

MASTERSPEC®

TABLE OF CONTENTS

MECHANICAL/ELECTRICAL LIBRARY
Outline Expanded (Basic and Supplemental)

MasterFormat 2004 Version

Issue Date	Sect. No.	SECTION TITLE	SECTION DESCRIPTION
------------	-----------	---------------	---------------------

Copyright 2006 The American Institute of Architects (AIA)

Exclusively published and distributed by Architectural Computer Services, Inc. (ARCOM) for the AIA

DIVISION 01 - GENERAL REQUIREMENTS

11/02	011000	SUMMARY	Summary of the Work, Work phases, products ordered in advance, Owner-furnished products, use of premises, and work restrictions.	
11/02	011200	MULTIPLE CONTRACT SUMMARY	Responsibilities of each contract for the Work, coordination, and temporary facilities and controls.	
11/02	012100	ALLOWANCES	Provisions for allowances.	
11/02	012200	UNIT PRICES	Provisions for unit prices.	
11/02	012300	ALTERNATES	Provisions for alternates.	
11/02	012600	CONTRACT MODIFICATION PROCEDURES	Procedural requirements for changing the Contract.	
11/02	012900	PAYMENT PROCEDURES	Administrative requirements for payment.	
8/04	013100	PROJECT MANAGEMENT AND COORDINATION	Administrative requirements for project meetings and coordination.	
11/02	013200	CONSTRUCTION PROGRESS DOCUMENTATION	Contractor's Construction Schedule, Submittals Schedule, and reports.	
11/02	013233	PHOTOGRAPHIC DOCUMENTATION	Construction photographs and videotapes.	
11/02	013300	SUBMITTAL PROCEDURES	Procedures for submitting Action, Informational, and Delegated-Design Submittals.	
5/02	013591	HISTORIC TREATMENT PROCEDURES	Storage, temporary protection, and procedures.	
11/02	014000	QUALITY REQUIREMENTS	Quality-assurance and -control requirements and special inspections.	
11/05	014200	REFERENCES	Common definitions and terms; and acronyms and trade names of associations, government agencies, and other entities referenced in MASTERSPEC.	
11/02	015000	TEMPORARY FACILITIES AND CONTROLS	Temporary utilities and facilities for support, security, and protection.	
11/02	016000	PRODUCT REQUIREMENTS	Administrative and procedural requirements for product selection and handling, warranties, and product substitutions.	
11/02	017300	EXECUTION	Field engineering, progress cleaning, and general requirements for product installation.	
11/02	017329	CUTTING AND PATCHING	Special procedures.	
2/03	017419	CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL	Salvaging, recycling, and disposing of construction waste.	
11/02	017700	CLOSEOUT PROCEDURES	Administrative and procedural requirements for Contract closeout.	
11/02	017823	OPERATION AND MAINTENANCE DATA	Emergency, operation, and maintenance manuals for products and equipment.	
11/02	017839	PROJECT RECORD DOCUMENTS	Record Drawings, Specifications, and Product Data.	
11/02	017900	DEMONSTRATION AND TRAINING	Administrative and procedural requirements for instructing Owner's personnel.	
U	5/06	018113	SUSTAINABLE DESIGN REQUIREMENTS	General requirements and procedures for LEED prerequisites and credits.
12/05	019113	GENERAL COMMISSIONING REQUIREMENTS	Administrative requirements and procedures for commissioning all systems.	

DIVISION 02 - EXISTING CONDITIONS

5/04	024116	STRUCTURE DEMOLITION	Complete structure removal.
11/02	024119	SELECTIVE STRUCTURE DEMOLITION	Demolition and removal of selected portions of buildings and site elements.

DIVISION 03 - CONCRETE

8/02	033000	CAST-IN-PLACE CONCRETE	General building and structural applications.
8/02	033053	MISCELLANEOUS CAST-IN-PLACE CONCRETE	Limited applications for smaller projects.

DIVISION 05 - METALS

2/02	055000	METAL FABRICATIONS	Iron and steel items (not sheet metal).
------	--------	--------------------	---

DIVISION 06 - WOOD, PLASTICS, AND COMPOSITES

11/03	061000	ROUGH CARPENTRY	Wood framing, furring, grounds, nailers, and blocking.
-------	--------	-----------------	--

N = NEW U = UPDATE R = REVISION

MASTERSPEC®

TABLE OF CONTENTS

MECHANICAL/ELECTRICAL LIBRARY
Outline Expanded (Basic and Supplemental)

MasterFormat 2004 Version

Issue Date	Sect. No.	SECTION TITLE	SECTION DESCRIPTION
------------	-----------	---------------	---------------------

Copyright 2006 The American Institute of Architects (AIA)

Exclusively published and distributed by Architectural Computer Services, Inc. (ARCOM) for the AIA

DIVISION 07 - THERMAL AND MOISTURE PROTECTION

11/05	076200	SHEET METAL FLASHING AND TRIM	Custom-fabricated roof and wall flashings and roof-drainage systems, and manufactured through-wall flashing and reglets.
11/02	077200	ROOF ACCESSORIES	Roof curbs, equipment supports, roof hatches, heat and smoke vents, gravity ventilators, roof supports, and roof walkways.
11/02	078413	PENETRATION FIRESTOPPING	Through-penetration firestop systems.
5/01	079200	JOINT SEALANTS	Elastomeric, nonelastomeric, and preformed sealants.

