

**PATIENT CARE PROJECT MANUAL
for CONSTRUCTION MANAGER AT RISK CONTRACTS**

Amend Article 8.7.1 of the Special Conditions to read:

- 8.7.1 The University requires a minimum of four (4) bound copies and two (2) digital copies of the final installation, training, operation, maintenance and repair manuals to be turned over to the Owner's Project Manager and approved for content by the Consultant, by or before the time construction is 75% complete.

Add the following to Article 8.7 of the Special Conditions:

- 8.7.3 In addition to the above, and other provisions of the Contract notwithstanding, the University requires the following electronic submittals:
- 8.7.3.1 Operation and maintenance manuals and materials, where specified, for mechanical and electrical equipment in PDF format with each piece of equipment as a separate PDF file.
- 8.7.3.2 All test and/or certification reports.
- 8.7.3.3 Operation and maintenance data and materials for operating items other than mechanical and electrical equipment, where specified, in PDF format with each piece of equipment as a separate PDF file.
- 8.7.3.4 Complete equipment list for use with SAP software and building data for use with Whitestone maintenance software in electronic spreadsheet format. Data is to be provided in Unifomat format with the information being provided either in aggregate totals or in individual locations as noted in Attachment A – Unifomat Component List. Information is to be provided as follows (PPDMC will provide blank Excel spreadsheets in electronic form for use in compiling the information, if desired)
- 8.7.3.4.1 All materials that require preventative maintenance (PM) are listed as Individual Locations on Attachment A. The equipment list is to be provided in Excel spreadsheet format and is to include the information listed in Attachment B
- 8.7.3.4.2 Required maintenance procedure listing each work task in Excel spreadsheet format as shown in Attachment C.
- 8.7.3.4.3 Required frequency of maintenance for the work tasks outlined in 8.7.3.4.2 above and included in the Attachment C spreadsheet.
- 8.7.3.4.4 Listing of maintenance parts and items: i.e. filters, lubricants, etc. for each work task listed in 8.7.3.4.2 above.
- 8.7.3.4.5 Whitestone building information data is to be supplied in total quantities for items listed as Aggregate Totals on Attachment A. The provided information is to be in an Excel spreadsheet listing the following information: Unifomat Format Code, Component ID, Component Name, Unit of Measure, Quantity, and Installation Year. See Attachment D for an example spreadsheet.
- 8.7.4 The Construction Manager shall also provide the following:
- 8.7.4.1 Maintenance materials and spare parts required.
- 8.7.4.2 Replacement materials.
- 8.7.4.3 Special maintenance tools if required by manufacturer for proper maintenance, or if specified.
- 8.7.5 In the event the Construction Manager fails to provide these required electronic submittals prior to reaching 75% completion, it is agreed that the Owner at its sole discretion may deduct from the current and subsequent Applications for Payment an amount deemed by the Owner to be sufficient to encourage prompt compliance with this contractual requirement, until such time as acceptable O&M manuals are received.

Amend Article 10.3 of the Special Conditions to read:

10.3 With the express purpose of expediting construction and providing the opportunity for cooperation of affected parties, progress meetings will be held and attended by representatives of:

- (1) The Owner's Project Manager
- (2) The Consultant.
- (3) Construction Manager.
- (4) Subcontractors.
- (5) Others requested to attend (as deemed necessary by CPMD).
- (6) Physical Plant Division Representative
- (7) Hospital Representative
- (8) Medical Center Physical Plant Division Representative

Amend Article 25.2.1.2 of the Special Conditions to read:

25.2.1.2 SECTION OF A BUILDING OUTAGE

The Owner's Project Manager is the Construction Manager's contact with the University for requesting Utility Outages. The Owner's Project Manager will contact the proper departments and divisions within the University and receive approval from those units prior to allowing a planned outage to occur. The established standard within the University Departments and Divisions of a section of a building shall be a written request two weeks prior to outage. The written request shall include the type of utility to be interrupted, when the outage is desired, reason for outage, length of outage, and what will be affected by the outage. The Owner's Project Manager will insure that all parties affected are contacted and that a time which is least disruptive to all parties is selected. At the appointed outage time Work shall begin and proceed continuously with all required manpower until Work is complete at no added cost to the University. The Owner's Project Manager will then notify all affected departments or divisions.

The Medical Center's Physical Plan Division shall be responsible for all switching, valving, etc. required to take the affected utility out of service, and shall be responsible for returning the utility to full normal service at the completion of the outage.

Amend Article 34 of the Special Conditions to read:

ARTICLE 34 EMERGENCY VEHICLE AND FIRE TRUCK ACCESS

34.1 Access to the Medical Center Loading Dock must be maintained during construction for local fire truck access to the fire alarm annunciator panels located adjacent to the loading dock. Construction Manager shall coordinate with the local fire department that would respond to an alarm during the initial start up of construction to ensure a complete understanding of their requirements.

The following Articles are in addition to, and take precedence over the provisions of the Special conditions for the Project.

ARTICLE 42 LOADING DOCK

42.1 All demolition materials will be brought through the loading dock to the dumpster.

42.2 All new material and equipment, except for items requiring use of the front entry, shall be delivered to the main loading dock.

42.3 The loading dock shall be the primary access for construction workers. Construction workers shall use stairway near the designated elevator.

ARTICLE 43 CONSTRUCTION PATH

43.1 Elevator No. ____ **(INSERT NO.)**, as indicated in Drawings, may be used by construction workers and material access EXCEPT during the hours of _____ **(INSERT TIME)**.

43.2 All materials and equipment are to be brought into the hospital through elevator no. ____ **(INSERT NO.)**, except for large equipment and casework. Construction Manager shall identify time and schedule to allow accessing such items through _____ **(INSERT)**, and shall coordinate same with the Owner's Project Manager.

ARTICLE 44 HOSPITAL PROJECT PROCEDURE:

44.1 This Project involves part of a fully functioning Hospital and teaching facility. During the construction of the new Work and all renovation, the Hospital is to remain fully functioning. No service offered by the Hospital will be allowed to be interrupted. This will require careful scheduling and consultation with the Owner and the Consultant. The Hospital will attempt to cooperate as much as possible but their need to provide full medical care will supersede any construction aspect.

44.2 The Construction Manager shall organize his Work so that the Work shall cause a minimum of interference and disturbance to the Owner. A major portion of the Work will occur over an occupied---- **TYPE OF SPACE---**. The remaining work is above the --**TYPE OF SPACE-----**. This will require anticipation and careful scheduling of any noisy work above the area, or access through the area.

44.3 Coordination shall occur between the Construction Manager and the Owner regarding access to areas outside of the immediate designated construction areas, including access to rooms adjacent horizontal, or vertical that the Construction Manager may need to access in order to run/connect utilities. Coordination for access shall be discussed in the monthly Progress Meetings as required by Article 10 of these Special Conditions. Construction Manager shall also provide to the Owner written notice, one week prior to the anticipated need for access. Approval for access to the adjacent areas must be received by the Construction Manager, prior to final scheduling of the Work. Failure to notify the Owner of the need for access will result in the stoppage of Work in the area for which access is required until approval is obtained. Any additional cost for such stoppage will be the Construction Manager's responsibility.

44.4 No live electrical wiring, including temporary lighting, may be left exposed in areas of public or staff access.

44.5 In no instance may a corridor be blocked or its clear width reduced to less than 4'0".

44.6 "NOISY WORK": Areas to receive noisy Work above --**indicate areas of the facility---**. The Construction Manager shall utilize tools or equipment of low velocity or drilling to limit the noise generated from Work which will be disruptive to patients. Any hammer drilling and impact type tools/equipment which are to be utilized in the Work by the Construction Manager shall be strictly limited. Falling materials that damage ceilings, walls, pipes, and equipment shall become the Construction Manager's responsibility to repair and/or replace at no cost to the Owner.

44.7 The Construction Manager is hereby advised that any noisy Work which is disruptive will be required to stop upon notice from Owner's Project Manager. Construction Manager will be notified by Owner's Project Manager when noisy Work can resume. Construction Manager shall notify Owner's Project Manager 48 hours prior to the start of any noisy Work.

- Noisy work shall be performed after 6:00 p.m. and before 7:00 a.m.
- Perimeter wall construction around the Work Area shall be erected after 6:00 p.m. and before 7:00 a.m.
- All bulky materials shall be delivered after 6:00 p.m. and before 7:00 a.m.

ARTICLE 45 WORKING HOURS/ACCESS: FOR MEDICAL CENTER/HOSPITAL

45.1 Normal Work hours are defined as a period between 7:00 a.m. to 5:00 p.m., Monday through Friday. Construction Manager shall notify Owner's Project Manager one working day prior to performance of any Work for permission to do any Work during non-normal Work hours.

ARTICLE 46 SECURITY BADGES AND MEDICAL CENTER SECURITY

46.1 Security badges will be required for all construction personnel at Construction Manager's cost of \$11.00 (**Confirm Price of Badges**) each from Hospital Security. Each badge will contain a picture, name and firm name. A 30-minute training and information session will be required for all personnel applying for badges.

46.2 The Construction Manager's and subcontractors are responsible for the security of their own materials, tools, and equipment on the project site. The Owner is not responsible for theft or vandalism to any such materials, tools, or equipment. The Construction Manager shall coordinate with Medical Center Security prior to entering spaces other than Contraction Limits.

46.3 This Construction Manager shall assist in providing workers schedule to Medical Center Security personnel when it is evident his workmen will have access to unsecured areas within the building after normal work hours.

46.4 This Construction Manager shall secure the Project Limits for safety of building users working in adjacent spaces.

46.5 Any Construction Manager having a field office or job trailer shall provide a key to the Owner's Project Manager, only to be used in the case of fire or security emergency.

46.6 The Owner will provide construction cores for keying during the life of the project and permanent cores at conclusion of construction. Hardware supplier to coordinate with University Key Shop.

46.7 Security Enclosure and Lockup: Install substantial temporary enclosure around partially completed areas of construction. Provide lockable entrances to prevent unauthorized entrance, vandalism, theft, and similar violations of security.

46.8 Maintain security by limiting number of keys and restricting distribution to authorized personnel. Provide Owner with one set of keys.

ARTICLE 47 CEILING CLEARANCE

47.1 Work above ceiling: All work above an area with lay-in ceiling must be coordinated and installed so there is a minimum of 4" between the top of the ceiling grid runners and bottom of the installation. Installation shall not obstruct equipment access space or equipment removal space. Also, conduit and pipe attached to the wall must be above the 4" minimum level.

47.2 Coordination Between Trades: Request and examine all drawings and specifications pertaining to the construction before installing above ceiling work. Cooperate with all other contractors in locating piping, ductwork, conduit, openings, chases, and equipment in order to avoid conflict with any other contractor's work. Give special attention to points where ducts or piping must cross other ducts and piping, and where ducts, piping and conduit must fur into the walls and columns. Make known to other trades intended positioning of materials and intended order of work. Determine intended position of work of other trades and intended order of installation.

ARTICLE 48 METAL ANCHORS

48.1 All anchoring devices utilized to secure materials to the building shall be metal. Plastic or plastic expansion components shall not be used. This shall include all fasteners for mechanical/electrical hangers.

ARTICLE 49 – HOSPITAL CONSTRUCTION CERTIFICATION

49.1 This Project involves working in a fully functioning Hospital. Individuals responsible for the work occurring on the site should be thoroughly familiar with the hazards and procedures associated with construction in the healthcare environment.

49.2 All superintendents and foremen for the Construction Manager and the Mechanical and Electrical sub-contractors shall be required to hold at least one of the certifications listed below from the associated organizations prior to working in the University of Kentucky Chandler Hospital or UK Good Samaritan Hospital. Any other trade contractor with more than four (4) individuals working on the site at one time shall have one individual who holds at least one of the certifications listed below from the associated organizations prior to working in the University of Kentucky Chandler Hospital.

Healthcare Construction Certificate - American Society for Healthcare Engineers
Certified Healthcare Contractor – Kentucky Society of Healthcare Engineers

49.3 Should the required certifications not be in effect at the date of the work order, the University project manager may, at his or her discretion, grant a grace period for the required training.

The Form of Proposal should include the following: FP-10 - Please provide a copy of a valid Healthcare certification for the listed Superintendent.

SEE THE FOLLOWING ATTACHMENTS A THROUGH E.

Attachment A – Unifomat Component List

Info Method	Unifomat	ComponentID	Component Name	UoM
Aggregate total	B1010	1240	Concrete Decking	Sq Ft
Aggregate total	B1010	1238	Metal Decking	Sq Ft
Aggregate total	B1010	1237	Wood Decking	Sq Ft
Aggregate total	B1010	1393	Wood Ramp	Sq Ft
Aggregate total	B1020	1422	Steel Roof Access Ladder	Ln Ft
Aggregate total	B2010	1631	Aluminum Louver, 1st Floor	Each
Aggregate total	B2010	1662	Aluminum Louver, 2nd Floor	Each
Aggregate total	B2010	1663	Aluminum Louver, 3rd Floor	Each
Aggregate total	B2010	1985	Aluminum Siding, Exterior, 1st Floor	Sq Ft
Aggregate total	B2010	1986	Aluminum Siding, Exterior, 2nd Floor	Sq Ft
Aggregate total	B2010	1987	Aluminum Siding, Exterior, 3rd+ Floor	Sq Ft
Aggregate total	B2010	121	Aluminum Siding, Painted, Exterior, 1st Floor	Sq Ft
Aggregate total	B2010	122	Aluminum Siding, Painted, Exterior, 2nd Floor	Sq Ft
Aggregate total	B2010	123	Aluminum Siding, Painted, Exterior, 3rd+ Floor	Sq Ft
Aggregate total	B2010	73	Clay Brick, Exterior, 1st Floor	Sq Ft
Aggregate total	B2010	74	Clay Brick, Exterior, 2nd Floor	Sq Ft
Aggregate total	B2010	75	Clay Brick, Exterior, 3rd+ Floor	Sq Ft
Aggregate total	B2010	76	Clay Brick, Painted, Exterior, 1st Floor	Sq Ft
Aggregate total	B2010	77	Clay Brick, Painted, Exterior, 2nd Floor	Sq Ft
Aggregate total	B2010	78	Clay Brick, Painted, Exterior, 3rd+ Floor	Sq Ft
Aggregate total	B2010	91	Concrete Block, Exterior, 1st Floor	Sq Ft
Aggregate total	B2010	92	Concrete Block, Exterior, 2nd Floor	Sq Ft
Aggregate total	B2010	93	Concrete Block, Exterior, 3rd+ Floor	Sq Ft
Aggregate total	B2010	94	Concrete Block, Painted, Exterior, 1st Floor	Sq Ft
Aggregate total	B2010	95	Concrete Block, Painted, Exterior, 2nd Floor	Sq Ft
Aggregate total	B2010	96	Concrete Block, Painted, Exterior, 3rd+ Floor	Sq Ft
Aggregate total	B2010	1277	Concrete, Exterior, 1st Floor	Sq Ft
Aggregate total	B2010	1975	Concrete, Exterior, 2nd Floor	Sq Ft
Aggregate total	B2010	1976	Concrete, Exterior, 3rd+ Floor	Sq Ft
Aggregate total	B2010	97	Concrete, Painted, Exterior, 1st Floor	Sq Ft
Aggregate total	B2010	98	Concrete, Painted, Exterior, 2nd Floor	Sq Ft
Aggregate total	B2010	99	Concrete, Painted, Exterior, 3rd+ Floor	Sq Ft
Aggregate total	B2010	1829	Greenhouse Structure, Glazing & Accessories	Sq Ft
Aggregate total	B2010	1830	Greenhouse Structure, Truss Frame, Plastic Walls	Sq Ft
Aggregate total	B2010	1981	Steel, Exterior, 1st Floor	Sq Ft
Aggregate total	B2010	1982	Steel, Exterior, 2nd Floor	Sq Ft
Aggregate total	B2010	1983	Steel, Exterior, 3rd+ Floor	Sq Ft
Aggregate total	B2010	130	Steel, Painted, Exterior, 1st Floor	Sq Ft
Aggregate total	B2010	131	Steel, Painted, Exterior, 2nd Floor	Sq Ft
Aggregate total	B2010	132	Steel, Painted, Exterior, 3rd+ Floor	Sq Ft

