

Gathering Asset Data and Loading it into AiM

UWF will utilize the AssetWorks AssetSync tool to import and export asset data in AiM. This tool and the required fields will not only create/update asset data in the Asset Management module but will also update asset data in the Asset Needs Analysis (ANA) module.

This is the process that will need to be done:

1. Prior to starting, email uwf-am-pm@uw.edu for a list of existing assets in the building. If it is a new construction, they will email back the templated sheet for adding new assets.
2. Use the Asset Sync Template spreadsheet and fill in the requested fields required fields are highlighted in yellow. You may request the spreadsheet from the Asset Management & Preventative Maintenance team, and after you've filled out the spreadsheet, email it back to them at: uwf-am-pm@uw.edu . Once received they will load it into the system.
3. If part of the project is to remove, or demolish existing assets, change the status of that asset in the spreadsheet to DEMOLISHED.
4. If part of the project is disconnect the asset from service but leave it in place, then change the status in the spreadsheet to ABANDONED.

Asset Sync Template Spreadsheet Instructions For Asset Tab

The following is a listing of fields and their description/function within in AiM. They will be designated as: (R)-Required by AiM to properly function in the Importing process (fields are highlighted in yellow on the spreadsheet); (R)-Required by UWF to leverage the system to its fullest benefit; (O)-Optional field, depending on the asset this information may be required or not.

Asset_tag: (R)-When an import occurs, the system will automatically generate the next number in the sequence for the asset. This number will be the Asset ID, which is used throughout the system to uniquely identify the asset. But to ensure that other tabs can link data to this asset an unique ID is needed. It could be the Asset Tag QR Code, if tagging asset, or a sequence number such 01, 02---100.

New_aim_asset: (R)-This is filled in with either a Y (Yes) or N (No). Y is used when you are creating a new asset that doesn't exist in the system, if the asset_tag field is blank, then this should be set to Y. N is used when the asset already exists in the system, if the asset_tag field is already populated with a random number, then this field should be set to N.

Description: (R)-This is the name of the asset. The format for the naming convention is: FACNUM-Full Name of Asset-Unique Identifier (preferred if identifier matches the identifier from the drawing, otherwise a sequence number will suffice). Examples: 1111-Electrical Panel-PCD-N2, 1111-Air Handling Unit-2; 1008-Variable Frequency Drive-15.

Asset_Type: (R)-This a classification of the type of Asset, these types can be either: Durable, Serialized, System, Property Component, or Property. When Assets are being created for Buildings the Asset Type should be set to Property. All other Assets should have the Asset Type set to Serialized.

Asset_Group: (R)-Asset Groups are a way to group several like assets to together. There is an initial starting list of Asset Groups to choose from (141 of them), based on Uniformat II (2010) for their

groupings. The names of the Asset Groups will be the common description of the Unifomat II code. *See Appendix 1 for the list of Asset Groups.* If an asset doesn't fit into one of the Asset Groups, leave this field blank.

Status_Code: (R)-This is the status of the Asset. Depending on the status of the Asset the system will either allow the asset to be attached to work orders or not. This will be a pick list, currently the list includes statuses such as: APPROVAL, PARTS ON ORDER, LOTO, OUT OF SERVICE, ABANDONED. This should be set to the default of **OPERATIONAL**.

Rentable_yn: (R)-This is a Y or N. This should just be defaulted to N.

tag_number: (R)-This where the unique QR Code Number is applied. If QR codes are applied during construction it would be linked via the Asset Management app.

Region_Code: (R)-This is identifying the Region within the Property Module of where the asset is. Currently the default for anything on the Main campus of Seattle is: SEATTLE MAIN.

Fac-id: (R)-This is also identifying the where the asset is within the Property Module. Currently the default for anything on the Main campus of Seattle is: SEATTLE MAIN.

Bldg: (R)-This is the further defining where the asset is to the building level. This would be the FACNUM.

Loc_id: (R)-This is even further defining where the asset is by giving it a room location. This is optional, as some assets might exist in only one place in a building, such as an Air Handling Unit, or may exist throughout the building, such as Duct Work.

Lockout: (R)-This is indicating if the Asset needs to be locked out or tagged out to perform work on it. This is a Y (Yes) or N (No).

Manufacture_code: (R)-This is the name of the Manufacturer of the Asset.

Manu_part_number: (R)-This is the Make/Model of the Asset.

Serial_no: (R)-This is the serial number of the asset if it has one. Example: A pump may have a serial number, but piping may not.

Longitude: (O)-This is where you can record the longitude of an asset. It can be used to help geolocate the asset when pushing data to GIS. Example: -122.303

Latitude: (O)-This is where you can record the latitude of an asset. It can be used to help geolocate the asset when pushing data to GIS. Example: 47.65597

Altitude: (O)-This is where you can record the altitude of an asset. It can be used to help geolocate the asset when pushing data to GIS. Example: 29.88533

Planning_group: (R)-This would be selecting from a pick list of Planning Groups that are configured in the ANA module. There are 8 planning groups, 01-Exterior, 02-Interior, 03-Plumbing, 04-HVAC, 05-Fire/Life Safety, 06-Electrical, 07-Site, 08-Vertical Transmission. In this column place the number for the planning group the asset would belong to (mostly following the Unifomat logic). For example a elevator would be entered as 08.

Ana_priority: (R)-This would be selecting from a pick list of priorities that are configured in the ANA module. There are 10 priorities, based on a matrix of a business driver and an probability of an impact. 01 is the highest priority, and 10 is the lowest. Assigning the priority is based on why we would need/want to replace the asset, when it comes due at the end of its life cycle, and what potential impact would there be if we allowed it to become deferred maintenance. The priorities are: 01-Immediate-Safety, 02-Immediate-Regulatory, 03-Immediate-Strategic, 04-Potential-Safety, 05-Potential-Regulatory, 06-Potential Strategic, 07-Potential-Improvements, 08-Limited-Regulatory, 09-Limited Strategic, 10-Limited-Improvements. (Note: for asset renewals (since this is for long term planning), almost all of them will most likely be 05 or 06, the difference being whether they are a regulated asset or not)

Year_installed: (R)-This is the year that the asset was actually installed, it may be different from the year the asset was purchased. For example, you buy a bulk load of VFD's in 2017, but this particular VFD isn't installed until 2018.

Cost_model: (R)-This is list of cost models used within the system to attach to an asset. Cost Models provide a base price for labor and material on a unit of measure basis. So if the cost model is based on SF, then the ana_uom should also be in SF, and the ana_quantity should be the total SF. *See list of Cost Models in Appendix 2.*

Complexity_factor: (R)-This is used for a calculation for the adjusted renewal cost of the asset in the ANA module. This is something that can be adjusted on a case by case basis. So the default setting should always be set at 100%, all you need to enter in this field is 100.

Base_year: (R)-This is also used for the calculation for the adjusted renewal cost of the asset in the ANA module. The base year is the current last year in which an inflation rate has been set in the system. Since we're just starting out, use 2021 as the base year. Current plan is that once a FY the inflation rates will be updated, if an update occurs in 2022, then the base year would need to change to 2022 for new assets added to the system after the change over date.

Physical_Life: (O)-This is the number of years that you expect to Asset to be in service out in the field. For example: if you expect the VFD to be in the field for 15 years, then you'd enter 15. If Cost Models are used then this field is not needed.

Ana_uom: (R)-This is the unit of measure of the asset, this will be a pick list, such as: Each, Linear Feet, etc. These must match the Cost Model's UOM. Example: A Pump's cost model is based on HP, so you'd put HP in this column.

Ana_qty: (R)-This is a quantity of the Asset, this is simply a count based on the unit of measure. For example, if the unit of measure is Each, the quantity might be 1. Or if the unit of measure is Linear Feet, then quantity might be 328.

Renewal_cost: (O)-This is the renewal or replacement cost. If you had replace this asset how much would it cost? If Cost Models are assigned, then this field is not needed.

af1: (O)-This is for work tag identification, this column is for Company, default UW1861

af2: (O)-This is for work tag identification, this column is for Cost Center.

af3: (O)-This is for work tag identification, this column is for Resource.

af4: (O)-This is for work tag identification, this column is for Fund

af5: (O)-This is for work tag identification, this column is for Project.

af6: (O)-This is for work tag identification, this column is for Program.

af7: (O)-This is for work tag identification, this column is for Grant.

af8: (O)-This is for work tag identification, this column is for Gift.

af9: (O)-This is for work tag identification, this column is for Activity.

af10: (O)-This is for work tag identification, this column is for Assignee.

Asset Sync Template Spreadsheet Instructions For UDF Tab

In an effort create a reporting structure and simplify the Asset Hierarchy, a proposed plan for using the Classification Standards within AiM will be discussed in the APT group for Asset Standards.

asset_tag: (R)-This is the Asset ID from the Assets Tab (for new assets this won't exist, may have to start with just a sequence that matches the Assets Tab sequence)

Remaining Columns: are all labeled in sequential order of custom001, custom002...custom060. We currently have some UDF's created, that has critical cross reference data is if the asset also has a State Identification Number. If so, then we want to capture that ID in UDF Custom007.

custom007: (O)-State ID Number. Some assets, such as Pressure Vessels and Elevators must be registered with State of Washington. Once registration has occurred the state provides a unique identifier that does not match any naming or numbering convention that UW uses.

Asset Sync Template Spreadsheet Instructions For Accounts Tab

In an effort to record which account setup should be used to charge work on that asset, we can assign account information in the Account Tab.

asset_tag: (O)-This is the Asset ID from the Assets Tab (for new assets this won't exist, may have to start with just a sequence that matches the Asset Tab Sequence).

seq: (O)-If an asset has a split between multiple accounts, you would sequence the accounts by which to charge first, second, third etc. Most assets will have only one account, so the sequence would be 1.

funding_code: (O)-This is the primary account information for that asset.

sub_code: (O)-This is a required field that we don't use, so the default will always be NONE.

sub_ledger: (O)-This is a assigns what kind of charges can be applied, Material, Labor, Contract or All. The default is all, which is represented in the spreadsheet as A.

sub_percent: (O)-This is how much should be applied to each account assigned to the asset. If there is only one account then it will be 100. If there are multiple accounts you'd split them as needed (50/50, or 70/30, etc.)

locked_dist: (O)-This is a required field that has set default of N.

Asset Sync Template Spreadsheet Instructions For Attributes Tab

All Asset Groups now have the same list and sequence of Attributes lists in an effort to simplify the data collection and data management. Like other tabs Yellow Highlighted columns are required, grey are optional. On this tab all grey fields are text fields. (Note: When filling out this sheet, not all 32 Attributes will apply to all Assets, so you don't have to create a line item for things that don't apply. Example: Elevators don't have any Refrigerant so you could create line items for sequence 10, 20, 30, (skip 40-90) and then start entering again at 100). The columns are:

asset_tag: (R)-the asset id number same one used from the Asset tab

sequence: (R)-is a number 10 through 320 by 10's

asset_type: (R)-is the asset type, which is a default value of Serialized

asset_group: (R)-is the asset group, which needs to match the asset group from the Asset Tab

attr_id: (R)-is the Attribute ID, which is a number 1 through 32, and matches the sequence, so a sequence 10 is a attribute 1 and sequence 20 is an attribute 2 and so on.

Attr_value: (R)- is an open text field where you put in the information for each attribute (see the key below)

Attribute Sequence	Attribute Value
10	Elevator Type
20	Elevator Capacity (LBS)
30	Elevator Speed/Traction
40	Refrigerant Type
50	Refrigerant Capacity (LBS)
60	>50 LBS Refrigerant
70	Glycol
80	Charge (PSI)
90	Leakage Rate
100	Voltage
110	Phases
120	Hertz
130	Ampres
140	Watts
150	Kilowatts
160	Megawatts
170	Kilovolt Ampres (KVA)
180	Pressure Vessel Type
190	Safety Valve (SV) Setting
200	Pressure Vessel Capacity (Gallon)
210	Belts
220	Bearings
230	Shives

240	Lubrication
250	Filters
260	Horsepower (HP)
270	British Thermal Unit (BTU/KW)
280	British Thermal Unit/Hour
290	A Thousand BTU's (MBH)
300	Gallons Per Minute
310	Cubic Feet Per Minute
320	Tons

Asset Sync Template Spreadsheet Instructions For Classification Tab

The System allows us to enter in different Classification Standards and then apply those standards to Assets. Currently we've only entered Uniformat II (2010). And we've only entered in data to the Level 4 of that Standard. For each asset, you put in the Asset ID, the standard, and at each level enter in the level code.

asset_tag: (R)-the asset id number same one used from the Asset tab

class_standard: (R)-enter in the classification standard, the default is UNIFORMAT 2010

level_1: (R)-first level of the classification standard

level_2: (R)-second level of the classification standard

level_3: (R)-third level of the classification standard

level_4: (R)-fourth level of the classification standard

level_5: (O)-fifth level of the classification standard

level_6: (O)-sixth level of the classification

Appendix 1 Asset Groups

Asset Group	Description
B1080	Stairs
B1080.60	Fire Escapes
B1080.80	Ladders
B2010	Exterior Walls
B2010.10	Exterior Wall Veneer
B2010.50	Parapets
B2010.60	Equipment Screens
B2020	Exterior Windows
B2050	Exterior Doors and Grills
B2050.10	Exterior Entrance Doors
B2050.70	Exterior Gates

