

# MASTERSPEC®

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STRUCTURAL/CIVIL/LANDSCAPE LIBRARY  
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### DIVISION 01 - GENERAL REQUIREMENTS

	3/03 010000	GENERAL REQUIREMENTS	Evaluations for all Division 01 Sections.
R	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.
R	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.
R	11/02 015000	TEMPORARY FACILITIES AND CONTROLS	Temporary utilities and facilities for support, security, and protection.
	11/01 015639	TEMPORARY TREE AND PLANT PROTECTION	Extensive work.
	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.
R	11/02 017329	CUTTING AND PATCHING	Special procedures.
R	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.
R	11/02 024119	SELECTIVE STRUCTURE DEMOLITION	Demolition and removal of selected portions of buildings and site elements.

### DIVISION 03 - CONCRETE

	2/04 030130	MAINTENANCE OF CAST-IN-PLACE CONCRETE	Concrete patching, repair, reinforcing, sealing, and crack injection.
R	8/02 033000	CAST-IN-PLACE CONCRETE	General building and structural applications.
R	8/02 033053	MISCELLANEOUS CAST-IN-PLACE CONCRETE	Limited applications for smaller projects.

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R	8/02 033300	ARCHITECTURAL CONCRETE	Specially formed, placed, and finished architectural concrete.
R	11/03 033713	SHOTCRETE	Pneumatically applied concrete, dry- or wet-mix.
R	11/02 033816	UNBONDED POST-TENSIONED CONCRETE	Post-tensioning reinforcement, encapsulated and non-encapsulated.
R	2/05 034100	PRECAST STRUCTURAL CONCRETE	Conventional precast structural concrete units.
R	5/04 034500	PRECAST ARCHITECTURAL CONCRETE	Precast concrete cladding units, insulated units, and masonry-faced units.
R	8/02 034713	TILT-UP CONCRETE	Wall panels and insulated sandwich panels.
	5/01 034900	GLASS-FIBER-REINFORCED CONCRETE (GFRC)	Lightweight facing members.
	2/03 035113	CEMENTITIOUS WOOD FIBER DECKS	Monolithic, composite, and insulated composite units.
	5/03 035216	LIGHTWEIGHT INSULATING CONCRETE	Mineral-aggregate and foam types.
	5/02 035300	CONCRETE TOPPING	High-strength special-aggregate concrete floor toppings.

### DIVISION 04 - MASONRY

	8/05 040100	MAINTENANCE OF MASONRY	Evaluations for Sections 040120 and 040140.
	8/05 040120	MAINTENANCE OF UNIT MASONRY	Historic and nonhistoric applications for brick and terra cotta.
	8/05 040140	MAINTENANCE OF STONE ASSEMBLIES	Historic and nonhistoric applications for stone.
	8/02 042000	UNIT MASONRY	General applications, walls, partitions.
R	8/03 042300	GLASS UNIT MASONRY	Glass block installed with mortar and glass-block grid systems.
	2/04 044200	EXTERIOR STONE CLADDING	Exterior stone panels.
	11/04 044300	STONE MASONRY	Stone veneer laid in mortar.
	11/02 047200	CAST STONE MASONRY	Architectural features, facing, trim, and site accessories.

### DIVISION 05 - METALS

R	2/01 051200	STRUCTURAL STEEL FRAMING	Framing systems.
R	5/03 052100	STEEL JOIST FRAMING	Standard SJI units.
R	5/03 053100	STEEL DECKING	Roof, floor, and composite types.
R	8/03 054000	COLD-FORMED METAL FRAMING	Load-bearing and exterior non-load-bearing wall studs; floor, ceiling, and roof joists; rafters and roof trusses.
R	2/02 055000	METAL FABRICATIONS	Iron and steel items (not sheet metal).
R	2/02 055100	METAL STAIRS	Steel; with pan, plate, and grating treads.
R	2/02 055213	PIPE AND TUBE RAILINGS	Railings fabricated from aluminum, stainless-steel, and steel pipe and tubing.
R	5/02 055300	METAL GRATINGS	Metal and glass-fiber-reinforced plastic gratings.
	5/02 057000	DECORATIVE METAL	Custom fabrications from nonferrous and ferrous metals.
U	5/06 057113	FABRICATED METAL SPIRAL STAIRS	Steel and aluminum units with center column and radiating treads.
	2/02 057300	DECORATIVE METAL RAILINGS	Ornamental metal railings assembled from either standard or custom components and shapes. Also included are glass- and plastic-supported railings, and illuminated railings.
R	2/03 057500	DECORATIVE FORMED METAL	Custom sheet metal fabrications; no flashing.