DIVISION 08 - OPENINGS

2/04	083113	ACCESS DOORS AND FRAMES	Wall, ceiling, and floor units.
8/05	089000	LOUVERS AND VENTS	Fixed and adjustable louvers; wall vents.

DIVISION 09 - FINISHES

2/04	099113	EXTERIOR PAINTING	Exterior painting.
2/04	099123	INTERIOR PAINTING	Interior painting.
11/03	099600	HIGH-PERFORMANCE COATINGS	Specialty coatings for use on exterior and interior substrates.
11/03	099633	HIGH-TEMPERATURE-RESISTANT COATINGS	Coatings for use on steel substrates subject to high temperatures.

DIVISION 10 - SPECIALTIES

5/05	104413	FIRE EXTINGUISHER CABINETS	Fire-protection cabinets and security fire-protection cabinets.
5/05	104416	FIRE EXTINGUISHERS	Portable and wheeled fire extinguishers.

DIVISION 21 - FIRE SUPPRESSION

6/05	210500	COMMON WORK RESULTS FOR FIRE SUPPRESSION	Common piping and equipment, materials, and installations.	
6/05	210513	COMMON MOTOR REQUIREMENTS FOR FIRE SUPPRESSION EQUIPMENT	Universal default values for small and medium, ac motors.	
6/05	210533	HEAT TRACING FOR FIRE-SUPPRESSION PIPING	Electric cables for freeze protection.	
12/04	210548	VIBRATION AND SEISMIC CONTROLS FOR FIRE-SUPPRESSION PIPING AND EQUIPMENT	Vibration isolation devices and seismic restraints.	
3/05	210700	FIRE-SUPPRESSION SYSTEMS INSULATION	Equipment and pipe insulation.	
N	6/06	211100	FACILITY FIRE-SUPPRESSION WATER-SERVICE PIPING	Fire suppression piping and specialties outside the building.
N	6/06	211200	FIRE-SUPPRESSION STANDPIPES	Piping, specialties, valves, hose valves, and hose stations.
N	6/06	211313	WET-PIPE SPRINKLER SYSTEMS	Piping, specialties, valves, and sprinklers for wet-pipe sprinkler systems.
N	6/06	211316	DRY-PIPE SPRINKLER SYSTEMS	Piping, specialties, valves, and sprinklers for dry-pipe and preaction sprinkler systems.
9/02	211339	FOAM-WATER SYSTEMS	Fixed, low-expansion, AFFF systems for flammable-liquid fires.	
9/02	212200	CLEAN-AGENT FIRE EXTINGUISHING SYSTEMS	Substitute for Halon 1301 systems.	
3/01	213113	ELECTRIC-DRIVE, CENTRIFUGAL FIRE PUMPS	End-suction and in-line, centrifugal, split case.	
3/01	213116	DIESEL-DRIVE, CENTRIFUGAL FIRE PUMPS	End-suction, centrifugal, split case.	
3/01	213213	ELECTRIC-DRIVE, VERTICAL-TURBINE FIRE PUMPS	Vertical-turbine pumps, controllers, and accessories.	
3/01	213216	DIESEL-DRIVE, VERTICAL-TURBINE FIRE PUMPS	Vertical-turbine pumps, controllers, and accessories.	

DIVISION 22 - PLUMBING

6/05	220500	COMMON WORK RESULTS FOR PLUMBING	Common piping and equipment, materials, and installations.
6/05	220513	COMMON MOTOR REQUIREMENTS FOR PLUMBING EQUIPMENT	Universal default values for small and medium, ac motors.
3/05	220516	EXPANSION FITTINGS AND LOOPS FOR PLUMBING PIPING	Expansion joints and loops.
3/05	220519	METERS AND GAGES FOR PLUMBING PIPING	Temperature, pressure, and flow.