B2070	Exterior Louvers and Vents
B2080	Exterior Wall Appurtenances
B2080.50	Exterior Balcony Walls and Railings
B2080.70	Exterior Fabrications
B2080.80	Bird Control Devices
B3010	Roofing
B3020	Roof Appurtenances
C1010	Interior Partitions
C1020	Interior Windows
C1030	Interior Doors
C1030.70	Interior Special Function Doors
C1040	Interior Grills and Gates
C1070	Suspended Ceiling Construction
C1090.50	Fireplaces and Stoves
C1090.60	Safety Specialties
C2030	Flooring
C2050	Ceiling Finishes
D1010	Vertical Conveying Systems
D1010.10	Elevators
D1010.20	Lifts
D1030	Horizontal Conveying
D1050	Material Handling
D1050.10	Cranes
D1050.2	Hoists
D1080	Operable Access Systems
D1080.10	Suspended Scaffolding
D1080.30	Elevating Platforms
D2010	Domestic Water Distribution
D2010.10	Facility Potable-Water Storage Tanks
D2010.65	Emergency Eyewash & Emergency Showers
D2010.80	Drinking Fountains & Water Coolers
D2010.90	Domestic Water Distribution Supplementary Components
D2020	Sanitary Drainage
D2030	Building Support Plumbing Systems
D2030.10	Storm water Drainage Equipment
D2050	General Service Compressed Air
D2060	Process Support Plumbing Systems
D2060.50	Processed Water Systems
D2060.90	Process Support Plumbing System Supplementary Components
D3010	Facility Fuel Systems
D3020	Heating Systems
D3030	Cooling Systems
D3030.10	Central Cooling

D3050	Facility HVAC Distribution Systems
D3050.10	Facility Hydronic Distribution
D3050.30	Facility Steam Distribution
D3050.50	HVAC Air Distribution
D3050.50.10	Air Handling Units
D3060	Ventilation
D3060.60	Air-to-Air Energy Recovery
D3060.70	HVAC Air Cleaning
D4010	Fire Suppression
D4030	Fire Protection Specialties
D5010	Facility Power Generation
D5010.10	Packaged Generator Assemblies
D5010.15	Uninterruptible Power Supply (UPS)
D5010.70	Transfer Switches
D5020	Electrical Service and Distribution
D5020.13	Transformers
D5020.14	Switchgear & Switchboards
D5020.30	Power Distribution
D5020.31	Switchboards
D5020.32	Panelboards
D5020.33	Motor-Control Centers
D5030	General Purpose Electrical Power
D5040	Lighting
D5080	Miscellaneous Electrical Systems
D5080.10	Lighting Protection
D6010	Data Communications
D6010.30	Data Communications Peripheral Data Equipment
D6020	Voice Communications
D6030	Audio-Video Communication
D7010	Access Control and Intrusion Detection
D7010.10	Access Control
D7030	Electronic Surveillance
D7050	Detection and Alarm
D7050.10	Fire Detection and Alarm
D7050.50	Refrigeration Detection and Alarm
D7070	Electronic Monitoring and Control
D8010	Integrated Automation Facility Controls
D8010.90	Integrated Automation Supplementary Components
E1010	Vehicle and Pedestrian Equipment
E1030	Commercial Equipment
E1030.30	Refrigerated Display Equipment
E1030.40	Maintenance Equipment
E1030.55	Unit Kitchens

E1030.80	Food Service Equipment
E1040	Institutional Equipment
E1040.20	Healthcare Equipment
E1040.60	Security Equipment
E1060	Residential Equipment
E1070	Entertainment and Recreational Equipment
E1090	Other Equipment
E1090.10	Solid Waste Handling Equipment
E1090.60	Decontamination Equipment
E2010	Fixed Furnishings
E2010.10	Fixed Art
F1010.52	Controlled Environment Rooms
F1050	Special Facility Components
F1050.10	Pools
F1050.70	Animal Containment
G1070	Site Earthwork
G1070.70	Wetlands
G2010	Roadways
G2010.40	Roadways Appurtenances
G2020	Parking Lots
G2030	Pedestrian Plazas and Walkways
G2060	Site Development
G2060.25	Site Furnishings
G2060.60	Retaining Walls
G2060.70	Site Bridges
G2080	Landscaping
G3010	Water Utilities
G3010.15.3	Fire Hydrants
G3020	Sanitary Sewerage Utilities
G3020.20	Sanitary Sewerage Piping
G3020.50	Sanitary Sewerage Structures
G3030	Storm Drainage Utilities
G3030.10	Storm Drainage Utility Connection
G3030.11	Manholes
G3030.41	Catch Basins
G3030.43	Water Quality Features
G3050	Site Energy Distribution
G3060	Site Fuel Distribution
G4010	Site Electrical Distribution Systems
G4050	Site Lighting
G5010	Site Communications Systems
G5010.10	Site Communications Structures
G9010	Tunnels

Appendix 2 Cost Models

Model	Description	UOM
AC01	AIR COMPRESSOR SYSTEM - R-HVAC CONTROLS (<=6 TOTAL HP)	HP
AC02	AIR COMPRESSOR SYSTEM - R-HVAC CONTROLS (7-10 TOTAL HP)	HP
AC03	AIR COMPRESSOR SYSTEM - R-HVAC CONTROLS (>10 TOTAL HP)	HP
AD01	AIR DRYER, REFRIGERATED (0-10 CFM)	EA
AD02	AIR DRYER, REFRIGERATED (11-25 CFM)	EA
AD03	AIR DRYER, REFRIGERATED (26-50 CFM)	EA
AD04	AIR DRYER, REFRIGERATED (51-75 CFM)	EA
AD05	AIR DRYER, REFRIGERATED (76-100 CFM)	EA
AD06	AIR DRYER, REFRIGERATED (101-150 CFM)	EA
AD07	AIR DRYER, REFRIGERATED (0-10 CFM)	EA
AD08	AIR DRYER, REFRIGERATED (11-25 CFM)	EA
AD09	AIR DRYER, REFRIGERATED (26-50 CFM)	EA
AD10	AIR DRYER, REFRIGERATED (51-75 CFM)	EA
AD11	AIR DRYER, REFRIGERATED (76-100 CFM)	EA
AD12	AIR DRYER, REFRIGERATED (101-150 CFM)	EA
AH01	AIR HANDLING UNIT - INDOOR (.5-1.25 HP)	HP
AH02	AIR HANDLING UNIT - INDOOR (1.26-1.75 HP)	HP
AH03	AIR HANDLING UNIT - INDOOR (1.76-2.75 HP)	HP
AH04	AIR HANDLING UNIT - INDOOR (2.76-3.25 HP)	HP
AH05	AIR HANDLING UNIT - INDOOR (3.26-6 HP)	HP
AH06	AIR HANDLING UNIT - INDOOR (7-9 HP)	HP
AH07	AIR HANDLING UNIT - INDOOR (10-12 HP)	HP
AH08	AIR HANDLING UNIT - INDOOR (13-17 HP)	HP
AH09	AIR HANDLING UNIT - INDOOR (18-23 HP)	HP
AH10	AIR HANDLING UNIT - INDOOR (24-27 HP)	HP
AH11	AIR HANDLING UNIT - INDOOR (28-35 HP)	HP
AH12	AIR HANDLING UNIT - INDOOR (36-45 HP)	HP
AH13	AIR HANDLING UNIT - INDOOR (46-63 HP)	HP
AH14	AIR HANDLING UNIT - INDOOR (64-88 HP)	HP
AH15	AIR HANDLING UNIT - INDOOR (>88 HP)	HP
AH16	AIR HANDLING UNIT - OUTDOOR PACKAGE (.75-1.5 HP)	HP
AH17	AIR HANDLING UNIT - OUTDOOR PACKAGE (1.6-5 HP)	HP
AH18	AIR HANDLING UNIT - OUTDOOR PACKAGE (6-8 HP)	HP
AH19	AIR HANDLING UNIT - OUTDOOR PACKAGE (9-12 HP)	HP
AH20	AIR HANDLING UNIT - OUTDOOR PACKAGE (13-17 HP)	HP
AH21	AIR HANDLING UNIT - OUTDOOR PACKAGE (>17 HP)	HP
AH22	AIR HANDLING UNIT - OUTDOOR MAKEUP, GAS (<=85 MBH INPUT)	MBH
AH23	AIR HANDLING UNIT - OUTDOOR MAKEUP, GAS (86-108 MBH INPUT)	MBH
AH24	AIR HANDLING UNIT - OUTDOOR MAKEUP, GAS (109-140 MBH INPUT)	MBH
AH25	AIR HANDLING UNIT - OUTDOOR MAKEUP, GAS (141-208 MBH INPUT)	MBH

AH26	AIR HANDLING UNIT - OUTDOOR MAKEUP, GAS (209-263 MBH INPUT)	MBH
AH27	AIR HANDLING UNIT - OUTDOOR MAKEUP, GAS (264-413 MBH INPUT)	MBH
AH28	AIR HANDLING UNIT - OUTDOOR MAKEUP, GAS (414-525 MBH INPUT)	MBH
AH29	AIR HANDLING UNIT - OUTDOOR MAKEUP, GAS (>525 MBH INPUT)	MBH
AH30	ENTHALPY WHEEL, ENERGY RECOVERY, AIR TO AIR (<=2,000 CFM)	CFM
AH31	ENTHALPY WHEEL, ENERGY RECOVERY, AIR TO AIR (2,001-6,000 CFM)	CFM
AH32	ENTHALPY WHEEL, ENERGY RECOVERY, AIR TO AIR (6,001-20,000 CFM)	CFM
AH33	ENTHALPY WHEEL, ENERGY RECOVERY, AIR TO AIR (>20,000 CFM)	CFM
AH34	COMPUTER ROOM AC UNIT - GLYCOL, EXCL. HEAT REJECTION	TON
AH35	COMPUTER ROOM AC UNIT - REFRIGERANT, EXCL. HEAT REJECTION (<=3 TON)	TON
AH36	COMPUTER ROOM AC UNIT - REFRIGERANT, EXCL. HEAT REJECTION (4-10 TON)	TON
AH37	COMPUTER ROOM AC UNIT - REFRIGERANT, EXCL. HEAT REJECTION (11-20 TON)	TON
AH38	COMPUTER ROOM AC UNIT - REFRIGERANT, EXCL. HEAT REJECTION (>20 TON)	TON
AH39	COMPUTER ROOM AC UNIT - CHILLED WATER (<=5 TON)	TON
AH40	COMPUTER ROOM AC UNIT - CHILLED WATER (6-10 TON)	TON
AH41	COMPUTER ROOM AC UNIT - CHILLED WATER (11-20 TON)	TON
AH42	COMPUTER ROOM AC UNIT - CHILLED WATER (21-30 TON)	TON
AH43	COMPUTER ROOM AC UNIT - CHILLED WATER (>30 TON)	TON
AH44	HEAT PUMP, WATER-SOURCE	TON
AH45	HUMIDIFIER, STEAM INJECTION	EA
AH46	HUMIDIFIER, ELECTRIC, POINT-OF-USE	EA
AH47	DEHUMIDIFIER SYSTEM, DESICCANT WHEEL (<=50 CFM)	CFM
AH48	DEHUMIDIFIER SYSTEM, DESICCANT WHEEL (51-150 CFM)	CFM
AH49	DEHUMIDIFIER SYSTEM, DESICCANT WHEEL (151-600 CFM)	CFM
AH50	DEHUMIDIFIER SYSTEM, DESICCANT WHEEL (601-1,125 CFM)	CFM
AH51	DEHUMIDIFIER SYSTEM, DESICCANT WHEEL (1,126-2,250 CFM)	CFM
AH52	DEHUMIDIFIER SYSTEM, DESICCANT WHEEL (2,251-4,500 CFM)	CFM
AH53	DEHUMIDIFIER SYSTEM, DESICCANT WHEEL (4,501-9,000 CFM)	CFM
AH54	DEHUMIDIFIER SYSTEM, DESICCANT WHEEL (9,001-15,000 CFM)	CFM
AH55	DEHUMIDIFIER SYSTEM, DESICCANT WHEEL (15,001-20,000 CFM)	CFM
AH56	DEHUMIDIFIER SYSTEM, DESICCANT WHEEL (20,001-30,000 CFM)	CFM
AH57	DEHUMIDIFIER SYSTEM, DESICCANT WHEEL (>30,000 CFM)	CFM
AI01	INSULATION, ATTIC, ROLLED OR BLOWN-IN	SF
BA01	CONTROLS - TERMINAL ASSEMBLIES - COURTHOUSE	SF
BA02	CONTROLS - TERMINAL ASSEMBLIES - CLASSROOM	SF
BA03	CONTROLS - TERMINAL ASSEMBLIES - DATA CENTER	SF
BA04	CONTROLS - TERMINAL ASSEMBLIES - DORMITORY	SF
BA05	CONTROLS - TERMINAL ASSEMBLIES - FOOD SERVICE FACILITY	SF
BA06	CONTROLS - TERMINAL ASSEMBLIES - GYMNASIUM	SF
BA07	CONTROLS - TERMINAL ASSEMBLIES - HOTEL	SF
BA08	CONTROLS - TERMINAL ASSEMBLIES - JAIL / CORRECTIONS	SF
BA09	CONTROLS - TERMINAL ASSEMBLIES - LABORATORY, WET	SF
BA10	CONTROLS - TERMINAL ASSEMBLIES - LIBRARY	SF