Aggregate total	B2010	10007	Sto Essence NExT, Painted, Exterior, 1st Floor	Sq Ft
Aggregate total	B2010	10008	Sto Essence NExT, Painted, Exterior, 2nd Floor	Sq Ft
Aggregate total	B2010	103	Stucco, Painted, Exterior, 1st Floor	Sq Ft
Aggregate total	B2010	104	Stucco, Painted, Exterior, 2nd Floor	Sq Ft
Aggregate total	B2010	105	Stucco, Painted, Exterior, 3rd+ Floor	Sq Ft
Aggregate total	B2010	1432	Wood Clapboard, Exterior, 1st Floor	Sq Ft
Aggregate total	B2010	1433	Wood Clapboard, Exterior, 2nd Floor	Sq Ft
Aggregate total	B2010	1434	Wood Clapboard, Exterior, 3rd+ Floor	Sq Ft
Aggregate total	B2010	1857	Wood Louver, 1st Floor	Each
Aggregate total	B2010	1858	Wood Louver, 2nd Floor	Each
Aggregate total	B2010	1859	Wood Louver, 3rd+ Floor	Each
Aggregate total	B2010	1435	Wood Shingles, 1st Floor	Sq Ft
Aggregate total	B2010	1436	Wood Shingles, 2nd Floor	Sq Ft
Aggregate total	B2010	1437	Wood Shingles, 3rd+ Floor	Sq Ft
Aggregate total	B2010	1438	Wood Shingles, Finished, 1st Floor	Sq Ft
Aggregate total	B2010	1439	Wood Shingles, Finished, 2nd Floor	Sq Ft
Aggregate total	B2010	1440	Wood Shingles, Finished, 3rd+ Floor	Sq Ft
Aggregate total	B2020	2214	Aluminum Fixed Window w/ Thermal Break, Double Glazed, Gas Filled, 12 sf, 1st Fl	Each
Aggregate total	B2020	2215	Aluminum Fixed Window w/ Thermal Break, Double Glazed, Gas Filled, 12 sf, 2nd Fl	Each
Aggregate total	B2020	2216	Aluminum Fixed Window w/ Thermal Break, Double Glazed, Gas Filled, 12 sf, 3rd Fl	Each
Aggregate total	B2020	2217	Aluminum Fixed Window w/ Thermal Break, Double Glazed, Gas Filled, 24 sf, 1st Fl	Each
Aggregate total	B2020	2218	Aluminum Fixed Window w/ Thermal Break, Triple Glazed, 12 sf, 1st Fl	Each
Aggregate total	B2020	2219	Aluminum Fixed Window w/ Thermal Break, Triple Glazed, 12 sf, 2nd Fl	Each
Aggregate total	B2020	2220	Aluminum Fixed Window w/ Thermal Break, Triple Glazed, 12 sf, 3rd+ Fl	Each
Aggregate total	B2020	2221	Aluminum Fixed Window w/ Thermal Break, Triple Glazed, 24 sf, 1st Fl	Each
Aggregate total	B2020	239	Aluminum Fixed Window, 12 sf, 1st Floor	Each
Aggregate total	B2020	240	Aluminum Fixed Window, 12 sf, 2nd Floor	Each
Aggregate total	B2020	241	Aluminum Fixed Window, 12 sf, 3rd+ Floor	Each
Aggregate total	B2020	254	Aluminum Fixed Window, 24 sf, 1st Floor	Each
Aggregate total	B2020	255	Aluminum Fixed Window, 24 sf, 2nd Floor	Each
Aggregate total	B2020	256	Aluminum Fixed Window, 24 sf, 3rd+ Floor	Each
Aggregate total	B2020	212	Aluminum Operable Window, 12 sf, 1st Floor	Each
Aggregate total	B2020	213	Aluminum Operable Window, 12 sf, 2nd Floor	Each
Aggregate total	B2020	214	Aluminum Operable Window, 12 sf, 3rd+ Floor	Each
Aggregate total	B2020	227	Aluminum Operable Window, 24 sf, 1st Floor	Each
Aggregate total	B2020	228	Aluminum Operable Window, 24 sf, 2nd Floor	Each
Aggregate total	B2020	229	Aluminum Operable Window, 24 sf, 3rd+ Floor	Each
Aggregate total	B2020	1546	Glass Block Window, 1st Floor	Sq Ft
Aggregate total	B2020	1543	Glass Block Window, 2nd Floor	Sq Ft
Aggregate total	B2020	1544	Glass Block Window, 3rd+ Floor	Sq Ft
Aggregate total	B2020	1278	Glass Curtain Wall	Sq Ft

Aggregate total	B2020	215	Steel Frame, Painted, Operable Window, 12 sf, 1st Floor	Each
Aggregate total	B2020	216	Steel Frame, Painted, Operable Window, 12 sf, 2nd Floor	Each
Aggregate total	B2020	217	Steel Frame, Painted, Operable Window, 12 sf, 3rd+ Floor	Each
Aggregate total	B2020	2073	Steel Frame, Painted, Operable Window, 24 sf, 1st Floor	Each
Aggregate total	B2020	2074	Steel Frame, Painted, Operable Window, 24 sf, 2nd Floor	Each
Aggregate total	B2020	2075	Steel Frame, Painted, Operable Window, 24 sf, 3rd+ Floor	Each
Aggregate total	B2020	1441	Wood Frame Fixed Window, 12 sf, 1st Floor	Each
Aggregate total	B2020	1442	Wood Frame Fixed Window, 12 sf, 2nd Floor	Each
Aggregate total	B2020	1443	Wood Frame Fixed Window, 12 sf, 3rd+ Floor	Each
Aggregate total	B2020	1444	Wood Frame Operable Window, 12 sf, 1st Floor	Each
Aggregate total	B2020	1445	Wood Frame Operable Window, 12 sf, 2nd Floor	Each
Aggregate total	B2020	1446	Wood Frame Operable Window, 12 sf, 3rd+ Floor	Each
Aggregate total	B2030	181	Aluminum & Glass Revolving Door	Each
Aggregate total	B2030	1863	Aluminum Double 12'x24', Painted, Roll-up Door	Each
Aggregate total	B2030	179	Aluminum Frame, Fully Glazed, Exterior Door	Each
Aggregate total	B2030	180	Aluminum Frame, Fully Glazed, Sliding Exterior Door	Each
Aggregate total	B2030	1862	Aluminum Single 12'x12', Painted, Roll-up Door	Each
Aggregate total	B2030	1864	Metal Wire Mesh Door	Each
Aggregate total	B2030	1091	Sliding, Motor-Operated, Exterior Door	Each
Aggregate total	B2030	193	Steel 20'x20', Painted, Roll-up Door	Each
Aggregate total	B2030	204	Steel Double 12'x24', Painted, Roll-up Door	Each
Aggregate total	B2030	203	Steel Single 12'x12', Painted, Roll-up Door	Each
Aggregate total	B2030	2149	Steel Single 12'x12', Painted, Roll-up Door, Automatic	Each
Aggregate total	B2030	172	Steel w/ Safety Glass, Painted, Exterior Door	Each
Aggregate total	B2030	1861	Steel, Exterior Door	Each
Aggregate total	B2030	171	Steel, Painted, Exterior Door	Each
Aggregate total	B2030	1413	Steel, Painted, Exterior Double Door	Each
Aggregate total	B2030	1088	Swinging Doors, Motor-Operated	Each
Aggregate total	B2030	1860	Wood, Solid Core, Fully Glazed, Exterior Door	Each
Aggregate total	B2030	186	Wood, Solid Core, Painted, Exterior Door	Each
Aggregate total	B2030	1865	Wrought Iron, Painted, Gate	Each
Aggregate total	B3010	617	Aluminum Gutter, Downspouts, Fittings	K Ln Ft
Aggregate total	B3010	59	Asphalt Shingle Roof	Sq Ft
Aggregate total	B3010	52	Built-up Roof	Sq Ft
Aggregate total	B3010	2222	Built-up Roof w/ Cool Reflective Coating	Sq Ft
Aggregate total	B3010	57	Clay Tile Roof	Sq Ft
Aggregate total	B3010	1405	Concrete Roof	Sq Ft
Aggregate total	B3010	2251	Cool Reflective Coating	Sq Ft
Aggregate total	B3010	1706	Fabric Awning	Sq Ft
Aggregate total	B3010	1693	Fabric Awning, 24 sf	Each
Aggregate total	B3010	1694	Fabric Awning, 32 sf	Each

Aggregate total	B3010	1282	Fiberglass Dome Roof	Sq Ft
Aggregate total	B3010	2252	Green Roof with Growing Medium, Hot Applied Rubberized Asphalt Roof	Sq Ft
Aggregate total	B3010	1697	Metal Awning	Sq Ft
Aggregate total	B3010	1695	Metal Awning, 24 sf	Each
Aggregate total	B3010	1696	Metal Awning, 32 sf	Each
Aggregate total	B3010	60	Metal Roof	Sq Ft
Aggregate total	B3010	53	Single-Ply Modified Bituminous/Thermoplastic Roof	Sq Ft
Aggregate total	B3010	54	Single-Ply Thermosetting Roof	Sq Ft
Aggregate total	B3010	1866	Slate Steep Roof	Sq Ft
Aggregate total	B3020	1283	Roof Hatch, Aluminum	Each
Aggregate total	B3020	1276	Roof Skylight, 20 sf	Each
Aggregate total	B3020	1404	Single Unit Glass Skylight	Sq Ft
Aggregate total	C1010	1625	Movable Partitions, Office, Fabric, 6'	Ln Ft
Aggregate total	C1010	1653	Toilet Partitions, Painted Metal, Overhead Braced	Each
Aggregate total	C1020	362	Aluminum, Fully Glazed, Interior Door	Each
Aggregate total	C1020	1869	Aluminum, Interior Door	Each
Aggregate total	C1020	358	Aluminum, w/ Safety Glass, Plain or Anodized, Interior Door	Each
Aggregate total	C1020	1868	Bi-Fold, Painted, Interior Door	Each
Aggregate total	C1020	1867	Steel, Interior Door	Each
Aggregate total	C1020	349	Steel, Painted, Interior Door	Each
Aggregate total	C1020	1421	Steel, Painted, Interior Double Door	Each
Aggregate total	C1020	1648	Steel, Painted, w/ Safety Glass, Interior Door	Each
Aggregate total	C1020	366	Wood, Hollow Core, Painted, Interior Door	Each
Aggregate total	C1020	367	Wood, Hollow Core, Painted, Sliding Interior Door	Each
Aggregate total	C1020	378	Wood, Lead-Lined Medical Interior Door	Each
Aggregate total	C1020	364	Wood, Painted, Fully Glazed, Interior Door	Each
Aggregate total	C1020	365	Wood, Painted, Fully Glazed, Sliding Interior Door	Each
Aggregate total	C1020	370	Wood, Solid Core w/ Safety Glass, Painted, Interior Door	Each
Aggregate total	C1020	368	Wood, Solid Core, Painted, Interior Door	Each
Aggregate total	C1020	369	Wood, Solid Core, Painted, Sliding Interior Door	Each
Aggregate total	C1030	1131	Protective Chair Rails	Ln Ft
Aggregate total	C1030	1130	Wall & Corner Guards	Ln Ft
Aggregate total	C2010	1253	Concrete, Exterior Stairs	Sq Ft
Aggregate total	C2010	410	Concrete, Interior Stairs	Sq Ft
Aggregate total	C2010	413	Masonry, Interior Stairs	Sq Ft
Aggregate total	C2010	414	Masonry, Painted, Interior Stairs	Sq Ft
Aggregate total	C2010	10009	Metal, Exterior Railing	Ln Ft
Aggregate total	C2010	1380	Metal, Exterior Stairs	Sq Ft
Aggregate total	C2010	10010	Metal, Interior Railing	Ln Ft
Aggregate total	C2010	1408	Metal, Painted, Exterior Railing	Ln Ft
Aggregate total	C2010	1254	Metal, Painted, Exterior Stairs	Sq Ft
Aggregate total	C2010	408	Metal, Painted, Interior Railing	Ln Ft

Aggregate total	C2010	412	Metal, Painted, Interior Stairs	Sq Ft
Aggregate total	C2010	1397	Wood, Interior Railing	Ln Ft
Aggregate total	C2010	1395	Wood, Interior Stairs	Sq Ft
Aggregate total	C2010	1394	Wood, Painted, Exterior Stairs	Sq Ft
Aggregate total	C2010	1255	Wood, Painted, Interior Stairs	Sq Ft
Aggregate total	C3010	1989	Acoustical Tile, Interior Wall Finish	Sq Ft
Aggregate total	C3010	464	Acoustical Tile, Painted, Interior Wall Finish	Sq Ft
Aggregate total	C3010	435	Ceramic Tile, 4"x4", Interior Wall Finish	Sq Ft
Aggregate total	C3010	432	Clay Brick, Interior Wall Finish	Sq Ft
Aggregate total	C3010	1984	Clay Brick, Painted, Interior Wall Finish	Sq Ft
Aggregate total	C3010	1978	Concrete Block, Interior Wall Finish	Sq Ft
Aggregate total	C3010	431	Concrete Block, Painted, Interior Wall Finish	Sq Ft
Aggregate total	C3010	1977	Concrete, Interior Wall Finish	Sq Ft
Aggregate total	C3010	469	Concrete, Painted, Interior Wall Finish	Sq Ft
Aggregate total	C3010	444	Fabric, Interior Wall Finish	Sq Ft
Aggregate total	C3010	2139	Fiberglass Paneling	Sq Ft
Aggregate total	C3010	1628	Gypsum Board, Interior Wall Finish	Sq Ft
Aggregate total	C3010	424	Plaster, Interior Wall Finish	Sq Ft
Aggregate total	C3010	2198	Plastic, Fiberglass Reinforced, Interior Wall Panels	Sq Ft
Aggregate total	C3010	425	Sheetrock, Stippled, Interior Wall Finish	Sq Ft
Aggregate total	C3010	426	Sheetrock, Unstippled, Interior Wall Finish	Sq Ft
Aggregate total	C3010	1980	Steel, Interior Wall Finish	Sq Ft
Aggregate total	C3010	457	Steel, Painted, Interior Wall Finish	Sq Ft
Aggregate total	C3010	442	Vinyl, Interior Wall Finish	Sq Ft
Aggregate total	C3010	443	Wallpaper, Interior Wall Finish	Sq Ft
Aggregate total	C3010	1403	Wood, Finished, Interior Paneling	Sq Ft
Aggregate total	C3010	1988	Wood, Interior Paneling	Sq Ft
Aggregate total	C3020	2204	Access Flooring w/ Laminate, Raised	Sq Ft
Aggregate total	C3020	1271	Access Flooring, Computer Room Raised	Sq Ft
Aggregate total	C3020	485	Carpet, Nylon 20 oz., High Traffic	Sq Ft
Aggregate total	C3020	486	Carpet, Nylon 20 oz., Low Traffic	Sq Ft
Aggregate total	C3020	1995	Carpet, Nylon 20 oz., Multi-Residential	Sq Ft
Aggregate total	C3020	487	Carpet, Wool 45 oz., Premium	Sq Ft
Aggregate total	C3020	471	Ceramic Tile Flooring	Sq Ft
Aggregate total	C3020	493	Concrete Flooring	Sq Ft
Aggregate total	C3020	494	Concrete, Painted Flooring	Sq Ft
Aggregate total	C3020	489	Linoleum Flooring	Sq Ft
Aggregate total	C3020	478	Maple Sports Floor	Sq Ft
Aggregate total	C3020	1285	Metal Floor Grating	Sq Ft
Aggregate total	C3020	1425	Plywood Flooring	Sq Ft
Aggregate total	C3020	472	Quarry Tile Flooring	Sq Ft
Aggregate total	C3020	491	Rubber Tile Flooring	Sq Ft