N = NEW U = UPDATE R = REVISION

MASTERSPEC®

TABLE OF CONTENTS

MECHANICAL/ELECTRICAL LIBRARY
Outline Expanded (Basic and Supplemental)

MasterFormat 2004 Version

Issue Date	Sect. No.	SECTION TITLE	SECTION DESCRIPTION
Copyright 2006 The American Institute of Architects (AIA) Exclusively published and distributed by Architectural Computer Services, Inc. (ARCOM) for the AIA			
9/05	220523	GENERAL-DUTY VALVES FOR PLUMBING PIPING	Gate, globe, check, butterfly, & ball valves common to multiple systems.
6/05	220529	HANGERS AND SUPPORTS FOR PLUMBING PIPING AND EQUIPMENT	Single and multiple hangers, framing systems, and stands and supports.
6/05	220533	HEAT TRACING FOR PLUMBING PIPING	Electric cables for freeze protection and temperature maintenance.
12/04	220548	VIBRATION AND SEISMIC CONTROLS FOR PLUMBING PIPING AND EQUIPMENT	Vibration isolation devices and seismic restraints.
6/05	220553	IDENTIFICATION FOR PLUMBING PIPING AND EQUIPMENT	Labels, stencils, and tags.
3/05	220700	PLUMBING INSULATION	Equipment and pipe insulation.
3/04	221113	FACILITY WATER DISTRIBUTION PIPING	Utility service, domestic, and fire-protection water.
U 6/06	221116	DOMESTIC WATER PIPING	Potable-water distribution within the building.
12/03	221119	DOMESTIC WATER PIPING SPECIALTIES	Specialties, valves, and fittings for domestic water piping.
9/01	221123	DOMESTIC WATER PUMPS	In-line and end-suction pumps.
9/01	221123.13	DOMESTIC-WATER PACKAGED BOOSTER PUMPS	Water-pressure boosters.
6/04	221216	FACILITY ELEVATED, POTABLE- WATER STORAGE TANKS	Above-ground water storage.
6/04	221219	FACILITY GROUND-MOUNTED, POTABLE-WATER STORAGE TANKS	Surface-mounted water storage.
6/02	221223	FACILITY INDOOR POTABLE-WATER STORAGE TANKS	Water storage; compression and diaphragm.
12/01	221313	FACILITY SANITARY SEWERS	Sanitary sewerage and underground structures outside the building.
12/02	221316	SANITARY WASTE AND VENT PIPING	Soil, waste, and vent piping within the building.
6/05	221319	SANITARY WASTE PIPING SPECIALTIES	Floor, trench, and channel drains; interceptors; and piping specialties.
12/01	221323	SANITARY WASTE INTERCEPTORS	Grease, oil, and sediment interceptors for sewerage systems outside the building.
9/01	221329	SANITARY SEWERAGE PUMPS	Effluent pumps; automatic, packaged.
3/04	221343	FACILITY PACKAGED SEWAGE PUMPING STATIONS	Pump, compressor, tank, and controls.
12/02	221353	FACILITY SEPTIC TANKS	Tank, distribution box, and drainage pipe.
12/02	221413	FACILITY STORM DRAINAGE PIPING	Stormwater piping within the building.
6/05	221423	STORM DRAINAGE PIPING SPECIALTIES	Storm drains, roof drains, catch basins, and piping specialties.
9/01	221429	SUMP PUMPS	Simplex and duplex packaged units.
9/04	221513	GENERAL-SERVICE COMPRESSED-AIR PIPING	Nonmedical piping, equipment, and accessories.
3/05	221519	GENERAL-SERVICE PACKAGED AIR COMPRESSORS AND RECEIVERS	Nonmedical air compressors, filters, and dryers.
6/02	223100	DOMESTIC WATER SOFTENERS	Domestic and general use, not treatment.
3/03	223200	DOMESTIC WATER FILTRATION EQUIPMENT	Separators; and bag, cartridge, carbon, sand, and greensand filters.
12/02	223300	ELECTRIC DOMESTIC WATER HEATERS	Household and commercial; tankless, instantaneous, and storage types.
12/02	223400	FUEL-FIRED DOMESTIC WATER HEATERS	Household and commercial; gas and oil fired; instantaneous and storage types.
12/02	223500	DOMESTIC WATER HEAT EXCHANGERS	Steam and hot-water heat exchangers; instantaneous and storage types.
9/03	224000	PLUMBING FIXTURES	Fixtures, carriers, faucets, and trim.
9/03	224300	HEALTHCARE PLUMBING FIXTURES	Plumbing fixtures for healthcare facilities.
12/03	224500	EMERGENCY PLUMBING FIXTURES	Individual and combination emergency eyewash and shower units.
12/03	224600	SECURITY PLUMBING FIXTURES	Detention facility plumbing fixtures.
9/03	224700	DRINKING FOUNTAINS AND WATER COOLERS	Electric water coolers and vitreous-china fountains.
12/04	226113	COMPRESSED-AIR PIPING FOR LABORATORY AND HEALTHCARE FACILITIES	Piping for nonmedical laboratory air, medical air, dental air, instrument air, and medical laboratory air.