BA11	CONTROLS - TERMINAL ASSEMBLIES - MEDICAL CLINIC	SF
BA12	CONTROLS - TERMINAL ASSEMBLIES - HOSPITAL	SF
BA13	CONTROLS - TERMINAL ASSEMBLIES - MEDICAL RESIDENCE	SF
BA14	CONTROLS - TERMINAL ASSEMBLIES - OFFICE	SF
BA15	CONTROLS - TERMINAL ASSEMBLIES - PARKING STRUCTURE	SF
BA16	CONTROLS - TERMINAL ASSEMBLIES - RELIGIOUS FACILITY	SF
BA17	CONTROLS - TERMINAL ASSEMBLIES - RESIDENCE	SF
BA18	CONTROLS - TERMINAL ASSEMBLIES - RETAIL	SF
BA19	CONTROLS - TERMINAL ASSEMBLIES - SCHOOL K-12	SF
BA20	CONTROLS - TERMINAL ASSEMBLIES - SHOPS / TRADES, DRY LABORATORY	SF
BA21	CONTROLS - TERMINAL ASSEMBLIES - STUDENT UNION	SF
BA22	CONTROLS - TERMINAL ASSEMBLIES - THEATER	SF
BA23	CONTROLS - TERMINAL ASSEMBLIES - WAREHOUSE	SF
BA24	CONTROLS - FIELD PANELS/OPS SOFTWARE - COURTHOUSE	SF
BA25	CONTROLS - FIELD PANELS/OPS SOFTWARE - CLASSROOM	SF
BA26	CONTROLS - FIELD PANELS/OPS SOFTWARE - DATA CENTER	SF
BA27	CONTROLS - FIELD PANELS/OPS SOFTWARE - DORMITORY	SF
BA28	CONTROLS - FIELD PANELS/OPS SOFTWARE - FOOD SERVICE FACILITY	SF
BA29	CONTROLS - FIELD PANELS/OPS SOFTWARE - GYMNASIUM	SF
BA30	CONTROLS - FIELD PANELS/OPS SOFTWARE - HOTEL	SF
BA31	CONTROLS - FIELD PANELS/OPS SOFTWARE - JAIL / CORRECTIONS	SF
BA32	CONTROLS - FIELD PANELS/OPS SOFTWARE - LABORATORY	SF
BA33	CONTROLS - FIELD PANELS/OPS SOFTWARE - LIBRARY	SF
BA34	CONTROLS - FIELD PANELS/OPS SOFTWARE - MEDICAL CLINIC	SF
BA35	CONTROLS - FIELD PANELS/OPS SOFTWARE - HOSPITAL	SF
BA36	CONTROLS - FIELD PANELS/OPS SOFTWARE - MEDICAL RESIDENCE	SF
BA37	CONTROLS - FIELD PANELS/OPS SOFTWARE - OFFICE	SF
BA38	CONTROLS - FIELD PANELS/OPS SOFTWARE - PARKING STRUCTURE	SF
BA39	CONTROLS - FIELD PANELS/OPS SOFTWARE - RELIGIOUS FACILITY	SF
BA40	CONTROLS - FIELD PANELS/OPS SOFTWARE - RESIDENCE	SF
BA41	CONTROLS - FIELD PANELS/OPS SOFTWARE - RETAIL	SF
BA42	CONTROLS - FIELD PANELS/OPS SOFTWARE - SCHOOL K-12	SF
BA43	CONTROLS - FIELD PANELS/OPS SOFTWARE - SHOPS / TRADES	SF
BA44	CONTROLS - FIELD PANELS/OPS SOFTWARE - STUDENT UNION	SF
BA45	CONTROLS - FIELD PANELS/OPS SOFTWARE - THEATER	SF
BA46	CONTROLS - FIELD PANELS/OPS SOFTWARE - WAREHOUSE	SF
BA47	CONTROLS - MAJOR INSTRUMENTATION - COURTHOUSE	SF
BA48	CONTROLS - MAJOR INSTRUMENTATION - CLASSROOM	SF
BA49	CONTROLS - MAJOR INSTRUMENTATION - DATA CENTER	SF
BA50	CONTROLS - MAJOR INSTRUMENTATION - DORMITORY	SF
BA51	CONTROLS - MAJOR INSTRUMENTATION - FOOD SERVICE FACILITY	SF
BA52	CONTROLS - MAJOR INSTRUMENTATION - GYMNASIUM	SF
BA53	CONTROLS - MAJOR INSTRUMENTATION - HOTEL	SF

BA54	CONTROLS - MAJOR INSTRUMENTATION - JAIL / CORRECTIONS	SF
BA55	CONTROLS - MAJOR INSTRUMENTATION - LABORATORY	SF
BA56	CONTROLS - MAJOR INSTRUMENTATION - LIBRARY	SF
BA57	CONTROLS - MAJOR INSTRUMENTATION - MEDICAL CLINIC	SF
BA58	CONTROLS - MAJOR INSTRUMENTATION - HOSPITAL	SF
BA59	CONTROLS - MAJOR INSTRUMENTATION - MEDICAL RESIDENCE	SF
BA60	CONTROLS - MAJOR INSTRUMENTATION - OFFICE	SF
BA61	CONTROLS - MAJOR INSTRUMENTATION - PARKING STRUCTURE	SF
BA62	CONTROLS - MAJOR INSTRUMENTATION - RELIGIOUS FACILITY	SF
BA63	CONTROLS - MAJOR INSTRUMENTATION - RESIDENCE	SF
BA64	CONTROLS - MAJOR INSTRUMENTATION - RETAIL	SF
BA65	CONTROLS - MAJOR INSTRUMENTATION - SCHOOL K-12	SF
BA66	CONTROLS - MAJOR INSTRUMENTATION - SHOPS / TRADES	SF
BA67	CONTROLS - MAJOR INSTRUMENTATION - STUDENT UNION	SF
BA68	CONTROLS - MAJOR INSTRUMENTATION - THEATER	SF
BA69	CONTROLS - MAJOR INSTRUMENTATION - WAREHOUSE	SF
BF01	BACKFLOW PREVENTER (<=1 INCH)	EA
BF02	BACKFLOW PREVENTER (1.1-2 INCHES)	EA
BF03	BACKFLOW PREVENTER (2.1-3 INCHES)	EA
BF04	BACKFLOW PREVENTER (3.1-4 INCHES)	EA
BF05	BACKFLOW PREVENTER (4.1-6 INCHES)	EA
BF06	BACKFLOW PREVENTER (6.1-8 INCHES)	EA
BF07	BACKFLOW PREVENTER (>8 INCHES)	EA
BL04	BOILER - GAS/OIL (<=2,000 MBH)	MBH
BL05	BOILER - GAS/OIL (>2,000 MBH)	MBH
BL06	DEAERATOR SYSTEM	MBH
BL07	BOILER FEED WATER PUMP SYSTEM (<=10,000 MBH)	MBH
BL08	BOILER FEED WATER PUMP SYSTEM (>10,000 MBH)	MBH
BL09	CHEMICAL FEEDER - BOILER FEED WATER	MBH
BL10	BOILER - ELECTRIC (<=30 MBH)	MBH
BL11	BOILER - ELECTRIC (31-60 MBH)	MBH
BL12	BOILER - ELECTRIC (61-150 MBH)	MBH
BL13	BOILER - ELECTRIC (151-310 MBH)	MBH
BL14	BOILER - ELECTRIC (311-2,100 MBH)	MBH
BL15	BOILER - ELECTRIC (2,100-10,150 MBH)	MBH
BL16	BOILER - ELECTRIC (>10,150 MBH)	MBH
BL17	BOILER - OIL (<=140 MBH)	MBH
BL18	BOILER - OIL (141-660 MBH)	MBH
BL19	BOILER - OIL (661-2,040 MBH)	MBH
BL20	BOILER - OIL (>2,040 MBH)	MBH
BL21	BOILER - GAS (<=80 MBH)	MBH
BL22	BOILER - GAS (81-130 MBH)	MBH
BL23	BOILER - GAS (131-220 MBH)	MBH

BL24	BOILER - GAS (221-410 MBH)	MBH
BL25	BOILER - GAS (411-800 MBH)	MBH
BL26	BOILER - GAS (801-1,500 MBH)	MBH
BL27	BOILER - GAS (1,501-2,400 MBH)	MBH
BL28	BOILER - GAS (2,401-3,500 MBH)	MBH
BL29	BOILER - GAS (3,501-5,800 MBH)	MBH
BL30	BOILER - GAS (5,801-10,000 MBH)	MBH
CH01	CHILLER - WATER-COOLED CENTRIFUGAL OR SCREW (<=150 TONS)	TON
CH02	CHILLER - WATER-COOLED CENTRIFUGAL OR SCREW (151-350 TONS)	TON
CH03	CHILLER - WATER-COOLED CENTRIFUGAL OR SCREW (351-550 TONS)	TON
CH04	CHILLER - WATER-COOLED CENTRIFUGAL OR SCREW (551-1,000 TONS)	TON
CH05	CHILLER - WATER-COOLED CENTRIFUGAL OR SCREW (>1,000 TONS)	TON
CH07	CHILLER - AIR COOLED PACKAGE (<=35 TONS)	TON
CH08	CHILLER - AIR COOLED PACKAGE (36-75 TONS)	TON
CH09	CHILLER - AIR COOLED PACKAGE (76-150 TONS)	TON
CH10	CHILLER - AIR COOLED PACKAGE (>150 TONS)	TON
CH12	CHILLER - SPLIT RECIPROCATING OR SCROLL (<=15 TONS)	TON
CH13	CHILLER - SPLIT RECIPROCATING OR SCROLL (16-35 TONS)	TON
CH14	CHILLER - SPLIT RECIPROCATING OR SCROLL (36-75 TONS)	TON
CH15	CHILLER - SPLIT RECIPROCATING OR SCROLL (76-150 TONS)	TON
CH16	CHILLER - SPLIT RECIPROCATING OR SCROLL (>150 TONS)	TON
CH17	CHILLER - STEAM ABSORPTION (<=100 TON)	TON
CH18	CHILLER - STEAM ABSORPTION (101-350 TON)	TON
CH19	CHILLER - STEAM ABSORPTION (>350 TON)	TON
CH20	DRY COOLER - REFRIGERANT OR GLYCOL	TON
CK01	COMMERCIAL KITCHEN EQUIPMENT ESTIMATE BY SQUARE FOOT	SF
CN01	BRIDGE CRANE, 1 GIRDER, 20' SPAN <= 4 TON	TON
CN02	BRIDGE CRANE, 1 GIRDER, 20' SPAN 5-6 TON	TON
CN03	BRIDGE CRANE, 1 GIRDER, 20' SPAN 7-13 TON	TON
CN04	BRIDGE CRANE, 1 GIRDER, 20' SPAN 14-38 TON	TON
CN05	BRIDGE CRANE, 1 GIRDER, 20' SPAN >38 TON	TON
CN06	BRIDGE CRANE, 1 GIRDER, 30' SPAN <= 4 TON	TON
CN07	BRIDGE CRANE, 1 GIRDER, 30' SPAN 5-6 TON	TON
CN08	BRIDGE CRANE, 1 GIRDER, 30' SPAN 7-13 TON	TON
CN09	BRIDGE CRANE, 1 GIRDER, 30' SPAN 14-38 TON	TON
CN10	BRIDGE CRANE, 1 GIRDER, 30' SPAN >38 TON	TON
CN11	BRIDGE CRANE, 1 GIRDER, 40' SPAN <= 4 TON	TON
CN12	BRIDGE CRANE, 1 GIRDER, 40' SPAN 5-6 TON	TON
CN13	BRIDGE CRANE, 1 GIRDER, 40' SPAN 7-13 TON	TON
CN14	BRIDGE CRANE, 1 GIRDER, 40' SPAN 14-20 TON	TON
CN15	BRIDGE CRANE, 1 GIRDER, 40' SPAN 21-45 TON	TON
CN16	BRIDGE CRANE, 1 GIRDER, 40' SPAN >45 TON	TON
CN17	BRIDGE CRANE, 1 GIRDER, 50' SPAN <= 4 TON	TON

CN18	BRIDGE CRANE, 1 GIRDER, 50' SPAN 4-6 TON	TON
CN19	BRIDGE CRANE, 1 GIRDER, 50' SPAN 7-13 TON	TON
CN20	BRIDGE CRANE, 1 GIRDER, 50' SPAN 14-20 TON	TON
CN21	BRIDGE CRANE, 1 GIRDER, 50' SPAN 21-45 TON	TON
CN22	BRIDGE CRANE, 1 GIRDER, 50' SPAN >45 TON	TON
CN23	BRIDGE CRANE RAIL	LF
CN24	BRIDGE CRANE CONTROLS <13 TON	TON
CN25	BRIDGE CRANE CONTROLS 13-28 TON	TON
CN26	BRIDGE CRANE CONTROLS 29-45 TON	TON
CN27	BRIDGE CRANE CONTROLS >45 TON	TON
CP01	POOL CIRCULATION PUMP - ELECTRIC (<10 HP)	HP
CP02	POOL CIRCULATION PUMP - ELECTRIC (10-15 HP)	HP
CP03	POOL CIRCULATION PUMP - ELECTRIC (16-75 HP)	HP
CP04	POOL CIRCULATION PUMP - ELECTRIC (76-150 HP)	HP
CR01	WALK-IN REFRIGERATOR OR FREEZER STRUCTURE	SF
CR02	REFRIGERATION SYSTEM - WALK-IN, 2 EVAP FANS, 6700 BTUH, CONDENSER	EA
CR03	REFRIGERATION SYSTEM - WALK-IN, 3 EVAP FANS, 10000 BTUH, CONDENSER	EA
CR04	REFRIGERATION SYSTEM - WALK-IN, 4 EVAP FANS, 26500 BTUH, CONDENSER	EA
CR05	ENVIRONMENTAL CHAMBER STRUCTURE	SF
CR06	ENVIRONMENTAL CHAMBER MECHANICAL SYSTEM	SYS
CT01	COOLING TOWER (<=100 TONS)	TON
CT02	COOLING TOWER (101-125 TONS)	TON
CT03	COOLING TOWER (126-200 TONS)	TON
CT04	COOLING TOWER (201-250 TONS)	TON
CT05	COOLING TOWER (251-300 TONS)	TON
CT06	COOLING TOWER (301-550 TONS)	TON
CT07	COOLING TOWER (551-700 TONS)	TON
CT08	COOLING TOWER (>701 TONS)	TON
CT10	CONDENSER - WATER-COOLED (<=50 TON)	TON
CT11	CONDENSER - WATER-COOLED (51-150 TON)	TON
CT12	CONDENSER - WATER-COOLED (>150 TON)	TON
CT13	COOLING WATER TREATMENT SYSTEM (UP TO 3 FLUIDS)	SYS
CW01	CASEWORK - WOOD BASE AND WALL, TOP, STANDARD	LF
CW02	CASEWORK - WOOD BASE AND WALL, TOP, PREMIUM	LF
CW03	KITCHENETTE UNIT WITH CABINETRY AND AMENITIES	EA
CW04	CASEWORK - LABORATORY, INCLUDES REAGENT SHELF AND TOP	SF
DC01	DUST COLLECTION SYSTEM	SYS
DF01	DRINKING FOUNTAIN, DUAL-LEVEL	EA
DK01	DOCK LEVELER	EA
DR01	DOOR AND FRAME, R-IN, NON-RATED	LEAF
DR02	DOOR AND FRAME, R-IN, FIRE-RATED	LEAF
DR03	DOOR - OVERHEAD, R-IN	SF
DR04	DOOR, SLIDING SYSTEM, R-IN	EA

