COIL UNIT	017		AIRTHERM???		17W/16		
017FCU075	FAN COIL UNIT	017		TRANE		17W/SNKBAR		
017FCU076	FAN COIL UNIT	017		TRANE		17W/2N WBR		
017FCU087	FAN COIL UNIT	017	031-2L-CR-B	AIRTHERM	6-85	17E/BS LOB		
017FCU088	FAN COIL UNIT	017	061-2B-CB-B	AIRTHERM	6-85	17E/24		
017FCU089	FAN COIL UNIT	017	061-2B-CB-B	AIRTHERM	6-85	17E/24		
017FCU090	FAN COIL UNIT	017	016-2B-CB-B	AIRTHERM	6-85	17E/24		
017FCU092	FAN COIL UNIT	017	021-2L-CB-B	AIR THERM	6-85	17E/PHN RM		
017FCU093	FAN COIL UNIT	017	031-2L-CB-B	AIRTHERM	6-85	17E/39		
017FCU094	FAN COIL UNIT	017	031-2L-CB-B	AIRTHERM	6-85	17E/33		
017FCU095	FAN COIL UNIT	017	021-2B-CB-B	AIRTHERM	6-85	17E/33		
017FCU096	FAN COIL UNIT	017	021-2B-CB-B	AIRTHERM	6-85	17E/31		
017FCU097	FAN COIL UNIT	017	021-2B-CB-B	AIRTHERM	6-85	17E/31		
017FCU098	FAN COIL UNIT	017	021-2B-CB-B	AIRTHERM	6-85	17E/29		
017FCU099	FAN COIL UNIT	017	021-2B-CB-B	AIRTHERM	6-85	17E/LOBBY		
017FCU100	FAN COIL UNIT	017	021-2B-CB-B	AIRTHERM	6-85	17E/125		
017FCU101	FAN COIL UNIT	017	031-2B-CB-B	AIRTHERM	6-85	17E/127		
017FCU102	FAN COIL UNIT	017	021-2L-CB-B	AIRTHERM	6-85	17E/129		
017FCU103	FAN COIL UNIT	017	041-2L-CB-B	AIRTHERM	6-85	17E/131		
017FCU104	FAN COIL UNIT	017	021-2L-CB-B	AIRTHERM	6-85	17E/133		
017FCU105	FAN COIL UNIT	017	021-2L-CB-B	AIRTHERM	6-85	17E/135		
017FCU106	FAN COIL UNIT	017	021-2L-CB-B	AIRTHERM	6-85	17E/2ND LB		
017FCU107	FAN COIL UNIT	017	021-2L-CB-B	AIRTHERM	6-85	17E/2ND LB		
017FCU108	FAN COIL UNIT	017	CR3-CC-3-2	DUNHAM-BUSH	401624	17W/3		
017FCU109	FAN COIL UNIT	017	061-1L-C-A	AIRTHERM	4-84	17W/1A		
017HUM001	HUMIDIFIER	017	REFD-200	NORTEC	163J8300	17W/2	4.4 LBS/HR	
017HWP001	HEATING PUMP	017	BB3008 7.8 B5B2E2TL	TACO		17W/CAGE		

ATTACHMENT C.12-8 HVAC AND REFRIGERATION INVENTORY

EQUIPMENT NUMBER	EQUIPMENT NAME	BLDG #	MODEL	MANUFACTURER	SERIAL NUMBER	LOCATION	SIZE	FREON TYPE
017HWP002	HEATING PUMP	017	1614C2N2 6.35	TACO		17E/BST ME		
017RAD001	AIR DRYER	017	8010	HANKISON	0302A-46-8109-486N	17W/W.CAGE	10 SCFM	
017RAD002	AIR DRYER	017	E-15	HANKISON	0305-1-71-056	17W/W.CAGE	15 SCFM	
017RAD003	AIR DRYER	017	8010	HANKISON	8602-540N	17E/EAST	10 SCFM	
017WCW001	CHILLER-WATER COOLED	017	CGWA1201RC51CC	TRANE	L80L19918	17W/CAGE	120 TON	R22
017WCW002	CHILLER-WATER COOLED	017	CGHA0501RB51C	TRANE	L80L19919	17W/CAGE	50 TON	R22
017WCW006	CHILLER-WATER COOLED	017	PEH063	MCQUAY	5PL0300200	17E/BST ME	225 TON	R134A
017WCW007	CHILLER-WATER COOLED	017	PEH063	MCQUAY	5PL0300300	17E/BST ME	225 TON	R134A
017ZNP001	ZONE PUMP	017	BB3006 5.7 A5B202TL(	TACO		17W/W.CAGE		
017ZNP002	ZONE PUMP	017	BB3006 5.7 A5B202TL(	TACO		17W/W.CAGE		
017ZNP008	ZONE PUMP	017	39T B38 5-3/4 DIA	B&G	1119223	17W/W.HALL		
019COM002	AIR COMPRESSOR	019	216-40-647003L	QUINCY		B01		
019COM001	AIR COMPRESSOR	019	216-38-544645L	QUINCY	(COM002) NB42808	B01		
019RAD002	AIR DRYER	019	E10	HANKISON	932864	B01		
104RAD001	AIR DRYER	104	8100	HANKISON	0321A1-8410-343N	GARAGE WEST		R12
103COM001	AIR COMPRESSOR	103		HONEYWELL		MECH ROOM		
103RAD001	AIR DRYER	103	8010	HANKISON		MECH ROOM		
121COM001	AIR COMPRESSOR	121	A3025-3	JOHNSON	J.F.3	MECH CAGE		
121RAD001	AIR DRYER	121	A421	JOHNSON		MECH CAGE		
018COM001	AIR COMPRESSOR	018	QC00703SX3	QUINCY	5035365	COMP HUTCH		
103PNP001	PNEUMATIC PANEL	103		HONEYWELL		KITCHEN		
103PNP002	PNEUMATIC PANEL	103		HONEYWELL		LOFT		
192COM001	AIR COMPRESSOR	192		ITT		S. MECH RM		
018AHU002	AIR HANDLER	018	CHE24-A	YORK	HM350922	114 ROOF	2 TON	R22
018AHU003	AIR HANDLER	018	40FS200300	CARRIER	K738526	121	5 TON	R22
018AHU004	AIR HANDLER	018		FREIDRICH		178	2 TON	R22
018AHU005	AIR HANDLER	018	36-BHX-3	MAGIC AIRE	940284665	207	3 TON	R22
018AHU007	AIR HANDLER	018	LSL106CV	MCQUAY	3RE0014806	145	5 TON	R22
018AHU010	AIR HANDLER	018	K2EU060A06A	YORK	NLAS121168	129 N. MECH	5 TON	R22
018CCU001	COMPUTER A/C	018	CU4EAA00	LIEBERT	111066A	125	4 TON	R22
018CCU003	COMPUTER A/C	018	CCT-20G4-PC	AIRFLOW	8702D161	141	20 TON	R22
018CCU004	COMPUTER A/C	018	CCT-20G4-PC	AIRFLOW	8702D160	141	20 TON	R22
152HUM001	HUMIDIFIER	152	913BA084A	ALLIED PRODUCTS	2489H01542	FURNACE RM		
018CUA002	COND. UNIT-AIR	018		YORK		OUTS/114	2 TON	R22
018CUA003	COND. UNIT-AIR	018	502FS5	TSI	4456	ROOF R121	5 TON	R22

ATTACHMENT C.12-8 HVAC AND REFRIGERATION INVENTORY

EQUIPMENT NUMBER	EQUIPMENT NAME	BLDG #	MODEL	MANUFACTURER	SERIAL NUMBER	LOCATION	SIZE	FREON TYPE
018CUA004	COND. UNIT-AIR	018	MR24C3C	FREDERICK	JEMH00042	OUTS/178	2 TON	R22
018CUA005	COND. UNIT-AIR	018	38CK036610	CARRIER	5193E03471	S. FRONT	3 TON	R22
018CUA006	COND. UNIT-AIR	018	AR8010604S	COMFORTMAKER	0135820M510051	OUTS/145	5 TON	R22
018CUA008	COND. UNIT-AIR	018	TTA072400BO	TRANE	F15259535	S. FRONT	6 TON	R22
018CUA009	COND. UNIT-AIR	018	TTA060A400A0	TRANE	C05249767	S. SOUTH	5 TON	R22
018CUA010	COND. UNIT-AIR	018	H1DA060825A	YORK	EDBM119799	E. OUTSIDE	5 TON	R22
018GDC001	DRY COOLER	018	PFG 26	LARKIN		SW CORNER	26 TON	
018GDC002	DRY COOLER	018	PFG 26	LARKIN		SW CORNER	26 TON	
018GDC003	DRY COOLER	018	PFG 26	LARKIN		SW CORNER	26 TON	
018GLP001	GLYCOL PUMP	018				SW CORNER		
018GLP002	GLYCOL PUMP	018				SW CORNER		
018GLP003	GLYCOL PUMP	018				SW CORNER		
152CUA001	COND. UNIT-AIR	152	590ANX030000AAAA	BRYANT	4089E10963	EAST	2.5 TON	R22
018PUA002	PKG UNIT-AIR	018	L RH542060M2S	CLIMATE CONTROL	0448700K520020	RCM	5.5 TON	R22
018PUA003	PKG UNIT-AIR	018	PH825-1000	HEAT CONTROLLER	2333F41839856	ROOF RM173	2 TON	R22
018PUA004	PKG UNIT-AIR	018	ARC024B	INTERTHERM	A00075626	ROT ARM	2 TON	R22
018PUA005	PKG UNIT-AIR	018	ARC024B	INTERTHERM	A00075627	ROT ARM	2 TON	R22
018RAD002	AIR DRYER	018	8015	HANKISON		FRONT BAY	15 SCFM	R22
018RCA001	REF. CONDENSER-AIR	018	CSF0652	LIEBERT	85120430	ROOF RM123	4 TON	R22
018WAC001	WINDOW A/C	018	ASL14E2HKC	FEDDERS	KV35907-2794	107	1.2 TON	
T04WAC001	WINDOW A/C	T04	WAC053T7A2	WHITE WESTINGHOUSE	JK54213732	NORTH	.41 TON	
T04WAC002	WINDOW A/C	T04	AGFS813DEX	GENERAL ELECTRIC	FV111976	SOUTH	1.1 TON	
T04WAC003	WINDOW A/C	T04	HBQ080-A	HAMPTON BAY	AL4790250069	EAST		
004WAC014	WINDOW A/C	004	18GD44	EMERSON	LG4249643195	4E/RM 113A		
T20WAC001	WINDOW A/C	T20		FRIEDRICH			1 TON	
T20WAC002	WINDOW A/C	T20		GENERAL ELECTRIC			1 TON	
T21WAC001	WINDOW A/C	T21		FRIEDRICH			1 TON	
T21WAC002	WINDOW A/C	T21	SS11B30	FRIEDRICH	101603		1 TON	
T22WAC001	WINDOW A/C	T22	RC1806D	YORK	JP087438	EAST	1 TON	
T22WAC002	WINDOW A/C	T22	RC1806D	YORK	JP087439	WEST	1 TON	
018WAC015	WINDOW A/C	018	SS11G30B	FRIEDRICH	86ES07872	A100	.91 TON	
121WAC007	WINDOW A/C	121	SL35H30	FRIEDRICH	89FS14609	215	3 TON	
018WAC008	WINDOW A/C	018	51QF210-101-M	CARRIER	F0927343	B108	.8 TON	
018WAC009	WINDOW A/C	018	51QF210-101-M	CARRIER	F0927495	B104		
018WAC010	WINDOW A/C	018	51BK706B1	CARRIER	C937396	MAC SHP OF		

ATTACHMENT C.12-8 HVAC AND REFRIGERATION INVENTORY

EQUIPMENT NUMBER	EQUIPMENT NAME	BLDG #	MODEL	MANUFACTURER	SERIAL NUMBER	LOCATION	SIZE	FREON TYPE
018WAC011	WINDOW A/C	018	51BK706B1	CARRIER	C937400	GENERAL OFFICE		
018WAC012	WINDOW A/C	018	AJE10D1T2	GENERAL ELECTRIC	H117317	B102 SOUTH	.75 TON	
018WAC013	WINDOW A/C	018	AJE11D1Z1	GENERAL ELECTRIC	RH101287	B102 NORTH	1 TON	
018WAC014	WINDOW A/C	018	ACR124XXD	WHIRLPOOL	AB1400288	B100	1 TON	
018WAC016	WINDOW A/C	018	AJE10D1T2	GENERAL ELECTRIC	SH117653	SOUTHEAST	.75 TON	
018WAC017	WINDOW A/C	018	AJE10D1T2	GENERAL ELECTRIC	SH118112	SOUTHEAST	.75 TON	
018WAC018	WINDOW A/C	018	AJE10D1T2	GENERAL ELECTRIC	SH117054	A105 SOUTH	.75 TON	
018WAC019	WINDOW A/C	018	AJE101T2	GENERAL ELECTRIC	SH117603	A105 NORTH	.75 TON	
018WAC020	WINDOW A/C	018	AJE10D1T2	GENERAL ELECTRIC	SH117604	SOUTHWEST	.75 TON	
018WAC021	WINDOW A/C	018	AJE11D1Z1	GENERAL ELECTRIC	SH100926	SOUTHWEST	1 TON	
152GFN001	GAS FURNACE	152	395CAV048110	BRYANT	0890A09977	FURNACE RM	89,000 BTU	R22
018WAC005	WINDOW A/C	018	WHV12HET	HEAT CONTROLLER	28904-175996	NE MACH SHOP	1 TON	
003CUA004	COND. UNIT-AIR	003	SCB30DE0000AA0A	ENVIROMASTER INTERN	1-95-M-0915-05	REAR EXIT	2.5 TON	R22
019AHU002	AIR HANDLER	019	40BA009300	CARRIER	K696866	A158	5 TON	R22
019AHU003	AIR HANDLER	019	KICB060A06A	YORK	MKLS150905	B127	5 TON	R22
019AHU004	AIR HANDLER	019	BDHU-331000	SINGER	0564010-K13-2088	B127	3 TON	R22
019AHU005	AIR HANDLER	019	N2AHD10A06D	YORK	EKAS267778	B17	2 TON	R22
019AHU006	AIR HANDLER	019	BHSC-2B	TRANE	169-458-1A	C100	2 TON	R22
019AHU007	AIR HANDLER	019	UFJ-10400-CU	WORTHINGTON	85F67C-204	RM C102 SE	10 TON	R22
019AHU008	AIR HANDLER	019	UFJ-10400-0U	WORTHINGTON	85F67C-212	RM C102 SW	10 TON	R22
019AHU009	AIR HANDLER	019	UFJ-20400-0U	WORTHINGTON	85F67B-396	RM C102 N	20 TON	R22
019AHU010	AIR HANDLER	019	WGY Size 16205	WESTINGHOUSE	Style 4770-1 F-7	RM A-15	3HP	
019AHU011	AIR HANDLER	019	WGY Size 15203	WESTINGHOUSE	Style 4770-16 F-8	RM A-17	3/4HP	
019AHU012	AIR HANDLER	019	WGY Size 16205	WESTINGHOUSE	Style 4770-2 F-11	RM A-11	1.5HP	
019AHU013	AIR HANDLER	019	WGY Size 16208	WESTINGHOUSE	Style 4770-3 F-13	RM B-19	3HP	
019AHU015	AIR HANDLER	019	WGY Size 16203A	WESTINGHOUSE	Style 4770-6	A WNG MECH	1/3HP	
019AHU016	AIR HANDLER	019	WGY Size 16203	WESTINGHOUSE	Style 4770-7 F-23	W.A-WNG ME	1HP	
019AHU017	AIR HANDLER	019	WGY Size 16203	WESTINGHOUSE	Style 4770-8 F-25	E.A-WNG ME	1.5HP	
019AHU018	AIR HANDLER	019		WESTINGHOUSE		B WNG MECH	1HP	
019AHU021	AIR HANDLER	019	WGY Size 16205	WESTINGHOUSE	Style 4770-10 F-29	B203	1.5HP	
019AHU024	AIR HANDLER	019	DHX600	MAGIC-AIRE	930967160	RM B-265	2 TON	R22
019AHU025	AIR HANDLER	019	RS1211	SANYO	0008533	RM B-125	1 TON	R22
019AHU026	AIR HANDLER	019	RS1211	SANYO	0005832	RM B-125	1 TON	R22
019AHU027	AIR HANDLER	019	0184F2	AIRTHERM	54515V02	B PUMP RM	7.5 TON	R22
019AHU028	AIR HANDLER	019	0612F2	AIRTHERM	54515V01	B PUMP RM	5 TON	R22

ATTACHMENT C.12-8 HVAC AND REFRIGERATION INVENTORY

EQUIPMENT NUMBER	EQUIPMENT NAME	BLDG #	MODEL	MANUFACTURER	SERIAL NUMBER	LOCATION	SIZE	FREON TYPE
019AHU029	AIR HANDLER	019	TWE060A400BB	TRANE	K195J2B5H	X-RAY C3	5 TON	R22
019CCU001	COMPUTER A/C (TEMP A/C)	019	DK10	LISKEY	AE3-0513	RM B-15	10 TON	R22
019CHP001	CHILLED WATER PUMP	019	4L1400P24G-L1	WEINMAN	463721	B01	672G/165H	
019CHP002	CHILLED WATER PUMP	019	4L1400P24G-L1	WEINMAN	463720	B01	672G/165H	
019CTR001	COOLING TOWER	019	2-2413C	BAC	823900-D	ROOF	150 TON	
019CTR002	COOLING TOWER	019	2-2413C	BAC	823900-D	ROOF	150 TON	
019CUA002	COND. UNIT-AIR	019	38CKB060600	CARRIER	1096E18315	W. A-WING	5 TON	R22
019CUA003	COND. UNIT-AIR	019	TTA060C300N	TRANE	M254K4UFF	B WNG DOCK	5 TON	R22
019CUA004	COND. UNIT-AIR	019	A-R801036-3S	SINGER	0135410-K16-0023	W.OF B-WNG	3 TON	R22
019CUA005	COND. UNIT-AIR	019	H1CB024506A	YORK	METM142305	W.OF B-WNG	2 TON	R22
019CUA006	COND. UNIT-AIR	019	RAUB-206-D	TRANE	0D-45610	E OF C-BAY	2 TON	R22
019CUA007	COND. UNIT-AIR	019	UDS-40210-0U	WORTHINGTON	8F68C-350	C102 ROOF	40 TON	R22
019CUA008	COND. UNIT-AIR	019	38CK018310	CARRIER	4393E03610	NE ROOF	2 TON	R22
019CUA009	COND. UNIT-AIR	019	TWA060C400A2	TRANE	K461WA3FF	E OF C-BAY	5 TON	R22
019CUA010	COND. UNIT-AIR	019	HAHB-T090AA	LUXAIRE	NHYMD47416	W.OF B-BAY	7.5 TON	R22
019CUA011	COND. UNIT-AIR	019	HBES-T060AA	LUXAIRE	ELPM277375	W.OF B-BAY	5 TON	R22
019CUA012	COND. UNIT-AIR	019	CL1211	SANYO	0019033	B DOC.ROOF	1 TON	R22
019CUA013	COND. UNIT-AIR	019	CL1211	SANYO	0006132	B DOC ROOF	1 TON	R22
019CWP001	COND. WATER PUMP	019	4L2250P24G-L1	WEINMAN	463557	B01	840G/94H	
019CWP002	COND. WATER PUMP	019	4L2250P24G-L1	WEINMAN	463558	B01	840G/94H	
019FCU001	FAN COIL UNIT	019		WORTHINGTON		A100		
019FCU002	FAN COIL UNIT	019		WORTHINGTON		A102		
019FCU003	FAN COIL UNIT	019		WORTHINGTON		A104		
019FCU004	FAN COIL UNIT	019		WORTHINGTON		A106		
019FCU005	FAN COIL UNIT	019		WORTHINGTON		A112B		
019FCU006	FAN COIL UNIT	019		WORTHINGTON		A112		
019FCU007	FAN COIL UNIT	019		WORTHINGTON		A112		
019FCU008	FAN COIL UNIT	019		WORTHINGTON		A112A		
019FCU009	FAN COIL UNIT	019		WORTHINGTON		A112A		
019FCU010	FAN COIL UNIT	019		WORTHINGTON		A116		
019FCU011	FAN COIL UNIT	019		WORTHINGTON		A116		
019FCU012	FAN COIL UNIT	019		WORTHINGTON		A116		
019FCU013	FAN COIL UNIT	019		WORTHINGTON		A122		
019FCU014	FAN COIL UNIT	019		WORTHINGTON		A124		

ATTACHMENT C.12-8 HVAC AND REFRIGERATION INVENTORY

EQUIPMENT NUMBER	EQUIPMENT NAME	BLDG #	MODEL	MANUFACTURER	SERIAL NUMBER	LOCATION	SIZE	FREON TYPE
019FCU015	FAN COIL UNIT	019		WORTHINGTON		A126		
019FCU016	FAN COIL UNIT	019		WORTHINGTON		A128		
019FCU017	FAN COIL UNIT	019		WORTHINGTON		A130		
019FCU018	FAN COIL UNIT	019		WORTHINGTON		A132		
019FCU019	FAN COIL UNIT	019		WORTHINGTON		A136		
019FCU020	FAN COIL UNIT	019		WORTHINGTON		A138		
019FCU021	FAN COIL UNIT	019		WORTHINGTON		A140		
019FCU022	FAN COIL UNIT	019		WORTHINGTON		A129		
019FCU023	FAN COIL UNIT	019		WORTHINGTON		A142		
019FCU026	FAN COIL UNIT	019		WORTHINGTON		A133		
019FCU027	FAN COIL UNIT	019		WORTHINGTON		A135		
019FCU028	FAN COIL UNIT	019		WORTHINGTON		A144		
019FCU029	FAN COIL UNIT	019		WORTHINGTON		A146		
019FCU030	FAN COIL UNIT	019		WORTHINGTON		A146A		
019FCU031	FAN COIL UNIT	019		WORTHINGTON		B100		
019FCU032	FAN COIL UNIT	019		WORTHINGTON		B102		
019FCU033	FAN COIL UNIT	019		WORTHINGTON		B104		
019FCU034	FAN COIL UNIT	019		WORTHINGTON		B106		
019FCU035	FAN COIL UNIT	019		WORTHINGTON		B108		
019FCU036	FAN COIL UNIT	019		WORTHINGTON		B103		
019FCU037	FAN COIL UNIT	019		WORTHINGTON		B105A		
019FCU038	FAN COIL UNIT	019		WORTHINGTON		B110		
019FCU039	FAN COIL UNIT	019		WORTHINGTON		B112		
019FCU040	FAN COIL UNIT	019		WORTHINGTON		B109		
019FCU041	FAN COIL UNIT	019		WORTHINGTON		B114		
019FCU042	FAN COIL UNIT	019		WORTHINGTON		B111		
019FCU043	FAN COIL UNIT	019		WORTHINGTON		B118		
019FCU044	FAN COIL UNIT	019		WORTHINGTON		B118A		
019FCU045	FAN COIL UNIT	019		WORTHINGTON		B118B		
019FCU046	FAN COIL UNIT	019		WORTHINGTON		B113		
019FCU047	FAN COIL UNIT	019		WORTHINGTON		B113		
019FCU048	FAN COIL UNIT	019		WORTHINGTON		B122		
019FCU049	FAN COIL UNIT	019		WORTHINGTON		B124		
019FCU050	FAN COIL UNIT	019		WORTHINGTON		B126		
019FCU051	FAN COIL UNIT	019		WORTHINGTON		B128		

ATTACHMENT C.12-8 HVAC AND REFRIGERATION INVENTORY

EQUIPMENT NUMBER	EQUIPMENT NAME	BLDG #	MODEL	MANUFACTURER	SERIAL NUMBER	LOCATION	SIZE	FREON TYPE
019FCU052	FAN COIL UNIT	019		WORTHINGTON		B130		
019FCU053	FAN COIL UNIT	019		WORTHINGTON		B125		
019FCU054	FAN COIL UNIT	019		WORTHINGTON		B125		
019FCU055	FAN COIL UNIT	019		WORTHINGTON		B134A		
019FCU056	FAN COIL UNIT	019		WORTHINGTON		B134		
019FCU057	FAN COIL UNIT	019		WORTHINGTON		B134B		
019FCU058	FAN COIL UNIT	019		WORTHINGTON		B138		
019FCU059	FAN COIL UNIT	019		WORTHINGTON		B140		
019FCU060	FAN COIL UNIT	019		WORTHINGTON		B142		
019FCU061	FAN COIL UNIT	019		WORTHINGTON		B144		
019FCU062	FAN COIL UNIT	019		WORTHINGTON		B146		
019FCU063	FAN COIL UNIT	019		DUNHAM BUSH		B150		
019FCU064	FAN COIL UNIT	019		DUNHAM BUSH		B152		
019FCU065	FAN COIL UNIT	019		WORTHINGTON		B154		
019FCU067	FAN COIL UNIT	019		DUNHAM BUSH		B158		
019FCU066	FAN COIL UNIT	019		DUNHAM BUSH		B156		
019FCU068	FAN COIL UNIT	019		WORTHINGTON		B160		
019FCU069	FAN COIL UNIT	019		DUNHAM BUSH		B162		
019FCU070	FAN COIL UNIT	019		DUNHAM BUSH		B164		
019FCU071	FAN COIL UNIT	019		DUNHAM BUSH		B170B		
019FCU072	FAN COIL UNIT	019		WORTHINGTON		B170B		
019FCU073	FAN COIL UNIT	019		WORTHINGTON		B170		
019FCU074	FAN COIL UNIT	019		WORTHINGTON		B170A		
019FCU075	FAN COIL UNIT	019		WORTHINGTON		MEN LOCKER		
019FCU076	FAN COIL UNIT	019		WORTHINGTON		B171		
019FCU077	FAN COIL UNIT	019		AIRTHERM		B-BAY SHOW		
019FCU078	FAN COIL UNIT	019		WORTHINGTON		B163		
019FCU079	FAN COIL UNIT	019		WORTHINGTON		B163		
019FCU080	FAN COIL UNIT	019		WORTHINGTON		B143		
019FCU081	FAN COIL UNIT	019		WORTHINGTON		B143		
019FCU082	FAN COIL UNIT	019		WORTHINGTON		B143		
019FCU083	FAN COIL UNIT	019		WORTHINGTON		OUTS AUDIT		
019FCU084	FAN COIL UNIT	019		DUNHAM BUSH		B174		
019FCU085	FAN COIL UNIT	019		WORTHINGTON		B176		
019FCU086	FAN COIL UNIT	019		WORTHINGTON		B178		

ATTACHMENT C.12-8 HVAC AND REFRIGERATION INVENTORY

EQUIPMENT NUMBER	EQUIPMENT NAME	BLDG #	MODEL	MANUFACTURER	SERIAL NUMBER	LOCATION	SIZE	FREON TYPE
019FCU087	FAN COIL UNIT	019		WORTHINGTON		OUTS AUDIT		
019FCU088	FAN COIL UNIT	019		WORTHINGTON		A200		
019FCU089	FAN COIL UNIT	019		WORTHINGTON		A202		
019FCU090	FAN COIL UNIT	019		WORTHINGTON		A204		
019FCU091	FAN COIL UNIT	019		WORTHINGTON		A206		
019FCU092	FAN COIL UNIT	019		WORTHINGTON		A208		
019FCU093	FAN COIL UNIT	019		WORTHINGTON		A203		
019FCU094	FAN COIL UNIT	019		WORTHINGTON		A205		
019FCU095	FAN COIL UNIT	019		WORTHINGTON		A207		
019FCU096	FAN COIL UNIT	019		WORTHINGTON		A209		
019FCU097	FAN COIL UNIT	019		WORTHINGTON		A210		
019FCU098	FAN COIL UNIT	019		WORTHINGTON		A211		
019FCU099	FAN COIL UNIT	019		WORTHINGTON		A212		
019FCU100	FAN COIL UNIT	019		WORTHINGTON		A213		
019FCU101	FAN COIL UNIT	019		WORTHINGTON		A214		
019FCU102	FAN COIL UNIT	019		WORTHINGTON		A215	BLOCKED	
019FCU103	FAN COIL UNIT	019		WORTHINGTON		A217		
019FCU104	FAN COIL UNIT	019		WORTHINGTON		A216		
019FCU105	FAN COIL UNIT	019		WORTHINGTON		A220		
019FCU106	FAN COIL UNIT	019		WORTHINGTON		A218		
019FCU107	FAN COIL UNIT	019		WORTHINGTON		A222		
019FCU108	FAN COIL UNIT	019		WORTHINGTON		A224		
019FCU109	FAN COIL UNIT	019		WORTHINGTON		A226		
019FCU110	FAN COIL UNIT	019		WORTHINGTON		A223		
019FCU111	FAN COIL UNIT	019		WORTHINGTON		A223		
019FCU112	FAN COIL UNIT	019		WORTHINGTON		A223		
019FCU113	FAN COIL UNIT	019		WORTHINGTON		A223		
019FCU115	FAN COIL UNIT	019		WORTHINGTON		A227		
019FCU116	FAN COIL UNIT	019		WORTHINGTON		A227		
019FCU117	FAN COIL UNIT	019		WORTHINGTON		A228		
019FCU118	FAN COIL UNIT	019		WORTHINGTON		A230		
019FCU119	FAN COIL UNIT	019		WORTHINGTON		A232		
019FCU120	FAN COIL UNIT	019		WORTHINGTON		A236		
019FCU121	FAN COIL UNIT	019		WORTHINGTON		A238		
019FCU122	FAN COIL UNIT	019		WORTHINGTON		A234		

ATTACHMENT C.12-8 HVAC AND REFRIGERATION INVENTORY

EQUIPMENT NUMBER	EQUIPMENT NAME	BLDG #	MODEL	MANUFACTURER	SERIAL NUMBER	LOCATION	SIZE	FREON TYPE
019FCU123	FAN COIL UNIT	019		WORTHINGTON		A240		
019FCU124	FAN COIL UNIT	019		WORTHINGTON		A242		
019FCU126	FAN COIL UNIT	019		WORTHINGTON		A246		
019FCU127	FAN COIL UNIT	019		WORTHINGTON		A248		
019FCU128	FAN COIL UNIT	019		WORTHINGTON		A250		
018WAC004	WINDOW A/C	018	WHV121HET	HEAT CONTROLLER	28904-176280	RM 176	1 TON	
019FCU130	FAN COIL UNIT	019		WORTHINGTON		A252		
019FCU131	FAN COIL UNIT	019		WORTHINGTON		B200		
019FCU132	FAN COIL UNIT	019		WORTHINGTON		B202		
019FCU125	FAN COIL UNIT	019		WORTHINGTON		A244		
019FCU129	FAN COIL UNIT	019		WORTHINGTON		A252		
019FCU133	FAN COIL UNIT	019		WORTHINGTON		B204		
019FCU134	FAN COIL UNIT	019		WORTHINGTON		B206		
019FCU135	FAN COIL UNIT	019		WORTHINGTON		B208		
019FCU136	FAN COIL UNIT	019		WORTHINGTON		B209		
019FCU137	FAN COIL UNIT	019		WORTHINGTON		B210		
019FCU138	FAN COIL UNIT	019		WORTHINGTON		B212		
019FCU139	FAN COIL UNIT	019		WORTHINGTON		B214	BLOCKED	
019FCU140	FAN COIL UNIT	019		WORTHINGTON		B211		
019FCU141	FAN COIL UNIT	019		WORTHINGTON		B213		
019FCU142	FAN COIL UNIT	019		WORTHINGTON		B215		
019FCU143	FAN COIL UNIT	019		WORTHINGTON		B217		
019FCU144	FAN COIL UNIT	019		WORTHINGTON		B218		
019FCU145	FAN COIL UNIT	019		WORTHINGTON		B216		
019FCU146	FAN COIL UNIT	019		WORTHINGTON		B220		
019FCU147	FAN COIL UNIT	019		WORTHINGTON		B219		
019FCU148	FAN COIL UNIT	019		WORTHINGTON		B221		
019FCU149	FAN COIL UNIT	019		WORTHINGTON		B222		
019FCU150	FAN COIL UNIT	019		WORTHINGTON		B223		
019FCU151	FAN COIL UNIT	019		WORTHINGTON		B224		
019FCU152	FAN COIL UNIT	019		WORTHINGTON		B226		
019FCU153	FAN COIL UNIT	019		WORTHINGTON		B228		
019FCU154	FAN COIL UNIT	019		WORTHINGTON		B230		
019FCU155	FAN COIL UNIT	019		WORTHINGTON		B232		
019FCU156	FAN COIL UNIT	019		WORTHINGTON		B234		

ATTACHMENT C.12-8 HVAC AND REFRIGERATION INVENTORY

EQUIPMENT NUMBER	EQUIPMENT NAME	BLDG #	MODEL	MANUFACTURER	SERIAL NUMBER	LOCATION	SIZE	FREON TYPE
019FCU157	FAN COIL UNIT	019		WORTHINGTON		B236		
019FCU158	FAN COIL UNIT	019		WORTHINGTON		B236		
019FCU159	FAN COIL UNIT	019		WORTHINGTON		B236		
019FCU160	FAN COIL UNIT	019		WORTHINGTON		B236		
019FCU161	FAN COIL UNIT	019		WORTHINGTON		B242		
019FCU162	FAN COIL UNIT	019		WORTHINGTON		B244		
019FCU163	FAN COIL UNIT	019		WORTHINGTON		B246		
019FCU164	FAN COIL UNIT	019		WORTHINGTON		B248		
019FCU165	FAN COIL UNIT	019		WORTHINGTON		B250	BLOCKED	
019FCU166	FAN COIL UNIT	019		WORTHINGTON		B252		
019FCU167	FAN COIL UNIT	019		WORTHINGTON		B254		
019FCU168	FAN COIL UNIT	019		WORTHINGTON		B256		
019FCU169	FAN COIL UNIT	019		WORTHINGTON		B258		
019FCU170	FAN COIL UNIT	019		WORTHINGTON		B260	BLOCKED	
019FCU171	FAN COIL UNIT	019		WORTHINGTON		B262	BLOCKED	
019FCU172	FAN COIL UNIT	019		WORTHINGTON		B264		
019FCU173	FAN COIL UNIT	019		WORTHINGTON		B266		
019FCU174	FAN COIL UNIT	019		WORTHINGTON		B268		
019FCU175	FAN COIL UNIT	019		WORTHINGTON		B270		
019FCU176	FAN COIL UNIT	019		WORTHINGTON		B272	BLOCKED	
019FCU177	FAN COIL UNIT	019		WORTHINGTON		B274		
019FCU178	FAN COIL UNIT	019		WORTHINGTON		B276		
019FCU179	FAN COIL UNIT	019		WORTHINGTON		B278	BLOCKED	
019FCU180	FAN COIL UNIT	019		WORTHINGTON		B280	BLOCKED	
019FCU181	FAN COIL UNIT	019		TRANE		B261		
019FCU182	FAN COIL UNIT	019		TRANE		B261A	BLOCKED	
019FCU183	FAN COIL UNIT	019		TRANE		B261A	BLOCKED	
019FCU186	FAN COIL UNIT	019		WORTHINGTON		B265		
019FCU187	FAN COIL UNIT	019		WORTHINGTON		B265		
019FCU188	FAN COIL UNIT	019		WORTHINGTON		B265		
019FCU189	FAN COIL UNIT	019		WORTHINGTON		B265		
031PUA002	PKG UNIT-AIR	031	50HS-048-301AA	CARRIER	2295G80905	SW GRD	4 TON	R22
019GDC001	DRY COOLER	019	AFC-016A-V-99	MCQUAY	4-LM00131-00	W. OF AUDI	16 TON	
019HWP001	HEATING PUMP	019	1510 3E 11"	B&G	1361272	B-01	350GPM 115 FTHD	
019HWP002	HEATING PUMP	019	1510 3E 11"	B&G	1361271	B-01	350GPM 115 FTHD	

ATTACHMENT C.12-8 HVAC AND REFRIGERATION INVENTORY

EQUIPMENT NUMBER	EQUIPMENT NAME	BLDG #	MODEL	MANUFACTURER	SERIAL NUMBER	LOCATION	SIZE	FREON TYPE
019PUA001	PKG UNIT-AIR	019	SAHB-B252-A	TRANE	C82H-04508	B WNG ROOF	2 TON	R22
019PUA002	PKG UNIT-AIR	019	BBCB-TO36AA	FRASER-JOHNSTON	NGXM135834	A WNG DOCK	3 TON	R22
019PUA003	PKG UNIT-AIR	019	BBCB-T060AA	FRASER-JOHNSON	NAYM006338	A WNG ROOF	5 TON	R22
019PUA004	PKG UNIT-AIR	019	TL10-1328-F	GOVERNAIR	27637	AUDITOR ROOF	12.5 TON	R22
019PUW001	PKG UNIT-WATER	019	CW15-1	FHP	LH278	B173	1.5 TON	R22
019DEH001	DEHUMIDIFIER	019	IH0200NR	DESERT AIRE	0893D2423	X- RAY		
019PUW006	PKG UNIT-WATER	019	SAAAACCW192200	AM. AIR FILTER	89-F-TAB-00839B	B129	1.5 TON	R22
019PUW007	PKG UNIT-WATER	019	SAAAACCW192200	AM. AIR FILTER	89-F-TAB-00840B	B129	1.5 TON	R22
019RAF001	RETURN AIR FAN	019	15	PEERLESS-PORTER		B-WNG MECH	2000 CFM	
019RAF002	RETURN AIR FAN	019	12D	HK PORTER CO INC PEERLESS EL		B-WNG MECH	1300 CFM	
019RAF003	RETURN AIR FAN	019				B19		
019RAF004	RETURN AIR FAN	019				W.A-WNG ME		
019VAL001	WATER VALVES	019		4-TOTAL		BASE. MECH		
019WAC001	WINDOW A/C	019	SS13E30	FRIEDRICH	407295	B113	1.1 TON	
019WAC003	WINDOW A/C	019	WB94-2A	YORK	FP046783	B200	.75 TON	
019WAC004	WINDOW A/C	019	AHF-P50-20	WHIRLPOOL	A04011362	A15	.4 TON	
019WAC007	WINDOW A/C	019	SL35H30	FRIEDRICH	88FS12377	B201	3 TON	
019WAC008	WINDOW A/C	019	SL35H30	FRIEDRICH	88FS12379	B201	3 TON	
019WCW001	CHILLER- WATER COOLED	019	PEH050	MCQUAY	5YK81063-00	B01	14O TON	R134A
019WCW002	CHILLER- WATER COOLED	019	PEH050	MCQUAY	5YK81064-00	B01	140 TON	R134A
019ZNP001	ZONE PUMP	019	1-1/2 BC 7.375	BELL AND GOSSETT	1880522	A WNG MECH	77GPM 55FTHD	
019ZNP002	ZONE PUMP	019	312T	BELL & GOSSETT	1262977	B WNG MECH	75GPM	
019ZNP003	ZONE PUMP	019	314TB	BELL & GOSSETT	1484980	A WNG MECH	3HP	
019ZNP004	ZONE PUMP	019	5524N IMP(10.5)	FAIRBANKS MORSE	K2K1024184	B21	170G 100HD	
020WAC001	WINDOW A/C	020	ASL14E2HKC	FEDDERS	K43958782784	UPS	1.1 TON	
021AHU001	AIR HANDLER	021		TRANE		BAY AREA	7.5 TON	R22
021AHU002	AIR HANDLER	021		TRANE		BAY AREA	2.5 TON	R22
021AHU003	AIR HANDLER	021		TRANE		RM105 ROOF	2.5 TON	R22
021CCU003	COMPUTER A/C	021	GB8033E	EDPAC	69012-001A	111 (BAY)	15 TON	R22
021CUA001	COND. UNIT-AIR	021	RAS-84B	TRANE	8E-37601	E GRND	7.5 TON	R22
021CUA002	COND. UNIT-AIR	021	RAUA-206A	TRANE	8J-74929	E. GRD	2.5 TON	R22
021CUA003	COND. UNIT-AIR	021	RAU-206A	TRANE	8J-74922	E. GRD	2.5 TON	R22
021GDC001	DRY COOLER	021	PFG21	LARKIN	TXG30100	E. OUTSIDE	15 TON @105	R22

ATTACHMENT C.12-8 HVAC AND REFRIGERATION INVENTORY

EQUIPMENT NUMBER	EQUIPMENT NAME	BLDG #	MODEL	MANUFACTURER	SERIAL NUMBER	LOCATION	SIZE	FREON TYPE
021GLP001	GLYCOL PUMP	021				E. OUTSIDE	3HP	
021RCA001	REF. CONDENSER-AIR	021	FCA5	LARKIN	N80178	W. OUTSIDE	5 TON	R22
022AHU001	AIR HANDLER	022	BH5C-5B	TRANE	3G-08530	ABOVE BATHROO	3 TON	R22
022CUA001	COND. UNIT-AIR	022	RAUB-356-D	TRANE	169-0533-9A	NW. OUTSIDE	3 TON	R22
022PUA001	PKG UNIT-AIR	022	50CD007520BA	CARRIER	5086G39469	E. ROOF	5 TON	R22
024PUA001	PKG UNIT-AIR	024	PTEB09010F	TRANE	A94C02128	FT OFFICE	.75 TON	R22
028AHU001	AIR HANDLER	028	TWE060A300AB	TRANE	EO4172169	MECH RM	5 TON	R22
028CUA001	COND. UNIT-AIR	028	TTA048A300A0	TRANE	D35255907	N. OUTSIDE	4 TON	R22
029PUA001	PKG UNIT-AIR	029	WCH090C300BA	TRANE	H27142666D	N. OUTSIDE	7.5 TON	R22
029PUA002	PKG UNIT-AIR	029	WCH90C300BA	TRANE	H2B142141D	N. OUTSIDE	7.5 TONS	R22
030AHU002	AIR HANDLER	030	COIL:G/HC0425A3A/ BLOWR:N4AHD14AQ 6A	YORK	COIL:EKBS092905 BLOWR:ECCSQ84 004	CEILING W	3.5 TON	R22
030AHU001	AIR HANDLER	030	F3EH090A33A	YORK	NCCS007092	MECH RM	7.5 TON	R22
030CUA001	COND. UNIT-AIR	030	E1FB090A25A	YORK	NECM037480	REAR CENT	7.5 TON	R22
030CUA002	COND. UNIT-AIR	030		YORK	EBCM097365	REAR WEST	3.5 TON	R22
100AHU001	AIR HANDLER	100		RUUD		MBR CLOSE	4 TON	R22
100CUA001	COND. UNIT-AIR	100		RUUD		OUTSIDE SOUTH	4 TON	R22
103AHU001	AIR HANDLER	103	L1EU240AA	YORK	NGXS116963	MAIN DR	20 TON	R22
103AHU002	AIR HANDLER	103	K1EU180A33A	YORK	NGXS116993	VISIT DR	15 TON	R22
103AHU003	AIR HANDLER	103	RHQA-1300A	RHEEM	M40913439	OFF. AREA	3 TON	R22
103CUA001	COND. UNIT-AIR	103	H1CA240A25A	YORK	NGXM138113	EAST	20 TON	R22
103CUA002	COND. UNIT-AIR	103	H2CA180A25A	YORK	NEXM137962	WEST	15 TON	R22
103CUA003	COND. UNIT-AIR	103	RAFD-036JAS	RHEEM	4655M49900985	EAST-WALL	3 TON	R22
103FCU001	FAN COIL UNIT	103		TRANE		ENTRANCE 1		
103FCU002	FAN COIL UNIT	103		TRANE		ENTRANCE 2		
103HWP001	HEATING PUMP	103	1/4AB5-3/4BF	BELL & GOSSETT	1058288	LOFT		
198WAC001	WINDOW A/C	198	AKF-105-20	WHIRLPOOL	A22163760	TST PD BLDG		
016PUA002	PKG UNIT-AIR	016	50LJ008610	CARRIER	0893G24239	ROOF NEW A	7.5 TON	R22
121AHU010	AIR HANDLER	121	40RM-007-B600 HC	CARRIER	1895F45654	WEST ADD MR	6 TON	R22
104WAC001	WINDOW A/C	104		FREIDRICH		102	1 TON	
104WAC002	WINDOW A/C	104	109-3W	AMANA	K19400083	100C	.75 TON	
104WAC003	WINDOW A/C	104	A12-830	CHRYSLER	1C016403	W. MODULAR OFF	1 TON	
104WAC004	WINDOW A/C	104	WB94-2A	YORK	FP045687	101 OFFICE	.75 TON	

ATTACHMENT C.12-8 HVAC AND REFRIGERATION INVENTORY

EQUIPMENT NUMBER	EQUIPMENT NAME	BLDG #	MODEL	MANUFACTURER	SERIAL NUMBER	LOCATION	SIZE	FREON TYPE
108WAC001	WINDOW A/C	108	SQ06H10	FRIEDRICH	91DS10243		.5 TON	
109WAC001	WINDOW A/C	109	SS13C30	FRIEDRICH	305435	E. OFFICE	1.1 TON	
109WAC002	WINDOW A/C	109	R1DL028A06	YORK	NP018603	E. OFFICE	2.3 TON	
109WAC003	WINDOW A/C	109				E. OFFICE		
111AHU001	AIR HANDLER	111	KBBS-T120AA	FRASER JOHNSON	NDAS106754	BLDG CENTER	10 TON	R22
111CUA001	COND. UNIT-AIR	111	HAMC-T060SA	FRASER JOHNSTON	EBAM73710	N. OUTSIDE	5 TON	R22
111CUA002	COND. UNIT-AIR	111	HAMC-T060SA	FRASER JOHNSTON	ECAM113021	N. OUTSIDE	5 TON	R22
112AHU001	AIR HANDLER	112	40RR002530	CARRIER	2195065	NE. INSIDE	7.5 TON	R22
112CUA001	COND. UNIT-AIR	112	38BA008540	CARRIER	0382G34654	E. OUTSIDE	7.5 TON	R22
113AHU001	AIR HANDLER	113	TWE060D150A	TRANE	M06KRT1V	WEST END	5 TON	R22
113CUA001	COND. UNIT-AIR	113	CA5060UHA1	TEMPSTAR	L94090573	W. OUTSIDE	5 TON	R22
113WAC001	WINDOW A/C	113	AEP-8MN	FRIGIDAIRE	24Y53328	OFFICE	.8 TON	
116AHU001	AIR HANDLER	116		RUUD		CEILING		R22
116CUA001	COND. UNIT-AIR	116	UPFB-060JAS	RUUD	COND. UNIT-AIR	W. OUTSIDE	5 TON	R22
121AHU001	AIR HANDLER	121	EBU182A	YORK	DS0952552	LOW ROOF	15 TON	R22
121AHU002	AIR HANDLER	121	BWE060C300GA	TRANE	D09174341	CEIL.R229	5 TON	R22
121AHU003	AIR HANDLER	121	RHQA1200B	RHEEM	M32823542	CEILING. R100	3 TON	R22
121AHU004	AIR HANDLER	121		MAIN AIR HANDLER		MECH ROOM	30 TON	R414B
121AHU005	AIR HANDLER	121	40QH048300	CARRIER	2587A19318	200D	3.5 TON	R22
121AHU007	AIR HANDLER	121	BCM036XKB2	TEMPSTAR	L920236862	134	2.5 TON	R22
121AHU008	AIR HANDLER	121	NBCM060XKB2	TEMPSTAR	L921739479	226/HALL	4 TON	R22
121CTR001	COOLING TOWER	121		BAC		SOUTH END	15 TON	
121CUA001	COND. UNIT-AIR	121	CA181-25A	YORK	DMF002245	NORTH END	15 TON	R22
121CUA003	COND. UNIT-AIR	121	TTB030C100A1	TRANE	N132429BF	SOUTH/EAST	2.5 TON	R22
121CUA005	COND. UNIT-AIR	121	38EH042320	CARRIER	3087E60667	200D	3.5 TON	R22
121CUA006	COND. UNIT-AIR	121	TTA060A300A0	TRANE	D13224747	NORTH	5 TON	R22
121CUA007	COND. UNIT-AIR	121	CH9530VKA1	TEMPSTAR	L932465915	134	2.5 TON	R22
121CUA008	COND. UNIT-AIR	121	CH9548VKA1	TEMPSTAR	L93284523	NW/OUTSIDE	4 TON	R22
121CWP001	COND. WATER PUMP	121	PART#186863	B&G	986304 MW	SOUTH END		
121CWP002	COND. WATER PUMP	121		B&G		SOUTH END		
121EVC001	EVAP. CONDENSER	121	VNC-35	BAC	71-6936	SOUTH END	35 TON	R414B
121PUA001	PKG UNIT-AIR	121	PF60-25E	YORK	HM-0965R0	NORTH END	5 TON	R22
121PUW001	PKG UNIT-WATER	121	SCX73EE	TRANE	3107832	SOUTH 1ST	7.5 TON	R22
121PUW002	PKG UNIT-WATER	121	E60W-25B	YORK	EM-061236Y	SOUTH 1ST	5 TON	R22
121RFC001	REF. COMPRESSOR	121	F92S	YORK	CX074283-73281	MACH RM	30 TON	R414B

ATTACHMENT C.12-8 HVAC AND REFRIGERATION INVENTORY

EQUIPMENT NUMBER	EQUIPMENT NAME	BLDG #	MODEL	MANUFACTURER	SERIAL NUMBER	LOCATION	SIZE	FREON TYPE
121WAC001	WINDOW A/C	121	SS1H30A	FRIEDRICH	91K316668	119		
004HVU004	HEATING/ VENTILATING UNIT	004		WADDELL ENG	K83E93702	BASIN	PC#5-21	
004HVU003	HEATING/ VENTILATING UNIT	004		WADDELL ENG	K83E93685	BASIN	PC# 3-4	
124WAC001	WINDOW A/C	124	51DA180200	CARRIER	0131430	OFFICE		
126WAC001	WINDOW A/C	126	51FED114A301	CARRIER	T106161	OFFICE	1.17 TON	
128AHU001	AIR HANDLER	128	RHQA1315J	RHEEM	HM12830319	STAIRWAY	2.5 TON	R22
128AHU002	AIR HANDLER	128	B08003	SNYDER GENERAL	R911000002	MECH ROOM	7.5 TON	R22
128CUA001	COND. UNIT-AIR	128	TWR030C100A4	TRANE	P0257PXCF	N. OUTSIDE	2.5 TON	R22
128CUA002	COND. UNIT-AIR	128	C080C0	SNYDER GENERAL	R910200007	S. OUTSIDE	7.5 TON	R22
129GDC001	DRY COOLER	129	PFG5	LARKIN	25764	W. OUTSIDE	5 TON	
129GLP001	GLYCOL PUMP	129	3642 SIZE 1	GOULD	1BF11034AC	W. OUTSIDE	1HP	
129PUW001	PKG UNIT-WATER	129	E60W-25B	YORK	FM220877	PIPE SHOP	5 TON	R22
129WAC004	WINDOW A/C	129	51SH006100	CARRIER	L430829	OFFICE	1 TON	
129WAC002	WINDOW A/C	129	A12-88	CHRYSLER	1C019679	LUNCH AREA	1 TON	
004WAC005	WINDOW A/C	004	18GD44	EMERSON	LG4249743195	4E/RM 113A	1.5 TON	
143WAC001	WINDOW A/C	143	EP08SSA-HP (HT PUN	COLD POINT		NW. OFFICE		
143WAC002	WINDOW A/C	143	KQ05J10 (COOL ONLY	FREIDRICH	JGAS08124	N. REC OFFICE		
143WAC003	WINDOW A/C	143	WAH09EP2T2 (ELE H	WHITE WESTINGHOUSE	JK61515050	N.CTR OFFICE	8900 BTU	
143WAC004	WINDOW A/C	143	EK12J33A (ELE HT)	FRIEDRICH	JFLS05341	SE.CTR OFF	12500 BTU	
143WAC005	WINDOW A/C	143	8W1X0-F	EMERSON	15D891312	NW OFFICE	.7 TON	
004WAC013	WINDOW A/C	004	ASL14E2HK	FEDDERS	HT325202	4E/RM 113A	1.12 TON	
004WAC016	WINDOW A/C	004	ASK19E7HKC	FEDDERS	FW318582	4E/RM 113	1.54 TON	
143WAC007	WINDOW A/C	143	WHU121HET	HEAT CONTROLLER	28904-176389	INSP. OFFICE	1 TON	
001WAC014	WINDOW A/C	001	SL24H30	FREIDRICH	90FS06284	PROJ RM 1	2 TONS	
155WAC001	WINDOW A/C	155	51SB2103B20	CARRIER	C674315	GATE		
156AHU001	AIR HANDLER	156	TWE060A300AB	TRANE	E33177691	TST PD BLDG	5 TON	R22
156CUA001	COND. UNIT-AIR	156	TWA060A300A2	TRANE	E36221440	TST PD BLDG	5 TON	R22
143WAC006	WINDOW A/C	143	WHU121HET	HEAT CONTROLLER	28904-176355	SW OFFICE	1 TON	
178WAC001	WINDOW A/C	178	KS10H10	FRIEDRICH	JBGS03192	GATE HOUSE		
181WAC001	WINDOW A/C	181	A12-88	CHRYSLER	1C019018	S. WALL	8,000 BTU	
183BRP001	BRINE PUMP	183	P21E665B A0	MONOBLOC	A121664	INSIDE BLDG	IMPELLER 8.25"	
183BRP002	BRINE PUMP	183	Y220362A1 KT	WORTHINGTON	A197442	INSIDE BLDG	IMPELLER 6-3/4"	
183HTX001	HEAT EXCHANGER	183		BELL & GOSSETT				

ATTACHMENT C.12-8 HVAC AND REFRIGERATION INVENTORY

EQUIPMENT NUMBER	EQUIPMENT NAME	BLDG #	MODEL	MANUFACTURER	SERIAL NUMBER	LOCATION	SIZE	FREON TYPE
183RCA001	REF. CONDENSER-AIR	183	UBJ-301000U	WORTHINGTON	9F65G-511	EAST ROOF		
183RCA002	REF. CONDENSER-AIR	183	UBJ-30100-OU	WORTHINGTON	9F68H-340	WEST ROOF		
183RFC001	REF. COMPRESSOR	183	CTA805213-U	WORTHINGTON	37A68K-195	E. INSIDE	50 TON	
183RFC002	REF. COMPRESSOR	183	OEU-805210-U	WORTHINGTON	37A65D-238	W. INSIDE	50 TON	
191AHU001	AIR HANDLER	191		MCQUAY		CTR MECH RM	?? TONS	R22
191AHU002	AIR HANDLER	191	M0613	AIRTHERM	23286P01	SE MECH RM	7.5 TONS	
191AHU003	AIR HANDLER	191	K3EU090A33A	YORK	NDSS182540	150	7 1\2 TON	R22
191CCU001	COMPUTER A/C	191	MM20W	LIEBERT	39112	SPARK RM	1.5 TON	R22
191CCU002	COMPUTER A/C	191	MM20W	LIEBERT	38882	SPARK RM	1.5 TON	R22
191CHP001	CHILLED WATER PUMP	191	M-ZE10.0BF	B&G	2174410	SE MECH RM	96GPM@103FT	
191CHP002	CHILLED WATER PUMP	191	M-ZE10.0BF	B&G	2174411	SE MECH RM	96GPM@103FT	
191CUA001	COND. UNIT-AIR	191	H2CA090A25B	YORK	NGRM216275	E. OUTSIDE	7.5 TON	R22
191FCU001	FAN COIL UNIT	191		TRANE		W.HALL CEILING		
191FCU002	FAN COIL UNIT	191		TRANE		W.HALL CEILING		
191RAF002	RETURN AIR FAN	191		JENN FAN		SE MECH RM		
191WCA003	CHILLER-AIR COOLED	191	CGAFC404ACA 1000000000T0W00	TRANE	C99H15156M	E. OUTSIDE	40 TON	R22
192AHU001	AIR HANDLER	192		AIRTHERM		S. MECH RM		
192AHU002	AIR HANDLER	192		TRANE		S. MECH RM		
192CCU001	COMPUTER A/C	192	10TONCDCW	EDPAC	30196-3-C	RM 111	10 TON	
192CHP001	CHILLED WATER PUMP	192		B&G		S. PUMP RM		
192CHP002	CHILLED WATER PUMP	192		B&G		S. PUMP RM		
192WCA001	CHILLER-AIR COOLED	192	AG2040AS42-ER10	MCQUAY	STNV990900150	S. OUTSIDE	40 TON	R22
015AHU015	AIR HANDLER	015	KMS0712	SANYO	0074134	126 W. WALL	.6 TON	R22
015AHU016	AIR HANDLER	015	KMS1812	SANYO	0037744	126 N. WALL	1.5 TON	R22
015CUA005	COND. UNIT-AIR	015	CM3212	SANYO	0048244	N. OUTSIDE	3.1 TON	R22
015AHU014	AIR HANDLER	015	KMS0712	SANYO	0066434	126 OFFICE	.58 TON	R22
003CWP001	COND. WATER PUMP	003	4AC63/4BF	B&G	1238368	BSMT CAGE	480GPM	
103PUA001	PKG UNIT-AIR	103	D4PF060A25A	YORK	NGPM206638	OUTS. EAST	5 TON	
018CCU002	COMPUTER A/C	018	CCT-20G4-PC	AIRFLOW	8702D159	141	20 TON	R22
015CWP003	COND. WATER PUMP	015	BB2508 7.2	TACO	5/81	BASEMENT	125GPM	
018AHU011	AIR HANDLER	018	K4EU090A33A	YORK	NHBS021941	RM 111	7.5 TON	R22
018AHU012	AIR HANDLER	018	F3EH120A33A	YORK	NDCS009205	RM 241	10 TON	R22
018CUA011	COND. UNIT-AIR	018	H4CE09025A	YORK	NACM006659	BLDG FRONT	7.5 TON	R22
018CUA012	COND. UNIT-AIR	018	E1FB120A25A	YORK	NDCB033036	GRD. 241	10 TON	R22