Aggregate total	C3020	495	Terrazzo Flooring	Sq Ft
Aggregate total	C3020	492	Vinyl Sheet Flooring	Sq Ft
Aggregate total	C3020	490	Vinyl Tile Flooring	Sq Ft
Aggregate total	C3020	477	Wood Parquetry Flooring	Sq Ft
Aggregate total	C3030	501	Acoustical Tile Ceiling	Sq Ft
Aggregate total	C3030	502	Acoustical Tile, Dropped Ceiling	Sq Ft
Aggregate total	C3030	2144	Acoustical Tile, Dropped, Fiberglass Ceiling	Sq Ft
Aggregate total	C3030	1828	Concrete Ceiling	Sq Ft
Aggregate total	C3030	524	Concrete, Painted Ceiling	Sq Ft
Aggregate total	C3030	1630	Gypsum Board, Finished Ceiling	Sq Ft
Aggregate total	C3030	513	Metal Ceiling	Sq Ft
Aggregate total	C3030	512	Metal, Painted Ceiling	Sq Ft
Aggregate total	C3030	497	Plaster Ceiling	Sq Ft
Aggregate total	C3030	498	Sheetrock, Stippled Ceiling	Sq Ft
Aggregate total	C3030	499	Sheetrock, Unstippled Ceiling	Sq Ft
Aggregate total	C3030	500	Textured Spray Ceiling	Sq Ft
Aggregate total	C3030	1979	Wood Ceiling	Sq Ft
Aggregate total	C3030	510	Wood, Finished Ceiling	Sq Ft
Aggregate total	D1010	2088	Bridge Crane, Overhead, 25 Ton	Each
Aggregate total	D1010	1286	Crane, Jib, Electric, 1 Ton	Each
Aggregate total	D1010	1287	Crane, Jib, Electric, 1/2 Ton	Each
Aggregate total	D1010	1690	Crane, Jib, Electric, 2 Ton	Each
Aggregate total	D1010	1691	Crane, Jib, Electric, 5 Ton	Each
Individual locations	D1010	1083	Dumbwaiter, Electric, 5 Floor	Each
Individual locations	D1010	1051	Elevator, Geared, 3,000 lbs, 3-5 Floor, 300 fpm	Each
Individual locations	D1010	528	Elevator, Geared, 3,500 lbs, 16-25 Floor, 350 fpm	Each
Individual locations	D1010	527	Elevator, Geared, 3,500 lbs, 16-25 Floor, 800 fpm	Each
Individual locations	D1010	526	Elevator, Geared, 3,500 lbs, 6-15 Floor, 350 fpm	Each
Individual locations	D1010	1288	Elevator, Geared, 5,000 lbs, 6-15 Floor, 350 fpm	Each
Individual locations	D1010	525	Elevator, Hydraulic, 2,500 lbs, 3-5 Floor, 200 fpm	Each
Individual locations	D1010	1210	Elevator, Hydraulic, 6,000 lbs, 3-5 Floor, 150 fpm	Each
Aggregate total	D1010	1289	Hoist Electric, Overhead, Chain, 3 Ton	Each
Aggregate total	D1010	1200	Platform Lifter, 5 Ton	Each
Aggregate total	D1010	1053	Wheel Chair Lift	Each
Aggregate total	D1020	529	Escalator, 16 ft rise, 100 fpm	Each
Individual locations	D1090	1086	Dock Ramp Leveler	Each
Individual locations	D1090	1085	Pneumatic Tube Station	Each
Aggregate total	D2010	549	Bathtub & Shower Enclosure, Fiberglass	Each
Aggregate total	D2010	537	Bathtub, Enameled Steel	Each
Individual locations	D2010	546	Drinking Fountain, Refrigerated	Each
Individual locations	D2010	547	Drinking Fountain, Vitreous China	Each
Individual locations	D2010	552	Emergency Eye Wash	Each

Individual locations	D2010	551	Emergency Shower Station	Each
Aggregate total	D2010	531	Flush Tank Water Closet, One Piece	Each
Aggregate total	D2010	1870	Lavatory, Enameled Steel	Each
Aggregate total	D2010	533	Lavatory, Iron, Enamel	Each
Aggregate total	D2010	534	Lavatory, Vitreous China	Each
Aggregate total	D2010	542	Service Sink, Iron, Enamel	Each
Aggregate total	D2010	555	Shower, Ceramic Tile	Each
Aggregate total	D2010	1872	Shower, Enameled Steel	Each
Aggregate total	D2010	540	Shower, Fiberglass	Each
Aggregate total	D2010	538	Shower, Terrazzo	Each
Aggregate total	D2010	543	Sink, Enameled Steel	Each
Aggregate total	D2010	1871	Sink, Iron, Enamel	Each
Aggregate total	D2010	545	Sink, Plastic	Each
Aggregate total	D2010	544	Sink, Stainless Steel	Each
Aggregate total	D2010	530	Tankless Water Closet	Each
Aggregate total	D2010	1027	Toilet & Wash Basin, Stainless Steel, Detention Fixture	Each
Aggregate total	D2010	532	Urinal, Vitreous China	Each
Aggregate total	D2020	1996	Ball Valve, 1"	Each
Aggregate total	D2020	1997	Ball Valve, 2"	Each
Aggregate total	D2020	1998	Ball Valve, 4"	Each
Aggregate total	D2020	1999	Ball Valve, 6"	Each
Individual locations	D2020	1290	Booster Pump, 1 1/2 HP	Each
Individual locations	D2020	581	Booster Pump, 10 HP	Each
Individual locations	D2020	2041	Booster Pump, 25 HP	Each
Individual locations	D2020	2042	Booster Pump, 30 HP	Each
Individual locations	D2020	580	Booster Pump, 7 1/2 HP	Each
Aggregate total	D2020	2011	Butterfly Valve, 10"	Each
Aggregate total	D2020	2012	Butterfly Valve, 12"	Each
Aggregate total	D2020	2013	Butterfly Valve, 3"	Each
Aggregate total	D2020	2014	Butterfly Valve, 36"	Each
Aggregate total	D2020	2015	Butterfly Valve, 4"	Each
Aggregate total	D2020	2016	Butterfly Valve, 6"	Each
Aggregate total	D2020	2017	Butterfly Valve, 8"	Each
Aggregate total	D2020	2019	Check Valve, 10"	Each
Aggregate total	D2020	2018	Check Valve, 3-4"	Each
Aggregate total	D2020	2020	Check Valve, 6"	Each
Individual locations	D2020	1399	Circulator Pump, 1 HP, Cold Water	Each
Individual locations	D2020	1030	Circulator Pump, 1 HP, Hot Water	Each
Individual locations	D2020	574	Circulator Pump, 1/12 HP, Cold Water	Each
Individual locations	D2020	591	Circulator Pump, 1/12 HP, Hot Water	Each
Individual locations	D2020	576	Circulator Pump, 1/2 HP, Cold Water	Each
Individual locations	D2020	593	Circulator Pump, 1/2 HP, Hot Water	Each

Individual locations	D2020	575	Circulator Pump, 1/6 HP, Cold Water	Each
Individual locations	D2020	592	Circulator Pump, 1/6 HP, Hot Water	Each
Individual locations	D2020	1692	Circulator Pump, 2 HP, Cold Water	Each
Individual locations	D2020	2058	Circulator Pump, 2 HP, Hot Water	Each
Individual locations	D2020	1406	Circulator Pump, 3 HP, Cold Water	Each
Individual locations	D2020	2059	Circulator Pump, 3 HP, Hot Water	Each
Aggregate total	D2020	2022	Flow Control Valve, Motorized, 1"	Each
Aggregate total	D2020	2023	Flow Control Valve, Motorized, 10"	Each
Aggregate total	D2020	2024	Flow Control Valve, Motorized, 12"	Each
Aggregate total	D2020	2025	Flow Control Valve, Motorized, 2"	Each
Aggregate total	D2020	2026	Flow Control Valve, Motorized, 4"	Each
Aggregate total	D2020	2027	Flow Control Valve, Motorized, 6"	Each
Aggregate total	D2020	2028	Flow Control Valve, Motorized, 8"	Each
Aggregate total	D2020	2001	Gate Valve, 10"	Each
Aggregate total	D2020	2002	Gate Valve, 12"	Each
Aggregate total	D2020	2000	Gate Valve, 2-3"	Each
Aggregate total	D2020	2003	Gate Valve, 24"	Each
Aggregate total	D2020	2004	Gate Valve, 4"	Each
Aggregate total	D2020	2005	Gate Valve, 6"	Each
Aggregate total	D2020	2006	Gate Valve, 8"	Each
Aggregate total	D2020	2021	Globe Valve, 6"	Each
Aggregate total	D2020	1873	Pipe & Fittings, 1" Copper	K Ln Ft
Aggregate total	D2020	1880	Pipe & Fittings, 1" PVC	K Ln Ft
Aggregate total	D2020	1878	Pipe & Fittings, 1" Steel	K Ln Ft
Aggregate total	D2020	1472	Pipe & Fittings, 10" Steel	K Ln Ft
Aggregate total	D2020	1461	Pipe & Fittings, 12" Steel	K Ln Ft
Aggregate total	D2020	565	Pipe & Fittings, 2" Copper, Cold Water	K Ln Ft
Aggregate total	D2020	2076	Pipe & Fittings, 2" Copper, Hot Water	K Ln Ft
Aggregate total	D2020	1888	Pipe & Fittings, 2" PVC	K Ln Ft
Aggregate total	D2020	1877	Pipe & Fittings, 2" Steel	K Ln Ft
Aggregate total	D2020	2066	Pipe & Fittings, 3" Steel	K Ln Ft
Aggregate total	D2020	566	Pipe & Fittings, 3/4" Copper, Cold Water	K Ln Ft
Aggregate total	D2020	1082	Pipe & Fittings, 3/4" Copper, High Temp.	K Ln Ft
Aggregate total	D2020	584	Pipe & Fittings, 3/4" Copper, Hot Water	K Ln Ft
Aggregate total	D2020	1549	Pipe & Fittings, 3/4" Copper, Nitrogen	K Ln Ft
Aggregate total	D2020	632	Pipe & Fittings, 3/4" Copper, Oxygen	K Ln Ft
Aggregate total	D2020	1876	Pipe & Fittings, 3/4" Steel	K Ln Ft
Aggregate total	D2020	1447	Pipe & Fittings, 4" Copper, Cold Water	K Ln Ft
Aggregate total	D2020	2077	Pipe & Fittings, 4" Copper, Hot Water	K Ln Ft
Aggregate total	D2020	1890	Pipe & Fittings, 4" PVC	K Ln Ft
Aggregate total	D2020	1169	Pipe & Fittings, 4" Steel	K Ln Ft
Aggregate total	D2020	1892	Pipe & Fittings, 6" PVC	K Ln Ft

Aggregate total	D2020	2031	Pipe & Fittings, 6" Steel	K Ln Ft
Aggregate total	D2020	1504	Pipe & Fittings, 8" Copper	K Ln Ft
Aggregate total	D2020	1886	Pipe & Fittings, 8" PVC	K Ln Ft
Aggregate total	D2020	2037	Pipe & Fittings, 8" Steel	K Ln Ft
Aggregate total	D2020	573	Pipe Insulation, Fiberglass, Cold Water	K Ln Ft
Aggregate total	D2020	1827	Pipe Insulation, Fiberglass, Heating Water/Steam	K Ln Ft
Aggregate total	D2020	590	Pipe Insulation, Fiberglass, Hot Water	K Ln Ft
Aggregate total	D2020	2029	Plug Valve, 6"	Each
Aggregate total	D2020	2030	Plug Valve, 8"	Each
Aggregate total	D2020	2010	Pressure Reducer Valve, 1"	Each
Aggregate total	D2020	2007	Pressure Reducer Valve, 1/2"	Each
Aggregate total	D2020	2009	Pressure Reducer Valve, 1-1/2"	Each
Aggregate total	D2020	2008	Pressure Reducer Valve, 2"	Each
Aggregate total	D2020	2036	Valve, Non-Drain, 10"	Each
Aggregate total	D2020	2032	Valve, Non-Drain, 2"	Each
Aggregate total	D2020	2033	Valve, Non-Drain, 4"	Each
Aggregate total	D2020	2034	Valve, Non-Drain, 6"	Each
Aggregate total	D2020	2035	Valve, Non-Drain, 8"	Each
Aggregate total	D2020	1898	Water Flow Meter, 1"	Each
Aggregate total	D2020	1292	Water Flow Meter, 2"	Each
Aggregate total	D2020	1899	Water Flow Meter, 3"	Each
Aggregate total	D2020	1293	Water Flow Meter, 3/4"	Each
Aggregate total	D2020	1294	Water Flow Meter, 4"	Each
Aggregate total	D2020	1900	Water Flow Meter, 6"	Each
Aggregate total	D2020	1901	Water Flow Meter, 8"	Each
Individual locations	D2020	2225	Water Heater, Condensing Style, High Efficiency, 120 Gal.	Each
Individual locations	D2020	2224	Water Heater, Condensing Style, High Efficiency, 52 Gal.	Each
Individual locations	D2020	2223	Water Heater, Condensing Style, High Efficiency, 70 Gal.	Each
Individual locations	D2020	1896	Water Heater, Electric, 1,000 Gal.	Each
Individual locations	D2020	1028	Water Heater, Electric, 1,500 Gal., 1,970 Gph	Each
Individual locations	D2020	1685	Water Heater, Electric, 100 Gal.	Each
Individual locations	D2020	602	Water Heater, Electric, 120 Gal.	Each
Individual locations	D2020	1678	Water Heater, Electric, 15 Gal.	Each
Individual locations	D2020	1897	Water Heater, Electric, 2,000 Gal.	Each
Individual locations	D2020	1679	Water Heater, Electric, 20 Gal.	Each
Individual locations	D2020	1680	Water Heater, Electric, 30 Gal.	Each
Individual locations	D2020	603	Water Heater, Electric, 300 Gal., 738 Gph	Each
Individual locations	D2020	1681	Water Heater, Electric, 40 Gal.	Each
Individual locations	D2020	1677	Water Heater, Electric, 5 Gal.	Each
Individual locations	D2020	606	Water Heater, Electric, 52 Gal.	Each
Individual locations	D2020	1682	Water Heater, Electric, 65 Gal.	Each
Individual locations	D2020	1683	Water Heater, Electric, 70 Gal.	Each