DR05	DOOR AND FRAME, R-EX, SWINGING, ALUMINUM AND GLASS	LEAF
DR06	DOOR AND FRAME, R-EX, SWINGING, STAINLESS STEEL AND GLASS	LEAF
DR07	DOOR AND FRAME, R-EX, SWINGING, SOLID GLASS	LEAF
DR08	DOOR AND FRAME, R-EX, SWINGING, HOLLOW METAL	LEAF
DR09	DOOR AND FRAME, R-EX, SWINGING, HARDWOOD CUSTOM	LEAF
DR10	DOOR AND FRAME, R-EX, SWINGING, WOOD STANDARD	LEAF
DR11	DOOR AND FRAME, R-EX, SWINGING, FRENCH-STYLE, HARDWOOD	LEAF
DR12	DOOR AND STOREFRONT, R-EX, SWINGING, ALUMINUM AND GLASS	LEAF
DR13	DOOR AND FRAME, R-EX, SWINGING, SCREEN, LOCK	LEAF
DR14	DOOR AND FRAME, R-EX, SWINGING, HIGH SECURITY BALLISTIC STEEL, LOCK	LEAF
DR15	DOOR, R-EX, REVOLVING, POWERED, STANDARD	EA
DR16	DOOR, R-EX, REVOLVING, POWERED, PREMIUM	EA
DR17	DOOR, R-EX, SLIDING ENTRANCE SYSTEM, POWERED	EA
DR18	DOOR, R-EX, SLIDING, RESIDENTIAL PATIO, LOCK, SCREEN	EA
DR19	DOOR, R-EX, OVERHEAD ROLLING METAL, LOCK	SF
DR20	DOOR, R-EX, OVERHEAD PANEL OR SECTIONAL, PAINTED, LOCK	SF
DR21	DOOR, R-EX, OVERHEAD ROLLING GRILLE, LOCK	SF
DR22	DOOR, R-EX, SLIDING, POWERED, STEEL HANGAR, LOCK	SF
DR23	DOOR, R-EX, BULKHEAD CELLAR, PAINTED, SHROUDS, LOCK, FOUNDATION PLATES	SF
DR24	DOOR LOCK, COMMERCIAL-GRADE, R-IN	EA
DR25	DOOR LOCK, RESIDENTIAL-GRADE, R-IN	EA
DR26	DOOR PANIC HARDWARE, R-IN	EA
DR27	DOOR LOCK, SECURITY, R-IN	EA
DR28	DOOR OPERATOR, POWER-ASSIST	EA
DR29	DOOR ACCESS CONTROL SYSTEM	EA
DR30	DOOR OPERATOR, OVERHEAD DOOR, COMMERCIAL, PADS	EA
DR31	DOOR OPERATOR, OVERHEAD PANEL DOOR, RESIDENTIAL, PADS	EA
DR32	DOOR OPERATOR, OVERHEAD COIL DOOR, PADS	EA
DR33	LOADING DOCK SEAL	EA
DR34	DOOR LOCK, COMMERCIAL-GRADE, R-EX	EA
DR35	DOOR LOCK, RESIDENTIAL-GRADE, R-EX	EA
DR36	DOOR PANIC HARDWARE, R-EX	EA
DR37	DOOR LOCK, SECURITY, R-EX	EA
EF01	WALL FINISH - APPLIED, STANDARD	SF
EF02	SURFACE FINISH - APPLIED, STANDARD	SF
EF03	STAIR TREAD AND LANDING FINISH	FLR
EF04	DOOR OR WINDOW APPLIED FINISH	EA
EF05	TRIM APPLIED FINISH	SF
EF06	DECK, ELEVATED WOOD	SF
EF07	FLOORING, WOOD STRIP, T&G FIR	SF
EF08	FLOORING, APPLIED FINISH, NEOPRENE TRAFFIC BEARING	SF
EF09	FLOORING, PAVER OVER MEMBRANE	SF
EF10	DECK, ELEVATED WOOD WASH AND STAIN	SF

EF11	FLOORING, APPLIED FINISH, SAND, PAINT OR STAIN	SF
EL01	EXIT SIGN - CENTRAL POWER	EA
EL02	EXIT SIGN - WITH BATTERY BACK-UP	EA
EL03	EXIT SIGN - SELF-ILLUMINATING	EA
EL04	EMERGENCY LIGHT - UNITARY WITH BATTERY BACK-UP	EA
EW01	WALL, R-EX, MASONRY POINTING	SF
EW02	WALL, R-EX, STUCCO OR CONCRETE RESTORE	SF
EW03	WALL, R-EX, SIDING, METAL CORRUGATED, V-BEAM, OR RIBBED	SF
EW04	WALL, R-EX, SIDING, METAL, HORIZONTAL OR VERTICAL	SF
EW05	WALL, R-EX, SIDING, FIBER CEMENT	SF
EW06	WALL, R-EX, SIDING, WOOD BOARD, STANDARD	SF
EW07	WALL, R-EX, SIDING, WOOD BOARD, PREMIUM	SF
EW08	WALL, R-EX, SIDING, T-111 PLYWOOD	SF
EW09	WALL, R-EX, SIDING, VINYL	SF
EW10	WALL, R-EX, SHINGLE, WOOD	SF
EW11	WALL, R-EX, EIFS	SF
EW12	WALL, R-EX, PANEL JOINT RESTORATION	SF
EW13	WALL, R-EX, TILE OR GLASS BLOCK CLEAN, GROUT, AND REPAIR	SF
EW14	WALL, R-EX, TILT-UP OR PRECAST CONCRETE PANELS - RESTORE NATURAL FINISH	SF
EW15	WALL, R-EX, TILT-UP OR PRECAST CONCRETE PANELS - JOINT MAINTENANCE	SF
EW16	WALL, R-EX, MASONRY POINTING, CMU	SF
FA01	FIRE ALARM SYSTEM - DEVICES	SF
FA02	FIRE ALARM PANEL, DIALER, BATTERY, & CHARGER UP TO 50 POINTS	EA
FA03	FIRE ALARM PANEL, DIALER, BATTERY, & CHARGER UP TO 200 POINTS	EA
FA04	FIRE ALARM PANEL, DIALER, BATTERY, & CHARGER UP TO 400 POINTS	EA
FA05	FIRE ALARM PANEL, DIALER, BATTERY, & CHARGER UP TO 700 POINTS	EA
FL01	SPA FILTER, AVG	CF
FL02	POOL FILTER, SAND / DE ALL EXCEPT SPA	CF
FN01	FAN - AXIAL, RETURN (<=3 HP) 9,200 CFM	HP
FN02	FAN - AXIAL, RETURN (4-5 HP) 13,200 CFM	HP
FN03	FAN - AXIAL, RETURN (6-7.5 HP) 16,500 CFM	HP
FN04	FAN - AXIAL, RETURN (7.6-10 HP) 19,500 CFM	HP
FN05	FAN - AXIAL, RETURN (11-15 HP) 27,000 CFM	HP
FN06	FAN - AXIAL, RETURN (16-20 HP) 32,000 CFM	HP
FN07	FAN - AXIAL, RETURN (>20 HP) 38,500 CFM	HP
FN08	FAN - AXIAL, SUPPLY (<=3 HP) 3800 CFM	HP
FN09	FAN - AXIAL, SUPPLY (4-5 HP) 6400 CFM	HP
FN10	FAN - AXIAL, SUPPLY (6-7.5 HP) 10,500 CFM	HP
FN11	FAN - AXIAL, SUPPLY (7.6-10 HP) 15,600 CFM	HP
FN12	FAN - AXIAL, SUPPLY (11-15 HP) 23,000 CFM	HP
FN13	FAN - AXIAL, SUPPLY (16-20 HP) 28,000 CFM	HP
FN14	FAN - AXIAL, SUPPLY (21-25 HP) 35,000 CFM	HP
FN15	FAN - AXIAL, SUPPLY (26-30 HP) 42,000 CFM	HP

FN16	FAN - AXIAL, SUPPLY (31-40 HP) 56,000 CFM	HP
FN17	FAN - AXIAL, SUPPLY (>40 HP) 70,000 CFM	HP
FN18	FAN - CENTRIFUGAL ROOF EXHAUST (10"-18" DIAMETER)	EA
FN19	FAN - CENTRIFUGAL ROOF EXHAUST (20"-22" DIAMETER)	EA
FN20	FAN - CENTRIFUGAL ROOF EXHAUST (25"-30" DIAMETER)	EA
FN21	FAN - INLINE CENTRIFUGAL AIRFOIL, SUPPLY (<=30 HP)	HP
FN22	FAN - INLINE CENTRIFUGAL AIRFOIL, SUPPLY (31-40 HP)	HP
FN23	FAN - INLINE CENTRIFUGAL AIRFOIL, SUPPLY (41-50 HP)	HP
FN24	FAN - INLINE CENTRIFUGAL AIRFOIL, SUPPLY (>50 HP)	HP
FN25	FAN - PROPELLER WITH LOUVER (<=0.5 HP)	HP
FN26	FAN - PROPELLER WITH LOUVER (.6-1 HP)	HP
FN27	FAN - PROPELLER WITH LOUVER (1.1-1.5 HP)	HP
FN28	FAN - PROPELLER WITH LOUVER (1.6-2 HP)	HP
FN29	FAN - PROPELLER WITH LOUVER (3-4 HP)	HP
FN30	FAN - PROPELLER WITH LOUVER (>4 HP)	HP
FN31	FAN - UTILITY SET (<=0.5 HP)	HP
FN32	FAN - UTILITY SET (.6-1.25 HP)	HP
FN33	FAN - UTILITY SET (1.26-4 HP)	HP
FN34	FAN - UTILITY SET (5-12 HP)	HP
FN35	FAN - UTILITY SET (13-17 HP)	HP
FN36	FAN - UTILITY SET (18-27 HP)	HP
FN37	FAN - UTILITY SET (28-42 HP)	HP
FN38	FAN - UTILITY SET (43-62 HP)	HP
FN39	FAN - UTILITY SET (>62 HP)	HP
FN40	FAN - MIXED-FLOW, SHORT STACK, EXHAUST (<=30 HP)	HP
FN41	FAN - MIXED-FLOW, SHORT STACK, EXHAUST (31-40 HP)	HP
FN42	FAN - MIXED-FLOW, SHORT STACK, EXHAUST (41-50 HP)	HP
FN43	FAN - MIXED-FLOW, SHORT STACK, EXHAUST (>50 HP)	HP
FN44	HEAT RECOVERY VENTILATOR, AIR TO AIR (<0.5 HP)	HP
FN45	HEAT RECOVERY VENTILATOR, AIR TO AIR(.6-1.25 HP)	HP
FN46	HEAT RECOVERY VENTILATOR, AIR TO AIR(1.26-4 HP)	HP
FN47	HEAT RECOVERY VENTILATOR, AIR TO AIR(4.1-12 HP)	HP
FN48	HEAT RECOVERY VENTILATOR, AIR TO AIR (12.1-15 HP)	HP
FN49	HEAT RECOVERY VENTILATOR, AIR TO AIR(>15 HP)	HP
FP01	FIRE PUMP - DIESEL, 500 GPM, 4" ID (<=30 HP)	HP
FP02	FIRE PUMP - DIESEL, 500 GPM, 4" ID (31-70 HP)	HP
FP03	FIRE PUMP - DIESEL, 750 GPM, 5" ID (71-100 HP)	HP
FP04	FIRE PUMP - DIESEL, 1000 GPM, 6" ID (101-150 HP)	HP
FP05	FIRE PUMP - DIESEL, 1500 GPM, 6" ID (151-225HP)	HP
FP06	FIRE PUMP - DIESEL, 2000 GPM, 6" ID (226-250HP)	HP
FP07	FIRE PUMP - DIESEL, 2500 GPM, 8" ID (251-350 HP)	HP
FP08	FIRE PUMP - DIESEL, 3000+ GPM, 10" ID (>350 HP)	HP
FP09	FIRE PUMP - ELECTRIC, 250 GPM, 2" ID (<=15 HP)	HP