ATTACHMENT C.12-8 HVAC AND REFRIGERATION INVENTORY

EQUIPMENT NUMBER	EQUIPMENT NAME	BLDG #	MODEL	MANUFACTURER	SERIAL NUMBER	LOCATION	SIZE	FREON TYPE
004AHU003	AIR HANDLER	004	40RR-008-530	CARRIER	2994F04996	4E/RM 109	6 TON	R22
004CUA003	COND. UNIT-AIR	004	38AK-007-501	CARRIER	3394G90018	4E/E.GRD	6 TON	R22
009PUA001	PKG UNIT-AIR	009	50TJ-024-510QA	CARRIER	2194F97994	ROOF N. AD	20 TON	R22
015FAV001	FRESH AIR VENT	015	8100	RESEARCH PRODUCTS C	120B15	RM 126B	120CFM	
018CCU005	COMPUTER A/C	018	CCT3G44D	AIRFLOW	8702D168	141C	5 TON	R22
015AHU009	AIR HANDLER	015	KMS0912	SANYO	0107734	RM 207C	.75 TON	R22
015AHU010	AIR HANDLER	015	KMS0912	SANYO	0109234	RM 207B	.75 TON	R22
015AHU011	AIR HANDLER	015	KMS0912	SANYO	0119943	RM 201A	.75 TON	R22
015AHU012	AIR HANDLER	015	KMS0912	SANYO	0120243	RM 201	.75 TON	R22
015AHU013	AIR HANDLER	015	KMS0911	SANYO	0029641	RM 207D	.75 TON	R22
015CUA003	COND. UNIT-AIR	015	CM1812	SANYO	0048942	CENTER ROOF	1.5 TON	R22
015CUA004	COND. UNIT-AIR	015	C0911	SANYO	?????	CENTER ROOF	1.5 TON	R22
001WCA007	CHILLER-AIR COOLED	001	ACDR20A	DUNHAM BUSH	4485101A95C	ROOF	20 TON	R22
127WAC001	WINDOW A/C	127	KS10H10	FREIDRICH	JCCS11575	PAINT SHOP	.83 TON	
004HVU018	HEATING/ VENTILATING UNIT	004		WADDELL ENG	K83E69695	BASIN	PC#33-16	
001AHU016	AIR HANDLER	001	HCS03CF4490401		4490401A95B	MACHINE SHOP	100% OA	
015CUA002	COND. UNIT-AIR	015	CM1812	SANYO	0056234	CENTER ROOF	1-1/2 TON	R22
016FCU002	FAN COIL UNIT	016		WORTHINGTON		200		
001CHP006	CHILLED- WATER PUMP	001	M3554T	TACO		ROOFWCA007		
125CUA001	COND. UNIT-AIR	125	HS29-261-1P	LENNOX	5895B27363	E. OUTSIDE	2 TON	R22
125GFN001	GAS FURNACE	125	G23Q3-50-2	LENNOX	5895B23422	OFFICE	50,000 BTU	R22
125CUA002	COND. UNIT-AIR	125	HS29-653-1Y	LENNOX	5895C22483	E. OUTSIDE	5 TON	R22
125GFN002	GAS FURNACE	125	58GS200-LA	CARRIER	4991A05053	NE CORNER	200,000 BTU	R22
125CUA003	COND. UNIT-AIR	125	HS17-1353-5Y	LENNOX	5695F03931	E. OUTSIDE	10 TON	R22
125AHU001	AIR HANDLER	125	60BVW/BVX-A	MAGIC-AIRE	950320153	NE CORNER	5 TON	R22
125GFN003	GAS FURNACE	125	DJE150SF	MODINE	2042295	AHU001	120,000 BTU	R22
018HVU003	HEATING/ VENTILATING UNIT	018	F 13 3	MARLO COIL CO	M61607			
003AHU007	AIR HANDLER	003	WCX36D050AA000F	ENVIROMASTER INTERN/	1-96-F-0390-23	116MA	.03HP	R22
060SGN001	STEAM GENERATOR	060	VI60USG1230	CEMLINE CORP	46326	HI-BAY LOFT	2700#/HR	
T12WAC002	WINDOW A/C	T12				WEST		
T12WAC001	WINDOW A/C	T12				EAST		
019WAC002	WINDOW A/C	019	R-243A	COMFORT-AIRE	QD3903529	B105	2.1 TONS	
103FCU003	FAN COIL UNIT	103		TRANE		CREDIT UNION		

ATTACHMENT C.12-8 HVAC AND REFRIGERATION INVENTORY

EQUIPMENT NUMBER	EQUIPMENT NAME	BLDG #	MODEL	MANUFACTURER	SERIAL NUMBER	LOCATION	SIZE	FREON TYPE
103FCU004	FAN COIL UNIT	103		TRANE		CREDIT UNION		
003FCU240	FAN COIL UNIT	003		TRANE		112M		
003FCU241	FAN COIL UNIT	003		TRANE		116M		
019AHU030	AIR HANDLER	019	TBC24D0100A0A0C	ENVIROMASTER INTERN	1-96-2-2603-06	S. A-160	2 TON	R22
019AHU031	AIR HANDLER	019	TBC24D0100A0A0C	ENVIROMASTER INTERN	1-96-B-2913-14	N. A-160	2 TON	R22
019CUA014	COND. UNIT-AIR	019	SCB24DFA000AA0A	ENVIROMASTER INTERN	1-95-M-0951-05	W.OF A-WNG	2 TON	R22
019CUA015	COND. UNIT-AIR	019	SCB24DFA000AA0A	ENVIROMASTER INTERN	1-95-M-0950-05	W.OF A-WNG	2 TON	R22
121CUA010	COND. UNIT-AIR	121	38AK-007-501	CARRIER	4595G00004	W. OUTSIDE	6 TON	R22
029WAC001	WINDOW A/C	029	EP17AHB-HP3.45KH	COLD POINT	15949	N STORE CON	17,100 BTU COOL	
029WAC002	WINDOW A/C	029	EP17AHB-HP3.45KW	COLD POINT	15999	S STORE CON	17,000 BTU COOL	
004HVU002	HEATING/ VENTILATING UNIT	004		WADDELL ENG		BASIN	PC#3-4	
004HVU001	HEATING/ VENTILATING UNIT	004	LSLIIICV	McQUAY	3NJ00096-04	BASIN		
004HVU006	HEATING/ VENTILATING UNIT	004		WADDELL ENG	K83E93698	BASIN	PC#9-14	
004HVU005	HEATING/ VENTILATING UNIT	004		WADDELL ENG	K83E93705	BASIN	PC#7/6	
004HVU008	HEATING/ VENTILATING UNIT	004		WADDELL ENG	K83E93696	BASIN	PC#1319	
004HVU007	HEATING/ VENTILATING UNIT	004		WADDELL ENG	K83E93704	BASIN	PC#11-2	
004HVU010	HEATING/ VENTILATING UNIT	004		WADDELL ENG	KA3B86876	BASIN	PC#17	
004HVU009	HEATING/ VENTILATING UNIT	004		WADDELL ENG	K83E93683	BASIN	PC#15-5	
004HVU012	HEATING/ VENTILATING UNIT	004		WADDELL ENG	K83E93693	BASIN	PC#21-22	
004HVU011	HEATING/ VENTILATING UNIT	004		WADDELL ENG	K8E393703	BASIN	PC#19-1	
004HVU014	HEATING/ VENTILATING UNIT	004		WADDELL ENG	K83E93699	BASIN	PC#25-20	
004HVU013	HEATING/ VENTILATING UNIT	004		WADDELL ENG	K83E93692	BASIN	PC#23-25	
004HVU016	HEATING/ VENTILATING UNIT	004		WADDELL ENG	K83E93700	BASIN	PC#29-24	
004HVU015	HEATING/ VENTILATING UNIT	004		WADDELL ENG	K83E93689	BASIN	PC#27-8	

ATTACHMENT C.12-8 HVAC AND REFRIGERATION INVENTORY

EQUIPMENT NUMBER	EQUIPMENT NAME	BLDG #	MODEL	MANUFACTURER	SERIAL NUMBER	LOCATION	SIZE	FREON TYPE
004HVU017	HEATING/ VENTILATING UNIT	004		WADDELL ENG	K83E93686	BASIN	PC#31-9	
004HVU019	HEATING/ VENTILATING UNIT	004		WADDELL ENG	K83E93690	BASIN	PC#35-11	
004HVU022	HEATING/ VENTILATING UNIT	004		WADDELL ENG	K83E93694	BASIN	PC#41-18	
004HVU021	HEATING/ VENTILATING UNIT	004		WADDELL ENG	K83E93688	BASIN	PC#39-13	
004HVU024	HEATING/ VENTILATING UNIT	004		WADDELL ENG	K83E93697	BASIN	PC#45-15	
004HVU023	HEATING/ VENTILATING UNIT	004		WADDELL ENG	K83E93691	BASIN	PC#43-10	
004HVU026	HEATING/ VENTILATING UNIT	004		WADDELL ENG	K83E93684	BASIN	PC#49-3	
004HVU025	HEATING/ VENTILATING UNIT	004		WADDELL ENG	K83E93687	BASIN	PC#47-12	
019FCU024	FAN COIL UNIT	019	041-1R-F	AIRTHERM	1-96 STD	A125B	1 TON	
019HVU001	HEATING/ VENTILATING UNIT	019	IHI290-HJ	WESTINGHOUSE CORP		C-BAY	WGY4770	
019HVU002	HEATING/ VENTILATING UNIT	019	IHI290-HJ	WESTINGHOUSE CORP		C-BAY	WGY4770	
019HVU003	HEATING/ VENTILATING UNIT	019	IHI290-HJ	WESTINGHOUSE CORP		C-BAY	WGY4770	
019HVU004	HEATING/ VENTILATING UNIT	019	IHI290-HJ	WESTINGHOUSE CORP		C-BAY	WGY4770	
019HVU005	HEATING/ VENTILATING UNIT	019	IHI290-HJ	WESTINGHOUSE CORP		C-BAY	WGY4770-22	
019HVU006	HEATING/ VENTILATING UNIT	019	IHI290-HJ	WESTINGHOUSE CORP		C-BAY	WGY4770-28	
019HVU007	HEATING/ VENTILATING UNIT	019	IHI290-HJ	WESTINGHOUSE CORP		C-BAY	WGY4770-26	
019HVU008	HEATING/ VENTILATING UNIT	019	IHI290-HJ	WESTINGHOUSE CORP		C-BAY	WGY4770-24	
019HVU009	HEATING/ VENTILATING UNIT	019	IH884-HJ	WESTINGHOUSE CORP		B-BAY	WGY4770-20	
019HVU010	HEATING/ VENTILATING UNIT	019	IH884-HJ	WESTINGHOUSE CORP		B-BAY	WGY4770-18	
019HVU011	HEATING/ VENTILATING UNIT	019	IH884-HJ	WESTINGHOUSE CORP		B-BAY	WGY4770-19	

ATTACHMENT C.12-8 HVAC AND REFRIGERATION INVENTORY

EQUIPMENT NUMBER	EQUIPMENT NAME	BLDG #	MODEL	MANUFACTURER	SERIAL NUMBER	LOCATION	SIZE	FREON TYPE
018HVU001	HEATING/ VENTILATING UNIT	018	F 13 3	MARLO COIL CO.	M61607			
018HVU002	HEATING/ VENTILATING UNIT	018	F 13 3	MARLO COIL CO	M61607			
018HVU027	HEATING/ VENTILATING UNIT	018	F 13 3	MARLO COIL CO	M61607			
018HVU004	HEATING/ VENTILATING UNIT	018	F 13 3	MARLO COIL CO	M61607			
018HVU005	HEATING/ VENTILATING UNIT	018	F 13 3	MARLO COIL CO	M61607			
018HVU006	HEATING/ VENTILATING UNIT	018	F 13 3	MARLO COIL CO	M61607			
018HVU007	HEATING/ VENTILATING UNIT	018	F 13 3	MARLO COIL CO	M61607			
018HVU008	HEATING/ VENTILATING UNIT	018	F 13 3	MARLO COIL CO	M61607			
018HVU009	HEATING/ VENTILATING UNIT	018	F 13 3	MARLO COIL CO	M61607			
018HVU010	HEATING/ VENTILATING UNIT	018	F 13 3	MARLO COIL CO	M61607			
018HVU012	HEATING/ VENTILATING UNIT	018	F 13 3	MARLO COIL CO	M61607			
018HVU011	HEATING/ VENTILATING UNIT	018	F 13 3	MARLO COIL CO	M61607			
018HVU013	HEATING/ VENTILATING UNIT	018	F 13 3	MARLO COIL CO	M61607			
018HVU014	HEATING/ VENTILATING UNIT	018	F 13 3	MARLO COIL CO	M61607			
018HVU015	HEATING/ VENTILATING UNIT	018	F 13 3	MARLO COIL CO	M61607			
018HVU016	HEATING/ VENTILATING UNIT	018	F 13 3	MARLO COIL CO	M61607			
018HVU017	HEATING/ VENTILATING UNIT	018	F 13 3	MARLO COIL CO	M61607			
018HVU020	HEATING/ VENTILATING UNIT	018	F 13 3	MARLO COIL CO	M61607			
018HVU021	HEATING/ VENTILATING UNIT	018	F 13 3	MARLO COIL CO	M61607			
018HVU019	HEATING/ VENTILATING UNIT	018	F 13 3	MARLO COIL CO	M61607			

ATTACHMENT C.12-8 HVAC AND REFRIGERATION INVENTORY

EQUIPMENT NUMBER	EQUIPMENT NAME	BLDG #	MODEL	MANUFACTURER	SERIAL NUMBER	LOCATION	SIZE	FREON TYPE
018HVU023	HEATING/ VENTILATING UNIT	018	F 13 3	MARLO COIL CO	M61607			
018HVU024	HEATING/ VENTILATING UNIT	018	F 13 3	MARLO COIL CO	M61607			
018HVU025	HEATING/ VENTILATING UNIT	018	F 13 3	MARLO COIL CO	M61607			
018HVU026	HEATING/ VENTILATING UNIT	018	F 13 3	MARLO COIL CO	M61607			
018HVU028	HEATING/ VENTILATING UNIT	018	F 13 3	MARLO COIL CO	M61607			
018HVU029	HEATING/ VENTILATING UNIT	018	F 13 3	MARLO COIL CO	M61607			
018HVU030	HEATING/ VENTILATING UNIT	018	F 13 3	MARLO COIL CO	M61607			
004HVU020	HEATING/ VENTILATING UNIT	004		WADDELL ENG		BASIN	PC#37-17	
003AHU003	AIR HANDLER	003	HSA1LLAF	TRANE	K89M37316	OVER R138	5 TON	R22
004CUA008	COND. UNIT-AIR	004	38YCB060500	CARRIER	1096E00187	4E/E.GRD	5 TON	R22
004AHU008	AIR HANDLER	004	FB4ANF060	CARRIER	3096A17024	4E/RM 307	5 TON	R22
004CUA009	COND. UNIT-AIR	004	38AQS008000501	CARRIER	3296G00580	4E/E.GRD	7.5 TON	R22
004AHU009	AIR HANDLER	004	40RMQ00800B600HC	CARRIER	4696F40700	4E/RM 309	7.5 TON	R22
004CUA010	COND. UNIT-AIR	004	38YBC060500	CARRIER	2896E01822	4E/N.GRD	5 TON	R22
004AHU010	AIR HANDLER	004	FB4ANF060	CARRIER	3696A21975	4E/RM 109E	5 TON	R22
060AHU001	AIR HANDLER	060	MCCA080GAJ0ABC000 R0ECA00A0A0000AD00-	TRANE	K95D29090	PENTHOUSE	75HP	
060AHU003	AIR HANDLER	060	MCCA080GAJ0ABC000 R0ECA00A0A0000BD00-	TRANE	K95C24169	PENTHOUSE	75HP	
060VFD001	VARIABLE FREQUENCY DRIVE	060	2001H96	GRAHAM	G4568-05-1-CT	PENTHOUSE		
013CUA002	COND. UNIT-AIR	013	PUH42EK	MITSUBISHI	35000250C	ROOF WEST	3.5 TON	R-22
013CUA003	COND. UNIT-AIR	013	PUH42EK	MITSUBISHI	35000241C	ROOF CENTER	3.5 TON	R-22
013CUA005	COND. UNIT-AIR	013	PUH42EK	MITSUBISHI	35000274D	ROOF EAST	3.5 TON	R-22
013FCU001	FAN COIL UNIT "WINTER ONLY"	013		AIRTERM		RECEPT CEILING		

ATTACHMENT C.12-8 HVAC AND REFRIGERATION INVENTORY

EQUIPMENT NUMBER	EQUIPMENT NAME	BLDG #	MODEL	MANUFACTURER	SERIAL NUMBER	LOCATION	SIZE	FREON TYPE
019CTR003	COOLING TOWER	019	VXT-45C	BAC	84-6113	W.OF B-BAY		
060VFD002	VARIABLE FREQUENCY DRIVE	060	2001H96	GRAHAM	G4568-05-2-CT	PENTHOUSE		
060AHU002	AIR HANDLER	060	MCCA080GAJ0ABC000 R0ECA00A0A0000BD00-	TRANE	K95D29399	PENTHOUSE	75HP	
017FAV001	FRESH AIR VENT	017			?	17W/120	100% OA	
018AHU001	AIR HANDLER	018	N4AHD16A06A	YORK	EEBS134547	MN FRONT ENT	4 TON	R22
018AHU006	AIR HANDLER	018	TWE060A300AB	TRANE	F05171426	129 S. MECH	5 TON	R22
018CUA001	COND. UNIT-AIR	018	E1FB048506A (HT PU	YORK	EECM217415	EAST OUTSIDE	4 TON	R22
018AHU008	AIR HANDLER	018	BWE060C300GA	TRANE	C09174844	127 MECH	5 TON	R22
T40PUA001	PKG UNIT-AIR	T40	AVP36HPA-10N0-G90A	CRISPAIRE/MARVAIRE		SOUTH	3 TON	R22
T40PUA002	PKG UNIT-AIR	T40	AVP36HPA-10N0-G90A	CRISPAIRE/MARVAIRE		SOUTH	3 TON	R22
T40PUA003	PKG UNIT-AIR	T40	AVP36HPA-10N0-G90A	CRISPAIRE/MARVAIRE		SOUTH	3 TON	R22
T40PUA004	PKG UNIT-AIR	T40	AVP36HPA-10N0-G90A	CRISPAIRE/MARVAIRE		SOUTH	3 TON	R22
T40PUA005	PKG UNIT-AIR	T40	AVP36HPA-10N0-G90A	CRISPAIRE/MARVAIRE		SOUTH	3 TON	R22
T40PUA006	PKG UNIT-AIR	T40	AVP36HPA-10N0-G90A	CRISPAIRE/MARVAIRE		SOUTH	3 TON	R22
T40PUA007	PKG UNIT-AIR	T40	AVP36HPA-10N0-G90A	CRISPAIRE/MARVAIRE		SOUTH	3 TON	R22
060VFD003	VARIABLE FREQUENCY DRIVE	060	VLT3500H96	GRAHAM/DANFOSS	103501TS-1-1-CY	PENTHOUSE		
019CUA016	COND. UNIT-AIR	019	SCC12DDA000AA0A	ENVIROMASTER INTERN	1-97-B-7770-06	ROOF B-DOCK	1 TON	R22
019CUA017	COND. UNIT-AIR	019	SCC18DFA000AA0A	ENVIROMASTER INTERN	1-97-E-5360-22	ROOF B-DOCK	1.5 TON	R22
019AHU032	AIR HANDLER	019	WSP12D050AA000A	ENVIROMASTER INTERN	1-97-F-7858-27	B-103	1 TON	R22
019AHU033	AIR HANDLER	019	WSP18D050AA000A	ENVIROMASTER INTERN	1-97-G-8001-27	B-111	1 TON	R22
001FCU041	FAN COIL UNIT	001		DUNHAM-BUSH		210		
001FCU042	FAN COIL UNIT	001		DUNHAM-BUSH		N. OF 210		
001FCU043	FAN COIL UNIT	001		DUNHAM-BUSH		212		
001FCU044	FAN COIL UNIT	001		DUNHAM-BUSH		212		
001FCU045	FAN COIL UNIT	001		DUNHAM-BUSH		205		
001FCU046	FAN COIL UNIT	001		DUNHAM-BUSH		205		
001FCU047	FAN COIL UNIT	001		DUNHAM-BUSH		205		
001FCU043A	FAN COIL UNIT	001		DUNHAM-BUSH		212		
001FCU044A	FAN COIL UNIT	001		DUNHAM-BUSH		212		
001FCU048	FAN COIL UNIT	001		DUNHAM-BUSH		E. MEZZ S.		
001FCU049	FAN COIL UNIT	001		DUNHAM-BUSH		E. MEZZ S.		

ATTACHMENT C.12-8 HVAC AND REFRIGERATION INVENTORY

EQUIPMENT NUMBER	EQUIPMENT NAME	BLDG #	MODEL	MANUFACTURER	SERIAL NUMBER	LOCATION	SIZE	FREON TYPE
001FCU050	FAN COIL UNIT	001		DUNHAM-BUSH		E. MEZZ S.		
001FCU051	FAN COIL UNIT	001		DUNHAM-BUSH		E. MEZZ S.		
001FCU052	FAN COIL UNIT	001		DUNHAM-BUSH		E. MEZZ S.		
001FCU053	FAN COIL UNIT	001		DUNHAM-BUSH		E. MEZZ N.	CABINET	
001FCU054	FAN COIL UNIT	001		DUNHAM-BUSH		E. MEZZ N.		
001FCU055	FAN COIL UNIT	001		DUNHAM-BUSH		E. MEZZ N.	DESK	
001FCU056	FAN COIL UNIT	001		DUNHAM-BUSH		E. MEZZ N.	DESK	
001FCU???	FAN COIL UNIT	001				207		
001FCU021	FAN COIL UNIT	001				209		
001FCU020	FAN COIL UNIT	001				213		
001FCU019	FAN COIL UNIT	001				217 EAST		
001FCU018	FAN COIL UNIT	001				217 WEST		
001FCU040	FAN COIL UNIT	001				218M	DESK	
001FCU040A	FAN COIL UNIT	001				218M NW OF		
001FCU040B	FAN COIL UNIT	001				218M NE OF	DESK	
001FCU057	FAN COIL UNIT	001		AIRTHERM		MEZZ CONFERENCE		
001FCU058	FAN COIL UNIT	001		AIRTHERM		MEZZ CONFERENCE		
001FCU??	FAN COIL UNIT	001				215M N WALL		
002FCU008A	FAN COIL UNIT	002		TRANE		104 OFF S.		
002FCU060A	FAN COIL UNIT	002		TRANE		314D WEST		
002FCU065A	FAN COIL UNIT	002		TRANE		319		
001CHP007	CHILLED WATER PUMP	001		BELL & GOSSETT		W. OF 4W		
002AHU009	AIR HANDLER	002	TWE060150A1	TRANE	M052S3E1V	331 CLOSET	5 TON	R22
002CUA002	COND. UNIT-AIR	002	TTA060C300A0	TRANE	L375WACBF	ROOF EAST	5 TON	R22
002AHU010	AIR HANDLER	002	TWE0601D150A1	TRANE	M271PNC1V	331CEILING	5 TON	R22
002CUA003	COND. UNIT-AIR	002	TTA048C300A0	TRANE	M1841YK13F	ROOF EAST	4 TON	R22
001FAV001	FRESH AIR VENT	001	8100	RESEARCH PRODUCTS C	112B16	BASEMENT BAT F	120CFM	
001FCU059	FAN COIL UNIT	001		AIRTHERM		215M S WALL		
001FCU060	FAN COIL UNIT	001		AIRTHERM		215M N WALL	DESK	
001FCU061	FAN COIL UNIT	001		AIRTHERM		215M-A		
001PUW-TEMP	PKG UNIT-WATER	001	WCDVD01911 E20AA010000000000	TRANE	W96K38153	215M	2 TON	R22
001AHU017	AIR HANDLER	001		ENVIROMASTER INTERNATIONAL		18		R-22
001AHU018	AIR HANDLER	001		ENVIROMASTER INTERNATIONAL		18 CAL RM		R22

ATTACHMENT C.12-8 HVAC AND REFRIGERATION INVENTORY

EQUIPMENT NUMBER	EQUIPMENT NAME	BLDG #	MODEL	MANUFACTURER	SERIAL NUMBER	LOCATION	SIZE	FREON TYPE
001CUA010	COND. UNIT-AIR	001		ENVIROMASTER INTERNATIONAL		B-14 ROOF		R22
001CUA011	COND. UNIT-AIR	001		ENVIROMASTER INTERNATIONAL		B-14 ROOF		R22
010AHU003	AIR HANDLER	010	F-RP036H06A	YORK	EEFS134362	LAB 1ST FL	4 TON	R22
010CUA003	COND. UNIT-AIR	010	H2RA030S06A	YORK	EFFM22690	N. OUTSIDE	2.5 TON	R22
020PUG001	PKG UNIT-AIR/GAS	020	YCH048C3H0BE	TRANE	M42103286D	ROOF EAST	4 TON	R22
020PUG002	PKG UNIT-AIR/GAS	020	YCH090D3H0BE	TRANE	M43103122D	ROOF WEST	7.5 TON	R22
020HUM001	HUMIDIFIER	020	224 (BYPASS)	RESEARCH PRODUCTS (APRILAIRE)		PHONE RM		
010MAU001	MAKEUP AIR UNIT	010				LAB 1ST FL		
012AHU001	AIR HANDLER	012	CSI50SHFCII10X9	YORK	CGFM-019913	BSMT CENTER		
012AHU002	AIR HANDLER	012	CA0060836.25 X070G020S035WH06 L	YORK	DFFM-30078B	SE SUB-ROOF		
012AHU003	AIR HANDLER	012	B2BM060K-C	MILLER (INTERTHERM)	B2B9610-02524	HI SUB-ROOF	5 TON	R22
012CUA001	COND. UNIT-AIR	012	T3BC-048K	MILLER	T3B9602-00519	S. OUTSIDE	4 TON	R22
012CUA002	COND. UNIT-AIR	012	T3BC-048K	MILLER	T3B9605-23518	N. OUTSIDE	4 TON	R22
012CUA003	COND. UNIT-AIR	012	T3BC-036K	MILLER	T3B9601-10215	N. OUTSIDE	3 TON	R22
012AHU004	AIR HANDLER	012	B2BM060K-C	MILLER (INTERTHERM)	B2B9610-02529	HI SUB-ROOF	TON	R22
012AHU005	AIR HANDLER	012	B2BM060K-C	MILLER (INTERTHERM)	B2B9610-02527	HI SUB-ROOF	5 TON	R22
012AHU006	AIR HANDLER	012	MSH15NN	MITSUBISHI	7000068T	SW MOD LAB	1.3 TON	R22
012CUA004	COND. UNIT-AIR	012	MUH15NN	MITSUBISHI	7000091T	S. OUTSIDE	1.3 TON	R22
013AHU007	AIR HANDLER	013	5B4ANF060	CARRIER	1997A18478	5	5 TON	R=22
013CUA007	COND. UNIT-AIR	013	38CKB060500	CARRIER	1197E16822	NORTH OUTS	5 TON	R-22
121WAC002	WINDOW A/C	121	SL24H30	FRIEDRICH	90FS06273	214		
129GFN001	GAS FURNACE	129	NUGI125DH03		L913319802	NORTH LOFT		R22
129GFN002	GAS FURNACE	129	NUGI125DH03	????	L913319814	PIPE SHOP		
128GFN001	GAS FURNACE	128	58WAV155-20	CARRIER	0399A04426/SERIES	MECH ROOM	154K BTU INPUT	
126GFN001	GAS FURNACE	126	58GS200LA	CARRIER	3091A08180	FRONT ENTRANC	200K BTU INPUT	
024WAC001	WINDOW A/C	024	WW121T	COMFORT AIRE	28909249529	???		
024FCU001	FAN COIL UNIT	024	PTEB09010F	TRANE	A94C02128	???		
003FCU027A	FAN COIL UNIT	003		TRANE		150		
003FCU027B	FAN COIL UNIT	003		TRANE		150		
015FCU010	FAN COIL UNIT	015		TRANE (HEAT ONLY)		126CEILING		
004CUA005	COND. UNIT-AIR	004	RAUC-306-A	TRANE	078A-15721	4E/E.GRD	3 TON	R22
004CUA006	COND. UNIT-AIR	004	RAUC-306-A	TRANE	078A-15721	4E/E.GRD	3 TON	R22
004AHU005	AIR HANDLER	004		TRANE		4E/BST CAGE	3 TON	R22

ATTACHMENT C.12-8 HVAC AND REFRIGERATION INVENTORY

EQUIPMENT NUMBER	EQUIPMENT NAME	BLDG #	MODEL	MANUFACTURER	SERIAL NUMBER	LOCATION	SIZE	FREON TYPE
017HWR001	HOT WATER RADIATOR	017		TRANE		17W/N.STRW		
017HWR002	HOT WATER RADIATOR	017		TRANE		17W/N.STRW		
017HWR003	HOT WATER RADIATOR	017		TRANE		17W/1F MBR		
017HWR004	HOT WATER RADIATOR	017		TRANE		17W/SW STAIR		
017HWR005	HOT WATER RADIATOR	017		TRANE		17W/SW STAIR		
017HWR006	HOT WATER RADIATOR	017		TRANE		17W/2N MBR		
017HWR007	HOT WATER RADIATOR	017		TRANE		17W/2N WBR		
017HWR008	HOT WATER RADIATOR	017		TRANE		17W/SE STAIR		
017HWR009	HOT WATER RADIATOR	017		TRANE		17W/SE STAIR		
143WAC008	WINDOW A/C	143	12C3EW (ELE HT)	AMANA	9605279190	N.CTR.OFFICE	11800 BTU	
143WAC009	WINDOW A/C	143	9C3EW (ELE HT)	AMANA	9610161090	N.CTR.OFFICE	9000 BTU	
018AHU009	AIR HANDLER	018		LUXAIRE		NEW/E.BAY	7.5 TON	R22
018CUA013	COND. UNIT-AIR	018	HDHB-T090AA	LUXAIRE	NKEM111249	NEW/E.BAY	7.5 TON	R22
018PUA001	PKG UNIT-AIR	018	PTC153A35AB	AMANA	9907246766	110CTRL RM	1.1 TON	R22
018WAC022	WINDOW A/C	018		AMANA		212CTRL RM		
018WAC023	WINDOW A/C	018		AMANA		212CTRL RM		
052GFN001	GAS FURNACE	052	G5RC120C-21	MILLER	G5R9512-01073	N. MECH RM	120K INPUT @ 9	R22
052CUA001	COND. UNIT-AIR	052	S3BA-060K	MILLER	S3B9603-12893	N. OUTSIDE	5 TON	R22
060CCU001	COMPUTER A/C	060	CSWC400-40N-12	PAMONA	9952971	MOORE R150	5HP	R22
060CCU002	COMPUTER A/C	060	CSWC1000U-40N-151	PAMONA	9952972	CTRL RM150	5HP	R22
060PUA001	PKG UNIT-AIR	060	PTEB15010F	TRANE	A95B01164	PH ELEVATOR RM	15000 BTU	R22
060CCU003	COMPUTER A/C	060	MME018C	LIEBERT		404	18000 BTU	
060CCU004	COMPUTER A/C	060		LIEBERT		256	17700 BTU	
060RAF001	RETURN AIR FAN	060	54-BISW-10-CCW-UB-	GREENHECK	95B01371	PENTHOUSE		
060RAF002	RETURN AIR FAN	060	54-BISW-10-CW-UB-1-	GREENHECK	95B00530	PENTHOUSE		
060EXF001	EXHAUST FAN	060	54-BISW-10-CW-UB-I-	GREENHECK	95A16450	PENTHOUSE		
060AHU004	AIR HANDLER	060	MCCA080GAJ0ABC000 R0ECA00A0A0000AD00-	TRANE	K95D29736	PENTHOUSE		
060AHU005	AIR HANDLER	060	MCCA080GAJ0ABC000 R0ECA00A0A0000BD00-	TRANE	K95D24161	PENTHOUSE	75HP	
060VFD009	VARIABLE FREQUENCY DRIVE	060	PC3-43P7 CIMR PCU43P7		953247951 N4W050	150		

ATTACHMENT C.12-8 HVAC AND REFRIGERATION INVENTORY

EQUIPMENT NUMBER	EQUIPMENT NAME	BLDG #	MODEL	MANUFACTURER	SERIAL NUMBER	LOCATION	SIZE	FREON TYPE
060VFD008	VARIABLE FREQUENCY DRIVE	060	PC3-43P7/CIMR-PCU43P7		953247952/N4W050	150		
060VFD007	VARIABLE FREQUENCY DRIVE	060	2001H40	GRAHAM	G4568-03-4-CT	PENTHOUSE		
060VFD006	VARIABLE FREQUENCY DRIVE	060	2001H40	GRAHAM	G4568-03-3-CT	PENTHOUSE		
060VFD004	VARIABLE FREQUENCY DRIVE	060	2001H96	GRAHAM	G4568-05-4-CT	PENTHOUSE		
060VFD005	VARIABLE FREQUENCY DRIVE	060	2001H96	GRAHAM	G4568-05-5-CT	PENTHOUSE		
060HRP001	HEAT RECOVERY PUMP	060	309CV-50P54	WEINMAN	84752	PENT AHU3	5HP	
060HRP002	HEAT RECOVERY PUMP	060	309CV-50P54	WEINMAN	847451	PENT AHU4		
060HRP003	HEAT RECOVERY PUMP	060	309CV-50P54	WEINMAN	847453	PENT AHU5		
060CHP001	CHILLED WATER PUMP	060	6L2150P14G (PRIM)	WEINMAN	T504176	PENTHOUSE	15HP	
060CHP002	CHILLED WATER PUMP	060	6L2150P14G (PRIM)	WEINMAN		PENTHOUSE	15HP	
060CHP003	CHILLED WATER PUMP	060	6L2150P14G (PRIM)	WEINMAN		PENTHOUSE	15HP	
060CSP001	COOLING SECONDARY PUMP	060	6L2-300P14G	WEINMAN	503937	PENTHOUSE	30HP	
060CSP002	COOLING SECONDARY PUMP	060	6L2-300P14G	WEINMAN		PENTHOUSE	30HP	
060PWP001	PROCESS WATER PUMP	060		WEINMAN		PENTHOUSE	15HP	
060PWP002	PROCESS WATER PUMP	060		WEINMAN		PENTHOUSE	15HP	
060EWP001	ECONOMIZER WATER PUMP	060	4L2-150P14G	WEINMAN	503933	PENTHOUSE	15HP	
060VFD010	VARIABLE FREQUENCY DRIVE	060	2001H40	GRAHAM	G4568-03-1-CT	PENTHOUSE		
060VFD011	VARIABLE FREQUENCY DRIVE	060	2001H40	GRAHAM	G4568-03-2-CT	PENTHOUSE		
060VFD012	VARIABLE FREQUENCY DRIVE	060	2001H21	GRAHAM	G4568-04-1-CT	PENTHOUSE		
060VFD013	VARIABLE FREQUENCY DRIVE	060	VLT3500H22	GRAHAM/DANFOSS	103290TS-4-2-BY	PENTHOUSE		
060CWP001	COND. WATER PUMP	060	6L2-600P14G	WEINMAN	503943	365	60HP	
060CWP002	COND. WATER PUMP	060	6L2-600P14G	WEINMAN	503941	365	60HP	
060CWP003	COND. WATER PUMP	060	6L2-600P14G	WEINMAN	503942	365	60HP	
060VFD014	VARIABLE FREQUENCY DRIVE	060	2001H77	GRAHAM	G4568-02-1-CT	PENTHOUSE		
060COM001	AIR COMPRESSOR	060	20DT10E	CURTIS	30X73	365		

ATTACHMENT C.12-8 HVAC AND REFRIGERATION INVENTORY

EQUIPMENT NUMBER	EQUIPMENT NAME	BLDG #	MODEL	MANUFACTURER	SERIAL NUMBER	LOCATION	SIZE	FREON TYPE
060RAD001	AIR DRYER	060	A-4417-2	JOHNSON	???	365		
060WCW001	CHILLER-WATER COOLED	060	CVHE050FA2D03U P2456R1EGN1A00000 00VA0	TRANE	L95E05573	PENTHOUSE	500 TON	R123
060WCW002	CHILLER-WATER COOLED	060	CVHE050FA2D03U P2456R1EGN1A00000 00VA0	TRANE	L95E05572	PENTHOUSE	500 TON	R123
060PUA002	PKG UNIT-AIR	060	SFHFC304LE10E6CD1	TRANE	J95A70163	HI BAY ROOF	30 TON	R22
060PUA003	PKG UNIT-AIR	060	SFHFC304LE10E6CD1	TRANE	J95A70162	HI BAY ROOF	30 TON	
060PUA004	PKG UNIT-AIR	060	SFHFC304LE10E6CD1	TRANE	J95A70164	HI BAY ROOF	30 TON	
060CTR001	COOLING TOWER	060	3269-2X	BAC	94401344	HI BAY ROOF	500 TON	
060CTR002	COOLING TOWER	060	3269-2X	BAC	94401345	HI BAY ROOF	500 TON	
060HWP001	HEATING PUMP	060	1000-(2-1/3)X3X4	ALYAN	139.55	PENTHOUSE	10HP	
060HWP002	HEATING PUMP	060	1000-(2-1/3)X3X4	ALYAN	139.55	PENTHOUSE	10HP	
060VFD015	VARIABLE FREQUENCY DRIVE	060	VLT3500H65	GRAHAM/DANFOSS	G4568-01-3-CT/ DANFOSS 010917G168	PENTHOUSE		
060EXF002	EXHAUST FAN	060	54-BISW-10-CW-UB-I-/	GREENHECK	95B00531	PENTHOUSE		
060VFD016	VARIABLE FREQUENCY DRIVE	060	VLT3500H65	GRAHAM/DANFOSS	G4568-01-1-CT/ DANFOSS 012117G208	PENTHOUSE		
060EXF003	EXHAUST FAN	060	54-BISW-10-CW-UB-I-/	GREENHECK	95B00532	PENTHOUSE		
060VFD017	VARIABLE FREQUENCY DRIVE	060	2001H65	GRAHAM	G4568-01-2-CT	PENTHOUSE		
060FCU001	FAN COIL UNIT	060	FCCB0801D0	TRANE	E2E015AB	200		
060FCU002	FAN COIL UNIT	060	FCEB0401DOC0006K0	TRANE	E2D932AK	W. CONF 2ND		
060FCU003	FAN COIL UNIT	060		TRANE		300		
060FCU004	FAN COIL UNIT	060		TRANE		340		
060CUH001	CABINET UNIT HEATER	060	FFHB0401D...	TRANE	T95E81224	S. STAIRS		
060CUH002	CABINET UNIT HEATER	060	FFHB0301D...	TRANE	T95E81226	NE. VESTIBULE		
060CUH004	CABINET UNIT HEATER	060	FFHB0301D...	TRANE	T95E81228	NW. VESTIBULE		
060CUH003	CABINET UNIT HEATER	060	FFHB0301D...	TRANE	T95E81225	SE. VESTIBULE		
060CUH005	CABINET UNIT HEATER	060	FFHB0301D...	TRANE	T95E81227	SE. VESTIBULE		
060CUH006	CABINET UNIT HEATER	060	FFHB0401D...	TRANE	T95E81229	N. STAIRS		
060CUH007	CABINET UNIT HEATER	060	FFHB0401D...	TRANE	T95E81230	N. STAIRWAY ENT.		
060CUH008	CABINET UNIT HEATER	060	FFHB0401D...	TRANE	T95E81231	HI BAY ENT		
060HWB001	HOT WATER BOILER	060	SPWV-60-N 148881	DONLEE TECH INC.	95-19498 H-10489	PENTHOUSE		

ATTACHMENT C.12-8 HVAC AND REFRIGERATION INVENTORY

EQUIPMENT NUMBER	EQUIPMENT NAME	BLDG #	MODEL	MANUFACTURER	SERIAL NUMBER	LOCATION	SIZE	FREON TYPE
060VFD018	VARIABLE FREQUENCY DRIVE	060	3HX73	DAYTON	791232R026	PENTHOUSE		
060VFD019	VARIABLE FREQUENCY DRIVE	060	3HX73	DAYTON	791232R070	PENTHOUSE		
009COM001	AIR COMPRESSOR	009				MACHINE SHOP		
193PUA001	PKG UNIT-AIR	193	TCH150C300BA	TRANE	N08101334D	NE OUTSIDE	12.5 TON	R22
193PUA002	PKG UNIT-AIR	193	TCH120C300AA	TRANE	N15100790D	S. OUTSIDE	10 TON	R22
193PUA003	PKG UNIT-AIR	193	TCH060C300BC	TRANE	N14101827D	W. OUTSIDE	5 TON	R22
193HUM001	HUMIDIFIER	193	60-2	SCUTTLE		NE MECH CLOSET		
193HUM002	HUMIDIFIER	193	60-2	SCUTTLE		S MECH CLOSET		
193HUM003	HUMIDIFIER	193	60-2	SCUTTLE		W MECH CLOSET		
032PUG001	PKG UNIT-AIR/GAS	032	YCD121C3L0AA	TRANE	N17103725D	ROOF SOUTH	10 TON	R22
032PUG002	PKG UNIT-AIR/GAS	032	YCD121C3L0AA	TRANE	N17103726D	ROOF NORTH	10 TON	R22
129WAC001	WINDOW A/C	129	???			S. OFFICE	.5 TON	
129CUA001	COND. UNIT-AIR	129		TRANE		N. OUTSIDE	3 TON	
003CUA005	COND. UNIT-AIR	003	MC2D9900AA00A0J	ENVIROMASTER INTERN	1-98-F-9022-24	REAR EXIT	1.5 TON	R22
003AHU008	AIR HANDLER	003	WSP12A060BA000A	ENVIROMASTER INTERN	1-98-E-6840-19	108A	.03HP	R22
003AHU009	AIR HANDLER	003	WSP12A060BA000A	ENVIROMASTER INTERN	1-98-E-6841-19	108B	9000 BTU	R22
013RCA001	REF. CONDENSER-AIR	013	CDF308LY	LEIBERT	96040374	NORTH OUTS	20 TON	R-22
060CUA001	COND. UNIT-AIR	060	SHC36DEA000AA0A	ENVIROMASTER INTERN	1-98-A-9493-04	SOUTH ROOF	3 TON	R22
060AHU006	AIR HANDLER	060	FLH42D710A00E0B	ENVIROMASTER INTERN	1-98-K-7873-42	400	3 TON	R22
018GDC004	DRY COOLER	018		LARKIN		141C ROOF	> 5 TONS	
018GLP004	GLYCOL PUMP	018				141C ROOF		
013FAV001	FRESH AIR VENT	013	8100	RESEARCH PRODUCTS CORP.		RM 3	120CFM	
001CPL001	CONTROL PANEL	001	X13650529-01 (REV 10	TRANE VARI TRAC	E98K07094	WEST MEZZ	14 VAV'S	
018CPL001	CONTROL PANEL	018		WATTMASTER AUTO-ZONE		129 N	3 ZONES	
004PUA008	PKG UNIT-AIR	004	AZ22E12D3BM	GENERAL ELECTRIC	HT626115	4E/SEE NPL	1 TON	R-22
004WAC036	WINDOW A/C	004	HBJ175	HAMPTON BAY	BJ622352-0387	4E/RM 115		
004WAC035	WINDOW A/C	004	HB100	HAMPTON BAY	DH586465-1946	4E/RM 115A		
004WAC034	WINDOW A/C	004	HBJ175	HAMPTON BAY	BJ622360-0387	4E/RM 115A		
004WAC023	WINDOW A/C	004	HB0100	HAMPTON BAY	LH297187-3206	4E/RM 115B		
004WAC024	WINDOW A/C	004	HBJ175	HAMPTON BAY	BJ622362-0387	4E/RM 115C		
106PUA001	PKG UNIT-AIR	106	WCC060F300BE	TRANE	P043X722H	OUTSIDE S.	5 TON	R-22
004AHU011	AIR HANDLER	004	TWE060A300CA	TRANE	N293PWD5H	4E/BST OFF	5 TON	R-22
004CUA011	COND. UNIT-AIR	004	TWA060300A2	TRANE	N281KJRFF	4E/S.GRD	5 TON	R-22

ATTACHMENT C.12-8 HVAC AND REFRIGERATION INVENTORY

EQUIPMENT NUMBER	EQUIPMENT NAME	BLDG #	MODEL	MANUFACTURER	SERIAL NUMBER	LOCATION	SIZE	FREON TYPE
004CUA012	COND. UNIT-AIR	004	BMA6G3A10	UNITED COOL AIR CORP	990133	4E/S.GRD	6 TON	R-22
004AHU012	AIR HANDLER	004	EMA6G3A10	UNITED COOL AIR CORP	990133	4E/BST LAB	6 TON	R-22
004CUA013	COND. UNIT-AIR	004	BMA2G3AS05	UNITED COOL AIR CORP	990132	4E/S.GRD	2 TON	R-22
004AHU013	AIR HANDLER	004	EMA2GBAS05	UNITED COOL AIR CORP	990132	4E/BST LAB	2 TON	R-22
143WAC014	WINDOW A/C	143	EK12J33A	FRIEDRICH	JHES08077	SW.CENTER OFF	12500 BTU	
019AHU001	AIR HANDLER	019	MCCA006GAN0ABA000 E0CCA00A0A0000BA000	TRANE	K96J77559	A05	5 TON	
019FCU190	FAN COIL UNIT	019		TRANE		B229 CEILING		
019FCU191	FAN COIL UNIT	019		TRANE		B237 CEILING		
019FCU192	FAN COIL UNIT	019		TRANE		B239 CEILING		
019HVU012	HEATING/ VENTILATING UNIT	019	STYLE=4770-17 SIZE=16205 WGY	WESTINGHOUSE CORP		A09		
019HVU013	HEATING/ VENTILATING UNIT	019	NONE	BARRY BLOWER COMPA	27821	B01		
011AHU001	AIR HANDLER	011		TRANE	SEE NAMEPLATE	BSMT S. MECH. R	40 TON	R22
011CUA001	COND. UNIT-AIR	011	RAUCC40EET030BDF	TRANE	C99E07555M	S. OUTSIDE	40 TON	R22
011CPL001	CONTROL PANEL	011		DDC (BRAND UNKNOWN AT THIS TIME)				
001CUA012	COND. UNIT-AIR	001	MC4D08080F0F00F	ENVIROMASTER INTERN	1-99-B-4684-8	ROOF WEST	3 TON	R22
001AHU019	AIR HANDLER	001	WSP18D060AA000A	ENVIROMASTER INTERN	1-99-A-2369-4	200M VIDEO	1.5 TON	R22
001AHU020	AIR HANDLER	001	WSP18D060AA000A	ENVIROMASTER INTERN	1-99-A-2375-4	200M WEST	1.5 TON	R22
126WAC002	WINDOW A/C	126	AGFE909FAXP1	GENERAL ELECTRIC	EZ111205	WEST OFFICE		
127WAC002	WINDOW A/C	127	KL21H30	FREIDRICH	JBHS01493	WOOD SHOP		
129WAC003	WINDOW A/C	129	ACB12E5B	FEDDERS	0500-AC50666	LOCKER RM	1 TON	
103HVU001	HEATING/ VENTILATING UNIT	103		TRANE		KITCHEN CEILING		
007CUA007	COND. UNIT-AIR	007	38BA0095500	CARRIER	0891G55231	GRD. SW	8.5 TON	R22
007AHU007	AIR HANDLER	007	???	CARRIER		RM 133A	8.5 TON	R22
004VFD001	VARIABLE FREQUENCY DRIVE	004	???	YORK		2NF FL MEZZANINE		
121VFD001	VARIABLE FREQUENCY DRIVE	121	ISU24005	RELIANCE	01GN054544V003W	MECH CAGE		
019CUA018	COND. UNIT-AIR	019	SCC36DE0000AA0A	ENVIROMASTER INTERN	1-99-F-6320-26	ROOF B-WING	3 TON	R22
019AHU034	AIR HANDLER	019	CAH48D50000B	ENVIROMASTER INTERN	1-99-F-3576-23	B-261	3 TON	R22
019CUA019	COND. UNIT-AIR	019	38CK060660	CARRIER	2594E26108	E OF C-BAY	5 TON	R22
019AHU035	AIR HANDLER	019	TWG060A150B0	TRANE	P264K401Y	C-BAY CONTROL	5 TON	R22

ATTACHMENT C.12-8 HVAC AND REFRIGERATION INVENTORY

EQUIPMENT NUMBER	EQUIPMENT NAME	BLDG #	MODEL	MANUFACTURER	SERIAL NUMBER	LOCATION	SIZE	FREON TYPE
109PUA001	PKG UNIT-AIR	109	AZ22E12D3BM1	GENERAL ELECTRIC	FT631786	STAN'S OFF	1 TON	R-22
013AHU008	AIR HANDLER	013	BUP-5C	TRANE		8	5 TON	R=22
013CUA004	COND. UNIT-AIR	013	BUP-5C	TRANE		8	5 TON	R22
011HWP001	HEATING PUMP	011	5VK56TI7D5531B-P	B&G	PART#M99077	BSMT MECH		
011HWP002	HEATING PUMP	011		B&G		BSMT MECH		
011SMC001	STEAM CONVERTER	011	PART# BY5260060360	B&G	727452-08	BSMT MECH		
017SMC001	STEAM CONVERTER	017		TACO		17W BSMT. CG		
017SMC002	STEAM CONVERTER	017		TACO		17E BSMT. CG		
015SMC001	STEAM CONVERTER	015		TACO		NW BSMT		
019SMC001	STEAM CONVERTER	019				BSMT MECH		
003SMC001	STEAM CONVERTER	003				BSMT MECH		
002SMC001	STEAM CONVERTER	002				BSMT MECH		
011VFD001	VARIABLE FREQUENCY DRIVE	011	??			BSMT MECH		
021CCU002	COMPUTER A/C	021	42AP	BLAZER	80-8257-1-2	W. MECH RM	4 TON	R22
201AHU001	AIR HANDLER	201	TWE060P130A0	TRANE	N3918QY1V	BAY AREA	4 TON	R22
201CUA001	COND. UNIT-AIR	201	TWA048C300A3	TRANE	N331UPDFF	W OF B-BAY	4 TON	R22
004WAC037	WINDOW A/C	004		WHIRLPOOL		4E/COD5400		
019FCU184	FAN COIL UNIT	019		TRANE		B261		
019FCU185	FAN COIL UNIT	019		TRANE		B261		
061AHU001	AIR HANDLER	061	TWE060A400CA	TRANE	P262XTMCH	SHOP AREA	5 TON	R22
061CUA001	COND. UNIT-AIR	061	TWP060C100A6	TRANE	P264P3Y1F	N. OUTSIDE	5 TON	R22
061CUA002	COND. UNIT-AIR	061	TWP030C100A4	TRANE	P255LW7CF	N. OUTSIDE	5 TON	R22
061AHU002	AIR HANDLER	061	TWE030C140B0	TRANE	P2648AP1V	OFFICE AREA	2 TON	R22
107COM001	AIR COMPRESSOR	107		HONEYWELL		MECH ROOM		
001AHU001	AIR HANDLER	001	TWE120B300CA	TRANE	N3551JW5H	WEST MEZZ	10 TON	R22
157AHU001	AIR HANDLER	157	TWE090A300CA	TRANE	P2232WN5H	S. LOFT	7.5 TON	R22
157AHU002	AIR HANDLER	157	TWEE036C140B0	TRANE	P2322541V	S. LOFT	3 TON	R22
157AHU003	AIR HANDLER	157	TWE090A300CA	TRANE	P223L25A	S. LOFT	7.5 TON	R22
157AHU005	AIR HANDLER	157	TWE180B400CA	TRANE	P225YGG6H	N. LOFT	15 TON	R22
157AHU006	AIR HANDLER	157	TWE180B400CA	TRANE	P225YGG6H	N. LOFT	15 TON	R22
157CUA001	COND. UNIT-AIR	157	TWA090A400BC	TRANE	P222N0HAH	ROOF	7.5 TON	R22
157CUA002	COND. UNIT-AIR	157	TWR036C100A3	TRANE	P061R4RCF	ROOF	3 TON	R22
157CUA003	COND. UNIT-AIR	157	TWA090A400BC	TRANE	P232NNWAH	ROOF	7.5 TON	R22
157CUA005	COND. UNIT-AIR	157	TWA180B400BD	TRANE	P22519HAH	ROOF	15 TON	R22

ATTACHMENT C.12-8 HVAC AND REFRIGERATION INVENTORY

EQUIPMENT NUMBER	EQUIPMENT NAME	BLDG #	MODEL	MANUFACTURER	SERIAL NUMBER	LOCATION	SIZE	FREON TYPE
157CUA006	COND. UNIT-AIR	157	TWA180B400BD	TRANE	P225287AH	ROOF	15 TON	R22
013CUH001	CABINET UNIT HEATER	013		AIRTERM		RECEPT CEILING		
005CUH001	CABINET UNIT HEATER	005		TRANE		2ND FL NW	HEAT ONLY	
005CUH002	CABINET UNIT HEATER	005		TRANE		2ND FL NW		
157WCA001	CHILLER-AIR COOLED	157	CGAFC204ACD10000 FG0000000T0W00	TRANE	C99E07554M	ROOF	20 TON	R22
157CHP001	CHILLED WATER PUMP	157				N. LAB		
157CHP002	CHILLED WATER PUMP	157				N. LAB		
021CUH001	CABINET UNIT HEATER	021		TRANE		100	HEAT ONLY	
021CUH002	CABINET UNIT HEATER	021		TRANE		100	HEAT ONLY	
021CUH005	CABINET UNIT HEATER	021		TRANE		FRONT LOBBY	HEAT ONLY	
015CUA006	COND. UNIT-AIR	015	CL1211	SANYO	0028941	CENTER ROOF	1 TON	R22
015AHU006	AIR HANDLER	015	KS121W	SANYO	0193084	200 NW CORNER	1 TON	R22

ATTACHMENT C.12-9. BOTTLELESS WATER COOLER INVENTORY

ATTACHMENT C.12-9 BOTTLELESS WATER COOLER INVENTORY

Location	Description/No. of Units	Manufacturer	Model No.	Location/Floor	Property No.	Barcode No.
Bldg-1	One Bottleless Water Cooler	Putnam/OAS	POUISRHS-D203	Basement/Fitness Room		
Bldg-1	One Bottleless Water Cooler	Putnam/OAS		Basement/Proj. Rm 1		
Bldg-1	One Bottleless Water Cooler	Putnam/OAS		Basement/Proj. Rm 2		
Bldg-1	One Bottleless Water Cooler	Putnam/OAS		Wood Shop/1st Flr E		
Bldg-1	One Bottleless Water Cooler	Putnam/OAS		Wood Shop/1st Flr W		
Bldg-1	One Bottleless Water Cooler	Putnam/OAS		Secure Space/Mezzanine		
Bldg-1	One Bottleless Water Cooler	Putnam/OAS		Mach. Shop/2nd Flr		
Bldg-1	One Bottleless Water Cooler	Putnam/OAS		Vending Area/2nd Flr		
Bldg-1	One Bottleless Water Cooler	Putnam/OAS		East End/Mezzanine		
Bldg-1	One Bottleless Water Cooler	Putnam/OAS		West End/Mezzanine		
Bldg-2	One Bottleless Water Cooler	Putnam/OAS		Hallway/Base N		
Bldg-2	One Bottleless Water Cooler	Putnam/OAS		Command Briefing/1st Flr		
Bldg-2	One Bottleless Water Cooler	Putnam/OAS		Water Room/1st Flr		
Bldg-2	One Bottleless Water Cooler	Putnam/OAS		Kitchen/1st Flr		
Bldg-2	One Bottleless Water Cooler	Putnam/OAS		Hallway/2nd Flr		
Bldg-2	One Bottleless Water Cooler	Putnam/OAS		Coffee Mess/2nd Flr		
Bldg-3	One Bottleless Water Cooler	Putnam/OAS		Shaker Lab/Basement		
Bldg-3	One Bottleless Water Cooler	Putnam/OAS		Near Bathrms/1st Flr W		
Bldg-3	One Bottleless Water Cooler	Putnam/OAS		SE Entrance/1st Flr E		
Bldg-3	One Bottleless Water Cooler	Putnam/OAS		Room 253/2nd Flr E		
Bldg-3	One Bottleless Water Cooler	Putnam/OAS		Sec Area 243/2nd Flr		
Bldg-3	One Bottleless Water Cooler	Putnam/OAS		Near Bathrms/2nd Flr		
Bldg-3	One Bottleless Water Cooler	Putnam/OAS		Hall Room 355/3rd Flr		
Bldg-3	One Bottleless Water Cooler	Putnam/OAS		Hall Room 310/3rd Flr		
Bldg-3	One Bottleless Water Cooler	Putnam/OAS		Near Coffee Mess/3rd Flr		
Bldg-3	One Bottleless Water Cooler	Putnam/OAS		Between 1+2 Flr/MEZZANINE		
Bldg-4E	One Bottleless Water Cooler	Putnam/OAS		W/Ice Marker/N 1st Flr		
Bldg-4E	One Bottleless Water Cooler	Putnam/OAS		Hall/N 2nd Flr		
Bldg-4E	One Bottleless Water Cooler	Putnam/OAS		Candy Mach/E End		
Bldg-4E	One Bottleless Water Cooler	Putnam/OAS		Model Lab/East Basmt		
Bldg-4E	One Bottleless Water Cooler	Putnam/OAS		Cal Lab/East Basmt		
Bldg-4E	One Bottleless Water Cooler	Putnam/OAS		136/South 1st Flr		
Bldg-4E	One Bottleless Water Cooler	Putnam/OAS		211/South 2nd Flr		
Bldg-4E	One Bottleless Water Cooler	Putnam/OAS		West Fitg Rm/West Fit		
Bldg–6	One Bottleless Water Cooler	Putnam/OAS		1st Flr		