### DIVISION 06 - WOOD, PLASTICS, AND COMPOSITES

R	11/03 061000	ROUGH CARPENTRY	Wood framing, furring, grounds, nailers, and blocking.
	2/06 061063	EXTERIOR ROUGH CARPENTRY	Elevated decks and other exterior wood construction.
U	5/06 061323	HEAVY TIMBER CONSTRUCTION	Solid timber framing.
U	5/06 061500	WOOD DECKING	Solid and laminated T & G decking.
R	11/03 061600	SHEATHING	Roof and wall sheathing (including gypsum sheathing); subflooring, underlayment, and weather-resistive barriers.

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R	11/03	061753	SHOP-FABRICATED WOOD TRUSSES	Metal-plate-connected members.
U	5/06	061800	GLUED-LAMINATED CONSTRUCTION	Glued-laminated structural framing.
<b>DIVISION 07 - THERMAL AND MOISTURE PROTECTION</b>				
R	11/04	071113	BITUMINOUS DAMPPROOFING	Hot- and cold-applied dampproofing.
	5/04	071326	SELF-ADHERING SHEET WATERPROOFING	Self-adhering modified bituminous and adhesive-coated HDPE sheet; drainage panels.
	5/04	071353	ELASTOMERIC SHEET WATERPROOFING	Butyl and EPDM sheet; drainage panels.
	5/04	071354	THERMOPLASTIC SHEET WATERPROOFING	PVC sheet; drainage panels.
	11/05	071413	HOT FLUID-APPLIED RUBBERIZED ASPHALT WATERPROOFING	Hot, rubberized-asphalt waterproofing for plaza deck and below-grade walls.
	8/05	071416	COLD FLUID-APPLIED WATERPROOFING	Polyurethane, polyester, and latex-rubber types.
	5/02	071600	CEMENTITIOUS AND REACTIVE WATERPROOFING	Evaluations for Sections 071613, 071616, and 071619.
	5/02	071613	POLYMER MODIFIED CEMENT WATERPROOFING	Positive- and negative-side cementitious formulations.
	5/02	071616	CRYSTALLINE WATERPROOFING	Crystalline formulations.
	5/02	071619	METAL OXIDE WATERPROOFING	Iron-oxide and cement formulations.
	8/02	071700	BENTONITE WATERPROOFING	Colloidal clay systems.
	11/02	071900	WATER REPELLENTS	Clear and pigmented penetrating types and film-forming types.
	5/04	078100	APPLIED FIREPROOFING	Concealed and exposed cementitious and sprayed fiber; exposed intumescent mastic.
	2/02	078200	BOARD FIREPROOFING	Mineral-fiber and calcium silicate boards.
	11/02	078413	PENETRATION FIRESTOPPING	Through-penetration firestop systems.
	11/02	078446	FIRE-RESISTIVE JOINT SYSTEMS	For floor-to-floor, wall-to-wall, floor-to-wall, head-of-wall, and perimeter-floor-to-curtain-wall joints.
R	5/01	079200	JOINT SEALANTS	Elastomeric, nonelastomeric, and preformed sealants.
	2/04	079500	EXPANSION CONTROL	For building interiors and exteriors and open-air structures.
<b>DIVISION 09 - FINISHES</b>				
R	11/04	096340	STONE FLOORING	Exterior and interior stone traffic surfaces.
	2/04	099100	PAINTING	Evaluations for Sections 099113 and 099123.
	2/04	099113	EXTERIOR PAINTING	Exterior painting.
R	2/04	099123	INTERIOR PAINTING	Interior painting.
R	2/04	099300	STAINING AND TRANSPARENT FINISHING	For interior and exterior wood.
R	11/03	099600	HIGH-PERFORMANCE COATINGS	Specialty coatings for use on exterior and interior substrates.
R	11/03	099633	HIGH-TEMPERATURE-RESISTANT COATINGS	Coatings for use on steel substrates subject to high temperatures.
<b>DIVISION 10 - SPECIALTIES</b>				
	11/04	101400	SIGNAGE	Exterior and interior signs, letters, and plaques.
	11/04	101426	POST AND PANEL/PYLON SIGNAGE	Freestanding exterior aluminum or fiberglass panel signs.
	2/04	107313	AWNINGS	Fixed and retractable awnings.
	2/06	107500	FLAGPOLES	Aluminum, bronze, stainless-steel, steel, and fiberglass flagpoles.
	11/03	108316	BANNERS	Ornamental fabrics with applied graphics for interior and exterior use.
<b>DIVISION 11 - EQUIPMENT</b>				
	6/05	110513	COMMON MOTOR REQUIREMENTS FOR EQUIPMENT	Universal default values for small and medium, ac motors.
R	8/03	116800	PLAY FIELD EQUIPMENT AND STRUCTURES	Public playground equipment.
<b>DIVISION 12 - FURNISHINGS</b>				
	2/03	129200	INTERIOR PLANTERS AND ARTIFICIAL PLANTS	Plants, trees, and vines for interior spaces.