FP10	FIRE PUMP - ELECTRIC, 500 GPM, 3" ID (16-65 HP)	HP
FP11	FIRE PUMP - ELECTRIC, 750 GPM, 4" ID (66-120 HP)	HP
FP12	FIRE PUMP - ELECTRIC, 1000 GPM, 5" ID (121-150 HP)	HP
FP13	FIRE PUMP - ELECTRIC, 1500 GPM, 6" ID (151-250 HP)	HP
FP14	FIRE PUMP - ELECTRIC, 2000 GPM, 6" ID (251-280 HP)	HP
FP15	FIRE PUMP - ELECTRIC, 2500 GPM, 8" ID (281-350 HP)	HP
FP16	FIRE PUMP - ELECTRIC, 3000+ GPM, 10" ID (>350 HP)	HP
FS01	FIRE SPRINKLER SYSTEM - WET	SF
FS02	FIRE SPRINKLER SYSTEM - DRY	SF
FS03	FOAM DELUGE FIRE EXTINGUISHMENT SYSTEM	SF
FS04	FM200 OR INERGEN FIRE SUPPRESSION	CF
FX01	FIXTURE - LAVATORY, COUNTER	EA
FX02	FIXTURE - LAVATORY, WALL HUNG	EA
FX03	FIXTURE - LAVATORY, GANG	EA
FX04	FIXTURE - SINK, KITCHEN	EA
FX05	FIXTURE - SINK, LABORATORY-USE	EA
FX06	FIXTURE - SINK, SERVICE/LAUNDRY/UTILITY	EA
FX07	FIXTURE - SHOWER, GANG PEDESTAL, STAINLESS STEEL	EA
FX08	FIXTURE - SHOWER VALVE AND HEAD	EA
FX09	FIXTURE - BATHTUB WITH FIXTURES	EA
FX10	FIXTURE - URINAL	EA
FX11	FIXTURE - WATER CLOSET, TANK-TYPE	EA
FX12	FIXTURE - WATER CLOSET, TANKLESS	EA
FX13	FIXTURE - COMBINATION TOILET/SINK, STAINLESS STL, INSTITUTIONAL	EA
FX14	FIXTURE - EMERGENCY SHOWER	EA
FX15	FIXTURE - EMERGENCY EYEWASH	EA
FX16	FIXTURE - EMERGENCY COMBINATION SHOWER/EYEWASH	EA
GH01	GREENHOUSE - POLYCARBONATE PLASTIC	SF
GH02	GREENHOUSE - LAMINATED GLASS	SF
GN01	GENERATOR - DIESEL (<=30 KW)	KW
GN02	GENERATOR - DIESEL (31-100KW)	KW
GN03	GENERATOR - DIESEL (101-200 KW)	KW
GN04	GENERATOR - DIESEL (201-500 KW)	KW
GN05	GENERATOR - DIESEL (>500 KW)	KW
GN06	GENERATOR - NATURAL GAS OR GASOLINE (<=20 KW)	KW
GN07	GENERATOR - NATURAL GAS OR GASOLINE (21-100 KW)	KW
GN08	GENERATOR - NATURAL GAS OR GASOLINE (>100 KW)	KW
GN09	SWITCH - AUTO TRANSFER, 208 OR 240 V (<=30 AMP)	AMP
GN10	SWITCH - AUTO TRANSFER, 208 OR 240 V (31-100 AMP)	AMP
GN11	SWITCH - AUTO TRANSFER, 208 OR 240 V (>100 AMP)	AMP
GN12	SWITCH - AUTO TRANSFER, 480 V (<=30 AMP)	AMP
GN13	SWITCH - AUTO TRANSFER, 480 V (31-60 AMP)	AMP
GN14	SWITCH - AUTO TRANSFER, 480 V (61-100 AMP)	AMP

GN15	SWITCH - AUTO TRANSFER, 480 V (101-400 AMP)	AMP
GN16	SWITCH - AUTO TRANSFER, 480 V (>400 AMP)	AMP
GS01	PERMANENT GRANDSTAND / BLEACHER REPLACEMENT (PER SEAT)	EA
GS02	PORTABLE GRANDSTAND / BLEACHER REPLACEMENT (PER SEAT)	EA
GS03	GRANDSTAND/BLEACHER SEAT REPLACEMENT	EA
HD01	HOOD, FUME	LF
HD02	HOOD, KITCHEN, COMMERCIAL WITH FIRE SUPPRESSION	LF
HE01	Surgical Supply Sterilizer Assembly	EA
HE02	Autoclave	EA
HE03	Solid Medical Waste Incinerator	EA
HE04	Trash Compactor	EA
HE05	Commercial FS Traywasher and Conveyor	EA
HE06	Washer-Commercial Laundry	EA
HE07	Dryer-Commercial Laundry	EA
HU01	CONDENSER - REFRIGERANT, AIR-COOLED (<=10 TON)	TON
HU02	CONDENSER - REFRIGERANT, AIR-COOLED (11-35 TON)	TON
HU03	CONDENSER - REFRIGERANT, AIR-COOLED (36-75 TON)	TON
HU04	CONDENSER - REFRIGERANT, AIR-COOLED (>75 TON)	TON
HU05	CONDENSING UNIT, EVAPORATIVE	TON
HU06	AC COIL AND FAN UNIT, NO HEAT (<=1.5 TON)	TON
HU07	AC COIL AND FAN UNIT, NO HEAT (1.6-2 TON)	TON
HU08	AC COIL AND FAN UNIT, NO HEAT (2.1-3 TON)	TON
HU09	AC COIL AND FAN UNIT, NO HEAT (>3 TON)	TON
HU10	AC COIL AND FAN UNIT, ELECTRIC HEAT (<=5 KW)	KW
HU11	AC COIL AND FAN UNIT, ELECTRIC HEAT (6-7.5 KW)	KW
HU12	AC COIL AND FAN UNIT, ELECTRIC HEAT (7.6-12.5 KW)	KW
HU13	AC COIL AND FAN UNIT, ELECTRIC HEAT (>12.5 KW)	KW
HU14	AC COIL AND FAN UNIT, NATURAL GAS HEAT (<=45 MBH)	MBH
HU15	AC COIL AND FAN UNIT, NATURAL GAS HEAT (46-100 MBH)	MBH
HU16	AC COIL AND FAN UNIT, NATURAL GAS HEAT (>100 MBH)	MBH
HU17	DUCTLESS DX SPLIT SYSTEM (<=1 TON)	TON
HU18	DUCTLESS DX SPLIT SYSTEM (1.1-2 TON)	TON
HU19	DUCTLESS DX SPLIT SYSTEM (>2 TON)	TON
HU20	DUCTLESS DX SPLIT SYSTEM (2 @ .75 TON)	TON
HU21	PTAC, DX/ HP COOL, ELEC HEAT (<=0.5 TON)	TON
HU22	PTAC, DX/ HP COOL, ELEC HEAT (0.5-1.25 TON)	TON
HU23	PTAC, DX/ HP COOL, ELEC HEAT (1.26-2 TON)	TON
HU24	PTAC, DX/ HP COOL, ELEC HEAT (>2 TON)	TON
HU25	UNIT HEATER - INDOOR, GAS, SUSPENDED (<=40 MBH)	MBH
HU26	UNIT HEATER - INDOOR, GAS, SUSPENDED (41-100 MBH)	MBH
HU27	UNIT HEATER - INDOOR, GAS, SUSPENDED (101-140 MBH)	MBH
HU28	UNIT HEATER - INDOOR, GAS, SUSPENDED (141-180 MBH)	MBH
HU29	UNIT HEATER - INDOOR, GAS, SUSPENDED (>180 MBH)	MBH

HU30	PACKAGE R-HVAC UNIT, DX, GAS OR ELECTRIC HEAT, SINGLE-ZONE (<= 5 TON)	TON
HU31	PACKAGE R-HVAC UNIT, DX, GAS OR ELECTRIC HEAT, SINGLE-ZONE (6-9 TON)	TON
HU32	PACKAGE R-HVAC UNIT, DX, GAS OR ELECTRIC HEAT, SINGLE-ZONE (10-35 TON)	TON
HU33	PACKAGE R-HVAC UNIT, DX, GAS OR ELECTRIC HEAT, SINGLE-ZONE (36-55 TON)	TON
HU34	PACKAGE R-HVAC UNIT, DX, GAS OR ELECTRIC HEAT, SINGLE-ZONE (56-70 TON)	TON
HU35	PACKAGE R-HVAC UNIT, DX, GAS OR ELECTRIC HEAT, SINGLE-ZONE (71-85 TON)	TON
HU36	PACKAGE R-HVAC UNIT, DX, GAS OR ELECTRIC HEAT, SINGLE-ZONE (>85 TON)	TON
HU37	PACKAGE R-HVAC UNIT, DX, GAS OR ELECTRIC HEAT, MULTI-ZONE (9-35 TON)	TON
HU38	PACKAGE R-HVAC UNIT, DX, GAS OR ELECTRIC HEAT, MULTI-ZONE (36-55 TON)	TON
HU39	PACKAGE R-HVAC UNIT, DX, GAS OR ELECTRIC HEAT, MULTI-ZONE (56-70 TON)	TON
HU40	PACKAGE R-HVAC UNIT, DX, GAS OR ELECTRIC HEAT, MULTI-ZONE (71-85 TON)	TON
HU41	PACKAGE R-HVAC UNIT, DX, GAS OR ELECTRIC HEAT, MULTI-ZONE (>85 TON)	TON
HU42	FURNACE, OUTDOOR, NATURAL GAS (<=75 MBH)	MBH
HU43	FURNACE, OUTDOOR, NATURAL GAS (76-120 MBH)	MBH
HU44	FURNACE, OUTDOOR, NATURAL GAS (121-225 MBH)	MBH
HU45	FURNACE, OUTDOOR, NATURAL GAS (226-450 MBH)	MBH
HU46	FURNACE, OUTDOOR, NATURAL GAS (>450 MBH)	MBH
HU47	EVAPORATIVE COOLER (<=0.5 HP)	HP
HU48	EVAPORATIVE COOLER (0.6-1 HP)	HP
HU49	EVAPORATIVE COOLER (1.1-2 HP)	HP
HU50	EVAPORATIVE COOLER (2.1-3 HP)	HP
HU51	EVAPORATIVE COOLER (3.1-5 HP)	HP
HU52	UNIT HEATER, ELECTRIC	KW
HU53	UNIT HEATER, STEAM/HYDRONIC STD (TO 250 MBH)	EA
HU54	SPACE HEATER, GAS RADIANT TUBE	LF
HV01	DISTRIBUTION NETWORKS - COURTHOUSE	SF
HV02	DISTRIBUTION NETWORKS - CLASSROOM	SF
HV03	DISTRIBUTION NETWORKS - DATA CENTER	SF
HV04	DISTRIBUTION NETWORKS - DORMITORY	SF
HV05	DISTRIBUTION NETWORKS - FOOD SERVICE FACILITY	SF
HV06	DISTRIBUTION NETWORKS - GYMNASIUM	SF
HV07	DISTRIBUTION NETWORKS - HOTEL	SF
HV08	DISTRIBUTION NETWORKS - JAIL / CORRECTIONS	SF
HV09	DISTRIBUTION NETWORKS - LABORATORY, WET	SF
HV10	DISTRIBUTION NETWORKS - LIBRARY	SF
HV11	DISTRIBUTION NETWORKS - MEDICAL CLINIC	SF
HV12	DISTRIBUTION NETWORKS - HOSPITAL	SF
HV13	DISTRIBUTION NETWORKS - MEDICAL RESIDENCE	SF
HV14	DISTRIBUTION NETWORKS - OFFICE	SF
HV15	DISTRIBUTION NETWORKS - PARKING STRUCTURE	SF
HV16	DISTRIBUTION NETWORKS - RELIGIOUS FACILITY	SF
HV17	DISTRIBUTION NETWORKS - RESIDENCE	SF
HV18	DISTRIBUTION NETWORKS - RETAIL	SF

HV19	DISTRIBUTION NETWORKS - SCHOOL K-12	SF
HV20	DISTRIBUTION NETWORKS - SHOPS / TRADES, DRY LABORATORY	SF
HV21	DISTRIBUTION NETWORKS - STUDENT UNION	SF
HV22	DISTRIBUTION NETWORKS - THEATER	SF
HV23	DISTRIBUTION NETWORKS - WAREHOUSE	SF
HX01	HEAT EXCHANGER - SHELL & TUBE WATER TO WATER (<=85 GPM)	GPM
HX02	HEAT EXCHANGER - SHELL & TUBE WATER TO WATER (86-255 GPM)	GPM
HX03	HEAT EXCHANGER - SHELL & TUBE WATER TO WATER (>255 GPM)	GPM
HX04	HEAT EXCHANGER - SHELL & TUBE STEAM TO WATER (20-85 GPM)	GPM
HX05	HEAT EXCHANGER - SHELL & TUBE STEAM TO WATER (>85 GPM)	GPM
HX06	HEAT EXCHANGER - PLATE FRAME (<=200 GPM)	GPM
HX07	HEAT EXCHANGER - PLATE FRAME (201-600 GPM)	GPM
HX08	HEAT EXCHANGER - PLATE FRAME (>600 GPM)	GPM
HX09	PRESSURE REDUCING VALVE, STEAM SYSTEM (2")	EA
HX10	PRESSURE REDUCING VALVE, STEAM SYSTEM (2.5")	EA
HX11	PRESSURE REDUCING VALVE, STEAM SYSTEM (3")	EA
HX12	PRESSURE REDUCING VALVE, STEAM SYSTEM (4")	EA
IC01	CEILING FINISH - SUSPENDED ACOUSTICAL TILE, STANDARD	SF
IC02	CEILING FINISH - SUSPENDED ACOUSTICAL TILE, PREMIUM	SF
IC03	CEILING FINISH - ATTACHED ACOUSTICAL TILE	SF
IC04	CEILING FINISH - APPLIED PAINT OR STAIN, STANDARD	SF
IC05	CEILING FINISH - APPLIED PAINT OR STAIN, TEXTURED	SF
IC06	CEILING FINISH - METAL OR SPECIALTY TILE	SF
IC07	CEILING FINISH - SUSPENDED ARCHITECTURAL	SF
IF01	FLOORING - CARPET, TILE OR ROLL, STANDARD	SF
IF02	FLOORING - CARPET, TILE OR ROLL, PREMIUM (WOOL, CUSTOM)	SF
IF03	FLOORING - VINYL COMPOSITION TILE, STANDARD	SF
IF04	FLOORING - VINYL SHEET, STANDARD	SF
IF05	FLOORING - VINYL RESILIENT, TILE OR ROLL	SF
IF06	FLOORING - TILE, CERAMIC / STONE / QUARRY STANDARD	SF
IF07	FLOORING - TILE, CERAMIC / STONE / QUARRY PREMIUM	SF
IF08	FLOORING - TILE, CERAMIC / STONE / QUARRY ECONOMY	SF
IF09	FLOORING - TERRAZZO RESURFACE	SF
IF10	FLOORING - HARDWOOD STRIP, STANDARD	SF
IF11	FLOORING - HARDWOOD STRIP, PREMIUM	SF
IF12	FLOORING - LAMINATE PLANK, STANDARD	SF
IF13	FLOORING - LAMINATE PLANK, PREMIUM	SF
IF14	FLOORING - FLUID APPLIED, EPOXY / ACRYLIC / POLYURETHANE	SF
IF15	FLOORING - FLUID APPLIED, PAINT OR CLEAR SEAL	SF
IF16	FLOORING - SLATE	SF
IF17	FLOORING - ATHLETIC, RUBBER, TILE OR ROLL	SF
IF18	FLOORING - ATHLETIC COURT, WOOD	SF
IF19	FLOORING - ATHLETIC TRACK, WOOD	SF