ATTACHMENT C.12-9 BOTTLELESS WATER COOLER INVENTORY

Location	Description/No. of Units	Manufacturer	Model No.	Location/Floor	Property No.	Barcode No.
Bldg-7	One Bottleless Water Cooler	Putnam/OAS		1st Flr South		
Bldg-7	One Bottleless Water Cooler	Putnam/OAS		1st Flr North		
Bldg-7	One Bottleless Water Cooler	Putnam/OAS		2nd Flr		
Bldg-7	One Bottleless Water Cooler	Culligan		West Side		
Bldg-8	One Bottleless Water Cooler	Spectrum		1st Flr		
Bldg-9	One Bottleless Water Cooler	Spectrum		Mach South/1st Flr		
Bldg-9	One Bottleless Water Cooler	Spectrum		Coffee Mess/1st Flr		
Bldg-9	One Bottleless Water Cooler	Spectrum		Sheet Metal S/1st Flr		
Bldg-9	One Bottleless Water Cooler	Spectrum		Break Rm/1st Flr		
Bldg-9	One Bottleless Water Cooler	Putnam/OAS		Welding S/1st Flr		
Bldg-10	One Bottleless Water Cooler	Putnam/OAS		Basement		
Bldg-10	One Bottleless Water Cooler	Putnam/OAS		1st Flr		
Bldg-10	One Bottleless Water Cooler	Putnam/OAS		2nd Flr		
Bldg-11	One Bottleless Water Cooler	Putnam/OAS		Basement		
Bldg-11	One Bottleless Water Cooler	Putnam/OAS		1st Floor		
Bldg-11	One Bottleless Water Cooler	Putnam/OAS		2nd Floor		
Bldg-12	One Bottleless Water Cooler	Spectrum		1st Floor		
Bldg-12	One Bottleless Water Cooler	Spectrum		2nd Floor		
Bldg-12	One Bottleless Water Cooler	Spectrum		2nd Floor		
Bldg-12	One Bottleless Water Cooler	Spectrum		Basement		
Bldg-13	One Bottleless Water Cooler	Spectrum		Basement		
Bldg-13	One Bottleless Water Cooler	Spectrum		1st Floor		
Bldg-13	One Bottleless Water Cooler	Spectrum		1st Floor		
Bldg-13	One Bottleless Water Cooler	Spectrum		2nd Floor		
Bldg-13	One Bottleless Water Cooler	Spectrum		2nd Floor		
Bldg-15	One Bottleless Water Cooler	Spectrum		1st Floor		
Bldg-15	One Bottleless Water Cooler	Spectrum		1st Floor		
Bldg-15	One Bottleless Water Cooler	Spectrum		2nd Floor		
Bldg-16	One Bottleless Water Cooler	Culligan		Channel Area/Basemt		
Bldg-16	One Bottleless Water Cooler	Culligan		Lobby/1st Floor		
Bldg-16	One Bottleless Water Cooler	Culligan		Channel Area/2nd Floor		
Bldg-17E	One Bottleless Water Cooler	Culligan		Basement		
Bldg-17E	One Bottleless Water Cooler	Culligan		1st Floor		
Bldg-17W	One Bottleless Water Cooler	Putnam/OAS		Comp Rm/1st Floor		
Bldg-17W	One Bottleless Water Cooler	Culligan		1st Floor		

ATTACHMENT C.12-9 BOTTLELESS WATER COOLER INVENTORY

Location	Description/No. of Units	Manufacturer	Model No.	Location/Floor	Property No.	Barcode No.
Bldg-17W	One Bottleless Water Cooler	Culligan		2nd Floor		
Bldg-18	One Bottleless Water Cooler	Culligan		East Side/1st Floor		
Bldg-18	One Bottleless Water Cooler	Putnam/OAS		N(Rm 106)/1st Floor		
Bldg-18	One Bottleless Water Cooler	Putnam/OAS		Room 141/1st Flr		
Bldg-18	One Bottleless Water Cooler	Putnam/OAS		S(Rm 174)/1st Flr		
Bldg-18	One Bottleless Water Cooler	Putnam/OAS		West Side/1st Flr		
Bldg-18	One Bottleless Water Cooler	Putnam/OAS		Room 241/2nd Flr		
Bldg-19 Bs	One Bottleless Water Cooler	Culligan		Room A-15/A-Bay		
Bldg-19	One Bottleless Water Cooler	Culligan		Vending Rm/C-Bay		
Bldg-19	One Bottleless Water Cooler	Culligan		B-19/B-Bay		
Bldg-19	One Bottleless Water Cooler	Putnam/OAS		Filter Only Ice Mach/A-Bay		
Bldg-19	One Bottleless Water Cooler	Putnam/OAS		Filter Only Sink/A-Bay		
Bldg-19 1s	One Bottleless Water Cooler	Culligan		Rm A-172/A-Bay		
Bldg-19 1s	One Bottleless Water Cooler	Culligan		C-Bay		
Bldg-19 1s	One Bottleless Water Cooler	Culligan		B-Bay		
Bldg-19 1s	One Bottleless Water Cooler	Culligan		Audit/B-143		
Bldg-19 1s	One Bottleless Water Cooler	Culligan		T-d into Coffee/B-127		
Bldg-19 1s	One Bottleless Water Cooler	Culligan		A-172		
Bldg-19 1s	One Bottleless Water Cooler	Culligan		Lobby		
Bldg-19 2n	One Bottleless Water Cooler	Culligan		B-265		
Bldg-19 2n	One Bottleless Water Cooler	Culligan		B-230		
Bldg-19 2n	One Bottleless Water Cooler	Culligan		A-228		
Bldg-20	One Bottleless Water Cooler	Putnam/OAS		1st Floor		
Bldg-22	One Bottleless Water Cooler	Culligan		1st Floor		
Bldg-29	One Bottleless Water Cooler	Spectrum		1st Floor		
Bldg-30	One Bottleless Water Cooler	Putnam/OAS		1st Floor		
Bldg-31	One Bottleless Water Cooler	Spectrum		1st Floor		
Bldg-32	One Bottleless Water Cooler	Putnam/OAS		1st Floor		
Bldg-60	One Bottleless Water Cooler	Spectrum		Anna Rm/1st Flr		
Bldg-60	One Bottleless Water Cooler	Spectrum		Kitchen/1st Flr		
Bldg-60	One Bottleless Water Cooler	Spectrum		Kitchen/2nd Flr		
Bldg-60	One Bottleless Water Cooler	Spectrum		Kitchen/3rd Flr		
Bldg-60	One Bottleless Water Cooler	Spectrum		Preston Kitchen/3rd Flr		
Bldg-61	One Bottleless Water Cooler	Putnam/OAS		1st Floor		
Bldg-100	One Bottleless Water Cooler	Spectrum		1st Floor		

ATTACHMENT C.12-9 BOTTLELESS WATER COOLER INVENTORY

Location	Description/No. of Units	Manufacturer	Model No.	Location/Floor	Property No.	Barcode No.
Bldg-103	One Bottleless Water Cooler	Culligan		1st Floor		
Bldg-103	One Bottleless Water Cooler	Putnam/OAS		Credit Union		
Bldg-104	One Bottleless Water Cooler	Putnam/OAS		1st Floor		
Bldg-108	One Bottleless Water Cooler	Putnam/OAS		Test Pond/1st Flr		
Bldg-111	One Bottleless Water Cooler	Putnam/OAS		CH1/1st Floor W		
Bldg-111	One Bottleless Water Cooler	Putnam/OAS		Tidewater/1st Flr E		
Bldg-112	One Bottleless Water Cooler	Putnam/OAS		1st Floor		
Bldg-113	One Bottleless Water Cooler	Putnam/OAS		1st Floor		
Bldg-116	One Bottleless Water Cooler	Putnam/OAS		Dive Locker/1st Floor		
Bldg-121	One Bottleless Water Cooler	Putnam/OAS		1st Flr N. Side		
Bldg-121	One Bottleless Water Cooler	Putnam/OAS		1st Flr S. Side		
Bldg-121	One Bottleless Water Cooler	Culligan		2nd Flr N. Side		
Bldg-121	One Bottleless Water Cooler	Putnam/OAS		2nd Flr S. Side		
Bldg-121	One Bottleless Water Cooler	Putnam/OAS		1st Flr W. Side		
Bldg-125	One Bottleless Water Cooler	Spectrum		1st Floor		
Bldg-126	One Bottleless Water Cooler	Putnam/OAS		Tuckers Area/1st Flr		
Bldg-128	One Bottleless Water Cooler	Spectrum		Pt/OAS. Filter/1st Flr		
Bldg-128	One Bottleless Water Cooler	Spectrum		Filter on Ice Maker/1st Flr		
Bldg-129	One Bottleless Water Cooler	Spectrum		1st Floor		
Bldg-143	One Bottleless Water Cooler	Putnam/OAS		East		
Bldg-143	One Bottleless Water Cooler	Putnam/OAS		West		
Bldg-150	One Bottleless Water Cooler	Spectrum		Trailer @ 9		
Bldg-157	One Bottleless Water Cooler	Spectrum		1st Floor		
Bldg-191	One Bottleless Water Cooler	Culligan				
Bldg-192	One Bottleless Water Cooler	Culligan				
Bldg-192	One Bottleless Water Cooler	Culligan				
Bldg-193	One Bottleless Water Cooler	Putnam/OAS		Hallway		
Bldg-193	One Bottleless Water Cooler	Putnam/OAS		Com. Room		
Bldg-L	One Bottleless Water Cooler	Spectrum		1st Floor		
Bldg-M	One Bottleless Water Cooler	Spectrum		Kitchen		
Bldg-N	One Bottleless Water Cooler	Culligan				
Bldg-N	One Bottleless Water Cooler	Putnam/OAS				
Firehouse	One Bottleless Water Cooler	Spectrum		1st Floor		
Relocate	One Bottleless Water Cooler	Spectrum		Next to 32/1st Floor		

ATTACHMENT C.12-10. EXPLOSIVES GROUNDING AND LIGHTNING PROTECTION SYSTEM

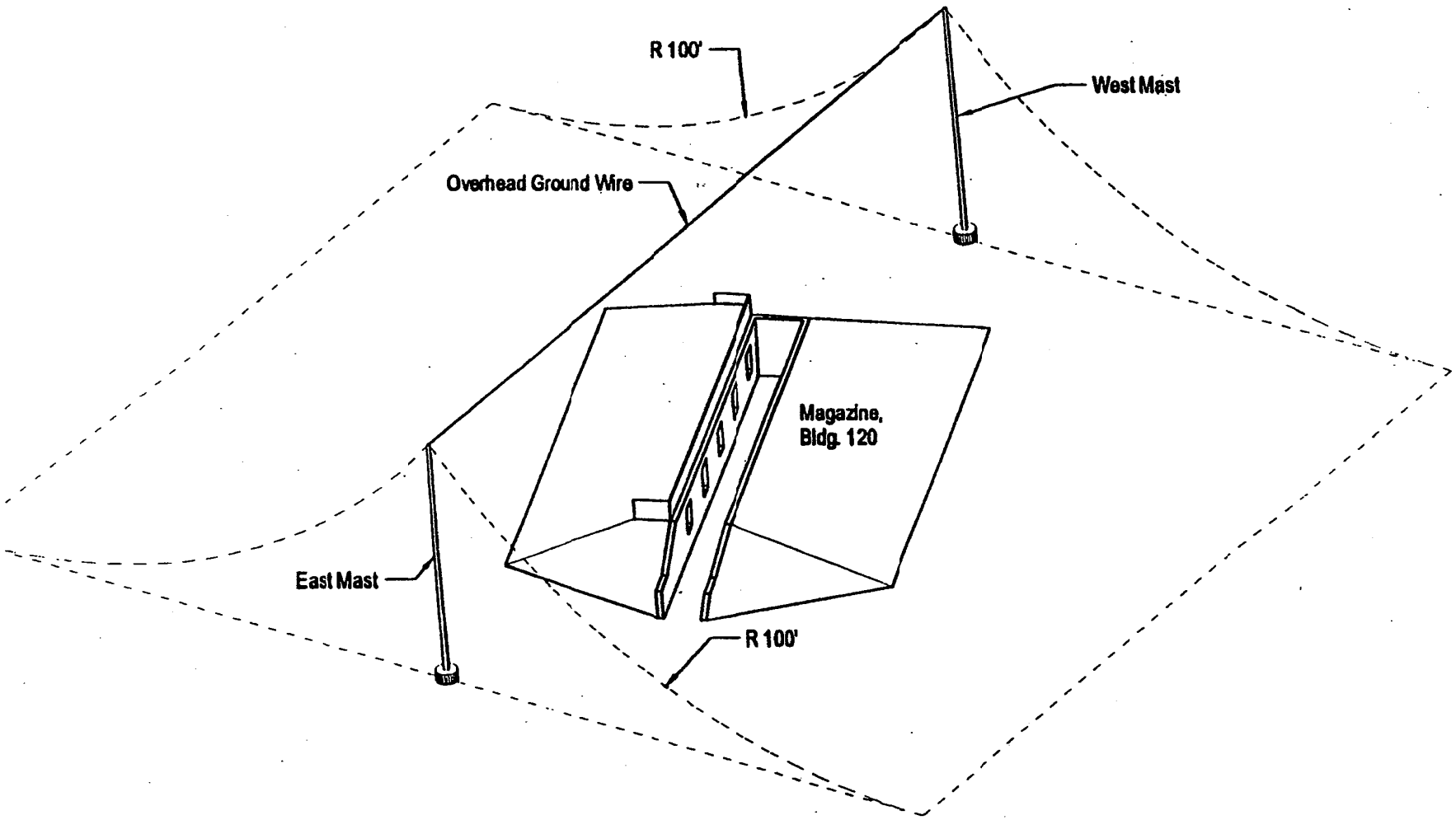
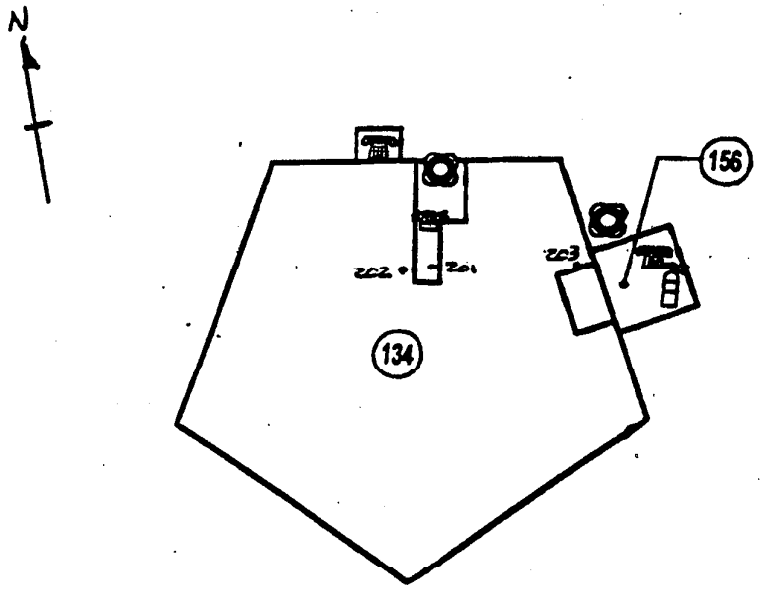


Figure 1. Building 120, Magazine Overhead ground wire zone of protection defined by ground wire, and dashed lines

TEST POND GROUNDING TEST AND VISUAL INSPECTION

Page 1 date / /

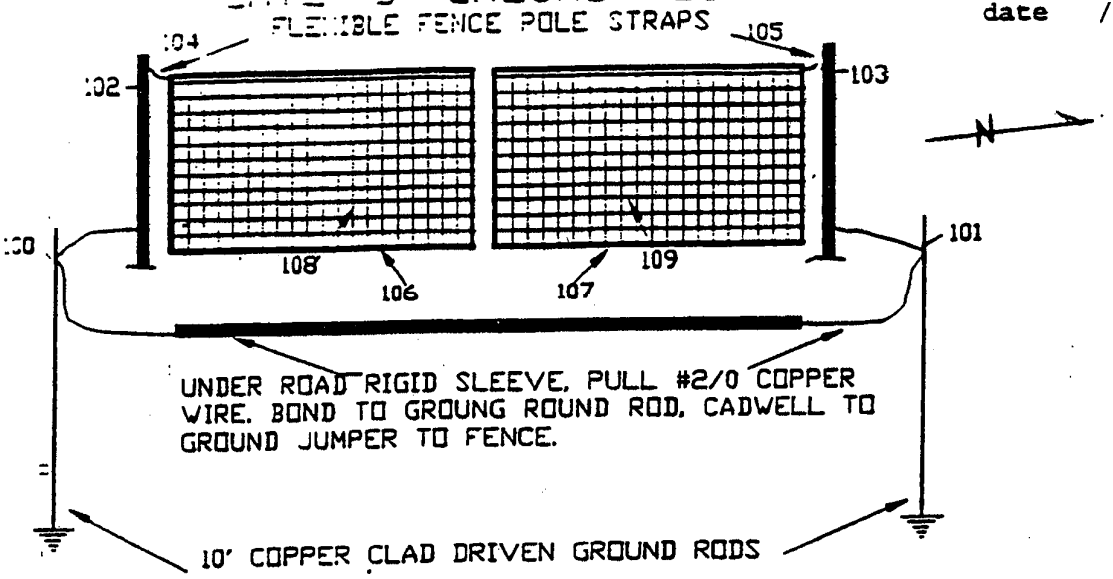


TEST POINT	DESCRIPTION	OHM READING	ACCEPTABLE YES	NO	COMMENTS
201	Long Pier (Upper)				
202	Long Pier (Lower)				
203	Short Pier				

Corrective Actions: _____

GATE "B" GROUND TEST

date / /



TEST POINT	DESCRIPTION	ohm READING	ACCEPTABLE YES	NO	COMMENTS
100	Ground Rod				
101	Ground Rod				
102	Fence Post				
103	Fence Post				
104	Bond Jumper				
105	Bond Jumper				
106	Gate Frame				
107	Gate Frame				
108	Fence Fabric				
109	Fence Fabric				

Test Reference Point Reading_____ohms At Point_____

WEATHER CONDITIONS_____

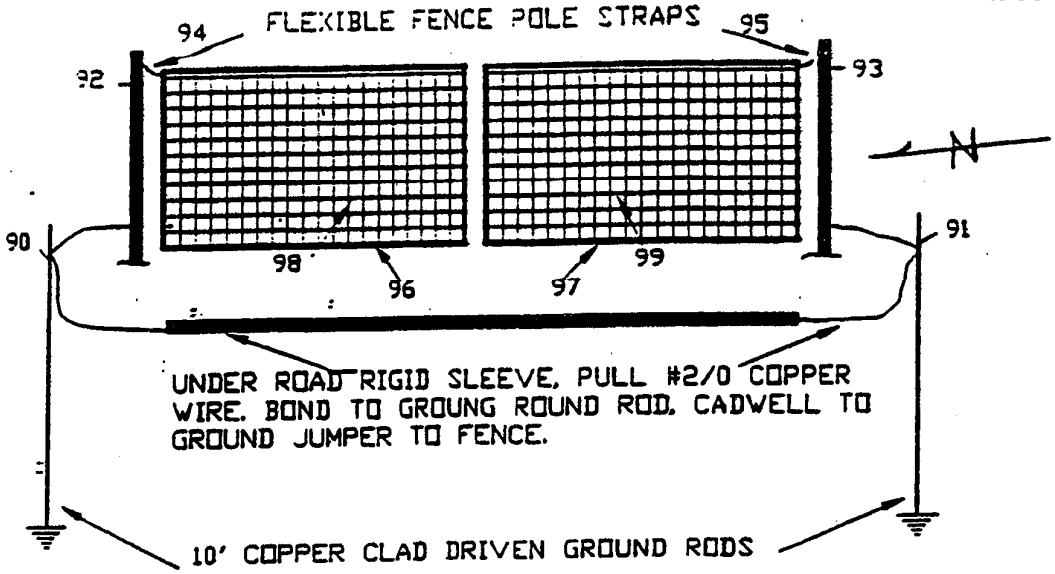
Corrective actions:_____

_____

_____

GATE 3'-156 GROUND TEST

date / /



TEST POINT	DESCRIPTION	ohm READING	ACCEPTABLE YES	NO	COMMENTS
90	Ground Rod				
91	Ground Rod				
92	Fence Post				
93	Fence Post				
94	Bond Jumper				
95	Bond Jumper				
96	Gate Frame				
97	Gate Frame				
98	Fence Fabric				
99	Fence Fabric				

Test Reference Point Reading_____ohms At Point_____

WEATHER CONDITIONS_____

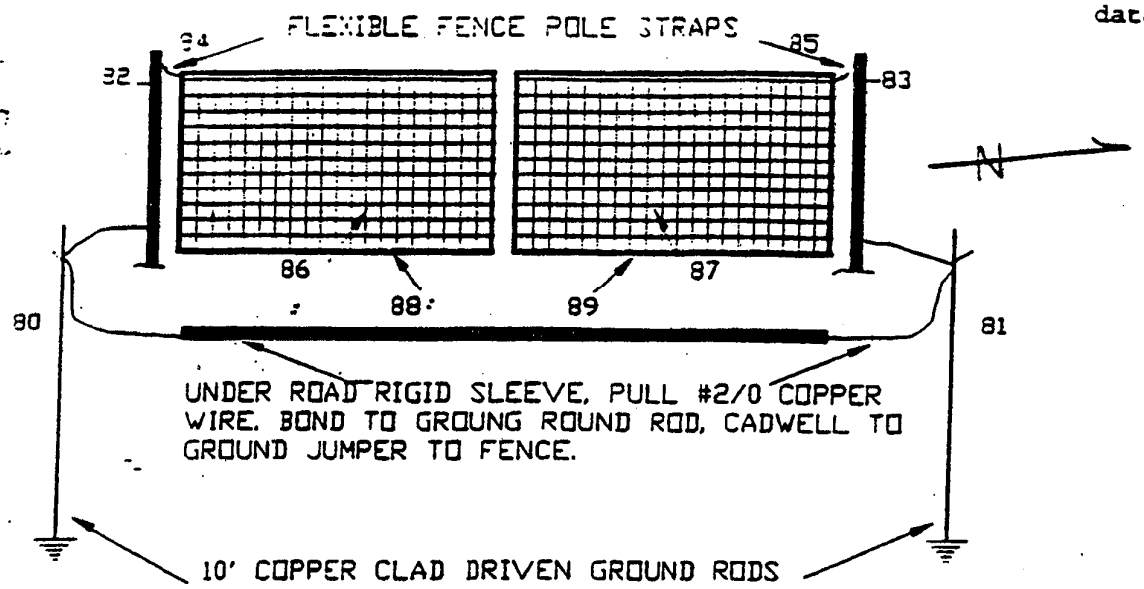
Corrective actions:_____

_____

_____

GATE 'A' GROUND TEST

date / /



TEST POINT	DESCRIPTION	ohm READING	ACCEPTABLE YES	NO	COMMENTS
80	Ground Rod				
81	Ground Rod				
82	Fence Post				
83	Fence Post				
84	Bond Jumper				
85	Bond Jumper				
86	Gate Frame				
87	Gate Frame				
88	Fence Fabric				
89	Fence Fabric				

Test Reference Point Reading_____ohms At Point_____

WEATHER CONDITIONS_____

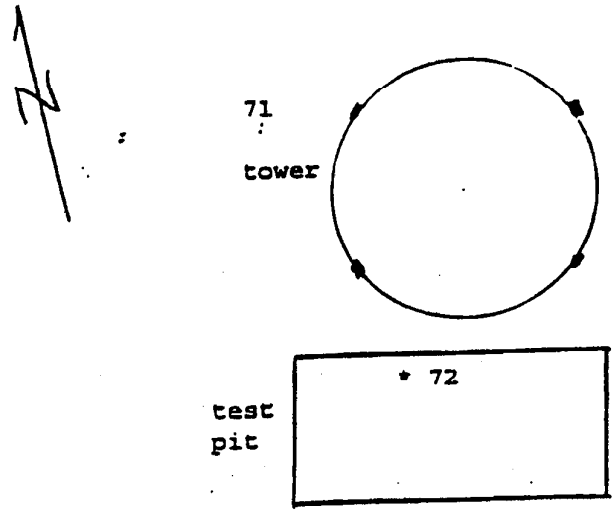
Corrective actions:_____

_____

_____

date / /

TOWER AND TEST PIT AREA
GROUNDING TEST



TEST POINT	DESCRIPTION	ohm READING	ACCEPTABLE YES	NO	COMMENTS
71	Tower Leg				
72	Cross Beam				

Weather Conditions _____

Corrective actions: _____

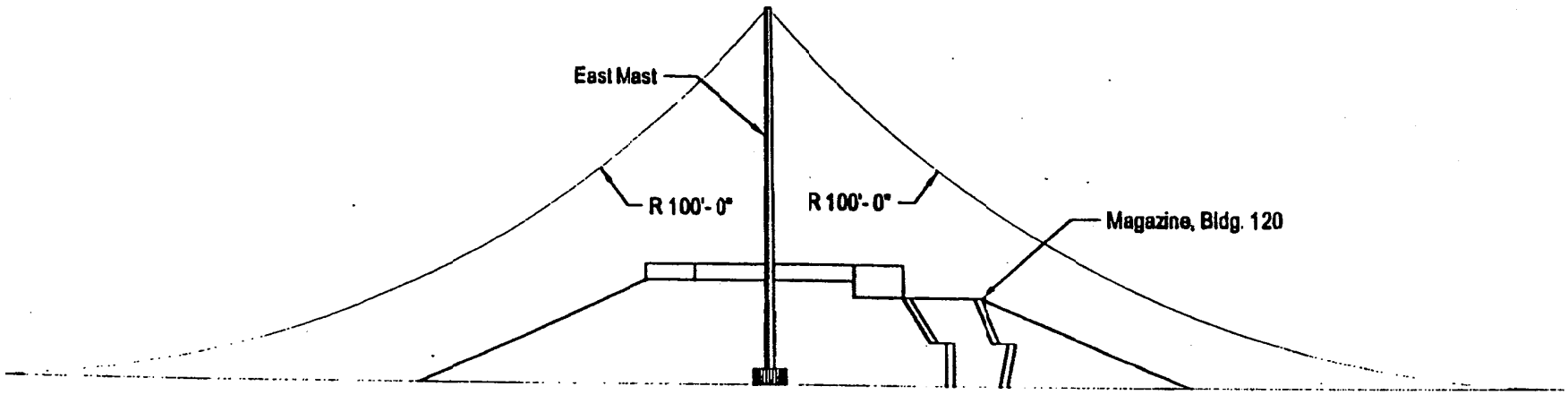
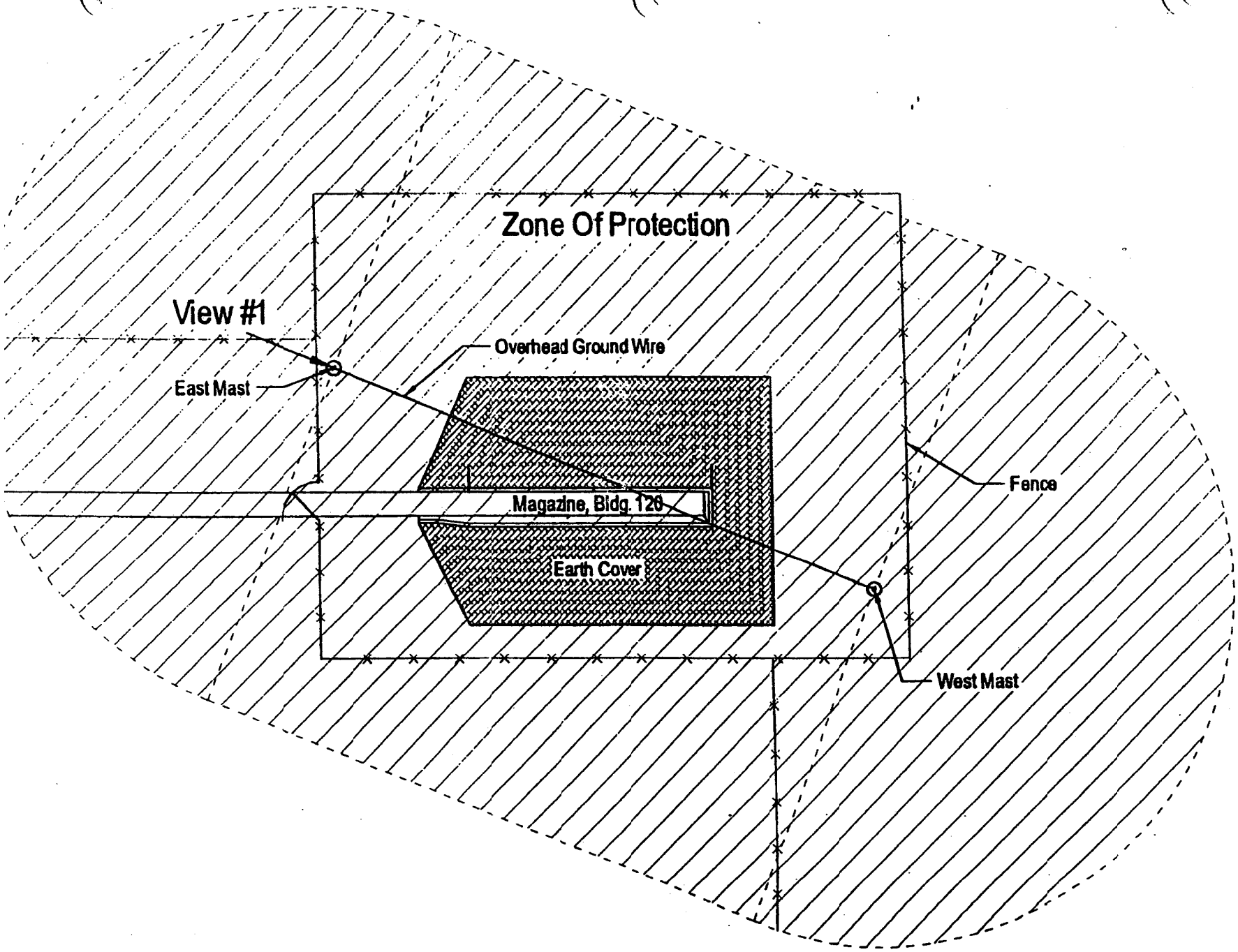


Figure 3. View #1, Site line of masts and overhead ground wire.


Zone Of Protection
View #1
Overhead Ground Wire
East Mast
Fence
Magazine, Bldg. 126
Earth Cover
West Mast

ATTACHMENT C.12-11. LIGHTING INVENTORY

ATTACHMENT C.12-11 LIGHTING INVENTORY

EQUIPMENT NAME	LOCATION	BUILDING	LAMP TYPE / SIZE	COLOR	TUBE / VOLTAGE	LAMP INFORMATION	MOUNTING TYPE
LIGHT FIXTURE		024	T-12 LAMPS		4' 1 TUBE	SINGLE PIN	
LIGHT FIXTURE		024	T-8 LAMPS		4' 2 TUBE	MED. BIPIN	
LIGHT FIXTURE		027	T-8 LAMPS		4' 2 TUBE	MED. BIPIN	
LIGHT FIXTURE		103	T-8 LAMPS		4' 2 TUBE	MED. BIPIN	
LIGHT FIXTURE		103	T-8 LAMPS		4' 3 TUBE	MED. BIPIN	
LIGHT FIXTURE		103	T-8 LAMPS		4' 4 TUBE	MED. BIPIN	
LIGHT FIXTURE		103	T-8 LAMPS		3' 2 TUBE	MED. BIPIN	
LIGHT FIXTURE		103	R 30 75 WATT		HI HAT		
LIGHT FIXTURE		103	100 WATT OR EQUIV.				
LIGHT FIXTURE	THROUGHOUT	T40	4' T-12 ALTO LAMPS		4 TUBE FIXTURE		
LIGHT FIXTURE	THROUGHOUT	T40	4' T-8 ALTO LAMP		4 TUBE FIXTURE		
FLORESCENT LIGHT	THROUGHOUT	001	4' STRIP	WHITE	120-volts	1 T-8 LAMP ALTO	SURFACE MOUNT
FLORESCENT LIGHT	THROUGHOUT	001	1'X 4'	WHITE	120-VOLTS	2 T-8 LAMPS ALTO	LAY IN
FLORESCENT LIGHT	THROUGHOUT	001	2'X 4'	WHITE	120-VOLTS	3 T-8 LAMPS ALTO	LAY IN
FLORESCENT LIGHT	THROUGHOUT	001	2'X 4'	WHITE	120-VOLTS	4 T-8 LAMPS ALTO	LAY IN
FLORESCENT LIGHT	WOOD SHOP	001	1'X 4'	GRAY	120-VOLTS	2 T-8 LAMPS ALTO	SURFACE MOUNT
FLORESCENT LIGHT	SHOPS	001	1'X 8'	WHITE	120-VOLTS	2 T-12 HO LAMPS ALTO	SURFACE MOUNT
FLORESCENT LIGHT	THROUGHOUT	001	2'X 2'	WHITE	120-VOLTS	2 T-8 U LAMPS ALTO	LAY IN
FLORESCENT LIGHT	THROUGHOUT	003	2X4	WHITE	120	2 4' LAMPS	LAY IN & SURFACE
FLORESCENT LIGHT	THROUGHOUT	003	2'X 4'	WHITE	120	4 T-8 LAMPS	LAY IN
FLORESCENT LIGHT	EAST END	004	1'x 4'	WHITE	120	2 T-12 LAMPS 4'	PENDIT MOUNT
FLORESCENT LIGHT	EAST END	004	4"X 4'	WHITE	120	1 T-8 LAMP 4'	SURFACE MOUNT
FLORESCENT LIGHT	EAST END	004	2'X 4'	WHITE	120	4 T-8 LAMPS 4'	LAY IN
FLORESCENT LIGHT	EAST END	004	6"X 8'	WHITE	120	2 T-12 LAMPS 8'	PENDIT MOUNT
LIGHT FIXTURE	EAST END	004	4" ROUND	WHITE	120	100 WATT	MED. BASE
LIGHT FIXTURE	EAST END	004		SILVER	120	400 WATT MOG. BASE	H.P.S.
LIGHT FIXTURE	EAST END	004		SILVER	120	400-WATT MOG.BASE	METAL HALIDE
FLORESCENT LIGHT	THROUGHOUT	006	8"X 8'	WHITE	120	2 LAMPS 8' 1 PIN	SURFACE MOUNT
FLORESCENT LIGHT	THROUGHOUT	010	1'X 4'	WHITE	120	2 4' T-12 LAMPS	SURFACE MOUNT
FLORESCENT LIGHT	THROUGHOUT	011	2'X 4'	WHITE	120	3 4' T-8 LAMPS	LAY-IN
FLORESCENT LIGHT	THROUGHOUT	011	2'X 4' & 1'X 4'	WHITE	120	2 4' T-8 LAMPS	LAY-IN,PENDIT,WALL
FLORESCENT LIGHT		011	1'X 4'	WHITE	120	1 4' T-8 LAMP	SURFACE
LIGHT FIXTURE		011		SILVER	120	1 100-WATT LAMP	WEATHER PROOF
LIGHT FIXTURE		011			120	1 75-WATT LAMP	RECESSED

ATTACHMENT C.12-12. SANITARY SEWER SYSTEM EQUIPMENT

ATTACHMENT C.12-12
SANITARY SEWER SYSTEM EQUIPMENT

EQUIPMENT NAME	EQUIPMENT NUMBER	BUILDING	ROOM LOCATION	MODEL	MANUFACTURER	HORSEPOWER/ PIPE SIZE
WASTE WATER PUMP	016WWP001	016	BSMT RM 3	103042	AURORA PUMP CO.	1-5HP 3"
WASTE WATER PUMP	016WWP002	016	BSMT RM 3	3B 103042	AURORA PUMP CO.	1-5HP 3"
WASTE WATER PUMP	017WWP003	017	17W BSMT W	92142-A	WEIL	2HP 4"
WASTE WATER PUMP	017WWP004	017	17W BSMT W	92142-B	WEIL	2HP 4"
WASTE WATER PUMP	104WWP001	104	GARAGE BAY	2A184TRDR344CDW	CHICAGO	1.5HP 4"
WASTE WATER PUMP	111WWP001	111	NW MECH RM	H-6910	CHICAGO PUMP CO.	1.5HP 3"
WASTE WATER PUMP	111WWP002	111	NW MECH RM	H-6910	CHICAGO PUMP CO.	1.5HP 3"
WASTE WATER PUMP	112WWP001	112	EAST MECH	15CE2	TSURUMI	1-5HP 2"
WASTE WATER PUMP	112WWP002	112	EAST MECH	15CE2	TSURUMI	1-5HP 3"
WASTE WATER PUMP	113WWP001	113	BATHR.MECH	WP ALS6-1	GOULDS PUMP INC.	1HP 2"
WASTE WATER PUMP	113WWP002	113	BATHR.MECH	WP ALS6-1	GOULDS PUMP INC.	1HP 2"
WASTE WATER PUMP	143WWP001	143	WEST MECH	7402443	CHICAGO PUMP CORP.	1-5HP 2"
WASTE WATER PUMP	143WWP002	143	WEST MECH	7402443	CHICAGO PUMP CORP.	1-5HP 2"

ATTACHMENT C.12-13. STORAGE TANK INVENTORY

ATTACHMENT C.12-13
STORAGE TANK MAINTENANCE SERVICE

Storage Tank Systems include but are not limited to; (1) tanks; (2) piping; (3) fittings; (4) valves; (5) pumps; (6) motors; (7) pipe anchors; (8) pipe supports; (9) high and low level alarms; (10) secondary containments.

Underground Tanks Description: There are 7 underground tanks. Location capacity product and identification is as follows:

Tank ID	Location	Product	Capacity (gallons)	Active	Inactive
UST 60-1	Bldg 60	Oily Water	20,000	X	
60-2	Bldg 61	Oily Water	20,000	X	
60-3	Bldg 62	Oily Water	1,500	X	
60-4	Bldg 63	Oily Water	2,500	X	
60-5	Bldg 64	Oily Water	2,500	X	
60-7	Bldg 66	Synthetic Seawater	10,000	X	
60-8	Bldg 67	Freshwater	10,000	X	

Aboveground Tanks Description: There are 21 above ground tanks. Location, capacity, product and identification is as follows:

Tank ID	Location	Product	Capacity (gallons)	Active	Inactive
AST-1	Bldg 6	#2 Fuel Oil	12,000	X	
2	Bldg 6	#2 Fuel Oil	20,000	X	
3	Bldg 142	Unleaded Gas	2,000	X	
4	Bldg 142	Diesel Fuel	1,000	X	
5	Bldg 19	Mineral Oil	25,000	X	
13	Bldg 19	Mineral Oil	25,000	X	
14	Bldg 17	Diesel Fuel	250	X	
15	Bldg 27	Diesel Fuel	1,000	X	
17	Bldg 6	Diesel Fuel	2,000	X	
18	Bldg 152	Diesel Fuel	60	X	
19	Bldg 10	Diesel Fuel	200	X	
60-10	Bldg 60	Diesel Fuel Marine	550	X	
60-11	Bldg 60	Diesel Fuel Marine	550	X	
60-12	Bldg 60	Diesel Fuel Marine	4,000	X	
60-13	Bldg 60	Diesel Fuel Marine/JP-5	500	X	
60-14	Bldg 60	Liquid Nitrogen	550	X	
60-15	Bldg 60	Propane Gas		X	
60-16	Bldg 60	Propane Gas		X	
60-17	Bldg 60	Diesel Fuel	200		X
60-18	Bldg 60	Diesel Fuel	125	X	
60-19	Bldg 60	Diesel Fuel	205	X	

ATTACHMENT C.12-14. AIR COMPRESSOR INVENTORY

C.12-14 AIR COMPRESSOR INVENTORY

EQUIPMENT NUMBER	BUILDING LOCATION	MODEL	EQUIPMENT NAME	MANUFACTURER	HORSEPOWER	ROOM LOCATION
018COM002	18	3Z8942	AIR COMPRESSOR	SPEEDAIRE	15 HP	BASEMENT NW
018COM003	18	HRA25-12	AIR COMPRESSOR	CHAMPION	25 HP	BASEMENT NW
060COM002	60	M-GA30 (REGULAR AIR)	AIR COMPRESSOR	ALTAS COPCO	50 HP	PENTHOUSE
060COM003	60	ZT18 (OILLESS AIR)	AIR COMPRESSOR	ALTAS COPCO	30 HP	PENTHOUSE
068COM001	68	MORDT30ST200ESS AIR	AIR COMPRESSOR	QUINCY	30 HP.	MECH.ROOM
080COM001	80	15T	AIR COMPRESSOR	INGERSOL RAND	15 HP	MECH.ROOM
107COM001	107	5Z017B-2	AIR COMPRESSOR	SPEEDAIRE	5 HP	MECH ROOM
119COM001	119	AVLRVB	AIR COMPRESSOR	GARDNER DENVER	25 HP	EAST
128COM001	128	VR10-12	AIR COMPRESSOR	CHAMPION	10 HP	SHOP AREA
129COM001	129	41X5	AIR COMPRESSOR	INGERSOLL RAND	5 HP	SOUTH LOFT

ATTACHMENT C.12-15. EXHAUST FAN INVENTORY

ATTACHMENT C.12-15 EXHAUST FAN INVENTORY

EQUIPMENT NUMBER	BLDG	MODEL NUMBER	EQUIPMENT NAME	LOCATION	BELT SIZE	MANUFACTURER.	SERIAL NUMBER	VOLTAGE PHASE	MOTOR HP
060EXF001	060	54-BISW-10-CW-UB-I-A	EXHAUST FAN	PENTHOUSE		GREENHECK	95A16450		
060EXF011	060	24-TCF-3-HCH-II-AI50	EXHAUST FAN	ABOVE AHU5		GREENHECK	95AI6259		
060EXF012	060	18-TCF-3-HCH-I-A20	EXHAUST FAN	ABOVE AHU5		GREENHECK	95AI6254		
060EXF009	060	24-TCF-3-HCH-I-AI50	EXHAUST FAN	N. PENTHOUSE		GREENHECK	95AI6257		
060EXF010	060	24-TCF-3-HCH-II-A-150	EXHAUST FAN	N. PENTHOUSE		GREENHECK	95A16258		
060EXF004	060	44-TCF-3-HCH-I-A300	EXHAUST FAN	S. PENTHOUSE		GREENHECK	95B01375		
060EXF007	060	20-TCF-3-HCH-I-A15	EXHAUST FAN	S. PENTHOUSE		GREENHECK	95AI6256		
060EXF008	060	18-TCF-3-HCH-I-TA7	EXHAUST FAN	N. PENTHOUSE		GREENHECK	95A16253		
060EXF013	060	SBE-3H42-30	EXHAUST FAN	PENTHOUSE		GREENHECK	95B00591		
060EXF014	060	SBE-3H42-30	EXHAUST FAN	PENTHOUSE		GREENHECK	95B00592		
060EXF015	060	SBCE-3H30	EXHAUST FAN	PENTHOUSE		GREENHECK	95B00572		
060EXF016	060	GB-80-4X	EXHAUST FAN	HI BAY ROOF		GREENHECK	95A16023		
060EXF002	060	54-BISW-10-CW-UB-I-A	EXHAUST FAN	PENTHOUSE		GREENHECK	95B00531		
060EXF003	060	54-BISW-10-CW-UB-I-A	EXHAUST FAN	PENTHOUSE		GREENHECK	95B00532		
060EXF006	060	12-BTSW-SS-CW-UB-T-A7	EXHAUST FAN	S. PENTHOUSE		GREENHECK	95B04568		
060EXF017	060	6D597	EXHAUST FAN	HI BAY ROOF		DAYTON			
060EXF018	060	6D594	EXHAUST FAN	HI BAY ROOF		DAYTON			
052EXF001	052		EXHAUST FAN	BAY W. SIDE					
052EXF002	052		EXHAUST FAN	BAY E. SIDE					
EXF118	024		EXHAUST FAN						
001EXF001	001	40 INCH	EXHAUST FAN	ROOF		I G L			
001EXF002	001	40 INCH	EXHAUST FAN	ROOF		I G L			
001EXF003	001	40 INCH	EXHAUST FAN	ROOF		I G L			
001EXF004	001	122D	EXHAUST FAN	ROOF		PORTER			
001EXF005	001	104-02-1AA	EXHAUST FAN	PAINT SHOP		I L G			
001EXF006	001	104-02-1AA	EXHAUST FAN	PAINT SHOP		I L G			
001EXF007	001	104-02-1AA	EXHAUST FAN	PAINT SHOP		I L G			
001EXF008	001		EXHAUST FAN	PAINT SHOP		DE DEVILBIS			
001EXF009	001	PTB-245	EXHAUST FAN	SWBRD.A		I L G			
002EXF001	002	200BRE8F	EXHAUST FAN	ROOF		POWER LINE			
002EXF002	002	83	EXHAUST FAN	PHOTO LAB		I L G			
003EXF001	003	SDE 1424A	EXHAUST FAN	ROOF		GREEN HECK			
003EXF002	003		EXHAUST FAN	ROOF		CARNES			
003EXF003	003		EXHAUST FAN	ROOF		CARNES			
004EXF001	004	D. DRIVE L5430	EXHAUST FAN	ROOF		AERO			

ATTACHMENT C.12-15 EXHAUST FAN INVENTORY

EQUIPMENT NUMBER	BLDG	MODEL NUMBER	EQUIPMENT NAME	LOCATION	BELT SIZE	MANUFACTURER.	SERIAL NUMBER	VOLTAGE PHASE	MOTOR HP
004EXF002	004	D. DRIVE L5430	EXHAUST FAN	ROOF		AERO			
004EXF003	004	D. DRIVE L5430	EXHAUST FAN	ROOF		AERO			
004EXF004	004	D. DRIVE L5430	EXHAUST FAN	ROOF		AERO			
004EXF005	004	LSQ243	EXHAUST FAN	MENS RM.		I L G			
004EXF006	004	LSQ303SH	EXHAUST FAN	WOMENS RM.		I L G			
004EXF007	004	D. DRIVE	EXHAUST FAN	MEZZANINE		BALDOR			
004EXF008	004	D. DRIVE	EXHAUST FAN	MEZZANINE		N. Y. BLOWER			
005EXF001	005	LUBETYPE 3 1/4	EXHAUST FAN	BASEMENT		BUFFALO			
005EXF002	005	SIZE 30	EXHAUST FAN	ELEC. RM.		BUFFALO			
005EXF003	005	D. DRIVE	EXHAUST FAN	ROOF		FEDERAL ENTERPRIZE			
005EXF004	005	D. DRIVE	EXHAUST FAN	ROOF		FEDERAL ENTERPRIZE			
006EXF001	006	D. DRIVE	EXHAUST FAN	ROOF		DAYTON			
006EXF002	006	D. DRIVE	EXHAUST FAN	ROOF		DAYTON			
006EXF003	006	D. DRIVE	EXHAUST FAN	ROOF		DAYTON			
006EXF004	006		EXHAUST FAN	TRANS. RM.					
006EXF005	006	BELT DRIVE	EXHAUST FAN	COMP. RM.					
006EXF006	006	BELT DRIVE	EXHAUST FAN	COMP. RM.					
007EXF001	007		EXHAUST FAN	BASEMENT		BUFFALO			
007EXF002	007		EXHAUST FAN	BASEMENT		BUFFALO			
007EXF003	007		EXHAUST FAN	ROOM 140					
007EXF004	007	BELT 4L240	EXHAUST FAN	ROOF		LOREN COOK			
007EXF005	007	BELT 4L240	EXHAUST FAN	ROOF		LOREN COOK			
008EXF001	008		EXHAUST FAN			DAYTON			
009EXF001	009	D. DRIVE	EXHAUST FAN	LOCKER RM.		JENN			
009EXF002	009	D. DRIVE	EXHAUST FAN	LOCKER RM.		IND. AIR			
009EXF003	009	2-BELT 4L620	EXHAUST FAN	ROOF		JENN			
009EXF004	009	2-BELT 4L620	EXHAUST FAN	ROOF		JENN			
009EXF005	009	M-4700 D. DRIVE	EXHAUST FAN	ROOF		PLYMOVENT BLOWERS			
009EXF006	009	M-4700 D. DRIVE	EXHAUST FAN	ROOF		PLYMOVENT BLOWERS			
009EXF007	009	M-4700 D. DRIVE	EXHAUST FAN	ROOF		PLYMOVENT BLOWERS			
009EXF008	009	M-4700 D. DRIVE	EXHAUST FAN	ROOF		PLYMOVENT BLOWERS			
009EXF009	009	2-BELT 4L400	EXHAUST FAN	ROOF		JENN			
009EXF010	009	2-BELT 4L400	EXHAUST FAN	ROOF		JENN			
009EXF011	009	2-BELT 4L400	EXHAUST FAN	ROOF		JENN			
009EXF012	009	M-GB-200-5X BELT4L290	EXHAUST FAN	ROOF		GREEN HECK			

ATTACHMENT C.12-15 EXHAUST FAN INVENTORY

EQUIPMENT NUMBER	BLDG	MODEL NUMBER	EQUIPMENT NAME	LOCATION	BELT SIZE	MANUFACTURER.	SERIAL NUMBER	VOLTAGE PHASE	MOTOR HP
009EXF013	009	M-GB-200-5X BELT 4L290	EXHAUST FAN	ROOF		GREEN HECK			
009EXF014	009	200BRE8F BELT 4L270	EXHAUST FAN	ROOF		POWERLINE			
009EXF015	009	200BRE8F BELT 4L270	EXHAUST FAN	ROOF		POWER LINE			
009EXF016	009	BELT 2-4L650	EXHAUST FAN	ROOF		BLOWER (BIG)			
009EXF017	009	BELT 2-4L520	EXHAUST FAN	ROOF		BLOWER (SMALL)			
009EXF018	009	122G B. DRIVE	EXHAUST FAN	ROOF		PEERLESS (BLOWER)			
009EXF019	009	122G	EXHAUST FAN	ROOF		PEERLESS (BLOWER)			
009EXF020	009	122G	EXHAUST FAN	ROOF		PEERLESS (BLOWER)			
009EXF021	009	122G	EXHAUST FAN	ROOF		PEERLESS (BLOWER)			
009EXF022	009	200J BELT AP50	EXHAUST FAN	ROOF		PEERLESS (BLOWER)			
009EXF023	009	GB-2207X BELT A-36	EXHAUST FAN	ROOF		GREEN HECK			
009EXF024	009	GB-2207X BELT A-36	EXHAUST FAN	ROOF		GREEN HECK			
011EXF001	011	SWB-10-7-CW-THX BELT A-24	EXHAUST FAN	ROOF		GREEN HECK			
011EXF002	011	SWB-10-7-CW-THX BELT A-24	EXHAUST FAN	ROOF		GREEN HECK			
011EXF003	011	SWB-10-7-CW-THX BELT A-24	EXHAUST FAN	ROOF		GREEN HECK			
011EXF004	011	SWB-12-7-CW-THX BELT A-25	EXHAUST FAN	ROOF		GREEN HECK			
016EXF001	016	25	EXHAUST FAN	ELEC. RM.		TRANE			
016EXF002	016	25	EXHAUST FAN	ELEC. RM.		TRANE			
016EXF003	016		EXHAUST FAN	GEN. RM.		TRANE			
016EXF004	016		EXHAUST FAN	GEN. RM.		TRANE			
017EXF001	017	U2033	EXHAUST FAN	W. BSMT.		AMERICAN COOL AIR			
017EXF002	017	U2033	EXHAUST FAN	BSMT. WEST		AMERICAN COOL AIR			
017EXF003	017	SL300	EXHAUST FAN	BSMT. EAST		BAYLEY			
103EXF001	103	135DRE67	EXHAUST FAN	ROOF		POWERLINE			
103EXF002	103	SIZE 75	EXHAUST FAN	ATTIC		STURTEVANT			
103EXF003	103	3C146	EXHAUST FAN	ATTIC		DAYTON			
103EXF004	103	D. DRIVE	EXHAUST FAN	ROOF		DAYTON			
018EXF001	018		EXHAUST FAN	ROOF	BELT 5L-980			230/460 3 PHASE	3 HP.
018EXF002	018		EXHAUST FAN	ROOF	BELT 5L-980			230/460 3 PHASE	3 HP.
018EXF003	018		EXHAUST FAN	ROOF	BELT 5L980			230/460 3 PHASE	3 HP.
018EXF004	018		EXHAUST FAN	ROOF	BELT 5L-980			230/460 3 PHASE	3 HP.
018EXF005	018		EXHAUST FAN	ROOF	BELT 5L-980			230/460 3 PHASE	3 HP.
018EXF006	018		EXHAUST FAN	ROOF	BELT 5L-980			230'460 3 PHASE	3 HP.
018EXF007	018		EXHAUST FAN	ROOF	BELT 5L980			230/460 3 PHASE	3 HP.
018EXF008	018		EXHAUST FAN	ROOF	BELT 4L-470			230/460 3 PHASE	3/4 HP.