Individual locations	D2020	1684	Water Heater, Electric, 80 Gal.	Each
Individual locations	D2020	1895	Water Heater, Gas/Oil, 1,150 Gph	Each
Individual locations	D2020	599	Water Heater, Gas/Oil, 130 Gph	Each
Individual locations	D2020	597	Water Heater, Gas/Oil, 175 Gph	Each
Individual locations	D2020	1246	Water Heater, Gas/Oil, 25 Gph	Each
Individual locations	D2020	598	Water Heater, Gas/Oil, 275 Gph	Each
Individual locations	D2020	1893	Water Heater, Gas/Oil, 30 Gph	Each
Individual locations	D2020	600	Water Heater, Gas/Oil, 575 Gph	Each
Individual locations	D2020	595	Water Heater, Gas/Oil, 65 Gph	Each
Individual locations	D2020	1894	Water Heater, Gas/Oil, 70 Gph	Each
Individual locations	D2020	596	Water Heater, Gas/Oil, 75 Gph	Each
Individual locations	D2020	601	Water Heater, Gas/Oil, 850 Gph	Each
Individual locations	D2020	1295	Water Heater, Instant Hot	Each
Individual locations	D2020	1419	Water Softener, 1,000 Gal.	Each
Individual locations	D2020	1032	Water Softener, 10 Gal.	Each
Individual locations	D2020	1420	Water Softener, 2,000 Gal.	Each
Individual locations	D2020	612	Water Storage Tank, 1,000 Gal.	Each
Individual locations	D2020	1414	Water Storage Tank, 10,000 Gal.	Each
Individual locations	D2020	610	Water Storage Tank, 150 Gal.	Each
Individual locations	D2020	611	Water Storage Tank, 2,500 Gal.	Each
Individual locations	D2020	608	Water Storage Tank, 250 Gal.	Each
Individual locations	D2020	1415	Water Storage Tank, 5,000 Gal.	Each
Individual locations	D2020	609	Water Storage Tank, 500 Gal.	Each
Individual locations	D2020	1584	Well Pump, 1 1/2 HP	Each
Individual locations	D2020	1583	Well Pump, 15 HP	Each
Individual locations	D2020	2160	Well Pump, 30 HP	Each
Individual locations	D2030	1689	Backflow Preventer, 1"	Each
Individual locations	D2030	1974	Backflow Preventer, 10"	Each
Individual locations	D2030	1069	Backflow Preventer, 2"	Each
Individual locations	D2030	1688	Backflow Preventer, 3/4"	Each
Individual locations	D2030	1070	Backflow Preventer, 4"	Each
Individual locations	D2030	1550	Backflow Preventer, 6"	Each
Individual locations	D2030	1071	Backflow Preventer, 8"	Each
Aggregate total	D2030	1647	Floor Drain	Each
Aggregate total	D2030	1881	Pipe & Fittings, 1" PVC	K Ln Ft
Aggregate total	D2030	562	Pipe & Fittings, 10" Cast Iron	K Ln Ft
Aggregate total	D2030	1297	Pipe & Fittings, 12" Cast Iron	K Ln Ft
Aggregate total	D2030	1535	Pipe & Fittings, 18" Cast Iron	K Ln Ft
Aggregate total	D2030	1887	Pipe & Fittings, 2" PVC	K Ln Ft
Aggregate total	D2030	1401	Pipe & Fittings, 3" Cast Iron	K Ln Ft
Aggregate total	D2030	1402	Pipe & Fittings, 4" Cast Iron	K Ln Ft
Aggregate total	D2030	1889	Pipe & Fittings, 4" PVC	K Ln Ft

Aggregate total	D2030	561	Pipe & Fittings, 6" Cast Iron	K Ln Ft
Aggregate total	D2030	1891	Pipe & Fittings, 6" PVC	K Ln Ft
Aggregate total	D2030	1885	Pipe & Fittings, 8" PVC	K Ln Ft
Individual locations	D2030	560	Sewage Ejector Pump, 1 HP	Each
Individual locations	D2030	1522	Sewage Ejector Pump, 30 HP	Each
Individual locations	D2030	1580	Sewage Tank, 500 Gal.	Each
Aggregate total	D2040	1879	Pipe & Fittings, 1" PVC	K Ln Ft
Aggregate total	D2040	1882	Pipe & Fittings, 2" PVC	K Ln Ft
Aggregate total	D2040	618	Pipe & Fittings, 4" PVC	K Ln Ft
Aggregate total	D2040	1883	Pipe & Fittings, 6" PVC	K Ln Ft
Aggregate total	D2040	1884	Pipe & Fittings, 8" PVC	K Ln Ft
Aggregate total	D2040	615	Roof Drain, 2"	Each
Aggregate total	D2040	616	Roof Drain, 4-6"	Each
Individual locations	D2040	1589	Storm Water & Drain Lift Station, 2 HP	Each
Individual locations	D2040	1590	Storm Water & Drain Lift Station, 5 HP	Each
Individual locations	D2040	2043	Sump Pump, 1 HP	Each
Individual locations	D2040	1298	Sump Pump, 1/2 HP	Each
Individual locations	D2040	1562	Sump Pump, 20 HP	Each
Individual locations	D2040	619	Sump Pump, 3 HP	Each
Individual locations	D2090	1299	Air Compressor, 10 HP	Each
Individual locations	D2090	2226	Air Compressor, 15 HP	Each
Individual locations	D2090	2213	Air Compressor, 150 HP	Each
Individual locations	D2090	1300	Air Compressor, 2 HP	Each
Individual locations	D2090	1416	Air Compressor, 25 HP	Each
Individual locations	D2090	2155	Air Compressor, 250 HP, 1,000 Cfm	Each
Individual locations	D2090	1301	Air Compressor, 3/4 HP	Each
Individual locations	D2090	2044	Air Compressor, 5 HP	Each
Individual locations	D2090	2045	Air Compressor, 50 HP	Each
Individual locations	D2090	2156	Air Compressor, 500 HP, 2,000 Cfm	Each
Individual locations	D2090	2154	Air Compressor, 700 HP, 3,000 Cfm	Each
Individual locations	D2090	1031	Air Compressor, Gas, 7 1/2 HP	Each
Individual locations	D2090	625	Compressed Air Dryer	Each
Individual locations	D2090	1098	Reverse Osmosis/Deionized Water System	Each
Individual locations	D3010	1518	Fluid Storage Tank, 5,000 Gal.	Each
Individual locations	D3010	1586	Fuel Oil Day Tank, 100 Gal.	Each
Individual locations	D3010	1291	Fuel Oil Pump, 1/2 HP	Each
Individual locations	D3010	1585	Fuel Oil Pump, 10 HP	Each
Individual locations	D3010	677	Fuel Oil Pump, 1-1/2 HP	Each
Individual locations	D3010	1591	Fuel Oil Pump, 3 HP	Each
Individual locations	D3010	1592	Fuel Oil Pump, 5 HP	Each
Individual locations	D3010	1119	Generator Day Tank, 275 Gal.	Each
Individual locations	D3010	1561	Generator Day Tank, 65 Gal.	Each

Individual locations	D3010	1066	Leak Detection, Panel & Float Assembly	Each
Individual locations	D3010	2046	Oil Storage Tank, 15,000 Gal.	Each
Individual locations	D3010	1067	Oil Storage Tank, 25,000 Gal.	Each
Individual locations	D3010	2153	Oil Storage Tank, 250,000 Gal.	Each
Individual locations	D3010	641	Oil Storage Tank, 275 Gal.	Each
Individual locations	D3010	2152	Oil Storage Tank, 75,000 Gal.	Each
Individual locations	D3010	1302	Oil Storage Tank, Fiberglass, 500 Gal.	Each
Individual locations	D3010	1593	Oil Storage Tank, Steel, 1,500 Gal.	Each
Aggregate total	D3010	1903	Pipe & Fittings, 1" Copper, Fuel Oil	K Ln Ft
Aggregate total	D3010	1902	Pipe & Fittings, 1/2" Copper, Fuel Oil	K Ln Ft
Aggregate total	D3010	1176	Pipe & Fittings, 2" Copper, Fuel Oil	K Ln Ft
Aggregate total	D3010	1905	Pipe & Fittings, 2" Steel, Gas	K Ln Ft
Aggregate total	D3010	1904	Pipe & Fittings, 3" Steel, Gas	K Ln Ft
Aggregate total	D3010	638	Pipe & Fittings, 4" Steel, Gas	K Ln Ft
Aggregate total	D3010	1906	Pipe & Fittings, 6" Steel, Gas	K Ln Ft
Aggregate total	D3010	1910	Solar Panel, 3'x8'	Each
Individual locations	D3020	1137	Air Separator, 2"	Each
Individual locations	D3020	2202	Air Separator, 4"	Each
Individual locations	D3020	1303	Air Separator, 8"	Each
Aggregate total	D3020	1466	Ball Valve, 1"	Each
Aggregate total	D3020	1465	Ball Valve, 2"	Each
Aggregate total	D3020	1468	Ball Valve, 4"	Each
Aggregate total	D3020	1467	Ball Valve, 6"	Each
Individual locations	D3020	1177	Boiler Blowoff System	Each
Individual locations	D3020	678	Chemical Feed System	Each
Individual locations	D3020	1181	Circulation Pump, 10 HP, Hot Water	Each
Individual locations	D3020	1184	Circulation Pump, 100 HP, Hot Water	Each
Individual locations	D3020	1185	Circulation Pump, 150 HP, Hot Water	Each
Individual locations	D3020	1182	Circulation Pump, 25 HP, Hot Water	Each
Individual locations	D3020	719	Circulation Pump, 5 HP, Hot Water	Each
Individual locations	D3020	1180	Circulation Pump, 7 1/2 HP, Hot Water	Each
Individual locations	D3020	1183	Circulation Pump, 75 HP, Hot Water	Each
Individual locations	D3020	1136	Condensate Receiver Station, 10-15 Gal.	Each
Individual locations	D3020	1201	Condensing Heat Exchanger, Gas/Oil, 10 Mbh	Each
Individual locations	D3020	1203	Condensing Heat Exchanger, Gas/Oil, 20 Mbh	Each
Individual locations	D3020	1064	Deaerator	Each
Individual locations	D3020	1558	Electric Boiler, 24 kw	Each
Individual locations	D3020	1568	Electric Boiler, 270 kw	Each
Individual locations	D3020	1596	Electric Boiler, Steam, 1,025 Mbh	Each
Individual locations	D3020	1551	Electric Heater, Duct	Each
Individual locations	D3020	1594	Expansion Tank, 1,500 Gal.	Each
Individual locations	D3020	2050	Expansion Tank, 10 Gal.	Each

Individual locations	D3020	697	Expansion Tank, 100 Gal.	Each
Individual locations	D3020	1938	Expansion Tank, 175 Gal.	Each
Individual locations	D3020	698	Expansion Tank, 250 Gal.	Each
Individual locations	D3020	695	Expansion Tank, 30 Gal.	Each
Individual locations	D3020	1381	Expansion Tank, 400 Gal.	Each
Individual locations	D3020	696	Expansion Tank, 60 Gal.	Each
Individual locations	D3020	1595	Expansion Tank, 800 Gal.	Each
Individual locations	D3020	679	Feed Water Pump, <1,000 kbtu Boiler	Each
Individual locations	D3020	680	Feed Water Pump, 1,000-3,000 kbtu Boiler	Each
Individual locations	D3020	650	Flash Tank, 24 Gal.	Each
Individual locations	D3020	1506	Furnace, Duct, Gas/Oil, 450 Mbh	Each
Individual locations	D3020	1971	Furnace, Electric, 25 Mbh	Each
Individual locations	D3020	1972	Furnace, Electric, 50 Mbh	Each
Individual locations	D3020	1973	Furnace, Electric, 85 Mbh	Each
Individual locations	D3020	1966	Furnace, Gas, 100 Mbh	Each
Individual locations	D3020	1967	Furnace, Gas, 200 Mbh	Each
Individual locations	D3020	1965	Furnace, Gas, 25 Mbh	Each
Individual locations	D3020	2047	Furnace, Gas, 50 Mbh	Each
Individual locations	D3020	1969	Furnace, Oil, 100 Mbh	Each
Individual locations	D3020	1970	Furnace, Oil, 200 Mbh	Each
Individual locations	D3020	1968	Furnace, Oil, 55 Mbh	Each
Individual locations	D3020	665	Gas Boiler, 1,000 Mbh	Each
Individual locations	D3020	1545	Gas Boiler, 10,000 Mbh	Each
Individual locations	D3020	1379	Gas Boiler, 125 Mbh	Each
Individual locations	D3020	663	Gas Boiler, 2,000 Mbh	Each
Individual locations	D3020	667	Gas Boiler, 2,500 Mbh	Each
Individual locations	D3020	662	Gas Boiler, 250 Mbh	Each
Individual locations	D3020	2040	Gas Boiler, 300 Mbh	Each
Individual locations	D3020	1304	Gas Boiler, 4,200 Mbh	Each
Individual locations	D3020	666	Gas Boiler, 750 Mbh	Each
Individual locations	D3020	2159	Gas Boiler, Steam, 100,000 Lb/hr, 2,898 HP, 150 PSI	Each
Individual locations	D3020	1190	Gas Boiler, Steam, 24,000 Mbh	Each
Individual locations	D3020	2157	Gas Boiler, Steam, 50,000 Lb/hr, 1,449 HP, 150 PSI	Each
Individual locations	D3020	2158	Gas Boiler, Steam, 55,000 Lb/hr, 1,594 HP, 150 PSI	Each
Individual locations	D3020	1915	Gas/Oil Boiler, 2,000 Mbh	Each
Individual locations	D3020	1914	Gas/Oil Boiler, 20,000 Mbh	Each
Individual locations	D3020	2048	Gas/Oil Boiler, 40,000 Mbh	Each
Individual locations	D3020	2049	Gas/Oil Boiler, 80,000 Mbh	Each
Aggregate total	D3020	1486	Gate Valve, 10"	Each
Aggregate total	D3020	1487	Gate Valve, 12"	Each
Aggregate total	D3020	1140	Gate Valve, 2-3"	Each
Aggregate total	D3020	1533	Gate Valve, 24"	Each