IF20	FLOORING - MED/LAB, TROWELED, POLYACRYLATE AGGREGATE	SF
IF21	FLOORING - MED/LAB, CONDUCTIVE RUBBER, ROLL	SF
IF22	FLOORING - CORK, TILE OR ROLL	SF
IF23	FLOORING - GLASS / MOSAIC TILE	SF
IF24	FLOORING - WOOD STRIP, FIR PORCH	SF
IF25	FLOORING - HARDWOOD, PARQUET	SF
IF26	STAIR TREAD AND LANDING FINISH	FLR
IW01	WALL FINISH - APPLIED, STANDARD	SF
IW02	WALL FINISH - APPLIED, PREMIUM	SF
IW03	WALL FINISH - TILE, CERAMIC / STONE, STANDARD	SF
IW04	WALL FINISH - TILE, CERAMIC / STONE, PREMIUM	SF
IW05	WALL FINISH - TILE, CERAMIC / STONE, ECONOMY	SF
IW06	WALL FINISH - WOOD PANEL, ECONOMY	SF
IW07	WALL FINISH - WOOD PANEL, PREMIUM	SF
IW08	WALL FINISH - WOOD PANEL, STANDARD	SF
IW09	WALL FINISH - WALL COVERING, ROLL	SF
IW10	WALL FINISH - TILE, GLASS MOSAICS	SF
IW11	WALL FINISH - CORK	SF
IW12	WALL FINISH - PANEL, MEDICAL / LABORATORY APPLICATION	SF
IW13	STRUCTURAL INTUMESCENT FIRE PROOFING	SF
IW14	TOILET PARTITION WITH ACCESSORIES	SYS
IW15	URINAL PARTITION WITH ACCESSORIES	EA
IW16	PARTITION, MOVEABLE PANEL, ACOUSTICAL	SF
LE01	RES R-EX BLDG MT DECO OR FLOOD LIGHTING	EA
LE02	COM R-EX BLDG MT DECO LIGHTING (COACH, SCONE, PEND, SOFFIT)	EA
LE03	COM R-EX BLDG MT HI FLOOD LIGHTING (WALLPACK, WALLWASH)	EA
LE04	COM R-EX BOLLARD LIGHTING	EA
LE05	COM R-EX POLE ONLY - TALL (≥ 21 FT, POLE, 4 ARMS)	EA
LE06	COM R-EX POLE ONLY - SHORT (≤ 20 FT, POLE, 2 ARMS)	EA
LE07	COM R-EX POLE ARM FIXTURE STD (LPS, HPS, MH) NO POLE OR ARM	EA
LE08	COM R-EX POLE ARM FIXTURE PREM (LED) NO POLE OR ARM	EA
LI01	LIGHTING SYSTEM, R-IN - COURTHOUSE	SF
LI02	LIGHTING SYSTEM, R-IN - CLASSROOM	SF
LI03	LIGHTING SYSTEM, R-IN - DATA CENTER	SF
LI04	LIGHTING SYSTEM, R-IN - DORMITORY	SF
LI05	LIGHTING SYSTEM, R-IN - FOOD SERVICE FACILITY	SF
LI06	LIGHTING SYSTEM, R-IN - GYMNASIUM	SF
LI07	LIGHTING SYSTEM, R-IN - HOTEL	SF
LI08	LIGHTING SYSTEM, R-IN - JAIL / CORRECTIONS	SF
LI09	LIGHTING SYSTEM, R-IN - LABORATORY, WET	SF
LI10	LIGHTING SYSTEM, R-IN - LIBRARY	SF
LI11	LIGHTING SYSTEM, R-IN - MEDICAL CLINIC	SF
LI12	LIGHTING SYSTEM, R-IN - HOSPITAL	SF

LI13	LIGHTING SYSTEM, R-IN - MEDICAL RESIDENCE	SF
LI14	LIGHTING SYSTEM, R-IN - OFFICE	SF
LI15	LIGHTING SYSTEM, R-IN - PARKING STRUCTURE	SF
LI16	LIGHTING SYSTEM, R-IN - RELIGIOUS FACILITY	SF
LI17	LIGHTING SYSTEM, R-IN - RESIDENCE	SF
LI18	LIGHTING SYSTEM, R-IN - RETAIL	SF
LI19	LIGHTING SYSTEM, R-IN - SCHOOL K-12	SF
LI20	LIGHTING SYSTEM, R-IN - SHOPS / TRADES, DRY LABORATORY	SF
LI21	LIGHTING SYSTEM, R-IN - STUDENT UNION	SF
LI22	LIGHTING SYSTEM, R-IN - THEATER	SF
LI23	LIGHTING SYSTEM, R-IN - WAREHOUSE	SF
LI24	OCCUPANCY SENSING AND TIMER LIGHTING CONTROL	SF
LI25	DAYLIGHT DIMMING LIGHTING CONTROL	SF
LP01	LIGHTNING PROTECTION	SF
MC01	MOTOR CONTROL CENTER VERTICAL SECTION, 600V ($\leq 400A$) W/STARTERS	EA
MC02	MOTOR CONTROL CENTER VERTICAL SECTION, 600V (401-600A) W/STARTERS	EA
MC03	MOTOR CONTROL CENTER VERTICAL SECTION, 600V (601-800A) W/STARTERS	EA
MC04	MOTOR CONTROL CENTER VERTICAL SECTION, 600V ($> 800A$) W/STARTERS	EA
PB01	PANELBOARD, 1 PH, 240V (≤ 100 AMP), INCL. BRK.	AMP
PB02	PANELBOARD, 1 PH, 240V (101-150 AMP), INCL. BRK.	AMP
PB03	PANELBOARD, 1 PH, 240V (151-300 AMP), INCL. BRK.	AMP
PB04	PANELBOARD, 1 PH, 240V (301-500 AMP), INCL. BRK.	AMP
PB05	PANELBOARD, 1 PH, 240V (501-700 AMP), INCL. BRK.	AMP
PB06	PANELBOARD, 3 PH, 480/277V (≤ 150 AMP), INCL. BRK.	AMP
PB07	PANELBOARD, 3 PH, 480/277V (151-300 AMP), INCL. BRK.	AMP
PB08	PANELBOARD, 3 PH, 480/277V (301-500 AMP), INCL. BRK.	AMP
PB09	PANELBOARD, 3 PH, 480/277V (501-700 AMP), INCL. BRK.	AMP
PB10	PANELBOARD, 3 PH, 480/277V (701-900 AMP), INCL. BRK.	AMP
PB11	PANELBOARD, 3 PH, 480/277V (901-1100 AMP), INCL. BRK.	AMP
PB12	PANELBOARD, 3 PH, 480/277V (1101-1300 AMP), INCL. BRK.	AMP
PB13	PANELBOARD, 3 PH, 208/120V (≤ 150 AMP), INCL. BRK.	AMP
PB14	PANELBOARD, 3 PH, 208/120V (151-300 AMP), INCL. BRK.	AMP
PB15	PANELBOARD, 3 PH, 208/120V (301-500 AMP), INCL. BRK.	AMP
PB16	PANELBOARD, 3 PH, 208/120V (501-700 AMP), INCL. BRK.	AMP
PB17	PANELBOARD, 3 PH, 208/120V (701-900 AMP), INCL. BRK.	AMP
PB18	PANELBOARD, 3 PH, 208/120V (901-1100 AMP), INCL. BRK.	AMP
PB19	PANELBOARD, 3 PH, 208/120V (1101-1300 AMP), INCL. BRK.	AMP
PC01	CAPACITOR APFC, 3PH 480V, 6-18 KVAR, INDOOR W/CAB	KVAR
PC02	CAPACITOR APFC, 3PH 480V, 19-27 KVAR, INDOOR W/CAB	KVAR
PC03	CAPACITOR APFC, 3PH 480V, 28-39 KVAR, INDOOR W/CAB	KVAR
PC04	CAPACITOR APFC, 3PH 480V, 40-54 KVAR, INDOOR W/CAB	KVAR
PC05	CAPACITOR APFC, 3PH 480V, 40-54 KVAR, INDOOR W/CAB	KVAR
PC06	CAPACITOR APFC, 3PH 480V, 76-165 KVAR, INDOOR W/CAB	KVAR

PD01	DRAIN PIPING SYSTEM - COURTHOUSE	SF
PD02	DRAIN PIPING SYSTEM - CLASSROOM	SF
PD03	DRAIN PIPING SYSTEM - DATA CENTER	SF
PD04	DRAIN PIPING SYSTEM - DORMITORY	SF
PD05	DRAIN PIPING SYSTEM - FOOD SERVICE FACILITY	SF
PD06	DRAIN PIPING SYSTEM - GYMNASIUM	SF
PD07	DRAIN PIPING SYSTEM - HOTEL	SF
PD08	DRAIN PIPING SYSTEM - JAIL / CORRECTIONS	SF
PD09	DRAIN PIPING SYSTEM - LABORATORY, WET	SF
PD10	DRAIN PIPING SYSTEM - LIBRARY	SF
PD11	DRAIN PIPING SYSTEM - MEDICAL CLINIC	SF
PD12	DRAIN PIPING SYSTEM - HOSPITAL	SF
PD13	DRAIN PIPING SYSTEM - MEDICAL RESIDENCE	SF
PD14	DRAIN PIPING SYSTEM - OFFICE	SF
PD15	DRAIN PIPING SYSTEM - PARKING STRUCTURE	SF
PD16	DRAIN PIPING SYSTEM - RELIGIOUS FACILITY	SF
PD17	DRAIN PIPING SYSTEM - RESIDENCE	SF
PD18	DRAIN PIPING SYSTEM - RETAIL	SF
PD19	DRAIN PIPING SYSTEM - SCHOOL K-12	SF
PD20	DRAIN PIPING SYSTEM - SHOPS / TRADES, DRY LABORATORY	SF
PD21	DRAIN PIPING SYSTEM - STUDENT UNION	SF
PD22	DRAIN PIPING SYSTEM - THEATER	SF
PD23	DRAIN PIPING SYSTEM - WAREHOUSE	SF
PG01	AIR COMPRESSOR - MEDICAL/LABORATORY PCKG (<=15 HP), WITH DRYER	HP
PG02	AIR COMPRESSOR - MEDICAL/LABORATORY PCKG (15-20 HP), WITH DRYER	HP
PG03	AIR COMPRESSOR - MEDICAL/LABORATORY PCKG (21-40 HP), WITH DRYER	HP
PG04	AIR COMPRESSOR - MEDICAL/LABORATORY PCKG (>40 HP), WITH DRYER	HP
PG05	VACUUM PUMP - ROTARY VANE (<=2 HP)	HP
PG06	VACUUM PUMP - ROTARY VANE (2.1-4 HP)	HP
PG07	VACUUM PUMP - ROTARY VANE (4.1-6 HP)	HP
PG08	VACUUM PUMP - ROTARY VANE (6.1-30 HP)	HP
PG09	VACUUM PUMP - ROTARY VANE (31-100 HP)	HP
PG10	VACUUM PUMP - H2O SEAL (<=3 HP)	HP
PG11	VACUUM PUMP - H2O SEAL (4-8 HP)	HP
PG12	VACUUM PUMP - H2O SEAL (9-20 HP)	HP
PG13	VACUUM PUMP - H2O SEAL (21-40 HP)	HP
PG14	MEDICAL GAS CONTROL PANEL	EA
PG15	AIR COMPRESSOR - UTILITY (<=5 HP)	HP
PG16	AIR COMPRESSOR - UTILITY (>5 HP)	HP
PG17	VACUUM PUMP - H2O SEAL (40-60 HP)	HP
PH01	PUMP - ELECTRIC (<=10 HP)	HP
PH02	PUMP - ELECTRIC (11-15 HP)	HP
PH03	PUMP - ELECTRIC (16-20 HP)	HP