N = NEW U = UPDATE R = REVISION

MASTERSPEC®

TABLE OF CONTENTS

MECHANICAL/ELECTRICAL LIBRARY
Outline Expanded (Basic and Supplemental)

MasterFormat 2004 Version

Issue Date	Sect. No.	SECTION TITLE	SECTION DESCRIPTION
------------	-----------	---------------	---------------------

Copyright 2006 The American Institute of Architects (AIA)
Exclusively published and distributed by Architectural Computer Services, Inc. (ARCOM) for the AIA

3/05	226119	COMPRESSED-AIR EQUIPMENT FOR LABORATORY AND HEALTHCARE FACILITIES	Compressors, filters, and dryers.
12/04	226213	VACUUM PIPING FOR LABORATORY AND HEALTHCARE FACILITIES	Piping for laboratory vacuum, medical surgical vacuum, waste anesthetic gas, dental vacuum, oral evacuation, and healthcare laboratory vacuum.
3/05	226219	VACUUM EQUIPMENT FOR LABORATORY AND HEALTHCARE FACILITIES	Vacuum pumps and oral evacuation equipment.
12/04	226313	GAS PIPING FOR LABORATORY AND HEALTHCARE FACILITIES	Piping for CO ₂ , helium, NO ₂ , and O ₂ .
6/05	226600	CHEMICAL-WASTE SYSTEMS FOR LABORATORY AND HEALTHCARE FACILITIES	Single- and double-wall piping and specialties, neutralization tanks, and leak detection.
3/02	226700	PROCESSED WATER SYSTEMS FOR LABORATORY AND HEALTHCARE FACILITIES	Pipe, fittings, and specialties for deionized, distilled, and reverse osmosis water.

DIVISION 23 - HEATING VENTILATING AND AIR CONDITIONING

	9/01	230130.51	HVAC AIR DUCT CLEANING	Cleaning ducts, plenums, and air outlets and inlets.
	6/05	230500	COMMON WORK RESULTS FOR HVAC	Common piping and equipment, materials, and installations.
	6/05	230513	COMMON MOTOR REQUIREMENTS FOR HVAC EQUIPMENT	Universal default values for small and medium, ac motors.
	3/05	230516	EXPANSION FITTINGS AND LOOPS FOR HVAC PIPING	Expansion joints and loops.
	3/05	230519	METERS AND GAGES FOR HVAC PIPING	Temperature, pressure, and flow.
	9/05	230523	GENERAL-DUTY VALVES FOR HVAC PIPING	Gate, globe, check, butterfly, & ball valves common to multiple systems.
	6/05	230529	HANGERS AND SUPPORTS FOR HVAC PIPING AND EQUIPMENT	Single and multiple hangers, framing systems, and stands and supports.
	6/05	230533	HEAT TRACING FOR HVAC PIPING	Electric cables for freeze protection.
	12/04	230548	VIBRATION AND SEISMIC CONTROLS FOR HVAC PIPING AND EQUIPMENT	Vibration isolation devices and seismic restraints.
	6/05	230553	IDENTIFICATION FOR HVAC PIPING AND EQUIPMENT	Labels, stencils, and tags.
	6/01	230593	TESTING, ADJUSTING, AND BALANCING FOR HVAC	HVAC systems.
	3/05	230700	HVAC INSULATION	Duct, equipment, and pipe insulation.
U	6/06	230800	COMMISSIONING OF HVAC	Administrative requirements and procedures for commissioning HVAC systems.
	6/03	230900	INSTRUMENTATION AND CONTROL FOR HVAC	Electric, electronic, pneumatic, and DDC equipment and devices.
	6/03	230993	SEQUENCE OF OPERATIONS FOR HVAC CONTROLS	Control sequences for HVAC systems.
	3/05	231113	FACILITY FUEL-OIL PIPING	Transfer and storage equipment and piping.
	3/05	231123	FACILITY NATURAL-GAS PIPING	Natural gas piping and specialties.
	3/05	231126	FACILITY LIQUEFIED-PETROLEUM GAS PIPING	LP gas piping, specialties, and storage equipment.
	6/04	232113	HYDRONIC PIPING	Hot-, chilled-, and condenser-water piping.
	3/03	232113.33	GROUND-LOOP HEAT-PUMP PIPING	Horizontal and vertical, direct-buried, ground-loop piping.
	6/02	232123	HYDRONIC PUMPS	Base mounted and inline; close coupled and separately coupled.
	6/04	232213	STEAM AND CONDENSATE HEATING PIPING	LP and HP piping and specialties.
	6/02	232223	STEAM CONDENSATE PUMPS	Electric-driven and pressure-powered; single and duplex pumps with receivers.
	6/04	232300	REFRIGERANT PIPING	Piping, specialties, and refrigerant.
	3/04	232500	HVAC WATER TREATMENT	Steam boiler feedwater and hot-, chilled-, and condenser-water treatment.
U	6/06	233113	METAL DUCTS	Rectangular and round, single- and double-wall ducts, including hangers and supports.
U	6/06	233116	NONMETAL DUCTS	Fibrous-glass, PVC, and FRP ducts, hangers, and supports.
U	6/06	233119	HVAC CASINGS	Factory and field fabricated; single and double wall.