Aggregate total	D3020	1448	Gate Valve, 4"	Each
Aggregate total	D3020	1449	Gate Valve, 6"	Each
Aggregate total	D3020	1485	Gate Valve, 8"	Each
Individual locations	D3020	1058	Heat Exchanger, Steam-to-Water, 130 Gpm	Each
Individual locations	D3020	1521	Heat Exchanger, Steam-to-Water, 40 Gpm	Each
Individual locations	D3020	1556	Heat Exchanger, Water-to-Water, 130 Gpm	Each
Individual locations	D3020	2203	Heat Exchanger, Water-to-Water, 380 Gpm	Each
Individual locations	D3020	1554	Heat Exchanger, Water-to-Water, 40 Gpm	Each
Individual locations	D3020	684	House Furnace, Electric 100 Mbh, 30 kw	Each
Individual locations	D3020	683	House Furnace, Electric 25 Mbh, 8 kw	Each
Individual locations	D3020	687	House Furnace, Gas/Oil, 100 Mbh	Each
Individual locations	D3020	686	House Furnace, Gas/Oil, 25 Mbh	Each
Aggregate total	D3020	2051	Metal Flue, Stainless Steel, 10"	K Ln Ft
Aggregate total	D3020	2052	Metal Flue, Stainless Steel, 16"	K Ln Ft
Aggregate total	D3020	2053	Metal Flue, Stainless Steel, 18"	K Ln Ft
Aggregate total	D3020	2054	Metal Flue, Stainless Steel, 40"	K Ln Ft
Individual locations	D3020	1913	Oil Boiler, 10,000 Mbh	Each
Individual locations	D3020	1912	Oil Boiler, 2,000 Mbh	Each
Individual locations	D3020	1911	Oil Boiler, 250 Mbh	Each
Aggregate total	D3020	2060	Pipe & Fittings, 10" Steel	K Ln Ft
Aggregate total	D3020	2063	Pipe & Fittings, 12" Steel	K Ln Ft
Aggregate total	D3020	2254	Pipe & Fittings, 2" Copper	K Ln Ft
Aggregate total	D3020	2253	Pipe & Fittings, 3/4" Copper	K Ln Ft
Aggregate total	D3020	2211	Pipe Insulation, Fiberglass, Heating Water/Steam	K Ln Ft
Aggregate total	D3020	10005	Pipe Insulation, Fiberglass, Heating Water/Steam	K Ln Ft
Individual locations	D3020	1599	Plate Heat Exchanger, 1,200 Gpm	Each
Individual locations	D3020	1597	Plate Heat Exchanger, 400 Gpm	Each
Individual locations	D3020	1598	Plate Heat Exchanger, 800 Gpm	Each
Aggregate total	D3020	1908	Pressure Reducer Valve, 1"	Each
Aggregate total	D3020	1907	Pressure Reducer Valve, 1/2"	Each
Aggregate total	D3020	1909	Pressure Reducer Valve, 1-1/2"	Each
Aggregate total	D3020	715	Pressure Reducer Valve, 2"	Each
Aggregate total	D3020	2089	Radiator, Finned, Wall	Each
Individual locations	D3020	699	Steam Converter, 200 Gph	Each
Individual locations	D3020	594	Steam Converter, Domestic Hot Water, 10 Gpm	Each
Individual locations	D3020	1117	Steam Trap, F&T, 2"	Each
Individual locations	D3020	2151	Steam Turbine 1,000 kw	Each
Individual locations	D3020	1144	Surge Tank, 1,000 Gal.	Each
Aggregate total	D3020	1492	Valve, Non-Drain, 10"	Each
Aggregate total	D3020	2055	Valve, Non-Drain, 12"	Each
Aggregate total	D3020	2056	Valve, Non-Drain, 14"	Each
Aggregate total	D3020	2057	Valve, Non-Drain, 16"	Each

Aggregate total	D3020	1488	Valve, Non-Drain, 2"	Each
Aggregate total	D3020	1489	Valve, Non-Drain, 4"	Each
Aggregate total	D3020	1490	Valve, Non-Drain, 6"	Each
Aggregate total	D3020	1491	Valve, Non-Drain, 8"	Each
Aggregate total	D3030	1574	Accumulator, Hydraulic, 1/2 CF	Each
Aggregate total	D3030	1575	Accumulator, Hydraulic, 2 CF	Each
Aggregate total	D3030	1453	Butterfly Valve, 10"	Each
Aggregate total	D3030	1454	Butterfly Valve, 12"	Each
Aggregate total	D3030	1473	Butterfly Valve, 3"	Each
Aggregate total	D3030	1526	Butterfly Valve, 36"	Each
Aggregate total	D3030	1451	Butterfly Valve, 4"	Each
Aggregate total	D3030	1469	Butterfly Valve, 6"	Each
Aggregate total	D3030	1452	Butterfly Valve, 8"	Each
Aggregate total	D3030	1483	Check Valve, 10"	Each
Aggregate total	D3030	1450	Check Valve, 3-4"	Each
Aggregate total	D3030	1460	Check Valve, 6"	Each
Individual locations	D3030	1923	Chiller, Absorption, 100 Ton	Each
Individual locations	D3030	1922	Chiller, Absorption, 350 Ton	Each
Individual locations	D3030	1924	Chiller, Absorption, 950 Ton	Each
Individual locations	D3030	1056	Chiller, Centrifugal Hermetic, Bundled w/ Condenser, 1,000 Ton	Each
Individual locations	D3030	2038	Chiller, Centrifugal Hermetic, Bundled w/ Condenser, 100 Ton	Each
Individual locations	D3030	763	Chiller, Centrifugal Hermetic, Bundled w/ Condenser, 200 Ton	Each
Individual locations	D3030	764	Chiller, Centrifugal Hermetic, Bundled w/ Condenser, 250 Ton	Each
Individual locations	D3030	761	Chiller, Centrifugal Hermetic, Bundled w/ Condenser, 300 Ton	Each
Individual locations	D3030	2061	Chiller, Centrifugal Hermetic, Bundled w/ Condenser, 500 Ton	Each
Individual locations	D3030	762	Chiller, Centrifugal Hermetic, Bundled w/ Condenser, 900 Ton	Each
Individual locations	D3030	2228	Chiller, Reciprocal Air-Cooled Hermetic w/ Scroll Compressor, 10 Ton	Each
Individual locations	D3030	2229	Chiller, Reciprocal Air-Cooled Hermetic w/ Scroll Compressor, 20 Ton	Each
Individual locations	D3030	1918	Chiller, Reciprocal Air-Cooled Hermetic, 10 Ton	Each
Individual locations	D3030	1921	Chiller, Reciprocal Air-Cooled Hermetic, 100 Ton	Each
Individual locations	D3030	1919	Chiller, Reciprocal Air-Cooled Hermetic, 15 Ton	Each
Individual locations	D3030	740	Chiller, Reciprocal Air-Cooled Hermetic, 20 Ton	Each
Individual locations	D3030	1305	Chiller, Reciprocal Air-Cooled Hermetic, 200 Ton	Each
Individual locations	D3030	2227	Chiller, Reciprocal Air-Cooled Hermetic, 300 Ton	Each
Individual locations	D3030	746	Chiller, Reciprocal Air-Cooled Hermetic, 40 Ton	Each
Individual locations	D3030	1917	Chiller, Reciprocal Air-Cooled Hermetic, 5 Ton	Each
Individual locations	D3030	1920	Chiller, Reciprocal Air-Cooled Hermetic, 50 Ton	Each
Individual locations	D3030	747	Chiller, Reciprocal Air-Cooled Hermetic, 60 Ton	Each
Individual locations	D3030	750	Chiller, Reciprocal Water-Cooled Hermetic, 100 Ton	Each
Individual locations	D3030	753	Chiller, Reciprocal Water-Cooled Hermetic, 165 Ton	Each

Individual locations	D3030	1417	Chiller, Reciprocal Water-Cooled Hermetic, 20 Ton	Each
Individual locations	D3030	1916	Chiller, Reciprocal Water-Cooled Hermetic, 200 Ton	Each
Individual locations	D3030	1272	Chiller, Reciprocal Water-Cooled Hermetic, 300 Ton	Each
Individual locations	D3030	1552	Chiller, Reciprocal Water-Cooled Hermetic, 50 Ton	Each
Individual locations	D3030	2230	Chiller, Reciprocal Water-Cooled Hermetic, 60 Ton	Each
Individual locations	D3030	1196	Circulation Pump, 10 HP, Chiller & Condenser Water	Each
Individual locations	D3030	1192	Circulation Pump, 100 HP, Chiller & Condenser Water	Each
Individual locations	D3030	1407	Circulation Pump, 15 HP, Chiller & Condenser Water	Each
Individual locations	D3030	1195	Circulation Pump, 150 HP, Chiller & Condenser Water	Each
Individual locations	D3030	2072	Circulation Pump, 200 HP, Chiller & Condenser Water	Each
Individual locations	D3030	1194	Circulation Pump, 25 HP, Chiller & Condenser Water	Each
Individual locations	D3030	1412	Circulation Pump, 350 HP, Chiller & Condenser Water	Each
Individual locations	D3030	1198	Circulation Pump, 5 HP, Chiller & Condenser Water	Each
Individual locations	D3030	1560	Circulation Pump, 50 HP, Chiller & Condenser Water	Each
Individual locations	D3030	1197	Circulation Pump, 7 1/2 HP, Chiller & Condenser Water	Each
Individual locations	D3030	1193	Circulation Pump, 75 HP, Chiller & Condenser Water	Each
Individual locations	D3030	1566	Condenser, Air Cooled, 2 Ton	Each
Individual locations	D3030	1925	Condenser, Air Cooled, 5 Ton	Each
Individual locations	D3030	1266	Condenser, Air Cooled, 7 1/2 Ton	Each
Individual locations	D3030	1927	Condenser, Air-Cooled, 100 Ton	Each
Individual locations	D3030	1191	Condenser, Air-Cooled, 20 Ton	Each
Individual locations	D3030	775	Condenser, Air-Cooled, 40 Ton	Each
Individual locations	D3030	1926	Condenser, Air-Cooled, 50 Ton	Each
Individual locations	D3030	774	Condenser, Air-Cooled, 60 Ton	Each
Individual locations	D3030	1929	Condenser, Evaporative, 100 Ton	Each
Individual locations	D3030	1928	Condenser, Evaporative, 20 Ton	Each
Individual locations	D3030	1930	Condenser, Evaporative, 300 Ton	Each
Individual locations	D3030	1057	Cooling Tower, 1,000 Ton	Each
Individual locations	D3030	780	Cooling Tower, 1,400 Ton	Each
Individual locations	D3030	777	Cooling Tower, 100 Ton	Each
Individual locations	D3030	781	Cooling Tower, 200 Ton	Each
Individual locations	D3030	783	Cooling Tower, 250 Ton	Each
Individual locations	D3030	778	Cooling Tower, 300 Ton	Each
Individual locations	D3030	1188	Cooling Tower, 50 Ton	Each
Individual locations	D3030	782	Cooling Tower, 500 Ton	Each
Individual locations	D3030	1207	Evaporative Cooler, Direct, Packaged w/ Heat, 4 Ton	Each
Individual locations	D3030	1209	Evaporative Cooler, Indirect & Direct, Packaged w/ Heat, 20 Ton	Each
Individual locations	D3030	1208	Evaporative Cooler, Indirect & Direct, Packaged w/ Heat, 4 Ton	Each
Individual locations	D3030	1206	Evaporative Cooler, Indirect, 15,000 Scfm	Each
Individual locations	D3030	1204	Evaporative Cooler, Indirect, 2,000 Scfm	Each
Individual locations	D3030	1205	Evaporative Cooler, Indirect, 5,000 Scfm	Each
Aggregate total	D3030	1464	Flow Control Valve, Motorized, 1"	Each

Aggregate total	D3030	1458	Flow Control Valve, Motorized, 10"	Each
Aggregate total	D3030	1459	Flow Control Valve, Motorized, 12"	Each
Aggregate total	D3030	1308	Flow Control Valve, Motorized, 2"	Each
Aggregate total	D3030	1307	Flow Control Valve, Motorized, 4"	Each
Aggregate total	D3030	1456	Flow Control Valve, Motorized, 6"	Each
Aggregate total	D3030	1457	Flow Control Valve, Motorized, 8"	Each
Aggregate total	D3030	1470	Globe Valve, 6"	Each
Aggregate total	D3030	1874	Pipe & Fittings, 1" Copper	K Ln Ft
Aggregate total	D3030	1709	Pipe & Fittings, 1" Steel	K Ln Ft
Aggregate total	D3030	2065	Pipe & Fittings, 10" Steel	K Ln Ft
Aggregate total	D3030	2064	Pipe & Fittings, 12" Steel	K Ln Ft
Aggregate total	D3030	1624	Pipe & Fittings, 2" Copper	K Ln Ft
Aggregate total	D3030	1613	Pipe & Fittings, 2" Steel	K Ln Ft
Aggregate total	D3030	1993	Pipe & Fittings, 3" Copper	K Ln Ft
Aggregate total	D3030	1623	Pipe & Fittings, 3" Steel	K Ln Ft
Aggregate total	D3030	1875	Pipe & Fittings, 3/4" Steel	K Ln Ft
Aggregate total	D3030	1990	Pipe & Fittings, 4" Copper	K Ln Ft
Aggregate total	D3030	1992	Pipe & Fittings, 4" Steel	K Ln Ft
Aggregate total	D3030	1994	Pipe & Fittings, 6" Copper	K Ln Ft
Aggregate total	D3030	1622	Pipe & Fittings, 6" Steel	K Ln Ft
Aggregate total	D3030	1991	Pipe & Fittings, 8" Copper	K Ln Ft
Aggregate total	D3030	1621	Pipe & Fittings, 8" Steel	K Ln Ft
Aggregate total	D3030	2212	Pipe Insulation, Fiberglass, Chilled Water	K Ln Ft
Aggregate total	D3030	10006	Pipe Insulation, Fiberglass, Chilled Water	K Ln Ft
Aggregate total	D3030	1462	Plug Valve, 6"	Each
Aggregate total	D3030	1463	Plug Valve, 8"	Each
Individual locations	D3040	1189	Air Curtain, 1,000 Cfm	Each
Individual locations	D3040	2062	Air Filters, HEPA	Each
Individual locations	D3040	886	Air Handler, Exhaust, 15,000 Cfm	Each
Individual locations	D3040	887	Air Handler, Exhaust, 20,000 Cfm	Each
Individual locations	D3040	1555	Air Handler, Exhaust, 40,000 Cfm	Each
Individual locations	D3040	810	Air Handler, Multizone, 10,000 Cfm	Each
Individual locations	D3040	814	Air Handler, Multizone, 15,000 Cfm	Each
Individual locations	D3040	813	Air Handler, Multizone, 2,500 Cfm	Each
Individual locations	D3040	815	Air Handler, Multizone, 20,000 Cfm	Each
Individual locations	D3040	811	Air Handler, Multizone, 25,000 Cfm	Each
Individual locations	D3040	1553	Air Handler, Multizone, 40,000 Cfm	Each
Individual locations	D3040	1309	Air Handler, Multizone, 5,200 Cfm	Each
Individual locations	D3040	812	Air Handler, Multizone, 50,000 Cfm	Each
Individual locations	D3040	809	Air Handler, Multizone, 6,500 Cfm	Each
Individual locations	D3040	1600	Air Handler, Multizone, 65,000 Cfm	Each
Individual locations	D3040	2231	Air Handler, Multizone, Variable Volume w/ Exhaust Recovery Wheel, 2,500 Cfm	Each

