

MASTERSPEC®

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ELECTRICAL LIBRARY
Outline Expanded (Basic and Supplemental)

MasterFormat 1995 Version

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DIVISION 1 - GENERAL REQUIREMENTS

11/02	01100	SUMMARY	Summary of the Work, Work phases, products ordered in advance, Owner-furnished products, use of premises, and work restrictions.	
11/02	01125	SUMMARY OF MULTIPLE CONTRACTS	Responsibilities of each contract for the Work, coordination, and temporary facilities and controls.	
11/02	01210	ALLOWANCES	Provisions for allowances.	
11/02	01230	ALTERNATES	Provisions for alternates.	
11/02	01250	CONTRACT MODIFICATION PROCEDURES	Procedural requirements for changing the Contract.	
11/02	01270	UNIT PRICES	Provisions for unit prices.	
11/02	01290	PAYMENT PROCEDURES	Administrative requirements for payment.	
8/04	01310	PROJECT MANAGEMENT AND COORDINATION	Administrative requirements for project meetings and coordination.	
11/02	01320	CONSTRUCTION PROGRESS DOCUMENTATION	Contractor's Construction Schedule, Submittals Schedule, and reports.	
11/02	01322	PHOTOGRAPHIC DOCUMENTATION	Construction photographs and videotapes.	
11/02	01330	SUBMITTAL PROCEDURES	Procedures for submitting Action, Informational, and Delegated-Design Submittals.	
5/02	01351	SPECIAL PROCEDURES FOR HISTORIC TREATMENT	Storage, temporary protection, and procedures.	
U	5/06	01352	LEED REQUIREMENTS	General requirements and procedures for LEED prerequisites and credits.
11/02	01400	QUALITY REQUIREMENTS	Quality-assurance and -control requirements and special inspections.	
11/05	01420	REFERENCES	Common definitions and terms; and acronyms and trade names of associations, government agencies, and other entities referenced in MASTERSPEC.	
11/02	01500	TEMPORARY FACILITIES AND CONTROLS	Temporary utilities and facilities for support, security, and protection.	
2/03	01524	CONSTRUCTION WASTE MANAGEMENT	Salvaging, recycling, and disposing of construction waste.	
11/02	01600	PRODUCT REQUIREMENTS	Administrative and procedural requirements for product selection and handling, warranties, and product substitutions.	
11/02	01700	EXECUTION REQUIREMENTS	Field engineering, progress cleaning, and general requirements for product installation.	
11/02	01731	CUTTING AND PATCHING	Special procedures.	
11/02	01732	SELECTIVE DEMOLITION	Demolition and removal of selected portions of buildings and site elements.	
11/02	01770	CLOSEOUT PROCEDURES	Administrative and procedural requirements for Contract closeout.	
11/02	01781	PROJECT RECORD DOCUMENTS	Record Drawings, Specifications, and Product Data.	
11/02	01782	OPERATION AND MAINTENANCE DATA	Emergency, operation, and maintenance manuals for products and equipment.	
12/05	01810	GENERAL COMMISSIONING REQUIREMENTS	Administrative requirements and procedures for commissioning all systems.	
U	6/06	01815	COMMISSIONING OF HVAC	Administrative requirements and procedures for commissioning HVAC systems.
11/02	01820	DEMONSTRATION AND TRAINING	Administrative and procedural requirements for instructing Owner's personnel.	

DIVISION 2 - SITE CONSTRUCTION

5/04	02221	BUILDING DEMOLITION	Complete structure removal.
11/01	02230	SITE CLEARING	Clearing and grubbing, and topsoil removal.
2/02	02300	EARTHWORK	Excavating, filling, and grading.
12/03	02584	UNDERGROUND DUCTS AND UTILITY STRUCTURES	Manholes, handholes, and underground ducts.
8/05	02741	ASPHALT PAVING	Paving, overlays, and surface treatments.
2/02	02751	CEMENT CONCRETE PAVEMENT	General applications.
8/02	02821	CHAIN-LINK FENCES AND GATES	Standard chain-link fencing systems.

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DIVISION 3 - CONCRETE

8/02	03300	CAST-IN-PLACE CONCRETE	General building and structural applications.
8/02	03301	CAST-IN-PLACE CONCRETE (LIMITED APPLICATIONS)	Limited applications for smaller projects.