N = NEW U = UPDATE R = REVISION

MASTERSPEC[®]

TABLE OF CONTENTS

MECHANICAL/ELECTRICAL LIBRARY
Outline Expanded (Basic and Supplemental)

MasterFormat 2004 Version

Issue Date	Sect. No.	SECTION TITLE	SECTION DESCRIPTION
Copyright 2006 The American Institute of Architects (AIA) Exclusively published and distributed by Architectural Computer Services, Inc. (ARCOM) for the AIA			
U	6/06 233300	AIR DUCT ACCESSORIES	Volume dampers, fire and smoke dampers, vanes, duct silencers, and hardware.
	9/03 233413	AXIAL HVAC FANS	Tubeaxial and vaneaxial fans.
	9/03 233416	CENTRIFUGAL HVAC FANS	BI & FC indoor type; tubular and in-line units.
	9/03 233423	HVAC POWER VENTILATORS	Roof, wall, and ceiling-mounting ventilators.
	9/02 233433	AIR CURTAINS	Fans over entrances with and without heating.
	12/00 233600	AIR TERMINAL UNITS	Constant- and variable-volume units.
	3/06 233713	DIFFUSERS, REGISTERS, AND GRILLES	Round, rectangular, perforated, and linear diffusers; fixed and adjustable registers and grilles.
	9/01 233723	HVAC GRAVITY VENTILATORS	Unpowered ventilators and louver penthouses.
	9/04 233813	COMMERCIAL-KITCHEN HOODS	Type I and Type II, Standard and Listed hoods.
	9/02 234100	PARTICULATE AIR FILTRATION	Disposable, extended surface, roll, activated carbon, HEPA, and electronic.
	9/04 235100	BREECHINGS, CHIMNEYS, AND STACKS	Double-wall and refractory-lined breechings and stacks; fabricated breechings.
	9/04 235113	DRAFT CONTROL DEVICES	Induced-draft fans and barometric dampers.
	3/04 235213	ELECTRIC BOILERS	HW and steam; HP and LP.
	3/04 235216	CONDENSING BOILERS	Packaged condensing boilers for small applications.
	3/04 235223	CAST-IRON BOILERS	HW and steam; gas and oil fired.
	6/05 235233	WATER-TUBE BOILERS	HW and steam; gas and oil fired.
	3/04 235239	FIRE-TUBE BOILERS	HW and steam; gas and oil fired.
	6/04 235313	BOILER FEEDWATER PUMPS	Condensate and vacuum pumps and receivers.
	6/04 235316	DEAERATORS	Spray, packed column, and package tray.
	12/04 235400	FURNACES	Gas-, electric-, and oil-fired furnaces.
	6/04 235513	FUEL-FIRED DUCT HEATERS	Gas- and oil-fired units.
	6/04 235523	GAS-FIRED RADIANT HEATERS	Natural and LP gas units.
	6/04 235533	FUEL-FIRED UNIT HEATERS	Gas- and oil-fired units.
	3/03 235700	HEAT EXCHANGERS FOR HVAC	Steam to water and water to water; shell-and-tube and flat-plate types.
	3/02 236200	PACKAGED COMPRESSOR AND CONDENSER UNITS	Air and water cooled.
	3/02 236313	AIR-COOLED REFRIGERANT CONDENSERS	Remote forced-air, condenser, and fan units.
	12/00 236333	EVAPORATIVE REFRIGERANT CONDENSERS	Blow through and counterflow.
	9/00 236413.13	DIRECT-FIRED ABSORPTION WATER CHILLERS	Natural gas, LP, and oil fired; water cooled; two stage.
U	6/06 236413.16	INDIRECT-FIRED ABSORPTION WATER CHILLERS	Steam and hot-water generated; one and two stage.
U	6/06 236416	CENTRIFUGAL WATER CHILLERS	Hermetic and open; direct and gear drives; water and air cooled.
	3/05 236419	RECIPROCATING WATER CHILLERS	Water and air cooled.
	3/05 236423	SCROLL WATER CHILLERS	Water and air cooled.
U	6/06 236426	ROTARY-SCREW WATER CHILLERS	Water-cooled, single- and multiple-compressor units; air-cooled indoor and outdoor units.
	6/05 236500	COOLING TOWERS	Factory-assembled, open- and closed-circuit, induced- and forced-draft, cross- and counter-flow towers.
U	6/06 237200	AIR-TO-AIR ENERGY RECOVERY EQUIPMENT	Heat exchangers and packaged units.
U	6/06 237313	MODULAR INDOOR CENTRAL-STATION AIR-HANDLING UNITS	Units consisting of fans, coils, dampers, filters, control devices, and accessories.
	12/01 237333	INDOOR INDIRECT-FUEL-FIRED HEATING AND VENTILATING UNITS	Gas- and oil-fired indoor and outdoor units.
	12/01 237339	INDOOR, DIRECT GAS-FIRED HEATING AND VENTILATING UNITS	Gas-fired indoor and outdoor units.
	12/04 237413	PACKAGED, OUTDOOR, CENTRAL-STATION AIR-HANDLING UNITS	Packaged, rooftop HVAC.
	9/01 237433	PACKAGED, OUTDOOR, HEATING AND COOLING MAKEUP AIR-CONDITIONERS	Makeup-air heating and cooling units.