Individual locations	D3040	2232	Air Handler, Multizone, Variable Volume w/ Exhaust Recovery Wheel, 20,000 Cfm	Each
Individual locations	D3040	2233	Air Handler, Multizone, Variable Volume w/ Exhaust Recovery Wheel, 40,000 Cfm	Each
Individual locations	D3040	1310	Air Handler, Single Zone, 1,300 Cfm	Each
Individual locations	D3040	1641	Air Handler, Single Zone, 10,000 Cfm	Each
Individual locations	D3040	1059	Air Handler, Single Zone, 100,000 Cfm	Each
Individual locations	D3040	861	Air Handler, Single Zone, 120,000 Cfm	Each
Individual locations	D3040	862	Air Handler, Single Zone, 135,000 Cfm	Each
Individual locations	D3040	2078	Air Handler, Single Zone, 15,000 Cfm	Each
Individual locations	D3040	863	Air Handler, Single Zone, 150,000 Cfm	Each
Individual locations	D3040	1311	Air Handler, Single Zone, 20,000 Cfm	Each
Individual locations	D3040	2079	Air Handler, Single Zone, 30,000 Cfm	Each
Individual locations	D3040	1061	Air Handler, Single Zone, 50,000 Cfm	Each
Individual locations	D3040	855	Air Handler, Single Zone, 6,500 Cfm	Each
Individual locations	D3040	1576	Booster Fan, 120,000 Cfm	Each
Aggregate total	D3040	1199	Ceiling Panel, Radiant, Hydronic	Sq Ft
Individual locations	D3040	1313	Dehumidifier & Control, 120-150 lbs, 4,500 Cfm	Each
Aggregate total	D3040	1476	Duct Insulation, Fiberglass Blanket	Sq Ft
Aggregate total	D3040	1475	Ductwork	Lbs
Aggregate total	D3040	2067	Ductwork, Stainless Steel	Lbs
Individual locations	D3040	880	Exhaust Fan, Ceiling, 200-500 Cfm	Each
Individual locations	D3040	2080	Exhaust Fan, Centrifugal, 10,000 Cfm	Each
Individual locations	D3040	1587	Exhaust Fan, Centrifugal, 16,000 Cfm	Each
Individual locations	D3040	1577	Exhaust Fan, Centrifugal, 2,000 Cfm	Each
Individual locations	D3040	1601	Exhaust Fan, Centrifugal, 25,000 Cfm	Each
Individual locations	D3040	1605	Exhaust Fan, Centrifugal, 250 Cfm	Each
Individual locations	D3040	1588	Exhaust Fan, Centrifugal, 30,000 Cfm	Each
Individual locations	D3040	1573	Exhaust Fan, Centrifugal, 5,000 Cfm	Each
Individual locations	D3040	1602	Exhaust Fan, Centrifugal, 60,000 Cfm	Each
Individual locations	D3040	1474	Exhaust Fan, Centrifugal, 8,000 Cfm	Each
Individual locations	D3040	1578	Exhaust Fan, Centrifugal, 800 Cfm	Each
Individual locations	D3040	1540	Exhaust Fan, Propeller, 1,000 Cfm	Each
Individual locations	D3040	1495	Exhaust Fan, Propeller, 10,000 Cfm	Each
Individual locations	D3040	1541	Exhaust Fan, Propeller, 375 Cfm	Each
Individual locations	D3040	1604	Exhaust Fan, Propeller, 4,700 Cfm	Each
Individual locations	D3040	1603	Exhaust Fan, Propeller, 7,500 Cfm	Each
Individual locations	D3040	1542	Exhaust Fan, Propeller, 800 Cfm	Each
Individual locations	D3040	881	Exhaust Fan, Roof Mounted, 1,000 Cfm	Each
Individual locations	D3040	882	Exhaust Fan, Roof Mounted, 10,000 Cfm	Each
Individual locations	D3040	1934	Exhaust Fan, Roof Mounted, 2,000 Cfm	Each
Individual locations	D3040	1062	Exhaust Fan, Roof Mounted, 20,000 Cfm	Each
Individual locations	D3040	885	Exhaust Fan, Roof Mounted, 5,000 Cfm	Each
Individual locations	D3040	1935	Exhaust Fan, Roof Mounted, 8,500 Cfm	Each

Individual locations	D3040	1314	Exhaust Fan, Roof Mounted, 800 Cfm	Each
Individual locations	D3040	1038	Fan, Axial Flow, 10,000 Cfm	Each
Individual locations	D3040	1037	Fan, Axial Flow, 15,000 Cfm	Each
Individual locations	D3040	1936	Fan, Axial Flow, 3,800 Cfm	Each
Individual locations	D3040	1315	Fan, Axial Flow, 30,000 Cfm	Each
Individual locations	D3040	1039	Fan, Axial Flow, 5,000 Cfm	Each
Individual locations	D3040	1937	Fan, Axial Flow, 6,400 Cfm	Each
Individual locations	D3040	1572	Humidifier, Electric, Duct w/ Controls	Each
Individual locations	D3040	1135	Humidifier, Steam, Duct w/ Controls	Each
Aggregate total	D3040	1281	Steel Damper	Each
Aggregate total	D3040	1642	Steel Damper, Motorized	Each
Aggregate total	D3040	2234	Steel Damper, Motorized, w/ Actuator	Each
Individual locations	D3040	1033	Supply Fan, Roof Mounted, 1,000 Cfm	Each
Individual locations	D3040	1035	Supply Fan, Roof Mounted, 10,000 Cfm	Each
Individual locations	D3040	1034	Supply Fan, Roof Mounted, 5,000 Cfm	Each
Aggregate total	D3040	1428	Variable Air Volume Box, 10,000 Cfm	Each
Aggregate total	D3040	1429	Variable Air Volume Box, 25,000 Cfm	Each
Aggregate total	D3040	1430	Variable Air Volume Box, 50,000 Cfm	Each
Aggregate total	D3040	1431	Variable Air Volume Box, 65,000 Cfm	Each
Aggregate total	D3040	1146	Variable Air Volume Control Box	Each
Individual locations	D3050	1944	Air Conditioner, Computer Room, Air Cooled, 10 Ton	Each
Individual locations	D3050	1945	Air Conditioner, Computer Room, Air Cooled, 15 Ton	Each
Individual locations	D3050	1946	Air Conditioner, Computer Room, Air Cooled, 20 Ton	Each
Individual locations	D3050	2039	Air Conditioner, Computer Room, Air Cooled, 3 Ton	Each
Individual locations	D3050	1943	Air Conditioner, Computer Room, Air Cooled, 5 Ton	Each
Individual locations	D3050	1645	Air Conditioner, Computer Room, Chilled Water, 10 Ton	Each
Individual locations	D3050	1941	Air Conditioner, Computer Room, Chilled Water, 15 Ton	Each
Individual locations	D3050	1942	Air Conditioner, Computer Room, Chilled Water, 20 Ton	Each
Individual locations	D3050	2205	Air Conditioner, Computer Room, Chilled Water, 30 Ton	Each
Individual locations	D3050	1940	Air Conditioner, Computer Room, Chilled Water, 5 Ton	Each
Individual locations	D3050	1418	Air Conditioner, Indoor DX Packaged, Air Cooled, 10 Ton	Each
Individual locations	D3050	731	Air Conditioner, Indoor DX Packaged, Air Cooled, 20 Ton	Each
Individual locations	D3050	730	Air Conditioner, Indoor DX Packaged, Air Cooled, 5 Ton	Each
Individual locations	D3050	732	Air Conditioner, Indoor DX Packaged, Air Cooled, 50 Ton	Each
Individual locations	D3050	2237	Air Conditioner, Multizone, Variable Refrigerant Vol., Pre-Cond., 100 Ton	Each
Individual locations	D3050	2236	Air Conditioner, Multizone, Variable Refrigerant Vol., Pre-Cond., 50 Ton	Each
Individual locations	D3050	2235	Air Conditioner, Multizone, Variable Refrigerant Vol., Pre-Cond., 6.5 Ton	Each
Individual locations	D3050	1959	Air Conditioner, Multizone, Variable Volume, 105 Ton	Each
Individual locations	D3050	1960	Air Conditioner, Multizone, Variable Volume, 140 Ton	Each
Individual locations	D3050	1956	Air Conditioner, Multizone, Variable Volume, 50 Ton	Each
Individual locations	D3050	1957	Air Conditioner, Multizone, Variable Volume, 70 Ton	Each

Individual locations	D3050	1958	Air Conditioner, Multizone, Variable Volume, 90 Ton	Each
Individual locations	D3050	1606	Air Conditioner, Rooftop, Multizone, 10 Ton	Each
Individual locations	D3050	1951	Air Conditioner, Rooftop, Multizone, 140 Ton	Each
Individual locations	D3050	1947	Air Conditioner, Rooftop, Multizone, 15 Ton	Each
Individual locations	D3050	1607	Air Conditioner, Rooftop, Multizone, 20 Ton	Each
Individual locations	D3050	1948	Air Conditioner, Rooftop, Multizone, 25 Ton	Each
Individual locations	D3050	1608	Air Conditioner, Rooftop, Multizone, 3 Ton	Each
Individual locations	D3050	1949	Air Conditioner, Rooftop, Multizone, 40 Ton	Each
Individual locations	D3050	1609	Air Conditioner, Rooftop, Multizone, 5 Ton	Each
Individual locations	D3050	1610	Air Conditioner, Rooftop, Multizone, 50 Ton	Each
Individual locations	D3050	1950	Air Conditioner, Rooftop, Multizone, 70 Ton	Each
Individual locations	D3050	1611	Air Conditioner, Rooftop, Multizone, 7-1/2 Ton	Each
Individual locations	D3050	1316	Air Conditioner, Rooftop, Single Zone, 10 Ton	Each
Individual locations	D3050	1955	Air Conditioner, Rooftop, Single Zone, 100 Ton	Each
Individual locations	D3050	1952	Air Conditioner, Rooftop, Single Zone, 15 Ton	Each
Individual locations	D3050	734	Air Conditioner, Rooftop, Single Zone, 20 Ton	Each
Individual locations	D3050	1953	Air Conditioner, Rooftop, Single Zone, 25 Ton	Each
Individual locations	D3050	1564	Air Conditioner, Rooftop, Single Zone, 3 Ton	Each
Individual locations	D3050	733	Air Conditioner, Rooftop, Single Zone, 5 Ton	Each
Individual locations	D3050	735	Air Conditioner, Rooftop, Single Zone, 50 Ton	Each
Individual locations	D3050	1954	Air Conditioner, Rooftop, Single Zone, 60 Ton	Each
Individual locations	D3050	1563	Air Conditioner, Rooftop, Single Zone, 7-1/2 Ton	Each
Individual locations	D3050	1961	Air Conditioner, Single Zone, Variable Volume, 20 Ton	Each
Individual locations	D3050	1962	Air Conditioner, Single Zone, Variable Volume, 30 Ton	Each
Individual locations	D3050	1963	Air Conditioner, Single Zone, Variable Volume, 40 Ton	Each
Individual locations	D3050	1964	Air Conditioner, Single Zone, Variable Volume, 60 Ton	Each
Individual locations	D3050	736	Air Conditioner, Window, 1 Ton	Each
Individual locations	D3050	737	Air Conditioner, Window, 2 Ton	Each
Individual locations	D3050	1939	Air Conditioner, Window, 4 Ton	Each
Aggregate total	D3050	1250	Baseboard Radiator 10 ft.	Each
Individual locations	D3050	1264	Electric Cabinet Heater	Each
Individual locations	D3050	1008	Explosion Proof Suspended Heater	Each
Individual locations	D3050	1931	Fan Coil Unit, 1 Ton	Each
Individual locations	D3050	1933	Fan Coil Unit, 10 Ton	Each
Individual locations	D3050	1519	Fan Coil Unit, 20 Ton	Each
Individual locations	D3050	1932	Fan Coil Unit, 3 Ton	Each
Individual locations	D3050	1520	Fan Coil Unit, 30 Ton	Each
Individual locations	D3050	1617	Fan Coil Unit, 5 Ton	Each
Individual locations	D3050	1317	Fan Coil, Two-Pipe, 1,800 Cfm	Each
Individual locations	D3050	846	Fan Coil, Two-Pipe, 400 Cfm	Each
Aggregate total	D3050	1251	Finned Radiator	Each
Individual locations	D3050	872	Heat Pump, 1 Ton	Each

Individual locations	D3050	10001	Heat Pump, 1.5 Ton	Each
Individual locations	D3050	870	Heat Pump, 10 Ton	Each
Individual locations	D3050	1686	Heat Pump, 2 Ton	Each
Individual locations	D3050	871	Heat Pump, 25 Ton	Each
Individual locations	D3050	10002	Heat Pump, 3.5 Ton	Each
Individual locations	D3050	869	Heat Pump, 5 Ton	Each
Individual locations	D3050	1536	Heat Pump, 50 Ton	Each
Individual locations	D3050	1511	Heater Electric, Convector	Each
Aggregate total	D3050	1005	Radiant Heating Panel, Electric, 8 sf	Each
Aggregate total	D3050	1500	Secondary Coil, 12" x 24"	Each
Aggregate total	D3050	1501	Secondary Coil, 24" x 24"	Each
Aggregate total	D3050	1502	Secondary Coil, 24" x 36"	Each
Aggregate total	D3050	1063	Secondary Coil, 30" x 72"	Each
Aggregate total	D3050	1503	Secondary Coil, 36" x 36"	Each
Individual locations	D3050	1512	Suspended Electric Heater, Infrared	Each
Individual locations	D3050	1565	Suspended Electric Heater, Standard	Each
Individual locations	D3050	865	Suspended Heater, Hot Water, 1,200 Cfm, 55 Mbh	Each
Individual locations	D3050	866	Suspended Heater, Hot Water, 4,000 Cfm, 180 Mbh	Each
Individual locations	D3050	867	Suspended Heater, Hot Water, 8,000 Cfm, 360 Mbh	Each
Individual locations	D3050	1557	Suspended Natural Gas Heater	Each
Aggregate total	D3050	1116	Terminal Reheat Unit, 10,000 Cfm	Each
Aggregate total	D3050	1145	Terminal Reheat Unit, 25,000 Cfm	Each
Individual locations	D3050	1479	Unit Heater, 12 Mbh	Each
Individual locations	D3050	1496	Unit Heater, 250 Mbh	Each
Individual locations	D3050	1477	Unit Heater, 36 Mbh	Each
Individual locations	D3050	1539	Unit Heater, 400 Mbh	Each
Individual locations	D3050	1498	Unit Heater, 85 Mbh	Each
Individual locations	D3060	1068	Direct Digital Controls, System Points	Each
Individual locations	D3060	10012	Direct Digital Controls, System Points	Each
Individual locations	D3060	1646	HVAC Control Panel	Each
Aggregate total	D3060	1235	Thermostat	Each
Individual locations	D4010	1559	Fire Alarm Booster Pump, 1/2 HP	Each
Individual locations	D4010	988	Fire Alarm Control Panel	Each
Individual locations	D4010	1654	Fire Alarm Control Panel, Firecycle	Each
Aggregate total	D4010	636	Fire Sprinkler Head	Each
Aggregate total	D4010	1260	Fire Sprinkler System	Each
Individual locations	D4010	1099	Fire Suppression System Water Pump, 10 HP	Each
Individual locations	D4010	10004	Fire Suppression System Water Pump, 100 HP	Each
Aggregate total	D4010	1666	Pipe & Fittings, 1" Cast Iron	K Ln Ft
Aggregate total	D4010	1710	Pipe & Fittings, 1" Steel	K Ln Ft
Aggregate total	D4010	1665	Pipe & Fittings, 2" Cast Iron	K Ln Ft
Aggregate total	D4010	1708	Pipe & Fittings, 2" Steel	K Ln Ft