PH04	PUMP - ELECTRIC (21-25 HP)	HP
PH05	PUMP - ELECTRIC (26-30 HP)	HP
PH06	PUMP - ELECTRIC (31-40 HP)	HP
PH07	PUMP - ELECTRIC (41-50 HP)	HP
PH08	PUMP - ELECTRIC (51-75 HP)	HP
PH09	PUMP - ELECTRIC (76-100 HP)	HP
PH10	PUMP - ELECTRIC (101-150 HP)	HP
PH11	PUMP - ELECTRIC (151-200 HP)	HP
PH12	PUMP - ELECTRIC (>200 HP)	HP
PH13	CONDENSATE RECEIVER, ELECTRIC, 1 PUMP	HP
PH14	CONDENSATE RECEIVER, ELECTRIC, 2 PUMPS	HP
PH15	CONDENSATE RECEIVER, ELECTRIC, 3 PUMPS	HP
PH16	CONDENSATE RECEIVER, PNEUMATIC (<=30 GPM)	GPM
PH17	CONDENSATE RECEIVER, PNEUMATIC (31-100 GPM)	GPM
PH18	CONDENSATE RECEIVER, PNEUMATIC (>100 GPM)	GPM
PP01	DOMESTIC WATER BOOSTER SYSTEM	HP
PP02	GREYWATER LIFT STATION	HP
PP03	SEWAGE LIFT STATION	HP
PP04	GREYWATER SUMP PUMP -SUBMERSIBLE PUMP (<0.5HP)	EA
PS01	SUPPLY PIPING SYSTEM - COURTHOUSE	SF
PS02	SUPPLY PIPING SYSTEM - CLASSROOM	SF
PS03	SUPPLY PIPING SYSTEM - DATA CENTER	SF
PS04	SUPPLY PIPING SYSTEM - DORMITORY	SF
PS05	SUPPLY PIPING SYSTEM - FOOD SERVICE FACILITY	SF
PS06	SUPPLY PIPING SYSTEM - GYMNASIUM	SF
PS07	SUPPLY PIPING SYSTEM - HOTEL	SF
PS08	SUPPLY PIPING SYSTEM - JAIL / CORRECTIONS	SF
PS09	SUPPLY PIPING SYSTEM - LABORATORY, WET	SF
PS10	SUPPLY PIPING SYSTEM - LIBRARY	SF
PS11	SUPPLY PIPING SYSTEM - MEDICAL CLINIC	SF
PS12	SUPPLY PIPING SYSTEM - HOSPITAL	SF
PS13	SUPPLY PIPING SYSTEM - MEDICAL RESIDENCE	SF
PS14	SUPPLY PIPING SYSTEM - OFFICE	SF
PS15	SUPPLY PIPING SYSTEM - PARKING STRUCTURE	SF
PS16	SUPPLY PIPING SYSTEM - RELIGIOUS FACILITY	SF
PS17	SUPPLY PIPING SYSTEM - RESIDENCE	SF
PS18	SUPPLY PIPING SYSTEM - RETAIL	SF
PS19	SUPPLY PIPING SYSTEM - SCHOOL K-12	SF
PS20	SUPPLY PIPING SYSTEM - SHOPS / TRADES, DRY LABORATORY	SF
PS21	SUPPLY PIPING SYSTEM - STUDENT UNION	SF
PS22	SUPPLY PIPING SYSTEM - THEATER	SF
PS23	SUPPLY PIPING SYSTEM - WAREHOUSE	SF
PS24	OLYMPIC POOL PIPING SYSTEM	CF

PS25	RECREATIONAL POOL PIPING SYSTEM	CF
PS26	RESIDENTIAL POOL PIPING SYSTEM	CF
PS27	SPA PIPING SYSTEM	CF
PV01	PHOTOVOLTAIC POWER SYSTEM (700 to 2800 SF)	SF
PV02	POWER INVERTER, DC TO AC	EA
RH01	HEATING SYSTEM, STEAM OR HYDRONIC	SF
RR01	ROOF - FLUID APPLIED (HYPALON, NEOPRENE)	SF
RR02	ROOF - FLUID APPLIED, TRAFFIC DECK (PVC SPRAYED)	SF
RR03	ROOF - 1-PLY, UNBALLASTED	SF
RR04	ROOF - 1-PLY, BALLASTED	SF
RR05	ROOF - SPRAYED POLY FOAM	SF
RR06	ROOF - BITUMINOUS, 3-PLY, SBS MODIFIED BITUMEN, MOP	SF
RR07	ROOF - BITUMINOUS, 2-PLY, APPLIED MODIFIED BITUMEN, TORCH	SF
RR08	ROOF - BITUMINOUS, 4-PLY, COAL TAR PITCH - R30	SF
RR09	ROOF - PANEL, COPPER, STANDING/WELD SEAM (TERNE-COAT)	SF
RR10	ROOF - PANEL, ALUMINUM OR GALVANIZED, STANDING SEAM	SF
RR11	ROOF - PANEL, ALUMINUM OR GALVANIZED, CORRUGATED	SF
RR12	ROOF - SHINGLE ASPHALT COMPOR-SI, PREMIUM	SF
RR13	ROOF - SHINGLE ASPHALT COMPOR-SI, STANDARD	SF
RR14	ROOF - SHINGLE, CEDAR (MILLED OR SHAKE)	SF
RR15	ROOF - TILE, SLATE OR SIMILAR	SF
RR16	ROOF - TILE, CONCRETE	SF
RR17	ROOF - TILE, METAL	SF
RR18	ROOF - TILE, CLAY, FLAT	SF
RR19	ROOF - TILE, CLAY, MISSION PAN AND CAP OR BARREL	SF
RR20	ROOF GUTTER AND LEADER - ALUMINUM OR GALVANIZED, COATED	LF
RR21	ROOF GUTTER AND LEADER - COPPER, LEAD-COATED	LF
RR22	ROOF GUTTER AND LEADER - COPPER, MILLED-FINISH OR STAINLESS STEEL	LF
RR23	ROOF SKYLIGHT - PLASTIC DOME	SF
RR24	ROOF SKYLIGHT - FIBERGLASS ROOF SANDWICH PANEL	SF
RR26	ROOF SKYLIGHT - GLASS WITH ALUMINUM FRAME	SF
RR27	ROOF - GREEN COVERING OVER MEMBRANE	SF
RR28	ROOF - APPLIED FINISH OVER CONCRETE STRUCTURE	SF
SE01	DISTRIBUTION NETWORK - COURTHOUSE	SF
SE02	DISTRIBUTION NETWORK - CLASSROOM	SF
SE03	DISTRIBUTION NETWORK - DATA CENTER	SF
SE04	DISTRIBUTION NETWORK - DORMITORY	SF
SE05	DISTRIBUTION NETWORK - FOOD SERVICE FACILITY	SF
SE06	DISTRIBUTION NETWORK - GYMNASIUM	SF
SE07	DISTRIBUTION NETWORK - HOTEL	SF
SE08	DISTRIBUTION NETWORK - JAIL / CORRECTIONS	SF
SE09	DISTRIBUTION NETWORK - LABORATORY, WET	SF
SE10	DISTRIBUTION NETWORK - LIBRARY	SF

SE11	DISTRIBUTION NETWORK - MEDICAL CLINIC	SF
SE12	DISTRIBUTION NETWORK - HOSPITAL	SF
SE13	DISTRIBUTION NETWORK - MEDICAL RESIDENCE	SF
SE14	DISTRIBUTION NETWORK - OFFICE	SF
SE15	DISTRIBUTION NETWORK - PARKING STRUCTURE	SF
SE16	DISTRIBUTION NETWORK - RELIGIOUS FACILITY	SF
SE17	DISTRIBUTION NETWORK - RESIDENCE	SF
SE18	DISTRIBUTION NETWORK - RETAIL	SF
SE19	DISTRIBUTION NETWORK - SCHOOL K-12	SF
SE20	DISTRIBUTION NETWORK - SHOPS / TRADES, DRY LABORATORY	SF
SE21	DISTRIBUTION NETWORK - STUDENT UNION	SF
SE22	DISTRIBUTION NETWORK - THEATER	SF
SE23	DISTRIBUTION NETWORK - WAREHOUSE	SF
SF01	SEATING, FIXED, FOLDING, STANDARD	EA
SF02	SEATING, FIXED, FOLDING, PREMIUM	EA
SF03	BLEACHER, TELESOPING, ECON., UP TO 15 TIER, MANUAL	EA
SF04	BLEACHER, TELESOPING, AVE., UP TO 23 TIER, MANUAL	EA
SF05	BLEACHER, TELESOPING, ECON., UP TO 30 TIER, POWER	EA
SG01	MAIN SWITCHBOARD W/BREAKERS (<400 AMP)	AMP
SG02	MAIN SWITCHBOARD W/BREAKERS (401-600 AMP)	AMP
SG03	MAIN SWITCHBOARD W/BREAKERS (601-800 AMP)	AMP
SG04	MAIN SWITCHBOARD W/BREAKERS (801-1,200 AMP)	AMP
SG05	MAIN SWITCHBOARD W/BREAKERS (1,201-1,600 AMP)	AMP
SG06	MAIN SWITCHBOARD W/BREAKERS (1,601-2,500 AMP)	AMP
SG07	MAIN SWITCHBOARD W/BREAKERS (>2,500 AMP)	AMP
SG08	MC SWGR BREAKER - FME Adjustable (<=200 AMP)	AMP
SG09	MC SWGR BREAKER - FME Adjustable (201-400 AMP)	AMP
SG10	MC SWGR BREAKER - FME Adjustable (401-600 AMP)	AMP
SG11	MC SWGR BREAKER - FME Adjustable (601-800 AMP)	AMP
SG12	MC SWGR BREAKER - FME Adjustable (801-1,600 AMP)	AMP
SG13	MC SWGR BREAKER - FME Adjustable (1,601-2,500 AMP)	AMP
SG14	MC SWGR BREAKER - FME Adjustable (2,501-3,200 AMP)	AMP
SG15	MC SWGR BREAKER - FME Adjustable (3,201-4,000 AMP)	AMP
SG16	MC SWGR BREAKER - FME Adjustable (>4,000 AMP)	AMP
SG17	MC SWGR ENCLOSURE VERT STACK SECT (<=800 AMP)	EA
SG18	MC SWGR ENCLOSURE VERT STACK SECT (801-1,600 AMP)	EA
SG19	MC SWGR ENCLOSURE VERT STACK SECT (1,601-2,500 AMP)	EA
SG20	MC SWGR ENCLOSURE VERT STACK SECT (2,501-3,200 AMP)	EA
SG21	MC SWGR ENCLOSURE VERT STACK SECT (3,201-4,000 AMP)	EA
SG22	MC SWGR ENCLOSURE VERT STACK SECT (>4,000 AMP)	EA
SG23	MC SWGR INCOMING PWR CONNECT (CABLE/CONDUIT)	EA
SG24	MC SWGR METERING AND INSTRUMENT SYSTEMS	EA
SG25	SWGR TIEBREAK SELECTOR, FME, MANUAL	EA

SG26	SWGR TIEBREAK SELECTOR, FME, AUTOMATIC	EA
SG27	SWGR STATION BATTERY AND CHARGER SYSTEM	EA
SG28	SWGR SYNCHRONOUS LOAD TRANSFER SYSTEM	EA
SI01	CONCRETE PEDESTRIAN PAVING - JOINT MAINTENANCE	LF
SI02	ASPHALT PEDESTRIAN PAVING - SEALCOAT	SY
SI03	BRICK PAVERS	SF
SI04	SLATE PAVERS	SF
SI05	GRANITE PAVERS	SF
SI06	ASPHALT VEHICULAR PAVING - SEALCOAT AND STRIPE	SY
SI07	CONCRETE VEHICULAR PAVING - JOINT MAINTENANCE	LF
SI08	CONCRETE ROADWAYS, DRIVES, AND PARKING LOTS	SF
SI09	FENCING, PERIMETER SECURITY	LF
SI10	VEHICLE GATE, SLIDING OR SWINGING, MOTORIZED	EA
SI11	VEHICULAR TRAFFIC CONTROL BARRIER ARM AND OPERATOR, MOTORIZED	EA
SI12	FENCE, CHAIN LINK, 6 FT, GATES AT 100 FT	LF
SI13	FENCE, STEEL WIRE, 4 STRAND, 5 FT, GATES AT 100 FT	LF
SI14	SPORTS TURF SYSTEM - SYNTHETIC, INCL. FABRIC AND FILL	SF
SW01	LOAD INTERRUPTER ALLOCATION (5-15 kV, UP TO 600 AMP)	EA
TK01	WATER TANK (<25 GAL)	GL
TK02	WATER TANK (25-54 GAL)	GL
TK03	WATER TANK (55-274 GAL)	GL
TK04	WATER TANK (275-1,649 GAL)	GL
TK05	WATER TANK (1,650-4,000 GAL)	GL
TK06	EXPANSION TANK, STL PT (<20 GAL)	GL
TK07	EXPANSION TANK, STL PT (20-26 GAL)	GL
TK08	EXPANSION TANK, STL PT (27-49 GAL)	GL
TK09	EXPANSION TANK, STL PT (50-450 GAL)	GL
TK10	EXPANSION TANK, GALV (<20 GAL)	GL
TK11	EXPANSION TANK, GALV (20-26 GAL)	GL
TK12	EXPANSION TANK, GALV (27-49 GAL)	GL
TK13	EXPANSION TANK, GALV (50-450 GAL)	GL
TK14	EXPANSION TANK, DIAPHRAGM (<25 GAL)	GL
TK15	EXPANSION TANK, DIAPHRAGM (25-44 GAL)	GL
TK16	EXPANSION TANK, DIAPHRAGM (45-69 GAL)	GL
TK17	EXPANSION TANK, DIAPHRAGM (70-99 GAL)	GL
TK18	EXPANSION TANK, DIAPHRAGM (100-249 GAL)	GL
TK19	EXPANSION TANK, DIAPHRAGM (250-550 GAL)	GL
TK20	EXPANSION TANK, STL PT (<20 GAL)	GL
TK21	EXPANSION TANK, STL PT (20-26 GAL)	GL
TK22	EXPANSION TANK, STL PT (27-49 GAL)	GL
TK23	EXPANSION TANK, STL PT (50-450 GAL)	GL
TK24	EXPANSION TANK, GALV (<20 GAL)	GL
TK25	EXPANSION TANK, GALV (20-26 GAL)	GL