ATTACHMENT C.12-15 EXHAUST FAN INVENTORY

EQUIPMENT NUMBER	BLDG	MODEL NUMBER	EQUIPMENT NAME	LOCATION	BELT SIZE	MANUFACTURER.	SERIAL NUMBER	VOLTAGE PHASE	MOTOR HP
018EXF009	018		EXHAUST FAN	ROOF	BELT 4L-460			230/460 3 PHASE	3/4 HP.
018EXF010	018		EXHAUST FAN	ROOF	BELT 4L-460			230/460 3 PHASE	3/4 HP.
019EXF001	019	BE322A	EXHAUST FAN	ROOF		CARNS			
019EXF002	019	D1211B	EXHAUST FAN	ROOF		CARNES			
019EXF003	019	20CXB	EXHAUST FAN	B-173		LOREN COOK CO.			
019EXF004	019	BE-50F	EXHAUST FAN	C BAY ROOF	BELT A-73	CARNS		230/460 3 PHASE	7 1/2 HP.
019EXF005	019	BE-50F	EXHAUST FAN	C BAY ROOF	BELT A-73	CARNS		230/460 3 PHASE	7 1/2 HP.
019EXF006	019	BE-50F	EXHAUST FAN	C BAY ROOF	BELT A-73	CARNS		230/460 3 PHASE	7 1/2 HP.
019EXF007	019	BE333D	EXHAUST FAN	B-BAY ROOF	BELT 4L-420	CARNES		440 3 PHASE	1 1/2 HP.
019EXF008	019	BE333D	EXHAUST FAN	B BAY ROOF	BELT 4L-420	CARNS		440 3 PHASE	1 1/2 HP.
019EXF009	019	A63M100	EXHAUST FAN	6' TANK		DYNA CORP.			
019EXF010	019		EXHAUST FAN	A-29		NEW YORK BLOWER			
019EXF011	019		EXHAUST FAN	A-11		NEW YORK BLOWER			
019EXF012	019		EXHAUST FAN	A-17		NEW YORK BLOWER			
019EXF013	019		EXHAUST FAN	A-19		NEW YORK BLOWER			
019EXF014	019	DI2108B	EXHAUST FAN	A BAY ROOF		CARNES			
019EXF015	019	BE314B	EXHAUST FAN	A BAY ROOF		CARNES			
019EXF016	019	D126E	EXHAUST FAN	A BAY ROOF		CARNES			
019EXF017	019	BE310A	EXHAUST FAN	A BAY ROOF		CARNES			
019EXF018	019	BRDAK-3-11	EXHAUST FAN	A BAY ROOF		CARNES			
019EXF019	019	DI29B	EXHAUST FAN	ROOF		CARNES			
019EXF020	019	CRVD13	EXHAUST FAN	ROOF		TRANE			
019EXF021	019		EXHAUST FAN	B BAY ROOF		NEW YORK BLOWER			
019EXF022	019		EXHAUST FAN	B BAY ROOF		NEW YORK BLOWER			
019EXF023	019	15GZFC4820	EXHAUST FAN	A BAY		TRANE			
019EXF024	019	183FC	EXHAUST FAN	A BAY		TRANE			
019EXF025	019	WGY-4529-1	EXHAUST FAN	A BAY		WESTINGHOUSE			
019EXF026	019	27822	EXHAUST FAN	MECH. RM.		BARRY BLOWER CO.			
019EXF027	019	27822	EXHAUST FAN	MECH. RM.		BARRY BLOWER CO.			
019EXF028	019	9K907C	EXHAUST FAN	C BAY		DAYTON			
019EXF029	019	HS-16	EXHAUST FAN	C BAY		PEERLESS ELECTRIC			
121EXF001	121	D12E	EXHAUST FAN	ROOF		PEERLESS ELECTRIC			
121EXF002	121	G-65DGEX-00	EXHAUST FAN	ROOF		GREENHECK			
121EXF003	121		EXHAUST FAN	ROOF					
126EXF001	126	4C269A	EXHAUST FAN			DAYTON			

ATTACHMENT C.12-15 EXHAUST FAN INVENTORY

EQUIPMENT NUMBER	BLDG	MODEL NUMBER	EQUIPMENT NAME	LOCATION	BELT SIZE	MANUFACTURER.	SERIAL NUMBER	VOLTAGE PHASE	MOTOR HP
121EXF004	121	G-65DGEX-00	EXHAUST FAN	ROOF		GREENHECK			
104EXF001	104	S7174	EXHAUST FAN	BAY		PACKARD			
104EXF002	104	B-519	EXHAUST FAN	BAY		DELCO			
104EXF003	104	B-519	EXHAUST FAN	BAY		DELCO			
188EXF001	188	13586	EXHAUST FAN		BELT 4L520	TRANE		480 V 3 PHASE	3/4 HP.
015EXF001	015	4467A	EXHAUST FAN	BASEMENT	115 VOLTS	DAYTON		1/2 HP. 1 PHASE	1725 RPM
119EXF001	119	91C	EXHAUST FAN	BACK	BELT AP35 DA	NEW YORK BLOWER			
191EXF001	191	21-16412A	EXHAUST FAN	MECH. RM.		ILG			
012EXF001	012	GB 540-50X	EXHAUST FAN	ROOF	54"X 54"	GREENHECK	00A12125	440 3 PHASE	
012EXF002	012	GB 540-50X	EXHAUST FAN	ROOF	54"X 54"	GREENHECK	00C16745	440 3 PHASE	
012EXF003	012	GB 540-50X	EXHAUST FAN	ROOF	54"X 54"	GREENHECK	00C16746	440 3 PHASE	

ATTACHMENT C.12-16. BACKFLOW PREVENTER INVENTORY

ATTACHMENT C.12-16 BACKFLOW PREVENTER INVENTORY

EQUIPMENT NUMBER	EQUIPMENT NAME	LOCATION	BLDG	SIZE	SERIAL NUMBER	MODEL	MANUFACTURER
003BFP001	BACKFLOW PREVENTER	BSMT MECH. ROOM	003	3/4"	8339W	9D	WATTS
003BFP002	BACKFLOW PREVENTER	BAS CW Make-up	003	3/4"	8339W	9D	WATTS
015BFP001	BACKFLOW PREVENTER	2ND FL MECH	015	3/4"	9520E	9DM2	WATTS
019BFP001	BACKFLOW PREVENTER	B01 CW MAKE-UP	019	1"	834728	ASSE 1013 909	WATTS
019BFP002	BACKFLOW PREVENTER	B01 HW MAKE-UP	019	1"	83478	ASSE 1013 909	WATTS
019BFP003	BACKFLOW PREVENTER	B01 CTR MAKE-UP	019	3/4"	8514W	ASSE 1012 9D	WATTS
019BFP005	BACKFLOW PREVENTER	B111 A/C	019	3/4"	201953	909 CW 14frpz	WATTS
019BFP006	BACKFLOW PREVENTER	B171 A/C	019	3/4"			
016BFP001	BACKFLOW PREVENTER	BAS CW MAKE-UP	016	1/2"	9530E	9DM3	WATTS
004BFP001	BACKFLOW PREVENTER	4E/RM 109A	004				
002BFP001	BACKFLOW PREVENTER	BAS MECH RM.	002	1"	FZ910	40205A2	CONBRACO
001BFP001	BACKFLOW PREVENTER	PROJ RM. 1	001	1/2"	9530E	9D	WATTS
002BFP002	BACKFLOW PREVENTER	BAS MECH CW	002	3/4"	8339W	9D	WATTS
017BFP001	BACKFLOW PREVENTER	BAS HW MAKE-UP	17E	3/4"		909	WATTS
191BFP001	BACKFLOW PREVENTER	Interior MECH RM.	191	3/4"	97820	ASSE 1015 709	WATTS
017BFP002	BACKFLOW PREVENTER	BAS CW MAKE-UP	017	175 PSI	9528E	ASSE 1013 9DM2	WATTS
006BFP001	BACKFLOW PREVENTER	ABOVE SOFTENER	006	2"	K6593	805Y	WILKINS
103BFP001	BACKFLOW PREVENTER	BOILER RM.	103	1/2"	COULDN'T READ	9D	WATTS
005BFP001	BACKFLOW PREVENTER	SOUTH WALL	005	3"	C4708	805Y	FEBCO
003BFP003	BACKFLOW PREVENTER	24" TUNNEL	003	3"	C4707	805Y	FEBCO
016BFP002	BACKFLOW PREVENTER	36" TUNNEL	016	2"			NIBCO
020BFP001	BACKFLOW PREVENTER	CRAWLSPACE	020	1"			
009BFP001	BACKFLOW PREVENTER	WELD SHOP	009	1" AT PC 1000	9528E	9DM2	WATTS
009BFP002	BACKFLOW PREVENTER	LOC RM. A/C	009	3/4"	9522E	9D	WATTS
009BFP003	BACKFLOW PREVENTER	MACHINE SHOP	009	1"			
021BFP001	BACKFLOW PREVENTER	MECH RM. HW	021	1/2"	GV894	40203142	COUBIACO
192BFP001	BACKFLOW PREVENTER	MECH RM. CW	192	3/4"	9520E	ASSE 1012 9DM2	WATTS
191BFP002	BACKFLOW PREVENTER	OUTS MECH R	191	3/4"	9530E	ASSE 1012 9DM2	WATTS
017BFP003	BACKFLOW PREVENTER	BAS EL CAGE	017	3/4"	9528E	9DM2	WATTS
015BFP002	BACKFLOW PREVENTER	NE BAS MECH	015	3/4"	9530E	9D	WATTS
015BFP003	BACKFLOW PREVENTER	BSMT HW Makeup	015	3/4"			
016BFP003	BACKFLOW PREVENTER	BAS MECH HW	016	1/2"	8306W	9D	WATTS
019BFP007	BACKFLOW PREVENTER	A37 HTP/AC	019	3/4"	9520E	ASSE 1012 9DM2	WATTS
019BFP008	BACKFLOW PREVENTER	B129HTP/AC	019	3/4"			
020BFP002	BACKFLOW PREVENTER	MECH. RM.	020	1/2"			
011BFP001	BACKFLOW PREVENTER	SW BAS A/C	011	6"	2A00663	2000SS	AMES

ATTACHMENT C.12-16 BACKFLOW PREVENTER INVENTORY

EQUIPMENT NUMBER	EQUIPMENT NAME	LOCATION	BLDG	SIZE	SERIAL NUMBER	MODEL	MANUFACTURER
013BFP001	BACKFLOW PREVENTER	RM. 5 A/C	013	3/4"			
103BFP002	BACKFLOW PREVENTER	LOFT	103	3/4"			
008BFP001	BACKFLOW PREVENTER	MECH. ROOM	008	1/2"	9321E	9D	WATTS
128BFP001	BACKFLOW PREVENTER	SHOP REAR	128	3/4"	9521E	9DM3	WATTS
010BFP001	BACKFLOW PREVENTER	BFP VAULT	010	4"		975	WILKINS
010BFP002	BACKFLOW PREVENTER	BFP VAULT	010	8"		975	WILKINS
006BFP002	BACKFLOW PREVENTER	CHEM.MIXER	006				SINGLE SWING CHECK VALVE
009BFP004	BACKFLOW PREVENTER	MACHINE SHOP	009	3/4"	9528E	9DM2	WATTS
060BFP001	BACKFLOW PREVENTER	RM.161A	060	MWWP 175 PSI	BO4537	ASSE 1013 975Y	ZURN/WILKINS/FLANGE 6"
157BFP001	BACKFLOW PREVENTER	RM101 OUTS	157	6"	2C0054	ASSE 1015 2000SS	AMES
157BFP002	BACKFLOW PREVENTER		157	3/4"	468130	909QTS	WATTS
157BFP003	BACKFLOW PREVENTER	MECH.RM.	157	1/2"	GW535	40203A2	CANBRACO
061BFP001	BACKFLOW PREVENTER	RM.161A	061	6"	2D00446	ASSE 1015 2000SS	AMES 6"
011BFP002	BACKFLOW PREVENTER	BSMT MECH.	011	3/4"	477058	909QTS	WATTS
016BFP004	BACKFLOW PREVENTER	BAS MECH HW	016	3/4"			
17EBFP004MRB	BACKFLOW PREVENTER	BSMT MECH R	017	1 1/2"	340072	ASSE 1013 909M1QTS	WATTS
017BFP004MRB	BACKFLOW PREVENTER	BSMT MECH R	017	3/4"	101259	ASSE 1013 909S	WATTS
017BFP005	BACKFLOW PREVENTER	BSMT MECH R	017	1-1/2"	340072	ASSE 1013 909M1QTS	WATTS
017BFP006	BACKFLOW PREVENTER	BSMT MECH R	017	3/4"	86030	ASSE 1013 909S	WATTS
018BFP001	BACKFLOW PREVENTER	BOILER RM.	018	1"	441428	ASSE 1013 909S	WATTS
019BFP004	BACKFLOW PREVENTER	A25 A/C	019	N/A	N/A	N/A	N/A
019BFP009	BACKFLOW PREVENTER		019				13'10'& 6' PRESSURE TANKS DON'T HAVE
060BFP002	BACKFLOW PREVENTER	REAR DOCK	060	2"	009M1	ASSE 1013 86663	WATTS
060BFP003	BACKFLOW PREVENTER	RM. 171B	060	2"	B320291	ASSE 1013 975XL	WILKINS
060BFP004	BACKFLOW PREVENTER	PENT HOUSE	060	1"	264419	ASSE 1013 975XL	WILKINS
060BFP005	BACKFLOW PREVENTER	PENT HOUSE	060	1"	264670	ASSE 1013 975XL	WILKINS
060BFP006	BACKFLOW PREVENTER	PENT HOUSE	060	1"	264966	ASSE 1013 975XL	WILKINS
060BFP007	BACKFLOW PREVENTER	PENT HOUSE	060	2"	264964	ASSE 1013 975XL	WILKINS
060BFP008	BACKFLOW PREVENTER	MEZZ STEAM	060	1"	288775	ASSE 1013 975XL	WILKINS
060BFP009	BACKFLOW PREVENTER	RM. 150	060	1"	40880	ASSE 1013 909QT	WATTS
060BFP010	BACKFLOW PREVENTER	RM. 175	060	1-1/2"	300240	ASSE 1013 909M1QT	WATTS
060BFP012	BACKFLOW PREVENTER	RM. 175	060	3/4"	9532E	ASSE 1024 7U2-2	WATTS
060BFP013	BACKFLOW PREVENTER	RM. 175	060	3/4"	UNABLE TO READ	ASSE 1024 7U2-2	WATTS
060BFP011	BACKFLOW PREVENTER	RM. 175	060	3/4"	9717E	ASSE 1024 7U2-2	WATTS
060BFP014	BACKFLOW PREVENTER	RM. 175	060	3/4"	9517E	ASSE 1024 7U2-2	WATTS

ATTACHMENT C.12-16 BACKFLOW PREVENTER INVENTORY

EQUIPMENT NUMBER	EQUIPMENT NAME	LOCATION	BLDG	SIZE	SERIAL NUMBER	MODEL	MANUFACTURER
060BFP015	BACKFLOW PREVENTER	RM. 175	060	1"	PO19	RP-2 1685402J ASSE 1013	CLA-VAL CO.
060BFP016	BACKFLOW PREVENTER	RM. 175	060	1"	PO19	RP-2 1685402J ASSE 1013	CLA-VAL CO.
060BFP017	BACKFLOW PREVENTER	RM. 175	060	1/2"	9810F	ASSE 1012 9D-M3	WATTS
061BFP002	BACKFLOW PREVENTER	RM.161A	061	3/4"	468456	ASSE 1013 909QT	WATTS
012BFP001	BACKFLOW PREVENTER	BSMT MECH.	012	3/4"	477058	909QTS	WATTS

ATTACHMENT C.12-17. FACILITIES AND STRUCTURES

Attachment C.12-17

GENERAL BUILDING FINISHES AND SYSTEMS INFORMATION

General

Reference inventory items listed in the various attachments herein for certain specific components of each dynamic system included in the general building finishes and systems descriptions below. Other information is provided concerning building finishes or items that the Contractor shall be expected to repair, or maintain, beyond the recurring Preventive Maintenance Inspection requirements of this contract. These listings are representative of the types and quantities of components the Contractor shall be required to maintain or repair based on the size of the facility described. The listings are not to be considered as a complete inventory of facilities, systems, and components to be covered under this contract. These listings are furnished as a general reference as to the number of facilities and types of construction and systems the Contractor may be expected to maintain. The Contractor shall field verify these components and satisfy themselves as to the accuracy of the data provided. No increase in Contractor costs will be allowed unless the following conditions exist: 1) location of systems components was hidden behind existing structural finishes; 2) systems components could not be readily observed using reasonable caution and care during the field site visit for bid preparation on this contract.

BUILDING 1

GENERAL

Primary Use Classification - research and development

Floors – 3 above grade, 1 below grade

Total Floor Square Footage - Approximately 71,530 SF

Historical Significance – This building is listed on the National Register For Historical Preservation and is contributing.

EXTERIOR SURFACES

Walls are pre-cast concrete with exposed aggregate finish. Window style is historically significant using galvanized metal frames with insulated glass. Doors are either metal or wood and may be historically significant depending upon type and location. Hardware styles and finishes vary.

INTERIOR SURFACES

Walls may be painted concrete, painted drywall, painted plaster, manufactured cloth-covered panels or unfinished. Floors may be concrete, carpet, asbestos tile, or vinyl tile. Ceilings may be painted concrete, lay-in mineral fiber tile, glued-on mineral fiber tile, glued-on asbestos fiber tile, or plaster. Doors may be either wood or metal with various types of hardware and finishes. Many surfaces are considered historically significant.

INTERIOR PLUMBING/HEATING

Steam Heating

This building is supplied with steel and copper medium pressure steam and condensate return piping of various sizes. Steam pressure reducing stations are located in mechanical spaces. Steam heating system accessories include valves, traps, expansion joints, gauges, and strainers, etc. LP Steam provides heat through convection radiators and fan coil units.

Sump Pump

Sump pump is located in the elevator shaft. Water is pumped for elevator shaft into existing sanitary sewer.

Plumbing Fixtures

Various locations exist for men's and women's restrooms, utility sinks, and kitchen areas. This building is provided with potable water from WSSC that enters the basement through a personnel accessible below grade transverse tunnel. Exterior hose bibs are located on the south side of building 1.

Emergency Eyewash/Emergency-Showers

Emergency eyewash stations and emergency showers are located throughout basement lab areas, wood model fabricating shop, paint shop, and the metal machining shop. All eyewash and showers are supplied by potable water from WSSC.

Backflow Preventers

Backflow preventers are located in basement for potable water system and on A/C chiller water make up lines.

Fire Sprinkler System

The entire building is supplied with wet pipe fire sprinkler system. The main fire protection system enters building 1 on the south side of the wood model fabricating shop.

HEATING, VENTILATING, & AIR CONDITIONING

Cooling

This building is divided up into several zones each with its own cooling system. Several systems run all year to provide cooling for specialty rooms. Water chillers and fan coil units handle most office areas with the exception of the west mezzanine area (secure space) which has a 10 Ton digital variable-air-volume (VAV)/DX system with electric reheat. Specialty areas have heat pumps or computer room A/C units.

Heating

Systems previously listed.

Ventilation

Large exhaust fans serving the metal machining and wood model fabrication shops. Makeup fresh air to office spaces is supplied through air handlers.

INTERIOR ELECTRICAL

Entrance Service

Service is provided from substation # 1 feeder # M-1-6 at 2400 volts through a series of (3) 300 kva transformers for a secondary voltage output of 120/208 VAC and 240 VAC.

Interior Distribution

Distribution of electrical power is done through several main distribution panels and a 480-volt delta and 120/208 volt switchboard located in the basement vault.

Lighting and Power

Most of the lighting throughout the building is provided by standard florescent fixtures that use 4 foot T-8 type lamps except the shop areas which use 8 foot T-12 HO lamps. All lighting in the building is 120 volts. Power for lighting, receptacles and equipment is varied from 120/208, 240 and 480 volts. Most of the equipment is fed from equipment power panels. Lighting and receptacles are fed from lighting panels. 480VAC power is used to supply the large industrial motors used in the wood model fabricating and metal machining operations along with other HVAC equipment loads.

Emergency and Exit Lighting

Emergency lighting is standard 2 lamp, wall-mounted, 6-volt self-charging battery pack type. Exit lights are L.E.D. types, wall or ceiling mounted, with 6-volt self-charging battery back up. All emergency lighting is 120 volts.

Fire Alarm

Fire alarm system consists of one central control panel with 24-volt D.C. battery back up, pull stations, smoke detectors, heat detectors, bells, sprinkler system and communicator/dialer to station firehouse.

BUILDING 2

GENERAL

Primary Use Classification - administration office

Floors – 3 above grade, 1 below grade

Total Floor Square Footage - Approximately 47,200 SF

Historical Significance – This building is listed on the National Register For Historical Preservation and is contributing.

EXTERIOR SURFACES

Walls are pre-cast concrete with exposed aggregate finish. Window style is historically significant using galvanized metal frames with insulated glass. Doors are either metal or wood and may be historically significant depending upon type and location. Hardware styles and finishes vary.

INTERIOR SURFACES

Walls may be painted concrete, painted drywall, painted plaster, manufactured cloth-covered panels, or unfinished. Floors may be concrete, carpet, asbestos tile, or vinyl tile. Ceilings may be painted concrete, lay-in mineral fiber tile, glued-on mineral fiber tile, glued-on asbestos fiber tile,

or plaster. Doors may be either wood or metal with various types of hardware and finishes. Many surfaces are considered historically significant

INTERIOR PLUMBING/HEATING

Steam and Condensate

This building is supplied with steam and condensate return lines of various sizes. The steam heating system runs from October 15, through April 15, of each year. Steam heating system includes traps, expansion joints, steam reducing station, and strainers that make up heating system. Steam provides heat to radiators and fan coil units for the office spaces.

Plumbing Fixtures

Various locations exist for men's and women's restrooms, janitor sinks, kitchens, and utility sinks. This building is provided with potable water from WSSC that enters the basement through transverse tunnel.

Emergency Eyewash/Emergency-Showers

Emergency eyewash/emergency showers are located throughout basement labs All eyewash and showers are supplied by potable water from WSSC.

Backflow Preventers

Backflow preventers are located in basement. Backflow preventers are on the chiller water make up lines.

Fire Sprinkler System

This building is supplied with fire sprinkler system that provides fire protection for all of building 2 including basement. The main fire protection system enters on the south side.

HEATING, VENTILATING & AIR CONDITIONING

Cooling

This building is cooled by one main chilled water system with fan coil units serving office areas. A few smaller systems serve specialty areas.

Heating

Heating is accomplished through the use of a steam to water converter and fan coil units throughout the building.

Ventilation

There are (3) main air handlers, which provide fresh tempered air throughout this building.

INTERIOR ELECTRICAL

Electrical Service

Service to building # 2 is provided from substation # 1 feeder # M-1-4 at 2400 volts through two 225 KVA transformers to 120/208 volts.

Electrical Distribution

Distribution of electrical power is done through several main distribution panels and a 480-volt and 120/208 volt switchboard located in the basement equipment room.

Lighting And Power

Standard florescent fixtures that use 4-foot T-8 type lamps provide most of the lighting throughout the building. All lighting in building is 120 volts. Power for lighting, receptacles and equipment is varied from 120/208, and 480 volts. Most of the equipment is fed from equipment power panels. Lighting and receptacles are fed from lighting panels

Emergency And Exit Lighting

Emergency lighting is standard 2 light wall mounted 6-volt self-charging battery pack type. Exit lights are L.E.D. types, wall or ceiling mounted with 6-volt self-charging battery back up. All emergency lighting is 120 volts.

Fire Alarm

Fire alarm system consists of control panel with 24-volt D.C. battery back up, pull stations, smoke detectors, heat detectors, bells, sprinkler system and communicator/dialer to firehouse

BUILDING 3

GENERAL

Primary Use Classification - research and development

Floors – 3 above grade, 1 below grade

Total Floor Square Footage - Approximately 79,388 SF

Historical Significance – This building is listed on the National Register For Historical Preservation and is contributing.

EXTERIOR SURFACES

Walls are pre-cast concrete with exposed aggregate finish. Window style is historically significant using galvanized metal frames with insulated glass. Doors are either metal or wood and may be historically significant depending upon type and location. Hardware styles and finishes vary.

INTERIOR SURFACES

Walls may be painted concrete, painted drywall, painted plaster, manufactured cloth-covered panels, or unfinished. Floors may be concrete, carpet, asbestos tile, or vinyl tile. Ceilings may be painted concrete, lay-in mineral fiber tile, glued-on mineral fiber tile, glued-on asbestos fiber tile, or plaster. Doors may be either wood or metal with various types of hardware and finishes. Many surfaces are considered historically significant.

INTERIOR PLUMBING/HEATING

Steam and Condensate pumps

This building is supplied with steam and condensate return lines of various sizes. The steam heating system runs from October 15, through April 15, of each year. Steam heating system

includes traps, expansion joints, condensate pumps, and steam reducing stations and strainers that make up heating system. Steam provides heat to radiators to all shop area and fan coil units for the office spaces.

Sump Pumps

Sump pumps for building 3 are in various basement locations. Water is pumped into the sanitary sewer.

Plumbing Fixtures

Various locations exist for men's and women's restrooms, janitor sinks, and utility sinks. This building is provided with potable water from WSSC that enters the basement through transverse tunnel.

Emergency Eyewash/Emergency-Showers

Emergency eyewash/emergency showers are located throughout entire building, and basement labs. All eyewash and showers are supplied by potable water from WSSC.

Backflow Preventers

Backflow preventers are located in basement of building 3. Backflow preventers are on the chiller water make up lines.

Fire Sprinkler System

This building is supplied with fire sprinkler system that provides fire protection for all of building 3 including basement. The main fire protection system enters building 3 on the south side stair well.

HEATING, VENTILATING & AIR CONDITIONING

Cooling

This building is cooled by one main chilled water system with fan coil units serving office areas. There are several other systems within the building serving specialty rooms. An all-weather cooling tower serves several of these smaller systems.

Heating

Heating is accomplished through the use of a steam to water converter and fan coil units throughout the building.

Ventilation

There are (2) main air handlers, which provide fresh tempered air throughout this building.

INTERIOR ELECTRICAL

Electrical Service

Service to building # 3 is provided from substation # 1 feeders # M-1-3 and M-1-7 at 2400 volts through a 750, 500, 300 and 75 KVA transformers to 480Y/120, 440, 208Y/120 and 230 volts.

Electrical Distribution

Distribution of electrical power is done through several main distribution panels and a 480-volt and 120/208 volt switchboard and 230-volt M.D.P. located in the basement.

Lighting and Power

Standard florescent fixtures that use 4-foot T-8 type lamps provide most of the lighting throughout the building. All lighting in building is 120 volts. Power for lighting, receptacles and equipment is varied from 120/208, and 480 volts. Most of the equipment is fed from equipment power panels. Lighting and receptacles are fed from lighting panels

Emergency and Exit Lighting

Emergency lighting is standard 2 light wall mounted 6-volt self-charging battery pack type. Exit lights are L.E.D. types, wall or ceiling mounted with 6-volt self-charging battery back up. All emergency lighting is 120 volts.

FIRE ALARM

Fire alarm system consists of control panel with 24-volt D.C. battery back up, pull stations, smoke detectors, heat detectors, bells, sprinkler system and communicator/dialer to firehouse

BUILDING 4

GENERAL

Primary Use Classification - research and development

Floors – 1 above grade with exception of second floor mezzanine office spaces at the east end of the building, pipe tunnels are below grade

Total Floor Square Footage - Approximately 433,856 SF

Historical Significance – This building is listed on the National Register For Historical Preservation and is contributing.

EXTERIOR SURFACES

Walls are pre-cast concrete with exposed aggregate finish. Window style is historically significant using galvanized metal frames with insulated glass. Doors are either metal or wood and may be historically significant depending upon type and location. Hardware styles and finishes vary.

INTERIOR SURFACES

Walls may be painted concrete, painted drywall, painted plaster, manufactured cloth-covered panels, or unfinished. Floors may be concrete, carpet, asbestos tile, or vinyl tile. Ceilings may be painted concrete, lay-in mineral fiber tile, glued-on mineral fiber tile, glued-on asbestos fiber tile, or plaster. Doors may be either wood or metal with various types of hardware and finishes. Many surfaces are considered historically significant.

INTERIOR PLUMBING/HEATING

Steam and Condensate pumps

This building is supplied with steam and condensate return lines of various sizes. The steam heating system runs from October 15, through April 15, of each year. Steam heating system includes traps, expansion joints, condensate pumps, and steam reducing stations and strainers

that make up heating system. Steam provides heat to radiators to all shop area and fan coil units for the office spaces.

Sump Pumps

Sump pumps for building 4 are in various basement locations. Water is pumped into existing sanitary sewer.

Plumbing Fixtures

Building 4 contains various numbers of men's and women's restrooms, janitor sinks, and utility sinks. This building is provided with potable water from WSSC that enters the basement through transverse tunnel. Exterior hose bib is located at various locations

Emergency Eyewash/Emergency-Showers

Building 4 emergency eyewash/emergency showers are located throughout entire building, and basement labs. All eyewash and showers are supplied by potable water from WSSC.

Backflow Preventers

Backflow preventers are located in basement of building 4. Backflow preventers are on the chiller water make up lines.

Sprinkler System

This building is supplied with fire sprinkler system that provides fire protection for all of building 4 including basement. The main fire protection system enters building 4 at East Side of building and runs entire length of basin north, and south tunnel.

HEATING, VENTILATING & AIR CONDITIONING

Cooling

This building is cooled by several systems that are scattered throughout this large facility. Many window units are utilized as well as split systems under 7.5 tons and one 25 ton vav rooftop system serves the second floor 4E area.

Heating

Heating is accomplished in the tunnel area through the use of steam supplied heating/vent units along the basin. The remainder of the building uses steam radiators/baseboard except where individual systems are located.

Ventilation

There are several heat vent units located along the basin that serve this purpose as well as various exhaust fans throughout usually for shop or bathroom use.

ELECTRICAL SERVICE

Service to building # 4 is provided from substation # 1 feeder # M-1-5 at 2400 volts through a 300 KVA transformer to 600 volts, substation # 2 feeder # H-2-5 at 13800 volts through a 1000 KVA transformer to 2400 volts, substation # 2 feeder # H-2-6 at 13800 volts through a 500 KVA transformer to 208Y/120 volts, substation # 2 feeder H-2-7, at 13800 volts through a 500 KVA transformer to 480Y/277 volts, substation # 4A feeder # M-4A-3 at 2400 volts through a 150 KVA transformer to 208Y/120 volts, substation 4A feeder # M-4A-5 at 2400 volts through 150

and 300 KVA transformers to 480Y/277 and 208Y/120 volts and substation # 4 feeder # H-4-3 at 2400 volts through a 150 KVA transformer to 208Y/120 volts.

ELECTRICAL DISTRIBUTION

Distribution of electrical power is done through several main distribution panels and motor control centers at 2400, 600, 480Y/277, 208Y/120 volts. Panels and motor control centers are located throughout the building.

LIGHTING AND POWER

Most of the office area lighting throughout the building is provided by standard florescent fixtures that use 4 foot T-8 type lamps, bay areas use 400 watt H.P.S. and tunnel uses compact florescent bulbs. Lighting in building is 480 and 120 volts. Power for lighting, receptacles and equipment is varied from 120/208, and 480 volts. Most of the equipment is fed from equipment power panels. Lighting and receptacles are fed from lighting panels.

EMERGENCY AND EXIT LIGHTING

Emergency lighting is standard 2 light wall mounted 6-volt self-charging battery pack type. Exit lights are L.E.D. types, wall or ceiling mounted with 6-volt self-charging battery back up. All emergency lighting is 120 volts.

FIRE ALARM

Fire alarm system consists of control panel with 24-volt D.C. battery back up, pull stations, smoke detectors, heat detectors, bells, sprinkler system and communicator/dialer to firehouse

SWITCH GEAR BATTERY

A 60-cell battery bank that produces 130 volts DC power with a 120 volt AC charging system provides control voltage for switchgear in building

BUILDING 5

GENERAL

Primary Use Classification - research and development

Floors – 2 above grade, 1 below grade

Total Floor Square Footage - Approximately 21,456 SF

Historical Significance – Contributing

EXTERIOR SURFACES

Walls are pre-cast concrete with exposed aggregate finish. Window style is historically significant using galvanized metal frames with insulated glass. Doors are either metal or wood and may be historically significant depending upon type and location. Hardware styles and finishes vary.

INTERIOR SURFACES

Walls may be painted concrete, painted drywall, painted plaster, manufactured cloth-covered panels,or unfinished. Floors may be concrete, carpet, asbestos tile, or vinyl tile. Ceilings may be

painted concrete, lay-in mineral fiber tile, glued-on mineral fiber tile, glued-on asbestos fiber tile, or plaster. Doors may be either wood or metal with various types of hardware and finishes. Many surfaces are considered historically significant.

INTERIOR PLUMBING/HEATING

Steam and Condensate pumps

This building is supplied with steam and condensate return lines of various sizes. The steam heating system runs from October 15, through April 15, of each year. Steam heating system includes traps, expansion joints, condensate pumps, and steam reducing stations and strainers that make up heating system. Steam provides heat to Modine wall or ceiling hung heaters for the basement and circulating water channel.

Plumbing Fixtures

Building 5 contains janitor sinks, and utility sinks. This building is provided with potable water from WSSC that enters the basement through transverse tunnel.

Emergency Eyewash/Emergency-Showers

Building 5 emergency eyewash/emergency showers are located throughout entire building. All eyewash and showers are supplied by potable water from WSSC.

Backflow Preventers

Backflow preventers are located on the south wall. Backflow preventers are located on the make up water line to tanks.

HEATING, VENTILATING & AIR CONDITIONING

Cooling

This building has one small spit system serving the first floor east lab space.

Heating

Heating is accomplished by the use of steam space heaters distributed throughout the building.

Ventilation

Various exhaust fans are located throughout building to exhaust lab and equipment areas.

ELECTRICAL

Electrical Service

Service to building # 5 is provided from substation # 5 feeder # M-5-5 at 2400 volts through a 1000 KVA transformer to 480Y/277 volts.

Electrical Distribution

Distribution of electrical power is done through a main distribution panel and motor control center at 2400, 480Y/277, 208Y/120 volts. M.D.P. Panels and motor control centers are located in the basement and top floor of the building.

Lighting And Power

Most of the lighting throughout the building is provided by standard florescent fixtures that use 4 foot T-8 type lamps, top floor uses 200 watt H.P.S. lighting in building is 480 and 120 volts. Power for lighting, receptacles and equipment is varied from 120/208, and 480 volts. Most of the equipment is fed from equipment power panels. Lighting and receptacles are fed from lighting panels.

Emergency And Exit Lighting

Emergency lighting is standard 2 light wall mounted 6-volt self-charging battery pack type. Exit lights are L.E.D. types, wall or ceiling mounted with 6-volt self-charging battery back up. All emergency lighting is 120 volts.

Fire Alarm

Fire alarm system consists of control panel with 24-volt D.C. battery back up, pull stations, smoke detectors, heat detectors, bells, sprinkler system and communicator/dialer to firehouse

Switch Gear Battery

Control voltage for switchgear in building is provided with a 60-cell battery bank that produces 130-volt DC power with a 120 volt AC charging system.

BUILDING 7

GENERAL

Primary Use Classification - research and development

Floors – 2 above grade, 1 below grade

Total Floor Square Footage - Approximately 29,684 SF

Historical Significance – Contributing

EXTERIOR SURFACES

Walls are pre-cast concrete with exposed aggregate finish. Window style is significant using bronze anodized aluminum frames with insulated glass. Doors are either metal or wood and may be historically significant depending upon type and location. Hardware styles and finishes vary.

INTERIOR SURFACES

Walls may be painted concrete, painted drywall, painted plaster, manufactured cloth-covered panels,or unfinished. Floors may be concrete, carpet, asbestos tile, or vinyl tile. Ceilings may be painted concrete, lay-in mineral fiber tile, glued-on mineral fiber tile, glued-on asbestos fiber tile, or plaster. Doors may be either wood or metal with various types of hardware and finishes. Many surfaces are considered historically significant.

INTERIOR PLUMBING/HEATING

Steam and Condensate

This building is supplied with steam and condensate lines that provide heat to radiators and fan coil units. The steam heating system runs from October 15, through April 15, of each year. Steam heating system includes traps, expansion joints, steam stations, and strainers that make up

heating system. The return condensate pumps are located under building 7 that return under ground to building 6-boiler house.

Sump Pumps

Sump pumps for building 7 are located in the electrical mechanical room. Water is pumped for sump pit into existing sanitary sewer.

Plumbing Fixtures

Building 7 contains various numbers of men's and women's restrooms, janitor sinks, kitchens, and utility sinks. This building is provided with potable water from WSSC that enters the building from eastside of building. Exterior hose bibs are located on the south and eastside of building.

Emergency Eyewash/Emergency-Showers

Building 7 emergency eyewash/emergency showers are located throughout building. All eyewash and showers are supplied by potable water from WSSC.

Backflow Preventers

There aren't any backflow preventers located in building 7.

KITCHEN

This building is equipped with a kitchen area for employees.

JANITOR SINK

Building is equipped with janitorial sinks in various locations for cleaning crew employees.

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HEATING, VENTILATING & AIR CONDITIONING

Cooling

Most if this building is cooled by 2 main roof packaged systems divided into first and second floor zones. These use ceiling dump bypass boxes for space control. Also there are various smaller dx units handling specialty rooms and hot spots.

Heating

Heating is accomplished through the use of steam radiators throughout the building.

Ventilation

Outside of the rooftop units in the summer time there are equipment and bathroom exhausts.

BUILDING 8

GENERAL

Primary Use Classification – administration office

Floors – 1 above grade

Total Floor Square Footage - Approximately 7,931 SF

Historical Significance – Contributing

EXTERIOR SURFACES

Walls are pre-cast concrete. Window style is significant using bronze anodized aluminum frames with insulated glass. Doors are either metal or wood and may be historically significant depending upon type and location. Hardware styles and finishes vary.

INTERIOR SURFACES

Walls may be painted concrete, painted drywall, painted plaster, manufactured cloth-covered panels,or unfinished. Floors may be concrete, carpet, asbestos tile, or vinyl tile. Ceilings may be painted concrete, lay-in mineral fiber tile, glued-on mineral fiber tile, glued-on asbestos fiber tile, or plaster. Doors may be either wood or metal with various types of hardware and finishes. Many surfaces are considered historically significant.

INTERIOR PLUMBING/HEATING

Steam and Condensate

This building is supplied with steam and condensate lines that provide heat to radiators and fan coil units. The steam heating system runs from October 15, through April 15, of each year. Steam heating system includes traps, expansion joints, steam stations, and strainers that make up heating system. Building is equipped with Circulating pumps for heating, and they are located in mechanical room. The return condensate pumps are located under building 8 mechanical room that return under ground to building 6-boiler house.

Sump Pumps

Sump pumps for building 8 are located under building. Water is pumped for sump pit to existing storm sewer.

Plumbing Fixtures

Building 8 contains various numbers of men’s and women’s restrooms, janitor sinks, kitchens, and utility sinks. This building is provided with potable water from WSSC that enters the building from eastside of building. Exterior hose bibs are located on the south and eastside of building.

Emergency Eyewash/Emergency-Showers

Building 8 emergency eyewash/emergency showers are located throughout building. All eyewash and showers are supplied by potable water from WSSC.

Backflow Preventers

Backflow preventers located in mechanical room.

JANITOR SINK

Building is equipped with janitorial sinks in various locations for cleaning crew employees.

HEATING, VENTILATING & AIR CONDITIONING

Cooling

The main portion of building 8 is cooled by 2 rooftop packaged units. Window units and a small spit system serve hot spots and specialty rooms.

Heating

The main portion of building 8 is heated through the use of a steam to water converter and baseboard heating while the new addition uses the smaller rooftop package unit and a steam coil.

Ventilation

Outside of the packaged rooftop a/c units there are bathroom and equipment exhaust fans.

BUILDING 9

GENERAL

Primary Use Classification - metal working and machining shop

Floors – 1 above grade, 1 below grade

Total Floor Square Footage - Approximately 22,660 SF

Historical Significance – Contributing

EXTERIOR SURFACES

Walls are pre-cast concrete with exposed aggregate finish. Window style is historically significant using galvanized metal frames with insulated glass. Doors are either metal or wood and may be historically significant depending upon type and location. Hardware styles and finishes vary.

INTERIOR SURFACES

Walls may be painted concrete, painted drywall, painted plaster, manufactured cloth-covered panels,or unfinished. Floors may be concrete, carpet, asbestos tile, or vinyl tile. Ceilings may be painted concrete, lay-in mineral fiber tile, glued-on mineral fiber tile, glued-on asbestos fiber tile, or plaster. Doors may be either wood or metal with various types of hardware and finishes. Many surfaces are considered historically significant.

INTERIOR PLUMBING/HEATING

Steam and Condensate

Sump Pumps

Sump

Plumbing Fixtures

Emergency Eyewash/Emergency-Showers

Backflow Preventers

Backflow preventers located in mechanical room.

JANITOR SINK

Building is equipped with janitorial sinks in various locations for cleaning crew employees.

HEATING, VENTILATING & AIR CONDITIONING

Cooling

Only the office area, the new north addition and west addition are cooled since the rest of the building is shop space.

Heating

Most of the heating is accomplished using steam space heaters in various locations throughout the shop space with the exception of the spaces served with cooling equipment. These have steam or electric heat coils in them.

Ventilation

There are several exhaust fans throughout this building to ventilate the various gases and fumes from the shop work as well as bathroom exhaust and any ventilation provided by heating/cooling equipment.

BUILDING 10

GENERAL

Primary Use Classification - administration office

Floors – 2 above grade, 1 below grade

Total Floor Square Footage - Approximately 1,998 SF

Historical Significance – Contributing

EXTERIOR SURFACES

Walls are painted pre-cast concrete. Window style is significant using bronze anodized aluminum frames with insulated glass. Doors are either metal or wood and may be historically significant depending upon type and location. Hardware styles and finishes vary.

INTERIOR SURFACES

Walls may be painted concrete, painted drywall, painted plaster, manufactured cloth-covered panels,or unfinished. Floors may be concrete, carpet, asbestos tile, or vinyl tile. Ceilings may be painted concrete, lay-in mineral fiber tile, glued-on mineral fiber tile, glued-on asbestos fiber tile, or plaster. Doors may be either wood or metal with various types of hardware and finishes. Many surfaces are considered historically significant

Cooling

This building has approximately 4 smaller zones each with its own cooling system. A computer room and a lab space make up the specialty areas of this building.

Heating

Heating is accomplished through the use of steam or electric coils in the various air handlers.

Ventilation

Standard ventilation is provided by the hvac equipment in the building with the exception of the lab space that has a ventilation hood and makeup air unit. Standard bathroom fans also installed.

BUILDING 11

GENERAL

Primary Use Classification - research and development

Floors – 2 above grade, 1 below grade

Total Floor Square Footage - Approximately 8,160 SF

Historical Significance – Contributing

EXTERIOR SURFACES

Walls are painted pre-cast concrete. Window style is significant using bronze anodized aluminum frames with insulated glass. Doors are either metal or wood and may be historically significant depending upon type and location. Hardware styles and finishes vary.

INTERIOR SURFACES

Walls may be painted concrete, painted drywall, painted plaster, manufactured cloth-covered panels,or unfinished. Floors may be concrete, carpet, or vinyl tile. Ceilings may be painted concrete, lay-in mineral fiber tile, glued-on mineral fiber tile, glued-on asbestos fiber tile, or plaster. Doors may be either wood or metal with various types of hardware and finishes. Many surfaces are considered historically significant

Cooling

This building is cooled by one 40 ton dx split system using vav boxes for zone control. System is managed by ddc controls.

Heating

Heating is accomplished through the use of reheat coils in the vav boxes.

Ventilation

The vav system provides ventilation throughout. Fume hoods provide exhaust in lab spaces. Typical bathroom exhausts are also present.

BUILDING 12

GENERAL

Primary Use Classification - research and development

Floors – 2 above grade, 1 below grade

Total Floor Square Footage - Approximately 20,800 SF

Historical Significance – Contributing

EXTERIOR SURFACES

Walls are painted pre-cast concrete. Window style is historically significant using galvanized metal frames with single pane glass in some locations. Other locations may have insulated glass block, or bronze anodized aluminum frames with insulated glass. Doors are either metal or wood and may be historically significant depending upon type and location. Hardware styles and finishes vary.

INTERIOR SURFACES

Walls may be painted concrete, painted drywall, painted plaster, manufactured cloth-covered panels,or unfinished. Floors may be concrete, carpet, asbestos tile, or vinyl tile. Ceilings may be painted concrete, lay-in mineral fiber tile, glued-on mineral fiber tile, glued-on asbestos fiber tile, or plaster. Doors may be either wood or metal with various types of hardware and finishes. Many surfaces are considered historically significant

Cooling

Office areas are cooled by individual spit systems. A larger chiller system handles lab space as well as few lab heat exchangers. All weather systems support smaller labs.

Heating

The main open bay area is heated using steam space heaters. Heat pumps support office areas.

An air handler heats larger labs with an electric heater.

Ventilation

A fresh air air handler and equipment room exhaust serves the basement area while local lab, and bathroom exhaust handle the rest of this building.

BUILDING 13

GENERAL

Primary Use Classification - research and development

Floors – 2 above grade, 1 below grade

Total Floor Square Footage - Approximately 16,050 SF

Historical Significance – Contributing

EXTERIOR SURFACES

Walls are painted pre-cast concrete. Window style is significant using bronze anodized aluminum frames with insulated glass. Doors are either metal or wood and may be historically significant depending upon type and location. Hardware styles and finishes vary.

INTERIOR SURFACES

Walls may be painted concrete, painted drywall, painted plaster, manufactured cloth-covered panels,or unfinished. Floors may be concrete, carpet, asbestos tile, or vinyl tile. Ceilings may be painted concrete, lay-in mineral fiber tile, glued-on mineral fiber tile, glued-on asbestos fiber tile, or plaster. Doors may be either wood or metal with various types of hardware and finishes. Many surfaces are considered historically significant

Cooling

This building is divided into first and second floor zones, each with its own water-cooled split system. Also there are various smaller dx units handling specialty rooms and hot spots. A larger computer room a/c unit handles the first floor computer area.

Heating

Heating is accomplished through the use of steam radiators throughout the building.

Ventilation

Outside of the a/c equipment in the summer time there are equipment and bathroom exhausts.

BUILDING 14

GENERAL

Primary Use Classification - administration office

Floors – 1 above grade

Total Floor Square Footage - Approximately 468 SF

Historical Significance - Contributing

EXTERIOR SURFACES

Walls are pre-cast concrete with exposed aggregate finish. Window style is historically significant using galvanized metal frames with insulated glass. Doors are either metal or wood and may be historically significant depending upon type and location. Hardware styles and finishes vary.

INTERIOR SURFACES

Walls may be painted concrete, painted drywall, painted plaster, manufactured cloth-covered panels,or unfinished. Floors may be concrete, carpet, asbestos tile, or vinyl tile. Ceilings may be painted concrete, lay-in mineral fiber tile, glued-on mineral fiber tile, glued-on asbestos fiber tile, or plaster. Doors may be either wood or metal with various types of hardware and finishes. Many surfaces are considered historically significant

Cooling

This small building is cooled using window a/c units.

Heating

Heating is accomplished using steam radiators.

Ventilation

Window a/c units provide the only ventilation here.

BUILDING 15

GENERAL

Primary Use Classification - research and development

Floors – 1 above grade

Total Floor Square Footage - Approximately 26,603 SF

Historical Significance – Contributing

Special Security Requirements – Access is restricted and requires an escort for all work in the building

EXTERIOR SURFACES

Walls are painted pre-cast concrete. Window style is historically significant using galvanized metal frames with insulated glass. Doors are either metal or wood and may be historically significant depending upon type and location. Hardware styles and finishes vary.

INTERIOR SURFACES

Walls may be painted concrete, painted drywall, painted plaster, manufactured cloth-covered panels,or unfinished. Floors may be concrete, carpet, asbestos tile, or vinyl tile. Ceilings may be painted concrete, lay-in mineral fiber tile, glued-on mineral fiber tile, glued-on asbestos fiber tile, or plaster. Doors may be either wood or metal with various types of hardware and finishes. Many surfaces are considered historically significant

Cooling

Most of this (secure) building is divided into 2 main chilled water systems/zones with several smaller systems that handle hot spots and additions. Fan coil units and computer a/c make up most of the terminal units for these zones.

Heating

Heating is accomplished through the use of a steam to water converters and fan coil units or baseboard heat throughout the building with a few minor exceptions.

Ventilation

There are (2) main air handlers that provide fresh tempered air throughout this building. Typical bathroom and equipment exhausts are also present.

BUILDING 16

GENERAL

Primary Use Classification - research and development

Floors – 2 above grade, 1 below grade

Total Floor Square Footage - Approximately 21,516 SF

Historical Significance – Contributing

EXTERIOR SURFACES

Walls are painted pre-cast concrete. Window style is historically significant using galvanized metal frames with single pane glass, or bronze anodized aluminum frames with insulated glass. Doors are either metal or wood and may be historically significant depending upon type and location. Hardware styles and finishes vary.

INTERIOR SURFACES

Walls may be painted concrete, painted drywall, painted plaster, manufactured cloth-covered panels,or unfinished. Floors may be concrete, carpet, asbestos tile, or vinyl tile. Ceilings may be painted concrete, lay-in mineral fiber tile, glued-on mineral fiber tile, glued-on asbestos fiber tile, or plaster. Doors may be either wood or metal with various types of hardware and finishes. Many surfaces are considered historically significant

Cooling

An all weather chiller system and a few split systems cool the office areas. All weather systems and window units support hot spots and specialty areas. The bay area is not cooled.

Heating

The main open bay area is heated using steam space heaters and heating ventilating units. Office areas have air handlers with steam coils.

Ventilation

Heating ventilating units serve the bay area while air handlers serve the office areas. Equipment and bathroom exhaust also apply.

BUILDING 17

GENERAL

Primary Use Classification - research and development

Floors – 2 above grade, 1 below grade

Total Floor Square Footage - Approximately 64,606 SF

Historical Significance – Contributing

EXTERIOR SURFACES

Walls are painted pre-cast concrete. Window style is significant using bronze anodized aluminum frames with insulated glass. Doors are either metal or wood and may be historically significant depending upon type and location. Hardware styles and finishes vary.

INTERIOR SURFACES

Walls may be painted concrete, painted drywall, painted plaster, manufactured cloth-covered panels,or unfinished. Floors may be concrete, carpet, asbestos tile, or vinyl tile. Ceilings may be painted concrete, lay-in mineral fiber tile, glued-on mineral fiber tile, glued-on asbestos fiber tile, or plaster. Doors may be either wood or metal with various types of hardware and finishes. Many surfaces are considered historically significant.

Cooling

This building is divided into 2 main chilled water systems/zones (17W and 17E). 17E is served using a centrifugal chiller providing year round cooling. Computer a/c units serve the math lab area while fan coil units handle office areas. 17W is cooled with separate chillers that provide cooling to fan coil units while a heat reclaim chiller provides cooling to computer space all year.

Heating

At 17E heating is accomplished through the use of a steam to water converter and fan coil units. At 17W a heat reclaim chiller system is utilized with a backup steam converter (in case of chiller failure) and fan coil units.

Ventilation

At 17E an outside-air air handler with tempering coils is used to serve the office space. At 17W there are (2) main air handlers that provide fresh tempered air throughout this building. Typical bathroom and equipment exhausts are also present throughout.

BUILDING 18

GENERAL

Primary Use Classification - research and development

Floors – 1 above grade w/ mezzanine level for second floor, 1 below grade

Total Floor Square Footage - Approximately 260,421 SF

Historical Significance – Non-Contributing

EXTERIOR SURFACES

Walls are corrugated metal and the building structure is similar to a large butler-style building with a half-round shape. There are several small additions that are constructed finished with exterior insulated foam systems. Window style is historically significant using painted metal frames with single pane glass or bronze anodized aluminum frames with insulated glass. Doors are either metal or wood and may be historically significant depending upon type and location. Hardware styles and finishes vary.

INTERIOR SURFACES

Walls may be painted concrete, painted drywall, painted plaster, manufactured cloth-covered panels,or unfinished. Floors may be concrete, carpet, asbestos tile, or vinyl tile. Ceilings may be painted concrete, lay-in mineral fiber tile, glued-on mineral fiber tile, glued-on asbestos fiber tile, or plaster. Doors may be either wood or metal with various types of hardware and finishes. Many surfaces are considered historically significant

Cooling

Most of this building is an open "test pond" area and is not cooled. Several spit systems and window units are scattered throughout this large facility to cool the office spaces. There is a large computer room on the south corner of this facility cooled by dedicated all weather equipment.

Heating

A steam boiler located in the basement provides steam service to the building. Heating is accomplished on the ground floor open space by heating/ventilating units located around the perimeter. The basement area is heated by steam space heaters. Office areas are heated by air handlers with steam coils, heat pumps or baseboard steam heat.

Ventilation

Ventilation is critical in this space due to the high level of moisture caused by the "test ponds" located here. There are several heat vent units and exhaust fans which serve to reduce the high humidity. Other ventilation includes standard fresh air intakes on air handlers, typical bathroom and equipment room exhaust.

BUILDING 19

GENERAL

Primary Use Classification - research and development

Floors – 2 above grade, 1 below grade

Total Floor Square Footage - Approximately 99,170 SF

Historical Significance – Contributing

EXTERIOR SURFACES

Walls are pre-cast concrete with exposed aggregate finish. Window style is historically significant using aluminum metal frames with insulated glass, or painted steel frames with single pane glass. Doors are either metal or wood and may be historically significant depending upon type and location. Hardware styles and finishes vary.

INTERIOR SURFACES

Walls may be painted concrete, painted drywall, painted plaster, manufactured cloth-covered panels,or unfinished. Floors may be concrete, carpet, asbestos tile, or vinyl tile. Ceilings may be painted concrete, lay-in mineral fiber tile, glued-on mineral fiber tile, glued-on asbestos fiber tile, or plaster. Doors may be either wood or metal with various types of hardware and finishes. Many surfaces are considered historically significant

Cooling

This building is cooled by one main chilled water system with fan coil units serving office areas. The auditorium has its own packaged rooftop system. There are several other systems within the building serving specialty rooms and areas.

Heating

Heating is accomplished through the use of a steam to water converter and fan coil units throughout the building. Bay areas are heated using heating/ventilating units. Each smaller system has its own hot water, steam or electric heater.

Ventilation

There are several air handlers that were designed to provide fresh tempered air throughout this building. Heat/ventilation units serve the bay areas in conjunction with rooftop exhaust fans. Typical bathroom and equipment exhausts are also present throughout.

BUILDING 20

GENERAL

Primary Use Classification - police station

Floors – 1 above grade, 1 below grade

Total Floor Square Footage - Approximately 3,279 SF

Historical Significance – Non-Contributing

EXTERIOR SURFACES

Walls are painted concrete with exposed aggregate finish. Window style is significant using painted metal frames with single pane glass, or bronze anodized aluminum frames with insulated glass. Doors are either metal or wood and may be historically significant depending upon type and location. Hardware styles and finishes vary.

INTERIOR SURFACES

Walls may be painted concrete, painted drywall, painted plaster, manufactured cloth-covered panels,or unfinished. Floors may be concrete, carpet, asbestos tile, or vinyl tile. Ceilings may be painted concrete, lay-in mineral fiber tile, glued-on mineral fiber tile, glued-on asbestos fiber tile, or plaster. Doors may be either wood or metal with various types of hardware and finishes.
Cooling

A rooftop-packaged unit cools the main portion of this building.

Heating

The rooftop-packaged unit is gas fired and supports the entire bldg.

Ventilation

The rooftop unit package unit provides the standard ventilation requirement. Bathroom exhaust is also present.

BUILDING 21

GENERAL

Primary Use Classification - research and development

Floors – 1 above grade, 1 below grade

Total Floor Square Footage - Approximately 6,889 SF

Historical Significance – Contributing

EXTERIOR SURFACES

Walls are painted pre-cast concrete. Window style is significant using painted metal frames with single pane glass, or bronze anodized aluminum frames with insulated glass. Doors are either metal or wood and may be historically significant depending upon type and location. Hardware styles and finishes vary.

INTERIOR SURFACES

Walls may be painted concrete, painted drywall, painted plaster, manufactured cloth-covered panels,or unfinished. Floors may be concrete, carpet, asbestos tile, or vinyl tile. Ceilings may be painted concrete, lay-in mineral fiber tile, glued-on mineral fiber tile, glued-on asbestos fiber tile, or plaster. Doors may be either wood or metal with various types of hardware and finishes.

Cooling

This building is cooled by a handful of split systems serving various zones. A larger glycol cooled computer room unit serves the shop area.

Heating

The main portion of building 8 is heated through the use of a steam to water converter and baseboard heating. The shop is heated using hot water space heaters.

Ventilation

Outside of the air brought in by the spit system units used for cooling units. Typical bathroom exhausts are also present.

BUILDING 22

GENERAL

Primary Use Classification - administration office

Floors – 1 above grade

Total Floor Square Footage - Approximately 1,323 SF

Historical Significance – Non-Contributing

EXTERIOR SURFACES

Walls are synthetic stucco. Window style is anodized aluminum. Doors are either metal or wood.

INTERIOR SURFACES

Walls may be painted drywall, manufactured cloth-covered panels,or unfinished. Floors may be concrete, carpet, asbestos tile, or vinyl tile. Ceilings may be painted concrete, lay-in mineral fiber tile, glued-on mineral fiber tile, glued-on asbestos fiber tile, or plaster. Doors may be either wood or metal with various types of hardware and finishes.

PLUMBING

Steam and Condensate

This building is supplied with steam and condensate lines of various sizes, providing heat to radiators and fan coil units. The steam heating system runs from October 15, through April 15, of each year. Steam heating system includes traps, expansion joints, steam reducing stations, and strainers that make up heating system.

Sump Pumps

Building 22 doesn't have sump pumps.

Plumbing Fixtures

Building 22 is the health clinic that has various types of sinks, restrooms, janitor sinks, and utility sinks. This building is provided with potable water from WSSC that enters the building from south side of building.

Emergency Eyewash/Emergency-Showers

Building 22 emergency eyewash/emergency shower is located in restroom.

Backflow Preventers

Backflow preventers aren't provided for building 22.

Janitor Sink

Building is equipped with janitorial sinks in various locations for cleaning crew employees.

Sprinkler System

Building has fire protection system provided by raw water service above drop ceiling. Fire line drops through drop ceiling with sprinkler heads that provides fire protection throughout building. Raw water for the sprinkler enters building from the south side of building.

HEATING, VENTILATING, & AIR CONDITIONING

Cooling

This building is divided into 2 zones, each with its own dx cooling unit.