DIVISION 5 - METALS

2/02	05500	METAL FABRICATIONS	Iron and steel items (not sheet metal).
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DIVISION 6 - WOOD AND PLASTICS

11/03	06100	ROUGH CARPENTRY	Wood framing, furring, grounds, nailers, and blocking.
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DIVISION 7 - THERMAL AND MOISTURE PROTECTION

11/05	07620	SHEET METAL FLASHING AND TRIM	Custom-fabricated roof and wall flashings and roof-drainage systems, and manufactured through-wall flashing and reglets.
11/02	07720	ROOF ACCESSORIES	Roof curbs, equipment supports, roof hatches, heat and smoke vents, gravity ventilators, roof supports, and roof walkways.
11/02	07841	THROUGH-PENETRATION FIRESTOP SYSTEMS	Through-penetration firestop systems.

DIVISION 8 - DOORS AND WINDOWS

2/04	08311	ACCESS DOORS AND FRAMES	Wall, ceiling, and floor units.
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DIVISION 9 - FINISHES

2/04	09911	EXTERIOR PAINTING	Exterior painting.
2/04	09912	INTERIOR PAINTING	Interior painting.
11/03	09960	HIGH-PERFORMANCE COATINGS	Specialty coatings for use on exterior and interior substrates.

DIVISION 13 - SPECIAL CONSTRUCTION

12/02	13100	LIGHTNING PROTECTION	Protection for buildings and site components.
12/02	13110	CATHODIC PROTECTION	Passive protection for steel and iron pipes and tanks.
3/03	13710	PERIMETER SECURITY	Detection devices, controls, and alarms on the site perimeter.
3/03	13720	INTRUSION DETECTION	Detection devices, controls, and alarms.
9/02	13730	SECURITY ACCESS	Computer controlled, with interface to other facility management systems.
3/02	13760	VIDEO SURVEILLANCE	Cameras, monitors, and control equipment.
6/01	13810	CLOCK AND PROGRAM CONTROL	Electronic, with master control, analog and digital clocks, and signals.
9/04	13832	PLC ELECTRONIC DETENTION MONITORING AND CONTROL SYSTEMS	Monitoring and control of doors, gates, and related items for detention facilities.
9/03	13845	LIGHTING CONTROLS	Wired, programmable and manual lighting controls.
9/05	13852	DIGITAL, ADDRESSABLE FIRE-ALARM SYSTEM	Systems with addressable initiating devices and conventional or addressable notification appliances.
9/05	13853	ZONED (DC LOOP) FIRE-ALARM SYSTEM	Small systems for buildings relying on zoned fire-alarm concept.

DIVISION 16 - ELECTRICAL

3/05	16051	COMMON WORK RESULTS FOR ELECTRICAL	Materials and methods common to multiple electrical systems.
3/05	16052	COMMON WORK RESULTS FOR COMMUNICATIONS	Materials and methods common to multiple communication systems.
3/05	16053	COMMON WORK RESULTS FOR ELECTRONIC SAFETY AND SECURITY	Materials and methods common to multiple electronic safety and security systems.
6/04	16055	OVERCURRENT PROTECTIVE DEVICE COORDINATION	Fault-current and protective device coordination studies.
9/03	16060	GROUNDING AND BONDING	Methods and materials for grounding systems and equipment.
12/04	16073	HANGERS AND SUPPORTS FOR ELECTRICAL SYSTEMS	Hangers, supports, and concrete bases.
12/04	16074	VIBRATION AND SEISMIC CONTROLS FOR ELECTRICAL SYSTEMS	Vibration isolation devices and seismic restraints.