N = NEW U = UPDATE R = REVISION

MASTERSPEC®

TABLE OF CONTENTS

MECHANICAL/ELECTRICAL LIBRARY
Outline Expanded (Basic and Supplemental)

MasterFormat 2004 Version

Issue Date	Sect. No.	SECTION TITLE	SECTION DESCRIPTION
------------	-----------	---------------	---------------------

Copyright 2006 The American Institute of Architects (AIA)
Exclusively published and distributed by Architectural Computer Services, Inc. (ARCOM) for the AIA

U	6/06	238113	PACKAGED TERMINAL AIR-CONDITIONERS	Freestanding or through-the-wall; cooling only; heat pump; cooling plus hot-water heating, electric heating, and gas-fired heating.
	6/05	238119	SELF-CONTAINED AIR-CONDITIONERS	Packaged cooling, heating, filters, and controls; cabinet suitable for exposed installations.
U	6/06	238123	COMPUTER-ROOM AIR-CONDITIONERS	Floor- and ceiling-mounted console; water and air cooled; electric, hot-water, and steam heat.
	6/02	238126	SPLIT-SYSTEM AIR-CONDITIONERS	Air-distribution equipment separate from refrigeration equipment; cabinet suitable for exposed installations.
	3/03	238146	WATER-SOURCE UNITARY HEAT PUMPS	Concealed horizontal and vertical units; vertical-stack, rooftop, exposed-console units; and unit ventilators.
	9/03	238213	VALANCE HEATING AND COOLING UNITS	Electric and hot water radiant heaters and heating and cooling panels.
	12/03	238216	AIR COILS	Water, steam, refrigerant, and electric heat-transfer coils.
	6/03	238219	FAN COIL UNITS	Hot water, steam, and electric heating; chilled or DX cooling.
	6/03	238223	UNIT VENTILATORS	Hot water, steam, and electric heating; chilled or DX cooling.
	9/03	238233	CONVECTORS	Hot water, steam, and electric baseboard and finned-tube radiators and convectors.
	6/05	238239	UNIT HEATERS	Cabinet and propeller unit heaters, and wall and ceiling heaters.
	6/05	238313	RADIANT-HEATING ELECTRIC CABLES	Electric cables for ceilings and floors, snow and ice melting, and freezer-floor frost prevention.
	6/04	238316	RADIANT-HEATING HYDRONIC PIPING	Embedded pipe and fittings.
	6/05	238323	RADIANT-HEATING ELECTRIC PANELS	Factory-fabricated panels.
	12/03	238413	HUMIDIFIERS	Steam and evaporative types.
	12/00	238416	DEHUMIDIFIERS	Heat wheels, heat pipes, and dessicant-type dehumidification equipment.

DIVISION 26 - ELECTRICAL

	3/05	260500	COMMON WORK RESULTS FOR ELECTRICAL	Materials and methods common to multiple electrical systems.
	6/03	260513	MEDIUM-VOLTAGE CABLES	Cable, splices, and terminations.
	3/04	260519	LOW-VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES	Electrical power distribution (600 V and less).
	3/04	260519.13	UNDERCARPET ELECTRICAL POWER CABLES	Power and communication cables.
	3/06	260523	CONTROL-VOLTAGE ELECTRICAL POWER CABLES	UTP, optical fiber, and low-voltage control circuit conductors and cables.
	9/03	260526	GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS	Methods and materials for grounding systems and equipment.
	12/04	260529	HANGERS AND SUPPORTS FOR ELECTRICAL SYSTEMS	Hangers, supports, and concrete bases.
	6/04	260533	RACEWAY AND BOXES FOR ELECTRICAL SYSTEMS	Pull, junction, outlet, and cabinets.
	6/04	260536	CABLE TRAYS FOR ELECTRICAL SYSTEMS	Ladder, trough, solid-bottom, and channel types.
	12/04	260539	UNDERFLOOR RACEWAYS FOR ELECTRICAL SYSTEMS	Ducts, boxes, fittings, and accessories.
	12/03	260543	UNDERGROUND DUCTS AND RACEWAYS FOR ELECTRICAL SYSTEMS	Manholes, handholes, and underground ducts.
	12/04	260548	VIBRATION AND SEISMIC CONTROLS FOR ELECTRICAL SYSTEMS	Vibration isolation devices and seismic restraints.
	9/02	260553	IDENTIFICATION FOR ELECTRICAL SYSTEMS	Labels, markers, tags, ties, tape, bands, and signs.
	6/04	260573	OVERCURRENT PROTECTIVE DEVICE COORDINATION STUDY	Fault-current and protective device coordination studies.
	12/03	260913	ELECTRICAL POWER MONITORING AND CONTROL	Remote and local monitoring, metering, and control of individual circuits.
	9/04	260923	LIGHTING CONTROL DEVICES	Time switches, photoelectric relays, occupancy sensors, and multipole lighting controls.