Heating

One side of this building is heated using electric baseboard radiators and the other side uses a heat pump.

Ventilation

Typical bathroom exhaust fans serve this building.

ELECTRICAL

Electrical Service

Service to building # 22 is provided from building # 1 switchboard # A at 208Y/120-volts

Interior Distribution

Distribution of electrical power is done through lighting panels at 208Y/120-volts

Lighting and Power

Standard florescent fixtures that use 4-foot T-8 type lamps provide most of the lighting throughout the building. All lighting is120-volts. Power for lighting, receptacles and equipment is 208Y/120-volts. All of the equipment, lighting and receptacles are fed from lighting panels.

Emergency and Exit Lighting

Emergency lighting is standard 2 light wall mounted 6-volt self-charging battery pack type. Exit lights are L.E.D. types, wall or ceiling mounted with 6-volt self-charging battery back up. All emergency lighting is 120 volts.

Fire Alarm

Fire alarm system consists of control panels with 24-volt D.C. battery back up, pull stations, smoke detectors, heat detectors, bells, sprinkler system and communicator/dialer to firehouse

BUILDING 23

GENERAL

Primary Use Classification - Tennis Courts

Floors – NA

Total Floor Square Footage - NA

Historical Significance – Non-Contributing

EXTERIOR SURFACES

Area is lined by 12 foot high chainlink fencing. Surface is acrylic-asphalt emulsion.

INTERIOR SURFACES

None

PLUMBING

None

HEATING, VENTILATING, & AIR CONDITIONING

None

ELECTRICAL

None

BUILDING 24

GENERAL

Primary Use Classification - public works shop

Floors – 1 above grade

Total Floor Square Footage - Approximately 775 SF

Historical Significance – Non-Contributing

EXTERIOR SURFACES

Walls are painted masonry block. Window style is modern with mill finish aluminum. Doors are metal. Hardware styles and finishes vary.

INTERIOR SURFACES

Walls are painted masonry block and painted drywall. Floors are concrete and vinyl tile. Ceilings are lay-in mineral fiber tile. Doors are metal with various types of hardware and finishes.

PLUMBING

Steam and Condensate

None

Sump Pumps

None

Plumbing Fixtures

Building 24 has various types of sinks, restrooms, janitor sinks, and utility sinks, and walk-in shower. This building is provided with potable water from WSSC that enters the building from West Side of building.

Emergency Eyewash/Emergency-Showers

Building 24 emergency eyewash/emergency shower is located in mixing room.

Backflow Preventers

Backflow preventers aren't provided for building 24.

Janitor Sink

Building is equipped with janitorial sinks in various locations for cleaning crew employees.

Sprinkler System

None

HEATING, VENTILATING, & AIR CONDITIONING

Cooling

Window units cool office spaces.

Heating

Electric space heaters serve this building.

Ventilation

A fume hood and exhaust fan provides for chemical mixing and another exhaust fan ventilates the chemical storage area. A typical exhaust fan serves the bathroom.

ELECTRICAL

Electrical Service

Service to building # 24 is provided from transformer # 49 at 208Y/120-volts

Interior Distribution

Distribution of electrical power is done through lighting panels at 208Y/120-volts

Lighting and Power

Standard florescent fixtures that use 4-foot T-8 type lamps provide most of the lighting throughout the building. All lighting is120-volts. Power for lighting, receptacles and equipment is 208Y/120-volts. All of the equipment, lighting and receptacles are fed from lighting panels

Emergency and Exit Lighting

Emergency lighting is standard 2 light wall mounted 6-volt self-charging battery pack type. Exit lights are L.E.D. types, wall or ceiling mounted with 6-volt self-charging battery back up. All emergency lighting is 120 volts.

Fire Alarm

Fire alarm system consists of control panels with 24-volt D.C. battery back up, pull stations, smoke detectors, heat detectors, bells, sprinkler system and communicator/dialer to firehouse

BUILDING 25

GENERAL

Primary Use Classification - recreation pavilion

Floors – 1 above grade

Total Floor Square Footage - Approximately 1,421 SF

Historical Significance – Non-Contributing

EXTERIOR SURFACES

Walls are not present. Facility is an open-span roofing system with support columns only. Floor is concrete.

INTERIOR SURFACES

None

PLUMBING

Steam and Condensate

None

Sump Pumps

None

Plumbing Fixtures

None

Emergency Eyewash/Emergency-Showers

None

Backflow Preventers

None

Janitor Sink

None

Sprinkler System

None

HEATING, VENTILATING, & AIR CONDITIONING

None

ELECTRICAL

None

BUILDING 26

GENERAL

Primary Use Classification - industrial water storage tank

Floors – 1 above grade

Total Floor Square Footage - Approximately 9,856 SF holding 2 million gallons.

Historical Significance – Non-Contributing

EXTERIOR SURFACES

Walls are concrete with textured finish.

INTERIOR SURFACES

N/A

PLUMBING

HEATING, VENTILATING, & AIR CONDITIONING

None

ELECTRICAL

None

BUILDING 28

GENERAL

Primary Use Classification - research and development

Floors – 1 above grade, 1 below grade

Total Floor Square Footage - Approximately 800 SF

Historical Significance – Non-Contributing

EXTERIOR SURFACES

Walls are masonry block. Windows are modern with anodized aluminum frames. Doors are metal.

INTERIOR SURFACES

Walls are painted drywall, or unfinished. Floors may be concrete, or vinyl tile. Ceilings may be painted concrete, or lay-in mineral fiber tile. Doors are metal.

PLUMBING

Steam and Condensate

This building is supplied with steam and condensate lines of various sizes, providing heat to radiators and fan coil units. The steam heating system runs from October 15, through April 15, of each year. Steam heating system includes traps, expansion joints, steam reducing stations, and strainers that make up heating system.

Sump Pumps

None

Plumbing Fixtures

None

Emergency Eyewash/Emergency-Showers

None

Backflow Preventers

Backflow preventers aren't provided for building 28.

Janitor Sink

None

Sprinkler System

Building has fire protection system provided by raw water service above drop ceiling. Fire line drops through drop ceiling with sprinkler heads that provides fire protection throughout building. Raw water for the sprinkler enters building from the south side of building.

HEATING, VENTILATING, & AIR CONDITIONING

Cooling

This small building is cooled using a single dx split system.

Heating

Heating is accomplished using a steam coil in the air handler.

Ventilation

Ventilation of this area is provided through a fresh air intake duct on the air handler.

ELECTRICAL

Electrical Service

Service to building # 28 is provided from transformer T-38 at 208Y/120-volts.

Interior Distribution

Distribution of electrical power is done through lighting panel at 208Y/120-volts.

Lighting and Power

Standard florescent fixtures that use 4-foot T-8 type lamps provide most of the lighting throughout the building. Power for lighting, receptacles and equipment is 208Y/120-volts. All of the equipment, lighting and receptacles are fed from lighting panel.

Emergency and Exit Lighting

Emergency lighting is standard 2 light wall mounted 6-volt self-charging battery pack type. Exit lights are L.E.D. types, wall or ceiling mounted with 6-volt self-charging battery back up. All emergency lighting is 120 volts.

Fire Alarm

Fire alarm system consists of control panels with 24-volt D.C. battery back up, pull stations, smoke detectors, heat detectors, bells and communicator/dialer to firehouse.

BUILDING 29

GENERAL

Primary Use Classification - research and development

Floors – 1 above grade

Total Floor Square Footage - Approximately 4,000 SF

Historical Significance – Non-Contributing

EXTERIOR SURFACES

Walls are synthetic stucco. Window style is modern with anodized aluminum frames. Doors are either metal.

INTERIOR SURFACES

Walls are painted drywall. Floors may be concrete, or vinyl tile. Ceilings are lay-in mineral fiber tile. Doors may be either wood or metal with various types of hardware and finishes.

PLUMBING

Steam and Condensate

None

Sump Pumps

Building 29 doesn't have sump pumps.

Plumbing Fixtures

Building 29 has restrooms, janitor sinks, and utility sinks. This building is provided with potable water from WSSC that enters the building from north side of building.

Emergency Eyewash/Emergency-Showers

Building 29 emergency eyewash/emergency shower is located in restroom.

Backflow Preventers

None

Janitor Sink

Building is equipped with janitorial sinks in various locations for cleaning crew employees.

Sprinkler System

Building has fire protection system provided by raw water service above drop ceiling. Fire line drops through drop ceiling with sprinkler heads that provides fire protection throughout building. Raw water for the sprinkler enters building from the north side of building.

HEATING, VENTILATING, & AIR CONDITIONING

Cooling

This building is cooled using packaged heat pumps.

Heating

Packaged heat pumps serve this building.

Ventilation

Outside of the fresh air introduced through the heat pumps bathroom exhaust fans are present.

ELECTRICAL

Electrical Service

Service to building # 29 is provided from building 193 at 208Y/120-volts

Interior Distribution

Distribution of electrical power is done through lighting panels at 208Y/120-volts.

Lighting and Power

Standard florescent fixtures that use 4-foot T-8 type lamps provide most of the lighting throughout the building. Power for lighting, receptacles and equipment is 208Y/120-volts. All of the equipment, lighting and receptacles are fed from lighting panel.

Emergency and Exit Lighting

Emergency lighting is standard 2 light wall mounted 6-volt self-charging battery pack type. Exit lights are L.E.D. types, wall or ceiling mounted with 6-volt self-charging battery back up. All emergency lighting is 120 volts.

Fire Alarm

Fire alarm system consists of control panels with 24-volt D.C. battery back up, pull stations, smoke detectors, heat detectors, bells, sprinkler system and communicator/dialer to firehouse.

BUILDING 30

GENERAL

Primary Use Classification - training

Floors – 1 above grade

Total Floor Square Footage - Approximately 3,800 SF

Historical Significance – Non-Contributing

EXTERIOR SURFACES

Walls are synthetic stucco. Window style is modern with anodized aluminum frames. Doors are metal. Hardware styles and finishes vary.

INTERIOR SURFACES

Walls are painted drywall. Floors be carpet, ceramic tile, or vinyl tile. Ceilings are lay-in mineral fiber tile. Doors may be either wood or metal with various types of hardware and finishes.

PLUMBING

Steam and Condensate

None

Sump Pumps

None

Plumbing Fixtures

Building 30 has restrooms, janitor sinks, and utility sinks. This building is provided with potable water from WSSC that enters the building from north side of building.

Emergency Eyewash/Emergency-Showers

Building 30 emergency eyewash/emergency shower is located in restroom.

Backflow Preventers

None

Janitor Sink

Building is equipped with janitorial sinks in various locations for cleaning crew employees.

Sprinkler System

Building has fire protection system provided by raw water service above drop ceiling. Fire line drops through drop ceiling with sprinkler heads that provides fire protection throughout building. Raw water for the sprinkler enters building from the north side of building.

HEATING, VENTILATING, & AIR CONDITIONING

Cooling

This building is cooled using split system heat pumps.

Heating

Heat pumps serve this building.

Ventilation

Outside of the fresh air introduced through the heat pumps bathroom exhaust fans are present.

ELECTRICAL

Electrical Service

Service to building # 30 is provided from main substation feeder # H-MS-1 at 13800-volts through a 500 KVA transformer to 208Y/120-volts.

Interior Distribution

Distribution of electrical power is done through lighting panels at 208Y/120-volts.

Lighting and Power

Standard florescent fixtures that use 4-foot T-8 type lamps provide most of the lighting throughout the building. Power for lighting, receptacles and equipment is 208Y/120-volts. All of the equipment, lighting and receptacles are fed from lighting panel.

Emergency and Exit Lighting

Emergency lighting is standard 2 light wall mounted 6-volt self-charging battery pack type. Exit lights are L.E.D. types, wall or ceiling mounted with 6-volt self-charging battery back up. All emergency lighting is 120 volts.

Fire Alarm

Fire alarm system consists of control panels with 24-volt D.C. battery back up, pull stations, smoke detectors, heat detectors, bells, sprinkler system and communicator/dialer to firehouse.

BUILDING 31

GENERAL

Primary Use Classification - research and development

Floors – 1 above grade

Total Floor Square Footage - Approximately 4000 SF

Historical Significance – Non-Contributing

EXTERIOR SURFACES

Walls are synthetic stucco. Window style is modern with anodized aluminum frames. Doors are metal. Hardware styles and finishes vary.

INTERIOR SURFACES

Walls are painted drywall. Floors may be concrete, or vinyl tile. Ceilings are lay-in mineral fiber tile. Doors may be either wood or metal with various types of hardware and finishes.

PLUMBING

Steam and Condensate

None

Sump Pumps

None

Plumbing Fixtures

Building 31 has restrooms, janitor sinks, and utility sinks. This building is provided with potable water from WSSC that enters the building from north side of building.

Emergency Eyewash/Emergency-Showers

Building 31 emergency eyewash/emergency shower is located in restroom.

Backflow Preventers

Backflow preventers aren't provided for building 31.

Janitor Sink

Building is equipped with janitorial sinks in various locations for cleaning crew employees.

Sprinkler System

Building has fire protection system provided by raw water service above drop ceiling. Fire line drops through drop ceiling with sprinkler heads that provides fire protection throughout building. Raw water for the sprinkler enters building from the north side of building.

HEATING, VENTILATING, & AIR CONDITIONING Cooling

This building is cooled using packaged heat pumps.

Heating

Packaged heat pumps serve this building.

Ventilation

Bathroom exhaust fans are present.

ELECTRICAL

Electrical Service

Service to building # 31 is provided from building 193 at 208Y/120-volts.

Interior Distribution

Distribution of electrical power is done through lighting panels at 208Y/120-volts.

Lighting and Power

Standard florescent fixtures that use 4-foot T-8 type lamps provide most of the lighting throughout the building. Power for lighting, receptacles and equipment is 208Y/120-volts. All of the equipment, lighting and receptacles are fed from lighting panel.

Emergency and Exit Lighting

Emergency lighting is standard 2 light wall mounted 6-volt self-charging battery pack type. Exit lights are L.E.D. types, wall or ceiling mounted with 6-volt self-charging battery back up. All emergency lighting is 120 volts.

Fire Alarm

Fire alarm system consists of control panels with 24-volt D.C. battery back up, pull stations, smoke detectors, heat detectors, bells, sprinkler system and communicator/dialer to firehouse.

BUILDING 32

GENERAL

Primary Use Classification - administrative

Floors – 1 above grade

Total Floor Square Footage - Approximately 8510 SF

Historical Significance – Non-Contributing

EXTERIOR SURFACES

Walls are synthetic stucco. Window style is modern with anodized aluminum frames. Doors are metal. Hardware styles and finishes vary.

INTERIOR SURFACES

Walls are painted drywall, or paper-covered. Floors may be carpet, or vinyl tile. Ceilings are lay-in mineral fiber tile. Doors may be either wood or metal with various types of hardware and finishes.

PLUMBING

Steam and Condensate

None

Sump Pumps

None

Plumbing Fixtures

Building 32 has restrooms, janitor sinks, and utility sinks. This building is provided with potable water from WSSC that enters the building from northeast side of building.

Emergency Eyewash/Emergency-Showers

Building 32 doesn't have emergency eyewash/emergency shower

Backflow Preventers

Backflow preventer is located in the mechanical room on the eastside of building

Janitor Sink

Building is equipped with janitorial sinks in various locations for cleaning crew employees.

Sprinkler System

Building has fire protection system provided by raw water service above drop ceiling. Fire line drops through drop ceiling with sprinkler heads that provides fire protection throughout building. Raw water for the sprinkler enters building from the eastside of building.

Natural Gas

Supplies heating system

HEATING, VENTILATING, & AIR CONDITIONING

Cooling

Rooftop-packaged units cool this building.

Heating

The rooftop-packaged units are gas fired and support the entire bldg.

Ventilation

The rooftop unit package unit provides the standard ventilation requirement. Bathroom exhaust is also present.

ELECTRICAL

Electrical ServiceService to building # 32 is provided from substation # 1 feeder # M-1-9 at 2400-volts through a 300 KVA transformer to 208Y/120-volts.

Interior Distribution

Distribution of electrical power is done through lighting and equipment panels at 208Y/120-volts.

Lighting and Power

Standard florescent fixtures that use 4-foot T-8 type lamps provide most of the lighting throughout the building. Power for lighting, receptacles and equipment is 208Y/120-volts. All of the equipment is fed from equipment panels, lighting and receptacles are fed from lighting panels

Emergency and Exit Lighting

Emergency lighting is standard 2 light wall mounted 6-volt self-charging battery pack type. Exit lights are L.E.D. types, wall or ceiling mounted with 6-volt self-charging battery back up. All emergency lighting is 120 volts.

Fire Alarm

Fire alarm system consists of control panels with 24-volt D.C. battery back up, pull stations, smoke detectors, heat detectors, bells, sprinkler system and communicator/dialer to firehouse.

BUILDING 52

GENERAL

Primary Use Classification - firefighting apparatus

Floors – 1 above grade

Total Floor Square Footage - Approximately 2050 SF

Historical Significance – Non-Contributing

EXTERIOR SURFACES

Walls are synthetic stucco. Window style is modern with anodized aluminum frames. Doors may be metal or wood. Hardware styles and finishes vary.

INTERIOR SURFACES

Walls may be painted masonry block, or painted drywall. Floors may be concrete, or vinyl tile. Ceilings may be painted drywall, or lay-in mineral fiber tile. Doors may be either wood or metal with various types of hardware and finishes.

PLUMBING

Steam and Condensate

None

Plumbing Fixtures

Building 52 has restrooms, janitor sinks, and utility sinks. This building is provided with potable water from WSSC that enters the building from South-Side of building.

Emergency Eyewash/Emergency-Showers

Building 52 has emergency eyewash/emergency shower

Janitor Sink

Building is equipped with janitorial sinks in various locations for cleaning crew employees.

Natural Gas

Building has natural gas that enters building on the northeast corner of building.

HEATING, VENTILATING, & AIR CONDITIONING

Cooling

This building is cooled with a dx split system a/c unit.

Heating

A high efficiency gas furnace serves this building.

Ventilation

Shop exhaust fans serve the garage area. Typical bathroom exhausts are present.

ELECTRICAL

Electrical Service

Service to building # 52 is provided from substation # 12 feeder # M-12-7 at 2400-volts through a 100 KVA single-phase transformer to 240/120-volts.

Interior Distribution

Distribution of electrical power is done through lighting panels at 240/120-volts.

Lighting and Power

Standard florescent fixtures that use 4-foot T-8 type lamps provide most of the lighting throughout the building. Power for lighting, receptacles and equipment is 208Y/120-volts. All of the equipment, lighting and receptacles are fed from lighting panels

Emergency and Exit Lighting

Emergency lighting is standard 2 light wall mounted 6-volt self-charging battery pack type. Exit lights are L.E.D. types, wall or ceiling mounted with 6-volt self-charging battery back up. All emergency lighting is 120 volts.

Fire Alarm

Fire alarm system consists of control panels with 24-volt D.C. battery back up, pull stations, smoke detectors, heat detectors, bells, sprinkler system and communicator/dialer to firehouse.

Emergency Power

Building 52 has a 15 KVA gas powered alternator tied into emergency power panel. It is used to feed the building in the event of an electrical power outage.

BUILDING 60

GENERAL

Primary Use Classification - research and development

Floors – 3 above grade

Total Floor Square Footage - Approximately 159,160 SF

Historical Significance – Non-Contributing

EXTERIOR SURFACES

Walls are pre-cast concrete with exposed aggregate finish. Window style modern with brushed aluminum frames. Doors are metal. Hardware styles and finishes vary.

INTERIOR SURFACES

Walls may be painted concrete, glass, painted drywall, manufactured cloth-covered panels,or unfinished. Floors may be concrete, carpet, or vinyl tile. Ceilings may be painted concrete, lay-in mineral fiber tile, or painted drywall. Doors may be either wood or metal with various types of hardware and finishes.

PLUMBING

Steam and Condensate

This building is supplied with steam and condensate lines that provide heat to radiators and fan coil units. The steam heating system runs from October 15, through April 15, of each year. Steam heating system includes traps, expansion joints, steam reducing stations, and strainers that make up heating system. Condensate tanks are located on first floor northeast corner of building.

Sump Pumps

Building 60 sump pumps is located in the steam pit on north east corner of building.

Plumbing Fixtures

Building 60 is a three-story laboratory building that has restrooms, janitor sinks, and utility sinks. This building is provided with potable water from WSSC that enters the building from West Side of building. Building has deionize water system that supply labs, deionize system tanks are located on second floor.

Emergency Eyewash/Emergency-Showers

Building 60 has approximately 32 emergency eyewash/emergency shower located throughout building.

Backflow Preventers

Backflow preventer for building range in size of 6” entering building at room 161-A to ½” through lab.

Janitor Sink

Building is equipped with janitorial sinks in various locations for cleaning crew employees.

Sprinkler System

Building has fire protection system provided by raw water service above drop ceiling. Fire line drops through drop ceiling with sprinkler heads that provides fire protection throughout building. Raw water for the sprinkler enters building from the eastside of building.

Natural Gas

Building has natural gas that enters building on the northeast corner of building. Gas is used in labs for oven burners, and furnaces.

Elevator

This building has two elevators one personnel elevator that runs from the first floor to third floor, the second elevator is for freight running from first floor to the third floor.

HEATING, VENTILATING, & AIR CONDITIONING

Cooling

The main portion of this large laboratory building is cooled with a chilled water system using centrifugal chillers. Large air handlers supply air to vav boxes with reheat coils. A gas fired hot water boiler runs all year to provide heat to vav reheat coils and baseboard radiators. A ddc system controls this building. The bay areas are cooled with large rooftop packaged units. A special lab in room 150 controls air to within ½ deg F. Various other smaller cooling systems are scattered throughout this facility that provide lab and comfort cooling.

Heating

A gas fired hot water boiler runs all year to provide hot water to vav reheat coils and baseboard radiators. A clean steam generator provides this building with humidity since 100% outside air

is distributed to most spaces. The rooftop packaged a/c units that serve the bay areas are gas fired.

Ventilation

Lab areas are provided with 100% outside air. Exhaust air is provided through network of large exhaust fans in the penthouse, vav boxes and fume hoods. A complex building pressurization scheme is integrated in this lab design. Office areas have standard ventilation through a mixing box in each air handler. Packaged units in the bay areas provide their own ventilation. Several other exhaust systems are installed throughout this building including: smoke exhaust, paint booth exhaust, caustic exhaust, bathroom exhaust, equipment exhaust etc.

ELECTRICAL

Electrical Service

Service to building # 60 is provided from main substation feeders # H-MS-12 and H-MS-17 at 13800-volts through a 1500 KVA and a 2500 KVA transformer to 480Y/277-volts.

Interior Distribution

Distribution of electrical power is done through lighting panels, equipment panels and motor control centers at 480Y/277 and 208Y/120-volts.

Lighting and Power

Standard florescent fixtures that use PL and T-8 type lamps provide most of the lighting throughout the building. Lighting is 120 and 277-volts. Power for lighting, receptacles and equipment is 480Y/277 and 208Y/120-volts. All of the equipment is fed from equipment panels and motor control centers. Lighting and receptacles are fed from lighting panels.

Emergency and Exit Lighting

Emergency lighting is standard 2 light wall mounted 6-volt self-charging battery pack type. Exit lights are L.E.D. types, wall or ceiling mounted with 6-volt self-charging battery back up. All emergency lighting is 120 volts.

Fire Alarm

Fire alarm system consists of control panels with 24-volt D.C. battery back up, pull stations, smoke detectors, heat detectors, bells, sprinkler system and communicator/dialer to firehouse

Emergency Power

Building 60 has a 300 KVA diesel powered alternator tied into emergency power panel. It is used to feed building 20 and parts of building 60 in the event of an electrical power outage.

BUILDING 61

GENERAL

Primary Use Classification - research and development

Floors – 1 above grade

Total Floor Square Footage - Approximately 4945 SF

Historical Significance – Non-Contributing

EXTERIOR SURFACES

Walls are synthetic stucco. Roof is standing seam metal. Windows are bronze anodized aluminum with insulated glass. Doors are either metal or wood. Hardware styles and finishes vary.

INTERIOR SURFACES

Walls may be painted metal, painted drywall, manufactured cloth-covered panels,or unfinished. Floors may be concrete, carpet, or vinyl tile. Ceilings may be painted metal or lay-in mineral fiber tile. Doors may be either wood or metal with various types of hardware and finishes.

PLUMBING

Steam and Condensate

None

Plumbing Fixtures

Building 61 is a two-story laboratory building that has restrooms, janitor sinks, and utility sinks. This building is provided with potable water from WSSC that enters the building from south Side of building.

Emergency Eyewash/Emergency-Showers

Building 61 has emergency eyewash/emergency shower located throughout building.

Backflow Preventers

Backflow preventer for building 61 range in size of 6” entering building for fire sprinkler system, to ¾” for water cooling equipment.

Janitor Sink

Building is equipped with janitorial sinks in various locations for cleaning crew employees.

Sprinkler System

Building has fire protection system provided by raw water service above drop ceiling. Fire line drops through drop ceiling with sprinkler heads that provides fire protection throughout building. Raw water for the sprinkler enters building from the south side of building.

HEATING, VENTILATING, & AIR CONDITIONING

Cooling

This building is cooled using spit system heat pumps.

Heating

Split system heat pumps serve this building.

Ventilation

Outside of the fresh air introduced through the heat pumps bathroom exhaust fans are present.

ELECTRICAL

Supplied from stepdown transformer behind building at 440/208/120 VAC

General lighting, power, and receptacles for office and industrial use

BUILDING 63

GENERAL

Primary Use Classification - research and development

Floors – 1 above grade

Total Floor Square Footage - Approximately 6000 SF

Historical Significance – N/A

EXTERIOR SURFACES

Walls are vinyl tension fabric membrane. Windows are plastic panel inserts. Doors are metal.

INTERIOR SURFACES

Walls and ceiling are unfinished vinyl membrane. Floor is concrete.

INTERIOR PLUMBING/HEATING

Heating: see below

Water service and floor drains

No restroom facilities

HEATING, VENTILATING, & AIR CONDITIONING

Cooling: none

Heating: Half this facility is heated using ceiling hung electric radiant heaters while the other half is not heated at all.

Ventilation

An exhaust fan on both sides of this facility is installed in the roof fabric.

INTERIOR ELECTRICAL

Entrance Service

Service is provided from building 7 main distribution panels at 208/120 and 480-volts.

Interior Distribution

Distribution of electrical power is done through distribution panels at 208/120 and 480-volts.

Lighting and Power

Most of the lighting throughout the building is provided by 400-watt metal halide fixtures. All lighting in the building is 120 volts. Power for lighting, receptacles and equipment is varied from 120/208, 240 and 480 volts. Most of the equipment is fed from equipment power panels. Lighting and receptacles are fed from lighting panels.

Emergency and Exit Lighting

Emergency lighting is standard 2 lamp, wall-mounted, 6-volt self-charging battery pack type. Exit lights are L.E.D. types, wall or ceiling mounted, with 6-volt self-charging battery back up. All emergency lighting is 120 volts.

Fire Alarm

Fire alarm system consists of one central control panel with 24-volt D.C. battery back up, pull stations, smoke detectors, heat detectors, bells, sprinkler system and communicator/dialer to station firehouse.

BUILDING 68

GENERAL

Primary Use Classification - research and development

Floors – 1 above grade

Total Floor Square Footage - Approximately 10,016 SF

Historical Significance – N/A

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EXTERIOR SURFACES

Walls are exterior finish insulation system (EFIS). Windows are double insulated glass with anodized bronze aluminum frame Doors are metal. Hardware styles and finishes vary.

INTERIOR SURFACES

Walls may be painted drywall, painted CMU, manufactured cloth-covered panels or unfinished. Floors may be concrete, carpet, or vinyl tile. Ceilings may be lay-in mineral fiber tile, or painted drywall. Doors may be either wood or metal with various types of hardware and finishes.

INTERIOR PLUMBING/HEATING

Sump Pump – N/A

Plumbing Fixtures

Various locations exist for men's and women's restrooms, utility sinks, and kitchen areas. This building is provided with potable water.

Emergency Eyewash/Emergency-Showers

Emergency eyewash stations and emergency showers are located throughout lab areas. All eyewash and showers are supplied by potable water.

Backflow Preventers are located mechanical room for potable water system and on A/C chiller water make up lines.

Fire Sprinkler System

The entire building is supplied with wet pipe fire sprinkler system.

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HEATING, VENTILATING, & AIR CONDITIONING

Cooling

This building is served by one main 100% outside air chilled water rooftop air handler which in turn supplies conditioned air to VAV boxes throughout the building. The chiller that serves this rooftop unit is an oversized 240 ton Trane air cooled screw chiller. A small split system serves a computer network closet.

Heating

A 88HP hot water boiler generates heat for this building serving the reheat coils in VAV boxes throughout. An oversized 98HP steam boiler generates steam for 2 humidifiers in bldg 68.

Ventilation

The air handler on the roof provides 100% outside air to this lab research bldg. Air is exhausted through fume hood stations as well as through a main exhaust system in the bldg. The main exhaust system is made up of two 25HP high velocity fans that allow exhaust air to escape the envelope of the surrounding buildings and a network of ductwork and controls which handle room pressurization. Several smaller exhaust fans serve bathroom and specialty areas.

INTERIOR ELECTRICAL

Entrance Service

Service is provided from building 12 switchboard at 480-volts.

Interior Distribution is provided through one 480 volt M.D.P. and several 208/120-volt panels for lighting and equipment

Lighting and Power

Most of the lighting throughout the building is provided by standard florescent fixtures that use 4 foot T-8 type lamps. All lighting in the building is 120 volts. Power for lighting, receptacles and equipment is varied from 120/208, 240 and 480 volts. Most of the equipment is fed from equipment power panels. Lighting and receptacles are fed from lighting panels.

Emergency and Exit Lighting

Emergency lighting is standard 2 lamp, wall-mounted, 6-volt self-charging battery pack type. Exit lights are L.E.D. types, wall or ceiling mounted, with 6-volt self-charging battery back up. All emergency lighting is 120 volts.

Fire Alarm

Fire alarm system consists of one central control panel with 24-volt D.C. battery back up, pull stations, smoke detectors, heat detectors, bells, sprinkler system and communicator/dialer to station firehouse.

BUILDING 80

GENERAL

Primary Use Classification - research and development

Floors – 3 above grade

Total Floor Square Footage - Approximately 23,965 SF

Historical Significance – N/A

Special Construction Requirements – All metals in the building must be non-ferrous due to the type of work performed within the building.

EXTERIOR SURFACES

Walls are exterior finish insulation system (EIFS). Window style is historically significant using galvanized metal frames with insulated glass. Doors are either metal or wood and may be historically significant depending upon type and location. Hardware styles and finishes vary.

INTERIOR SURFACES

Walls may be painted drywall, manufactured cloth-covered panels or unfinished. Floors may be concrete, carpet, or vinyl tile. Ceilings may be lay-in mineral fiber tile or painted drywall, Doors may be either wood or metal with various types of hardware and finishes.

INTERIOR PLUMBING/HEATING

Hot Water Heating

A 50HP hot water boiler generates heat for this building serving the preheat coil in the main air handler and the reheat coils in VAV boxes throughout.

System has underground distribution piping that also serves heating for Buildings 81 and 82.

Sump Pump

Sump pump is located in the elevator shaft. Water is pumped for elevator shaft into existing sanitary sewer.

Plumbing Fixtures

Various locations exist for men's and women's restrooms, utility sinks, and kitchen areas. This building is provided with potable water that enters through the first floor.

Emergency Eyewash/Emergency-Showers

Emergency eyewash stations and emergency showers are located throughout lab areas. All eyewash and showers are supplied by potable water.

Backflow Preventers are located in mech. Room Watts 11/2" 909m101 serial # 361859

Backflow preventers are located on the first floor for potable water system and on A/C chiller water make up lines.

Fire Sprinkler System

The entire building is supplied with wet pipe fire sprinkler system.

Sump Pump

Sump pump is located in the elevator shaft. Water is pumped for elevator shaft into existing sanitary sewer.

Plumbing Fixtures

Various locations exist for men's and women's restrooms, utility sinks, and kitchen areas. This building is provided with potable water that enters through the first floor.

Emergency Eyewash/Emergency-Showers

Emergency eyewash stations and emergency showers are located throughout lab areas. All eyewash and showers are supplied by potable water.

Backflow Preventers

Backflow preventers are located on the first floor for potable water system and on A/C chiller water make up lines.

Fire Sprinkler System

The entire building is supplied with wet pipe fire sprinkler system.

HEATING, VENTILATING, & AIR CONDITIONING

Cooling

Cooling

This building is served by one main 100% outside air chilled water rooftop air handler which in turn supplies conditioned air to VAV boxes throughout the building. The chiller that serves this rooftop unit is an 80 ton Trane air cooled screw chiller. Small split systems serve computer network closets and a few specialty areas.

Heating

Systems previously listed.

Ventilation

Makeup fresh air to office spaces is supplied through the main air handler. Dedicated fan provide exhaust for bathrooms.

INTERIOR ELECTRICAL

Entrance Service

Service is provided from the main substation feeder H-MS-4 through 2 transformers (1000 and 500 KVA) for a secondary voltage output of 440V and 120/208 VAC.

Interior Distribution

Distribution of electrical power is done through several main distribution panels.

Lighting and Power

Most of the lighting throughout the building is provided by standard florescent fixtures that use 4 foot T-8 type lamps. All lighting in the building is 120 volts. Power for lighting, receptacles and equipment is varied from 120/208, 240 and 480 volts. Most of the equipment is fed from equipment power panels. Lighting and receptacles are fed from lighting panels.

Emergency and Exit Lighting

Emergency lighting is standard 2 lamp, wall-mounted, 6-volt self-charging battery pack type. Exit lights are L.E.D. types, wall or ceiling mounted, with 6-volt self-charging battery back up. All emergency lighting is 120 volts.

Fire Alarm

Fire alarm system consists of one central control panel with 24-volt D.C. battery back up, pull stations, smoke detectors, heat detectors, bells, sprinkler system and communicator/dialer to station firehouse.

BUILDING 81

GENERAL

Primary Use Classification - research and development

Floors – 1 above grade with an approximate height of 45 feet

Total Floor Square Footage - Approximately 10,838 SF

Historical Significance – N/A

Special Construction Requirements – All metals in the building must be non-ferrous due to the type of work being performed within the building.

EXTERIOR SURFACES

Walls are exterior finish insulation system (EFIS). Windows are double insulating glass with bronze anodized aluminum frames. Doors are wood. Hardware styles and finishes vary.

INTERIOR SURFACES

Walls may be painted drywall, manufactured cloth-covered panels or unfinished. Floors may be concrete, carpet, or vinyl tile. Ceilings may be painted drywall, lay-in mineral fiber tile, or unfinished. Doors may be either wood or metal with various types of hardware and finishes.

INTERIOR PLUMBING/HEATING

Sump Pump

Sump pump is located in the ground floor level. Water is pumped into existing sanitary sewer.

Plumbing Fixtures

Various locations exist for men's and women's restrooms, utility sinks, and kitchen areas. This building is provided with potable water from WSSC that enters the basement through a personnel accessible below grade transverse tunnel. Exterior hose bibs are located on the south side of building 1.

Emergency Eyewash/Emergency-Showers

Emergency eyewash stations and emergency showers are located throughout basement lab areas, wood model fabricating shop, paint shop, and the metal machining shop. All eyewash and showers are supplied by potable water from WSSC.

Fire Sprinkler System

The entire building is supplied with wet pipe fire sprinkler system.

HEATING, VENTILATING, & AIR CONDITIONING

Cooling

A specialized nonferrous air handler and ductwork was fabricated for this magnetics bldg. It serves this building with the cooling and heating water supplied to it from bldg. 80.

Heating

Systems previously listed.

Ventilation

Fresh and exhaust air to this building is supplied through the main air handler.

INTERIOR ELECTRICAL

Supplied from Building 80.

BUILDING 82

GENERAL

Primary Use Classification - research and development

Floors – 1 above grade

Total Floor Square Footage - Approximately 1236 SF

Historical Significance – N/A

EXTERIOR SURFACES

Walls are exterior finish insulation system (EFIS). Windows may be double insulating glass with bronze anodized aluminum frames or glass block . Doors are wood. Hardware styles and finishes vary.

INTERIOR SURFACES

Walls may be painted drywall, manufactured cloth-covered panels or unfinished. Floors may be concrete, carpet, or vinyl tile. Ceilings may be painted drywall, lay-in mineral fiber tile, or unfinished. Doors may be either wood or metal with various types of hardware and finishes.

PLUMBING

None

HEATING, VENTILATING, & AIR CONDITIONING

Cooling: none

Heating

One hot water space heater is used for heating. Hot water distribution piping comes from bldg 80.

Ventilation

An outside air fan provides fresh air to this space for ventilation.

ELECTRICAL

Supplied from Bldg 80

BUILDING 83

GENERAL

Primary Use Classification - research and development

Floors – 1 above grade

Total Floor Square Footage - Approximately 166 SF

Historical Significance – Non-contributing

EXTERIOR SURFACES

Walls are masonry. There are no windows. Doors are wood.

INTERIOR SURFACES

Walls are unfinished. Ceiling is exposed wood trusses. Floor is concrete.

INTERIOR PLUMBING/HEATING

Heating: none

HEATING, VENTILATING, & AIR CONDITIONING

Cooling: none

Heating: none

Ventilation: none

INTERIOR ELECTRICAL

Service is supplied from Bldg 80.

BUILDING 100

GENERAL

Primary Use Classification – transportation

Floors – 1 above grade

Total Floor Square Footage - Approximately 1,152 SF

Historical Significance – Non-Contributing

EXTERIOR SURFACES

Walls are painted metal. Window style is metal frames with insulated glass. Doors are either metal or wood. Hardware styles and finishes vary.

INTERIOR SURFACES

Walls may be painted drywall, manufactured cloth-covered panels, or unfinished. Floors may be concrete, carpet, asbestos tile, or vinyl tile. Ceilings may be painted drywall or lay-in mineral fiber tile. Doors may be either wood or metal with various types of hardware and finishes.

PLUMBING

Steam and Condensate

None

Sump Pumps

None

Plumbing Fixtures

Building 100 transportation has restrooms, janitor sinks, and utility sinks. This building is provided with potable water from WSSC that enters the building from south Side of building.

Emergency Eyewash/Emergency-Showers

Building 100 doesn't have emergency eyewash or emergency showers.

Janitor Sink

Building is equipped with janitorial sinks in various locations for cleaning crew employees.

HEATING, VENTILATING, & AIR CONDITIONING

Cooling

This building is cooled using a spit system heat pump.

Heating

A split system heat pump serves this building.

Ventilation

Outside of the fresh air introduced through the heat pump bathroom exhaust fans are present.

ELECTRICAL

Electrical Service

Service to building # 100 is provided from building # 111 at 208Y/120-volts.

Interior Distribution

Distribution of electrical power is done through lighting panel to 208Y/120-volts.

Lighting and Power

Standard florescent fixtures that use T-8 type lamps provide most of the lighting throughout the building. Lighting is120-volts. Power for lighting, receptacles and equipment is 208Y/120-volts. All of the equipment, lighting and receptacles are fed from lighting panels.

Emergency and Exit Lighting

Emergency lighting is standard 2 light wall mounted 6-volt self-charging battery pack type. Exit lights are L.E.D. types, wall or ceiling mounted with 6-volt self-charging battery back up. All emergency lighting is 120 volts.

Fire Alarm

Fire alarm system consists of control panels with 24-volt D.C. battery back up, pull stations, smoke detectors, heat detectors, bells, and communicator/dialer to firehouse.

BUILDING 101

GENERAL

Primary Use Classification - Pavilion Restrooms

Floors – 1 above grade

Total Floor Square Footage - Approximately 540 SF

Historical Significance – Non-Contributing

EXTERIOR SURFACES

Walls are painted metal. Doors are either metal or wood. Hardware styles and finishes vary.

INTERIOR SURFACES

Walls may be painted drywall, painted metal , or unfinished. Floors may be concrete, asbestos tile, or vinyl tile. Ceilings may be painted drywall, lay-in mineral fiber tile, glued-on mineral fiber tile, or plaster. Doors may be either wood or metal with various types of hardware and finishes.

PLUMBING

Steam and Condensate

None

Sump Pumps

None.

Plumbing Fixtures

Building 101 has restrooms, janitor sinks, and utility sinks. This building is provided with potable water from WSSC that enters the building from south Side of building.

Emergency Eyewash/Emergency-Showers

Building 101 doesn't have emergency eyewash/emergency showers.

Janitor Sink

Building is equipped with janitorial sinks in various locations for cleaning crew employees.

HEATING, VENTILATING, & AIR CONDITIONING

None

ELECTRICAL

Electrical Service

Service to building # 101 is provided from building # 100 at 208Y/120-volts.

Interior Distribution

Distribution of electrical power is done through lighting panel to 208Y/120-volts.

Lighting and Power

Standard florescent fixtures that use T-8 type lamps provide most of the lighting throughout the building. Lighting is120-volts. Power for lighting, receptacles and equipment is 208Y/120-volts. All of the equipment, lighting and receptacles are fed from lighting panels

Emergency and Exit Lighting

Emergency lighting is standard 2 light wall mounted 6-volt self-charging battery pack type. Exit lights are L.E.D. types, wall or ceiling mounted with 6-volt self-charging battery back up. All emergency lighting is 120 volts.

BUILDING 103

GENERAL

Primary Use Classification - community support

Floors – 1 above grade

Total Floor Square Footage - Approximately 10,054 SF

Historical Significance – Non-Contributing

EXTERIOR SURFACES

Walls are foamed corrugated metal, or exposed wood trim. Window style is wood, or metal, frames with single, or double, insulated glass. Doors are either metal or wood and may be significant depending upon type and location. Hardware styles and finishes vary.

INTERIOR SURFACES

Walls may be painted drywall, manufactured cloth-covered panels,or unfinished. Floors may be concrete, carpet, asbestos tile, or vinyl tile. Ceilings may be painted drywall or lay-in mineral fiber tile. Doors may be either wood or metal with various types of hardware and finishes.

PLUMBING

Steam and Condensate

This building is supplied with steam heat and condensate from boiler located on the northeast corner of building, that provides hot water to the kitchen area, heat to radiators and fan coil units. The steam heating system runs from October 15, through April 15, of each year. Steam heating system includes traps, expansion joints, steam reducing stations, and strainers that make up heating system.

Sump Pumps

Building 103 sump pumps is located inside building.

Plumbing Fixtures

Building 103 is the cafeteria that has restrooms, janitor sinks, and utility sinks. This building is provided with potable water from WSSC that enters the building from south side of building. Building has grease traps that are cleaned by monthly maintenance program.

Emergency Eyewash/Emergency-Showers

Building 103 doesn't have emergency eyewash stations.

Backflow Preventers

Backflow preventers for building 103 are located in the boiler room.

Janitor Sink

Building is equipped with janitorial sinks in various locations for cleaning crew employees.

Sprinkler System

Building has fire protection system provided by raw water service above drop ceiling. Fire line drops through drop ceiling with sprinkler heads that provides fire protection throughout building. Raw water for the sprinkler enters building from the south side of building.

HEATING, VENTILATING, & AIR CONDITIONING

Cooling

This building is divided into 3 zones: the Main Dinning Room, the Visitors Dinning Room and the Credit Union). Direct expansion a/c units (packaged and split) serve these spaces.

Heating

Heating is accomplished through the use of electric baseboard, steam radiators, and a steam to water converter supplying fan coil units in select locations around this building.

Ventilation

Outside of the air brought in through air handlers during cooling season typical bathroom exhausts are present as well as kitchen exhaust and make up air units.

ELECTRICAL

Electrical Service

Service to building # 103 is provided from substation # 12 feeder # M-12-7 at 2400-volts through a 225 KVA transformer to 208Y/120-volts.

Interior Distribution

Distribution of electrical power is done through lighting and equipment panels to 208Y/120-volts.

Lighting and Power

Standard florescent fixtures that use T-8 type lamps provide most of the lighting throughout the building. Lighting is120-volts. Power for lighting, receptacles and equipment is 208Y/120-volts. Most of the equipment is fed from equipment panels. Lighting and receptacles are fed from lighting panels.

Emergency and Exit Lighting

Emergency lighting is standard 2 light wall mounted 6-volt self-charging battery pack type. Exit lights are L.E.D. types, wall or ceiling mounted with 6-volt self-charging battery back up. All emergency lighting is 120 volts.

Fire Alarm

Fire alarm system consists of control panels with 24-volt D.C. battery back up, pull stations, smoke detectors, heat detectors, bells, sprinkler system, CO2 system and communicator/dialer to firehouse.

BUILDING 104

GENERAL

Primary Use Classification - transportation

Floors – 1 above grade

Total Floor Square Footage - Approximately 6,400 SF

Historical Significance – Contributing

EXTERIOR SURFACES

Walls are pre-cast concrete with exposed aggregate finish. Window style is historically significant using galvanized metal frames with insulated glass. Doors are either metal or wood and may be historically significant depending upon type and location. Hardware styles and finishes vary.

INTERIOR SURFACES

Walls may be painted concrete, painted drywall, painted plaster, manufactured cloth-covered panels,or unfinished. Floors may be concrete, carpet, asbestos tile, or vinyl tile. Ceilings may be painted concrete, lay-in mineral fiber tile, glued-on mineral fiber tile, glued-on asbestos fiber tile, or plaster. Doors may be either wood or metal with various types of hardware and finishes. Many surfaces are considered historically significant

PLUMBING

Steam and Condensate

This building is supplied with steam and condensate lines that provide heat to radiators and fan coil units. The steam heating system runs from October 15, through April 15, of each year. Steam heating system includes traps, expansion joints, steam reducing stations, and strainers that make up heating system.

Sump Pumps

Building sump pumps are combined with oil separator that is located in number three wash-bay, on the southeast wall.

Plumbing Fixtures

Building 104 is the base garage that has restrooms, janitor sinks, and utility sinks. This building is provided with potable water from WSSC that enters the building from West Side of building. Building 104 has sewage injector pumps that pump to main sanitary sewer.

Emergency Eyewash/Emergency-Showers

Building 104 have emergency eyewash located in the wash room.

Janitor Sink

Building is equipped with janitorial sinks in various locations for cleaning crew employees.

Car Lift

This building has two car lifts.

HEATING, VENTILATING, & AIR CONDITIONING

Cooling

Window units cool office spaces.

Heating

Heating is accomplished using steam space heaters in various locations.

Ventilation

A car fume exhaust system is present as well as typical bathroom exhausts.

ELECTRICAL

Electrical Service

Service to building # 104 is provided from building # 119 at 208Y/120-volts.

Interior Distribution

Distribution of electrical power is done through lighting and equipment panels to 208Y/120-volts.

Lighting and Power

Standard florescent fixtures that use T-8 type lamps provide lighting for the office area 400-watt metal halide for bay areas. Lighting is120-volts. Power for lighting, receptacles and equipment is 208Y/120-volts. Most of the equipment is fed from equipment panels. Lighting and receptacles are fed from lighting panels.

Emergency and Exit Lighting

Emergency lighting is standard 2 light wall mounted 6-volt self-charging battery pack type. Exit lights are L.E.D. types, wall or ceiling mounted with 6-volt self-charging battery back up. All emergency lighting is 120 volts.

Fire Alarm

Fire alarm system consists of control panels with 24-volt D.C. battery back up, pull stations, smoke detectors, heat detectors, bells, sprinkler system, CO2 system and communicator/dialer to firehouse.

BUILDING 105

GENERAL

Primary Use Classification - research and development

Floors – Facility is a test pit

Total Floor Square Footage – N/A

Historical Significance – Contributing

EXTERIOR SURFACES

N/A

INTERIOR SURFACES

N/A

PLUMBING

N/A

HEATING, VENTILATING, & AIR CONDITIONING

N/A

ELECTRICAL

208/120 VAC for operating overhead crane and accessories

BUILDING 106

GENERAL

Primary Use Classification - research and development

Floors – 1 above grade, 1 below grade

Total Floor Square Footage - Approximately 1300 SF

Historical Significance – Contributing

EXTERIOR SURFACES

Walls are metal. Window style is historically significant using galvanized metal frames with insulated glass. Doors are either metal or wood. Hardware styles and finishes vary.

INTERIOR SURFACES

Walls may be painted metal, painted drywall, or unfinished. Floors may be concrete, carpet, or vinyl tile. Ceilings may be painted drywall, painted metal, lay-in mineral fiber tile, or unfinished. Doors may be either wood or metal with various types of hardware and finishes.

PLUMBING

None

HEATING, VENTILATING, & AIR CONDITIONING

Cooling

This building is cooled using a packaged heat pump.

Heating

A packaged heat pump serves this building.

Ventilation

Fresh air is introduced through the heat pump.

ELECTRICAL

Electrical Service

Service to building # 106 is provided from transformer # T-30 at 208Y/120-volts.

Interior Distribution

Distribution of electrical power is done through lighting panel at 208Y/120-volts.

Lighting and Power

Standard florescent fixtures that use T-8 type lamps provide lighting for the building. Lighting is120-volts. Power for lighting, receptacles and equipment is 208Y/120-volts. All of the equipment, lighting and receptacles are fed from lighting panels.

Emergency and Exit Lighting

Emergency lighting is standard 2 light wall mounted 6-volt self-charging battery pack type. Exit lights are L.E.D. types, wall or ceiling mounted with 6-volt self-charging battery back up. All emergency lighting is 120 volts.

Fire Alarm

There is no fire alarm in this building.

BUILDING 108

General

Primary Use Classification - storage

Floors – 1 above grade

Total Floor Square Footage - Approximately 250 SF

Historical Significance – Contributing

EXTERIOR SURFACES

Walls are painted pre-cast concrete. Window style is historically significant using wood frames with single pane glass. Doors are either metal or wood and may be historically significant depending upon type and location. Hardware styles and finishes vary.

INTERIOR SURFACES

Walls are painted concrete, or unfinished. Floors are concrete.

PLUMBING

Steam and Condensate

None

Plumbing Fixtures

Building 108 has restrooms, janitor sinks, and utility sinks. This building is provided with potable water from WSSC that enters the building from eastside of building.

Janitor Sink

Building is equipped with janitorial sinks in various locations for cleaning crew employees.

Sprinkler System

Building 108 doesn't have sprinklers.

HEATING, VENTILATING, & AIR CONDITIONING

Cooling

Window a/c cools this space.

Heating

Heating is accomplished using electric space heaters.

Ventilation

A typical bathroom exhaust fan is used.

ELECTRICAL

Electrical Service

Service to building # 108 is provided from transformer # T-30 at 208Y/120-volts.

Interior Distribution

Distribution of electrical power is done through lighting panel at 208Y/120-volts.

Lighting and Power

Standard florescent fixtures that use T-8 type lamps provide lighting for the building. Lighting is120-volts. Power for lighting, receptacles and equipment is 208Y/120-volts. All of the equipment, lighting and receptacles are fed from lighting panel.

Emergency and Exit Lighting

Emergency lighting is standard 2 light wall mounted 6-volt self-charging battery pack type. Exit lights are L.E.D. types, wall or ceiling mounted with 6-volt self-charging battery back up. All emergency lighting is 120 volts.

Fire Alarm

None

BUILDING 109

GENERAL

Primary Use Classification - storage

Floors – 1 above grade

Total Floor Square Footage - Approximately 7,362 SF

Historical Significance – Contributing

EXTERIOR SURFACES

Walls are asbestos board covered with metal siding. Doors are overhead coiling type with a few metal personnel doors. Hardware styles and finishes vary.

INTERIOR SURFACES

Walls may be painted drywall, T-111 wood paneling,or unfinished. Floors may be concrete, carpet, or vinyl tile. Ceilings may be painted drywall, lay-in mineral fiber tile, or unfinished. Doors may be either wood or metal with various types of hardware and finishes. Many surfaces are considered historically significant

PLUMBING

None

HEATING, VENTILATING, & AIR CONDITIONING

Cooling

Window a/c units cool lab and office space.

Heating

Heating is accomplished in occupied areas using window units and unit heaters.

Ventilation

Window a/c units and a lab exhaust fan provide the only ventilation here.

ELECTRICAL

Electrical Service

Service to building # 109 is provided from substation # 1 feeder # M-1-11 at 2400-volts through a 112.5 KVA transformer to 208Y/120-volts.

Interior Distribution

Distribution of electrical power is done through lighting panels at 208Y/120-volts.

Lighting and Power

Standard florescent fixtures that use T-8 type lamps provide lighting for the building. Lighting is120-volts. Power for lighting, receptacles and equipment is 208Y/120-volts. All of the equipment, lighting and receptacles are fed from lighting panels.

Emergency and Exit Lighting

Emergency lighting is standard 2 light wall mounted 6-volt self-charging battery pack type. Exit lights are L.E.D. types, wall or ceiling mounted with 6-volt self-charging battery back up. All emergency lighting is 120 volts.

Fire Alarm

None

BUILDING 110

GENERAL

Primary Use Classification - storage

Floors – 1 above grade

Total Floor Square Footage - Approximately 6,786 SF

Historical Significance – Contributing

EXTERIOR SURFACES

Walls are asbestos board covered with metal siding. Doors are overhead coiling type with a few metal personnel doors. Hardware styles and finishes vary.

INTERIOR SURFACES

Walls may be painted drywall, T-111 wood paneling,or unfinished. Floors may be concrete, carpet, or vinyl tile. Ceilings may be painted drywall, lay-in mineral fiber tile, or unfinished. Doors may be either wood or metal with various types of hardware and finishes. Many surfaces are considered historically significant

PLUMBING

None

HEATING, VENTILATING, & AIR CONDITIONING

None

ELECTRICAL

Electrical Service

Service to building # 110 is provided from building # 111 at 208Y/120-volts.

Interior Distribution

Distribution of electrical power is done through lighting panels at 208Y/120-volts.

Lighting and Power

Standard florescent fixtures that use T-8 type lamps provide lighting for the building. Lighting is120-volts. Power for lighting, receptacles and equipment is 208Y/120-volts. All of the equipment, lighting and receptacles are fed from lighting panels.

Emergency and Exit Lighting

Emergency lighting is standard 2 light wall mounted 6-volt self-charging battery pack type. Exit lights are L.E.D. types, wall or ceiling mounted with 6-volt self-charging battery back up. All emergency lighting is 120 volts.

Fire Alarm

None

BUILDING 111

GENERAL

Primary Use Classification - administrative

Floors – 1 above grade

Total Floor Square Footage - Approximately 2,320 SF

Historical Significance – Contributing

EXTERIOR SURFACES

Walls are asbestos board covered with metal siding. Doors are metal or wood. Windows are wood frames with single pane glass.Hardware styles and finishes vary.

INTERIOR SURFACES

Walls may be painted drywall, manufactured cloth-covered panels,or unfinished. Floors may be concrete, carpet, asbestos tile, or vinyl tile. Ceilings may be drywall, lay-in mineral fiber tile,

glued-on mineral fiber tile, glued-on asbestos fiber tile, or plaster. Doors may be either wood or metal with various types of hardware and finishes. Many surfaces are considered historically significant

PLUMBING

Steam and Condensate

This building is supplied with steam and condensate lines that provide heat to radiators and fan coil units. The steam heating system runs from October 15, through April 15, of each year. Steam heating system includes traps, expansion joints, steam reducing stations, and strainers that make up heating system.

Plumbing Fixtures

Building 111 has restrooms, janitor sinks, and utility sinks. This building is provided with potable water from WSSC that enters the building from south Side of building. Sewage injector pumps are located in rear of building 111.

Janitor Sink

Building is equipped with janitorial sinks in various locations for cleaning crew employees.

Sprinkler System

Building has fire protection system provided by raw water service above drop ceiling. Fire line drops through drop ceiling with sprinkler heads that provides fire protection throughout building. Raw water for the sprinkler enters building from the south side of building.

HEATING, VENTILATING, & AIR CONDITIONING

Cooling

This building is cooled by 2 stage split system.

Heating

This building is heated using steam radiator/baseboard heat.

Ventilation

Outside of the air brought in through air handlers during cooling season typical bathroom exhausts are also present.

ELECTRICAL

Electrical Service

Service to building # 111 is provided from substation # 1 feeder # M-1-11 at 2400-volts through three 75 KVA single-phase transformers to 208Y/120-volts.

Interior Distribution

Distribution of electrical power is done through equipment and lighting panels at 208Y/120-volts.

Lighting and Power

Standard florescent fixtures that use T-8 type lamps provide lighting for the building. Lighting is120-volts. Power for lighting, receptacles and equipment is 208Y/120-volts. All of the equipment is fed from equipment panel; lighting and receptacles are fed from lighting panels.

Emergency and Exit Lighting

Emergency lighting is standard 2 light wall mounted 6-volt self-charging battery pack type. Exit lights are L.E.D. types, wall or ceiling mounted with 6-volt self-charging battery back up. All emergency lighting is 120 volts.

Fire Alarm

Fire alarm system consists of control panels with 24-volt D.C. battery back up, pull stations, smoke detectors, bells, and communicator/dialer to firehouse.