Aggregate total	D4010	1664	Pipe & Fittings, 3" Cast Iron	K Ln Ft
Aggregate total	D4010	1707	Pipe & Fittings, 3" Steel	K Ln Ft
Aggregate total	D4020	1258	Fire Standpipe System	Each
Individual locations	D4030	1548	Fire Doors	Each
Individual locations	D4030	1424	Fire Extinguisher	Each
Individual locations	D4030	1090	Fire Shutter 12'x12', Motor-Operated	Each
Individual locations	D4090	1142	Fire Damper	Each
Individual locations	D4090	1265	Kitchen Fire Suppression System (CO2)	Each
Individual locations	D5010	1514	Bus Duct & Fittings, AL, 800-4,000 Amp.	Ln Ft
Individual locations	D5010	1515	Bus Duct & Fittings, CU, 800-4,000 Amp.	Ln Ft
Individual locations	D5010	2068	Bus Switch, 100 Amp.	Each
Individual locations	D5010	2069	Bus Switch, 200 Amp.	Each
Individual locations	D5010	2070	Bus Switch, 400 Amp.	Each
Individual locations	D5010	2071	Bus Switch, 60 Amp.	Each
Aggregate total	D5010	10013	Cable, Copper	Ln Ft
Aggregate total	D5010	2200	Cable, Copper, 1 Gauge	Ln Ft
Aggregate total	D5010	2255	Cable, Copper, 1/0 Gauge	Ln Ft
Aggregate total	D5010	2256	Cable, Copper, 2 Gauge	Ln Ft
Aggregate total	D5010	2257	Cable, Copper, 3 Gauge	Ln Ft
Aggregate total	D5010	2258	Cable, Copper, 4 Gauge	Ln Ft
Aggregate total	D5010	1320	Circuit Breaker, 600 V, 125-400 Amp.	Each
Aggregate total	D5010	1409	Circuit Breaker, 600 V, 30-60 Amp., 3Ph.	Each
Aggregate total	D5010	1319	Circuit Breaker, 600 V, 70-100 Amp., 3 Ph.	Each
Aggregate total	D5010	1318	Circuit Breaker, Main, 240 V, 15-60 Amp., 3 Ph.	Each
Aggregate total	D5010	1321	Circuit Breaker, Main, 600 V, 1,200 Amp., 1 Ph.	Each
Aggregate total	D5010	1322	Circuit Breaker, Main, 600 V, 1,600 Amp., 1 Ph.	Each
Aggregate total	D5010	1516	Circuit Breaker, Main, 600 V, 3,000-4,000 Amp.	Each
Aggregate total	D5010	1138	Circuit Breaker, Main, 600 V, 800 Amp., 3 Ph.	Each
Aggregate total	D5010	1517	Circuit Breaker, Main, MV, 600 V, 1,600 Amp.	Each
Aggregate total	D5010	1579	Disconnect Switch, 100 Amp.	Each
Aggregate total	D5010	1569	Disconnect Switch, 200 Amp.	Each
Aggregate total	D5010	1570	Disconnect Switch, 30 Amp.	Each
Aggregate total	D5010	1581	Disconnect Switch, 400 Amp.	Each
Aggregate total	D5010	1571	Disconnect Switch, 60 Amp.	Each
Aggregate total	D5010	1582	Disconnect Switch, 600 Amp.	Each
Individual locations	D5010	1122	Distribution Panel Board	Each
Aggregate total	D5010	917	Distribution Switch, Fused, <600 V	Each
Individual locations	D5010	912	Main Switchgear, <1,200 Amp.	Each
Individual locations	D5010	913	Main Switchgear, >1,200 Amp.	Each
Individual locations	D5010	1854	Main Switchgear, 480 V, 1,000 Amp.	Each
Individual locations	D5010	1834	Main Switchgear, 480 V, 2,000 Amp.	Each
Individual locations	D5010	2206	Main Switchgear, 480 V, 4,000 Amp.	Each

Individual locations	D5010	1833	Main Switchgear, 480 V, 400 Amp.	Each
Individual locations	D5010	1853	Main Switchgear, 480 V, 800 Amp.	Each
Individual locations	D5010	1855	Main Switchgear, Double-Ended, 480 V, 2,000 Amp.	Each
Individual locations	D5010	1856	Main Switchgear, Double-Ended, 480 V, 4,000 Amp.	Each
Individual locations	D5010	1637	Main Switchgear, MV, >1,200 Amp.	Each
Individual locations	D5010	1123	Motor Control Center	Each
Individual locations	D5010	1839	Motor Control Center w/ Main Breaker, 480 V, 600 Amp.	Each
Aggregate total	D5010	1527	Motor Starter, 1,000 HP	Each
Aggregate total	D5010	1529	Motor Starter, 125-200 HP	Each
Aggregate total	D5010	953	Motor Starter, 21-50 HP, <600 V	Each
Aggregate total	D5010	954	Motor Starter, 51-75 HP, <600 V	Each
Aggregate total	D5010	952	Motor Starter, 5-20 HP, <600 V	Each
Aggregate total	D5010	1528	Motor Starter, 600 HP	Each
Individual locations	D5010	1837	Power Panel Board, 208 Y/120 V, 100 Amp.	Each
Individual locations	D5010	1848	Power Panel Board, 208 Y/120 V, 200 Amp.	Each
Individual locations	D5010	2172	Power Panel Board, 208 Y/120 V, 225 Amp	Each
Individual locations	D5010	1849	Power Panel Board, 208 Y/120 V, 400 Amp.	Each
Individual locations	D5010	2210	Power Panel Board, 480 V, 1,000 Amp.	Each
Individual locations	D5010	1850	Power Panel Board, 480 V, 100 Amp.	Each
Individual locations	D5010	1851	Power Panel Board, 480 V, 200 Amp.	Each
Individual locations	D5010	2209	Power Panel Board, 480 V, 4,000 Amp.	Each
Individual locations	D5010	1852	Power Panel Board, 480 V, 400 Amp.	Each
Individual locations	D5010	1074	Primary Transformer, Dry, <500 kVA	Each
Individual locations	D5010	916	Primary Transformer, Dry, >500 kVA	Each
Individual locations	D5010	1843	Primary Transformer, Dry, 1,000 kVA	Each
Individual locations	D5010	1840	Primary Transformer, Dry, 225 kVA	Each
Individual locations	D5010	1513	Primary Transformer, Dry, 3,000 kVA	Each
Individual locations	D5010	2208	Primary Transformer, Dry, 3,500 kVA	Each
Individual locations	D5010	1836	Primary Transformer, Dry, 300 kVA	Each
Individual locations	D5010	1841	Primary Transformer, Dry, 500 kVA	Each
Individual locations	D5010	1842	Primary Transformer, Dry, 750 kVA	Each
Individual locations	D5010	1073	Primary Transformer, Oil Filled, <500 kVA	Each
Individual locations	D5010	915	Primary Transformer, Oil Filled, >500 kVA	Each
Individual locations	D5010	1847	Primary Transformer, Oil Filled, 1,000 kVA	Each
Individual locations	D5010	1835	Primary Transformer, Oil Filled, 500 kVA	Each
Individual locations	D5010	1846	Primary Transformer, Oil Filled, 750 kVA	Each
Individual locations	D5010	1139	Safety Switch, Fused, 400 Amp., 3 Ph.	Each
Individual locations	D5010	1699	Secondary Transformer, Dry, 10 kVA	Each
Individual locations	D5010	1703	Secondary Transformer, Dry, 112-1/2 kVA	Each
Individual locations	D5010	1378	Secondary Transformer, Dry, 15 kVA	Each
Individual locations	D5010	1024	Secondary Transformer, Dry, 150 kVA	Each
Individual locations	D5010	1698	Secondary Transformer, Dry, 2 kVA	Each

Individual locations	D5010	1704	Secondary Transformer, Dry, 225 kVA	Each
Individual locations	D5010	1700	Secondary Transformer, Dry, 30 kVA	Each
Individual locations	D5010	1705	Secondary Transformer, Dry, 300 kVA	Each
Individual locations	D5010	1844	Secondary Transformer, Dry, 45 kVA	Each
Individual locations	D5010	1701	Secondary Transformer, Dry, 5 kVA	Each
Individual locations	D5010	1075	Secondary Transformer, Dry, 50 kVA	Each
Individual locations	D5010	1410	Secondary Transformer, Dry, 500 kVA	Each
Individual locations	D5010	1702	Secondary Transformer, Dry, 75 kVA	Each
Individual locations	D5010	1845	Secondary Transformer, Dry, 750 kVA	Each
Individual locations	D5010	2238	Secondary Transformer, High Efficiency, Dry, 45 kVA	Each
Individual locations	D5010	2239	Secondary Transformer, High Efficiency, Dry, 50 kVA	Each
Individual locations	D5010	919	Secondary Transformer, Oil Filled, >600 V	Each
Individual locations	D5010	1661	Switchboard, 800 Amp.	Each
Individual locations	D5010	1524	Switchgear, Indoor, <600 V	Each
Individual locations	D5010	1525	Switchgear, Indoor, 600 V	Each
Individual locations	D5010	1838	Transfer Switch, Auto, 270/280 V, 1,200 Amp.	Each
Individual locations	D5010	2207	Transfer Switch, Auto, 600 V, 1,600 Amp.	Each
Individual locations	D5010	2201	Transfer Switch, Auto, 600 V, 40 Amp.	Each
Individual locations	D5010	1054	Transfer Switch, Auto, 600 V, 400 Amp.	Each
Individual locations	D5010	1015	Transfer Switch, Auto, 600 V, 800 Amp.	Each
Individual locations	D5010	1657	Transfer Switch, HV, Auto, 600 V	Each
Individual locations	D5010	1493	Variable Frequency Drive, <600 V	Each
Aggregate total	D5020	2242	Compact Fluorescent Lighting Fixture, Digital Addressable Ballast, 32 w	Each
Aggregate total	D5020	2241	Compact Fluorescent Lighting Fixture, Magnetic Ballast, 32 w	Each
Individual locations	D5020	1256	Emergency Horn & Strobe	Each
Individual locations	D5020	967	Emergency Lighting Pack, 2 Light w/ Battery	Each
Individual locations	D5020	2240	Exit Lighting Fixture, LED	Each
Individual locations	D5020	970	Exit Lighting Fixture, w/ Battery	Each
Aggregate total	D5020	1523	Flood Light, Exterior, 100 w	Each
Aggregate total	D5020	962	Fluorescent Lighting Fixture, 160 w	Each
Aggregate total	D5020	1323	Fluorescent Lighting Fixture, 80 w	Each
Aggregate total	D5020	1257	Grounded Fault Circuit Interruptor, 15 Amp.	Each
Aggregate total	D5020	968	High Pressure Sodium Lighting Fixture, 250 w	Each
Aggregate total	D5020	1249	Incandescent Lighting Fixture, Basic, 200 w	Each
Aggregate total	D5020	960	Incandescent Lighting Fixture, Basic, 100 w	Each
Individual locations	D5020	1261	Light Dimming Panel	Each
Individual locations	D5020	2243	Light Dimming Panel, Digital Multi-Purpose Time Control Clock	Each
Individual locations	D5020	2244	Light Dimming Panel, Digital Multi-Purpose Time Control Clock & Photosensor	Each
Aggregate total	D5020	965	Metal Halide Lighting Fixture, High Bay, 1,000 w	Each
Aggregate total	D5020	966	Metal Halide Lighting Fixture, High Bay, 400 w	Each
Aggregate total	D5020	964	Metal Halide Lighting Fixture, Low Bay, 250 w	Each
Aggregate total	D5020	1076	Metal Halide Lighting Fixture, Wall Mount, 150 w	Each

Aggregate total	D5020	1267	Receptacle, 208 V, 3 phase	Each
Aggregate total	D5020	958	Receptacle, 120 V, 15 Amp.	Each
Aggregate total	D5020	1268	Receptacle, 120 V, 20 Amp.	Each
Aggregate total	D5020	992	TV Cable Outlet	Each
Aggregate total	D5020	1324	Welding Receptacle	Each
Aggregate total	D5020	957	Wiring Device, Switch	Each
Individual locations	D5030	1794	Alarm Siren	Each
Individual locations	D5030	986	Annunciation Panel	Each
Individual locations	D5030	1784	Camera Controller, Extension Module, Headend, Closed Circuit	Each
Individual locations	D5030	1783	Camera Controller, Headend, Closed Circuit	Each
Individual locations	D5030	1785	Camera Fiber Optics Patch Panel, Headend, Closed Circuit	Each
Aggregate total	D5030	1776	Camera Fiber Optics Power Supply, Closed Circuit	Each
Individual locations	D5030	1814	Camera Fiber Optics Receiver Rack Mount w/ Power Supply, Closed Circuit	Each
Individual locations	D5030	1787	Camera Fiber Optics Receiver Rack, Closed Circuit	Each
Aggregate total	D5030	1775	Camera Fiber Optics Receiver/Transmitter, Closed Circuit	Each
Aggregate total	D5030	1753	Camera Infrared Illuminator, Exterior, Closed Circuit	Each
Aggregate total	D5030	1796	Camera Light, Badging	Each
Individual locations	D5030	1818	Camera Multiplexer, Headend, Closed Circuit	Each
Individual locations	D5030	1765	Camera PTZ Receiver/Driver, Closed Circuit	Each
Individual locations	D5030	1824	Camera Tape Backup, Closed Circuit	Each
Individual locations	D5030	1817	Camera Video Quad Processor, Headend, Closed Circuit	Each
Individual locations	D5030	1740	Camera Video Receiver/Transmitter, Closed Circuit	Each
Aggregate total	D5030	1795	Camera, Badging	Each
Aggregate total	D5030	1766	Camera, Exterior, Closed Circuit, Fixed B/W	Each
Aggregate total	D5030	1807	Camera, Exterior, Closed Circuit, Fixed Color	Each
Aggregate total	D5030	1767	Camera, Exterior, Closed Circuit, PTZ B/W	Each
Aggregate total	D5030	1768	Camera, Exterior, Closed Circuit, PTZ Color	Each
Aggregate total	D5030	1722	Camera, Interior, Closed Circuit, Fixed B/W	Each
Aggregate total	D5030	1808	Camera, Interior, Closed Circuit, Fixed Color	Each
Aggregate total	D5030	1326	Camera, Interior, Closed Circuit, PTZ B/W	Each
Aggregate total	D5030	1769	Camera, Interior, Closed Circuit, PTZ Color	Each
Individual locations	D5030	1263	Camera, Security System	Each
Individual locations	D5030	1800	Card Die Cutter, Badging	Each
Individual locations	D5030	1797	Card Printer, Badging	Each
Aggregate total	D5030	1505	Card Reader	Each
Aggregate total	D5030	1806	Card Reader w/ Keypad	Each
Aggregate total	D5030	1723	Card Signature Pad, Badging	Each
Aggregate total	D5030	1810	Communications Duress Button	Each
Aggregate total	D5030	1714	Electric Lock	Each
Individual locations	D5030	1713	Exit Alarm	Each
Individual locations	D5030	1749	Exit Button	Each

Individual locations	D5030	1762	Exit Pushbar	Each
Individual locations	D5030	1819	Exit Sensor	Each
Individual locations	D5030	985	Fire Alarm Bell, 6"	Each
Individual locations	D5030	1482	Fire Alarm Horn & Strobe	Each
Individual locations	D5030	1801	Handicap Door Access Interface	Each
Individual locations	D5030	1816	Headend Panel Input Component, Closed Circuit	Each
Individual locations	D5030	1823	Headend Panel Output Component, Closed Circuit	Each
Individual locations	D5030	1815	Headend Panel, Closed Circuit	Each
Individual locations	D5030	987	Heat Detector	Each
Individual locations	D5030	1789	Intercom Master Station	Each
Aggregate total	D5030	1741	Intercom Speaker	Each
Individual locations	D5030	1790	Intercom Substation	Each
Aggregate total	D5030	1752	Intrusion Detection Balanced Magnetic Switch	Each
Aggregate total	D5030	1757	Intrusion Detection Fence Sensor, Exterior	Each
Aggregate total	D5030	1746	Intrusion Detection Glassbreak Sensor, Interior	Each
Aggregate total	D5030	1802	Intrusion Detection Infrared Beam, Exterior	Each
Aggregate total	D5030	1734	Intrusion Detection Motion Detector, Exterior	Each
Aggregate total	D5030	1747	Intrusion Detection Motion Detector, Interior	Each
Aggregate total	D5030	1721	Intrusion Detection Switch, Interior	Each
Aggregate total	D5030	1719	Keypad	Each
Aggregate total	D5030	1751	Magnetic Lock	Each
Individual locations	D5030	983	Manual Pull Station	Each
Individual locations	D5030	1737	Monitor, Command	Each
Individual locations	D5030	1744	Monitor, Large, Closed Circuit	Each
Individual locations	D5030	1774	Monitor, Medium, Closed Circuit	Each
Individual locations	D5030	1773	Monitor, Small, Closed Circuit	Each
Individual locations	D5030	996	Nurse Call Station	Each
Aggregate total	D5030	1750	Power Supply, Closed Circuit	Each
Aggregate total	D5030	980	Public Address Speaker	Each
Aggregate total	D5030	1812	Screening Explosive Detector	Each
Aggregate total	D5030	1782	Screening Magnetometer	Each
Aggregate total	D5030	1748	Screening X-Ray Machine	Each
Individual locations	D5030	1643	Security Control Panel	Each
Individual locations	D5030	1248	Security System Panel	Each
Individual locations	D5030	1788	Signal Distribution Unit, Headend, Closed Circuit	Each
Individual locations	D5030	984	Smoke Detector	Each
Aggregate total	D5030	1262	Sound System	Each
Aggregate total	D5030	1771	Surge Suppressor, Closed Circuit	Each
Aggregate total	D5030	1126	Time Control Clock	Each
Aggregate total	D5030	1724	Turnstile	Each
Aggregate total	D5030	1758	Vehicle Control Automatic Barrier	Each
Aggregate total	D5030	1735	Vehicle Control Bollard	Each