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9/02	16075	ELECTRICAL IDENTIFICATION	Labels, markers, tags, ties, tape, bands, and signs.
3/04	16120	CONDUCTORS AND CABLES	Electrical power distribution (600 V and less).
3/04	16122	UNDERCARPET CABLES	Power and communication cables.
3/06	16123	CONTROL-VOLTAGE ELECTRICAL POWER CABLES	UTP, optical fiber, and low-voltage control circuit conductors and cables.
6/03	16124	MEDIUM-VOLTAGE CABLES	Cable, splices, and terminations.
6/04	16130	RACEWAYS AND BOXES	Pull, junction, outlet, and cabinets.
12/04	16138	UNDERFLOOR RACEWAYS FOR ELECTRICAL SYSTEMS	Ducts, boxes, fittings, and accessories.
6/04	16139	CABLE TRAYS	Ladder, trough, solid-bottom, and channel types.
6/04	16140	WIRING DEVICES	Switches, receptacles, lighting-control devices, and plates.
9/04	16145	LIGHTING CONTROL DEVICES	Time switches, photoelectric relays, occupancy sensors, and multipole lighting controls.
9/02	16211	ELECTRICITY METERING	Energy and demand metering by utility or Owner.
12/03	16215	ELECTRICAL POWER MONITORING AND CONTROL	Remote and local monitoring, metering, and control of individual circuits.
12/03	16231	PACKAGED ENGINE GENERATORS	Diesel- and gas-engine-driven types.
9/02	16264	STATIC UNINTERRUPTIBLE POWER SUPPLY	Units rated 5 to 750 kVA for systems (600 V and less).
6/04	16265	CENTRAL BATTERY INVERTERS	AC & DC output types.
6/02	16269	VARIABLE FREQUENCY CONTROLLERS	Solid-state, pulse-width modulated.
6/03	16271	MEDIUM-VOLTAGE TRANSFORMERS	Transformers (2.4 to 35 kV).
9/02	16280	POWER FACTOR CORRECTION CAPACITORS	Capacitors for 600 V and less.
9/02	16289	TRANSIENT VOLTAGE SUPPRESSION	TVSS for low-voltage power, control, and communication equipment.
12/02	16315	OVERHEAD ELECTRICAL DISTRIBUTION	Medium and secondary voltage (up to 35 kV).
12/02	16341	MEDIUM-VOLTAGE SWITCHGEAR	Metal-enclosed interrupter and metal-clad CB type switchgear (up to 34 kV class).
6/03	16361	SECONDARY UNIT SUBSTATIONS	Indoor and outdoor units; with liquid-filled or dry-type transformers.
3/06	16410	ENCLOSED SWITCHES AND CIRCUIT BREAKERS	Fusible, nonfusible, receptacle, shunt trip, and molded-case switches; molded-case circuit breakers; enclosures.
12/03	16415	TRANSFER SWITCHES	Automatic, nonautomatic, and bypass/isolation.
6/02	16420	ENCLOSED CONTROLLERS	Manual, magnetic, and solid state.
3/03	16430	SWITCHGEAR	Metal-enclosed, circuit-breaker type; 1000V and less.
3/03	16435	PARALLELING SWITCHGEAR	Low-voltage type, 1000V and less; medium-voltage type, 5 to 15 kV; for multiple generator operation.
12/05	16441	SWITCHBOARDS	Service and distribution switchboards, 600V and less.
12/05	16442	PANELBOARDS	Distribution, branch circuit, and TVSS panel boards and load centers.
6/02	16443	MOTOR-CONTROL CENTERS	Conventional, modular, freestanding (600 V).
9/04	16450	ENCLOSED BUS ASSEMBLIES	Plug in & feeder (600 V or less).
9/04	16461	LOW-VOLTAGE TRANSFORMERS	General purpose and specialty dry type.
9/04	16470	POWER DISTRIBUTION UNITS	Voltage regulators, static electronic voltage regulators, and power distribution units.
3/06	16491	FUSES	Cartridge type (600 V and less); plug type (125 V and less); fuse adapters; spare-fuse cabinet.
6/03	16511	INTERIOR LIGHTING	Normal and emergency lighting.
6/03	16521	EXTERIOR LIGHTING	Exterior luminaires including poles and standards.
6/03	16526	SPORTS LIGHTING	Outdoor lighting for sports fields.
3/06	16555	STAGE LIGHTING	Dimmer racks; control console and devices; distribution components; lighting fixtures.
12/04	16571	CENTRAL DIMMING CONTROLS	Control network and stations, dimmer cabinets, and dimmers.

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12/04	16572	MODULAR DIMMING CONTROLS	Manual modular and integrated, multipreset modular dimming controls.
3/05	16714	COMMUNICATIONS EQUIPMENT ROOM FITTINGS	Telecommunications mounting equipment, service pathways, and grounding.
3/05	16716	COMMUNICATIONS BACKBONE CABLING	Pathways, cables, connecting hardware, and cable identification systems.
3/05	16717	COMMUNICATIONS HORIZONTAL CABLING	Pathways, cables, MUTOAs, connecting hardware, and identification and administration systems.
3/05	16718	CONDUCTORS AND CABLES FOR ELECTRONIC SAFETY AND SECURITY	Cables, connecting hardware, and identification systems.
12/05	16722	INTERCOMMUNICATIONS AND PROGRAM SYSTEMS	Manually-switched and microprocessor-switched systems.
12/05	16723	EDUCATIONAL INTERCOMMUNICATIONS AND PROGRAM SYSTEMS	Manually and microprocessor-switched systems.
6/02	16725	NURSE CALL	Basic visual and audiovisual patient-nurse communication equipment.
12/05	16726	PUBLIC ADDRESS AND MASS NOTIFICATION SYSTEMS	Equipment, cabling, and raceways.
6/02	16727	SOUND-MASKING EQUIPMENT	Equipment and accessories for acoustical privacy.
3/02	16785	MASTER ANTENNA TELEVISION SYSTEM	MATV with options for off-air antennas, CATV, or broadcast satellite service.

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