TK26	EXPANSION TANK, GALV (27-49 GAL)	GL
TK27	EXPANSION TANK, GALV (50-450 GAL)	GL
TK28	EXPANSION TANK, DIAPHRAGM (<25 GAL)	GL
TK29	EXPANSION TANK, DIAPHRAGM (25-44 GAL)	GL
TK30	EXPANSION TANK, DIAPHRAGM (45-69 GAL)	GL
TK31	EXPANSION TANK, DIAPHRAGM (70-99 GAL)	GL
TK32	EXPANSION TANK, DIAPHRAGM (100-249 GAL)	GL
TK33	EXPANSION TANK, DIAPHRAGM (250-550 GAL)	GL
TK34	FUEL TANK, UNDER GROUND (<1,550 GAL)	GL
TK35	FUEL TANK, UNDER GROUND (1,550-3,249 GAL)	GL
TK36	FUEL TANK, UNDER GROUND (3,250-6,999 GAL)	GL
TK37	FUEL TANK, UNDER GROUND (7,000-12,499 GAL)	GL
TK38	FUEL TANK, UNDER GROUND (12,500-50,000 GAL)	GL
TK39	FUEL TANK, ABOVE GROUND (<1,250 GAL)	GL
TK40	FUEL TANK, ABOVE GROUND (1,250-2,999 GAL)	GL
TK41	FUEL TANK, ABOVE GROUND (3,000-6,999 GAL)	GL
TK42	FUEL TANK, ABOVE GROUND (7,000-17,499 GAL)	GL
TK43	FUEL TANK, ABOVE GROUND (17,500-35,000 GAL)	GL
TK44	FUEL TANK, UNDER GROUND (<1,550 GAL)	GL
TK45	FUEL TANK, UNDER GROUND (1,550-3,249 GAL)	GL
TK46	FUEL TANK, UNDER GROUND (3,250-6,999 GAL)	GL
TK47	FUEL TANK, UNDER GROUND (7,000-12,499 GAL)	GL
TK48	FUEL TANK, UNDER GROUND (12,500-50,000 GAL)	GL
TK49	FUEL TANK, ABOVE GROUND (<1,250 GAL)	GL
TK50	FUEL TANK, ABOVE GROUND (1,250-2,999 GAL)	GL
TK51	FUEL TANK, ABOVE GROUND (3,000-6,999 GAL)	GL
TK52	FUEL TANK, ABOVE GROUND (7,000-17,499 GAL)	GL
TK53	FUEL TANK, ABOVE GROUND (17,500-35,000 GAL)	GL
TX01	TRANSFORMER - DRY-TYPE, 3PH, 5-15KV PRIMARY (75 KVA)	KVA
TX02	TRANSFORMER - DRY-TYPE, 3PH, 5-15KV PRIMARY (76-112.5 KVA)	KVA
TX03	TRANSFORMER - DRY-TYPE, 3PH, 5-15KV PRIMARY (112.6-150 KVA)	KVA
TX04	TRANSFORMER - DRY-TYPE, 3PH, 5-15KV PRIMARY (151-225 KVA)	KVA
TX05	TRANSFORMER - DRY-TYPE, 3PH, 5-15KV PRIMARY (226-300 KVA)	KVA
TX06	TRANSFORMER - DRY-TYPE, 3PH, 5-15KV PRIMARY (301-500 KVA)	KVA
TX07	TRANSFORMER - DRY-TYPE, 3PH, 5-15KV PRIMARY (501-750 KVA)	KVA
TX08	TRANSFORMER - DRY-TYPE, 3PH, 5-15KV PRIMARY (751-1,000 KVA)	KVA
TX09	TRANSFORMER - DRY-TYPE, 3PH, 5-15KV PRIMARY (1,001-1,500 KVA)	KVA
TX10	TRANSFORMER - DRY-TYPE, 3PH, 5-15KV PRIMARY (1,501-2,000 KVA)	KVA
TX11	TRANSFORMER - DRY-TYPE, 3PH, 5-15KV PRIMARY (>2,000 KVA)	KVA
TX12	TRANSFORMER - OIL-FILLED, 3PH, 5-15KV PRIMARY (75 KVA)	KVA
TX13	TRANSFORMER - OIL-FILLED, 3PH, 5-15KV PRIMARY (76-112.5 KVA)	KVA
TX14	TRANSFORMER - OIL-FILLED, 3PH, 5-15KV PRIMARY (112.6-150 KVA)	KVA
TX15	TRANSFORMER - OIL-FILLED, 3PH, 5-15KV PRIMARY (151-225 KVA)	KVA

TX16	TRANSFORMER - OIL-FILLED, 3PH, 5-15KV PRIMARY (226-300 KVA)	KVA
TX17	TRANSFORMER - OIL-FILLED, 3PH, 5-15KV PRIMARY (301-500 KVA)	KVA
TX18	TRANSFORMER - OIL-FILLED, 3PH, 5-15KV PRIMARY (501-750 KVA)	KVA
TX19	TRANSFORMER - OIL-FILLED, 3PH, 5-15KV PRIMARY (751-1,000 KVA)	KVA
TX20	TRANSFORMER - OIL-FILLED, 3PH, 5-15KV PRIMARY (1,001-1,500 KVA)	KVA
TX21	TRANSFORMER - OIL-FILLED, 3PH, 5-15KV PRIMARY (1,501-2,000 KVA)	KVA
TX22	TRANSFORMER - OIL-FILLED, 3PH, 5-15KV PRIMARY (>2,000 KVA)	KVA
TX23	TRANSFORMER - DRY-TYPE, 3PH, 480V SECONDARY (9 KVA)	KVA
TX24	TRANSFORMER - DRY-TYPE, 3PH, 480V SECONDARY (10-30 KVA)	KVA
TX25	TRANSFORMER - DRY-TYPE, 3PH, 480V SECONDARY (31-50 KVA)	KVA
TX26	TRANSFORMER - DRY-TYPE, 3PH, 480V SECONDARY (51-75 KVA)	KVA
TX27	TRANSFORMER - DRY-TYPE, 3PH, 480V SECONDARY (76-112.5 KVA)	KVA
TX28	TRANSFORMER - DRY-TYPE, 3PH, 480V SECONDARY (112.6-150 KVA)	KVA
TX29	TRANSFORMER - DRY-TYPE, 3PH, 480V SECONDARY (151-225 KVA)	KVA
TX30	TRANSFORMER - DRY-TYPE, 3PH, 480V SECONDARY (226-300 KVA)	KVA
TX31	TRANSFORMER - DRY-TYPE, 3PH, 480V SECONDARY (301-500 KVA)	KVA
TX32	TRANSFORMER - DRY-TYPE, 3PH, 480V SECONDARY (501-750 KVA)	KVA
TX33	TRANSFORMER - DRY-TYPE, 3PH, 480V SECONDARY (>750KVA)	KVA
TX34	TRANSFORMER - DRY-TYPE, 1PH, 480V SECONDARY (3KVA)	KVA
TX35	TRANSFORMER - DRY-TYPE, 1PH, 480V SECONDARY (4-10 KVA)	KVA
TX36	TRANSFORMER - DRY-TYPE, 1PH, 480V SECONDARY (11-25KVA)	KVA
TX37	TRANSFORMER - DRY-TYPE, 1PH, 480V SECONDARY (26-50 KVA)	KVA
TX38	TRANSFORMER - DRY-TYPE, 1 PH, 480V SECONDARY (51-75 KVA)	KVA
TX39	TRANSFORMER - DRY-TYPE, 1 PH, 480V SECONDARY (76-100 KVA)	KVA
TX40	TRANSFORMER - DRY-TYPE, 1 PH, 480V SECONDARY (101-125 KVA)	KVA
TX41	TRANSFORMER - DRY-TYPE, 1 PH, 480V SECONDARY (126-175 KVA)	KVA
TX42	TRANSFORMER - DRY-TYPE, 1 PH, 480V SECONDARY (176-200 KVA)	KVA
TX43	TRANSFORMER - DRY-TYPE, 1 PH, 480V SECONDARY (>200 KVA)	KVA
UP01	UNINTERRUPTIBLE POWER SUPPLY (<=2 KVA)	KVA
UP02	UNINTERRUPTIBLE POWER SUPPLY (3-5 KVA)	KVA
UP03	UNINTERRUPTIBLE POWER SUPPLY (6-40 KVA)	KVA
UP04	UNINTERRUPTIBLE POWER SUPPLY (41-80 KVA)	KVA
UP05	UNINTERRUPTIBLE POWER SUPPLY (>80 KVA)	KVA
VF01	VARIABLE FREQUENCY DRIVE (<=5 HP)	HP
VF02	VARIABLE FREQUENCY DRIVE (6-7.5 HP)	HP
VF03	VARIABLE FREQUENCY DRIVE (7.6-10 HP)	HP
VF04	VARIABLE FREQUENCY DRIVE (11-15 HP)	HP
VF05	VARIABLE FREQUENCY DRIVE (16-20 HP)	HP
VF06	VARIABLE FREQUENCY DRIVE (21-25 HP)	HP
VF07	VARIABLE FREQUENCY DRIVE (26-30 HP)	HP
VF08	VARIABLE FREQUENCY DRIVE (31-40 HP)	HP
VF09	VARIABLE FREQUENCY DRIVE (41-50 HP)	HP
VF10	VARIABLE FREQUENCY DRIVE (51-75 HP)	HP

VF11	VARIABLE FREQUENCY DRIVE (76-100 HP)	HP
VF12	VARIABLE FREQUENCY DRIVE (101-150 HP)	HP
VF13	VARIABLE FREQUENCY DRIVE (>150 HP)	HP
VT01	ELEVATOR MODERNIZATION - TRACTION - LOW RISE 2-8 FLOORS	EA
VT02	ELEVATOR MODERNIZATION - TRACTION - HIGH RISE 9-22 FLOORS	EA
VT03	ELEVATOR MODERNIZATION - HYDRAULIC 2-5 FLOORS	EA
VT04	ELEVATOR MODERNIZATION - TRACTION - HIGH RISE ADD PER FLOOR OVER 9	FLR
VT05	WHEELCHAIR LIFT, VERTICAL, AVERAGE (3 FLOORS MAX)	EA
VT06	ESCALATOR, STAINLESS STEEL, 48 INCH WIDTH, 15 FOOT FLOOR HEIGHT	FLR
VT07	DUMBWAITER	EA
WH01	WATER HEATER - COMMERCIAL, GAS (<=87 MBH INPUT)	MBH
WH02	WATER HEATER - COMMERCIAL, GAS (88-168 MBH INPUT)	MBH
WH03	WATER HEATER - COMMERCIAL, GAS (169-225 MBH INPUT)	MBH
WH04	WATER HEATER - COMMERCIAL, GAS (226-310 MBH INPUT)	MBH
WH05	WATER HEATER - COMMERCIAL, GAS (311-613 MBH INPUT)	MBH
WH06	WATER HEATER - COMMERCIAL, GAS (>613 MBH INPUT)	MBH
WH07	WATER HEATER - RESIDENTIAL, GAS (<=35 GAL)	GL
WH08	WATER HEATER - RESIDENTIAL, GAS (36-45 GAL)	GL
WH09	WATER HEATER - RESIDENTIAL, GAS (46-55 GAL)	GL
WH10	WATER HEATER - RESIDENTIAL, GAS (>55 GAL)	GL
WH11	WATER HEATER - COMMERCIAL, ELECTRIC (<=30 GAL)	GL
WH12	WATER HEATER - COMMERCIAL, ELECTRIC (31-70 GAL)	GL
WH13	WATER HEATER - COMMERCIAL, ELECTRIC (71-90 GAL)	GL
WH14	WATER HEATER - COMMERCIAL, ELECTRIC (91-110 GAL)	GL
WH15	WATER HEATER - COMMERCIAL, ELECTRIC (111-135 GAL)	GL
WH16	WATER HEATER - COMMERCIAL, ELECTRIC (136-175 GAL)	GL
WH17	WATER HEATER - COMMERCIAL, ELECTRIC (176-225 GAL)	GL
WH18	WATER HEATER - COMMERCIAL, ELECTRIC (226-325 GAL)	GL
WH19	WATER HEATER - COMMERCIAL, ELECTRIC (326-550 GAL)	GL
WH20	WATER HEATER - COMMERCIAL, ELECTRIC (>550 GAL)	GL
WH21	WATER HEATER - RESIDENTIAL, ELECTRIC (<=15 GAL)	GL
WH22	WATER HEATER - RESIDENTIAL, ELECTRIC (16-25 GAL)	GL
WH23	WATER HEATER - RESIDENTIAL, ELECTRIC (26-46 GAL)	GL
WH24	WATER HEATER - RESIDENTIAL, ELECTRIC (47-100 GAL)	GL
WH25	WATER HEATER - RESIDENTIAL, ELECTRIC (>100 GAL)	GL
WH26	WATER HEATER - SHELL & TUBE (<=45 GPM)	GPM
WH27	WATER HEATER - SHELL & TUBE (46-93 GPM)	GPM
WH28	WATER HEATER - SHELL & TUBE (94-105 GPM)	GPM
WH29	WATER HEATER - SHELL & TUBE (106-400 GPM)	GPM
WH30	WATER HEATER - SHELL & TUBE (401-675 GPM)	GPM
WH31	WATER HEATER - SHELL & TUBE (>675 GPM)	GPM
WH32	WATER HEATER (ELECTRIC INSTANTANEOUS)	EA
WH33	SOLAR HEAT COLLECTOR SYSTEM (LIQUID) (NO PUMPS)	SF

WH34	WATER HEATER, AIR - WATER HEAT PUMP (TO 188 MBH HW)	MBH
WN01	GLASS, WINDOW, ALUMINUM OR WOOD, STANDARD	SF
WN02	GLASS, WINDOW, ALUMINUM OR WOOD, CUSTOM	SF
WN03	GLASS, CURTAIN WALL, STANDARD	SF
WN04	GLASS, CURTAIN WALL, PREMIUM	SF
WN05	GLASS, STOREFRONT	SF
WN06	GLASS, WINDOW, STEEL - STANDARD	SF
WT01	WATER SOFTENER (41 - 70 GPM)	GPM
WT02	WATER SOFTENER (71 - 120 GPM)	GPM
WT03	WATER SOFTENER (121 - 200 GPM)	GPM
WT04	WATER SOFTENER (>200 GPM)	GPM
WT05	REVERSE OSMOSIS SYSTEM (<=5,000 GPD)	GPD
WT06	REVERSE OSMOSIS SYSTEM (5,001-10,000 GPD)	GPD
WT07	REVERSE OSMOSIS SYSTEM (>10,000 GPD)	GPD
WT08	POOL FILTRATION, TREATMENT, PUMPING, HEATING SYSTEMS	SF
WT09	OLYMPIC POOL WATER TREATMENT SYSTEM	CF
WT10	RECREATIONAL POOL WATER TREATMENT SYSTEM	CF
WT11	RESIDENTIAL POOL WATER TREATMENT SYSTEM	CF