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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).
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DIVISION 06 - WOOD, PLASTICS, AND COMPOSITES

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

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

N	6/05	210500	COMMON WORK RESULTS FOR FIRE SUPPRESSION	Common piping and equipment, materials, and installations.
N	6/05	210513	COMMON MOTOR REQUIREMENTS FOR FIRE SUPPRESSION EQUIPMENT	Universal default values for small and medium, ac motors.
N	6/05	210533	HEAT TRACING FOR FIRE-SUPPRESSION PIPING	Electric cables for freeze protection.
N	12/04	210548	VIBRATION AND SEISMIC CONTROLS FOR FIRE-SUPPRESSION PIPING AND EQUIPMENT	Vibration isolation devices and seismic restraints.
N	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.
	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.
	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.

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	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.
	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.
	9/01 221329	SANITARY SEWERAGE PUMPS	Effluent pumps; automatic, packaged.
	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.
	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.
	9/03 224700	DRINKING FOUNTAINS AND WATER COOLERS	Electric water coolers and vitreous-china fountains.

DIVISION 23 - HEATING VENTILATING AND AIR CONDITIONING

	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.

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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.
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.
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.

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	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 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.
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.
DIVISION 28 - ELECTRONIC SAFETY AND SECURITY			
	9/04 283500	REFRIGERANT DETECTION AND ALARM	Monitors, alarms, breathing apparatus, and ventilation equipment interlocks.
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			

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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.
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.

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