N = NEW U = UPDATE R = REVISION

MASTERSPEC®

TABLE OF CONTENTS

MECHANICAL/ELECTRICAL LIBRARY
Outline Expanded (Basic and Supplemental)

MasterFormat 2004 Version

Issue Date	Sect. No.	SECTION TITLE	SECTION DESCRIPTION
Copyright 2006 The American Institute of Architects (AIA) Exclusively published and distributed by Architectural Computer Services, Inc. (ARCOM) for the AIA			
12/04	260933	CENTRAL DIMMING CONTROLS	Control network and stations, dimmer cabinets, and dimmers.
12/04	260936	MODULAR DIMMING CONTROLS	Manual modular and integrated, multipreset modular dimming controls.
9/03	260943	NETWORK LIGHTING CONTROLS	Wired, programmable and manual lighting controls.
6/03	261116	SECONDARY UNIT SUBSTATIONS	Indoor and outdoor units; with liquid-filled or dry-type transformers.
6/03	261200	MEDIUM-VOLTAGE TRANSFORMERS	Transformers (2.4 to 35 kV).
12/02	261300	MEDIUM-VOLTAGE SWITCHGEAR	Metal-enclosed interrupter and metal-clad CB type switchgear (up to 34 kV class).
12/02	262100	LOW-VOLTAGE OVERHEAD ELECTRICAL POWER SYSTEMS	Medium and secondary voltage (up to 35 kV).
9/04	262200	LOW-VOLTAGE TRANSFORMERS	General purpose and specialty dry type.
3/03	262300	LOW-VOLTAGE SWITCHGEAR	Metal-enclosed, circuit-breaker type; 1000V and less.
3/03	262313	PARALLELING LOW-VOLTAGE SWITCHGEAR	Low-voltage type, 1000V and less; medium-voltage type, 5 to 15 kV; for multiple generator operation.
12/05	262413	SWITCHBOARDS	Service and distribution switchboards, 600V and less.
12/05	262416	PANELBOARDS	Distribution, branch circuit, and TVSS panel boards and load centers.
6/02	262419	MOTOR-CONTROL CENTERS	Conventional, modular, freestanding (600 V).
9/04	262500	ENCLOSED BUS ASSEMBLIES	Plug in & feeder (600 V or less).
9/04	262600	POWER DISTRIBUTION UNITS	Voltage regulators, static electronic voltage regulators, and power distribution units.
9/02	262713	ELECTRICITY METERING	Energy and demand metering by utility or Owner.
6/04	262726	WIRING DEVICES	Switches, receptacles, lighting-control devices, and plates.
3/06	262813	FUSES	Cartridge type (600 V and less); plug type (125 V and less); fuse adapters; spare-fuse cabinet.
3/06	262816	ENCLOSED SWITCHES AND CIRCUIT BREAKERS	Fusible, nonfusible, receptacle, shunt trip, and molded-case switches; molded-case circuit breakers; enclosures.
6/02	262913	ENCLOSED CONTROLLERS	Manual, magnetic, and solid state.
6/02	262923	VARIABLE-FREQUENCY MOTOR CONTROLLERS	Solid-state, pulse-width modulated.
12/03	263213	ENGINE GENERATORS	Diesel- and gas-engine-driven types.
6/04	263323	CENTRAL BATTERY EQUIPMENT	AC & DC output types.
9/02	263353	STATIC UNINTERRUPTIBLE POWER SUPPLY	Units rated 5 to 750 kVA for systems (600 V and less).
9/02	263533	POWER FACTOR CORRECTION EQUIPMENT	Capacitors for 600 V and less.
12/03	263600	TRANSFER SWITCHES	Automatic, nonautomatic, and bypass/isolation.
12/02	264113	LIGHTNING PROTECTION FOR STRUCTURES	Protection for buildings and site components.
12/02	264200	CATHODIC PROTECTION	Passive corrosion protection for steel and iron pipes and tanks.
9/02	264313	TRANSIENT-VOLTAGE SUPPRESSION FOR LOW-VOLTAGE ELECTRICAL POWER CIRCUITS	TVSS for low-voltage power, control, and communication equipment.
6/03	265100	INTERIOR LIGHTING	Normal and emergency lighting.
3/06	265561	THEATRICAL LIGHTING	Dimmer racks; control console and devices; distribution components; lighting fixtures.
6/03	265600	EXTERIOR LIGHTING	Exterior luminaires including poles and standards.
6/03	265668	EXTERIOR ATHLETIC LIGHTING	Outdoor lighting for sports fields.
DIVISION 27 - COMMUNICATIONS			
3/05	270500	COMMON WORK RESULTS FOR COMMUNICATIONS	Materials and methods common to multiple communication systems.
3/05	271100	COMMUNICATIONS EQUIPMENT ROOM FITTINGS	Telecommunications mounting equipment, service pathways, and grounding.
3/05	271300	COMMUNICATIONS BACKBONE CABLING	Pathways, cables, connecting hardware, and cable identification systems.