Aggregate total	D5030	1826	Vehicle Control Crash Gate	Each
Individual locations	D5030	1793	Vehicle Control Gate Control Interface	Each
Individual locations	D5030	1718	Vehicle Control Gate Operator	Each
Individual locations	D5030	1759	Vehicle Control Gate w/ Controller	Each
Aggregate total	D5030	1825	Vehicle Control Loop Detector	Each
Aggregate total	D5030	1717	Vehicle Control Manual Barrier	Each
Individual locations	D5030	1777	Video Distribution Amplifier, Headend, Closed Circuit	Each
Individual locations	D5030	1778	Video Matrix Switcher, Closed Circuit	Each
Individual locations	D5030	1772	Video Recorder, Analog, Headend, Closed Circuit	Each
Individual locations	D5030	1754	Video Recorder, Digital, Headend, Closed Circuit	Each
Individual locations	D5090	1508	Battery, UPS, Dry, 12 V, 75 Amp.	Each
Individual locations	D5090	1017	Generator Battery, Wet	Each
Individual locations	D5090	1118	Generator Switchgear	Each
Individual locations	D5090	1011	Generator, Diesel, 1,000 kw	Each
Individual locations	D5090	1411	Generator, Diesel, 125 kw	Each
Individual locations	D5090	2081	Generator, Diesel, 2,000 kw	Each
Individual locations	D5090	1078	Generator, Diesel, 30 kw	Each
Individual locations	D5090	1077	Generator, Diesel, 500 kw	Each
Individual locations	D5090	1567	Generator, Diesel, 60 kw	Each
Individual locations	D5090	1327	Generator, Propane, 30 kw	Each
Individual locations	D5090	1328	Lightning Protection System	Each
Individual locations	D5090	10011	Motor Generator, 400 Hz	Each
Aggregate total	D5090	1129	Skylight Shade System Program & Controls	Each
Individual locations	D5090	1128	Uninterruptible Power Supply, 750 kVA	Each
Aggregate total	E1010	2082	Coffee Brewer, 5 Burners	Each
Aggregate total	E1010	2084	Cooking Range, Commercial	Each
Aggregate total	E1010	2090	Cooking Range, Domestic	Each
Aggregate total	E1010	1104	Dishwasher, Commercial	Each
Individual locations	E1010	2083	Disposal, Garbage, Electric	Each
Aggregate total	E1010	2085	Fryer, Deep Fat	Each
Individual locations	E1010	1105	Icemaker, Commercial	Each
Individual locations	E1010	1109	Kitchen Exhaust Hood, Commercial	Each
Aggregate total	E1010	1644	Microwave Oven	Each
Aggregate total	E1010	1626	Refrigerator, Domestic	Each
Aggregate total	E1010	1101	Trash Compactor, 600 lbs	Each
Individual locations	E1010	2246	Walk-In Freezer/Cooler w/ Desuperheater, Commercial	Each
Individual locations	E1010	2245	Walk-In Freezer/Cooler w/ KoolStar, Commercial	Each
Individual locations	E1010	1106	Walk-In Freezer/Cooler, Commercial	Each
Aggregate total	E1020	1093	Anesthesia Vacuum Pump, <16 HP	Each
Individual locations	E1020	1100	Automatic Cart Washer	Each
Aggregate total	E1020	1127	Chart Recorder	Each
Individual locations	E1020	1312	Clean Room (Air Shower) Class 10,000	Each

Individual locations	E1020	1094	Dental Vacuum Pump, <11 HP	Each
Aggregate total	E1020	1041	Detention Doors & Hardware	Each
Individual locations	E1020	1102	Dust Collection System	Each
Individual locations	E1020	1110	Laboratory Exhaust Hood, 4'	Each
Individual locations	E1020	1687	Laboratory Exhaust Hood, 6'	Each
Individual locations	E1020	2249	Laboratory Exhaust Hood, Variable Volume w/ Occupancy Control, 4'	Each
Individual locations	E1020	2250	Laboratory Exhaust Hood, Variable Volume w/ Occupancy Control, 6'	Each
Individual locations	E1020	2247	Laboratory Exhaust Hood, Variable Volume, 4'	Each
Individual locations	E1020	2248	Laboratory Exhaust Hood, Variable Volume, 6'	Each
Individual locations	E1020	1095	Medical Gas Alarm Panel	Each
Individual locations	E1020	1096	Medical Gas Compressor/Dryer	Each
Aggregate total	E1020	1097	Medical Gas Outlet	Each
Individual locations	E1020	1132	Medical Waste Incinerator	Each
Individual locations	E1020	1107	Mortuary Unit Cooler	Each
Aggregate total	E1020	1092	Nourishment Station	Each
Individual locations	E1020	1111	Silver Recovery System	Each
Aggregate total	E1020	2168	Sink, Epoxy Resin, Laboratory	Each
Individual locations	E1020	1547	Vacuum Pump, 10 HP	Each
Individual locations	E1020	2086	Vacuum Pump, 30 HP	Each
Individual locations	E1020	1112	Waste Acid Neutralization System	Each
Aggregate total	G2010	1831	Asphaltic Pavement, Highways	Sq Ft
Aggregate total	G2010	1426	Asphaltic Pavement, Roadways	Sq Ft
Aggregate total	G2010	1389	Steel Guard Rail	Ln Ft
Aggregate total	G2020	1427	Asphaltic Pavement, Parking Lot	Sq Ft
Aggregate total	G2020	2087	Bike Rack	Each
Aggregate total	G2020	1423	Concrete Pavement	Sq Ft
Individual locations	G2020	1376	Parking Control Equipment, Barrier Gate & Controller	Each
Individual locations	G2020	1377	Parking Control Equipment, Card Reader	Each
Aggregate total	G2020	1375	Parking Stall Lines	Each
Aggregate total	G2030	1386	Asphalt Curb or Berm	Ln Ft
Aggregate total	G2030	1385	Asphalt Sidewalk	Ln Ft
Aggregate total	G2030	1388	Concrete Curb & Gutter	Ln Ft
Aggregate total	G2030	1387	Concrete Sidewalk, 4' Wide	Ln Ft
Aggregate total	G2040	1484	Chain Link Fence Swing Gate, Electric	Each
Aggregate total	G2040	1391	Chain Link Fence, 8'	Ln Ft
Aggregate total	G2040	1494	Sliding Gate, Motor Operated	Each
Aggregate total	G3010	1383	Fire Hydrant	Each
Aggregate total	G3010	1531	Pipe & Fittings, 10" Ductile Iron	K Ln Ft
Aggregate total	G3010	2094	Pipe & Fittings, 10" Steel	K Ln Ft
Aggregate total	G3010	2095	Pipe & Fittings, 12" Steel	K Ln Ft
Aggregate total	G3010	1532	Pipe & Fittings, 14" Ductile Iron	K Ln Ft
Aggregate total	G3010	1481	Pipe & Fittings, 18" Ductile Iron	K Ln Ft

Aggregate total	G3010	2120	Pipe & Fittings, 2" Copper	K Ln Ft
Aggregate total	G3010	2126	Pipe & Fittings, 2" PVC	K Ln Ft
Aggregate total	G3010	1537	Pipe & Fittings, 24" Ductile Iron	K Ln Ft
Aggregate total	G3010	2121	Pipe & Fittings, 4" Copper	K Ln Ft
Aggregate total	G3010	2125	Pipe & Fittings, 4" PVC	K Ln Ft
Aggregate total	G3010	2122	Pipe & Fittings, 6" Copper	K Ln Ft
Aggregate total	G3010	1530	Pipe & Fittings, 6" Ductile Iron	K Ln Ft
Aggregate total	G3010	2124	Pipe & Fittings, 6" PVC	K Ln Ft
Aggregate total	G3010	2123	Pipe & Fittings, 8" PVC	K Ln Ft
Aggregate total	G3010	2093	Pipe & Fittings, 8" Steel	K Ln Ft
Aggregate total	G3010	1507	Valve, Non-Drain, 24"	Each
Aggregate total	G3010	1499	Water Storage Tank, 100,000 Gal.	Each
Aggregate total	G3010	1455	Water Storage Tank, 20,000 Gal.	Each
Aggregate total	G3010	1534	Water Storage Tank, 250,000 Gal.	Each
Aggregate total	G3020	2096	Pipe & Fittings, 10" Cast Iron	K Ln Ft
Aggregate total	G3020	2097	Pipe & Fittings, 12" Cast Iron	K Ln Ft
Aggregate total	G3020	2098	Pipe & Fittings, 18" Cast Iron	K Ln Ft
Aggregate total	G3020	2127	Pipe & Fittings, 4" PVC	K Ln Ft
Aggregate total	G3020	2128	Pipe & Fittings, 6" PVC	K Ln Ft
Aggregate total	G3020	2092	Pipe & Fittings, 8" PVC	K Ln Ft
Aggregate total	G3020	1510	Pipe, Drain & Sewage, 10"-12" Vitrified Clay	K Ln Ft
Aggregate total	G3020	1538	Pipe, Drain & Sewage, 15"-18" Vitrified Clay	K Ln Ft
Aggregate total	G3020	1509	Pipe, Drain & Sewage, 6"-8" Vitrified Clay	K Ln Ft
Aggregate total	G3030	1478	Catch Basin	Each
Aggregate total	G3030	2108	Pipe & Fittings, 10" Cast Iron	K Ln Ft
Aggregate total	G3030	2109	Pipe & Fittings, 12" Cast Iron	K Ln Ft
Aggregate total	G3030	1480	Pipe & Fittings, 15" Concrete	K Ln Ft
Aggregate total	G3030	2110	Pipe & Fittings, 18" Cast Iron	K Ln Ft
Aggregate total	G3040	2114	Pipe & Fittings, 10" Steel	K Ln Ft
Aggregate total	G3040	2117	Pipe & Fittings, 12" Steel	K Ln Ft
Aggregate total	G3040	2135	Pipe & Fittings, 2" Steel	K Ln Ft
Aggregate total	G3040	2132	Pipe & Fittings, 4" Steel	K Ln Ft
Aggregate total	G3040	2129	Pipe & Fittings, 6" Steel	K Ln Ft
Aggregate total	G3040	2111	Pipe & Fittings, 8" Steel	K Ln Ft
Aggregate total	G3050	2115	Pipe & Fittings, 10" Steel	K Ln Ft
Aggregate total	G3050	2118	Pipe & Fittings, 12" Steel	K Ln Ft
Aggregate total	G3050	2136	Pipe & Fittings, 2" Steel	K Ln Ft
Aggregate total	G3050	2133	Pipe & Fittings, 4" Steel	K Ln Ft
Aggregate total	G3050	2130	Pipe & Fittings, 6" Steel	K Ln Ft
Aggregate total	G3050	2112	Pipe & Fittings, 8" Steel	K Ln Ft
Aggregate total	G3060	2116	Pipe & Fittings, 10" Steel	K Ln Ft
Aggregate total	G3060	2119	Pipe & Fittings, 12" Steel	K Ln Ft

Aggregate total	G3060	2137	Pipe & Fittings, 2" Steel	K Ln Ft
Aggregate total	G3060	2134	Pipe & Fittings, 4" Steel	K Ln Ft
Aggregate total	G3060	2131	Pipe & Fittings, 6" Steel	K Ln Ft
Aggregate total	G3060	2091	Pipe & Fittings, 8" Copper	K Ln Ft
Aggregate total	G3060	2113	Pipe & Fittings, 8" Steel	K Ln Ft
Aggregate total	G4020	1382	Pole Light, Exterior, 400 w	Each

Attachment B – Equipment List Spreadsheet Data Categories

Unifomat	
Component ID	
Component Name	
Description	
Name	
Equipment No.	PPDMC will enter this data
Model No.	
Room Location	
Functional Location	PPDMC will enter this data
Manufacturer	
Supplier	
Installing Contractor	
Serial No.	
Main Work Center	PPDMC will enter this data
Comments(30 char's)	PPDMC will enter this data
Critical	PPDMC will enter this data
JCAH Code	PPDMC will enter this data
Patient Room?	PPDMC will enter this data
Vendor ID	PPDMC will enter this data
Vendor Type	PPDMC will enter this data
Vendor - Other Info	PPDMC will enter this data
Equipment Life	PPDMC will enter this data
Area Serviced	
Contains Lead?	
Contains Asbestos?	
Contains PCBs?	
Motor Frame	
Motor Style	
Motor HP	
Motor Phase	
Motor Volts	
Motor RPM	
Fan CFM	
Fan RPM	
Fan Static	
Fan Type	
Fan RPM 2	
Pump Head	
Pump Inlet	
Pump GPM	
Pump Outlet	

Motor Oper Amps	
Condition	PPDMC will enter this data
Disconnect Location	
Motor FLA	
Belts	
Filters	

Attachment C - Example Preventative Maintenance Procedures

Description	Name	Equipment No.	Frequency	Maintenance Procedure	Maintenance Parts & Items
Air Handling Unit	AHU-1	M-12345	Monthly	Check Belts	
Air Handling Unit	AHU-1	M-12345	Quarterly	Grease bearings	Grease type xyz
Air Handling Unit	AHU-1	M-12345	Annually	Replace Belts	Belt model abc-123
Air Handling Unit	AHU-2	M-98765	Monthly	Check Belts	

The blue highlighted column will be filled in by PPDMC.

Attachment D - Example Whitestone Information Spreadsheet

Uniformat	ComponentID	Component Name	UoM	Quantity	Install Yr
B1010	1240	Concrete Decking	Sq Ft		
B1010	1238	Metal Decking	Sq Ft		
B1010	1237	Wood Decking	Sq Ft		
B1010	1393	Wood Ramp	Sq Ft		
B1020	1422	Steel Roof Access Ladder	Ln Ft		
B2010	1631	Aluminum Louver, 1st Floor	Each		
B2010	1662	Aluminum Louver, 2nd Floor	Each		
B2010	1663	Aluminum Louver, 3rd Floor	Each		
B2010	1985	Aluminum Siding, Exterior, 1st Floor	Sq Ft		
B2010	1986	Aluminum Siding, Exterior, 2nd Floor	Sq Ft		
B2010	1987	Aluminum Siding, Exterior, 3rd+ Floor	Sq Ft		
B2010	121	Aluminum Siding, Painted, Exterior, 1st Floor	Sq Ft		