BUILDING 112

GENERAL

Primary Use Classification - administrative

Floors – 1 above grade

Total Floor Square Footage - Approximately 2,440 SF

Historical Significance – Contributing

EXTERIOR SURFACES

Walls are asbestos board covered with metal siding. Doors are metal or wood. Windows are wood frames with single pane glass. Hardware styles and finishes vary.

INTERIOR SURFACES

Walls may be painted drywall, manufactured cloth-covered panels,or unfinished. Floors may be concrete, carpet, asbestos tile, or vinyl tile. Ceilings may be drywall, lay-in mineral fiber tile, glued-on mineral fiber tile, glued-on asbestos fiber tile, or plaster. Doors may be either wood or metal with various types of hardware and finishes. Many surfaces are considered historically significant

PLUMBING

Steam and Condensate

This building is supplied with steam and condensate lines that provide heat to radiators and fan coil units. The steam heating system runs from October 15, through April 15, of each year. Steam heating system includes traps, expansion joints, steam reducing stations, and strainers that make up heating system.

Plumbing Fixtures

Building 112 has restrooms, janitor sinks, and utility sinks. This building is provided with potable water from WSSC that enters the building from south Side of building. sewage injector pumps located in men's restroom.

Janitor Sink

Building is equipped with janitorial sinks in various locations for cleaning crew employees.

Sprinkler System

Building has fire protection system provided by raw water service above drop ceiling. Fire line drops through drop ceiling with sprinkler heads that provides fire protection throughout building. Raw water for the sprinkler enters building from the south side of building.

HEATING, VENTILATING, & AIR CONDITIONING

Cooling

A split system a/c unit cools this building.

Heating

This building is heated using a steam coil in the air handler.

Ventilation

Outside of the air brought in through the air handler, typical bathroom exhausts are also present.

ELECTRICAL

Electrical Service

Service to building # 112 is provided from building # 111 at 208Y/120-volts.

Interior Distribution

Distribution of electrical power is done through equipment and lighting panels at 208Y/120-volts.

Lighting and Power

Standard florescent fixtures that use T-8 type lamps provide lighting for the building. Lighting is120-volts. Power for lighting, receptacles and equipment is 208Y/120-volts. All of the equipment is fed from equipment panel; lighting and receptacles are fed from lighting panels.

Emergency and Exit Lighting

Emergency lighting is standard 2 light wall mounted 6-volt self-charging battery pack type. Exit lights are L.E.D. types, wall or ceiling mounted with 6-volt self-charging battery back up. All emergency lighting is 120 volts.

Fire Alarm

Fire alarm system consists of control panels with 24-volt D.C. battery back up, pull stations, heat detectors, bells, and communicator/dialer to firehouse. Buildings # 112 and 113 share a common fire alarm system.

BUILDING 113

GENERAL

Primary Use Classification - storage

Floors – 1 above grade

Total Floor Square Footage - Approximately 2,440 SF

Historical Significance – Contributing

EXTERIOR SURFACES

Walls are asbestos board covered with metal siding. Doors are metal or wood. Windows are wood frames with single pane glass. Hardware styles and finishes vary.

INTERIOR SURFACES

Walls may be painted drywall, manufactured cloth-covered panels,or unfinished. Floors may be concrete, carpet, asbestos tile, or vinyl tile. Ceilings may be drywall, lay-in mineral fiber tile, glued-on mineral fiber tile, glued-on asbestos fiber tile, or plaster. Doors may be either wood or metal with various types of hardware and finishes. Many surfaces are considered historically significant

PLUMBING

Steam and Condensate

This building is supplied with steam and condensate lines that provide heat to radiators and fan coil units. The steam heating system runs from October 15, through April 15, of each year. Steam heating system includes traps, expansion joints, steam reducing stations, and strainers that make up heating system. Condensate tanks are located on first floor south-side of building.

Sump Pumps

Building 113 sump pumps is located in the men’s restroom.

Plumbing Fixtures

Building 113 has restrooms, janitor sinks, and utility sinks. This building is provided with potable water from WSSC that enters the building from south Side of building. Sewage injector pumps are located in men’s restroom.

Janitor Sink

Building is equipped with janitorial sinks in various locations for cleaning crew employees.

Sprinkler System

Building has fire protection system provided by raw water service above drop ceiling. Fire line drops through drop ceiling with sprinkler heads that provides fire protection throughout building. Raw water for the sprinkler enters building from the south side of building.

HEATING, VENTILATING, & AIR CONDITIONING

Cooling

A split system a/c unit cools this building as well as a few window units.

Heating

This building is heated using steam radiators.

Ventilation

Outside of the air brought in through the air handler and window units during cooling season, typical bathroom exhausts are also present.

ELECTRICAL

Electrical Service

Service to building # 113 is provided from building # 111 at 208Y/120-volts.

Interior Distribution

Distribution of electrical power is done through equipment and lighting panels at 208Y/120-volts.

Lighting and Power

Standard florescent fixtures that use T-8 type lamps provide lighting for the building. Lighting is120-volts. Power for lighting, receptacles and equipment is 208Y/120-volts. All of the equipment is fed from equipment panel; lighting and receptacles are fed from lighting panels.

Emergency and Exit Lighting

Emergency lighting is standard 2 light wall mounted 6-volt self-charging battery pack type. Exit lights are L.E.D. types, wall or ceiling mounted with 6-volt self-charging battery back up. All emergency lighting is 120 volts.

Fire Alarm

Buildings #112 and 113 share a common fire alarm system.

BUILDING 116

GENERAL

Primary Use Classification - research and development

Floors – 1 above grade

Total Floor Square Footage - Approximately 1925 SF

Historical Significance – Non- Contributing

EXTERIOR SURFACES

Walls are metal. Window style is metal frames with insulated glass. Doors are either metal or wood. Hardware styles and finishes vary.

INTERIOR SURFACES

Walls may be painted drywall, painted metal, manufactured cloth-covered panels,or unfinished. Floors may be concrete, carpet, or vinyl tile. Ceilings may be painted metal, lay-in mineral fiber tile, or unfinished. Doors may be either wood or metal with various types of hardware and finishes.

PLUMBING

Steam and Condensate

None

Plumbing Fixtures

Building 116 has restrooms, janitor sinks, and utility sinks. This building is provided with potable water from WSSC that enters the building from south Side of building.

Emergency Eyewash/Emergency-Showers

None

Janitor Sink

Building is equipped with janitorial sinks in various locations for cleaning crew employees.

Sprinkler System

None

HEATING, VENTILATING, & AIR CONDITIONING

Cooling

This building is cooled using a split system heat pump.

Heating

A split system heat pump serves this building.

Ventilation

Outside of the fresh air introduced through the heat pump a bathroom exhaust fan is present.

ELECTRICAL

Electrical Service

Service to building # 116 is provided from building # 111 at 208Y/120-volts.

Interior Distribution

Distribution of electrical power is done through equipment and lighting panels at 208Y/120-volts.

Lighting and Power

Standard florescent fixtures that use T-8 type lamps provide lighting for the building. Lighting is120-volts. Power for lighting, receptacles and equipment is 208Y/120-volts. All of the equipment is fed from equipment panel; lighting and receptacles are fed from lighting panels.

Emergency and Exit Lighting

Emergency lighting is standard 2 light wall mounted 6-volt self-charging battery pack type. Exit lights are L.E.D. types, wall or ceiling mounted with 6-volt self-charging battery back up. All emergency lighting is 120 volts.

Fire Alarm

None

BUILDING 117

GENERAL

Primary Use Classification - hazardous waste storage

Floors – 1 above grade

Total Floor Square Footage - Approximately 400 SF

Historical Significance – Non-Contributing

EXTERIOR SURFACES

There are no walls. This facility is constructed of rectangular steel tube columns on concrete footings. The floor is a monolithic poured concrete surface to contain spilled waste. The roof is constructed of wooded trusses with plywood sheathing and shingles.

INTERIOR SURFACES

N/A

PLUMBING

Steam and Condensate

None

Plumbing Fixtures

None

Emergency Eyewash/Emergency-Showers

One is located immediately adjacent to the facility

HEATING, VENTILATING, & AIR CONDITIONING

None

ELECTRICAL

Electrical Service

Service to building # 117 is provided from transformer behind Bldg 125 at 120/208-volts.

Interior Distribution

Distribution of electrical power is done through lighting panel at 120/208-volts.

Lighting and Power

Standard florescent fixtures that use T-8 type lamps provide lighting for the building. Lighting is120-volts. Power for lighting, receptacles and equipment is 120/208-volts. All of the equipment, lighting and receptacles are fed from lighting panels.

Emergency and Exit Lighting

Emergency lighting is standard 2 light wall mounted 6-volt self-charging battery pack type. Exit lights are L.E.D. types, wall or ceiling mounted with 6-volt self-charging battery back up. All emergency lighting is 120 volts.

Fire Alarm

None

BUILDING 119

GENERAL

Primary Use Classification - research and development

Floors – 1 above grade

Total Floor Square Footage - Approximately 1,170 SF

Historical Significance – Contributing

EXTERIOR SURFACES

Walls are synthetic plastic wall panel system. Window style is metal frame with single pane glass. Doors are metal. Hardware styles and finishes vary.

INTERIOR SURFACES

Walls are painted metal, or fiberboard. Floors are concrete. Ceilings are painted fiberboard. Doors may be either wood or metal with various types of hardware and finishes.

PLUMBING

None

HEATING, VENTILATING, & AIR CONDITIONING

Cooling

There is no cooling in this building.

Heating

This facility is heated using steam space heaters.

Ventilation

A building roof-mounted exhaust fan serves this equipment building.

ELECTRICAL

Electrical Service

Service to building # 119 is provided from substation # 1 feeder # M-1-11 at 2400-volts through a 112.5 KVA transformer to 208Y/120.

Interior Distribution

Distribution of electrical power is done through equipment panels and lighting panels at 208Y/120-volts.

Lighting and Power

200-watt incandescent type lamps provide lighting for the building. Lighting is120-volts. Power for lighting, receptacles and equipment is 208Y/120-volts. All of the equipment is fed from equipment panel; lighting and receptacles are fed from lighting panels.

Emergency and Exit Lighting

Emergency lighting is standard 2 light wall mounted 6-volt self-charging battery pack type. Exit lights are L.E.D. types, wall or ceiling mounted with 6-volt self-charging battery back up. All emergency lighting is 120 volts.

Fire Alarm

None

BUILDING 120

GENERAL

Primary Use Classification - explosives storage

Floors – 1 above grade earth bunker

Total Floor Square Footage - Approximately 600 SF

Historical Significance – Contributing

EXTERIOR SURFACES

All surfaces are heavy concrete construction covered with earth. The front entrance is open and protected by metal access gate.

INTERIOR SURFACES

Concrete. All connected metal surfaces are grounded.

PLUMBING

None

HEATING, VENTILATING, & AIR CONDITIONING

None

ELECTRICAL

None

BUILDING 121

GENERAL

Primary Use Classification - administrative

Floors – 2 above grade

Total Floor Square Footage - Approximately 30,010 SF

Historical Significance – Contributing

EXTERIOR SURFACES

Walls are synthetic stucco. Window style is bronze anodized aluminum with insulated glass. Doors are either metal or wood. Hardware styles and finishes vary.

INTERIOR SURFACES

Walls may be painted drywall, painted plaster, manufactured cloth-covered panels,or unfinished. Floors may be concrete, carpet, asbestos tile, or vinyl tile. Ceilings may be painted drywall, lay-in mineral fiber tile, glued-on mineral fiber tile, glued-on asbestos fiber tile, or plaster. Doors may be either wood or metal with various types of hardware and finishes.

PLUMBING

Steam and Condensate

This building is supplied with steam and condensate lines that provide heat to radiators and fan coil units. The steam heating system runs from October 15, through April 15, of each year. Steam heating system includes traps, expansion joints, steam reducing stations, and strainers that make up heating system. Condensate tanks are located on first floor mechanical room.

Sump Pumps

Building 121 sump pumps are located under building.

Plumbing Fixtures

Building 121 has restrooms, janitor sinks, and utility sinks. This building is provided with potable water from WSSC that enters the building from west-Side of building, at the same location is building flushing connection.

Janitor Sink

Building is equipped with janitorial sinks in various locations for cleaning crew employees.

Sprinkler System

Building has fire protection system provided by raw water service above drop ceiling. Fire line drops through drop ceiling with sprinkler heads that provides fire protection throughout building. Raw water for the sprinkler enters building from the east-side of building.

HEATING, VENTILATING, & AIR CONDITIONING

Cooling

This building is divided up into several zones each with its own dx cooling system.

Heating

Heating is accomplished through the use of steam radiators, steam coils in air handlers or heat pumps.

Ventilation

Bathroom and other local exhaust units are typical for this building.

ELECTRICAL

Electrical Service

Service to building # 121 is provided from the main substation feeder # H-MS-17 at 13800-volts through a 500 KVA transformer to 208Y/120-volts.

Interior Distribution

Distribution of electrical power is done through equipment and lighting panels at 208Y/120-volts.

Lighting and Power

Standard florescent fixtures that use T-8 type lamps provide lighting for the building. Lighting is120-volts. Power for lighting, receptacles and equipment is 208Y/120-volts. Most of the equipment is fed from equipment panels. Lighting and receptacles are fed from lighting panels.

Emergency and Exit Lighting

Emergency lighting is standard 2 light wall mounted 6-volt self-charging battery pack type. Exit lights are L.E.D. types, wall or ceiling mounted with 6-volt self-charging battery back up. All emergency lighting is 120 volts.

Fire Alarm

Fire alarm system consists of control panels with 24-volt D.C. battery back up, pull stations, smoke detectors, bells, sprinkler system and communicator/dialer to firehouse.

BUILDING 122

GENERAL

Primary Use Classification - explosive charge loading house

Floors – 1 above grade

Total Floor Square Footage - Approximately 180 SF

Historical Significance – Contributing

EXTERIOR SURFACES

Wood siding panels. Windows are wood frame with single pane glass. Door is wood.

INTERIOR SURFACES

Walls may be either wood sheathing or drywall.

PLUMBING

None

HEATING, VENTILATING, & AIR CONDITIONING

Cooling

None

Heating

There is no heating in this building.

Ventilation

A small exhaust fan serves this building.

ELECTRICAL

Electrical Service

Service to building # 122 is provided from transformer # T-30 at 208/120-volts.

Interior Distribution

Distribution of electrical power is done through lighting panel at 208Y/120-volts.

Lighting and Power

Explosion proof incandescent fixtures that use 100-watt type lamps provide lighting for the building. Lighting is120-volts. Power for lighting, receptacles and equipment is 120/208-volts. All of the equipment, lighting and receptacles are fed from lighting panels.

Emergency and Exit Lighting

Emergency lighting is standard 2 light wall mounted 6-volt self-charging battery pack type. All emergency lighting is 120 volts.

Fire Alarm

None

BUILDING 124

GENERAL

Primary Use Classification - storage

Floors – 1 above grade

Total Floor Square Footage - Approximately 480 SF

Historical Significance – Non-Contributing

EXTERIOR SURFACES

Walls are painted masonry block. Doors are either metal or wood. Hardware styles and finishes vary.

INTERIOR SURFACES

Walls are painted masonry block. Floors are concrete. Ceilings are painted drywall. Doors may be either wood or metal with various types of hardware and finishes.

PLUMBING

None

HEATING, VENTILATING, & AIR CONDITIONING

Cooling

This facility is cooled using window a/c.

Heating

Electric space heaters heat this building.

Ventilation

Window a/c provides the only ventilation here.

ELECTRICAL

Electrical Service

Service to building # 124 is provided from transformer # T-20 at 208/120-volts.

Interior Distribution

Distribution of electrical power is done through lighting panel at 208Y/120-volts.

Lighting and Power

Standard florescent fixtures that use T-8 type lamps provide lighting for the building. Lighting is120-volts. Power for lighting, receptacles and equipment is 120/208-volts. All of the equipment, lighting and receptacles are fed from lighting panels.

Emergency and Exit Lighting

Emergency lighting is standard 2 light wall mounted 6-volt self-charging battery pack type. All emergency lighting is 120 volts.

Fire Alarm

None

BUILDING 125

GENERAL

Primary Use Classification - research and development

Floors – 1 above grade

Total Floor Square Footage - Approximately 4,200 SF

Historical Significance – Non-Contributing

EXTERIOR SURFACES

Walls are foam coated metal. Windows are metal frames with single pane glass. Doors are either metal or wood.

INTERIOR SURFACES

Walls may be painted metal, painted drywall, or unfinished. Floors may be concrete, carpet, or vinyl tile. Ceilings may be painted metal, lay-in mineral fiber tile, glued-on mineral fiber tile, glued-on asbestos fiber tile, or plaster. Doors may be either wood or metal with various types of hardware and finishes.

PLUMBING

Steam and Condensate

None

Sump Pumps

sump pumps is located in the steam pit on north east corner of building.

Plumbing Fixtures

Building 125 has restrooms, janitor sinks, and utility sinks. This building is provided with potable water from WSSC that enters the building from south Side of building.

Emergency Eyewash/Emergency-Showers

Building 125 has emergency eyewash/emergency shower located throughout building.

Janitor Sink

Building is equipped with janitorial sinks in various locations for cleaning crew employees.

Natural Gas

Building has natural gas that enters building on the northeast corner of building. Gas is used in labs for oven burners, and furnaces.

HEATING, VENTILATING, & AIR CONDITIONING

Cooling

This lab facility is cooled using split system a/c units. Humidity is kept especially low in this building for test purposes.

Heating

Gas furnace and a gas fired duct heater heat this building.

Ventilation

This lab facility has a fresh-air air handler that provides conditioned outside air to this space due to testing done here. An auto relief damper helps with building pressurization. Bathroom and equipment exhaust fans are also present.

ELECTRICAL

Electrical Service

Service to building # 125 is provided from substation # 4A feeder # M-4A-1 at 2400-volts through a 112.5 KVA transformer to 120/208-volts.

Interior Distribution

Distribution of electrical power is done through lighting panel at 120/208-volts.

Lighting and Power

Standard florescent fixtures that use T-8 type lamps provide lighting for the building. Lighting is120-volts. Power for lighting, receptacles and equipment is 120/208-volts. All of the equipment, lighting and receptacles are fed from lighting panels.

Emergency and Exit Lighting

Emergency lighting is standard 2 light wall mounted 6-volt self-charging battery pack type. All emergency lighting is 120 volts.

Fire Alarm

None

BUILDING 126

GENERAL

Primary Use Classification - storage

Floors – 1 above grade

Total Floor Square Footage - Approximately 7,218 SF

Historical Significance – Non-Contributing

EXTERIOR SURFACES

Walls are foam coated metal. Windows are metal frames with single pane glass. Doors are either metal or wood.

INTERIOR SURFACES

Walls may be painted metal, painted drywall, or unfinished. Floors may be concrete, carpet, or vinyl tile. Ceilings may be painted metal, lay-in mineral fiber tile, glued-on mineral fiber tile, glued-on asbestos fiber tile, or plaster. Doors may be either wood or metal with various types of hardware and finishes.

PLUMBING

Steam and Condensate

None

Plumbing Fixtures

Building 126 has restrooms, janitor sinks, and utility sinks. This building is provided with potable water from WSSC that enters the building from south Side of building.

Emergency Eyewash/Emergency-Showers

Building 126 has emergency eyewash/emergency shower.

Janitor Sink

Building is equipped with janitorial sinks in various locations for cleaning crew employees.

Natural Gas

Building has natural gas that enters building on the northeast corner of building. Gas is used for furnaces heating system.

HEATING, VENTILATING, & AIR CONDITIONING

Cooling

Window units cool office spaces.

Heating

This facility is heated with a gas furnace.

Ventilation

A wall mounted building exhaust fan serves this facility. A typical bathroom fan is present.

ELECTRICAL

Electrical Service

Service to building # 126 is provided from substation # 4A feeder # M-4A-1 at 2400-volts through a 150 KVA transformer to 208Y/120-volts.

Interior Distribution

Distribution of electrical power is done through lighting panel at 208Y/120-volts.

Lighting and Power

Standard florescent fixtures that use T-8 type lamps provide lighting for the building. Lighting is120-volts. Power for lighting, receptacles and equipment is 208Y/120-volts. All of the equipment, lighting and receptacles are fed from lighting panels.

Emergency and Exit Lighting

Emergency lighting is standard 2 light wall mounted 6-volt self-charging battery pack type. All emergency lighting is 120 volts.

Fire Alarm

None

BUILDING 127

GENERAL

Primary Use Classification - storage/maintenance area

Floors – 1 above grade

Total Floor Square Footage - Approximately 4,200 SF

Historical Significance – Non-Contributing

EXTERIOR SURFACES

Walls are foam coated metal. Windows are metal frames with single pane glass. Doors are either metal or wood.

INTERIOR SURFACES

Walls may be painted metal, painted drywall, or unfinished. Floors may be concrete, carpet, or vinyl tile. Ceilings may be painted metal, lay-in mineral fiber tile, glued-on mineral fiber tile, glued-on asbestos fiber tile, or plaster. Doors may be either wood or metal with various types of hardware and finishes.

PLUMBING

Steam and Condensate

None

Plumbing Fixtures

This building is provided with potable water from WSSC that enters the building from south side of building.

Emergency Eyewash/Emergency-Showers

Building 127 has emergency eyewash/emergency shower located throughout building.

Janitor Sink

Building is equipped with janitorial sinks in various locations for cleaning crew employees.

HEATING, VENTILATING, & AIR CONDITIONING

Cooling

Window units cool office spaces.

Heating

Electric space heaters heat a few designated rooms.

Ventilation

Exhaust fans serve the shop areas.

ELECTRICAL

Electrical Service

Service to building # 127 is provided from building # 126 208Y/120-volts.

Interior Distribution

Distribution of electrical power is done through lighting panel at 208Y/120-volts.

Lighting and Power

Standard florescent fixtures that use T-8 type lamps provide lighting for the building. Lighting is120-volts. Power for lighting, receptacles and equipment is 208Y/120-volts. All of the equipment, lighting and receptacles are fed from lighting panels.

Emergency and Exit Lighting

Emergency lighting is standard 2 light wall mounted 6-volt self-charging battery pack type. All emergency lighting is 120 volts.

Fire Alarm

None

BUILDING 128

GENERAL

Primary Use Classification - maintenance shop

Floors – 1 above grade

Total Floor Square Footage - Approximately 6,870 SF

Historical Significance – Non-Contributing

EXTERIOR SURFACES

Walls are foam coated metal. Windows are metal frames with single pane glass. Doors are either metal or wood.

INTERIOR SURFACES

Walls may be painted metal, painted drywall, or unfinished. Floors may be concrete, carpet, or vinyl tile. Ceilings may be painted metal, lay-in mineral fiber tile, glued-on mineral fiber tile, glued-on asbestos fiber tile, or plaster. Doors may be either wood or metal with various types of hardware and finishes.

PLUMBING

Steam and Condensate

None

Plumbing Fixtures

Building 128 has restrooms, janitor sinks, and utility sinks. This building is provided with potable water from WSSC that enters the building from east-Side of building.

Emergency Eyewash/Emergency-Showers

Building 128 has emergency eyewash/emergency shower located throughout building.

Backflow Preventers

Backflow preventer for building 128 is located on the heating system make up water.

Janitor Sink

Building is equipped with janitorial sinks in various locations for cleaning crew employees.

Natural Gas

Building has natural gas that enters building on the south side of building. Gas is used for furnaces heating system.

HEATING, VENTILATING, & AIR CONDITIONING

Cooling

This building is divided into 2 zones: the Shop area and the office area. Direct expansion split system a/c units serve these spaces.

Heating

The Shop is heated with a gas furnace and a heat pump serves the office area.

Ventilation

Outside of the air brought in through air handlers, typical bathroom and shop exhausts are present.

ELECTRICAL

Electrical Service

Service to building # 128 is provided from substation # 4A feeder # M-4A-1 at 2400-volts through a 150 KVA transformer to 208Y/120-volts.

Interior Distribution

Distribution of electrical power is done through lighting panel at 208Y/120-volts.

Lighting and Power

Standard florescent fixtures that use T-8 type lamps provide lighting for the building. Lighting is120-volts. Power for lighting, receptacles and equipment is 208Y/120-volts. All of the equipment, lighting and receptacles are fed from lighting panels.

Emergency and Exit Lighting

Emergency lighting is standard 2 light wall mounted 6-volt self-charging battery pack type. All emergency lighting is 120 volts.

Fire Alarm

None

BUILDING 129

GENERAL

Primary Use Classification - maintenance shop

Floors – 1 above grade

Total Floor Square Footage - Approximately 6,370 SF

Historical Significance – Non-Contributing

EXTERIOR SURFACES

Walls are foam coated metal. Windows are metal frames with single pane glass. Doors are either metal or wood.

INTERIOR SURFACES

Walls may be painted metal, painted drywall, or unfinished. Floors may be concrete, carpet, or vinyl tile. Ceilings may be painted metal, lay-in mineral fiber tile, glued-on mineral fiber tile, glued-on asbestos fiber tile, or plaster. Doors may be either wood or metal with various types of hardware and finishes.

PLUMBING

Steam and Condensate

None

Plumbing Fixtures

Building 129 has restrooms, janitor sinks, and utility sinks. This building is provided with potable water from WSSC that enters the building from south-east corner of building.

Emergency Eyewash/Emergency-Showers

Building 129 has emergency eyewash/emergency shower.

Janitor Sink

Building is equipped with janitorial sinks in various locations for cleaning crew employees.

Natural Gas

Building has natural gas that enters building on the northeast corner of building. Gas is used for gas fired furnaces heating system.

HEATING, VENTILATING, & AIR CONDITIONING

Cooling

This building is cooled with dx a/c units and a few window units.

Heating

The occupied areas are heated with a gas furnaces or electric unit heaters.

Ventilation

Typical bathroom and shop exhausts are present.

ELECTRICAL

Electrical Service

Service to building # 129 is provided from transformer # T-49 at 208Y/120.

Interior Distribution

Distribution of electrical power is done through lighting panel at 208Y/120-volts.

Lighting and Power

Standard florescent fixtures that use T-8 type lamps provide lighting for the building. Lighting is120-volts. Power for lighting, receptacles and equipment is 208Y/120-volts. All of the equipment, lighting and receptacles are fed from lighting panels.

Emergency and Exit Lighting

Emergency lighting is standard 2 light wall mounted 6-volt self-charging battery pack type. All emergency lighting is 120 volts.

Fire Alarm

Fire alarm system consists of control panels with 24-volt D.C. battery back up, pull stations, smoke detectors, bells, and communicator/dialer to firehouse.

BUILDING 130

GENERAL

Primary Use Classification - storage

Floors – 1 above grade

Total Floor Square Footage - Approximately 2,225 SF

Historical Significance – Non-Contributing

EXTERIOR SURFACES

Walls are corrugated metal. Window style is metal frames with single pane glass. Doors are either metal. Hardware styles and finishes vary.

INTERIOR SURFACES

Walls are unfinished metal. Floor is concrete. Ceiling is unfinished.

PLUMBING

None

HEATING, VENTILATING, & AIR CONDITIONING

Cooling

There is no cooling in this building.

Heating

Electric space heaters heat this building.

Ventilation

A building exhaust fan is present.

ELECTRICAL

Electrical Service

Service to building # 130 is provided from building 4-tunnel at 120/208.

Interior Distribution

Distribution of electrical power is done through lighting panel at 120/208-volts.

Lighting and Power

Standard incandescent fixtures that use compact florescent type lamps provide lighting for the building. Lighting is120-volts. Power for lighting, receptacles and equipment is 120/208-volts. All of the equipment, lighting and receptacles are fed from lighting panels.

Emergency and Exit Lighting

Emergency lighting is standard 2 light wall mounted 6-volt self-charging battery pack type. All emergency lighting is 120 volts.

Fire Alarm

None

BUILDING 134

GENERAL

Primary Use Classification – explosives test pond

Floors – N/A

Total Floor Square Footage – N/A

Historical Significance – Contributing

EXTERIOR SURFACES

Walls are spray applied concrete. Underwater window style is significant using galvanized metal frames with thick insulated glass to withstand the pressures of explosive testing. Hardware styles and finishes vary.

INTERIOR SURFACES

N/A

PLUMBING

N/A

HEATING, VENTILATING, & AIR CONDITIONING

None

ELECTRICAL

N/A

BUILDING 136

GENERAL

Primary Use Classification – Survey Marker

Floors – N/A

Total Floor Square Footage – N/A

Historical Significance – Contributing

EXTERIOR SURFACES

Concrete post with embedded survey brass survey marker

INTERIOR SURFACES

N/A

PLUMBING

HEATING, VENTILATING, & AIR CONDITIONING

None

ELECTRICALN/A

BUILDING 137

GENERAL

Primary Use Classification - flag pole

Height – Approximately 50 feet

Total Floor Square Footage – N/A

Historical Significance – Contributing

EXTERIOR SURFACES

Standard military style with horizontal cross arms

INTERIOR SURFACES

N/A

PLUMBING

None

HEATING, VENTILATING, & AIR CONDITIONING

None

ELECTRICAL

None

BUILDING 139

GENERAL

Primary Use Classification - wind tunnel

Floors – N/A

Total Floor Square Footage – N/A

Historical Significance – Non-Contributing

EXTERIOR SURFACES

Walls are painted metal. Doors are metal Hardware styles and finishes vary.

INTERIOR SURFACES

Uncoated metal with high precision contours for directing airflow.

PLUMBING

N/A

HEATING, VENTILATING, & AIR CONDITIONING

None

ELECTRICAL

N/A

BUILDING 140

GENERAL

Primary Use Classification – wind tunnel cooling system

Floors – N/A

Total Floor Square Footage – N/A

Historical Significance – Contributing

EXTERIOR SURFACES

Pumping, piping and water spray devices for keeping exterior of metal wind tunnel cool for proper testing.

BUILDING 142

GENERAL

Primary Use Classification – fuel dispensing facility

Floors – N/A above ground storage tanks

Capacity – Diesel @ 1000 gallons, Gasoline @ 2000 gallons

Historical Significance – Non-Contributing

EXTERIOR SURFACES

Walls are double lined with painted pre-cast concrete manufactured by Convault.

PLUMBING

Self-serve fuel dispensing nozzles with separate fuel pumps

HEATING, VENTILATING, & AIR CONDITIONING

None

ELECTRICAL

Explosion-proof 110V circuit fed from Bldg 9

BUILDING 143

GENERAL

Primary Use Classification - storage

Floors – 1 above grade

Total Floor Square Footage - Approximately 16,950 SF

Historical Significance – Contributing

EXTERIOR SURFACES

Walls are painted metal. Window style is metal frame with single pane glass. Doors are either metal or wood and may be historically significant depending upon type and location. Hardware styles and finishes vary.

INTERIOR SURFACES

Walls may be painted metal, painted drywall, cork panels, manufactured cloth-covered panels,or unfinished. Floors may be concrete, carpet, asbestos tile, or vinyl tile. Ceilings may be lay-in mineral fiber tile, glued-on mineral fiber tile, glued-on asbestos fiber tile, or drywall. Doors may be either wood or metal with various types of hardware and finishes.

PLUMBING

Steam and Condensate

This building is supplied with steam and condensate lines that provide heat to radiators and fan coil units. The steam heating system runs from October 15, through April 15, of each year. Steam heating system includes traps, expansion joints, steam reducing stations, and strainers that make up heating system.

Plumbing Fixtures

Building 143 has restrooms, janitor sinks, and utility sinks. This building is provided with potable water from WSSC that enters the building from south Side of building.

Emergency Eyewash/Emergency-Showers

Building 143 has emergency eyewash/emergency shower.

Janitor Sink

Building is equipped with janitorial sinks in various locations for cleaning crew employees.

Sprinkler System

Building has fire protection system provided by raw water service above drop ceiling. Fire line drops through drop ceiling with sprinkler heads that provides fire protection throughout building. Raw water for the sprinkler enters building from the south side of building.

HEATING, VENTILATING, & AIR CONDITIONING

Cooling

Window units cool office spaces.

Heating

Heating is accomplished using steam space heaters throughout as well as window units.

Ventilation

Rooftop warehouse exhaust and bathroom exhaust units are present.

ELECTRICAL

Electrical Service

Service to building # 143 is provided from substation # 1 feeder # M-1-10 at 2400 volts through a 112.5 KVA transformer to 208Y/120-volts.

Interior Distribution

Distribution of electrical power is done through equipment, lighting and main distribution panel at 208Y/120-volts.

Lighting and Power

400-watt metal halide fixtures provide most of the lighting throughout the building. Office areas use standard 4-foot florescent fixtures with T-8 lamps. All lighting in building is 120-volts. Power for lighting, receptacles and equipment is varied from 208Y/120 and 480-volts. Most of the equipment is fed from equipment power panels. Lighting and receptacles are fed from lighting panels

Emergency and Exit Lighting

Emergency lighting is standard 2 light wall mounted 6-volt self-charging battery pack type. Exit lights are L.E.D. types, wall or ceiling mounted with 6-volt self-charging battery back up. All emergency lighting is 120 volts.

Fire Alarms

Fire alarm system consists of control panel with 24-volt D.C. battery back up, pull stations, smoke detectors, heat detectors, bells, sprinkler system and communicator/dialer to firehouse.

BUILDING 145

GENERAL

Primary Use Classification – Water tower (Not In Service)

Floors – N/A

Total Floor Square Footage – N/A

Historical Significance – Contributing

EXTERIOR SURFACES

Painted metal with various cellular telephone antenna present. Facility is only used as an antenna tower with usage leased to private cellular telephone companies.

INTERIOR SURFACES

Painted metal

PLUMBING

N/A

HEATING, VENTILATING, & AIR CONDITIONING

None

ELECTRICAL

Electric receptacle feed from panel inside Bldg 6.

BUILDING 148

GENERAL

Primary Use Classification - storage

Floors – 1 above grade

Total Floor Square Footage - Approximately 1,710 SF

Historical Significance – Non-Contributing

EXTERIOR SURFACES

Walls are metal panels on post and beam construction. No windows are present. Doors are overhead type.

INTERIOR SURFACES

No special interior finish

PLUMBING

None

HEATING, VENTILATING, & AIR CONDITIONING

None

ELECTRICAL

None

BUILDING 152

GENERAL

Primary Use Classification - Firehouse quarters

Floors – 1 above grade

Total Floor Square Footage - Approximately 900 SF

Historical Significance – Contributing

EXTERIOR SURFACES

Walls are asbestos shingles covered with metal siding. Windows are vinyl with insulated glass. Doors are wood. Hardware styles and finishes vary.

INTERIOR SURFACES

Walls may be painted drywall, painted plaster, Floors may be concrete, carpet, asbestos tile, or vinyl tile. Ceilings may be painted lay-in mineral fiber tile, glued-on mineral fiber tile, glued-on asbestos fiber tile, or plaster. Doors are wood.

PLUMBING

Steam and Condensate

This building has gas fired furnace that provides heat to radiators and fan coil units. The heating system runs from October 15, through April 15, of each year.

Plumbing Fixtures

Building 152 has restrooms, janitor sinks, and utility sinks. This building is provided with potable water from WSSC that enters the building from south Side of building.

Emergency Eyewash/Emergency-Showers

Building 152 has emergency eyewash/emergency shower located throughout building.

Janitor Sink

Building is equipped with janitorial sinks in various locations for cleaning crew employees.

Natural Gas

Building has natural gas that enters building on the northeast corner of building. Gas is used for oven burners, and furnaces.

HEATING, VENTILATING, & AIR CONDITIONING

Cooling

This building is cooled using a split system a/c unit.

Heating

This building is heated with a gas furnace.

Ventilation

Fresh air is introduced using an energy recovery ventilator. A bathroom exhaust fan is present.

ELECTRICAL

Electrical Service

Service to building # 152 is provided from transformers # T-19 at 240/120-volts.

Interior Distribution

Distribution of electrical power is done through lighting and equipment panels.

Lighting and Power

Lighting is florescent 4-foot T-8 type and plug in table lamps with compact florescent bulbs. All lighting in building is 120 volts. Power for lighting, receptacles and equipment is varied from 120/208, and 480 volts. Most of the equipment, lighting and receptacles are fed from lighting panels

Emergency and Exit Lighting

Emergency lighting is standard 2 light wall mounted 6-volt self-charging battery pack type. Exit lights are L.E.D. types, wall or ceiling mounted with 6-volt self-charging battery back up. All emergency lighting is 120 volts.

Fire Alarm

Fire alarm system consists of control panel with 24-volt D.C. battery back up, pull stations, smoke detectors, heat detectors, bells, and communicator/dialer to firehouse.

BUILDING 155

GENERAL

Primary Use Classification – SENTRY HOUSE GATE # 3

Floors – 1 above grade

Total Floor Square Footage - Approximately 42 SF

Historical Significance – Non-Contributing

EXTERIOR SURFACES

Walls are painted metal. Windows are metal with single pane glass. Doors are metal.

INTERIOR SURFACES

Walls are painted metal. Flooring may be carpet, or vinyl tile. Ceilings are painted metal, or lay-in mineral fiber tile.

PLUMBING

N/A

HEATING, VENTILATING, & AIR CONDITIONING

Cooling

A window unit cools this guard shack.

Heating

A window unit heats this guard shack.

Ventilation

A window unit provides the only forced ventilation.

ELECTRICAL

Electrical service is supplied from a power pole drop from outside the main security fence.

BUILDING 156

GENERAL

Primary Use Classification - INSTRUMENT HOUSE TEST POND.

Floors – 1 above grade

Total Floor Square Footage - Approximately 390 SF

Historical Significance – Non-Contributing

EXTERIOR SURFACES

Walls are painted metal. Windows are bronze anodized aluminum with insulated glass. Doors are metal. Hardware styles and finishes vary.

INTERIOR SURFACES

Walls may be painted drywall, or unfinished. Floors may be concrete, carpet, or vinyl tile. Ceilings may be lay-in mineral fiber tile, or unfinished. There are no interior doors.

PLUMBING

None

HEATING, VENTILATING, & AIR CONDITIONING

Cooling

This building is cooled using a split system heat pump.

Heating

A split system heat pump serves this building.

Ventilation

Outside fresh air is introduced through the heat pump.

ELECTRICAL

Electrical Service

Service to building # 156 is provided from transformer # 30 at 208Y/120-volts.

Interior Distribution

Distribution of electrical power is done through equipment and lighting panels.

Lighting and Power

Standard florescent fixtures that use 4-foot T-8 type lamps provide lighting throughout the building. Power for lighting, receptacles and equipment is 208Y/120-volts. Most of the equipment is fed from equipment power panel. Lighting and receptacles are fed from lighting panel.

Emergency and Exit Lighting

Emergency lighting is standard 2 light wall mounted 6-volt self-charging battery pack type. Exit lights are L.E.D. types, wall or ceiling mounted with 6-volt self-charging battery back up. All emergency lighting is 120 volts.

Fire Alarm

None

BUILDING 157

GENERAL

Primary Use Classification - research and development

Floors – 1above grade, 1 below grade

Total Floor Square Footage - Approximately 40,000 SF

Historical Significance – Non-Contributing

EXTERIOR SURFACES

Walls are painted concrete. There are no windows. Doors are metal. Facility is a converted wind tunnel now used for research spaces. Hardware styles and finishes vary.

INTERIOR SURFACES

Walls may be painted concrete, painted masonry block, painted drywall, manufactured cloth-covered panels, or unfinished. Floors may be concrete, carpet, or vinyl tile. Ceilings may be painted concrete or lay-in mineral fiber tile. Doors may be either wood or metal with various types of hardware and finishes.

PLUMBING

Steam and Condensate

None

Sump Pumps

Building 157 sump pumps is located on north east corner of building.

Plumbing Fixtures

Building 157 has restrooms, janitor sinks, and utility sinks. This building is provided with potable water from WSSC that enters the building from south Side of building.

Emergency Eyewash/Emergency-Showers

Building 157 has emergency eyewash/emergency shower located throughout building.

Backflow Preventers

Backflow preventer for building 157 are located on fire sprinkler system, chilled water system, and lab sink.

Janitor Sink

Building is equipped with janitorial sinks in various locations for cleaning crew employees.

Sprinkler System

Building has fire protection system provided by raw water service above drop ceiling. Fire line drops through drop ceiling with sprinkler heads that provides fire protection throughout building. Raw water for the sprinkler enters building from the north side of building.

HEATING, VENTILATING, & AIR CONDITIONING

Cooling

This building is cooled using split system heat pumps. A water chiller serves lab process cooling.

Heating

Split system heat pumps serve this building.

Ventilation

Outside of the fresh air introduced through the heat pumps lab and bathroom exhausts are present

ELECTRICAL

Electrical Service

Service to building # 157 is provided from building # 12 at 480-volts and building # 182 at 480 and 208Y/120-volts.

Interior Distribution

Distribution of electrical power is done through equipment and lighting panels at 480 and 208Y/120-volts.

Lighting and Power

Some of the lighting throughout the building is provided by standard florescent fixtures that use 4-foot T-8 type lamps, some areas use 400-watt metal halide. All lighting is 120 or 208-volts. Power for lighting, receptacles and equipment is varied from 120/208, and 480 volts. Most of the equipment is fed from equipment power panels. Lighting and receptacles are fed from lighting panels.

Emergency and Exit Lighting

Emergency lighting is standard 2 light wall mounted 6-volt self-charging battery pack type. Exit lights are L.E.D. types, wall or ceiling mounted with 6-volt self-charging battery back up. All emergency lighting is 120 volts.

Fire Alarm

None

BUILDING 159

GENERAL

Primary Use Classification – Bottle gas fuel storage.

Floors – 1 above grade

Total Floor Square Footage - Approximately 600 SF

Historical Significance – Contributing

EXTERIOR SURFACES

Walls and roof are metal. Doors are metal. Hardware styles and finishes vary.

INTERIOR SURFACES

Walls and ceiling are unfinished metal.

PLUMBING

None

HEATING, VENTILATING, & AIR CONDITIONING

None

ELECTRICAL

.None

BUILDING 178

GENERAL

Primary Use Classification – SENTRY HOUSE

Floors – 1 above grade

Total Floor Square Footage - Approximately 48 SF

Historical Significance – Non-Contributing

EXTERIOR SURFACES

Walls are painted metal. Windows are metal with single pane glass. Doors are metal.

INTERIOR SURFACES

Walls are painted metal. Flooring may be carpet, or vinyl tile. Ceilings are painted metal, or lay-in mineral fiber tile.

PLUMBING

None

HEATING, VENTILATING, & AIR CONDITIONING

Cooling

A window unit cools this guard shack.

Heating

A window unit heats this guard shack.

Ventilation

A window unit provides the only forced ventilation.

ELECTRICAL

Electrical service is 100 amp, 208/120 volts supplied from Building 20.

BUILDING 181

GENERAL

Primary Use Classification - Machine Shop

Floors – 1 above grade

Total Floor Square Footage - Approximately 491 SF

Historical Significance – Non-Contributing

EXTERIOR SURFACES

Walls are metal. Windows are metal with single pane glass. Doors are metal.

INTERIOR SURFACES

Walls are insulation panels. Floors are concrete. Ceilings are insulated panels.

PLUMBING

None

HEATING, VENTILATING, & AIR CONDITIONING

Cooling

A window unit cools this shop area.

Heating

Electric space heaters serve this building.

Ventilation

Standard exhaust fans ventilate this small shop area.

ELECTRICAL

Electrical Service

Service to building # 181 is provided from Transformer # T-29 at 208Y/120-volts.

Interior Distribution

Distribution of electrical power is done through lighting panel at 230 208Y/120-volts.

Lighting and Power

Standard florescent fixtures that use 4-foot T-8 type lamps provide all of the lighting throughout the building. All lighting is 120-volts. Power for lighting, receptacles and equipment is 208Y/120-volts. Equipment, lighting and receptacles are fed from lighting panels.

Emergency and Exit Lighting

Emergency lighting is standard 2 light wall mounted 6-volt self-charging battery pack type.

Fire Alarm

None

BUILDING 182

GENERAL

Primary Use Classification – Instrumentation house

Floors – 1 above grade

Total Floor Square Footage - Approximately 312 SF

Historical Significance – Non-Contributing

EXTERIOR SURFACES

Walls are painted concrete. Windows are metal frames with single pane glass. Doors are metal. Hardware styles and finishes vary.

INTERIOR SURFACES

Walls may be painted concrete or unfinished. Floors are concrete. Ceilings may be painted concrete or unfinished.

PLUMBING

None

HEATING, VENTILATING, & AIR CONDITIONING

Cooling

There is no cooling in this building.

Heating

Electric space heaters serve this building.

Ventilation

A typical roof exhaust fan ventilates this space.

ELECTRICAL

Electrical Service

Service to building # 182 is provided from main substation feeder # H-MS-6 at 13800-volts through transformer # T-34 to 2400-volts.

Interior Distribution

Distribution of electrical power is done through switchboard and lighting panel at 208Y/120-volts.

Lighting and Power

Standard florescent fixtures that use 4-foot T-8 type lamps provide all of the lighting throughout the building. All lighting is 120-volts. Power for lighting, receptacles and equipment is 208Y/120-volts. Equipment is fed from switchboard. Lighting and receptacles are fed from lighting panels.

Emergency and Exit Lighting

Emergency lighting is standard 2 light wall mounted 6-volt self-charging battery pack type.

Fire Alarm

There is no fire alarm system in this building.

BUILDING 183

GENERAL

Primary Use Classification – Instrumentation house

Floors – 1 above grade

Total Floor Square Footage - Approximately 260 SF

Historical Significance – Non-Contributing

EXTERIOR SURFACES

Walls are painted concrete. There are no windows. Doors are metal. Building contains hydraulic testing pumps and other mechanical equipment.

INTERIOR SURFACES

Walls are painted concrete or unfinished. Floor is concrete. Ceiling is concrete.

PLUMBING

No fixtures or potable water present.

HEATING, VENTILATING, & AIR CONDITIONING

Cooling

There is no cooling in this building.

Heating

An electric space heater serves this building.

Ventilation

A typical roof exhaust fan ventilates this space.

ELECTRICAL

Electrical Service

Service to building # 183 is provided from building # 19 at 480 and 208Y/120-volts.

Interior Distribution

Distribution of electrical power is done through switchboard and lighting panel at 480 and 208Y/120-volts.

Lighting and Power

Standard florescent fixtures that use 4-foot T-8 type lamps provide all of the lighting throughout the building. All lighting is 120-volts. Power for lighting, receptacles and equipment is 480 and 208Y/120-volts. Equipment is fed from switchboard. Lighting and receptacles are fed from lighting panels.

Emergency and Exit Lighting

None

Fire Alarm

None

BUILDING 184

GENERAL

David Taylor Monument

Historical Significance – Contributing

EXTERIOR SURFACES

Granite polished stone with inlaid brass plaque .

INTERIOR SURFACES

None

PLUMBING

None

HEATING, VENTILATING, & AIR CONDITIONING

None

ELECTRICAL

None

BUILDING 185

GENERAL

Model Basin Monument

Historical Significance – Contributing

EXTERIOR SURFACES

N/A

INTERIOR SURFACES

None

PLUMBING

None

HEATING, VENTILATING, & AIR CONDITIONING

None

ELECTRICAL

None

BUILDING 187

GENERAL

Primary Use Classification - research and development

Floors – 1 above grade, 1 below grade

Total Floor Square Footage - Approximately 90 SF

Historical Significance – Contributing

EXTERIOR SURFACES

Walls are painted concrete. Windows are metal frames with single pane glass. Doors are either metal or wood. Hardware styles and finishes vary.

INTERIOR SURFACES

Walls are painted concrete or unfinished. First floor is metal grating. Basement level is concrete. Ceiling is concrete.

PLUMBING

None

HEATING, VENTILATING, & AIR CONDITIONING

Cooling

There is no cooling in this building.

Heating

An electric space heater serves this building.

Ventilation

There is no ventilation for this building.

ELECTRICAL

Electrical Service

Service to building # 187 is provided from substation # 12 feeder # M-12-6 at 2400-volts through a 300 KVA transformer to 480-volts.

Interior Distribution

Distribution of electrical power is done through motor control center and lighting panel at 480 and 208Y/120-volts.

Lighting and Power

Standard incandescent fixtures that use 150-watt type lamps provide all of the lighting throughout the building. All lighting is 120-volts. Power for lighting, receptacles and equipment is 480 and 208Y/120-volts. Equipment is fed from motor control center. Lighting and receptacles are fed from lighting panel.

Emergency and Exit Lighting

None

Fire Alarm

None

BUILDING 188

GENERAL

Primary Use Classification – Equipment house at building # 21.

Floors – 1 above grade, 1 below grade

Total Floor Square Footage - Approximately 340 SF

Historical Significance – Non-Contributing

EXTERIOR SURFACES

Walls are painted concrete. Windows are metal frame with single pane glass.

INTERIOR SURFACES

Walls are painted concrete. Floor and ceiling are concrete.

PLUMBING

None

HEATING, VENTILATING, & AIR CONDITIONING

Cooling

None

Heating

An electric space heater serves this building.

Ventilation

An exhaust fan ventilates this space.

ELECTRICAL

Electrical Service

Service to building # 188 is provided from transformer # 89 at 480Y/277-volts.

Interior Distribution

Distribution of electrical power is done through switchboard and lighting panel at 480 and 208Y/120-volts.

Lighting and Power

Standard incandescent fixtures that use 150-watt type lamps provide all of the lighting throughout the building. All lighting is 120-volts. Power for lighting, receptacles and equipment is 480 and 208Y/120-volts. Equipment is fed from switchboard. Lighting and receptacles are fed from lighting panel.

Emergency and Exit Lighting

None

Fire Alarm

None

BUILDING 189

GENERAL

Primary Use Classification - Wind tunnel

Floors – 1 above grade

Total Floor Square Footage - NA

Historical Significance – Contributing

EXTERIOR SURFACES

Walls are painted concrete.

INTERIOR SURFACES

Walls are sheet steel.

PLUMBING

N/A

HEATING, VENTILATING, & AIR CONDITIONING

Cooling

None

Heating

Electric heat in the mechanical room.

Ventilation

None

ELECTRICAL

Electrical Service

Service to building # 189 is provided from substation # 4 feeder # H-4-2 at 13800-volts through a 2000 KVA transformer to 2400 volts.

Interior Distribution

Distribution of electrical power is done through switchboard and lighting panel at 2400 and 208Y/120-volts.

Lighting and Power

Standard incandescent fixtures that use 150-watt type lamps provide all of the lighting throughout the building. All lighting is 120-volts. Power for lighting, receptacles and equipment is 480 and 208Y/120-volts. Equipment is fed from switchboard. Lighting and receptacles are fed from lighting panel.

Emergency and Exit Lighting

None

Fire Alarm

None

BUILDING 191

GENERAL

Primary Use Classification - research and development

Floors – 1 above grade

Total Floor Square Footage - Approximately 9,600 SF

Historical Significance – Non-Contributing

EXTERIOR SURFACES

Walls are metal. Windows are aluminum with insulated glass. Doors are metal. Hardware styles and finishes vary.

INTERIOR SURFACES

Walls may be painted drywall, painted wallpaper, manufactured cloth-covered panels,or unfinished. Floors may be concrete, carpet, asbestos tile, raised computer flooring tile, or vinyl tile. Ceilings may be lay-in mineral fiber tile, painted drywall, or unfinished. Doors may be either wood or metal with various types of hardware and finishes. Many surfaces are considered historically significant

PLUMBING

Steam and Condensate

None

Plumbing Fixtures

Building 191 has restrooms, janitor sinks, and utility sinks. This building is provided with potable water from WSSC that enters the building from north Side of building.

Backflow Preventers

Backflow preventer for building 191 are located in mechanical room on heating and chill water system.

Janitor Sink

Building is equipped with janitorial sinks in various locations for cleaning crew employees.

Sprinkler System

Building has fire protection system provided by raw water service above drop ceiling. Fire line drops through drop ceiling with sprinkler heads that provides fire protection throughout building. Raw water for the sprinkler enters building from the south side of building.

HEATING, VENTILATING, & AIR CONDITIONING

Cooling

A chiller and air handlers serve the cooling requirement in this building. Small packaged a/c and a split system handle hot spots and a specialty area.

Heating

Electric baseboard heat and an electric heater in one of the air handlers heat this building.

Ventilation

Outside of the air brought in through air handlers, typical bathroom exhausts are present.

ELECTRICAL

Electrical Service

Service to building # 191 is provided from main substation feeder # H-MS-8 and H-MS-16 at 13800-volts through a 2000 KVA transformer to 480Y/277-volts.

Interior Distribution

Distribution of electrical power is done through equipment and lighting panel at 480Y/277 and 208Y/120-volts.

Lighting and Power

Standard florescent fixtures that use T-8 type lamps provide all of the lighting throughout the building. All lighting is 120-volts. Power for lighting, receptacles and equipment is 480 and 208Y/120-volts. Equipment is fed from equipment panels. Lighting and receptacles are fed from lighting panels.

Emergency and Exit Lighting

Emergency lighting is standard 2 light wall mounted 6-volt self-charging battery pack type. Exit lights are L.E.D. types, wall or ceiling mounted with 6-volt self-charging battery back up. All emergency lighting is 120 volts.

Fire Alarm

Fire alarm system consists of control panel with 24-volt D.C. battery back up, pull stations, bells, and communicator/dialer to firehouse.

BUILDING 192

GENERAL

Primary Use Classification - research and development

Floors – 1 above grade

Total Floor Square Footage - Approximately 9,600 SF

Historical Significance – Non-Contributing

EXTERIOR SURFACES

Walls are metal. Windows are aluminum with insulated glass. Doors are metal. Hardware styles and finishes vary.

INTERIOR SURFACES

Walls may be painted drywall, painted wallpaper, manufactured cloth-covered panels,or unfinished. Floors may be concrete, carpet, asbestos tile, raised computer flooring tile, or vinyl tile. Ceilings may be lay-in mineral fiber tile, painted drywall, or unfinished. Doors may be either wood or metal with various types of hardware and finishes. Many surfaces are considered historically significant

PLUMBING

Steam and Condensate

None

Plumbing Fixtures

Building 192 has restrooms, janitor sinks, and utility sinks. This building is provided with potable water from WSSC that enters the building from north Side of building.

Backflow Preventers

Backflow preventer for building 192 are located on the chill water system.

Janitor Sink

Building is equipped with janitorial sinks in various locations for cleaning crew employees.

Sprinkler System

Building has fire protection system provided by raw water service above drop ceiling. Fire line drops through drop ceiling with sprinkler heads that provides fire protection throughout building. Raw water for the sprinkler enters building from the north side of building.

HEATING, VENTILATING, & AIR CONDITIONING

Cooling

A chiller and air handlers serve the cooling requirement in this building. A small split system handles a computer area.

Heating

Electric baseboard heat and an electric heater in one of the air handlers heat this building.

Ventilation

Outside of the air brought in through air handlers, typical bathroom exhausts are present.

ELECTRICAL

Electrical Service

Service to building # 192 is provided from main substation feeder # H-MS-8 and H-MS-16 at 13800-volts through a 2000 KVA transformer to 480Y/277-volts.

Interior Distribution

Distribution of electrical power is done through equipment and lighting panel at 480Y/277 and 208Y/120-volts.

Lighting and Power

Standard florescent fixtures that use T-8 type lamps provide all of the lighting throughout the building. All lighting is 120-volts. Power for lighting, receptacles and equipment is 480 and 208Y/120-volts. Equipment is fed from equipment panels. Lighting and receptacles are fed from lighting panels.

Emergency and Exit Lighting

Emergency lighting is standard 2 light wall mounted 6-volt self-charging battery pack type. Exit lights are L.E.D. types, wall or ceiling mounted with 6-volt self-charging battery back up. All emergency lighting is 120 volts.

Fire Alarm

None

BUILDING 193

GENERAL

Primary Use Classification - research and development

Floors – 1 above grade

Total Floor Square Footage - Approximately 8,080 SF

Historical Significance – Non-Contributing

EXTERIOR SURFACES

Walls are metal. Windows are aluminum with insulated glass. Doors are metal. Hardware styles and finishes vary.

INTERIOR SURFACES

Walls may be painted drywall, painted wallpaper, manufactured cloth-covered panels,or unfinished. Floors may be concrete, carpet, asbestos tile, raised computer flooring tile, or vinyl tile. Ceilings may be lay-in mineral fiber tile, painted drywall, or unfinished. Doors may be either wood or metal with various types of hardware and finishes. Many surfaces are considered historically significant

PLUMBING

Steam and Condensate

None

Plumbing Fixtures

Building 193 has restrooms, janitor sinks, and utility sinks. This building is provided with potable water from WSSC that enters the building from north Side of building.

Backflow Preventers

Backflow preventer for building 193 have been removed.

Janitor Sink

Building is equipped with janitorial sinks in various locations for cleaning crew employees.

Sprinkler System

Building has fire protection system provided by raw water service above drop ceiling. Fire line drops through drop ceiling with sprinkler heads that provides fire protection throughout building. Raw water for the sprinkler enters building from the north side of building.

HEATING, VENTILATING, & AIR CONDITIONING

Cooling

Packaged a/c units cool this entire building.