N = NEW U = UPDATE R = REVISION

MASTERSPEC[®]

TABLE OF CONTENTS

MECHANICAL/ELECTRICAL LIBRARY
Outline Expanded (Basic and Supplemental)

MasterFormat 2004 Version

Issue Date	Sect. No.	SECTION TITLE	SECTION DESCRIPTION
------------	-----------	---------------	---------------------

Copyright 2006 The American Institute of Architects (AIA)
Exclusively published and distributed by Architectural Computer Services, Inc. (ARCOM) for the AIA

3/05	271500	COMMUNICATIONS HORIZONTAL CABLING	Pathways, cables, MUTOAs, connecting hardware, and identification and administration systems.
3/02	274133	MASTER ANTENNA TELEVISION SYSTEM	MATV with options for off-air antennas, CATV, or broadcast satellite service.
12/05	275116	PUBLIC ADDRESS AND MASS NOTIFICATION SYSTEMS	Equipment, cabling, and raceways.
6/02	275119	SOUND MASKING SYSTEMS	Equipment and accessories for acoustical privacy.
12/05	275123	INTERCOMMUNICATIONS AND PROGRAM SYSTEMS	Manually-switched and microprocessor-switched systems.
12/05	275123.50	EDUCATIONAL INTERCOMMUNICATIONS AND PROGRAM SYSTEMS	Manually and microprocessor-switched systems.
6/02	275223	NURSE CALL/CODE BLUE SYSTEMS	Basic visual and audiovisual patient-nurse communication equipment.
6/01	275313	CLOCK SYSTEMS	Electronic, with master control, analog and digital clocks, and signals.
DIVISION 28 - ELECTRONIC SAFETY AND SECURITY			
3/05	280500	COMMON WORK RESULTS FOR ELECTRONIC SAFETY AND SECURITY	Materials and methods common to multiple electronic safety and security systems.
3/05	280513	CONDUCTORS AND CABLES FOR ELECTRONIC SAFETY AND SECURITY	Cables, connecting hardware, and identification systems.
9/02	281300	ACCESS CONTROL	Computer controlled, with interface to other facility management systems.
3/03	281600	INTRUSION DETECTION	Detection devices, controls, and alarms.
3/03	281643	PERIMETER SECURITY SYSTEMS	Detection devices, controls, and alarms on the site perimeter.
3/02	282300	VIDEO SURVEILLANCE	Cameras, monitors, and control equipment.
9/05	283111	DIGITAL, ADDRESSABLE FIRE-ALARM SYSTEM	Systems with addressable initiating devices and conventional or addressable notification appliances.
9/05	283112	ZONED (DC LOOP) FIRE-ALARM SYSTEM	Small systems for buildings relying on zoned fire-alarm concept.
9/04	283500	REFRIGERANT DETECTION AND ALARM	Monitors, alarms, breathing apparatus, and ventilation equipment interlocks.
9/04	284619	PLC ELECTRONIC DETENTION MONITORING AND CONTROL SYSTEMS	Monitoring and control of doors, gates, and related items for detention facilities.
DIVISION 31 - EARTHWORK			
11/01	311000	SITE CLEARING	Clearing and grubbing, and topsoil removal.
2/02	312000	EARTH MOVING	Excavating, filling, and grading.
8/05	312319	DEWATERING	Construction dewatering and groundwater controls.
DIVISION 32 - EXTERIOR IMPROVEMENTS			
8/05	321216	ASPHALT PAVING	Paving, overlays, and surface treatments.
2/02	321313	CONCRETE PAVING	General applications.
8/02	323113	CHAIN LINK FENCES AND GATES	Standard chain-link fencing systems.
12/05	328400	PLANTING IRRIGATION	Heads, pipes, and controls.
DIVISION 33 - UTILITIES			
6/04	330500	COMMON WORK RESULTS FOR UTILITIES	Basic piping materials and methods.
3/04	332100	WATER SUPPLY WELLS	Drilled and driven wells and well pumps.
12/01	334100	STORM UTILITY DRAINAGE PIPING	Gravity and forced storm piping and underground structures.
3/03	334600	SUBDRAINAGE	Drainage for foundations, underslabs, plaza decks, retaining walls, and landscaped areas.
3/02	336113	UNDERGROUND HYDRONIC ENERGY DISTRIBUTION	Underground piping outside the building.
3/02	336313	UNDERGROUND STEAM AND CONDENSATE DISTRIBUTION PIPING	Underground piping outside the building.

N = NEW U = UPDATE R = REVISION