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2/04 129300 SITE FURNISHINGS

Seating, tables, bicycle racks and lockers, trash and ash receptacles, planters, and bollards for outdoor locations.

### DIVISION 13 - SPECIAL CONSTRUCTION

8/02 133419 METAL BUILDING SYSTEMS

Systems consisting of structural framing, roofing and siding panels, and standard components.

### DIVISION 22 - PLUMBING

3/04 221113 FACILITY WATER DISTRIBUTION PIPING

Utility service, domestic, and fire-protection water.

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.

12/01 221313 FACILITY SANITARY SEWERS

Sanitary sewerage and underground structures outside the building.

12/01 221323 SANITARY WASTE INTERCEPTORS

Grease, oil, and sediment interceptors for sewerage systems outside the building.

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.

### DIVISION 23 - HEATING VENTILATING AND AIR CONDITIONING

3/03 232113.33 GROUND-LOOP HEAT-PUMP PIPING

Horizontal and vertical, direct-buried, ground-loop piping.

### DIVISION 26 - ELECTRICAL

12/03 260543 UNDERGROUND DUCTS AND RACEWAYS FOR ELECTRICAL SYSTEMS

Manholes, handholes, and underground ducts.

R 6/03 265600 EXTERIOR LIGHTING

Exterior luminaires including poles and standards.

### 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.

5/02 313116 TERMITE CONTROL

Control by treatment of soil with termiticides, installation of bait stations to dispense termiticides, and installation of permanent metal mesh barriers.

8/05 315000 EXCAVATION SUPPORT AND PROTECTION

Soldier piles and lagging, sheet piling, and tiebacks.

8/01 316200 DRIVEN PILES

Evaluations for Sections 316213, 316216, 316219, and 316223.

8/01 316213 CONCRETE PILES

Solid and hollow, prestressed, precast concrete piles.

8/01 316216 STEEL PILES

Steel H-section piles and protective coatings.

8/01 316219 TIMBER PILES

Preservative-treated round timber piles.

8/01 316223 COMPOSITE PILES

Concrete-filled steel shell and steel pipe piles.

8/05 316329 DRILLED CONCRETE PIERS AND SHAFTS

Dry-installed and slurry-displacement-installed types.

### DIVISION 32 - EXTERIOR IMPROVEMENTS

8/05 321216 ASPHALT PAVING

Paving, overlays, and surface treatments.

2/02 321313 CONCRETE PAVING

General applications.

8/02 321316 DECORATIVE CONCRETE PAVING

Surface-imprinted, stamped, stencil-patterned, or stained finish concrete pavement.

5/02 321373 CONCRETE PAVING JOINT SEALANTS

Sealants for concrete and asphalt pavement joints.

8/03 321400 UNIT PAVING

Brick, asphalt, concrete, and rough stone pavers.

R 8/04 321443 POROUS UNIT PAVING

Concrete, grid-type and interlocking type with openings between units.

8/03 321816.13 PLAYGROUND PROTECTIVE SURFACING

Impact-attenuating, protective surface systems designed for use under public playground equipment.

8/02 323113 CHAIN LINK FENCES AND GATES

Standard chain-link fencing systems.

8/02 323113.53 HIGH-SECURITY CHAIN LINK FENCES AND GATES

High-security chain-link fencing systems.

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8/05	323119	DECORATIVE METAL FENCES AND GATES	Manufactured and custom-designed types.
8/05	323223	SEGMENTAL RETAINING WALLS	Dry-laid concrete masonry unit walls.
12/05	328400	PLANTING IRRIGATION	Heads, pipes, and controls.
2/06	329200	TURF AND GRASSES	Seeded, sodded, plugged, and sprigged turf and meadows; planting soils; pesticides; erosion-control materials; turf renovation; and grass paving.
2/06	329300	PLANTS	Plants, planting soils, pesticides, tree-stabilization materials, edgings, and tree grates.

### 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.
11/02	334713	POND AND RESERVOIR LINERS	Geomembrane liners and covers.

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