Heating

These same packaged a/c units provide electric heat for this building as well.

Ventilation

Outside of the air brought in through the packaged units, typical bathroom exhausts are present.

ELECTRICAL

Electrical Service

Service to building # 193 is provided from substation # 1 feeders # H-MS-8 and H-MS-16 at 13800-volts through two 500 KVA transformers to 208Y/120-volts.

Interior Distribution

Distribution of electrical power is done through equipment and lighting panel at 208Y/120-volts.

Lighting and Power

Standard florescent fixtures that use T-8 type lamps provide all of the lighting throughout the building. All lighting is 120-volts. Power for lighting, receptacles and equipment is 480 and 208Y/120-volts. Equipment is fed from equipment panels. Lighting and receptacles are fed from lighting panels.

Emergency and Exit Lighting

Emergency lighting is standard 2 light wall mounted 6-volt self-charging battery pack type. Exit lights are L.E.D. types, wall or ceiling mounted with 6-volt self-charging battery back up. All emergency lighting is 120 volts.

Fire Alarm

Fire alarm system consists of control panel with 24-volt D.C. battery back up, pull stations, smoke detectors, heat detectors, sprinkler system, co2 system bells, and communicator/dialer to firehouse.

BUILDING 196

GENERAL

Primary Use Classification - research and development

Floors – 1 above grade

Total Floor Square Footage - Approximately 456 SF

Historical Significance – Non-Contributing

EXTERIOR SURFACES

Walls and roof are metal. Doors are metal.

INTERIOR SURFACES

Walls and ceiling are painted metal. Floor is concrete.

PLUMBING

One yard hydrant inside the building.

HEATING, VENTILATING, & AIR CONDITIONING

None

ELECTRICAL

Electrical Service

Service to building # 196 is provided from building # 187 at 440-volts.

Interior Distribution

Distribution of electrical power is done through lighting panel at 208Y/120-volts.

Lighting and Power

200-watt H.I.D. fixtures with high pressure sodium type lamps provide all of the lighting throughout the building. All lighting is 120-volts. Power for lighting, receptacles and equipment is 208Y/120-volts. Equipment, lighting and receptacles are fed from lighting panels.

Emergency and Exit Lighting

None

Fire Alarm

None

BUILDING 198

GENERAL

Primary Use Classification – Equipment building

Floors – 1 above grade

Total Floor Square Footage - Approximately 333 SF

Historical Significance – Non-Contributing

EXTERIOR SURFACES

Wood siding. Windows are wood frame with single pane glass. Floor is wood.

INTERIOR SURFACES

Unfinished

PLUMBING

None

HEATING, VENTILATING, & AIR CONDITIONING

None

ELECTRICAL

Electrical Service

Service to building # 198 is provided from building # 106 at 208/Y120-volts

Interior Distribution

Distribution of electrical power is done through lighting panel at 208Y/120-volts.

Lighting and Power

Standard florescent fixtures that use T-8 type lamps provide all of the lighting throughout the building. All lighting is 120-volts. Power for lighting, receptacles and equipment is 208Y/120-volts. Equipment, lighting and receptacles are fed from lighting panels.

Emergency and Exit Lighting

Emergency lighting is standard 2 light wall mounted 6-volt self-charging battery pack type.

Fire Alarm

None

BUILDING 199

GENERAL

Primary Use Classification - Bottled gas storage

Floors – 1 above grade

Total Floor Square Footage - Approximately 732 SF

Historical Significance – Non-Contributing

EXTERIOR SURFACES

Walls are metal.

INTERIOR SURFACES

Walls are metal.

PLUMBING

None

HEATING, VENTILATING, & AIR CONDITIONING

None

ELECTRICAL

None

BUILDING 200

GENERAL

Primary Use Classification - research and development

Floors – Concrete Pad supporting metal bending rolls.

Total Floor Square Footage - Approximately 100 SF

Historical Significance – Non-Contributing

EXTERIOR SURFACES

None

INTERIOR SURFACES

None

PLUMBING

None

HEATING, VENTILATING, & AIR CONDITIONING

None

ELECTRICAL

None

BUILDING 201

GENERAL

Primary Use Classification - research and development

Floors – 1 above grade,

Total Floor Square Footage - Approximately 1250 SF

Historical Significance – Non-Contributing

EXTERIOR SURFACES

Walls are metal. Windows are aluminum with insulated glass. Doors are metal.

INTERIOR SURFACES

Walls are insulated metal. Ceiling is insulated metal.

PLUMBING

Water and floor drains

HEATING, VENTILATING, & AIR CONDITIONING

Cooling

This building is cooled using a split system heat pump.

Heating

A split system heat pump serves this building.

Ventilation

There is no forced fresh air to this building.

ELECTRICAL

Source of supply is from Building 19 outside switchgear.

COMPLEX L

GENERAL

Primary Use Classification - administrative

Floors – 1 above grade

Total Floor Square Footage - Approximately 2520 SF

Historical Significance – Non-Contributing

EXTERIOR SURFACES

Walls are synthetic stucco/aggregate finish over plywood substrate. Windows are bronze anodized aluminum frames with insulated glass. Doors are anodized bronze frames with glass panels or metal.

INTERIOR SURFACES

Walls may be drywall prefinished with wallpaper, painted drywall, or plastic panels.or unfinished. Floors may be carpet or vinyl tile. Ceilings may be lay-in mineral fiber tile or unfinished. Doors may be either wood or metal with various types of hardware and finishes.

PLUMBING

This building is equipped with electric heating and cooling system.

Plumbing Fixtures

Building L has restrooms, janitor sinks, and utility sinks. This building is provided with potable water from WSSC that enters the building from north Side of building.

Janitor Sink

Building is equipped with janitorial sinks in various locations for cleaning crew employees.

Sprinkler System

Building has fire protection system provided by raw water service above drop ceiling. Fire line drops through drop ceiling with sprinkler heads that provides fire protection throughout building. Raw water for the sprinkler enters building from the north side of building.

HEATING, VENTILATING, & AIR CONDITIONING Cooling

Packaged heat pumps cool this entire building.

Heating

These same packaged heat pumps provide the heat for this building as well.

Ventilation

Outside of the air brought in through the heat pumps, typical bathroom and local exhausts are present.

ELECTRICAL

Electrical Service

Service to building # L is provided from main substation feeder # H-MS-16 at 13800-volts through a 500 KVA transformer to 208Y/120.

Interior Distribution

Distribution of electrical power is done through lighting panel at 208Y/120-volts.

Lighting and Power

Standard florescent fixtures that use T-8 type lamps provide all of the lighting throughout the building. All lighting is 120-volts. Power for lighting, receptacles and equipment is 208Y/120-volts. Equipment, lighting and receptacles are fed from lighting panels.

Emergency and Exit Lighting

Emergency lighting is standard 2 light wall mounted 6-volt self-charging battery pack type. Exit lights are L.E.D. types, wall or ceiling mounted with 6-volt self-charging battery back up. All emergency lighting is 120 volts.

Fire Alarm

Fire alarm system consists of control panel with 24-volt D.C. battery back up, pull stations, smoke detectors, heat detectors, bells, and communicator/dialer to firehouse.

COMPLEX M

GENERAL

Primary Use Classification - research and development

Floors – 1 above grade,

Total Floor Square Footage - Approximately 5,040 SF

Historical Significance – Non-Contributing

EXTERIOR SURFACES

Walls are synthetic stucco/aggregate finish over plywood substrate. Windows are bronze anodized aluminum frames with insulated glass. Doors are anodized bronze frames with glass panels or metal.

INTERIOR SURFACES

Walls may be drywall prefinished with wallpaper, painted drywall, or plastic panels.or unfinished. Floors may be carpet or vinyl tile. Ceilings may be lay-in mineral fiber tile or unfinished. Doors may be either wood or metal with various types of hardware and finishes.

PLUMBING

Steam and Condensate

None

Plumbing Fixtures

Building M has restrooms, janitor sinks, and utility sinks. This building is provided with potable water from WSSC that enters the building from north Side of building.

Janitor Sink

Building is equipped with janitorial sinks in various locations for cleaning crew employees.

Sprinkler System

None

HEATING, VENTILATING, & AIR CONDITIONING

Cooling

Packaged heat pumps cool this entire building.

Heating

These same packaged heat pumps provide the heat for this building as well.

Ventilation

Outside of the air brought in through the heat pumps, typical bathroom and local exhausts are present.

ELECTRICAL

Electrical Service

Service to building # M is provided from transformer # 18 at 208Y/120-volts.

Interior Distribution

Distribution of electrical power is done through lighting panel at 208Y/120-volts.

Lighting and Power

Standard florescent fixtures that use T-8 type lamps provide all of the lighting throughout the building. All lighting is 120-volts. Power for lighting, receptacles and equipment is 208Y/120-volts. Equipment, lighting and receptacles are fed from lighting panels.

Emergency and Exit Lighting

Emergency lighting is standard 2 light wall mounted 6-volt self-charging battery pack type. Exit lights are L.E.D. types, wall or ceiling mounted with 6-volt self-charging battery back up. All emergency lighting is 120 volts.

Fire Alarm

Fire alarm system consists of control panel with 24-volt D.C. battery back up, pull stations, smoke detectors, heat detectors, bells, and communicator/dialer to firehouse.

COMPLEX N

GENERAL

Primary Use Classification - research and development

Floors – 1 above grade,

Total Floor Square Footage - Approximately 10,000 SF

Historical Significance – Non-Contributing

EXTERIOR SURFACES

Walls are synthetic stucco/aggregate finish over plywood substrate. Windows are bronze anodized aluminum frames with insulated glass. Doors are anodized bronze frames with glass panels or metal.

INTERIOR SURFACES

Walls may be drywall prefinished with wallpaper, painted drywall, or plastic panels.or unfinished. Floors may be carpet or vinyl tile. Ceilings may be lay-in mineral fiber tile or unfinished. Doors may be either wood or metal with various types of hardware and finishes.

PLUMBING

Steam and Condensate

None

Plumbing Fixtures

Building M has restrooms, janitor sinks, and utility sinks. This building is provided with potable water from WSSC that enters the building from north Side of building.

Janitor Sink

Building is equipped with janitorial sinks located in hallway of building, for cleaning crew employees.

Sprinkler System

None

HEATING, VENTILATING, & AIR CONDITIONING

Cooling

Packaged heat pumps cool this entire building.

Heating

These same packaged heat pumps provide the heat for this building as well.

Ventilation

Outside of the air brought in through the heat pumps, typical bathroom and local exhausts are present.

ELECTRICAL

Electrical Service

Service to building # N is provided from substation # 2 feeder # H-2-7 at 13800-volts through a 300 KVA transformer to 208Y/120-volts.

Interior Distribution

Distribution of electrical power is done through lighting panel at 208Y/120-volts.

Lighting and Power

Standard florescent fixtures that use T-8 type lamps provide all of the lighting throughout the building. All lighting is 120-volts. Power for lighting, receptacles and equipment is 208Y/120-volts. Equipment, lighting and receptacles are fed from lighting panels.

Emergency and Exit Lighting

Emergency lighting is standard 2 light wall mounted 6-volt self-charging battery pack type. Exit lights are L.E.D. types, wall or ceiling mounted with 6-volt self-charging battery back up. All emergency lighting is 120 volts.

Fire Alarm

Fire alarm system consists of control panel with 24-volt D.C. battery back up, pull stations, smoke detectors, heat detectors, bells, and communicator/dialer to firehouse.

PERIMETER SECURITY FENCING

Approximately 14,700 linear feet of chain-link fencing surrounds the Carderock site. Approximately 8,124 linear feet of fencing encloses outside storage areas, electrical substations, explosives testing area, and the tennis court. The chain link fencing consists of the following: 1) fabric consists 2”galvanized chain links with twisted selvages top and bottom. Some fabric has PVC slats inserted for privacy screening; 2) 2 rows of double-strand 4 point barbed wire on top supported by painted metal outriggers projecting over the fabric; 3) concrete foundations and pipe sleeves; 4) painted or galvanized metal fence line, corner, and gate posts consecutively numbered; 5) top and bottom support rails and tension wire; 6) fabric and pipe supported gates of various sizes; 7) other miscellaneous fencing accessories as required for the complete installation

TRAILER T04

GENERAL

Primary Use Classification - storage

Floors – 1 above grade,

Total Floor Square Footage - Approximately 576 SF

Historical Significance – Non-Contributing

EXTERIOR SURFACES

Walls are metal. Windows are metal frames with single pane glass. Doors are metal.

INTERIOR SURFACES

Walls are paneled. Ceilings are lay-in mineral fiber tile, or metal, or unfinished. Floors may be carpet or vinyl tile. Doors may be either wood or metal.

PLUMBING

None

HEATING, VENTILATING, & AIR CONDITIONING

Cooling

This building is cooled using window a/c units.

Heating

Electric baseboard serves this trailer.

Ventilation

Fresh air is introduced through the window a/c units.

ELECTRICAL

208/120 vac at 100 amps

TRAILER T12

GENERAL

Primary Use Classification - storage

Floors – 1 above grade,

Total Floor Square Footage - Approximately 576 SF

Historical Significance – Non-Contributing

EXTERIOR SURFACES

Walls are metal. Windows are metal frames with single pane glass. Doors are metal.

INTERIOR SURFACES

Walls are paneled. Ceilings are lay-in mineral fiber tile, or metal, or unfinished. Floors may be carpet or vinyl tile. Doors may be either wood or metal.

PLUMBING

None

HEATING, VENTILATING, & AIR CONDITIONING

Cooling

This building is cooled using window a/c units.

Heating

Electric baseboard serves this trailer.

Ventilation

Fresh air is introduced through the window a/c units.

ELECTRICAL

208/120 vac at 100 amps

TRAILER T-22

GENERAL

Primary Use Classification - storage

Floors – 1 above grade,

Total Floor Square Footage - Approximately 576 SF

Historical Significance – Non-Contributing

EXTERIOR SURFACES

Walls are metal. Windows are metal frames with single pane glass. Doors are metal.

INTERIOR SURFACES

Walls are paneled. Ceilings are lay-in mineral fiber tile, or metal, or unfinished. Floors may be carpet or vinyl tile. Doors may be either wood or metal.

PLUMBING

None

HEATING, VENTILATING, & AIR CONDITIONING

Cooling

This building is cooled using window a/c units.

Heating

Electric baseboard serves this trailer.

Ventilation

Fresh air is introduced through the window a/c units.

ELECTRICAL

208/120 vac at 100 amps

TRAILER T40

GENERAL

Primary Use Classification - administrative

Floors – 1 above grade

Total Floor Square Footage - Approximately 8,000 SF

Historical Significance – Non-Contributing

EXTERIOR SURFACES

Walls are metal. Doors are either metal or wood. Hardware styles and finishes vary.

INTERIOR SURFACES

Walls are finished paneling, painted drywall, or manufactured cloth-covered panels. Floors are carpet and vinyl tile. Ceilings are lay-in mineral fiber tile. Doors are wood with various types of hardware and finishes.

PLUMBING

Mens and Womens Restroom with standard fixtures

HEATING, VENTILATING, & AIR CONDITIONING

Cooling

Packaged heat pumps units cool this entire building.

Heating

These same packaged heat pumps provide the heat for this building as well.

Ventilation

Outside of the air brought in through the packaged heat pumps, typical bathroom exhausts are present.

ELECTRICAL

Electrical Service

Service to building # T-40 is provided from transformer T-13 at 208Y/120-volts.

Interior Distribution

Distribution of electrical power is done through lighting panel at 208Y/120-volts.

Lighting and Power

Standard florescent fixtures that use T-8 type lamps provide all of the lighting throughout the building. All lighting is 120-volts. Power for lighting, receptacles and equipment is 208Y/120-volts. Equipment, lighting and receptacles are fed from lighting panels.

Emergency and Exit Lighting

Emergency lighting is standard 2 light wall mounted 6-volt self-charging battery pack type. Exit lights are L.E.D. types, wall or ceiling mounted with 6-volt self-charging battery back up. All emergency lighting is 120 volts.

Fire Alarm

Fire alarm system consists of control panel with 24-volt D.C. battery back up, pull stations, smoke detectors, bells, and communicator/dialer to firehouse.

BUILDING T-150

GENERAL

Primary Use Classification - administrative

Floors – 1 above grade

Total Floor Square Footage - Approximately 2500 SF

Historical Significance – Non-Contributing

EXTERIOR SURFACES

Walls are T-111 wood panels. Doors are either metal or wood. Hardware styles and finishes vary.

INTERIOR SURFACES

Walls are finished paneling, painted drywall, or manufactured cloth-covered panels. Floors are carpet and vinyl tile. Ceilings are lay-in mineral fiber tile. Doors are wood with various types of hardware and finishes.

PLUMBING

Mens and Womens Restroom with standard fixtures

HEATING, VENTILATING, & AIR CONDITIONING

Cooling

Packaged heat pumps units cool this entire building.

Heating

These same packaged heat pumps provide the heat for this building as well.

Ventilation

Outside of the air brought in through the packaged heat pumps, typical bathroom exhausts are present.

ELECTRICAL

Electrical Service

Service to building # T-150 is provided from building 4-E at 208Y/120-volts.

Interior Distribution

Distribution of electrical power is done through lighting panel at 208Y/120-volts.

Lighting and Power

Standard florescent fixtures that use T-8 type lamps provide all of the lighting throughout the building. All lighting is 120-volts. Power for lighting, receptacles and equipment is 208Y/120-volts. Equipment, lighting and receptacles are fed from lighting panels.

Emergency and Exit Lighting

Emergency lighting is standard 2 light wall mounted 6-volt self-charging battery pack type. Exit lights are L.E.D. types, wall or ceiling mounted with 6-volt self-charging battery back up. All emergency lighting is 120 volts.

Fire Alarm

Fire alarm system consists of control panel with 24-volt D.C. battery back up, pull stations, smoke detectors, bells, and communicator/dialer to firehouse.

ATTACHMENT C.12-18. EMERGENCY LIGHTING INVENTORY

ATTACHMENT C.12-18 EMERGENCY LIGHTING INVENTORY

EQUIPMENT NBR	EQUIPMENT NAME	BLDG	LOCATION	MANUFACTURER	MODEL	COLOR	VOLTAGE	COMPONENTS	TYPE
002EML001	EMERGENCY LIGHT	002	BSMT.HALL	EMERGI-LITE	JSM-18-2	WHITE	120-VOLTS	2 LIGHTS @ 6-VOLTS	6-VOLT
002EML002	EMERGENCY LIGHT	002	RM. 22	EMERGI-LITE	JSM-18-2	WHITE	120-VOLTS	2 LIGHTS @ 6-VOLTS	6-VOLT
002EML003	EMERGENCY LIGHT	002	BSMT.HALL	EMERGI-LITE	JSM-18-2	WHITE	120-VOLTS	2 LIGHTS @ 6-VOLTS	6-VOLT
002EML004	EMERGENCY LIGHT	002	BSMT.HALL	EMERGI-LITE	JSM-18-2	WHITE	120-VOLTS	2 LIGHTS @ 6-VOLTS	6-VOLT
002EML005	EMERGENCY LIGHT	002	RM. 330	EMERGI-LITE	JSM-18-2	WHITE	120-VOLTS	2 LIGHTS @ 6-VOLTS	6-VOLT
002EML006	EMERGENCY LIGHT	002	3RD FL HAL	EMERGI-LITE	JSM-18-2	WHITE	120-VOLTS	2 LIGHTS @ 6-VOLTS	6-VOLT
002EML007	EMERGENCY LIGHT	002	3RD FL HAL	EMERGI-LITE	JSM-18-2	WHITE	120-VOLTS	2 LIGHTS @ 6-VOLTS	6-VOLT
001EML001	EMERGENCY LIGHT	001	STEAM TUNNEL.	EMERGI-LITE	JSM-18-2	WHITE	120-VOLTS	2 LIGHTS @ 6-VOLTS	6-VOLT
001EML002	EMERGENCY LIGHT	001	BSMT. HALL	EMERGI-LITE	JSM-18-2	WHITE	120-VOLTS	2 LIGHTS @ 6-VOLTS	6-VOLT
001EML003	EMERGENCY LIGHT	001		EMERGI-LITE	JSM-18-2	WHITE	120-VOLTS	2 LIGHTS @ 6-VOLTS	6-VOLT
001EML004	EMERGENCY LIGHT	001	18A	EMERGI-LITE	JSM-18-2	WHITE	120-VOLTS	2 LIGHTS @ 6-VOLTS	6-VOLT
001EML005	EMERGENCY LIGHT	001	BSMT. HALL	EMERGI-LITE	JSM-182	WHITE	120-VOLTS	2 LIGHTS @ 6-VOLTS	6-VOLT
001EML006	EMERGENCY LIGHT	001	BSMT.HALL	EMERGI-LITE	JSM-18-2	WHITE	120-VOLTS	2 LIGHTS @ 6-VOLTS	6-VOLT
001EML007	EMERGENCY LIGHT	001	14	EMERGI-LITE	JSM-18-2	WHITE	120-VOLTS	2 LIGHTS @ 6-VOLTS	6-VOLT
001EML008	EMERGENCY LIGHT	001	BSMT.HALL	EMERGI-LITE	JSM-18-2	WHITE	120-VOLTS	2 LIGHTS @ 6-VOLTS	6-VOLT
001EML009	EMERGENCY LIGHT	001	BSMT.HALL	EMERGI-LITE	JSM-18-2	WHITE	120-VOLTS	2 LIGHTS @ 6-VOLTS	6-VOLT
001EML010	EMERGENCY LIGHT	001	BSMT.HALL	EMERGI-LITE	JSM-18-2	WHITE	120-VOLTS	2 LIGHTS @ 6-VOLTS	6-VOLT
001EML011	EMERGENCY LIGHT	001	BSMT.HALL	EMERGI-LITE	JSM-18-2	WHITE	120-VOLTS	2 LIGHTS @ 6-VOLTS	6-VOLT
001EML012	EMERGENCY LIGHT	001	W.STAIRWELL	EMERGI-LITE	JSM-18-2	WHITE	120-VOLTS	2 LIGHTS @ 6-VOLTS	6-VOLT
001EML013	EMERGENCY LIGHT	001	115	EMERGI-LITE	JSM-18-2	WHITE	120-VOLTS	2 LIGHTS @ 6-VOLTS	6-VOLT
001EML014	EMERGENCY LIGHT	001	115	EMERGI-LITE	JSM-18-2	WHITE	120-VOLTS	2 LIGHTS @ 6-VOLTS	6-VOLT
001EML015	EMERGENCY LIGHT	001	115	EMERGI-LITE	JSM-18-2	WHITE	120-VOLTS	2 LIGHTS @ 6-VOLTS	6-VOLT
001EML016	EMERGENCY LIGHT	001	115	EMERGI-LITE	JSM-18-2	WHITE	120-VOLTS	2 LIGHTS @ 6-VOLTS	6-VOLT
001EML017	EMERGENCY LIGHT	001	115	EMERGI-LITE	JSM-18-2	WHITE	120-VOLTS	2 LIGHTS @ 6-VOLTS	6-VOLT
001EML018	EMERGENCY LIGHT	001	115	EMERGI-LITE	JSM-18-2	WHITE	120-VOLTS	2 LIGHTS @ 6-VOLTS	6-VOLT
001EML019	EMERGENCY LIGHT	001	115	EMERGI-LITE	JSM-18-2	WHITE	120-VOLTS	2 LIGHTS @ 6-VOLTS	6-VOLT
001EML020	EMERGENCY LIGHT	001	115	EMERGI-LITE	JSM-18-2	WHITE	120-VOLTS	2 LIGHTS @ 6-VOLTS	6-VOLT
001EML021	EMERGENCY LIGHT	001	115	EMERGI-LITE	JSM-18-2	WHITE	120-VOLTS	2 LIGHTS @ 6-VOLTS	6-VOLT
001EML022	EMERGENCY LIGHT	001	115	EMERGI-LITE	JSM-18-2	WHITE	120-VOLTS	2 LIGHTS @ 6-VOLTS	6-VOLT
001EML023	EMERGENCY LIGHT	001	LOADING DOCK	EMERGI-LITE	JSM-18-2	WHITE	120-VOLTS	2 LIGHTS @ 6-VOLTS	6-VOLT
001EML024	EMERGENCY LIGHT	001	104	EMERGI-LITE	JSM-18-2	WHITE	120-VOLTS	2 LIGHTS @ 6-VOLTS	6-VOLT
001EML025	EMERGENCY LIGHT	001	102	EMERGI-LITE	JSM-18-2	WHITE	120-VOLTS	2 LIGHTS @ 6-VOLTS	6-VOLT
001EML026	EMERGENCY LIGHT	001	W.STAIRWELL	EMERGI-LITE	JSM-18-2	WHITE	120-VOLTS	2 LIGHTS @ 6-VOLTS	6-VOLT
001EML027	EMERGENCY LIGHT	001	112	EMERGI-LITE	JSM-18-2	WHITE	120-VOLTS	2 LIGHTS @ 6-VOLTS	6-VOLT
001EML028	EMERGENCY LIGHT	001	119M	EMERGI-LITE	JSM-18-2	WHITE	120-VOLTS	2 LIGHTS @ 6-VOLTS	6-VOLT
001EML029	EMERGENCY LIGHT	001	W.STAIRWELL	EMERGI-LITE	JSM-18-2	WHITE	120-VOLTS	2 LIGHTS @ 6-VOLTS	6-VOLT

ATTACHMENT C.12-18 EMERGENCY LIGHTING INVENTORY

EQUIPMENT NBR	EQUIPMENT NAME	BLDG	LOCATION	MANUFACTURER	MODEL	COLOR	VOLTAGE	COMPONENTS	TYPE
001EML030	EMERGENCY LIGHT	001	W.STAIRWELL	EMERGI-LITE	JSM-18-2	WHITE	120-VOLTS	2 LIGHTS @ 6-VOLTS	6-VOLT
001EML031	EMERGENCY LIGHT	001	115	EMERGI-LITE	JSM-18-2	WHITE	120-VOLTS	2 LIGHTS @ 6-VOLTS	6-VOLT
001EML032	EMERGENCY LIGHT	001	214	EMERGI-LITE	JSM-18-2	WHITE	120-VOLTS	2 LIGHTS @ 6-VOLTS	6-VOLT
001EML033	EMERGENCY LIGHT	001	2ND FL HAL	EMERGI-LITE	JSM-18-2	WHITE	120-VOLTS	2 LIGHTS @ 6-VOLTS	6-VOLT
001EML034	EMERGENCY LIGHT	001	2ND FL HAL	EMERGI-LITE	JSM-18-2	WHITE	120-VOLTS	2 LIGHTS @ 6-VOLTS	6-VOLT
001EML035	EMERGENCY LIGHT	001	212	EMERGI-LITE	JSM-18-2	WHITE	120-VOLTS	2 LIGHTS @ 6-VOLTS	6-VOLT
001EML036	EMERGENCY LIGHT	001	205	EMERGI-LITE	JSM-18-2	WHITE	120-VOLTS	2 LIGHTS @ 6-VOLTS	6-VOLT
001EML037	EMERGENCY LIGHT	001	205	EMERGI-LITE	JSM-18-2	WHITE	120-VOLTS	2 LIGHTS @ 6-VOLTS	6-VOLT
001EML038	EMERGENCY LIGHT	001	205	EMERGI-LITE	JSM-18-2	WHITE	120-VOLTS	2 LIGHTS @ 6-VOLTS	6-VOLT
001EML039	EMERGENCY LIGHT	001	205	EMERGI-LITE	JSM-18-2	WHITE	120-VOLTS	2 LIGHTS @ 6-VOLTS	6-VOLT
001EML040	EMERGENCY LIGHT	001	205	EMERGI-LITE	JSM-18-2	WHITE	120-VOLTS	2 LIGHTS @ 6-VOLTS	6-VOLT
001EML041	EMERGENCY LIGHT	001	201	EMERGI-LITE	JSM-18-2	WHITE	120-VOLTS	2 LIGHTS @ 6-VOLTS	6-VOLT
001EML042	EMERGENCY LIGHT	001	202	EMERGI-LITE	JSM-18-2	WHITE	120-VOLTS	2 LIGHTS @ 6-VOLTS	6-VOLT
001EML043	EMERGENCY LIGHT	001	W.STAIRWELL	EMERGI-LITE	JSM-18-2	WHITE	120-VOLTS	2 LIGHTS @ 6-VOLTS	6-VOLT
001EML044	EMERGENCY LIGHT	001	215M	EMERGI-LITE	JSM-18-2	WHITE	120-VOLTS	2 LIGHTS @ 6-VOLTS	6-VOLT
001EML045	EMERGENCY LIGHT	001	MEZZ HALL	EMERGI-LITE	JSM-18-2	WHITE	120-VOLTS	2 LIGHTS @ 6-VOLTS	6-VOLT
001EML046	EMERGENCY LIGHT	001	PENT HOUSE	EMERGI-LITE	JSM-18-2	WHITE	120-VOLTS	2 LIGHTS @ 6-VOLTS	6-VOLT
003EML001	EMERGENCY LIGHT	003	W.STAIRWELL	EMERGI-LITE	JSM-18-2	WHITE	120-VOLTS	2 LIGHTS @ 6-VOLTS	6-VOLT
003EML002	EMERGENCY LIGHT	003	BSMT.HALL	EMERGI-LITE	EMERGI-LITE	WHITE	120-VOLTS	2 LIGHTS @ 6-VOLTS	6-VOLT
003EML003	EMERGENCY LIGHT	003	BSMT.HALL	EMERGI-LITE	JSM-18-2	WHITE	120-VOLTS	2 LIGHTS @ 6-VOLTS	6-VOLT
003EML004	EMERGENCY LIGHT	003	BSMT.HALL	EMERGI-LITE	JSM-18-2	WHITE	120 VOLTS	2 LIGHTS @ 6-VOLTS	6-VOLT
003EML005	EMERGENCY LIGHT	003	N. STAIRWELL	EMERGI-LITE	JSM-18-2	WHITE	120-VOLTS	2 LIGHTS @ 6-VOLTS	6-VOLT
003EML006	EMERGENCY LIGHT	003	BSMT.HALL	EMERGI-LITE	JSM-18-2	WHITE	120-VOLTS	2 LIGHTS @ 6-VOLTS	6-VOLT
003EML007	EMERGENCY LIGHT	003	BSMT.HALL	EMERGI-LITE	JSM-18-2	WHITE	120-VOLTS	2LIGHTS @ 6-VOLTS	6-VOLT
003EML008	EMERGENCY LIGHT	003	S. STAIRWELL	EMERGI-LITE	JSM-18-2	WHITE	120-VOLTS	2 LIGHTS @ 6-VOLTS	6-VOLT
003EML009	EMERGENCY LIGHT	003	BSMT.HALL	EMERGI-LITE	JSM-18-2	WHITE	120-VOLTS	2 LIGHTS @ 6-VOLTS	6-VOLT
003EML010	EMERGENCY LIGHT	003	41	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
003EML011	EMERGENCY LIGHT	003	41	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
003EML012	EMERGENCY LIGHT	003	41	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
003EML013	EMERGENCY LIGHT	003	41	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
003EML014	EMERGENCY LIGHT	003	1ST FL.HALL	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
003EML015	EMERGENCY LIGHT	003	N. STAIRWELL	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
003EML016	EMERGENCY LIGHT	003	2ND FL.HALL	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
003EML017	EMERGENCY LIGHT	003	2ND FL.HALL	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
003EML018	EMERGENCY LIGHT	003	2ND FL.HALL	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
003EML019	EMERGENCY LIGHT	003	N. STAIRWELL	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT

ATTACHMENT C.12-18 EMERGENCY LIGHTING INVENTORY

EQUIPMENT NBR	EQUIPMENT NAME	BLDG	LOCATION	MANUFACTURER	MODEL	COLOR	VOLTAGE	COMPONENTS	TYPE
003EML020	EMERGENCY LIGHT	003	2ND FL.HALL	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
003EML021	EMERGENCY LIGHT	003	2ND FL.HALL	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
003EML022	EMERGENCY LIGHT	003	2ND FL.HALL	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
003EML023	EMERGENCY LIGHT	003	3RD FL.HALL	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
003EML024	EMERGENCY LIGHT	003	3RD FL.HALL	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
003EML025	EMERGENCY LIGHT	003	N. STAIRWELL	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
003EML026	EMERGENCY LIGHT	003	W.STAIRWELL	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML001	EMERGENCY LIGHT	004	50	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS 2 6-volts	6-VOLT
004EML002	EMERGENCY LIGHT	004	4E BSMT.	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML003	EMERGENCY LIGHT	004	4E BSMT.	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML004	EMERGENCY LIGHT	004	4E BSMT.	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML005	EMERGENCY LIGHT	004	4E BSMT.	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML006	EMERGENCY LIGHT	004	4E BSMT.	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML007	EMERGENCY LIGHT	004	4E BSMT.	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML008	EMERGENCY LIGHT	004	4E BSMT.	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML009	EMERGENCY LIGHT	004	4E BSMT.	EMERGI-LIGHT	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML010	EMERGENCY LIGHT	004	4E BSMT.	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML011	EMERGENCY LIGHT	004	4E BSMT.	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML012	EMERGENCY LIGHT	004	4-E BSMT.	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML013	EMERGENCY LIGHT	004	4E BSMT.	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML014	EMERGENCY LIGHT	004	4E BSMT.	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML015	EMERGENCY LIGHT	004	4E BSMT.	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML016	EMERGENCY LIGHT	004	N. STAIRWELL	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML017	EMERGENCY LIGHT	004	GEN. RM.	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML018	EMERGENCY LIGHT	004	GEN. RM.	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML019	EMERGENCY LIGHT	004	GEN. RM.	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML020	EMERGENCY LIGHT	004	GEN. RM.	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML021	EMERGENCY LIGHT	004	100A	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML022	EMERGENCY LIGHT	004	100A	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML023	EMERGENCY LIGHT	004	100A	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML024	EMERGENCY LIGHT	004	100A	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML026	EMERGENCY LIGHT	004	100	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML025	EMERGENCY LIGHT	004	100	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML027	EMERGENCY LIGHT	004	100	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML028	EMERGENCY LIGHT	004	100	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML029	EMERGENCY LIGHT	004	100	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT

ATTACHMENT C.12-18 EMERGENCY LIGHTING INVENTORY

EQUIPMENT NBR	EQUIPMENT NAME	BLDG	LOCATION	MANUFACTURER	MODEL	COLOR	VOLTAGE	COMPONENTS	TYPE
004EML030	EMERGENCY LIGHT	004	100	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML031	EMERGENCY LIGHT	004	137A	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML032	EMERGENCY LIGHT	004	110	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML033	EMERGENCY LIGHT	004	110	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML034	EMERGENCY LIGHT	004	S. STAIRWELL	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML035	EMERGENCY LIGHT	004	S. STAIRWELL	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML036	EMERGENCY LIGHT	004	100A	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML037	EMERGENCY LIGHT	004	205	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML038	EMERGENCY LIGHT	004	211	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML039	EMERGENCY LIGHT	004	205	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML040	EMERGENCY LIGHT	004	100	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML041	EMERGENCY LIGHT	004	100	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML042	EMERGENCY LIGHT	004	MEZZ.	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML043	EMERGENCY LIGHT	004	MEZZ.	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML044	EMERGENCY LIGHT	004	MEZZ.	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML045	EMERGENCY LIGHT	004	S. STAIRWELL	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML046	EMERGENCY LIGHT	004	S. STAIRWELL	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML047	EMERGENCY LIGHT	004	S. WALK	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML048	EMERGENCY LIGHT	004	S. WALK	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML049	EMERGENCY LIGHT	004	S. WALK	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML050	EMERGENCY LIGHT	004	S. WALK	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML051	EMERGENCY LIGHT	004	S. WALK	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML052	EMERGENCY LIGHT	004	S. WALK	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML053	EMERGENCY LIGHT	004	S. WALK	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML054	EMERGENCY LIGHT	004	S. WALK	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML055	EMERGENCY LIGHT	004	S. WALK	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML056	EMERGENCY LIGHT	004	S. WALK	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML057	EMERGENCY LIGHT	004	S. WALK	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML058	EMERGENCY LIGHT	004	S. WALK	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML059	EMERGENCY LIGHT	004	S. WALK	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML060	EMERGENCY LIGHT	004	S. WALK	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML061	EMERGENCY LIGHT	004	S. WALK	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML062	EMERGENCY LIGHT	004	S. WALK	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML063	EMERGENCY LIGHT	004	S. WALK	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML064	EMERGENCY LIGHT	004	S. WALK	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML065	EMERGENCY LIGHT	004	S. WALK	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT

ATTACHMENT C.12-18 EMERGENCY LIGHTING INVENTORY

EQUIPMENT NBR	EQUIPMENT NAME	BLDG	LOCATION	MANUFACTURER	MODEL	COLOR	VOLTAGE	COMPONENTS	TYPE
004EML066	EMERGENCY LIGHT	004	S. WALK	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML067	EMERGENCY LIGHT	004	S. WALK	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML068	EMERGENCY LIGHT	004	S. WALK	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML069	EMERGENCY LIGHT	004	J. BASIN	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML070	EMERGENCY LIGHT	004	J. BASIN	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML071	EMERGENCY LIGHT	004	J. BASIN	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML072	EMERGENCY LIGHT	004	J. BASIN	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML073	EMERGENCY LIGHT	004	J. BASIN	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML074	EMERGENCY LIGHT	004	J. BASIN	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML075	EMERGENCY LIGHT	004	CENTER WALK	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML076	EMERGENCY LIGHT	004	CENTER WALK	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML077	EMERGENCY LIGHT	004	CENTER WALK	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML078	EMERGENCY LIGHT	004	CENTER WALK	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML079	EMERGENCY LIGHT	004	CENTER WALK	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML080	EMERGENCY LIGHT	004	CENTER WALK	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML081	EMERGENCY LIGHT	004	CENTER WALK	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML082	EMERGENCY LIGHT	004	CENTER WALK	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML083	EMERGENCY LIGHT	004	CENTER WALK	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML084	EMERGENCY LIGHT	004	CENTER WALK	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML085	EMERGENCY LIGHT	004	CENTER WALK	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML086	EMERGENCY LIGHT	004	CENTER WALK	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML087	EMERGENCY LIGHT	004	CENTER WALK	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML088	EMERGENCY LIGHT	004	CENTER WALK	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML089	EMERGENCY LIGHT	004	CENTER WALK	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML090	EMERGENCY LIGHT	004	CENTER WALK	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML091	EMERGENCY LIGHT	004	CENTER WALK	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML092	EMERGENCY LIGHT	004	CENTER WALK	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML094	EMERGENCY LIGHT	004	CENTER WALK	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML093	EMERGENCY LIGHT	004	CENTER WALK	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML095	EMERGENCY LIGHT	004	CENTER WALK	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML096	EMERGENCY LIGHT	004	CENTER WALK	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML097	EMERGENCY LIGHT	004	CENTER WALK	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML098	EMERGENCY LIGHT	004	CENTER WALK	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML099	EMERGENCY LIGHT	004	CENTER WALK	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML100	EMERGENCY LIGHT	004	CENTER WALK	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML101	EMERGENCY LIGHT	004	CENTER WALK	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT

ATTACHMENT C.12-18 EMERGENCY LIGHTING INVENTORY

EQUIPMENT NBR	EQUIPMENT NAME	BLDG	LOCATION	MANUFACTURER	MODEL	COLOR	VOLTAGE	COMPONENTS	TYPE
004EML102	EMERGENCY LIGHT	004	CENTER WALK	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML103	EMERGENCY LIGHT	004	N. WALK	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML104	EMERGENCY LIGHT	004	N. WALK	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML105	EMERGENCY LIGHT	004	N. WALK	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML106	EMERGENCY LIGHT	004	N. WALK	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML107	EMERGENCY LIGHT	004	N. WALK	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML108	EMERGENCY LIGHT	004	N. WALK	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML109	EMERGENCY LIGHT	004	N. WALK	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML110	EMERGENCY LIGHT	004	N. WALK	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML111	EMERGENCY LIGHT	004	N. WALK	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML112	EMERGENCY LIGHT	004	N. WALK	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML113	EMERGENCY LIGHT	004	N. WALK	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML114	EMERGENCY LIGHT	004	N. WALK	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML115	EMERGENCY LIGHT	004	N. WALK	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML116	EMERGENCY LIGHT	004	N. WALK	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML117	EMERGENCY LIGHT	004	N. WALK	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML118	EMERGENCY LIGHT	004	N. WALK	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML119	EMERGENCY LIGHT	004	N. WALK	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML120	EMERGENCY LIGHT	004	N. WALK	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML121	EMERGENCY LIGHT	004	N. WALK	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML122	EMERGENCY LIGHT	004	N. WALK	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML123	EMERGENCY LIGHT	004	N. WALK	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML124	EMERGENCY LIGHT	004	N. WALK	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML125	EMERGENCY LIGHT	004	N. WALK	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML126	EMERGENCY LIGHT	004	N. WALK	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
004EML127	EMERGENCY LIGHT	004	N. WALK	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
005EML001	EMERGENCY LIGHT	005	BSMT.	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
005EML002	EMERGENCY LIGHT	005	BSMT.	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
005EML003	EMERGENCY LIGHT	005	BSMT.	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
005EML004	EMERGENCY LIGHT	005	BSMT.	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
005EML005	EMERGENCY LIGHT	005	1ST. FL.	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
005EML006	EMERGENCY LIGHT	005	1ST. FL.	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
005EML007	EMERGENCY LIGHT	005	1ST. FL.	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
005EML008	EMERGENCY LIGHT	005	1ST. FL.	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
005EML009	EMERGENCY LIGHT	005	1ST. FL.	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
005EML010	EMERGENCY LIGHT	005	2ND. FL.	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT

ATTACHMENT C.12-18 EMERGENCY LIGHTING INVENTORY

EQUIPMENT NBR	EQUIPMENT NAME	BLDG	LOCATION	MANUFACTURER	MODEL	COLOR	VOLTAGE	COMPONENTS	TYPE
005EML011	EMERGENCY LIGHT	005	2ND. FL.	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
005EML012	EMERGENCY LIGHT	005	3RD. FL.	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
005EML013	EMERGENCY LIGHT	005	3RD. FL.	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
005EML014	EMERGENCY LIGHT	005	3RD. FL.	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
005EML015	EMERGENCY LIGHT	005	3RD. FL.	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
006EML001	EMERGENCY LIGHT	006	OFFICE	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
006EML002	EMERGENCY LIGHT	006	127	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
006EML003	EMERGENCY LIGHT	006	127	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
006EML004	EMERGENCY LIGHT	006	127	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
006EML005	EMERGENCY LIGHT	006	124	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
006EML006	EMERGENCY LIGHT	006	120	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
006EML007	EMERGENCY LIGHT	006	118	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
006EML008	EMERGENCY LIGHT	006	117	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
006EML009	EMERGENCY LIGHT	006	117	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
006EML010	EMERGENCY LIGHT	006	117	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
006EML011	EMERGENCY LIGHT	006	117	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
006EML012	EMERGENCY LIGHT	006	CAT WALK	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
006EML013	EMERGENCY LIGHT	006	CONTROL RM	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
006EML014	EMERGENCY LIGHT	006	STEAM TUNNEL	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
006EML015	EMERGENCY LIGHT	006	F.P. ROOM	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
007EML001	EMERGENCY LIGHT	007	150	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
007EML002	EMERGENCY LIGHT	007	1ST.FL.HAL	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
007EML003	EMERGENCY LIGHT	007	E. STAIRWELL	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
007EML004	EMERGENCY LIGHT	007	2ND.FL.HAL	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
007EML005	EMERGENCY LIGHT	007	2ND.FL.HAL	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
008EML001	EMERGENCY LIGHT	008	110	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
008EML002	EMERGENCY LIGHT	008	110	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
009EML001	EMERGENCY LIGHT	009	145	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
009EML002	EMERGENCY LIGHT	009	144	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
009EML003	EMERGENCY LIGHT	009	MACH. SHOP	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
009EML004	EMERGENCY LIGHT	009	MACH. SHOP	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
009EML005	EMERGENCY LIGHT	009	MACH. SHOP	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
009EML006	EMERGENCY LIGHT	009	MACH. SHOP	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
009EML007	EMERGENCY LIGHT	009	MACH. SHOP	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
009EML008	EMERGENCY LIGHT	009	MACH. SHOP	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
009EML009	EMERGENCY LIGHT	009	100	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT

ATTACHMENT C.12-18 EMERGENCY LIGHTING INVENTORY

EQUIPMENT NBR	EQUIPMENT NAME	BLDG	LOCATION	MANUFACTURER	MODEL	COLOR	VOLTAGE	COMPONENTS	TYPE
009EML010	EMERGENCY LIGHT	009	100	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
009EML011	EMERGENCY LIGHT	009	100	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
009EML012	EMERGENCY LIGHT	009	138	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
009EML013	EMERGENCY LIGHT	009	S.M. SHOP	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
009EML014	EMERGENCY LIGHT	009	112	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
009EML015	EMERGENCY LIGHT	009	112	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
009EML016	EMERGENCY LIGHT	009	MEZZ.	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
010EML001	EMERGENCY LIGHT	010	101	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
010EML002	EMERGENCY LIGHT	010	HALL	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
010EML003	EMERGENCY LIGHT	010	107	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
010EML004	EMERGENCY LIGHT	010	120	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
010EML005	EMERGENCY LIGHT	010	2ND FL.HALL	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
011EML001	EMERGENCY LIGHT	011		COOPER	SLC-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
011EML002	EMERGENCY LIGHT	011		COOPER	SLC-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
011EML003	EMERGENCY LIGHT	011		COOPER	SLC-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
011EML004	EMERGENCY LIGHT	011		COOPER	SLC-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
011EML005	EMERGENCY LIGHT	011		COOPER	SLC-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
011EML006	EMERGENCY LIGHT	011		COOPER	SLC-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
011EML007	EMERGENCY LIGHT	011		COOPER	SLC-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
011EML008	EMERGENCY LIGHT	011		COOPER	SLC-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
011EML009	EMERGENCY LIGHT	011		COOPER	SLC-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
011EML010	EMERGENCY LIGHT	011		COOPER	SLC-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
011EML011	EMERGENCY LIGHT	011		COOPER	SLC-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
011EML012	EMERGENCY LIGHT	011		COOPER	SLC-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
012EML001	EMERGENCY LIGHT	012	1	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
012EML002	EMERGENCY LIGHT	012	5	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
012EML003	EMERGENCY LIGHT	012	5	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
013EML001	EMERGENCY LIGHT	013	N. STAIRWELL	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
013EML002	EMERGENCY LIGHT	013	BSMT.HALL	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
013EML003	EMERGENCY LIGHT	013	BSMT.HALL	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
013EML004	EMERGENCY LIGHT	013	N. STAIRWELL	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
013EML005	EMERGENCY LIGHT	013	1ST.FL.HAL	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
013EML006	EMERGENCY LIGHT	013	W.STAIRWELL	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
013EML007	EMERGENCY LIGHT	013	N. STAIRWELL	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
013EML008	EMERGENCY LIGHT	013	W.STAIRWELL	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
013EML009	EMERGENCY LIGHT	013	W.STAIRWELL	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT

ATTACHMENT C.12-18 EMERGENCY LIGHTING INVENTORY

EQUIPMENT NBR	EQUIPMENT NAME	BLDG	LOCATION	MANUFACTURER	MODEL	COLOR	VOLTAGE	COMPONENTS	TYPE
016EML001	EMERGENCY LIGHT	016	LOWER TUNNEL.	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
016EML002	EMERGENCY LIGHT	016	LOWER TUNNEL.	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
016EML003	EMERGENCY LIGHT	016	LOWER TUNNEL.	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
016EML004	EMERGENCY LIGHT	016	1C	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
016EML005	EMERGENCY LIGHT	016	3	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
016EML006	EMERGENCY LIGHT	016	5	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
016EML007	EMERGENCY LIGHT	016	5B	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
016EML008	EMERGENCY LIGHT	016	1ST.FL.HAL	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
016EML009	EMERGENCY LIGHT	016	1ST.FL.HAL	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
016EML010	EMERGENCY LIGHT	016	2ND.FL.HAL	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
016EML011	EMERGENCY LIGHT	016	2ND.FL.HAL	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
016EML012	EMERGENCY LIGHT	016	300	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
016EML013	EMERGENCY LIGHT	016	301	EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
017EML001	EMERGENCY LIGHT	017		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
017EML002	EMERGENCY LIGHT	017		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
017EML003	EMERGENCY LIGHT	017		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
017EML004	EMERGENCY LIGHT	017		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
017EML005	EMERGENCY LIGHT	017		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
017EML006	EMERGENCY LIGHT	017		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
017EML007	EMERGENCY LIGHT	017		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
017EML008	EMERGENCY LIGHT	017		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
017EML009	EMERGENCY LIGHT	017		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
017EML010	EMERGENCY LIGHT	017		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
017EML011	EMERGENCY LIGHT	017		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
017EML012	EMERGENCY LIGHT	017		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
017EML013	EMERGENCY LIGHT	017		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
017EML014	EMERGENCY LIGHT	017		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
017EML015	EMERGENCY LIGHT	017		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
017EML016	EMERGENCY LIGHT	017		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
017EML017	EMERGENCY LIGHT	017		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
017EML018	EMERGENCY LIGHT	017		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
017EML019	EMERGENCY LIGHT	017		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
017EML020	EMERGENCY LIGHT	017		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
017EML021	EMERGENCY LIGHT	017		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
017EML022	EMERGENCY LIGHT	017		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
017EML023	EMERGENCY LIGHT	017		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT

ATTACHMENT C.12-18 EMERGENCY LIGHTING INVENTORY

EQUIPMENT NBR	EQUIPMENT NAME	BLDG	LOCATION	MANUFACTURER	MODEL	COLOR	VOLTAGE	COMPONENTS	TYPE
017EML024	EMERGENCY LIGHT	017		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
017EML025	EMERGENCY LIGHT	017		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
017EML026	EMERGENCY LIGHT	017		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
017EML027	EMERGENCY LIGHT	017		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
017EML028	EMERGENCY LIGHT	017		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
017EML029	EMERGENCY LIGHT	017		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
017EML030	EMERGENCY LIGHT	017		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
017EML031	EMERGENCY LIGHT	017		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
017EML032	EMERGENCY LIGHT	017		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
017EML033	EMERGENCY LIGHT	017		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
017EML034	EMERGENCY LIGHT	017		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
017EML035	EMERGENCY LIGHT	017		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
017EML036	EMERGENCY LIGHT	017		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
017EML037	EMERGENCY LIGHT	017		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
017EML038	EMERGENCY LIGHT	017		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
017EML039	EMERGENCY LIGHT	017		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
017EML040	EMERGENCY LIGHT	017		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
017EML041	EMERGENCY LIGHT	017		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
017EML042	EMERGENCY LIGHT	017		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
017EML043	EMERGENCY LIGHT	017		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
017EML044	EMERGENCY LIGHT	017		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
017EML045	EMERGENCY LIGHT	017		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
017EML046	EMERGENCY LIGHT	017		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
017EML047	EMERGENCY LIGHT	017		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
017EML048	EMERGENCY LIGHT	017		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
017EML049	EMERGENCY LIGHT	017		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
017EML050	EMERGENCY LIGHT	017		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
017EML051	EMERGENCY LIGHT	017		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML001	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML002	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML003	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML004	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML005	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML006	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML007	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML008	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT

ATTACHMENT C.12-18 EMERGENCY LIGHTING INVENTORY

EQUIPMENT NBR	EQUIPMENT NAME	BLDG	LOCATION	MANUFACTURER	MODEL	COLOR	VOLTAGE	COMPONENTS	TYPE
018EML009	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML010	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML011	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML012	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML013	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML014	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML015	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML016	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML017	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML018	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML019	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML020	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML021	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML022	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML023	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML024	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML025	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML026	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML027	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML028	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML029	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML030	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML031	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML032	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML033	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML034	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML035	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML036	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML037	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML038	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML039	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML040	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML041	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML042	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML043	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML044	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT

ATTACHMENT C.12-18 EMERGENCY LIGHTING INVENTORY

EQUIPMENT NBR	EQUIPMENT NAME	BLDG	LOCATION	MANUFACTURER	MODEL	COLOR	VOLTAGE	COMPONENTS	TYPE
018EML045	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML046	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML047	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML048	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML049	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML050	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML051	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML052	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML053	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML054	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML055	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML057	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML056	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML058	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML059	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML060	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML061	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML062	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML063	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML064	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML065	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML066	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML067	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML068	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML069	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML070	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML071	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML072	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML073	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML074	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML075	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML076	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML077	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML078	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML079	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML080	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT

ATTACHMENT C.12-18 EMERGENCY LIGHTING INVENTORY

EQUIPMENT NBR	EQUIPMENT NAME	BLDG	LOCATION	MANUFACTURER	MODEL	COLOR	VOLTAGE	COMPONENTS	TYPE
018EML081	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML082	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML083	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML084	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML085	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML086	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML087	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML088	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML089	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML090	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML091	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML092	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML093	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML094	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML095	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML096	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML097	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML098	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML099	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML100	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML101	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML102	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML103	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML104	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML105	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML106	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML107	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML108	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML109	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML110	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML111	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML112	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML113	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML114	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML115	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML116	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT

ATTACHMENT C.12-18 EMERGENCY LIGHTING INVENTORY

EQUIPMENT NBR	EQUIPMENT NAME	BLDG	LOCATION	MANUFACTURER	MODEL	COLOR	VOLTAGE	COMPONENTS	TYPE
018EML117	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML118	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML119	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML120	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML121	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML122	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML123	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML124	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML125	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML126	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML127	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML128	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML129	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML130	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML131	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
018EML132	EMERGENCY LIGHT	018		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
019EML001	EMERGENCY LIGHT	019		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
019EML002	EMERGENCY LIGHT	019		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
019EML003	EMERGENCY LIGHT	019		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
019EML004	EMERGENCY LIGHT	019		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
019EML005	EMERGENCY LIGHT	019		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
019EML006	EMERGENCY LIGHT	019		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
019EML007	EMERGENCY LIGHT	019		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
019EML008	EMERGENCY LIGHT	019		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
019EML009	EMERGENCY LIGHT	019		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
019EML010	EMERGENCY LIGHT	019		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
019EML011	EMERGENCY LIGHT	019		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
019EML012	EMERGENCY LIGHT	019		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
019EML013	EMERGENCY LIGHT	019		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
019EML014	EMERGENCY LIGHT	019		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
019EML015	EMERGENCY LIGHT	019		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
019EML016	EMERGENCY LIGHT	019		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
019EML017	EMERGENCY LIGHT	019		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
019EML018	EMERGENCY LIGHT	019		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
019EML019	EMERGENCY LIGHT	019		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
019EML020	EMERGENCY LIGHT	019		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT

ATTACHMENT C.12-18 EMERGENCY LIGHTING INVENTORY

EQUIPMENT NBR	EQUIPMENT NAME	BLDG	LOCATION	MANUFACTURER	MODEL	COLOR	VOLTAGE	COMPONENTS	TYPE
019EML021	EMERGENCY LIGHT	019		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
019EML022	EMERGENCY LIGHT	019		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
019EML023	EMERGENCY LIGHT	019		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
019EML024	EMERGENCY LIGHT	019		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
019EML025	EMERGENCY LIGHT	019		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
019EML026	EMERGENCY LIGHT	019		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
019EML027	EMERGENCY LIGHT	019		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
019EML028	EMERGENCY LIGHT	019		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
019EML029	EMERGENCY LIGHT	019		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
019EML030	EMERGENCY LIGHT	019		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
019EML031	EMERGENCY LIGHT	019		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
019EML032	EMERGENCY LIGHT	019		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
019EML033	EMERGENCY LIGHT	019		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
019EML034	EMERGENCY LIGHT	019		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
019EML035	EMERGENCY LIGHT	019		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
019EML036	EMERGENCY LIGHT	019		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
019EML037	EMERGENCY LIGHT	019		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
019EML038	EMERGENCY LIGHT	019		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
019EML039	EMERGENCY LIGHT	019		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
019EML040	EMERGENCY LIGHT	019		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
019EML041	EMERGENCY LIGHT	019		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
019EML042	EMERGENCY LIGHT	019		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
019EML043	EMERGENCY LIGHT	019		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
019EML044	EMERGENCY LIGHT	019		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
019EML045	EMERGENCY LIGHT	019		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
019EML046	EMERGENCY LIGHT	019		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
019EML047	EMERGENCY LIGHT	019		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
019EML048	EMERGENCY LIGHT	019		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
019EML049	EMERGENCY LIGHT	019		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
019EML050	EMERGENCY LIGHT	019		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
019EML051	EMERGENCY LIGHT	019		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
019EML052	EMERGENCY LIGHT	019		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
019EML053	EMERGENCY LIGHT	019		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
019EML054	EMERGENCY LIGHT	019		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
019EML055	EMERGENCY LIGHT	019		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
019EML056	EMERGENCY LIGHT	019		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT

ATTACHMENT C.12-18 EMERGENCY LIGHTING INVENTORY

EQUIPMENT NBR	EQUIPMENT NAME	BLDG	LOCATION	MANUFACTURER	MODEL	COLOR	VOLTAGE	COMPONENTS	TYPE
019EML057	EMERGENCY LIGHT	019		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
019EML058	EMERGENCY LIGHT	019		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
019EML059	EMERGENCY LIGHT	019		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
019EML060	EMERGENCY LIGHT	019		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
019EML061	EMERGENCY LIGHT	019		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
019EML062	EMERGENCY LIGHT	019		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
019EML063	EMERGENCY LIGHT	019		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
019EML064	EMERGENCY LIGHT	019		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
019EML065	EMERGENCY LIGHT	019		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
019EML066	EMERGENCY LIGHT	019		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
019EML067	EMERGENCY LIGHT	019		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
019EML068	EMERGENCY LIGHT	019		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
020EML001	EMERGENCY LIGHT	020		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
020EML002	EMERGENCY LIGHT	020		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
020EML003	EMERGENCY LIGHT	020		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
020EML004	EMERGENCY LIGHT	020		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
020EML005	EMERGENCY LIGHT	020		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
021EML001	EMERGENCY LIGHT	021		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
021EML002	EMERGENCY LIGHT	021		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
021EML003	EMERGENCY LIGHT	021		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
021EML004	EMERGENCY LIGHT	021		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
021EML005	EMERGENCY LIGHT	021		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
021EML006	EMERGENCY LIGHT	021		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
021EML007	EMERGENCY LIGHT	021		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
022EML001	EMERGENCY LIGHT	022		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
022EML002	EMERGENCY LIGHT	022		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
022EML003	EMERGENCY LIGHT	022		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
022EML004	EMERGENCY LIGHT	022		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
022EML005	EMERGENCY LIGHT	022		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
022EML006	EMERGENCY LIGHT	022		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
022EML007	EMERGENCY LIGHT	022		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
024EML001	EMERGENCY LIGHT	024		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
024EML002	EMERGENCY LIGHT	024		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
024EML003	EMERGENCY LIGHT	024		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
024EML004	EMERGENCY LIGHT	024		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
027EML001	EMERGENCY LIGHT	027		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT

ATTACHMENT C.12-18 EMERGENCY LIGHTING INVENTORY

EQUIPMENT NBR	EQUIPMENT NAME	BLDG	LOCATION	MANUFACTURER	MODEL	COLOR	VOLTAGE	COMPONENTS	TYPE
027EML002	EMERGENCY LIGHT	027		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
100EML001	EMERGENCY LIGHT	100		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
103EML001	EMERGENCY LIGHT	103		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
103EML002	EMERGENCY LIGHT	103		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
103EML003	EMERGENCY LIGHT	103		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
103EML004	EMERGENCY LIGHT	103		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
103EML005	EMERGENCY LIGHT	103		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
103EML006	EMERGENCY LIGHT	103		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
111EML001	EMERGENCY LIGHT	111		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
111EML002	EMERGENCY LIGHT	111		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
112EML001	EMERGENCY LIGHT	112		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
112EML002	EMERGENCY LIGHT	112		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
119EML001	EMERGENCY LIGHT	119		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
128EML001	EMERGENCY LIGHT	128		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
129EML001	EMERGENCY LIGHT	129		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
129EML002	EMERGENCY LIGHT	129		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
129EML003	EMERGENCY LIGHT	129		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
129EML004	EMERGENCY LIGHT	129		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
129EML005	EMERGENCY LIGHT	129		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
143EML001	EMERGENCY LIGHT	143		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
143EML002	EMERGENCY LIGHT	143		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
143EML003	EMERGENCY LIGHT	143		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
143EML004	EMERGENCY LIGHT	143		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
143EML005	EMERGENCY LIGHT	143		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
143EML006	EMERGENCY LIGHT	143		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
143EML007	EMERGENCY LIGHT	143		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
143EML008	EMERGENCY LIGHT	143		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
143EML009	EMERGENCY LIGHT	143		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
143EML010	EMERGENCY LIGHT	143		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
143EML011	EMERGENCY LIGHT	143		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
143EML012	EMERGENCY LIGHT	143		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
143EML013	EMERGENCY LIGHT	143		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
143EML014	EMERGENCY LIGHT	143		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
00LEML001	EMERGENCY LIGHT	L		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
00LEML002	EMERGENCY LIGHT	L		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
00MEML001	EMERGENCY LIGHT	M		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT

ATTACHMENT C.12-18 EMERGENCY LIGHTING INVENTORY

EQUIPMENT NBR	EQUIPMENT NAME	BLDG	LOCATION	MANUFACTURER	MODEL	COLOR	VOLTAGE	COMPONENTS	TYPE
00MEML002	EMERGENCY LIGHT	M		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
00MEML003	EMERGENCY LIGHT	M		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
00MEML004	EMERGENCY LIGHT	M		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
00MEML005	EMERGENCY LIGHT	M		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
00MEML006	EMERGENCY LIGHT	M		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
00MEML007	EMERGENCY LIGHT	M		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
00MEML008	EMERGENCY LIGHT	M		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT
00MEML009	EMERGENCY LIGHT	M		EMERGI-LITE	JSM-18-2	WHITE	120	2 LIGHTS @ 6-VOLTS	6-VOLT

ATTACHMENT C.12-19. EXIT LIGHT INVENTORY

ATTACHMENT C.12-19 EXIT LIGHT INVENTORY

EQUIPMENT NUMBER	EQUIPMENT NAME	BUILDING	LOCATION	BATTERY TYPE	VOLTAGE	COLOR	VIEW
001EXT001	EXIT LIGHT	001	BSMT.HALL	6-VOLT	120-VOLTS	WHITE	L.E.D.
001EXT002	EXIT LIGHT	001	BSMT.HALL	6-VOLT	120-VOLTS	WHITE	L.E.D.
001EXT003	EXIT LIGHT	001	BSMT.HALL	6-VOLT	120-VOLTS	WHITE	L.E.D.
001EXT004	EXIT LIGHT	001	BSMT.HALL	6-VOLT	120-VOLTS	WHITE	L.E.D.
001EXT005	EXIT LIGHT	001	BSMT.HALL	6-VOLT	120-VOLTS	WHITE	L.E.D.
001EXT006	EXIT LIGHT	001	BSMT.HALL	6-VOLT	120-VOLTS	WHITE	L.E.D.
001EXT007	EXIT LIGHT	001	BSMT.HALL	6-VOLT	120-VOLTS	WHITE	L.E.D.
001EXT008	EXIT LIGHT	001	115	6-VOLT	120-VOLTS	WHITE	L.E.D.
001EXT009	EXIT LIGHT	001	115	6-VOLT	120-VOLTS	WHITE	L.E.D.
001EXT010	EXIT LIGHT	001	115	6-VOLT	120-VOLTS	WHITE	L.E.D.
001EXT011	EXIT LIGHT	001	LDG.DOCK	6-VOLT	120-VOLTS	WHITE	L.E.D.
001EXT012	EXIT LIGHT	001	LDG.DOCK	6-VOLT	120-VOLTS	WHITE	L.E.D.
001EXT013	EXIT LIGHT	001	102	6-VOLT	120-VOLTS	WHITE	L.E.D.
001EXT014	EXIT LIGHT	001	118	6-VOLT	120-VOLTS	WHITE	L.E.D.
001EXT015	EXIT LIGHT	001	205	6-VOLT	120-VOLTS	WHITE	L.E.D.
001EXT016	EXIT LIGHT	001	205	6-VOLT	120-VOLTS	WHITE	L.E.D.
001EXT017	EXIT LIGHT	001	205	6-VOLT	120-VOLT	WHITE	L.E.D.
002EXT001	EXIT LIGHT	002	3RD FL HAL	6-VOLT	120-VOLTS	WHITE	L.E.D.
002EXT002	EXIT LIGHT	002	3RD FL HAL	6-VOLT	120-VOLTS	WHITE	L.E.D.
002EXT003	EXIT LIGHT	002	3RD FL HAL	6-VOLT	120-VOLTS	WHITE	L.E.D.
003EXT001	EXIT LIGHT	003	BSMT.HALL	6-VOLT	120	WHITE	L.E.D.
003EXT002	EXIT LIGHT	003	BSMT.HALL	6-VOLT	120	WHITE	L.E.D.
003EXT003	EXIT LIGHT	003	BSMT.HALL	6-VOLT	120	WHITE	L.E.D.
003EXT004	EXIT LIGHT	003	BSMT.HALL	6-VOLT	120	WHITE	L.E.D.
003EXT005	EXIT LIGHT	003	1ST FL.HAL	6-VOLT	120	WHITE	L.E.D.
003EXT006	EXIT LIGHT	003	2ND FL.HAL	6-VOLT	120	WHITE	L.E.D.
003EXT007	EXIT LIGHT	003	2ND FL.HAL	6-VOLT	120	WHITE	L.E.D.
003EXT008	EXIT LIGHT	003	3RD FL.HAL	6-VOLT	120	WHITE	L.E.D.
003EXT009	EXIT LIGHT	003	3RD FL.HAL	6-VOLT	120	WHITE	L.E.D.
003EXT010	EXIT LIGHT	003	3RD FL.HAL	6-VOLT	120	WHITE	L.E.D.
003EXT011	EXIT LIGHT	003	3RD FL.HAL	6-VOLT	120	WHITE	L.E.D.
003EXT012	EXIT LIGHT	003	3RD FL.HAL	6-VOLT	120	WHITE	L.E.D.
004EXT001	EXIT LIGHT	004	4E BSMT.	6-VOLT	120	white	L.E.D.
004EXT002	EXIT LIGHT	004	4E BSMT.	6-VOLT	120	WHITE	L.E.D.
004EXT003	EXIT LIGHT	004	4E BSMT.	6-VOLT	120	WHITE	L.E.D.
013EXT001	EXIT LIGHT	013	BSMT. HALL	6-VOLT	120	WHITE	L.E.D.
013EXT002	EXIT LIGHT	013	1ST FL.HAL	6-VOLT	120	WHITE	L.E.D.
004EXT004	EXIT LIGHT	004	4E BSMT.	6-VOLT	120	WHITE	L.E.D.
004EXT005	EXIT LIGHT	004	4E BSMT.	6-VOLT	120	WHITE	L.E.D.
004EXT006	EXIT LIGHT	004	4E BSMT.	6-VOLT	120	WHITE	L.E.D.
004EXT007	EXIT LIGHT	004	4E BSMT.	6-VOLT	120	WHITE	L.E.D.
004EXT008	EXIT LIGHT	004	4E BSMT.	6-VOLT	120	WHITE	L.E.D.
004EXT009	EXIT LIGHT	004	4E BSMT.	6-VOLT	120	WHITE	L.E.D.
004EXT010	EXIT LIGHT	004	100	6-VOLT	120	WHITE	L.E.D.
004EXT011	EXIT LIGHT	004	110	6-VOLT	120	WHITE	L.E.D.
004EXT012	EXIT LIGHT	004	S. STAIRWELL	6-VOLT	120	WHITE	L.E.D.
004EXT013	EXIT LIGHT	004	S. STAIRWELL	6-VOLT	120	WHITE	L.E.D.
004EXT014	EXIT LIGHT	004	110	6-VOLT	120	WHITE	L.E.D.
004EXT015	EXIT LIGHT	004	100	6-VOLT	120	WHITE	L.E.D.
004EXT016	EXIT LIGHT	004	100	6-VOLT	120	WHITE	L.E.D.

ATTACHMENT C.12-19 EXIT LIGHT INVENTORY

EQUIPMENT NUMBER	EQUIPMENT NAME	BUILDING	LOCATION	BATTERY TYPE	VOLTAGE	COLOR	VIEW
004EXT017	EXIT LIGHT	004	100	6-VOLT	120	WHITE	L.E.D.
004EXT018	EXIT LIGHT	004	117	6-VOLT	120	WHITE	L.E.D.
004EXT019	EXIT LIGHT	004	117	6-VOLT	120	WHITE	L.E.D.
004EXT020	EXIT LIGHT	004	117	6-VOLT	120	WHITE	L.E.D.
004EXT021	EXIT LIGHT	004	100A	6-VOLT	120	WHITE	L.E.D.
004EXT022	EXIT LIGHT	004	100A	6-VOLT	120	WHITE	L.E.D.
004EXT023	EXIT LIGHT	004	S. MEZZ.	6-VOLT	120	WHITE	L.E.D.
004EXT024	EXIT LIGHT	004	S. MEZZ.	6-VOLT	120	WHITE	L.E.D.
004EXT025	EXIT LIGHT	004	S. MEZZ.	6-VOLT	120	WHITE	L.E.D.
004EXT026	EXIT LIGHT	004	S. MEZZ.	6-VOLT	120	WHITE	L.E.D.
004EXT027	EXIT LIGHT	004	N. MEZZ.	6-VOLT	120	WHITE	L.E.D.
004EXT028	EXIT LIGHT	004	N. MEZZ.	6-VOLT	120	WHITE	L.E.D.
004EXT029	EXIT LIGHT	004	S. WALK	6-VOLT	120	WHITE	L.E.D.
004EXT030	EXIT LIGHT	004	S. WALK	6-VOLT	120	WHITE	L.E.D.
004EXT031	EXIT LIGHT	004	S. WALK	6-VOLT	120	WHITE	L.E.D.
004EXT032	EXIT LIGHT	004	S. WALK	6-VOLT	120	WHITE	L.E.D.
004EXT033	EXIT LIGHT	004	S. WALK	6-VOLT	120	WHITE	L.E.D.
004EXT034	EXIT LIGHT	004	J. BASIN	6-VOLT	120	WHITE	L.E.D.
004EXT035	EXIT LIGHT	004	J. BASIN	6-VOLT	120	WHITE	L.E.D.
004EXT036	EXIT LIGHT	004	J. BASIN	6-VOLT	120	WHITE	L.E.D.
004EXT037	EXIT LIGHT	004	CENTER WALK	6-VOLT	120	WHITE	L.E.D.
004EXT038	EXIT LIGHT	004	CENTER WALK	6-VOLT	120	WHITE	L.E.D.
004EXT039	EXIT LIGHT	004	N. WALK	6-VOLT	120	WHITE	L.E.D.
004EXT040	EXIT LIGHT	004	N. WALK	6-VOLT	120	WHITE	L.E.D.
004EXT041	EXIT LIGHT	004	N. WALK	6-VOLT	120	WHITE	L.E.D.
004EXT042	EXIT LIGHT	004	N. WALK	6-VOLT	120	WHITE	L.E.D.
005EXT001	EXIT LIGHT	005	BSMT.	6-VOLT	120	WHITE	L.E.D.
005EXT002	EXIT LIGHT	005	1ST. FL.	6-VOLT	120	WHITE	L.E.D.
005EXT003	EXIT LIGHT	005	1ST. FL.	6-VOLT	120	WHITE	L.E.D.
005EXT004	EXIT LIGHT	005	1ST. FL.	6-VOLT	120	WHITE	L.E.D.
005EXT005	EXIT LIGHT	005	2ND. FL.	6-VOLT	120	WHITE	L.E.D.
005EXT006	EXIT LIGHT	005	2ND. FL.	6-VOLT	120	WHITE	L.E.D.
005EXT007	EXIT LIGHT	005	3RD. FL.	6-VOLT	120	WHITE	L.E.D.
005EXT008	EXIT LIGHT	005	3RD. FL.	6-VOLT	120	WHITE	L.E.D.
005EXT009	EXIT LIGHT	005	3RD. FL.	6-VOLT	120	WHITE	L.E.D.
006EXT001	EXIT LIGHT	006	OFFICE	6-VOLT	120	white	L.E.D.
006EXT002	EXIT LIGHT	006	127	6-VOLT	120	white	L.E.D.
006EXT003	EXIT LIGHT	006	127	6-VOLT	120	white	L.E.D.
006EXT004	EXIT LIGHT	006	124	6-VOLT	120	white	L.E.D.
006EXT005	EXIT LIGHT	006	117	6-VOLT	120	white	L.E.D.
006EXT006	EXIT LIGHT	006	117	6-VOLT	120	white	L.E.D.
008EXT001	EXIT LIGHT	008	110	6-VOLT	120	WHITE	L.E.D.
008EXT002	EXIT LIGHT	008	HALL	6-VOLT	120	WHITE	L.E.D.
008EXT003	EXIT LIGHT	008	HALL	6-VOLT	120	WHITE	L.E.D.
008EXT004	EXIT LIGHT	008	HALL	6-VOLT	120	WHITE	L.E.D.
008EXT005	EXIT LIGHT	008	127D	6-VOLT	120	WHITE	L.E.D.
009EXT001	EXIT LIGHT	009	145	6-VOLT	120	WHITE	L.E.D.
009EXT002	EXIT LIGHT	009	145	6-VOLT	120	WHITE	L.E.D.
009EXT003	EXIT LIGHT	009	144	6-VOLT	120	WHITE	L.E.D.
009EXT004	EXIT LIGHT	009	MACH. SHOP	6-VOLT	120	WHITE	L.E.D.

ATTACHMENT C.12-19 EXIT LIGHT INVENTORY

EQUIPMENT NUMBER	EQUIPMENT NAME	BUILDING	LOCATION	BATTERY TYPE	VOLTAGE	COLOR	VIEW
009EXT005	EXIT LIGHT	009	MACH. SHOP	6-VOLT	120	WHITE	L.E.D.
009EXT006	EXIT LIGHT	009	100	6-VOLT	120	WHITE	L.E.D.
009EXT007	EXIT LIGHT	009	100	6-VOLT	120	WHITE	L.E.D.
009EXT008	EXIT LIGHT	009	HALL	6-VOLT	120	WHITE	L.E.D.
009EXT009	EXIT LIGHT	009	HALL	6-VOLT	120	WHITE	L.E.D.
009EXT010	EXIT LIGHT	009	HALL	6-VOLT	120	WHITE	L.E.D.
009EXT011	EXIT LIGHT	009	S.M. SHOP	6-VOLT	120	WHITE	L.E.D.
009EXT012	EXIT LIGHT	009	WELD. SHOP	6-VOLT	120	WHITE	L.E.D.
009EXT013	EXIT LIGHT	009	112	6-VOLT	120	WHITE	L.E.D.
009EXT014	EXIT LIGHT	009	112	6-VOLT	120	WHITE	L.E.D.
009EXT015	EXIT LIGHT	009	MEZZ.	6-VOLT	120	WHITE	L.E.D.
010EXT001	EXIT LIGHT	010	BSMT.HALL	6-VOLT	120	WHITE	L.E.D.
010EXT002	EXIT LIGHT	010	2ND FL.HAL	6-VOLT	120	WHITE	L.E.D.
011EXT001	EXIT LIGHT	011		6-VOLT	120	WHITE	L.E.D.
011EXT002	EXIT LIGHT	011		6-VOLT	120	WHITE	L.E.D.
011EXT003	EXIT LIGHT	011		6-VOLT	120	WHITE	L.E.D.
011EXT004	EXIT LIGHT	011		6-VOLT	120	WHITE	L.E.D.
011EXT005	EXIT LIGHT	011		6-VOLT	120	WHITE	L.E.D.
011EXT006	EXIT LIGHT	011		6-VOLT	120	WHITE	L.E.D.
011EXT007	EXIT LIGHT	011		6-VOLT	120	WHITE	L.E.D.
011EXT008	EXIT LIGHT	011		6-VOLT	120	WHITE	L.E.D.
011EXT009	EXIT LIGHT	011		6-VOLT	120	WHITE	L.E.D.
011EXT010	EXIT LIGHT	011		6-VOLT	120	WHITE	L.E.D.
011EXT011	EXIT LIGHT	011		6-VOLT	120	WHITE	L.E.D.
012EXT001	EXIT LIGHT	012	1	6-VOLT	120	WHITE	L.E.D.
012EXT002	EXIT LIGHT	012	5	6-VOLT	120	WHITE	L.E.D.
012EXT003	EXIT LIGHT	012	100	6-VOLT	120	WHITE	L.E.D.
012EXT004	EXIT LIGHT	012	104	6-VOLT	120	WHITE	L.E.D.
016EXT001	EXIT LIGHT	016	LOWER TUNNE	6-VOLT	120	WHITE	L.E.D.
016EXT002	EXIT LIGHT	016	LOWER TUNNE	6-VOLT	120	WHITE	L.E.D.
016EXT003	EXIT LIGHT	016	LOWER TUNNE	6-VOLT	120	WHITE	L.E.D.
016EXT004	EXIT LIGHT	016	1ST.FL.HAL	6-VOLT	120	WHITE	L.E.D.
016EXT005	EXIT LIGHT	016	1ST.FL.HAL	6-VOLT	120	WHITE	L.E.D.
016EXT006	EXIT LIGHT	016	W. ENTR.	6-VOLT	120	WHITE	L.E.D.
016EXT007	EXIT LIGHT	016	STAIRWELL	6-VOLT	120	WHITE	L.E.D.
016EXT008	EXIT LIGHT	016	2ND.FL.HAL	6-VOLT	120	WHITE	L.E.D.
016EXT009	EXIT LIGHT	016	2ND.FL.HAL	6-VOLT	120	WHITE	L.E.D.
016EXT010	EXIT LIGHT	016	300	6-VOLT	120	WHITE	L.E.D.
016EXT011	EXIT LIGHT	016	300	6-VOLT	120	WHITE	L.E.D.

ATTACHMENT C.12-20. STEAM TRAP INVENTORY

ATTACHMENT C.12-20 STEAM TRAP INVENTORY

Bldg Nbr	Number of Traps	Trap ID	Bldg Nbr	Number of Traps	Trap ID	Bldg Nbr	Number of Traps	Trap ID	Bldg Nbr	Number of Traps	Trap ID	Bldg Nbr	Number of Traps	Trap ID	Bldg Nbr	Number of Traps	Trap ID	Bldg Nbr	Number of Traps	Trap ID
1	72	T-501	18	107	T-010	5	2	T-701	14	0	0	11	30	T-204	111	10	T-921	121	87	T-301
1		T-503	18		T-011	5		T-702	15	0	0	11		T-205	111		T-920	121		T-302
1		T-504	18		T-012	6	19	T-835	16	37	T-581	11		T-206	111		T-919	121		T-303
1		T-505	18		T-013	6		T-852	16		T-582	11		T-207	111		T-918	121		T-304
1		T-506	18		T-014	6		T-853	16		T-583	11		T-208	111		T-917	121		T-305
1		T-507	18		T-015	6		T-851	16		T-584	11		T-209	111		T-916	121		T-306
1		T-508	18		T-016	6		T-857	16		T-585	11		T-210	111		T-915	121		T-307
1		T-509	18		T-017	6		T-836	16		T-586	11		T-211	111		T-914	121		T-308
1		T-510	18		T-018	6		T-837	16		T-587	11		T-212	111		T-913	121		T-309
1		T-511	18		T-019	6		T-838	16		T-588	11		T-213	111		T-912	121		T-310
1		T-512	18		T-020	6		T-839	16		T-589	11		T-214	112	1	T-922	121		T-311
1		T-513	18		T-021	6		T-840	16		T-590	11		T-215	103	9	T-932	121		T-312
1		T-514	18		T-022	6		T-841	16		T-591	11		T-216	103		T-933	121		T-313
1		T-515	18		T-023	6		T-842	16		T-592	11		T-217	103		T-934	121		T-314
1		T-516	18		T-024	6		T-843	16		T-593	11		T-218	103		T-940	121		T-315
1		T-517	18		T-025	6		T-844	16		T-594	11		T-219	103		T-941	121		T-316
1		T-518	18		T-026	6		T-847	16		T-595	11		T-220	103		T-935	121		T-317
1		T-523	18		T-027	6		T-849	16		T-596	11		T-221	103		T-936	121		T-318
1		T-525	18		T-028	6		T-854	16		T-597	11		T-222	103		T-937	121		T-319
1		T-526	18		T-029	6		T-855	16		T-598	11		T-223	103		T-938	121		T-320
1		T-527	18		T-030	6		T-856	16		T-599	11		T-224	104	8	T-891	121		T-321
1		T-528	18		T-031	7	47	T-126	16		T-600	11		T-225	104		T-892	121		T-322
1		T-529	18		T-032	7		T-133	16		T-601	11		T-226	104		T-893	121		T-323
1		T-530	18		T-033	7		T-147	16		T-602	11		T-227	104		T-894	121		T-324
1		T-531	18		T-034	7		T-146	16		T-603	11		T-228	104		T-895	121		T-325
1		T-532	18		T-035	7		T-145	16		T-604	11		T-229	104		T-896	121		T-326
1		T-533	18		T-036	7		T-144	16		T-605	11		T-230	104		T-897	121		T-327
1		T-534	18		T-037	7		T-143	16		T-606	11		T-231	104		T-898	121		T-328
1		T-543	18		T-038	7		T-142	16		T-607	11		T-232				121		T-329
1		T-544	18		T-039	7		T-141	16		T-608	11		T-233				121		T-330
1		T-557	18		T-040	7		T-140	16		T-609	11	2					121		T-331
1		T-558	18		T-041	7		T-134	16		T-610							121		T-332
1		T-559	18		T-042	7		T-136	16		T-611	12	29	T-234				121		T-333
1		T-560	18		T-043	7		T-137	16		T-612	12		T-235				121		T-334
1		T-561	18		T-044	7		T-156	16		T-613	12		T-236				121		T-335
1		T-562	18		T-045	7		T-153	16		T-614	12		T-237				121		T-336

ATTACHMENT C.12-20 STEAM TRAP INVENTORY

Bldg Nbr	Number of Traps	Trap ID	Bldg Nbr	Number of Traps	Trap ID	Bldg Nbr	Number of Traps	Trap ID	Bldg Nbr	Number of Traps	Trap ID	Bldg Nbr	Number of Traps	Trap ID	Bldg Nbr	Number of Traps	Trap ID	Bldg Nbr	Number of Traps	Trap ID
1		T-563	18		T-046	7		T-151	16		T-615	12		T-238				121		T-337
1		T-564	18		T-047	7		T-150	16		T-616	12		T-239				121		T-338
1		T-565	18		T-048	7		T-154	16		T-617	12		T-240				121		T-339
1		T-566	18		T-049	7		T-149	17W	2	T-693	12		T-241				121		T-340
1		T-567	18		T-050	7		T-159	17W		T-694	12		T-242				121		T-341
1		T-568	18		T-051	7		T-160				12		T-243				121		T-342
1		T-569	18		T-052	7		T-161				12		T-244				121		T-343
1		T-570	18		T-053	7		T-162				12		T-245				121		T-344
1		T-571	18		T-054	7		T-163				12		T-246				121		T-345
1		T-572	18		T-055	7		T-158				12		T-247				121		T-346
1		T-573	18		T-056	7		T-158				12		T-248				121		T-347
1		T-574	18		T-057	7		T-176				12		T-249				121		T-348
1		T-575	18		T-058	7		T-175				12		T-250				121		T-350
1		T-576	18		T-059	7						12		T-251				121		T-351
1		T-577	18		T-060	7						12		T-252				121		T-352
2	3	T-578	18		T-061	7						12		T-253				121		T-353
2		T-579	18		T-062	7						12		T-254				121		T-354
2		T-580	18		T-063	7						12		T-255				121		T-355
3	3	No Listin	18		T-064	7						12		T-256				121		T-356
1,4,14	72	T-545	18		T-065	7		T-120				12		T-257				121		T-357
1		T-400	18	107	T-066	7		T-121				12		T-258				121		T-358
1		T-401	18		T-067	7		T-122				12		T-259				121		T-359
1		T-402	18		T-068	7		T-123				12		T-264				121		T-360
1		T-403	18		T-069	7		T-124				12		T-265				121		T-361
1		T-404	18		T-070	7		T-125				12		T-266				121		T-362
1		T-519	18		T-071	8	3	T-001				13	38	T-260				121		T-363
1		T-520	18		T-072	8		T-002				13		T-261				121		T-364
1		T-521	18		T-073	8		T-003				13		T-262				121		T-366
1		T-522	18		T-074	9	40	T-884				13		T-263				121		T-367
1		T-524	18		T-075	9		T-885				13		T-267				121		T-368
1		T-535	18		T-076	9		T-886				13		T-268				121		T-369
1		T-536	18		T-077	9		T-887				13		T-269				121		T-370
1		T-537	18		T-078	9		T-888				13		T-270				121		T-371
1		T-538	18		T-079	9		T-889				13		T-271				121		T-372
1		T-539	18		T-080	9		T-890				13		T-272				121		T-373
1		T-540	18		T-081	9		T-874				13		T-273				121		T-374

ATTACHMENT C.12-20 STEAM TRAP INVENTORY

Bldg Nbr	Number of Traps	Trap ID	Bldg Nbr	Number of Traps	Trap ID	Bldg Nbr	Number of Traps	Trap ID	Bldg Nbr	Number of Traps	Trap ID	Bldg Nbr	Number of Traps	Trap ID	Bldg Nbr	Number of Traps	Trap ID	Bldg Nbr	Number of Traps	Trap ID
1		T-541	18		T-082	9		T-875				13		T-274				121		T-375
1		T-542	18		T-083	9		T-876				13		T-275				121		T-376
1		T-546	18		T-084	9		T-877				13		T-276				121		T-377
1		T-547	18		T-085	9		T-878				13		T-277				121		T-378
1		T-548	18		T-086	9		T-879				13		T-278				121		T-379
1		T-549	18		T-087	9		T-880				13		T-279				121		T-380
1		T-550	18		T-088	9		T-881				13		T-280				121		T-381
1		T-551	18		T-089	9		T-882				13		T-281				121		T-382
1		T-552	18		T-090	9		T-883				13		T-282				121		T-383
1		T-553	18		T-091	9		T-867				13		T-283				121		T-384
1		T-554	18		T-092	9		T-868				13		T-284				121		T-385
1		T-555	18		T-093	9		T-869				13		T-285				121		T-386
1		T-556	18		T-094	9		T-870				13		T-286				121		T-387
4E/4S	130	T-762	18		T-095	9		T-871				13		T-287				121		T-388
4E/4S		T-763	18		T-096	9		T-858				13		T-288				143	13	T-899
4E/4S		T-764	18		T-097	9		T-859				13		T-289				143		T-900
4E/4S		T-765	18		T-098	9		T-860				13		T-290				143		T-901
4E/4S		T-766	18		T-099	9		T-861				13		T-291				143		T-902
4E/4S		T-767	18		T-100	9		T-862				13		T-292				143		T-903
4E/4S		T-768	18		T-101	9		T-863				13		T-293				143		T-904
4E/4S		T-769	18		T-102	9		T-864				13		T-294				143		T-905
4E/4S		T-770	18		T-103	9		T-865				13		T-295				143		T-906
4E/4S		T-771	18		T-104	9		T-866				13		T-296				143		T-907
4E/4S		T-772	18		T-105	9		T-872				13		T-297				143		T-908
4T/4W		T-703	18		T-106	9		T-873				13		T-298				143		T-909
4T/4W		T-704	18		T-107	9		No Tag				13		T-299				143		T-910
4T/4W		T-705	18		T-108	9		No Tag				13		T-300				143		T-911
4T/4W		T-706	18		T-109	9		No Tag				21	2	T-691						
4T/4W		T-707	18		T-110	9		No Tag				21		T-692						
4T/4W		T-708	18		T-111	9		No Tag												
4T/4W		T-709	18		T-112	9		No Tag												
4T/4W		T-710	18		T-113	9		No Tag												
4T/4W		T-711	18		T-114	9		No Tag												
4T/4W		T-712	18		T-115	9		No Tag												
4T/4W		T-713	18		T-116	10	5	T-846												
4T/4W		T-714	19	75	T-618	10		T-847												

ATTACHMENT C.12-20 STEAM TRAP INVENTORY

Bldg Nbr	Number of Traps	Trap ID	Bldg Nbr	Number of Traps	Trap ID	Bldg Nbr	Number of Traps	Trap ID	Bldg Nbr	Number of Traps	Trap ID	Bldg Nbr	Number of Traps	Trap ID	Bldg Nbr	Number of Traps	Trap ID	Bldg Nbr	Number of Traps	Trap ID
4T/4W		T-715	19		T-619	10		T-848												
4T/4W		T-716	19		T-620	10		T-849												
4T/4W		T-717	19		T-621	10		T-850												
4T/4W		T-718	19		T-622															
4T/4W		T-719	19		T-623															
4T/4W		T-720	19		T-624															
4T/4W		T-721	19		T-625															
4T/4W		T-722	19		T-626															
4T/4W		T-723	19		T-627															
4T/4W		T-724	19		T-628															
4T/4W		T-725	19		T-629															
4T/4W		T-726	19		T-630															
4T/4W		T-727	19		T-631															
4T/4W		T-728	19		T-632															
4T/4W		T-798	19		T-633															
4T/4W		T-799	19		T-634															
4T/4W		T-800	19		T-635															
4T/4W		T-801	19		T-636															
4T/4W		T-802	19		T-637															
4T/4W		T-803	19		T-638															
4T/4W		T-804	19		T-639															
4T/4W		T-805	19		T-640															
4T/4W		T-806	19		T-641															
4T/4W		T-807	19		T-642															
4T/4W		T-808	19		T-643															
4T/4W		T-809	19		T-644															
4T/4W		T-810	19		T-645															
4T/4W		T-811	19		T-646															
4T/4W		T-812	19		T-647															
4T/4W		T-813	19	75	T-648															
4T/4W		T-814	19		T-649															
4T/4W		T-815	19		T-650															
4T/4W		T-816	19		T-651															
4T/4W		T-817	19		T-652															
4		T-729	19		T-653															
4		T-730	19		T-654															

ATTACHMENT C.12-20 STEAM TRAP INVENTORY

Bldg Nbr	Number of Traps	Trap ID	Bldg Nbr	Number of Traps	Trap ID	Bldg Nbr	Number of Traps	Trap ID	Bldg Nbr	Number of Traps	Trap ID	Bldg Nbr	Number of Traps	Trap ID	Bldg Nbr	Number of Traps	Trap ID	Bldg Nbr	Number of Traps	Trap ID
4		T-731	19		T-655															
4		T-732	19		T-656															
4		T-733	19		T-657															
4		T-734	19		T-658															
4		T-735	19		T-659															
4		T-736	19		T-660															
4		T-737	19		T-661															
4		T-738	19		T-662															
4		T-739	19		T-663															
4		T-740	19		T-664															
4		T-741	19		T-665															
4		T-742	19		T-666															
4		T-743	19		T-667															
4		T-744	19		T-668															
4		T-745	19		T-669															
4		T-746	19		T-670															
4		T-747	19		T-671															
4		T-748	19		T-672															
4		T-749	19		T-673															
4		T-750	19		T-674															
4		T-751	19		T-675															
4		T-752	19		T-676															
4		T-753	19		T-677															
4		T-754	19		T-678															
4		T-755	19		T-679															
4		T-756	19		T-680															
4		T-757	19		T-681															
4		T-758	19		T-682															
4		T-759	19		T-683															
4		T-760	19		T-684															
4		T-818	19		T-685															
4		T-819	19		T-686															
4		T-820	19		T-687															
4		T-821	19		T-688															
4		T-826	19		T-689															
4		T-827	19		T-690															

ATTACHMENT C.12-20 STEAM TRAP INVENTORY

Bldg Nbr	Number of Traps	Trap ID	Bldg Nbr	Number of Traps	Trap ID	Bldg Nbr	Number of Traps	Trap ID	Bldg Nbr	Number of Traps	Trap ID	Bldg Nbr	Number of Traps	Trap ID	Bldg Nbr	Number of Traps	Trap ID	Bldg Nbr	Number of Traps	Trap ID
4		T-828																		
4		T-829																		
4		T-830																		
4		T-831																		
4		T-832																		
4		T-833																		
4		T-834																		
4S/4E		T-761																		
4S/4E		T-773																		
4S/4E		T-774																		
4S/4E		T-775																		
4S/4E		T-776																		
4S/4E		T-777																		
4S/4E		T-778																		
4S/4E		T-779																		
4S/4E		T-780																		
4S/4E		T-781																		
4S/4E		T-782																		
4S/4E		T-783																		
4S/4E		T-784																		
4S/4E		T-785																		
4S/4E		T-786																		
4S/4E		T-787																		
4S/4E		T-788																		
4S/4E		T-789																		
4E/4S		T-790																		
4E/4S		T-791																		
4E/4S		T-792																		
4E/4S		T-793																		
4E/4S		T-794																		
4E/4S		T-795																		
4E/4S		T-796																		
4E/4S		T-797																		
4E		T-745																		
4E		T-746																		
4E		T-748																		

ATTACHMENT C.12-20 STEAM TRAP INVENTORY

Bldg Nbr	Number of Traps	Trap ID	Bldg Nbr	Number of Traps	Trap ID	Bldg Nbr	Number of Traps	Trap ID	Bldg Nbr	Number of Traps	Trap ID	Bldg Nbr	Number of Traps	Trap ID	Bldg Nbr	Number of Traps	Trap ID	Bldg Nbr	Number of Traps	Trap ID
4E		T-749																		
4E		T-750																		
4E		T-751																		
4E		T-752																		
4E		T-753																		
4E		T-755																		
4E		T-756																		
4E		T-757																		
4E		T-758																		
4E		T-759																		
4E		T-760																		
4E		T-761																		

ATTACHMENT C.12-21. SUMP PUMP INVENTORY

ATTACHMENT C.12-21. SUMP PUMP INVENTORY

EQUIPMENT NUMBER	EQUIPMENT NAME	MODEL NUMBER	BUILDING	MOTOR HORSEPOWER	SERIAL NUMBER	LOCATION	MANUFACTURER
026SMP002	SUMP PUMP	N/A	026	1HP 11/2"	N/A	VAULT (4E)	ZOLLER
019SMP001	SUMP PUMP	1701UL2	019	1.5HP 2"		13FT TANK	WEIL
019SMP002	SUMP PUMP	1701UL2	019	1.5HP 2'		13FT TANK	WEIL
019SMP003	SUMP PUMP		019			RM C-102	WEIL SEE NAMEPLATE
019SMP004	SUMP PUMP	MW100-23 STOCK# 1N344	019	1HP 2"		RM C-102	MYERS-REPLACEMENT PARTS 1800-323-0620
019SMP005	SUMP PUMP	73302	019	1/4HP 11/4"		RM A25	CHICAGO
019SMP006	SUMP PUMP	1701UL2	019	2HP 2"		6 FT TANK	WEIL
019SMP007	SUMP PUMP	1701UL2	019	2HP 2"		6 FT TANK	WEIL
019SMP008	SUMP PUMP	1701UL2	019	2HP 2"		10FT TANK	WEIL
019SMP009	SUMP PUMP	1701UL2	019	2HP 2"		10 FT TANK	WEIL
019SMP010	SUMP PUMP	1701UL2	019	2HP 2"		10 FT TANK	WEIL
019SMP011	SUMP PUMP		019	1HP 11/2"		A15 WEST	CHICAGO
019SMP012	SUMP PUMP		019	1HP 11/2"		A15 WEST	CHICAGO
019SMP013	SUMP PUMP		019	1HP 11/2"		C03	CHICAGO
019SMP014	SUMP PUMP		019	1HP 11/2"		C03	CHICAGO
019SMP015	SUMP PUMP		019	1.5HP 2"		C3A	CHICAGO
019SMP016	SUMP PUMP		019	1.5HP 2"		C3A	CHICAGO
019SMP017	SUMP PUMP		019	1HP 11/2"		OUTS B-BAY	WEIL
019SMP018	SUMP PUMP		019	1HP 11/2"		OUTS B-BAY	WEIL
020SMP001	SUMP PUMP	N/A	020	1HP 11/2"	N/A	OUTS N PIT	HYDROMATIC
020SMP002	SUMP PUMP	N/A	020	1HP 11/2"	N/A	RM 5	ZOLLER
021SMP001	SUMP PUMP	N/A	021	1HP 11/2"	N/A	RM 116	ZOLLER
021SMP002	SUMP PUMP	N/A	021	1HP 11/2"	N/A	TOWER SUMP	N/A
121SMP002	SUMP PUMP	N/A	121	1HP 11/2"	N/A	UNDER 110A	ZOLLER
026SMP001	SUMP PUMP	N/A	026	1HP 11/2"	N/A	VAULT (4E)	ZOLLER
027SMP001	SUMP PUMP	N/A	027	1HP 11/2"	N/A	INSIDE PIT	ZOLLER
121SMP001	SUMP PUMP	N/A	121	1HP 11/2"	N/A	UNDER R103	ZOLLER
156SMP001	SUMP PUMP	N/A	156	1HP 11/2"	N/A	INSIDE BLDG	ZOLLER
187SMP001	SUMP PUMP	57703	187	1HP 3"	N/A	NEAR TOWER	WEIL
001SMP001	SUMP PUMP		001	1HP/1 1/2"		ELEV. SHAFT	ZOLLER
003SMP001	SUMP PUMP		003	1HP-1-1/2"		140' BASIN	ZOLLER
003SMP002	SUMP PUMP		003	1HP-1"		W. BASE SUMP	N/A

ATTACHMENT C.12-21. SUMP PUMP INVENTORY

EQUIPMENT NUMBER	EQUIPMENT NAME	MODEL NUMBER	BUILDING	MOTOR HORSEPOWER	SERIAL NUMBER	LOCATION	MANUFACTURER
004SMP001	SUMP PUMP		004			B28 ENTRANCE	
004SMP002	SUMP PUMP		004			B28 ENTRANCE	
006SMP001	SUMP PUMP		006	1-5HP 4"		BOILER RM.	N/A
007SMP001	SUMP PUMP		007	1HP-11/2"		BASEMENT	ZOLLER
007SMP002	SUMP PUMP		007	1HP-11/4"		W OUTSIDE	DEMING
007SMP003	SUMP PUMP	I.D. TAGS PAINTED OVER	007	1-5HP 4"		W OUTSIDE	DEMING-NOT IN USE
008SMP001	SUMP PUMP		008	1HP 11/2"		STEAM VAULT	N/A UNDER WATER
011SMP001	SUMP PUMP	D32620C	011	1-5HP 3"		BSMT. PIT.	GOULDS
011SMP002	SUMP PUMP	D31620C	011	1-5HP 3"		BSMT. PIT.	GOULDS
011SMP003	SUMP PUMP	WS1038BHF	011	JOSEPH HEIL CO. INC.	H9940639	UND.STAIRS	GOULDS
011SMP004	SUMP PUMP	WS1038BHF	011	JOSEPH HEIL CO. INC.	H9940639	UND.STAIRS	GOULDS
012SMP001	SUMP PUMP	D384 3" DISCHARGE	012	1-5HP 3"		BSMT.RM.3A	ZOLLER
012SMP002	SUMP PUMP	D384 3" DISCHARGE	012	1-5HP 3"		BSMT.RM.3A	ZOLLER
012SMP003	SUMP PUMP	48163	012	1-5HP 3"		RM# 3A	AURORA
012SMP004	SUMP PUMP	48163	012	2HP 3"		RM# 3A	AURORA
013SMP001	SUMP PUMP		013			OUTSIDE PIT	WEIL
013SMP002	SUMP PUMP		013			OUTSIDE PIT	WEIL
013SMP003	SUMP PUMP	D384 3" DISCHARGE	013	1-5HP 3"		BSMT.RM.2	ZOLLER
013SMP004	SUMP PUMP	D384 3" DISCHARGE	013	1-5HP 3"		BSMT.RM.2	ZOLLER
015SMP001	SUMP PUMP	4507-11/2	015	3/4HP 11/4"		BSMT.MECH. RM..	CRANE
015SMP002	SUMP PUMP		015	1-5HP 11/2"		HALLWAY	TEEL UNDER WATER
016SMP001	SUMP PUMP		016	1HP 11/2"		ELECTRIC RM 5	ZOLLER
017SMP001	SUMP PUMP	LB3A	017	1HP 3"		BSMT HALL	PEERLESS
017SMP002	SUMP PUMP	LB3B	017	1HP 3"		BSMT HALL	PEERLESS
010SMP001	SUMP PUMP	N/A	010	11/4"	N/A	STEAM VAULT	N/A
017SMP004	SUMP PUMP		017	1.5HP 11/2"		MANHOLE	ZOLLER
017SMP005	SUMP PUMP		017	1.5HP 4"		17E N. PIT	TSURMI
017SMP006	SUMP PUMP		017	1.5HP 4"		17E N. PIT	TSURMI
018SMP001	SUMP PUMP		018	1HP 11/2"	B-80067	GUN RANGE	PEERLESS (SUBMERSIBLE)
018SMP002	SUMP PUMP	4508	018	1HP 11/2"	6P-782252	POSITE GUN RAN	CRANE

ATTACHMENT C.12-21. SUMP PUMP INVENTORY

EQUIPMENT NUMBER	EQUIPMENT NAME	MODEL NUMBER	BUILDING	MOTOR HORSEPOWER	SERIAL NUMBER	LOCATION	MANUFACTURER
018SMP003	SUMP PUMP	88021A	018	2HP 3"		S BAS PIT	WEIL
018SMP004	SUMP PUMP	88521	018	2HP 3"		S BAS PIT	WEIL
188SMP001	SUMP PUMP	2.5-130416-1.5	188	1.5HP 2"	N/A	PIT INSIDE	WEIL
188SMP002	SUMP PUMP	2.5-130416-1.5	188	1.5HP 2"	N/A	PIT INSIDE	WEIL
018SMP005	SUMP PUMP	88023	018	1.5HP 11/2"		PHOTO PIT 4	WEIL
019SMP019	SUMP PUMP	N/A	019	1HP 2'	N/A	A15	N/A
019SMP020	SUMP PUMP	N/A	019	1-5HP 2"	N/A	A15	N/A
157SMP001	SUMP PUMP	N/A	157	1HP 11/2"	N/A	NW OUTSIDE	N/A
016SMP003	SUMP PUMP		016	1HP 11/2"		MECH RM 1	ZOLLER
016SMP002	SUMP PUMP		016	1HP 11/2"		ELECTRIC RM 5	ZOLLER
016SMP004	SUMP PUMP		016	1HP 11/2"		MECH RM 1	ZOLLER
103SSP001	SUMP PUMP	N/A	103	1/2HP	N/A	INSIDE PIT	WEIL
104SMP001	SUMP PUMP	N/A	104	1-5HP 2"	N/A	WEST IN	CHICAGO
111SMP001	SUMP PUMP		111			REAR BUILD	CHICAGO
112SMP001	SUMP PUMP		112			RESTROOM	CHICAGO
113SMP001	SUMP PUMP	N/A	113	1HP 11/2"	N/A	RESTROOM	ZOLLER
003SMP003	SUMP PUMP	WEOS11H	003	JOSEPH HEIL CO.	B9942636 PHONE# 410-796-7700	ELEV. SHAFT	GOULDS PUMP
018SMP006	SUMP PUMP	WS5034D3	018	2"	E9911224	BAS. NORTH	GOULD SUBMERSIBLE)
001SMP002	SUMP PUMP	9906139	001		SES2	PROJ.RM#1	GOULDS
003SMP004	SUMP PUMP	3872	003	JOSEPH HEIL CO.	PHONE# 410-796-7700	24"CHANNEL	GOULDS PUMP
008SMP002	SUMP PUMP	WS1038BHF	008	1/3HP-11/2"	H9940639	CRAWL SPACE	GOULDS
020SMP003	SUMP PUMP	N/A	020	1HP 11/4"	N/A	RM 5	WATCH DOG EMERGENCY

NAVAL SURFACE WARFARE CENTER
CARDEROCK DIVISION
WEST BETHESDA, MD AND PHILADELPHIA, PA
PERFORMANCE WORK STATEMENT
FOR

SECTION 13
PUBLIC WORKS
FACILITIES MAINTENANCE

SECTION C.13 INDEFINITE QUANTITY WORK

Indefinite Quantity Work is defined as maintenance, repair and alteration work requirements which are beyond the scope of service calls (work not defined in the PWS or >$2,500.00), including service call work that expands beyond the scope of a service call definition. When the Government determines the need for Service Provider performance of indefinite quantity work, the Government will provide a detailed written scope of work and request the Service Provider submit a proposal. The proposal will be used by the Government to negotiate the indefinite quantity delivery order. The Government will provide to the Service Provider a work order number, a detailed description of the required services, location of the required services, any specific material and/or procedural requirements and points of contact.

Possible scenarios where service call work expands to become ID/IQ work is described in Attachment C.13-22. Indefinite Quantity Work.

C.13.1 GENERAL INTENTION AND DESCRIPTION

The Service Provider shall furnish all labor, whether multi-trade, single trade, or subcontracted, facilities, services, equipment, tools, transportation, materials, supplies, parts and components required to perform the work as negotiated.

C.13.2 PROCEDURES

C.13.2.1 PROPOSAL

The Service Provider shall prepare a proposal when requested. Planning shall include coordination with Government Personnel and may involve a joint walk-through with the customer, the designated Government representative(s) and the Service Provider's planner and estimator. The Service Provider shall obtain appropriate drawings and/or as-built from the Engineering Section of the Facility and Model Fabrication Department as required; obtain applicable permits; and help determine the most safe, efficient and cost effective method(s) for performance of the required service.

The Service Provider shall submit the proposal within ten (10) calendar days from the request. In some cases, proposals may be required in less than ten (10) calendar days when requested by the Government Representative. The proposal shall contain the information described below.

C.13.2.1.1 Narrative

A sequential narrative of the planned job performance will be provided. It shall include any variation from the intended Government scope of work.

C.13.2.1.2 Estimated Hours

The total estimated number of hours by trade/job classification, the total material costs, and all equipment costs shall be determined by using R.S. Means database, or other commercially available estimating and software programs, to the greatest extent possible. However, if R.S. Means does not apply, use other current empirical methods, i.e., Dodge, Mitchell, etc., or technical estimating, in that order.

C.13.2.1.3 Total Labor Dollars

Estimated labor dollars shall be determined by multiplying the total estimated labor hours of each trade/job classification by the applicable DBA fixed, loaded labor rate as contained in Section B of the resultant contract.

C.13.2.1.4 Material Estimates

Material estimates which are not covered by R.S. Means shall be determined by obtaining vendor quotes. All material items exceeding $2,500.00 each, shall be accompanied by three (3) vendor quotes in order to obtain competitive pricing. The Service Provider shall not add any markup on materials.

C.13.2.1.5 Equipment Estimates

If Government furnished equipment is available, then costs for that equipment shall only include the hourly operating costs contained in R.S. Means. The rental costs shall not apply. However, if no Government furnished equipment is available, and equipment must be rented or leased, include in the estimate those costs as determined by R.S. Means.

C.13.2.1.6 Taxes

Taxes on material shall be applied at the rate the Service Provider is required to pay.

C.13.2.1.7 Freight Charges

Freight charges and taxes on those charges shall be charged at the rate the Service Provider has to pay the vendor or the shipper.

C.13.2.1.8 Material Lead Time

The Service Provider shall identify all material lead times. This material lead time shall be used for negotiation of the completion date.

Shop drawings or sketches shall be original and neatly drawn or computer generated on unlined paper. Shop drawings or sketches shall specify all pertinent information and shall include all applicable measurements. Shop drawings or sketches may be used as part of the description of work i.e., “see drawings for location and measurements of trench”.

C.13.2.2 NEGOTIATION AND ORDERING OF WORK

C.13.2.2.1 Negotiation

The Service Provider’s designated representative with authority to obligate the

Contract shall negotiate with the Contracting Officer. Negotiations shall include all areas of the proposal to include costs, scope and completion date. After the total cost is negotiated and agreed upon, this total cost shall become the fixed price for the work described in the work order. The fixed price is not subject to readjustment for the actual costs incurred by the Service Provider.

C.13.2.2.2 Issuance of Task Order

The Contracting Officer will order indefinite quantity work by issuing to the Service Provider a copy of the approved scope of work and a task order (DD Form 1155) for the work described, in accordance with the "PROCEDURES FOR ISSUING ORDERS" clause in Section I.

C.13.2.3 WORK PERFORMANCE

The Service Provider shall:

C.13.2.3.1.1 Notify the Government and customer a minimum of four (4) workdays prior to commencing work. Provide the date and time services will commence, services which are being performed and the estimated completion date.

C.13.2.3.1.2 Perform work as negotiated. If, when performing the negotiated work, unforeseen site conditions or a change which is not part of the negotiated work occurs, notify the Government Representative immediately, and proceed as directed by the DGR. The Government and Service Provider shall jointly determine if there is an unforeseen site condition or a change from the negotiated work. If such is determined, the Service Provider shall develop a proposal, for the changed or additional work only, and submit to the Government Representative within two (2) workdays.

C.13.2.3.1.3 Include Indefinite Quantity Work in the Monthly Work Plan.

C.13.2.4 COMPLETION OF WORK

The Service Provider shall

C.13.2.4.1.1 Complete all work as negotiated.

C.13.2.4.1.2 Update any as-builts to include warranty data. If as-builts are not available, annotate work performed on drawings and sketches.

C.13.2.4.1.3 Notify the Government Representative that all work is complete and that the job is ready for Government inspection and acceptance.

C.13.2.4.1.4 Provide the applicable as-builts, drawings and/or sketches to the Government inspector. (Work will not be considered complete without these as-builts, drawings and/or sketches and the Facility History File being updated).

C.13.2.4.1.5 No payment will be made until all items have been completed and accepted by the DGR. If work is not completed by the negotiated completion date, the Government will assess liquidated damaged in accordance with Section E.

C.13.2.5 UNDEFINITIZED CONTRACT ACTION (UCA)

UCA's may be issued by the Government in accordance with DFAR Subpart 217.74 when the negotiation of a definitive contract action is not possible in sufficient time to

meet the Government's requirements, and the Government's interest demands the Service Provider be given a binding commitment to begin performance immediately. The Service Provider shall upon receipt of a UCA:

- Begin immediate performance of the UCA, comply with the submittal requirements as directed, and strictly comply with the expenditure limits as set forth in the UCA, unless directed otherwise by the Contracting Officer.
- Prepare and submit a proposal in accordance with Paragraph C.13.2.1.
- Perform negotiations in accordance with Paragraph C.13.2.2.
- Complete work in accordance with Paragraph C.13.2.4.

ATTACHMENT C.13-22. INDEFINITE QUANTITY WORK

ATTACHMENT 13-22
SERVICE CALL LIST OF POTENTIAL EXTENDED PROJECT REQUIREMENTS FOR IDQ WORK

Service Call Description	EXTENDED PROJECT	POTENTIAL IDQ COST	DELAY IMPACT
Water Leak - Piping	May require the replacement of several piping components to secure integrity of system. Could involve replacing carpet, ceilings, repainting, etc. to restore location to pre-existing condition.	$2.5K - $25K	Unreasonable extended loss of service to affected areas
Water Leak - Roofing	May require replacement of drain piping, roof drain, significant temporary membrane patch and other items mentioned above. Could also involve setting temporary transfer pump and monitoring water conditions to ensure roofing weight bearing capacity is not overloaded.	$2.5K - $25K	Unreasonable extended loss of space for intended mission function. Continued damage potential to affected areas.
No A/C	May require replacement of minimum 5 ton compressor, or other major component such as motor or condensing unit.. Setup of temporary units, if practical, until permanent repairs are completed would involve costs above service call limit.	$2.5K - $50K	Loss of personnel production since space temperatures would exceed allowable limits.
No Electrical Power	May require replacement of interior electrical wiring or major circuit over current protection (i.e.: circuit breaker) due to failure such as overheating, short circuit, etc.	$2.5K - $10K	Unreasonable extended loss of service to affected areas
Excessive Steam Pressure Causing High Hot Water Temperature	May require replacement of steam pressure reducing valve assembly, associated piping and valves	$2.5K - $5K	Safety concern for scalding and potential pipe rupture
Emergency Fire Response	Structural, electrical and interior damage repair includes cleanup from firefighting actions, removal and/or demolition of components	$2.5K - $25K	Unreasonable extended loss of service to affected areas

Service Call Description	EXTENDED PROJECT	POTENTIAL IDQ COST	DELAY IMPACT
	and restoration		
Emergency Storm Or Other Disaster Response	Damage control, stabilization of situation, emergency repairs to restore usability of facility spaces affected.	$2.5K - $25K	Unreasonable extended loss of service to affected areas. Potential continued damage to Government personnel, or property
Unexpected Asbestos Or Lead Remediation From Service Call	Control affected area contamination potential. Abate materials IAW Federal, State, and Navy regulations.	$2.5K - $10K	Unreasonable extended loss of service to affected areas
Minor Office Renovation	Hidden defects not readily observed prior to starting work	$2.5K - $10K	Unreasonable extended loss of space for intended mission function.